

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	23.13
QPSK	699.7	23017	1.4	1	3	23.15
QPSK	699.7	23017	1.4	1	5	23.15
QPSK	699.7	23017	1.4	3	0	23.16
QPSK	699.7	23017	1.4	3	1	23.03
QPSK	699.7	23017	1.4	3	3	23.03
QPSK	699.7	23017	1.4	6	0	22.12
QPSK	707.5	23095	1.4	1	0	23.19
QPSK	707.5	23095	1.4	1	3	23.21
QPSK	707.5	23095	1.4	1	5	23.15
QPSK	707.5	23095	1.4	3	0	23.17
QPSK	707.5	23095	1.4	3	1	23.22
QPSK	707.5	23095	1.4	3	3	23.18
QPSK	707.5	23095	1.4	6	0	22.10
QPSK	715.3	23173	1.4	1	0	23.18
QPSK	715.3	23173	1.4	1	3	23.19
QPSK	715.3	23173	1.4	1	5	23.09
QPSK	715.3	23173	1.4	3	0	23.14
QPSK	715.3	23173	1.4	3	1	23.12
QPSK	715.3	23173	1.4	3	3	23.08
QPSK	715.3	23173	1.4	6	0	22.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.21
16QAM	699.7	23017	1.4	1	3	22.11
16QAM	699.7	23017	1.4	1	5	22.20
16QAM	699.7	23017	1.4	3	0	22.19
16QAM	699.7	23017	1.4	3	1	22.31
16QAM	699.7	23017	1.4	3	3	22.10
16QAM	699.7	23017	1.4	6	0	21.36
16QAM	707.5	23095	1.4	1	0	22.46
16QAM	707.5	23095	1.4	1	3	22.33
16QAM	707.5	23095	1.4	1	5	22.39
16QAM	707.5	23095	1.4	3	0	22.20
16QAM	707.5	23095	1.4	3	1	22.24
16QAM	707.5	23095	1.4	3	3	22.12
16QAM	707.5	23095	1.4	6	0	21.26
16QAM	715.3	23173	1.4	1	0	22.44
16QAM	715.3	23173	1.4	1	3	22.34
16QAM	715.3	23173	1.4	1	5	22.48
16QAM	715.3	23173	1.4	3	0	22.00
16QAM	715.3	23173	1.4	3	1	22.11
16QAM	715.3	23173	1.4	3	3	22.05
16QAM	715.3	23173	1.4	6	0	21.25
64QAM	699.7	23017	1.4	1	0	21.50
64QAM	699.7	23017	1.4	1	3	21.60
64QAM	699.7	23017	1.4	1	5	21.55
64QAM	699.7	23017	1.4	3	0	21.50
64QAM	699.7	23017	1.4	3	1	21.49
64QAM	699.7	23017	1.4	3	3	21.55
64QAM	699.7	23017	1.4	6	0	20.19
64QAM	707.5	23095	1.4	1	0	21.31
64QAM	707.5	23095	1.4	1	3	21.32
64QAM	707.5	23095	1.4	1	5	21.25
64QAM	707.5	23095	1.4	3	0	21.30
64QAM	707.5	23095	1.4	3	1	21.29
64QAM	707.5	23095	1.4	3	3	21.29
64QAM	707.5	23095	1.4	6	0	20.49
64QAM	715.3	23173	1.4	1	0	21.41
64QAM	715.3	23173	1.4	1	3	21.42
64QAM	715.3	23173	1.4	1	5	21.42
64QAM	715.3	23173	1.4	3	0	21.23
64QAM	715.3	23173	1.4	3	1	21.33
64QAM	715.3	23173	1.4	3	3	21.24
64QAM	715.3	23173	1.4	6	0	20.23

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.13
QPSK	700.5	23025	3	1	8	23.17
QPSK	700.5	23025	3	1	14	23.18
QPSK	700.5	23025	3	8	0	22.30
QPSK	700.5	23025	3	8	4	22.21
QPSK	700.5	23025	3	8	7	22.18
QPSK	700.5	23025	3	15	0	22.19
QPSK	707.5	23095	3	1	0	23.20
QPSK	707.5	23095	3	1	8	23.16
QPSK	707.5	23095	3	1	14	23.22
QPSK	707.5	23095	3	8	0	22.21
QPSK	707.5	23095	3	8	4	22.36
QPSK	707.5	23095	3	8	7	22.14
QPSK	707.5	23095	3	15	0	22.17
QPSK	714.5	23165	3	1	0	23.15
QPSK	714.5	23165	3	1	8	23.21
QPSK	714.5	23165	3	1	14	23.17
QPSK	714.5	23165	3	8	0	22.23
QPSK	714.5	23165	3	8	4	22.33
QPSK	714.5	23165	3	8	7	22.24
QPSK	714.5	23165	3	15	0	22.15

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	22.47
16QAM	700.5	23025	3	1	8	22.52
16QAM	700.5	23025	3	1	14	22.46
16QAM	700.5	23025	3	8	0	21.17
16QAM	700.5	23025	3	8	4	21.31
16QAM	700.5	23025	3	8	7	21.28
16QAM	700.5	23025	3	15	0	21.24
16QAM	707.5	23095	3	1	0	22.42
16QAM	707.5	23095	3	1	8	22.43
16QAM	707.5	23095	3	1	14	22.29
16QAM	707.5	23095	3	8	0	21.39
16QAM	707.5	23095	3	8	4	21.23
16QAM	707.5	23095	3	8	7	21.23
16QAM	707.5	23095	3	15	0	21.19
16QAM	714.5	23165	3	1	0	22.17
16QAM	714.5	23165	3	1	8	22.42
16QAM	714.5	23165	3	1	14	22.25
16QAM	714.5	23165	3	8	0	21.36
16QAM	714.5	23165	3	8	4	21.24
16QAM	714.5	23165	3	8	7	21.25
16QAM	714.5	23165	3	15	0	21.20
64QAM	700.5	23025	3	1	0	21.32
64QAM	700.5	23025	3	1	8	21.43
64QAM	700.5	23025	3	1	14	21.64
64QAM	700.5	23025	3	8	0	20.39
64QAM	700.5	23025	3	8	4	20.33
64QAM	700.5	23025	3	8	7	20.31
64QAM	700.5	23025	3	15	0	20.28
64QAM	707.5	23095	3	1	0	21.33
64QAM	707.5	23095	3	1	8	21.48
64QAM	707.5	23095	3	1	14	21.36
64QAM	707.5	23095	3	8	0	20.30
64QAM	707.5	23095	3	8	4	20.20
64QAM	707.5	23095	3	8	7	20.28
64QAM	707.5	23095	3	15	0	20.23
64QAM	714.5	23165	3	1	0	21.46
64QAM	714.5	23165	3	1	8	21.63
64QAM	714.5	23165	3	1	14	21.49
64QAM	714.5	23165	3	8	0	20.24
64QAM	714.5	23165	3	8	4	20.30
64QAM	714.5	23165	3	8	7	20.23
64QAM	714.5	23165	3	15	0	20.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.21
QPSK	701.5	23035	5	1	12	23.21
QPSK	701.5	23035	5	1	24	23.16
QPSK	701.5	23035	5	12	0	22.17
QPSK	701.5	23035	5	12	7	22.25
QPSK	701.5	23035	5	12	13	22.23
QPSK	701.5	23035	5	25	0	22.24
QPSK	707.5	23095	5	1	0	23.17
QPSK	707.5	23095	5	1	12	23.16
QPSK	707.5	23095	5	1	24	23.21
QPSK	707.5	23095	5	12	0	22.38
QPSK	707.5	23095	5	12	7	22.32
QPSK	707.5	23095	5	12	13	22.26
QPSK	707.5	23095	5	25	0	22.25
QPSK	713.5	23155	5	1	0	23.19
QPSK	713.5	23155	5	1	12	23.20
QPSK	713.5	23155	5	1	24	23.21
QPSK	713.5	23155	5	12	0	22.40
QPSK	713.5	23155	5	12	7	22.33
QPSK	713.5	23155	5	12	13	22.26
QPSK	713.5	23155	5	25	0	22.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.43
16QAM	701.5	23035	5	1	12	22.33
16QAM	701.5	23035	5	1	24	22.43
16QAM	701.5	23035	5	12	0	21.25
16QAM	701.5	23035	5	12	7	21.30
16QAM	701.5	23035	5	12	13	21.28
16QAM	701.5	23035	5	25	0	21.28
16QAM	707.5	23095	5	1	0	22.47
16QAM	707.5	23095	5	1	12	22.42
16QAM	707.5	23095	5	1	24	22.48
16QAM	707.5	23095	5	12	0	21.22
16QAM	707.5	23095	5	12	7	21.26
16QAM	707.5	23095	5	12	13	21.26
16QAM	707.5	23095	5	25	0	21.32
16QAM	713.5	23155	5	1	0	22.40
16QAM	713.5	23155	5	1	12	22.37
16QAM	713.5	23155	5	1	24	22.41
16QAM	713.5	23155	5	12	0	21.23
16QAM	713.5	23155	5	12	7	21.34
16QAM	713.5	23155	5	12	13	21.30
16QAM	713.5	23155	5	25	0	21.22
64QAM	701.5	23035	5	1	0	21.29
64QAM	701.5	23035	5	1	12	21.48
64QAM	701.5	23035	5	1	24	21.38
64QAM	701.5	23035	5	12	0	20.28
64QAM	701.5	23035	5	12	7	20.38
64QAM	701.5	23035	5	12	13	20.34
64QAM	701.5	23035	5	25	0	20.34
64QAM	707.5	23095	5	1	0	21.53
64QAM	707.5	23095	5	1	12	21.53
64QAM	707.5	23095	5	1	24	21.66
64QAM	707.5	23095	5	12	0	20.33
64QAM	707.5	23095	5	12	7	20.31
64QAM	707.5	23095	5	12	13	20.35
64QAM	707.5	23095	5	25	0	20.34
64QAM	713.5	23155	5	1	0	21.54
64QAM	713.5	23155	5	1	12	21.39
64QAM	713.5	23155	5	1	24	21.47
64QAM	713.5	23155	5	12	0	20.31
64QAM	713.5	23155	5	12	7	20.45
64QAM	713.5	23155	5	12	13	20.31
64QAM	713.5	23155	5	25	0	20.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.15
QPSK	704	23060	10	1	25	23.14
QPSK	704	23060	10	1	49	23.21
QPSK	704	23060	10	25	0	22.19
QPSK	704	23060	10	25	12	22.32
QPSK	704	23060	10	25	25	22.29
QPSK	704	23060	10	50	0	22.23
QPSK	707.5	23095	10	1	0	23.25
QPSK	707.5	23095	10	1	25	23.21
QPSK	707.5	23095	10	1	49	23.25
QPSK	707.5	23095	10	25	0	22.24
QPSK	707.5	23095	10	25	12	22.23
QPSK	707.5	23095	10	25	25	22.21
QPSK	707.5	23095	10	50	0	22.34
QPSK	711	23130	10	1	0	23.21
QPSK	711	23130	10	1	25	23.23
QPSK	711	23130	10	1	49	23.25
QPSK	711	23130	10	25	0	22.29
QPSK	711	23130	10	25	12	22.31
QPSK	711	23130	10	25	25	22.35
QPSK	711	23130	10	50	0	22.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	22.56
16QAM	704	23060	10	1	25	22.51
16QAM	704	23060	10	1	49	22.55
16QAM	704	23060	10	25	0	21.28
16QAM	704	23060	10	25	12	21.30
16QAM	704	23060	10	25	25	21.23
16QAM	704	23060	10	50	0	21.34
16QAM	707.5	23095	10	1	0	22.43
16QAM	707.5	23095	10	1	25	22.44
16QAM	707.5	23095	10	1	49	22.48
16QAM	707.5	23095	10	25	0	21.32
16QAM	707.5	23095	10	25	12	21.32
16QAM	707.5	23095	10	25	25	21.32
16QAM	707.5	23095	10	50	0	21.24
16QAM	711	23130	10	1	0	22.49
16QAM	711	23130	10	1	25	22.55
16QAM	711	23130	10	1	49	22.40
16QAM	711	23130	10	25	0	21.36
16QAM	711	23130	10	25	12	21.37
16QAM	711	23130	10	25	25	21.39
16QAM	711	23130	10	50	0	21.38
64QAM	704	23060	10	1	0	21.56
64QAM	704	23060	10	1	25	21.69
64QAM	704	23060	10	1	49	21.67
64QAM	704	23060	10	25	0	20.24
64QAM	704	23060	10	25	12	20.39
64QAM	704	23060	10	25	25	20.44
64QAM	704	23060	10	50	0	20.30
64QAM	707.5	23095	10	1	0	21.26
64QAM	707.5	23095	10	1	25	21.35
64QAM	707.5	23095	10	1	49	21.47
64QAM	707.5	23095	10	25	0	20.32
64QAM	707.5	23095	10	25	12	20.10
64QAM	707.5	23095	10	25	25	20.39
64QAM	707.5	23095	10	50	0	20.32
64QAM	711	23130	10	1	0	21.49
64QAM	711	23130	10	1	25	21.56
64QAM	711	23130	10	1	49	21.27
64QAM	711	23130	10	25	0	20.34
64QAM	711	23130	10	25	12	20.47
64QAM	711	23130	10	25	25	20.52
64QAM	711	23130	10	50	0	20.30

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	QPSK	699.7	23017	1.4	6	0	1.08	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.07	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.08	Fig.3
12	QPSK	700.5	23025	3	15	0	2.68	Fig.4
12	QPSK	707.5	23095	3	15	0	2.68	Fig.5
12	QPSK	714.5	23165	3	15	0	2.67	Fig.6
12	QPSK	701.5	23035	5	25	0	4.47	Fig.7
12	QPSK	707.5	23095	5	25	0	4.46	Fig.8
12	QPSK	713.5	23155	5	25	0	4.46	Fig.9
12	QPSK	704	23060	10	50	0	8.94	Fig.10
12	QPSK	707.5	23095	10	50	0	8.92	Fig.11
12	QPSK	711	23130	10	50	0	8.89	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	16QAM	699.7	23017	1.4	6	0	1.07	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.07	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.08	Fig.15
12	16QAM	700.5	23025	3	15	0	2.68	Fig.16
12	16QAM	707.5	23095	3	15	0	2.67	Fig.17
12	16QAM	714.5	23165	3	15	0	2.68	Fig.18
12	16QAM	701.5	23035	5	25	0	4.46	Fig.19
12	16QAM	707.5	23095	5	25	0	4.46	Fig.20
12	16QAM	713.5	23155	5	25	0	4.46	Fig.21
12	16QAM	704	23060	10	50	0	8.91	Fig.22
12	16QAM	707.5	23095	10	50	0	8.90	Fig.23
12	16QAM	711	23130	10	50	0	8.86	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	64QAM	699.7	23017	1.4	6	0	1.07	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.07	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.07	Fig.27
12	64QAM	700.5	23025	3	15	0	2.67	Fig.28
12	64QAM	707.5	23095	3	15	0	2.66	Fig.29
12	64QAM	714.5	23165	3	15	0	2.68	Fig.30
12	64QAM	701.5	23035	5	25	0	4.45	Fig.31
12	64QAM	707.5	23095	5	25	0	4.45	Fig.32
12	64QAM	713.5	23155	5	25	0	4.45	Fig.33
12	64QAM	704	23060	10	50	0	8.93	Fig.34
12	64QAM	707.5	23095	10	50	0	8.90	Fig.35
12	64QAM	711	23130	10	50	0	8.88	Fig.36

Test Mode: QPSK

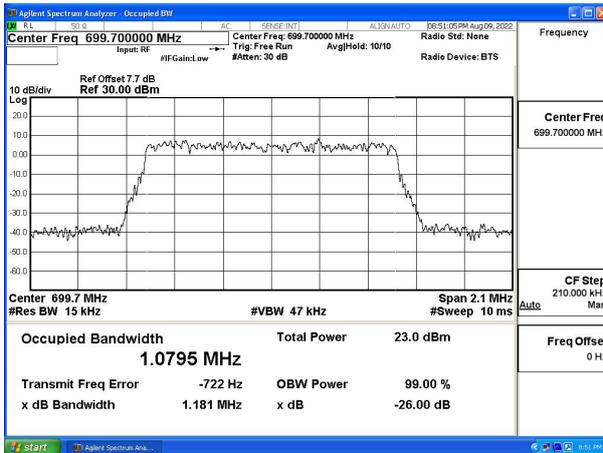


Fig.1

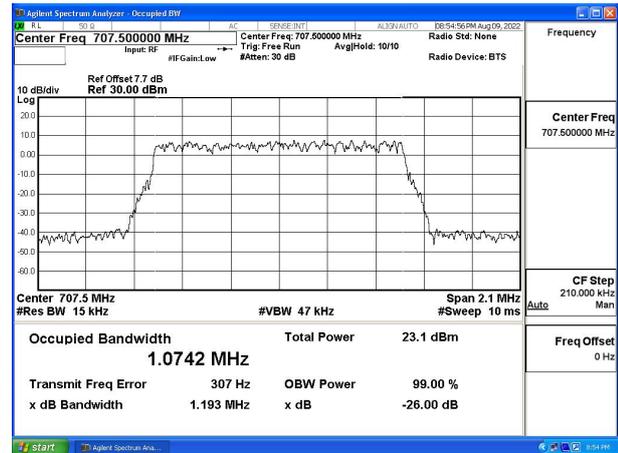


Fig.2

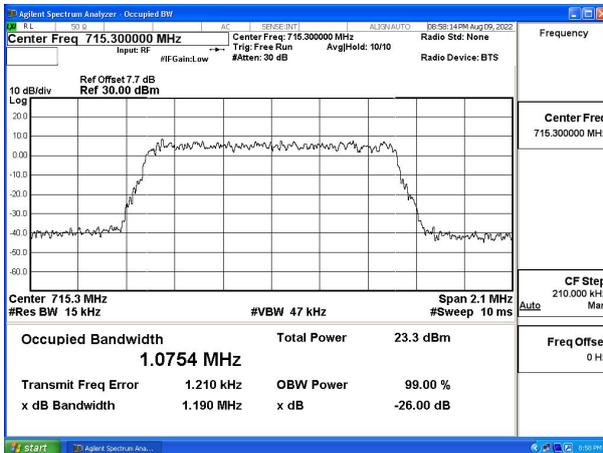


Fig.3

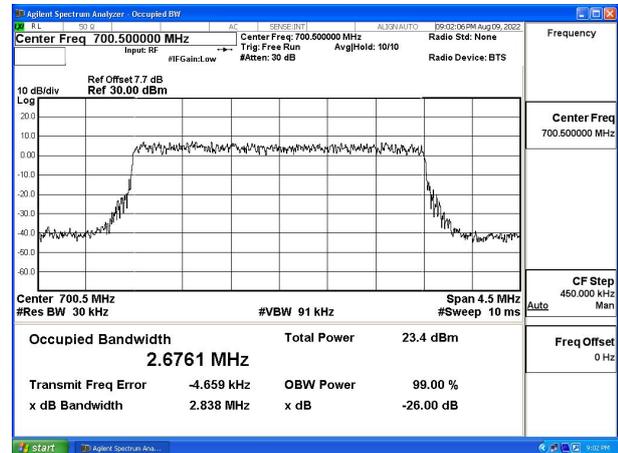


Fig.4

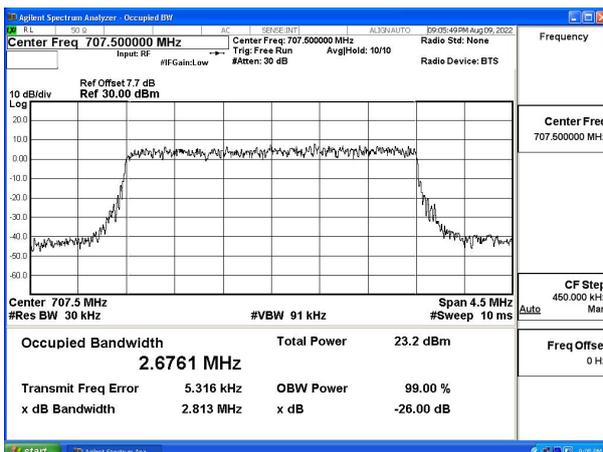


Fig.5

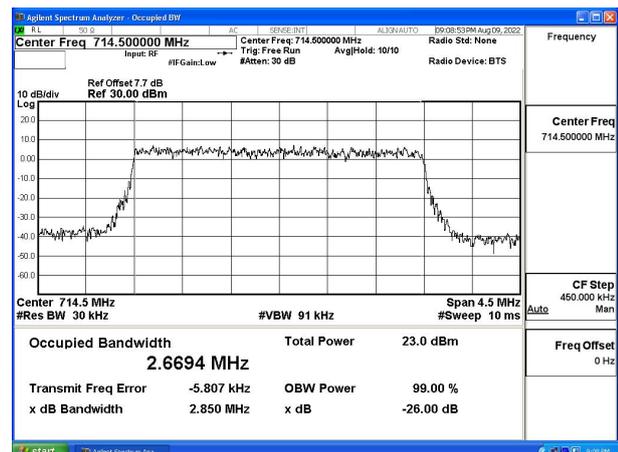


Fig.6

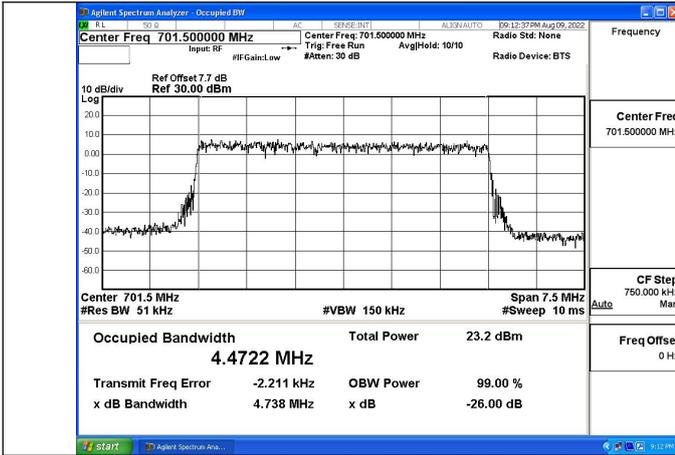


Fig.7

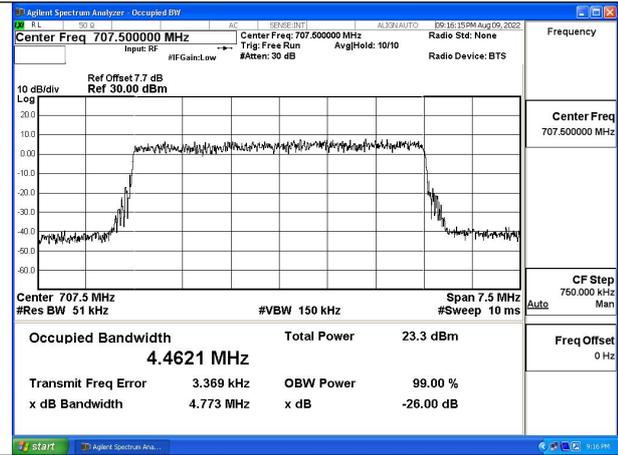


Fig.8

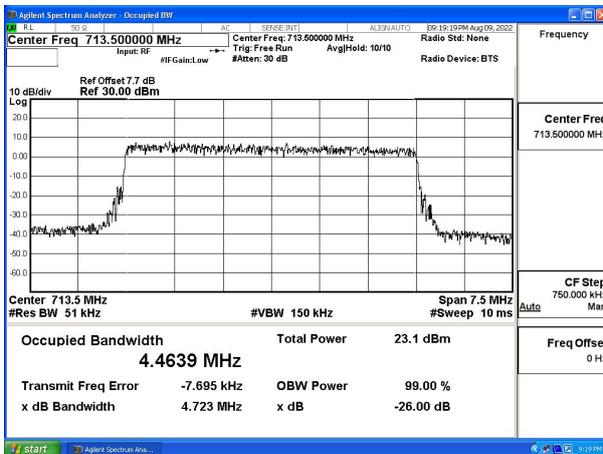


Fig.9

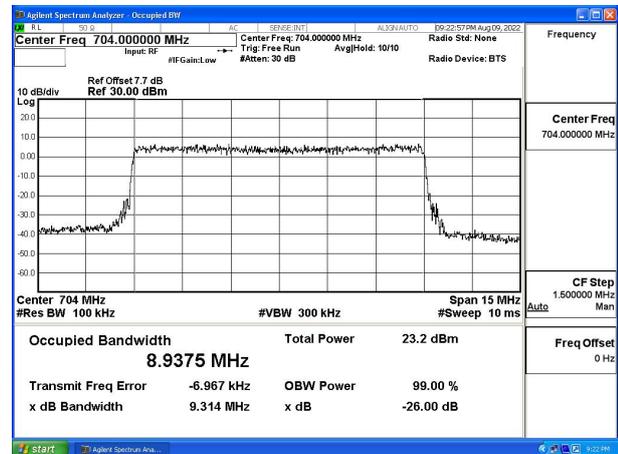


Fig.10

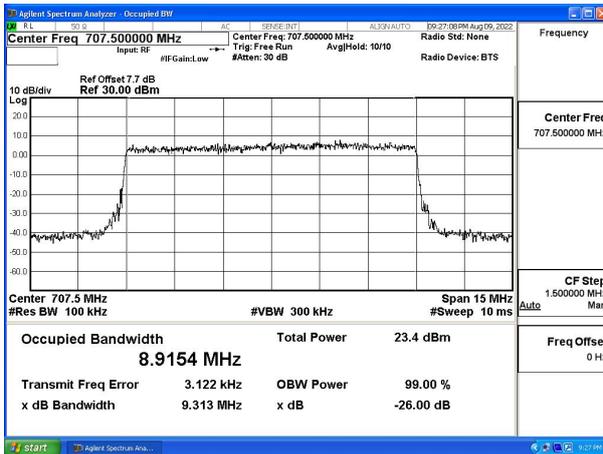


Fig.11

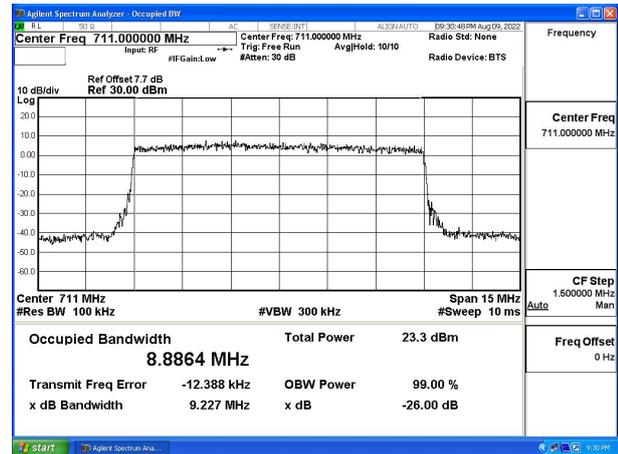


Fig.12

Test Mode: 16QAM

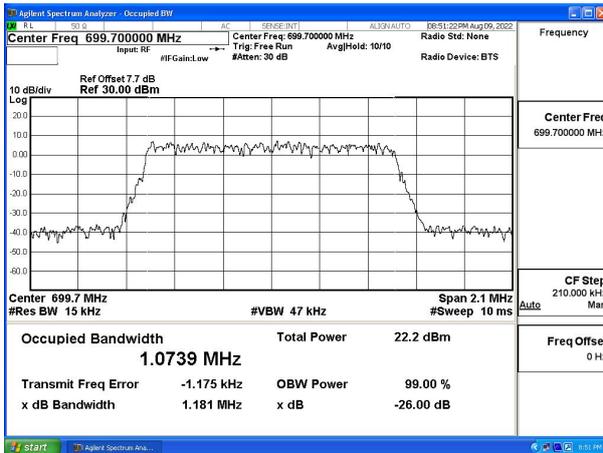


Fig.13

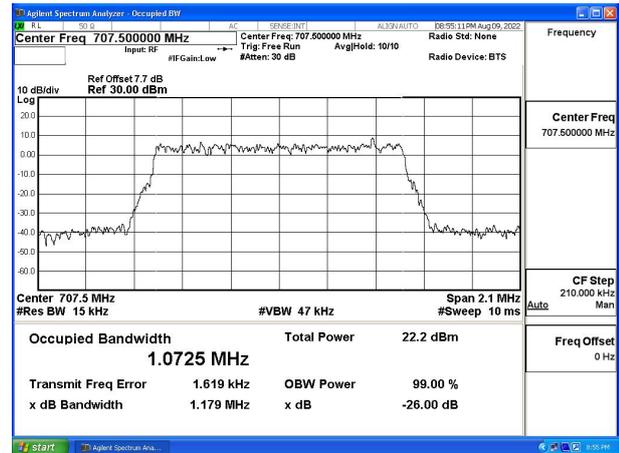


Fig.14

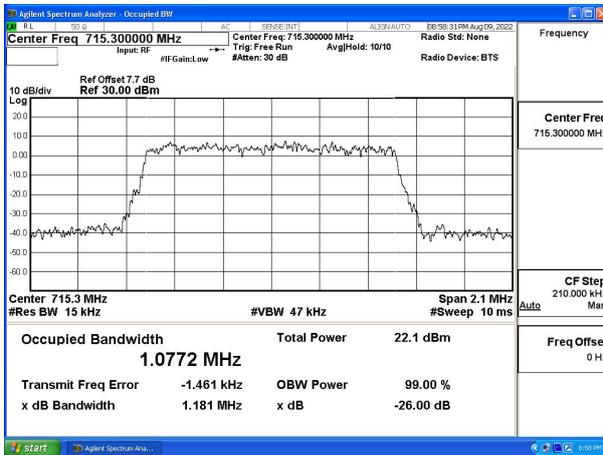


Fig.15

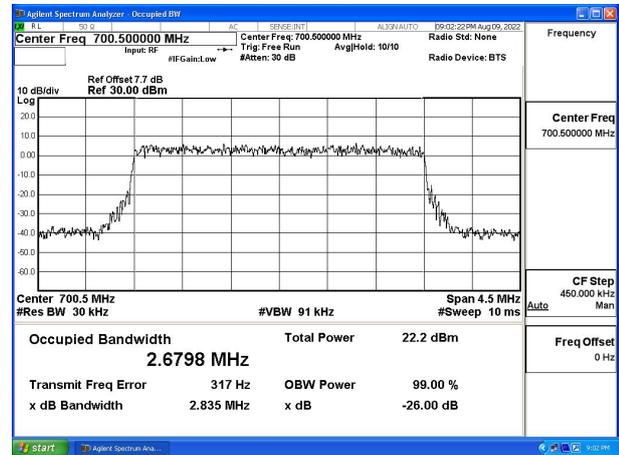


Fig.16

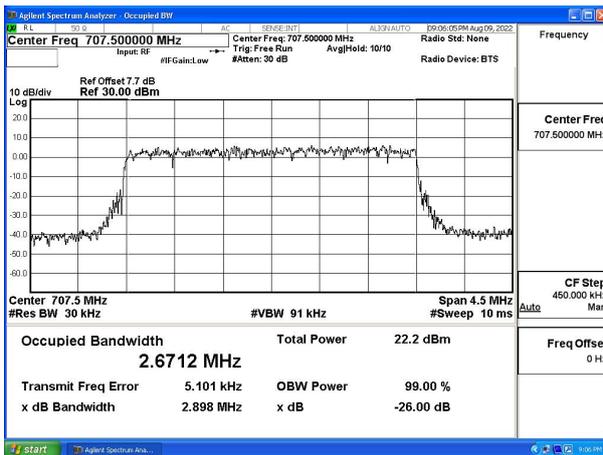


Fig.17

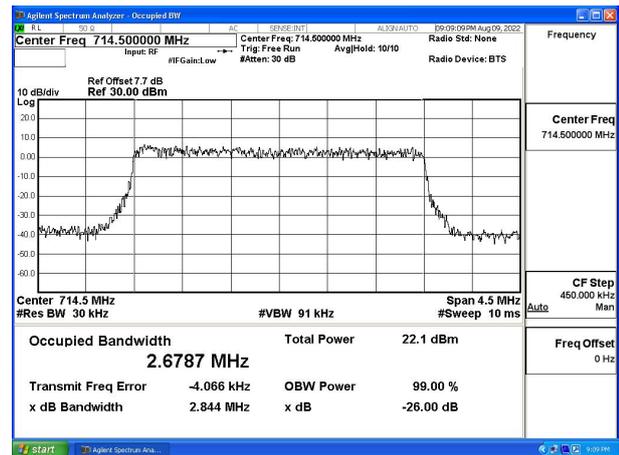


Fig.18

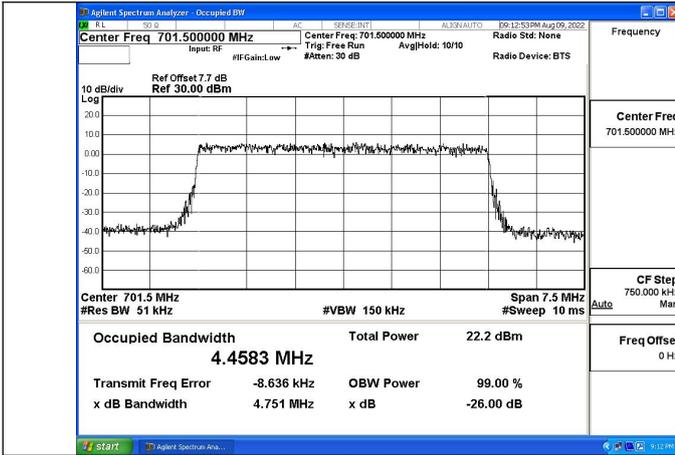


Fig.19

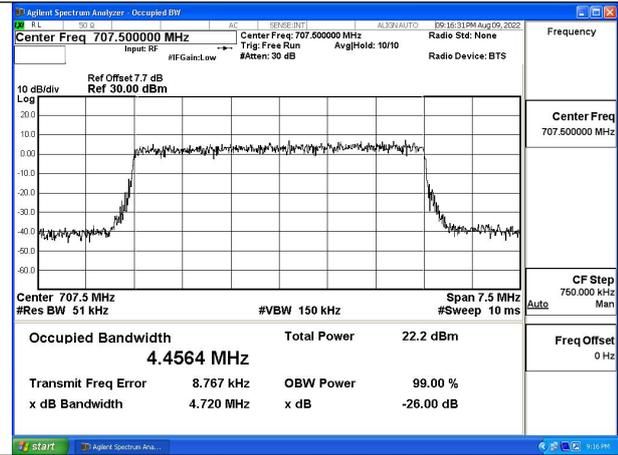


Fig.20

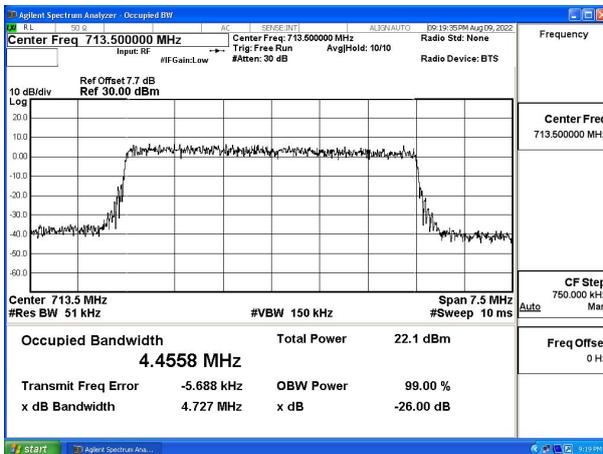


Fig.21

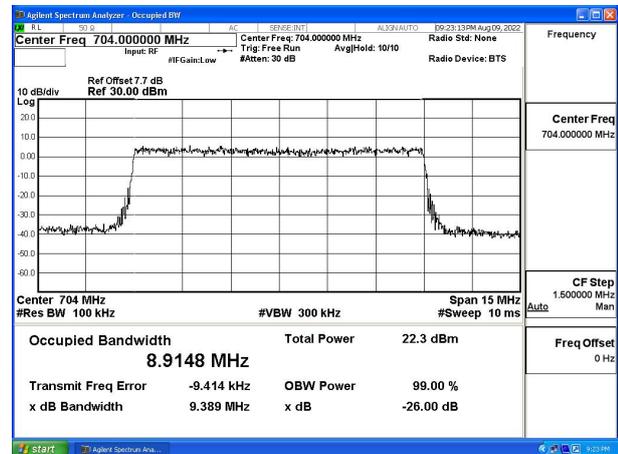


Fig.22

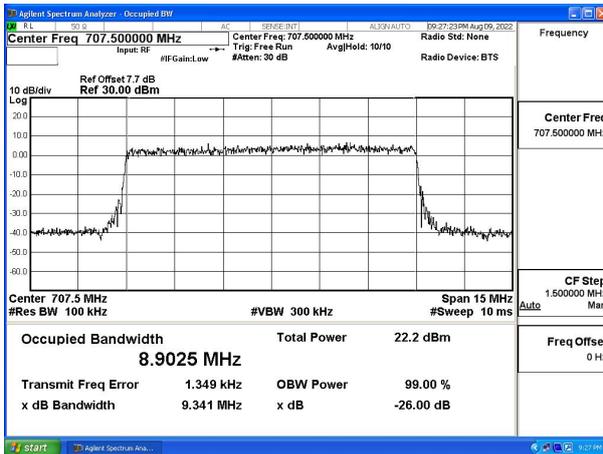


Fig.23

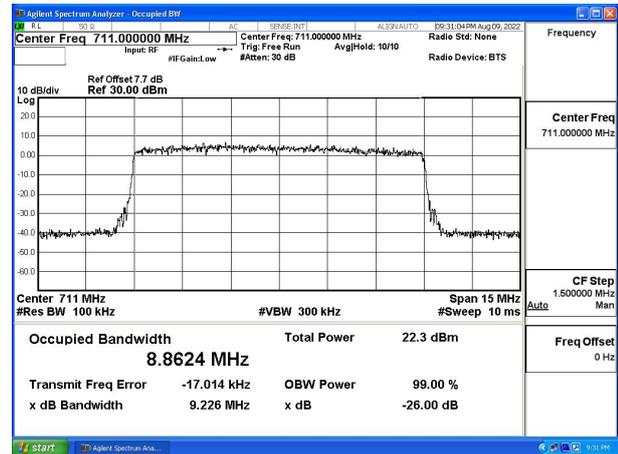


Fig.24

Test Mode: 64QAM

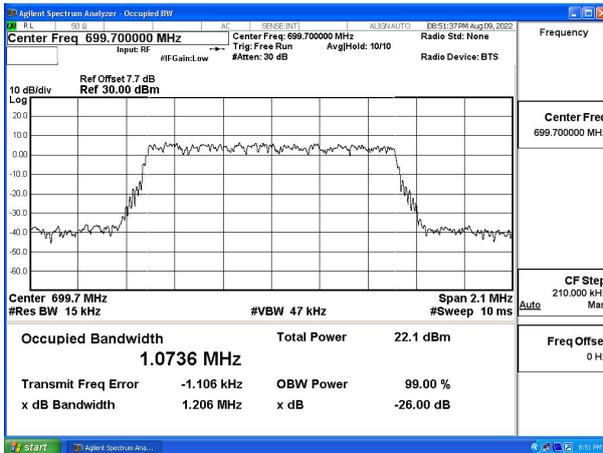


Fig.25

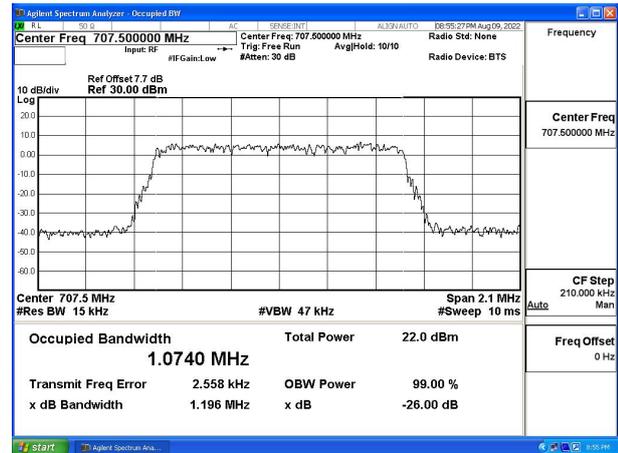


Fig.26

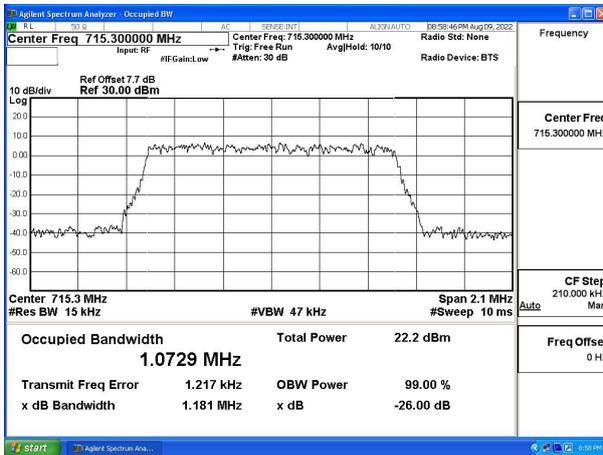


Fig.27

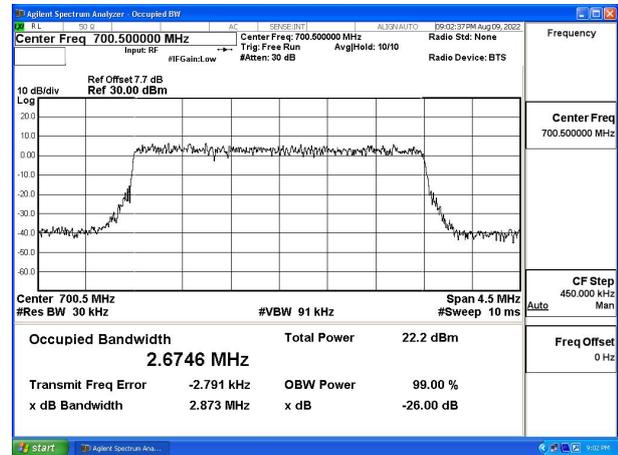


Fig.28

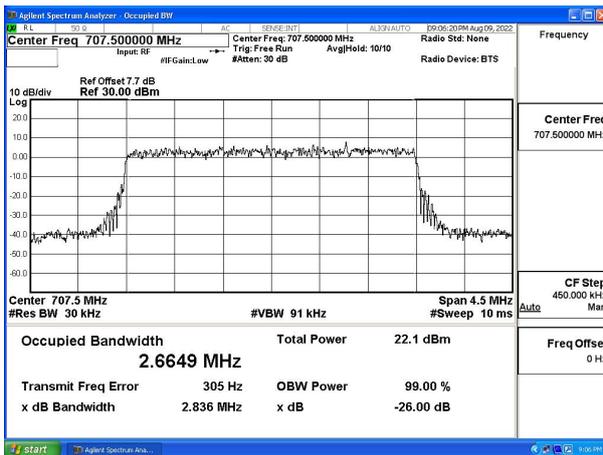


Fig.29

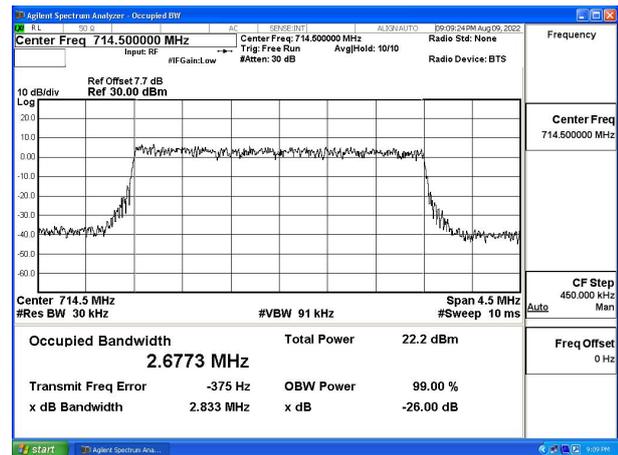


Fig.30

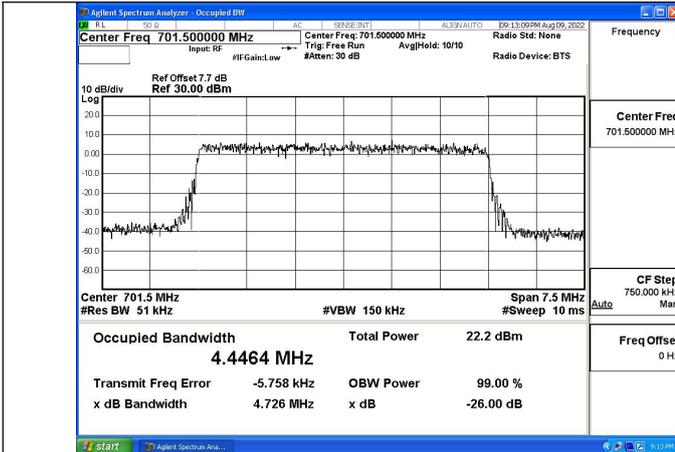


Fig.31

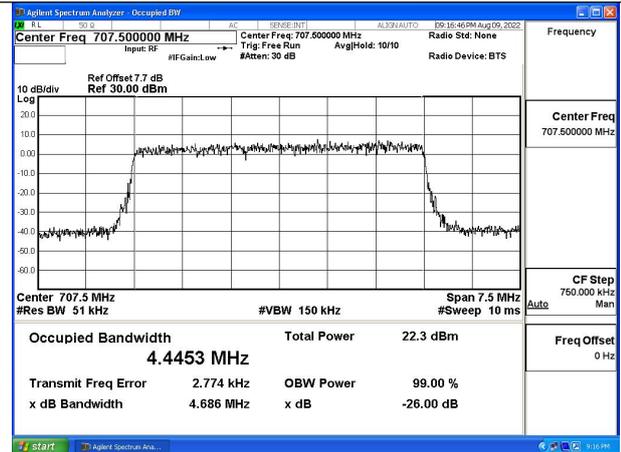


Fig.32

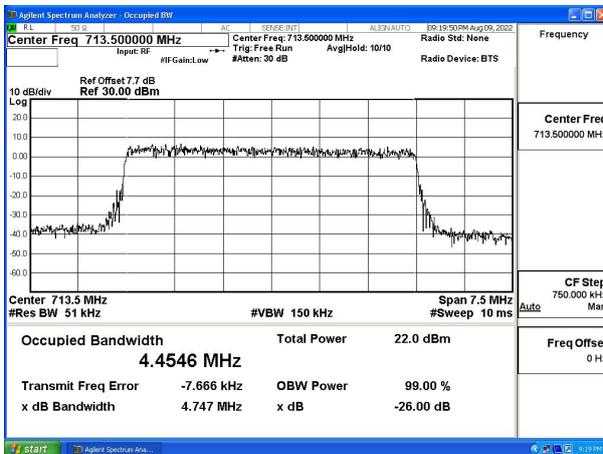


Fig.33

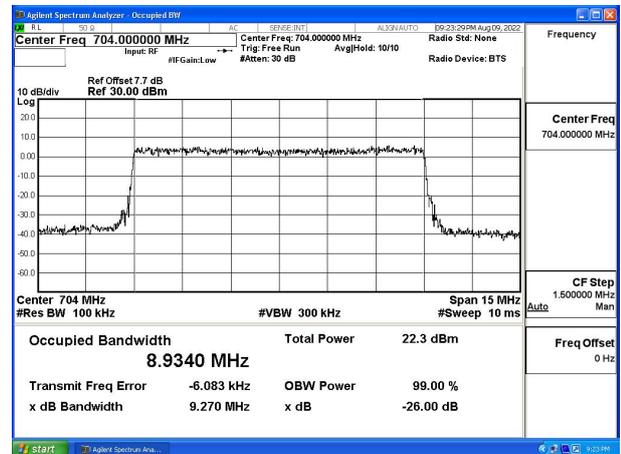


Fig.34

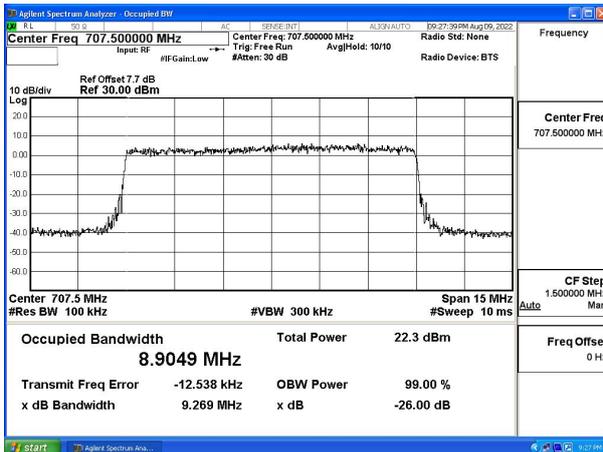


Fig.35

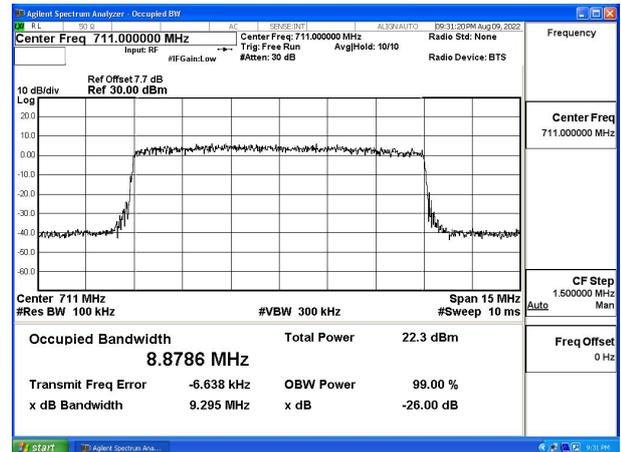


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	QPSK	699.7	23017	1.4	6	0	1.18	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.19	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.19	Fig.3
12	QPSK	700.5	23025	3	15	0	2.84	Fig.4
12	QPSK	707.5	23095	3	15	0	2.81	Fig.5
12	QPSK	714.5	23165	3	15	0	2.85	Fig.6
12	QPSK	701.5	23035	5	25	0	4.74	Fig.7
12	QPSK	707.5	23095	5	25	0	4.77	Fig.8
12	QPSK	713.5	23155	5	25	0	4.72	Fig.9
12	QPSK	704	23060	10	50	0	9.31	Fig.10
12	QPSK	707.5	23095	10	50	0	9.31	Fig.11
12	QPSK	711	23130	10	50	0	9.23	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	16QAM	699.7	23017	1.4	6	0	1.18	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.18	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.18	Fig.15
12	16QAM	700.5	23025	3	15	0	2.84	Fig.16
12	16QAM	707.5	23095	3	15	0	2.90	Fig.17
12	16QAM	714.5	23165	3	15	0	2.84	Fig.18
12	16QAM	701.5	23035	5	25	0	4.75	Fig.19
12	16QAM	707.5	23095	5	25	0	4.72	Fig.20
12	16QAM	713.5	23155	5	25	0	4.73	Fig.21
12	16QAM	704	23060	10	50	0	9.39	Fig.22
12	16QAM	707.5	23095	10	50	0	9.34	Fig.23
12	16QAM	711	23130	10	50	0	9.23	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	64QAM	699.7	23017	1.4	6	0	1.21	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.20	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.18	Fig.27
12	64QAM	700.5	23025	3	15	0	2.87	Fig.28
12	64QAM	707.5	23095	3	15	0	2.84	Fig.29
12	64QAM	714.5	23165	3	15	0	2.83	Fig.30
12	64QAM	701.5	23035	5	25	0	4.73	Fig.31
12	64QAM	707.5	23095	5	25	0	4.69	Fig.32
12	64QAM	713.5	23155	5	25	0	4.75	Fig.33
12	64QAM	704	23060	10	50	0	9.27	Fig.34
12	64QAM	707.5	23095	10	50	0	9.27	Fig.35
12	64QAM	711	23130	10	50	0	9.29	Fig.36

Test Mode: QPSK

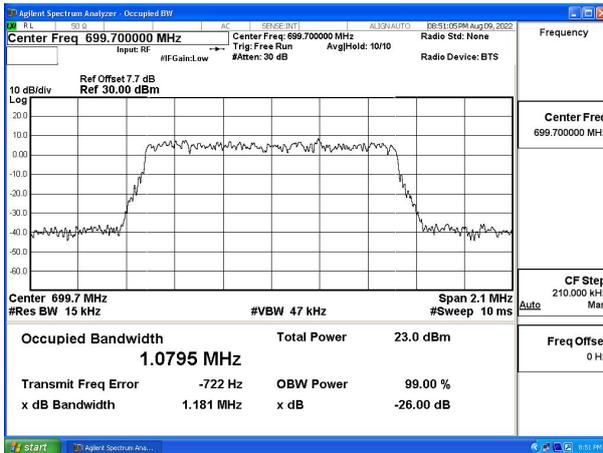


Fig.1

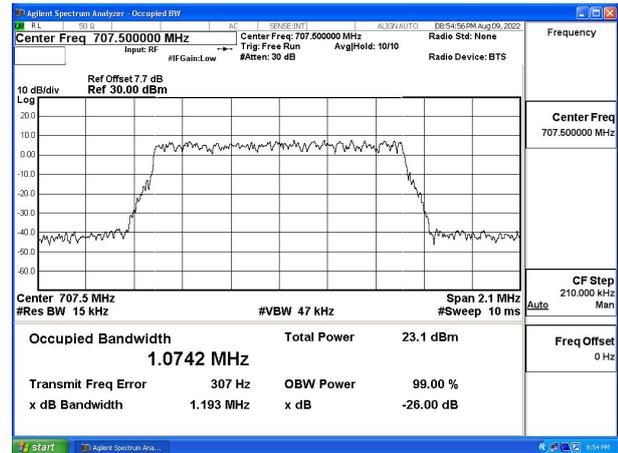


Fig.2

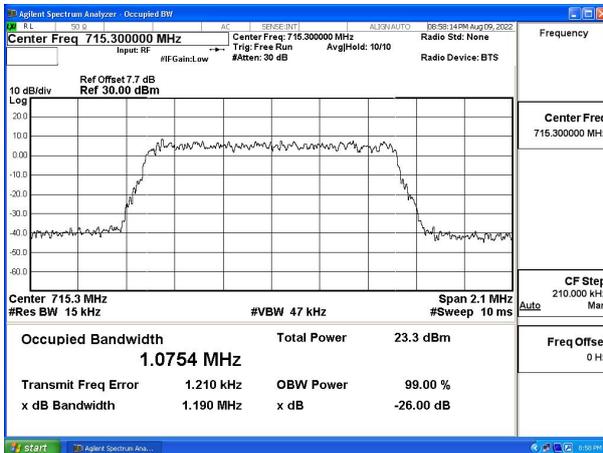


Fig.3

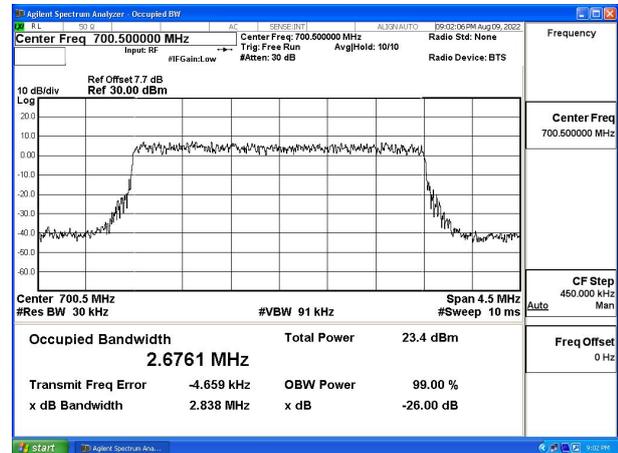


Fig.4

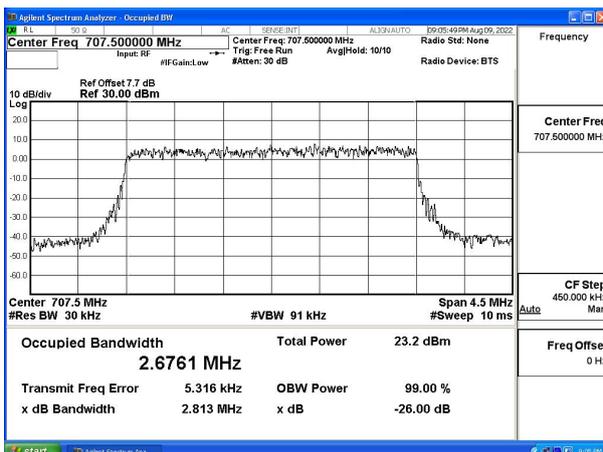


Fig.5

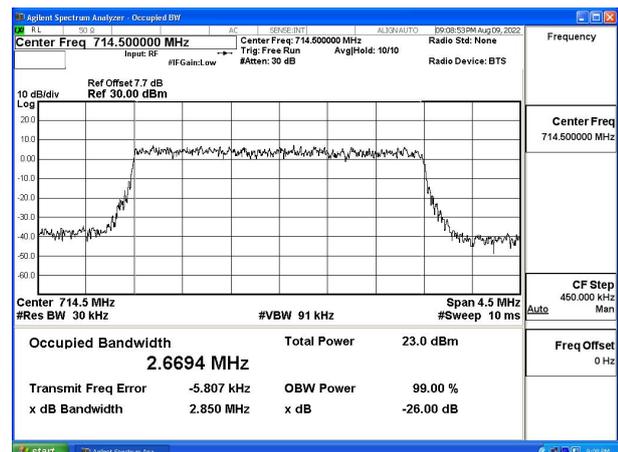


Fig.6