

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	23.39
QPSK	824.7	20407	1.4	1	3	23.46
QPSK	824.7	20407	1.4	1	5	23.45
QPSK	824.7	20407	1.4	3	0	23.56
QPSK	824.7	20407	1.4	3	1	23.59
QPSK	824.7	20407	1.4	3	3	23.54
QPSK	824.7	20407	1.4	6	0	22.48
QPSK	836.5	20525	1.4	1	0	23.45
QPSK	836.5	20525	1.4	1	3	23.36
QPSK	836.5	20525	1.4	1	5	23.38
QPSK	836.5	20525	1.4	3	0	23.56
QPSK	836.5	20525	1.4	3	1	23.61
QPSK	836.5	20525	1.4	3	3	23.56
QPSK	836.5	20525	1.4	6	0	22.44
QPSK	848.3	20643	1.4	1	0	23.62
QPSK	848.3	20643	1.4	1	3	23.74
QPSK	848.3	20643	1.4	1	5	23.72
QPSK	848.3	20643	1.4	3	0	23.60
QPSK	848.3	20643	1.4	3	1	23.70
QPSK	848.3	20643	1.4	3	3	23.58
QPSK	848.3	20643	1.4	6	0	22.65

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.81
16QAM	824.7	20407	1.4	1	3	22.85
16QAM	824.7	20407	1.4	1	5	22.98
16QAM	824.7	20407	1.4	3	0	22.78
16QAM	824.7	20407	1.4	3	1	22.87
16QAM	824.7	20407	1.4	3	3	23.05
16QAM	824.7	20407	1.4	6	0	21.58
16QAM	836.5	20525	1.4	1	0	23.69
16QAM	836.5	20525	1.4	1	3	23.02
16QAM	836.5	20525	1.4	1	5	23.57
16QAM	836.5	20525	1.4	3	0	22.95
16QAM	836.5	20525	1.4	3	1	23.03
16QAM	836.5	20525	1.4	3	3	23.04
16QAM	836.5	20525	1.4	6	0	21.33
16QAM	848.3	20643	1.4	1	0	22.68
16QAM	848.3	20643	1.4	1	3	22.98
16QAM	848.3	20643	1.4	1	5	22.06

16QAM	848.3	20643	1.4	3	0	22.90
16QAM	848.3	20643	1.4	3	1	23.07
16QAM	848.3	20643	1.4	3	3	22.93
16QAM	848.3	20643	1.4	6	0	21.46
64QAM	824.7	20407	1.4	1	0	21.27
64QAM	824.7	20407	1.4	1	3	21.63
64QAM	824.7	20407	1.4	1	5	21.43
64QAM	824.7	20407	1.4	3	0	21.60
64QAM	824.7	20407	1.4	3	1	21.52
64QAM	824.7	20407	1.4	3	3	21.35
64QAM	824.7	20407	1.4	6	0	20.12
64QAM	836.5	20525	1.4	1	0	21.58
64QAM	836.5	20525	1.4	1	3	21.88
64QAM	836.5	20525	1.4	1	5	21.33
64QAM	836.5	20525	1.4	3	0	21.69
64QAM	836.5	20525	1.4	3	1	21.68
64QAM	836.5	20525	1.4	3	3	21.51
64QAM	836.5	20525	1.4	6	0	20.21
64QAM	848.3	20643	1.4	1	0	22.16
64QAM	848.3	20643	1.4	1	3	22.22
64QAM	848.3	20643	1.4	1	5	21.80
64QAM	848.3	20643	1.4	3	0	21.61
64QAM	848.3	20643	1.4	3	1	21.67
64QAM	848.3	20643	1.4	3	3	21.41
64QAM	848.3	20643	1.4	6	0	20.25

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.62
QPSK	825.5	20415	3	1	8	23.51
QPSK	825.5	20415	3	1	14	23.34
QPSK	825.5	20415	3	8	0	22.64
QPSK	825.5	20415	3	8	4	22.55
QPSK	825.5	20415	3	8	7	22.50
QPSK	825.5	20415	3	15	0	22.51
QPSK	836.5	20525	3	1	0	23.73
QPSK	836.5	20525	3	1	8	23.57
QPSK	836.5	20525	3	1	14	23.41
QPSK	836.5	20525	3	8	0	22.26
QPSK	836.5	20525	3	8	4	22.61
QPSK	836.5	20525	3	8	7	22.49
QPSK	836.5	20525	3	15	0	22.46
QPSK	847.5	20635	3	1	0	23.53
QPSK	847.5	20635	3	1	8	23.51
QPSK	847.5	20635	3	1	14	23.46
QPSK	847.5	20635	3	8	0	22.71

QPSK	847.5	20635	3	8	4	22.57
QPSK	847.5	20635	3	8	7	22.68
QPSK	847.5	20635	3	15	0	22.54

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	23.09
16QAM	825.5	20415	3	1	8	23.14
16QAM	825.5	20415	3	1	14	23.26
16QAM	825.5	20415	3	8	0	21.86
16QAM	825.5	20415	3	8	4	21.91
16QAM	825.5	20415	3	8	7	21.87
16QAM	825.5	20415	3	15	0	21.66
16QAM	836.5	20525	3	1	0	23.59
16QAM	836.5	20525	3	1	8	22.99
16QAM	836.5	20525	3	1	14	23.12
16QAM	836.5	20525	3	8	0	21.78
16QAM	836.5	20525	3	8	4	21.87
16QAM	836.5	20525	3	8	7	21.73
16QAM	836.5	20525	3	15	0	21.67
16QAM	847.5	20635	3	1	0	23.38
16QAM	847.5	20635	3	1	8	23.58
16QAM	847.5	20635	3	1	14	23.43
16QAM	847.5	20635	3	8	0	21.93
16QAM	847.5	20635	3	8	4	21.93
16QAM	847.5	20635	3	8	7	21.86
16QAM	847.5	20635	3	15	0	21.77
64QAM	825.5	20415	3	1	0	21.62
64QAM	825.5	20415	3	1	8	21.73
64QAM	825.5	20415	3	1	14	21.56
64QAM	825.5	20415	3	8	0	19.95
64QAM	825.5	20415	3	8	4	20.09
64QAM	825.5	20415	3	8	7	20.03
64QAM	825.5	20415	3	15	0	20.30
64QAM	836.5	20525	3	1	0	22.53
64QAM	836.5	20525	3	1	8	22.29
64QAM	836.5	20525	3	1	14	21.88
64QAM	836.5	20525	3	8	0	19.97
64QAM	836.5	20525	3	8	4	20.25
64QAM	836.5	20525	3	8	7	20.26
64QAM	836.5	20525	3	15	0	20.30
64QAM	847.5	20635	3	1	0	21.96
64QAM	847.5	20635	3	1	8	21.64
64QAM	847.5	20635	3	1	14	21.82
64QAM	847.5	20635	3	8	0	20.10
64QAM	847.5	20635	3	8	4	20.27

64QAM	847.5	20635	3	8	7	20.23
64QAM	847.5	20635	3	15	0	20.38

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.36
QPSK	826.5	20425	5	1	12	23.54
QPSK	826.5	20425	5	1	24	23.58
QPSK	826.5	20425	5	12	0	22.54
QPSK	826.5	20425	5	12	7	22.36
QPSK	826.5	20425	5	12	13	22.60
QPSK	826.5	20425	5	25	0	22.32
QPSK	836.5	20525	5	1	0	23.58
QPSK	836.5	20525	5	1	12	23.48
QPSK	836.5	20525	5	1	24	23.59
QPSK	836.5	20525	5	12	0	22.53
QPSK	836.5	20525	5	12	7	22.60
QPSK	836.5	20525	5	12	13	22.52
QPSK	836.5	20525	5	25	0	22.48
QPSK	846.5	20625	5	1	0	23.83
QPSK	846.5	20625	5	1	12	23.89
QPSK	846.5	20625	5	1	24	23.97
QPSK	846.5	20625	5	12	0	22.62
QPSK	846.5	20625	5	12	7	22.65
QPSK	846.5	20625	5	12	13	22.52
QPSK	846.5	20625	5	25	0	22.74

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	23.03
16QAM	826.5	20425	5	1	12	23.10
16QAM	826.5	20425	5	1	24	22.89
16QAM	826.5	20425	5	12	0	21.62
16QAM	826.5	20425	5	12	7	21.57
16QAM	826.5	20425	5	12	13	21.57
16QAM	826.5	20425	5	25	0	21.60
16QAM	836.5	20525	5	1	0	23.50
16QAM	836.5	20525	5	1	12	23.61
16QAM	836.5	20525	5	1	24	23.22
16QAM	836.5	20525	5	12	0	21.68
16QAM	836.5	20525	5	12	7	21.85
16QAM	836.5	20525	5	12	13	21.89
16QAM	836.5	20525	5	25	0	21.49
16QAM	846.5	20625	5	1	0	22.92
16QAM	846.5	20625	5	1	12	23.15
16QAM	846.5	20625	5	1	24	22.90

16QAM	846.5	20625	5	12	0	21.72
16QAM	846.5	20625	5	12	7	21.85
16QAM	846.5	20625	5	12	13	21.85
16QAM	846.5	20625	5	25	0	21.97
64QAM	826.5	20425	5	1	0	21.70
64QAM	826.5	20425	5	1	12	21.64
64QAM	826.5	20425	5	1	24	20.97
64QAM	826.5	20425	5	12	0	20.43
64QAM	826.5	20425	5	12	7	20.04
64QAM	826.5	20425	5	12	13	20.08
64QAM	826.5	20425	5	25	0	20.06
64QAM	836.5	20525	5	1	0	21.51
64QAM	836.5	20525	5	1	12	21.77
64QAM	836.5	20525	5	1	24	21.88
64QAM	836.5	20525	5	12	0	20.02
64QAM	836.5	20525	5	12	7	20.14
64QAM	836.5	20525	5	12	13	20.15
64QAM	836.5	20525	5	25	0	20.19
64QAM	846.5	20625	5	1	0	22.31
64QAM	846.5	20625	5	1	12	22.53
64QAM	846.5	20625	5	1	24	22.03
64QAM	846.5	20625	5	12	0	20.39
64QAM	846.5	20625	5	12	7	20.41
64QAM	846.5	20625	5	12	13	20.16
64QAM	846.5	20625	5	25	0	20.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.86
QPSK	829	20450	10	1	25	23.87
QPSK	829	20450	10	1	49	23.75
QPSK	829	20450	10	25	0	22.47
QPSK	829	20450	10	25	12	22.54
QPSK	829	20450	10	25	25	22.33
QPSK	829	20450	10	50	0	22.55
QPSK	836.5	20525	10	1	0	23.91
QPSK	836.5	20525	10	1	25	23.52
QPSK	836.5	20525	10	1	49	23.60
QPSK	836.5	20525	10	25	0	22.60
QPSK	836.5	20525	10	25	12	22.52
QPSK	836.5	20525	10	25	25	22.49
QPSK	836.5	20525	10	50	0	22.45
QPSK	844	20600	10	1	0	23.57
QPSK	844	20600	10	1	25	23.76
QPSK	844	20600	10	1	49	23.69
QPSK	844	20600	10	25	0	22.46

QPSK	844	20600	10	25	12	22.61
QPSK	844	20600	10	25	25	22.74
QPSK	844	20600	10	50	0	22.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	23.09
16QAM	829	20450	10	1	25	22.73
16QAM	829	20450	10	1	49	23.03
16QAM	829	20450	10	25	0	21.85
16QAM	829	20450	10	25	12	21.78
16QAM	829	20450	10	25	25	21.97
16QAM	829	20450	10	50	0	21.55
16QAM	836.5	20525	10	1	0	23.12
16QAM	836.5	20525	10	1	25	22.97
16QAM	836.5	20525	10	1	49	23.22
16QAM	836.5	20525	10	25	0	21.67
16QAM	836.5	20525	10	25	12	21.75
16QAM	836.5	20525	10	25	25	21.54
16QAM	836.5	20525	10	50	0	21.56
16QAM	844	20600	10	1	0	23.09
16QAM	844	20600	10	1	25	23.51
16QAM	844	20600	10	1	49	23.29
16QAM	844	20600	10	25	0	21.54
16QAM	844	20600	10	25	12	21.69
16QAM	844	20600	10	25	25	21.73
16QAM	844	20600	10	50	0	21.78
64QAM	829	20450	10	1	0	21.48
64QAM	829	20450	10	1	25	21.97
64QAM	829	20450	10	1	49	21.44
64QAM	829	20450	10	25	0	20.08
64QAM	829	20450	10	25	12	20.52
64QAM	829	20450	10	25	25	20.18
64QAM	829	20450	10	50	0	20.04
64QAM	836.5	20525	10	1	0	21.57
64QAM	836.5	20525	10	1	25	21.30
64QAM	836.5	20525	10	1	49	21.97
64QAM	836.5	20525	10	25	0	20.16
64QAM	836.5	20525	10	25	12	20.10
64QAM	836.5	20525	10	25	25	20.24
64QAM	836.5	20525	10	50	0	20.09
64QAM	844	20600	10	1	0	21.67
64QAM	844	20600	10	1	25	21.73
64QAM	844	20600	10	1	49	21.33
64QAM	844	20600	10	25	0	20.20
64QAM	844	20600	10	25	12	20.30

64QAM	844	20600	10	25	25	20.13
64QAM	844	20600	10	50	0	20.22

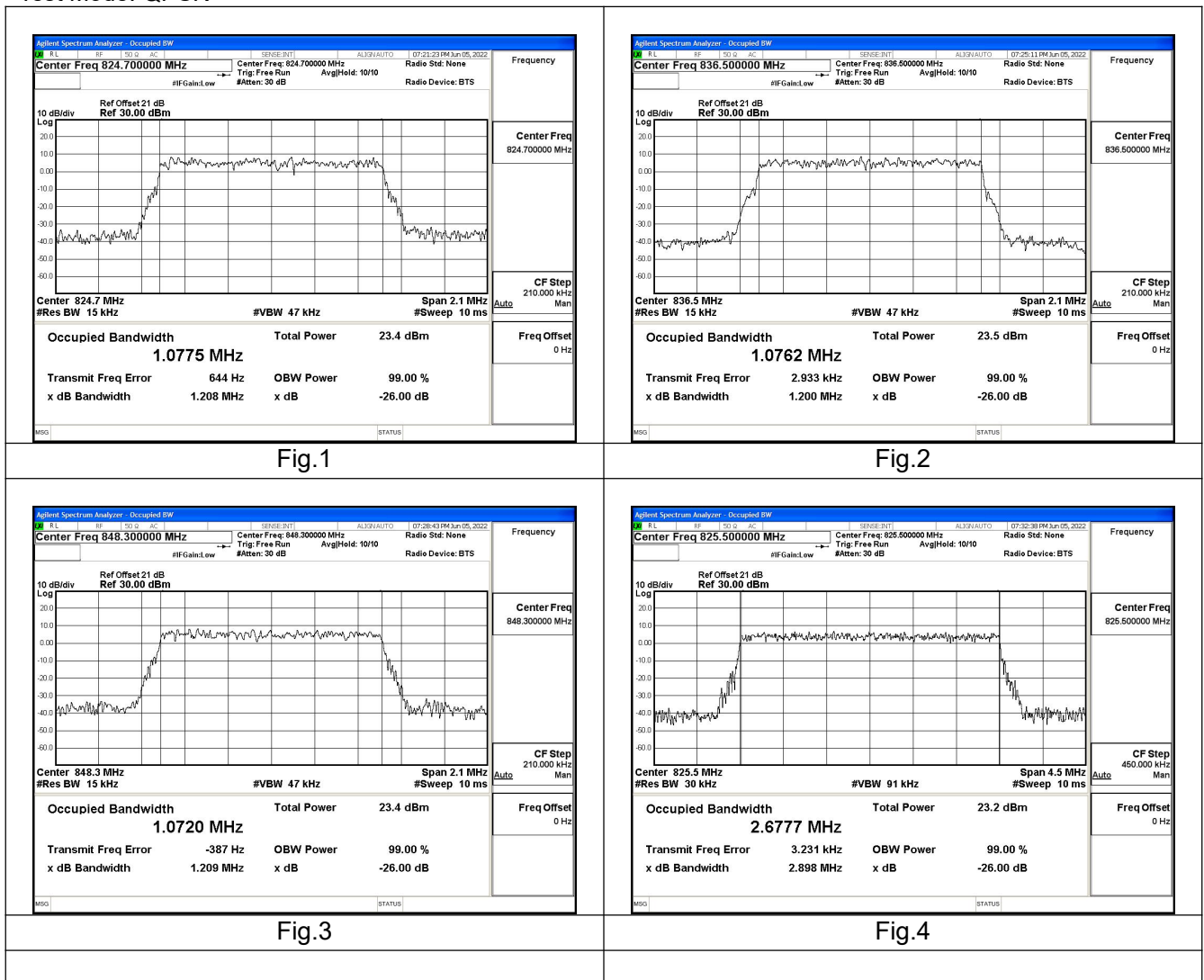
2 Occupied Bandwidth

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	2.680	Fig.4
5	QPSK	836.5	20525	3	15	0	2.670	Fig.5
5	QPSK	847.5	20635	3	15	0	2.680	Fig.6
5	QPSK	826.5	20425	5	25	0	4.460	Fig.7
5	QPSK	836.5	20525	5	25	0	4.450	Fig.8
5	QPSK	846.5	20625	5	25	0	4.470	Fig.9
5	QPSK	829	20450	10	50	0	8.930	Fig.10
5	QPSK	836.5	20525	10	50	0	8.900	Fig.11
5	QPSK	844	20600	10	50	0	8.900	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	1.080	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	4.460	Fig.20
5	16QAM	846.5	20625	5	25	0	4.450	Fig.21
5	16QAM	829	20450	10	50	0	8.910	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

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	4.450	Fig.31
5	64QAM	836.5	20525	5	25	0	4.460	Fig.32
5	64QAM	846.5	20625	5	25	0	4.450	Fig.33
5	64QAM	829	20450	10	50	0	8.930	Fig.34
5	64QAM	836.5	20525	10	50	0	8.940	Fig.35
5	64QAM	844	20600	10	50	0	8.920	Fig.36

Test Mode: QPSK



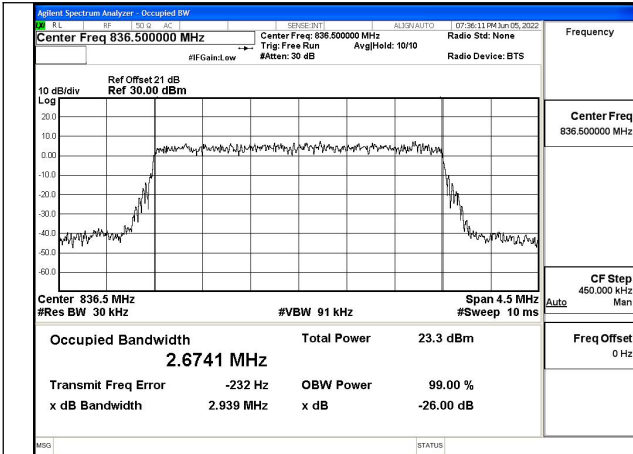


Fig.5

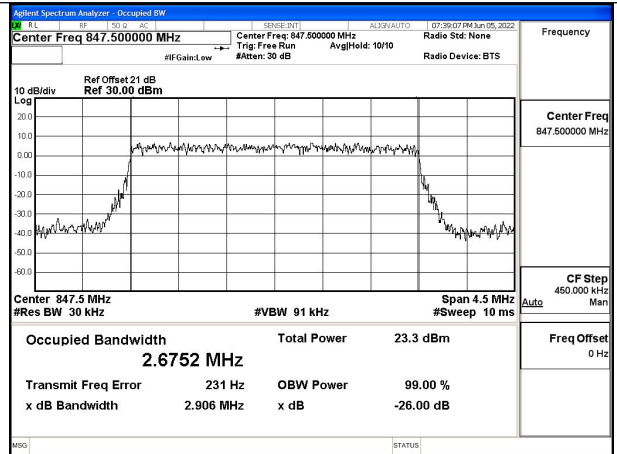


Fig.6

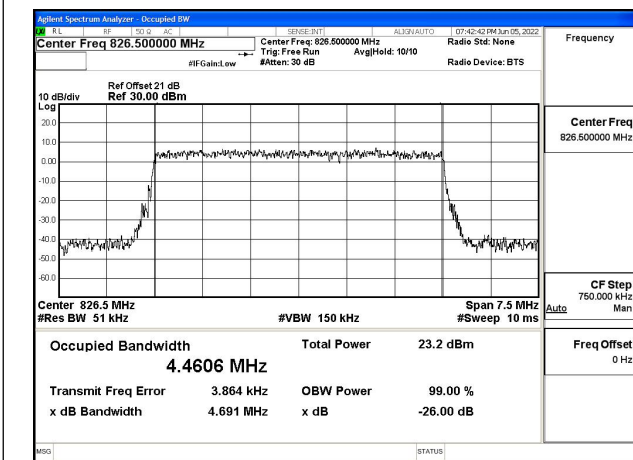


Fig.7

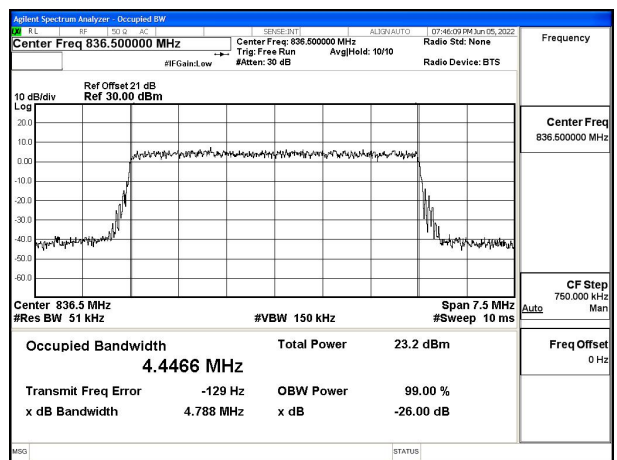


Fig.8

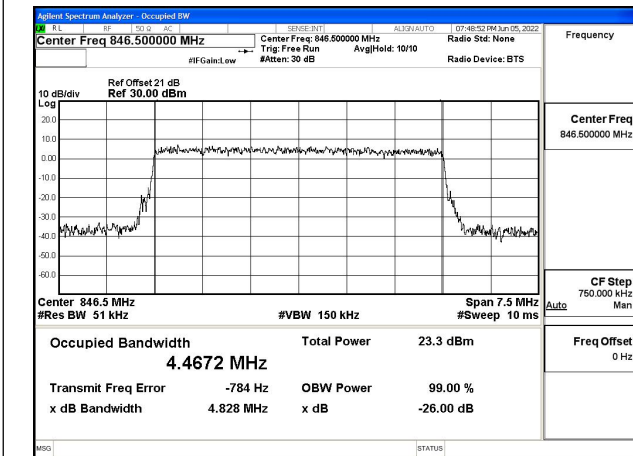


Fig.9

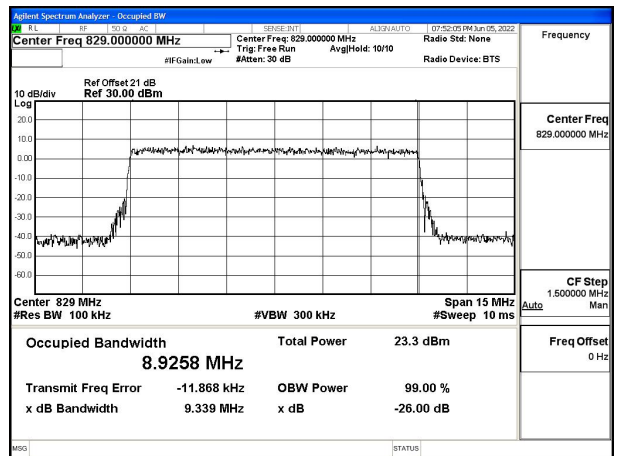


Fig.10

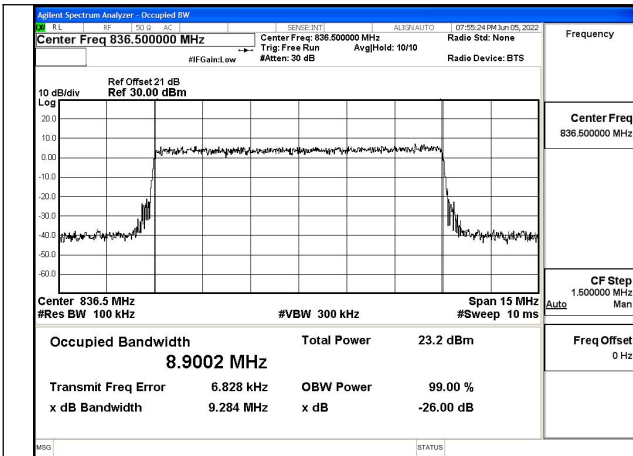


Fig. 11

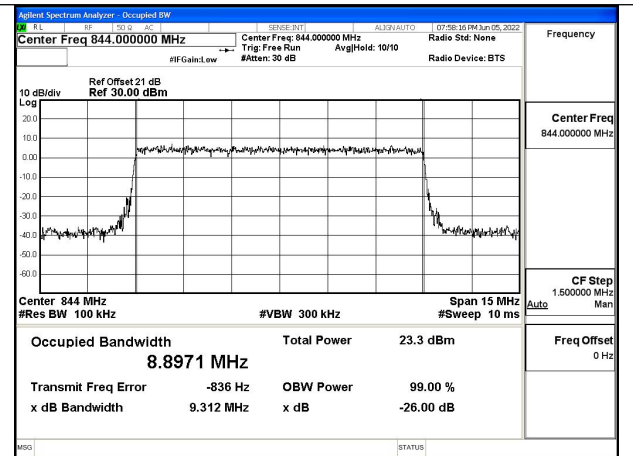


Fig. 12

Test Mode: 16QAM

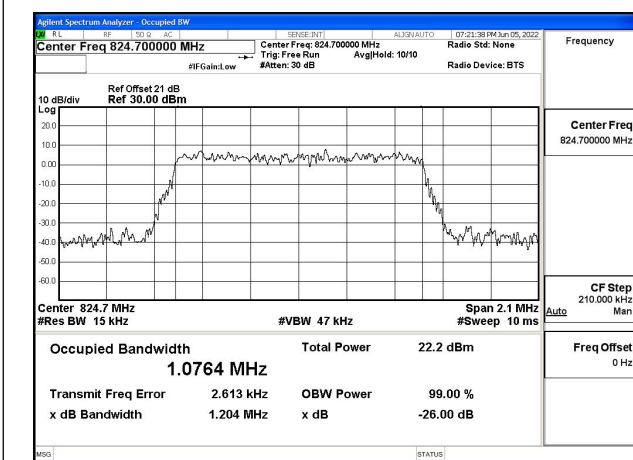


Fig. 13

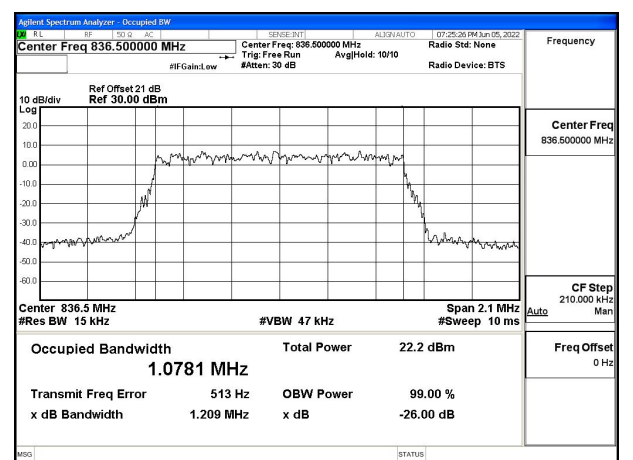


Fig. 14

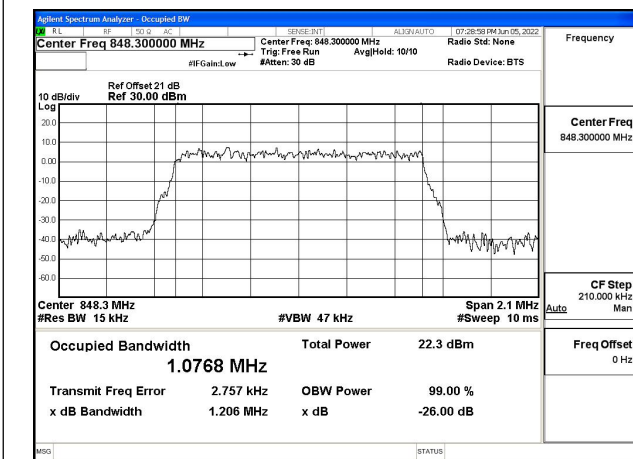


Fig. 15

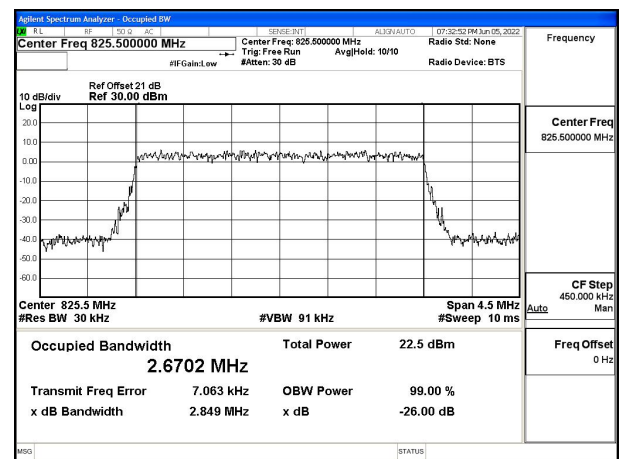


Fig. 16

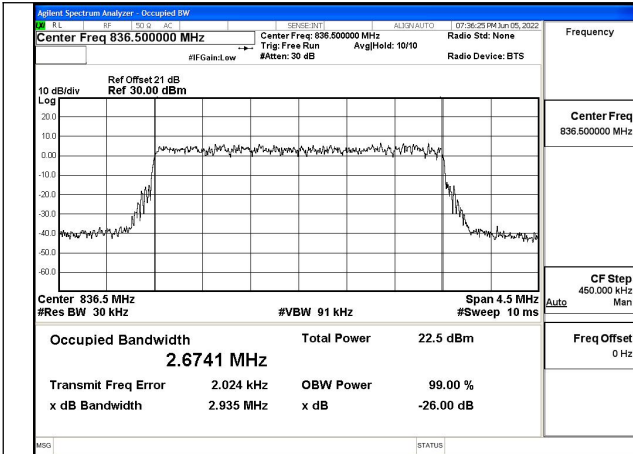


Fig.17

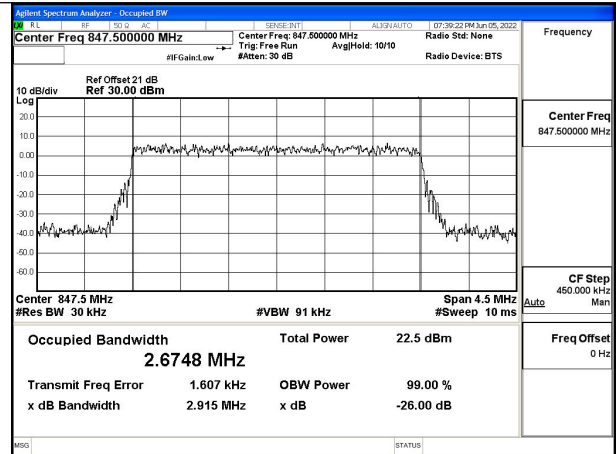


Fig.18

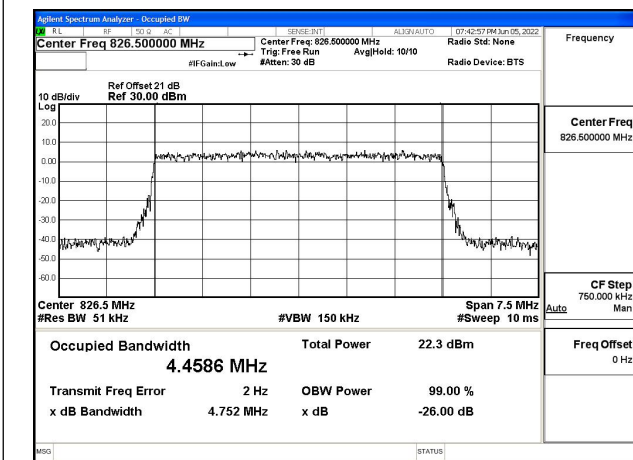


Fig.19

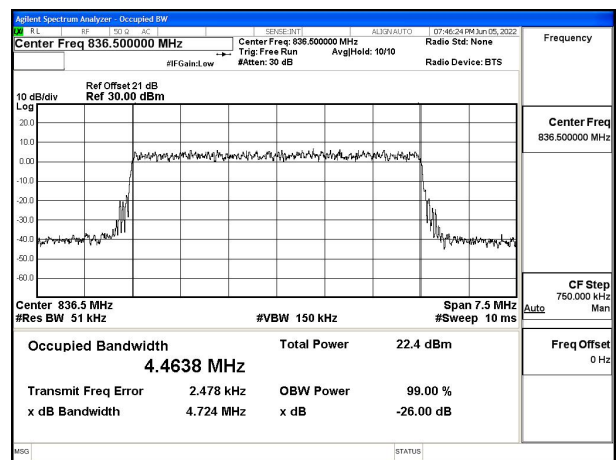


Fig.20

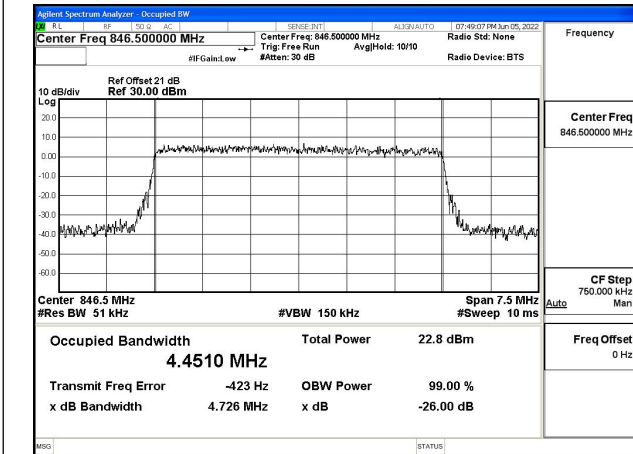


Fig.21

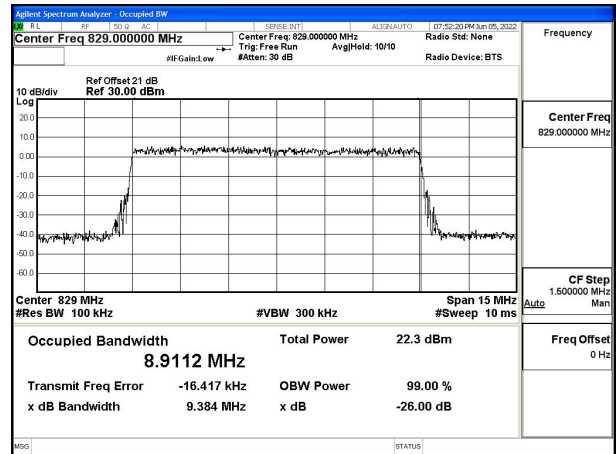


Fig.22

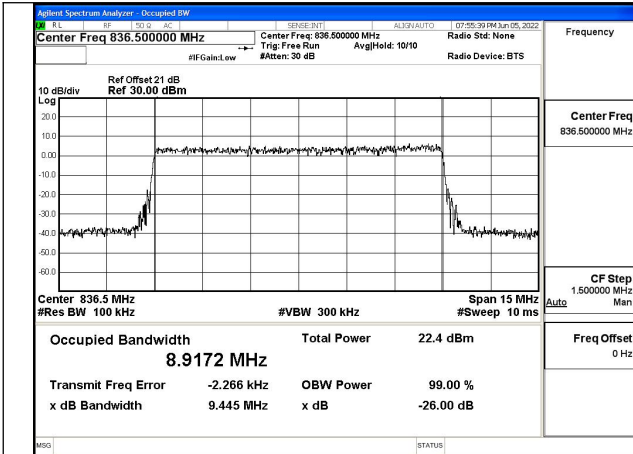


Fig.23

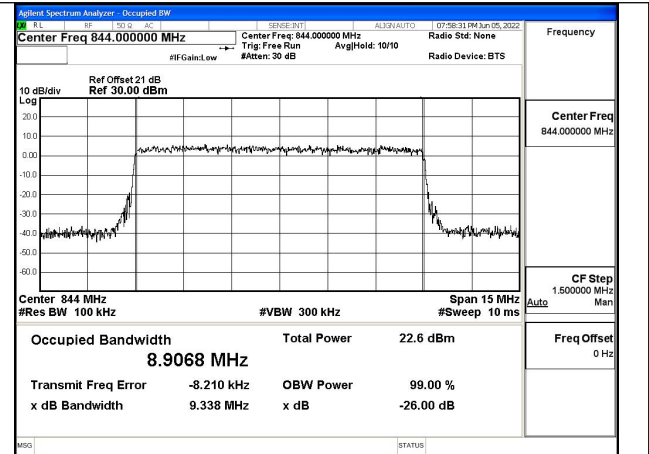


Fig.24

Test Mode: 64QAM

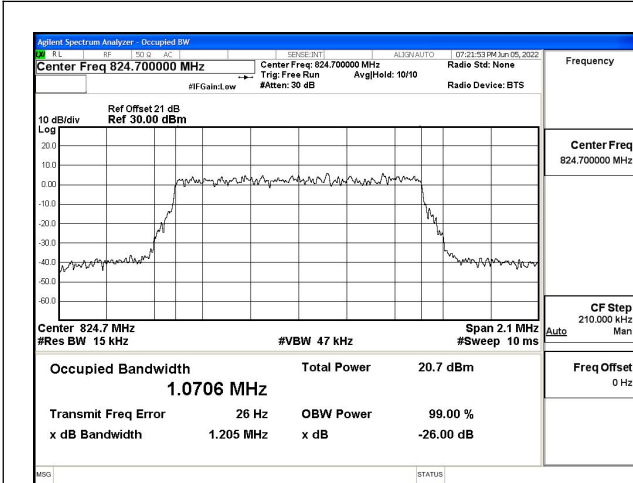


Fig.25

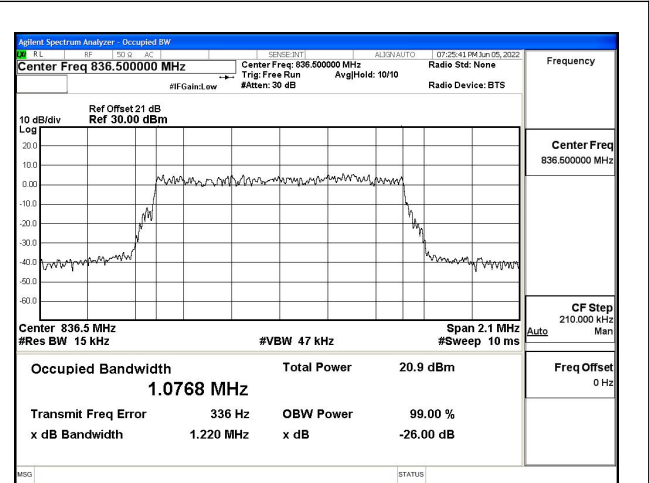


Fig.26

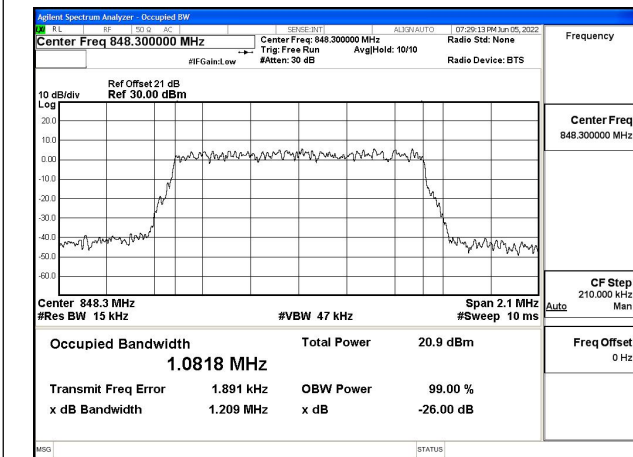


Fig.27

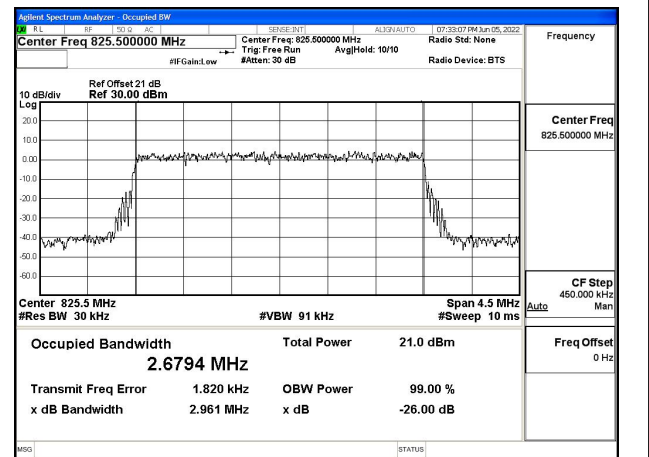


Fig.28

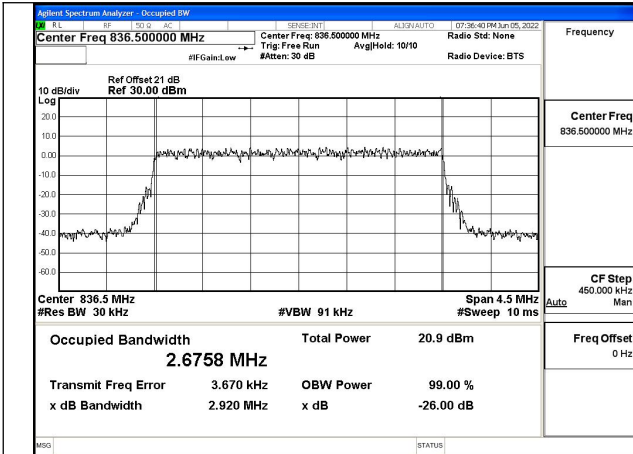


Fig.29

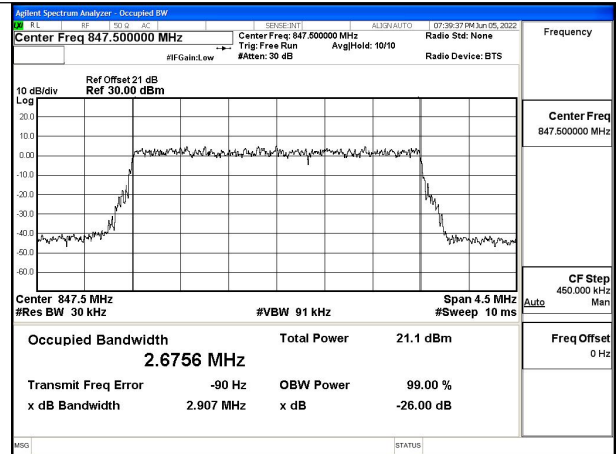


Fig.30

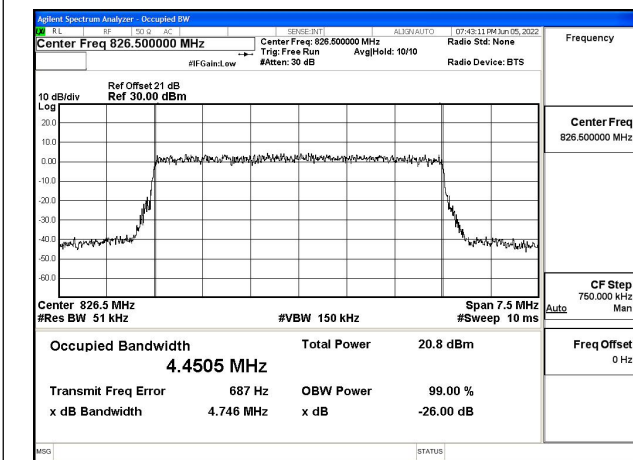


Fig.31

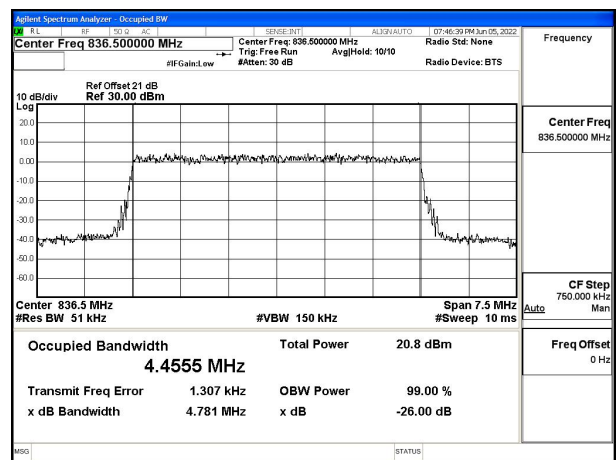


Fig.32

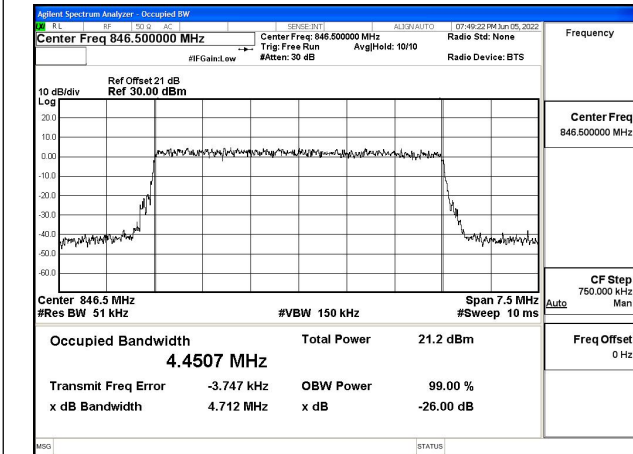


Fig.33

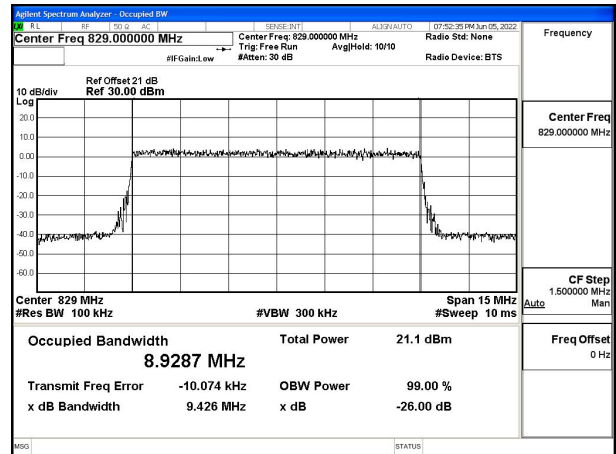


Fig.34

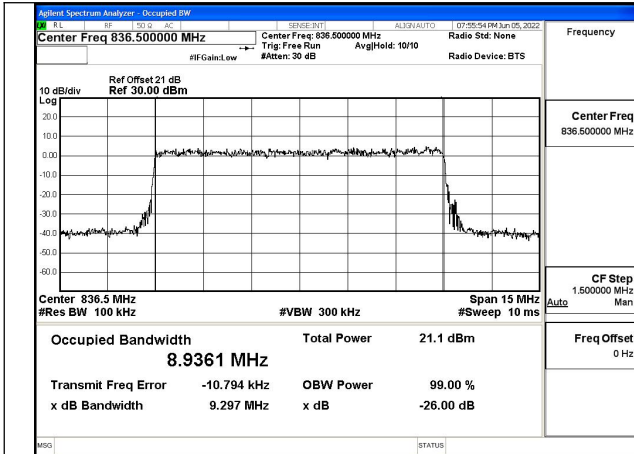


Fig.35

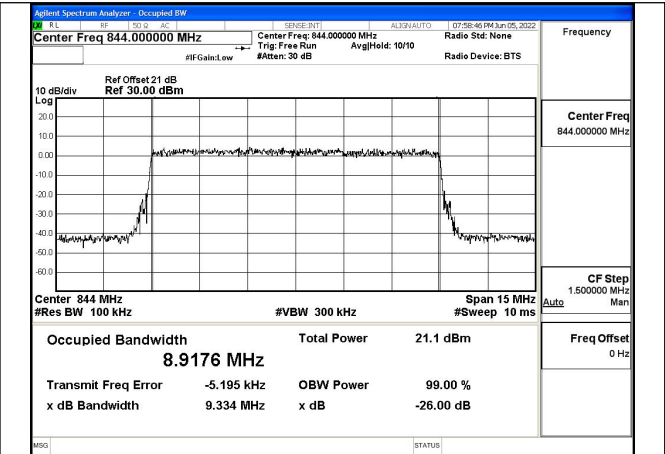


Fig.36

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	1.210	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.200	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.210	Fig.3
5	QPSK	825.5	20415	3	15	0	2.900	Fig.4
5	QPSK	836.5	20525	3	15	0	2.940	Fig.5
5	QPSK	847.5	20635	3	15	0	2.910	Fig.6
5	QPSK	826.5	20425	5	25	0	4.690	Fig.7
5	QPSK	836.5	20525	5	25	0	4.790	Fig.8
5	QPSK	846.5	20625	5	25	0	4.830	Fig.9
5	QPSK	829	20450	10	50	0	9.340	Fig.10
5	QPSK	836.5	20525	10	50	0	9.280	Fig.11
5	QPSK	844	20600	10	50	0	9.310	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	1.210	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.210	Fig.15
5	16QAM	825.5	20415	3	15	0	2.850	Fig.16
5	16QAM	836.5	20525	3	15	0	2.940	Fig.17
5	16QAM	847.5	20635	3	15	0	2.920	Fig.18
5	16QAM	826.5	20425	5	25	0	4.750	Fig.19
5	16QAM	836.5	20525	5	25	0	4.720	Fig.20
5	16QAM	846.5	20625	5	25	0	4.730	Fig.21
5	16QAM	829	20450	10	50	0	9.380	Fig.22
5	16QAM	836.5	20525	10	50	0	9.440	Fig.23
5	16QAM	844	20600	10	50	0	9.340	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	1.200	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	2.960	Fig.28
5	64QAM	836.5	20525	3	15	0	2.920	Fig.29
5	64QAM	847.5	20635	3	15	0	2.910	Fig.30
5	64QAM	826.5	20425	5	25	0	4.750	Fig.31
5	64QAM	836.5	20525	5	25	0	4.780	Fig.32
5	64QAM	846.5	20625	5	25	0	4.710	Fig.33
5	64QAM	829	20450	10	50	0	9.430	Fig.34
5	64QAM	836.5	20525	10	50	0	9.300	Fig.35
5	64QAM	844	20600	10	50	0	9.330	Fig.36

Test Mode: QPSK

