
ADNI GO AND 2 CSF REPORT

$A\beta_{1-42}$, $t - Tau$ AND $p - Tau_{181}$

2014-06-03

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Preface

The following data report includes $A\beta_{1-42}$, t-tau and p-tau₁₈₁ analysis results, performed at the UPenn Biomarker Research Laboratory between April 8 and May 14, 2014, measured in 428 CSF samples collected at the baseline visit (N=275), and 2 and 2.5 year visits (N=153). Included in this report are the following:

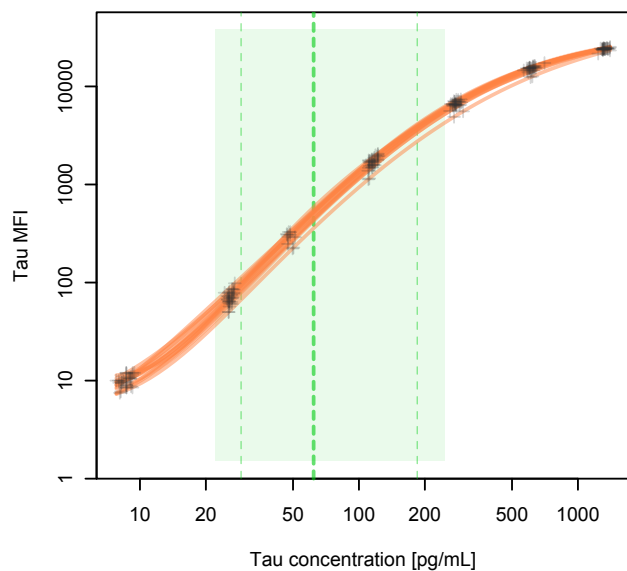
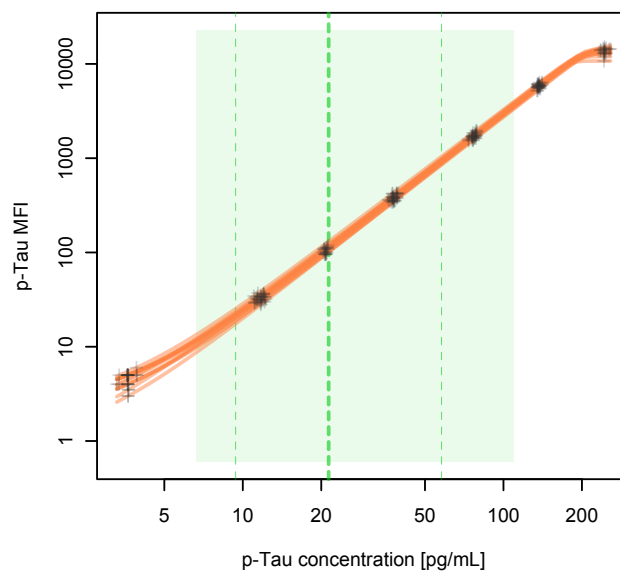
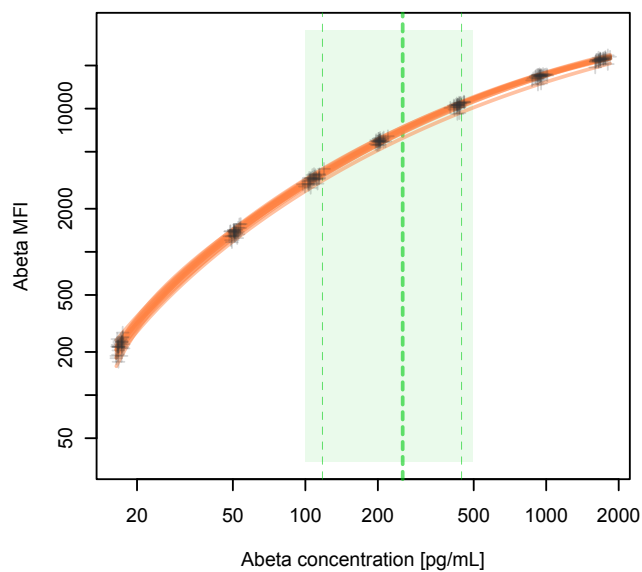
1. Summary of runs
2. Cumulative log-log plots of calibration curves for 14 analysis runs
3. Summary of precision of duplicates for calibrators, aqueous quality controls (A and B), CSF pools (53 and 54) and ADNI patient CSF samples.
4. Precision over time - MFI and pg/mL vs analysis day
 - (a) Calibration standards
 - (b) Controls A, B; CSF pools 53 and 54
5. Test/retest summary for $A\beta_{1-42}$, t-tau and p-tau₁₈₁: Deming regression plots and Bland-Altman bias plots for 17 CSF samples repeat-analyzed according to SOP LO 04.08 (Luminex method for simultaneous analysis of tau, $A\beta_{1-42}$ and p-tau₁₈₁ in CSF).
6. Summary table of patient CSF $A\beta_{1-42}$, t-tau and p-tau₁₈₁ results.

Analytical summary

Summary of runs

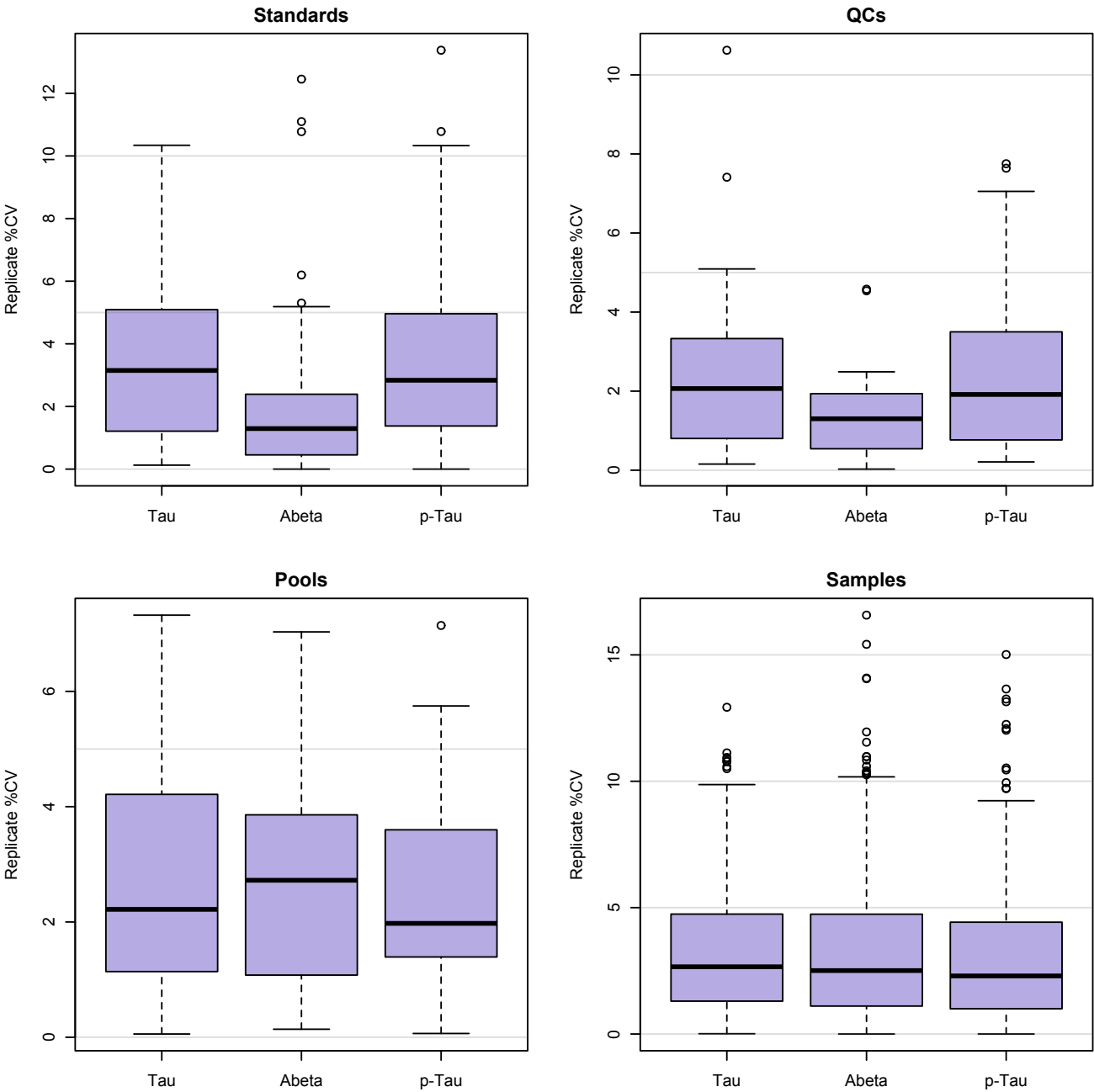
No.	Platform	S/N	Operator	Standards & Kit Lot #	Date	Wells
ADNI P11_04082014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-08	96
ADNI P12_04102014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-10	96
ADNI P13_04152014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-15	96
ADNI P14_04172014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-17	96
ADNI P15_L_04222014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-22	96
ADNI P16_04232014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-23	96
ADNI P17_04242014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-24	96
ADNI P18_L_04252014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-04-25	96
ADNI P19_05012014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-05-01	96
ADNI P110_05022014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-05-02	96
ADNI P111_05072014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-05-07	96
ADNI P112_05082014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-05-08	96
ADNI P113 and repeats_05092014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-05-09	96
ADNI repeats_05142014	xPONENT	LX10010180403	Teresa Waligorska	S236947_K237092	2014-05-14	96

Calibration Curve Plots



Coefficient	Abeta			p-Tau			Tau		
	Median	2.5% CI	97.5% CI	Median	2.5% CI	97.5% CI	Median	2.5% CI	97.5% CI
a	-134.6	-388.2	-21.14	2.12	0.7819	2.724	5.427	2.673	9.773
b	55314	34847	86126	13779	11134	16072	37139	33555	76668
c	89.39	3.235	844.5	206.9	186.3	217.4	266.9	40.67	390.1
d	-0.4954	-0.9578	-0.343	-21.17	-28.89	-8.516	-1.026	-1.27	-0.5524
f	4.468	1.087	13.98	0.09933	0.07441	0.2554	2.597	1.743	25.11

Replicate Precision Summary



Duplicate precision results for Standards.

Standards	N	Mean [%]	Median [%]	Minimum [%]	Maximum [%]
Tau	87	3.596	2.837	0	13.38
Abeta	94	3.511	3.15	0.1266	10.34
p-Tau	80	1.894	1.294	0	12.45

Duplicate precision results for QCs.

QCs	N	Mean [%]	Median [%]	Minimum [%]	Maximum [%]
Tau	28	2.548	1.916	0.2096	7.753
Abeta	28	2.591	2.065	0.155	10.62
p-Tau	28	1.446	1.301	0.02776	4.579

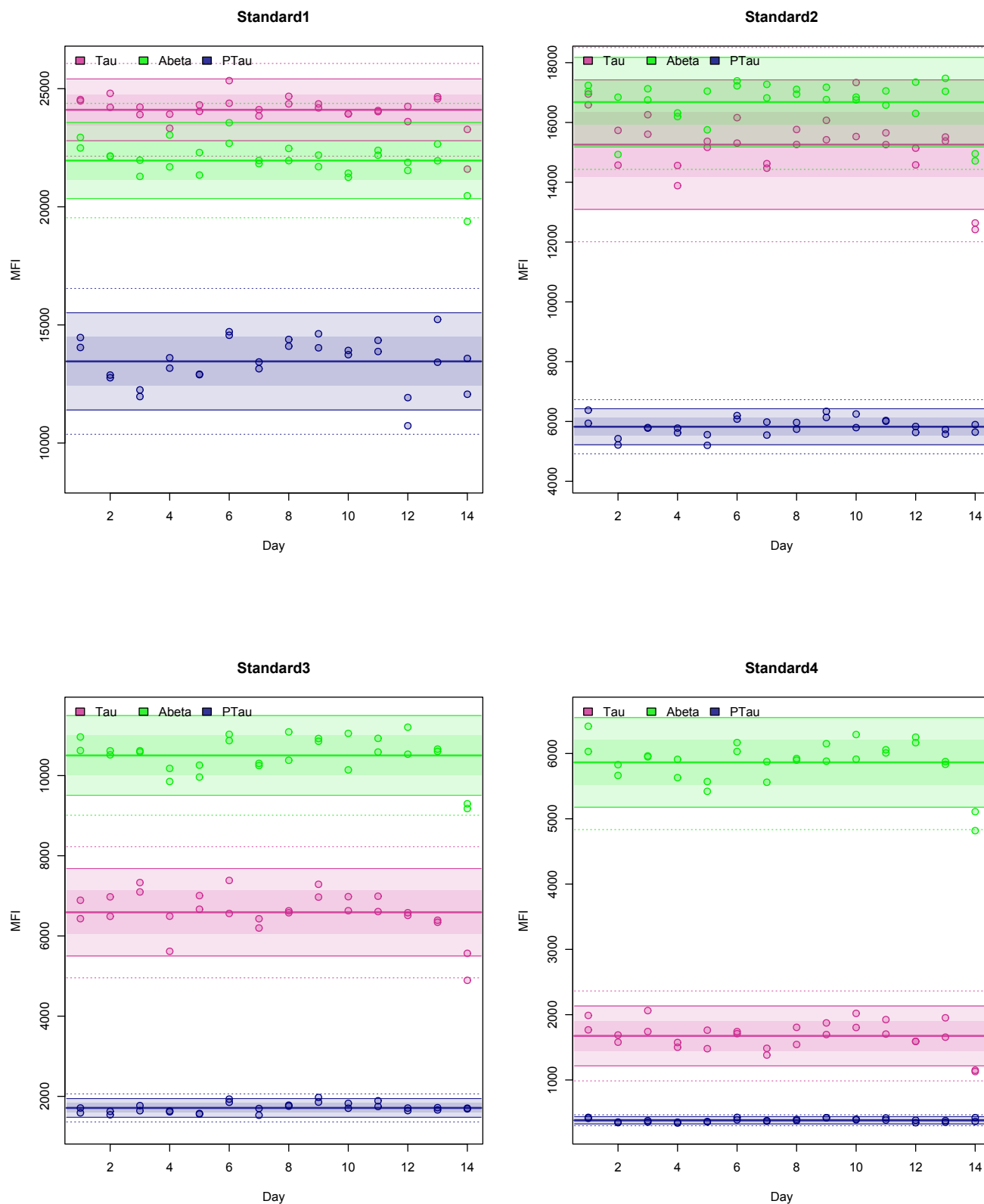
Duplicate precision results for Pools.

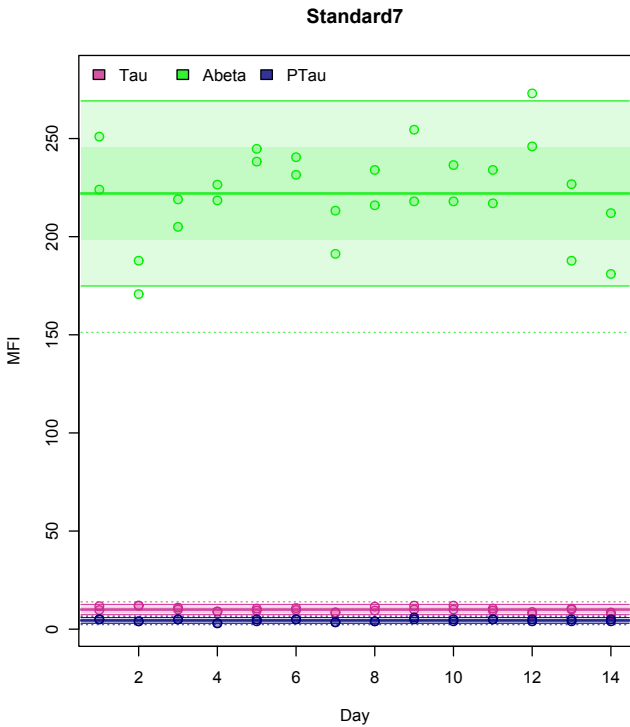
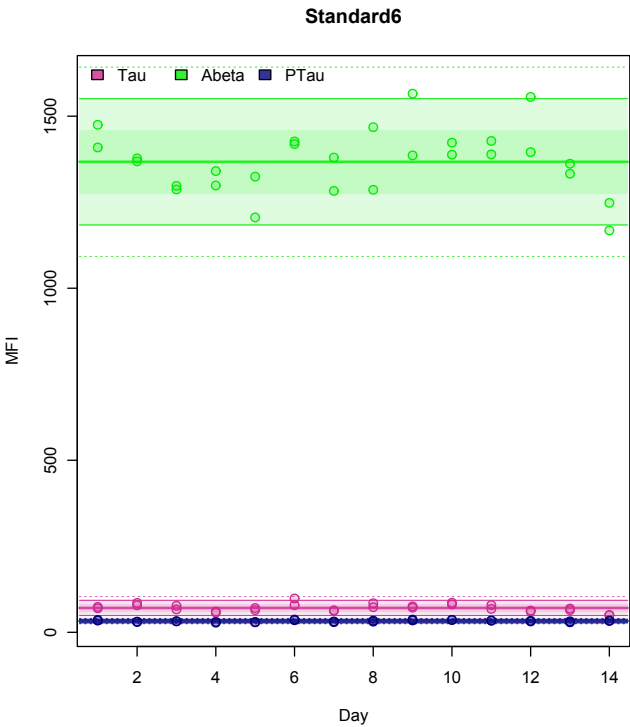
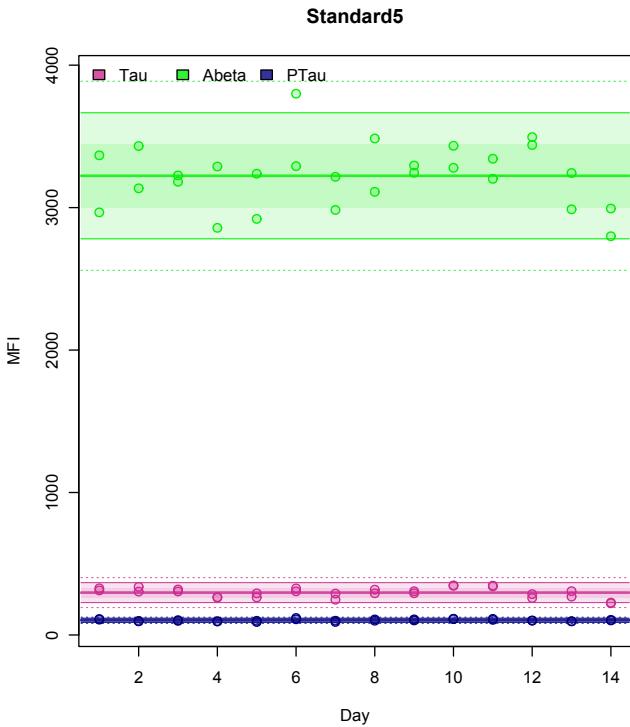
Pools	N	Mean [%]	Median [%]	Minimum [%]	Maximum [%]
Tau	28	2.617	1.976	0.06532	7.143
Abeta	28	2.906	2.218	0.05628	7.322
p-Tau	28	2.788	2.723	0.1393	7.032

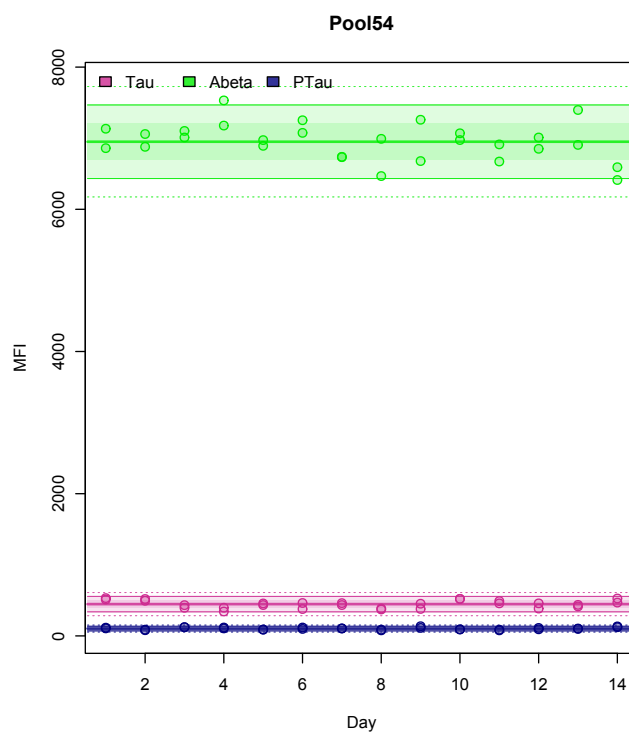
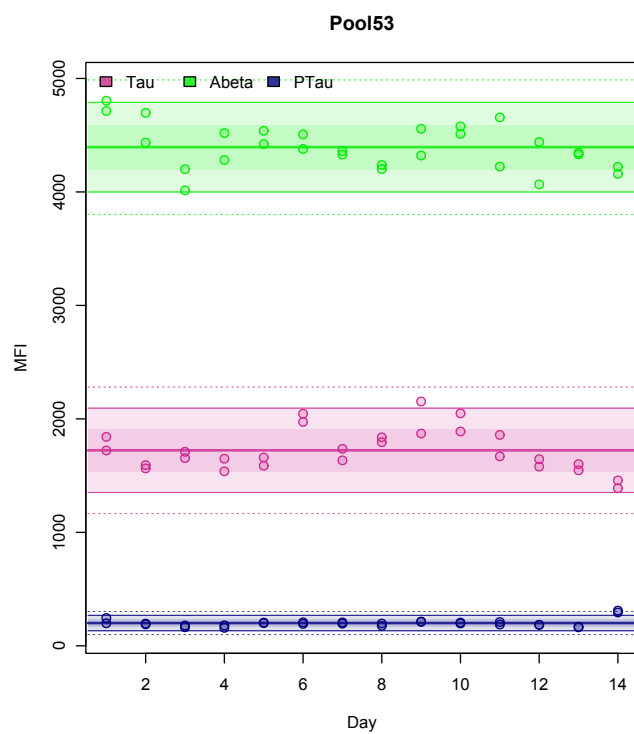
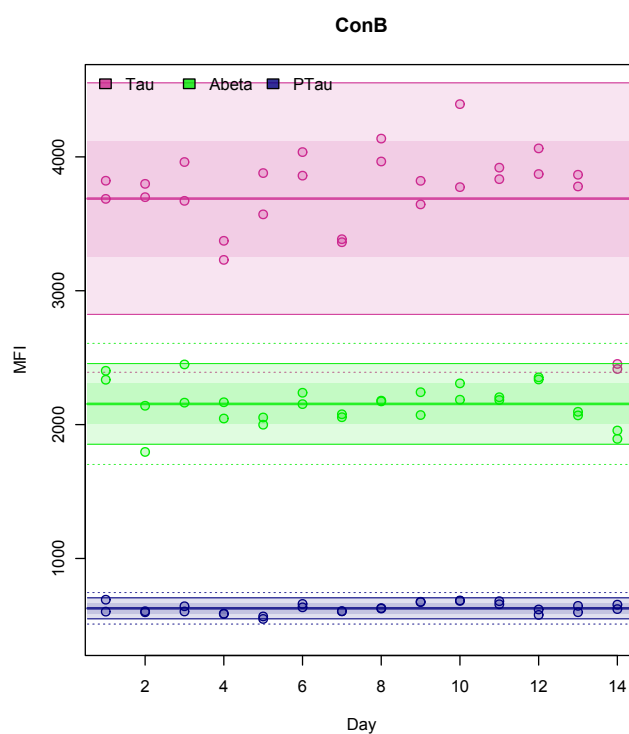
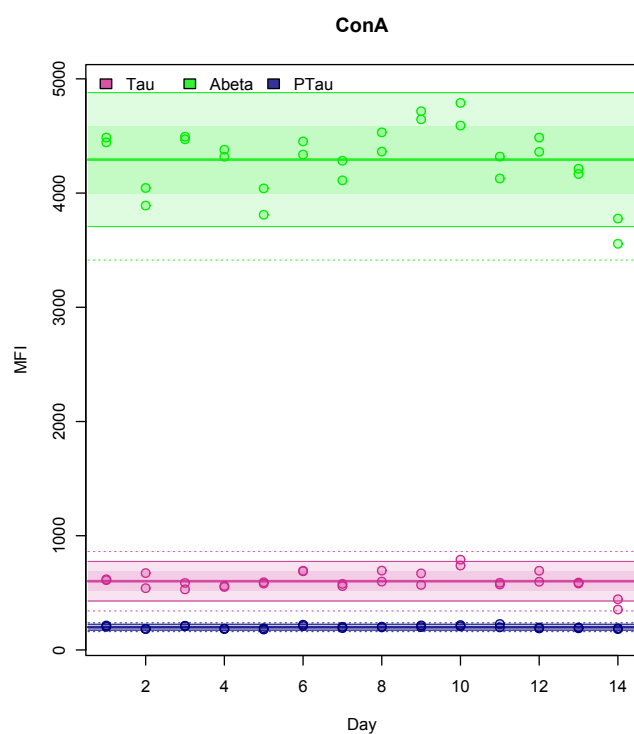
Duplicate precision results for ADNI CSF samples.

Samples	N	Mean [%]	Median [%]	Minimum [%]	Maximum [%]
Tau	410	3.035	2.298	0	15.01
Abeta	427	3.311	2.66	0.01062	12.93
p-Tau	427	3.317	2.51	0	16.57

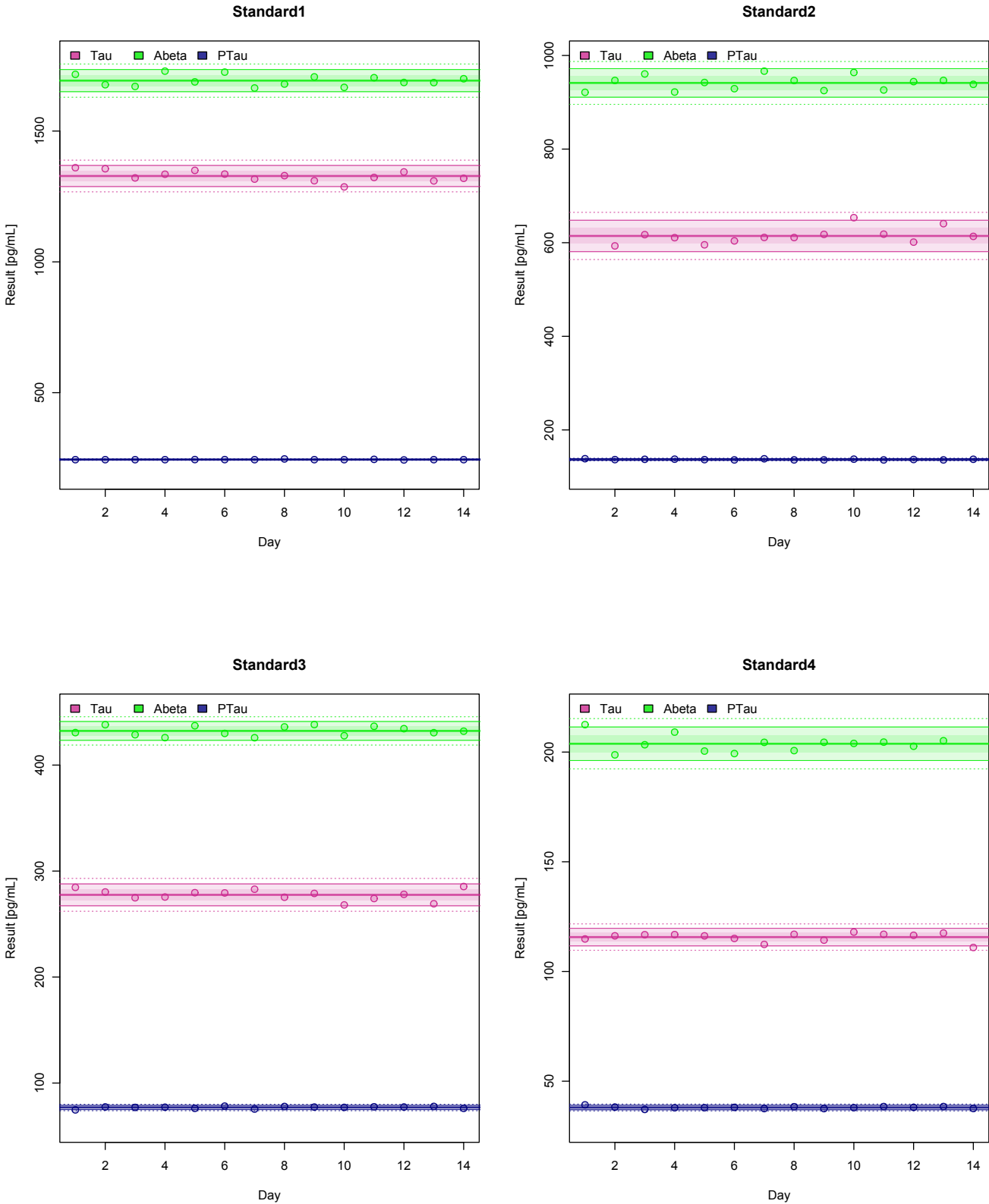
Longitudinal precision of MFI

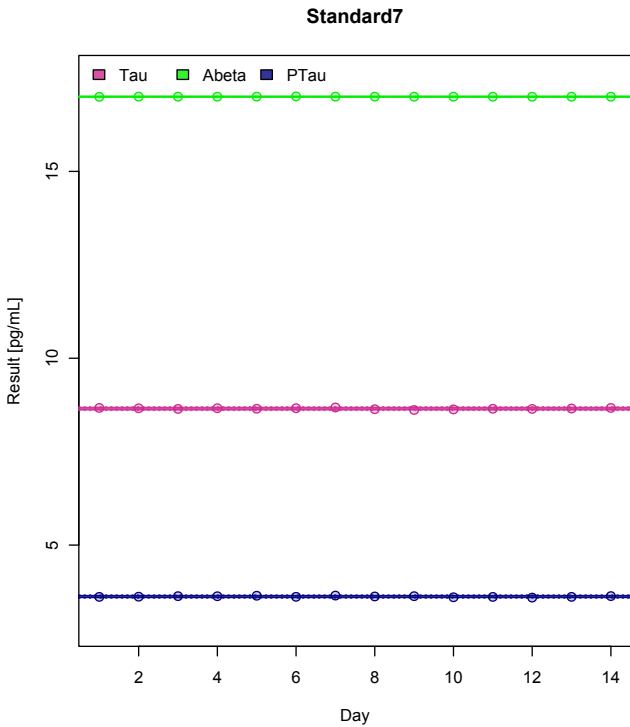
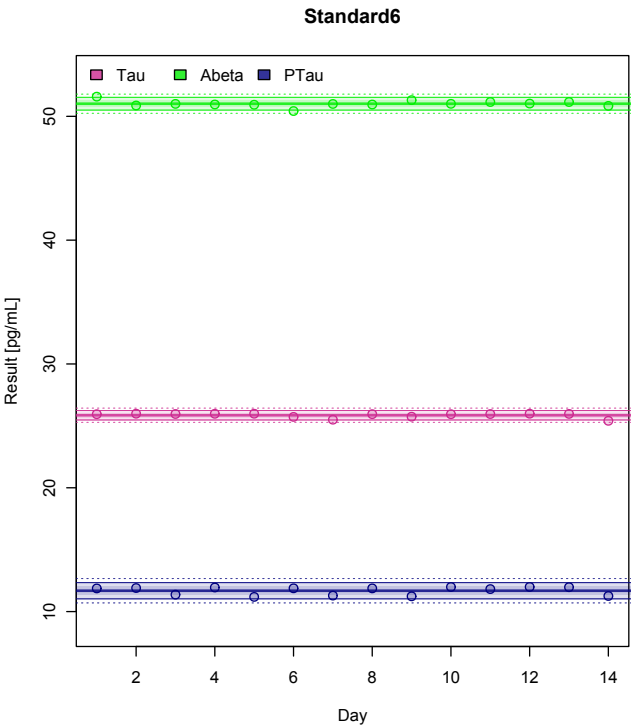
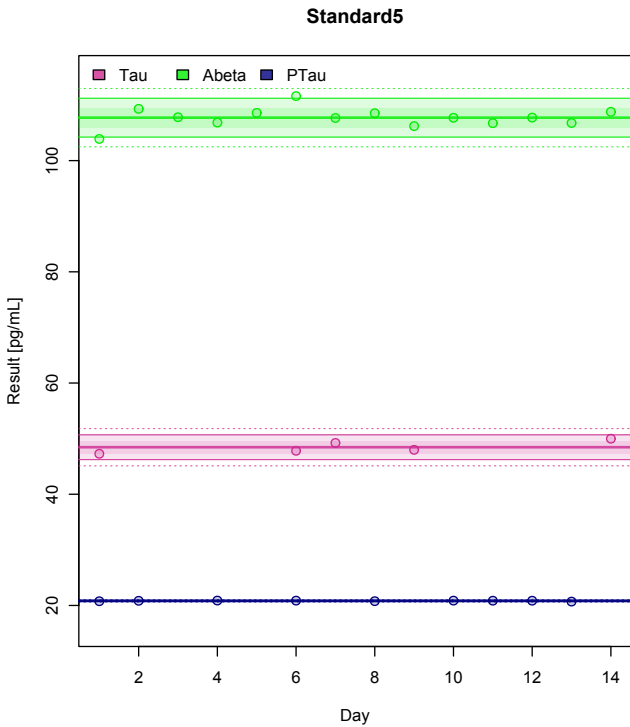


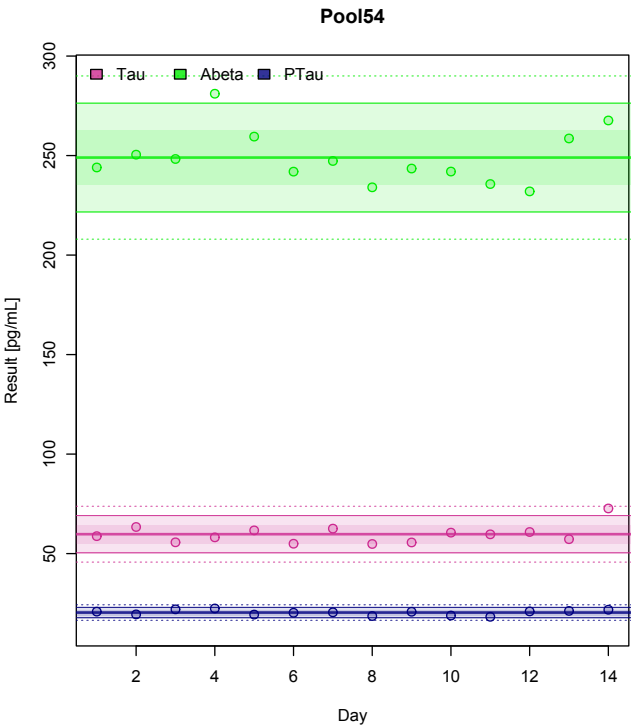
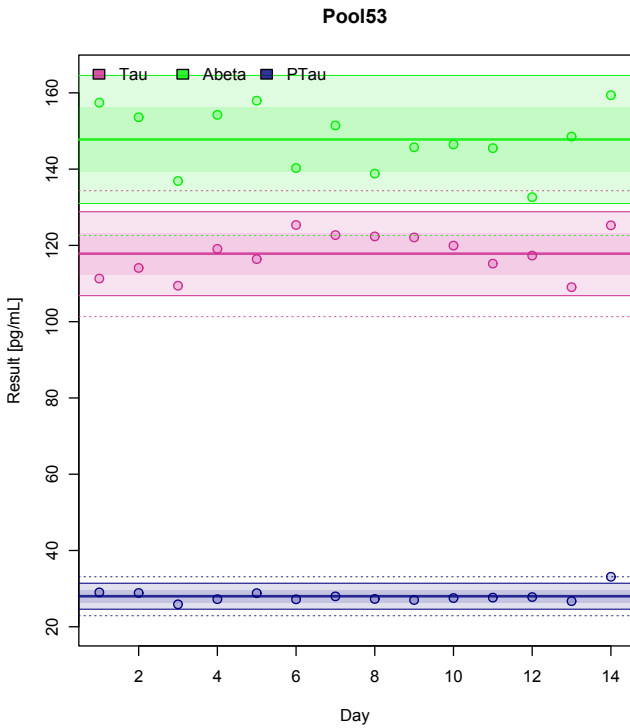
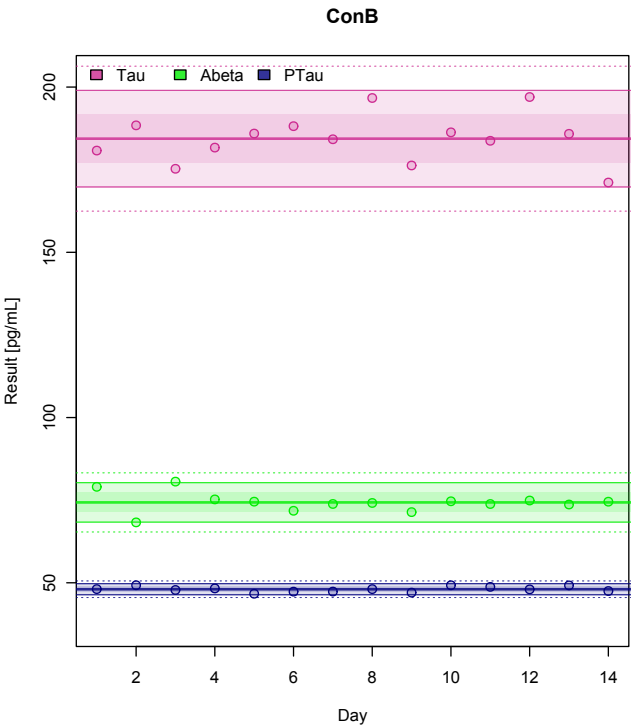
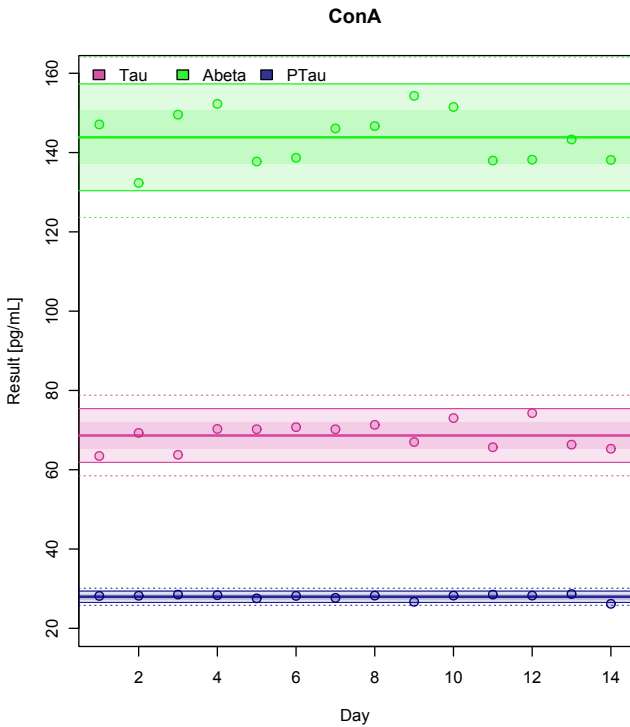




Longitudinal precision of Results





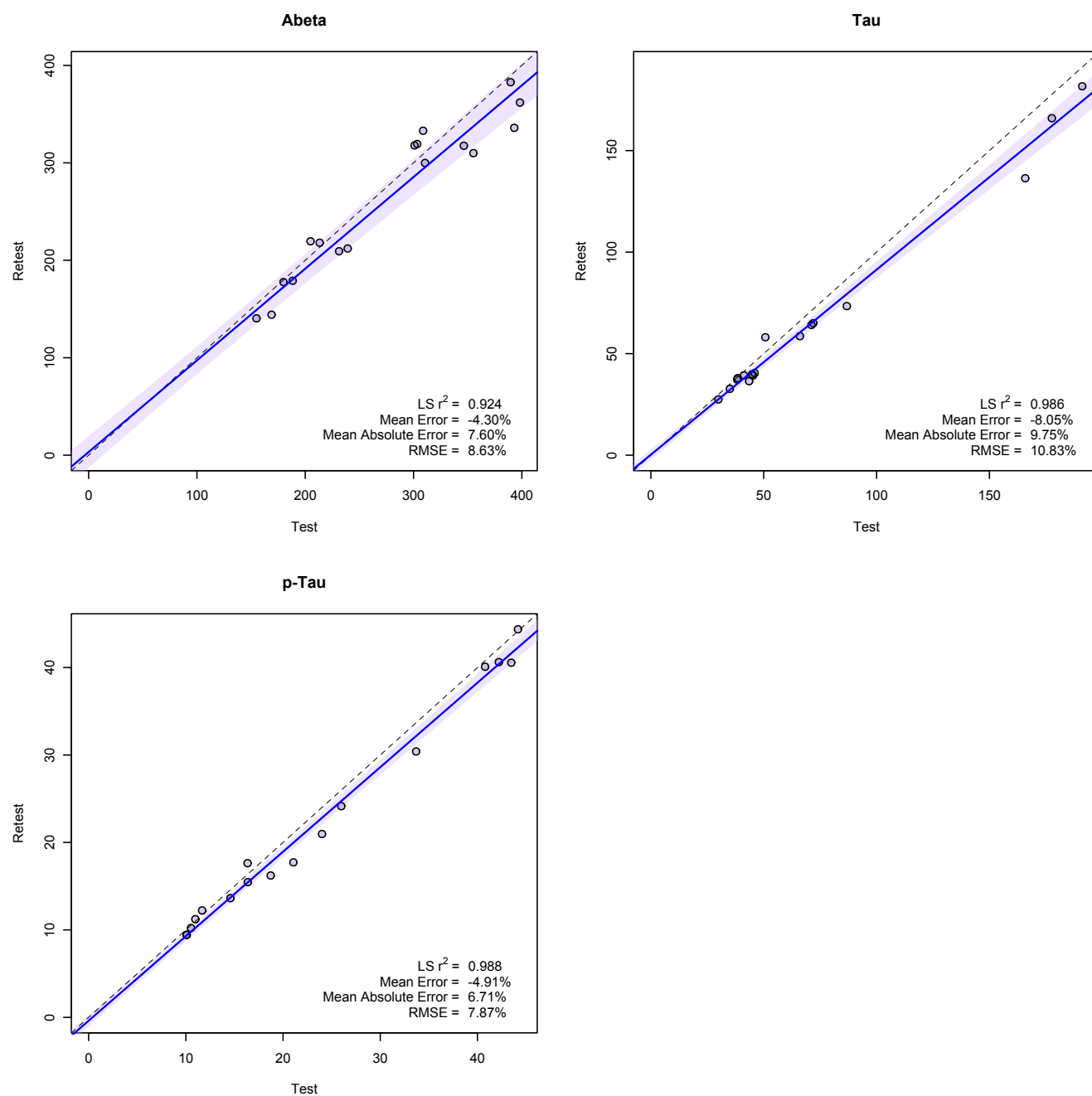


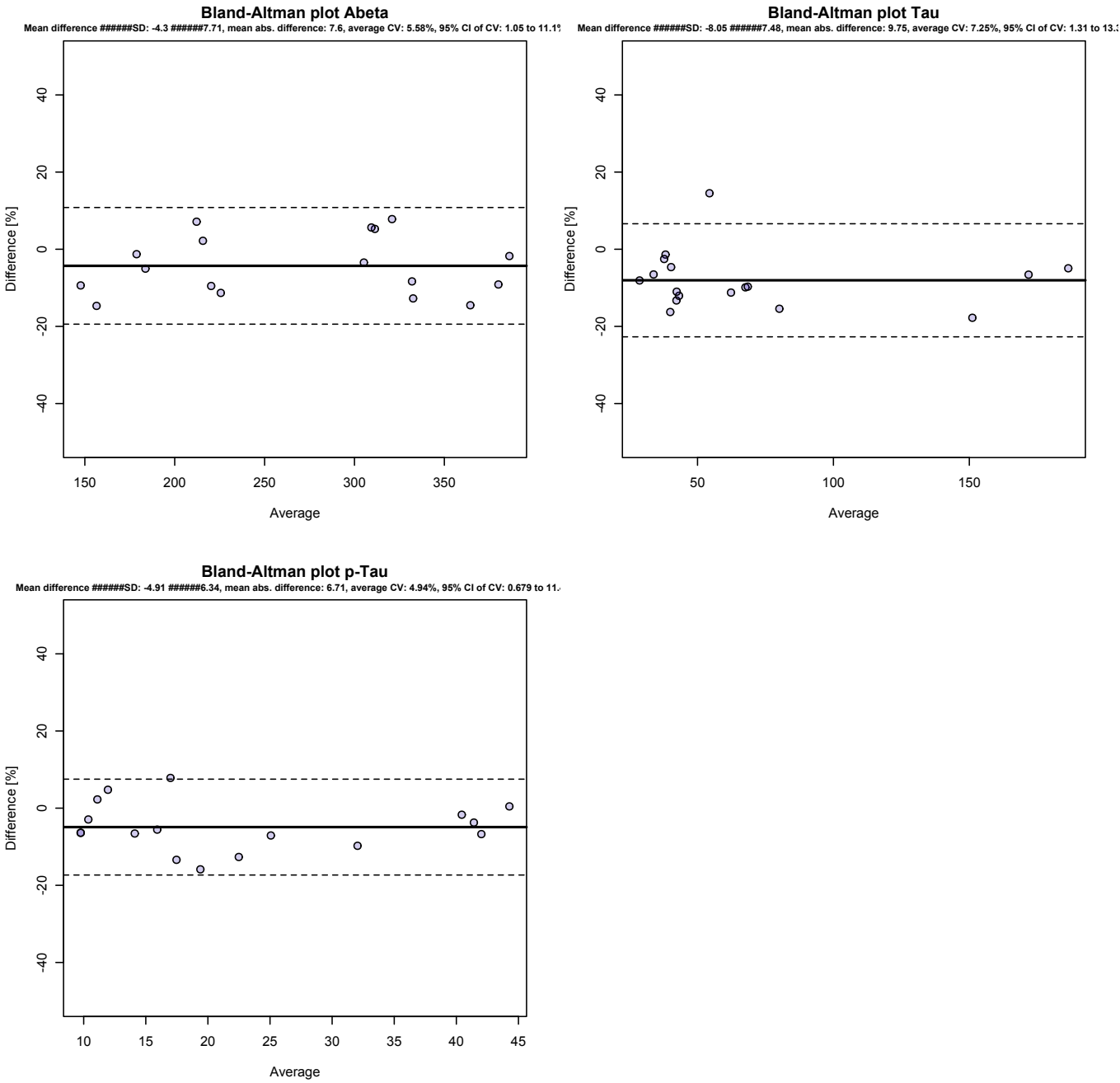
Analyte	Sample	N	Mean	SD	2.5% CI	97.5% CI	Imprecision (%CV)	Inaccuracy (%)
Tau	Standard1	14	1328	20.2	1294	1359	1.52	-2.62
	Standard2	13	614.5	16.79	593.9	649.7	2.73	4.68
	Standard3	14	277.6	5.163	268.4	285.1	1.86	-1.57
	Standard4	14	115.7	2.005	111.4	117.8	1.73	-0.28
	Standard5	5	48.46	1.116	47.33	49.91	2.3	3.10
	Standard6	14	25.86	0.1917	25.44	25.98	0.74	-0.55
	Standard7	14	8.652	0.01775	8.62	8.678	0.21	-0.10
Abeta	Standard1	14	1693	21.19	1665	1728	1.25	0.09
	Standard2	14	941.4	15.26	921.5	965.6	1.62	0.64
	Standard3	14	432.2	4.448	425.8	438.2	1.03	2.62
	Standard4	13	203.8	3.823	198.9	211.5	1.88	-2.52
	Standard5	14	107.7	1.747	104.6	110.9	1.62	-5.37
	Standard6	14	51.02	0.258	50.56	51.5	0.51	6.22
	Standard7	14	17	0.002464	17	17	0.01	-1.02
p-Tau	Standard1	14	244.2	0.8525	243.3	246.2	0.35	0.70
	Standard2	14	136.9	0.8959	135.9	138.5	0.65	-0.49
	Standard3	14	76.97	1.018	74.92	78.14	1.32	-0.40
	Standard4	14	38.02	0.521	37.25	38.97	1.37	0.89
	Standard5	9	20.82	0.0629	20.71	20.87	0.3	-0.26
	Standard6	14	11.68	0.3278	11.2	11.99	2.81	0.04
	Standard7	14	3.623	0.01531	3.597	3.647	0.42	-0.00

Analyte	Sample	N	Mean	SD	2.5% CI	97.5% CI	Imprecision (%CV)	Inaccuracy (%)
Tau	ConA	14	68.64	3.388	63.57	73.87	4.94	0.94
	ConB	14	184.4	7.31	172.5	196.9	3.96	0.21
Abeta	ConA	14	143.8	6.738	134.1	153.6	4.68	-3.58
	ConB	14	74.32	2.982	69.29	80.1	4.01	0.10
p-Tau	ConA	14	27.96	0.7181	26.34	28.61	2.57	-1.47
	ConB	14	48.05	0.8377	46.8	49.26	1.74	1.81

Analyte	Sample	N	Mean	SD	2.5% CI	97.5% CI	Imprecision (%CV)
Tau	Pool53	14	117.8	5.503	109.2	125.3	4.67
	Pool54	14	59.75	4.677	54.87	69.65	7.83
Abeta	Pool53	14	147.8	8.394	134	158.9	5.68
	Pool54	14	249	13.67	232.7	276.7	5.49
p-Tau	Pool53	14	28.01	1.703	26.16	31.78	6.08
	Pool54	14	20.38	1.3	18.36	22.28	6.38

Test-retest summary (Deming regression)





Patient results

Table of patient results

#	ID	Date	Sample	Abeta	Tau	p-Tau
1	ADNI PI2_04102014	2014-04-10	2167v2	198.96	85.58	25.28
2	ADNI PI2_04102014	2014-04-10	2167v6	224.67	84.07	27.25
3	ADNI PI2_04102014	2014-04-10	2190v2	220.77	98.99	25.53
4	ADNI PI2_04102014	2014-04-10	2190v6	202.42	93.87	39.87
5	ADNI PI2_04102014	2014-04-10	2216v2	158.65	67.59	22.54
6	ADNI PI2_04102014	2014-04-10	2216v6	165.17	86.83	34.82
7	ADNI PI2_04102014	2014-04-10	2225v2	246.79	82.23	20.18
8	ADNI PI2_04102014	2014-04-10	2225v6	238.05	80.55	25.67
9	ADNI PI2_04102014	2014-04-10	2247v2	305.16	40.99	9.76
10	ADNI PI2_04102014	2014-04-10	2247v6	355.28	45.25	11.67
11	ADNI PI2_04102014	2014-04-10	2264v2	199.65	44.26	46.11
12	ADNI PI2_04102014	2014-04-10	2264v6	194.59	50.26	33.15
13	ADNI PI2_04102014	2014-04-10	2307v2	199.29	91.78	16.56
14	ADNI PI2_04102014	2014-04-10	2307v6	170.85	104.20	19.18
15	ADNI PI2_04102014	2014-04-10	2336v2	242.86	114.37	49.32
16	ADNI PI2_04102014	2014-04-10	2336v6	238.17	116.85	61.31
17	ADNI PI2_04102014	2014-04-10	2347v2	227.43	72.15	13.84
18	ADNI PI2_04102014	2014-04-10	2347v6	216.32	72.67	18.84
19	ADNI PI2_04102014	2014-04-10	2357v2	408.78	65.90	14.45
20	ADNI PI2_04102014	2014-04-10	2357v6	399.38	55.59	19.33
21	ADNI PI2_04102014	2014-04-10	2373v2	154.96	191.12	44.17
22	ADNI PI2_04102014	2014-04-10	2373v6	159.19	124.79	31.64
23	ADNI PI2_04102014	2014-04-10	2374v2	395.13	69.77	14.48
24	ADNI PI2_04102014	2014-04-10	2374v6	367.35	92.45	25.22
25	ADNI PI2_04102014	2014-04-10	2381v2	115.62	189.97	38.54
26	ADNI PI2_04102014	2014-04-10	2381v6	126.64	231.72	85.74
27	ADNI PI2_04102014	2014-04-10	2390v2	198.60	128.00	27.15
28	ADNI PI2_04102014	2014-04-10	2390v6	186.17	108.28	42.13
29	ADNI PI2_04102014	2014-04-10	2391v2	147.67	68.94	22.13
30	ADNI PI2_04102014	2014-04-10	2391v6	166.15	63.00	19.77
31	ADNI PI2_04102014	2014-04-10	2392v2	242.52	37.11	16.55
32	ADNI PI2_04102014	2014-04-10	2392v6	223.39	33.07	10.36
33	ADNI PI2_04102014	2014-04-10	2394v2	126.61	62.71	14.01
34	ADNI PI2_04102014	2014-04-10	2394v6	122.60	50.90	23.35
35	ADNI PI2_04102014	2014-04-10	2396v2	372.51	47.72	11.84
36	ADNI PI2_04102014	2014-04-10	2396v6	358.58	38.80	12.71
37	ADNI PI3_04152014	2014-04-15	2398v2	209.61	48.02	9.18
38	ADNI PI3_04152014	2014-04-15	2398v6	157.76	46.03	18.71
39	ADNI PI3_04152014	2014-04-15	2403v2	165.45	80.84	15.88
40	ADNI PI3_04152014	2014-04-15	2403v6	149.67	84.97	17.25
41	ADNI PI3_04152014	2014-04-15	2405v2	393.22	72.96	19.62
42	ADNI PI3_04152014	2014-04-15	2405v6	373.06	77.94	41.06
43	ADNI PI3_04152014	2014-04-15	2407v2	389.63	43.50	18.72
44	ADNI PI3_04152014	2014-04-15	2407v6	447.40	53.75	14.14
45	ADNI PI3_04152014	2014-04-15	4003v2	260.18	83.40	16.59
46	ADNI PI3_04152014	2014-04-15	4003v6	259.63	78.04	20.28
47	ADNI PI3_04152014	2014-04-15	4004v2	379.04	75.26	22.29
48	ADNI PI3_04152014	2014-04-15	4004v6	388.54	75.07	18.24
49	ADNI PI3_04152014	2014-04-15	4010v2	213.04	43.37	14.68
50	ADNI PI3_04152014	2014-04-15	4010v6	179.94	41.23	14.59
51	ADNI PI3_04152014	2014-04-15	4012v2	244.59	92.40	28.94
52	ADNI PI3_04152014	2014-04-15	4012v6	192.51	121.79	40.10

#	ID	Date	Sample	Abeta	Tau	p-Tau
53	ADNI P13_04152014	2014-04-15	4014v2	135.34	88.22	27.94
54	ADNI P13_04152014	2014-04-15	4014v6	141.33	88.30	41.10
55	ADNI P13_04152014	2014-04-15	4015v2	119.50	133.87	40.56
56	ADNI P13_04152014	2014-04-15	4015v6	115.19	135.70	35.06
57	ADNI P13_04152014	2014-04-15	4018v2	396.61	45.62	11.08
58	ADNI P13_04152014	2014-04-15	4018v6	385.86	56.35	X
59	ADNI P13_04152014	2014-04-15	4021v2	275.26	24.56	13.97
60	ADNI P13_04152014	2014-04-15	4021v6	266.75	23.79	7.10
61	ADNI P13_04152014	2014-04-15	4026v2	188.01	58.46	13.69
62	ADNI P13_04152014	2014-04-15	4026v6	183.28	56.82	14.22
63	ADNI P13_04152014	2014-04-15	4028v2	349.49	78.32	20.46
64	ADNI P13_04152014	2014-04-15	4028v6	290.26	75.67	21.31
65	ADNI P13_04152014	2014-04-15	4029v2	236.78	76.36	21.60
66	ADNI P13_04152014	2014-04-15	4029v6	199.68	66.82	16.63
67	ADNI P13_04152014	2014-04-15	4030v2	157.02	44.07	77.36
68	ADNI P13_04152014	2014-04-15	4030v6	178.24	74.89	39.12
69	ADNI P13_04152014	2014-04-15	4032v2	326.25	44.99	19.89
70	ADNI P13_04152014	2014-04-15	4032v6	309.14	30.54	8.03
71	ADNI P14_04172014	2014-04-17	4035v2	180.48	141.49	32.89
72	ADNI P14_04172014	2014-04-17	4035v6	168.92	165.86	33.69
73	ADNI P14_04172014	2014-04-17	4036v2	410.99	56.02	13.98
74	ADNI P14_04172014	2014-04-17	4036v6	373.24	65.53	34.44
75	ADNI P14_04172014	2014-04-17	4041v2	373.11	104.75	25.33
76	ADNI P14_04172014	2014-04-17	4041v6	370.56	105.29	30.81
77	ADNI P14_04172014	2014-04-17	4043v2	438.34	66.98	19.84
78	ADNI P14_04172014	2014-04-17	4043v6	406.67	67.53	13.90
79	ADNI P14_04172014	2014-04-17	4050v2	342.88	42.30	13.43
80	ADNI P14_04172014	2014-04-17	4050v6	337.43	39.12	16.02
81	ADNI P14_04172014	2014-04-17	4060v2	231.25	46.34	12.90
82	ADNI P14_04172014	2014-04-17	4060v6	175.32	38.97	21.51
83	ADNI P14_04172014	2014-04-17	4071v2	228.43	98.76	19.35
84	ADNI P14_04172014	2014-04-17	4071v6	209.78	94.73	47.46
85	ADNI P14_04172014	2014-04-17	4075v2	343.98	76.61	26.97
86	ADNI P13 and repeats_05092014	2014-05-09	4075v6	345.77	66.35	15.72
87	ADNI P14_04172014	2014-04-17	4076v2	415.50	47.71	12.64
88	ADNI P14_04172014	2014-04-17	4076v6	399.81	50.30	35.10
89	ADNI P14_04172014	2014-04-17	4084v2	429.39	65.45	22.31
90	ADNI P14_04172014	2014-04-17	4084v6	406.44	66.63	20.08
91	ADNI P14_04172014	2014-04-17	4086v2	289.49	27.34	9.10
92	ADNI P14_04172014	2014-04-17	4086v6	257.86	29.57	9.57
93	ADNI P14_04172014	2014-04-17	4089v2	188.45	177.65	43.48
94	ADNI P14_04172014	2014-04-17	4089v6	179.30	125.95	47.56
95	ADNI P14_04172014	2014-04-17	4090v2	476.73	55.70	32.67
96	ADNI P14_04172014	2014-04-17	4090v6	302.75	54.72	33.14
97	ADNI P14_04172014	2014-04-17	4092v2	192.95	110.74	29.76
98	ADNI P14_04172014	2014-04-17	4092v6	167.02	112.06	33.85
99	ADNI P14_04172014	2014-04-17	4094v2	317.57	39.88	23.42
100	ADNI P14_04172014	2014-04-17	4094v6	313.31	35.57	12.85
101	ADNI P14_04172014	2014-04-17	4105v2	293.41	34.18	11.79
102	ADNI P14_04172014	2014-04-17	4105v6	345.40	35.54	18.36
103	ADNI P14_04172014	2014-04-17	4115v2	339.71	48.25	18.54
104	ADNI P14_04172014	2014-04-17	4115v6	349.90	68.42	39.38
105	ADNI P15 L_04222014	2014-04-22	4120v2	164.56	82.75	32.81
106	ADNI P15 L_04222014	2014-04-22	4120v6	164.23	75.58	51.69

#	ID	Date	Sample	Abeta	Tau	p-Tau
107	ADNI P15 L_04222014	2014-04-22	4127v2	285.91	28.16	7.40
108	ADNI P15 L_04222014	2014-04-22	4127v6	277.55	32.13	8.72
109	ADNI P15 L_04222014	2014-04-22	4128v2	231.29	71.14	40.78
110	ADNI P15 L_04222014	2014-04-22	4128v6	197.25	59.42	28.29
111	ADNI P15 L_04222014	2014-04-22	4138v2	384.06	87.38	21.35
112	ADNI P15 L_04222014	2014-04-22	4138v6	350.39	95.05	33.07
113	ADNI P15 L_04222014	2014-04-22	4143v2	410.63	68.09	15.75
114	ADNI P15 L_04222014	2014-04-22	4143v6	373.33	69.96	17.70
115	ADNI P15 L_04222014	2014-04-22	4146v2	188.23	54.70	20.37
116	ADNI P15 L_04222014	2014-04-22	4146v6	188.48	57.24	26.88
117	ADNI P15 L_04222014	2014-04-22	4148v2	311.41	54.94	16.83
118	ADNI P15 L_04222014	2014-04-22	4148v6	314.31	45.77	12.81
119	ADNI P15 L_04222014	2014-04-22	4149v2	226.41	50.13	16.12
120	ADNI P15 L_04222014	2014-04-22	4149v6	204.86	50.72	16.35
121	ADNI P15 L_04222014	2014-04-22	4153v2	140.38	97.42	45.00
122	ADNI P15 L_04222014	2014-04-22	4153v6	150.73	106.43	40.52
123	ADNI P15 L_04222014	2014-04-22	4158v2	331.46	51.11	16.74
124	ADNI P15 L_04222014	2014-04-22	4158v6	313.22	44.84	14.19
125	ADNI P15 L_04222014	2014-04-22	4160v2	297.56	34.36	8.98
126	ADNI P15 L_04222014	2014-04-22	4160v6	347.14	33.34	9.77
127	ADNI P15 L_04222014	2014-04-22	4164v2	374.24	48.50	12.41
128	ADNI P15 L_04222014	2014-04-22	4164v6	391.57	50.07	12.51
129	ADNI P15 L_04222014	2014-04-22	4167v2	168.55	81.90	32.84
130	ADNI P15 L_04222014	2014-04-22	4167v6	167.50	77.43	26.53
131	ADNI P15 L_04222014	2014-04-22	4168v2	208.77	53.00	11.88
132	ADNI P15 L_04222014	2014-04-22	4168v6	186.79	46.41	16.24
133	ADNI P15 L_04222014	2014-04-22	4169v2	324.03	48.12	16.74
134	ADNI P15 L_04222014	2014-04-22	4169v6	321.71	47.62	19.53
135	ADNI P16_04232014	2014-04-23	4170v2	276.79	46.94	21.86
136	ADNI P16_04232014	2014-04-23	4170v6	246.99	46.43	29.51
137	ADNI P16_04232014	2014-04-23	4173v2	325.18	36.91	11.56
138	ADNI P16_04232014	2014-04-23	4173v6	323.73	40.58	9.29
139	ADNI P16_04232014	2014-04-23	4175v2	250.00	84.63	21.65
140	ADNI P16_04232014	2014-04-23	4175v6	239.17	86.81	21.07
141	ADNI P16_04232014	2014-04-23	4176v2	190.85	142.50	40.27
142	ADNI P16_04232014	2014-04-23	4176v6	174.44	145.90	55.75
143	ADNI P16_04232014	2014-04-23	4177v2	315.30	43.12	13.31
144	ADNI P16_04232014	2014-04-23	4177v6	275.18	45.84	14.09
145	ADNI P16_04232014	2014-04-23	4179v2	112.17	56.05	26.57
146	ADNI P16_04232014	2014-04-23	4179v6	114.43	56.16	24.55
147	ADNI P16_04232014	2014-04-23	4187v2	243.37	55.56	12.35
148	ADNI P16_04232014	2014-04-23	4187v6	247.10	53.45	17.67
149	ADNI P16_04232014	2014-04-23	4188v2	173.38	83.64	32.18
150	ADNI P16_04232014	2014-04-23	4188v6	158.47	78.91	30.65
151	ADNI P16_04232014	2014-04-23	4189v2	144.59	140.94	20.84
152	ADNI P16_04232014	2014-04-23	4189v6	161.12	134.35	40.53
153	ADNI P16_04232014	2014-04-23	4192v2	192.76	60.96	21.71
154	ADNI P16_04232014	2014-04-23	4192v6	175.93	74.75	42.33
155	ADNI P16_04232014	2014-04-23	4197v2	184.34	56.73	14.76
156	ADNI P16_04232014	2014-04-23	4197v6	171.34	58.13	24.53
157	ADNI P16_04232014	2014-04-23	4198v2	203.16	52.50	22.99
158	ADNI P16_04232014	2014-04-23	4198v6	203.22	47.27	22.26
159	ADNI P16_04232014	2014-04-23	4199v2	324.67	33.05	17.41
160	ADNI P16_04232014	2014-04-23	4199v6	333.27	34.57	13.22

#	ID	Date	Sample	Abeta	Tau	p-Tau
161	ADNI Pl6_04232014	2014-04-23	4200v2	346.45	38.49	10.08
162	ADNI Pl6_04232014	2014-04-23	4200v6	358.40	39.06	9.85
163	ADNI Pl6_04232014	2014-04-23	4208v2	331.58	44.62	14.86
164	ADNI Pl6_04232014	2014-04-23	4208v6	338.99	39.00	24.09
165	ADNI Pl6_04232014	2014-04-23	4210v2	301.74	68.21	27.16
166	ADNI Pl6_04232014	2014-04-23	4210v6	310.59	71.97	42.20
167	ADNI Pl6_04232014	2014-04-23	4211v2	150.09	47.86	15.83
168	ADNI Pl6_04232014	2014-04-23	4211v6	157.56	54.33	18.49
169	ADNI Pl7_04242014	2014-04-24	4213v2	408.60	53.37	17.90
170	ADNI Pl7_04242014	2014-04-24	4213v6	418.57	55.65	27.41
171	ADNI Pl7_04242014	2014-04-24	4214v2	310.19	34.03	9.45
172	ADNI Pl7_04242014	2014-04-24	4214v6	305.84	30.56	22.95
173	ADNI Pl7_04242014	2014-04-24	4215v2	184.85	76.41	45.92
174	ADNI Pl7_04242014	2014-04-24	4215v6	165.02	74.37	35.67
175	ADNI Pl7_04242014	2014-04-24	4218v2	394.43	76.51	18.81
176	ADNI Pl7_04242014	2014-04-24	4218v6	409.35	80.94	23.91
177	ADNI Pl7_04242014	2014-04-24	4220v2	433.13	61.38	15.44
178	ADNI Pl7_04242014	2014-04-24	4220v6	396.05	64.06	14.23
179	ADNI Pl7_04242014	2014-04-24	4224v2	339.88	44.03	13.51
180	ADNI Pl7_04242014	2014-04-24	4224v6	337.04	43.23	18.84
181	ADNI repeats_05142014	2014-05-14	4225v2	197.78	129.65	33.51
182	ADNI Pl7_04242014	2014-04-24	4225v6	182.37	104.05	36.23
183	ADNI Pl7_04242014	2014-04-24	4229v2	286.44	26.83	11.99
184	ADNI repeats_05142014	2014-05-14	4229v6	349.95	35.78	12.42
185	ADNI Pl7_04242014	2014-04-24	4235v2	161.13	77.34	29.61
186	ADNI Pl7_04242014	2014-04-24	4235v6	156.71	83.75	34.93
187	ADNI Pl7_04242014	2014-04-24	4237v2	398.26	66.02	16.37
188	ADNI Pl7_04242014	2014-04-24	4237v6	324.77	25.64	22.70
189	ADNI Pl7_04242014	2014-04-24	4243v2	225.58	97.39	38.60
190	ADNI Pl7_04242014	2014-04-24	4243v6	189.22	90.62	53.54
191	ADNI Pl7_04242014	2014-04-24	4250v2	151.64	107.78	25.52
192	ADNI Pl7_04242014	2014-04-24	4250v6	151.00	108.27	26.75
193	ADNI Pl7_04242014	2014-04-24	4262v2	205.29	96.05	51.90
194	ADNI Pl7_04242014	2014-04-24	4262v6	212.61	119.20	33.51
195	ADNI Pl7_04242014	2014-04-24	4263v2	165.34	106.88	43.10
196	ADNI Pl7_04242014	2014-04-24	4263v6	141.17	92.04	28.52
197	ADNI Pl7_04242014	2014-04-24	4266v2	215.24	81.93	25.37
198	ADNI Pl7_04242014	2014-04-24	4266v6	212.93	87.76	27.08
199	ADNI Pl7_04242014	2014-04-24	4269v2	285.30	47.00	11.23
200	ADNI Pl7_04242014	2014-04-24	4269v6	303.38	45.97	10.98
201	ADNI Pl7_04242014	2014-04-24	4270v2	159.06	31.60	15.30
202	ADNI Pl7_04242014	2014-04-24	4270v6	141.62	34.75	15.76
203	ADNI Pl8 L_04252014	2014-04-25	4271v2	318.34	46.93	13.39
204	ADNI Pl8 L_04252014	2014-04-25	4271v6	312.09	39.84	13.06
205	ADNI Pl8 L_04252014	2014-04-25	4272v2	199.98	53.12	15.57
206	ADNI Pl8 L_04252014	2014-04-25	4272v6	183.84	54.42	14.25
207	ADNI Pl8 L_04252014	2014-04-25	4278v2	127.03	54.33	15.18
208	ADNI Pl8 L_04252014	2014-04-25	4278v6	117.64	60.00	20.10
209	ADNI Pl8 L_04252014	2014-04-25	4281v2	384.08	75.53	19.71
210	ADNI Pl8 L_04252014	2014-04-25	4281v6	377.43	74.71	26.87
211	ADNI Pl8 L_04252014	2014-04-25	4287v2	152.28	111.32	33.60
212	ADNI Pl8 L_04252014	2014-04-25	4287v6	158.23	108.23	33.90
213	ADNI Pl8 L_04252014	2014-04-25	4290v2	177.29	99.71	26.49
214	ADNI Pl8 L_04252014	2014-04-25	4290v6	174.52	109.08	28.07

#	ID	Date	Sample	Abeta	Tau	p-Tau
215	ADNI P18 L_04252014	2014-04-25	4291v2	201.92	50.12	14.64
216	ADNI P18 L_04252014	2014-04-25	4291v6	193.93	58.12	19.56
217	ADNI P18 L_04252014	2014-04-25	4292v2	332.54	53.28	15.57
218	ADNI P18 L_04252014	2014-04-25	4292v6	279.97	52.65	13.43
219	ADNI P18 L_04252014	2014-04-25	4294v2	133.63	148.18	23.74
220	ADNI P18 L_04252014	2014-04-25	4294v6	112.88	83.84	29.78
221	ADNI P18 L_04252014	2014-04-25	4299v2	324.93	62.00	18.63
222	ADNI P18 L_04252014	2014-04-25	4299v6	382.43	61.41	15.48
223	ADNI P18 L_04252014	2014-04-25	4300v2	191.00	40.91	22.88
224	ADNI P18 L_04252014	2014-04-25	4300v6	158.24	36.12	13.47
225	ADNI P18 L_04252014	2014-04-25	4301v2	300.93	34.97	10.08
226	ADNI P18 L_04252014	2014-04-25	4301v6	295.51	33.53	8.93
227	ADNI P18 L_04252014	2014-04-25	4302v2	194.70	87.88	24.54
228	ADNI P18 L_04252014	2014-04-25	4302v6	195.82	103.71	47.15
229	ADNI P18 L_04252014	2014-04-25	4311v2	256.37	68.09	21.13
230	ADNI P18 L_04252014	2014-04-25	4311v6	217.19	75.90	20.34
231	ADNI P18 L_04252014	2014-04-25	4312v2	134.68	54.18	16.50
232	ADNI P18 L_04252014	2014-04-25	4312v6	129.19	55.04	19.40
233	ADNI P18 L_04252014	2014-04-25	4313v2	308.83	38.21	10.53
234	ADNI P18 L_04252014	2014-04-25	4313v6	290.03	39.38	14.06
235	ADNI P19_05012014	2014-05-01	4320v2	258.94	66.73	18.99
236	ADNI P19_05012014	2014-05-01	4320v6	239.66	79.07	31.36
237	ADNI P19_05012014	2014-05-01	4328v2	397.22	49.08	22.42
238	ADNI P19_05012014	2014-05-01	4328v6	396.84	49.73	29.33
239	ADNI P19_05012014	2014-05-01	4338v2	345.10	74.78	32.44
240	ADNI P19_05012014	2014-05-01	4338v6	349.44	73.86	23.02
241	ADNI P19_05012014	2014-05-01	4343v2	193.65	131.53	29.89
242	ADNI P19_05012014	2014-05-01	4343v6	157.05	110.66	35.50
243	ADNI P19_05012014	2014-05-01	4346v2	181.12	81.39	39.82
244	ADNI P19_05012014	2014-05-01	4346v6	176.45	81.63	21.48
245	ADNI P19_05012014	2014-05-01	4351v2	210.54	63.24	24.35
246	ADNI P19_05012014	2014-05-01	4351v6	184.77	64.21	32.59
247	ADNI P19_05012014	2014-05-01	4363v2	199.29	97.26	32.84
248	ADNI P19_05012014	2014-05-01	4363v6	204.90	109.54	50.04
249	ADNI P19_05012014	2014-05-01	4369v2	446.95	59.03	23.43
250	ADNI P19_05012014	2014-05-01	4369v6	449.16	63.79	24.89
251	ADNI P19_05012014	2014-05-01	4371v2	245.87	64.91	27.19
252	ADNI P19_05012014	2014-05-01	4371v6	236.76	72.90	43.51
253	ADNI P19_05012014	2014-05-01	4381v2	347.97	41.15	14.38
254	ADNI P19_05012014	2014-05-01	4381v6	348.69	44.31	23.22
255	ADNI P19_05012014	2014-05-01	4382v2	423.57	82.01	24.56
256	ADNI P19_05012014	2014-05-01	4382v6	428.23	83.35	25.57
257	ADNI P19_05012014	2014-05-01	4386v2	233.03	132.42	44.43
258	ADNI P19_05012014	2014-05-01	4386v6	212.43	134.61	32.97
259	ADNI P19_05012014	2014-05-01	4392v2	248.75	91.17	27.36
260	ADNI P19_05012014	2014-05-01	4392v6	244.30	69.81	30.45
261	ADNI P19_05012014	2014-05-01	4393v2	409.18	66.57	25.39
262	ADNI P19_05012014	2014-05-01	4393v6	392.18	70.08	32.19
263	ADNI P19_05012014	2014-05-01	4395v2	315.82	29.50	9.75
264	ADNI P19_05012014	2014-05-01	4395v6	314.71	26.69	14.33
265	ADNI P19_05012014	2014-05-01	4399v2	341.01	38.55	13.82
266	ADNI P19_05012014	2014-05-01	4399v6	318.25	41.60	39.30
267	ADNI P19_05012014	2014-05-01	4404v2	206.38	47.42	16.25
268	ADNI P19_05012014	2014-05-01	4404v6	197.32	54.03	20.73

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269	ADNI Pl10_05022014	2014-05-02	4405v2	182.05	128.37	34.62
270	ADNI Pl10_05022014	2014-05-02	4405v6	159.97	128.73	45.70
271	ADNI Pl10_05022014	2014-05-02	4410v2	345.24	81.87	25.93
272	ADNI Pl10_05022014	2014-05-02	4410v6	297.30	88.76	28.91
273	ADNI Pl10_05022014	2014-05-02	4415v2	108.32	234.96	50.21
274	ADNI Pl10_05022014	2014-05-02	4415v6	109.18	235.94	47.31
275	ADNI Pl10_05022014	2014-05-02	4417v2	199.08	49.43	14.37
276	ADNI Pl10_05022014	2014-05-02	4417v6	186.08	57.01	15.31
277	ADNI Pl10_05022014	2014-05-02	4422v2	311.68	87.73	21.87
278	ADNI Pl10_05022014	2014-05-02	4422v6	277.51	103.62	30.44
279	ADNI Pl10_05022014	2014-05-02	4427v2	420.15	50.10	15.95
280	ADNI Pl10_05022014	2014-05-02	4427v6	412.36	60.26	20.00
281	ADNI Pl10_05022014	2014-05-02	4430v2	183.01	170.56	32.27
282	ADNI Pl10_05022014	2014-05-02	4430v6	170.70	168.24	44.67
283	ADNI Pl10_05022014	2014-05-02	4447v2	203.42	123.04	35.40
284	ADNI Pl10_05022014	2014-05-02	4447v6	192.88	127.47	57.75
285	ADNI Pl10_05022014	2014-05-02	4453v2	445.14	60.68	16.29
286	ADNI Pl10_05022014	2014-05-02	4453v6	425.56	57.97	21.07
287	ADNI Pl10_05022014	2014-05-02	4467v2	181.53	224.45	60.38
288	ADNI Pl10_05022014	2014-05-02	4467v6	167.37	224.43	70.09
289	ADNI Pl10_05022014	2014-05-02	4468v2	451.78	49.75	13.40
290	ADNI Pl10_05022014	2014-05-02	4468v6	414.21	41.86	15.66
291	ADNI Pl10_05022014	2014-05-02	4489v2	350.06	52.30	13.50
292	ADNI Pl10_05022014	2014-05-02	4489v6	292.03	54.05	27.47
293	ADNI Pl10_05022014	2014-05-02	4491v2	380.29	37.84	17.08
294	ADNI Pl10_05022014	2014-05-02	4491v6	386.21	43.65	18.99
295	ADNI Pl10_05022014	2014-05-02	4494v2	100.19	120.51	34.53
296	ADNI Pl10_05022014	2014-05-02	4494v6	105.50	143.28	29.95
297	ADNI Pl10_05022014	2014-05-02	4496v2	454.59	79.54	24.77
298	ADNI Pl10_05022014	2014-05-02	4496v6	411.19	53.55	16.37
299	ADNI Pl10_05022014	2014-05-02	4505v2	379.21	75.78	18.14
300	ADNI Pl10_05022014	2014-05-02	4505v6	417.32	86.85	18.06
301	ADNI Pl10_05022014	2014-05-02	4507v2	191.69	74.45	31.63
302	ADNI Pl10_05022014	2014-05-02	4507v6	180.56	82.70	25.35
303	ADNI Pl11_05072014	2014-05-07	4516v2	364.28	57.29	14.22
304	ADNI Pl11_05072014	2014-05-07	4516v6	327.66	55.10	17.19
305	ADNI Pl11_05072014	2014-05-07	4526v2	106.06	123.87	27.21
306	ADNI Pl11_05072014	2014-05-07	4526v6	112.10	133.84	27.10
307	ADNI Pl11_05072014	2014-05-07	4785v2	429.31	41.80	14.43
308	ADNI Pl11_05072014	2014-05-07	4862v2	185.02	85.95	53.29
309	ADNI Pl11_05072014	2014-05-07	4959v2	159.69	41.85	19.95
310	ADNI Pl11_05072014	2014-05-07	4980v2	157.24	46.03	14.18
311	ADNI Pl11_05072014	2014-05-07	5016v2	166.86	241.59	42.30
312	ADNI Pl11_05072014	2014-05-07	5031v2	181.07	45.78	24.07
313	ADNI Pl11_05072014	2014-05-07	5057v2	347.62	35.46	12.31
314	ADNI Pl11_05072014	2014-05-07	5062v2	163.56	239.63	57.61
315	ADNI Pl11_05072014	2014-05-07	5075v2	349.62	33.89	16.35
316	ADNI Pl11_05072014	2014-05-07	5079v2	394.81	52.27	14.43
317	ADNI Pl11_05072014	2014-05-07	5090v2	164.80	63.43	21.31
318	ADNI Pl11_05072014	2014-05-07	5091v2	358.88	57.15	16.37
319	ADNI Pl11_05072014	2014-05-07	5093v2	355.48	54.06	18.07
320	ADNI Pl11_05072014	2014-05-07	5095v2	127.46	81.71	62.84
321	ADNI Pl11_05072014	2014-05-07	5096v2	169.09	56.22	21.44
322	ADNI Pl11_05072014	2014-05-07	5097v2	308.53	57.60	10.52

#	ID	Date	Sample	Abeta	Tau	p-Tau
323	ADNI Pl11_05072014	2014-05-07	5100v2	399.17	32.77	10.25
324	ADNI Pl11_05072014	2014-05-07	5102v2	283.82	68.24	23.88
325	ADNI Pl11_05072014	2014-05-07	5106v2	189.18	124.21	38.90
326	ADNI Pl11_05072014	2014-05-07	5109v2	186.22	46.85	16.21
327	ADNI Pl11_05072014	2014-05-07	5110v2	359.58	43.57	12.00
328	ADNI Pl11_05072014	2014-05-07	5112v2	197.11	77.54	32.33
329	ADNI Pl11_05072014	2014-05-07	5113v2	363.03	46.57	32.77
330	ADNI Pl11_05072014	2014-05-07	5118v2	360.71	29.83	17.51
331	ADNI Pl11_05072014	2014-05-07	5119v2	211.62	184.27	96.04
332	ADNI Pl11_05072014	2014-05-07	5120v2	170.93	57.71	21.67
333	ADNI Pl11_05072014	2014-05-07	5121v2	356.99	35.98	12.96
334	ADNI Pl11_05072014	2014-05-07	5123v2	211.44	113.88	34.01
335	ADNI Pl11_05072014	2014-05-07	5124v2	308.84	63.97	32.01
336	ADNI Pl11_05072014	2014-05-07	5125v2	306.73	35.25	19.52
337	ADNI Pl11_05072014	2014-05-07	5127v2	141.58	45.92	26.70
338	ADNI Pl11_05072014	2014-05-07	5129v2	226.55	46.91	39.59
339	ADNI Pl12_05082014	2014-05-08	5130v2	440.70	47.01	14.15
340	ADNI Pl12_05082014	2014-05-08	5135v2	260.83	50.09	15.29
341	ADNI Pl12_05082014	2014-05-08	5138v2	434.79	54.29	15.22
342	ADNI Pl12_05082014	2014-05-08	5140v2	281.71	39.32	30.67
343	ADNI Pl12_05082014	2014-05-08	5141v2	452.52	60.72	15.58
344	ADNI Pl12_05082014	2014-05-08	5142v2	271.94	86.57	22.83
345	ADNI Pl12_05082014	2014-05-08	5147v2	374.41	61.21	25.05
346	ADNI Pl12_05082014	2014-05-08	5148v2	319.25	88.67	21.40
347	ADNI Pl12_05082014	2014-05-08	5150v2	386.98	55.54	30.97
348	ADNI Pl12_05082014	2014-05-08	5153v2	482.15	66.41	14.58
349	ADNI repeats_05142014	2014-05-14	5154v2	317.33	53.03	14.02
350	ADNI Pl12_05082014	2014-05-08	5157v2	443.80	45.79	14.50
351	ADNI Pl12_05082014	2014-05-08	5159v2	369.69	42.98	13.23
352	ADNI Pl12_05082014	2014-05-08	5160v2	366.40	39.91	13.32
353	ADNI Pl12_05082014	2014-05-08	5162v2	346.88	62.68	12.78
354	ADNI Pl12_05082014	2014-05-08	5165v2	222.60	208.87	42.01
355	ADNI Pl12_05082014	2014-05-08	5167v2	432.17	61.42	22.10
356	ADNI Pl12_05082014	2014-05-08	5169v2	345.30	74.27	24.49
357	ADNI Pl12_05082014	2014-05-08	5170v2	435.86	52.03	13.74
358	ADNI Pl12_05082014	2014-05-08	5171v2	399.31	61.86	15.17
359	ADNI Pl12_05082014	2014-05-08	5175v2	428.34	45.88	11.85
360	ADNI Pl12_05082014	2014-05-08	5176v2	236.13	55.39	18.36
361	ADNI Pl12_05082014	2014-05-08	5177v2	349.90	87.31	27.98
362	ADNI Pl12_05082014	2014-05-08	5178v2	411.94	50.30	18.60
363	ADNI Pl12_05082014	2014-05-08	5185v2	185.33	130.13	70.80
364	ADNI Pl12_05082014	2014-05-08	5187v2	184.81	108.46	32.32
365	ADNI Pl12_05082014	2014-05-08	5193v2	327.57	37.69	10.24
366	ADNI Pl12_05082014	2014-05-08	5194v2	370.32	32.08	14.77
367	ADNI Pl12_05082014	2014-05-08	5195v2	452.01	77.00	17.44
368	ADNI Pl12_05082014	2014-05-08	5196v2	146.74	65.63	18.19
369	ADNI Pl12_05082014	2014-05-08	5197v2	334.15	39.35	12.61
370	ADNI Pl12_05082014	2014-05-08	5198v2	308.26	35.83	17.20
371	ADNI Pl12_05082014	2014-05-08	5199v2	171.13	40.61	21.80
372	ADNI Pl12_05082014	2014-05-08	5200v2	379.85	31.07	13.45
373	ADNI Pl12_05082014	2014-05-08	5202v2	184.06	59.23	26.97
374	ADNI Pl12_05082014	2014-05-08	5203v2	330.83	45.58	14.99
375	ADNI Pl13 and repeats_05092014	2014-05-09	5204v2	246.87	91.08	30.28
376	ADNI Pl13 and repeats_05092014	2014-05-09	5205v2	190.39	130.25	45.63

#	ID	Date	Sample	Abeta	Tau	p-Tau
377	ADNI repeats_05142014	2014-05-14	5207v2	364.70	62.65	17.24
378	ADNI repeats_05142014	2014-05-14	5208v2	403.91	91.61	26.89
379	ADNI Pl13 and repeats_05092014	2014-05-09	5209v2	333.92	65.19	24.60
380	ADNI repeats_05142014	2014-05-14	5210v2	190.54	107.25	23.37
381	ADNI Pl13 and repeats_05092014	2014-05-09	5213v2	473.91	71.45	17.81
382	ADNI Pl13 and repeats_05092014	2014-05-09	5214v2	316.06	46.44	14.46
383	ADNI Pl13 and repeats_05092014	2014-05-09	5218v2	459.77	129.95	19.94
384	ADNI Pl13 and repeats_05092014	2014-05-09	5219v2	277.90	101.25	21.66
385	ADNI Pl13 and repeats_05092014	2014-05-09	5222v2	390.86	52.55	17.89
386	ADNI Pl13 and repeats_05092014	2014-05-09	5224v2	222.81	75.39	39.67
387	ADNI Pl1_04082014	2014-04-08	5227v2	157.65	110.80	42.00
388	ADNI Pl13 and repeats_05092014	2014-05-09	5228v2	402.13	51.22	15.63
389	ADNI Pl13 and repeats_05092014	2014-05-09	5230v2	224.70	66.67	35.10
390	ADNI Pl13 and repeats_05092014	2014-05-09	5231v2	220.93	91.42	23.97
391	ADNI Pl13 and repeats_05092014	2014-05-09	5234v2	189.87	32.14	19.65
392	ADNI Pl13 and repeats_05092014	2014-05-09	5235v2	414.04	49.92	13.42
393	ADNI Pl13 and repeats_05092014	2014-05-09	5236v2	254.79	120.04	24.83
394	ADNI Pl1_04082014	2014-04-08	5237v2	234.42	111.21	34.43
395	ADNI Pl1_04082014	2014-04-08	5241v2	265.87	95.33	19.46
396	ADNI Pl1_04082014	2014-04-08	5242v2	297.84	79.40	14.45
397	ADNI Pl1_04082014	2014-04-08	5243v2	392.99	44.80	25.99
398	ADNI Pl1_04082014	2014-04-08	5244v2	342.97	37.35	14.02
399	ADNI Pl1_04082014	2014-04-08	5248v2	244.22	34.49	9.78
400	ADNI Pl1_04082014	2014-04-08	5251v2	167.76	214.08	66.39
401	ADNI Pl1_04082014	2014-04-08	5252v2	144.87	67.55	30.35
402	ADNI Pl1_04082014	2014-04-08	5253v2	392.35	50.76	17.57
403	ADNI Pl1_04082014	2014-04-08	5256v2	200.26	91.71	24.01
404	ADNI Pl1_04082014	2014-04-08	5258v2	235.70	71.18	20.65
405	ADNI Pl1_04082014	2014-04-08	5259v2	337.61	43.86	16.45
406	ADNI Pl1_04082014	2014-04-08	5261v2	213.62	46.64	21.92
407	ADNI Pl1_04082014	2014-04-08	5263v2	183.56	116.75	38.44
408	ADNI Pl1_04082014	2014-04-08	5265v2	153.98	55.13	18.50
409	ADNI Pl1_04082014	2014-04-08	5266v2	433.90	59.70	20.07
410	ADNI Pl1_04082014	2014-04-08	5267v2	220.83	92.66	33.02
411	ADNI Pl1_04082014	2014-04-08	5269v2	213.35	29.88	24.01
412	ADNI Pl1_04082014	2014-04-08	5271v2	442.77	76.63	15.82
413	ADNI Pl1_04082014	2014-04-08	5272v2	334.55	67.35	14.04
414	ADNI Pl1_04082014	2014-04-08	5275v2	181.80	128.91	108.70
415	ADNI Pl1_04082014	2014-04-08	5277v2	190.63	72.05	42.61
416	ADNI Pl1_04082014	2014-04-08	5278v2	258.11	75.72	31.34
417	ADNI Pl1_04082014	2014-04-08	5279v2	336.67	38.14	12.53
418	ADNI Pl1_04082014	2014-04-08	5280v2	264.08	26.38	13.17
419	ADNI Pl1_04082014	2014-04-08	5282v2	193.73	41.14	19.76
420	ADNI Pl1_04082014	2014-04-08	5283v2	191.48	58.95	20.92
421	ADNI Pl1_04082014	2014-04-08	5285v2	288.01	28.19	15.17
422	ADNI Pl1_04082014	2014-04-08	5287v2	358.77	59.22	25.34
423	ADNI Pl1_04082014	2014-04-08	5288v2	389.68	59.25	21.73
424	ADNI Pl1_04082014	2014-04-08	5289v2	370.51	41.17	28.26
425	ADNI Pl1_04082014	2014-04-08	5290v2	176.03	123.88	42.33
426	ADNI Pl1_04082014	2014-04-08	5292v2	225.64	94.93	52.67
427	ADNI Pl1_04082014	2014-04-08	5295v2	156.18	24.42	8.89
428	ADNI Pl1_04082014	2014-04-08	5296v2	285.24	40.34	17.94