

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	21.59
QPSK	824.7	20407	1.4	1	3	21.54
QPSK	824.7	20407	1.4	1	5	21.61
QPSK	824.7	20407	1.4	3	0	21.50
QPSK	824.7	20407	1.4	3	1	21.56
QPSK	824.7	20407	1.4	3	3	21.57
QPSK	824.7	20407	1.4	6	0	20.52
QPSK	836.5	20525	1.4	1	0	21.54
QPSK	836.5	20525	1.4	1	3	21.65
QPSK	836.5	20525	1.4	1	5	21.44
QPSK	836.5	20525	1.4	3	0	21.59
QPSK	836.5	20525	1.4	3	1	21.62
QPSK	836.5	20525	1.4	3	3	21.52
QPSK	836.5	20525	1.4	6	0	20.54
QPSK	848.3	20643	1.4	1	0	21.63
QPSK	848.3	20643	1.4	1	3	21.64
QPSK	848.3	20643	1.4	1	5	21.62
QPSK	848.3	20643	1.4	3	0	21.59
QPSK	848.3	20643	1.4	3	1	21.73
QPSK	848.3	20643	1.4	3	3	21.63
QPSK	848.3	20643	1.4	6	0	20.70

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	20.59
16QAM	824.7	20407	1.4	1	3	20.66
16QAM	824.7	20407	1.4	1	5	20.57
16QAM	824.7	20407	1.4	3	0	20.65
16QAM	824.7	20407	1.4	3	1	20.46
16QAM	824.7	20407	1.4	3	3	20.61
16QAM	824.7	20407	1.4	6	0	19.59
16QAM	836.5	20525	1.4	1	0	20.68
16QAM	836.5	20525	1.4	1	3	20.44
16QAM	836.5	20525	1.4	1	5	20.60
16QAM	836.5	20525	1.4	3	0	20.75
16QAM	836.5	20525	1.4	3	1	20.75
16QAM	836.5	20525	1.4	3	3	20.82
16QAM	836.5	20525	1.4	6	0	19.56
16QAM	848.3	20643	1.4	1	0	21.35
16QAM	848.3	20643	1.4	1	3	20.85
16QAM	848.3	20643	1.4	1	5	20.92
16QAM	848.3	20643	1.4	3	0	20.64
16QAM	848.3	20643	1.4	3	1	20.69
16QAM	848.3	20643	1.4	3	3	20.50
16QAM	848.3	20643	1.4	6	0	19.74

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	21.55
QPSK	825.5	20415	3	1	8	21.62
QPSK	825.5	20415	3	1	14	21.55
QPSK	825.5	20415	3	8	0	20.66
QPSK	825.5	20415	3	8	4	20.62
QPSK	825.5	20415	3	8	7	20.61
QPSK	825.5	20415	3	15	0	20.63
QPSK	836.5	20525	3	1	0	21.62
QPSK	836.5	20525	3	1	8	21.65
QPSK	836.5	20525	3	1	14	21.60
QPSK	836.5	20525	3	8	0	20.66
QPSK	836.5	20525	3	8	4	20.62
QPSK	836.5	20525	3	8	7	20.67
QPSK	836.5	20525	3	15	0	20.54
QPSK	847.5	20635	3	1	0	21.61
QPSK	847.5	20635	3	1	8	21.76
QPSK	847.5	20635	3	1	14	21.66
QPSK	847.5	20635	3	8	0	20.76
QPSK	847.5	20635	3	8	4	20.72
QPSK	847.5	20635	3	8	7	20.67
QPSK	847.5	20635	3	15	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	20.54
16QAM	825.5	20415	3	1	8	20.51
16QAM	825.5	20415	3	1	14	20.63
16QAM	825.5	20415	3	8	0	19.73
16QAM	825.5	20415	3	8	4	19.74
16QAM	825.5	20415	3	8	7	19.63
16QAM	825.5	20415	3	15	0	19.58
16QAM	836.5	20525	3	1	0	20.86
16QAM	836.5	20525	3	1	8	20.72
16QAM	836.5	20525	3	1	14	20.55
16QAM	836.5	20525	3	8	0	19.81
16QAM	836.5	20525	3	8	4	19.78
16QAM	836.5	20525	3	8	7	19.63
16QAM	836.5	20525	3	15	0	19.72
16QAM	847.5	20635	3	1	0	20.89
16QAM	847.5	20635	3	1	8	20.91
16QAM	847.5	20635	3	1	14	20.93
16QAM	847.5	20635	3	8	0	19.75
16QAM	847.5	20635	3	8	4	19.92
16QAM	847.5	20635	3	8	7	19.73
16QAM	847.5	20635	3	15	0	19.80

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	21.55
QPSK	826.5	20425	5	1	12	21.65
QPSK	826.5	20425	5	1	24	21.59
QPSK	826.5	20425	5	12	0	20.65
QPSK	826.5	20425	5	12	7	20.62
QPSK	826.5	20425	5	12	13	20.54
QPSK	826.5	20425	5	25	0	20.68
QPSK	836.5	20525	5	1	0	21.63
QPSK	836.5	20525	5	1	12	21.60
QPSK	836.5	20525	5	1	24	21.68
QPSK	836.5	20525	5	12	0	20.64
QPSK	836.5	20525	5	12	7	20.67
QPSK	836.5	20525	5	12	13	20.66
QPSK	836.5	20525	5	25	0	20.59
QPSK	846.5	20625	5	1	0	21.52
QPSK	846.5	20625	5	1	12	21.82
QPSK	846.5	20625	5	1	24	21.70
QPSK	846.5	20625	5	12	0	20.62
QPSK	846.5	20625	5	12	7	20.79
QPSK	846.5	20625	5	12	13	20.73
QPSK	846.5	20625	5	25	0	20.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	20.77
16QAM	826.5	20425	5	1	12	21.24
16QAM	826.5	20425	5	1	24	20.59
16QAM	826.5	20425	5	12	0	19.55
16QAM	826.5	20425	5	12	7	19.63
16QAM	826.5	20425	5	12	13	19.63
16QAM	826.5	20425	5	25	0	19.68
16QAM	836.5	20525	5	1	0	20.75
16QAM	836.5	20525	5	1	12	20.94
16QAM	836.5	20525	5	1	24	20.86
16QAM	836.5	20525	5	12	0	19.65
16QAM	836.5	20525	5	12	7	19.68
16QAM	836.5	20525	5	12	13	19.60
16QAM	836.5	20525	5	25	0	19.59
16QAM	846.5	20625	5	1	0	20.94
16QAM	846.5	20625	5	1	12	20.87
16QAM	846.5	20625	5	1	24	20.71
16QAM	846.5	20625	5	12	0	19.50
16QAM	846.5	20625	5	12	7	19.83
16QAM	846.5	20625	5	12	13	19.75
16QAM	846.5	20625	5	25	0	19.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	21.65
QPSK	829	20450	10	1	25	21.45
QPSK	829	20450	10	1	49	21.65
QPSK	829	20450	10	25	0	20.60
QPSK	829	20450	10	25	12	20.72
QPSK	829	20450	10	25	25	20.67
QPSK	829	20450	10	50	0	20.69
QPSK	836.5	20525	10	1	0	21.58
QPSK	836.5	20525	10	1	25	21.63
QPSK	836.5	20525	10	1	49	21.65
QPSK	836.5	20525	10	25	0	20.64
QPSK	836.5	20525	10	25	12	20.61
QPSK	836.5	20525	10	25	25	20.60
QPSK	836.5	20525	10	50	0	20.65
QPSK	844	20600	10	1	0	21.73
QPSK	844	20600	10	1	25	21.68
QPSK	844	20600	10	1	49	21.68
QPSK	844	20600	10	25	0	20.71
QPSK	844	20600	10	25	12	20.67
QPSK	844	20600	10	25	25	20.64
QPSK	844	20600	10	50	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	21.01
16QAM	829	20450	10	1	25	20.81
16QAM	829	20450	10	1	49	21.38
16QAM	829	20450	10	25	0	19.65
16QAM	829	20450	10	25	12	19.66
16QAM	829	20450	10	25	25	19.67
16QAM	829	20450	10	50	0	19.69
16QAM	836.5	20525	10	1	0	20.88
16QAM	836.5	20525	10	1	25	20.92
16QAM	836.5	20525	10	1	49	20.88
16QAM	836.5	20525	10	25	0	19.69
16QAM	836.5	20525	10	25	12	19.64
16QAM	836.5	20525	10	25	25	19.73
16QAM	836.5	20525	10	50	0	19.65
16QAM	844	20600	10	1	0	20.88
16QAM	844	20600	10	1	25	21.43
16QAM	844	20600	10	1	49	20.47
16QAM	844	20600	10	25	0	19.66
16QAM	844	20600	10	25	12	19.73
16QAM	844	20600	10	25	25	19.68
16QAM	844	20600	10	50	0	19.74

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.080	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.080	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.070	Fig.3
5	QPSK	825.5	20415	3	15	0	2.670	Fig.4
5	QPSK	836.5	20525	3	15	0	2.680	Fig.5
5	QPSK	847.5	20635	3	15	0	2.670	Fig.6
5	QPSK	826.5	20425	5	25	0	4.460	Fig.7
5	QPSK	836.5	20525	5	25	0	4.460	Fig.8
5	QPSK	846.5	20625	5	25	0	4.460	Fig.9
5	QPSK	829	20450	10	50	0	8.930	Fig.10
5	QPSK	836.5	20525	10	50	0	8.910	Fig.11
5	QPSK	844	20600	10	50	0	8.910	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.070	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.080	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.080	Fig.15
5	16QAM	825.5	20415	3	15	0	2.680	Fig.16
5	16QAM	836.5	20525	3	15	0	2.670	Fig.17
5	16QAM	847.5	20635	3	15	0	2.680	Fig.18
5	16QAM	826.5	20425	5	25	0	4.470	Fig.19
5	16QAM	836.5	20525	5	25	0	4.450	Fig.20
5	16QAM	846.5	20625	5	25	0	4.460	Fig.21
5	16QAM	829	20450	10	50	0	8.930	Fig.22
5	16QAM	836.5	20525	10	50	0	8.920	Fig.23
5	16QAM	844	20600	10	50	0	8.910	Fig.24

Test Mode: QPSK

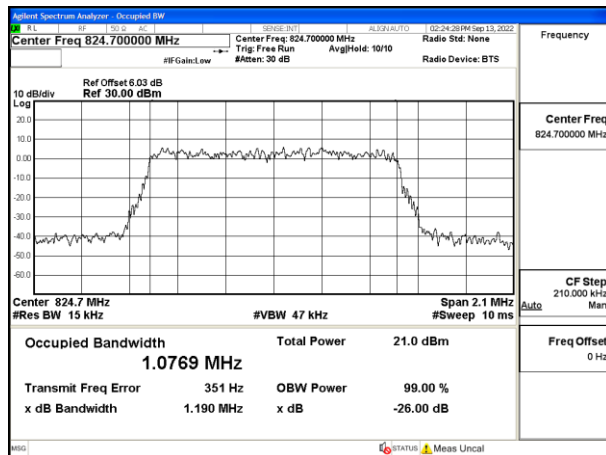


Fig.1

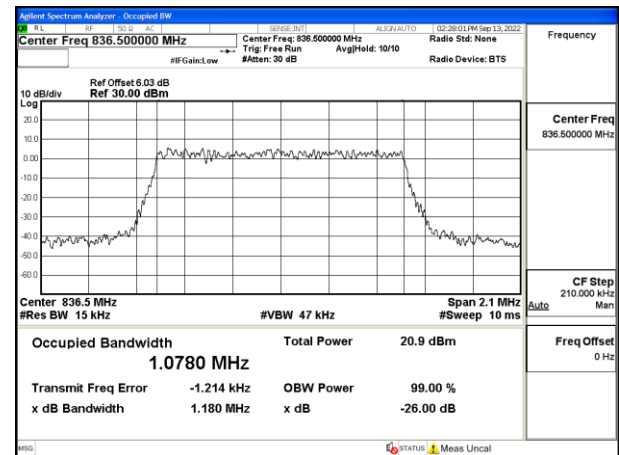


Fig.2

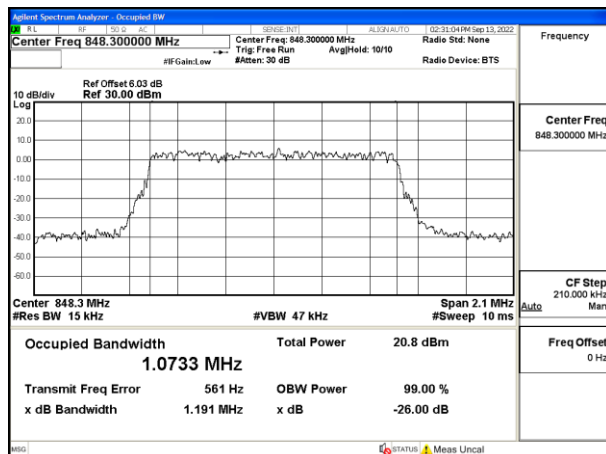


Fig.3

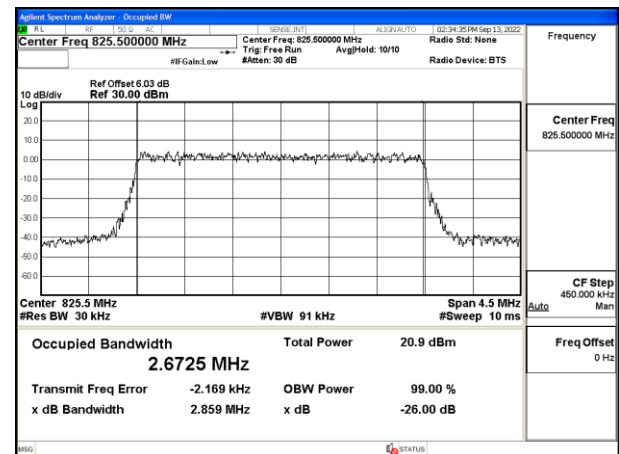


Fig.4

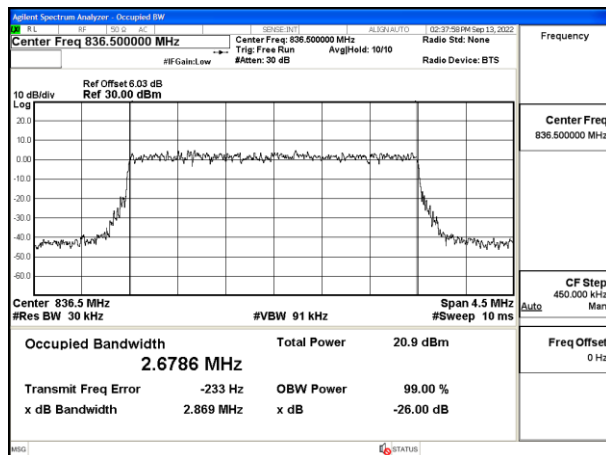


Fig.5

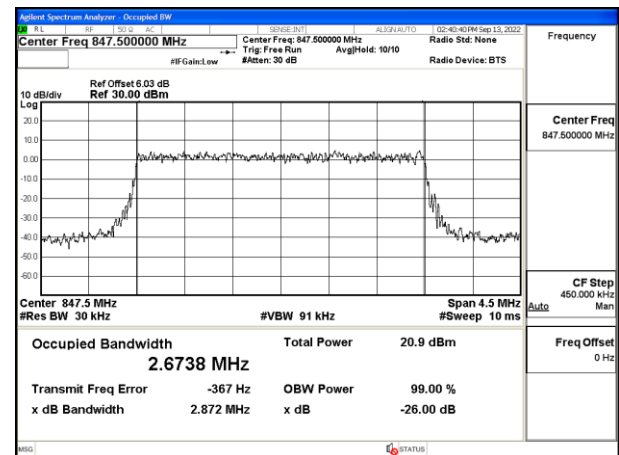


Fig.6

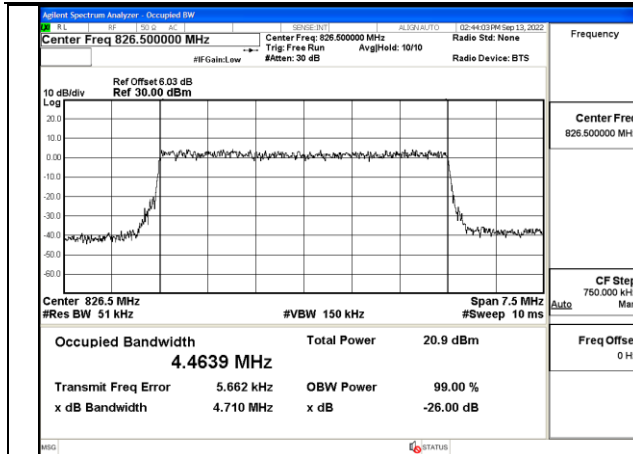


Fig.7

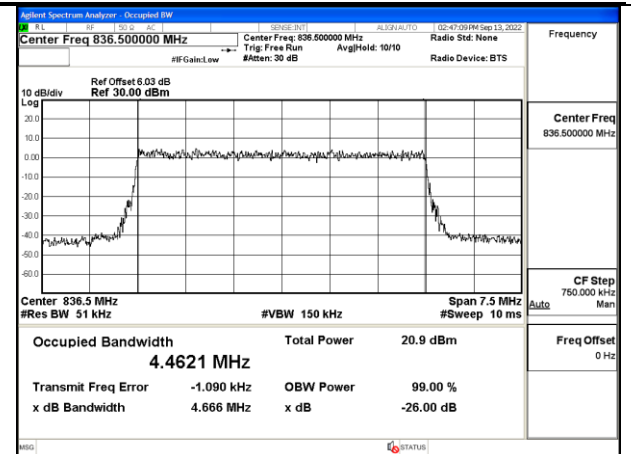


Fig.8

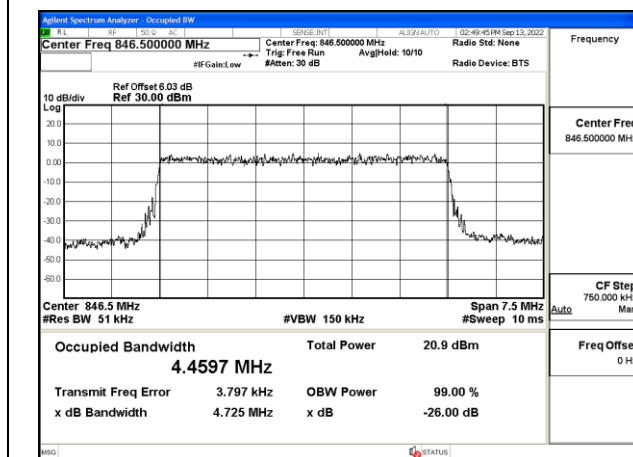


Fig.9

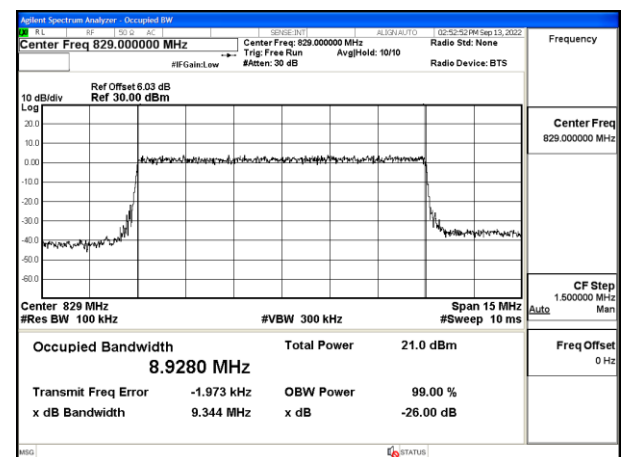


Fig.10

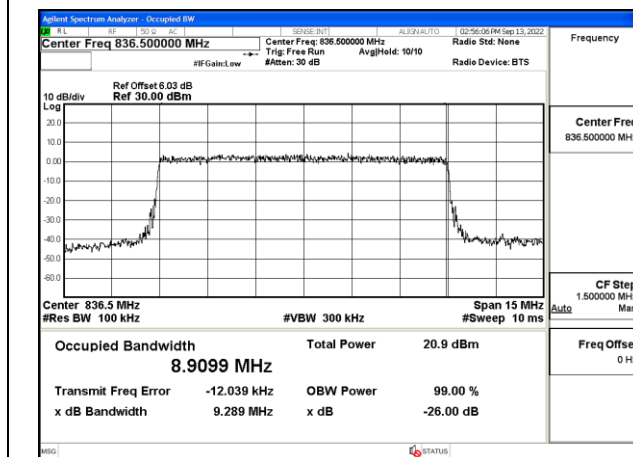


Fig.11

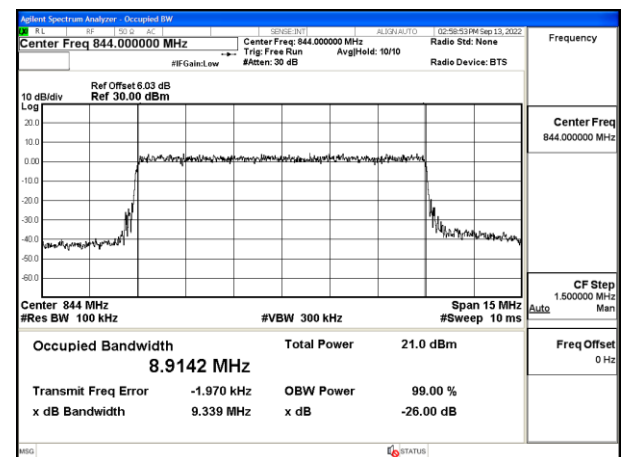


Fig.12

Test Mode: 16QAM

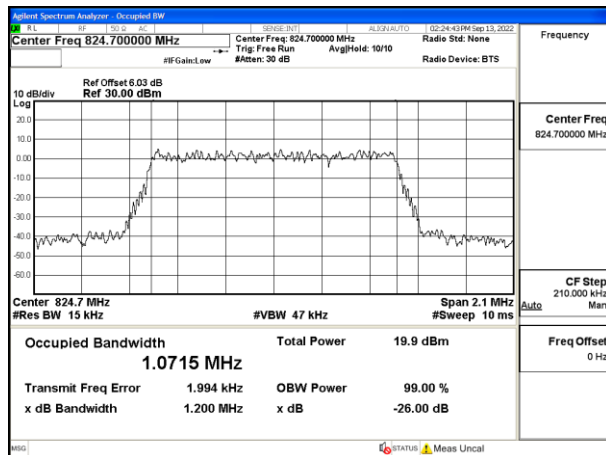


Fig.13

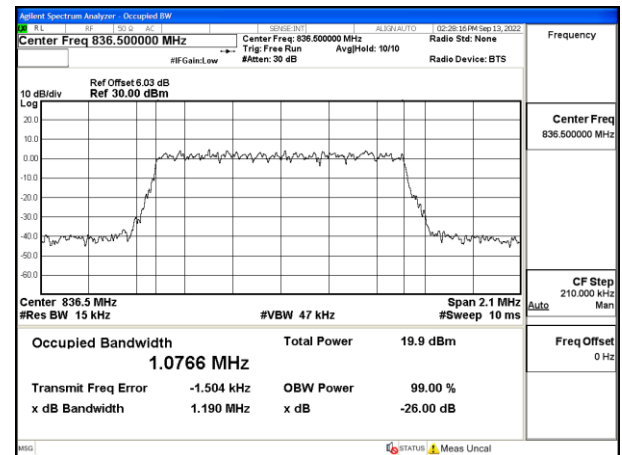


Fig.14

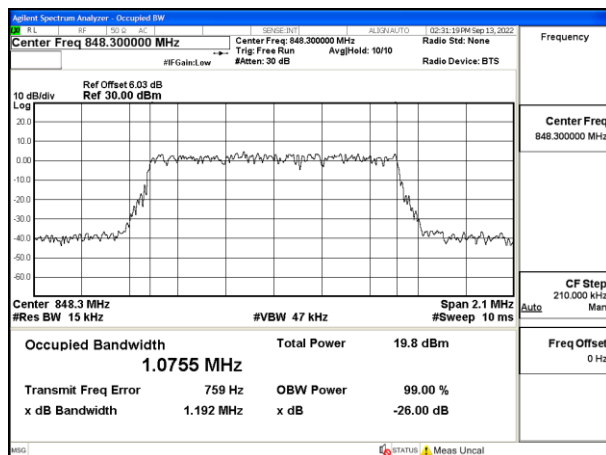


Fig.15

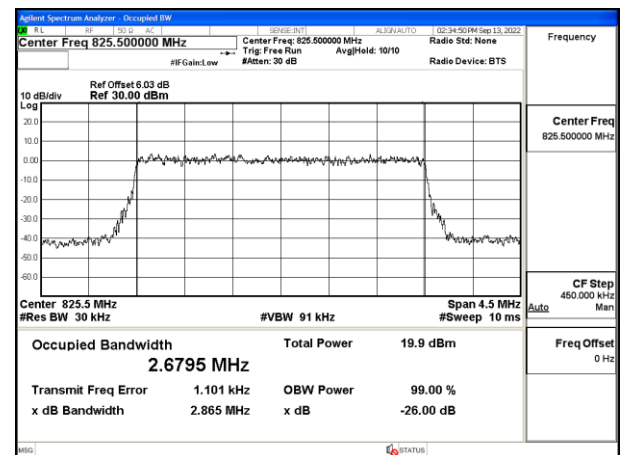


Fig.16

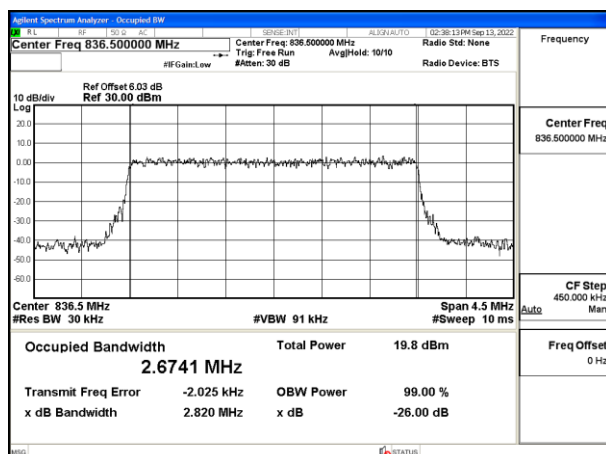


Fig.17

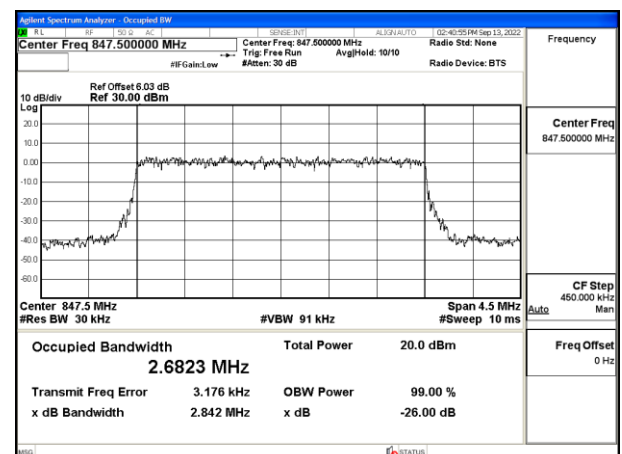


Fig.18

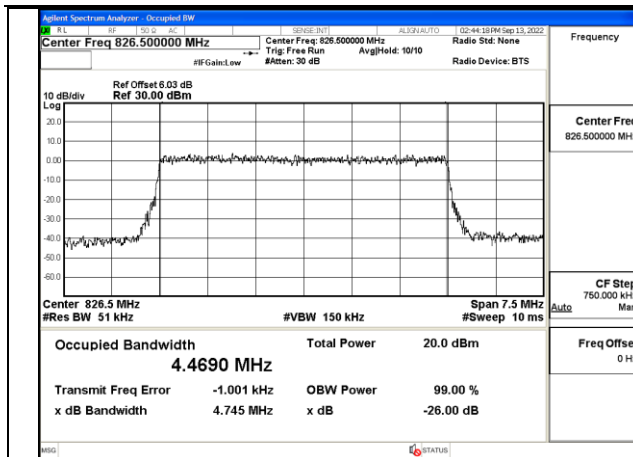


Fig.19

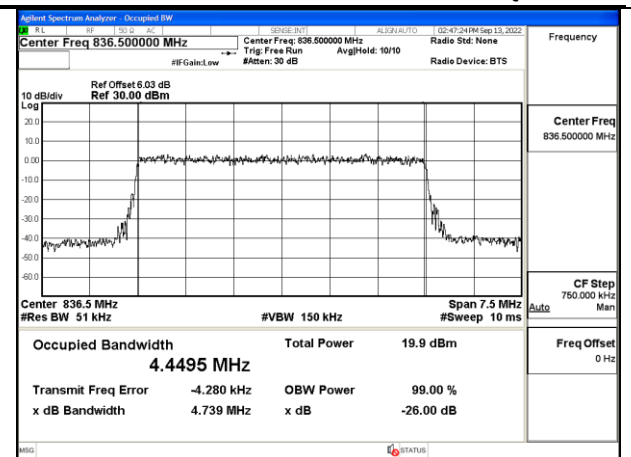


Fig.20

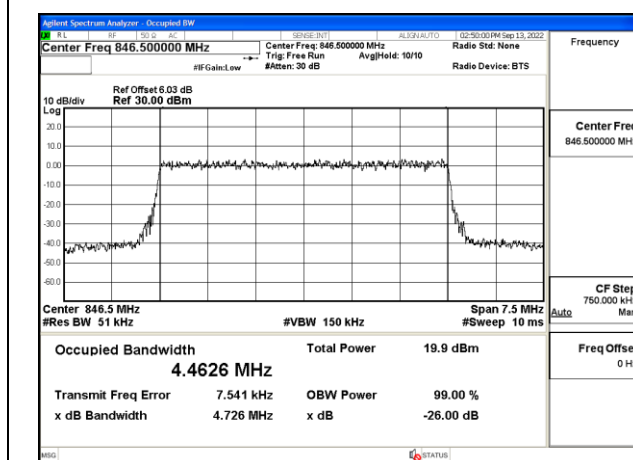


Fig.21

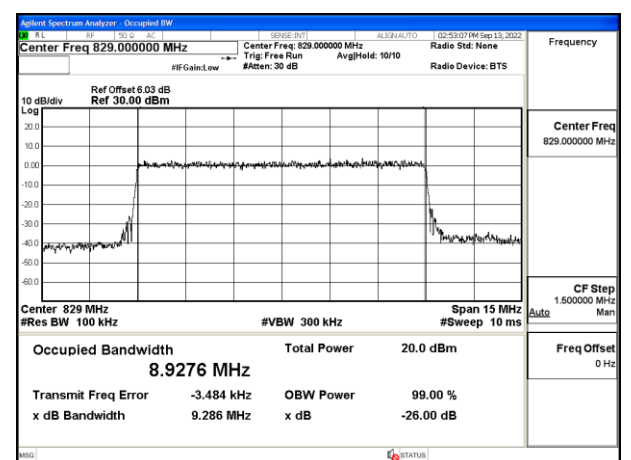


Fig.22

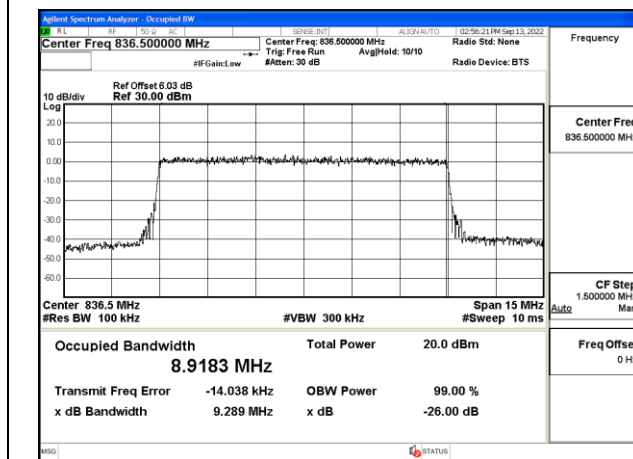


Fig.23

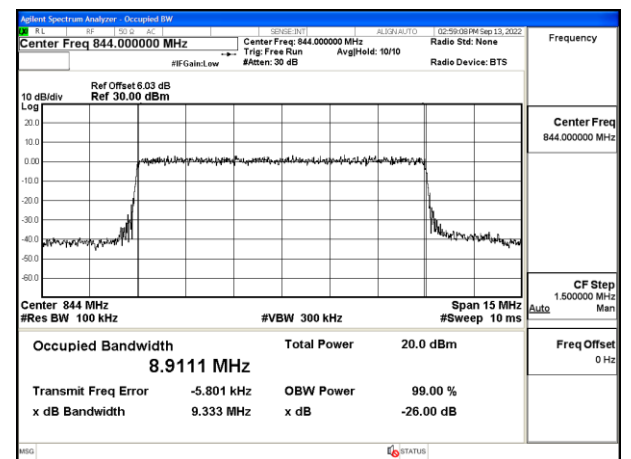


Fig.24

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.190	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.180	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.190	Fig.3
5	QPSK	825.5	20415	3	15	0	2.860	Fig.4
5	QPSK	836.5	20525	3	15	0	2.870	Fig.5
5	QPSK	847.5	20635	3	15	0	2.870	Fig.6
5	QPSK	826.5	20425	5	25	0	4.710	Fig.7
5	QPSK	836.5	20525	5	25	0	4.670	Fig.8
5	QPSK	846.5	20625	5	25	0	4.720	Fig.9
5	QPSK	829	20450	10	50	0	9.340	Fig.10
5	QPSK	836.5	20525	10	50	0	9.290	Fig.11
5	QPSK	844	20600	10	50	0	9.340	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.200	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.190	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.190	Fig.15
5	16QAM	825.5	20415	3	15	0	2.870	Fig.16
5	16QAM	836.5	20525	3	15	0	2.820	Fig.17
5	16QAM	847.5	20635	3	15	0	2.840	Fig.18
5	16QAM	826.5	20425	5	25	0	4.750	Fig.19
5	16QAM	836.5	20525	5	25	0	4.740	Fig.20
5	16QAM	846.5	20625	5	25	0	4.730	Fig.21
5	16QAM	829	20450	10	50	0	9.290	Fig.22
5	16QAM	836.5	20525	10	50	0	9.290	Fig.23
5	16QAM	844	20600	10	50	0	9.330	Fig.24

Test Mode: QPSK

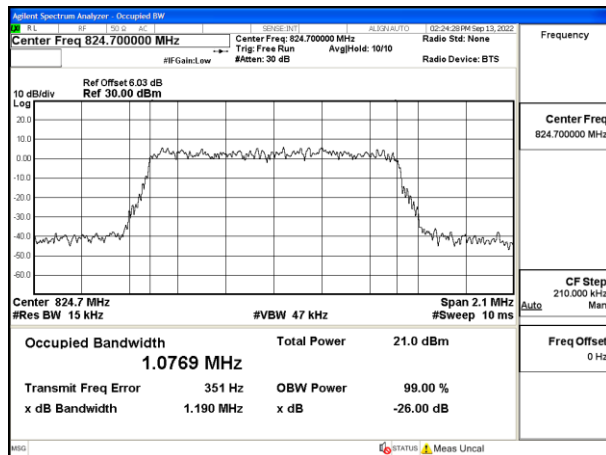


Fig.1

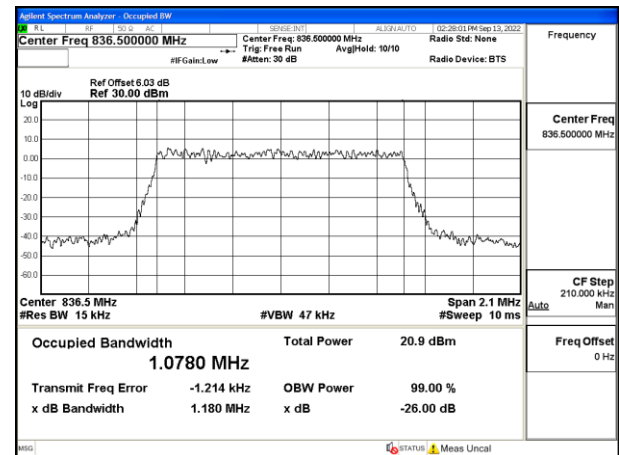


Fig.2

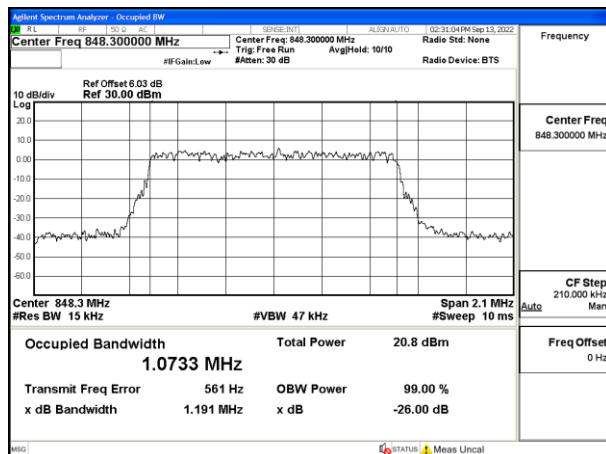


Fig.3

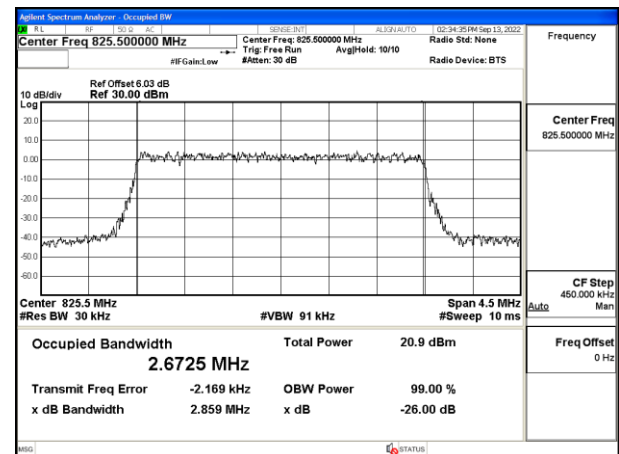


Fig.4

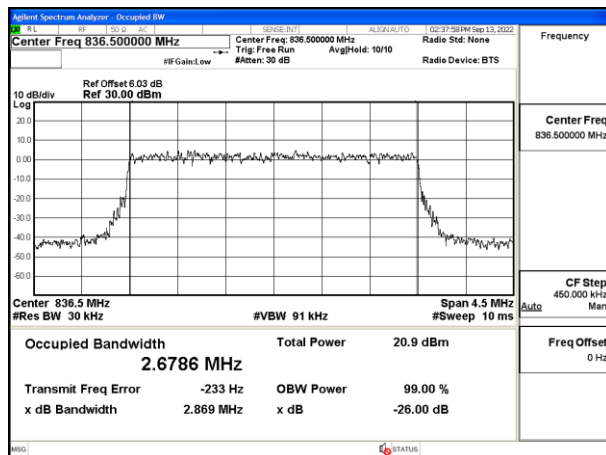


Fig.5

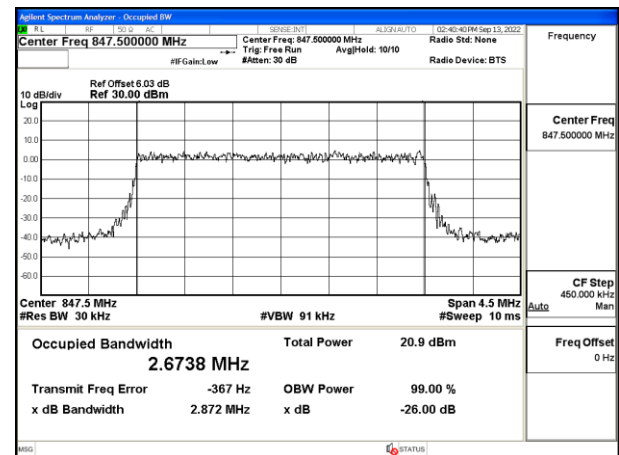


Fig.6

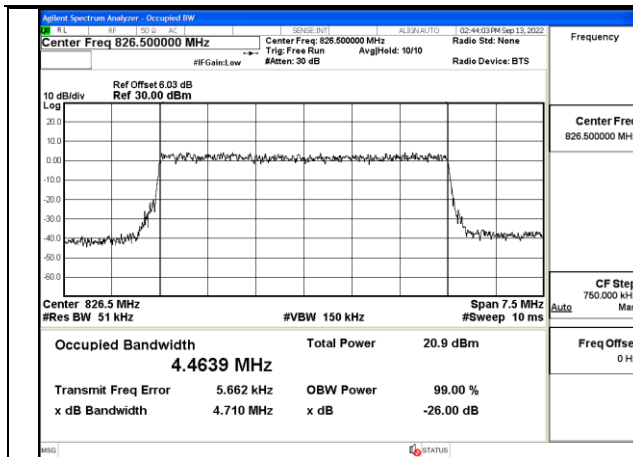


Fig.7

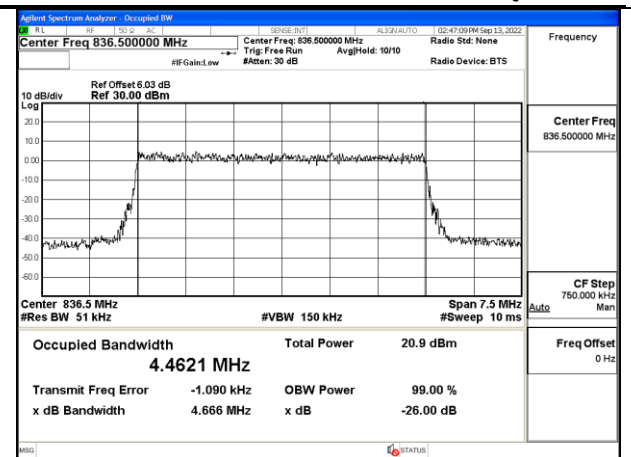


Fig.8

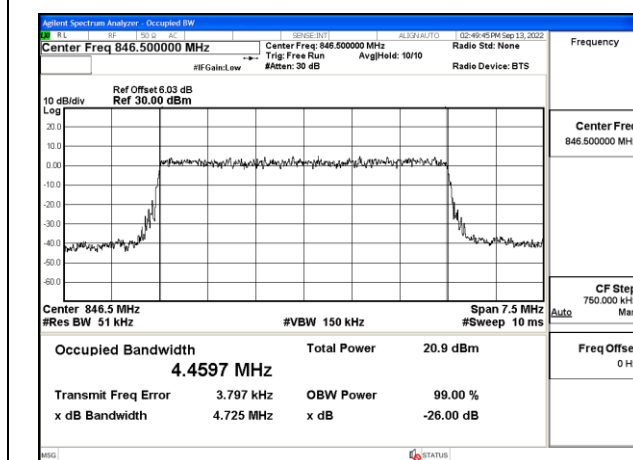


Fig.9

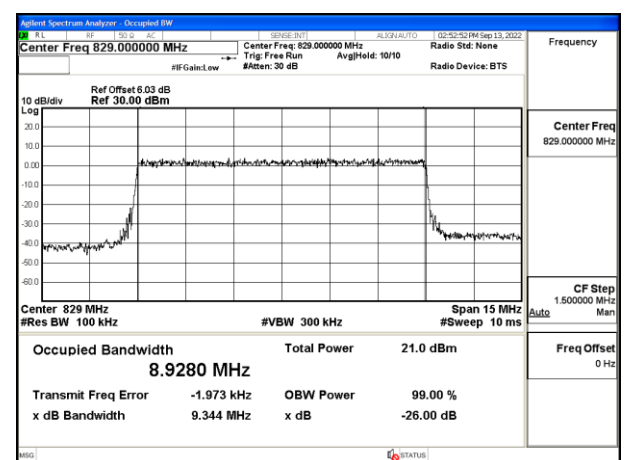


Fig.10

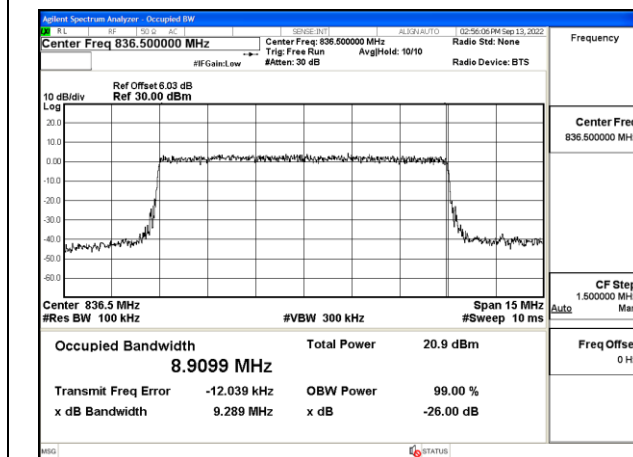


Fig.11

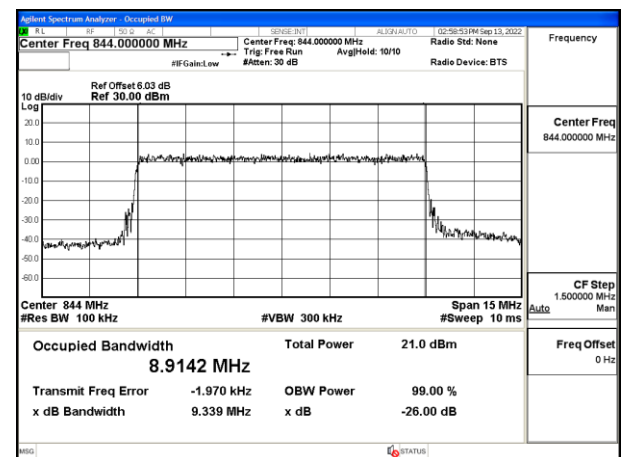


Fig.12

Test Mode: 16QAM

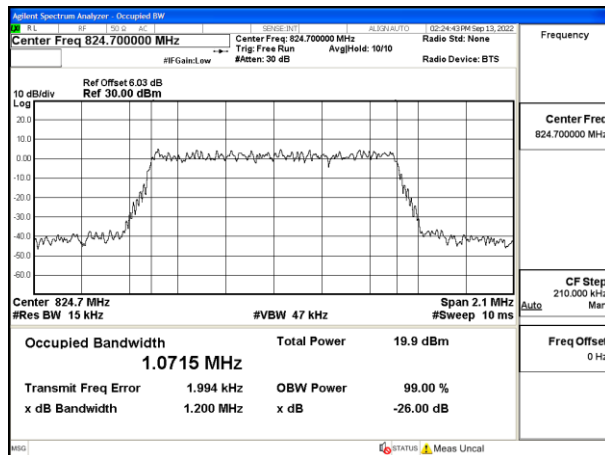


Fig.13

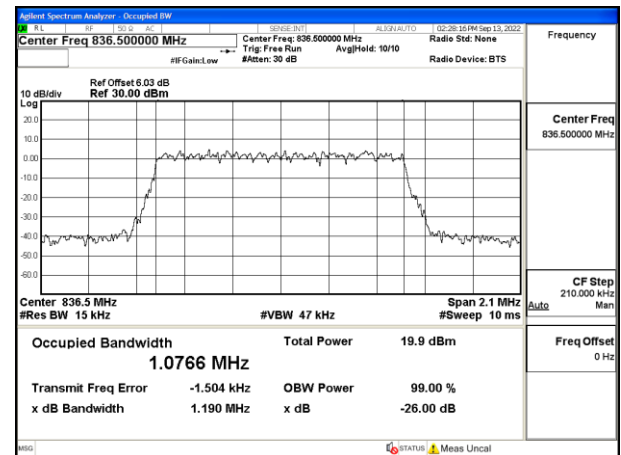


Fig.14

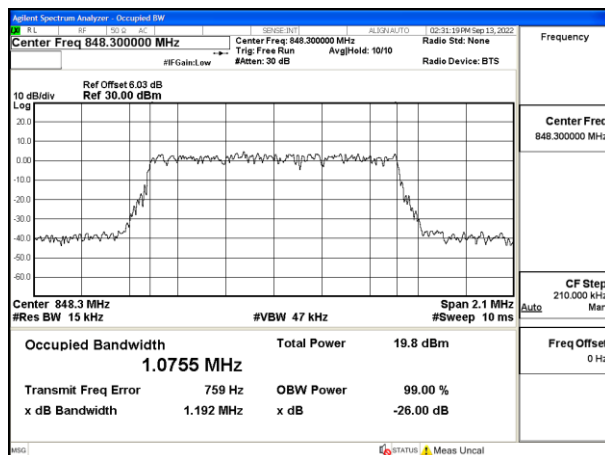


Fig.15

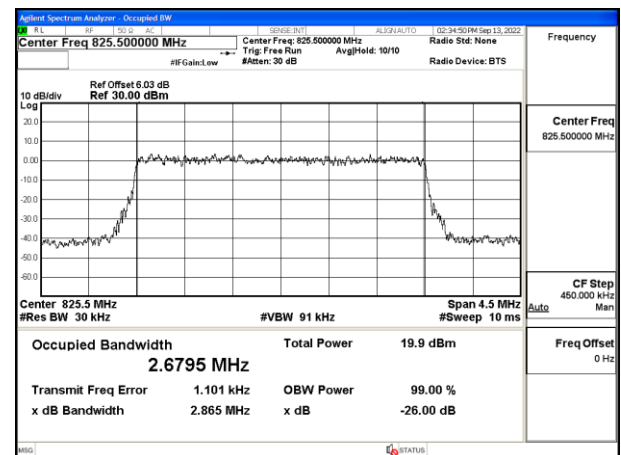


Fig.16

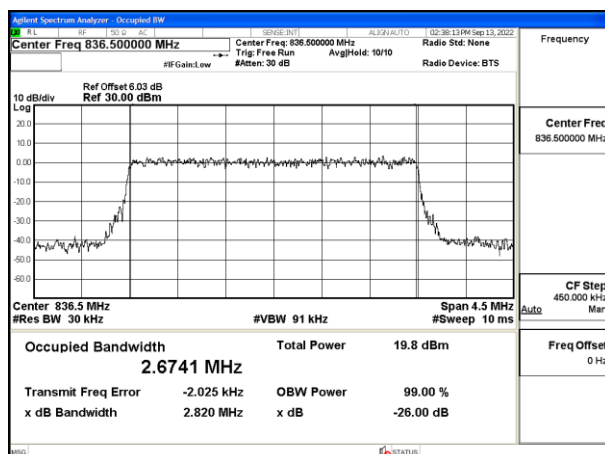


Fig.17

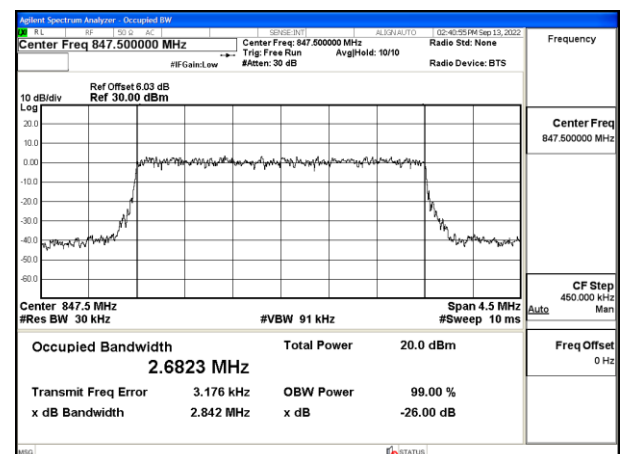


Fig.18

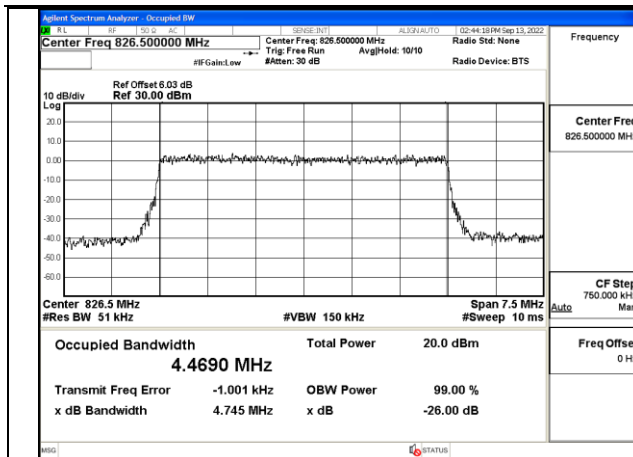


Fig.19

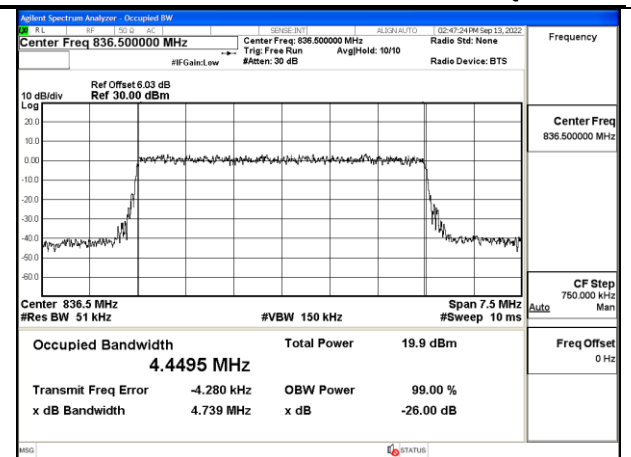


Fig.20

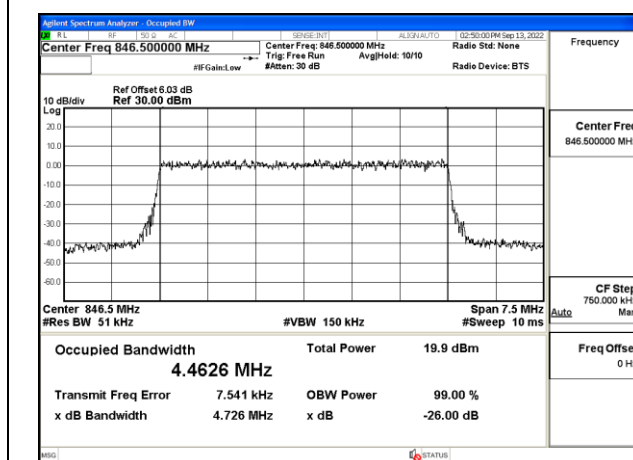


Fig.21

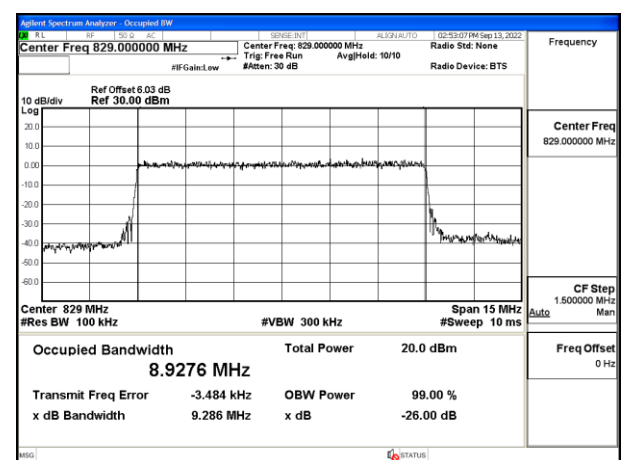


Fig.22

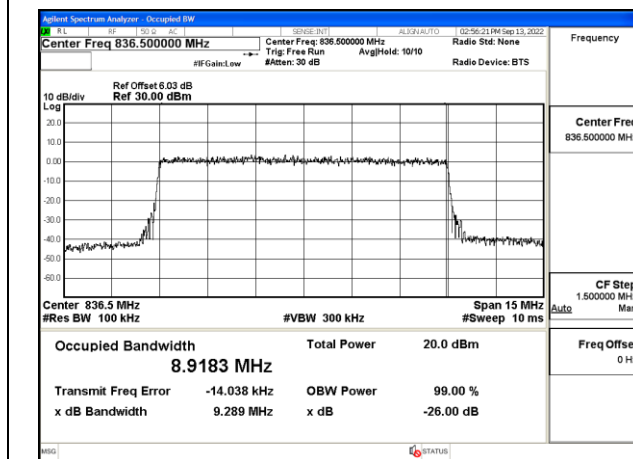


Fig.23

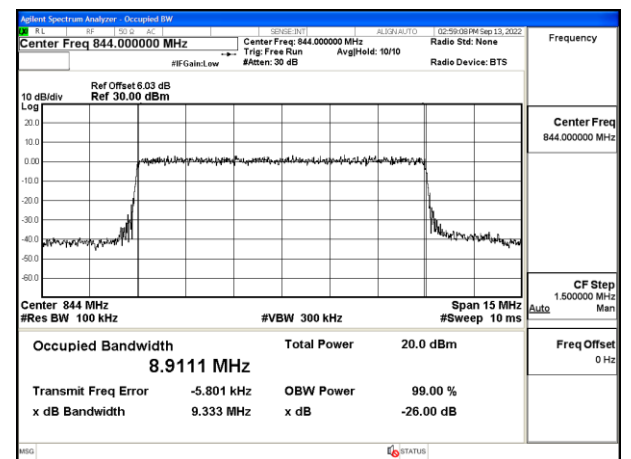


Fig.24

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM
5	824.7	20407	1.4	1	5	Fig.1	Fig.2
5	824.7	20407	1.4	6	0	Fig.4	Fig.5
5	836.5	20525	1.4	1	5	Fig.7	Fig.8
5	836.5	20525	1.4	6	0	Fig.10	Fig.11
5	848.3	20643	1.4	1	5	Fig.13	Fig.14
5	848.3	20643	1.4	6	0	Fig.16	Fig.17
5	825.5	20415	3	1	14	Fig.19	Fig.20
5	825.5	20415	3	15	0	Fig.22	Fig.23
5	836.5	20525	3	1	14	Fig.25	Fig.26
5	836.5	20525	3	15	0	Fig.28	Fig.29
5	847.5	20635	3	1	14	Fig.31	Fig.32
5	847.5	20635	3	15	0	Fig.34	Fig.35
5	826.5	20425	5	1	24	Fig.37	Fig.38
5	826.5	20425	5	25	0	Fig.40	Fig.41
5	836.5	20525	5	1	24	Fig.43	Fig.44
5	836.5	20525	5	25	0	Fig.46	Fig.47
5	846.5	20625	5	1	24	Fig.49	Fig.50
5	846.5	20625	5	25	0	Fig.52	Fig.53
5	829	20450	10	1	49	Fig.55	Fig.56
5	829	20450	10	50	0	Fig.58	Fig.59
5	836.5	20525	10	1	49	Fig.61	Fig.62
5	836.5	20525	10	50	0	Fig.64	Fig.65
5	844	20600	10	1	49	Fig.67	Fig.68
5	844	20600	10	50	0	Fig.70	Fig.71

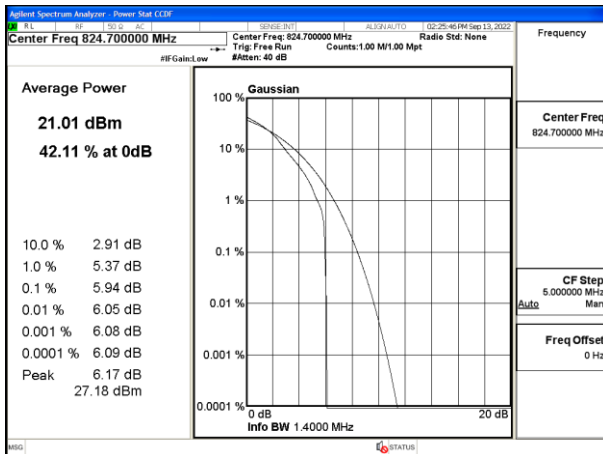


Fig.1

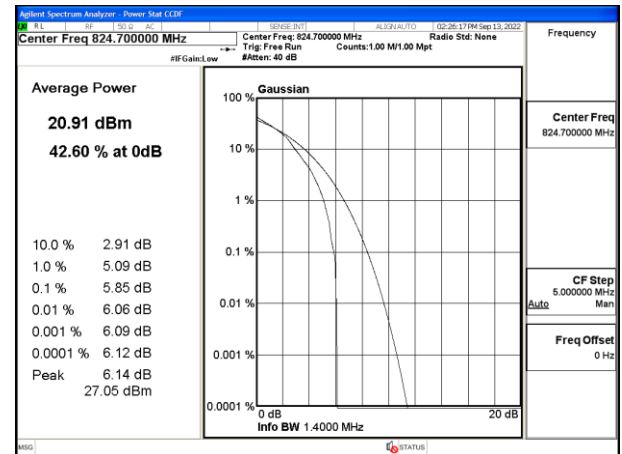


Fig.2

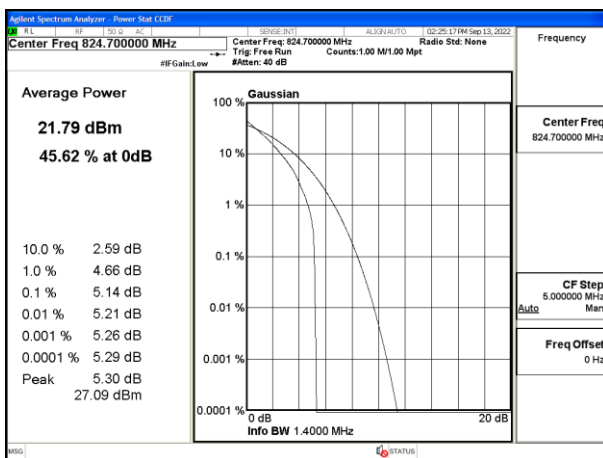


Fig.3

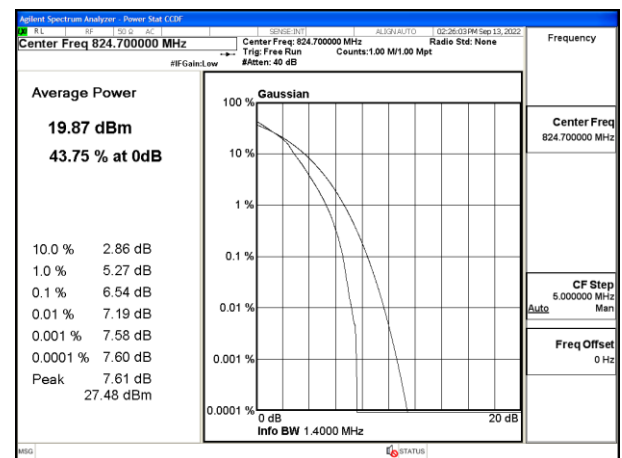


Fig.4

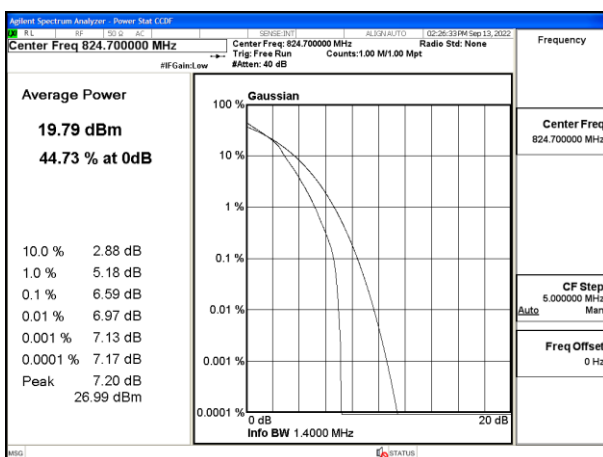


Fig.5

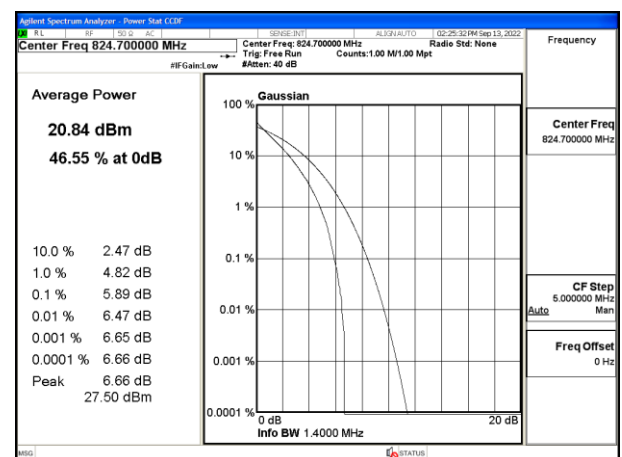


Fig.6