Appendix I. – DLCA Power Measurement / 5G NR Call Box Setup

1. LTE Down-link Carrier Aggregation Conducted Powers

SAR test exclusion for LTE downlink Carrier Aggregation is determined by power measurements according to the number component carriers(CCs) supported by test product implementation. For those configurations required by April 2018 TCBC Workshop notes, conducted power measurements with LTE Carrier Aggregation(CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s)(SCC) on the downlink only.

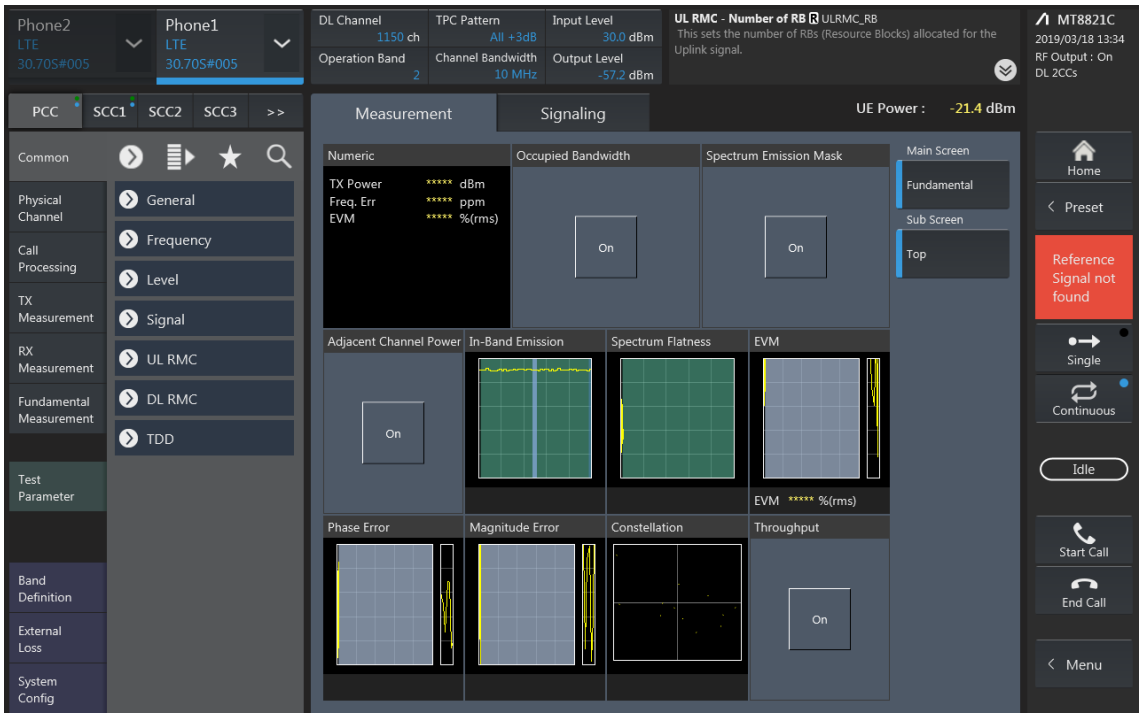
Downlink Carrier aggregation:

1. This device only supports downlink carrier aggregation. For every supported combination of downlink carrier aggregation, power measurements were performed with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band.
2. All control and acknowledge data is sent on uplink channels that operate identical to specifications when downlink carrier aggregation is inactive.
3. Per FCC KDB publication 941225 D05A v01r02, Section C)3)b)ii), PCC uplink channel was selected at downlink carrier aggregation combinations. The downlink PCC channel was paired with the selected PCC uplink channel according to normal configurations without carrier aggregation.
4. For continuous intra-band carrier aggregation, the downlink channel spacing between the component carriers was set to multiple of 300kHz less than the nominal channel spacing defined in section 5.4.1A of 3GPP TS 36.521.
5. For non-continuous intra-band carrier aggregation, the downlink channel spacing between the component carriers was set to be larger than the nominal channel spacing and provided maximum separation between the component carriers.
6. All selected downlink channels remained fully within the downlink transmission band of the respective component carrier.

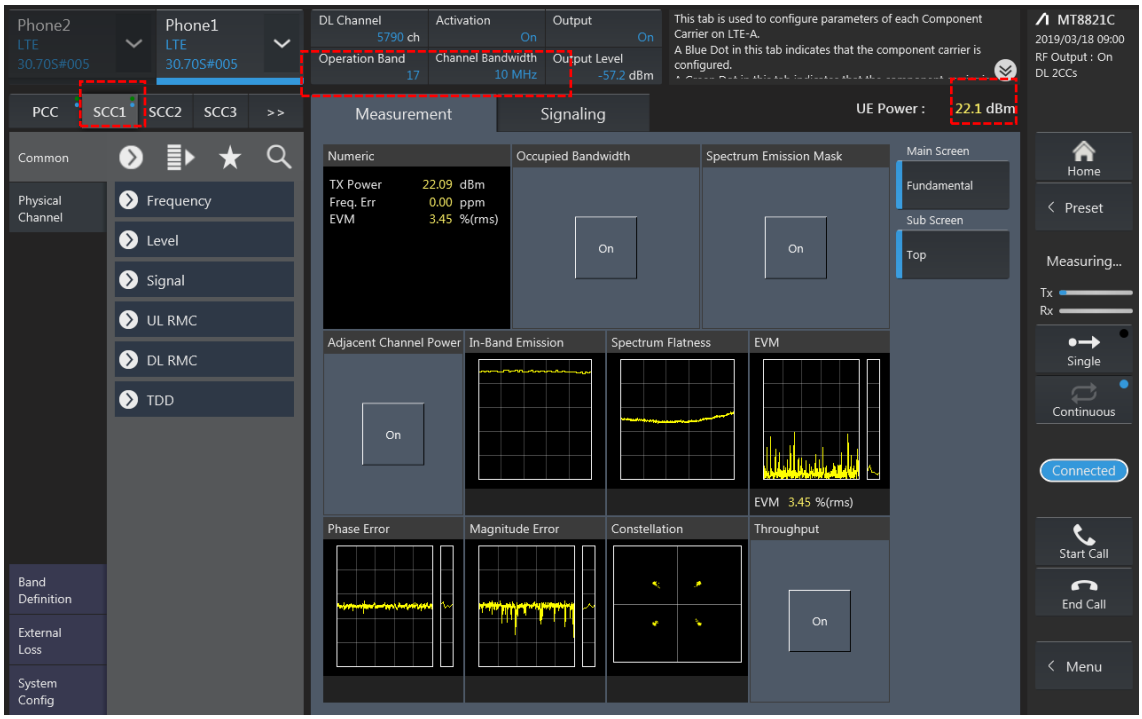
Power Measurement setup

LTE Down Link 2CA Call Setup

PCC Setting (Channel/ RB/ BW/ Modulation)



SCC Setting (Channel/ RB/ BW/ Modulation) and call Connection

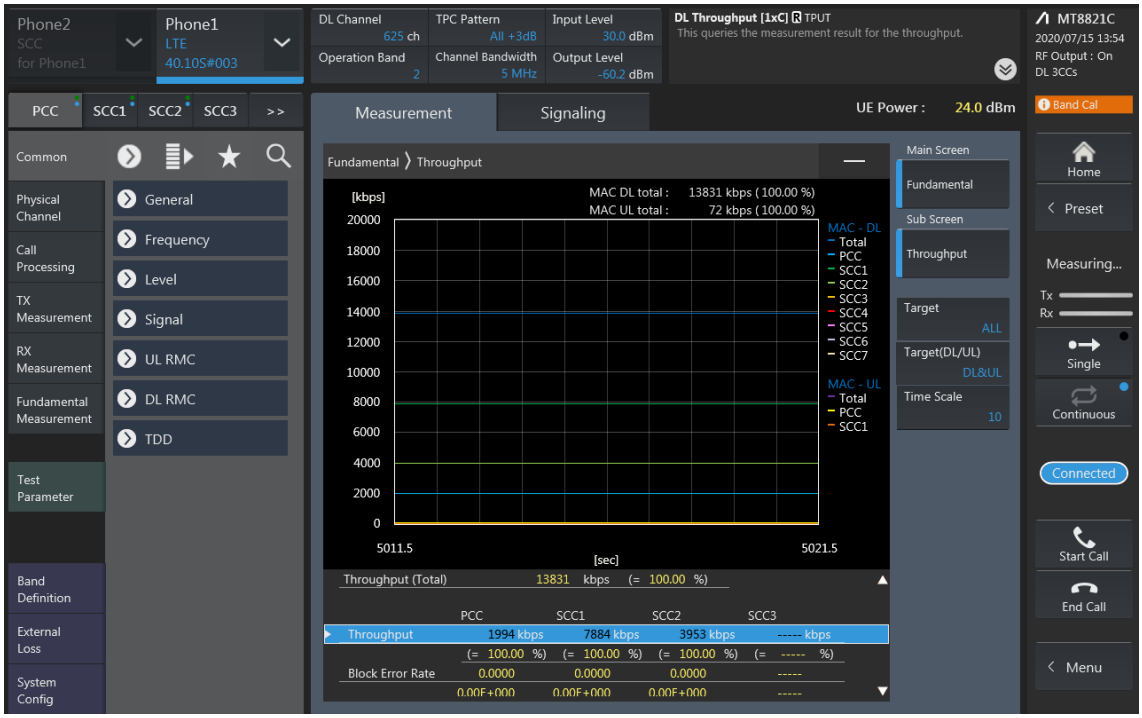


2CA Downlink Carrier aggregation Maximum conducted Powers

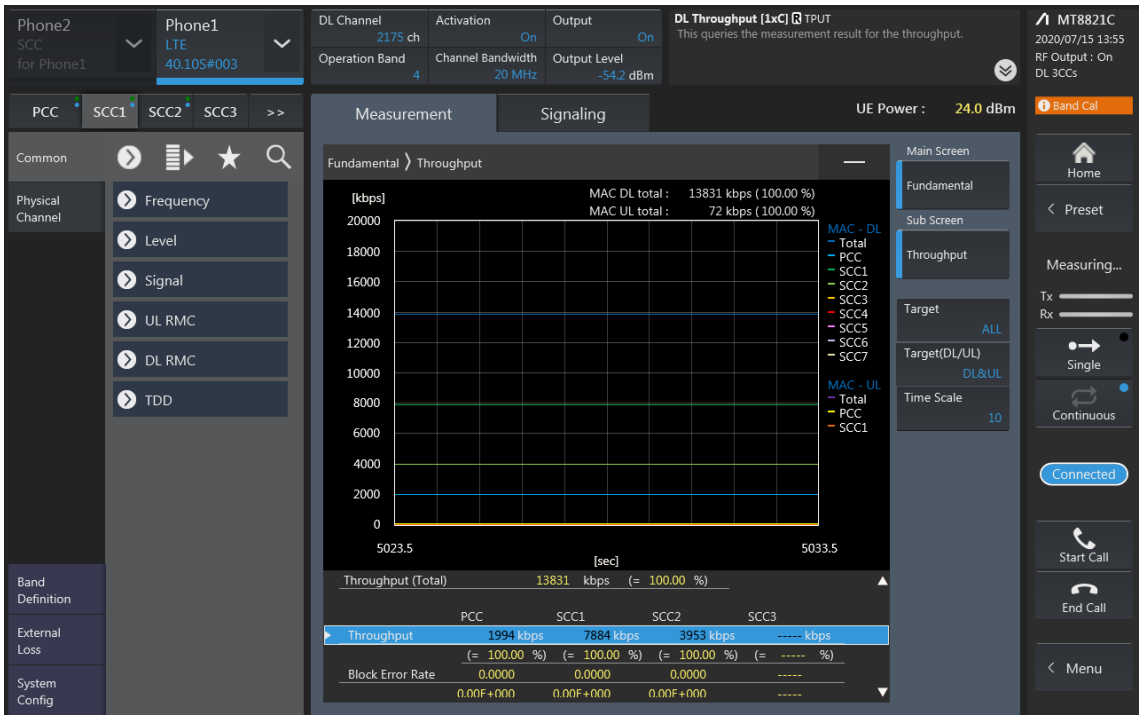
Combination	PCC									SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
4A-48A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55990	3625	24.12	24.20	0.08
12A-48A	12	5	23095	707.5	5095	737.5	QPSK	1	12	48	20	55990	3625	24.79	24.72	-0.07
25A-25A	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	25	10	8090	1935	24.56	24.45	-0.11
25A-25A	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	25	20	8140	1940	24.56	24.53	-0.03
25A-41A	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40620	2593	24.56	24.57	0.01
41A-41A	41	20	40185	2549.5	40185	2549.5	QPSK	1	0	41	20	40620	2593	24.43	24.45	0.02
66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	71	20	68761	634.5	24.4	24.40	0.00
66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	66	20	66786	2145	24.4	24.44	0.04
12A-46A	12	5	23095	707.5	5095	737.5	QPSK	1	12	46	20	50665	5537.5	24.79	24.87	0.08
48A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	48	20	55990	3625	24.4	24.33	-0.07

LTE Down Link 3CA Call Setup

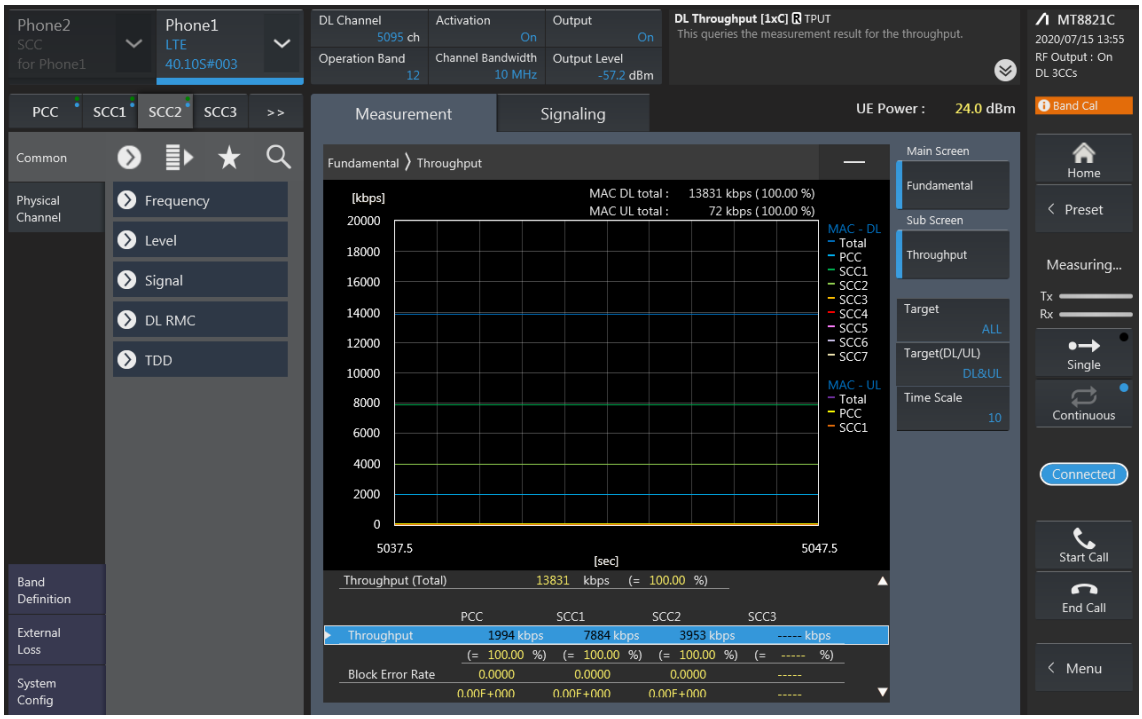
PCC Setting (Channel/ RB/ BW/ Modulation)



SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection

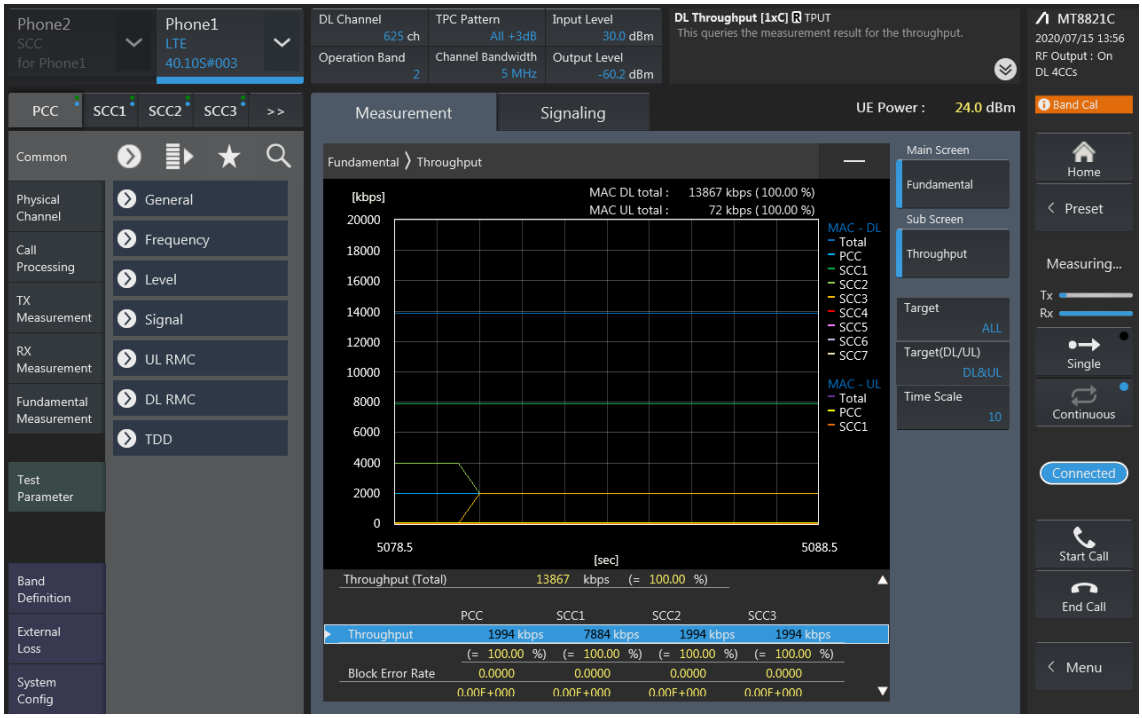


3CA Downlink Carrier aggregation conducted Powers

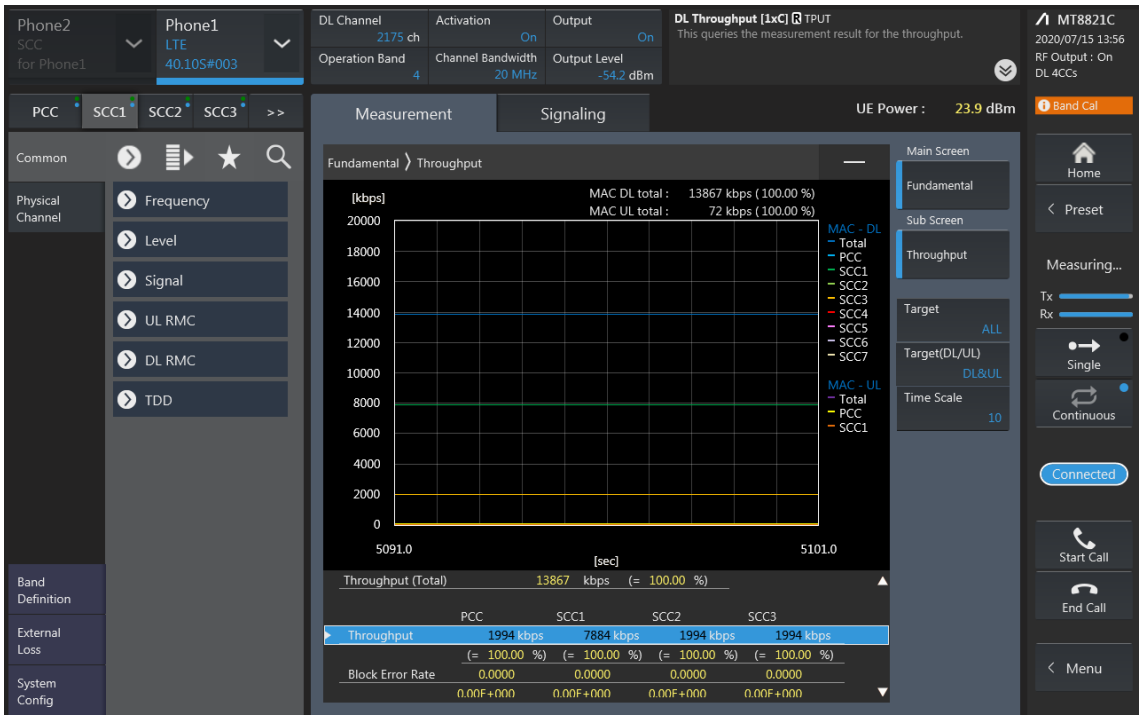
Combination	PCC									SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-2A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	71	20	68761	634.5	24.57	24.44	-0.13
2A-2A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	2	20	1100	1980	24.4	24.23	-0.17
2A-4A-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2175	2132.5	13	10	5230	751	24.57	24.40	-0.17
2A-4A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	900	1960	13	10	5230	751	24.12	24.18	0.06
2A-4A-13A	13	10	23230	782	5230	751	QPSK	1	24	4	20	2175	2132.5	2	20	900	1960	24.63	24.53	-0.10
4A-4A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	13	10	5230	751	24.4	24.30	-0.10
4A-4A-13A	13	10	23230	782	5230	751	QPSK	1	24	4	20	2050	2120	4	20	2300	2145	24.63	24.68	0.05
4A-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	71	20	68786	637	24.12	24.03	-0.09
4A-4A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	24.4	24.22	-0.18
4A-48C	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55990	3625	48	20	56188	3644.8	24.12	24.01	-0.11
12A-48C	12	5	23095	707.5	5095	737.5	QPSK	1	12	48	20	55990	3625	48	20	56188	3644.8	24.79	24.87	0.08
25A-41C	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40620	2593	41	20	40818	2612.8	24.56	24.59	0.03
41A-41C	41	20	40185	2549.5	40185	2549.5	QPSK	1	0	41	20	41490	2680	41	20	41292	2660.2	24.43	24.50	0.07
2A-2A-46A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50690	5540	24.57	24.39	-0.18
4A-46A-46A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	46890	5160	46	20	54340	5905	24.12	24.18	0.06
4A-46C	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50692	5540.2	46	20	50890	5560	24.12	23.95	-0.17
13A-46A-46A	13	10	23230	782	5230	751	QPSK	1	24	46	20	46890	5160	46	20	54340	5905	24.63	24.50	-0.13
2A-5A-46A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2600	889	46	20	50690	5540	24.57	24.57	0.00
2A-5A-46A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	1100	1980	46	20	50690	5540	24.32	24.29	-0.03
2A-46A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	46	20	50690	5540	24.57	24.40	-0.17
2A-46A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	1100	1980	46	20	50690	5540	24.4	24.40	0.00
5A-46A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66786	2165	46	20	50690	5540	24.32	24.35	0.03
5A-46A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	10	2600	889	46	20	50690	5540	24.4	24.50	0.10
2A-7A-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	13	10	5230	751	24.57	24.55	-0.02
2A-7A-13A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	13	10	5230	751	23.74	23.57	-0.17
2A-7A-13A	13	10	23230	782	5230	751	QPSK	1	24	7	15	3100	2655	2	20	1100	1980	24.63	24.51	-0.12
2A-7A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.63	0.06
2A-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.81	0.07
2A-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.4	24.5	0.10

LTE Down Link 4CA Call Setup

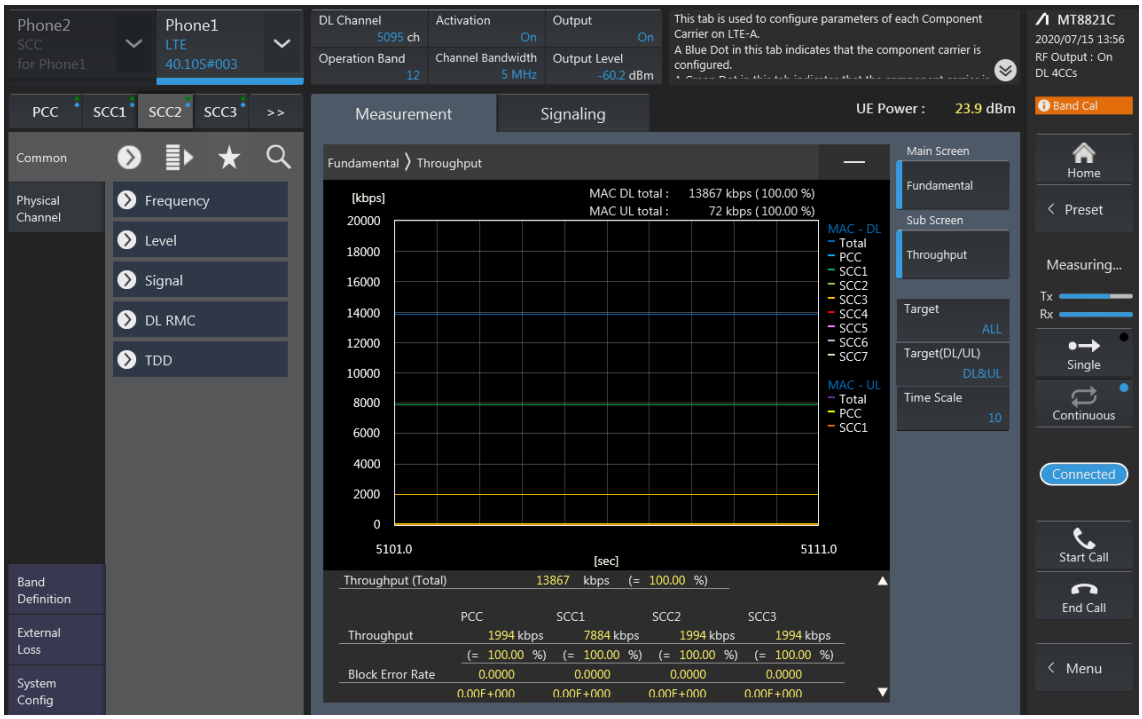
PCC Setting (Channel/ RB/ BW/ Modulation)



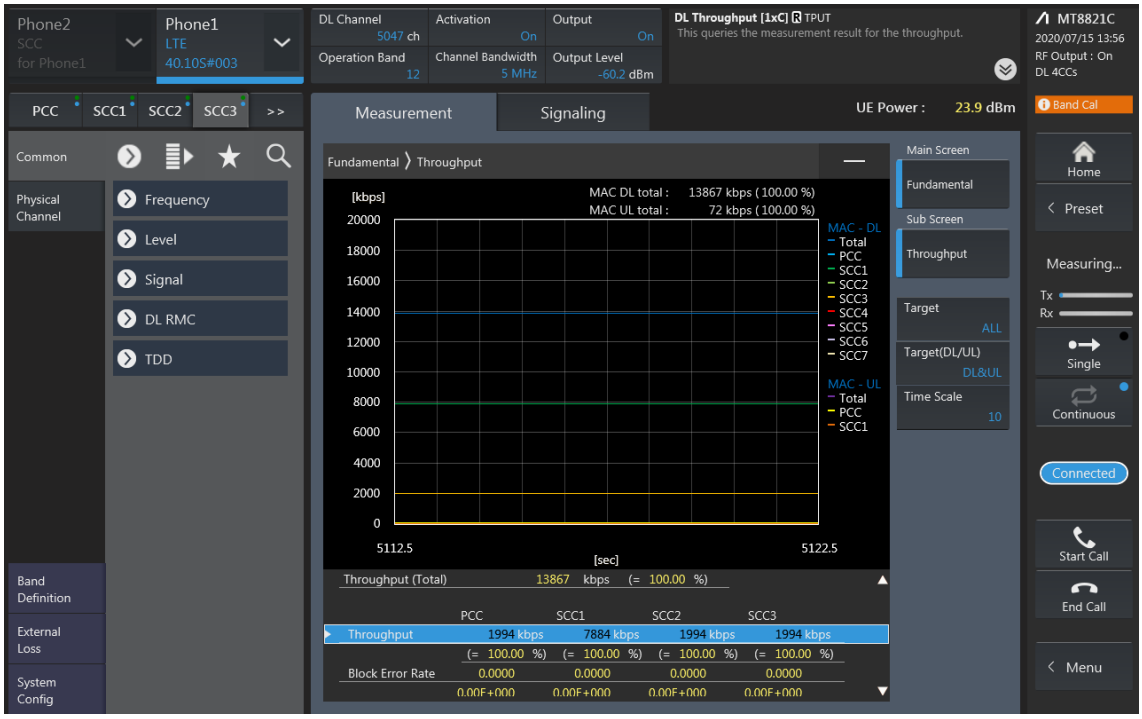
SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC3 Setting (Channel/ RB/ BW/ Modulation) and call Connection



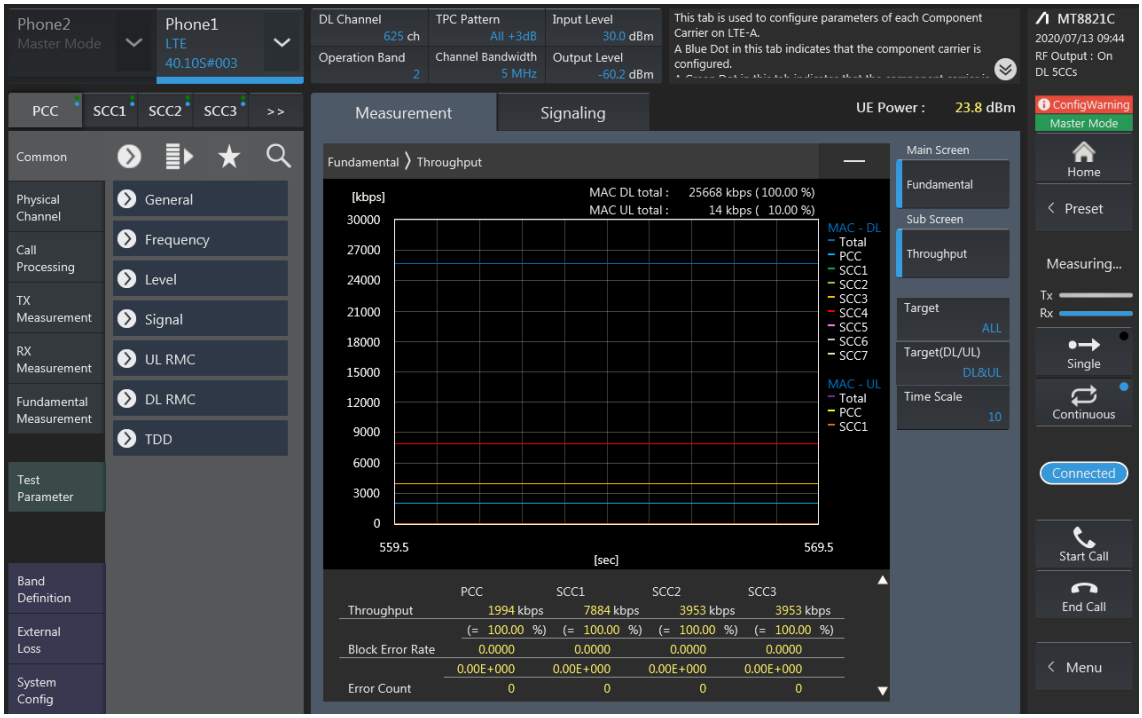
4CA Downlink Carrier aggregation conducted Powers

Combination	PCC									SCC				SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	C DLChan	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-2A-4A-4A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	4	20	2120	4	20	2300	2145	24.57	24.41	-0.16
2A-2A-4A-4A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145	2	20	700	1940	2	20	1100	1980	24.12	24.2	0.08
2A-2A-4A-4A	4	5	20375	1752.5	2375	2152.5	QPSK	1	12	4	20	2050	2120	2	20	700	1940	2	20	1100	1980	24.06	24.16	0.1
2A-2A-4A-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	4	20	2175	2132.5	5	10	2525	881.5	24.57	24.6	0.03
2A-2A-4A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.12	24.07	-0.05
2A-2A-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940	2	20	1100	1980	4	20	2175	2132.5	24.32	24.17	-0.15
2A-2A-4A-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	4	20	2175	2132.5	12	10	5095	707.5	24.57	24.52	-0.05
2A-2A-4A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940	2	20	1100	1980	12	10	5095	707.5	24.12	24.2	0.08
2A-2A-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940	2	20	1100	1980	4	20	2175	2132.5	24.79	24.61	-0.18
2A-2A-4A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	4	20	2175	2132.5	71	20	68761	634.5	24.57	24.46	-0.11
2A-2A-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940	2	20	1100	1980	71	20	68761	634.5	24.12	24.08	-0.04
2A-2A-4A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	2	20	1100	1980	4	20	2175	2132.5	24.4	24.47	0.07
2A-2A-29A-30A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	30	10	9820	2355	24.57	24.46	-0.11
2A-2A-29A-30A	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	2	20	1100	1980	29	10	9715	722.5	22.63	22.49	-0.14
2A-2A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	30	10	9820	2355	66	20	66786	2165	24.57	24.41	-0.16
2A-2A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	2	20	1100	1980	66	20	66786	2165	22.63	22.66	0.03
2A-2A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	30	10	9820	2355	24.4	24.28	-0.12
2A-2A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	20	66536	2140	66	20	67036	2190	24.57	24.37	-0.2
2A-2A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	2	20	1100	1980	24.4	24.46	0.06
2A-2A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	10	66486	2135	66	10	66585	2144.9	24.57	24.47	-0.1
2A-2A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	2	20	700	1940	2	20	1100	1980	24.38	24.21	-0.17
2A-2A-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.57	24.56	-0.01
2A-2A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	700	1940	2	20	1100	1980	24.4	24.25	-0.15
2C-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	1058	1975.8	66	20	66536	2140	66	20	67036	2190	24.57	24.66	0.09
2C-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	1058	1975.8	2	5	1175	1987.5	24.4	24.48	0.08
2A-2A-66A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	20	66786	2165	71	20	68761	634.5	24.57	24.6	0.03
2A-2A-66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	71	20	68761	634.5	24.4	24.23	-0.17
2A-2A-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	2	20	1100	1980	66	20	66838	2170.2	24.4	24.39	-0.01
2A-4A-4A-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	5	10	2525	881.5	24.57	24.51	-0.06
2A-4A-4A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	24.06	23.86	-0.2
2A-4A-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	4	20	2050	2120	4	20	2300	2145	2	20	700	1940	24.32	24.14	-0.18
2A-4A-4A-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	12	10	5095	707.5	24.57	24.61	0.04
2A-4A-4A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	24.12	24.18	0.06
2A-4A-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	2	20	700	1940	24.79	24.7	-0.09
2A-4A-5B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2300	2145	5	5	2425	871.5	5	10	2497	878.7	24.57	24.5	-0.07
2A-4A-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940	5	5	2425	871.5	5	10	2497	878.7	24.12	24.05	-0.07
2A-4A-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	2	20	700	1940	4	20	2300	2145	24.32	24.32	0
2A-5A-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	48	20	55990	3625	66	20	66786	2165	24.57	24.43	-0.14
2A-5A-48A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940	48	20	55990	3625	66	20	66786	2165	24.32	24.32	0
2A-5A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	48	20	55990	3625	2	20	700	1940	24.4	24.3	-0.1
2A-7A-7A-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	2850	2630	7	20	3350	2680	13	5	5230	751	24.57	24.43	-0.14
2A-7A-7A-13A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	2850	2630	2	20	700	1940	13	5	5230	751	23.74	23.6	-0.14
2A-7A-7A-13A	13	5	23230	782	5230	751	QPSK	1	12	7	20	2850	2630	7	20	3350	2680	2	20	700	1940	24.69	24.56	-0.13
2A-13A-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	66786	2165	48	20	55990	3625	24.57	24.59	0.02
2A-13A-48A-66A	13	5	23230	782	5230	751	QPSK	1	12	2	20	700	1940	66	20	66786	2165	48	20	55990	3625	24.69	24.6	-0.09
2A-13A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	13	10	5230	751	48	20	55990	3625	24.4	24.38	-0.02
2A-13A-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2190	66	20	66838	2170.2	24.57	24.66	0.09
2A-13A-66C	13	5	23230	782	5230	751	QPSK	1	12	2	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.69	24.5	-0.19
2A-13A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	700	1940	13	10	5230	751	24.4	24.34	-0.06
2A-29A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2165	29	10	9715	722.5	24.57	24.53	-0.04
2A-29A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	66	20	66786	2165	29	10	9715	722.5	22.63	22.7	0.07
2A-29A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	30	10	9820	2355	2	20	700	1940	29	10	9715	722.5	24.4	24.46	0.06
2A-48A-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	48	20	55340	3560	48	20	56640	3690	24.57	24.63	0.06
2A-48A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	48	20	55340	3560	48	20	56640	3690	24.4	24.42	0.02
2A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.64	0.07
2A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	24.4	24.4	0
2A-48A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	48	20	55990	3625	24.57	24.59	0.02
2A-48A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	48	20	55990	3625	24.4	24.5	0.1
2A-66A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	67036	2190	66	10	66486	2135	66	10	66585	2144.9	24.57	24.53	-0.04
2A-66A-66B	66	20	132572	1770	67036	2190	QPSK	1	99	66	10	66486	2135	66	10	66585	2144.9	2	20	700	1940	24.4	24.47	0.07
2A-66A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	2	20	700	1940	66	20	66786	2165	24.38	24.27	-0.11
2A-66A-66A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66536	2140	66	20	67036	2190	71	20	68761	634.5	24.57	24.48	-0.09
2A-66A-66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	71	20	68761	634.5	24.4	24.26	-0.14
2A-66A-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	66	20	66536	2140	66	20	67036	2190	24.4	24.43	0.03
2A-66C-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	67036	2190	66	20	66838	2170.2	71	20	68761	634.5	24.57	24.56	-0.01
2A-66C-71A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	700	1940	71	20	68761	634.5	24.4	24.44	0.04
2A-66C-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	66	20	67036	2190	66	20	66838	2170.2	2	20	700	1940	24.4	24.36	-0.04
4A-4A-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	5	5	2425	871.5	5	10	2497	878.7	24.12	23.93	-0.19
4A-4A-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	4	20	2050	2120	4	20	2300	2145	24.32	24.37	0.05
4A-4A-12B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	12	5	5048	732.8	12	10	5120	740	24.12	24.02	-0.1
4A-4A-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5023	730.3	4	20	2050	2120	4	20	2300	2145	24.79	24.76	-0.03
4A-48D	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	24.12	24.21	0.09
5A-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	66	20	66536	2140	66	20	67036	2190	24.32	24.4	0.08
5A-5A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	5	10	2450	874	5	10	2600	889	24.4	24.25	-0.15
5A-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	66	10	66486	2135	66	10	66585	2144.9	24.32	24.12	-0.2
5A-5A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	5	10	2450	874	5	10	2600	889	24.38	24.48	0.1
5A-5A-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	66	20	67036	2190	66	20	66838	2170.2	24.32	24.4	0.08
5A-5A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	5	10	2450	874	5	10	2600	889	24.4	24.43	0.03
5A-48A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55990	3625	66	20	66536	2140	66	20	67036	2190	24.32	24.31	-0.01
5A-48A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	5	10	2525	881.5	48	20	55340	3560	24.4	24.47	0.07
13A-48A-66B	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	66	10	66486	2135	66	10	66585	2144.9	24.69	24.64	-0.05
13A-48A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	13	10	5230	751	48	20	55990	3625	24.38	24.41	0.03
13A-48A-66C	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	66	20	67036	2190	66	20	66838	2170.2	24.69	24.61	-0.08
13A-48C-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	13	10	5230	751	48	20	55990	3625	24.4	24.44	0.04
25A-41D	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40422	2573.2	41	20	40620	2593	41	20	40818	2612.8	24.56	24.39	-0.17
2A-2A-46C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50692	5540.2	46	20	50890	5560	24.57	24.67	0.1
2A-46A-46A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	46890	5160	46	20	47088	5179.8	66	20	67036	2190	24.57	24.55	-0.02
2A-46A-46A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	46890	5160	46	20	47088	5179.8	2	20	700	1940	24.4	24.23	-0.17
2A-46A-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55990	3625	66	20	67036	2190	24.57	24.62	0.05
2A-46A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	46	20	50690	5540	48	20	55990	3625	24.4	24.43	0.03
4A-46A-46C	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.12	23.94	-0.18
4A-46D	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.12	24.15	0.03
2A-12A-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5095	737.5	66	20	67036	2190	66	20	66838	2170.2	24.57	24.6	0.03
2A-12A-66C	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.79	24.62	-0.17
2A-12A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	700	1940	12	10	5095	737.5	24.4	24.3	-0.1
2A-7C-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	13	10	5230	751	24.57	24.54	-0.03
2A-7C-13A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	13	10	5230	751	2	20	900	1960	23.74	23.68	-0.06
2A-7C-13A	13	5	23230	782	5230	751	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.69	24.65	-0.04
2A-7A-7A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
2A-7A-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3100	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
2A-7A-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.4	24.28	-0.12

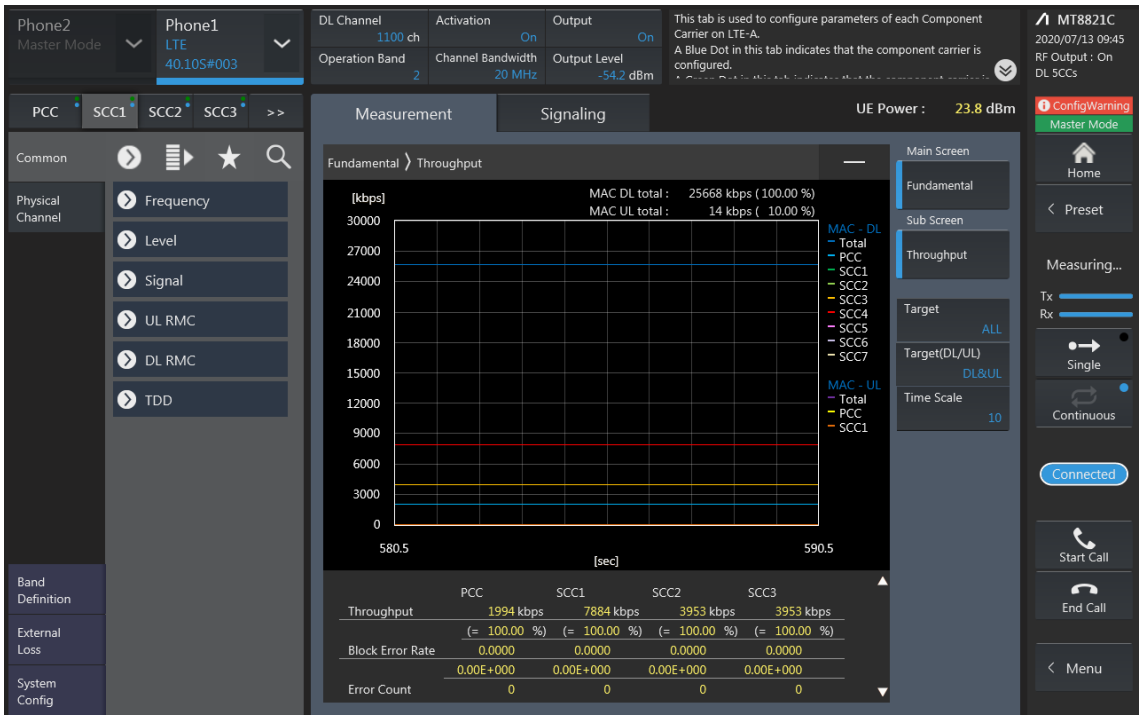
2A-7C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
2A-7C-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
2A-7C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.4	24.22	-0.18
2A-13A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.3	24.57	24.55	-0.02
2A-13A-66B	13	5	23230	782	5230	751	QPSK	1	12	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	24.69	24.68	-0.01
2A-13A-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	2	20	900	1960	13	10	5230	751	24.4	24.28	-0.12
2A-46C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	66	20	66536	2120	24.57	24.52	-0.05
2A-46C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50692	5540.2	46	20	50890	5560	2	20	900	1960	24.4	24.38	-0.02
46C-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	46	20	50692	5540.2	46	20	50890	5560	24.4	24.35	-0.05
2A-2A-29A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.65	0.08
2A-2A-29A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.4	24.34	-0.06
2A-29A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	29	10	9715	722.5	66	20	66536	2140	66	20	67036	2190	24.57	24.58	0.01
2A-29A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	900	1960	29	10	9715	722.5	24.4	24.21	-0.19
29A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	29	10	9715	722.5	22.58	22.55	-0.03
29A-30A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	30	10	9820	2355	29	10	9715	722.5	24.4	24.46	0.06
48A-48A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.4	24.29	-0.11
48A-48A-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.3	-0.08
48A-48A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.4	24.22	-0.18

LTE Down Link 5CA Call Setup

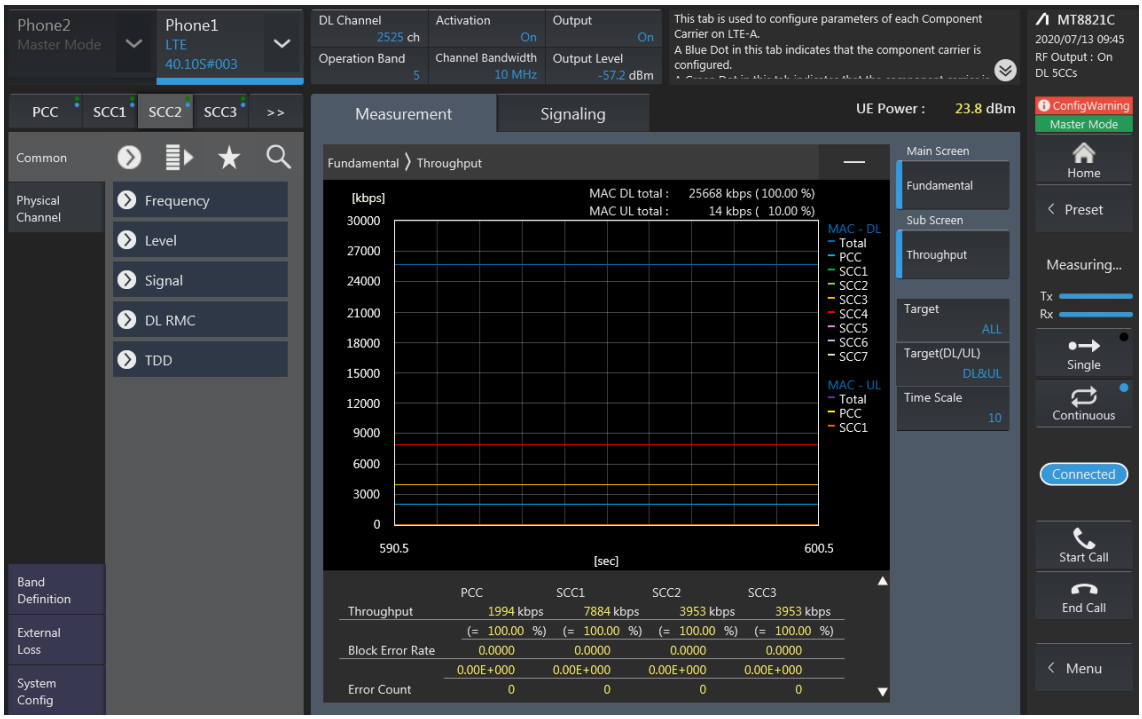
PCC Setting (Channel/ RB/ BW/ Modulation)



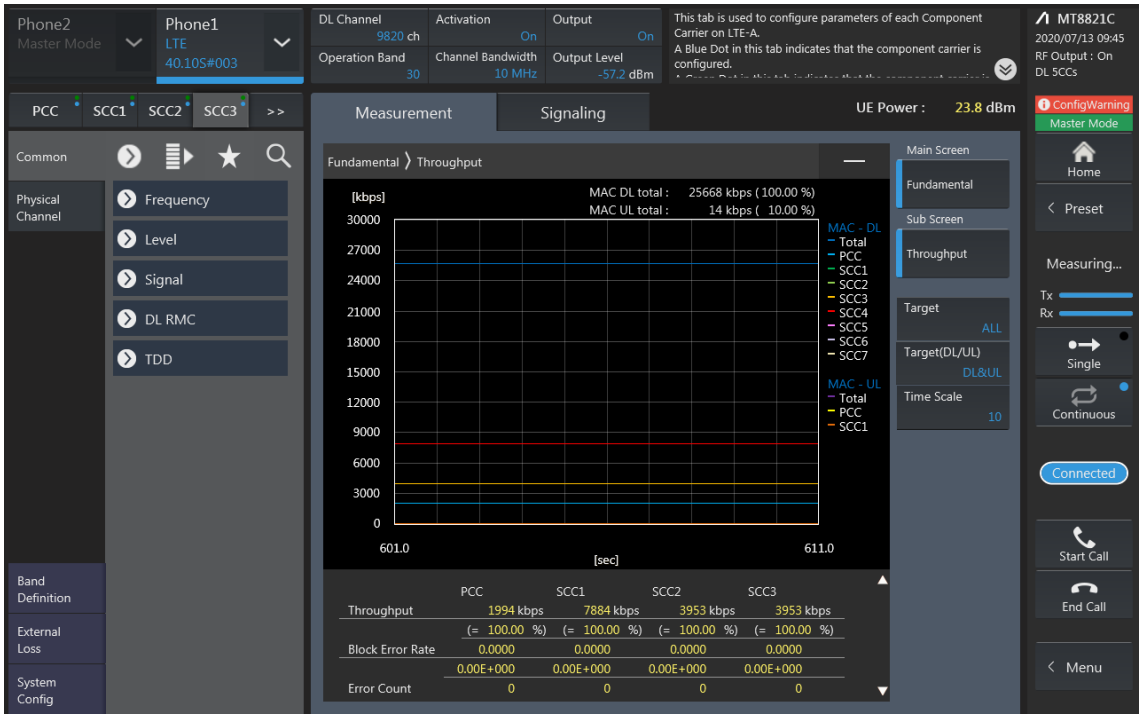
SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



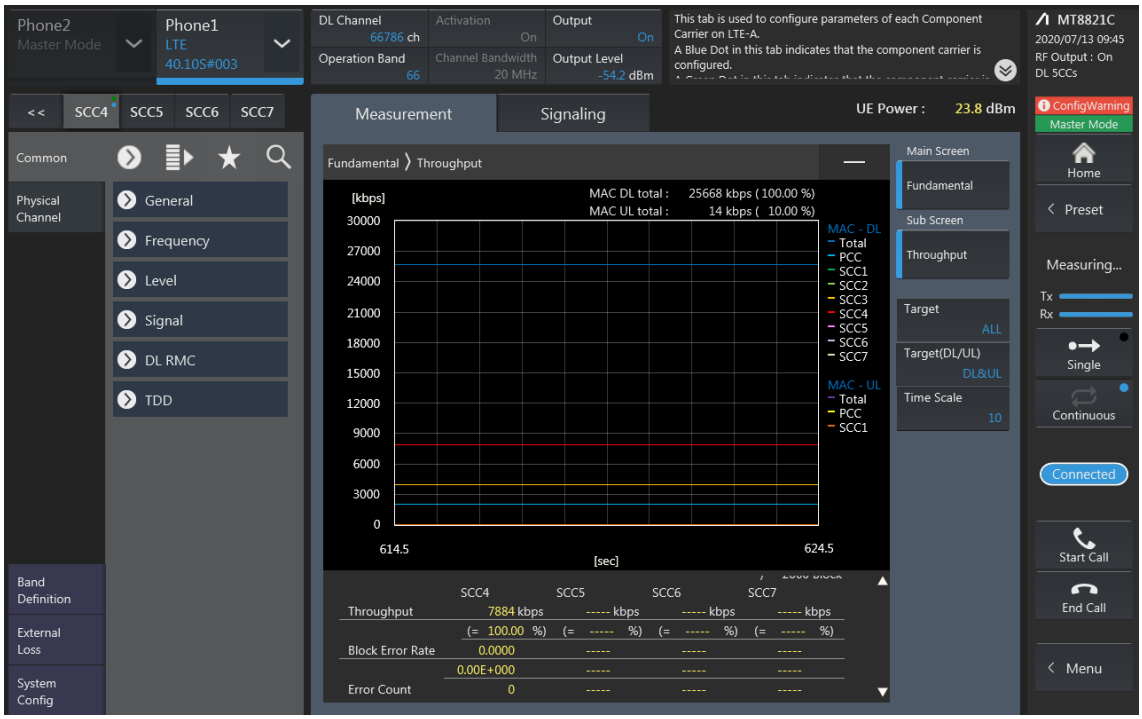
SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC3 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC4 Setting (Channel/ RB/ BW/ Modulation) and call Connection

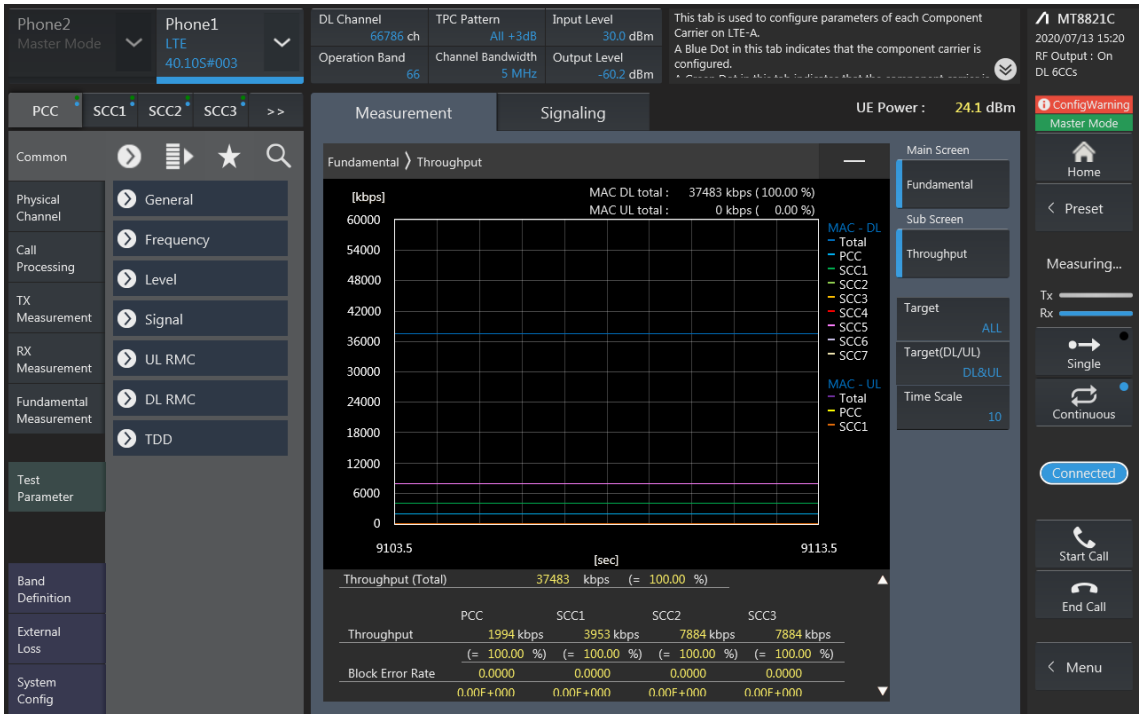


5CA Downlink Carrier aggregation conducted Powers

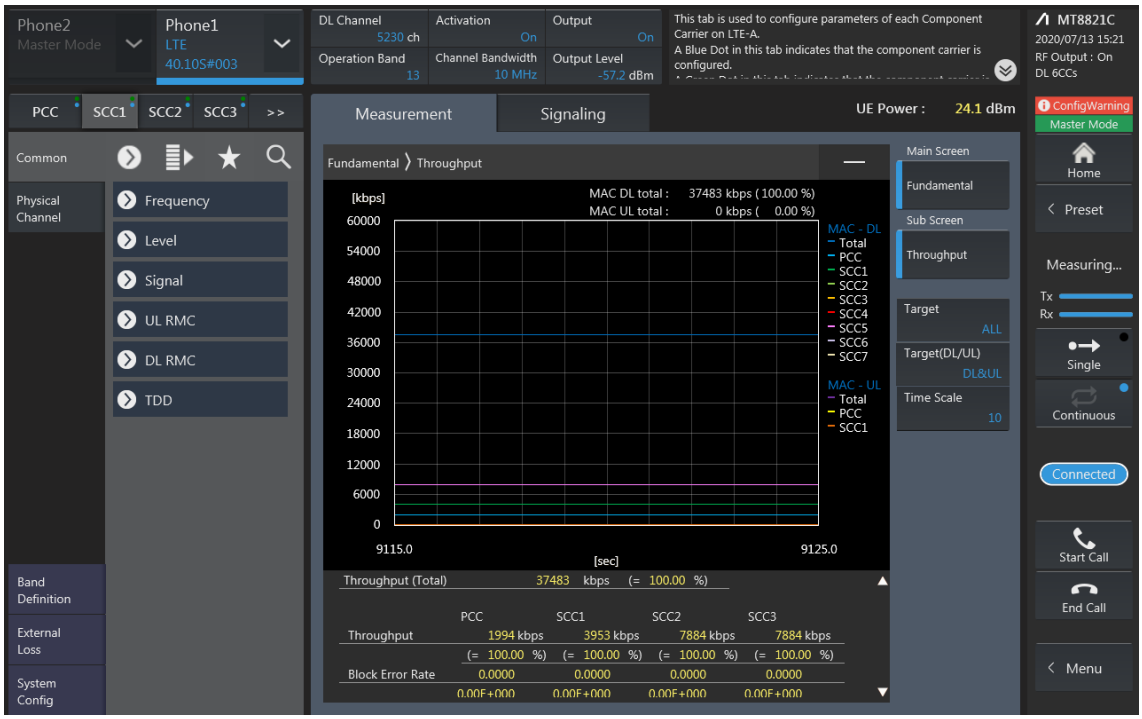
Combination	PCC									SCC				SCC				SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-2A-5A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	24.57	24.55	-0.02
2A-2A-5A-30A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.32	24.29	-0.03
2A-2A-5A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.62	-0.01
2A-2A-5A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.4	24.24	-0.16
2A-2A-5A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	67236	2190	24.57	24.47	-0.1
2A-2A-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	2	20	700	1940	2	20	1100	1980	24.32	24.24	-0.08
2A-2A-5A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.4	24.35	-0.05
2A-2A-5A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	66	10	66486	2135	66	10	66585	2144.9	24.57	24.66	0.09
2A-2A-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	2	20	1100	1980	24.32	24.38	0.06
2A-2A-5A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.38	24.29	-0.09
2A-2A-5A-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	66984	2164.8	24.57	24.65	0.08
2A-2A-5A-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66786	2145	66	20	66984	2164.8	2	20	900	1960	2	20	1100	1980	24.32	24.31	-0.01
2A-2A-5A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	24.4	24.36	-0.04
2A-2A-12B-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	5	5048	732.8	12	10	5120	740	66	20	66786	2165	24.57	24.63	0.06
2A-2A-12B-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	66	20	66786	2165	2	20	700	1940	2	20	1100	1980	24.79	24.62	-0.17
2A-2A-12B-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.4	24.27	-0.13
2A-2A-12A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	24.57	24.45	-0.12
2A-2A-12A-30A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.79	24.66	-0.13
2A-2A-12A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.58	-0.05
2A-2A-12A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.4	24.48	0.08
2A-2A-12A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	66	20	66786	2145	66	20	67236	2190	24.57	24.39	-0.18
2A-2A-12A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.79	24.64	-0.15
2A-2A-12A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.4	24.35	-0.05
2A-2A-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.39	-0.18
2A-2A-13A-66A-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.56	-0.13
2A-2A-13A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.4	24.32	-0.08
2A-2A-14A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	24.57	24.57	0
2A-2A-14A-30A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.78	24.71	-0.07
2A-2A-14A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.54	-0.09
2A-2A-14A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.4	24.5	0.1
2A-2A-14A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	66	20	66786	2145	66	20	67236	2190	24.57	24.4	-0.17
2A-2A-14A-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.78	24.72	-0.06
2A-2A-14A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.4	24.36	-0.04
2A-5B-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	5	10	2624	891.4	66	20	66786	2145	66	20	67236	2190	24.57	24.46	-0.11
2A-5B-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.38	0.06
2A-5B-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	5	10	2525	881.5	5	10	2624	891.4	24.4	24.4	0
2A-5B-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	66	15	66786	2145	66	5	66879	2154.3	24.57	24.57	0
2A-5B-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	24.32	24.41	0.09
2A-5B-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	2	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.38	24.3	-0.08
2A-5B-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	24.57	24.55	-0.02
2A-5B-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	2	20	700	1940	24.32	24.14	-0.18
2A-5B-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	5	5	2425	871.5	5	10	2525	881.5	2	20	700	1940	24.4	24.3	-0.1
2A-5A-30A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.37	-0.2
2A-5A-30A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.23	-0.09
2A-5A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	2	20	900	1960	22.63	22.69	0.06
2A-5A-30A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	2	20	900	1960	30	10	9820	2355	24.4	24.28	-0.12
2A-5A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	24.57	24.64	0.07
2A-5A-48D	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	2	20	900	1960	24.32	24.23	-0.09
2A-5A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.51	-0.06
2A-5A-48C-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.32	24.41	0.09
2A-5A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	24.4	24.39	-0.01
2A-12B-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5048	732.8	12	10	5120	740	66	20	66786	2145	66	20	67236	2190	24.57	24.56	-0.01
2A-12B-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.75	-0.04
2A-12B-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	5	5095	737.5	12	10	5167	744.7	24.4	24.49	0.09
2A-12A-30A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	744.7	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.59	0.02
2A-12A-30A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.79	0
2A-12A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.5	-0.13
2A-12A-30A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.4	24.2	-0.2
2A-13A-48A-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.45	-0.12
2A-13A-48A-48C	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.79	0.1
2A-13A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.57	0
2A-13A-48D	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	2	20	900	1960	24.69	24.66	-0.03
2A-13A-48A-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.57	24.5	-0.07
2A-13A-48A-48A-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	2	20	900	1960	24.69	24.65	-0.04
2A-13A-48A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.4	24.36	-0.04
2A-13A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.52	-0.05
2A-13A-48C-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.53	-0.16
2A-13A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.4	24.36	-0.04
2A-13A-66A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	66786	2145	66	20	66536	2120	66	20	66734	2139.8	24.57	24.47	-0.1
2A-13A-66A-66B	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	66536	2120	66	20	66734	2139.8	2	20	900	1960	24.69	24.61	-0.08
2A-13A-66A-66B	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.4	24.39	-0.01
2A-14A-30A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.52	-0.05
2A-14A-30A-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.84	0.06
2A-14A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.59	-0.04
2A-14A-30A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.4	24.31	-0.09
2A-48A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.53	-0.04
2A-48C-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.57	24.67	0.1
2A-48A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.43	-0.14
2A-48A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.4	24.3	-0.1
2A-48D-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.46	-0.11
2A-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.4	24.36	-0.04
4A-48E	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	20	55934	3619.4	24.12	24.09	-0.03
5A-48D-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66536	2145	24.32	24.27	-0.05
5A-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.4	24.32	-0.08
13A-48A-48D	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.69	24.62	-0.07
13A-48C-48C	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.69	24.68	-0.01
13A-48A-48C-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.54	-0.15
13A-48A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.4	24.4	0
13A-48D-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.69	24.6	-0.09
13A-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.4	24.25	-0.15
48A-48E	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	48	20	56046	3630.6	22.11	21.91	-0.2
48C-48D	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	55575	3583.5	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	22.11	21.96	-0.15
48F	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	48	20	56565	3682.5	22.11	22.12	0.01
2A-2A-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.57	24.47	-0.1
2A-46A-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.57	24.4	-0.17
2A-46A-46C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	66	20	66786	2145	24.57	24.42	-0.15
2A-46A-46C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.4	24.25	-0.15
2A-46C-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	66	20	66786	2145	24.57	24.63	0.06
2A-46C-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	24.4	24.32	-0.08
2A-46A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.63	0.06
2A-46A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	24.4	24.29	-0.11
4A-46A-46D	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.12	24.16	0.04
13A-48E	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.69	24.58	-0.11
2A-46D-48A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	48	20	55773	3603.3	24.57	24.55	-0.02
2A-46D-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	66	20	66786	2145	24.57	24.48	-0.09
2A-46D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.4	24.25	-0.15
2A-46C-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.42	-0.15
2A-46A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.54	-0.03
46A-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.4	24.28	-0.12
46C-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	46	20	50692	5540.2	46	20	50890	5560	24.4	24.25	-0.15
46D-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.4	24.18	-0.22
46E-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50490	5520	46	20	50688	5539.8	46	20	50889	5559.9	46	20	51090	5580	24.4	24.11	-0.29
2A-46E	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50490	5520	46	20	50688	5539.8	46	20	50889	5559.9	46	20	51090	5580	24.57	24.44	-0.13
46A-46D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.4	24.38	-0.02
48A-48C-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.4	0.02
48A-48C-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.4	24.35	-0.05
48A-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.4	24.46	0.06
48C-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.4	24.43	0.03

LTE Down Link 6CA Call Setup

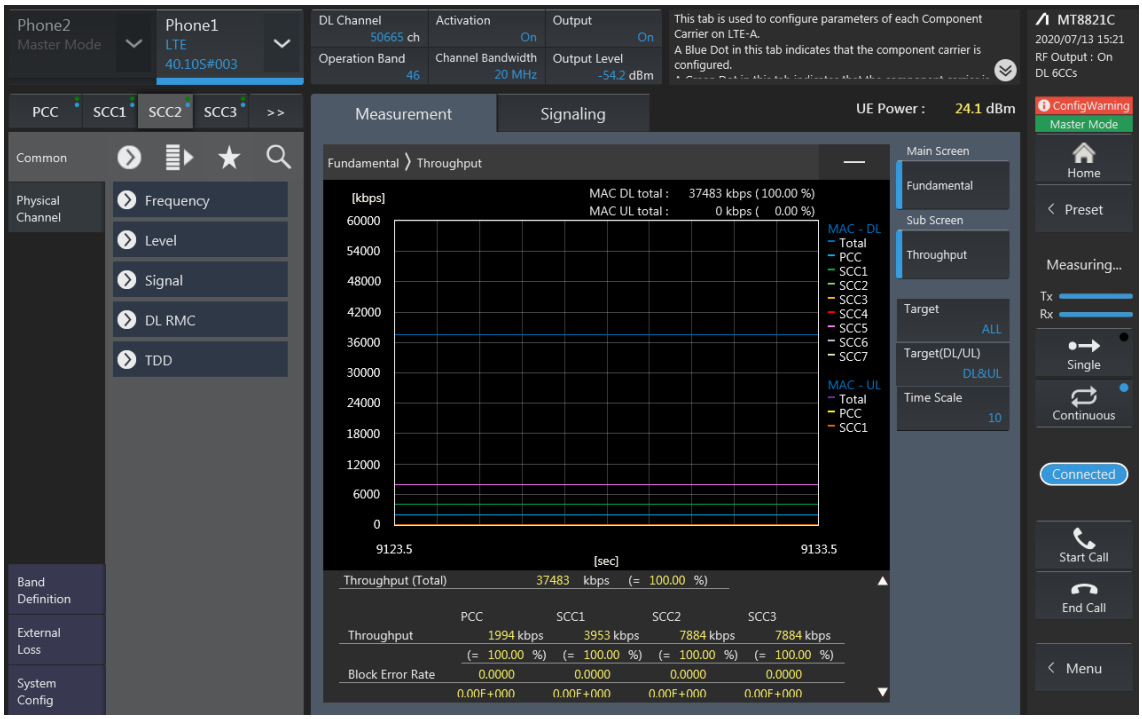
PCC Setting (Channel/ RB/ BW/ Modulation)



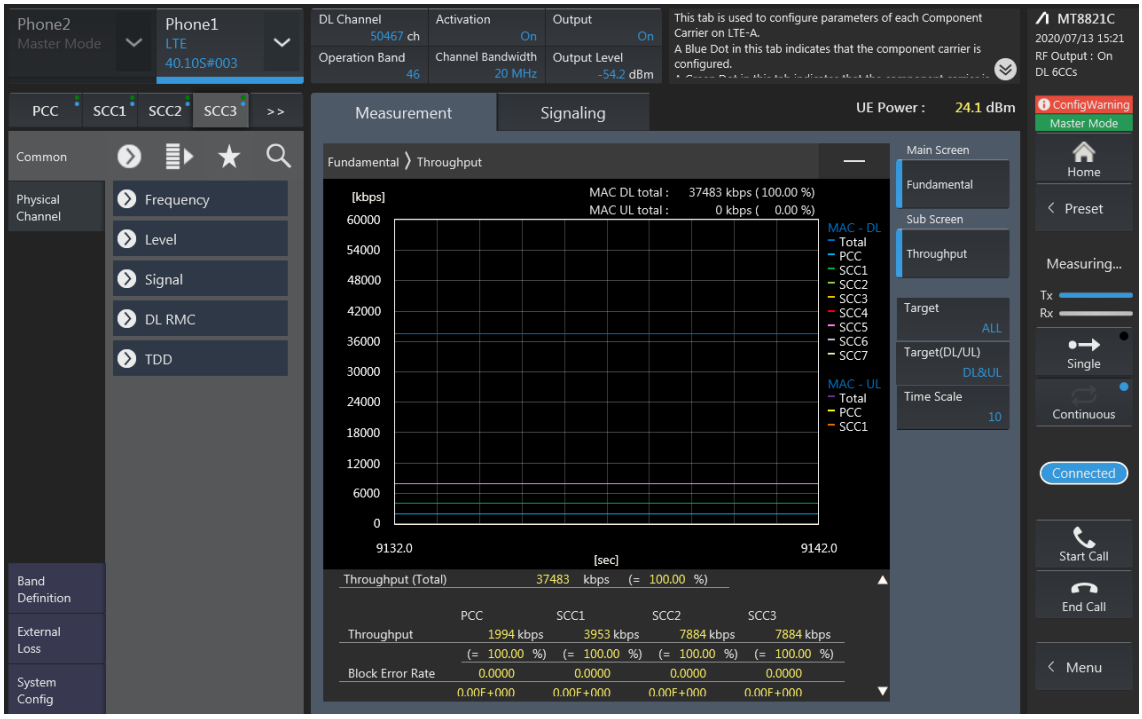
SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



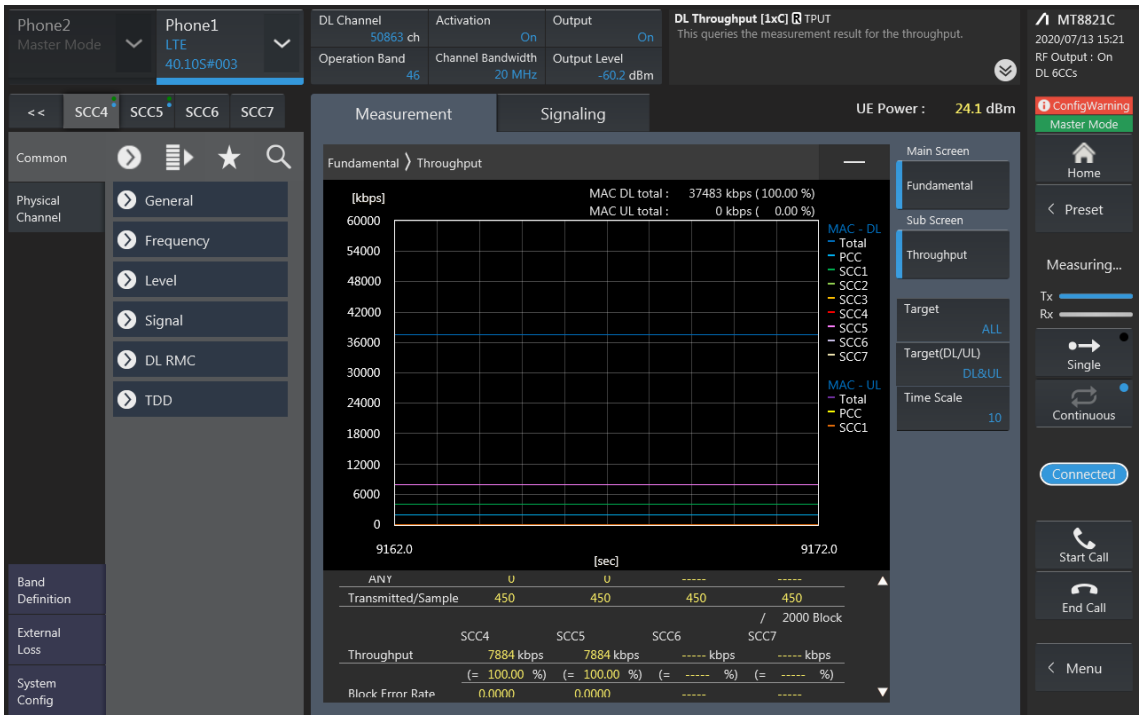
SCC2 Setting (Channel /RB/BW/Modulation) and call Connection



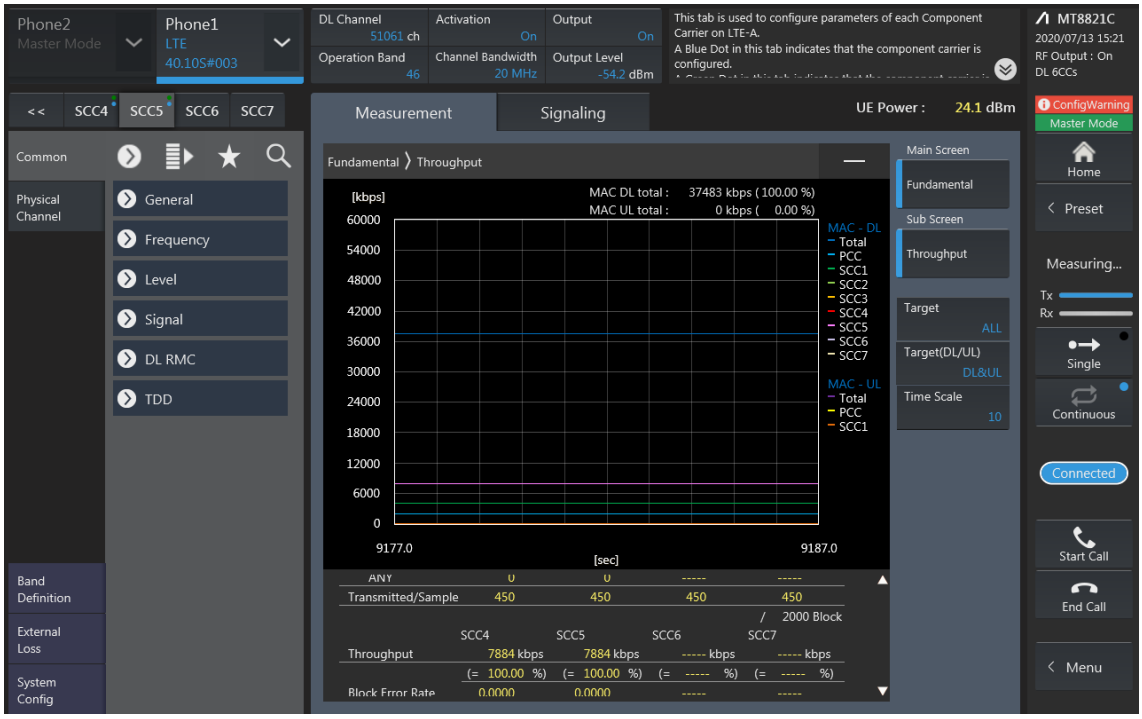
SCC3 Setting (Channel /RB/BW/Modulation) and call Connection



SCC4 Setting (Channel /RB/BW/Modulation) and call Connection



SCC5 Setting (Channel /RB/BW/Modulation) and call Connection



6CA Downlink Carrier aggregation conducted Powers

Combination	PCC									SCC				SCC				SCC				SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	C DLChan	C DLFrequen	Band	BW	C DLChan	C DLFrequen	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-48E-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	66	20	66786	2145	24.57	24.66	0.09
2A-48E-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.4	24.49	0.09

LTE 4X4 MIMO Downlink Standalone Conducted Power

(Per TCBC Workshop note May 2017)

SAR test exclusion for LTE DL 4x4 MIMO should be determined by

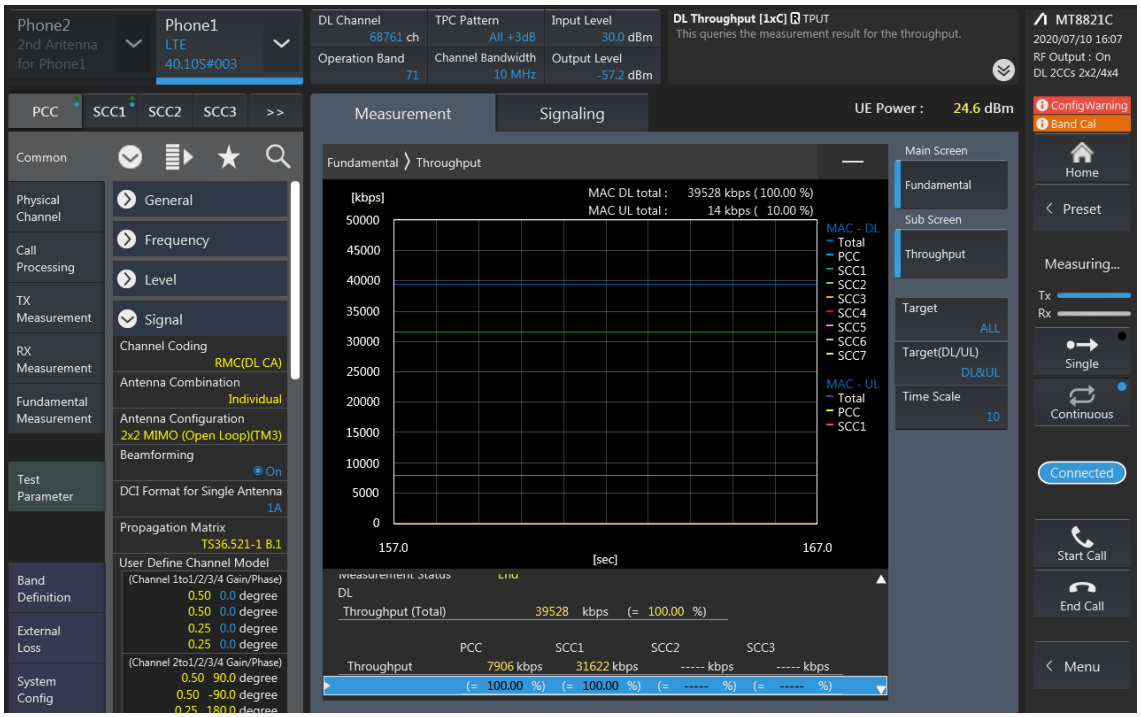
–UL power measurements with and without DL MIMO

–using the highest UL output power configuration without DL MIMO to confirm that UL output with DL MIMO is < ¼ dB higher

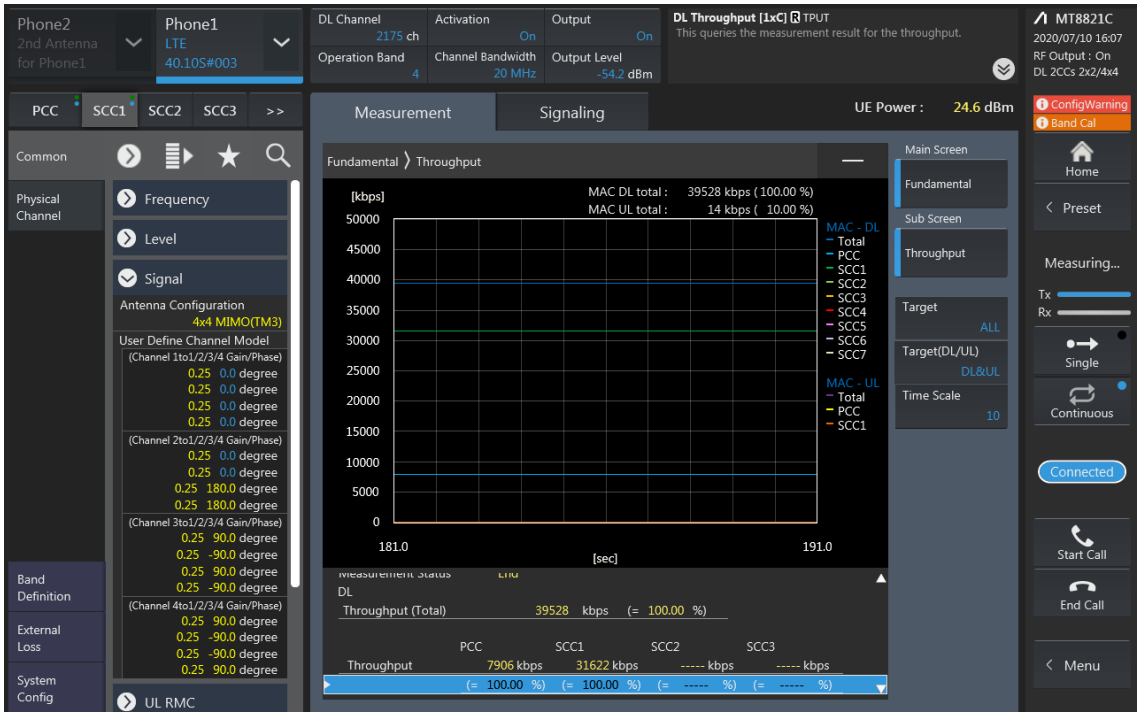
–for DL MIMO with carrier aggregation, the same SAR test exclusion procedure should be considered

LTE Down Link 2CA 4x4 MIMO Call Setup

PCC Setting (Channel/ RB/ BW/ Modulation)



SCC Setting (Channel/ RB/ BW/ Modulation) and call Connection

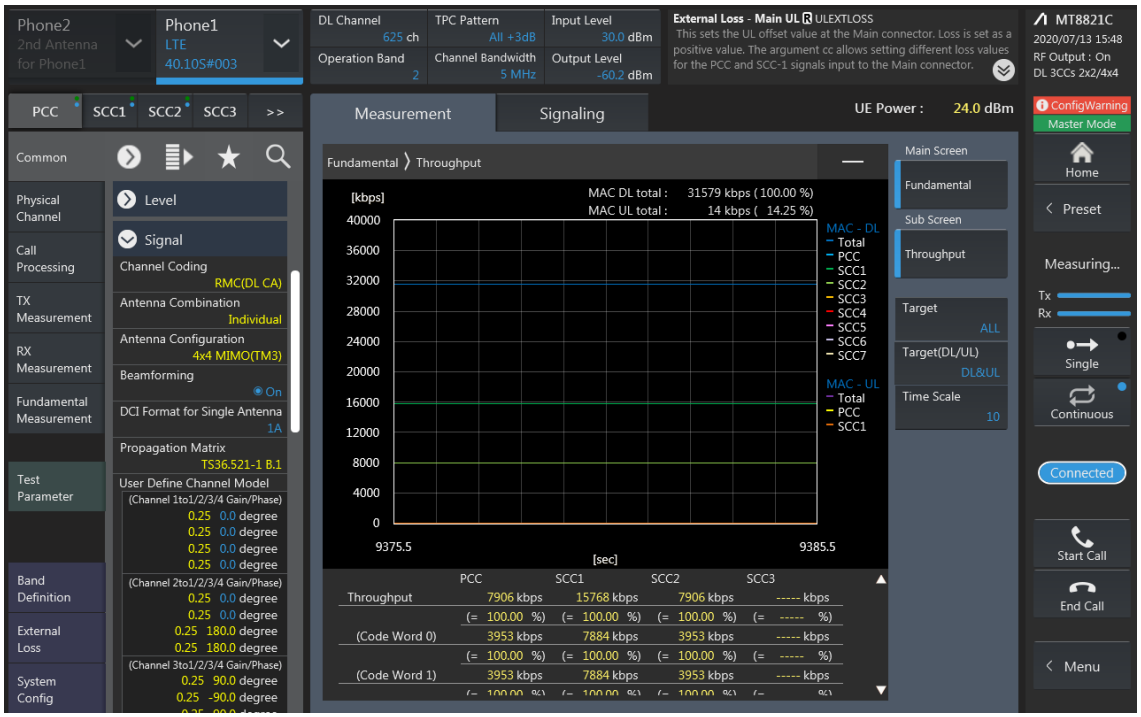


LTE Downlink 2CA 4X4 MIMO Maximum Conducted Power

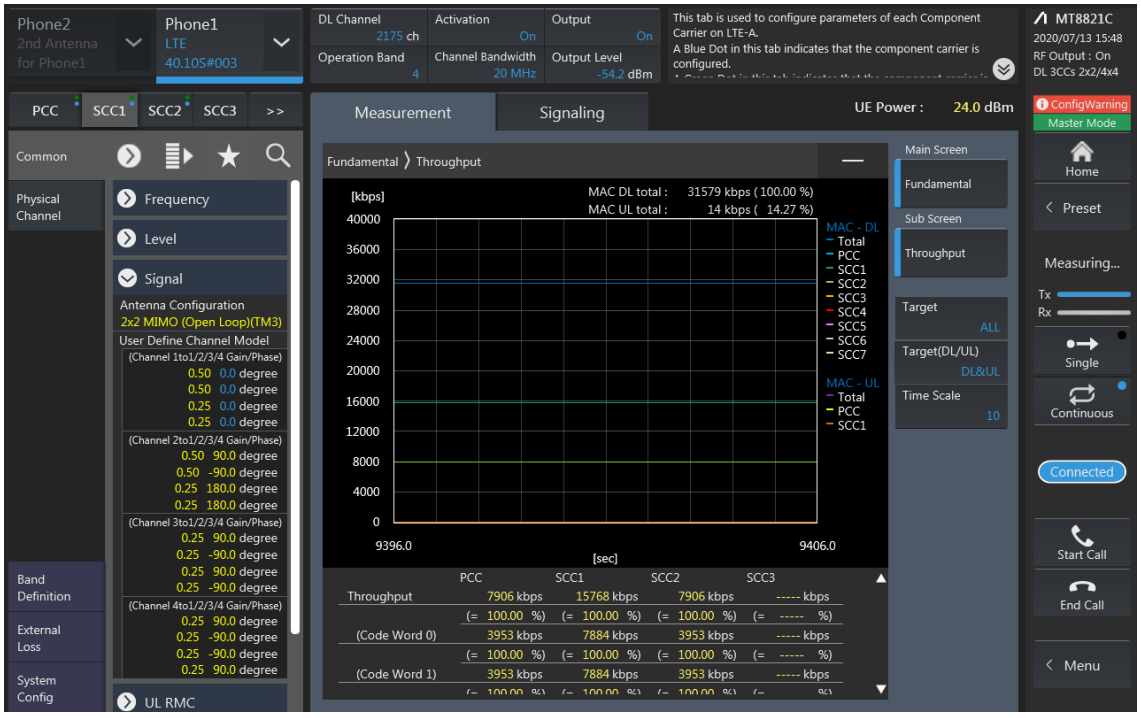
Combination	PCC									SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
4A-[48A]	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55990	3625	24.12	23.97	-0.15
[4A]-48A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55990	3625	24.12	23.94	-0.18
[4A]-[48A]	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55990	3625	24.12	24.21	0.09
12A-[48A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	48	20	55990	3625	24.79	24.76	-0.03
25A-[25A]	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	25	10	8090	1935	24.56	24.56	0.00
[25A]-25A	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	25	20	8140	1940	24.56	24.39	-0.17
[25A]-[25A]	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	25	5	8065	1932.5	24.56	24.36	-0.20
25A-[41A]	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40620	2593	24.56	24.40	-0.16
[25A]-41A	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40620	2593	24.56	24.37	-0.19
[25A]-[41A]	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40620	2593	24.56	24.59	0.03
41A-[41A]	41	20	40185	2549.5	40185	2549.5	QPSK	1	0	41	20	41490	2680	24.43	24.44	0.01
[41A]-41A	41	20	40185	2549.5	40185	2549.5	QPSK	1	0	41	20	41490	2680	24.43	24.53	0.10
[41A]-[41A]	41	20	40185	2549.5	40185	2549.5	QPSK	1	0	41	20	41490	2680	24.43	24.53	0.10
[25A]-46A	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	46	20	50665	5537.5	24.56	24.40	-0.16
[48A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	48	20	55990	3625	24.40	24.38	-0.02

LTE Down Link 3CA 4x4 MIMO Call Setup

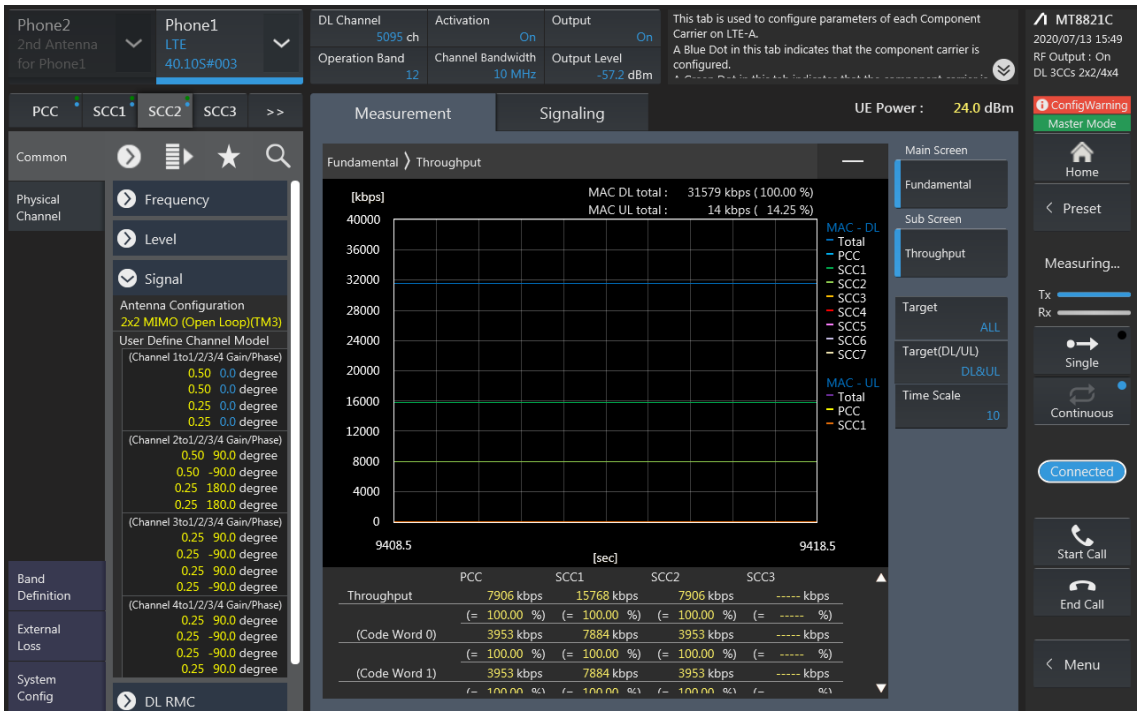
PCC Setting (Channel/ RB/ BW/ Modulation)



SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection

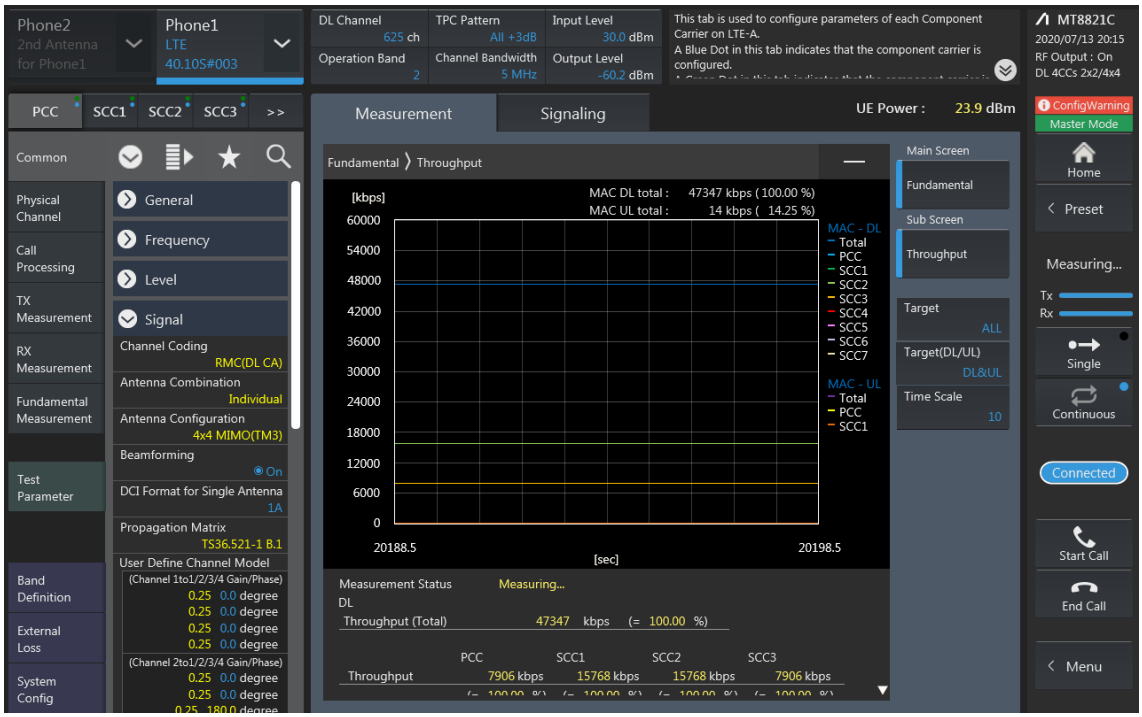


LTE Downlink 3CA 4X4 MIMO Maximum Conducted Power

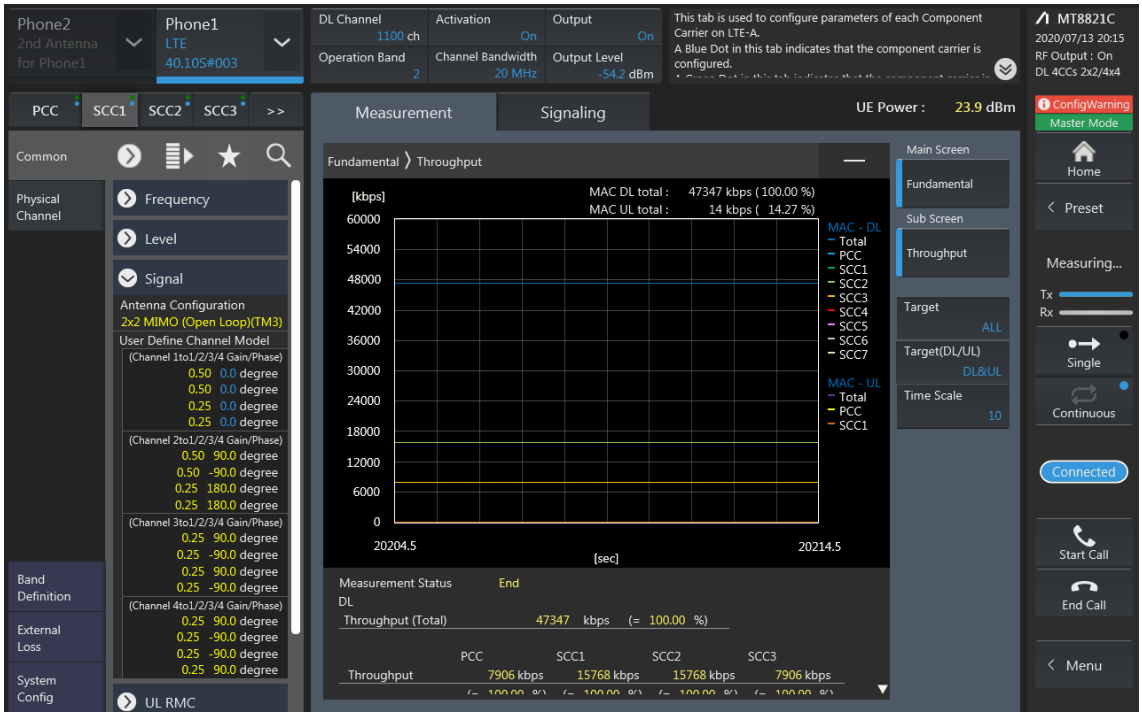
Combination	PCC									SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-2A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	71	20	68761	634.5	24.57	24.62	0.05
2A-[2A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	71	20	68761	634.5	24.57	24.62	0.05
[2A]-2A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	71	20	68761	634.5	24.57	24.42	-0.15
[2A]-[2A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	71	20	68761	634.5	24.57	24.46	-0.11
2A-[2A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	2	20	1100	1980	24.40	24.25	-0.15
[2A]-2A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[2]	20	1100	1980	24.40	24.42	0.02
[2A]-[2A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[2]	20	1100	1980	24.40	24.24	-0.16
2A-[4A]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2175	2132.5	13	10	5230	751	24.57	24.54	-0.03
[2A]-4A-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2175	2132.5	13	10	5230	751	24.57	24.47	-0.10
[2A]-[4A]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2175	2132.5	13	10	5230	751	24.57	24.38	-0.19
2A-[4A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	900	1960	13	10	5230	751	24.12	24.01	-0.11
[2A]-4A-13A	2	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	900	1960	13	10	5230	751	24.12	24.04	-0.08
[2A]-[4A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	900	1960	13	10	5230	751	24.12	24.10	-0.02
2A-[4A]-13A	13	10	23230	782	5230	751	QPSK	1	24	[4]	20	2175	2132.5	2	20	900	1960	24.63	24.69	0.06
[2A]-4A-13A	13	10	23230	782	5230	751	QPSK	1	24	4	20	2175	2132.5	[2]	20	900	1960	24.63	24.61	-0.02
[2A]-[4A]-13A	13	10	23230	782	5230	751	QPSK	1	24	[4]	20	2175	2132.5	[2]	20	900	1960	24.63	24.73	0.10
4A-[4A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	13	10	5230	751	24.40	24.50	0.10
[4A]-4A-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	13	10	5230	751	24.40	24.40	0.00
[4A]-[4A]-13A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	13	10	5230	751	24.40	24.32	-0.08
4A-[4A]-13A	13	10	23230	782	5230	751	QPSK	1	24	[4]	20	2050	2120	4	20	2300	2145	24.63	24.44	-0.19
[4A]-4A-13A	13	10	23230	782	5230	751	QPSK	1	24	4	20	2050	2120	[4]	20	2300	2145	24.63	24.72	0.09
[4A]-[4A]-13A	13	10	23230	782	5230	751	QPSK	1	24	[4]	20	2050	2120	[4]	20	2300	2145	24.63	24.54	-0.09
4A-[4A]-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	71	20	68786	637	24.12	24.12	0.00
[4A]-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	71	20	68786	637	24.12	24.12	0.00
[4A]-[4A]-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	71	20	68786	637	24.12	24.04	-0.08
4A-[4A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	4	20	2050	2120	[4]	20	2300	2145	24.40	24.36	-0.04
[4A]-4A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	24.40	24.35	-0.05
[4A]-[4A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	24.40	24.36	-0.04
4A-[48C]	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55773	3603.3	48	20	55971	3623.1	24.12	24.18	0.06
[4A]-48C	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55773	3603.3	48	20	55971	3623.1	24.12	24.18	0.06
[4A]-[48C]	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55773	3603.3	48	20	55971	3623.1	24.12	24.18	0.06
25A-[41C]	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	[41]	20	40620	2593	[41]	20	40818	2612.8	24.56	24.64	0.08
[25A]-41C	[25]	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40620	2593	41	20	40818	2612.8	24.56	24.49	-0.07
[25A]-[41C]	[25]	5	26665	1912.5	8665	1992.5	QPSK	1	12	[41]	20	40620	2593	[41]	20	40818	2612.8	24.56	24.51	-0.05
41A-[41C]	41	20	40185	2549.5	40185	2549.5	QPSK	1	0	[41]	20	41490	2680	[41]	20	41292	2660.2	24.43	24.47	0.04
[41A]-41C	[41]	20	40185	2549.5	40185	2549.5	QPSK	1	0	41	20	41490	2680	41	20	41292	2660.2	24.43	24.48	0.05
[41A]-[41C]	[41]	20	40185	2549.5	40185	2549.5	QPSK	1	0	[41]	20	41490	2680	[41]	20	41292	2660.2	24.43	24.48	0.05
2A-[2A]-46A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	46	20	50690	5540	24.57	24.56	-0.01
[2A]-2A-46A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50690	5540	24.57	24.42	-0.15
[2A]-[2A]-46A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	46	20	50690	5540	24.57	24.41	-0.16
[4A]-46A-46A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	46890	5160	46	20	54340	5905	24.12	24.22	0.10
[4A]-46C	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50692	5540.2	46	20	50890	5560	24.12	23.97	-0.15
2A-[7A]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	13	10	5230	751	24.57	24.45	-0.12
[2A]-7A-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	13	10	5230	751	24.57	24.51	-0.06
[2A]-[7A]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	13	10	5230	751	24.57	24.48	-0.09
2A-[7A]-13A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	13	10	5230	751	23.74	23.67	-0.07
[2A]-7A-13A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	13	10	5230	751	23.74	23.60	-0.14
[2A]-[7A]-13A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	13	10	5230	751	23.74	23.58	-0.16
2A-[7A]-13A	13	10	23230	782	5230	751	QPSK	1	24	7	15	3100	2655	2	20	1100	1980	24.63	24.50	-0.13
[2A]-7A-13A	13	10	23230	782	5230	751	QPSK	1	24	7	15	3100	2655	2	20	1100	1980	24.63	24.55	-0.08
[2A]-[7A]-13A	13	10	23230	782	5230	751	QPSK	1	24	7	15	3100	2655	2	20	1100	1980	24.63	24.48	-0.15
2A-7A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.58	0.01
2A-[7A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.66	0.09
[2A]-7A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.44	-0.13
2A-[7A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.43	-0.14
[2A]-7A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.58	0.01
[2A]-[7A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.58	0.01
[2A]-[7A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	66	20	66786	2165	24.57	24.41	-0.16
2A-7A-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.65	-0.09
2A-[7A]-66A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.78	0.04
[2A]-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.70	-0.04
2A-[7A]-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.84	0.1
[2A]-7A-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.59	-0.15
[2A]-[7A]-66A	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.82	0.08
[2A]-[7A]-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	2	20	1100	1980	66	20	66786	2165	23.74	23.60	-0.14
2A-7A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.48	0.08
2A-[7A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.36	-0.04
[2A]-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.28	-0.12
2A-[7A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.30	-0.1
[2A]-7A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.47	0.07
[2A]-[7A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.41	0.01
[2A]-[7A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	2	20	1100	1980	24.40	24.21	-0.19
12A-[48C]	12	5	23095	707.5	5095	737.5	QPSK	1	12	48	20	55990	3625	48	20	56188	3644.8	24.79	24.82	0.03
[2A]-5A-46A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2600	889	46	20	50690	5540	24.57	24.50	-0.07
[2A]-5A-46A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	1100	1980	46	20	50690	5540	24.32	24.22	-0.1
2A-46A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	46	20	50690	5540	24.57	24.40	-0.17
[2A]-46A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	46	20	50690	5540	24.57	24.58	0.01
[2A]-46A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	46	20	50690	5540	24.57	24.49	-0.08
2A-46A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	1100	1980	46	20	50690	5540	24.40	24.47	0.07
[2A]-46A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	1100	1980	46	20	50690	5540	24.40	24.29	-0.11
[2A]-46A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	1100	1980	46	20	50690	5540	24.40	24.29	-0.11
5A-46A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66786	2165	46	20	50690	5540	24.32	24.24	-0.08
5A-46A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	5	10	2600	889	46	20	50690	5540	24.40	24.37	-0.03

LTE Down Link 4CA 4x4 MIMO Call Setup

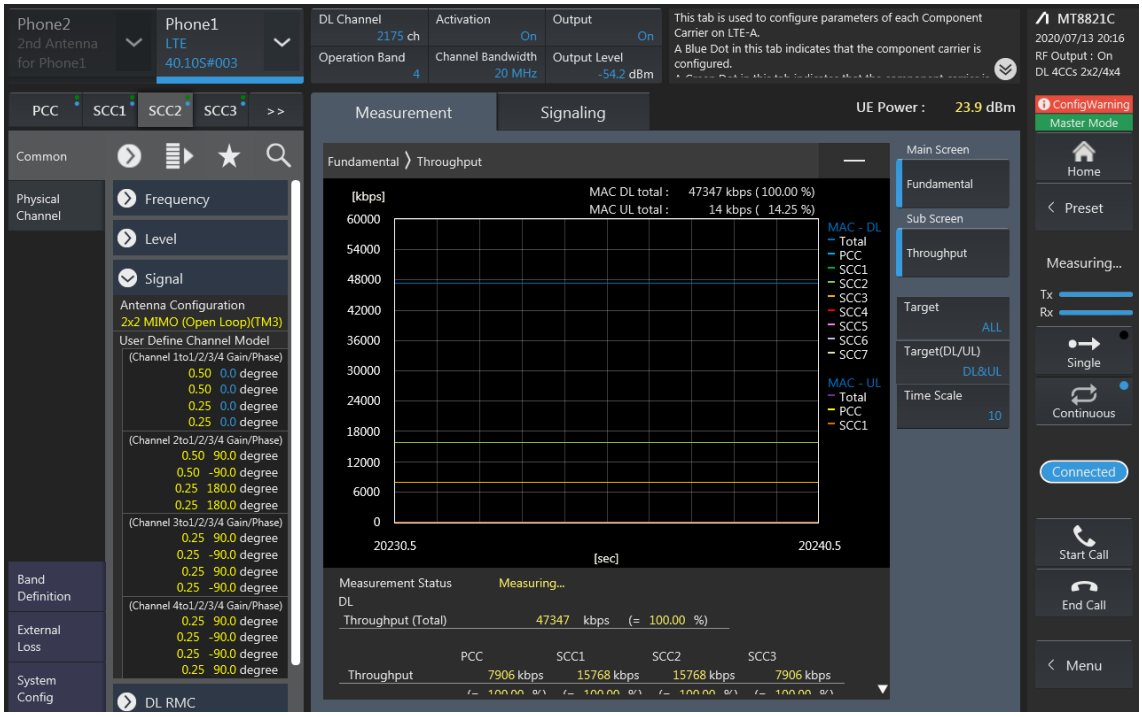
PCC Setting (Channel/ RB/ BW/ Modulation)



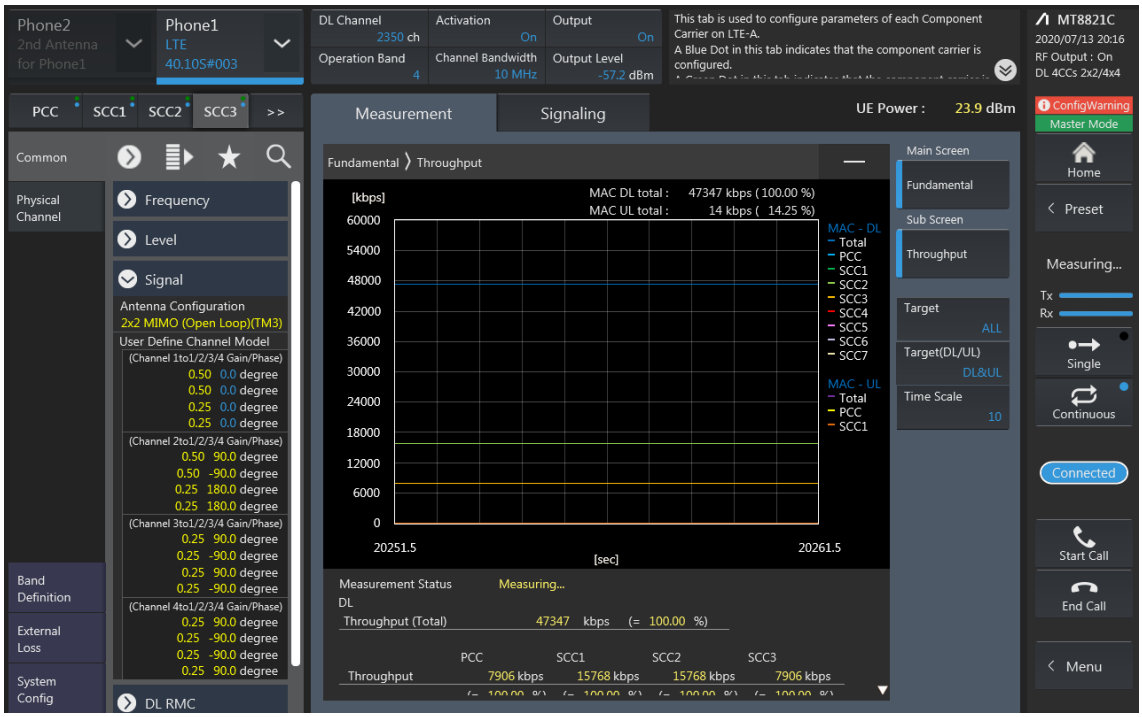
SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC3 Setting (Channel/ RB/ BW/ Modulation) and call Connection



LTE Downlink 4CA 4X4 MIMO Maximum Conducted Power

Combination	PCC									SCC					SCC					SCC					Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency		Band	BW	SCC DL Channel	SCC DL Frequency		Band	BW	SCC DL Channel	SCC DL Frequency		LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-2A-[4A]-4A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2050	2120		4	20	2300	2145		24.57	24.60	0.03
2A-[2A]-4A-4A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2050	2120		4	20	2300	2145		24.57	24.62	0.05
[2A]-2A-4A-4A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		4	20	2050	2120		4	20	2300	2145		24.57	24.54	-0.03
2A-2A-[4A]-[4A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2050	2120		[4]	20	2300	2145		24.57	24.58	0.01
2A-[2A]-[4A]-4A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2050	2120		4	20	2300	2145		24.57	24.45	-0.12
[2A]-2A-[4A]-4A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2050	2120		4	20	2300	2145		24.57	24.55	-0.02
[2A]-[2A]-4A-4A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2050	2120		4	20	2300	2145		24.57	24.62	0.05
2A-[2A]-[4A]-[4A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2050	2120		[4]	20	2300	2145		24.57	24.46	-0.11
[2A]-2A-[4A]-[4A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2050	2120		[4]	20	2300	2145		24.57	24.49	-0.08
[2A]-[2A]-[4A]-4A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2050	2120		4	20	2300	2145		24.57	24.53	-0.04
[2A]-[2A]-[4A]-[4A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2050	2120		[4]	20	2300	2145		24.57	24.45	-0.12
2A-2A-[4A]-4A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120		2	20	700	1940		2	20	1100	1980		24.12	24.22	0.1
2A-[2A]-4A-4A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145		2	20	700	1940		[2]	20	1100	1980		24.12	24.13	0.01
[2A]-2A-4A-4A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145		[2]	20	700	1940		2	20	1100	1980		24.12	24.05	-0.07
2A-2A-[4A]-[4A]	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2300	2145		2	20	700	1940		2	20	1100	1980		24.12	24.06	-0.06
2A-[2A]-[4A]-4A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145		2	20	700	1940		[2]	20	1100	1980		24.12	24.07	-0.05
[2A]-2A-[4A]-4A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145		[2]	20	700	1940		2	20	1100	1980		24.12	23.95	-0.17
[2A]-[2A]-4A-4A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145		[2]	20	700	1940		[2]	20	1100	1980		24.12	24.18	0.06
2A-[2A]-[4A]-[4A]	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2300	2145		2	20	700	1940		[2]	20	1100	1980		24.12	24.21	0.09
[2A]-2A-[4A]-[4A]	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2300	2145		[2]	20	700	1940		2	20	1100	1980		24.12	24.13	0.01
[2A]-[2A]-[4A]-4A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2300	2145		[2]	20	700	1940		[2]	20	1100	1980		24.12	23.97	-0.15
[2A]-[2A]-[4A]-[4A]	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2300	2145		[2]	20	700	1940		[2]	20	1100	1980		24.12	24.17	0.05
2A-2A-[4A]-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2175	2132.5		5	10	2525	881.5		24.57	24.42	-0.15
2A-[2A]-4A-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2175	2132.5		5	10	2525	881.5		24.57	24.37	-0.2
[2A]-2A-4A-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		4	20	2175	2132.5		5	10	2525	881.5		24.57	24.61	0.04
2A-[2A]-[4A]-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2175	2132.5		5	10	2525	881.5		24.57	24.64	0.07
[2A]-2A-[4A]-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2175	2132.5		5	10	2525	881.5		24.57	24.56	-0.01
[2A]-[2A]-4A-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2175	2132.5		5	10	2525	881.5		24.57	24.42	-0.15
[2A]-[2A]-[4A]-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2175	2132.5		5	10	2525	881.5		24.57	24.65	0.08
2A-2A-[4A]-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		2	20	1100	1980		5	10	2525	881.5		24.12	23.97	-0.15
2A-[2A]-4A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		[2]	20	1100	1980		5	10	2525	881.5		24.12	24.06	-0.06
[2A]-2A-4A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		2	20	1100	1980		5	10	2525	881.5		24.12	24.03	-0.09
2A-[2A]-[4A]-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		[2]	20	1100	1980		5	10	2525	881.5		24.12	24.18	0.06
[2A]-2A-[4A]-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		2	20	1100	1980		5	10	2525	881.5		24.12	24.02	-0.1
[2A]-[2A]-4A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		[2]	20	1100	1980		5	10	2525	881.5		24.12	24.16	0.04
[2A]-[2A]-[4A]-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		[2]	20	1100	1980		5	10	2525	881.5		24.12	23.96	-0.16
2A-2A-[4A]-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940		2	20	1100	1980		[4]	20	2175	2132.5		24.32	24.21	-0.11
2A-[2A]-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940		[2]	20	1100	1980		4	20	2175	2132.5		24.32	24.24	-0.08
[2A]-2A-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940		2	20	1100	1980		4	20	2175	2132.5		24.32	24.29	-0.03
2A-[2A]-[4A]-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940		[2]	20	1100	1980		[4]	20	2175	2132.5		24.32	24.20	-0.12
[2A]-2A-[4A]-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940		2	20	1100	1980		[4]	20	2175	2132.5		24.32	24.36	0.04
[2A]-[2A]-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940		[2]	20	1100	1980		4	20	2175	2132.5		24.32	24.26	-0.06
[2A]-[2A]-[4A]-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940		[2]	20	1100	1980		[4]	20	2175	2132.5		24.32	24.28	-0.04
2A-2A-[4A]-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2175	2132.5		12	10	5095	707.5		24.57	24.64	0.07
2A-[2A]-4A-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2175	2132.5		12	10	5095	707.5		24.57	24.49	-0.08
[2A]-2A-4A-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		4	20	2175	2132.5		12	10	5095	707.5		24.57	24.44	-0.13
2A-[2A]-[4A]-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2175	2132.5		12	10	5095	707.5		24.57	24.44	-0.13
[2A]-2A-[4A]-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2175	2132.5		12	10	5095	707.5		24.57	24.65	0.08
[2A]-[2A]-4A-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2175	2132.5		12	10	5095	707.5		24.57	24.53	-0.04
[2A]-[2A]-[4A]-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2175	2132.5		12	10	5095	707.5		24.57	24.53	-0.04
2A-2A-[4A]-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		2	20	1100	1980		12	10	5095	707.5		24.12	24.10	-0.02
2A-[2A]-4A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		[2]	20	1100	1980		12	10	5095	707.5		24.12	23.95	-0.17
[2A]-2A-4A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		2	20	1100	1980		12	10	5095	707.5		24.12	24.13	0.01
2A-[2A]-[4A]-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		[2]	20	1100	1980		12	10	5095	707.5		24.12	24.01	-0.11
[2A]-2A-[4A]-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		2	20	1100	1980		12	10	5095	707.5		24.12	23.93	-0.19
[2A]-[2A]-4A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		[2]	20	1100	1980		12	10	5095	707.5		24.12	24.17	0.05
[2A]-[2A]-[4A]-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		[2]	20	1100	1980		12	10	5095	707.5		24.12	24.18	0.06
2A-2A-[4A]-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940		2	20	1100	1980		[4]	20	2175	2132.5		24.79	24.68	-0.11
2A-[2A]-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940		[2]	20	1100	1980		4	20	2175	2132.5		24.79	24.70	-0.09
[2A]-2A-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940		2	20	1100	1980		4	20	2175	2132.5		24.79	24.69	-0.1
2A-[2A]-[4A]-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940		[2]	20	1100	1980		[4]	20	2175	2132.5		24.79	24.78	-0.01
[2A]-2A-[4A]-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[2]	20	700	1940		2	20	1100	1980		[4]	20	2175	2132.5		24.79	24.85	0.06
[2A]-[2A]-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[2]	20	700	1940		[2]	20	1100	1980		4	20	2175	2132.5		24.79	24.68	-0.11
[2A]-[2A]-[4A]-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[2]	20	700	1940		[2]	20	1100	1980		[4]	20	2175	2132.5		24.79	24.77	-0.02
2A-2A-[4A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2175	2132.5		71	20	68761	634.5		24.57	24.65	0.08
2A-[2A]-4A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2175	2132.5		71	20	68761	634.5		24.57	24.67	0.1
[2A]-2A-4A-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		4	20	2175	2132.5		71	20	68761	634.5		24.57	24.43	-0.14
2A-[2A]-[4A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2175	2132.5		71	20	68761	634.5		24.57	24.62	0.05
[2A]-2A-[4A]-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940		[4]	20	2175	2132.5		71	20	68761	634.5		24.57	24.56	-0.01
[2A]-[2A]-4A-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		4	20	2175	2132.5		71	20	68761	634.5		24.57	24.66	0.09
[2A]-[2A]-[4A]-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940		[4]	20	2175	2132.5		71	20	68761	634.5		24.57	24.41	-0.16
2A-2A-[4A]-71A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		2	20	1100	1980		71	20	68761	634.5		24.12	24.14	0.02
2A-[2A]-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		[2]	20	1100	1980		71	20	68761	634.5		24.12	24.10	-0.02
[2A]-2A-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		2	20	1100	1980		71	20	68761	634.5		24.12	24.14	0.02
2A-[2A]-[4A]-71A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940		[2]	20	1100	1980		71	20	68761	634.5		24.12	24.05	-0.07
[2A]-2A-[4A]-71A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		2	20	1100	1980		71	20	68761	634.5		24.12	24.00	-0.12
[2A]-[2A]-4A-71A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		[2]	20	1100	1980		71	20	68761	634.5		24.12	24.01	-0.11
[2A]-[2A]-[4A]-71A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940		[2]	20	1100	1980		71	20	68761	634.5		24.12	23.92	-0.2

2A-2A-[4A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	2	20	1100	1980	[4]	20	2175	2132.5	24.40	24.41	0.01
2A-[2A]-4A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[2]	20	1100	1980	4	20	2175	2132.5	24.40	24.50	0.1
[2A]-2A-4A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	2	20	1100	1980	4	20	2175	2132.5	24.40	24.28	-0.12
2A-[2A]-[4A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[2]	20	1100	1980	[4]	20	2175	2132.5	24.40	24.28	-0.12
[2A]-2A-[4A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	2	20	1100	1980	[4]	20	2175	2132.5	24.40	24.48	0.08
[2A]-[2A]-4A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[2]	20	1100	1980	4	20	2175	2132.5	24.40	24.48	0.08
[2A]-[2A]-[4A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[2]	20	1100	1980	[4]	20	2175	2132.5	24.40	24.28	-0.12
2A-2A-29A-[30A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	[30]	10	9820	2355	24.57	24.56	-0.01
2A-[2A]-29A-30A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	29	10	9715	722.5	30	10	9820	2355	24.57	24.46	-0.11
[2A]-2A-29A-30A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	30	10	9820	2355	24.57	24.63	0.06
2A-[2A]-29A-[30A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	29	10	9715	722.5	[30]	10	9820	2355	24.57	24.50	-0.07
[2A]-2A-29A-[30A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	[30]	10	9820	2355	24.57	24.56	-0.01
[2A]-[2A]-29A-30A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	29	10	9715	722.5	30	10	9820	2355	24.57	24.46	-0.11
[2A]-[2A]-29A-[30A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	29	10	9715	722.5	[30]	10	9820	2355	24.57	24.66	0.09
2A-2A-29A-[30A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	2	20	1100	1980	29	10	9715	722.5	22.63	22.66	0.03
2A-[2A]-29A-30A	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[2]	20	1100	1980	29	10	9715	722.5	22.63	22.65	0.02
[2A]-2A-29A-30A	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	2	20	1100	1980	29	10	9715	722.5	22.63	22.43	-0.2
2A-[2A]-29A-[30A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[2]	20	1100	1980	29	10	9715	722.5	22.63	22.72	0.09
[2A]-2A-29A-[30A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	2	20	1100	1980	29	10	9715	722.5	22.63	22.43	-0.2
[2A]-[2A]-29A-30A	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[2]	20	1100	1980	29	10	9715	722.5	22.63	22.62	-0.01
[2A]-[2A]-29A-[30A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[2]	20	1100	1980	29	10	9715	722.5	22.63	22.48	-0.15
2A-2A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	30	10	9820	2355	[66]	20	66786	2165	24.57	24.67	0.1
2A-2A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[30]	10	9820	2355	66	20	66786	2165	24.57	24.52	-0.05
2A-[2A]-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	30	10	9820	2355	66	20	66786	2165	24.57	24.60	0.03
[2A]-2A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	30	10	9820	2355	66	20	66786	2165	24.57	24.67	0.1
2A-2A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[30]	10	9820	2355	[66]	20	66786	2165	24.57	24.59	0.02
2A-[2A]-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	30	10	9820	2355	[66]	20	66786	2165	24.57	24.47	-0.1
2A-[2A]-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[30]	10	9820	2355	66	20	66786	2165	24.57	24.46	-0.11
[2A]-2A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	30	10	9820	2355	[66]	20	66786	2165	24.57	24.61	0.04
[2A]-2A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[30]	10	9820	2355	66	20	66786	2165	24.57	24.65	0.08
[2A]-[2A]-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	30	10	9820	2355	66	20	66786	2165	24.57	24.64	0.07
2A-[2A]-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[30]	10	9820	2355	[66]	20	66786	2165	24.57	24.50	-0.07
[2A]-2A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[30]	10	9820	2355	[66]	20	66786	2165	24.57	24.65	0.08
[2A]-[2A]-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	30	10	9820	2355	[66]	20	66786	2165	24.57	24.54	-0.03
[2A]-[2A]-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[30]	10	9820	2355	66	20	66786	2165	24.57	24.41	-0.16
[2A]-[2A]-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[30]	10	9820	2355	[66]	20	66786	2165	24.57	24.55	-0.02
2A-2A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	2	20	1100	1980	[66]	20	66786	2165	22.63	22.68	0.05
2A-2A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	2	20	1100	1980	66	20	66786	2165	22.63	22.60	-0.03
2A-[2A]-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[2]	20	1100	1980	66	20	66786	2165	22.63	22.69	0.06
[2A]-2A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	2	20	1100	1980	66	20	66786	2165	22.63	22.64	0.01
2A-2A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	2	20	1100	1980	[66]	20	66786	2165	22.63	22.56	-0.07
2A-[2A]-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[2]	20	1100	1980	[66]	20	66786	2165	22.63	22.72	0.09
2A-[2A]-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[2]	20	1100	1980	66	20	66786	2165	22.63	22.44	-0.19
[2A]-2A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	2	20	1100	1980	[66]	20	66786	2165	22.63	22.69	0.06
[2A]-2A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	2	20	1100	1980	66	20	66786	2165	22.63	22.53	-0.1
[2A]-[2A]-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[2]	20	1100	1980	66	20	66786	2165	22.63	22.44	-0.19
2A-[2A]-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[2]	20	1100	1980	[66]	20	66786	2165	22.63	22.60	-0.03
[2A]-2A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	2	20	1100	1980	[66]	20	66786	2165	22.63	22.61	-0.02
[2A]-[2A]-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[2]	20	1100	1980	[66]	20	66786	2165	22.63	22.47	-0.16
[2A]-[2A]-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[2]	20	1100	1980	66	20	66786	2165	22.63	22.65	0.02
[2A]-[2A]-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[2]	20	1100	1980	[66]	20	66786	2165	22.63	22.50	-0.13
2A-2A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	30	10	9820	2355	24.40	24.24	-0.16
2A-2A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	[30]	10	9820	2355	24.40	24.37	-0.03
2A-[2A]-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	30	10	9820	2355	24.40	24.39	-0.01
[2A]-2A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	30	10	9820	2355	24.40	24.20	-0.2
2A-2A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	[30]	10	9820	2355	24.40	24.33	-0.07
2A-[2A]-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	30	10	9820	2355	24.40	24.37	-0.03
2A-[2A]-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	[30]	10	9820	2355	24.40	24.32	-0.08
[2A]-2A-30A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	30	10	9820	2355	24.40	24.31	-0.09
[2A]-2A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	[30]	10	9820	2355	24.40	24.42	0.02
[2A]-[2A]-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	30	10	9820	2355	24.40	24.22	-0.18
2A-[2A]-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	[30]	10	9820	2355	24.40	24.44	0.04
[2A]-2A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	[30]	10	9820	2355	24.40	24.27	-0.13
[2A]-[2A]-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	30	10	9820	2355	24.40	24.32	-0.08
[2A]-[2A]-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	[30]	10	9820	2355	24.40	24.22	-0.18
[2A]-[2A]-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	[30]	10	9820	2355	24.40	24.20	-0.2
2A-2A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	66536	2140	66	20	67036	2190	24.57	24.45	-0.12
2A-[2A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	20	66536	2140	66	20	67036	2190	24.57	24.42	-0.15
[2A]-2A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	20	66536	2140	66	20	67036	2190	24.57	24.40	-0.17
2A-2A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	66536	2140	[66]	20	67036	2190	24.57	24.47	-0.1
2A-[2A]-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66536	2140	66	20	67036	2190	24.57	24.38	-0.19
[2A]-2A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	66536	2140	66	20	67036	2190	24.57	24.64	0.07
[2A]-[2A]-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	20	66536	2140	66	20	67036	2190	24.57	24.51	-0.06
2A-[2A]-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66536	2140	[66]	20	67036	2190	24.57	24.56	-0.01
[2A]-2A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	66536	2140	[66]	20	67036	2190	24.57	24.63	0.06
[2A]-[2A]-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66536	2140	66	20	67036	2190	24.57	24.39	-0.18
[2A]-[2A]-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66536	2140	[66]	20	67036	2190	24.57	24.46	-0.11
2A-2A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	2	20	1100	1980	24.40	24.41	0.01
2A-[2A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	[2]	20	1100	1980	24.40	24.42	0.02
[2A]-2A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	2	20	1100	1980	24.40	24.49	0.09
2A-2A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	2	20	700	1940	2	20	1100	1980	24.40	24.25	-0.15
2A-[2A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	[2]	20	1100	1980	24.40	24.25	-0.15
[2A]-2A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	2	20	1100	1980	24.40	24.20	-0.2
[2A]-[2A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	[2]	20	1100	1980	24.40	24.50	0.1
2A-[2A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	2	20	700	1940	[2]	20	1100	1980	24.40	24.25	-0.15
[2A]-2A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	[2]	20	700	1940	2	20	1100	1980	24.40	24.46	0.06
[2A]-[2A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	[2]	20	1100	1980	24.40	24.45	0.05
[2A]-[2A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	[2]	20	700	1940	[2]	20	1100	1980	24.40	24.31	-0.09
2A-2A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.60	0.03
2A-[2A]-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	10	66486	2135	66	10	66585	2144.9	24.57	24.61	0.04
[2A]-2A-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	10	66486	2135	66	10	66585	2144.9	24.57	24.42	-0.15
2A-[2A]-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.46	-0.11
[2A]-2A-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.59	0.02
[2A]-[2A]-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	10	66486	2135	66	10	66585	2144.9	24.57	24.44	-0.13

[2A]-[2A]-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.42	-0.15
2A-2A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	2	20	700	1940	2	20	1100	1980	24.38	24.44	0.06
2A-[2A]-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	2	20	700	1940	[2]	20	1100	1980	24.38	24.25	-0.13
[2A]-2A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	2	20	1100	1980	24.38	24.37	-0.01
2A-[2A]-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	2	20	700	1940	[2]	20	1100	1980	24.38	24.33	-0.05
[2A]-2A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	[2]	20	700	1940	2	20	1100	1980	24.38	24.29	-0.09
[2A]-[2A]-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	[2]	20	1100	1980	24.38	24.33	-0.05
[2A]-[2A]-[66B]	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	[2]	20	1100	1980	24.38	24.30	-0.08
2A-2A-[66C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.52	-0.05
2A-[2A]-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.57	24.42	-0.15
[2A]-2A-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.57	24.55	-0.02
2A-[2A]-[66C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.63	0.06
[2A]-2A-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.41	-0.16
[2A]-[2A]-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.57	24.52	-0.05
[2A]-[2A]-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.48	-0.09
2A-2A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	700	1940	2	20	1100	1980	24.40	24.45	0.05
2A-[2A]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	700	1940	[2]	20	1100	1980	24.40	24.42	0.02
[2A]-2A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	700	1940	2	20	1100	1980	24.40	24.30	-0.1
2A-[2A]-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	700	1940	[2]	20	1100	1980	24.40	24.22	-0.18
[2A]-2A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	700	1940	2	20	1100	1980	24.40	24.44	0.04
[2A]-[2A]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	700	1940	[2]	20	1100	1980	24.40	24.25	-0.15
[2A]-[2A]-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	700	1940	[2]	20	1100	1980	24.40	24.24	-0.16
2C-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	1058	1975.8	[66]	20	66536	2140	66	20	67036	2190	24.57	24.66	0.09
[2C]-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	66	20	66536	2140	66	20	67036	2190	24.57	24.62	0.05
2C-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	1058	1975.8	[66]	20	66536	2140	[66]	20	67036	2190	24.57	24.60	0.03
[2C]-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	[66]	20	66536	2140	66	20	67036	2190	24.57	24.43	-0.14
[2C]-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	[66]	20	66536	2140	[66]	20	67036	2190	24.57	24.66	0.09
2C-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	1058	1975.8	2	5	1175	1987.5	24.40	24.28	-0.12
[2C]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	1058	1975.8	[2]	5	1175	1987.5	24.40	24.26	-0.14
2C-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	2	20	1058	1975.8	2	5	1175	1987.5	24.40	24.45	0.05
[2C]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	1058	1975.8	[2]	5	1175	1987.5	24.40	24.20	-0.2
[2C]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	[2]	20	1058	1975.8	[2]	5	1175	1987.5	24.40	24.42	0.02
2A-2A-[66A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	66786	2165	71	20	68761	634.5	24.57	24.42	-0.15
2A-[2A]-66A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	20	66786	2165	71	20	68761	634.5	24.57	24.40	-0.17
[2A]-2A-66A-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	66	20	66786	2165	71	20	68761	634.5	24.57	24.67	0.1
2A-[2A]-[66A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66786	2165	71	20	68761	634.5	24.57	24.51	-0.06
[2A]-2A-[66A]-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	[66]	20	66786	2165	71	20	68761	634.5	24.57	24.66	0.09
[2A]-[2A]-66A-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	66	20	66786	2165	71	20	68761	634.5	24.57	24.65	0.08
[2A]-[2A]-[66A]-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66786	2165	71	20	68761	634.5	24.57	24.63	0.06
2A-2A-[66A]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	71	20	68761	634.5	24.40	24.43	0.03
2A-[2A]-66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	71	20	68761	634.5	24.40	24.31	-0.09
[2A]-2A-66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	71	20	68761	634.5	24.40	24.35	-0.05
2A-[2A]-[66A]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	71	20	68761	634.5	24.40	24.25	-0.15
[2A]-2A-[66A]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	71	20	68761	634.5	24.40	24.32	-0.08
[2A]-[2A]-66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	71	20	68761	634.5	24.40	24.22	-0.18
[2A]-[2A]-[66A]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	71	20	68761	634.5	24.40	24.23	-0.17
2A-2A-[66A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	2	20	1100	1980	[66]	20	66838	2170.2	24.40	24.35	-0.05
2A-[2A]-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[2]	20	1100	1980	66	20	66838	2170.2	24.40	24.21	-0.19
[2A]-2A-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	2	20	1100	1980	66	20	66838	2170.2	24.40	24.47	0.07
2A-[2A]-[66A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[2]	20	1100	1980	[66]	20	66838	2170.2	24.40	24.30	-0.1
[2A]-2A-[66A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	2	20	1100	1980	[66]	20	66838	2170.2	24.40	24.23	-0.17
[2A]-[2A]-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[2]	20	1100	1980	66	20	66838	2170.2	24.40	24.37	-0.03
[2A]-[2A]-[66A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[2]	20	1100	1980	[66]	20	66838	2170.2	24.40	24.43	0.03
2A-[4A]-4A-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	5	10	2525	881.5	24.57	24.59	0.02
[2A]-4A-4A-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	5	10	2525	881.5	24.57	24.67	0.1
2A-[4A]-[4A]-5A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	5	10	2525	881.5	24.57	24.63	0.06
[2A]-[4A]-4A-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	5	10	2525	881.5	24.57	24.40	-0.17
[2A]-[4A]-[4A]-5A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	5	10	2525	881.5	24.57	24.62	0.05
2A-[4A]-4A-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	2	20	700	1940	5	10	2525	881.5	24.06	24.13	0.07
[2A]-4A-4A-5A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	[2]	20	700	1940	5	10	2525	881.5	24.06	24.06	0
2A-[4A]-[4A]-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	2	20	700	1940	5	10	2525	881.5	24.06	24.13	0.07
[2A]-[4A]-4A-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	[2]	20	700	1940	5	10	2525	881.5	24.06	24.15	0.09
[2A]-[4A]-[4A]-5A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	[2]	20	700	1940	5	10	2525	881.5	24.06	24.13	0.07
2A-[4A]-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[4]	20	2050	2120	4	20	2300	2145	2	20	700	1940	24.32	24.17	-0.15
[2A]-4A-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	4	20	2050	2120	4	20	2300	2145	[2]	20	700	1940	24.32	24.19	-0.13
2A-[4A]-[4A]-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[4]	20	2050	2120	[4]	20	2300	2145	2	20	700	1940	24.32	24.37	0.05
[2A]-[4A]-4A-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[4]	20	2050	2120	4	20	2300	2145	[2]	20	700	1940	24.32	24.38	0.06
[2A]-[4A]-[4A]-5A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[4]	20	2050	2120	[4]	20	2300	2145	[2]	20	700	1940	24.32	24.34	0.02
2A-[4A]-4A-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	12	10	5095	707.5	24.57	24.38	-0.19
[2A]-4A-4A-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	12	10	5095	707.5	24.57	24.60	0.03
2A-[4A]-[4A]-12A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	12	10	5095	707.5	24.57	24.37	-0.2
[2A]-[4A]-4A-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	12	10	5095	707.5	24.57	24.38	-0.19
[2A]-[4A]-[4A]-12A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	12	10	5095	707.5	24.57	24.39	-0.18
2A-[4A]-4A-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	2	20	700	1940	12	10	5095	737.5	24.12	24.17	0.05
[2A]-4A-4A-12A	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	[2]	20	700	1940	12	10	5095	737.5	24.12	23.92	-0.2
2A-[4A]-[4A]-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	2	20	700	1940	12	10	5095	737.5	24.12	24.20	0.08
[2A]-[4A]-4A-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	[2]	20	700	1940	12	10	5095	737.5	24.12	23.95	-0.17
[2A]-[4A]-[4A]-12A	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	[2]	20	700	1940	12	10	5095	737.5	24.12	23.96	-0.16
2A-[4A]-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	2	20	700	1940	24.79	24.68	-0.11
[2A]-4A-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	4	20	2050	2120	4	20	2300	2145	[2]	20	700	1940	24.79	24.79	0
2A-[4A]-[4A]-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	2	20	700	1940	24.79	24.67	-0.12
[2A]-[4A]-4A-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[4]	20	2050	2120	4	20	2300	2145	[2]	20	700	1940	24.79	24.80	0.01
[2A]-[4A]-[4A]-12A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[4]	20	2050	2120	[4]	20	2300	2145	[2]	20	700	1940	24.79	24.60	-0.19
2A-[4A]-5B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2300	2145	5	5	2425	871.5	5	10	2497	878.7	24.57	24.64	0.07
[2A]-4A-5B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2300	2145	5	5	2425	871.5	5	10	2497	878.7	24.57	24.55	-0.02
[2A]-[4A]-5B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2300	2145	5	5	2425	871.5	5	10	2497	878.7	24.57	24.60	0.03
2A-[4A]-5B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940	5	5	2425	871.5	5	10	2497	878.7	24.12	24.21	0.09
[2A]-4A-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940	5	5	2425	871.5	5	10	2497	878.7	24.12	24.17	0.05
[2A]-[4A]-5B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940	5	5	2425	871.5	5	10	2497	878.7	24.12	24.11	-0.01
2A-[4A]-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	2	20	700	1940	[4]	20	2300	2145	24.32	24.23	-0.09
[2A]-4A-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[2]	20	700	1940	4	20	2300	2145	24.32	24.19	-0.13
[2A]-[4A]-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[2]	20	700	1940	[4]	20	2300	2145	24.32	24.14	-0.18
2A-[4A]-12B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2175	2132.5	12	5	5048	732.8	12	10	5120	740	24.57	24.55	-0.02
[2A]-4A-12B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	4	20	2175	2132.5	12	5	5048	732.8	12	10	5120	740	24.57	24.63	0.06
[2A]-[4A]-12B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[4]	20	2175	2132.5	12	5	5048	732.8	12	10	5120	740	24.57	24.49	-0.08
2A-[4A]-12B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	2	20	700	1940	12	5	5048	732.8	12	10	5120	740	24.12	24.04	-0.08
[2A]-4A-12B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940	12	5	5048	732.8	12	10	5120	740	24.12	24.22	0.1
[2A]-[4A]-12B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[2]	20	700	1940	12	5	5048	732.8	12	10	5120	740	24.12	23.92	-0.2
2A-[4A]-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	5	5047	732.7	2	20	700	1940	[4]	20	2300	2145	24.79	24.84	0.05
[2A]-4A-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	5	5047	732.7	[2]	20	700	1940	4	20	2300	2145	24.79	24.87	0.08
[2A]-[4A]-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	5	5047	732.7	[2]	20	700	1940	[4]	20	2300	2145	24.79	24.73	-0.06
2A-5A-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	48	20	55990	3625	[66]	20	66786	2165	24.57	24.52	-0.05
2A-5A-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	[48]	20	55990	3625	66	20	66786	2165	24.57	24.49	-0.08

2A-5A-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	48	20	55990	3625	[66]	20	66786	2165	24.57	24.52	-0.05
2A-5A-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	[48]	20	55990	3625	66	20	66786	2165	24.57	24.49	-0.08
[2A]-5A-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	48	20	55990	3625	66	20	66786	2165	24.57	24.59	0.02
2A-5A-[48A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	[48]	20	55990	3625	[66]	20	66786	2165	24.57	24.49	-0.08
[2A]-5A-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	48	20	55990	3625	[66]	20	66786	2165	24.57	24.61	0.04
[2A]-5A-[48A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	[48]	20	55990	3625	66	20	66786	2165	24.57	24.57	0
[2A]-5A-[48A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	[48]	20	55990	3625	[66]	20	66786	2165	24.57	24.56	-0.01
2A-5A-48A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940	48	20	55990	3625	[66]	20	66786	2165	24.32	24.16	-0.16
2A-5A-[48A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940	[48]	20	55990	3625	66	20	66786	2165	24.32	24.34	0.02
[2A]-5A-48A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940	48	20	55990	3625	66	20	66786	2165	24.32	24.33	0.01
2A-5A-[48A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940	[48]	20	55990	3625	[66]	20	66786	2165	24.32	24.31	-0.01
[2A]-5A-48A-[66A]	[5]	5	20425	826.5	2425	871.5	QPSK	1	24	2	20	700	1940	48	20	55990	3625	[66]	20	66786	2165	24.32	24.40	0.08
[2A]-5A-[48A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940	[48]	20	55990	3625	66	20	66786	2165	24.32	24.24	-0.08
[2A]-5A-[48A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[2]	20	700	1940	[48]	20	55990	3625	[66]	20	66786	2165	24.32	24.28	-0.04
2A-5A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	48	20	55990	3625	2	20	700	1940	24.40	24.45	0.05
2A-5A-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	[48]	20	55990	3625	2	20	700	1940	24.40	24.39	-0.01
[2A]-5A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	48	20	55990	3625	[2]	20	700	1940	24.40	24.29	-0.11
2A-5A-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	[48]	20	55990	3625	2	20	700	1940	24.40	24.49	0.09
[2A]-5A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	48	20	55990	3625	[2]	20	700	1940	24.40	24.38	-0.02
[2A]-5A-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	[48]	20	55990	3625	2	20	700	1940	24.40	24.46	0.06
[2A]-5A-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	5	5	2425	871.5	[48]	20	55990	3625	[2]	20	700	1940	24.40	24.22	-0.18
2A-[7A]-7A-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[7]	20	2850	2630	7	20	3350	2680	13	5	5230	751	24.57	24.57	0
[2A]-7A-7A-13A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	2850	2630	7	20	3350	2680	13	5	5230	751	24.57	24.41	-0.16
2A-[7A]-[7A]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[7]	20	2850	2630	[7]	20	3350	2680	13	5	5230	751	24.57	24.61	0.04
[2A]-[7A]-7A-13A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[7]	20	2850	2630	7	20	3350	2680	13	5	5230	751	24.57	24.54	-0.03
[2A]-[7A]-[7A]-13A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[7]	20	2850	2630	[7]	20	3350	2680	13	5	5230	751	24.57	24.52	-0.05
2A-[7A]-7A-13A	[7]	15	21100	2535	3100	2655	QPSK	1	0	7	20	2850	2630	2	20	700	1940	13	5	5230	751	23.74	23.59	-0.15
[2A]-7A-7A-13A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	2850	2630	[2]	20	700	1940	13	5	5230	751	23.74	23.69	-0.05
2A-[7A]-[7A]-13A	[7]	15	21100	2535	3100	2655	QPSK	1	0	[7]	20	2850	2630	2	20	700	1940	13	5	5230	751	23.74	23.68	-0.06
[2A]-[7A]-7A-13A	[7]	15	21100	2535	3100	2655	QPSK	1	0	7	20	2850	2630	[2]	20	700	1940	13	5	5230	751	23.74	23.61	-0.13
[2A]-[7A]-[7A]-13A	[7]	15	21100	2535	3100	2655	QPSK	1	0	[7]	20	2850	2630	[2]	20	700	1940	13	5	5230	751	23.74	23.77	0.03
2A-[7A]-7A-13A	13	5	23230	782	5230	751	QPSK	1	12	[7]	20	2850	2630	7	20	3350	2680	2	20	700	1940	24.69	24.51	-0.18
[2A]-7A-7A-13A	13	5	23230	782	5230	751	QPSK	1	12	7	20	2850	2630	7	20	3350	2680	[2]	20	700	1940	24.69	24.54	-0.15
2A-[7A]-[7A]-13A	13	5	23230	782	5230	751	QPSK	1	12	[7]	20	2850	2630	[7]	20	3350	2680	2	20	700	1940	24.69	24.73	0.04
[2A]-[7A]-7A-13A	13	5	23230	782	5230	751	QPSK	1	12	[7]	20	2850	2630	7	20	3350	2680	[2]	20	700	1940	24.69	24.57	-0.12
[2A]-[7A]-[7A]-13A	13	5	23230	782	5230	751	QPSK	1	12	[7]	20	2850	2630	[7]	20	3350	2680	[2]	20	700	1940	24.69	24.61	-0.08
2A-12A-[66C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5095	737.5	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.41	-0.16
[2A]-12A-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5095	737.5	66	20	67036	2190	66	20	66838	2170.2	24.57	24.45	-0.12
[2A]-12A-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5095	737.5	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.64	0.07
2A-12A-[66C]	12	5	23095	707.5	5095	737.5	QPSK	1	12	2	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.79	24.76	-0.03
[2A]-12A-66C	12	5	23095	707.5	5095	737.5	QPSK	1	12	[2]	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.79	24.84	0.05
[2A]-12A-[66C]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[2]	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.79	24.76	-0.03
2A-12A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	700	1940	12	10	5095	737.5	24.40	24.25	-0.15
[2A]-12A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	700	1940	12	10	5095	737.5	24.40	24.23	-0.17
[2A]-12A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	700	1940	12	10	5095	737.5	24.40	24.50	0.1
2A-13A-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[66]	20	66786	2165	48	20	55990	3625	24.57	24.44	-0.13
2A-13A-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	66786	2165	[48]	20	55990	3625	24.57	24.37	-0.2
[2A]-13A-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	66786	2165	48	20	55990	3625	24.57	24.58	0.01
2A-13A-[48A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[66]	20	66786	2165	[48]	20	55990	3625	24.57	24.67	0.1
[2A]-13A-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[66]	20	66786	2165	48	20	55990	3625	24.57	24.60	0.03
[2A]-13A-[48A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	66786	2165	[48]	20	55990	3625	24.57	24.49	-0.08
[2A]-13A-[48A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[66]	20	66786	2165	[48]	20	55990	3625	24.57	24.63	0.06
2A-13A-48A-[66A]	13	5	23230	782	5230	751	QPSK	1	12	2	20	700	1940	[66]	20	66786	2165	48	20	55990	3625	24.69	24.67	-0.02
2A-13A-[48A]-66A	13	5	23230	782	5230	751	QPSK	1	12	2	20	700	1940	66	20	66786	2165	[48]	20	55990	3625	24.69	24.67	-0.02
[2A]-13A-48A-66A	13	5	23230	782	5230	751	QPSK	1	12	[2]	20	700	1940	66	20	66786	2165	48	20	55990	3625	24.69	24.55	-0.14
2A-13A-[48A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	2	20	700	1940	[66]	20	66786	2165	[48]	20	55990	3625	24.69	24.73	0.04
[2A]-13A-48A-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[2]	20	700	1940	[66]	20	66786	2165	48	20	55990	3625	24.69	24.64	-0.05
[2A]-13A-[48A]-66A	13	5	23230	782	5230	751	QPSK	1	12	[2]	20	700	1940	66	20	66786	2165	[48]	20	55990	3625	24.69	24.67	-0.02
[2A]-13A-[48A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[2]	20	700	1940	[66]	20	66786	2165	[48]	20	55990	3625	24.69	24.52	-0.17
2A-13A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	13	10	5230	751	48	20	55990	3625	24.40	24.34	-0.06
2A-13A-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	13	10	5230	751	[48]	20	55990	3625	24.40	24.28	-0.12
[2A]-13A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	13	10	5230	751	48	20	55990	3625	24.40	24.34	-0.06
2A-13A-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	13	10	5230	751	[48]	20	55990	3625	24.40	24.22	-0.18
[2A]-13A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	13	10	5230	751	48	20	55990	3625	24.40	24.35	-0.05
[2A]-13A-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	13	10	5230	751	[48]	20	55990	3625	24.40	24.45	0.05
[2A]-13A-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	13	10	5230	751	[48]	20	55990	3625	24.40	24.25	-0.15
2A-13A-[66C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.61	0.04
[2A]-13A-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2190	66	20	66838	2170.2	24.57	24.54	-0.03
[2A]-13A-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[66]	20	67036	2190	[66]	20	66838	2170.2	24.57	24.63	0.06
2A-13A-[66C]	13	5	23230	782	5230	751	QPSK	1	12	2	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.69	24.54	-0.15
[2A]-13A-66C	13	5	23230	782	5230	751	QPSK	1	12	[2]	20	700	1940	66	20	67036	2190	66	20	66838	2170.2	24.69	24.54	-0.15
[2A]-13A-[66C]	13	5	23230	782	5230	751	QPSK	1	12	[2]	20	700	1940	[66]	20	67036	2190	[66]	20	66838	2170.2	24.69	24.59	-0.1
2A-13A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	700	1940	13	10	5230	751	24.40	24.35	-0.05
[2A]-13A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	700	1940	13	10	5230	751	24.40	24.38	-0.02
[2A]-13A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	700	1940	13	10	5230	751	24.40	24.25	-0.15
2A-29A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	30	10	9820	2355	[66]	20	66786	2165	29	10	9715	722.5	24.57	24.56	-0.01
2A-29A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[30]	10	9820	2355	66	20	66786	2165	29	10	9715	722.5	24.57	24.54	-0.03
[2A]-29A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2165	29	10	9715	722.5	24.57	24.44	-0.13
2A-29A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[30]	10	9820	2355	[66]	20	66786	2165	29	10	9715	722.5	24.57	24.42	-0.15
[2A]-29A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	30	10	9820	2355	[66]	20	66786	2165	29	10	9715	722.5	24.57	24.54	-0.03
[2A]-29A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[30]	10	9820	2355	66	20	66786	2165	29	10	9715	722.5	24.57	24.60	0.03
[2A]-29A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[30]	10	9820	2355	[66]	20	66786	2165	29	10	9715	722.5	24.57	24.52	-0.05
2A-29A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[66]	20	66786	2165	29	10	9715	722.5	22.63	22.51	-0.12
2A-29A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	66	20	66786	2165	29	10	9715	722.5	22.63	22.68	0.05
[2A]-29A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	66	20	66786	2165	29	10	9715	722.5	22.63	22.68	0.05
2A-29A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	2	20	700	1940	[66]	20	66786	2165	29	10	9715	722.5	22.63	22.54	-0.09
[2A]-29A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[66]	20	66786	2165	29	10	9715	722.5	22.63	22.59	-0.04
[2A]-29A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	66	20	66786	2165	29	10	9715	722.5	22.63	22.55	-0.08
[2A]-29A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[2]	20	700	1940	[66]	20	66786	2165	29	10	9715	722.5	22.63	22.71	0.08
2A-29A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	30	10	9820	2355	2	20	700	1940	29	10	9715	722.5	24.40	24.20	-0.2
2A-29A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[30]	10	9820	2355	2	20	700	1940	29	10	9715	722.5	24.40	24.32	-0.08
[2A]-29A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	30	10	9820	2355	[2]	20	700	1940	29	10	9715	722.5	24.40	24.23	-0.17
2A-29A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[30]	10	9820	2355	2	20	700	1940	29	10	9715	722.5	24.40	24.39	-0.01
[2A]-29A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	30	10	9820	2355	[2]	20	700	1940	29	10	9715	722.5	24.40	24.42	0.02
[2A]-29A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[30]	10	9820	2355	[2]	20	700	1940	29	10	9715	722.5	24.40	24.21	-0.19
[2A]-29A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[30]	10	9820	2355	[2]	20	700	1940	29	10	9715	722.5	24.40	24.45	0.05
2A-48A-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	48	20	55340	3560	48	20	56640	3690	24.57	24.64	0.07
2A-[48A]-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	[48]	20	55340	3560	48	20	56640	3690	24.57	24.55	-0.02
[2A]-48A-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	48	20	55340	3560	48	20	56640	3690	24.57	24.57	0
2A-[48A]-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	[48]	20	55340	3560	48	20	56640	3690	24.57	24.63	0.06

2A-[48A]-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	[48]	20	55340	3560	[48]	20	56640	3690	24.57	24.37	-0.2
[2A]-48A-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	48	20	55340	3560	48	20	56640	3690	24.57	24.50	-0.07
[2A]-[48A]-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	[48]	20	55340	3560	48	20	56640	3690	24.57	24.64	0.07
2A-[48A]-[48A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	[48]	20	55340	3560	[48]	20	56640	3690	24.57	24.48	-0.09
[2A]-[48A]-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	[48]	20	55340	3560	48	20	56640	3690	24.57	24.63	0.06
[2A]-[48A]-[48A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	[48]	20	55340	3560	[48]	20	56640	3690	24.57	24.47	-0.1
[2A]-[48A]-[48A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	[48]	20	55340	3560	[48]	20	56640	3690	24.57	24.60	0.03
2A-48A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	48	20	55340	3560	48	20	56640	3690	24.40	24.41	0.01
2A-[48A]-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55340	3560	48	20	56640	3690	24.40	24.31	-0.09
[2A]-48A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	48	20	55340	3560	48	20	56640	3690	24.40	24.41	0.01
2A-[48A]-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55340	3560	48	20	56640	3690	24.40	24.29	-0.11
2A-[48A]-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55340	3560	[48]	20	56640	3690	24.40	24.29	-0.11
[2A]-48A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	48	20	55340	3560	48	20	56640	3690	24.40	24.37	-0.03
[2A]-[48A]-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[48]	20	55340	3560	48	20	56640	3690	24.40	24.49	0.09
2A-[48A]-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55340	3560	[48]	20	56640	3690	24.40	24.32	-0.08
[2A]-[48A]-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[48]	20	55340	3560	48	20	56640	3690	24.40	24.41	0.01
[2A]-[48A]-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[48]	20	55340	3560	[48]	20	56640	3690	24.40	24.22	-0.18
[2A]-[48A]-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[48]	20	55340	3560	[48]	20	56640	3690	24.40	24.29	-0.11
2A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.44	-0.13
2A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.57	24.44	-0.13
[2A]-48C-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.62	0.05
2A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.57	24.49	-0.08
[2A]-48C-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.46	-0.11
[2A]-[48C]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2165	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.57	24.42	-0.15
[2A]-[48C]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2165	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.57	24.66	0.09
2A-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.43	0.03
2A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.21	-0.19
[2A]-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.29	-0.11
2A-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.42	0.02
[2A]-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.44	0.04
[2A]-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.45	0.05
[2A]-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.40	0
2A-48A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	48	20	55990	3625	24.57	24.45	-0.12
2A-[48A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	[48]	20	55990	3625	24.57	24.42	-0.15
[2A]-48A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	48	20	55990	3625	24.57	24.59	0.02
2A-48A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	48	20	55990	3625	24.57	24.62	0.05
2A-[48A]-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	[48]	20	55990	3625	24.57	24.66	0.09
[2A]-48A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	48	20	55990	3625	24.57	24.44	-0.13
[2A]-[48A]-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	[48]	20	55990	3625	24.57	24.61	0.04
2A-[48A]-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	[48]	20	55990	3625	24.57	24.66	0.09
[2A]-48A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	48	20	55990	3625	24.57	24.53	-0.04
[2A]-[48A]-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	[48]	20	55990	3625	24.57	24.49	-0.08
[2A]-[48A]-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	[48]	20	55990	3625	24.57	24.49	-0.08
2A-48A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	48	20	55990	3625	24.40	24.38	-0.02
2A-[48A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	[48]	20	55990	3625	24.40	24.26	-0.14
[2A]-48A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	48	20	55990	3625	24.40	24.35	-0.05
2A-48A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	2	20	700	1940	48	20	55990	3625	24.40	24.27	-0.13
2A-[48A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	[48]	20	55990	3625	24.40	24.42	0.02
[2A]-48A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	48	20	55990	3625	24.40	24.28	-0.12
[2A]-[48A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	[48]	20	55990	3625	24.40	24.32	-0.08
2A-[48A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	2	20	700	1940	[48]	20	55990	3625	24.40	24.34	-0.06
[2A]-48A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	[2]	20	700	1940	48	20	55990	3625	24.40	24.42	0.02
[2A]-[48A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	[48]	20	55990	3625	24.40	24.30	-0.1
[2A]-[48A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	[2]	20	700	1940	[48]	20	55990	3625	24.40	24.44	0.04
2A-66A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	67036	2190	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.52	-0.05
2A-[66A]-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	67036	2190	66	10	66486	2135	66	10	66585	2144.9	24.57	24.38	-0.19
[2A]-66A-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	67036	2190	66	10	66486	2135	66	10	66585	2144.9	24.57	24.44	-0.13
2A-[66A]-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	67036	2190	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.47	-0.1
[2A]-66A-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	67036	2190	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.41	-0.16
[2A]-[66A]-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	67036	2190	66	10	66486	2135	66	10	66585	2144.9	24.57	24.41	-0.16
[2A]-[66A]-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	67036	2190	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.44	-0.13
2A-66A-[66B]	66	20	132572	1770	67036	2190	QPSK	1	99	[66]	10	66486	2135	[66]	10	66585	2144.9	2	20	700	1940	24.40	24.32	-0.08
2A-[66A]-66B	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	10	66486	2135	66	10	66585	2144.9	2	20	700	1940	24.40	24.43	0.03
[2A]-66A-66B	66	20	132572	1770	67036	2190	QPSK	1	99	66	10	66486	2135	66	10	66585	2144.9	[2]	20	700	1940	24.40	24.44	0.04
2A-[66A]-[66B]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	10	66486	2135	[66]	10	66585	2144.9	2	20	700	1940	24.40	24.20	-0.2
[2A]-66A-[66B]	66	20	132572	1770	67036	2190	QPSK	1	99	[66]	10	66486	2135	[66]	10	66585	2144.9	[2]	20	700	1940	24.40	24.38	-0.02
[2A]-[66A]-66B	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	10	66486	2135	66	10	66585	2144.9	[2]	20	700	1940	24.40	24.47	0.07
[2A]-[66A]-[66B]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	10	66486	2135	[66]	10	66585	2144.9	[2]	20	700	1940	24.40	24.32	-0.08
2A-66A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	2	20	700	1940	66	20	66786	2165	24.38	24.45	0.07
2A-[66A]-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	2	20	700	1940	[66]	20	66786	2165	24.38	24.27	-0.11
[2A]-66A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	66	20	66786	2165	24.38	24.27	-0.11
2A-[66A]-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	2	20	700	1940	[66]	20	66786	2165	24.38	24.45	0.07
[2A]-66A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	[2]	20	700	1940	66	20	66786	2165	24.38	24.42	0.04
[2A]-[66A]-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	[66]	20	66786	2165	24.38	24.23	-0.15
[2A]-[66A]-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	[2]	20	700	1940	[66]	20	66786	2165	24.38	24.20	-0.18
2A-[66A]-66A-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66536	2140	66	20	67036	2190	71	20	68761	634.5	24.57	24.53	-0.04
[2A]-66A-66A-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	66536	2140	66	20	67036	2190	71	20	68761	634.5	24.57	24.67	0.1
2A-[66A]-[66A]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66536	2140	[66]	20	67036	2190	71	20	68761	634.5	24.57	24.59	0.02
[2A]-[66A]-66A-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66536	2140	66	20	67036	2190	71	20	68761	634.5	24.57	24.53	-0.04
[2A]-[66A]-[66A]-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	66536	2140	[66]	20	67036	2190	71	20	68761	634.5	24.57	24.48	-0.09
2A-[66A]-66A-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	71	20	68761	634.5	24.40	24.50	0.1
[2A]-66A-66A-71A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	71	20	68761	634.5	24.40	24.22	-0.18
2A-[66A]-[66A]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	2	20	700	1940	71	20	68761	634.5	24.40	24.46	0.06
[2A]-[66A]-66A-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	[2]	20	700	1940	71	20	68761	634.5	24.40	24.27	-0.13
[2A]-[66A]-[66A]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	[2]	20	700	1940	71	20	68761	634.5	24.40	24.25	-0.15
2A-[66A]-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[66]	20	66536	2140	66	20	67036	2190	24.40	24.46	0.06
[2A]-66A-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	66	20	66536	2140	66	20	67036	2190	24.40	24.40	0
2A-[66A]-[66A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	2	20	700	1940	[66]	20	66536	2140	[66]	20	67036	2190	24.40	24.30	-0.1
[2A]-[66A]-66A-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66536	2140	66	20	67036	2190	24.40	24.21	-0.19
[2A]-[66A]-[66A]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[2]	20	700	1940	[66]	20	66536	2140	[66]	20	67036	2190	24.40	24.41	0.01
2A-[66C]-71A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	67036	2190	66	20	66838	2170.2	71	20	68761	634.5	24.57	24.65	0.08
[2A]-66C-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	66	20	67036	2190	66	20	66838	2170.2	71	20	68761	634.5	24.57	24.58	0.01
[2A]-[66C]-71A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[66]	20	67036	2190	[66]	20	66838	2170.2	71	20	68761	634.5	24.57	24.53	-0.04
2A-[66C]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	700	1940	71	20	68761	634.5	24.40	24.44	0.04
[2A]-66C-71A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	700	1940	71	20	68761	634.5	24.40	24.22	-0.18
[2A]-[66C]-71A	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	700	1940	71	20	68761	634.5	24.40	24.24	-0.16

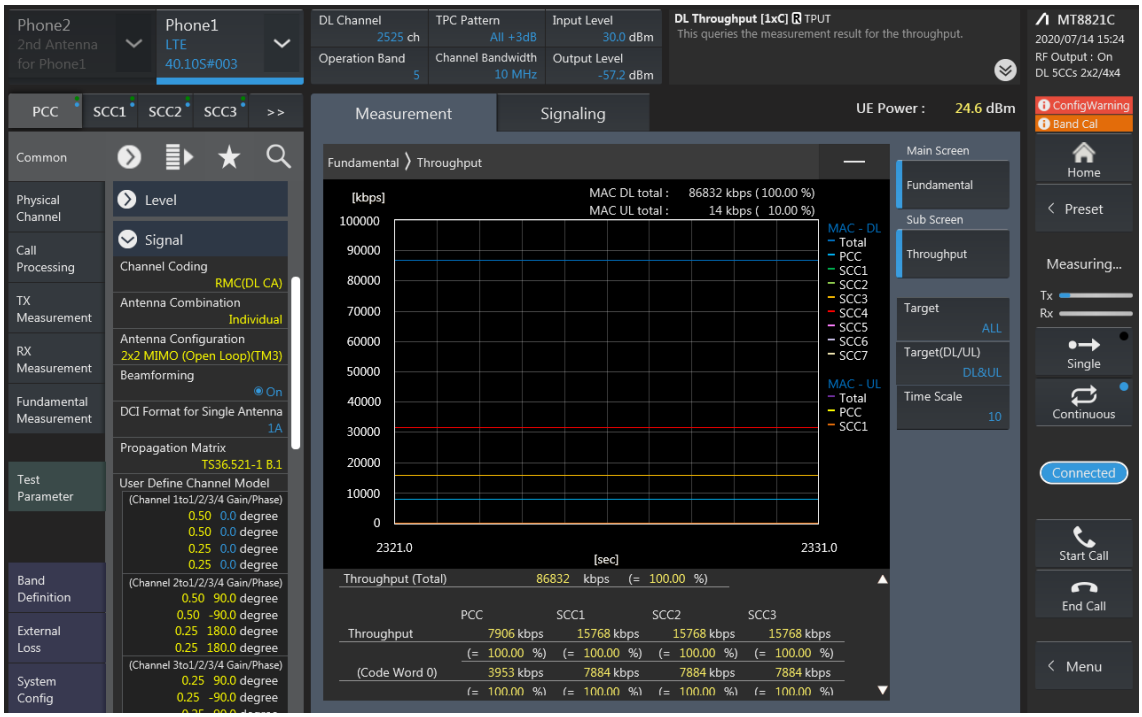
2A-[66C]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[66]	20	67036	2190	[66]	20	66838	2170.2	2	20	700	1940	24.40	24.40	0
[2A]-66C-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	66	20	67036	2190	66	20	66838	2170.2	[2]	20	700	1940	24.40	24.28	-0.12
[2A]-[66C]-71A	71	5	133447	695.5	68911	649.5	QPSK	1	12	[66]	20	67036	2190	[66]	20	66838	2170.2	[2]	20	700	1940	24.40	24.37	-0.03
4A-[4A]-5B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	5	5	2425	871.5	5	10	2497	878.7	24.12	23.95	-0.17
[4A]-4A-5B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	5	5	2425	871.5	5	10	2497	878.7	24.12	24.08	-0.04
[4A]-[4A]-5B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	5	5	2425	871.5	5	10	2497	878.7	24.12	24.13	0.01
4A-[4A]-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	4	20	2050	2120	[4]	20	2300	2145	24.32	24.26	-0.06
[4A]-4A-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[4]	20	2050	2120	4	20	2300	2145	24.32	24.13	-0.19
[4A]-[4A]-5B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[4]	20	2050	2120	[4]	20	2300	2145	24.32	24.26	-0.06
4A-[4A]-12B	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	12	5	5048	732.8	12	10	5120	740	24.12	23.93	-0.19
[4A]-4A-12B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	4	20	2050	2120	12	5	5048	732.8	12	10	5120	740	24.12	24.04	-0.08
[4A]-[4A]-12B	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[4]	20	2050	2120	12	5	5048	732.8	12	10	5120	740	24.12	24.19	0.07
4A-[4A]-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	5	5047	732.7	4	20	2050	2120	[4]	20	2300	2145	24.79	24.79	0
[4A]-4A-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	5	5047	732.7	[4]	20	2050	2120	4	20	2300	2145	24.79	24.72	-0.07
[4A]-[4A]-12B	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	5	5047	732.7	[4]	20	2050	2120	[4]	20	2300	2145	24.79	24.66	-0.13
4A-[48D]	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	[48]	20	55792	3605.2	[48]	20	55990	3625	[48]	20	56188	3644.8	24.12	24.13	0.01
[4A]-48D	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55792	3605.2	48	20	55990	3625	48	20	56188	3644.8	24.12	24.10	-0.02
[4A]-[48D]	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	[48]	20	55792	3605.2	[48]	20	55990	3625	[48]	20	56188	3644.8	24.12	24.03	-0.09
5A-5A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	[66]	20	66536	2140	66	20	67036	2190	24.32	24.15	-0.17
5A-5A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	[66]	20	66536	2140	[66]	20	67036	2190	24.32	24.23	-0.09
5A-5A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	5	10	2450	874	5	10	2600	889	24.40	24.23	-0.17
5A-5A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	5	10	2450	874	5	10	2600	889	24.40	24.47	0.07
5A-5A-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	[66]	10	66486	2135	[66]	10	66585	2144.9	24.32	24.33	0.01
5A-5A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	5	10	2450	874	5	10	2600	889	24.38	24.30	-0.08
5A-5A-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2600	889	[66]	20	67036	2190	[66]	20	66838	2170.2	24.32	24.18	-0.14
5A-5A-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	5	10	2450	874	5	10	2600	889	24.40	24.33	-0.07
5A-48A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55990	3625	[66]	20	66536	2140	66	20	67036	2190	24.32	24.16	-0.16
5A-[48A]-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55990	3625	66	20	66536	2140	66	20	67036	2190	24.32	24.16	-0.16
5A-48A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55990	3625	[66]	20	66536	2140	[66]	20	67036	2190	24.32	24.26	-0.06
5A-[48A]-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55990	3625	[66]	20	66536	2140	66	20	67036	2190	24.32	24.36	0.04
5A-[48A]-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55990	3625	[66]	20	66536	2140	[66]	20	67036	2190	24.32	24.24	-0.08
5A-48A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	5	10	2525	881.5	48	20	55340	3560	24.40	24.48	0.08
5A-[48A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	5	10	2525	881.5	[48]	20	55340	3560	24.40	24.40	0
5A-48A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	5	10	2525	881.5	48	20	55340	3560	24.40	24.35	-0.05
5A-[48A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	5	10	2525	881.5	[48]	20	55340	3560	24.40	24.24	-0.16
5A-[48A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2140	5	10	2525	881.5	[48]	20	55340	3560	24.40	24.33	-0.07
13A-48A-[66B]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	[66]	10	66486	2135	[66]	10	66585	2144.9	24.69	24.64	-0.05
13A-[48A]-66B	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	66	10	66486	2135	66	10	66585	2144.9	24.69	24.79	0.1
13A-[48A]-[66B]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	[66]	10	66486	2135	66	10	66585	2144.9	24.69	24.62	-0.07
13A-48A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	13	10	5230	751	48	20	55990	3625	24.38	24.30	-0.08
13A-[48A]-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	13	10	5230	751	[48]	20	55990	3625	24.38	24.26	-0.12
13A-[48A]-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	13	10	5230	751	[48]	20	55990	3625	24.38	24.20	-0.18
13A-48A-[66C]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	[66]	20	67036	2190	[66]	20	66838	2170.2	24.69	24.67	-0.02
13A-[48A]-66C	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	66	20	67036	2190	66	20	66838	2170.2	24.69	24.55	-0.14
13A-[48A]-[66C]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	[66]	20	67036	2190	[66]	20	66838	2170.2	24.69	24.51	-0.18
13A-48A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	13	10	5230	751	48	20	55990	3625	24.40	24.32	-0.08
13A-[48A]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	13	10	5230	751	[48]	20	55990	3625	24.40	24.44	0.04
13A-[48A]-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	13	10	5230	751	[48]	20	55990	3625	24.40	24.43	0.03
25A-[41D]	25	5	26665	1912.5	8665	1992.5	QPSK	1	12	[41]	20	40422	2573.2	[41]	20	40620	2593	[41]	20	40818	2612.8	24.56	24.56	0
[25A]-41D	[25]	5	26665	1912.5	8665	1992.5	QPSK	1	12	41	20	40422	2573.2	41	20	40620	2593	41	20	40818	2612.8	24.56	24.56	0
[25A]-[41D]	[25]	5	26665	1912.5	8665	1992.5	QPSK	1	12	[41]	20	40422	2573.2	[41]	20	40620	2593	[41]	20	40818	2612.8	24.56	24.37	-0.19
2A-[2A]-46C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	46	20	50692	5540.2	46	20	50890	5560	24.57	24.50	-0.07
[2A]-2A-46C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50692	5540.2	46	20	50890	5560	24.57	24.66	0.09
[2A]-[2A]-46C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	46	20	50692	5540.2	46	20	50890	5560	24.57	24.41	-0.16
2A-46A-46A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	46890	5160	46	20	47088	5179.8	[66]	20	67036	2190	24.57	24.50	-0.07
[2A]-46A-46A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	46890	5160	46	20	47088	5179.8	66	20	67036	2190	24.57	24.67	0.1
[2A]-46A-46A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	46890	5160	46	20	47088	5179.8	[66]	20	67036	2190	24.57	24.44	-0.13
2A-46A-46A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	46	20	46890	5160	46	20	47088	5179.8	2	20	700	1940	24.40	24.31	-0.09
[2A]-46A-46A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	46890	5160	46	20	47088	5179.8	[2]	20	700	1940	24.40	24.44	0.04
[2A]-46A-46A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	46	20	46890	5160	46	20	47088	5179.8	[2]	20	700	1940	24.40	24.43	0.03
2A-46A-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55990	3625	[66]	20	67036	2190	24.57	24.54	-0.03
2A-46A-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55990	3625	66	20	67036	2190	24.57	24.54	-0.03
[2A]-46A-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55990	3625	66	20	67036	2190	24.57	24.63	0.06
2A-46A-[48A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55990	3625	[66]	20	67036	2190	24.57	24.52	-0.05
[2A]-46A-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55990	3625	[66]	20	67036	2190	24.57	24.57	0
[2A]-46A-[48A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55990	3625	66	20	67036	2190	24.57	24.37	-0.2
[2A]-46A-[48A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55990	3625	[66]	20	67036	2190	24.57	24.43	-0.14
2A-46A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	46	20	50690	5540	48	20	55990	3625	24.40	24.30	-0.1
2A-46A-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	46	20	50690	5540	[48]	20	55990	3625	24.40	24.29	-0.11
[2A]-46A-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	46	20	50690	5540	48	20	55990	3625	24.40	24.29	-0.11
2A-46A-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	46	20	50690	5540	[48]	20	55990	3625	24.40	24.26	-0.14
[2A]-46A-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	46	20	50690	5540	48	20	55990	3625	24.40	24.44	0.04
[2A]-46A-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	46	20	50690	5540	[48]	20	55990	3625	24.40	24.45	0.05
[2A]-46A-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	46	20	50690	5540	[48]	20	55990	3625	24.40	24.24	-0.16
[4A]-46A-46C	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.12	24.14	0.02
[4A]-46D	[4]	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.12	24.20	0.08
5A-[7A]-46C	5	5	20425	826.5	2425	871.5	QPSK	1	24	[7]	20	2850	2630	46	20	50692	5540.2	46	20	50890	5560	24.32	24.30	-0.02
5A-[7A]-46C	[7]	15	21100	2535	3100	2655	QPSK	1	0	5	10	2525	881.5	46	20	50692	5540.2	46	20	50890	5560	23.74	23.59	-0.15
2A-[7C]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	13	10	5230	751	24.57	24.54	-0.03
[2A]-7C-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	13	10	5230	751	24.57	24.54	-0.03
[2A]-[7C]-13A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	13	10	5230	751	24.57	24.54	-0.03
2A-[7C]-13A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	13	10	5230	751	2	20	900	1960	23.74	23.68	-0.06
[2A]-7C-13A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	13	10	5230	751	2	20	900	1960	23.74	23.68	-0.06
[2A]-[7C]-13A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	13	10	5230	751	2	20	900	1960	23.74	23.68	-0.06
2A-[7C]-13A	13	5	23230	782	5230	751	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.69	24.65	-0.04
[2A]-7C-13A	13	5	23230	782	5230	751	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.69	24.65	-0.04
[2A]-[7C]-13A	13	5	23230	782	5230	751	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.69	24.65	-0.04
2A-7A-7A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
2A-[7A]-7A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
[2A]-7A-7A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
2A-[7A]-7A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
2A-[7A]-[7A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
[2A]-7A-7A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
[2A]-[7A]-7A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
2A-[7A]-[7A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02

[2A]-[7A]-7A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
[2A]-[7A]-[7A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
[2A]-[7A]-[7A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	20	3100	2655	7	20	3350	2680	66	20	66786	2145	24.57	24.55	-0.02
2A-7A-7A-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
2A-[7A]-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
[2A]-7A-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
2A-[7A]-7A-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
2A-[7A]-[7A]-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
[2A]-7A-7A-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
[2A]-[7A]-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
2A-[7A]-[7A]-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
[2A]-[7A]-7A-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
[2A]-[7A]-[7A]-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3350	2680	66	20	66786	2145	2	20	900	1960	23.74	23.71	-0.03
2A-7A-7A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
2A-[7A]-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
[2A]-7A-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
2A-[7A]-7A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
2A-[7A]-[7A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
[2A]-7A-7A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
[2A]-[7A]-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
2A-[7A]-[7A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
[2A]-[7A]-7A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
[2A]-[7A]-[7A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	20	3100	2655	7	20	3350	2680	2	20	900	1960	24.40	24.28	-0.12
2A-7C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
2A-[7C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
[2A]-7C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
2A-[7C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
[2A]-7C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
[2A]-[7C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
[2A]-[7C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	7	15	3100	2655	7	20	3271	2672.1	66	20	66786	2145	24.57	24.45	-0.12
2A-7C-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
2A-[7C]-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
[2A]-7C-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
2A-[7C]-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
[2A]-7C-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
[2A]-[7C]-66A	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
[2A]-[7C]-[66A]	7	15	21100	2535	3100	2655	QPSK	1	0	7	20	3271	2672.1	66	20	66786	2145	2	20	900	1960	23.74	23.68	-0.06
2A-7C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
2A-[7C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
[2A]-7C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
2A-[7C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
[2A]-7C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
[2A]-[7C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
[2A]-[7C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	7	15	3100	2655	7	20	3271	2672.1	2	20	900	1960	24.40	24.22	-0.18
2A-13A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.3	24.57	24.55	-0.02
[2A]-13A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.3	24.57	24.55	-0.02
[2A]-13A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	15	66786	2145	66	5	66879	2154.3	24.57	24.55	-0.02
2A-13A-[66B]	13	5	23230	782	5230	751	QPSK	1	12	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	24.69	24.68	-0.01
[2A]-13A-66B	13	5	23230	782	5230	751	QPSK	1	12	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	24.69	24.68	-0.01
[2A]-13A-[66B]	13	5	23230	782	5230	751	QPSK	1	12	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	24.69	24.68	-0.01
2A-13A-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	2	20	900	1960	13	10	5230	751	24.40	24.28	-0.12
[2A]-13A-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	2	20	900	1960	13	10	5230	751	24.40	24.28	-0.12
[2A]-13A-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	2	20	900	1960	13	10	5230	751	24.40	24.28	-0.12
2A-46C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	66	20	66536	2120	24.57	24.52	-0.05
[2A]-46C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	66	20	66536	2120	24.57	24.52	-0.05
[2A]-46C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	66	20	66536	2120	24.57	24.52	-0.05
2A-46C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50692	5540.2	46	20	50890	5560	2	20	900	1960	24.40	24.38	-0.02
[2A]-46C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50692	5540.2	46	20	50890	5560	2	20	900	1960	24.40	24.38	-0.02
[2A]-46C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50692	5540.2	46	20	50890	5560	2	20	900	1960	24.40	24.38	-0.02
2A-2A-29A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.39	-0.18
2A-[2A]-29A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.52	-0.05
2A-[2A]-29A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.45	-0.12
[2A]-2A-29A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.48	-0.09
[2A]-2A-29A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.43	-0.14
[2A]-[2A]-29A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.53	-0.04
[2A]-[2A]-29A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	29	10	9715	722.5	66	20	66786	2145	24.57	24.45	-0.12
2A-2A-29A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.42	0.02
2A-[2A]-29A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.40	0
2A-[2A]-29A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.33	-0.07
[2A]-2A-29A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.46	0.06
[2A]-2A-29A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.25	-0.15
[2A]-[2A]-29A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.26	-0.14
[2A]-[2A]-29A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	29	10	9715	722.5	24.40	24.40	0
2A-29A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	29	10	9715	722.5	66	20	66536	2140	66	20	67036	2190	24.57	24.55	-0.02
2A-29A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	29	10	9715	722.5	66	20	66536	2140	66	20	67036	2190	24.57	24.59	0.02
[2A]-29A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	29	10	9715	722.5	66	20	66536	2140	66	20	67036	2190	24.57	24.56	-0.01
[2A]-29A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	29	10	9715	722.5	66	20	66536	2140	66	20	67036	2190	24.57	24.64	0.07
[2A]-29A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	29	10	9715	722.5	66	20	66536	2140	66	20	67036	2190	24.57	24.49	-0.08
2A-29A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	900	1960	29	10	9715	722.5	24.40	24.37	-0.03
2A-29A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	900	1960	29	10	9715	722.5	24.40	24.49	0.09
[2A]-29A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	900	1960	29	10	9715	722.5	24.40	24.46	0.06
[2A]-29A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	900	1960	29	10	9715	722.5	24.40	24.43	0.03
[2A]-29A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	900	1960	29	10	9715	722.5	24.40	24.44	0.04
29A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	29	10	9715	722.5	22.58	22.45	-0.13
29A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	29	10	9715	722.5	22.58	22.49	-0.09
29A-[30A]-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	29	10	9715	722.5	22.58	22.61	0.03
29A-[30A]-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	29	10	9715	722.5	22.58	22.40	-0.18
29A-[30A]-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	29	10	9715	722.5	22.58	22.40	-0.18
29A-30A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	30	10	9820	2355	29	10	9715	722.5	24.40	24.29	-0.11
29A-30A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	30	10	9820	2355	29	10	9715	722.5	24.40	24.32	-0.08
29A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	30	10	9820	2355	29	10	9715	722.5	24.40	24.33	-0.07
29A-[30A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	30	10	9820	2355	29	10	9715	722.5	24.40	24.50	0.1
29A-[30A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	30	10	9820	2355	29	10	9715	722.5	24.40	24.32	-0.08
46C-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	46	20	50692	5540.2	46	20	50890	5560	24.40	24.24	-0.16
46C-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	46	20	50692	5540.2	46	20	50890	5560	24.40	24.27	-0.13
48A-48A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.34	-0.06
48A-48A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.26	-0.14

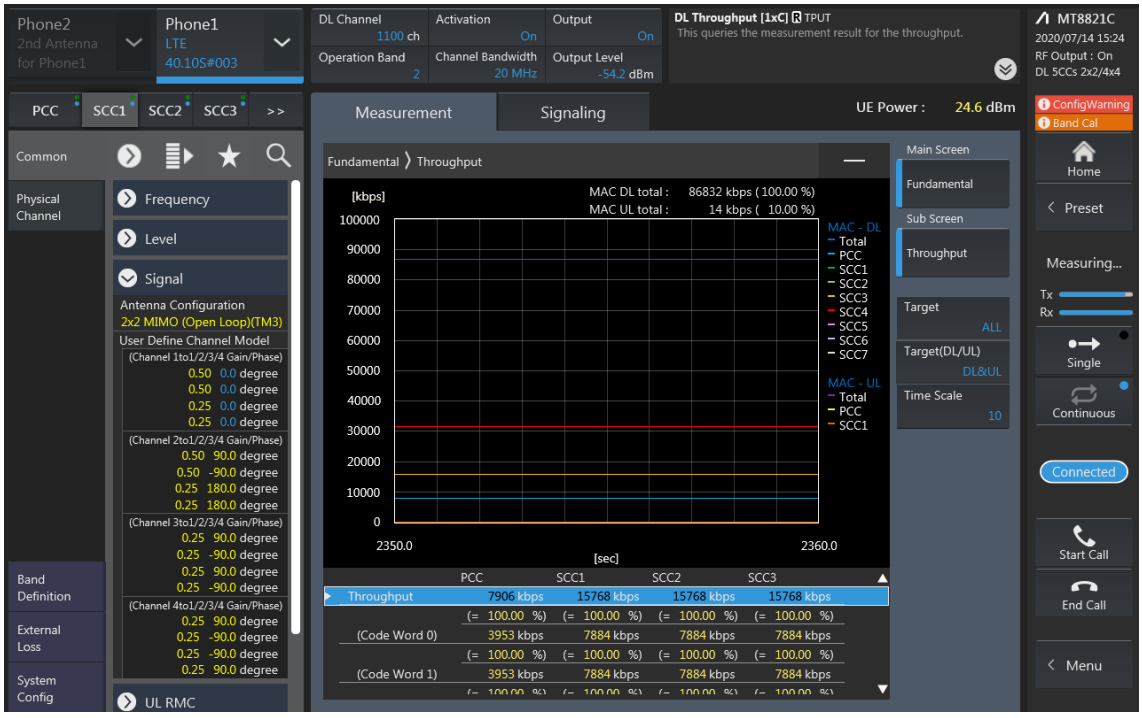
48A-[48A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.40	0
48A-[48A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.21	-0.19
48A-[48A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.39	-0.01
[48A]-48A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.40	0
[48A]-48A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.47	0.07
[48A]-48A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.42	0.02
[48A]-[48A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.47	0.07
[48A]-[48A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.28	-0.12
[48A]-[48A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	48	20	55340	3560	48	20	56640	3690	24.40	24.33	-0.07
48A-48A-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.23	-0.15
48A-[48A]-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.37	-0.01
48A-[48A]-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.22	-0.16
[48A]-48A-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.39	0.01
[48A]-48A-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.24	-0.14
[48A]-[48A]-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.18	-0.2
[48A]-[48A]-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3690	24.38	24.20	-0.18
48A-48A-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.27	-0.13
48A-[48A]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.42	0.02
48A-[48A]-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.40	0
[48A]-48A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.36	-0.04
[48A]-48A-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.27	-0.13
[48A]-[48A]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.27	-0.13
[48A]-[48A]-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3690	24.40	24.36	-0.04

LTE Down Link 5CA 4x4 MIMO Call Setup

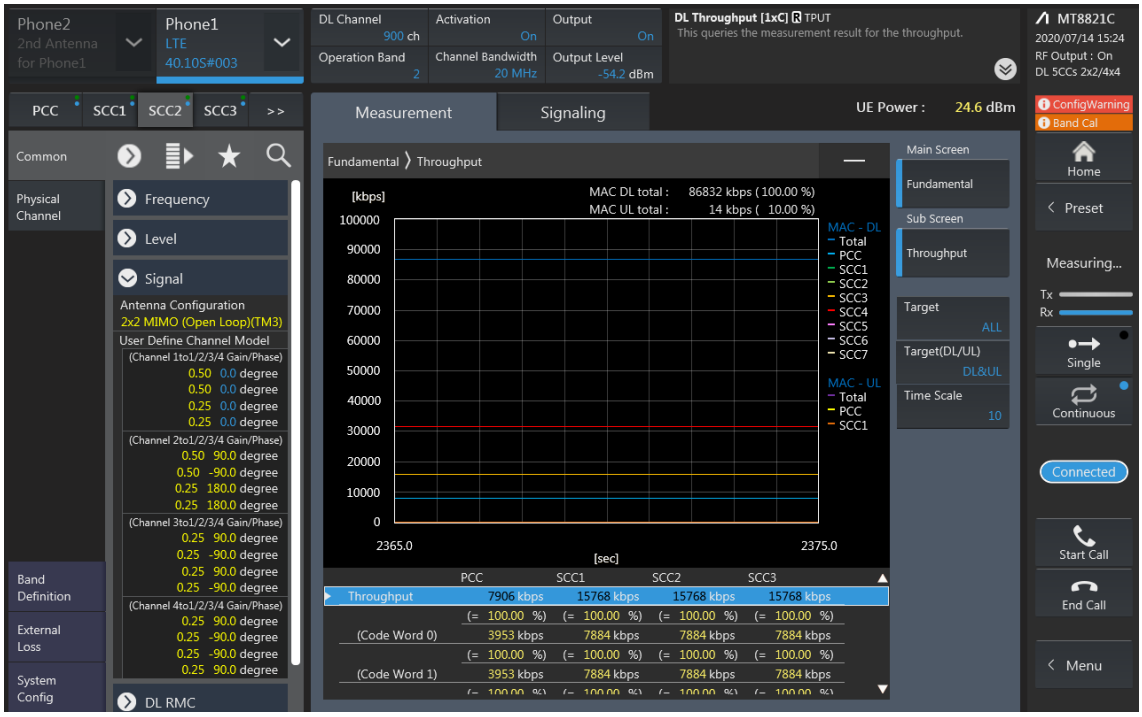
PCC Setting (Channel/ RB/ BW/ Modulation)



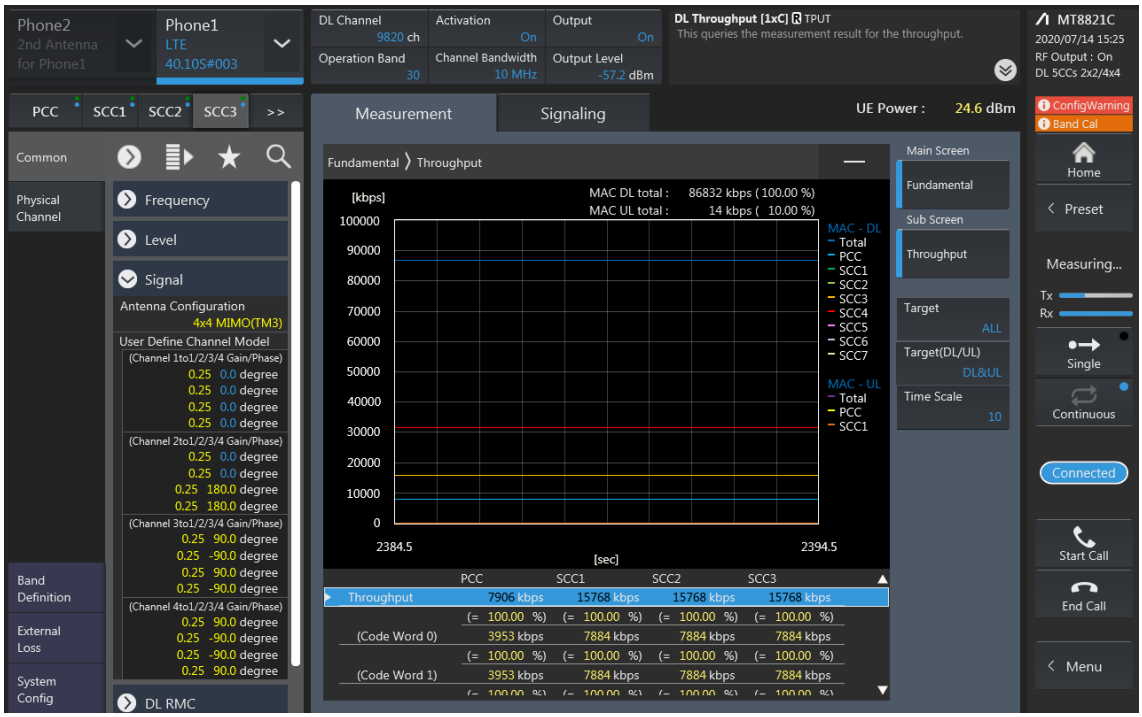
SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



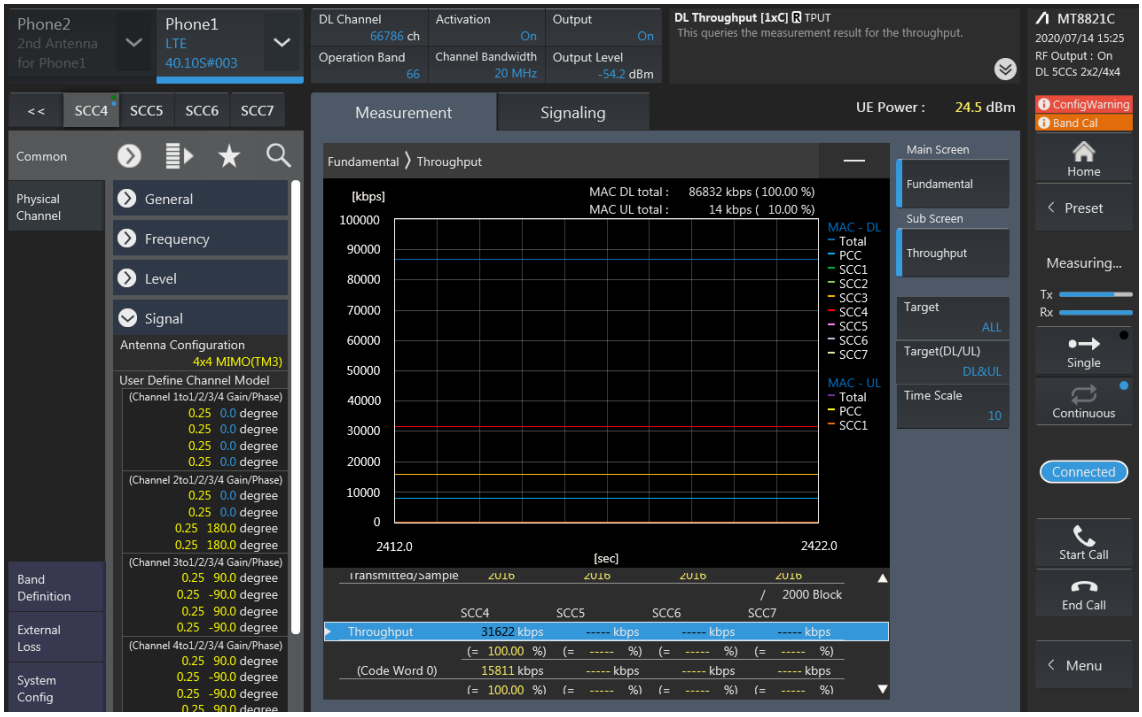
SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC3 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC4 Setting (Channel/ RB/ BW/ Modulation) and call Connection



LTE Downlink 5CA 4X4 MIMO Maximum Conducted Power

Combination	PCC									SCC				SCC				SCC				SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviaion(dB) (2)-(1)
2A-2A-5A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.45	-0.12
2A-2A-5A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.40	-0.17
2A-[2A]-5A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	24.57	24.39	-0.18
[2A]-2A-5A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	24.57	24.38	-0.19
2A-2A-5A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.37	-0.2
2A-[2A]-5A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.59	0.02
2A-[2A]-5A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.61	0.04
[2A]-2A-5A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.66	0.09
[2A]-2A-5A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.51	-0.06
[2A]-[2A]-5A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	24.57	24.48	-0.09
2A-[2A]-5A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.50	-0.07
[2A]-2A-5A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.40	-0.17
[2A]-[2A]-5A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.38	-0.19
[2A]-[2A]-5A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.54	-0.03
[2A]-[2A]-5A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.54	-0.03
2A-2A-5A-30A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.32	24.32	0
2A-2A-5A-[30A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.32	24.14	-0.18
2A-[2A]-5A-30A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.32	24.35	0.03
[2A]-2A-5A-30A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.32	24.35	0.03
2A-2A-5A-[30A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.32	24.36	0.04
2A-[2A]-5A-30A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.32	24.32	0
2A-[2A]-5A-[30A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.32	24.34	0.02
[2A]-2A-5A-30A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.32	24.16	-0.16
[2A]-2A-5A-[30A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.32	24.31	-0.01
[2A]-[2A]-5A-30A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.12	-0.2
2A-[2A]-5A-[30A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.32	24.31	-0.01
[2A]-2A-5A-[30A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.32	24.21	-0.11
[2A]-[2A]-5A-30A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.16	-0.16
[2A]-[2A]-5A-[30A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.42	0.1
[2A]-[2A]-5A-[30A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.25	-0.07
2A-2A-5A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.43	-0.2
2A-2A-5A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.66	0.03
2A-[2A]-5A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	22.63	22.50	-0.13
[2A]-2A-5A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.62	-0.01
2A-2A-5A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.48	-0.15
2A-[2A]-5A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	22.63	22.64	0.01
2A-[2A]-5A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	22.63	22.72	0.09
[2A]-2A-5A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.72	0.09
[2A]-2A-5A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.65	0.02
[2A]-[2A]-5A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	22.63	22.66	0.03
2A-[2A]-5A-30A-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.57	-0.06
[2A]-2A-5A-30A-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.50	-0.13
[2A]-[2A]-5A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	22.63	22.70	0.07
[2A]-[2A]-5A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	22.63	22.57	-0.06
[2A]-[2A]-5A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	22.63	22.43	-0.2
2A-2A-5A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.50	0.1
2A-2A-5A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.50	0.1
2A-[2A]-5A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.39	-0.01
[2A]-2A-5A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.29	-0.11
2A-2A-5A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.22	-0.18
2A-[2A]-5A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.43	0.03
2A-[2A]-5A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.26	-0.14
[2A]-2A-5A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.35	-0.05
[2A]-2A-5A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.45	0.05
[2A]-[2A]-5A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.27	-0.13
2A-[2A]-5A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.20	-0.2
[2A]-2A-5A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.44	0.04
[2A]-[2A]-5A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	30	10	9820	2355	24.40	24.35	-0.05
[2A]-[2A]-5A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.38	-0.02
[2A]-[2A]-5A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	[30]	10	9820	2355	24.40	24.27	-0.13
2A-2A-5A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	66	20	67236	2190	24.57	24.58	0.01
2A-[2A]-5A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	67236	2190	24.57	24.55	-0.02
[2A]-2A-5A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	67236	2190	24.57	24.44	-0.13
2A-2A-5A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.58	0.01
2A-[2A]-5A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	66	20	67236	2190	24.57	24.65	0.08
[2A]-2A-5A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	66	20	67236	2190	24.57	24.59	0.02
[2A]-[2A]-5A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	67236	2190	24.57	24.54	-0.03
2A-[2A]-5A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.60	0.03
[2A]-2A-5A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.39	-0.18
[2A]-[2A]-5A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	66	20	67236	2190	24.57	24.55	-0.02
[2A]-[2A]-5A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.65	0.08
2A-2A-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	66	20	67036	2190	2	20	700	1940	2	20	1100	1980	24.32	24.13	-0.19
2A-[2A]-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	2	20	700	1940	[2]	20	1100	1980	24.32	24.41	0.09
[2A]-2A-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	[2]	20	700	1940	2	20	1100	1980	24.32	24.15	-0.17
2A-2A-5A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	[66]	20	67036	2190	2	20	700	1940	2	20	1100	1980	24.32	24.28	-0.04
2A-[2A]-5A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	66	20	67036	2190	2	20	700	1940	[2]	20	1100	1980	24.32	24.42	0.1
[2A]-2A-5A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	66	20	67036	2190	[2]	20	700	1940	2	20	1100	1980	24.32	24.41	0.09
[2A]-[2A]-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66536	2140	66	20	67036	2190	[2]	20	700	1940	[2]	20	1100	1980	24.32	24.34	0.02
2A-[2A]-5A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	[66]	20	67036	2190	2	20	700	1940	[2]	20	1100	1980	24.32	24.19	-0.13
[2A]-2A-5A-66A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	[66]	20	67036	2190	[2]	20	700	1940	2	20	1100	1980	24.32	24.20	-0.12
[2A]-[2A]-5A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	66	20	67036	2190	[2]	20	700	1940	[2]	20	1100	1980	24.32	24.33	0.01
[2A]-[2A]-5A-66A-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66536	2140	[66]	20	67036	2190	[2]	20	700	1940	[2]	20	1100	1980	24.32	24.25	-0.07
2A-2A-5A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2140	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.40	24.32	-0.08
2A-[2A]-5A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.27	-0.13
[2A]-2A-5A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.40	24.40	0
2A-2A-5A-66A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.40	24.37	-0.03
2A-[2A]-5A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.24	-0.16
[2A]-2A-5A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.40	24.20	-0.2
[2A]-[2A]-5A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.48	0.08
2A-[2A]-5A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.37	-0.03
[2A]-2A-5A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.40	24.30	-0.1
[2A]-[2A]-5A-66A-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.27	-0.13
[2A]-[2A]-5A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.32	-0.08
2A-2A-5A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	1058	1975.8	5	5	2425	881.5	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.40	-0.17
2A-[2A]-5A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	5	5	2425	881.5	66	10	66486	2135	66	10	66585	2144.9	24.57	24.45	-0.12
[2A]-2A-5A-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	1058	1975.8	5	5	2425	881.5	66	10	66486	2135	66	10	66585	2144.9	24.57	24.54	-0.03
2A-[2A]-5A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	5	5	2425	881.5	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.48	-0.09
[2A]-2A-5A-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	1058	1975.8	5	5	2425	881.5	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.37	-0.2

[2A]-[2A]-5A-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	5	5	2425	881.5	66	10	66486	2135	66	10	66585	2144.9	24.57	24.58	0.01
[2A]-[2A]-5A-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	1058	1975.8	5	5	2425	881.5	[66]	10	66486	2135	[66]	10	66585	2144.9	24.57	24.52	-0.05
2A-2A-5A-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	15	66786	2145	[66]	5	66879	2154.3	2	20	900	1960	2	20	1100	1980	24.32	24.24	-0.08
2A-[2A]-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	[2]	20	1100	1980	24.32	24.28	-0.04
[2A]-2A-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	15	66786	2145	66	5	66879	2154.3	[2]	20	900	1960	2	20	1100	1980	24.32	24.31	-0.01
2A-[2A]-5A-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	15	66786	2145	[66]	5	66879	2154.3	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.28	-0.04
[2A]-[2A]-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	15	66786	2145	[66]	5	66879	2154.3	[2]	20	900	1960	2	20	1100	1980	24.32	24.30	-0.02
[2A]-[2A]-5A-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	15	66786	2145	66	5	66879	2154.3	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.13	-0.19
[2A]-[2A]-5A-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	15	66786	2145	[66]	5	66879	2154.3	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.29	-0.03
2A-2A-5A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	2	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.38	24.44	0.06
2A-[2A]-5A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	2	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.38	24.44	0.06
[2A]-2A-5A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.38	24.18	-0.2
2A-[2A]-5A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	2	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.38	24.29	-0.09
[2A]-2A-5A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	[2]	20	700	1940	2	20	1100	1980	5	10	2525	881.5	24.38	24.26	-0.12
[2A]-[2A]-5A-66B	66	10	132622	1775	67086	2195	QPSK	1	0	66	10	66987	2185.1	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.38	24.36	-0.02
[2A]-[2A]-5A-[66B]	[66]	10	132622	1775	67086	2195	QPSK	1	0	[66]	10	66987	2185.1	[2]	20	700	1940	[2]	20	1100	1980	5	10	2525	881.5	24.38	24.43	0.05
2A-2A-5A-[66C]	2	10	132622	1775	67086	2195	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	66984	2164.8	24.57	24.45	-0.12
2A-[2A]-5A-66C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	66984	2164.8	24.57	24.63	0.06
[2A]-2A-5A-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	66984	2164.8	24.57	24.56	-0.01
2A-[2A]-5A-[66C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	66984	2164.8	24.57	24.53	-0.04
[2A]-2A-5A-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	66984	2164.8	24.57	24.45	-0.12
[2A]-[2A]-5A-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	66	20	66786	2145	66	20	66984	2164.8	24.57	24.55	-0.02
[2A]-[2A]-5A-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	5	10	2525	881.5	[66]	20	66786	2145	[66]	20	66984	2164.8	24.57	24.37	-0.2
2A-2A-5A-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66786	2145	[66]	20	66984	2164.8	2	20	900	1960	2	20	1100	1980	24.32	24.22	-0.1
2A-[2A]-5A-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66786	2145	66	20	66984	2164.8	2	20	900	1960	[2]	20	1100	1980	24.32	24.39	0.07
[2A]-2A-5A-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66786	2145	66	20	66984	2164.8	[2]	20	900	1960	2	20	1100	1980	24.32	24.42	0.1
2A-[2A]-5A-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66786	2145	[66]	20	66984	2164.8	2	20	900	1960	[2]	20	1100	1980	24.32	24.20	-0.12
[2A]-2A-5A-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66786	2145	[66]	20	66984	2164.8	[2]	20	900	1960	2	20	1100	1980	24.32	24.18	-0.14
[2A]-[2A]-5A-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	66	20	66786	2145	66	20	66984	2164.8	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.31	-0.01
[2A]-[2A]-5A-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[66]	20	66786	2145	[66]	20	66984	2164.8	[2]	20	900	1960	[2]	20	1100	1980	24.32	24.30	-0.02
2A-2A-5A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	900	1960	2	20	1100	1980	5	10	2525	881.5	24.40	24.40	0
2A-[2A]-5A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.36	-0.04
[2A]-2A-5A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	24.40	24.27	-0.13
2A-[2A]-5A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	2	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.37	-0.03
[2A]-2A-5A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	900	1960	2	20	1100	1980	5	10	2525	881.5	24.40	24.48	0.08
[2A]-[2A]-5A-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.39	-0.01
[2A]-[2A]-5A-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	[2]	20	900	1960	[2]	20	1100	1980	5	10	2525	881.5	24.40	24.23	-0.17
2A-2A-12B-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2165	24.57	24.42	-0.15
2A-[2A]-12B-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	5	5048	732.8	12	10	5120	740	66	20	66786	2145	24.57	24.38	-0.19
[2A]-2A-12B-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	5	5048	732.8	12	10	5120	740	66	20	66786	2145	24.57	24.66	0.09
2A-[2A]-12B-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	24.57	24.55	-0.02
[2A]-2A-12B-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	24.57	24.61	0.04
[2A]-[2A]-12B-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	5	5048	732.8	12	10	5120	740	66	20	66786	2145	24.57	24.59	0.02
[2A]-[2A]-12B-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	24.57	24.45	-0.12
2A-2A-12B-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2165	2	20	900	1960	2	20	1100	1980	24.79	24.73	-0.06
2A-[2A]-12B-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	66	20	66786	2165	2	20	900	1960	[2]	20	1100	1980	24.79	24.74	-0.05
[2A]-2A-12B-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	66	20	66786	2165	[2]	20	900	1960	2	20	1100	1980	24.79	24.84	0.05
2A-[2A]-12B-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2165	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.82	0.03
[2A]-2A-12B-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2165	[2]	20	900	1960	2	20	1100	1980	24.79	24.65	-0.14
[2A]-[2A]-12B-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	66	20	66786	2165	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.66	-0.13
[2A]-[2A]-12B-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2165	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.78	-0.01
2A-2A-12B-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	2	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.29	-0.11
2A-[2A]-12B-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.41	0.01
[2A]-2A-12B-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.37	-0.03
2A-[2A]-12B-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[2]	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.27	-0.13
[2A]-2A-12B-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	2	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.41	0.01
[2A]-[2A]-12B-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.41	0.01
[2A]-[2A]-12B-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	[2]	20	1100	1980	12	5	5048	732.8	12	10	5120	740	24.40	24.34	-0.06
2A-2A-12A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.66	0.09
2A-2A-12A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.65	0.08
2A-[2A]-12A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	24.57	24.46	-0.11
[2A]-2A-12A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	24.57	24.45	-0.12
2A-2A-12A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.60	0.03
2A-[2A]-12A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.43	-0.14
2A-[2A]-12A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.59	0.02
[2A]-2A-12A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.46	-0.11
[2A]-2A-12A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.39	-0.18
[2A]-[2A]-12A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	24.57	24.64	0.07
2A-[2A]-12A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.37	-0.2
[2A]-2A-12A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.52	-0.05
[2A]-[2A]-12A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	30	10	9820	2355	[66]	20	66786	2145	24.57	24.37	-0.2
[2A]-[2A]-12A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	66	20	66786	2145	24.57	24.42	-0.15
[2A]-[2A]-12A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.47	-0.1
2A-2A-12A-30A-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.79	24.70	-0.09
2A-2A-12A-[30A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.79	24.71	-0.08
2A-[2A]-12A-30A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.79	24.74	-0.05
[2A]-2A-12A-30A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.79	24.77	-0.02
2A-2A-12A-[30A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.79	24.78	-0.01
2A-[2A]-12A-30A-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.79	24.64	-0.15
2A-[2A]-12A-[30A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.79	24.64	-0.15
[2A]-2A-12A-30A-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.79	24.72	-0.07
[2A]-2A-12A-[30A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.79	24.86	0.07
[2A]-[2A]-12A-30A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.84	0.05
2A-[2A]-12A-[30A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.79	24.73	-0.06
[2A]-2A-12A-[30A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.79	24.69	-0.1
[2A]-[2A]-12A-30A-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.86	0.07
[2A]-[2A]-12A-[30A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.62	-0.17
[2A]-[2A]-12A-[30A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[30]	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.77	-0.02
2A-2A-12A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.62	-0.01
2A-2A-12A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.72	0.09
2A-[2A]-12A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.68	0.05
[2A]-2A-12A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.52	-0.11
2A-2A-12A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.61	-0.02
2A-[2A]-12A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.61	-0.02
2A-[2A]-12A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.60	-0.03
[2A]-2A-12A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.45	-0.18
[2A]-2A-12A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.65	0.02
[2A]-[2A]-12A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.67	0.04
2A-[2A]-12A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.63	0
[2A]-2A-12A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	22.63	22.71	0.08

[2A]-[2A]-12A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.56	-0.07
[2A]-[2A]-12A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.44	-0.19
[2A]-[2A]-12A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	22.63	22.50	-0.13
2A-2A-12A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.38	-0.02
2A-2A-12A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.46	0.06
2A-[2A]-12A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.43	0.03
[2A]-2A-12A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.29	-0.11
2A-2A-12A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.28	-0.12
2A-[2A]-12A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.40	0
2A-[2A]-12A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.50	0.1
[2A]-2A-12A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.38	-0.02
[2A]-2A-12A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.47	0.07
[2A]-[2A]-12A-30A-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.48	0.08
2A-[2A]-12A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.39	-0.01
[2A]-2A-12A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.38	-0.02
[2A]-[2A]-12A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	30	10	9820	2355	24.40	24.44	0.04
[2A]-[2A]-12A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.37	-0.03
[2A]-[2A]-12A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	[30]	10	9820	2355	24.40	24.30	-0.1
2A-2A-12A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	66	20	67236	2190	24.57	24.48	-0.09
2A-[2A]-12A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	66	20	66786	2145	66	20	67236	2190	24.57	24.41	-0.16
[2A]-2A-12A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	66	20	66786	2145	66	20	67236	2190	24.57	24.40	-0.17
2A-2A-12A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.59	0.02
2A-[2A]-12A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.65	0.08
[2A]-2A-12A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	66	20	66786	2145	66	20	67236	2190	24.57	24.66	0.09
[2A]-[2A]-12A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	66	20	66786	2145	66	20	67236	2190	24.57	24.58	0.01
2A-[2A]-12A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.38	-0.19
[2A]-2A-12A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.41	-0.16
[2A]-[2A]-12A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	66	20	67236	2190	24.57	24.44	-0.13
[2A]-[2A]-12A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	12	10	5095	737.5	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.43	-0.14
2A-2A-12A-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.79	24.75	-0.04
2A-[2A]-12A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	[2]	20	1100	1980	24.79	24.67	-0.12
[2A]-2A-12A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	2	20	1100	1980	24.79	24.85	0.06
2A-2A-12A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	66	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.79	24.84	0.05
2A-[2A]-12A-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	[2]	20	1100	1980	24.79	24.78	-0.01
[2A]-2A-12A-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	2	20	1100	1980	24.79	24.74	-0.05
[2A]-[2A]-12A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.73	-0.06
2A-[2A]-12A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	[2]	20	1100	1980	24.79	24.82	0.03
[2A]-2A-12A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	2	20	1100	1980	24.79	24.81	0.02
[2A]-[2A]-12A-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.64	-0.15
[2A]-[2A]-12A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	[2]	20	1100	1980	24.79	24.69	-0.1
2A-2A-12A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.40	24.47	0.07
2A-[2A]-12A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	24.40	24.26	-0.14
[2A]-2A-12A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.40	24.46	0.06
2A-2A-12A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.40	24.26	-0.14
2A-[2A]-12A-66A-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.40	24.34	-0.06
[2A]-2A-12A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.40	24.50	0.1
[2A]-[2A]-12A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	24.40	24.50	0.1
2A-[2A]-12A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	24.40	24.29	-0.11
[2A]-2A-12A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	900	1960	2	20	1100	1980	12	10	5095	737.5	24.40	24.36	-0.04
[2A]-[2A]-12A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	24.40	24.48	0.08
[2A]-[2A]-12A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	900	1960	[2]	20	1100	1980	12	10	5095	737.5	24.40	24.42	0.02
2A-2A-14A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	66786	2145	24.57	24.47	-0.1
2A-2A-14A-[30A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[30]	10	9820	2355	66	20	66786	2145	24.57	24.49	-0.08
2A-[2A]-14A-30A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	24.57	24.39	-0.18
[2A]-2A-14A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	24.57	24.58	0.01
2A-2A-14A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.40	-0.17
2A-[2A]-14A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	66786	2145	24.57	24.54	-0.03
[2A]-[2A]-14A-30A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	66	20	66786	2145	24.57	24.40	-0.17
[2A]-2A-14A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	66786	2145	24.57	24.40	-0.17
[2A]-2A-14A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[30]	10	9820	2355	66	20	66786	2145	24.57	24.39	-0.18
[2A]-[2A]-14A-30A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	24.57	24.52	-0.05
2A-[2A]-14A-[30A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.54	-0.03
[2A]-2A-14A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.44	-0.13
[2A]-[2A]-14A-30A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	30	10	9820	2355	[66]	20	66786	2145	24.57	24.65	0.08
[2A]-[2A]-14A-[30A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	66	20	66786	2145	24.57	24.63	0.06
[2A]-[2A]-14A-[30A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[30]	10	9820	2355	[66]	20	66786	2145	24.57	24.47	-0.1
2A-2A-14A-30A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.78	24.58	-0.2
2A-2A-14A-[30A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.78	24.85	0.07
2A-[2A]-14A-30A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.78	24.86	0.08
[2A]-2A-14A-30A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.78	24.88	0.1
2A-2A-14A-[30A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	24.78	24.72	-0.06
2A-[2A]-14A-30A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.78	24.59	-0.19
2A-[2A]-14A-[30A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.78	24.58	-0.2
[2A]-2A-14A-30A-[66A]	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.78	24.67	-0.11
[2A]-2A-14A-[30A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.78	24.88	0.1
[2A]-[2A]-14A-30A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.62	-0.16
2A-[2A]-14A-[30A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	24.78	24.66	-0.12
[2A]-2A-14A-[30A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	24.78	24.62	-0.16
[2A]-[2A]-14A-30A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.82	0.04
[2A]-[2A]-14A-[30A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.83	0.05
[2A]-[2A]-14A-[30A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.64	-0.14
2A-2A-14A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.56	-0.07
2A-2A-14A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.69	0.06
2A-[2A]-14A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.73	0.1
[2A]-2A-14A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.58	-0.05
2A-2A-14A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.64	0.01
2A-[2A]-14A-30A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.67	0.04
2A-[2A]-14A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.48	-0.15
[2A]-2A-14A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.69	0.06
[2A]-2A-14A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.50	-0.13
[2A]-[2A]-14A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.52	-0.11
2A-[2A]-14A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.72	0.09
[2A]-2A-14A-30A-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	22.63	22.73	0.1
[2A]-[2A]-14A-30A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.54	-0.09
[2A]-[2A]-14A-[30A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.62	-0.01
[2A]-[2A]-14A-[30A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	22.63	22.71	0.08
2A-2A-14A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.21	-0.19
2A-2A-14A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.47	0.07
2A-[2A]-14A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.28	-0.12
[2A]-2A-14A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.38	-0.02

2A-2A-14A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.44	0.04
2A-[2A]-14A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.30	-0.1
2A-[2A]-14A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.39	-0.01
[2A]-2A-14A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.34	-0.06
[2A]-2A-14A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.31	-0.09
[2A]-[2A]-14A-30A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.25	-0.15
2A-[2A]-14A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.50	0.1
[2A]-2A-14A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	2	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.48	0.08
[2A]-[2A]-14A-30A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	30	10	9820	2355	24.40	24.39	-0.01
[2A]-[2A]-14A-[30A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.45	0.05
[2A]-[2A]-14A-[30A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	[30]	10	9820	2355	24.40	24.20	-0.2
2A-2A-14A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[66]	20	66786	2145	66	20	67236	2190	24.57	24.50	-0.07
2A-[2A]-14A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	66	20	66786	2145	66	20	67236	2190	24.57	24.46	-0.11
[2A]-2A-14A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	66	20	66786	2145	66	20	67236	2190	24.57	24.61	0.04
2A-2A-14A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.64	0.07
2A-[2A]-14A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[66]	20	66786	2145	66	20	67236	2190	24.57	24.49	-0.08
[2A]-2A-14A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[66]	20	66786	2145	66	20	67236	2190	24.57	24.63	0.06
[2A]-[2A]-14A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	66	20	66786	2145	66	20	67236	2190	24.57	24.46	-0.11
2A-[2A]-14A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.54	-0.03
[2A]-2A-14A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	14	10	5330	763	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.38	-0.19
[2A]-[2A]-14A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[66]	20	66786	2145	66	20	67236	2190	24.57	24.65	0.08
[2A]-[2A]-14A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	[2]	20	700	1940	14	10	5330	763	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.43	-0.14
2A-2A-14A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.78	24.64	-0.14
2A-[2A]-14A-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	[2]	20	1100	1980	24.78	24.75	-0.03
[2A]-2A-14A-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	2	20	1100	1980	24.78	24.62	-0.16
2A-2A-14A-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.78	24.71	-0.07
2A-[2A]-14A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	[2]	20	1100	1980	24.78	24.76	-0.02
[2A]-2A-14A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	2	20	1100	1980	24.78	24.86	0.08
[2A]-[2A]-14A-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.74	-0.04
2A-[2A]-14A-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	[2]	20	1100	1980	24.78	24.86	0.08
[2A]-2A-14A-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	2	20	1100	1980	24.78	24.64	-0.14
[2A]-[2A]-14A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.64	-0.14
[2A]-[2A]-14A-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	[2]	20	1100	1980	24.78	24.86	0.08
2A-2A-14A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.40	24.39	-0.01
2A-[2A]-14A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	24.40	24.27	-0.13
[2A]-2A-14A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	24.40	24.38	-0.02
2A-2A-14A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	900	1960	2	20	1100	1980	14	10	5330	763	24.40	24.25	-0.15
2A-[2A]-14A-66A-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	24.40	24.44	0.04
[2A]-2A-14A-66A-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	24.40	24.44	0.04
[2A]-[2A]-14A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	24.40	24.26	-0.14
2A-[2A]-14A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	900	1960	[2]	20	1100	1980	14	10	5330	763	24.40	24.25	-0.15
[2A]-2A-14A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	900	1960	2	20	1100	1980	14	10	5330	763	24.40	24.31	-0.09
[2A]-[2A]-14A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	24.40	24.35	-0.05
[2A]-[2A]-14A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	900	1960	[2]	20	1100	1980	14	10	5330	763	24.40	24.46	0.06
2A-5B-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	[66]	20	66786	2145	66	20	67236	2190	24.57	24.66	0.09
[2A]-5B-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2425	871.5	5	10	2524	881.4	66	20	66786	2145	66	20	67236	2190	24.57	24.65	0.08
2A-5B-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2425	871.5	5	10	2524	881.4	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.53	-0.04
[2A]-5B-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2425	871.5	5	10	2524	881.4	[66]	20	66786	2145	66	20	67236	2190	24.57	24.44	-0.13
[2A]-5B-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2425	871.5	5	10	2524	881.4	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.58	0.01
2A-5B-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.37	0.05
[2A]-5B-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.32	24.24	-0.08
2A-5B-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	24.32	24.36	0.04
[2A]-5B-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.32	24.38	0.06
[2A]-5B-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	24.32	24.39	0.07
2A-5B-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.40	24.25	-0.15
[2A]-5B-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.40	24.20	-0.2
2A-5B-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.40	24.23	-0.17
[2A]-5B-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.40	24.29	-0.11
[2A]-5B-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.40	24.25	-0.15
2A-5B-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.40	-0.17
[2A]-5B-66B	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	5	10	2497	878.7	66	15	66786	2145	66	5	66879	2154.3	24.57	24.62	0.05
[2A]-5B-[66B]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	5	10	2497	878.7	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.43	-0.14
2A-5B-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	15	66786	2145	[66]	5	66879	2154.3	2	20	900	1960	24.32	24.32	0
[2A]-5B-66B	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	66	15	66786	2145	66	5	66879	2154.3	[2]	20	900	1960	24.32	24.20	-0.12
[2A]-5B-[66B]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	15	66786	2145	[66]	5	66879	2154.3	[2]	20	900	1960	24.32	24.14	-0.18
2A-5B-[66B]	[66]	10	132622	1775	67086	2175	QPSK	1	0	[66]	10	66987	2165.1	2	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.38	24.44	0.06
[2A]-5B-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	[2]	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.38	24.24	-0.14
[2A]-5B-[66B]	[66]	10	132622	1775	67086	2175	QPSK	1	0	[66]	10	66987	2165.1	[2]	20	900	1960	5	5	2425	871.5	5	10	2497	878.7	24.38	24.25	-0.13
2A-5B-[66C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	[66]	20	66786	2145	[66]	20	66984	2164.8	24.57	24.56	-0.01
[2A]-5B-66C	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	24.57	24.42	-0.15
[2A]-5B-[66C]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	5	2425	871.5	5	10	2497	878.7	[66]	20	66786	2145	[66]	20	66984	2164.8	24.57	24.39	-0.18
2A-5B-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	20	66786	2145	[66]	20	66984	2164.8	2	20	700	1940	24.32	24.20	-0.12
[2A]-5B-66C	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	66	20	66786	2145	66	20	66984	2164.8	[2]	20	700	1940	24.32	24.41	0.09
[2A]-5B-[66C]	5	5	20425	826.5	2425	871.5	QPSK	1	24	5	10	2497	878.7	[66]	20	66786	2145	[66]	20	66984	2164.8	[2]	20	700	1940	24.32	24.25	-0.07
2A-5B-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	5	5	2425	871.5	5	10	2497	878.7	2	20	900	1960	24.40	24.23	-0.17
[2A]-5B-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	5	5	2425	871.5	5	10	2497	878.7	[2]	20	900	1960	24.40	24.41	0.01
[2A]-5B-[66C]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66838	2170.2	5	5	2425	871.5	5	10	2497	878.7	[2]	20	900	1960	24.40	24.45	0.05
2A-5A-30A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.47	-0.1
2A-5A-[30A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.55	-0.02
[2A]-5A-30A-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.41	-0.16
2A-5A-30A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.53	-0.04
2A-5A-[30A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.58	0.01
[2A]-5A-30A-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	24.57	24.53	-0.04
[2A]-5A-[30A]-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[30]	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.66	0.09
2A-5A-[30A]-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.50	-0.07
[2A]-5A-30A-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	30	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.56	-0.01
[2A]-5A-[30A]-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	24.57	24.56	-0.01
[2A]-5A-[30A]-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[30]	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.42	-0.15
2A-5A-30A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.13	-0.19
2A-5A-[30A]-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.33	0.01
[2A]-5A-30A-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.32	24.22	-0.1
2A-5A-30A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	24.32	24.40	0.08
2A-5A-[30A]-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.18	-0.14
[2A]-5A-30A-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.32	24.21	-0.11
[2A]-5A-[30A]-66A-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.32	24.29	-0.03
2A-5A-[30A]-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.32	24.31	-0.01
[2A]-5A-30A-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	30	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	24.32	24.14	-0.18
[2A]-5A-[30A]-[66A]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.32	24.14	-0.18
[2A]-5A-[30A]-[66A]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[30]	10	9820	2355	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	24.32	24.41	0.09
2A-5A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	2	20	900	1960	22.63	22.73	0.1

2A-5A-[30A]-66A-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	2	20	900	1960	22.63	22.55	-0.08
[2A]-5A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	[2]	20	900	1960	22.63	22.71	0.08
2A-5A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	5	10	2525	881.5	2	20	900	1960	22.63	22.52	-0.11
2A-5A-[30A]-[66A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	2	20	900	1960	22.63	22.51	-0.12
[2A]-5A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	[2]	20	900	1960	22.63	22.64	0.01
[2A]-5A-[30A]-66A-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	[2]	20	900	1960	22.63	22.56	-0.07
2A-5A-[30A]-[66A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	5	10	2525	881.5	2	20	900	1960	22.63	22.43	-0.2
[2A]-5A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	5	10	2525	881.5	[2]	20	900	1960	22.63	22.48	-0.15
[2A]-5A-[30A]-[66A]-66A	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	66	20	67236	2190	5	10	2525	881.5	[2]	20	900	1960	22.63	22.47	-0.16
[2A]-5A-[30A]-[66A]-[66A]	[30]	10	27710	2310	9820	2355	QPSK	1	24	[66]	20	66786	2145	[66]	20	67236	2190	5	10	2525	881.5	[2]	20	900	1960	22.63	22.72	0.09
2A-5A-30A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	2	20	900	1960	30	10	9820	2355	24.40	24.32	-0.08
2A-5A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	2	20	900	1960	[30]	10	9820	2355	24.40	24.49	0.09
[2A]-5A-30A-66A-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	[2]	20	900	1960	30	10	9820	2355	24.40	24.33	-0.07
2A-5A-30A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	5	10	2525	881.5	2	20	900	1960	30	10	9820	2355	24.40	24.45	0.05
2A-5A-[30A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	2	20	900	1960	[30]	10	9820	2355	24.40	24.26	-0.14
[2A]-5A-30A-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	[2]	20	900	1960	30	10	9820	2355	24.40	24.36	-0.04
[2A]-5A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	[2]	20	900	1960	[30]	10	9820	2355	24.40	24.22	-0.18
2A-5A-[30A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	5	10	2525	881.5	2	20	900	1960	[30]	10	9820	2355	24.40	24.46	0.06
[2A]-5A-30A-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	5	10	2525	881.5	[2]	20	900	1960	30	10	9820	2355	24.40	24.31	-0.09
[2A]-5A-[30A]-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	5	10	2525	881.5	[2]	20	900	1960	[30]	10	9820	2355	24.40	24.38	-0.02
[2A]-5A-[30A]-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	5	10	2525	881.5	[2]	20	900	1960	[30]	10	9820	2355	24.40	24.24	-0.16
2A-5A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[48]	20	55340	3560	[48]	20	55538	3579.8	[48]	20	55736	3599.6	24.57	24.62	0.05
[2A]-5A-48D	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	24.57	24.47	-0.1
[2A]-5A-[48D]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[48]	20	55340	3560	[48]	20	55538	3579.8	[48]	20	55736	3599.6	24.57	24.65	0.08
2A-5A-[48D]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55340	3560	[48]	20	55538	3579.8	[48]	20	55736	3599.6	2	20	900	1960	24.32	24.25	-0.07
[2A]-5A-48D	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	[2]	20	900	1960	24.32	24.15	-0.17
[2A]-5A-[48D]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55340	3560	[48]	20	55538	3579.8	[48]	20	55736	3599.6	[2]	20	900	1960	24.32	24.25	-0.07
2A-5A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	[66]	20	66786	2145	24.57	24.59	0.02
2A-5A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	66	20	66786	2145	24.57	24.38	-0.19
[2A]-5A-48C-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.65	0.08
2A-5A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	24.57	24.46	-0.11
[2A]-5A-48C-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	48	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	24.57	24.49	-0.08
[2A]-5A-[48C]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	66	20	66786	2145	24.57	24.54	-0.03
[2A]-5A-[48C]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	24.57	24.49	-0.08
2A-5A-48C-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	[66]	20	66786	2145	2	20	900	1960	24.32	24.25	-0.07
2A-5A-[48C]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55773	3603.3	[48]	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.32	24.14	-0.18
[2A]-5A-48C-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	[2]	20	900	1960	24.32	24.34	0.02
2A-5A-[48C]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	2	20	900	1960	24.32	24.20	-0.12
[2A]-5A-48C-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	[66]	20	66786	2145	[2]	20	900	1960	24.32	24.35	0.03
[2A]-5A-[48C]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55773	3603.3	[48]	20	55971	3623.1	66	20	66786	2145	[2]	20	900	1960	24.32	24.17	-0.15
[2A]-5A-[48C]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	[2]	20	900	1960	24.32	24.26	-0.06
2A-5A-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.42	0.02
2A-5A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.47	0.07
[2A]-5A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.44	0.04
2A-5A-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.42	0.02
[2A]-5A-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.29	-0.11
[2A]-5A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.34	-0.06
[2A]-5A-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	5	10	2525	881.5	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.46	0.06
2A-12B-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	66	20	67236	2190	24.57	24.55	-0.02
[2A]-12B-66A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5048	732.8	12	10	5120	740	66	20	66786	2145	66	20	67236	2190	24.57	24.50	-0.07
2A-12B-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.50	-0.07
[2A]-12B-[66A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	66	20	67236	2190	24.57	24.46	-0.11
[2A]-12B-[66A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	5	5048	732.8	12	10	5120	740	[66]	20	66786	2145	[66]	20	67236	2190	24.57	24.57	0
2A-12B-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.67	-0.12
[2A]-12B-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	66	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.79	24.65	-0.14
2A-12B-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2145	[66]	20	67236	2190	2	20	900	1960	24.79	24.89	0.1
[2A]-12B-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2145	66	20	67236	2190	[2]	20	900	1960	24.79	24.65	-0.14
[2A]-12B-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	12	10	5167	744.7	[66]	20	66786	2145	[66]	20	67236	2190	[2]	20	900	1960	24.79	24.79	0
2A-12B-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	5	5048	732.8	12	10	5120	740	24.40	24.26	-0.14
[2A]-12B-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	12	5	5048	732.8	12	10	5120	740	24.40	24.25	-0.15
2A-12B-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	2	20	900	1960	12	5	5048	732.8	12	10	5120	740	24.40	24.49	0.09
[2A]-12B-[66A]-66A	[66]	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	[2]	20	900	1960	12	5	5048	732.8	12	10	5120	740	24.40	24.27	-0.13
[2A]-12B-[66A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[66]	20	66536	2120	[2]	20	900	1960	12	5	5048	732.8	12	10	5120	740	24.40	24.31	-0.09
2A-13A-48A-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	24.57	24.46	-0.11
2A-13A-[48A]-48A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.57	24.58	0.01
[2A]-13A-48A-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.57	24.39	-0.18
2A-13A-[48A]-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	24.57	24.51	-0.06
2A-13A-[48A]-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	[48]	20	56640	3690	66	20	66786	2145	24.57	24.67	0.1
[2A]-13A-48A-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	24.57	24.66	0.09
[2A]-13A-[48A]-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	48	20	56640	3690	66	20	66786	2145	24.57	24.66	0.09
2A-13A-[48A]-[48A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	[48]	20	56640	3690	[66]	20	66786	2145	24.57	24.64	0.07
[2A]-13A-[48A]-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	24.57	24.62	0.05
[2A]-13A-[48A]-[48A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	[48]	20	56640	3690	66	20	66786	2145	24.57	24.63	0.06
[2A]-13A-[48A]-[48A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	[48]	20	55340	3560	[48]	20	56640	3690	[66]	20	66786	2145	24.57	24.41	-0.16
2A-13A-48A-48A-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	2	20	900	1960	24.69	24.55	-0.14
2A-13A-[48A]-48A-66A	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	48	20	56640	3690	66	20	66786	2145	2	20	900	1960	24.69	24.50	-0.19
[2A]-13A-48A-48A-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	66	20	66786	2145	[2]	20	900	1960	24.69	24.64	-0.05
2A-13A-[48A]-48A-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	2	20	900	1960	24.69	24.56	-0.13
2A-13A-[48A]-[48A]-66A	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	[48]	20	56640	3690	66	20	66786	2145	2	20	900	1960	24.69	24.71	0.02
[2A]-13A-48A-48A-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	[2]	20	900	1960	24.69	24.64	-0.05
[2A]-13A-[48A]-48A-66A	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	[48]	20	56640	3690	66	20	66786	2145	[2]	20	900	1960	24.69	24.49	-0.2
2A-13A-[48A]-[48A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	[48]	20	56640	3690	[66]	20	66786	2145	2	20	900	1960	24.69	24.73	0.04
[2A]-13A-[48A]-48A-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	48	20	56640	3690	[66]	20	66786	2145	[2]	20	900	1960	24.69	24.58	-0.11
[2A]-13A-[48A]-[48A]-66A	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	[48]	20	56640	3690	66	20	66786	2145	[2]	20	900	1960	24.69	24.49	-0.2
[2A]-13A-[48A]-[48A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55340	3560	[48]	20	56640	3690	[66]	20	66786	2145	[2]	20	900	1960	24.69	24.75	0.06
13A-[48C]-[48C]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[48]	20	55340	3560	[48]	20	55538	3579.8	24.69	24.69	0
13A-48A-48C-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	[66]	20	66786	2145	24.69	24.64	-0.05
13A-48A-[48C]-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	66	20	66786	2145	24.69	24.59	-0.1
13A-[48A]-48C-66A	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.74	0.05
13A-48A-[48C]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	[66]	20	66786	2145	24.69	24.73	0.04
13A-[48A]-48C-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	[66]	20	66786	2145	24.69	24.54	-0.15
13A-[48A]-[48C]-66A	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	66	20	66786	2145	24.69	24.50	-0.19
13A-[48A]-[48C]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	[48]	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	[66]	20	66786	2145	24.69	24.79	0.1
13A-48A-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.33	-0.07
13A-48A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	24.40	24.30	-0.1
13A-[48A]-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	[48]	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.36	-0.04
13A-48A-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	24.40	24.40	0
13A-[48A]-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	[48]	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.49	0.09
13A-[48A]-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	[48]	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	24.40	24.28	-0.12
13A-[48A]-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	[48]	20	55773	3603.3	[48]	20	56640	3690	[48]	20	56442	3670.2	24.40	24.23	-0.17

2A-46A-46C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	[66]	20	66786	2145	24.57	24.61	0.04
[2A]-46A-46C-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	66	20	66786	2145	24.57	24.47	-0.1
[2A]-46A-46C-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	[66]	20	66786	2145	24.57	24.44	-0.13
2A-46A-46C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.40	24.25	-0.15
[2A]-46A-46C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.40	24.37	-0.03
[2A]-46A-46C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.40	24.50	0.1
2A-46C-48A-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	[66]	20	66786	2145	24.57	24.43	-0.14
2A-46C-[48A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	66	20	66786	2145	24.57	24.56	-0.01
[2A]-46C-48A-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	66	20	66786	2145	24.57	24.42	-0.15
2A-46C-[48A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	[66]	20	66786	2145	24.57	24.37	-0.2
[2A]-46C-48A-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	[66]	20	66786	2145	24.57	24.50	-0.07
[2A]-46C-[48A]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	66	20	66786	2145	24.57	24.64	0.07
[2A]-46C-[48A]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	[66]	20	66786	2145	24.57	24.62	0.05
2A-46C-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	24.40	24.34	-0.06
2A-46C-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	24.40	24.41	0.01
[2A]-46C-48A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	24.40	24.35	-0.05
2A-46C-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	24.40	24.20	-0.2
[2A]-46C-48A-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	48	20	55340	3560	24.40	24.23	-0.17
[2A]-46C-[48A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	24.40	24.37	-0.03
[2A]-46C-[48A]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50692	5540.2	46	20	50890	5560	[48]	20	55340	3560	24.40	24.40	0
2A-46A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	[66]	20	66786	2145	24.57	24.52	-0.05
2A-46A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	66	20	66786	2145	24.57	24.47	-0.1
[2A]-46A-48C-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.60	0.03
2A-46A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	24.57	24.47	-0.1
[2A]-46A-48C-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	[66]	20	66786	2145	24.57	24.53	-0.04
[2A]-46A-[48C]-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	66	20	66786	2145	24.57	24.63	0.06
[2A]-46A-[48C]-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[66]	20	66786	2145	24.57	24.65	0.08
2A-46A-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.47	0.07
2A-46A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.43	0.03
[2A]-46A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.24	-0.16
2A-46A-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.34	-0.06
[2A]-46A-48C-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	24.40	24.29	-0.11
[2A]-46A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	900	1960	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.22	-0.18
[2A]-46A-[48C]-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	[48]	20	55773	3603.3	[48]	20	55971	3623.1	24.40	24.44	0.04
2A-2A-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.64	-0.18
2A-2A-13A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.37	-0.2
2A-[2A]-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.57	0
[2A]-2A-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.38	-0.19
2A-2A-13A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.37	-0.2
2A-[2A]-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.60	0.03
[2A]-2A-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.39	-0.18
[2A]-[2A]-13A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.58	0.01
2A-[2A]-13A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.55	-0.02
[2A]-2A-13A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.40	-0.17
[2A]-[2A]-13A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.64	0.07
[2A]-[2A]-13A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	13	10	5230	751	66	20	66786	2145	66	20	67236	2190	24.57	24.40	-0.17
2A-2A-13A-[66A]-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.74	0.05
2A-[2A]-13A-66A-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.73	0.04
[2A]-2A-13A-66A-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.64	-0.05
2A-2A-13A-[66A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.60	-0.09
2A-[2A]-13A-[66A]-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.65	-0.04
[2A]-2A-13A-[66A]-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.59	-0.1
[2A]-[2A]-13A-66A-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.60	-0.09
2A-[2A]-13A-[66A]-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.79	0.1
[2A]-2A-13A-[66A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.53	-0.16
[2A]-[2A]-13A-[66A]-66A	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.60	-0.09
[2A]-[2A]-13A-[66A]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	2	20	1100	1980	24.69	24.71	0.02
2A-2A-13A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.28	-0.12
2A-[2A]-13A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.25	-0.15
[2A]-2A-13A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.33	-0.07
2A-2A-13A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.49	0.09
2A-[2A]-13A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.27	-0.13
[2A]-2A-13A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.33	-0.07
[2A]-[2A]-13A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.26	-0.14
2A-[2A]-13A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.44	0.04
[2A]-2A-13A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.29	-0.11
[2A]-[2A]-13A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.47	0.07
[2A]-[2A]-13A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	2	20	1100	1980	13	10	5230	751	24.40	24.38	-0.02
2A-12A-30A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.56	-0.01
2A-12A-[30A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.44	-0.13
[2A]-12A-30A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.52	-0.05
2A-12A-30A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.40	-0.17
2A-12A-[30A]-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.62	0.05
[2A]-12A-30A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.67	0.1
[2A]-12A-[30A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.45	-0.12
2A-12A-30A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.65	0.08
[2A]-12A-[30A]-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.42	-0.15
[2A]-12A-[30A]-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	12	10	5095	737.5	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.41	-0.16
2A-12A-30A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.75	-0.04
2A-12A-30A-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.60	-0.19
2A-12A-[30A]-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.62	-0.17
[2A]-12A-30A-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.61	-0.18
2A-12A-30A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.61	-0.18
2A-12A-[30A]-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.81	0.02
[2A]-12A-30A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.77	-0.02
[2A]-12A-[30A]-66A-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.79	0
2A-12A-[30A]-66A-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.64	-0.15
[2A]-12A-30A-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.89	0.1
[2A]-12A-[30A]-[66A]-66A	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.88	0.09
[2A]-12A-[30A]-[66A]-[66A]	12	5	23095	707.5	5095	737.5	QPSK	1	12	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.79	24.68	-0.11
2A-12A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.54	-0.09
2A-12A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.44	-0.19
2A-12A-[30A]-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.55	-0.08
[2A]-12A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.64	0.01
2A-12A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.68	0.05
2A-12A-[30A]-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.69	0.06
[2A]-12A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.48	-0.15
[2A]-12A-[30A]-66A-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.70	0.07
2A-12A-[30A]-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.57	-0.06

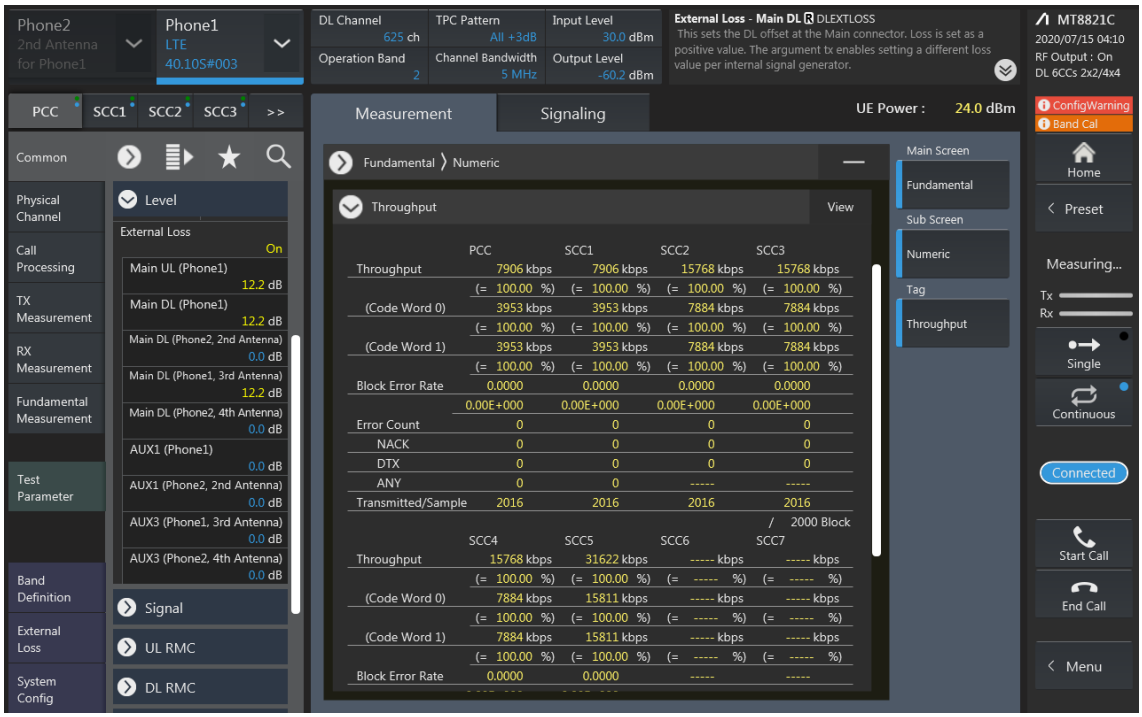
[2A]-12A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.70	0.07
[2A]-12A-[30A]-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.49	-0.14
[2A]-12A-[30A]-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	12	10	5095	744.7	22.63	22.63	0
2A-12A-30A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.40	0
2A-12A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.35	-0.05
[2A]-12A-30A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.42	0.02
2A-12A-30A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.26	-0.14
2A-12A-[30A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.30	-0.1
[2A]-12A-30A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.37	-0.03
[2A]-12A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.35	-0.05
2A-12A-[30A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.20	-0.2
[2A]-12A-30A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.27	-0.13
[2A]-12A-[30A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.44	0.04
[2A]-12A-[30A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	12	10	5095	744.7	30	10	9820	2355	24.40	24.40	0
2A-13A-48A-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.67	0.1
2A-13A-[48A]-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.63	0.06
[2A]-13A-48A-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.40	-0.17
2A-13A-[48A]-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.58	0.01
[2A]-13A-48A-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.61	0.04
[2A]-13A-[48A]-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.64	0.07
[2A]-13A-[48A]-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.57	24.59	0.02
2A-13A-48A-[48C]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.75	0.06
2A-13A-[48A]-48C	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.62	-0.07
[2A]-13A-48A-48C	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.52	-0.17
2A-13A-[48A]-[48C]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.68	-0.01
[2A]-13A-48A-[48C]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.56	-0.13
[2A]-13A-[48A]-48C	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.68	-0.01
[2A]-13A-[48A]-[48C]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	2	20	900	1960	24.69	24.67	-0.02
2A-13A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.55	-0.02
[2A]-13A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.66	0.09
[2A]-13A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.59	0.02
2A-13A-48D	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	2	20	900	1960	24.69	24.56	-0.13
2A-13A-[48D]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	2	20	900	1960	24.69	24.57	-0.12
[2A]-13A-48D	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	2	20	900	1960	24.69	24.65	-0.04
[2A]-13A-[48D]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	2	20	900	1960	24.69	24.53	-0.16
2A-13A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.49	-0.08
2A-13A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.62	0.05
2A-13A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.41	-0.16
[2A]-13A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.54	-0.03
2A-13A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.65	0.08
[2A]-13A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.50	-0.07
[2A]-13A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.50	-0.07
[2A]-13A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	24.57	24.54	-0.03
2A-13A-48C-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.68	-0.01
2A-13A-[48C]-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.65	-0.04
[2A]-13A-48C-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.49	-0.2
2A-13A-[48C]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.57	-0.12
[2A]-13A-48C-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.74	0.05
[2A]-13A-[48C]-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.59	-0.1
[2A]-13A-[48C]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	66	20	66786	2145	2	20	900	1960	24.69	24.76	0.07
2A-13A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.32	-0.08
2A-13A-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.47	0.07
2A-13A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.45	0.05
2A-13A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.33	-0.07
2A-13A-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.49	0.09
[2A]-13A-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.45	0.05
[2A]-13A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.30	-0.1
[2A]-13A-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	13	10	5230	751	48	20	55340	3560	48	20	56640	3690	24.40	24.45	0.05
2A-13A-66A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.41	-0.16
2A-13A-[66A]-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.65	0.08
[2A]-13A-66A-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.66	0.09
2A-13A-[66A]-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.65	0.08
[2A]-13A-66A-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.55	-0.02
[2A]-13A-[66A]-66B	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.51	-0.06
[2A]-13A-[66A]-[66B]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	13	10	5230	751	66	20	67036	2145	[66]	15	66786	2145	[66]	5	66879	2154.3	24.57	24.60	0.03
2A-13A-66A-[66B]	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.49	0.09
2A-13A-[66A]-66B	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.41	0.01
[2A]-13A-66A-66B	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.45	0.05
2A-13A-[66A]-[66B]	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.42	0.02
[2A]-13A-[66A]-66B	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.42	0.02
[2A]-13A-[66A]-[66B]	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.36	-0.04
[2A]-13A-66A-[66B]	66	20	132572	1770	67036	2190	QPSK	1	99	66	15	66786	2145	66	5	66879	2154.3	2	20	900	1960	13	10	5230	751	24.40	24.24	-0.16
2A-14A-30A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.48	-0.09
2A-14A-[30A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.60	0.03
[2A]-14A-30A-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.38	-0.19
2A-14A-30A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.67	0.1
2A-14A-[30A]-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.59	0.02
[2A]-14A-30A-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.48	-0.09
[2A]-14A-[30A]-66A-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.54	-0.03
2A-14A-[30A]-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.49	-0.08
[2A]-14A-30A-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.65	0.08
[2A]-14A-[30A]-[66A]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.67	0.1
[2A]-14A-[30A]-[66A]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	14	10	5330	763	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	24.57	24.41	-0.16
2A-14A-30A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.73	-0.05
2A-14A-[30A]-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.70	-0.08
[2A]-14A-30A-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.64	-0.14
2A-14A-30A-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.78	0
2A-14A-[30A]-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.67	-0.11
[2A]-14A-30A-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.65	-0.13
[2A]-14A-[30A]-66A-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.59	-0.19
2A-14A-[30A]-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.63	-0.15
[2A]-14A-30A-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.88	0.1
[2A]-14A-[30A]-[66A]-66A	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.66	-0.12
[2A]-14A-[30A]-[66A]-[66A]	14	10	23330	793	5330	763	QPSK	1	24	30	10	9820	2355	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	24.78	24.69	-0.09
2A-14A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.65	0.02
2A-14A-[30A]-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.61	-0.02
[2A]-14A-30A-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.54	-0.09
2A-14A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.73	0.1
2A-14A-[30A]-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.45	-0.18
[2A]-14A-30A-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.72	0.09

[2A]-14A-[30A]-66A-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.57	-0.06
2A-14A-[30A]-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.53	-0.1
[2A]-14A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.55	-0.08
[2A]-14A-[30A]-[66A]-66A	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.55	-0.08
[2A]-14A-30A-[66A]-[66A]	30	10	27710	2310	9820	2355	QPSK	1	24	66	20	66786	2145	66	20	67236	2190	2	20	900	1960	14	10	5330	763	22.63	22.68	0.05
2A-14A-30A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.46	0.06
2A-14A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.47	0.07
[2A]-14A-30A-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.35	-0.05
2A-14A-30A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.26	-0.14
2A-14A-[30A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.44	0.04
[2A]-14A-30A-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.47	0.07
[2A]-14A-[30A]-66A-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.34	-0.06
2A-14A-[30A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.35	-0.05
[2A]-14A-30A-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.42	0.02
[2A]-14A-[30A]-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.35	-0.05
[2A]-14A-[30A]-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	2	20	900	1960	14	10	5330	763	30	10	9820	2355	24.40	24.43	0.03
2A-48A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.45	-0.12
2A-[48A]-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.42	-0.15
[2A]-48A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.55	-0.02
2A-[48A]-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.49	-0.08
[2A]-48A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.53	-0.04
[2A]-[48A]-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.59	0.02
[2A]-[48A]-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.57	24.60	0.03
2A-[48C]-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.57	24.59	0.02
[2A]-48C-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.57	24.67	0.1
2A-[48C]-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.57	24.42	-0.13
[2A]-[48C]-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.57	24.63	0.06
[2A]-[48C]-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.57	24.47	-0.1
2A-48A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.49	-0.08
2A-48A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.41	-0.16
2A-[48A]-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.62	0.05
[2A]-48A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.64	0.07
2A-48A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.51	-0.06
2A-[48A]-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.51	-0.06
2A-[48A]-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.53	-0.04
[2A]-48A-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.52	-0.05
[2A]-48A-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.43	-0.14
[2A]-48A-48C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.62	0.05
2A-[48A]-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.54	-0.03
[2A]-48A-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.62	0.05
[2A]-[48A]-48C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.44	-0.13
[2A]-[48A]-[48C]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.44	-0.13
[2A]-[48A]-[48C]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.57	24.48	-0.09
2A-48A-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.25	-0.15
2A-48A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.25	-0.15
2A-[48A]-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.27	-0.13
[2A]-48A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.23	-0.17
2A-48A-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.32	-0.08
2A-[48A]-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.27	-0.13
2A-[48A]-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.47	0.07
[2A]-48A-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.27	-0.13
[2A]-48A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.44	0.04
[2A]-48A-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.35	-0.05
2A-[48A]-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.33	-0.07
[2A]-48A-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.41	0.01
[2A]-[48A]-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.40	0
[2A]-[48A]-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.47	0.07
[2A]-[48A]-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.45	0.05
2A-48D-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.59	0.02
2A-[48D]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.47	-0.1
[2A]-48D-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.50	-0.07
2A-[48D]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.63	0.06
[2A]-48D-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.40	-0.17
[2A]-[48D]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.40	-0.17
[2A]-[48D]-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.57	24.66	0.09
2A-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.50	0.1
2A-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.38	-0.02
[2A]-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.23	-0.17
2A-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.26	-0.14
[2A]-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.30	-0.1
[2A]-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.38	-0.02
[2A]-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.21	-0.19
4A-[48E]	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	20	55934	3619.4	24.12	23.97	-0.15
[4A]-48E	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	20	55934	3619.4	24.12	24.03	-0.09
[4A]-[48E]	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	48	20	55340	3560	48	20	55538	3579.8	48	20	55736	3599.6	48	20	55934	3619.4	24.12	24.00	-0.12
5A-48D-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66536	2145	24.32	24.29	-0.03
5A-48D-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66536	2145	24.32	24.42	0.1
5A-[48D]-66A	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66536	2145	24.32	24.42	0.1
5A-[48D]-[66A]	5	5	20425	826.5	2425	871.5	QPSK	1	24	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66536	2145	24.32	24.22	-0.1
5A-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.49	0.09
5A-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.35	-0.05
5A-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	5	10	2525	881.5	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.20	-0.2
13A-48E	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.69	24.62	-0.07
13A-[48E]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.69	24.51	-0.18
13A-48A-48C-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.67	-0.02
13A-48A-[48C]-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.56	-0.13
13A-[48A]-48C-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.73	0.04
13A-48A-[48C]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.57	-0.12
13A-[48A]-48C-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.51	-0.18
13A-[48A]-[48C]-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.49	-0.2
13A-[48A]-[48C]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	66	20	66786	2145	24.69	24.50	-0.19
13A-48A-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.26	-0.14
13A-48A-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.43	0.03
13A-[48A]-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.33	-0.07
13A-48A-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.23	-0.17
13A-[48A]-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.21	-0.19
13A-[48A]-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.27	-0.13
13A-[48A]-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	56640	3690	48	20	56442	3670.2	24.40	24.21	-0.19
13A-48D-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.69	24.63	-0.06
13A-[48D]-66A	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.69	24.60	-0.09

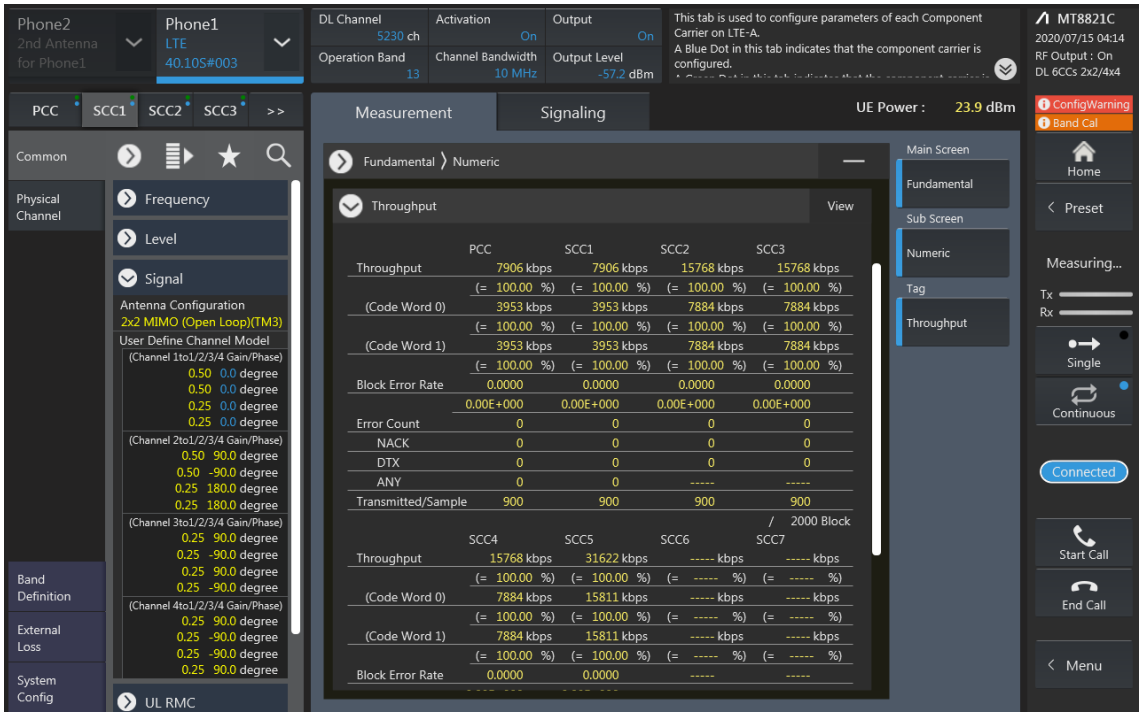
13A-[48D]-[66A]	13	5	23230	782	5230	751	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	66	20	66786	2145	24.69	24.71	0.02
13A-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.25	-0.15
13A-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.22	-0.18
13A-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	13	10	5230	751	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.34	-0.06
48A-[48E]	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	48	20	56046	3630.6	22.11	21.96	-0.15
[48A]-48E	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	48	20	56046	3630.6	22.11	21.95	-0.16
[48A]-[48E]	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	48	20	56046	3630.6	22.11	21.91	-0.2
48C-[48D]	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	55575	3583.5	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	22.11	21.96	-0.15
[48C]-48D	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	55575	3583.5	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	22.11	22.15	0.04
[48C]-[48D]	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	55575	#REF!	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	22.11	22.12	0.01
[48F]	48	20	55773	3603.3	55773	3603.3	QPSK	1	99	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	48	20	56565	3682.5	22.11	22.19	0.08
2A-[2A]-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.57	24.38	-0.19
[2A]-2A-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.57	24.59	0.02
[2A]-[2A]-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	2	20	700	1940	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.57	24.44	-0.13
2A-46A-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.57	24.37	-0.2
[2A]-46A-46D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.57	24.56	-0.01
[2A]-46E	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50490	5520	46	20	50688	5539.8	46	20	50889	5559.9	46	20	51090	5580	24.57	24.56	-0.01
2A-46D-48A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	48	20	55773	3603.3	24.57	24.48	-0.09
2A-46D-[48A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	48	20	55773	3603.3	24.57	24.56	-0.01
[2A]-46D-48A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	48	20	55773	3603.3	24.57	24.47	-0.1
[2A]-46D-[48A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	48	20	55773	3603.3	24.57	24.66	0.09
2A-46A-46C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	66	20	66786	2145	24.57	24.37	-0.2
[2A]-46A-46C-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	66	20	66786	2145	24.57	24.37	-0.2
[2A]-46A-46C-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	66	20	66786	2145	24.57	24.66	0.09
2A-46A-46C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.40	24.26	-0.14
[2A]-46A-46C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.40	24.43	0.03
[2A]-46A-46C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50690	5540	46	20	54142	5885.2	46	20	54340	5905	24.40	24.31	-0.09
2A-46D-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	66	20	66786	2145	24.57	24.64	0.07
[2A]-46D-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	66	20	66786	2145	24.57	24.42	-0.15
[2A]-46D-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	66	20	66786	2145	24.57	24.62	0.05
2A-46D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.40	24.50	0.1
[2A]-46D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.40	24.42	0.02
[2A]-46D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	900	1960	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.40	24.29	-0.11
2A-46C-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.67	0.1
[2A]-46C-48C	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.43	-0.14
[2A]-46C-[48C]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50692	5540.2	46	20	50890	5560	48	20	55773	3603.3	48	20	55971	3623.1	24.57	24.57	0
2A-46A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.49	-0.08
[2A]-46A-48D	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.61	0.04
[2A]-46A-[48D]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.57	24.44	-0.13
[4A]-46A-46D	4	15	20325	1747.5	2325	2147.5	QPSK	1	74	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.12	23.93	-0.19
46A-46D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50690	5540	46	20	46892	5160.2	46	20	47090	5180	46	20	47288	5199.8	24.40	24.37	-0.03
46A-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.26	-0.14
46A-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.28	-0.12
46A-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50690	5540	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	24.40	24.25	-0.15
46C-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	46	20	50692	5540.2	46	20	50890	5560	24.40	24.30	-0.1
46C-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	46	20	50692	5540.2	46	20	50890	5560	24.40	24.46	0.06
46C-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	46	20	50692	5540.2	46	20	50890	5560	24.40	24.25	-0.15
46D-[66A]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.40	24.31	-0.09
46D-[66A]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66536	2120	46	20	50492	5520.2	46	20	50690	5540	46	20	50888	5559.8	24.40	24.48	0.08
46E-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	46	20	50490	5520	46	20	50688	5539.8	46	20	50889	5559.9	46	20	51090	5580	24.40	24.27	-0.13
48A-48C-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.30	-0.08
48A-[48C]-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.18	-0.2
48A-[48C]-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.39	0.01
[48A]-48C-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.33	-0.05
[48A]-48C-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.34	-0.04
[48A]-[48C]-66B	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.21	-0.17
[48A]-[48C]-[66B]	66	10	132622	1775	67086	2175	QPSK	1	0	66	10	66987	2165.1	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.38	24.46	0.08
48A-48C-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.50	0.1
48A-[48C]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.39	-0.01
48A-[48C]-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.30	-0.1
[48A]-48C-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.39	-0.01
[48A]-48C-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.38	-0.02
[48A]-[48C]-66C	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.45	0.05
[48A]-[48C]-[66C]	66	20	132572	1770	67036	2190	QPSK	1	99	66	20	66838	2170.2	48	20	55340	3560	48	20	56640	3590	48	20	56442	3570.2	24.40	24.33	-0.07
48A-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.24	-0.16
48A-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.25	-0.15
48A-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.49	0.09
[48A]-48D-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.35	-0.05
[48A]-48D-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.35	-0.05
[48A]-[48D]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.28	-0.12
[48A]-[48D]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55340	3560	48	20	56640	3690	48	20	56442	3670.2	48	20	56244	3650.4	24.40	24.40	0
48C-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.21	-0.19
48C-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.35	-0.05
48C-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.28	-0.12
[48C]-48C-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.47	0.07
[48C]-48C-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.48	0.08
[48C]-[48C]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.50	0.1
[48C]-[48C]-[66A]	66	20	132572	1770	67036	2190	QPSK	1	99	48	20	55773	3603.3	48	20	55971	3623.1	48	20	55340	3560	48	20	55538	3579.8	24.40	24.50	0.1

LTE Down Link 6CA 4x4 MIMO Call Setup

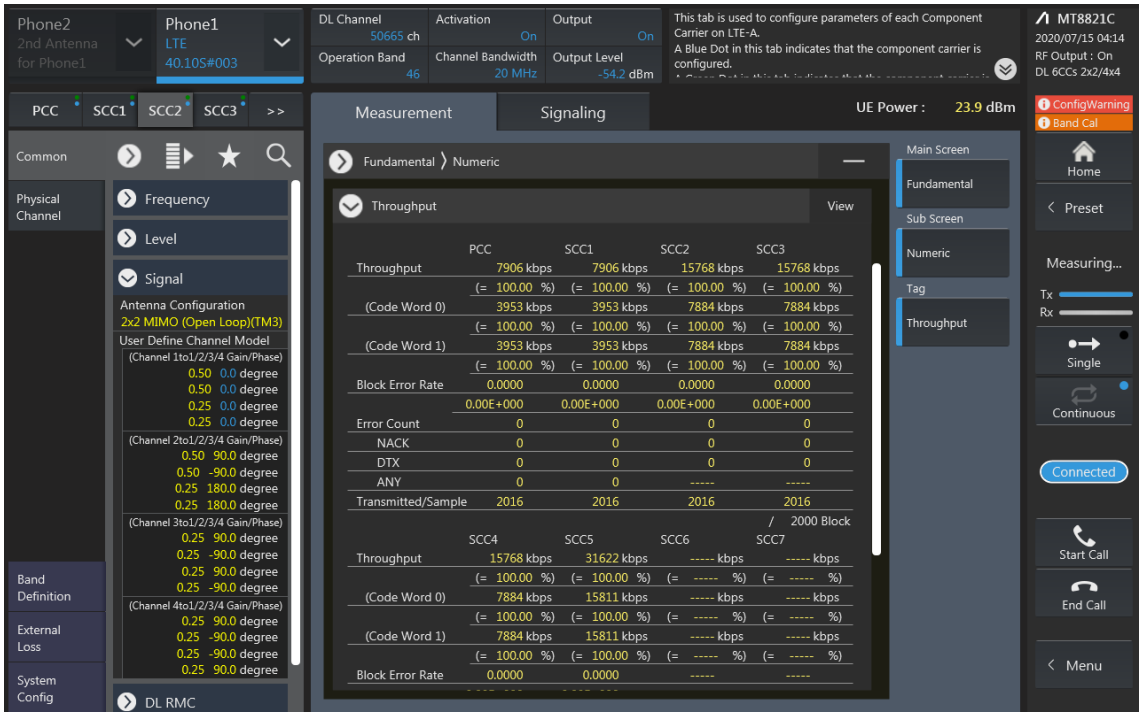
PCC Setting (Channel/ RB/ BW/ Modulation)



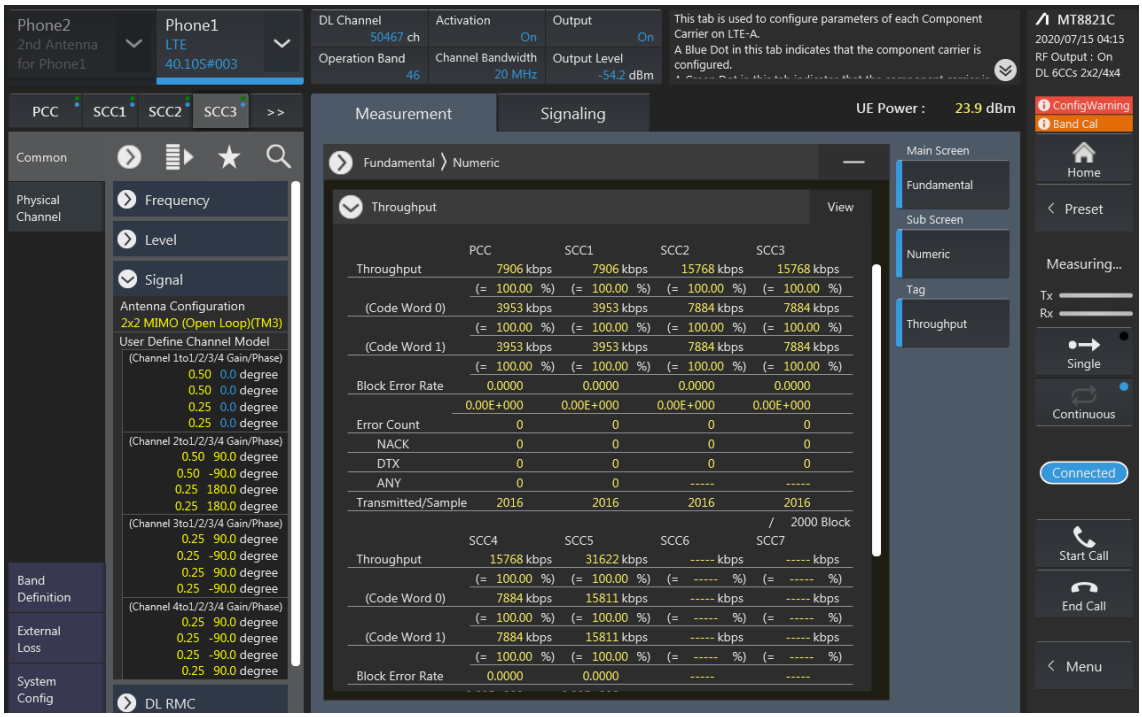
SCC1 Setting (Channel/ RB/ BW/ Modulation) and call Connection



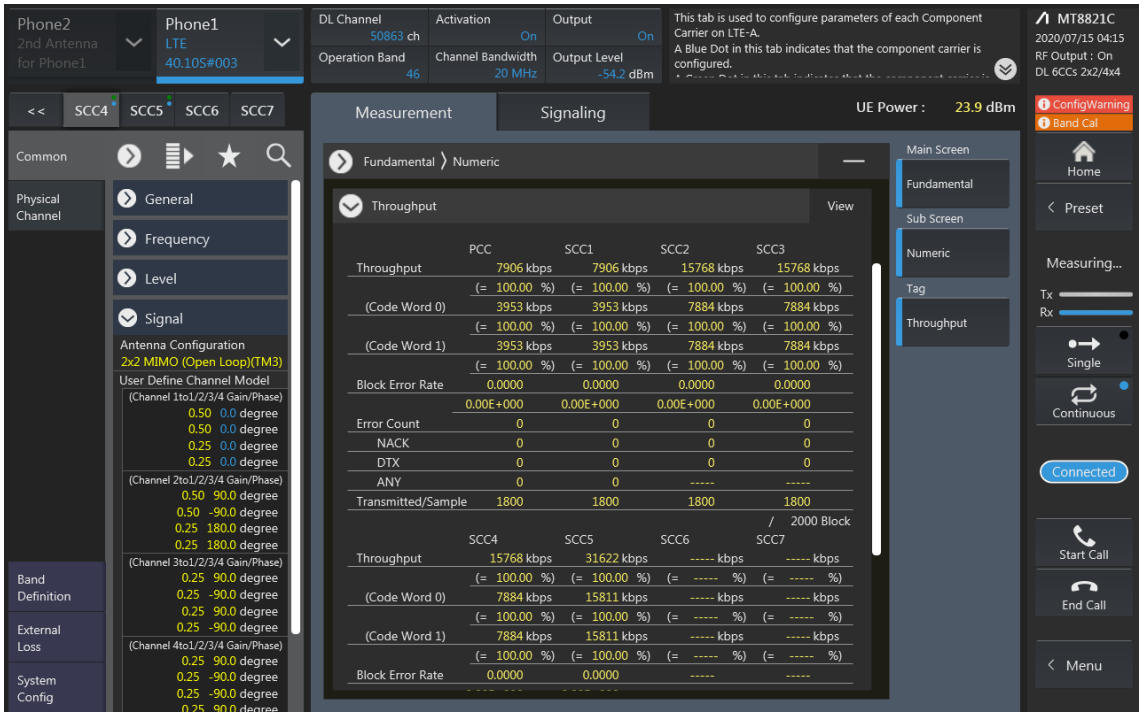
SCC2 Setting (Channel/ RB/ BW/ Modulation) and call Connection



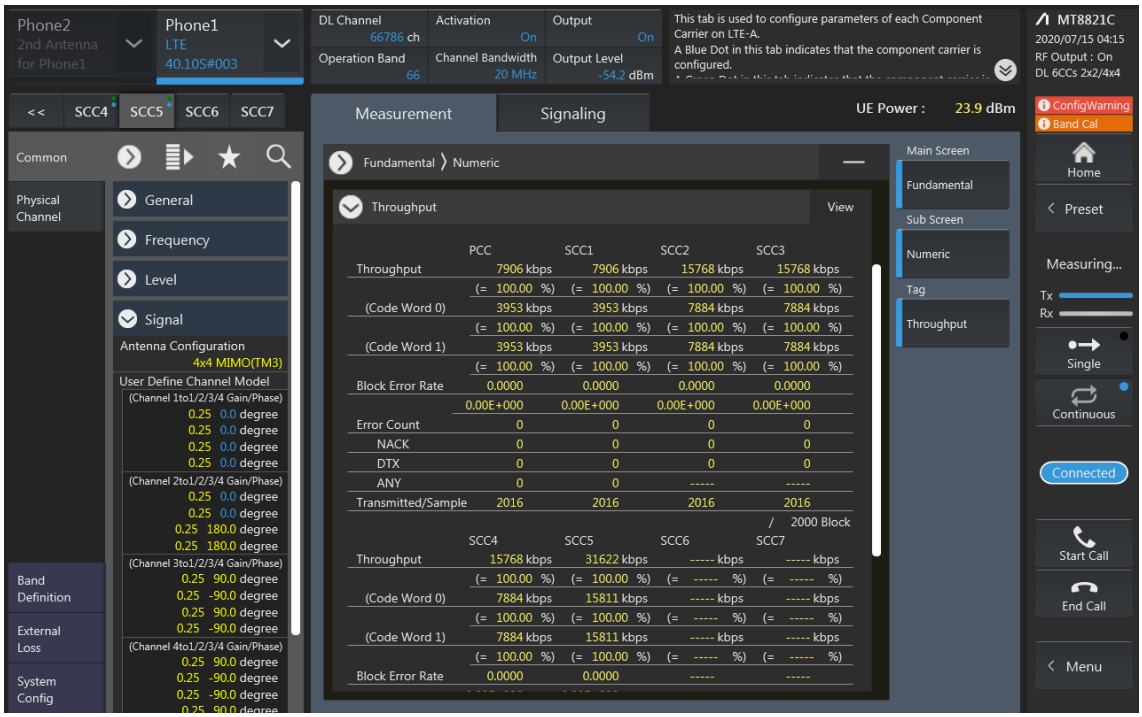
SCC3 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC4 Setting (Channel/ RB/ BW/ Modulation) and call Connection



SCC5 Setting (Channel/ RB/ BW/ Modulation) and call Connection



LTE Downlink 6CA 4X4 MIMO Maximum Conducted Power

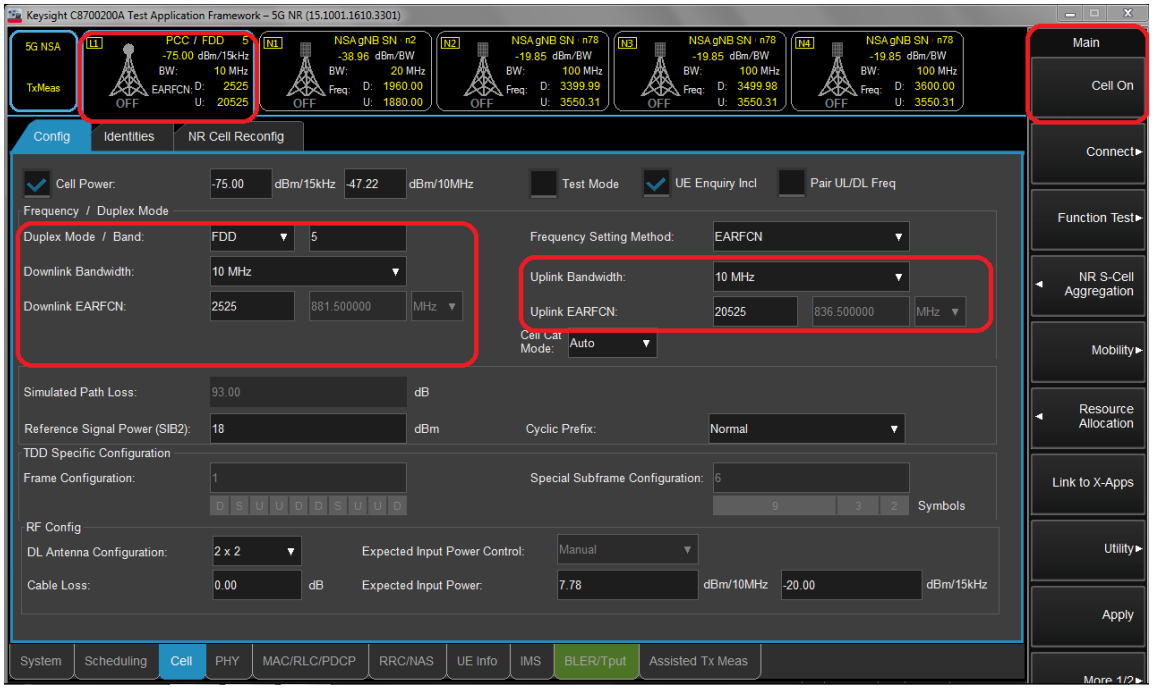
Combination	PCC									SCC				SCC				SCC				SCC				SCC				Tx Power		
	Band	BW	PCC UL Channel	PCC UL Frequency	PCC DL Channel	PCC DL Frequency	Modulation	RB	offset	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	Band	BW	SCC DL Channel	SCC DL Frequency	LTE Single Carrier Tx Power (dBm) (1)	LTE Tx Power with DL CA Enabled(dBm) (2)	Deviation(dB) (2)-(1)
2A-48E-[66A]	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	[66]	20	66786	2145	24.57	24.39	-0.18
2A-[48E]-66A	2	5	19175	1907.5	1175	1987.5	QPSK	1	12	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[48]	20	56169	3642.9	[48]	20	56367	3662.7	66	20	66786	2145	24.57	24.53	-0.04
[2A]-48E-66A	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	66	20	66786	2145	24.57	24.43	-0.14
[2A]-48E-[66A]	[2]	5	19175	1907.5	1175	1987.5	QPSK	1	12	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	[66]	20	66786	2145	24.57	24.57	0
2A-48E-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.4	24.39	-0.01
2A-[48E]-66A	66	20	132572	1770	67036	2190	QPSK	1	99	2	20	700	1940	[48]	20	55773	3603.3	[48]	20	55971	3623.1	[48]	20	56169	3642.9	[48]	20	56367	3662.7	24.4	24.44	0.04
[2A]-48E-66A	66	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.4	24.48	0.08
[2A]-48E-[66A]	[66]	20	132572	1770	67036	2190	QPSK	1	99	[2]	20	700	1940	48	20	55773	3603.3	48	20	55971	3623.1	48	20	56169	3642.9	48	20	56367	3662.7	24.4	24.5	0.1

2. 5G NR Call Box Setup

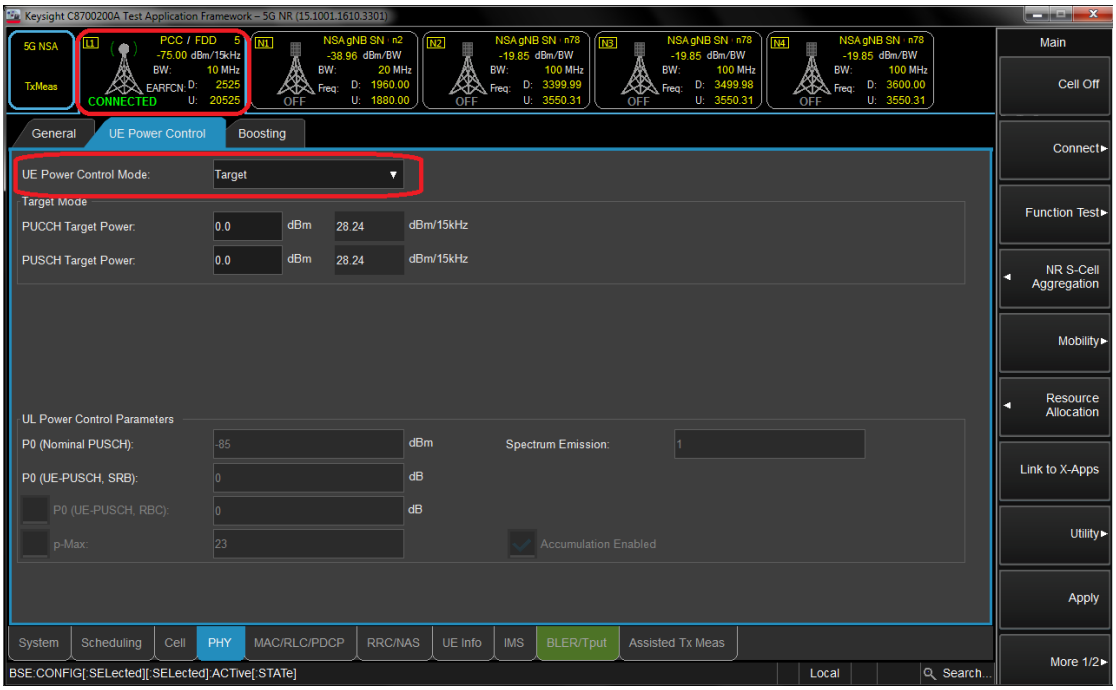
Procedure used to establish output Power measurement for NR Bands

Select operating band, BW and Channel.

- Click Cell on button in the right of Test application screen.
- Turn the LTE Cell On using “ON/OFF” Key.

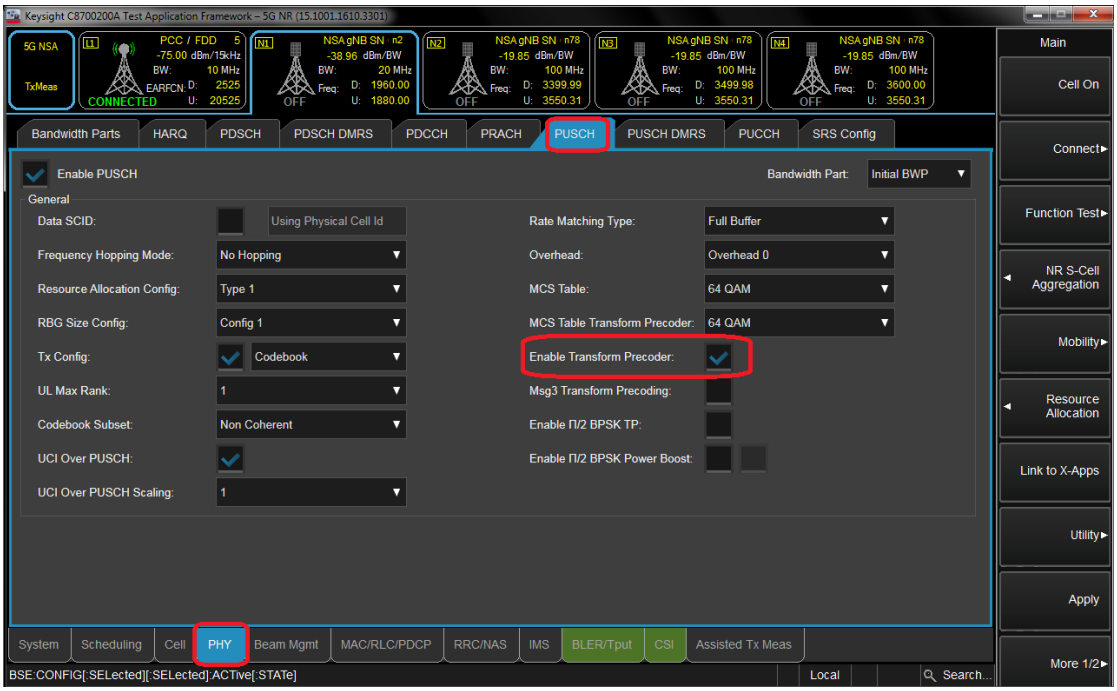


- Turn the Airplane Mode On and then turn the Airplane mode off.
- Select All down bits for UL Power control Mode in LTE.

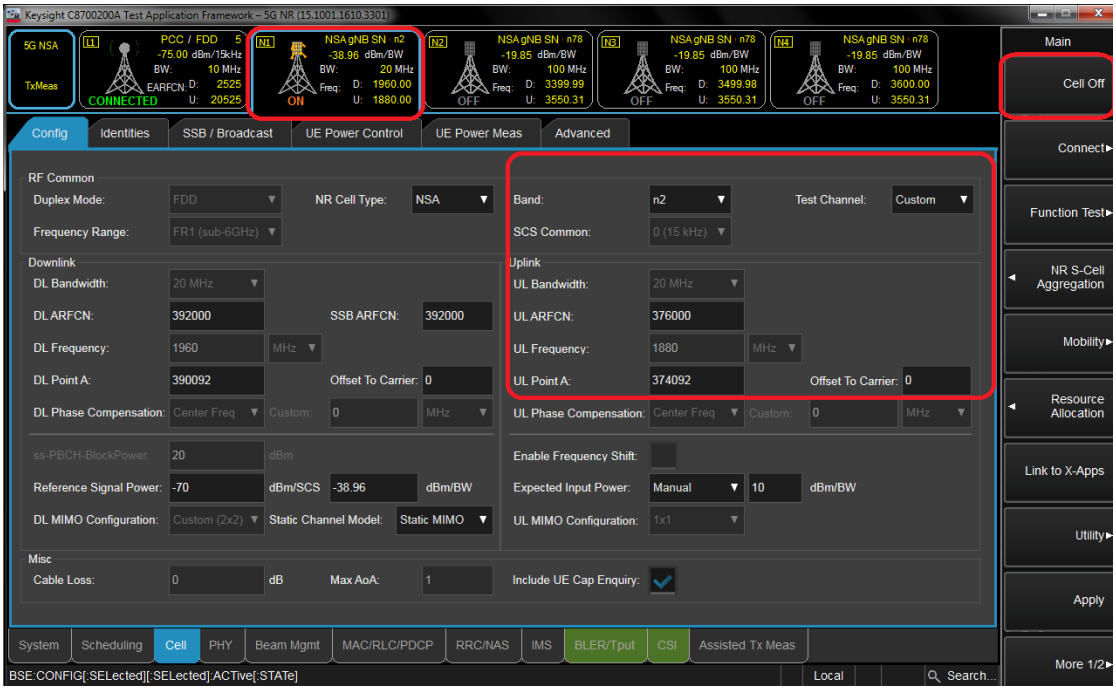


Setup for NR Band

- Select waveform for Setting NR Band (PHY->PUSCH->Enable Transform Precoder)
  - Enable : DFT-s-OFDM, Disable : CP-OFDM

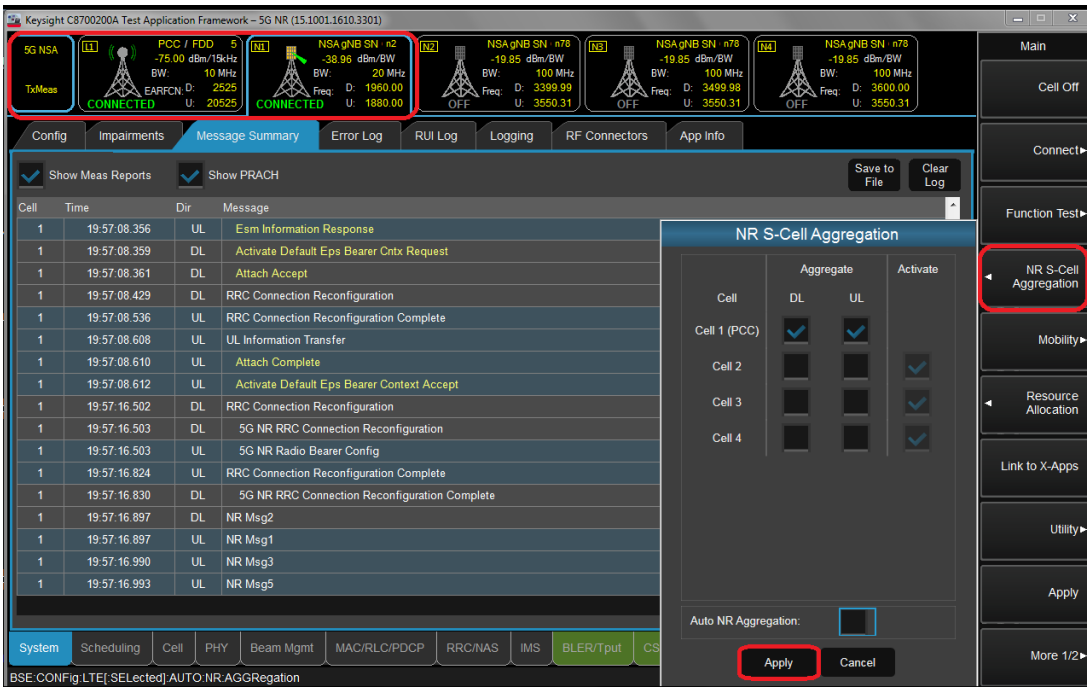


- Select operating band, BW, SCS and Channel.
- Turn the NR Cell On using “ON/OFF” Key.



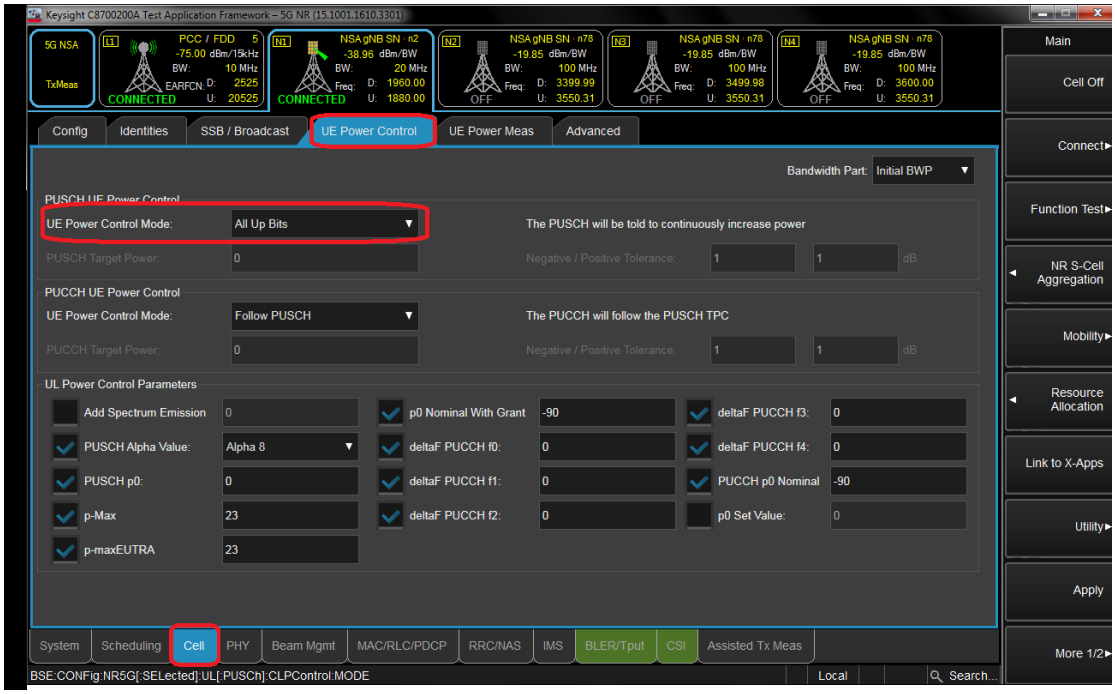
Connect NR S-Cell Aggregation

- Click NR S-Cell Aggregation
- Check the Cell 1's DL and UL box(PCC) and then Click Apply.
- Check the message summary If message shows NR Msg 5, It is connected.



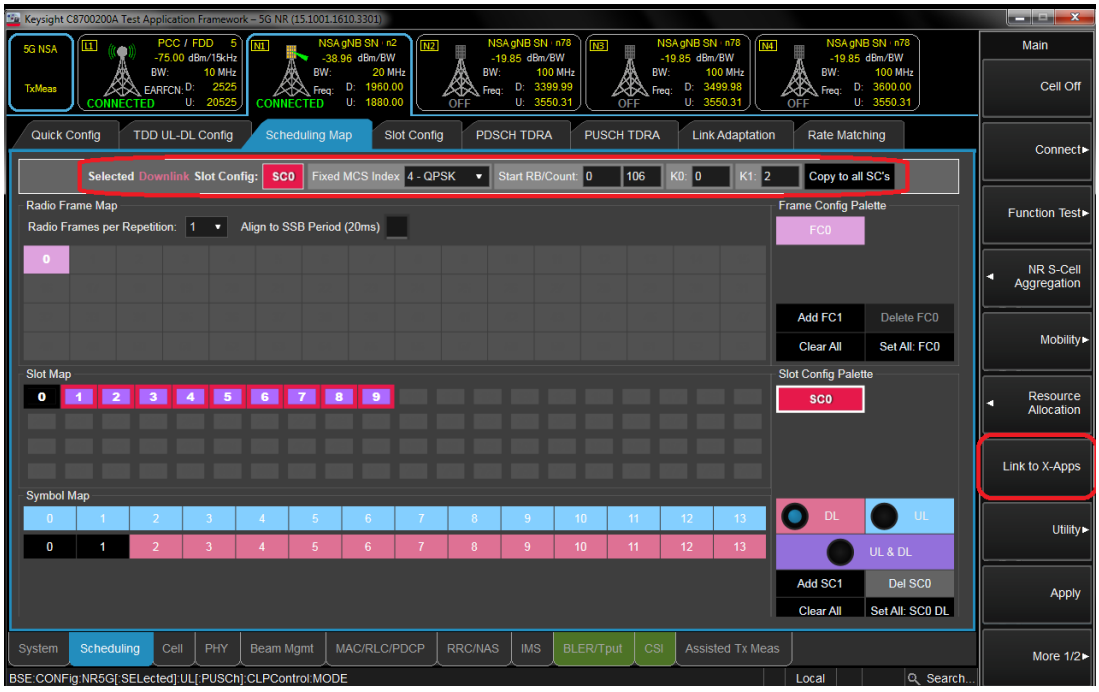
Max Power setting

- Click "Cell in the bottom of screen.
- Click "UE Power control" then change UE Power control mode to All Up bits.



Selecting Start RB/Count/MCS

- Select the each test configurating (Start RB, Count, MCS).



View Tx Power

- Click “Link to X-Apps.”(Please refer to Figure-7)
- Select “Channel Power”.