

## 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	22.59
QPSK	699.7	23017	1.4	1	3	23.67
QPSK	699.7	23017	1.4	1	5	23.43
QPSK	699.7	23017	1.4	3	0	23.60
QPSK	699.7	23017	1.4	3	1	23.64
QPSK	699.7	23017	1.4	3	3	23.51
QPSK	699.7	23017	1.4	6	0	22.64
QPSK	707.5	23095	1.4	1	0	23.75
QPSK	707.5	23095	1.4	1	3	23.63
QPSK	707.5	23095	1.4	1	5	23.49
QPSK	707.5	23095	1.4	3	0	23.64
QPSK	707.5	23095	1.4	3	1	23.65
QPSK	707.5	23095	1.4	3	3	23.66
QPSK	707.5	23095	1.4	6	0	22.73
QPSK	715.3	23173	1.4	1	0	23.65
QPSK	715.3	23173	1.4	1	3	23.69
QPSK	715.3	23173	1.4	1	5	23.65
QPSK	715.3	23173	1.4	3	0	23.68
QPSK	715.3	23173	1.4	3	1	23.69
QPSK	715.3	23173	1.4	3	3	23.56
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	23.25
16QAM	699.7	23017	1.4	1	3	23.26
16QAM	699.7	23017	1.4	1	5	23.19
16QAM	699.7	23017	1.4	3	0	22.68
16QAM	699.7	23017	1.4	3	1	22.85
16QAM	699.7	23017	1.4	3	3	22.62
16QAM	699.7	23017	1.4	6	0	21.64
16QAM	707.5	23095	1.4	1	0	23.37
16QAM	707.5	23095	1.4	1	3	22.94
16QAM	707.5	23095	1.4	1	5	22.80
16QAM	707.5	23095	1.4	3	0	22.93
16QAM	707.5	23095	1.4	3	1	22.96
16QAM	707.5	23095	1.4	3	3	22.81
16QAM	707.5	23095	1.4	6	0	21.72
16QAM	715.3	23173	1.4	1	0	23.23
16QAM	715.3	23173	1.4	1	3	22.87
16QAM	715.3	23173	1.4	1	5	22.90
16QAM	715.3	23173	1.4	3	0	22.80
16QAM	715.3	23173	1.4	3	1	22.74
16QAM	715.3	23173	1.4	3	3	22.72
16QAM	715.3	23173	1.4	6	0	21.86
64QAM	699.7	23017	1.4	1	0	22.58
64QAM	699.7	23017	1.4	1	3	22.86
64QAM	699.7	23017	1.4	1	5	22.68
64QAM	699.7	23017	1.4	3	0	23.03
64QAM	699.7	23017	1.4	3	1	22.90
64QAM	699.7	23017	1.4	3	3	23.06
64QAM	699.7	23017	1.4	6	0	21.64
64QAM	707.5	23095	1.4	1	0	23.19
64QAM	707.5	23095	1.4	1	3	22.63
64QAM	707.5	23095	1.4	1	5	23.27
64QAM	707.5	23095	1.4	3	0	22.64
64QAM	707.5	23095	1.4	3	1	22.98
64QAM	707.5	23095	1.4	3	3	22.41
64QAM	707.5	23095	1.4	6	0	22.04
64QAM	715.3	23173	1.4	1	0	22.71
64QAM	715.3	23173	1.4	1	3	22.67
64QAM	715.3	23173	1.4	1	5	23.06
64QAM	715.3	23173	1.4	3	0	22.72
64QAM	715.3	23173	1.4	3	1	22.89
64QAM	715.3	23173	1.4	3	3	22.96
64QAM	715.3	23173	1.4	6	0	21.60

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.77
QPSK	700.5	23025	3	1	8	23.82
QPSK	700.5	23025	3	1	14	23.64
QPSK	700.5	23025	3	8	0	22.80
QPSK	700.5	23025	3	8	4	22.69
QPSK	700.5	23025	3	8	7	22.70
QPSK	700.5	23025	3	15	0	22.78
QPSK	707.5	23095	3	1	0	23.71
QPSK	707.5	23095	3	1	8	23.77
QPSK	707.5	23095	3	1	14	23.86
QPSK	707.5	23095	3	8	0	22.71
QPSK	707.5	23095	3	8	4	22.71
QPSK	707.5	23095	3	8	7	22.70
QPSK	707.5	23095	3	15	0	22.68
QPSK	714.5	23165	3	1	0	23.79
QPSK	714.5	23165	3	1	8	23.74
QPSK	714.5	23165	3	1	14	23.68
QPSK	714.5	23165	3	8	0	22.74
QPSK	714.5	23165	3	8	4	22.82
QPSK	714.5	23165	3	8	7	22.77
QPSK	714.5	23165	3	15	0	22.67

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	23.26
16QAM	700.5	23025	3	1	8	23.06
16QAM	700.5	23025	3	1	14	22.49
16QAM	700.5	23025	3	8	0	21.69
16QAM	700.5	23025	3	8	4	21.81
16QAM	700.5	23025	3	8	7	21.41
16QAM	700.5	23025	3	15	0	21.76
16QAM	707.5	23095	3	1	0	22.76
16QAM	707.5	23095	3	1	8	23.06
16QAM	707.5	23095	3	1	14	23.21
16QAM	707.5	23095	3	8	0	21.67
16QAM	707.5	23095	3	8	4	21.89
16QAM	707.5	23095	3	8	7	21.99
16QAM	707.5	23095	3	15	0	21.69
16QAM	714.5	23165	3	1	0	22.81
16QAM	714.5	23165	3	1	8	22.76
16QAM	714.5	23165	3	1	14	22.94
16QAM	714.5	23165	3	8	0	21.71
16QAM	714.5	23165	3	8	4	21.97
16QAM	714.5	23165	3	8	7	21.74
16QAM	714.5	23165	3	15	0	21.88
64QAM	700.5	23025	3	1	0	22.58
64QAM	700.5	23025	3	1	8	23.65
64QAM	700.5	23025	3	1	14	23.05
64QAM	700.5	23025	3	8	0	21.73
64QAM	700.5	23025	3	8	4	21.60
64QAM	700.5	23025	3	8	7	21.74
64QAM	700.5	23025	3	15	0	21.82
64QAM	707.5	23095	3	1	0	22.48
64QAM	707.5	23095	3	1	8	23.77
64QAM	707.5	23095	3	1	14	23.04
64QAM	707.5	23095	3	8	0	21.72
64QAM	707.5	23095	3	8	4	21.85
64QAM	707.5	23095	3	8	7	21.73
64QAM	707.5	23095	3	15	0	21.66
64QAM	714.5	23165	3	1	0	22.86
64QAM	714.5	23165	3	1	8	23.47
64QAM	714.5	23165	3	1	14	22.90
64QAM	714.5	23165	3	8	0	21.70
64QAM	714.5	23165	3	8	4	21.90
64QAM	714.5	23165	3	8	7	21.72
64QAM	714.5	23165	3	15	0	21.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.64
QPSK	701.5	23035	5	1	12	23.72
QPSK	701.5	23035	5	1	24	23.47
QPSK	701.5	23035	5	12	0	22.76
QPSK	701.5	23035	5	12	7	22.79
QPSK	701.5	23035	5	12	13	22.74
QPSK	701.5	23035	5	25	0	22.68
QPSK	707.5	23095	5	1	0	23.63
QPSK	707.5	23095	5	1	12	23.76
QPSK	707.5	23095	5	1	24	23.66
QPSK	707.5	23095	5	12	0	22.78
QPSK	707.5	23095	5	12	7	22.65
QPSK	707.5	23095	5	12	13	22.85
QPSK	707.5	23095	5	25	0	22.73
QPSK	713.5	23155	5	1	0	23.75
QPSK	713.5	23155	5	1	12	23.56
QPSK	713.5	23155	5	1	24	23.68
QPSK	713.5	23155	5	12	0	22.75
QPSK	713.5	23155	5	12	7	22.87
QPSK	713.5	23155	5	12	13	22.64
QPSK	713.5	23155	5	25	0	22.64

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.96
16QAM	701.5	23035	5	1	12	23.08
16QAM	701.5	23035	5	1	24	22.76
16QAM	701.5	23035	5	12	0	21.72
16QAM	701.5	23035	5	12	7	21.76
16QAM	701.5	23035	5	12	13	21.73
16QAM	701.5	23035	5	25	0	21.81
16QAM	707.5	23095	5	1	0	22.92
16QAM	707.5	23095	5	1	12	23.26
16QAM	707.5	23095	5	1	24	23.01
16QAM	707.5	23095	5	12	0	21.72
16QAM	707.5	23095	5	12	7	21.73
16QAM	707.5	23095	5	12	13	21.74
16QAM	707.5	23095	5	25	0	21.74
16QAM	713.5	23155	5	1	0	23.18
16QAM	713.5	23155	5	1	12	23.27
16QAM	713.5	23155	5	1	24	22.87
16QAM	713.5	23155	5	12	0	21.78
16QAM	713.5	23155	5	12	7	21.96
16QAM	713.5	23155	5	12	13	21.73
16QAM	713.5	23155	5	25	0	21.76
64QAM	701.5	23035	5	1	0	23.17
64QAM	701.5	23035	5	1	12	23.52
64QAM	701.5	23035	5	1	24	22.87
64QAM	701.5	23035	5	12	0	21.85
64QAM	701.5	23035	5	12	7	21.59
64QAM	701.5	23035	5	12	13	21.69
64QAM	701.5	23035	5	25	0	21.65
64QAM	707.5	23095	5	1	0	22.77
64QAM	707.5	23095	5	1	12	23.97
64QAM	707.5	23095	5	1	24	23.61
64QAM	707.5	23095	5	12	0	21.80
64QAM	707.5	23095	5	12	7	21.87
64QAM	707.5	23095	5	12	13	21.61
64QAM	707.5	23095	5	25	0	21.63
64QAM	713.5	23155	5	1	0	22.58
64QAM	713.5	23155	5	1	12	23.52
64QAM	713.5	23155	5	1	24	23.49
64QAM	713.5	23155	5	12	0	21.86
64QAM	713.5	23155	5	12	7	21.74
64QAM	713.5	23155	5	12	13	21.73
64QAM	713.5	23155	5	25	0	21.73

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.73
QPSK	704	23060	10	1	25	23.72
QPSK	704	23060	10	1	49	23.59
QPSK	704	23060	10	25	0	22.77
QPSK	704	23060	10	25	12	22.75
QPSK	704	23060	10	25	25	22.84
QPSK	704	23060	10	50	0	22.75
QPSK	707.5	23095	10	1	0	23.62
QPSK	707.5	23095	10	1	25	23.69
QPSK	707.5	23095	10	1	49	23.75
QPSK	707.5	23095	10	25	0	22.77
QPSK	707.5	23095	10	25	12	22.78
QPSK	707.5	23095	10	25	25	22.84
QPSK	707.5	23095	10	50	0	22.71
QPSK	711	23130	10	1	0	23.78
QPSK	711	23130	10	1	25	23.92
QPSK	711	23130	10	1	49	23.62
QPSK	711	23130	10	25	0	22.83
QPSK	711	23130	10	25	12	22.85
QPSK	711	23130	10	25	25	22.77
QPSK	711	23130	10	50	0	22.79

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	23.04
16QAM	704	23060	10	1	25	22.97
16QAM	704	23060	10	1	49	23.00
16QAM	704	23060	10	25	0	21.86
16QAM	704	23060	10	25	12	21.72
16QAM	704	23060	10	25	25	21.94
16QAM	704	23060	10	50	0	21.86
16QAM	707.5	23095	10	1	0	23.02
16QAM	707.5	23095	10	1	25	22.79
16QAM	707.5	23095	10	1	49	22.91
16QAM	707.5	23095	10	25	0	21.83
16QAM	707.5	23095	10	25	12	21.76
16QAM	707.5	23095	10	25	25	21.86
16QAM	707.5	23095	10	50	0	21.89
16QAM	711	23130	10	1	0	23.08
16QAM	711	23130	10	1	25	22.71
16QAM	711	23130	10	1	49	23.13
16QAM	711	23130	10	25	0	21.67
16QAM	711	23130	10	25	12	21.89
16QAM	711	23130	10	25	25	21.84
16QAM	711	23130	10	50	0	22.00
64QAM	704	23060	10	1	0	22.70
64QAM	704	23060	10	1	25	22.81
64QAM	704	23060	10	1	49	23.54
64QAM	704	23060	10	25	0	21.62
64QAM	704	23060	10	25	12	21.75
64QAM	704	23060	10	25	25	21.56
64QAM	704	23060	10	50	0	21.88
64QAM	707.5	23095	10	1	0	22.93
64QAM	707.5	23095	10	1	25	22.59
64QAM	707.5	23095	10	1	49	22.89
64QAM	707.5	23095	10	25	0	21.72
64QAM	707.5	23095	10	25	12	21.90
64QAM	707.5	23095	10	25	25	21.79
64QAM	707.5	23095	10	50	0	21.80
64QAM	711	23130	10	1	0	23.13
64QAM	711	23130	10	1	25	23.20
64QAM	711	23130	10	1	49	22.16
64QAM	711	23130	10	25	0	21.86
64QAM	711	23130	10	25	12	21.74
64QAM	711	23130	10	25	25	21.80
64QAM	711	23130	10	50	0	21.91



## 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	1.08	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.07	Fig.3
12	QPSK	700.5	23025	3	15	0	2.66	Fig.4
12	QPSK	707.5	23095	3	15	0	2.67	Fig.5
12	QPSK	714.5	23165	3	15	0	2.68	Fig.6
12	QPSK	701.5	23035	5	25	0	4.46	Fig.7
12	QPSK	707.5	23095	5	25	0	4.47	Fig.8
12	QPSK	713.5	23155	5	25	0	4.47	Fig.9
12	QPSK	704	23060	10	50	0	8.92	Fig.10
12	QPSK	707.5	23095	10	50	0	8.91	Fig.11
12	QPSK	711	23130	10	50	0	8.90	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	1.08	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.08	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	2.68	Fig.17
12	16QAM	714.5	23165	3	15	0	2.67	Fig.18
12	16QAM	701.5	23035	5	25	0	4.45	Fig.19
12	16QAM	707.5	23095	5	25	0	4.46	Fig.20
12	16QAM	713.5	23155	5	25	0	4.47	Fig.21
12	16QAM	704	23060	10	50	0	8.93	Fig.22
12	16QAM	707.5	23095	10	50	0	8.90	Fig.23
12	16QAM	711	23130	10	50	0	8.87	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	2.68	Fig.29
12	64QAM	714.5	23165	3	15	0	2.68	Fig.30
12	64QAM	701.5	23035	5	25	0	4.46	Fig.31
12	64QAM	707.5	23095	5	25	0	4.45	Fig.32
12	64QAM	713.5	23155	5	25	0	4.46	Fig.33
12	64QAM	704	23060	10	50	0	8.91	Fig.34
12	64QAM	707.5	23095	10	50	0	8.91	Fig.35
12	64QAM	711	23130	10	50	0	8.89	Fig.36

Test Mode: QPSK

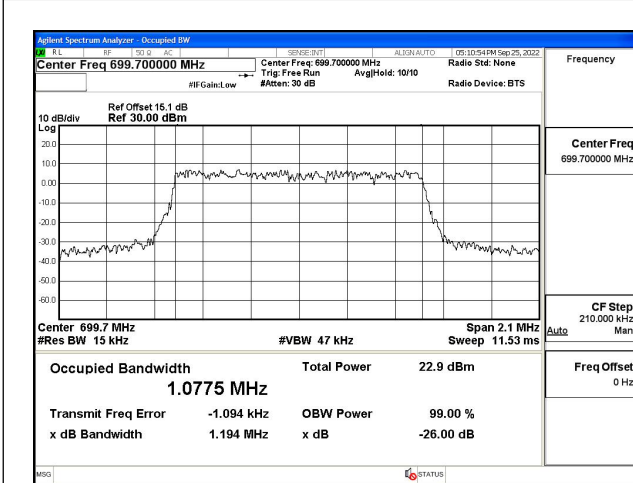


Fig.1

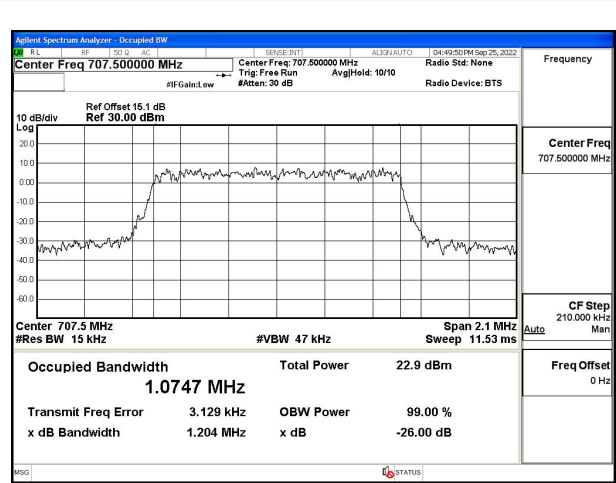


Fig.2

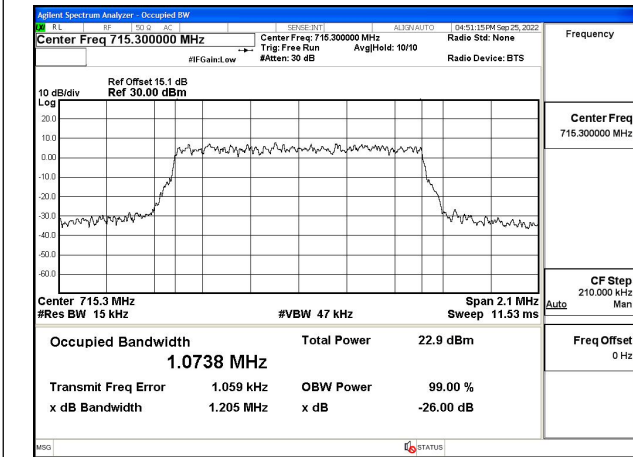


Fig.3

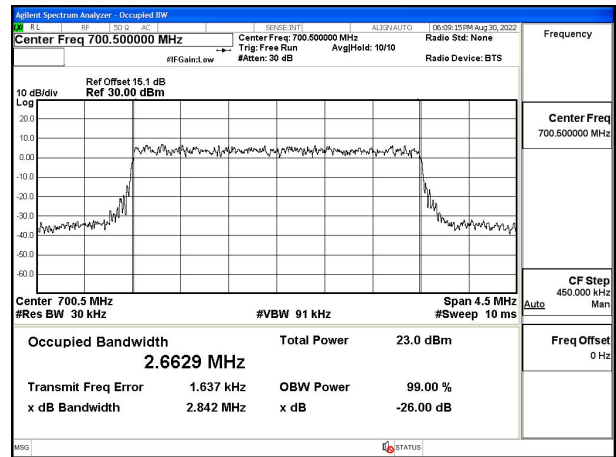


Fig.4

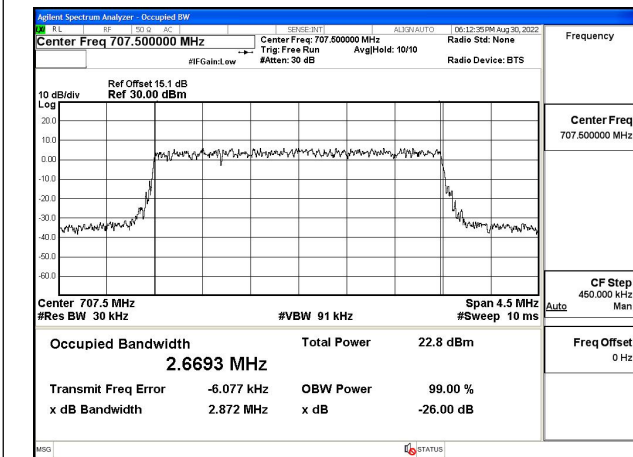


Fig.5

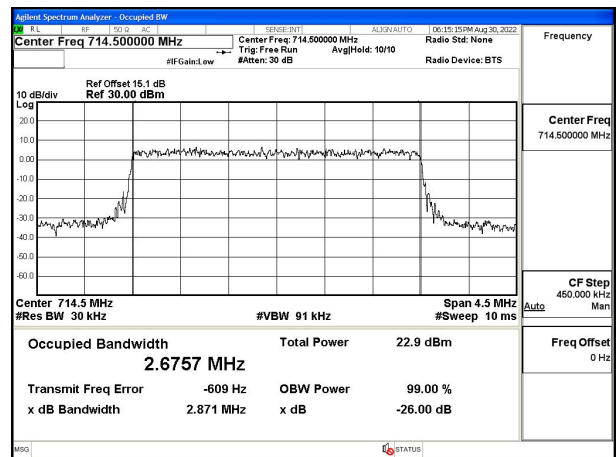


Fig.6

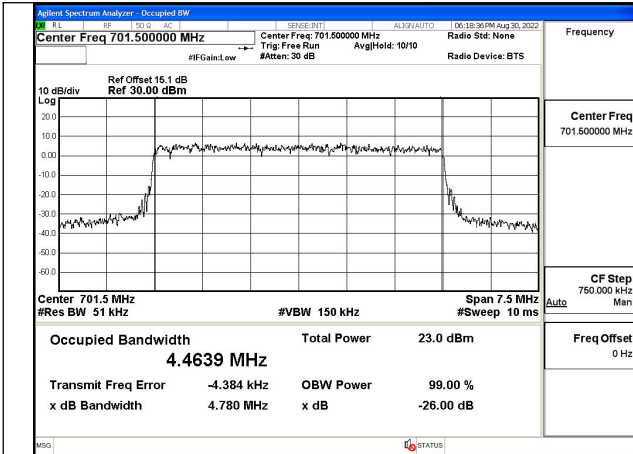


Fig.7

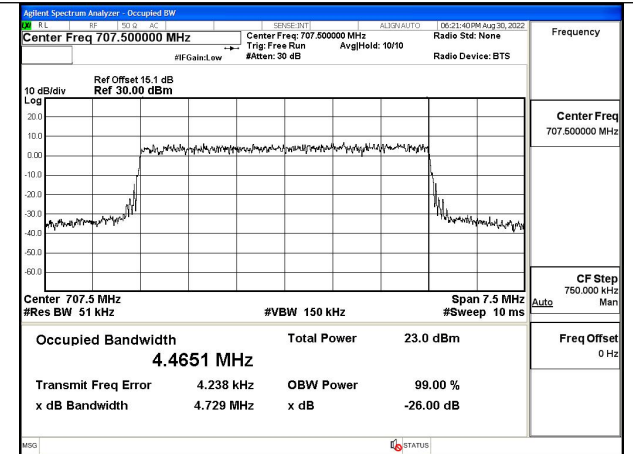


Fig.8

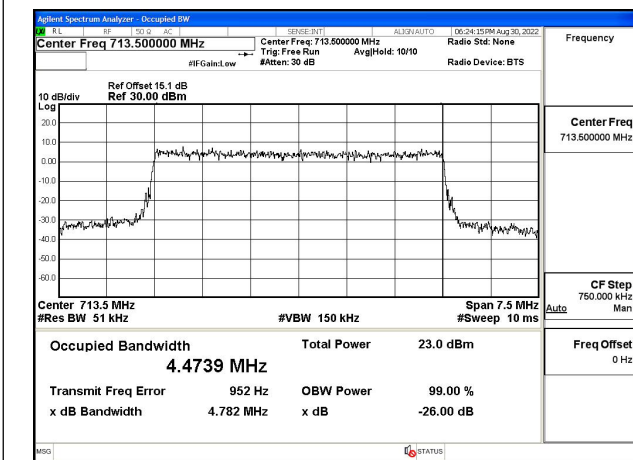


Fig.9

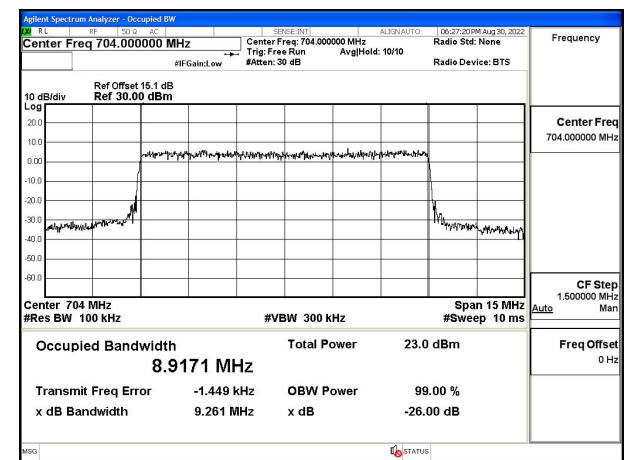


Fig.10

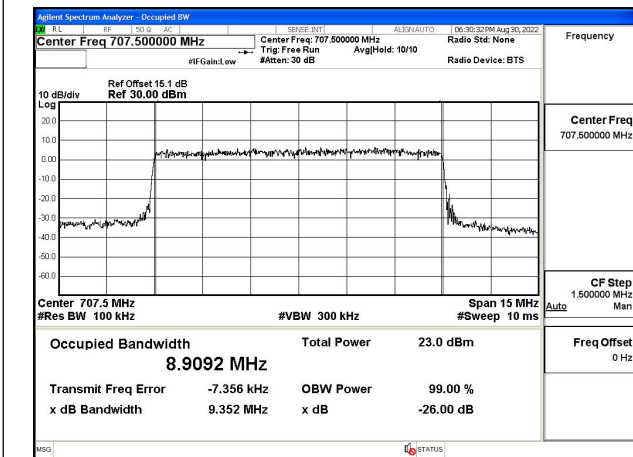


Fig.11

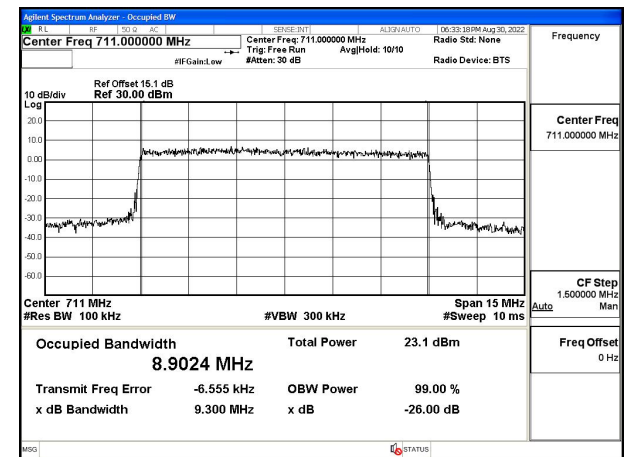


Fig.12

Test Mode: 16QAM

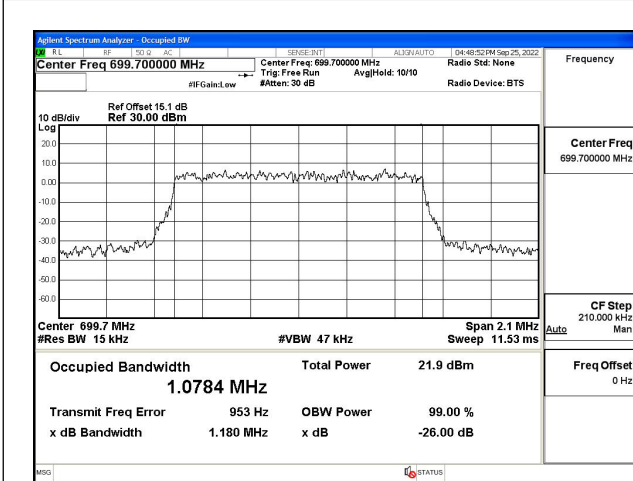


Fig.13

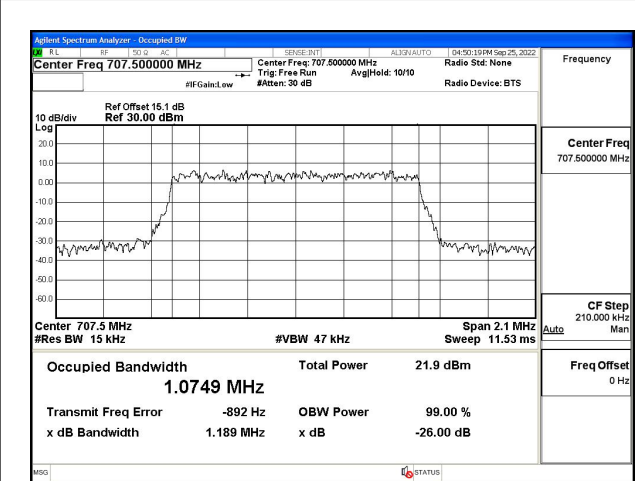


Fig.14

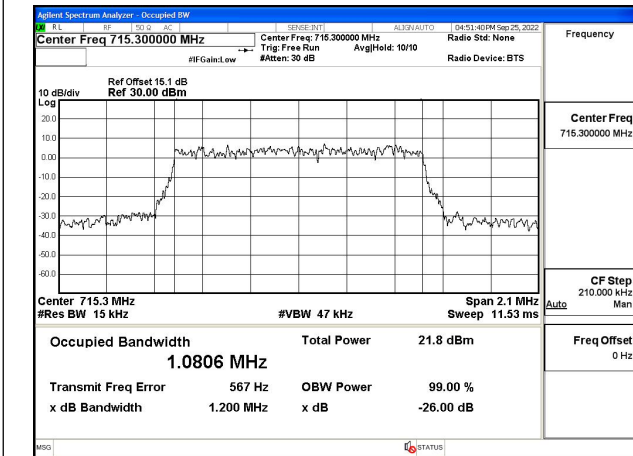


Fig.15

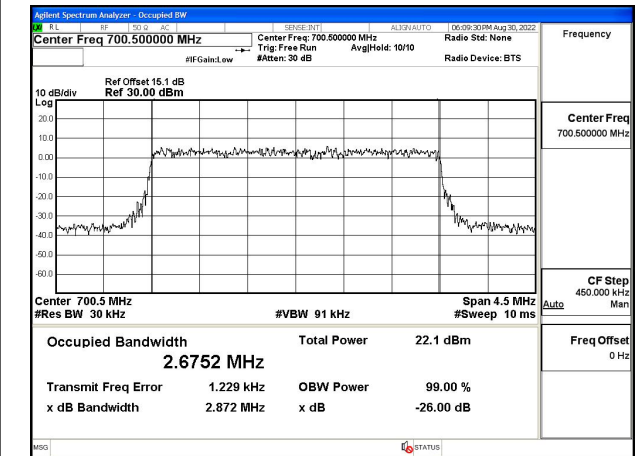


Fig.16

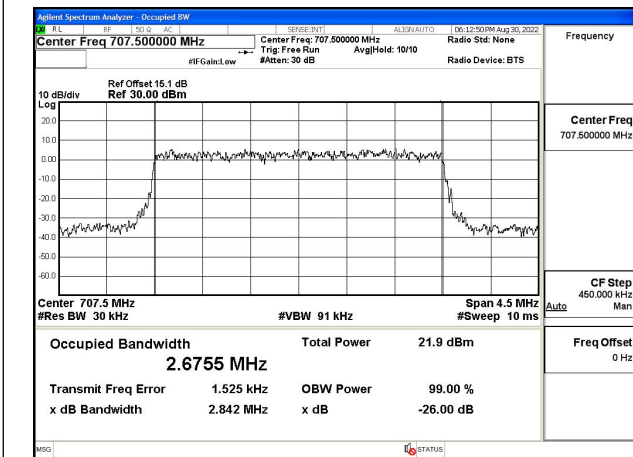


Fig.17

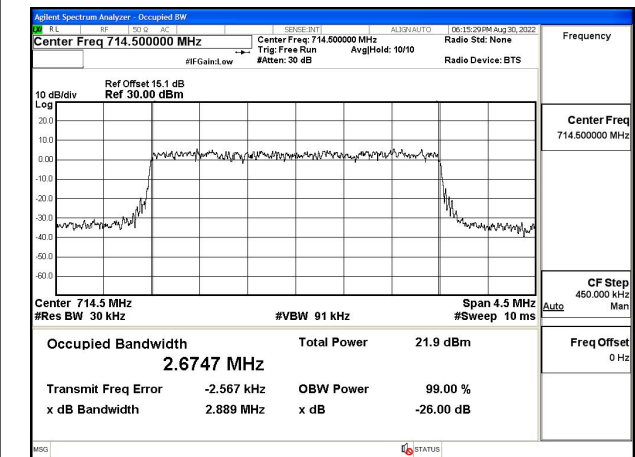


Fig.18

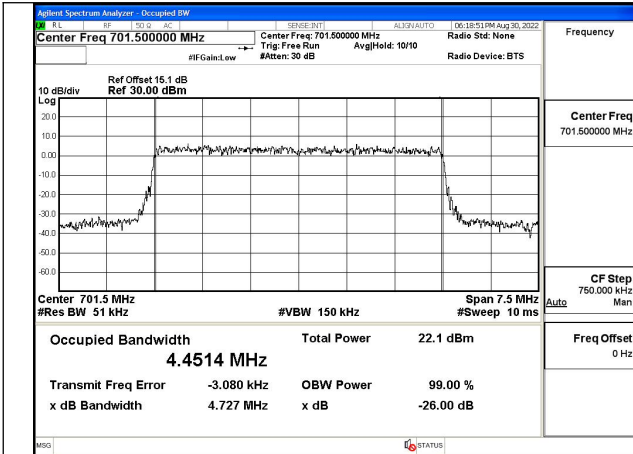


Fig.19

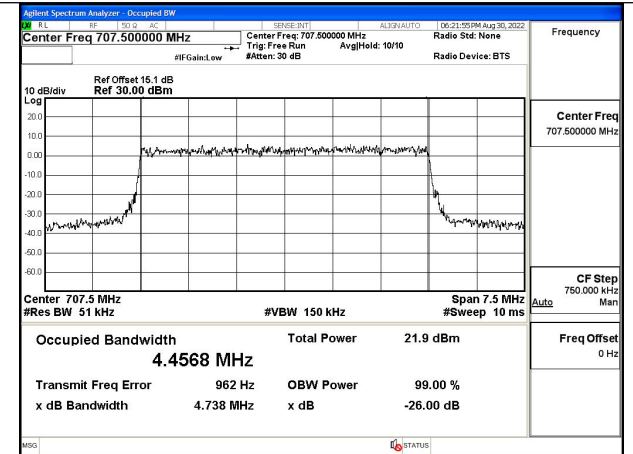


Fig.20

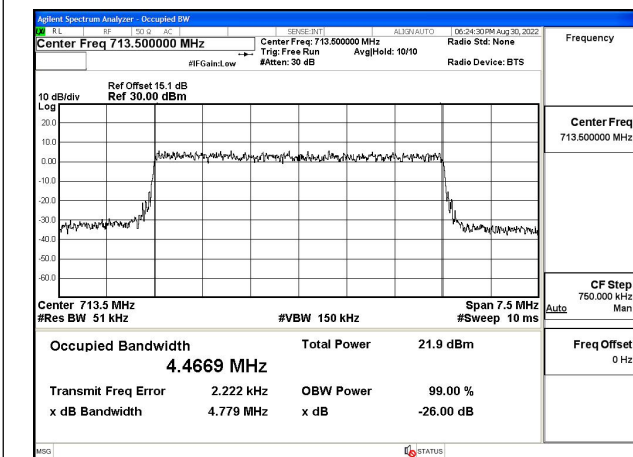


Fig.21

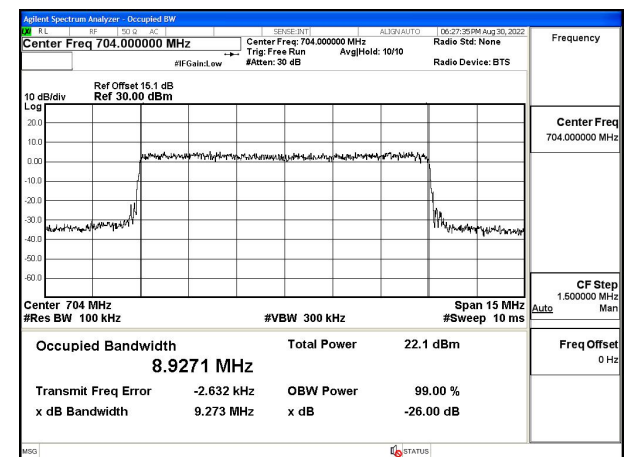


Fig.22

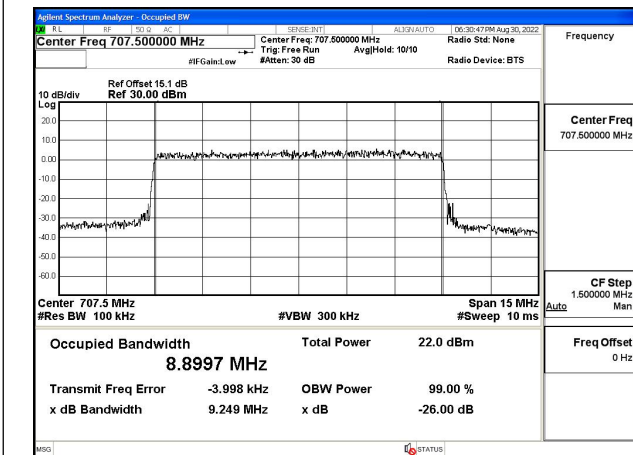


Fig.23

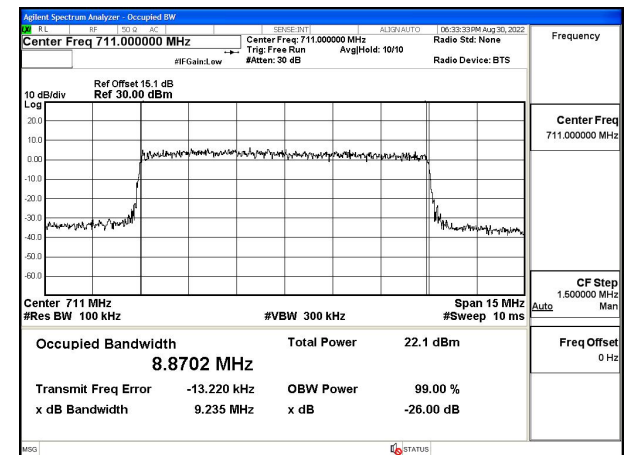


Fig.24

Test Mode: 64QAM

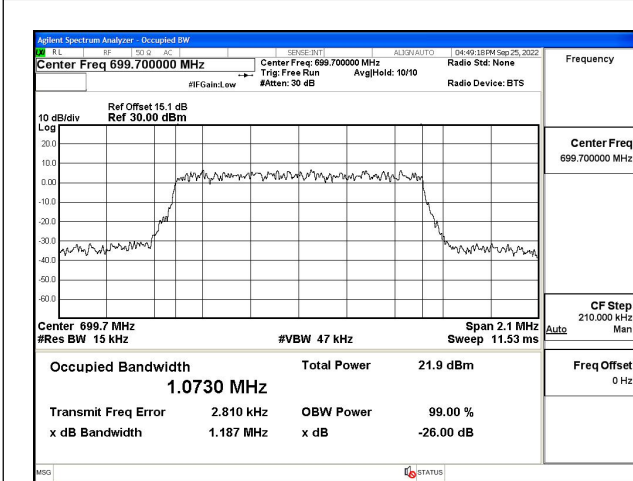


Fig.25

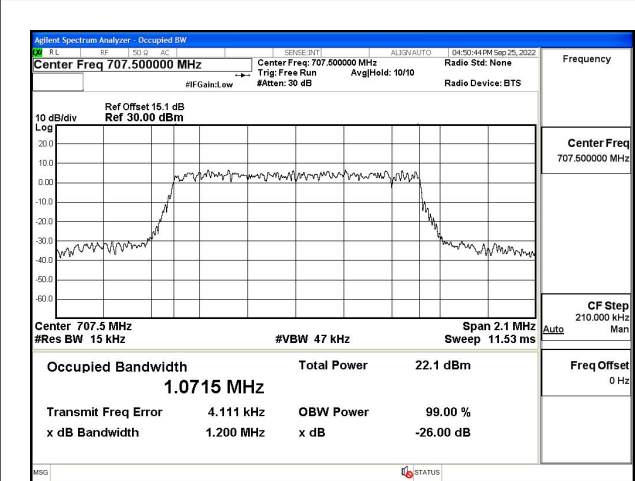


Fig.26

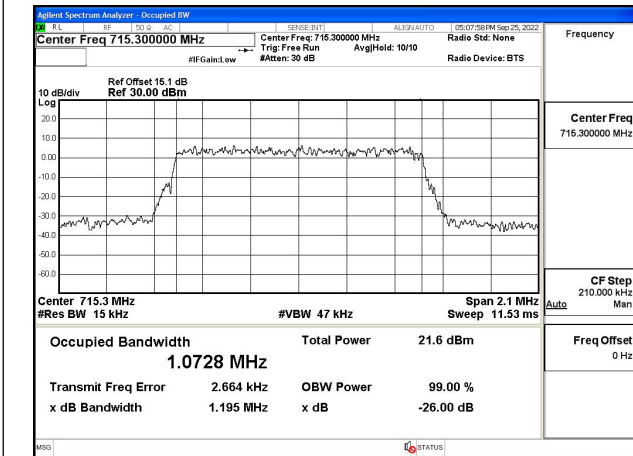


Fig.27

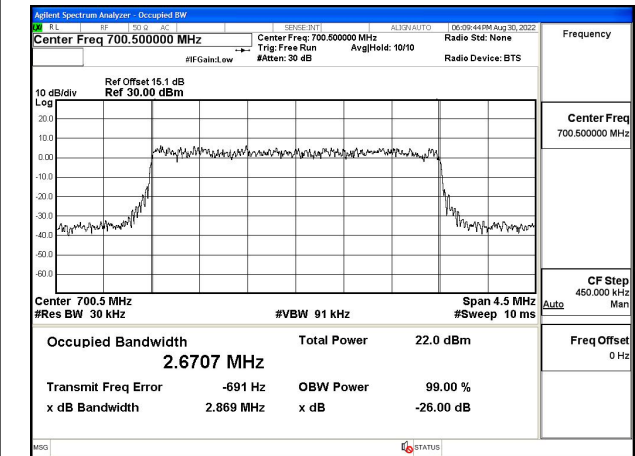


Fig.28

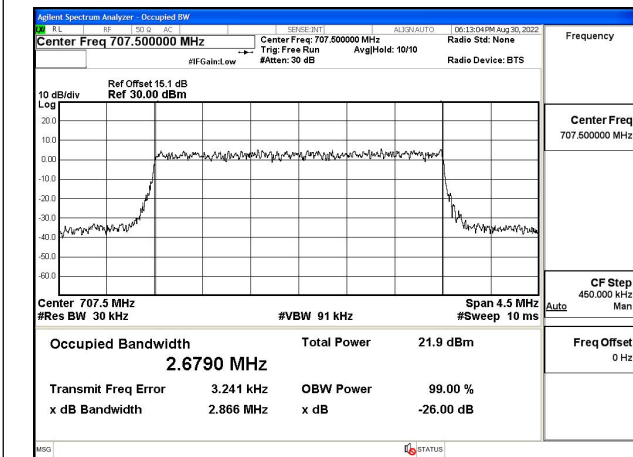


Fig.29

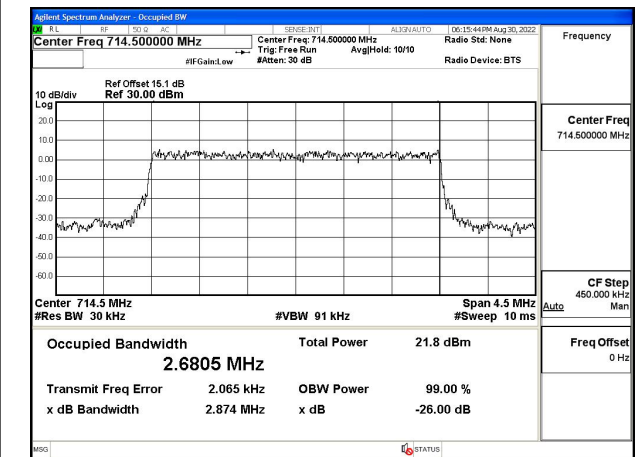


Fig.30

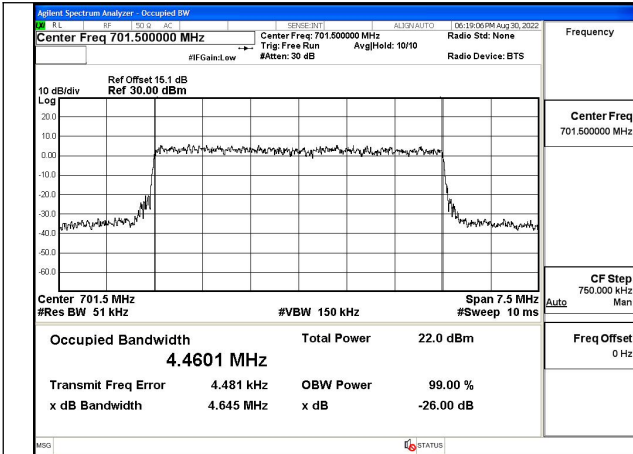


Fig.31

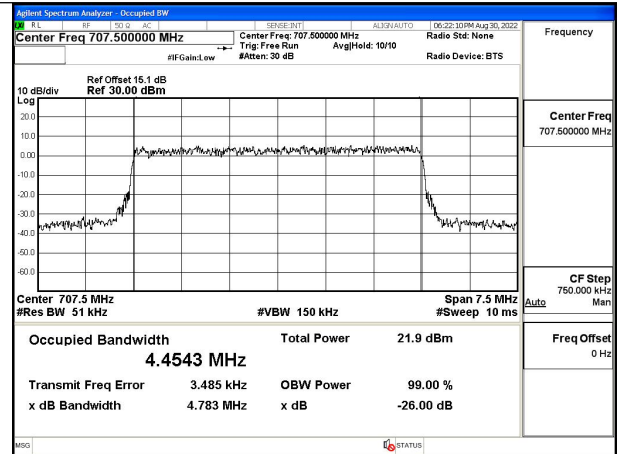


Fig.32

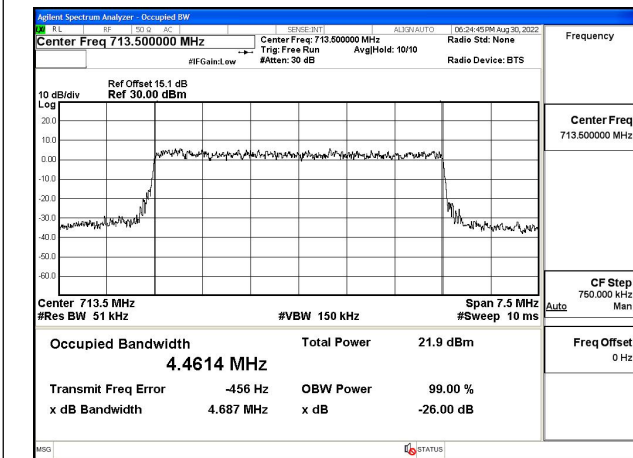


Fig.33

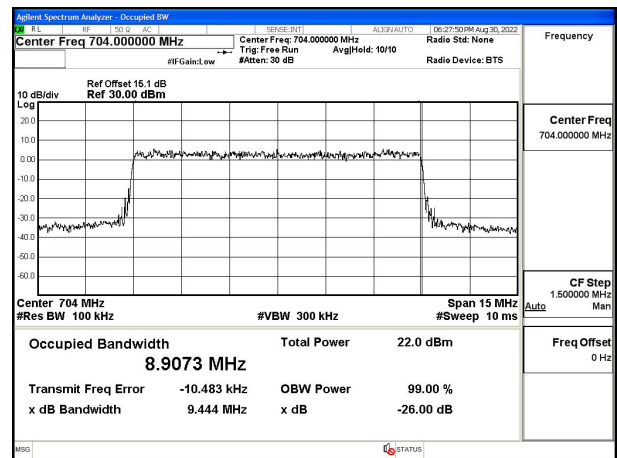


Fig.34

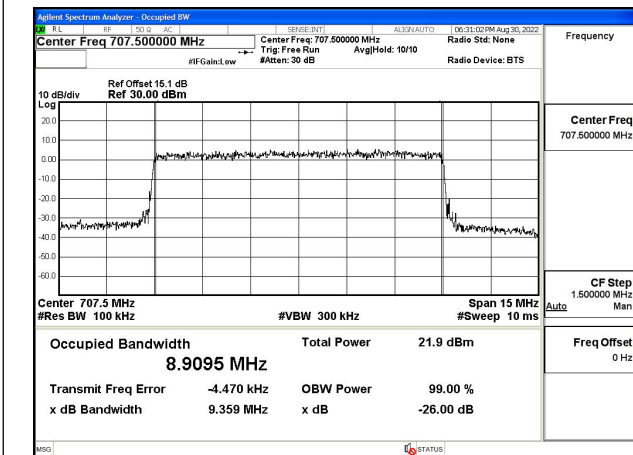


Fig.35

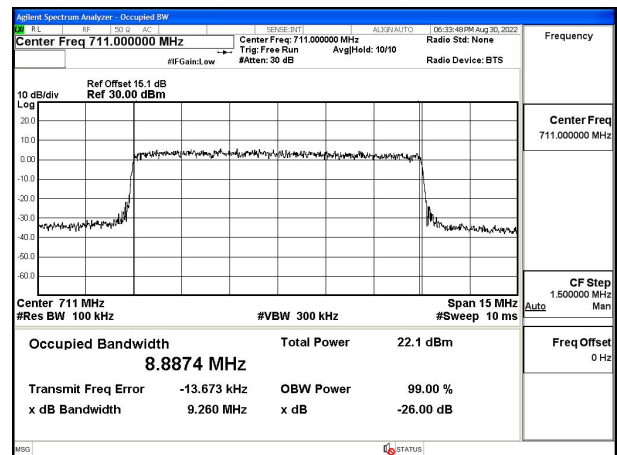


Fig.36

### 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	1.19	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.20	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.21	Fig.3
12	QPSK	700.5	23025	3	15	0	2.84	Fig.4
12	QPSK	707.5	23095	3	15	0	2.87	Fig.5
12	QPSK	714.5	23165	3	15	0	2.87	Fig.6
12	QPSK	701.5	23035	5	25	0	4.78	Fig.7
12	QPSK	707.5	23095	5	25	0	4.73	Fig.8
12	QPSK	713.5	23155	5	25	0	4.78	Fig.9
12	QPSK	704	23060	10	50	0	9.26	Fig.10
12	QPSK	707.5	23095	10	50	0	9.35	Fig.11
12	QPSK	711	23130	10	50	0	9.30	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	1.19	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.20	Fig.15
12	16QAM	700.5	23025	3	15	0	2.87	Fig.16
12	16QAM	707.5	23095	3	15	0	2.84	Fig.17
12	16QAM	714.5	23165	3	15	0	2.89	Fig.18
12	16QAM	701.5	23035	5	25	0	4.73	Fig.19
12	16QAM	707.5	23095	5	25	0	4.74	Fig.20
12	16QAM	713.5	23155	5	25	0	4.78	Fig.21
12	16QAM	704	23060	10	50	0	9.27	Fig.22
12	16QAM	707.5	23095	10	50	0	9.25	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	1.19	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.20	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.20	Fig.27
12	64QAM	700.5	23025	3	15	0	2.87	Fig.28
12	64QAM	707.5	23095	3	15	0	2.87	Fig.29
12	64QAM	714.5	23165	3	15	0	2.87	Fig.30
12	64QAM	701.5	23035	5	25	0	4.64	Fig.31
12	64QAM	707.5	23095	5	25	0	4.78	Fig.32
12	64QAM	713.5	23155	5	25	0	4.69	Fig.33
12	64QAM	704	23060	10	50	0	9.44	Fig.34
12	64QAM	707.5	23095	10	50	0	9.36	Fig.35
12	64QAM	711	23130	10	50	0	9.26	Fig.36



Test Mode: QPSK

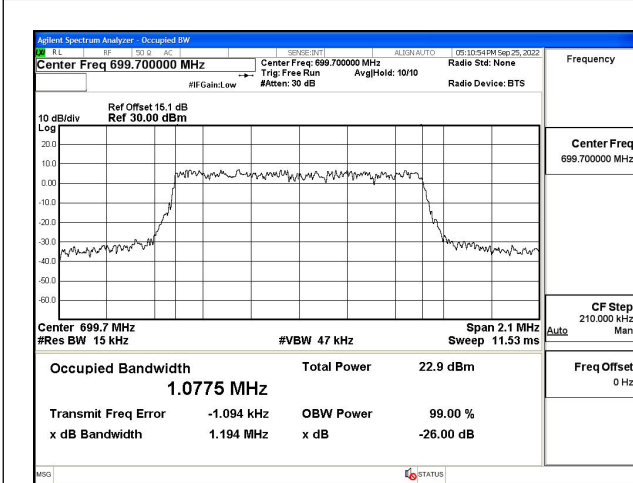


Fig.1

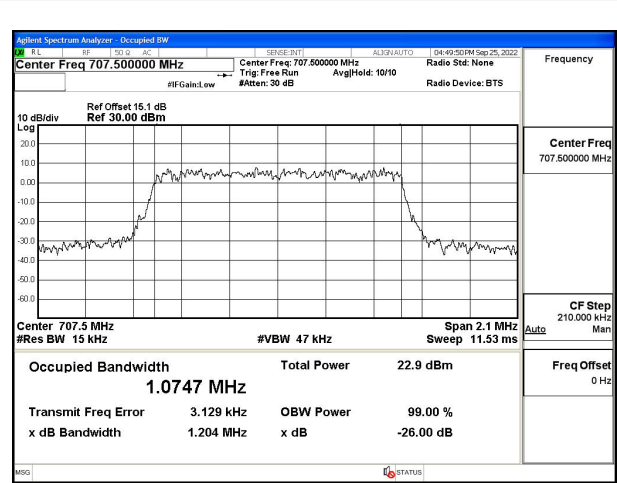


Fig.2

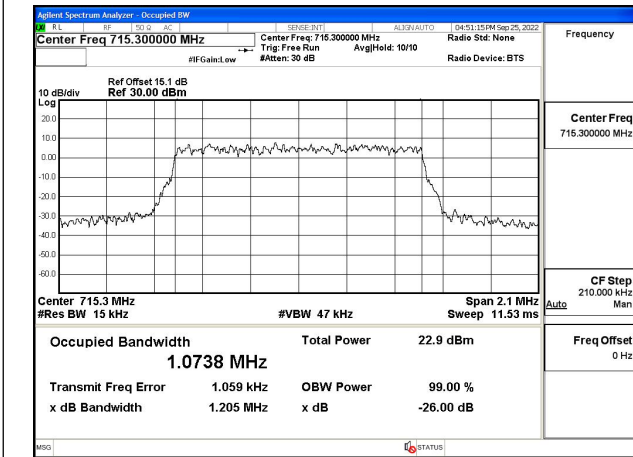


Fig.3

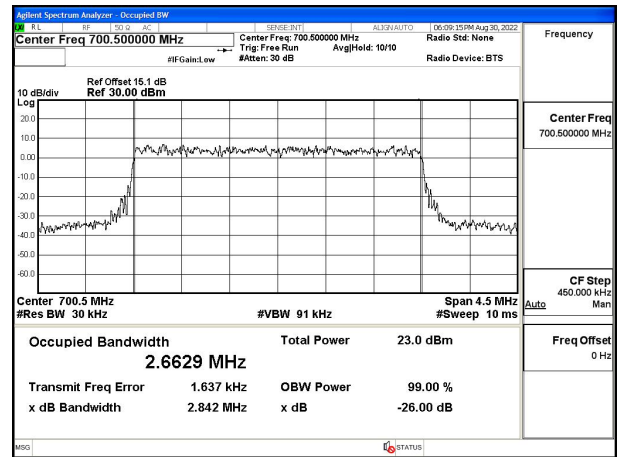


Fig.4

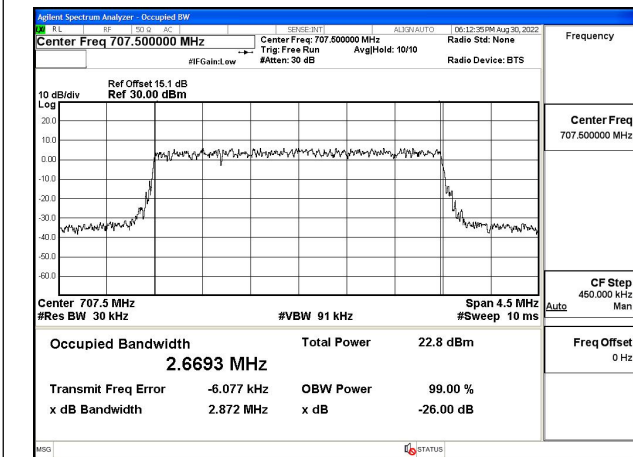


Fig.5

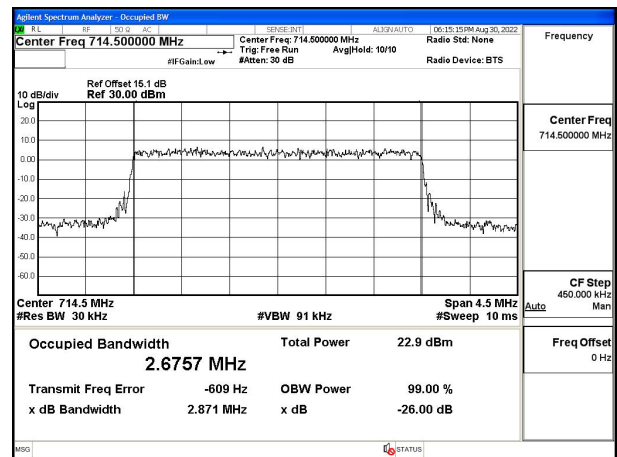


Fig.6