

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	23.50
QPSK	824.7	20407	1.4	1	3	23.33
QPSK	824.7	20407	1.4	1	5	23.25
QPSK	824.7	20407	1.4	3	0	23.61
QPSK	824.7	20407	1.4	3	1	23.66
QPSK	824.7	20407	1.4	3	3	23.58
QPSK	824.7	20407	1.4	6	0	22.50
QPSK	836.5	20525	1.4	1	0	23.81
QPSK	836.5	20525	1.4	1	3	23.78
QPSK	836.5	20525	1.4	1	5	23.70
QPSK	836.5	20525	1.4	3	0	23.70
QPSK	836.5	20525	1.4	3	1	23.71
QPSK	836.5	20525	1.4	3	3	23.62
QPSK	836.5	20525	1.4	6	0	22.64
QPSK	848.3	20643	1.4	1	0	23.74
QPSK	848.3	20643	1.4	1	3	23.92
QPSK	848.3	20643	1.4	1	5	23.93
QPSK	848.3	20643	1.4	3	0	23.60
QPSK	848.3	20643	1.4	3	1	23.68
QPSK	848.3	20643	1.4	3	3	23.59
QPSK	848.3	20643	1.4	6	0	22.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.89
16QAM	824.7	20407	1.4	1	3	22.94
16QAM	824.7	20407	1.4	1	5	23.03
16QAM	824.7	20407	1.4	3	0	22.78
16QAM	824.7	20407	1.4	3	1	22.82
16QAM	824.7	20407	1.4	3	3	22.74
16QAM	824.7	20407	1.4	6	0	21.31
16QAM	836.5	20525	1.4	1	0	23.17
16QAM	836.5	20525	1.4	1	3	23.25
16QAM	836.5	20525	1.4	1	5	23.06
16QAM	836.5	20525	1.4	3	0	22.63
16QAM	836.5	20525	1.4	3	1	22.86
16QAM	836.5	20525	1.4	3	3	22.75
16QAM	836.5	20525	1.4	6	0	21.54
16QAM	848.3	20643	1.4	1	0	22.87
16QAM	848.3	20643	1.4	1	3	23.08
16QAM	848.3	20643	1.4	1	5	22.80
16QAM	848.3	20643	1.4	3	0	22.82
16QAM	848.3	20643	1.4	3	1	23.07
16QAM	848.3	20643	1.4	3	3	22.80
16QAM	848.3	20643	1.4	6	0	21.39
64QAM	824.7	20407	1.4	1	0	22.15
64QAM	824.7	20407	1.4	1	3	21.85
64QAM	824.7	20407	1.4	1	5	22.22
64QAM	824.7	20407	1.4	3	0	21.53
64QAM	824.7	20407	1.4	3	1	21.44
64QAM	824.7	20407	1.4	3	3	21.45
64QAM	824.7	20407	1.4	6	0	20.89
64QAM	836.5	20525	1.4	1	0	22.52
64QAM	836.5	20525	1.4	1	3	22.27
64QAM	836.5	20525	1.4	1	5	22.53
64QAM	836.5	20525	1.4	3	0	21.61
64QAM	836.5	20525	1.4	3	1	21.43
64QAM	836.5	20525	1.4	3	3	21.65
64QAM	836.5	20525	1.4	6	0	20.43
64QAM	848.3	20643	1.4	1	0	21.24
64QAM	848.3	20643	1.4	1	3	21.58
64QAM	848.3	20643	1.4	1	5	21.57
64QAM	848.3	20643	1.4	3	0	21.49
64QAM	848.3	20643	1.4	3	1	21.58
64QAM	848.3	20643	1.4	3	3	21.26
64QAM	848.3	20643	1.4	6	0	20.48

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.51
QPSK	825.5	20415	3	1	8	23.43
QPSK	825.5	20415	3	1	14	23.40
QPSK	825.5	20415	3	8	0	22.52
QPSK	825.5	20415	3	8	4	22.59
QPSK	825.5	20415	3	8	7	22.60
QPSK	825.5	20415	3	15	0	22.55
QPSK	836.5	20525	3	1	0	23.72
QPSK	836.5	20525	3	1	8	23.62
QPSK	836.5	20525	3	1	14	23.74
QPSK	836.5	20525	3	8	0	22.59
QPSK	836.5	20525	3	8	4	22.60
QPSK	836.5	20525	3	8	7	22.55
QPSK	836.5	20525	3	15	0	22.63
QPSK	847.5	20635	3	1	0	23.78
QPSK	847.5	20635	3	1	8	23.79
QPSK	847.5	20635	3	1	14	23.65
QPSK	847.5	20635	3	8	0	22.70
QPSK	847.5	20635	3	8	4	22.76
QPSK	847.5	20635	3	8	7	22.64
QPSK	847.5	20635	3	15	0	22.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.52
16QAM	825.5	20415	3	1	8	22.94
16QAM	825.5	20415	3	1	14	23.14
16QAM	825.5	20415	3	8	0	21.56
16QAM	825.5	20415	3	8	4	21.53
16QAM	825.5	20415	3	8	7	21.64
16QAM	825.5	20415	3	15	0	21.54
16QAM	836.5	20525	3	1	0	23.28
16QAM	836.5	20525	3	1	8	23.02
16QAM	836.5	20525	3	1	14	23.06
16QAM	836.5	20525	3	8	0	21.72
16QAM	836.5	20525	3	8	4	21.74
16QAM	836.5	20525	3	8	7	21.89
16QAM	836.5	20525	3	15	0	21.62
16QAM	847.5	20635	3	1	0	23.10
16QAM	847.5	20635	3	1	8	22.88
16QAM	847.5	20635	3	1	14	22.90
16QAM	847.5	20635	3	8	0	21.77
16QAM	847.5	20635	3	8	4	21.66
16QAM	847.5	20635	3	8	7	21.64
16QAM	847.5	20635	3	15	0	21.71
64QAM	825.5	20415	3	1	0	21.51
64QAM	825.5	20415	3	1	8	21.61
64QAM	825.5	20415	3	1	14	21.60
64QAM	825.5	20415	3	8	0	20.73
64QAM	825.5	20415	3	8	4	20.72
64QAM	825.5	20415	3	8	7	20.41
64QAM	825.5	20415	3	15	0	20.93
64QAM	836.5	20525	3	1	0	21.40
64QAM	836.5	20525	3	1	8	21.91
64QAM	836.5	20525	3	1	14	21.58
64QAM	836.5	20525	3	8	0	20.42
64QAM	836.5	20525	3	8	4	20.45
64QAM	836.5	20525	3	8	7	20.68
64QAM	836.5	20525	3	15	0	20.63
64QAM	847.5	20635	3	1	0	22.29
64QAM	847.5	20635	3	1	8	22.06
64QAM	847.5	20635	3	1	14	22.18
64QAM	847.5	20635	3	8	0	20.44
64QAM	847.5	20635	3	8	4	20.71
64QAM	847.5	20635	3	8	7	20.58
64QAM	847.5	20635	3	15	0	20.64

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.57
QPSK	826.5	20425	5	1	12	23.51
QPSK	826.5	20425	5	1	24	23.45
QPSK	826.5	20425	5	12	0	22.41
QPSK	826.5	20425	5	12	7	22.68
QPSK	826.5	20425	5	12	13	22.46
QPSK	826.5	20425	5	25	0	22.57
QPSK	836.5	20525	5	1	0	23.73
QPSK	836.5	20525	5	1	12	23.68
QPSK	836.5	20525	5	1	24	23.76
QPSK	836.5	20525	5	12	0	22.55
QPSK	836.5	20525	5	12	7	22.60
QPSK	836.5	20525	5	12	13	22.72
QPSK	836.5	20525	5	25	0	22.52
QPSK	846.5	20625	5	1	0	23.66
QPSK	846.5	20625	5	1	12	23.75
QPSK	846.5	20625	5	1	24	23.60
QPSK	846.5	20625	5	12	0	22.66
QPSK	846.5	20625	5	12	7	22.70
QPSK	846.5	20625	5	12	13	22.63
QPSK	846.5	20625	5	25	0	22.67

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.91
16QAM	826.5	20425	5	1	12	22.68
16QAM	826.5	20425	5	1	24	22.82
16QAM	826.5	20425	5	12	0	21.69
16QAM	826.5	20425	5	12	7	21.52
16QAM	826.5	20425	5	12	13	21.46
16QAM	826.5	20425	5	25	0	21.59
16QAM	836.5	20525	5	1	0	23.05
16QAM	836.5	20525	5	1	12	23.06
16QAM	836.5	20525	5	1	24	23.22
16QAM	836.5	20525	5	12	0	21.54
16QAM	836.5	20525	5	12	7	21.74
16QAM	836.5	20525	5	12	13	21.69
16QAM	836.5	20525	5	25	0	21.55
16QAM	846.5	20625	5	1	0	23.51
16QAM	846.5	20625	5	1	12	23.29
16QAM	846.5	20625	5	1	24	23.10
16QAM	846.5	20625	5	12	0	21.69
16QAM	846.5	20625	5	12	7	21.78
16QAM	846.5	20625	5	12	13	21.62
16QAM	846.5	20625	5	25	0	21.53
64QAM	826.5	20425	5	1	0	21.75
64QAM	826.5	20425	5	1	12	21.95
64QAM	826.5	20425	5	1	24	22.18
64QAM	826.5	20425	5	12	0	20.80
64QAM	826.5	20425	5	12	7	20.98
64QAM	826.5	20425	5	12	13	20.71
64QAM	826.5	20425	5	25	0	20.53
64QAM	836.5	20525	5	1	0	21.68
64QAM	836.5	20525	5	1	12	21.78
64QAM	836.5	20525	5	1	24	21.34
64QAM	836.5	20525	5	12	0	20.65
64QAM	836.5	20525	5	12	7	20.72
64QAM	836.5	20525	5	12	13	20.67
64QAM	836.5	20525	5	25	0	20.59
64QAM	846.5	20625	5	1	0	21.77
64QAM	846.5	20625	5	1	12	21.88
64QAM	846.5	20625	5	1	24	21.66
64QAM	846.5	20625	5	12	0	20.70
64QAM	846.5	20625	5	12	7	20.59
64QAM	846.5	20625	5	12	13	21.09
64QAM	846.5	20625	5	25	0	20.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.81
QPSK	829	20450	10	1	25	23.70
QPSK	829	20450	10	1	49	23.90
QPSK	829	20450	10	25	0	22.42
QPSK	829	20450	10	25	12	22.45
QPSK	829	20450	10	25	25	22.47
QPSK	829	20450	10	50	0	22.43
QPSK	836.5	20525	10	1	0	23.79
QPSK	836.5	20525	10	1	25	23.86
QPSK	836.5	20525	10	1	49	23.84
QPSK	836.5	20525	10	25	0	22.72
QPSK	836.5	20525	10	25	12	22.64
QPSK	836.5	20525	10	25	25	22.72
QPSK	836.5	20525	10	50	0	22.63
QPSK	844	20600	10	1	0	23.80
QPSK	844	20600	10	1	25	23.67
QPSK	844	20600	10	1	49	23.76
QPSK	844	20600	10	25	0	22.72
QPSK	844	20600	10	25	12	22.62
QPSK	844	20600	10	25	25	22.56
QPSK	844	20600	10	50	0	22.65

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.86
16QAM	829	20450	10	1	25	22.59
16QAM	829	20450	10	1	49	22.64
16QAM	829	20450	10	25	0	21.64
16QAM	829	20450	10	25	12	21.64
16QAM	829	20450	10	25	25	21.64
16QAM	829	20450	10	50	0	21.42
16QAM	836.5	20525	10	1	0	23.32
16QAM	836.5	20525	10	1	25	22.68
16QAM	836.5	20525	10	1	49	22.94
16QAM	836.5	20525	10	25	0	22.06
16QAM	836.5	20525	10	25	12	21.85
16QAM	836.5	20525	10	25	25	21.90
16QAM	836.5	20525	10	50	0	21.70
16QAM	844	20600	10	1	0	23.37
16QAM	844	20600	10	1	25	22.80
16QAM	844	20600	10	1	49	23.06
16QAM	844	20600	10	25	0	22.03
16QAM	844	20600	10	25	12	21.71
16QAM	844	20600	10	25	25	21.70
16QAM	844	20600	10	50	0	21.59
64QAM	829	20450	10	1	0	21.22
64QAM	829	20450	10	1	25	21.56
64QAM	829	20450	10	1	49	21.34
64QAM	829	20450	10	25	0	20.39
64QAM	829	20450	10	25	12	20.43
64QAM	829	20450	10	25	25	20.94
64QAM	829	20450	10	50	0	20.63
64QAM	836.5	20525	10	1	0	21.83
64QAM	836.5	20525	10	1	25	21.94
64QAM	836.5	20525	10	1	49	22.88
64QAM	836.5	20525	10	25	0	20.56
64QAM	836.5	20525	10	25	12	20.52
64QAM	836.5	20525	10	25	25	20.88
64QAM	836.5	20525	10	50	0	20.62
64QAM	844	20600	10	1	0	21.99
64QAM	844	20600	10	1	25	21.59
64QAM	844	20600	10	1	49	21.73
64QAM	844	20600	10	25	0	20.91
64QAM	844	20600	10	25	12	21.17
64QAM	844	20600	10	25	25	20.59
64QAM	844	20600	10	50	0	21.31

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	1.080	Fig.3
5	QPSK	825.5	20415	3	15	0	2.680	Fig.4
5	QPSK	836.5	20525	3	15	0	2.680	Fig.5
5	QPSK	847.5	20635	3	15	0	2.680	Fig.6
5	QPSK	826.5	20425	5	25	0	4.470	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	8.920	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	2.670	Fig.16
5	16QAM	836.5	20525	3	15	0	2.670	Fig.17
5	16QAM	847.5	20635	3	15	0	2.670	Fig.18
5	16QAM	826.5	20425	5	25	0	4.460	Fig.19
5	16QAM	836.5	20525	5	25	0	4.450	Fig.20
5	16QAM	846.5	20625	5	25	0	4.450	Fig.21
5	16QAM	829	20450	10	50	0	8.900	Fig.22
5	16QAM	836.5	20525	10	50	0	8.900	Fig.23
5	16QAM	844	20600	10	50	0	8.910	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.070	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.080	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.080	Fig.27
5	64QAM	825.5	20415	3	15	0	2.680	Fig.28
5	64QAM	836.5	20525	3	15	0	2.680	Fig.29
5	64QAM	847.5	20635	3	15	0	2.680	Fig.30
5	64QAM	826.5	20425	5	25	0	4.470	Fig.31
5	64QAM	836.5	20525	5	25	0	4.460	Fig.32
5	64QAM	846.5	20625	5	25	0	4.460	Fig.33
5	64QAM	829	20450	10	50	0	8.930	Fig.34
5	64QAM	836.5	20525	10	50	0	8.910	Fig.35
5	64QAM	844	20600	10	50	0	8.920	Fig.36

Test Mode: QPSK

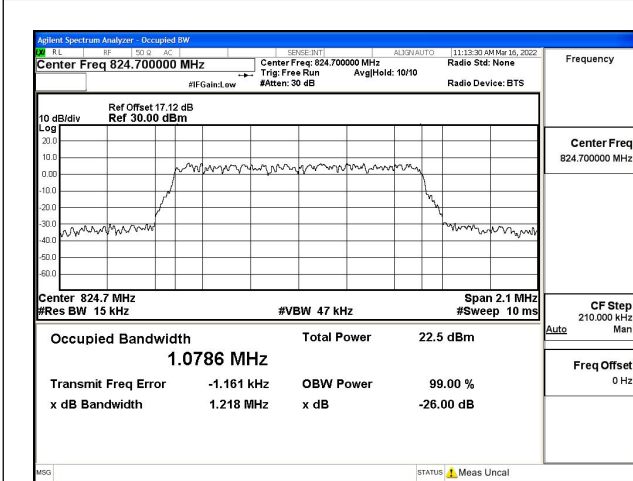


Fig.1

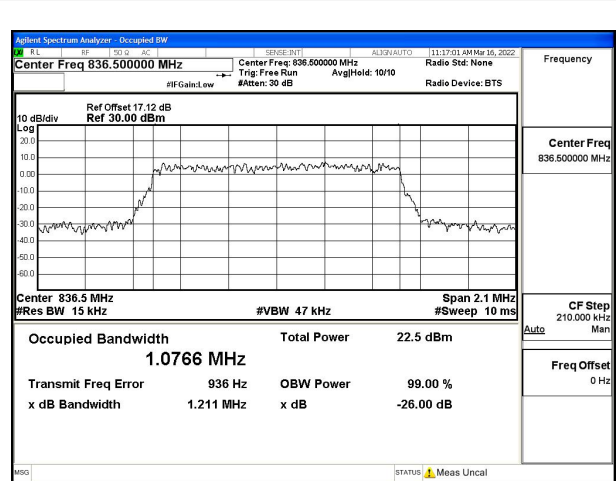


Fig.2

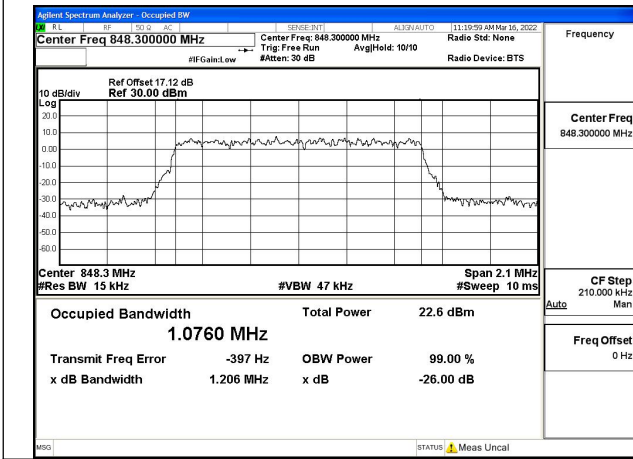


Fig.3

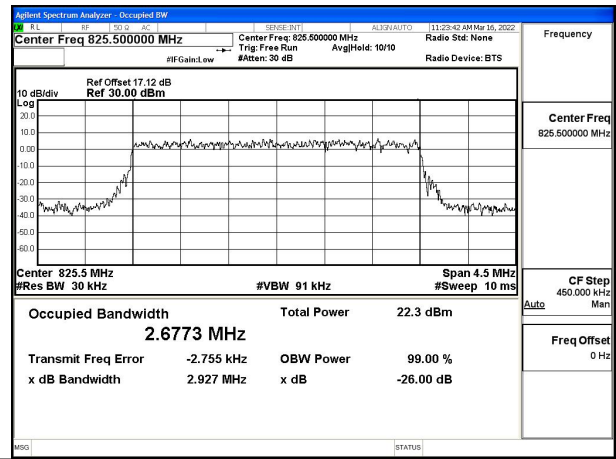


Fig.4

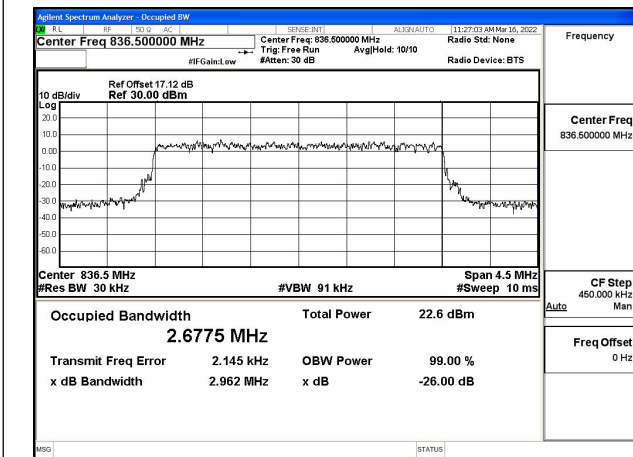


Fig.5

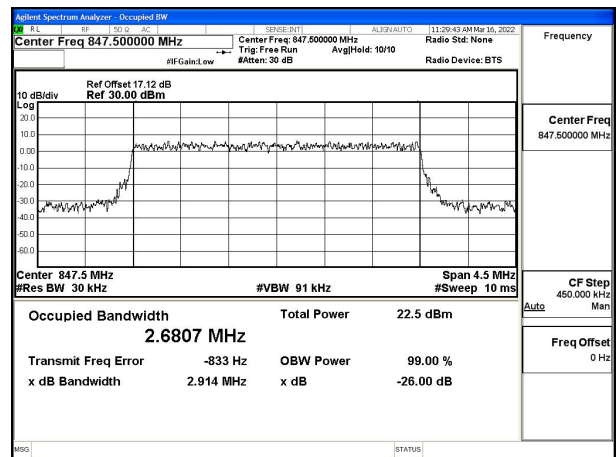


Fig.6

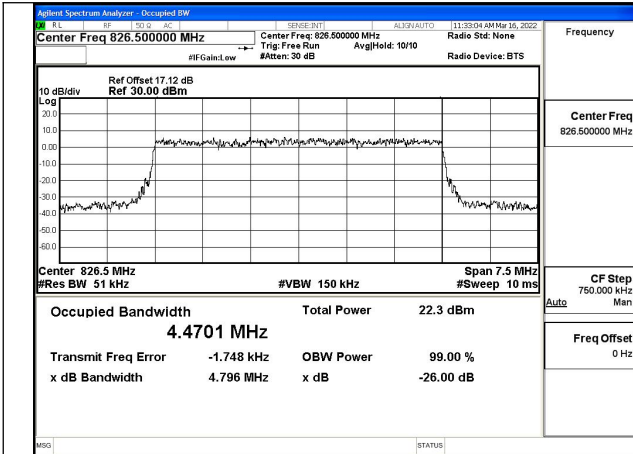


Fig.7

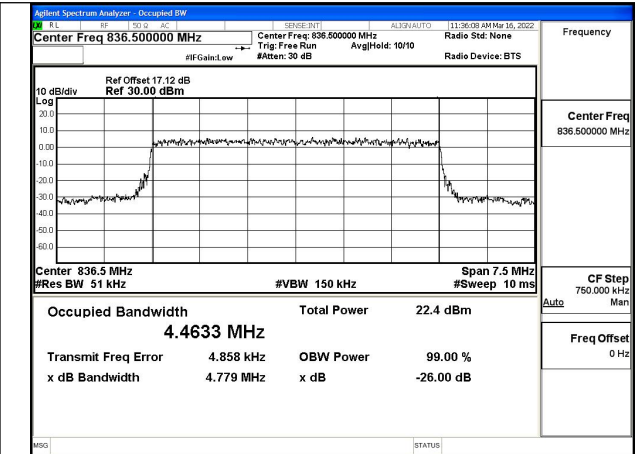


Fig.8

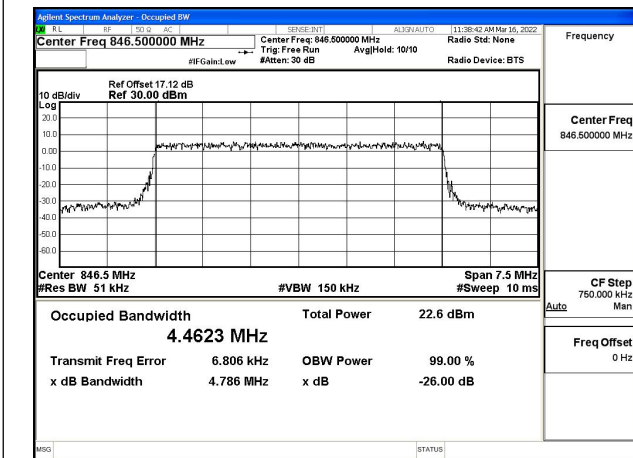


Fig.9

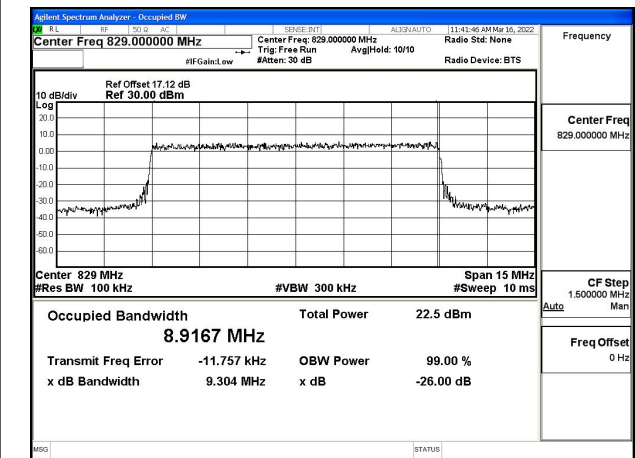


Fig.10

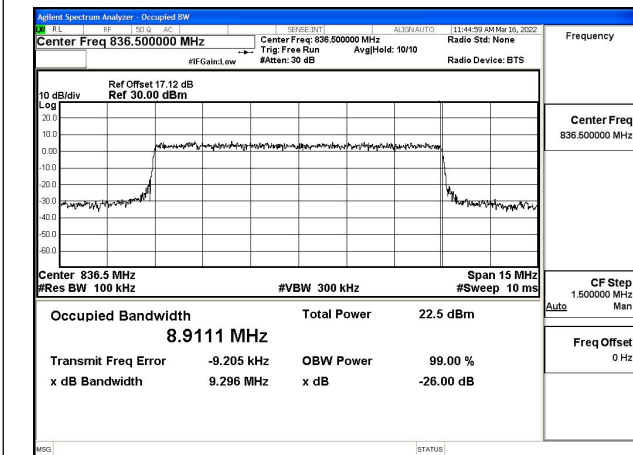


Fig.11

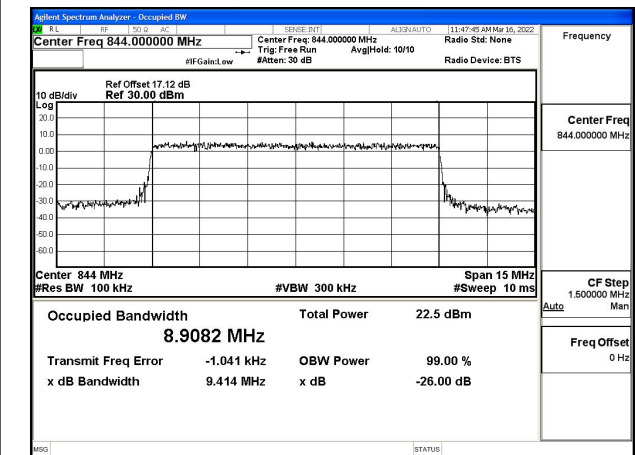


Fig.12

Test Mode: 16QAM

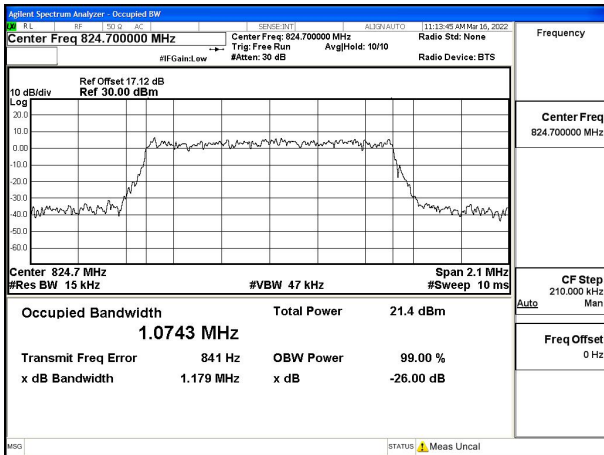


Fig. 13

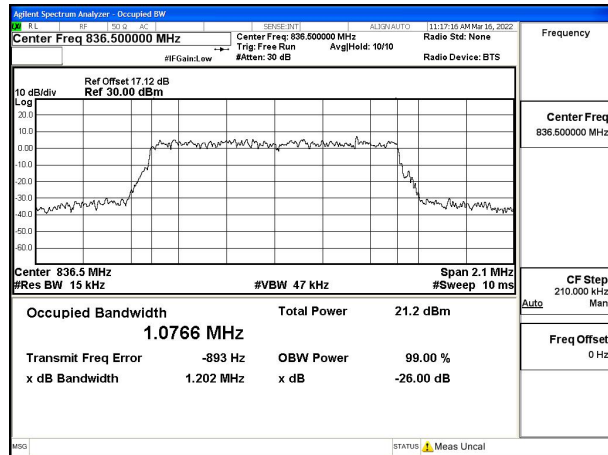


Fig. 14

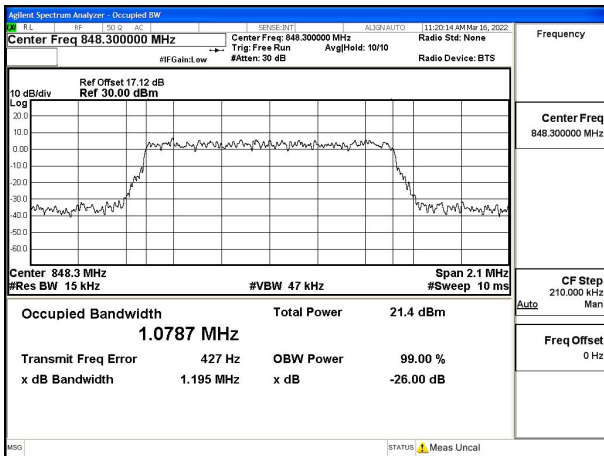


Fig. 15

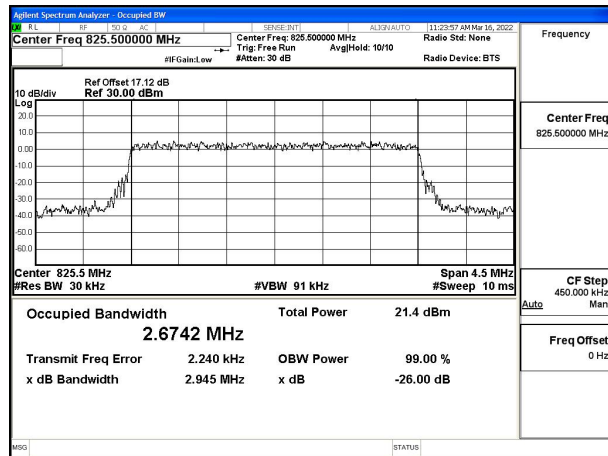


Fig. 16

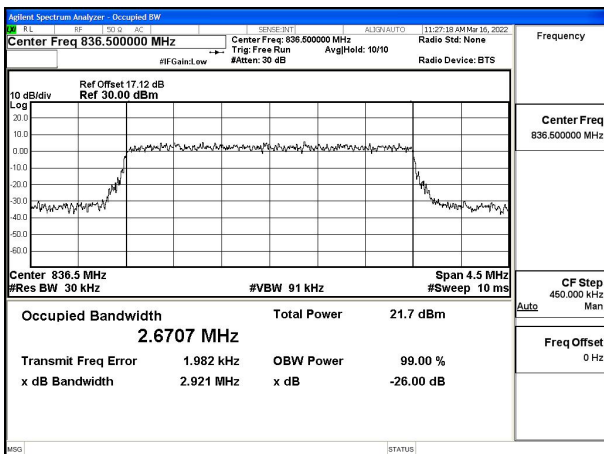


Fig. 17

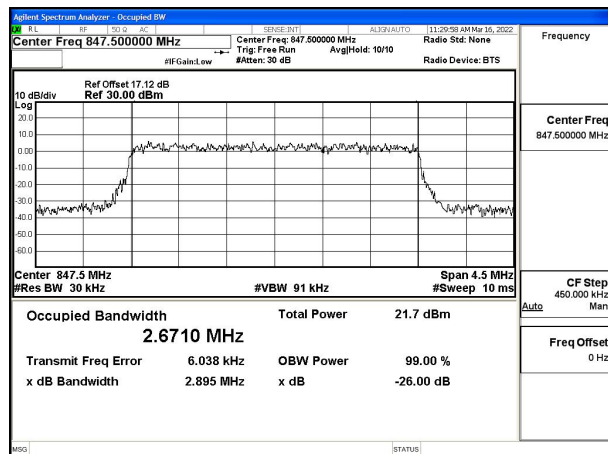


Fig. 18

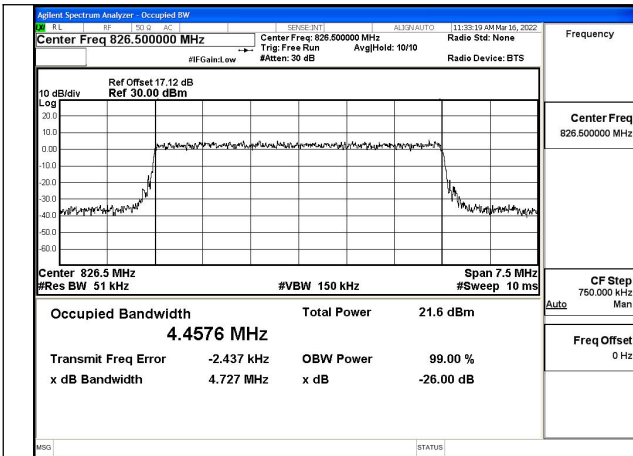


Fig.19

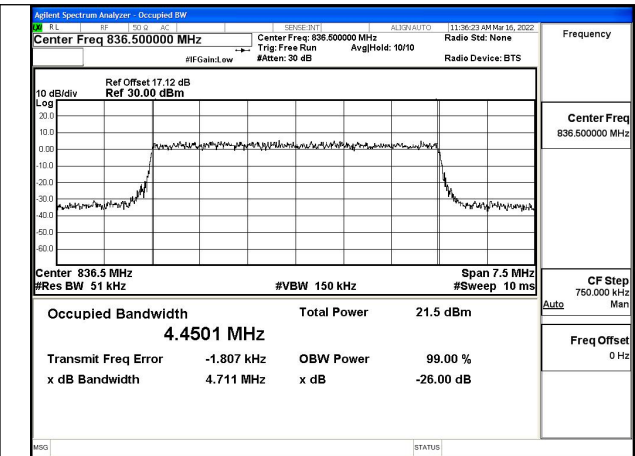


Fig.20

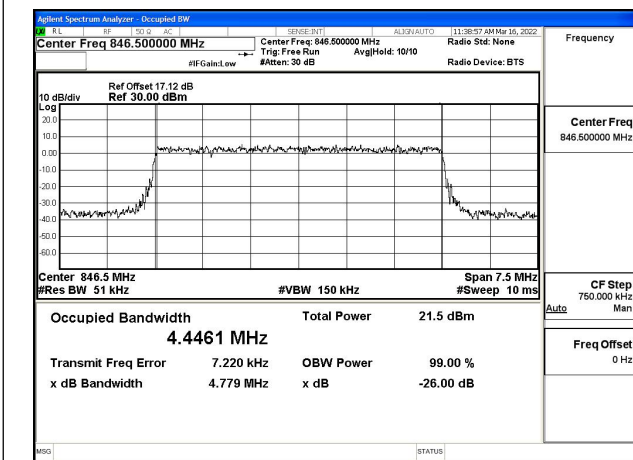


Fig.21

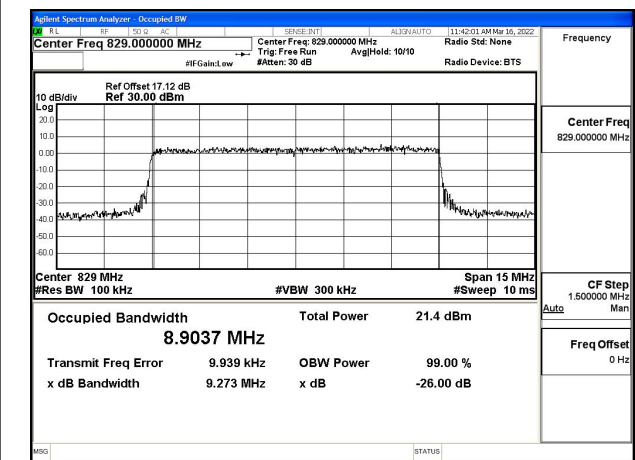


Fig.22

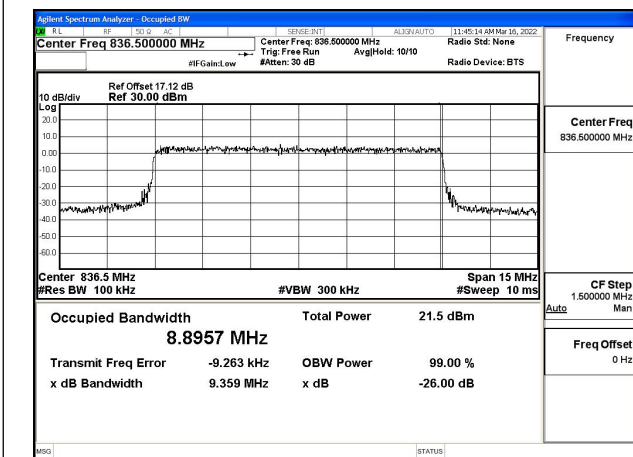


Fig.23

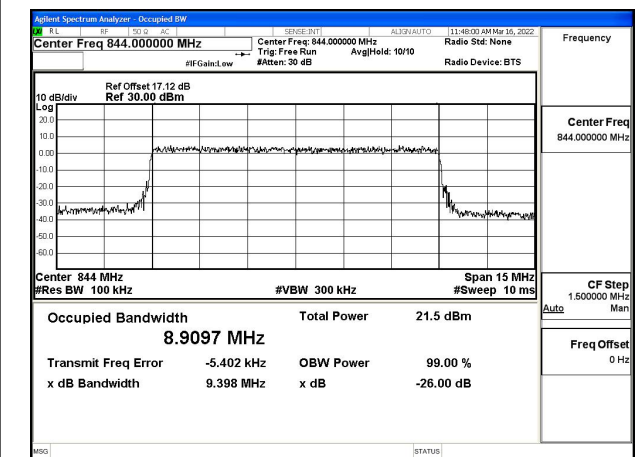


Fig.24

Test Mode: 64QAM

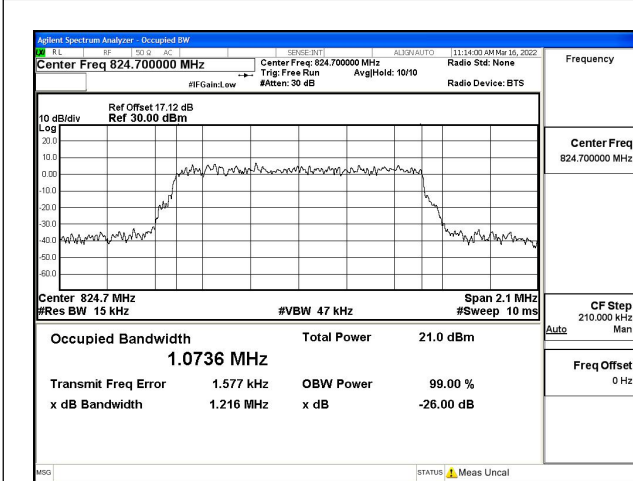


Fig.25

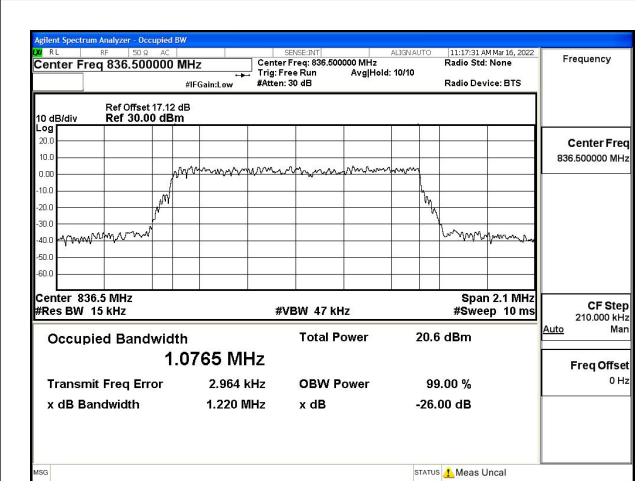


Fig.26

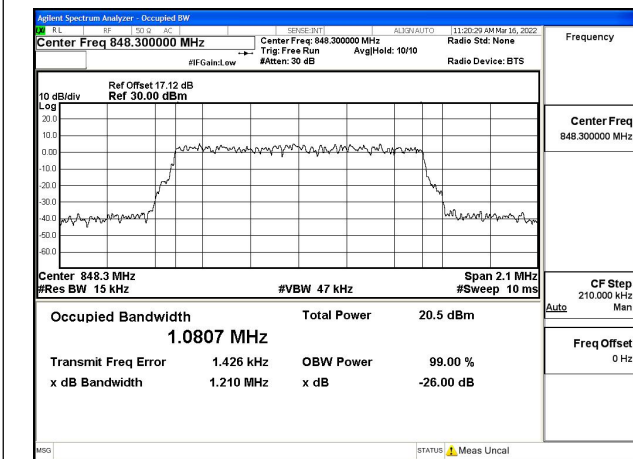


Fig.27

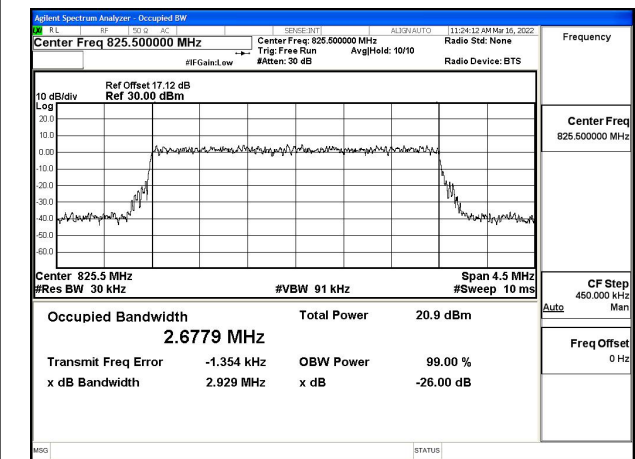


Fig.28

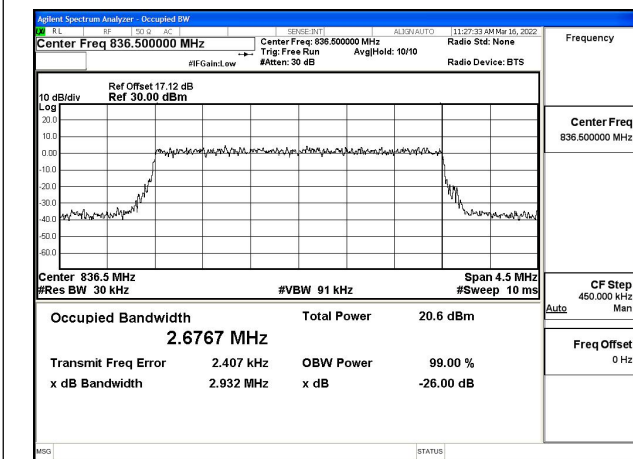


Fig.29

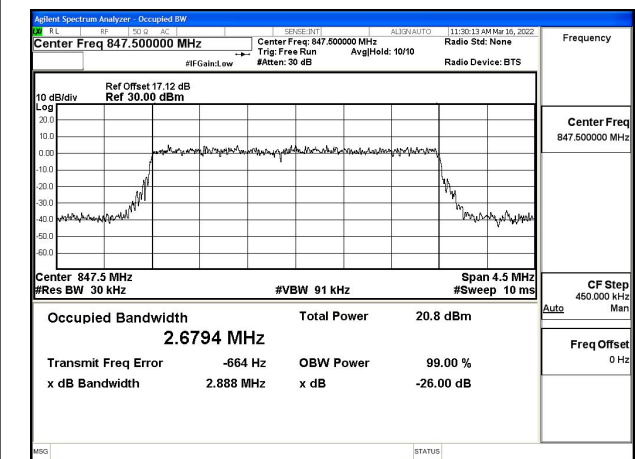


Fig.30

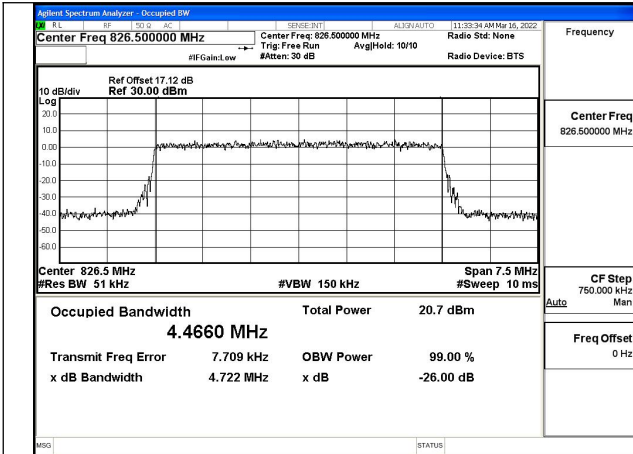


Fig.31

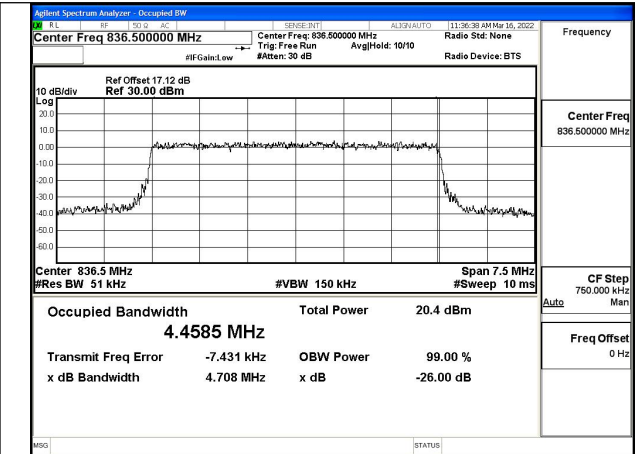


Fig.32

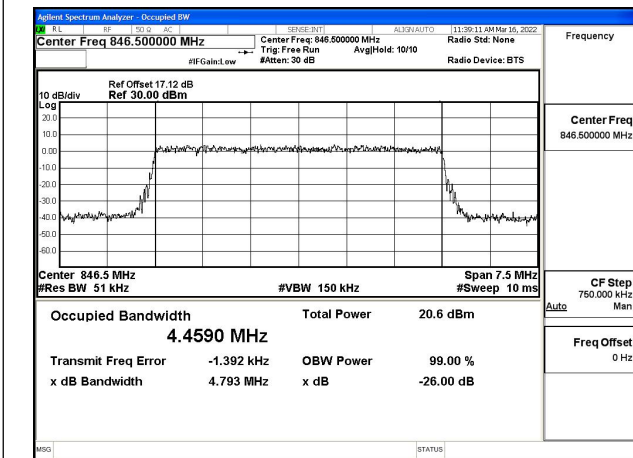


Fig.33

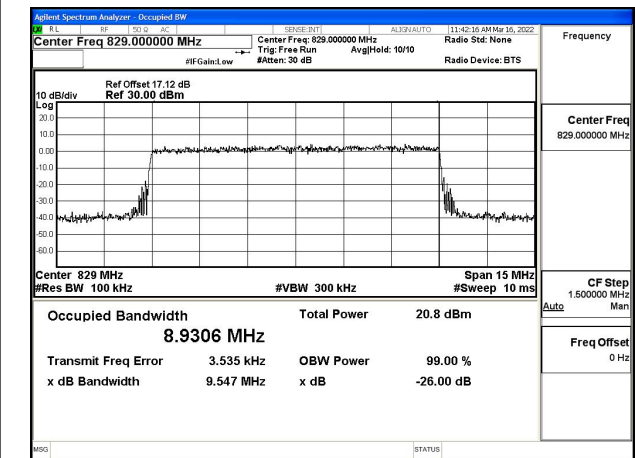


Fig.34

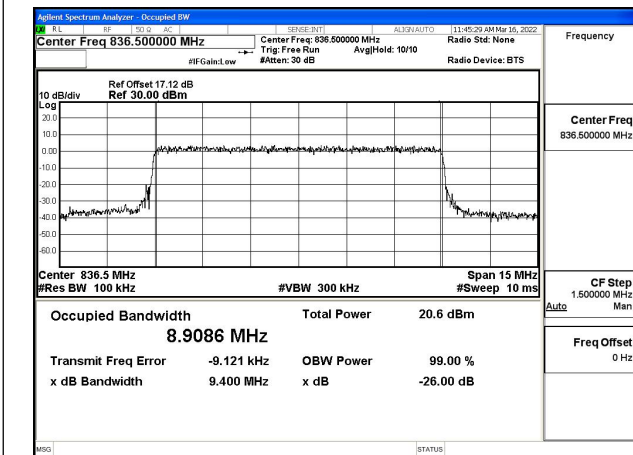


Fig.35

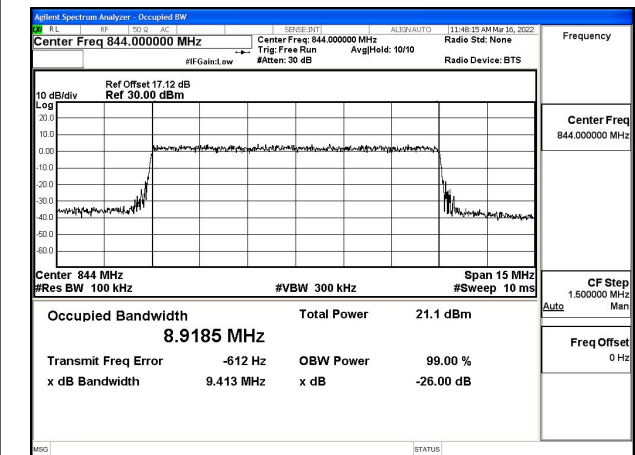


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.220	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.210	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.210	Fig.3
5	QPSK	825.5	20415	3	15	0	2.930	Fig.4
5	QPSK	836.5	20525	3	15	0	2.960	Fig.5
5	QPSK	847.5	20635	3	15	0	2.910	Fig.6
5	QPSK	826.5	20425	5	25	0	4.800	Fig.7
5	QPSK	836.5	20525	5	25	0	4.780	Fig.8
5	QPSK	846.5	20625	5	25	0	4.790	Fig.9
5	QPSK	829	20450	10	50	0	9.300	Fig.10
5	QPSK	836.5	20525	10	50	0	9.300	Fig.11
5	QPSK	844	20600	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)	
5	16QAM	824.7	20407	1.4	6	0	1.180	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.200	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.200	Fig.15
5	16QAM	825.5	20415	3	15	0	2.940	Fig.16
5	16QAM	836.5	20525	3	15	0	2.920	Fig.17
5	16QAM	847.5	20635	3	15	0	2.900	Fig.18
5	16QAM	826.5	20425	5	25	0	4.730	Fig.19
5	16QAM	836.5	20525	5	25	0	4.710	Fig.20
5	16QAM	846.5	20625	5	25	0	4.780	Fig.21
5	16QAM	829	20450	10	50	0	9.270	Fig.22
5	16QAM	836.5	20525	10	50	0	9.360	Fig.23
5	16QAM	844	20600	10	50	0	9.400	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.220	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.220	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.210	Fig.27
5	64QAM	825.5	20415	3	15	0	2.930	Fig.28
5	64QAM	836.5	20525	3	15	0	2.930	Fig.29
5	64QAM	847.5	20635	3	15	0	2.890	Fig.30
5	64QAM	826.5	20425	5	25	0	4.720	Fig.31
5	64QAM	836.5	20525	5	25	0	4.710	Fig.32
5	64QAM	846.5	20625	5	25	0	4.790	Fig.33
5	64QAM	829	20450	10	50	0	9.550	Fig.34
5	64QAM	836.5	20525	10	50	0	9.400	Fig.35
5	64QAM	844	20600	10	50	0	9.410	Fig.36

Test Mode: QPSK

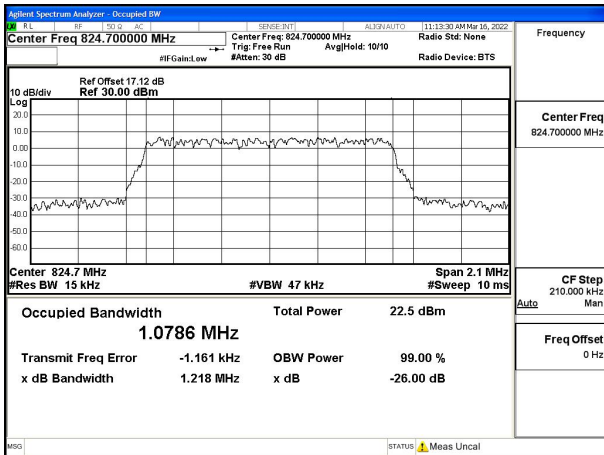


Fig.1

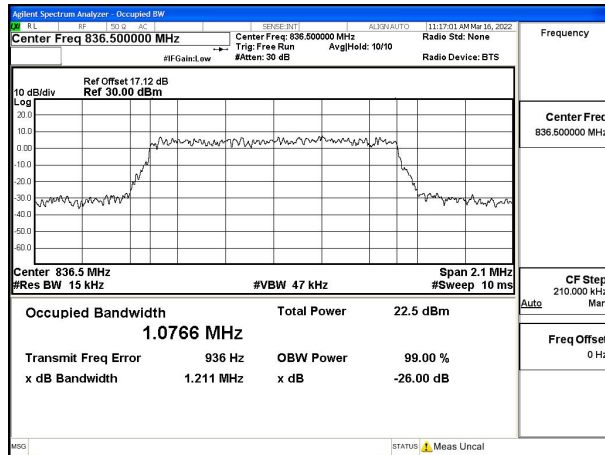


Fig.2

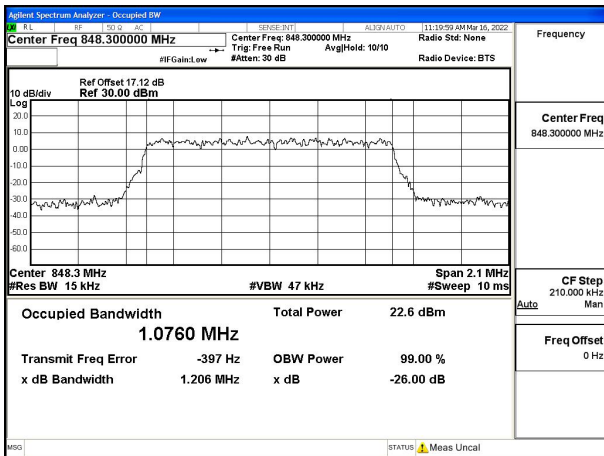


Fig.3

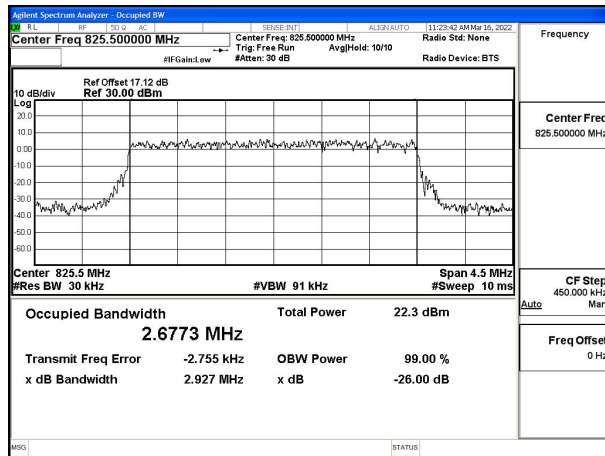


Fig.4

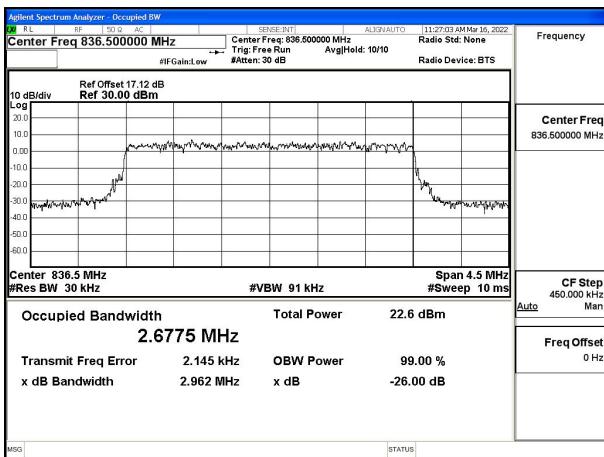


Fig.5

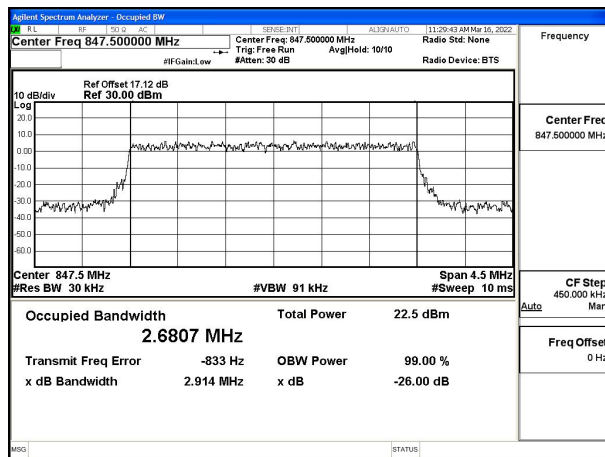


Fig.6