

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	23.69
QPSK	699.7	23017	1.4	1	3	23.66
QPSK	699.7	23017	1.4	1	5	23.66
QPSK	699.7	23017	1.4	3	0	23.69
QPSK	699.7	23017	1.4	3	1	23.81
QPSK	699.7	23017	1.4	3	3	23.77
QPSK	699.7	23017	1.4	6	0	22.68
QPSK	707.5	23095	1.4	1	0	23.43
QPSK	707.5	23095	1.4	1	3	23.71
QPSK	707.5	23095	1.4	1	5	23.53
QPSK	707.5	23095	1.4	3	0	23.66
QPSK	707.5	23095	1.4	3	1	23.62
QPSK	707.5	23095	1.4	3	3	23.52
QPSK	707.5	23095	1.4	6	0	22.62
QPSK	715.3	23173	1.4	1	0	23.62
QPSK	715.3	23173	1.4	1	3	23.74
QPSK	715.3	23173	1.4	1	5	23.52
QPSK	715.3	23173	1.4	3	0	23.76
QPSK	715.3	23173	1.4	3	1	23.88
QPSK	715.3	23173	1.4	3	3	23.62
QPSK	715.3	23173	1.4	6	0	22.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.87
16QAM	699.7	23017	1.4	1	3	22.99
16QAM	699.7	23017	1.4	1	5	22.78
16QAM	699.7	23017	1.4	3	0	22.70
16QAM	699.7	23017	1.4	3	1	22.59
16QAM	699.7	23017	1.4	3	3	22.62
16QAM	699.7	23017	1.4	6	0	21.81
16QAM	707.5	23095	1.4	1	0	22.50
16QAM	707.5	23095	1.4	1	3	22.64
16QAM	707.5	23095	1.4	1	5	22.55
16QAM	707.5	23095	1.4	3	0	22.73
16QAM	707.5	23095	1.4	3	1	22.71
16QAM	707.5	23095	1.4	3	3	22.83
16QAM	707.5	23095	1.4	6	0	21.79
16QAM	715.3	23173	1.4	1	0	22.73
16QAM	715.3	23173	1.4	1	3	22.95

16QAM	715.3	23173	1.4	1	5	22.76
16QAM	715.3	23173	1.4	3	0	22.76
16QAM	715.3	23173	1.4	3	1	22.74
16QAM	715.3	23173	1.4	3	3	22.57
16QAM	715.3	23173	1.4	6	0	21.74

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.66
QPSK	700.5	23025	3	1	8	23.67
QPSK	700.5	23025	3	1	14	23.70
QPSK	700.5	23025	3	8	0	22.73
QPSK	700.5	23025	3	8	4	22.75
QPSK	700.5	23025	3	8	7	22.72
QPSK	700.5	23025	3	15	0	22.76
QPSK	707.5	23095	3	1	0	23.61
QPSK	707.5	23095	3	1	8	23.63
QPSK	707.5	23095	3	1	14	23.55
QPSK	707.5	23095	3	8	0	22.61
QPSK	707.5	23095	3	8	4	22.71
QPSK	707.5	23095	3	8	7	22.54
QPSK	707.5	23095	3	15	0	22.60
QPSK	714.5	23165	3	1	0	23.56
QPSK	714.5	23165	3	1	8	23.58
QPSK	714.5	23165	3	1	14	23.63
QPSK	714.5	23165	3	8	0	22.63
QPSK	714.5	23165	3	8	4	22.73
QPSK	714.5	23165	3	8	7	22.58
QPSK	714.5	23165	3	15	0	22.64

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	23.29
16QAM	700.5	23025	3	1	8	23.25
16QAM	700.5	23025	3	1	14	23.21
16QAM	700.5	23025	3	8	0	21.77
16QAM	700.5	23025	3	8	4	21.85
16QAM	700.5	23025	3	8	7	21.84
16QAM	700.5	23025	3	15	0	21.85
16QAM	707.5	23095	3	1	0	22.83
16QAM	707.5	23095	3	1	8	22.86
16QAM	707.5	23095	3	1	14	22.72
16QAM	707.5	23095	3	8	0	21.57
16QAM	707.5	23095	3	8	4	21.59
16QAM	707.5	23095	3	8	7	21.56
16QAM	707.5	23095	3	15	0	21.68
16QAM	714.5	23165	3	1	0	22.87
16QAM	714.5	23165	3	1	8	22.83
16QAM	714.5	23165	3	1	14	22.79
16QAM	714.5	23165	3	8	0	21.65
16QAM	714.5	23165	3	8	4	21.66
16QAM	714.5	23165	3	8	7	21.66
16QAM	714.5	23165	3	15	0	21.61

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.59
QPSK	701.5	23035	5	1	12	23.68
QPSK	701.5	23035	5	1	24	23.41
QPSK	701.5	23035	5	12	0	22.68
QPSK	701.5	23035	5	12	7	22.69
QPSK	701.5	23035	5	12	13	22.56
QPSK	701.5	23035	5	25	0	22.60
QPSK	707.5	23095	5	1	0	23.50
QPSK	707.5	23095	5	1	12	23.73
QPSK	707.5	23095	5	1	24	23.44
QPSK	707.5	23095	5	12	0	22.58
QPSK	707.5	23095	5	12	7	22.61
QPSK	707.5	23095	5	12	13	22.50
QPSK	707.5	23095	5	25	0	22.56
QPSK	713.5	23155	5	1	0	23.52
QPSK	713.5	23155	5	1	12	23.76
QPSK	713.5	23155	5	1	24	23.56
QPSK	713.5	23155	5	12	0	22.53
QPSK	713.5	23155	5	12	7	22.61
QPSK	713.5	23155	5	12	13	22.54
QPSK	713.5	23155	5	25	0	22.61

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.77
16QAM	701.5	23035	5	1	12	22.92
16QAM	701.5	23035	5	1	24	22.65
16QAM	701.5	23035	5	12	0	21.63
16QAM	701.5	23035	5	12	7	21.69
16QAM	701.5	23035	5	12	13	21.61
16QAM	701.5	23035	5	25	0	21.65
16QAM	707.5	23095	5	1	0	22.87
16QAM	707.5	23095	5	1	12	23.15
16QAM	707.5	23095	5	1	24	22.84
16QAM	707.5	23095	5	12	0	21.57
16QAM	707.5	23095	5	12	7	21.67
16QAM	707.5	23095	5	12	13	21.51
16QAM	707.5	23095	5	25	0	21.61
16QAM	713.5	23155	5	1	0	22.72
16QAM	713.5	23155	5	1	12	22.94
16QAM	713.5	23155	5	1	24	22.67
16QAM	713.5	23155	5	12	0	21.54
16QAM	713.5	23155	5	12	7	21.70
16QAM	713.5	23155	5	12	13	21.59
16QAM	713.5	23155	5	25	0	21.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.68
QPSK	704	23060	10	1	25	23.82
QPSK	704	23060	10	1	49	23.53
QPSK	704	23060	10	25	0	22.75
QPSK	704	23060	10	25	12	22.61
QPSK	704	23060	10	25	25	22.58
QPSK	704	23060	10	50	0	22.66
QPSK	707.5	23095	10	1	0	23.55
QPSK	707.5	23095	10	1	25	23.70
QPSK	707.5	23095	10	1	49	23.60
QPSK	707.5	23095	10	25	0	22.69
QPSK	707.5	23095	10	25	12	22.68
QPSK	707.5	23095	10	25	25	22.60
QPSK	707.5	23095	10	50	0	22.67
QPSK	711	23130	10	1	0	23.53
QPSK	711	23130	10	1	25	23.77
QPSK	711	23130	10	1	49	23.58
QPSK	711	23130	10	25	0	22.62
QPSK	711	23130	10	25	12	22.66
QPSK	711	23130	10	25	25	22.59
QPSK	711	23130	10	50	0	22.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	23.25
16QAM	704	23060	10	1	25	23.39
16QAM	704	23060	10	1	49	23.12
16QAM	704	23060	10	25	0	21.81
16QAM	704	23060	10	25	12	21.75
16QAM	704	23060	10	25	25	21.72
16QAM	704	23060	10	50	0	21.81
16QAM	707.5	23095	10	1	0	22.75
16QAM	707.5	23095	10	1	25	23.04
16QAM	707.5	23095	10	1	49	22.75
16QAM	707.5	23095	10	25	0	21.70
16QAM	707.5	23095	10	25	12	21.79
16QAM	707.5	23095	10	25	25	21.72
16QAM	707.5	23095	10	50	0	21.80
16QAM	711	23130	10	1	0	22.77
16QAM	711	23130	10	1	25	23.04
16QAM	711	23130	10	1	49	22.79
16QAM	711	23130	10	25	0	21.81
16QAM	711	23130	10	25	12	21.79
16QAM	711	23130	10	25	25	21.67
16QAM	711	23130	10	50	0	21.71

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	1.077	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.069	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.078	Fig.3
12	QPSK	700.5	23025	3	15	0	2.670	Fig.4
12	QPSK	707.5	23095	3	15	0	2.671	Fig.5
12	QPSK	714.5	23165	3	15	0	2.672	Fig.6
12	QPSK	701.5	23035	5	25	0	4.459	Fig.7
12	QPSK	707.5	23095	5	25	0	4.477	Fig.8
12	QPSK	713.5	23155	5	25	0	4.472	Fig.9
12	QPSK	704	23060	10	50	0	8.910	Fig.10
12	QPSK	707.5	23095	10	50	0	8.900	Fig.11
12	QPSK	711	23130	10	50	0	8.922	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	1.071	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.066	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.070	Fig.15
12	16QAM	700.5	23025	3	15	0	2.663	Fig.16
12	16QAM	707.5	23095	3	15	0	2.680	Fig.17
12	16QAM	714.5	23165	3	15	0	2.680	Fig.18
12	16QAM	701.5	23035	5	25	0	4.473	Fig.19
12	16QAM	707.5	23095	5	25	0	4.468	Fig.20
12	16QAM	713.5	23155	5	25	0	4.468	Fig.21
12	16QAM	704	23060	10	50	0	8.908	Fig.22
12	16QAM	707.5	23095	10	50	0	8.893	Fig.23
12	16QAM	711	23130	10	50	0	8.879	Fig.24

Test Mode: QPSK

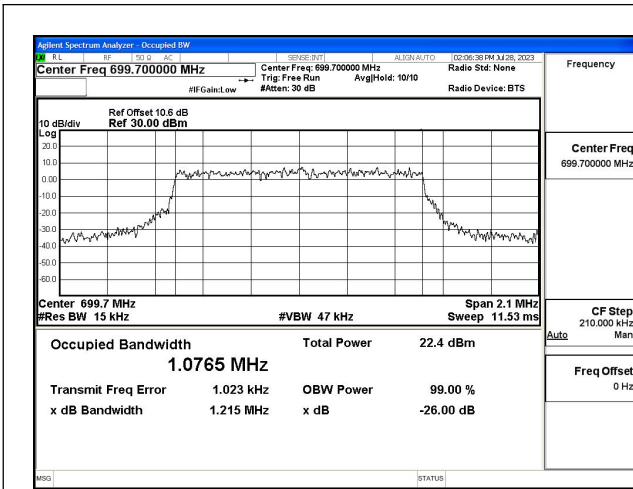


Fig.1

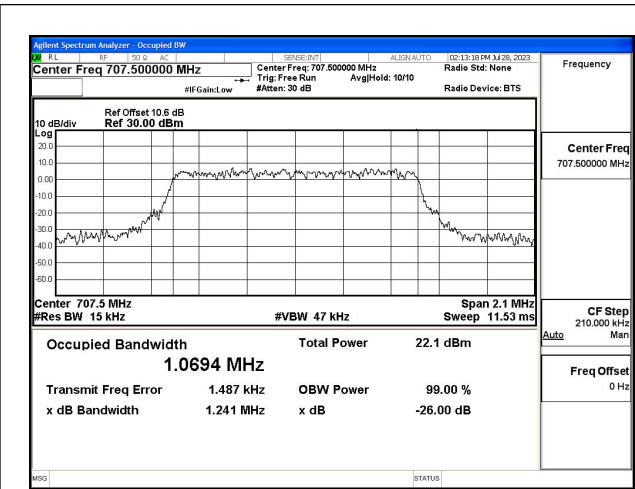


Fig.2

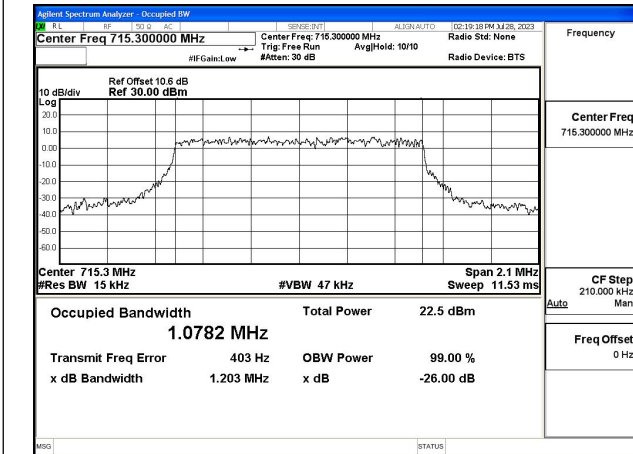


Fig.3

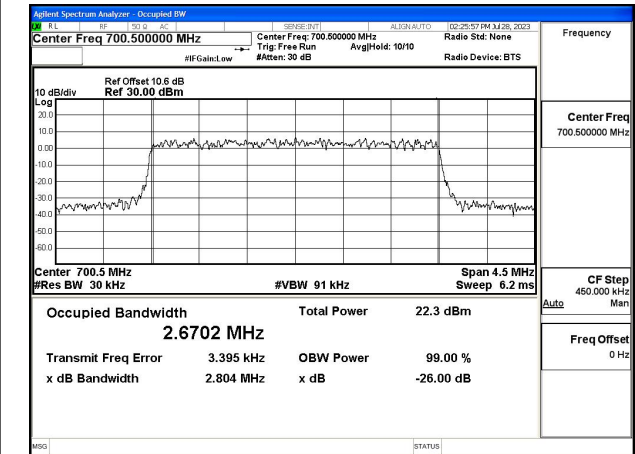


Fig.4

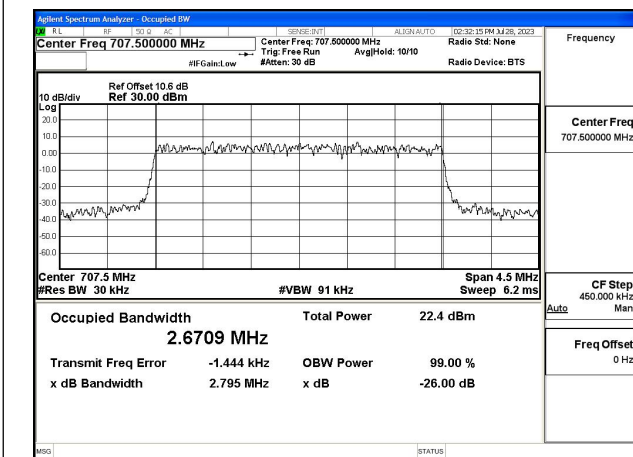


Fig.5

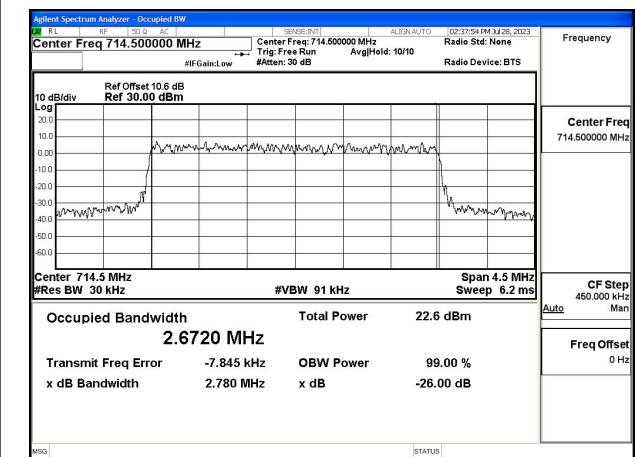


Fig.6

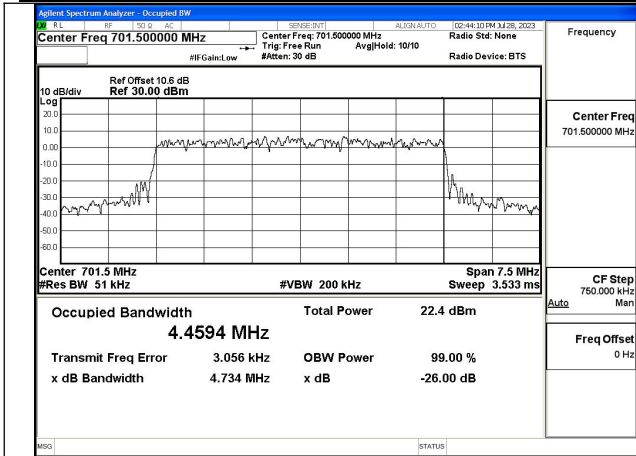


Fig.7

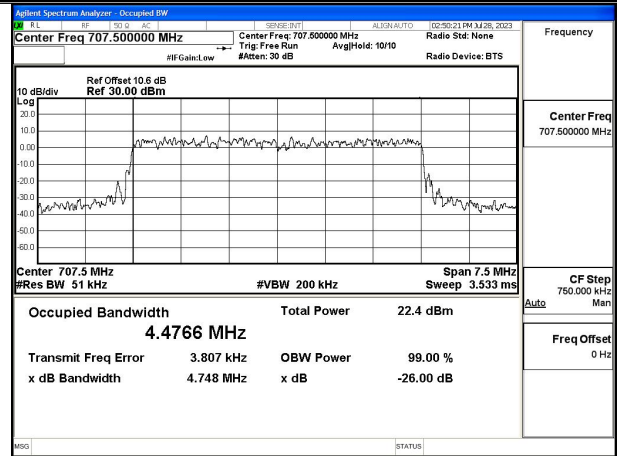


Fig.8

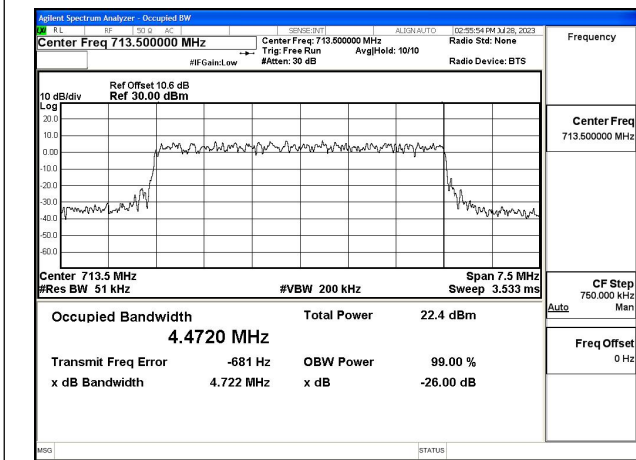


Fig.9

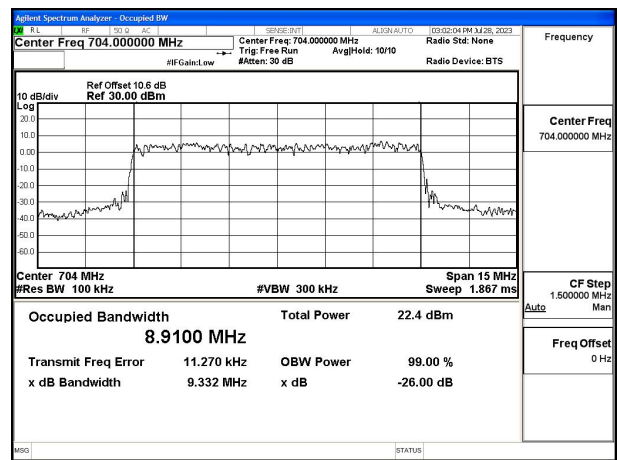


Fig.10

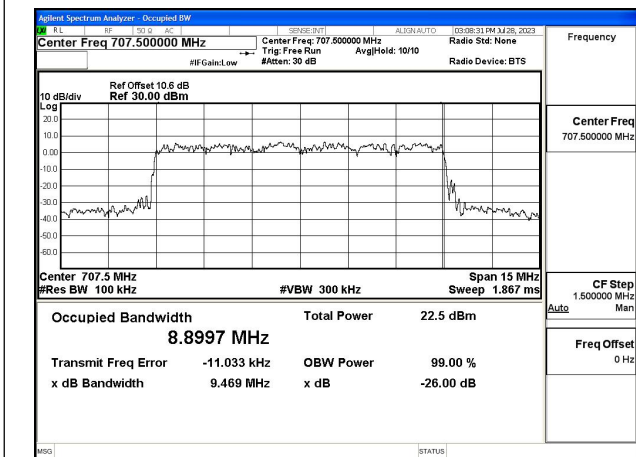


Fig.11

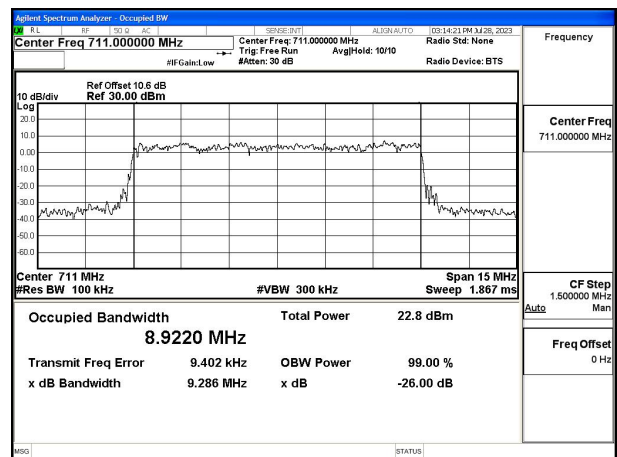


Fig.12

Test Mode: 16QAM

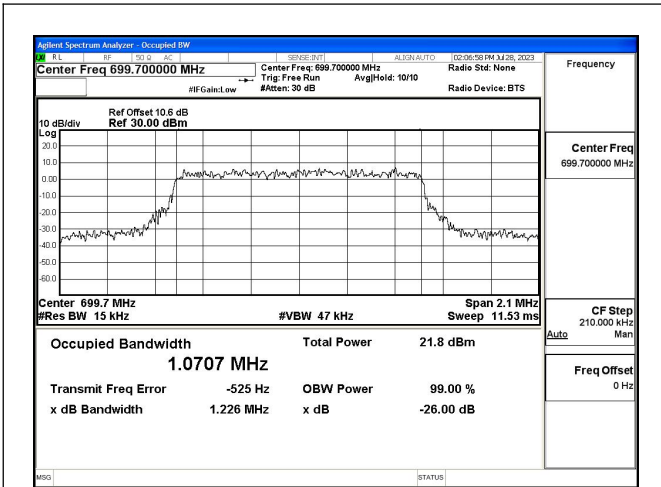


Fig. 13

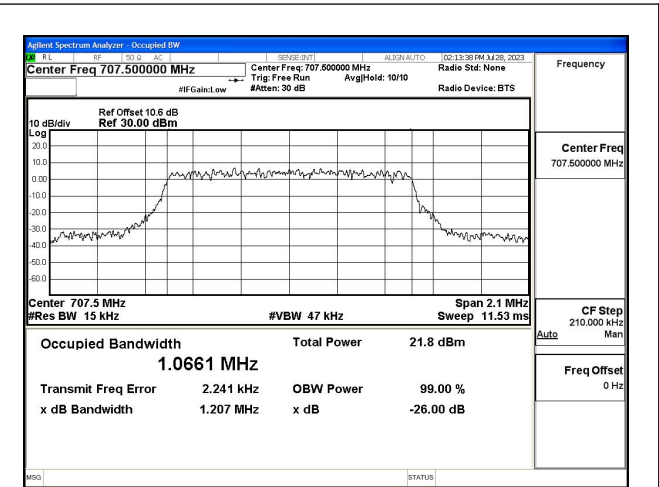


Fig. 14

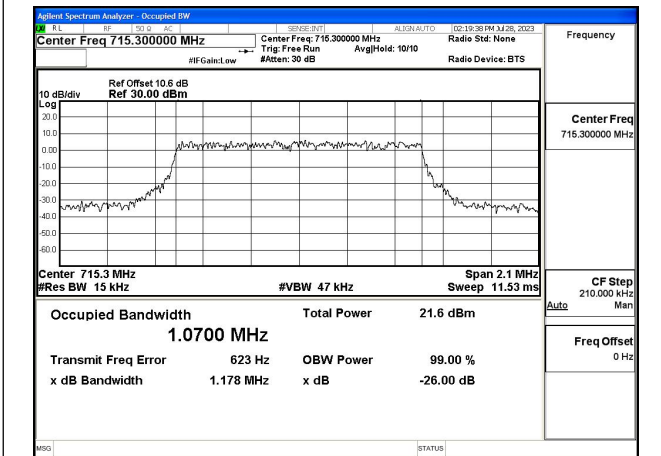


Fig. 15

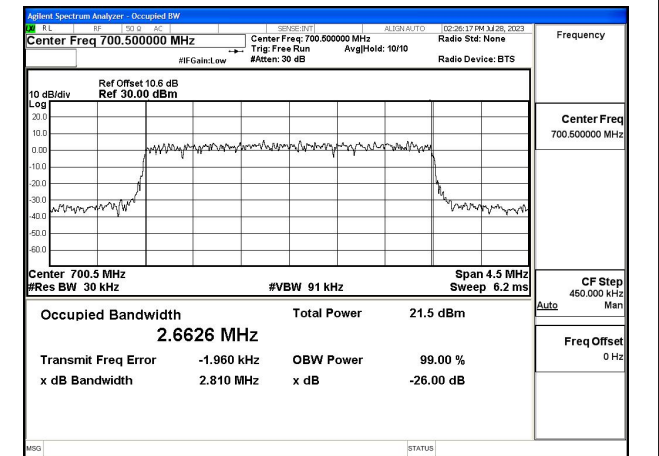


Fig. 16

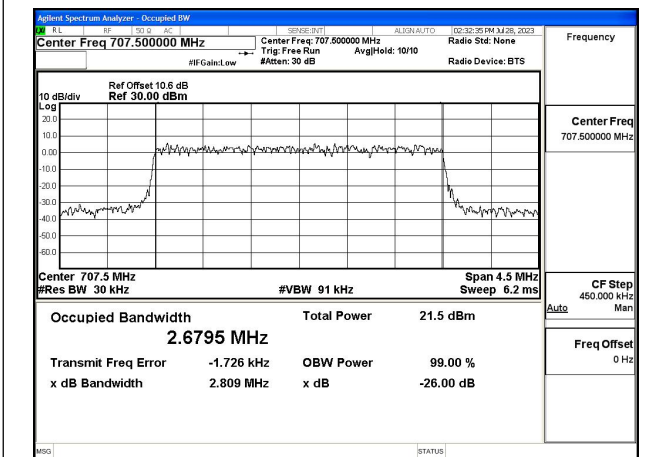


Fig. 17

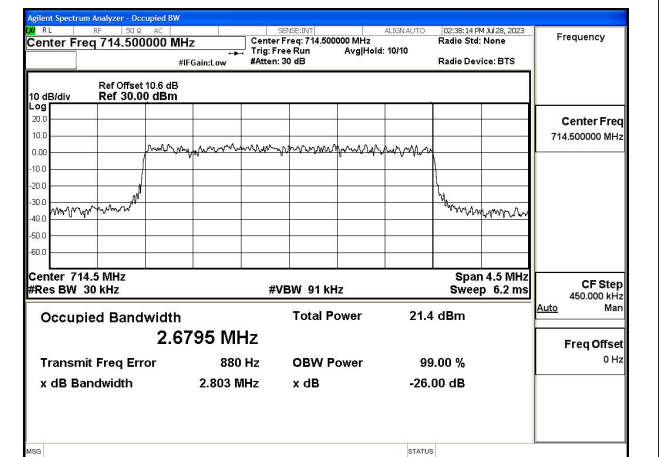


Fig. 18

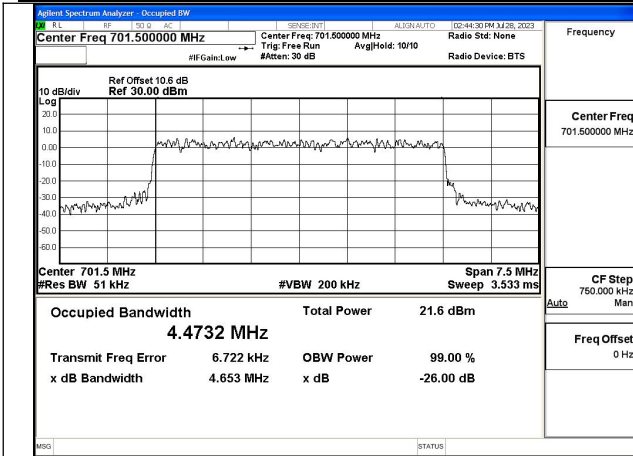


Fig.19

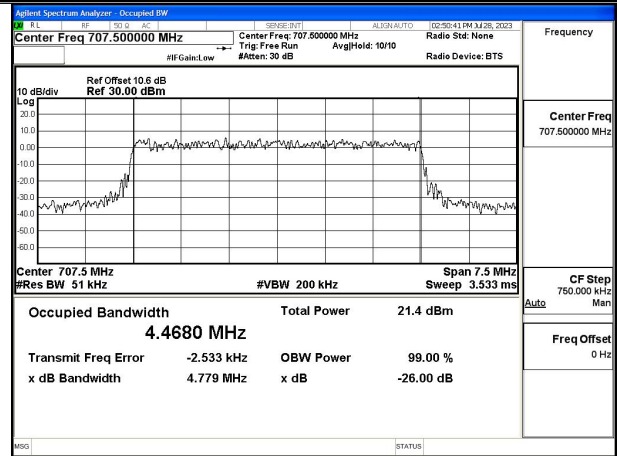


Fig.20

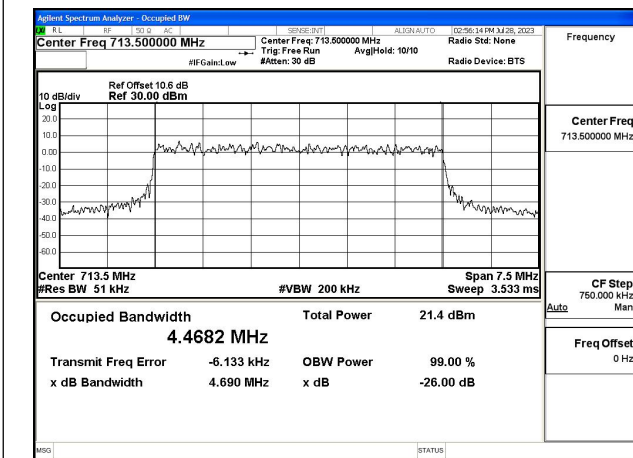


Fig.21

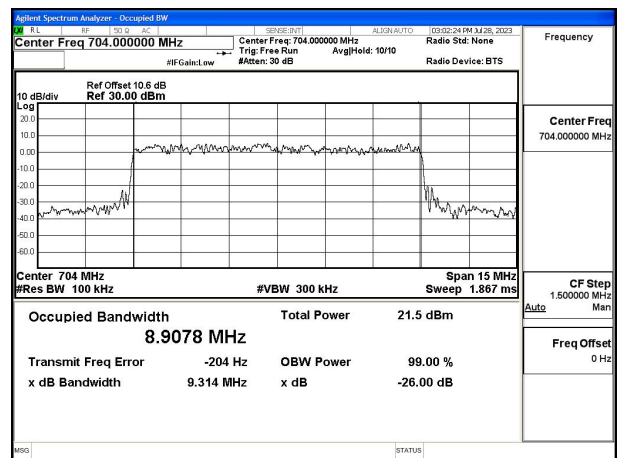


Fig.22

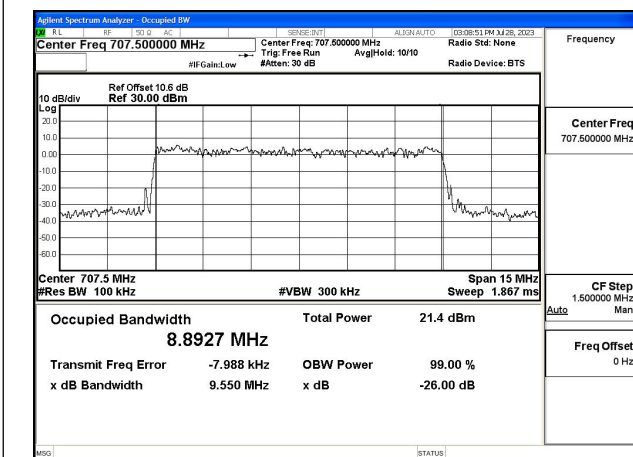


Fig.23

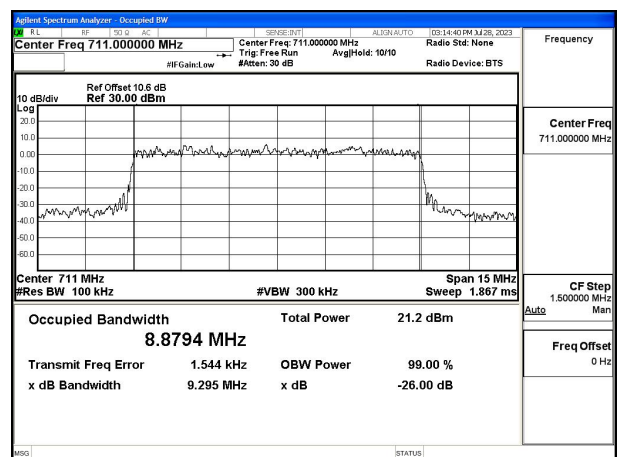


Fig.24

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	1.215	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.241	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.203	Fig.3
12	QPSK	700.5	23025	3	15	0	2.804	Fig.4
12	QPSK	707.5	23095	3	15	0	2.795	Fig.5
12	QPSK	714.5	23165	3	15	0	2.780	Fig.6
12	QPSK	701.5	23035	5	25	0	4.734	Fig.7
12	QPSK	707.5	23095	5	25	0	4.748	Fig.8
12	QPSK	713.5	23155	5	25	0	4.722	Fig.9
12	QPSK	704	23060	10	50	0	9.332	Fig.10
12	QPSK	707.5	23095	10	50	0	9.469	Fig.11
12	QPSK	711	23130	10	50	0	9.286	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	1.226	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.207	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.178	Fig.15
12	16QAM	700.5	23025	3	15	0	2.810	Fig.16
12	16QAM	707.5	23095	3	15	0	2.809	Fig.17
12	16QAM	714.5	23165	3	15	0	2.803	Fig.18
12	16QAM	701.5	23035	5	25	0	4.653	Fig.19
12	16QAM	707.5	23095	5	25	0	4.779	Fig.20
12	16QAM	713.5	23155	5	25	0	4.690	Fig.21
12	16QAM	704	23060	10	50	0	9.314	Fig.22
12	16QAM	707.5	23095	10	50	0	9.550	Fig.23
12	16QAM	711	23130	10	50	0	9.295	Fig.24

Test Mode: QPSK

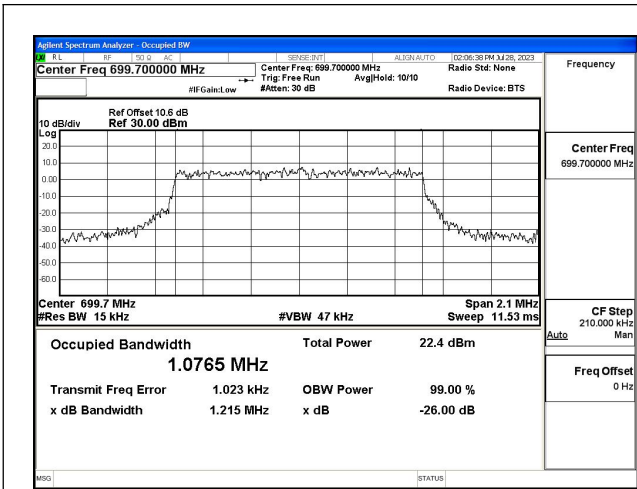


Fig.1

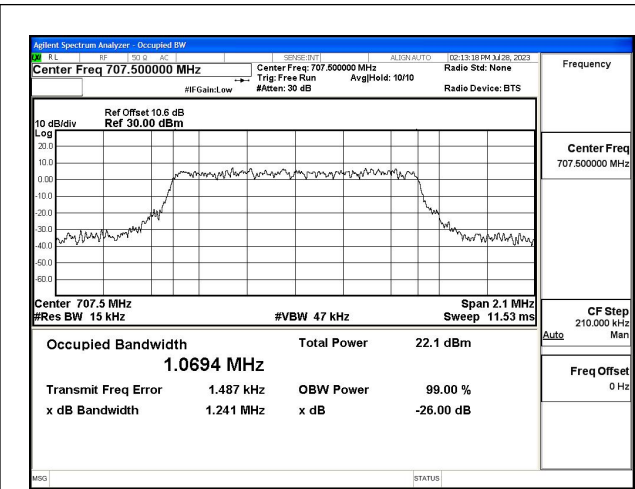


Fig.2

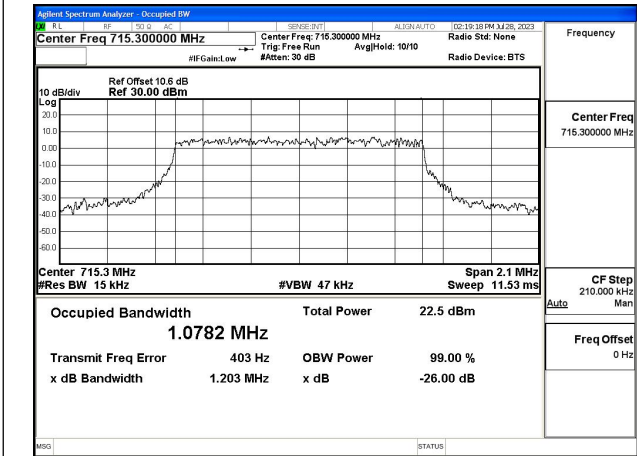


Fig.3

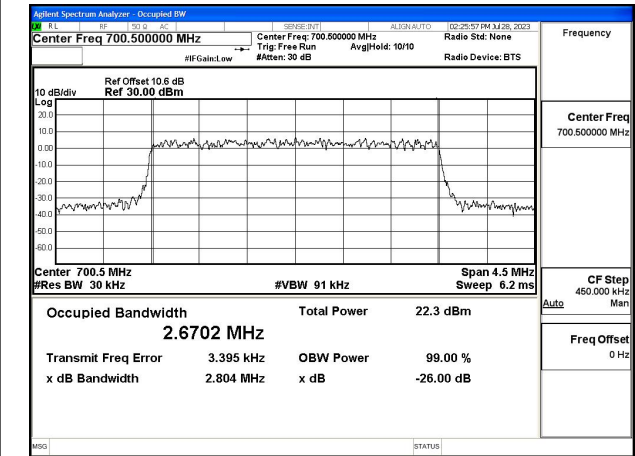


Fig.4

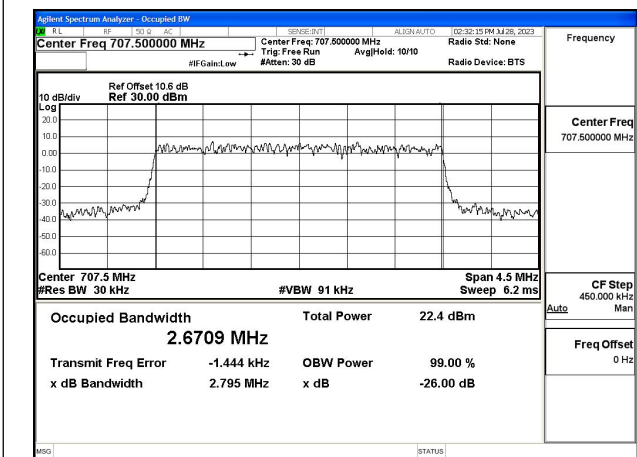


Fig.5

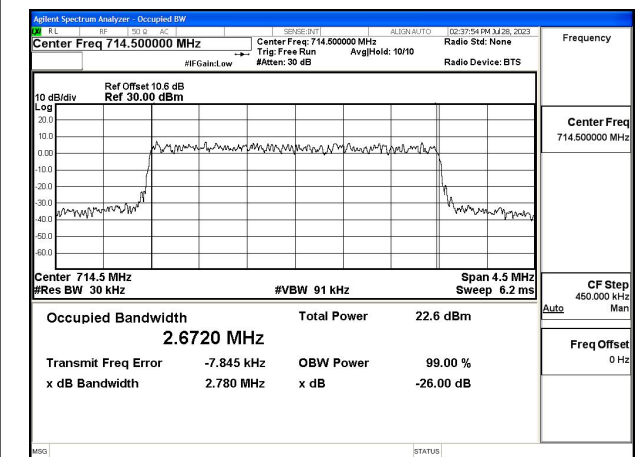


Fig.6

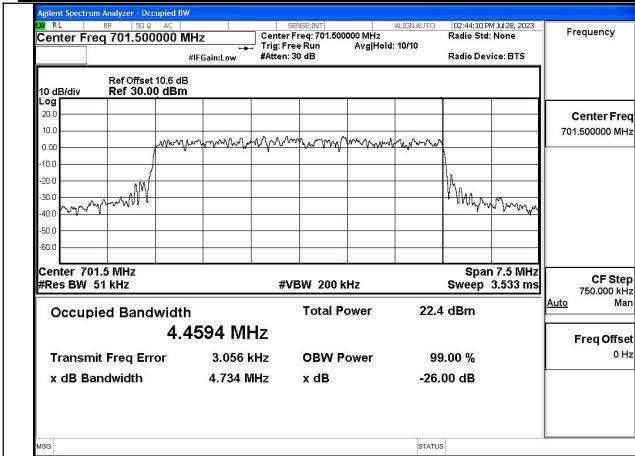


Fig.7

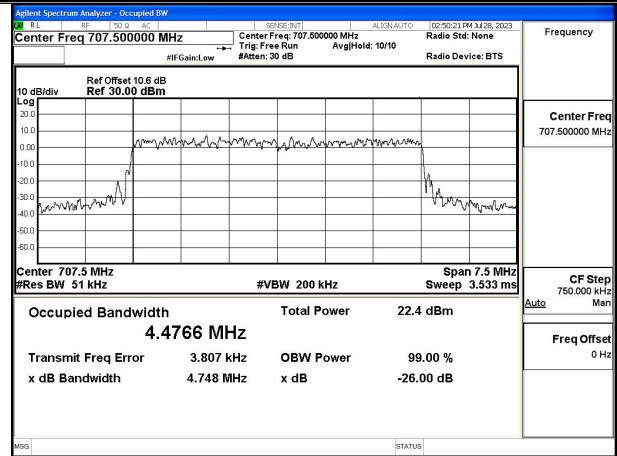


Fig.8

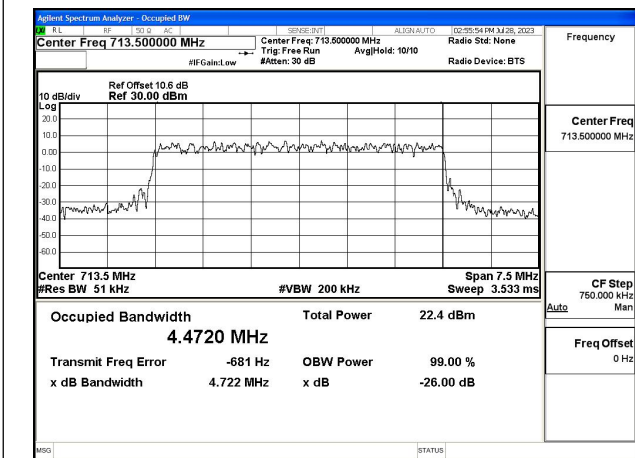


Fig.9

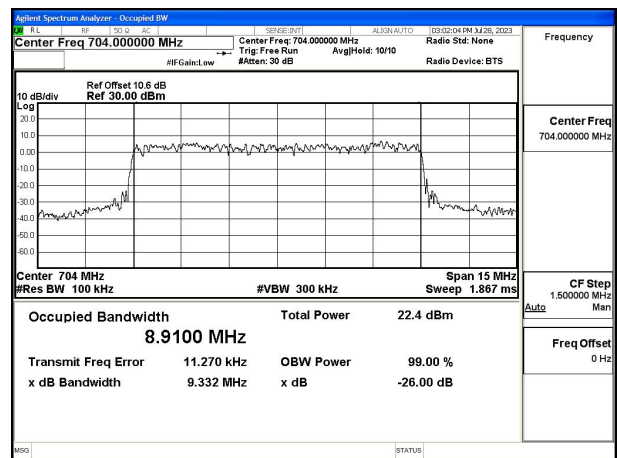


Fig.10

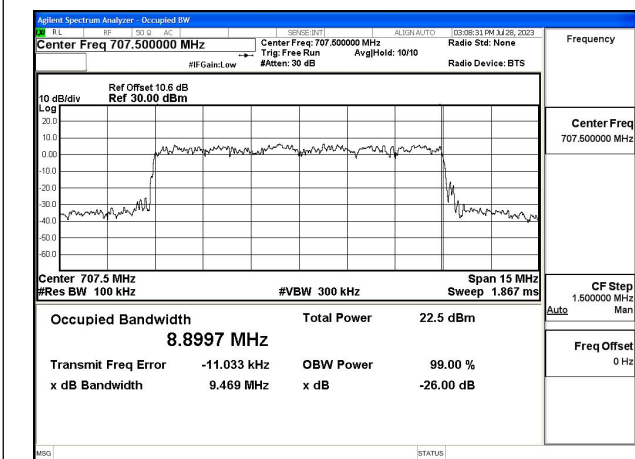


Fig.11

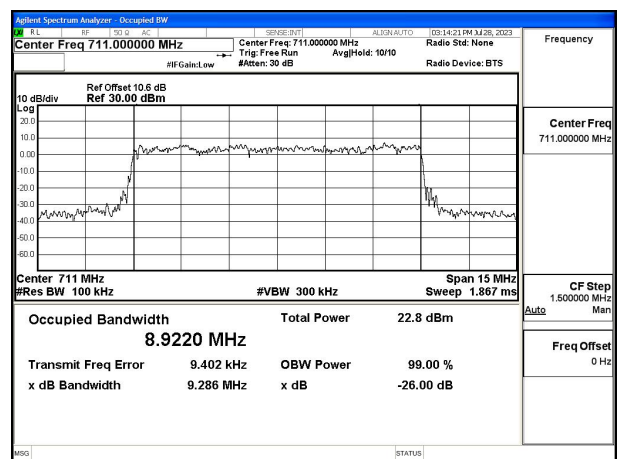
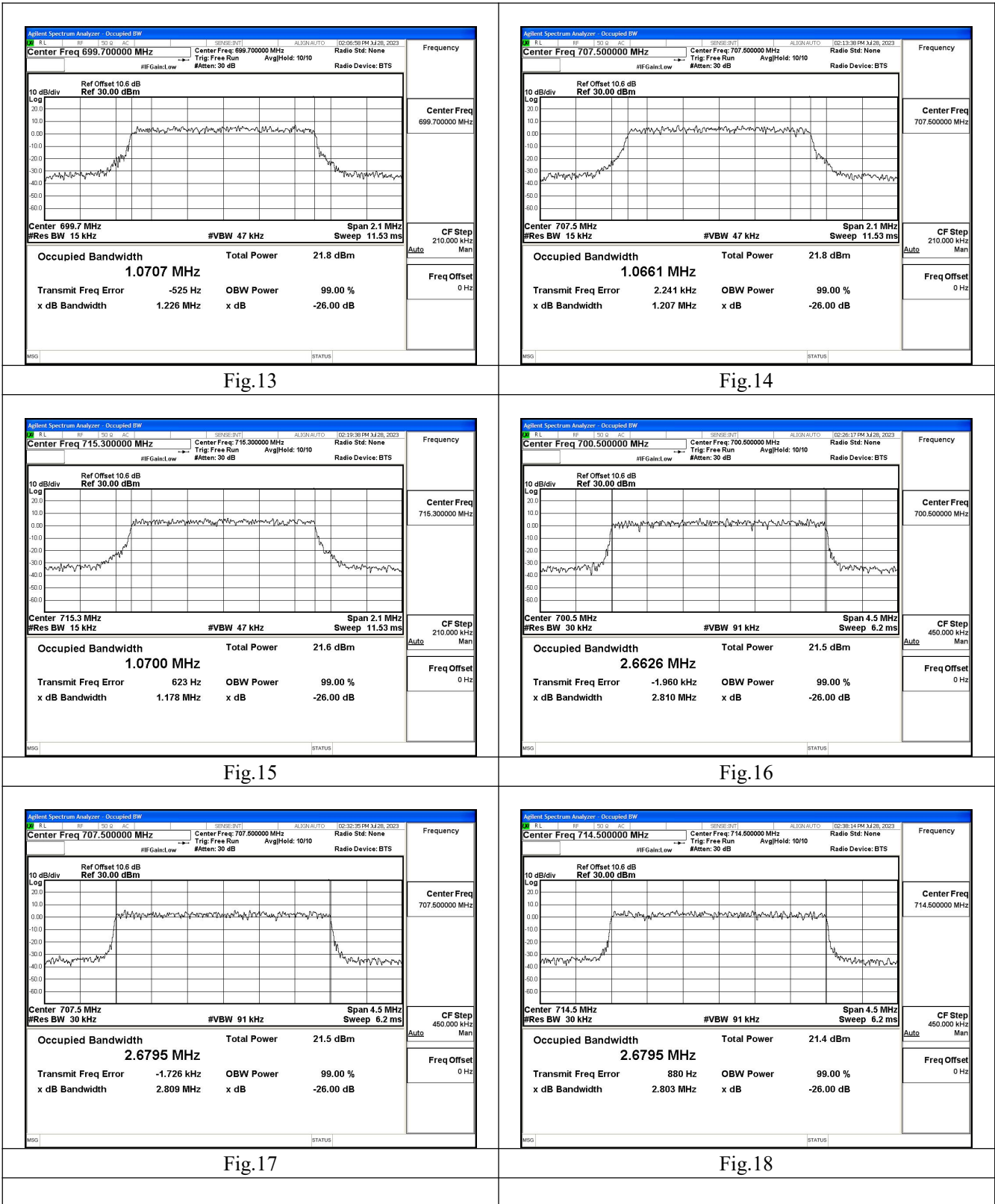


Fig.12

Test Mode: 16QAM



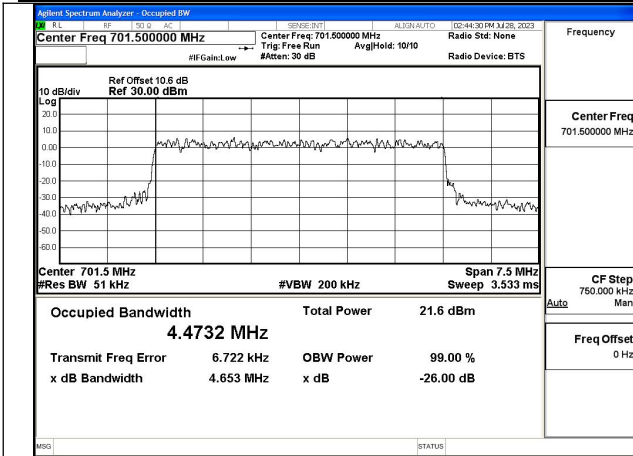


Fig.19

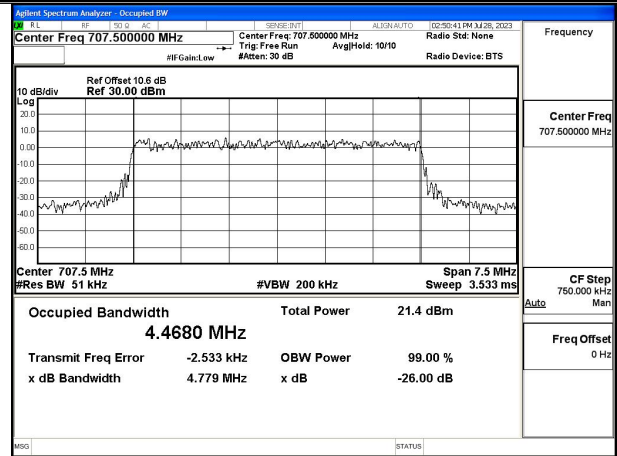


Fig.20

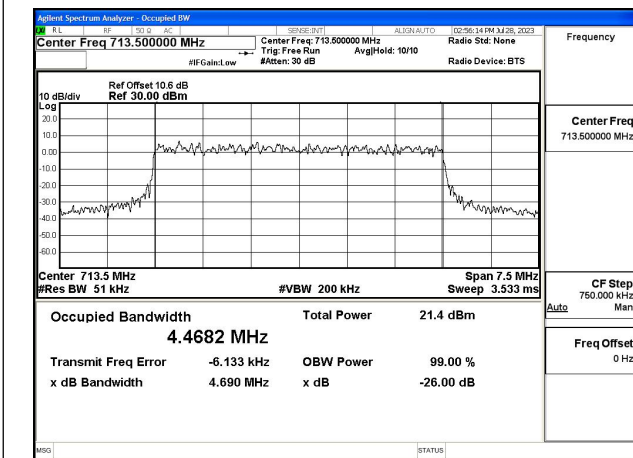


Fig.21

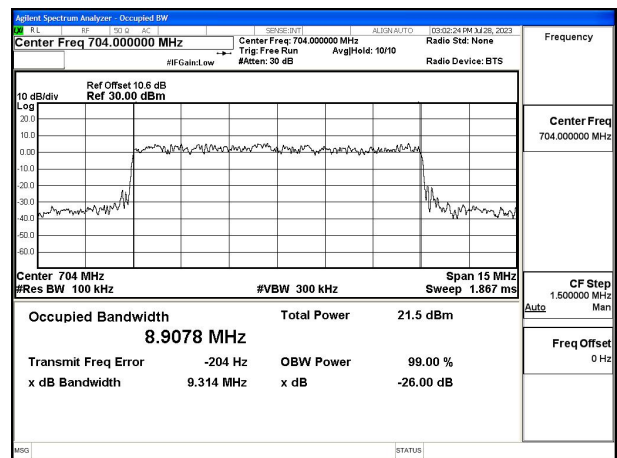


Fig.22

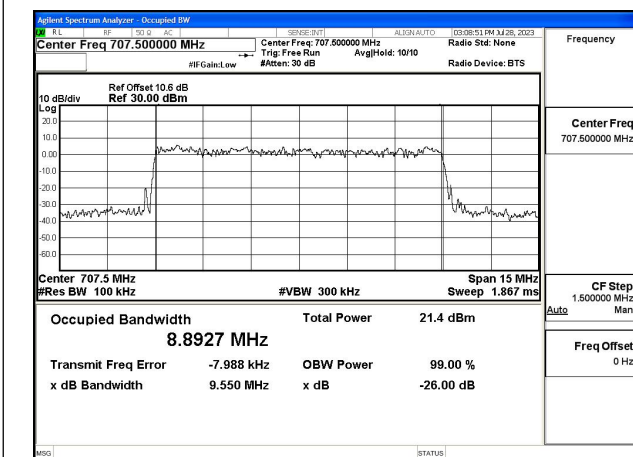


Fig.23

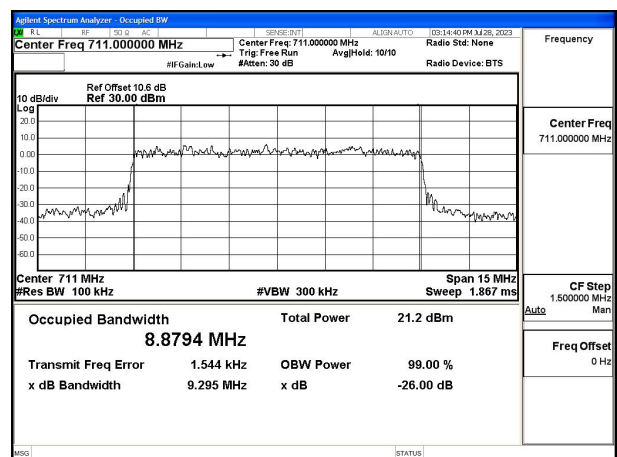


Fig.24

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	699.7	23017	1.4	1	5	Fig.1	Fig.2	---
12	699.7	23017	1.4	6	0	Fig.4	Fig.5	---
12	707.5	23095	1.4	1	5	Fig.7	Fig.8	---
12	707.5	23095	1.4	6	0	Fig.10	Fig.11	---
12	715.3	23173	1.4	1	5	Fig.13	Fig.14	---
12	715.3	23173	1.4	6	0	Fig.16	Fig.17	---
12	700.5	23025	3	1	14	Fig.19	Fig.20	---
12	700.5	23025	3	15	0	Fig.22	Fig.23	---
12	707.5	23095	3	1	14	Fig.25	Fig.26	---
12	707.5	23095	3	15	0	Fig.28	Fig.29	---
12	714.5	23165	3	1	14	Fig.31	Fig.32	---
12	714.5	23165	3	15	0	Fig.34	Fig.35	---
12	701.5	23035	5	1	24	Fig.37	Fig.38	---
12	701.5	23035	5	25	0	Fig.40	Fig.41	---
12	707.5	23095	5	1	24	Fig.43	Fig.44	---
12	707.5	23095	5	25	0	Fig.46	Fig.47	---
12	713.5	23155	5	1	24	Fig.49	Fig.50	---
12	713.5	23155	5	25	0	Fig.52	Fig.53	---
12	704	23060	10	1	49	Fig.55	Fig.56	---
12	704	23060	10	50	0	Fig.58	Fig.59	---
12	707.5	23095	10	1	49	Fig.61	Fig.62	---
12	707.5	23095	10	50	0	Fig.64	Fig.65	---
12	711	23130	10	1	49	Fig.67	Fig.68	---
12	711	23130	10	50	0	Fig.70	Fig.71	---