Macro cmd	0x30	0x31	0x32	0x33	0x35	0x36	0x37	0x45	0x46	0x47	0x50	0x50	0x50	0x53	0x55	0x56	0x60	0x65	0x66	0x71	0x72	0x74	0x76	0x80	0x81	0x84	0x86
Macro ID	0x410	0x411	0x412	0x413	0x415	0x416	0x417	0x525	0x516	0x517	0x610	0x611	0x612	0x613	0x615	0x616	0x710	0x715	0x716	0x801	0x802	0x814	0x816	0x910	0x901	0x914	0x926
Notes	From 0x914 Use 0x412	410 HF EfNi	0x412 cad2 EfNi	0x411 16b EfNi	417 /\ NiEf	From 0x410 EfNi	416 inv. NiEf		NeNi noHF	NiNi noHF	525 opt. Use 0x611	610 NiNi NeNi	610 NiNi NeNi	610 NeNe NeNe	417 Ne NeEf	416 Ne EfNe	910 inv. EE, swp2	0x716 LH LDL Ef snap	0x703 Ef LDL Ef cont	From 0x503	From 0x504	805 lessHF	814 N+	EoM EE, swp1	From 0x624	From 0x624	From 0x624
Purpose	EN, swp	EN, swp, HF	EN, swp, HF	EN, swp, HF	NE, swp	EN, swp	NE, swp	N, HF, swp	N, HF, swp	N, HF, swp	N, HF, swp	N, HF, swp	N, HF, swp	N, HF, swp	NE, swp	EN, swp	E, HF, swp	LDL, Vsc, Hf	LDL, Vsc, Hf	Vsc, HF	Vsc, HF	DL,N,HF,Csw	DL,N,HF,Csw	E, HF, swp	N, HF, swp	N, HF, swp	N, HF, swp
TM rate	BM	BM	BM	BM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	BM	NM	NM	NM	BM	NM	NM
Bias mode	EN	EN	EN	EN	NE	EN	NE	NN	NN	NN	NN	NN	NN	NN	NE	EN	NN	E-	E-	EE	EE	N-	N-	NN	NN	NN	NN
Fix bias P1	float	float	float	float	-30V	float	-30V	+30 V	+30 V	-30 V	+30 V	+30 V	-30 V	+30 V	+30V	float	float	float	float	float	float	-30 V	+30 V	float	+30 V	-30 V	+30 V
Fix bias P2	-30V	-30V	-30V	-30V	float	-30V	float	-17 V	-30 V	-30 V	-30 V	-30 V	-30 V	+30 V	float	+30V	float	MIP	MIP	float	float	MIP	MIP	float	+30 V	-30 V	-30 V
Gain/bias P1	float	float	float	float	hi	float	hi	hi	hi	hi	hi	hi	hi	hi	hi	float	float	float	float	float	float	hi	hi	hi/float	hi	hi	hi
Gain/bias P2	hi	hi	hi	hi	float	hi	float	hi	hi	hi	hi	hi	hi	hi	float	hi	hi/float	-	-	float	float	-	-	float	hi	hi	hi
LF continuous data (ADC20)																											
Sampled data	V1, I2	V1, I2	V1, I2	V1, I2	I1,V2	V1, I2	I1,V2	I1, I2	I1, I2	I1, I2	I1, I2	I1, I2	I1, I2	I1, I2	I1,V2	V1, I2	V1,V2	V1	V1	V1, V2	V1, V2	I1	I1	V1,V2	I1, I2	I1, I2	I1, I2
Number of signals	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	1	2	2	1	1	2	2	2	2
Downsampling	1	1	1	1	128	128	128	128	64	64	128	128	128	128	128	128	256	4	32	128	1	32	32	256	1	1	1
fsamp [Hz]	*57,80*	*57,80*	*57,80*	*57,80*	*0,45*	*0,45*	*0,45*	*0,45*	*0,90*	*0,90*	*0,45*	*0,45*	*0,45*	*0,45*	*0,45*	*0,45*	*57,80*	*14,45*	*1,81*	*0,45*	*57,80*	*1,81*	*1,81*	*57,80*	*57,80*	*57,80*	*57,80*
Bits/sample transmitted	20	20	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
Samples/AQP/probe	1632	1632	1798	1798	14	14	14	14	27	27	14	14	14	14	14	14	7	83	55	14	1798	55	55	7	1798	1798	1798
																	2x120 lastAQP							2x120 lastAQP			
HF wave snapshots (ADC16)																											
Sampled data	-	V1, I2	V1, I2	V1, I2	V2	V1	V2	I1, I2	I1, I2	I1, I2	I1	I1	I2	I1	V2	V1	V1,V2	V1	V1	V1,V2	V1, V2	I1	I1	V1,V2	I1, I2	I1, I2	I1, I2
Number of signals	0	2	2	2	1	1	1	2	2	2	1	1	1	1	1	1	2	1	1	2	2	1	1	2	2	2	2
Downsampling	1	8	8	8	8	8	8	1	1	1	8	8	8	8	8	8	8	1	1	1	1	1	1	8	1	1	1
fsamp [Hz]	*18750*	*2344*	*2344*	*2344*	*2344*	*2344*	*2344*	*18750*	*18750*	*18750*	*2344*	*2344*	*2344*	*2344*	*2344*	*2344*	*2344*	*18750*	*18750*	*18750*	*18750*	*18750*	*18750*	*2344*	*18750*	*18750*	*18750*
Samples	0	352	672	1072	160	160	160	96	16	16	176	176	176	176	160	160	64	80	160	192	432	16	16	64	1600	1600	1600
Cadency [AQPs]	1	3	2	3	5	5	5	5	5	5	5	5	5	5	5	5	5	3	3	5	1	5	5	5	5	5	5
Cadency [s]	*32*	*96*	*64*	*96*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*96*	*96*	*160*	*32*	*160*	*160*	*160*	*160*	*160*	*160*
Coarse sweeps (ADC16)																											
Probes	P2	P2	P2	P2	P1	P2	P1	P1, P2	P1, P2	P1, P2	P1, P2	P1, P2	P1, P2	P1, P2	P1	P2	P2	.	.	.	.	P1	P1	P1	P1, P2	P1, P2	P1, P2
Number of signals	1	1	1	1	1	1	1	2	2	2	2	2	2	2	1	1	1	0	0	0	0	1	1	1	2	2	2
Shape	/	/\	/	/	/\	/	/	/	/	/	/	/	/	/	/	/	/					/	/	/	/	/	/\
Directions (1 or 2)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			1	1	1	1	1	2
Cadency [AQPs]	1	3	2	3	5	5	5	5	5	5	5	5	5	5	5	5	5	1	1	1	1	5	5	5	5	5	5
Cadency [s]	*32*	*96*	*64*	*96*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*160*	*32*	*32*	*32*	*32*	*160*	*160*	*160*	*160*	*160*	*160*
Range [V]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-17, +31]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-30, +30]	[-28, +28]					[-30, 30]	[-30, 30]	[-28, +28]	[-30, +30]	[-30, +30]	[-30, +30]
Step [V]	0,25	0,5	0,25	0,25	0,5	0,25	0,25	0,5	0,5	0,5	0,5	0,5	0,5	0,5	0,25	0,25	0,5					0,25	0,25	0,5	0,25	0,25	0,5
Number of steps	240	240	240	240	240	240	240	96	112	112	112	112	112	112	240	240	112					240	240	112	240	240	240
Plateau duration [cycles]	64	128	64	64	128	64	64	256	128	128	64	64	64	64	64	64	64					64	64	64	256	256	512
Plateau duration [ms]	3,4	6,8	3,4	3,4	6,8	3,4	3,4	13,7	6,8	6,8	3,4	3,4	3,4	3,4	3,4	3,4	3,4	0,0	0,0	0,0	0,0	3,4	3,4	3,4	13,7	13,7	27,3
Downsampling	64	128	64	64	128	64	64	256	128	128	64	64	64	64	64	64	64	1	1	1	1	64	64	64	256	256	512
Samples per plateau	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*1*	*0*	*0*	*0*	*0*	*1*	*1*	*1*	*1*	*1*	*1*
Samples/sweep/probe	*247*	*247*	*247*	*247*	*247*	*247*	*247*	*103*	*119*	*119*	*116*	*116*	*116*	*116*	*247*	*247*	*119*	*6*	*6*	*6*	*6*	*247*	*247*	*119*	*247*	*247*	*247*
Sweep duration [s]	*0,84*	*1,69*	*0,84*	*0,84*	*1,69*	*0,84*	*0,84*	*1,41*	*0,81*	*0,81*	*0,40*	*0,40*	*0,40*	*0,40*	*0,84*	*0,84*	*0,41*	*0,00*	*0,00*	*0,00*	*0,00*	*0,84*	*0,84*	*0,41*	*3,37*	*3,37*	*6,74*
Fine sweeps (ADC16)																											
Probes	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.
Number of signals	0	0	0	0	0	0	0	0	0	0	.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shape											141206																
Cadency [AQPs]	1	1	1	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Cadency [s]	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*14,0*	*32,0*	*32*	*32,0*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*	*32*
Offset [V]											*19,2*																
Range [V]											*20,6*																
Step [mV]											*0,0*																
Number of steps											***53,8***																
Plateau duration [cycles]																											
Downsampling																											
Samples per plateau																											
Samples/sweep/probe																						*0*	*0*				
First upload	160305	160804	160804	160804	160804	160715	160715	141206	160421	160421	160715	160715	160804	160715	160715	160715	constr	160804	160804	150520	150520	160421	160421	160715	150520	150731	160306
TM LF [bps]	*2040,0*	*2040,0*	*1798,0*	*1798,0*	*14,0*	*14,0*	*14,0*	*14,0*	*27,0*	*27,0*	*14,0*	14,0	14,0	*14,0*	*14,0*	*14,0*	*28,9*	*41,5*	*27,5*	*14,0*	*1798,0*	*27,5*	*27,5*	*28,9*	*1798,0*	*1798,0*	*1798,0*
TM HF [bps]	*0,0*	*117,3*	*336,0*	*357,3*	*16,0*	*16,0*	*16,0*	*19,2*	*3,2*	*3,2*	*17,6*	17,6	17,6	*17,6*	*16,0*	*16,0*	*12,8*	*13,3*	*26,7*	*38,4*	*432,0*	*1,6*	*1,6*	*12,8*	*320,0*	*320,0*	*320,0*
TM CSwp [bps]	*123,5*	*41,2*	*61,8*	*41,2*	*24,7*	*24,7*	*24,7*	*20,6*	*23,8*	*23,8*	*23,2*	23,2	23,2	*23,2*	*24,7*	*24,7*	*11,9*	*0,0*	*0,0*	*0,0*	*0,0*	*24,7*	*24,7*	*11,9*	*49,4*	*49,4*	*49,4*
TM FSwp [bps]	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	0,0	0,0	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*	*0,0*
TM total [bps]	***2163,5***	***2198,5***	***2195,8***	***2196,5***	***54,7***	***54,7***	***54,7***	***53,8***	***54,0***	***54,0***	***54,8***	**54,8**	**54,8**	***54,8***	***54,7***	***54,7***	***53,6***	***54,8***	***54,2***	***52,4***	***2230,0***	***53,8***	***53,8***	***53,6***	***2167,4***	***2167,4***	***2167,4***

Field colour:
Green: currently prefered non-LDL science macros
Orange: currently prefered LDL science macros
Yellow: maintenance, diagnostics, etc
White: superseded science macros
Blue: ideas