

1. LTE Downlink Carrier Aggregation configurations

1. DL Inter Band(3CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth					Max Aggregated BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	
2A-4A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	40
		Band 4			Yes	Yes	Yes	
	(1)	Band 2		Yes	Yes	Yes	Yes	20
		Band 4		Yes	Yes			
(2)	Band 2		Yes	Yes	Yes	Yes	40	
	Band 4		Yes	Yes	Yes	Yes		
2A-5A	(0)	Band 2		Yes	Yes	Yes	Yes	30
	Band 5		Yes	Yes				
(1)	Band 2		Yes	Yes			20	
	Band 5		Yes	Yes				
2A-12A	(0)	Band 2		Yes	Yes	Yes	Yes	30
2A-17A	(0)	Band 2		Yes	Yes			20
		Band 17		Yes	Yes			
2A-66A	(0)	Band 2	Yes	Yes	Yes	Yes	Yes	40
		Band 66		Yes	Yes	Yes	Yes	
	(1)	Band 2		Yes	Yes			20
		Band 66		Yes	Yes			
(2)	Band 2		Yes	Yes	Yes	Yes	40	
	Band 66		Yes	Yes	Yes	Yes		
4A-5A	(0)	Band 2		Yes	Yes			20
		Band 71		Yes	Yes			
(1)	Band 4		Yes	Yes	Yes	Yes	30	
	Band 5		Yes	Yes				
4A-12A	(0)	Band 4	Yes	Yes	Yes	Yes		20
		Band 12		Yes	Yes	Yes		
	(1)	Band 4	Yes	Yes	Yes	Yes	Yes	30
		Band 12		Yes	Yes			
	(2)	Band 4		Yes	Yes	Yes	Yes	30
		Band 12		Yes	Yes			
(3)	Band 4		Yes	Yes			20	
	Band 12		Yes	Yes				
(4)	Band 4		Yes	Yes	Yes	Yes	30	
	Band 12		Yes	Yes				
(5)	Band 4		Yes	Yes	Yes		20	
	Band 12		Yes	Yes				
4A-17A	(0)	Band 4		Yes	Yes			20
		Band 17		Yes	Yes			
5A-41A	(0)	Band 5		Yes	Yes		Yes	30
		Band 41		Yes	Yes			
5A-66A	(0)	Band 5		Yes	Yes		Yes	30
		Band 66		Yes	Yes	Yes	Yes	
12A-66A	(0)	Band 12		Yes	Yes			20
		Band 66	Yes	Yes	Yes	Yes		
	(1)	Band 12		Yes	Yes			30
		Band 66	Yes	Yes	Yes	Yes	Yes	
	(2)	Band 12		Yes	Yes			30
		Band 66		Yes	Yes	Yes	Yes	
(3)	Band 12		Yes	Yes			20	
	Band 66		Yes	Yes				
(4)	Band 12		Yes	Yes			30	
	Band 66		Yes	Yes	Yes	Yes		
(5)	Band 12		Yes				20	
	Band 66		Yes	Yes	Yes			
26A-41A	(0)	Band 26		Yes	Yes	Yes		35
		Band 41		Yes	Yes	Yes	Yes	

2. DL Inter Band(3CC)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Bandwidth					Max Aggregated BW
			1.4 MHz	3 MHz	5 MHz	10 MHz	15 MHz	
2A-4A-5A	(0)	Band 2		Yes	Yes	Yes	Yes	
		Band 4		Yes	Yes	Yes	Yes	
		Band 5		Yes	Yes	Yes	Yes	
4A-4A-12A	(0)	Band 4	4A-4A BCS 0					50
		Band 12		Yes	Yes			
4A-4A-17A	(0)	Band 4	4A-4A BCS 0					60
		Band 17		Yes	Yes	Yes	Yes	
5A-66A-66A	(0)	Band 66	66A-66A BCS0					50
		Band 12		Yes	Yes			
12A-66A-66A	(0)	Band 66	66A-66A BCS0					50
		Band 26		Yes	Yes	Yes		
26A-41C	(0)	Band 41	41C BCS1					55
		Band 26		Yes	Yes	Yes		

4. DL Intra Band(non-contiguous)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)				Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	
2A-2A	(0)	Band 2	5, 10, 15, 20	5, 10, 15, 20			40
		Band 4	5, 10, 15, 20	5, 10, 15, 20			
4A-4A	(1)	Band 4	5, 10	5, 10			20
		Band 4	5, 10	5, 10			
41A-41A	(0)	Band 41	10, 15, 20	10, 15, 20			40
		Band 41	5, 10, 15, 20	5, 10, 15, 20			
41A-41C	(0)	Band 41	5, 10, 15, 20	41C BCS 1			60
		Band 41	41C BCS 1		5, 10, 15, 20		
41A-41D	(0)	Band 41	15, 20	BCS 0			80
		Band 41	41D BCS 0	5, 10, 15, 20			
41C-41C	(0)	Band 41	41C BCS 1			80	
41C-41D	(0)	Band 41	41C BCS 0	41D BCS 0		100	
66A-66A	(0)	Band 66	5, 10, 15, 20	5, 10, 15, 20		40	

8. DL Intra Band(contiguous)

E-UTRA CA configuration	Bandwidth Combination Set	E-UTRA Band	Allowed Channel BW Per Carrier (MHz)					Max Aggregated BW
			1st Carrier	2nd Carrier	3rd Carrier	4th Carrier	5th Carrier	
41C	(0)	Band 41	10	20				40
			15	15, 20				
			20	10, 15, 20				
	(1)	Band 41	5, 10	20				40
			15	15, 20				
			20	5, 10, 15, 20				
(2)	Band 41	10	15, 20				40	
		15	10, 15, 20					
		20	10, 15, 20					
(3)	Band 41	10	20				40	
		20	20					
		20	10, 15, 20					
41D	(0)	Band 41	10	20	15			60
			15	15, 20	20			
			20	10, 15, 20	20			
			20	15, 20	10			
			20	10, 15, 20	15, 20			
41E	(0)	Band 41	15, 20	15, 20	15, 20	20	80	
66B	(0)	Band 66	5	5, 10, 15				20
			10	5, 10				
			15	5				
66C	(0)	Band 66	5	20				40
			10	15, 20				
			15	10, 15, 20				

LTE Downlink Carrier Aggregation Combinations

The DL CA power measurement conditions for various CC's combinations were determined according LTE DL CA SAR Test Exclusion guidance in TCB workshop note (April 2018). Only yellow highlighted cells need power measurement. The following power measurements were performed with a single carrier uplink; CA for this particular project only supports one (1) uplink and up to four (4) downlinks.

LTE Release 10 Carrier Aggregation

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#1	2A-2A		
2CC#2	2C		
2CC#3	2A-4A		3CC#1
2CC#4	2A-5A		3CC#1
2CC#5	2A-12A		
2CC#6	2A-17A		
2CC#7	2A-66A		
2CC#8	4A-4A		3CC#3
2CC#9	4A-5A		3CC#1
2CC#10	4A-12A		3CC#3
2CC#11	4A-17A	B17 SCC Only	3CC#4
2CC#12	5A-41A	B41 SCC Only	
2CC#13	5A-66A		3CC#5
2CC#14	12A-66A		3CC#6
2CC#15	26A-41A	B41 SCC Only	
2CC#16	41A-41A		
2CC#17	41C		3CC#7
2CC#18	66A-66A		3CC#6
2CC#19	66B		
2CC#20	66C		

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	2A-4A-5A		
3CC#2	4A-4A-12A		
3CC#3	4A-4A-17A	B17 SCC Only	
3CC#4	5A-66A-66A		
3CC#5	12A-66A-66A		
3CC#6	26A-41C	B41 SCC Only	
3CC#7	41A-41C		
3CC#8	41D		4CC#2

Index	4CC	Restriction	Completely Covered by Measurement Superset
4CC#1	41A-41D		
4CC#2	41C-41C		
4CC#3	41E		

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).

LTE Release 10 Carrier Aggregation with 4x4 MIMO

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC#1	2A-[4A]		3CC#1
2CC#2	2A-[66A]		
2CC#3	[4A]-[4A]		3CC#3
2CC#4	[4A]-5A		3CC#1
2CC#5	[4A]-12A		3CC#3
2CC#6	[4A]-17A	B17 SCC Only	3CC#4
2CC#7	5A-[41A]	B41 SCC Only	
2CC#8	5A-[66A]		3CC#5
2CC#9	12A-[66A]		3CC#6
2CC#10	26A-[41A]	B41 SCC Only	
2CC#11	[41A]-[41A]		
2CC#12	[41C]		4CC#2
2CC#13	[66A]-[66A]		3CC#5

Index	3CC	Restriction	Completely Covered by Measurement Superset
3CC#1	2A-[4A]-5A		
3CC#2	[4A]-[4A]-12A		
3CC#3	[4A]-[4A]-17A	B17 SCC Only	
3CC#4	5A-[66A]-[66A]		
3CC#5	12A-[66A]-[66A]		
3CC#6	26A-[41C]	B41 SCC Only	
3CC#7	[41A]-[41C]		
3CC#8	[41D]		

Index	4CC	Restriction
4CC#1	[41C]-41C	
4CC#2	[41A]-41D	

Note:

Only yellow highlight cells need power measurement according to LTE DL CA SAR test Exclusion in TCB workshop (April.2018).
[*] is 4X4 MIMO configuration.

Single Carrier Downlink 4x4 MIMO output power results

LTE Bands	Modulation	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	LTE Rel 8 Tx. Power [dBm]	DL 4x4 MIMO Tx. Power [dBm]	Delta
Band 4	QPSK	20	20175	1732.5	1/49	23.7	23.6	-0.07
Band 41	QPSK	20	40620	2593	1/99	23.6	23.7	0.01
Band 66	QPSK	20	132572	1770	1/49	24.5	24.5	0.04

Note:

According to LTE Test Conditions in TCB workshop (May, 2017), SAR is excluded for LTE downlink 4x4 MIMO operation when uplink output with DL MIMO does not exceed highest uplink output power configuration without DL MIMO by more than 1/4 dB. And for DL MIMO with carrier aggregation, the same SAR test exclusion procedure is considered.

DL CA output power results

E-UTRA CA configuration (BCS)	Bands							UL										DL										LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta													
	PCC		SCC1		SCC2		SCC3		SCC4		SCC5		SCC6		PCC					SCC1					SCC2						SCC3					SCC4							
	1st	2nd	3rd	4th	5th	6th	7th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Offset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)				BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)				
2A-2A	2A	2A						QPSK	20	19100	1900	1/49	20	1100	1980	20	700	1940																			23.7	23.7	-0.02				
2C	2C	2C						QPSK	20	19100	1900	1/49	20	1100	1980	20	902	1960.2																			23.7	23.7	-0.02				
2A-12A	2A	12A						QPSK	20	19100	1900	1/49	20	1100	1980	10	5095	737.5																			23.7	23.7	0.02				
	12A	2A						QPSK	10	23095	707.5	1/0	10	5095	737.5	20	900	1960																			24.6	24.7	0.03				
2A-17A	2A	17A						QPSK	20	19100	1900	1/49	20	1100	1980	10	5790	740																				23.7	23.8	0.09			
2A-66A	2A	66A						QPSK	20	19100	1900	1/49	20	1100	1980	20	66786	2145																				23.7	23.7	-0.02			
	66A	2A						QPSK	20	132572	1770	1/49	20	67036	2170	20	900	1960																				24.5	24.4	-0.04			
5A-41A	5A	41A						QPSK	10	20525	836.5	1/0	10	2525	881.5	20	40620	2593																				24.0	24.1	0.07			
26A-41A	26A	41A						QPSK	15	26865	831.5	1/0	15	8865	876.5	20	40620	2593																				23.8	23.7	-0.12			
41A-41A	41A	41A						QPSK	20	40620	2593	1/99	20	40620	2593	20	39750	2506																				23.6	23.7	0.01			
66B	66B	66B						QPSK	15	132597	1772.5	1/0	15	67061	2172.5	5	66879	2154.3																					24.5	24.5	0.04		
66C	66C	66C						QPSK	20	132572	1770	1/49	20	67036	2170	20	66734	2139.8																					24.5	24.6	0.13		
2A-4A-5A	2A	4A	5A					QPSK	20	19100	1900	1/49	20	1100	1980	20	2175	2132.5	10	2525	881.5																			23.7	23.7	0.02	
	4A	2A	5A					QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2525	881.5																			23.7	23.7	-0.02	
	5A	2A	4A					QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	2175	2132.5																			24.0	24.0	-0.04	
2A-4A-13A	2A	4A	13A					QPSK	20	19100	1900	1/49	20	1100	1980	20	2175	2132.5	10	5230	751																				23.7	23.7	0.05
	4A	2A	13A					QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751																			23.7	23.8	0.13	
4A-4A-12A	4A	4A	12A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5095	737.5																				24.0	23.9	-0.10
	12A	4A	4A					QPSK	10	23095	707.5	1/0	10	5095	737.5	15	2025	2117.5	15	2175	2132.5																			24.6	24.6	-0.02	
4A-4A-17A	4A	4A	17A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5790	740																				24.0	23.9	-0.09
	5A	66A	66A					QPSK	10	20525	836.5	1/0	10	2525	881.5	20	67036	2170	20	66536	2120																			24.0	23.9	-0.10	
5A-66A-66A	66A	66A	5A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	2525	881.5																				24.5	24.4	-0.01
	12A	66A	66A					QPSK	10	23095	707.5	1/0	10	5095	737.5	20	67036	2170	20	66536	2120																			24.6	24.7	0.03	
12A-66A-66A	66A	66A	12A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	5095	737.5																				24.5	24.4	-0.05
	26A	41C	41C					QPSK	15	26865	831.5	1/0	15	8865	876.5	20	40620	2593	20	40422	2573.2																			23.8	23.6	-0.18	
41A-41C	41A	41C	41C					QPSK	20	40620	2593	1/99	20	40620	2593	20	39750	2506	20	39948	2525.8																				23.6	23.6	-0.05
	41C	41C	41A					QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	39750	2506																			23.6	23.7	0.01	
41A-41D	41A	41D	41D	41D				QPSK	20	40620	2593	1/99	20	40620	2593	20	41490	2680	20	41292	2660.2	20	41094	2640.4																23.6	23.6	-0.03	
41C-41C	41C	41C	41C	41C				QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	41490	2680	20	41292	2660.2																	23.6	23.5	-0.15
41E	41E	41E	41E	41E	41E			QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	40224	2553.4	20	40026	2533.6	20	40224	2553.4														23.6	23.7	0.06

Note:

1. Per KDB 941225 D05A LTE Rel. 10 KDB Inquiry Sheet: SAR is excluded for Carrier Aggregation when measured power does not exceed LTE Release 8 by more than a 1/4 dB.
2. When the same frequency band is used for both contiguous and non-contiguous in DL CA Intra band, power was measured using the configuration with the largest aggregated bandwidth and maximum output power among the contiguous and non-contiguous in DL CA Intra band configurations.

DL CA with 4x4 MIMO output power results

E-UTRA CA configuration (BCS)	Bands							UL														DL												LTE Rel 8 Tx. Power [dBm]	LTE Rel 10 Tx. Power	Delta		
	PCC	SCC1	SCC2	SCC3	SCC4	SCC5	SCC6	PCC				SCC1				SCC2				SCC3				SCC4				SCC5				SCC6						
	1st	2nd	3rd	4th	5th	6th	7th	Mode	BW (MHz)	Channel	Freq. (MHz)	RB/Ofset	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)	BW (MHz)	Channel	Freq. (MHz)					
2A-66A	2A	[66A]						QPSK	20	19100	1900	1/49	20	1100	1980	20	66786	2145																23.7	23.6	-0.04		
	[66A]	2A						QPSK	20	132572	1770	1/49	20	67036	2170	20	900	1960																24.5	24.4	-0.04		
5A-41A	5A	[41A]						QPSK	10	20525	836.5	1/0	10	2525	881.5	20	40620	2593																24.0	24.0	-0.05		
26A-41A	26A	[41A]						QPSK	15	26865	831.5	1/0	15	8865	876.5	20	2593	40620																23.8	23.7	-0.07		
	[41A]	41A						QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506																23.6	23.7	0.01		
41A-41A	41A	[41A]						QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506																23.6	23.7	0.05		
	[41A]	[41A]						QPSK	20	41055	2636.5	1/0	20	41055	2636.5	20	39750	2506																23.6	23.6	-0.03		
2A-4A-5A	2A	[4A]	5A					QPSK	20	19100	1900	1/49	20	1100	1980	20	2175	2132.5	10	2525	881.5														23.7	23.7	-0.03	
	[4A]	2A	5A					QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	2525	881.5														23.7	23.6	-0.10	
	5A	2A	[4A]					QPSK	10	20525	836.5	1/0	10	2525	881.5	20	900	1960	20	2175	2132.5														24.0	24.0	-0.03	
2A-4A-13A	2A	[4A]	13A					QPSK	20	19100	1900	1/49	20	1100	1980	20	2175	2132.5	10	5230	751														23.7	23.7	0.02	
	[4A]	2A	13A					QPSK	20	20175	1732.5	1/49	20	2175	2132.5	20	900	1960	10	5230	751														23.7	23.7	0.03	
4A-4A-12A	[4A]	4A	12A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5095	737.5														24.0	23.9	-0.08	
	[4A]	[4A]	12A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5095	737.5														24.0	24.0	0.02	
	4A	[4A]	12A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5095	737.5														24.0	24.0	-0.02	
	12A	[4A]	4A					QPSK	10	23095	707.5	1/0	10	5095	737.5	15	2025	2117.5	15	2325	2147.5														24.6	24.6	-0.01	
4A-4A-17A	12A	[4A]	[4A]					QPSK	10	23095	707.5	1/0	10	5095	737.5	15	2025	2117.5	15	2325	2147.5															24.6	24.6	-0.02
	[4A]	4A	17A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5790	740															24.0	24.0	-0.05
	[4A]	[4A]	17A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5790	740															24.0	24.0	0.00
	4A	[4A]	17A					QPSK	15	20325	1747.5	1/0	15	2325	2147.5	15	2175	2132.5	10	5790	740															24.0	24.0	-0.02
5A-66A-66A	5A	[66A]	66A					QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66536	2120	20	67036	2170														24.0	23.9	-0.13	
	5A	[66A]	[66A]					QPSK	10	20525	836.5	1/0	10	2525	881.5	20	66536	2120	20	67036	2170														24.0	24.0	-0.03	
	[66A]	66A	5A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	2525	881.5															24.5	24.4	-0.05
	66A	[66A]	5A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	2525	881.5															24.5	24.5	0.02
	[66A]	[66A]	5A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	2525	881.5															24.5	24.5	0.05
12A-66A-66A	12A	[66A]	66A					QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66536	2120	20	67036	2170														24.6	24.6	-0.07	
	12A	[66A]	[66A]					QPSK	10	23095	707.5	1/0	10	5095	737.5	20	66536	2120	20	67036	2170														24.6	24.7	0.05	
	[66A]	66A	12A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	5095	737.5														24.5	24.4	-0.05	
	[66A]	[66A]	12A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	5095	737.5														24.5	24.5	0.05	
	66A	[66A]	12A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	5095	737.5														24.5	24.4	-0.05	
	66A	[66A]	12A					QPSK	20	132572	1770	1/49	20	67036	2170	20	66536	2120	10	5095	737.5														24.5	24.5	-0.05	
26A-41C	26A	[41C]	[41C]					QPSK	15	26865	831.5	1/0	20	8865	876.5	20	40620	2593	20	40422	2573.2														23.8	23.8	0.00	
41A-41C	[41A]	41C	41C					QPSK	20	40620	2593	1/99	20	40620	2593	20	39750	2506	20	39948	2525.8															23.6	23.5	-0.15
	41A	[41C]	[41C]					QPSK	20	40620	2593	1/99	20	40620	2593	20	39750	2506	20	39948	2525.8														23.6	23.7	0.03	
	[41A]	[41C]	[41C]					QPSK	20	40620	2593	1/99	20	40620	2593	20	39750	2506	20	39948	2525.8														23.6	23.7	0.03	
	41C	41C	[41A]					QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	39750	2506														23.6	23.7	0.02	
	[41C]	[41C]	41A					QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	39750	2506														23.6	23.7	0.01	
	[41C]	[41C]	[41A]					QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	39750	2506														23.6	23.7	0.05	
41D	[41D]	[41D]	[41D]					QPSK	20	40620	2593	1/99	20	40620	2593	20	40422	2573.5	20	40224	2553.4														23.6	23.6	-0.05	
41A-41D	[41A]	41D	41D	41D				QPSK	20	40620	2593	1/99	20	40620	2593	20	41490	2680	20	41292	2660.2	20	41094	2640.4											23.6	23.7	0.01	
	[41A]	[41D]	[41D]	[41D]				QPSK	20	40620	2593	1/99	20	40620	2593	20	41490	2680																				