

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	24.04
QPSK	699.7	23017	1.4	1	3	24.12
QPSK	699.7	23017	1.4	1	5	24.08
QPSK	699.7	23017	1.4	3	0	24.10
QPSK	699.7	23017	1.4	3	1	24.23
QPSK	699.7	23017	1.4	3	3	24.04
QPSK	699.7	23017	1.4	6	0	23.09
QPSK	707.5	23095	1.4	1	0	24.11
QPSK	707.5	23095	1.4	1	3	24.22
QPSK	707.5	23095	1.4	1	5	23.92
QPSK	707.5	23095	1.4	3	0	24.05
QPSK	707.5	23095	1.4	3	1	24.18
QPSK	707.5	23095	1.4	3	3	24.08
QPSK	707.5	23095	1.4	6	0	23.04
QPSK	715.3	23173	1.4	1	0	23.76
QPSK	715.3	23173	1.4	1	3	23.82
QPSK	715.3	23173	1.4	1	5	23.73
QPSK	715.3	23173	1.4	3	0	23.83
QPSK	715.3	23173	1.4	3	1	23.96
QPSK	715.3	23173	1.4	3	3	23.87
QPSK	715.3	23173	1.4	6	0	22.88

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	23.36
16QAM	699.7	23017	1.4	1	3	23.45
16QAM	699.7	23017	1.4	1	5	23.23
16QAM	699.7	23017	1.4	3	0	23.17
16QAM	699.7	23017	1.4	3	1	23.23
16QAM	699.7	23017	1.4	3	3	22.96
16QAM	699.7	23017	1.4	6	0	22.18
16QAM	707.5	23095	1.4	1	0	23.46
16QAM	707.5	23095	1.4	1	3	23.35
16QAM	707.5	23095	1.4	1	5	23.45
16QAM	707.5	23095	1.4	3	0	23.32
16QAM	707.5	23095	1.4	3	1	23.31
16QAM	707.5	23095	1.4	3	3	23.13
16QAM	707.5	23095	1.4	6	0	22.16
16QAM	715.3	23173	1.4	1	0	22.54
16QAM	715.3	23173	1.4	1	3	22.85
16QAM	715.3	23173	1.4	1	5	22.93
16QAM	715.3	23173	1.4	3	0	22.73
16QAM	715.3	23173	1.4	3	1	22.90
16QAM	715.3	23173	1.4	3	3	22.69
16QAM	715.3	23173	1.4	6	0	22.02
64QAM	699.7	23017	1.4	1	0	22.44
64QAM	699.7	23017	1.4	1	3	22.09
64QAM	699.7	23017	1.4	1	5	22.25
64QAM	699.7	23017	1.4	3	0	22.18
64QAM	699.7	23017	1.4	3	1	22.37
64QAM	699.7	23017	1.4	3	3	22.24
64QAM	699.7	23017	1.4	6	0	21.09
64QAM	707.5	23095	1.4	1	0	22.05
64QAM	707.5	23095	1.4	1	3	21.99
64QAM	707.5	23095	1.4	1	5	21.96
64QAM	707.5	23095	1.4	3	0	22.41
64QAM	707.5	23095	1.4	3	1	22.07
64QAM	707.5	23095	1.4	3	3	22.35
64QAM	707.5	23095	1.4	6	0	21.09
64QAM	715.3	23173	1.4	1	0	21.87
64QAM	715.3	23173	1.4	1	3	22.18
64QAM	715.3	23173	1.4	1	5	21.77
64QAM	715.3	23173	1.4	3	0	21.87
64QAM	715.3	23173	1.4	3	1	22.05
64QAM	715.3	23173	1.4	3	3	21.93
64QAM	715.3	23173	1.4	6	0	21.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.96
QPSK	700.5	23025	3	1	8	23.90
QPSK	700.5	23025	3	1	14	24.03
QPSK	700.5	23025	3	8	0	23.06
QPSK	700.5	23025	3	8	4	23.15
QPSK	700.5	23025	3	8	7	23.04
QPSK	700.5	23025	3	15	0	23.12
QPSK	707.5	23095	3	1	0	24.16
QPSK	707.5	23095	3	1	8	24.00
QPSK	707.5	23095	3	1	14	24.09
QPSK	707.5	23095	3	8	0	23.06
QPSK	707.5	23095	3	8	4	23.08
QPSK	707.5	23095	3	8	7	23.02
QPSK	707.5	23095	3	15	0	23.05
QPSK	714.5	23165	3	1	0	23.87
QPSK	714.5	23165	3	1	8	23.76
QPSK	714.5	23165	3	1	14	23.91
QPSK	714.5	23165	3	8	0	22.93
QPSK	714.5	23165	3	8	4	22.98
QPSK	714.5	23165	3	8	7	22.91
QPSK	714.5	23165	3	15	0	22.88

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	23.32
16QAM	700.5	23025	3	1	8	23.73
16QAM	700.5	23025	3	1	14	22.96
16QAM	700.5	23025	3	8	0	22.18
16QAM	700.5	23025	3	8	4	22.14
16QAM	700.5	23025	3	8	7	22.09
16QAM	700.5	23025	3	15	0	22.06
16QAM	707.5	23095	3	1	0	23.66
16QAM	707.5	23095	3	1	8	22.87
16QAM	707.5	23095	3	1	14	23.22
16QAM	707.5	23095	3	8	0	22.25
16QAM	707.5	23095	3	8	4	22.09
16QAM	707.5	23095	3	8	7	22.18
16QAM	707.5	23095	3	15	0	22.07
16QAM	714.5	23165	3	1	0	23.17
16QAM	714.5	23165	3	1	8	23.58
16QAM	714.5	23165	3	1	14	23.06
16QAM	714.5	23165	3	8	0	22.02
16QAM	714.5	23165	3	8	4	22.07
16QAM	714.5	23165	3	8	7	22.01
16QAM	714.5	23165	3	15	0	21.82
64QAM	700.5	23025	3	1	0	22.30
64QAM	700.5	23025	3	1	8	22.12
64QAM	700.5	23025	3	1	14	21.97
64QAM	700.5	23025	3	8	0	21.21
64QAM	700.5	23025	3	8	4	21.03
64QAM	700.5	23025	3	8	7	21.04
64QAM	700.5	23025	3	15	0	21.23
64QAM	707.5	23095	3	1	0	22.14
64QAM	707.5	23095	3	1	8	22.45
64QAM	707.5	23095	3	1	14	22.34
64QAM	707.5	23095	3	8	0	21.18
64QAM	707.5	23095	3	8	4	21.13
64QAM	707.5	23095	3	8	7	21.30
64QAM	707.5	23095	3	15	0	21.29
64QAM	714.5	23165	3	1	0	22.06
64QAM	714.5	23165	3	1	8	22.09
64QAM	714.5	23165	3	1	14	22.12
64QAM	714.5	23165	3	8	0	21.11
64QAM	714.5	23165	3	8	4	20.91
64QAM	714.5	23165	3	8	7	21.19
64QAM	714.5	23165	3	15	0	20.98

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.96
QPSK	701.5	23035	5	1	12	24.06
QPSK	701.5	23035	5	1	24	23.85
QPSK	701.5	23035	5	12	0	23.07
QPSK	701.5	23035	5	12	7	23.13
QPSK	701.5	23035	5	12	13	22.89
QPSK	701.5	23035	5	25	0	23.11
QPSK	707.5	23095	5	1	0	24.02
QPSK	707.5	23095	5	1	12	24.14
QPSK	707.5	23095	5	1	24	24.03
QPSK	707.5	23095	5	12	0	23.14
QPSK	707.5	23095	5	12	7	23.04
QPSK	707.5	23095	5	12	13	23.09
QPSK	707.5	23095	5	25	0	23.12
QPSK	713.5	23155	5	1	0	23.84
QPSK	713.5	23155	5	1	12	23.95
QPSK	713.5	23155	5	1	24	23.78
QPSK	713.5	23155	5	12	0	22.86
QPSK	713.5	23155	5	12	7	22.92
QPSK	713.5	23155	5	12	13	22.92
QPSK	713.5	23155	5	25	0	22.90

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	23.10
16QAM	701.5	23035	5	1	12	23.09
16QAM	701.5	23035	5	1	24	23.40
16QAM	701.5	23035	5	12	0	22.19
16QAM	701.5	23035	5	12	7	22.00
16QAM	701.5	23035	5	12	13	21.83
16QAM	701.5	23035	5	25	0	22.05
16QAM	707.5	23095	5	1	0	23.08
16QAM	707.5	23095	5	1	12	23.51
16QAM	707.5	23095	5	1	24	23.16
16QAM	707.5	23095	5	12	0	22.18
16QAM	707.5	23095	5	12	7	22.17
16QAM	707.5	23095	5	12	13	22.09
16QAM	707.5	23095	5	25	0	22.15
16QAM	713.5	23155	5	1	0	22.95
16QAM	713.5	23155	5	1	12	23.72
16QAM	713.5	23155	5	1	24	23.34
16QAM	713.5	23155	5	12	0	21.85
16QAM	713.5	23155	5	12	7	22.01
16QAM	713.5	23155	5	12	13	21.94
16QAM	713.5	23155	5	25	0	21.79
64QAM	701.5	23035	5	1	0	22.01
64QAM	701.5	23035	5	1	12	22.42
64QAM	701.5	23035	5	1	24	22.25
64QAM	701.5	23035	5	12	0	21.28
64QAM	701.5	23035	5	12	7	21.39
64QAM	701.5	23035	5	12	13	21.14
64QAM	701.5	23035	5	25	0	21.19
64QAM	707.5	23095	5	1	0	22.22
64QAM	707.5	23095	5	1	12	22.37
64QAM	707.5	23095	5	1	24	21.66
64QAM	707.5	23095	5	12	0	21.16
64QAM	707.5	23095	5	12	7	21.21
64QAM	707.5	23095	5	12	13	21.27
64QAM	707.5	23095	5	25	0	21.19
64QAM	713.5	23155	5	1	0	22.29
64QAM	713.5	23155	5	1	12	22.05
64QAM	713.5	23155	5	1	24	21.97
64QAM	713.5	23155	5	12	0	21.04
64QAM	713.5	23155	5	12	7	21.10
64QAM	713.5	23155	5	12	13	21.00
64QAM	713.5	23155	5	25	0	20.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	24.10
QPSK	704	23060	10	1	25	24.22
QPSK	704	23060	10	1	49	24.03
QPSK	704	23060	10	25	0	23.30
QPSK	704	23060	10	25	12	23.14
QPSK	704	23060	10	25	25	23.06
QPSK	704	23060	10	50	0	23.29
QPSK	707.5	23095	10	1	0	24.02
QPSK	707.5	23095	10	1	25	24.13
QPSK	707.5	23095	10	1	49	24.07
QPSK	707.5	23095	10	25	0	23.38
QPSK	707.5	23095	10	25	12	23.11
QPSK	707.5	23095	10	25	25	23.28
QPSK	707.5	23095	10	50	0	23.28
QPSK	711	23130	10	1	0	24.06
QPSK	711	23130	10	1	25	24.02
QPSK	711	23130	10	1	49	23.87
QPSK	711	23130	10	25	0	23.05
QPSK	711	23130	10	25	12	23.02
QPSK	711	23130	10	25	25	23.13
QPSK	711	23130	10	50	0	23.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	23.22
16QAM	704	23060	10	1	25	23.22
16QAM	704	23060	10	1	49	23.46
16QAM	704	23060	10	25	0	22.35
16QAM	704	23060	10	25	12	22.13
16QAM	704	23060	10	25	25	21.93
16QAM	704	23060	10	50	0	22.36
16QAM	707.5	23095	10	1	0	22.92
16QAM	707.5	23095	10	1	25	23.46
16QAM	707.5	23095	10	1	49	22.87
16QAM	707.5	23095	10	25	0	22.26
16QAM	707.5	23095	10	25	12	22.24
16QAM	707.5	23095	10	25	25	22.21
16QAM	707.5	23095	10	50	0	22.26
16QAM	711	23130	10	1	0	23.17
16QAM	711	23130	10	1	25	23.36
16QAM	711	23130	10	1	49	23.07
16QAM	711	23130	10	25	0	22.06
16QAM	711	23130	10	25	12	22.04
16QAM	711	23130	10	25	25	22.31
16QAM	711	23130	10	50	0	22.10
64QAM	704	23060	10	1	0	21.98
64QAM	704	23060	10	1	25	22.26
64QAM	704	23060	10	1	49	22.19
64QAM	704	23060	10	25	0	21.34
64QAM	704	23060	10	25	12	21.31
64QAM	704	23060	10	25	25	21.28
64QAM	704	23060	10	50	0	21.29
64QAM	707.5	23095	10	1	0	22.05
64QAM	707.5	23095	10	1	25	22.41
64QAM	707.5	23095	10	1	49	22.23
64QAM	707.5	23095	10	25	0	21.31
64QAM	707.5	23095	10	25	12	21.25
64QAM	707.5	23095	10	25	25	21.27
64QAM	707.5	23095	10	50	0	21.28
64QAM	711	23130	10	1	0	22.26
64QAM	711	23130	10	1	25	22.10
64QAM	711	23130	10	1	49	22.22
64QAM	711	23130	10	25	0	21.15
64QAM	711	23130	10	25	12	21.13
64QAM	711	23130	10	25	25	21.26
64QAM	711	23130	10	50	0	21.29

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	1.070	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.080	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.070	Fig.3
12	QPSK	700.5	23025	3	15	0	2.670	Fig.4
12	QPSK	707.5	23095	3	15	0	2.670	Fig.5
12	QPSK	714.5	23165	3	15	0	2.670	Fig.6
12	QPSK	701.5	23035	5	25	0	4.470	Fig.7
12	QPSK	707.5	23095	5	25	0	4.470	Fig.8
12	QPSK	713.5	23155	5	25	0	4.460	Fig.9
12	QPSK	704	23060	10	50	0	8.930	Fig.10
12	QPSK	707.5	23095	10	50	0	8.950	Fig.11
12	QPSK	711	23130	10	50	0	8.910	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	1.070	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.070	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.070	Fig.15
12	16QAM	700.5	23025	3	15	0	2.660	Fig.16
12	16QAM	707.5	23095	3	15	0	2.680	Fig.17
12	16QAM	714.5	23165	3	15	0	2.670	Fig.18
12	16QAM	701.5	23035	5	25	0	4.450	Fig.19
12	16QAM	707.5	23095	5	25	0	4.470	Fig.20
12	16QAM	713.5	23155	5	25	0	4.450	Fig.21
12	16QAM	704	23060	10	50	0	8.900	Fig.22
12	16QAM	707.5	23095	10	50	0	8.950	Fig.23
12	16QAM	711	23130	10	50	0	8.930	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	1.070	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.070	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.080	Fig.27
12	64QAM	700.5	23025	3	15	0	2.670	Fig.28
12	64QAM	707.5	23095	3	15	0	2.670	Fig.29
12	64QAM	714.5	23165	3	15	0	2.670	Fig.30
12	64QAM	701.5	23035	5	25	0	4.460	Fig.31
12	64QAM	707.5	23095	5	25	0	4.460	Fig.32
12	64QAM	713.5	23155	5	25	0	4.470	Fig.33
12	64QAM	704	23060	10	50	0	8.920	Fig.34
12	64QAM	707.5	23095	10	50	0	8.960	Fig.35
12	64QAM	711	23130	10	50	0	8.930	Fig.36

Test Mode: QPSK

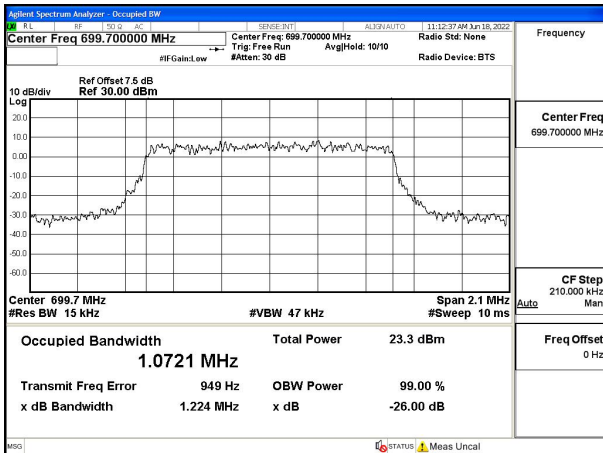


Fig.1

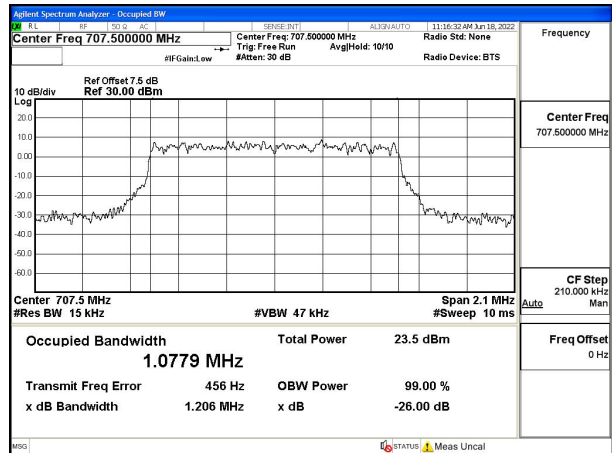


Fig.2

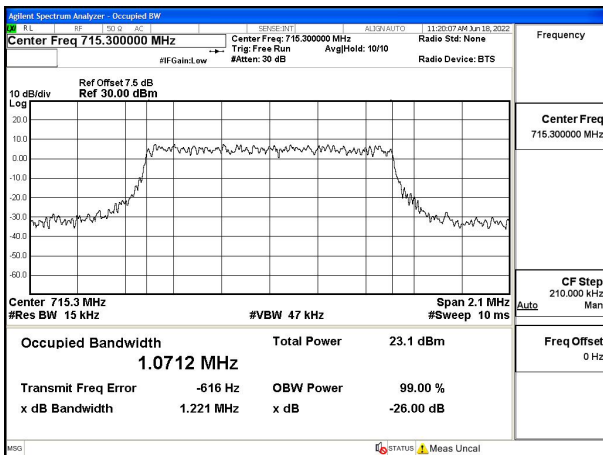


Fig.3

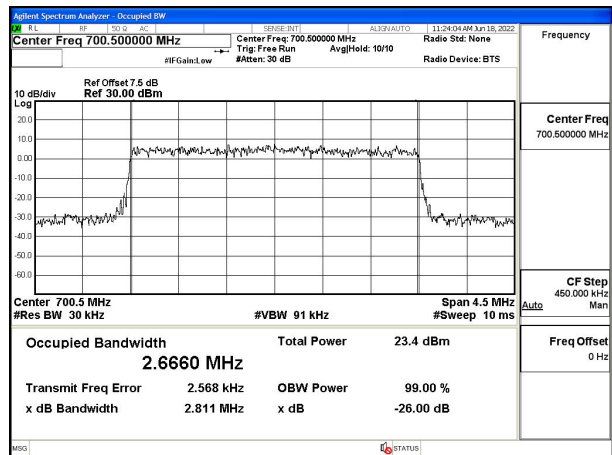


Fig.4

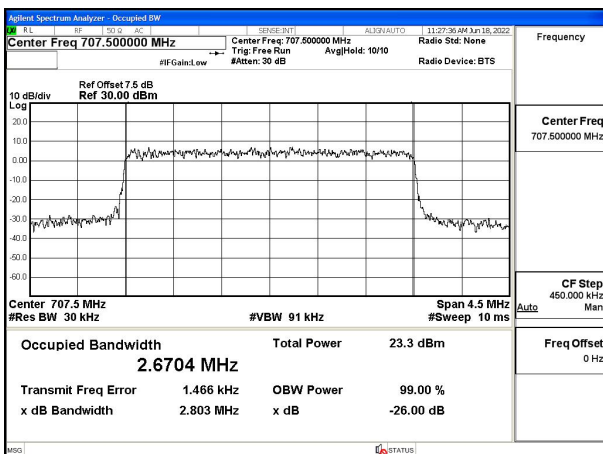


Fig.5

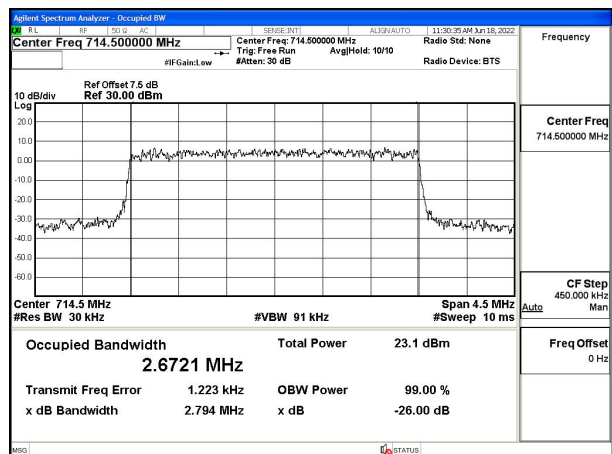


Fig.6

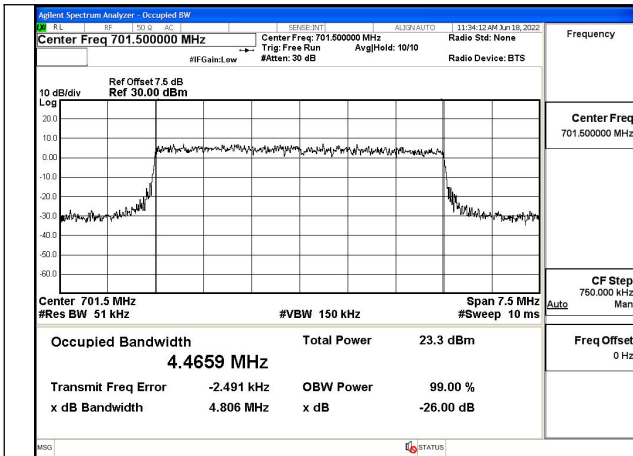


Fig.7

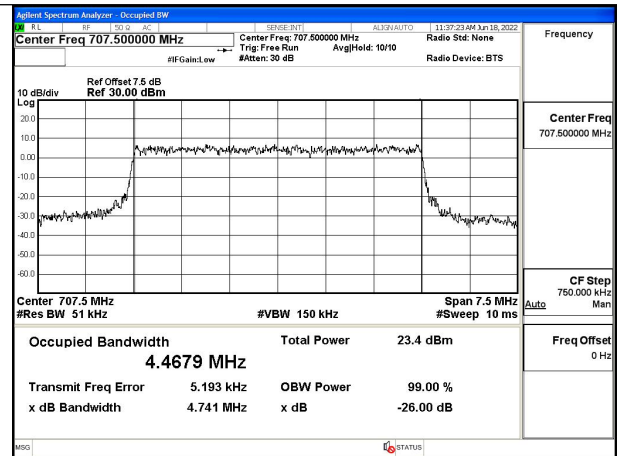


Fig.8

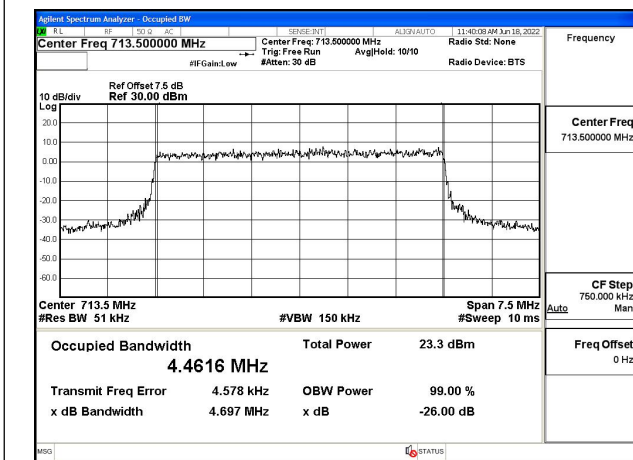


Fig.9

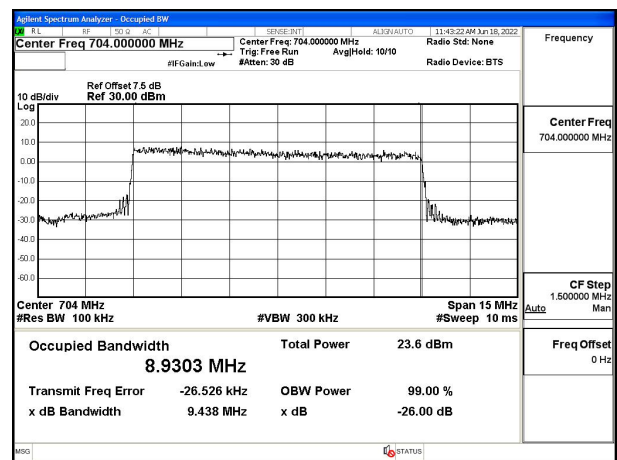


Fig.10

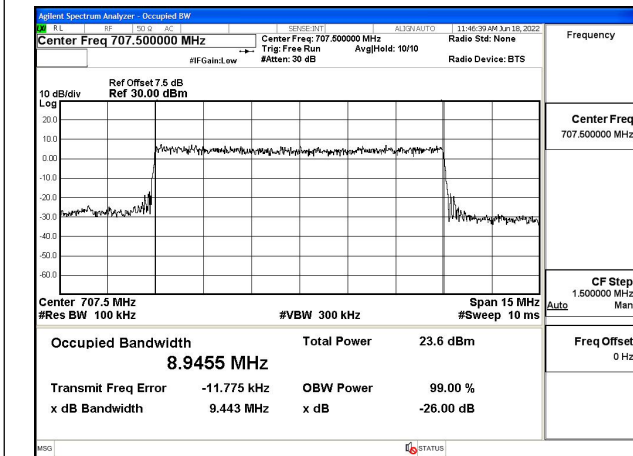


Fig.11

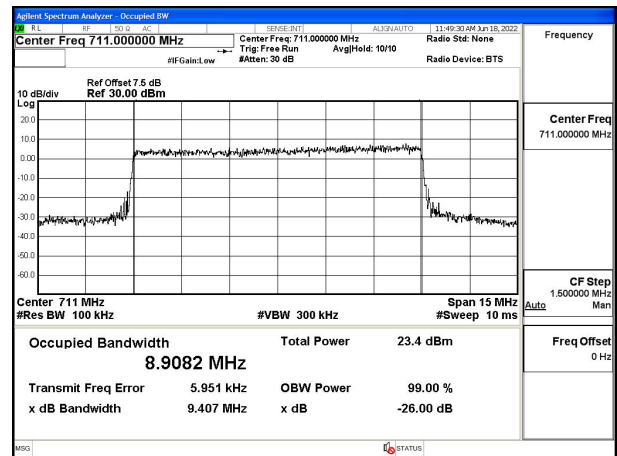


Fig.12

Test Mode: 16QAM

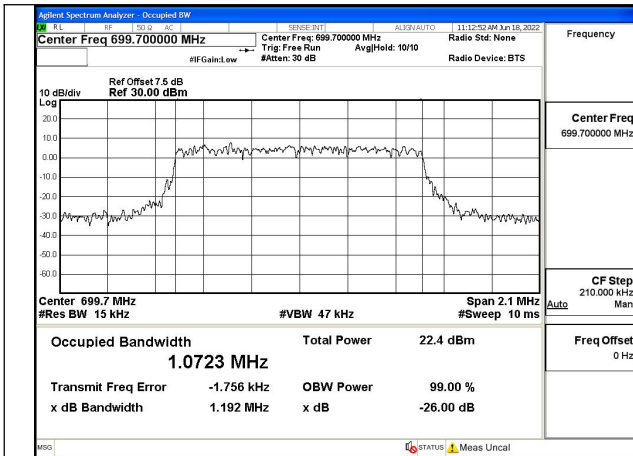


Fig.13

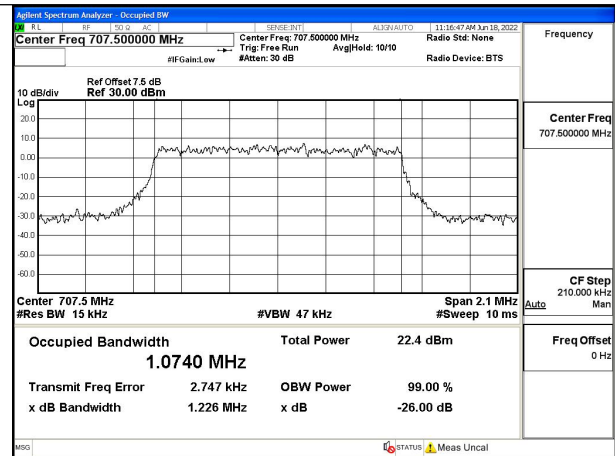


Fig.14

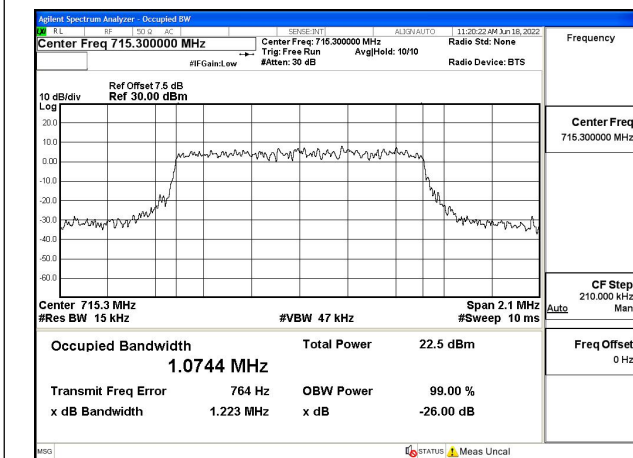


Fig.15

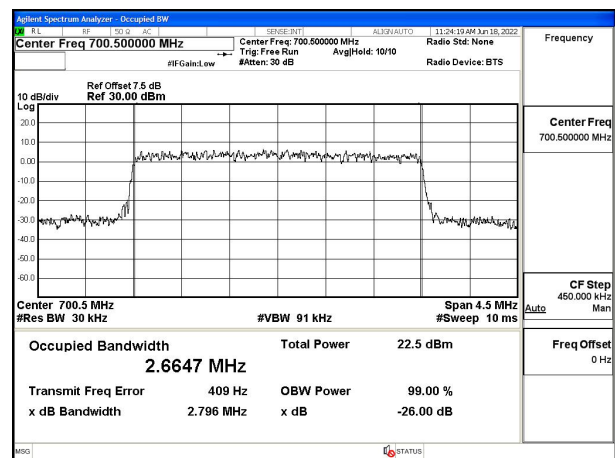


Fig.16

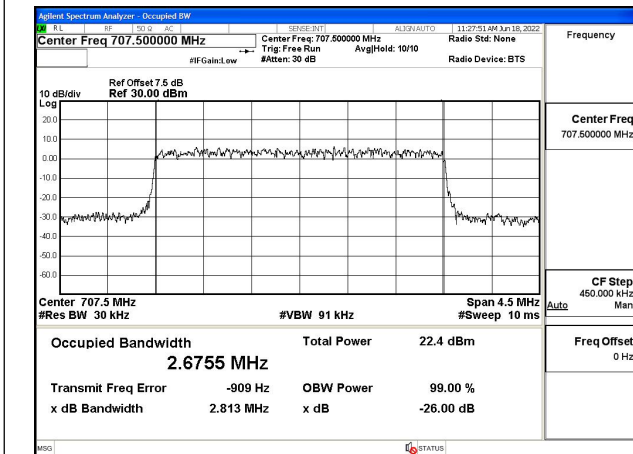


Fig.17

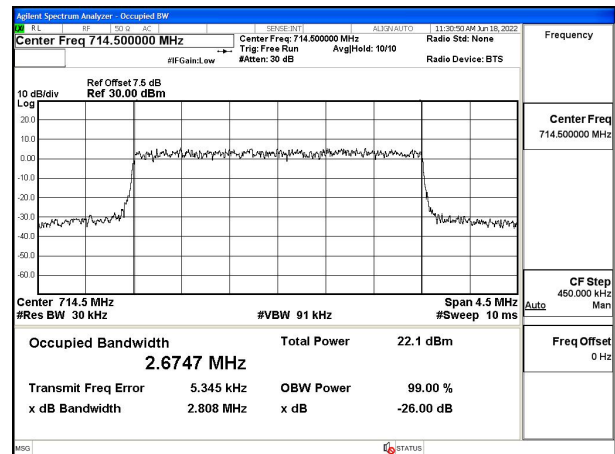


Fig.18

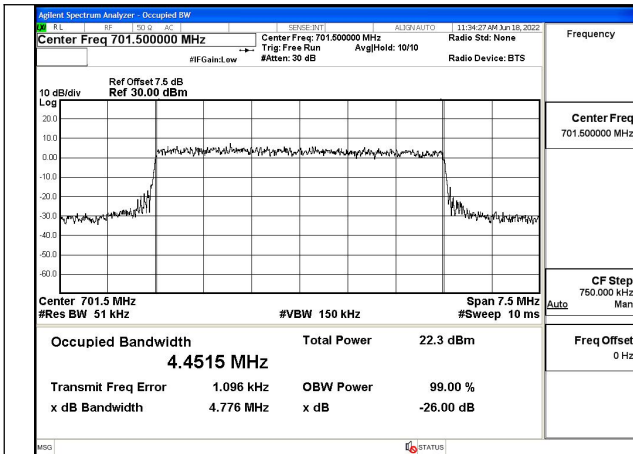


Fig.19

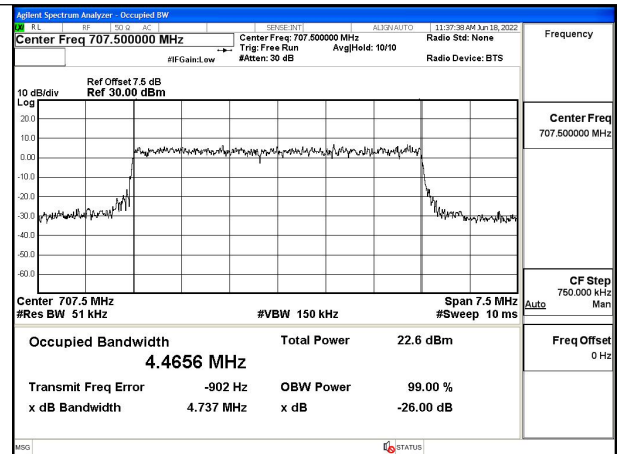


Fig.20

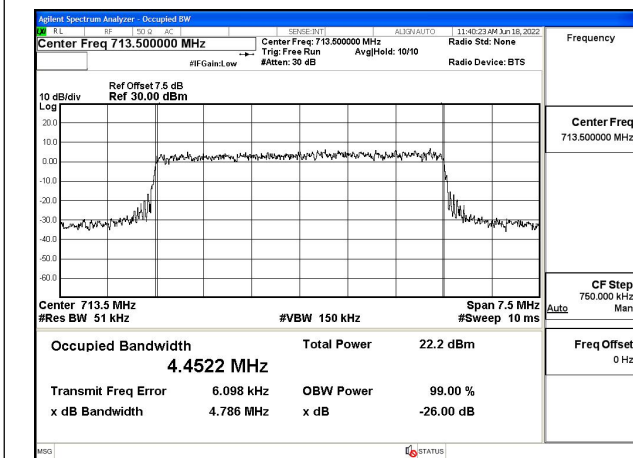


Fig.21

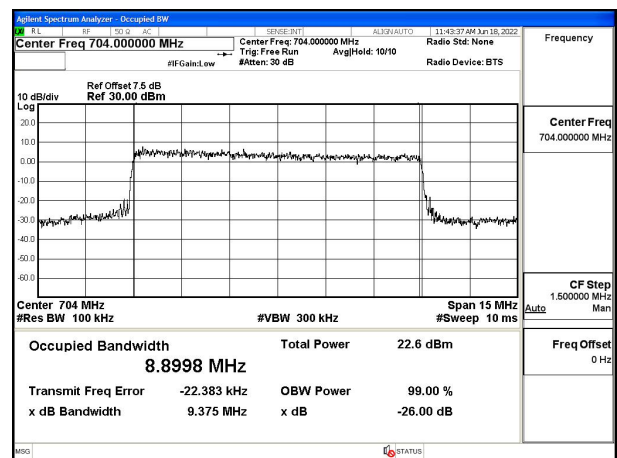


Fig.22

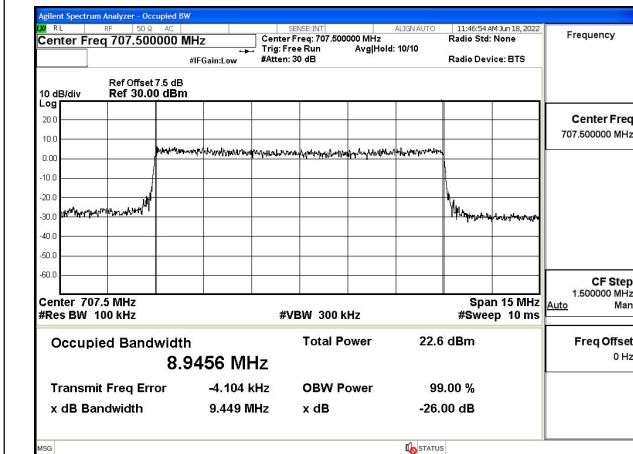


Fig.23

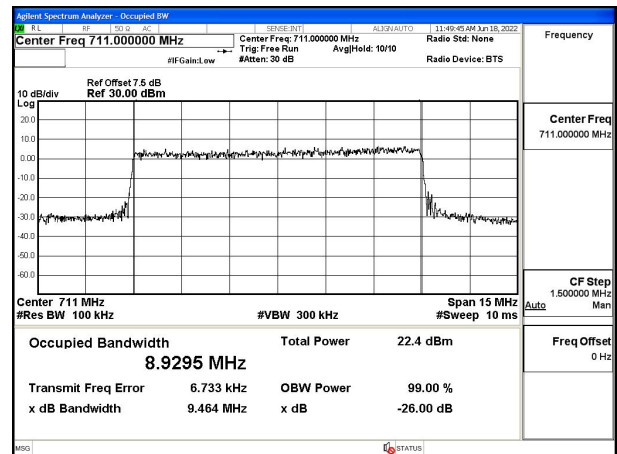


Fig.24

Test Mode: 64QAM

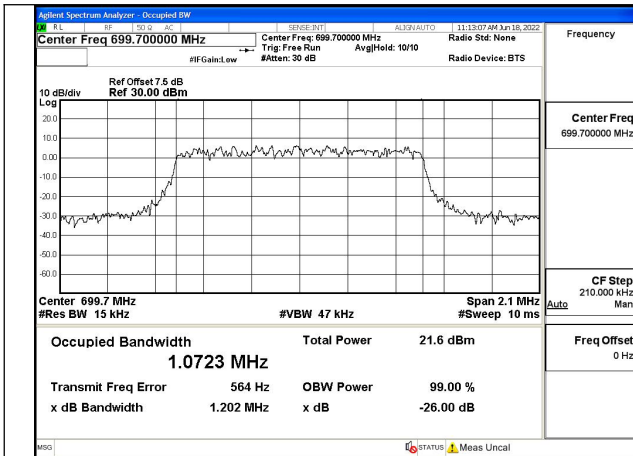


Fig.25

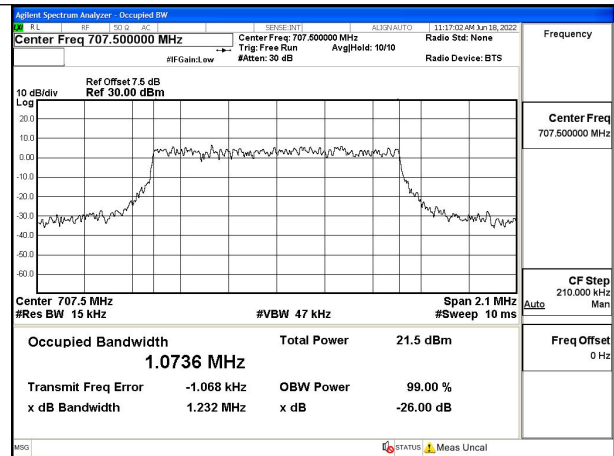


Fig.26

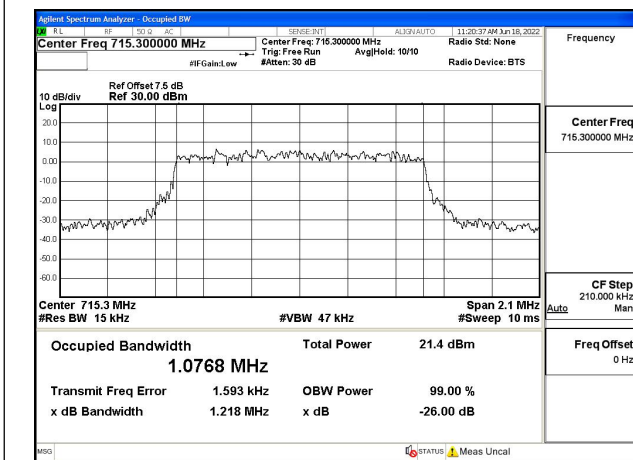


Fig.27

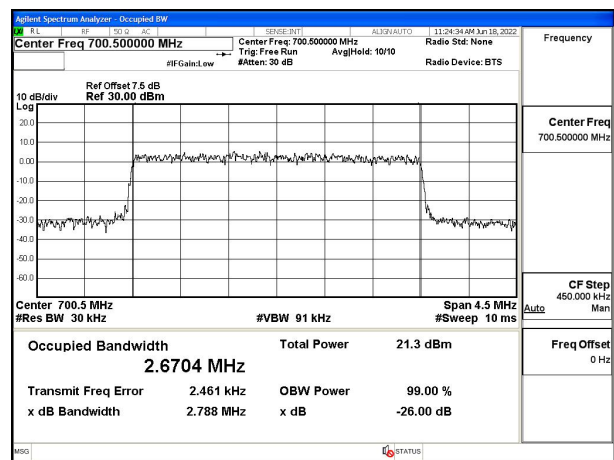


Fig.28

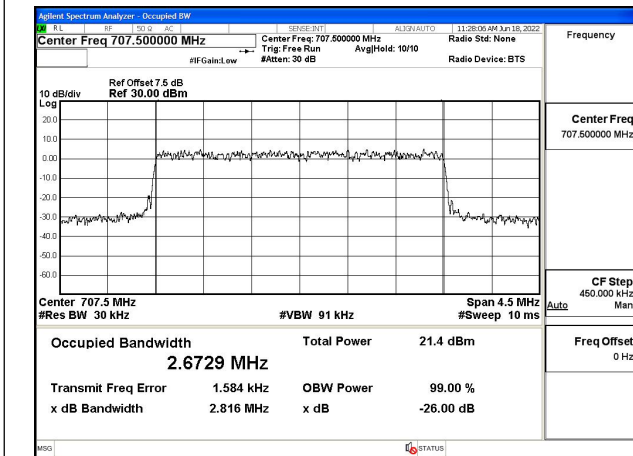


Fig.29

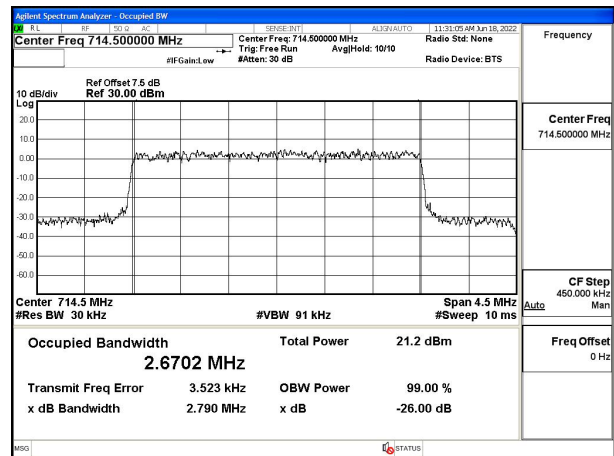


Fig.30

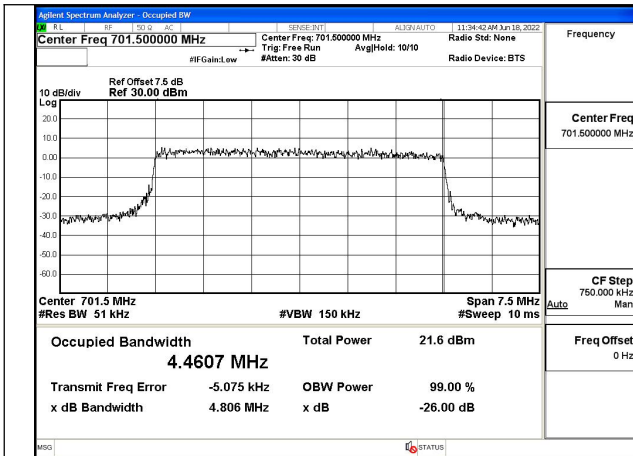


Fig.31

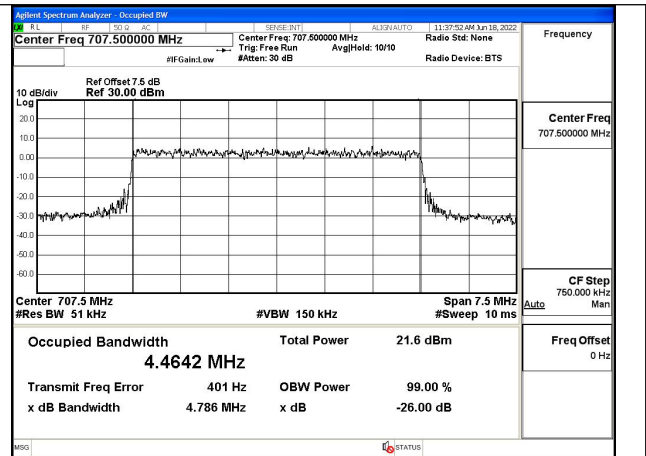


Fig.32

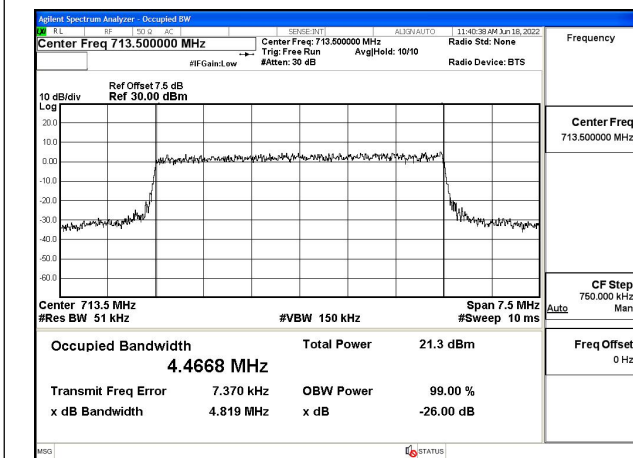


Fig.33

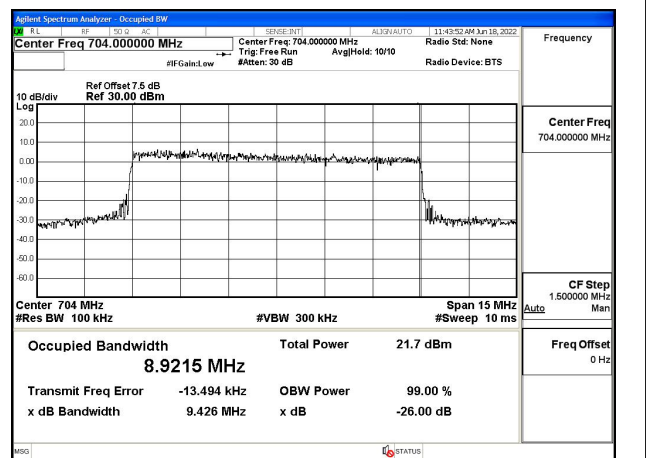


Fig.34

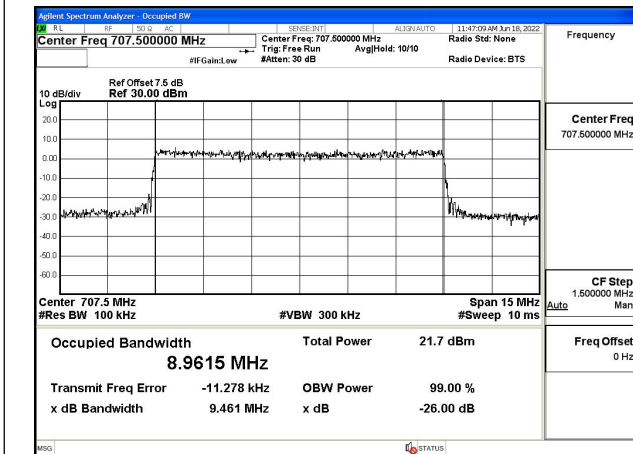


Fig.35

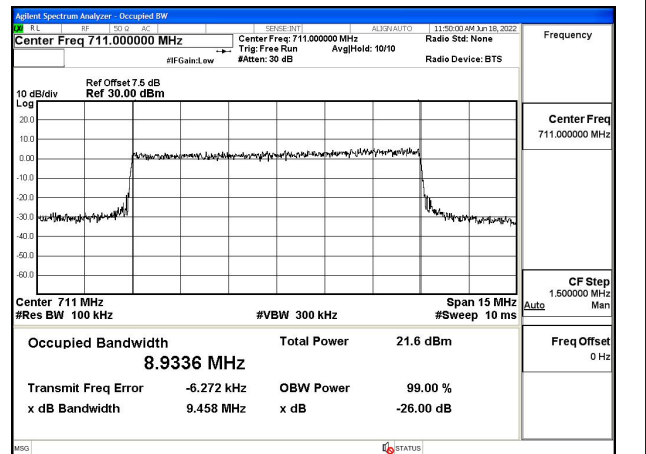


Fig.36

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	1.220	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.210	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.220	Fig.3
12	QPSK	700.5	23025	3	15	0	2.810	Fig.4
12	QPSK	707.5	23095	3	15	0	2.800	Fig.5
12	QPSK	714.5	23165	3	15	0	2.790	Fig.6
12	QPSK	701.5	23035	5	25	0	4.810	Fig.7
12	QPSK	707.5	23095	5	25	0	4.740	Fig.8
12	QPSK	713.5	23155	5	25	0	4.700	Fig.9
12	QPSK	704	23060	10	50	0	9.440	Fig.10
12	QPSK	707.5	23095	10	50	0	9.440	Fig.11
12	QPSK	711	23130	10	50	0	9.410	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	1.190	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.230	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.220	Fig.15
12	16QAM	700.5	23025	3	15	0	2.800	Fig.16
12	16QAM	707.5	23095	3	15	0	2.810	Fig.17
12	16QAM	714.5	23165	3	15	0	2.810	Fig.18
12	16QAM	701.5	23035	5	25	0	4.780	Fig.19
12	16QAM	707.5	23095	5	25	0	4.740	Fig.20
12	16QAM	713.5	23155	5	25	0	4.790	Fig.21
12	16QAM	704	23060	10	50	0	9.380	Fig.22
12	16QAM	707.5	23095	10	50	0	9.450	Fig.23
12	16QAM	711	23130	10	50	0	9.460	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	1.200	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.230	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.220	Fig.27
12	64QAM	700.5	23025	3	15	0	2.790	Fig.28
12	64QAM	707.5	23095	3	15	0	2.820	Fig.29
12	64QAM	714.5	23165	3	15	0	2.790	Fig.30
12	64QAM	701.5	23035	5	25	0	4.810	Fig.31
12	64QAM	707.5	23095	5	25	0	4.790	Fig.32
12	64QAM	713.5	23155	5	25	0	4.820	Fig.33
12	64QAM	704	23060	10	50	0	9.430	Fig.34
12	64QAM	707.5	23095	10	50	0	9.460	Fig.35
12	64QAM	711	23130	10	50	0	9.460	Fig.36

Test Mode: QPSK

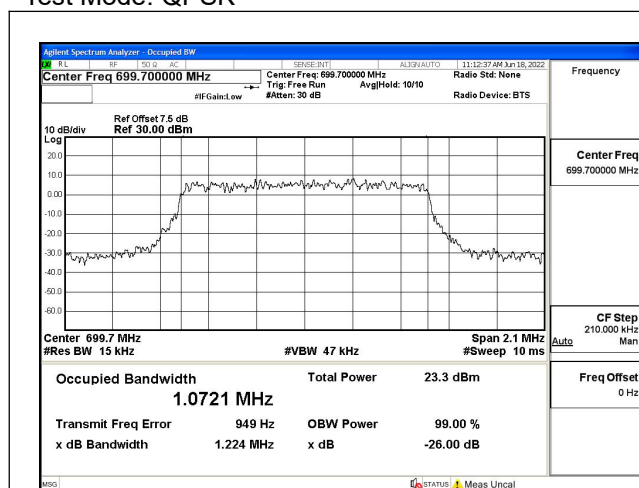


Fig.1

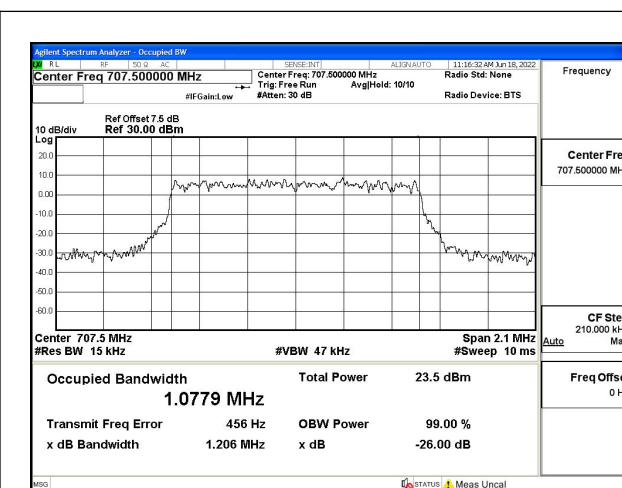


Fig.2

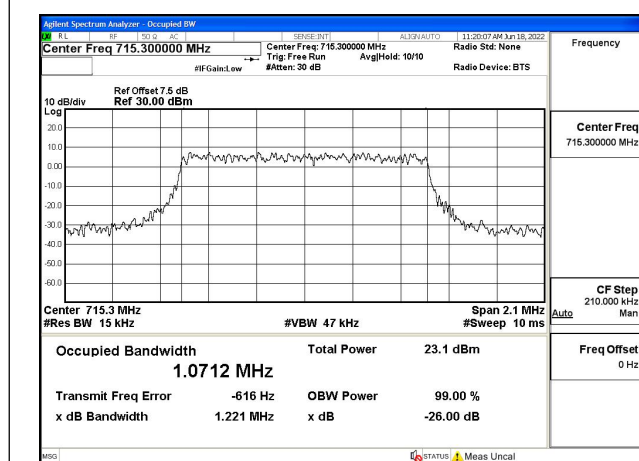


Fig.3

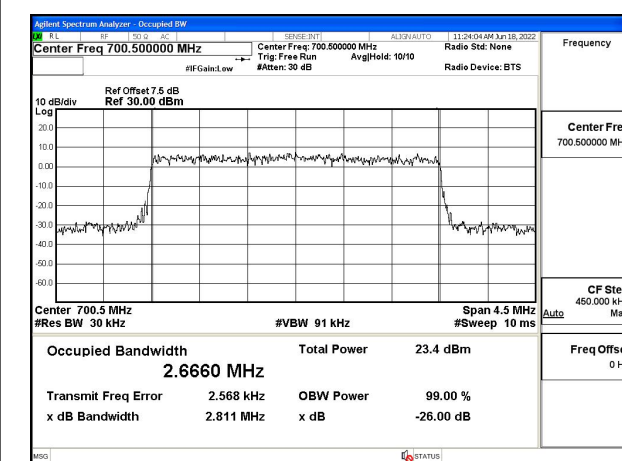


Fig.4

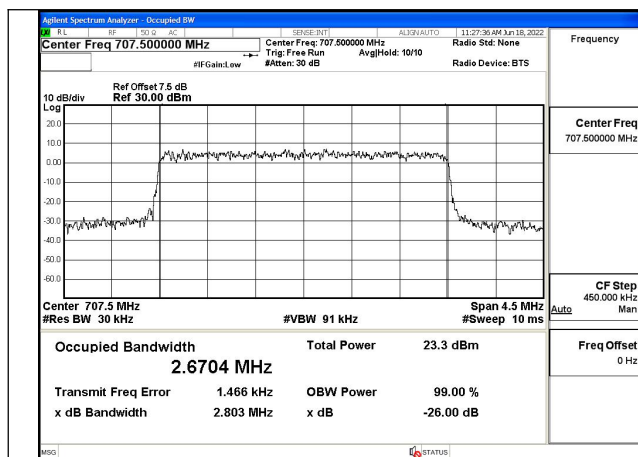


Fig.5

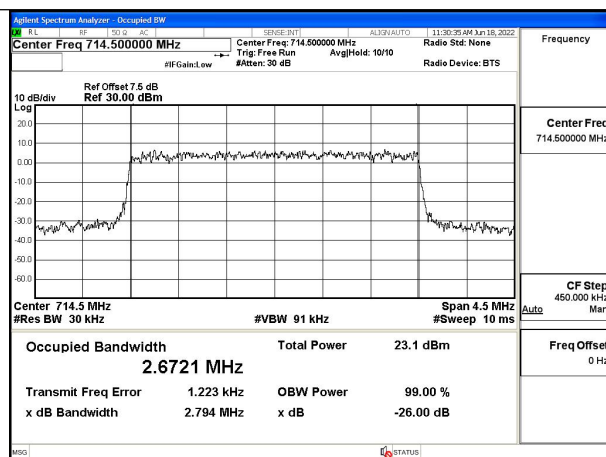


Fig.6

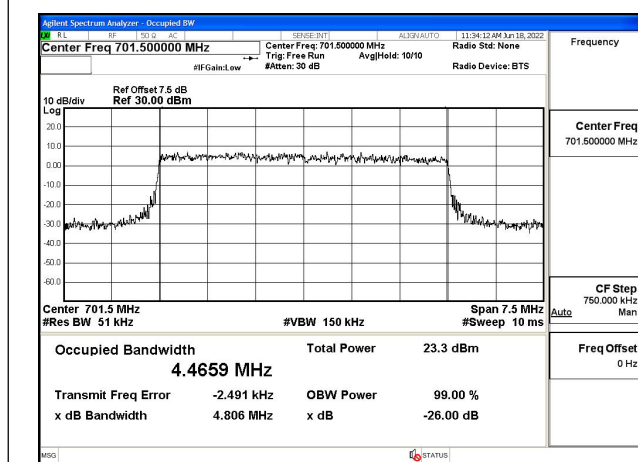


Fig.7

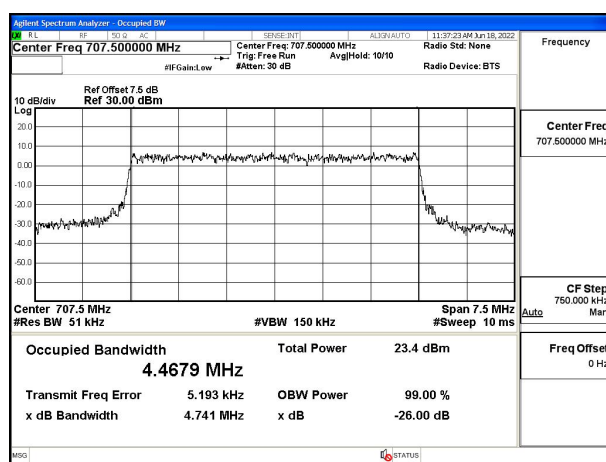


Fig.8

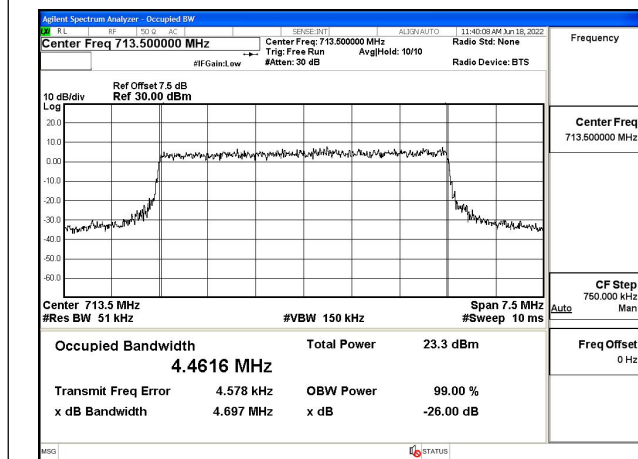


Fig.9

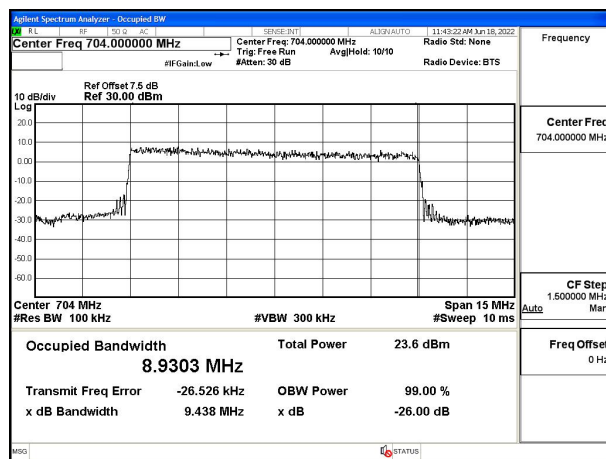


Fig.10