

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	22.87
QPSK	699.7	23017	1.4	1	3	23.02
QPSK	699.7	23017	1.4	1	5	22.96
QPSK	699.7	23017	1.4	3	0	22.85
QPSK	699.7	23017	1.4	3	1	23.06
QPSK	699.7	23017	1.4	3	3	23.02
QPSK	699.7	23017	1.4	6	0	22.09
QPSK	707.5	23095	1.4	1	0	23.09
QPSK	707.5	23095	1.4	1	3	23.24
QPSK	707.5	23095	1.4	1	5	23.03
QPSK	707.5	23095	1.4	3	0	23.14
QPSK	707.5	23095	1.4	3	1	23.05
QPSK	707.5	23095	1.4	3	3	23.05
QPSK	707.5	23095	1.4	6	0	22.03
QPSK	715.3	23173	1.4	1	0	22.88
QPSK	715.3	23173	1.4	1	3	23.11
QPSK	715.3	23173	1.4	1	5	22.87
QPSK	715.3	23173	1.4	3	0	22.98
QPSK	715.3	23173	1.4	3	1	22.93
QPSK	715.3	23173	1.4	3	3	23.04
QPSK	715.3	23173	1.4	6	0	22.08

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.10
16QAM	699.7	23017	1.4	1	3	22.41
16QAM	699.7	23017	1.4	1	5	22.84
16QAM	699.7	23017	1.4	3	0	22.05
16QAM	699.7	23017	1.4	3	1	22.23
16QAM	699.7	23017	1.4	3	3	21.86
16QAM	699.7	23017	1.4	6	0	21.20
16QAM	707.5	23095	1.4	1	0	22.56
16QAM	707.5	23095	1.4	1	3	22.27
16QAM	707.5	23095	1.4	1	5	22.34
16QAM	707.5	23095	1.4	3	0	22.23
16QAM	707.5	23095	1.4	3	1	22.41
16QAM	707.5	23095	1.4	3	3	22.20
16QAM	707.5	23095	1.4	6	0	21.00
16QAM	715.3	23173	1.4	1	0	22.29
16QAM	715.3	23173	1.4	1	3	22.44
16QAM	715.3	23173	1.4	1	5	22.28

16QAM	715.3	23173	1.4	3	0	22.02
16QAM	715.3	23173	1.4	3	1	22.07
16QAM	715.3	23173	1.4	3	3	22.44
16QAM	715.3	23173	1.4	6	0	21.10
64QAM	699.7	23017	1.4	1	0	22.21
64QAM	699.7	23017	1.4	1	3	22.10
64QAM	699.7	23017	1.4	1	5	22.35
64QAM	699.7	23017	1.4	3	0	22.04
64QAM	699.7	23017	1.4	3	1	22.27
64QAM	699.7	23017	1.4	3	3	22.10
64QAM	699.7	23017	1.4	6	0	21.07
64QAM	707.5	23095	1.4	1	0	22.05
64QAM	707.5	23095	1.4	1	3	22.24
64QAM	707.5	23095	1.4	1	5	21.72
64QAM	707.5	23095	1.4	3	0	22.05
64QAM	707.5	23095	1.4	3	1	22.37
64QAM	707.5	23095	1.4	3	3	22.07
64QAM	707.5	23095	1.4	6	0	21.06
64QAM	715.3	23173	1.4	1	0	22.28
64QAM	715.3	23173	1.4	1	3	22.05
64QAM	715.3	23173	1.4	1	5	22.34
64QAM	715.3	23173	1.4	3	0	22.10
64QAM	715.3	23173	1.4	3	1	21.97
64QAM	715.3	23173	1.4	3	3	21.89
64QAM	715.3	23173	1.4	6	0	20.93

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	22.87
QPSK	700.5	23025	3	1	8	23.00
QPSK	700.5	23025	3	1	14	23.08
QPSK	700.5	23025	3	8	0	22.05
QPSK	700.5	23025	3	8	4	22.10
QPSK	700.5	23025	3	8	7	22.08
QPSK	700.5	23025	3	15	0	22.06
QPSK	707.5	23095	3	1	0	22.81
QPSK	707.5	23095	3	1	8	23.03
QPSK	707.5	23095	3	1	14	22.91
QPSK	707.5	23095	3	8	0	21.95
QPSK	707.5	23095	3	8	4	22.06
QPSK	707.5	23095	3	8	7	22.05
QPSK	707.5	23095	3	15	0	21.97
QPSK	714.5	23165	3	1	0	23.07
QPSK	714.5	23165	3	1	8	23.02
QPSK	714.5	23165	3	1	14	22.84
QPSK	714.5	23165	3	8	0	21.88

QPSK	714.5	23165	3	8	4	21.98
QPSK	714.5	23165	3	8	7	21.94
QPSK	714.5	23165	3	15	0	21.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	21.98
16QAM	700.5	23025	3	1	8	22.31
16QAM	700.5	23025	3	1	14	22.37
16QAM	700.5	23025	3	8	0	21.12
16QAM	700.5	23025	3	8	4	21.08
16QAM	700.5	23025	3	8	7	21.23
16QAM	700.5	23025	3	15	0	21.18
16QAM	707.5	23095	3	1	0	22.37
16QAM	707.5	23095	3	1	8	22.71
16QAM	707.5	23095	3	1	14	22.32
16QAM	707.5	23095	3	8	0	21.16
16QAM	707.5	23095	3	8	4	21.31
16QAM	707.5	23095	3	8	7	21.13
16QAM	707.5	23095	3	15	0	21.08
16QAM	714.5	23165	3	1	0	21.87
16QAM	714.5	23165	3	1	8	22.28
16QAM	714.5	23165	3	1	14	22.15
16QAM	714.5	23165	3	8	0	21.00
16QAM	714.5	23165	3	8	4	21.11
16QAM	714.5	23165	3	8	7	21.15
16QAM	714.5	23165	3	15	0	20.98
64QAM	700.5	23025	3	1	0	22.50
64QAM	700.5	23025	3	1	8	21.96
64QAM	700.5	23025	3	1	14	22.09
64QAM	700.5	23025	3	8	0	21.15
64QAM	700.5	23025	3	8	4	21.00
64QAM	700.5	23025	3	8	7	20.93
64QAM	700.5	23025	3	15	0	21.02
64QAM	707.5	23095	3	1	0	21.89
64QAM	707.5	23095	3	1	8	22.23
64QAM	707.5	23095	3	1	14	22.19
64QAM	707.5	23095	3	8	0	21.10
64QAM	707.5	23095	3	8	4	21.19
64QAM	707.5	23095	3	8	7	21.17
64QAM	707.5	23095	3	15	0	21.06
64QAM	714.5	23165	3	1	0	21.94
64QAM	714.5	23165	3	1	8	22.48
64QAM	714.5	23165	3	1	14	22.16
64QAM	714.5	23165	3	8	0	20.85
64QAM	714.5	23165	3	8	4	20.99

64QAM	714.5	23165	3	8	7	20.99
64QAM	714.5	23165	3	15	0	20.85

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.34
QPSK	701.5	23035	5	1	12	22.86
QPSK	701.5	23035	5	1	24	22.95
QPSK	701.5	23035	5	12	0	22.06
QPSK	701.5	23035	5	12	7	22.15
QPSK	701.5	23035	5	12	13	22.11
QPSK	701.5	23035	5	25	0	22.02
QPSK	707.5	23095	5	1	0	23.06
QPSK	707.5	23095	5	1	12	23.11
QPSK	707.5	23095	5	1	24	22.92
QPSK	707.5	23095	5	12	0	22.04
QPSK	707.5	23095	5	12	7	21.98
QPSK	707.5	23095	5	12	13	22.03
QPSK	707.5	23095	5	25	0	22.02
QPSK	713.5	23155	5	1	0	23.02
QPSK	713.5	23155	5	1	12	23.02
QPSK	713.5	23155	5	1	24	22.86
QPSK	713.5	23155	5	12	0	21.97
QPSK	713.5	23155	5	12	7	22.04
QPSK	713.5	23155	5	12	13	21.94
QPSK	713.5	23155	5	25	0	21.85

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.21
16QAM	701.5	23035	5	1	12	22.28
16QAM	701.5	23035	5	1	24	22.28
16QAM	701.5	23035	5	12	0	20.99
16QAM	701.5	23035	5	12	7	20.97
16QAM	701.5	23035	5	12	13	21.06
16QAM	701.5	23035	5	25	0	21.03
16QAM	707.5	23095	5	1	0	22.03
16QAM	707.5	23095	5	1	12	22.58
16QAM	707.5	23095	5	1	24	22.08
16QAM	707.5	23095	5	12	0	20.96
16QAM	707.5	23095	5	12	7	21.09
16QAM	707.5	23095	5	12	13	21.11
16QAM	707.5	23095	5	25	0	21.01
16QAM	713.5	23155	5	1	0	22.09
16QAM	713.5	23155	5	1	12	22.28
16QAM	713.5	23155	5	1	24	22.19
16QAM	713.5	23155	5	12	0	20.93
16QAM	713.5	23155	5	12	7	21.16
16QAM	713.5	23155	5	12	13	20.99
16QAM	713.5	23155	5	25	0	20.98
64QAM	701.5	23035	5	1	0	22.05
64QAM	701.5	23035	5	1	12	21.81
64QAM	701.5	23035	5	1	24	21.95
64QAM	701.5	23035	5	12	0	21.01
64QAM	701.5	23035	5	12	7	21.14
64QAM	701.5	23035	5	12	13	21.01
64QAM	701.5	23035	5	25	0	21.13
64QAM	707.5	23095	5	1	0	22.15
64QAM	707.5	23095	5	1	12	22.21
64QAM	707.5	23095	5	1	24	22.00
64QAM	707.5	23095	5	12	0	21.07
64QAM	707.5	23095	5	12	7	20.91
64QAM	707.5	23095	5	12	13	21.12
64QAM	707.5	23095	5	25	0	21.04
64QAM	713.5	23155	5	1	0	22.09
64QAM	713.5	23155	5	1	12	22.54
64QAM	713.5	23155	5	1	24	21.86
64QAM	713.5	23155	5	12	0	20.95
64QAM	713.5	23155	5	12	7	20.98
64QAM	713.5	23155	5	12	13	20.93
64QAM	713.5	23155	5	25	0	20.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.24
QPSK	704	23060	10	1	25	23.09
QPSK	704	23060	10	1	49	22.85
QPSK	704	23060	10	25	0	22.04
QPSK	704	23060	10	25	12	22.16
QPSK	704	23060	10	25	25	22.17
QPSK	704	23060	10	50	0	22.10
QPSK	707.5	23095	10	1	0	23.00
QPSK	707.5	23095	10	1	25	22.96
QPSK	707.5	23095	10	1	49	22.85
QPSK	707.5	23095	10	25	0	22.07
QPSK	707.5	23095	10	25	12	22.03
QPSK	707.5	23095	10	25	25	22.13
QPSK	707.5	23095	10	50	0	21.99
QPSK	711	23130	10	1	0	23.03
QPSK	711	23130	10	1	25	23.01
QPSK	711	23130	10	1	49	22.89
QPSK	711	23130	10	25	0	22.07
QPSK	711	23130	10	25	12	22.02
QPSK	711	23130	10	25	25	21.97
QPSK	711	23130	10	50	0	21.97

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	22.25
16QAM	704	23060	10	1	25	22.54
16QAM	704	23060	10	1	49	22.50
16QAM	704	23060	10	25	0	21.10
16QAM	704	23060	10	25	12	21.14
16QAM	704	23060	10	25	25	21.06
16QAM	704	23060	10	50	0	21.11
16QAM	707.5	23095	10	1	0	22.00
16QAM	707.5	23095	10	1	25	22.18
16QAM	707.5	23095	10	1	49	22.11
16QAM	707.5	23095	10	25	0	21.11
16QAM	707.5	23095	10	25	12	21.00
16QAM	707.5	23095	10	25	25	21.05
16QAM	707.5	23095	10	50	0	21.01
16QAM	711	23130	10	1	0	22.43
16QAM	711	23130	10	1	25	22.14
16QAM	711	23130	10	1	49	21.99
16QAM	711	23130	10	25	0	21.05
16QAM	711	23130	10	25	12	20.92
16QAM	711	23130	10	25	25	20.99
16QAM	711	23130	10	50	0	20.91
64QAM	704	23060	10	1	0	21.96
64QAM	704	23060	10	1	25	22.25
64QAM	704	23060	10	1	49	21.94
64QAM	704	23060	10	25	0	20.99
64QAM	704	23060	10	25	12	21.13
64QAM	704	23060	10	25	25	21.14
64QAM	704	23060	10	50	0	21.07
64QAM	707.5	23095	10	1	0	22.34
64QAM	707.5	23095	10	1	25	22.11
64QAM	707.5	23095	10	1	49	22.57
64QAM	707.5	23095	10	25	0	21.03
64QAM	707.5	23095	10	25	12	20.97
64QAM	707.5	23095	10	25	25	21.07
64QAM	707.5	23095	10	50	0	21.04
64QAM	711	23130	10	1	0	22.23
64QAM	711	23130	10	1	25	22.35
64QAM	711	23130	10	1	49	21.76
64QAM	711	23130	10	25	0	21.10
64QAM	711	23130	10	25	12	21.02
64QAM	711	23130	10	25	25	20.95
64QAM	711	23130	10	50	0	20.97

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	1.076	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.071	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.077	Fig.3
12	QPSK	700.5	23025	3	15	0	2.680	Fig.4
12	QPSK	707.5	23095	3	15	0	2.684	Fig.5
12	QPSK	714.5	23165	3	15	0	2.670	Fig.6
12	QPSK	701.5	23035	5	25	0	4.454	Fig.7
12	QPSK	707.5	23095	5	25	0	4.447	Fig.8
12	QPSK	713.5	23155	5	25	0	4.460	Fig.9
12	QPSK	704	23060	10	50	0	8.904	Fig.10
12	QPSK	707.5	23095	10	50	0	8.925	Fig.11
12	QPSK	711	23130	10	50	0	8.883	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	1.077	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.076	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.077	Fig.15
12	16QAM	700.5	23025	3	15	0	2.674	Fig.16
12	16QAM	707.5	23095	3	15	0	2.687	Fig.17
12	16QAM	714.5	23165	3	15	0	2.686	Fig.18
12	16QAM	701.5	23035	5	25	0	4.461	Fig.19
12	16QAM	707.5	23095	5	25	0	4.461	Fig.20
12	16QAM	713.5	23155	5	25	0	4.465	Fig.21
12	16QAM	704	23060	10	50	0	8.927	Fig.22
12	16QAM	707.5	23095	10	50	0	8.914	Fig.23
12	16QAM	711	23130	10	50	0	8.940	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	1.076	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.074	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.076	Fig.27
12	64QAM	700.5	23025	3	15	0	2.681	Fig.28
12	64QAM	707.5	23095	3	15	0	2.685	Fig.29
12	64QAM	714.5	23165	3	15	0	2.672	Fig.30
12	64QAM	701.5	23035	5	25	0	4.470	Fig.31
12	64QAM	707.5	23095	5	25	0	4.468	Fig.32
12	64QAM	713.5	23155	5	25	0	4.472	Fig.33
12	64QAM	704	23060	10	50	0	8.928	Fig.34
12	64QAM	707.5	23095	10	50	0	8.916	Fig.35
12	64QAM	711	23130	10	50	0	8.947	Fig.36

Test Mode: QPSK

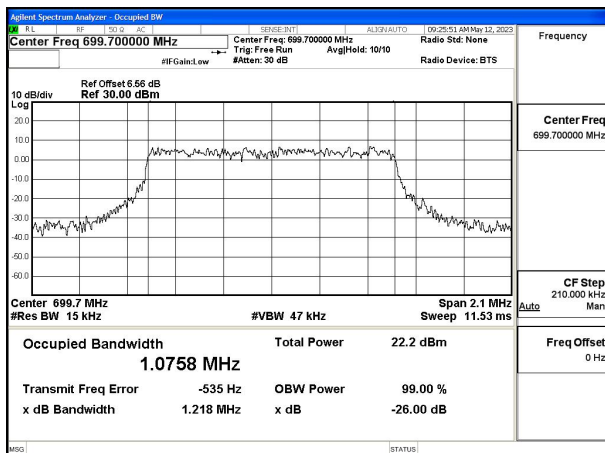


Fig.1

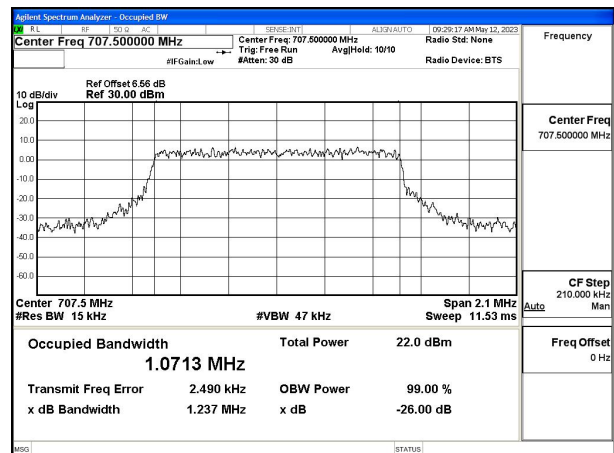


Fig.2

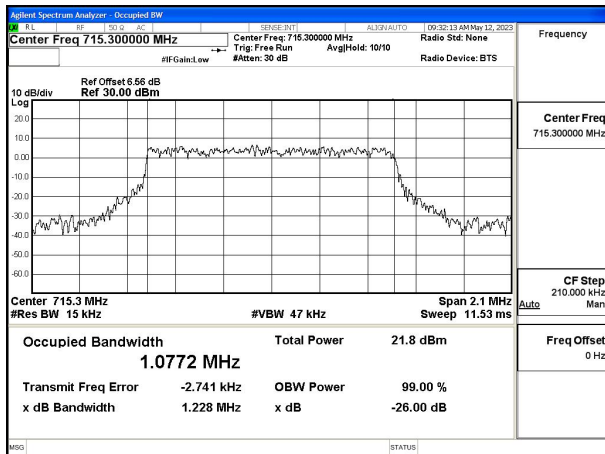


Fig.3

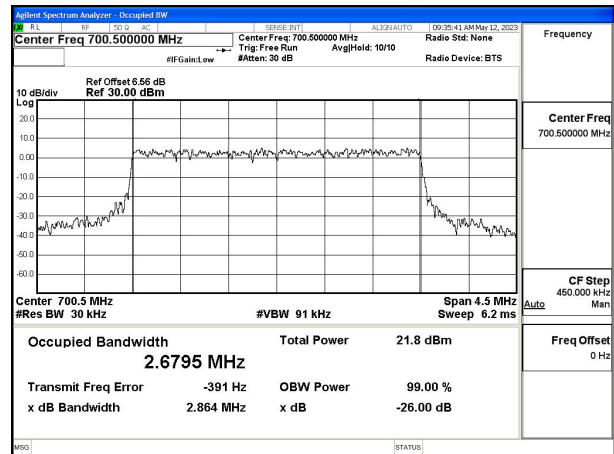


Fig.4

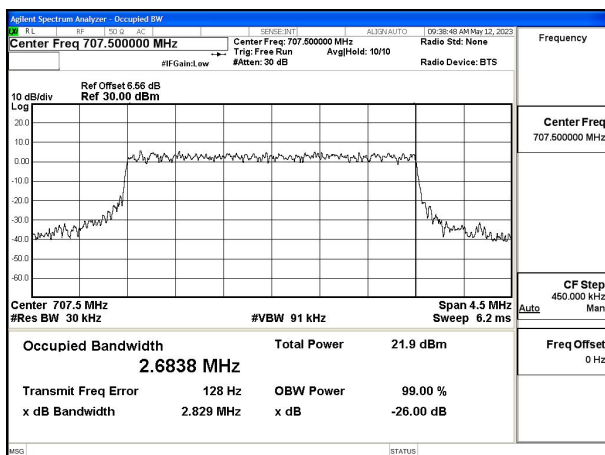


Fig.5

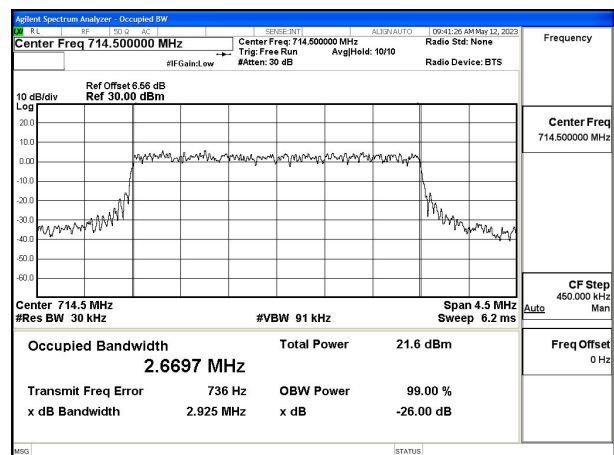


Fig.6

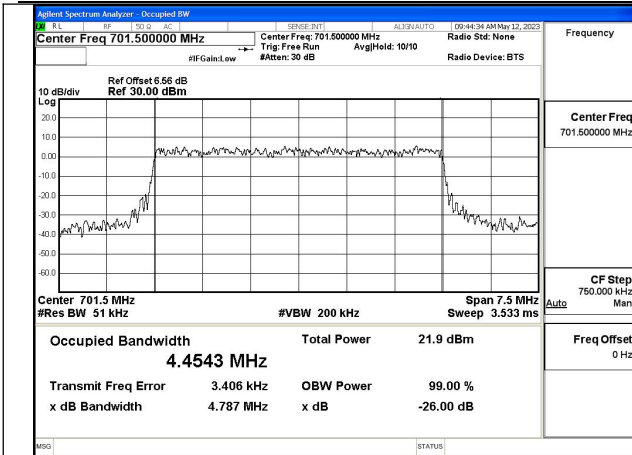


Fig.7

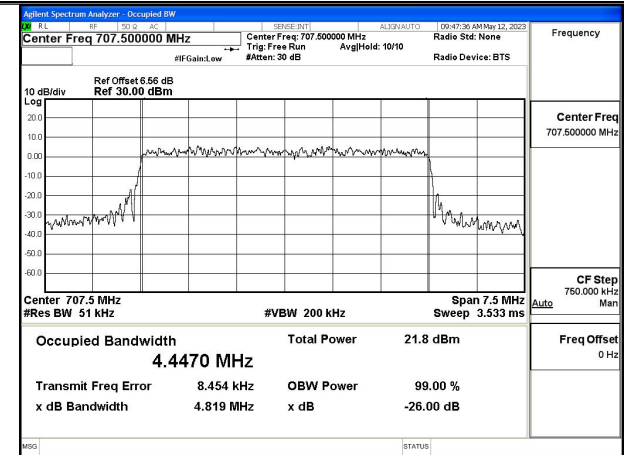


Fig.8

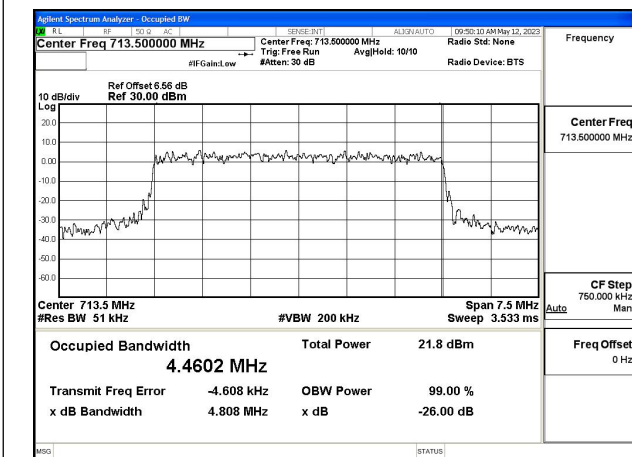


Fig.9

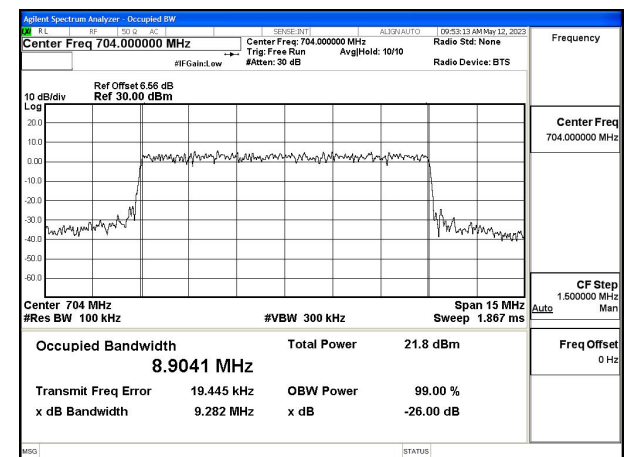


Fig.10

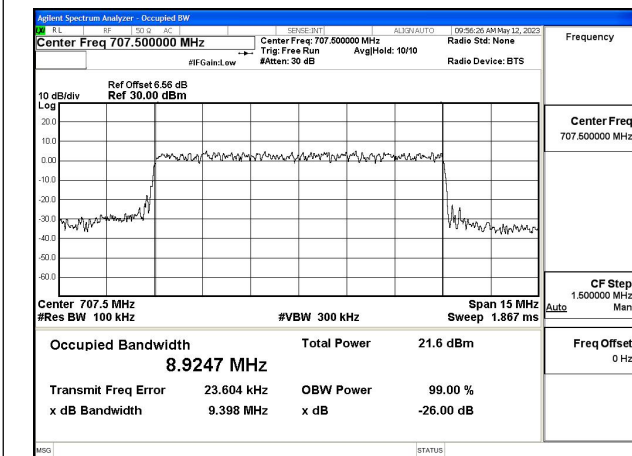


Fig.11

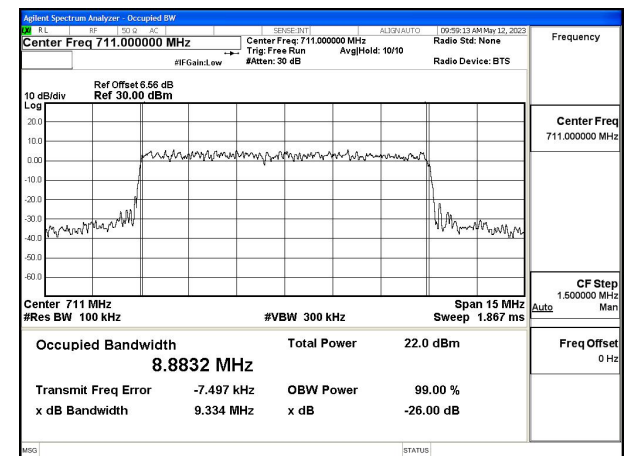


Fig.12

Test Mode: 16QAM

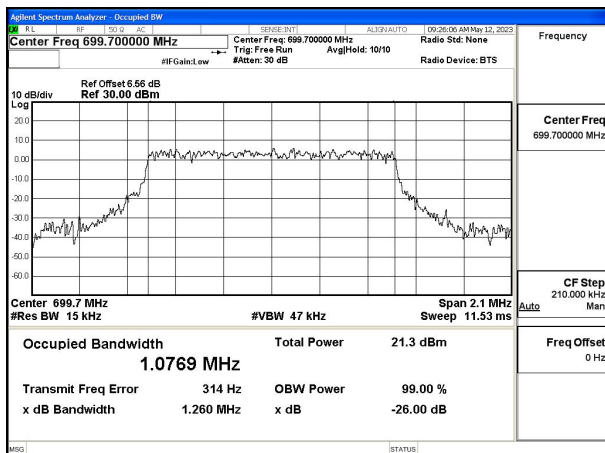


Fig.13

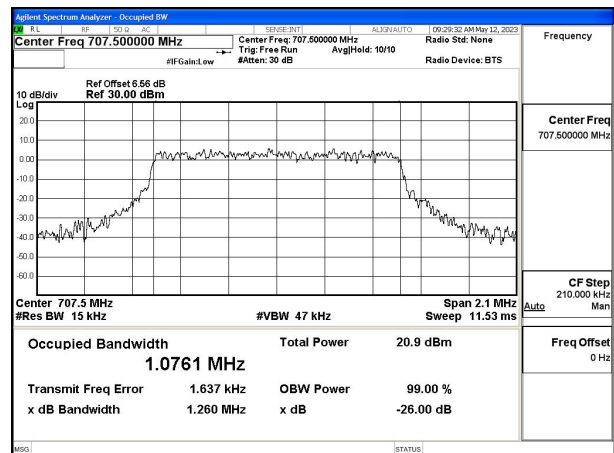


Fig.14

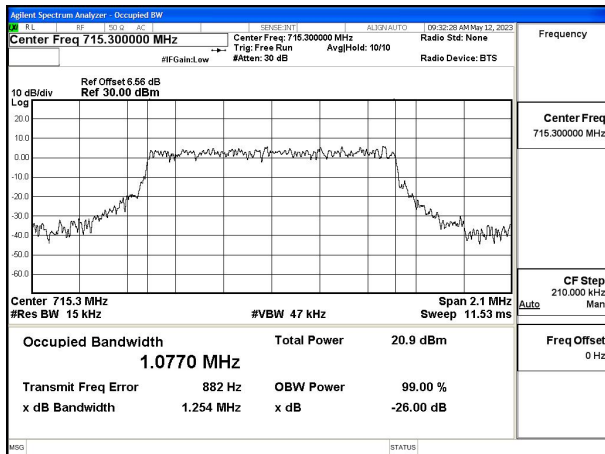


Fig.15

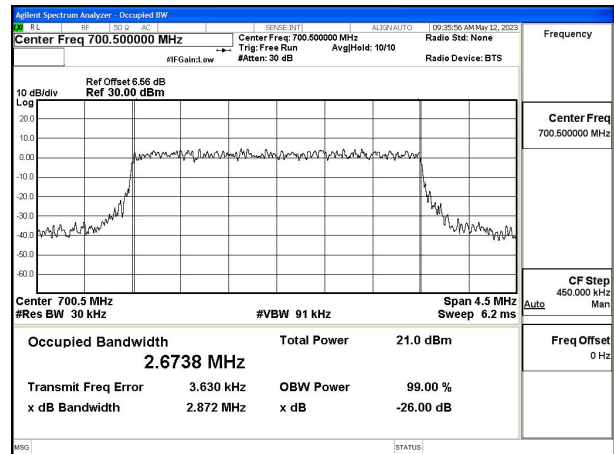


Fig.16

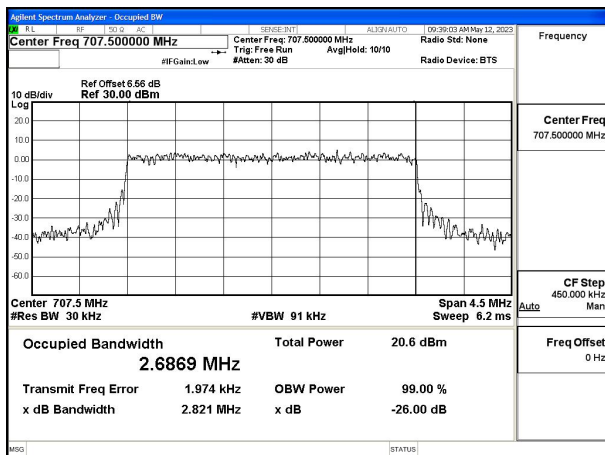


Fig.17

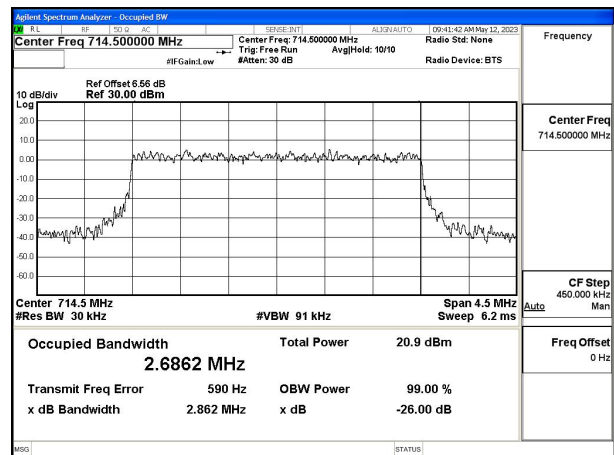


Fig.18

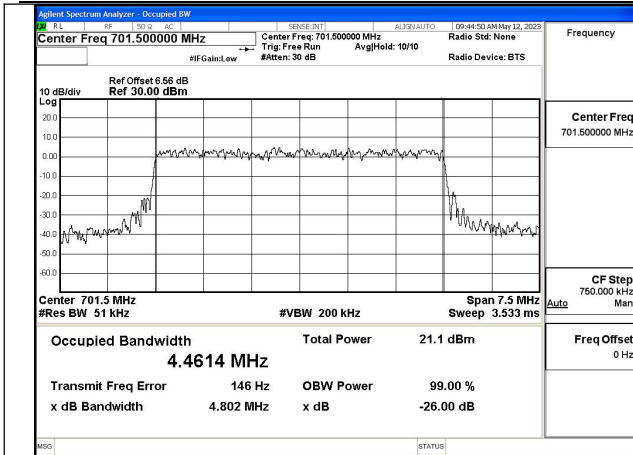


Fig.19

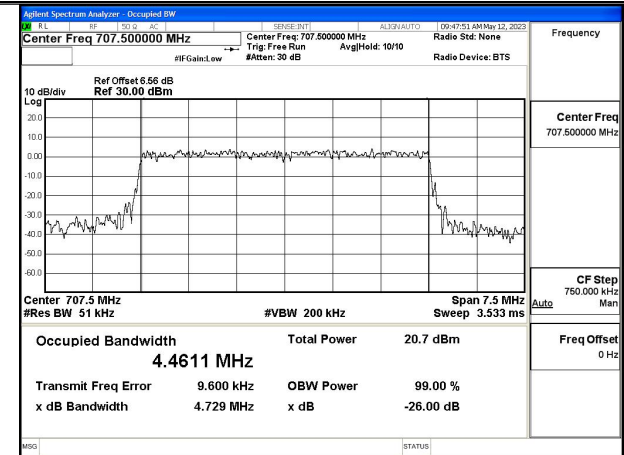


Fig.20

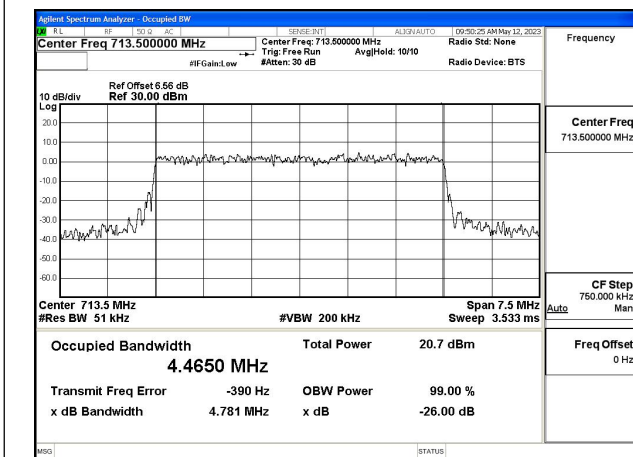


Fig.21

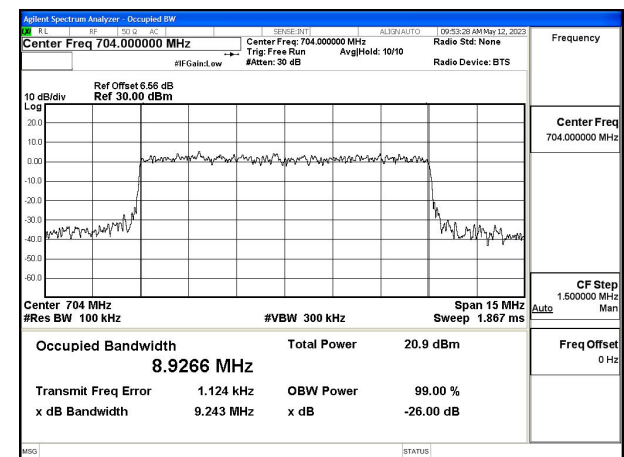


Fig.22

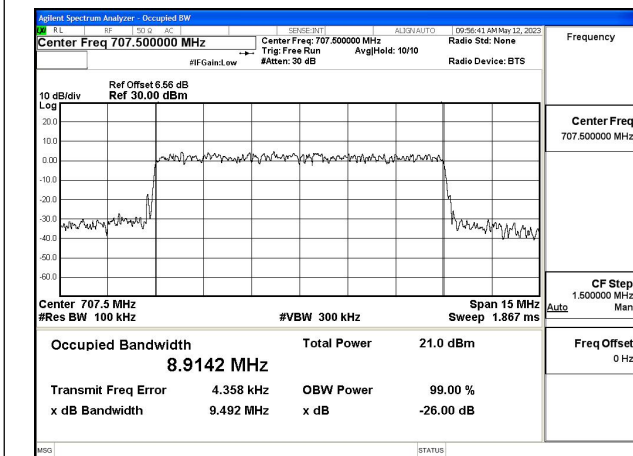


Fig.23

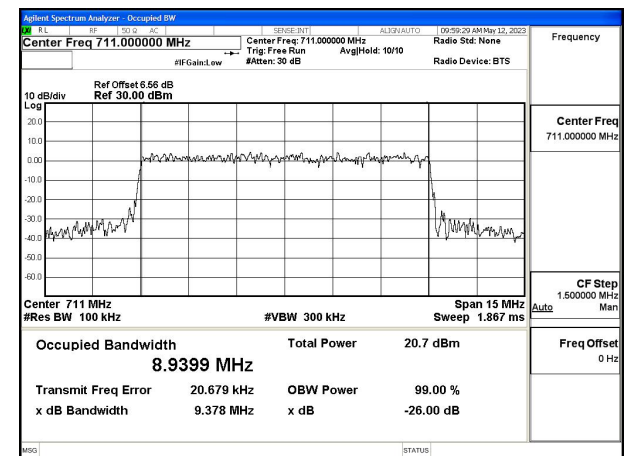


Fig.24

Test Mode: 64QAM

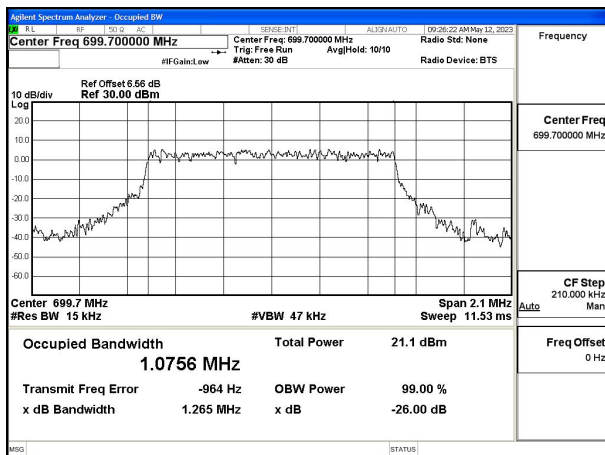


Fig.25

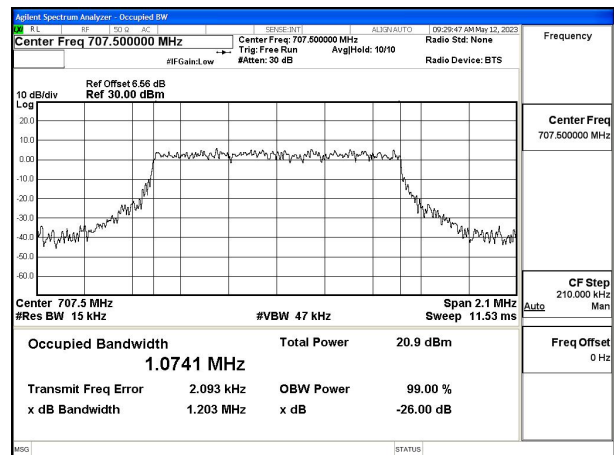


Fig.26

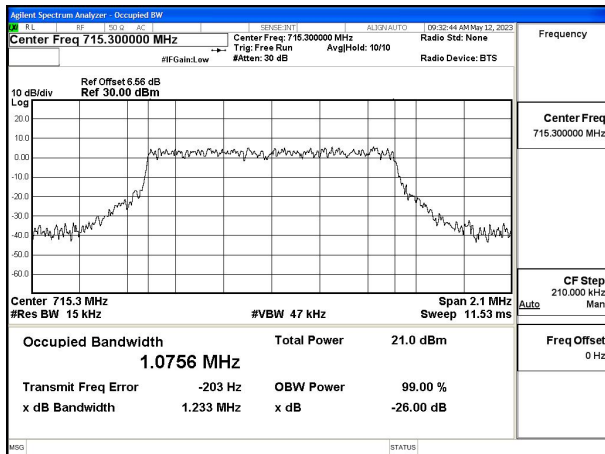


Fig.27

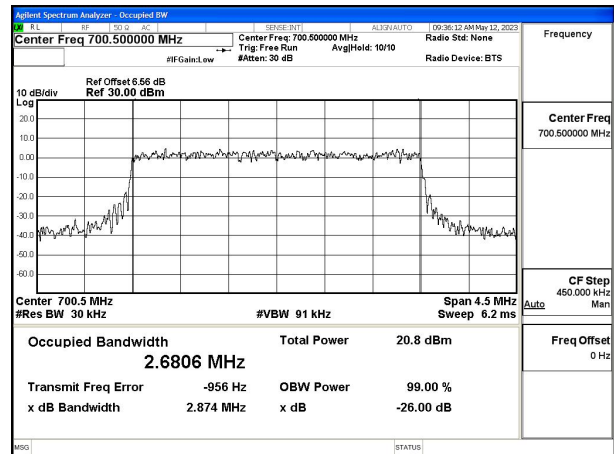


Fig.28

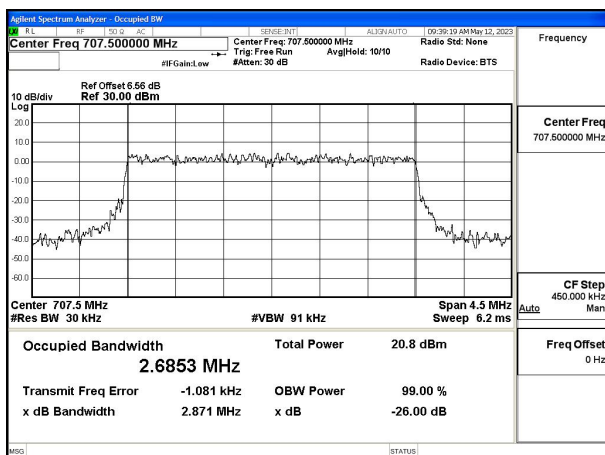


Fig.29

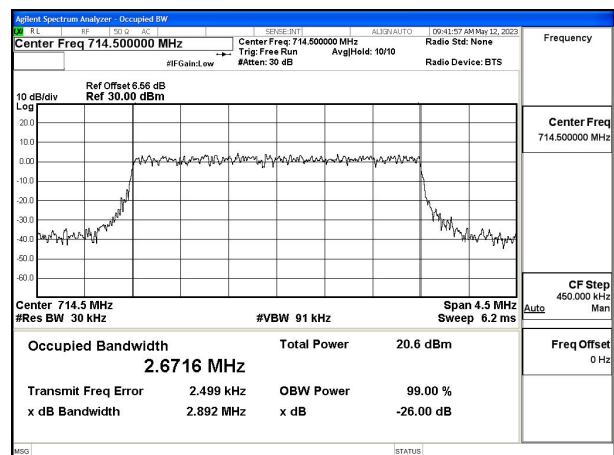


Fig.30

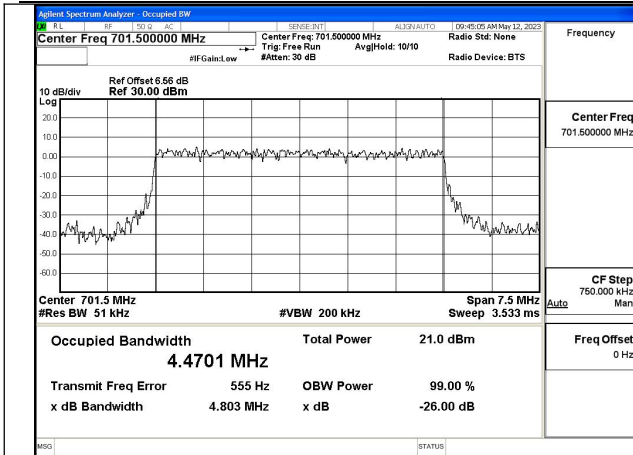


Fig.31

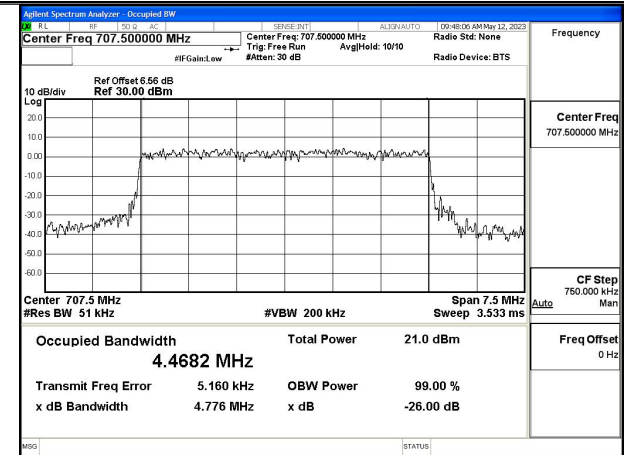


Fig.32

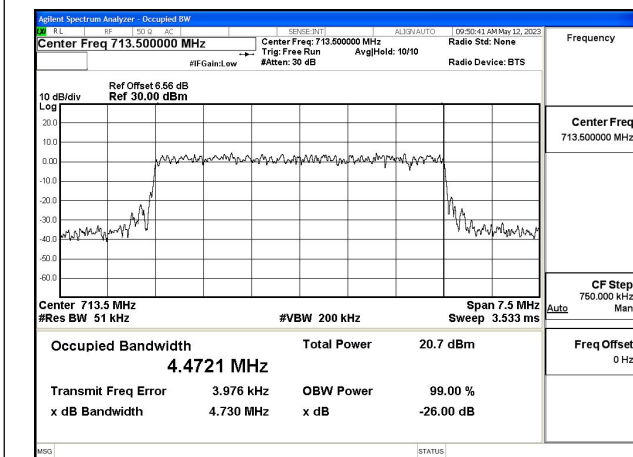


Fig.33

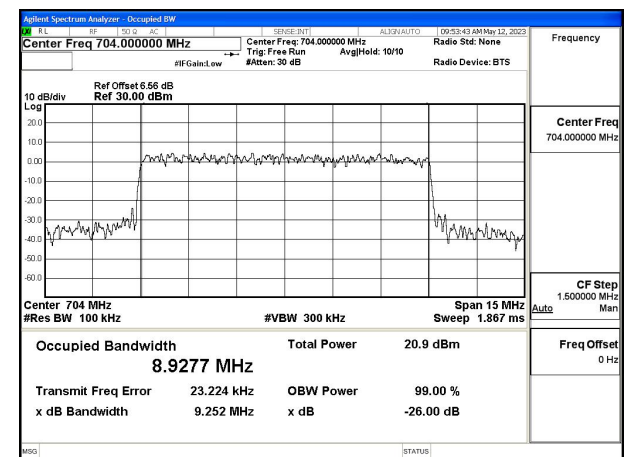


Fig.34

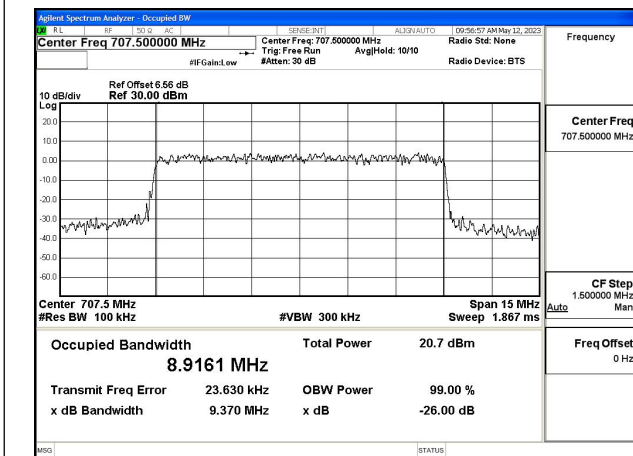


Fig.35

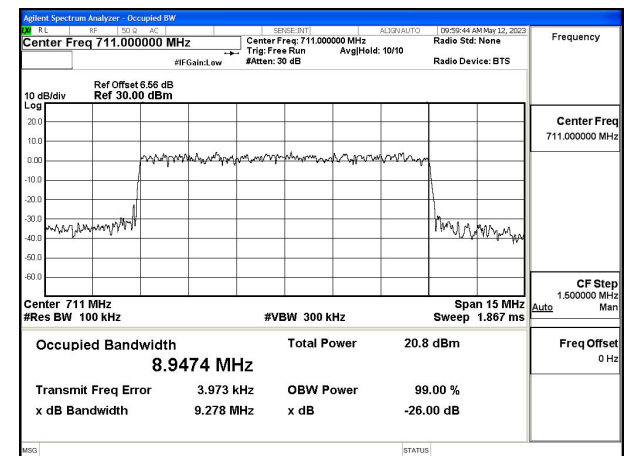


Fig.36

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	1.218	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.237	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.228	Fig.3
12	QPSK	700.5	23025	3	15	0	2.864	Fig.4
12	QPSK	707.5	23095	3	15	0	2.829	Fig.5
12	QPSK	714.5	23165	3	15	0	2.925	Fig.6
12	QPSK	701.5	23035	5	25	0	4.787	Fig.7
12	QPSK	707.5	23095	5	25	0	4.819	Fig.8
12	QPSK	713.5	23155	5	25	0	4.808	Fig.9
12	QPSK	704	23060	10	50	0	9.282	Fig.10
12	QPSK	707.5	23095	10	50	0	9.398	Fig.11
12	QPSK	711	23130	10	50	0	9.334	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	1.260	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.260	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.254	Fig.15
12	16QAM	700.5	23025	3	15	0	2.872	Fig.16
12	16QAM	707.5	23095	3	15	0	2.821	Fig.17
12	16QAM	714.5	23165	3	15	0	2.862	Fig.18
12	16QAM	701.5	23035	5	25	0	4.802	Fig.19
12	16QAM	707.5	23095	5	25	0	4.729	Fig.20
12	16QAM	713.5	23155	5	25	0	4.781	Fig.21
12	16QAM	704	23060	10	50	0	9.243	Fig.22
12	16QAM	707.5	23095	10	50	0	9.492	Fig.23
12	16QAM	711	23130	10	50	0	9.378	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	1.265	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.203	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.233	Fig.27
12	64QAM	700.5	23025	3	15	0	2.874	Fig.28
12	64QAM	707.5	23095	3	15	0	2.871	Fig.29
12	64QAM	714.5	23165	3	15	0	2.892	Fig.30
12	64QAM	701.5	23035	5	25	0	4.803	Fig.31
12	64QAM	707.5	23095	5	25	0	4.776	Fig.32
12	64QAM	713.5	23155	5	25	0	4.730	Fig.33
12	64QAM	704	23060	10	50	0	9.252	Fig.34
12	64QAM	707.5	23095	10	50	0	9.370	Fig.35
12	64QAM	711	23130	10	50	0	9.278	Fig.36

Test Mode: QPSK

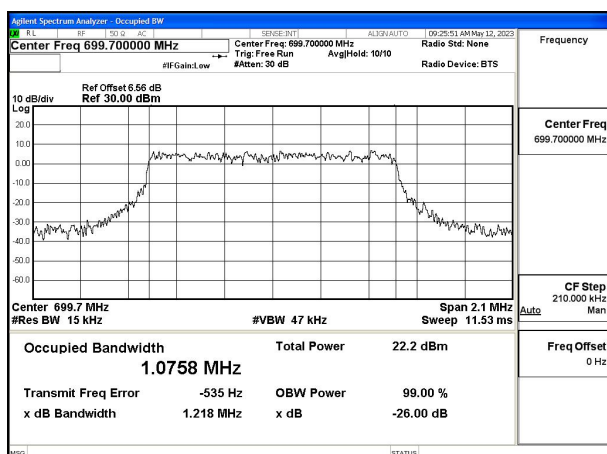


Fig.1

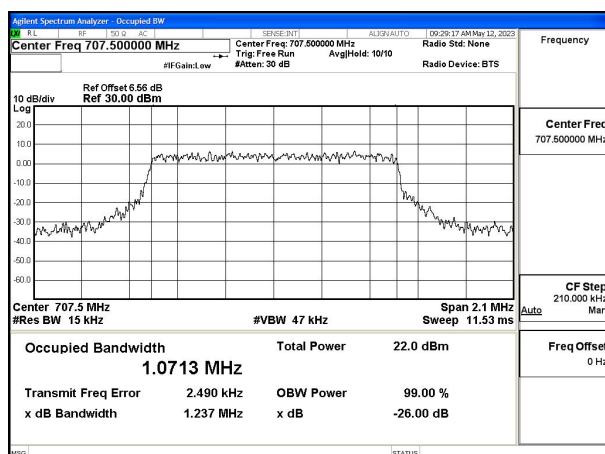


Fig.2

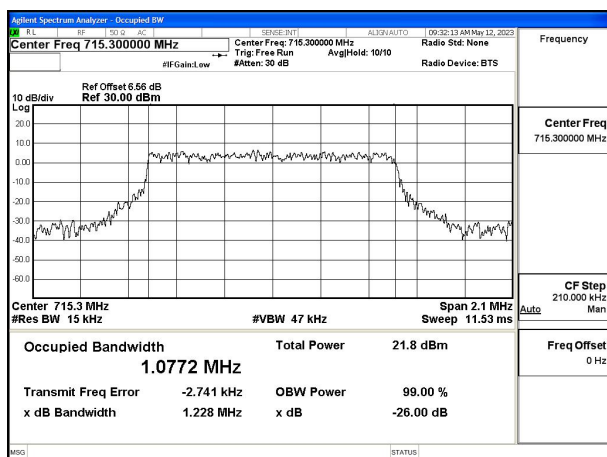


Fig.3

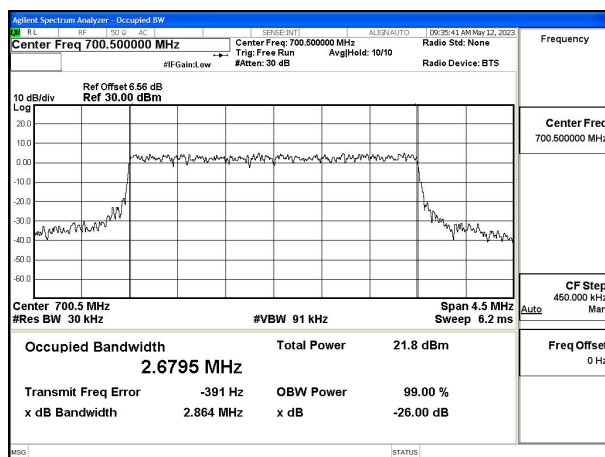


Fig.4

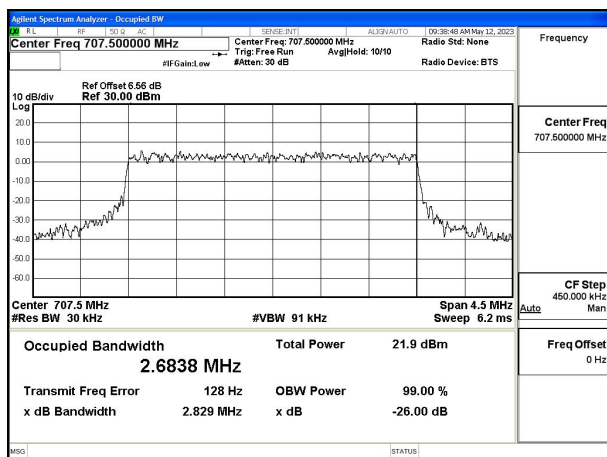


Fig.5

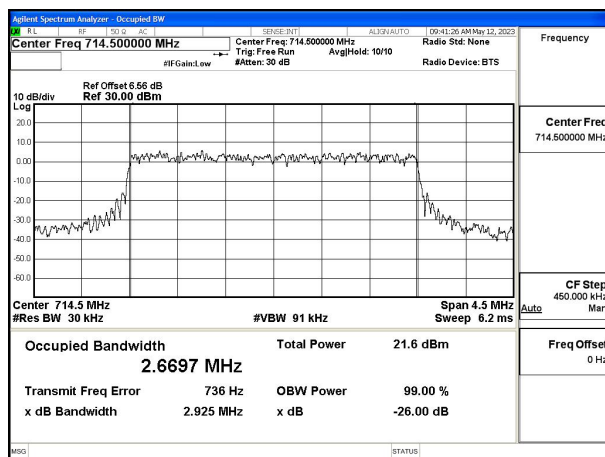


Fig.6