

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	23.36
QPSK	824.7	20407	1.4	1	3	23.37
QPSK	824.7	20407	1.4	1	5	23.38
QPSK	824.7	20407	1.4	3	0	23.41
QPSK	824.7	20407	1.4	3	1	23.45
QPSK	824.7	20407	1.4	3	3	23.48
QPSK	824.7	20407	1.4	6	0	22.50
QPSK	836.5	20525	1.4	1	0	23.58
QPSK	836.5	20525	1.4	1	3	23.73
QPSK	836.5	20525	1.4	1	5	23.55
QPSK	836.5	20525	1.4	3	0	23.58
QPSK	836.5	20525	1.4	3	1	23.66
QPSK	836.5	20525	1.4	3	3	23.57
QPSK	836.5	20525	1.4	6	0	22.68
QPSK	848.3	20643	1.4	1	0	23.49
QPSK	848.3	20643	1.4	1	3	23.46
QPSK	848.3	20643	1.4	1	5	23.53
QPSK	848.3	20643	1.4	3	0	23.50
QPSK	848.3	20643	1.4	3	1	23.61
QPSK	848.3	20643	1.4	3	3	23.41
QPSK	848.3	20643	1.4	6	0	22.51

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.47
16QAM	824.7	20407	1.4	1	3	22.69
16QAM	824.7	20407	1.4	1	5	22.68
16QAM	824.7	20407	1.4	3	0	22.51
16QAM	824.7	20407	1.4	3	1	22.36
16QAM	824.7	20407	1.4	3	3	22.72
16QAM	824.7	20407	1.4	6	0	21.45
16QAM	836.5	20525	1.4	1	0	23.29
16QAM	836.5	20525	1.4	1	3	23.22
16QAM	836.5	20525	1.4	1	5	22.85
16QAM	836.5	20525	1.4	3	0	22.56
16QAM	836.5	20525	1.4	3	1	22.48
16QAM	836.5	20525	1.4	3	3	22.75
16QAM	836.5	20525	1.4	6	0	21.55
16QAM	848.3	20643	1.4	1	0	22.57
16QAM	848.3	20643	1.4	1	3	22.67
16QAM	848.3	20643	1.4	1	5	22.62
16QAM	848.3	20643	1.4	3	0	22.60
16QAM	848.3	20643	1.4	3	1	22.58
16QAM	848.3	20643	1.4	3	3	22.41
16QAM	848.3	20643	1.4	6	0	21.77
64QAM	824.7	20407	1.4	1	0	21.66
64QAM	824.7	20407	1.4	1	3	21.64
64QAM	824.7	20407	1.4	1	5	21.56
64QAM	824.7	20407	1.4	3	0	21.74
64QAM	824.7	20407	1.4	3	1	21.64
64QAM	824.7	20407	1.4	3	3	21.74
64QAM	824.7	20407	1.4	6	0	20.51
64QAM	836.5	20525	1.4	1	0	21.76
64QAM	836.5	20525	1.4	1	3	21.64
64QAM	836.5	20525	1.4	1	5	21.52
64QAM	836.5	20525	1.4	3	0	21.83
64QAM	836.5	20525	1.4	3	1	21.60
64QAM	836.5	20525	1.4	3	3	21.61
64QAM	836.5	20525	1.4	6	0	20.57
64QAM	848.3	20643	1.4	1	0	21.84
64QAM	848.3	20643	1.4	1	3	21.40
64QAM	848.3	20643	1.4	1	5	21.58
64QAM	848.3	20643	1.4	3	0	21.61
64QAM	848.3	20643	1.4	3	1	21.71
64QAM	848.3	20643	1.4	3	3	21.55
64QAM	848.3	20643	1.4	6	0	20.67

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.45
QPSK	825.5	20415	3	1	8	23.40
QPSK	825.5	20415	3	1	14	23.53
QPSK	825.5	20415	3	8	0	22.48
QPSK	825.5	20415	3	8	4	22.47
QPSK	825.5	20415	3	8	7	22.53
QPSK	825.5	20415	3	15	0	22.47
QPSK	836.5	20525	3	1	0	23.67
QPSK	836.5	20525	3	1	8	23.53
QPSK	836.5	20525	3	1	14	23.64
QPSK	836.5	20525	3	8	0	22.61
QPSK	836.5	20525	3	8	4	22.71
QPSK	836.5	20525	3	8	7	22.61
QPSK	836.5	20525	3	15	0	22.63
QPSK	847.5	20635	3	1	0	23.54
QPSK	847.5	20635	3	1	8	23.46
QPSK	847.5	20635	3	1	14	23.41
QPSK	847.5	20635	3	8	0	22.54
QPSK	847.5	20635	3	8	4	22.49
QPSK	847.5	20635	3	8	7	22.41
QPSK	847.5	20635	3	15	0	22.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	23.01
16QAM	825.5	20415	3	1	8	22.82
16QAM	825.5	20415	3	1	14	22.89
16QAM	825.5	20415	3	8	0	21.55
16QAM	825.5	20415	3	8	4	21.58
16QAM	825.5	20415	3	8	7	21.55
16QAM	825.5	20415	3	15	0	21.60
16QAM	836.5	20525	3	1	0	22.48
16QAM	836.5	20525	3	1	8	22.79
16QAM	836.5	20525	3	1	14	22.98
16QAM	836.5	20525	3	8	0	21.81
16QAM	836.5	20525	3	8	4	21.76
16QAM	836.5	20525	3	8	7	21.58
16QAM	836.5	20525	3	15	0	21.73
16QAM	847.5	20635	3	1	0	22.43
16QAM	847.5	20635	3	1	8	22.49
16QAM	847.5	20635	3	1	14	22.73
16QAM	847.5	20635	3	8	0	21.69
16QAM	847.5	20635	3	8	4	21.74
16QAM	847.5	20635	3	8	7	21.72
16QAM	847.5	20635	3	15	0	21.67
64QAM	825.5	20415	3	1	0	21.69
64QAM	825.5	20415	3	1	8	21.81
64QAM	825.5	20415	3	1	14	21.81
64QAM	825.5	20415	3	8	0	20.47
64QAM	825.5	20415	3	8	4	20.50
64QAM	825.5	20415	3	8	7	20.57
64QAM	825.5	20415	3	15	0	20.49
64QAM	836.5	20525	3	1	0	21.85
64QAM	836.5	20525	3	1	8	21.68
64QAM	836.5	20525	3	1	14	21.83
64QAM	836.5	20525	3	8	0	20.50
64QAM	836.5	20525	3	8	4	20.74
64QAM	836.5	20525	3	8	7	20.57
64QAM	836.5	20525	3	15	0	20.47
64QAM	847.5	20635	3	1	0	21.82
64QAM	847.5	20635	3	1	8	22.05
64QAM	847.5	20635	3	1	14	21.75
64QAM	847.5	20635	3	8	0	20.72
64QAM	847.5	20635	3	8	4	20.55
64QAM	847.5	20635	3	8	7	20.47
64QAM	847.5	20635	3	15	0	20.52

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.42
QPSK	826.5	20425	5	1	12	23.39
QPSK	826.5	20425	5	1	24	23.40
QPSK	826.5	20425	5	12	0	22.55
QPSK	826.5	20425	5	12	7	22.60
QPSK	826.5	20425	5	12	13	22.55
QPSK	826.5	20425	5	25	0	22.55
QPSK	836.5	20525	5	1	0	23.49
QPSK	836.5	20525	5	1	12	24.07
QPSK	836.5	20525	5	1	24	23.45
QPSK	836.5	20525	5	12	0	22.55
QPSK	836.5	20525	5	12	7	22.66
QPSK	836.5	20525	5	12	13	22.67
QPSK	836.5	20525	5	25	0	22.71
QPSK	846.5	20625	5	1	0	23.44
QPSK	846.5	20625	5	1	12	23.79
QPSK	846.5	20625	5	1	24	23.39
QPSK	846.5	20625	5	12	0	22.64
QPSK	846.5	20625	5	12	7	22.51
QPSK	846.5	20625	5	12	13	22.36
QPSK	846.5	20625	5	25	0	22.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.67
16QAM	826.5	20425	5	1	12	22.88
16QAM	826.5	20425	5	1	24	22.75
16QAM	826.5	20425	5	12	0	21.54
16QAM	826.5	20425	5	12	7	21.65
16QAM	826.5	20425	5	12	13	21.49
16QAM	826.5	20425	5	25	0	21.47
16QAM	836.5	20525	5	1	0	22.81
16QAM	836.5	20525	5	1	12	23.20
16QAM	836.5	20525	5	1	24	22.61
16QAM	836.5	20525	5	12	0	21.73
16QAM	836.5	20525	5	12	7	21.69
16QAM	836.5	20525	5	12	13	21.70
16QAM	836.5	20525	5	25	0	21.63
16QAM	846.5	20625	5	1	0	22.62
16QAM	846.5	20625	5	1	12	23.09
16QAM	846.5	20625	5	1	24	22.41
16QAM	846.5	20625	5	12	0	21.60
16QAM	846.5	20625	5	12	7	21.46
16QAM	846.5	20625	5	12	13	21.39
16QAM	846.5	20625	5	25	0	21.59
64QAM	826.5	20425	5	1	0	21.89
64QAM	826.5	20425	5	1	12	21.89
64QAM	826.5	20425	5	1	24	21.39
64QAM	826.5	20425	5	12	0	20.47
64QAM	826.5	20425	5	12	7	20.45
64QAM	826.5	20425	5	12	13	20.61
64QAM	826.5	20425	5	25	0	20.50
64QAM	836.5	20525	5	1	0	21.66
64QAM	836.5	20525	5	1	12	22.23
64QAM	836.5	20525	5	1	24	21.71
64QAM	836.5	20525	5	12	0	20.58
64QAM	836.5	20525	5	12	7	20.74
64QAM	836.5	20525	5	12	13	20.55
64QAM	836.5	20525	5	25	0	20.62
64QAM	846.5	20625	5	1	0	21.69
64QAM	846.5	20625	5	1	12	21.67
64QAM	846.5	20625	5	1	24	21.52
64QAM	846.5	20625	5	12	0	20.72
64QAM	846.5	20625	5	12	7	20.60
64QAM	846.5	20625	5	12	13	20.45
64QAM	846.5	20625	5	25	0	20.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.42
QPSK	829	20450	10	1	25	23.61
QPSK	829	20450	10	1	49	23.41
QPSK	829	20450	10	25	0	22.49
QPSK	829	20450	10	25	12	22.58
QPSK	829	20450	10	25	25	22.69
QPSK	829	20450	10	50	0	22.61
QPSK	836.5	20525	10	1	0	23.51
QPSK	836.5	20525	10	1	25	23.79
QPSK	836.5	20525	10	1	49	23.66
QPSK	836.5	20525	10	25	0	22.69
QPSK	836.5	20525	10	25	12	22.67
QPSK	836.5	20525	10	25	25	22.63
QPSK	836.5	20525	10	50	0	22.64
QPSK	844	20600	10	1	0	23.56
QPSK	844	20600	10	1	25	23.64
QPSK	844	20600	10	1	49	23.38
QPSK	844	20600	10	25	0	22.69
QPSK	844	20600	10	25	12	22.67
QPSK	844	20600	10	25	25	22.29
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	22.49
16QAM	829	20450	10	1	25	22.61
16QAM	829	20450	10	1	49	22.63
16QAM	829	20450	10	25	0	21.53
16QAM	829	20450	10	25	12	21.60
16QAM	829	20450	10	25	25	21.67
16QAM	829	20450	10	50	0	21.54
16QAM	836.5	20525	10	1	0	23.41
16QAM	836.5	20525	10	1	25	22.92
16QAM	836.5	20525	10	1	49	22.96
16QAM	836.5	20525	10	25	0	21.72
16QAM	836.5	20525	10	25	12	21.57
16QAM	836.5	20525	10	25	25	21.58
16QAM	836.5	20525	10	50	0	21.65
16QAM	844	20600	10	1	0	22.79
16QAM	844	20600	10	1	25	22.69
16QAM	844	20600	10	1	49	22.48
16QAM	844	20600	10	25	0	21.58
16QAM	844	20600	10	25	12	21.57
16QAM	844	20600	10	25	25	21.40
16QAM	844	20600	10	50	0	21.53
64QAM	829	20450	10	1	0	21.67
64QAM	829	20450	10	1	25	21.98
64QAM	829	20450	10	1	49	21.55
64QAM	829	20450	10	25	0	20.60
64QAM	829	20450	10	25	12	20.54
64QAM	829	20450	10	25	25	20.68
64QAM	829	20450	10	50	0	20.65
64QAM	836.5	20525	10	1	0	21.47
64QAM	836.5	20525	10	1	25	21.89
64QAM	836.5	20525	10	1	49	21.61
64QAM	836.5	20525	10	25	0	20.57
64QAM	836.5	20525	10	25	12	20.64
64QAM	836.5	20525	10	25	25	20.58
64QAM	836.5	20525	10	50	0	20.69
64QAM	844	20600	10	1	0	21.49
64QAM	844	20600	10	1	25	21.55
64QAM	844	20600	10	1	49	21.85
64QAM	844	20600	10	25	0	20.68
64QAM	844	20600	10	25	12	20.56
64QAM	844	20600	10	25	25	20.42
64QAM	844	20600	10	50	0	20.43

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	1.070	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	2.670	Fig.4
5	QPSK	836.5	20525	3	15	0	2.670	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	8.900	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	1.070	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	4.470	Fig.19
5	16QAM	836.5	20525	5	25	0	4.470	Fig.20
5	16QAM	846.5	20625	5	25	0	4.460	Fig.21
5	16QAM	829	20450	10	50	0	8.920	Fig.22
5	16QAM	836.5	20525	10	50	0	8.920	Fig.23
5	16QAM	844	20600	10	50	0	8.890	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	1.070	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	2.670	Fig.30
5	64QAM	826.5	20425	5	25	0	4.460	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	8.920	Fig.34
5	64QAM	836.5	20525	10	50	0	8.930	Fig.35
5	64QAM	844	20600	10	50	0	8.910	Fig.36

Test Mode: QPSK

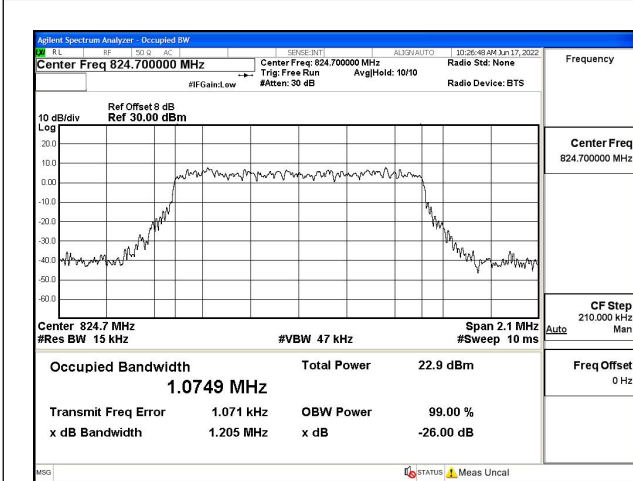


Fig.1

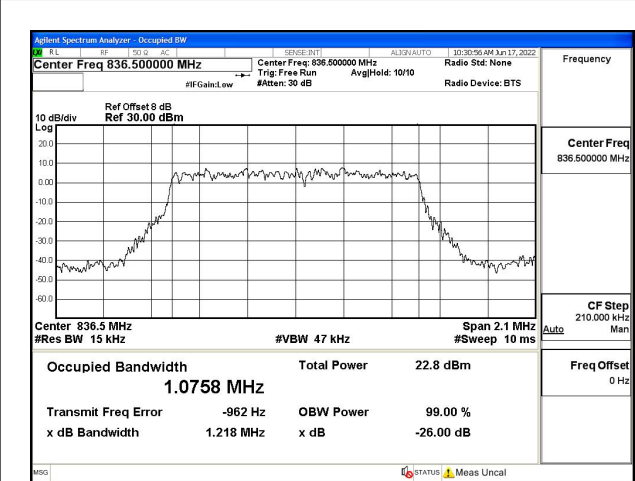


Fig.2

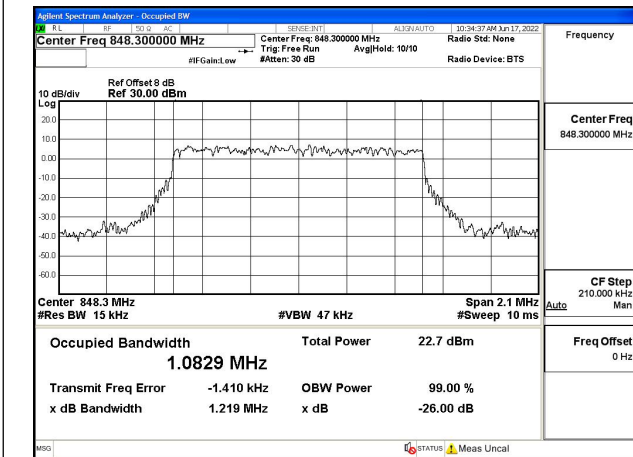


Fig.3

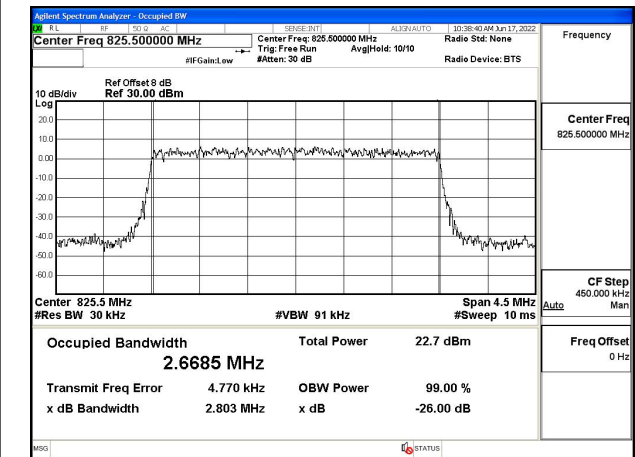


Fig.4

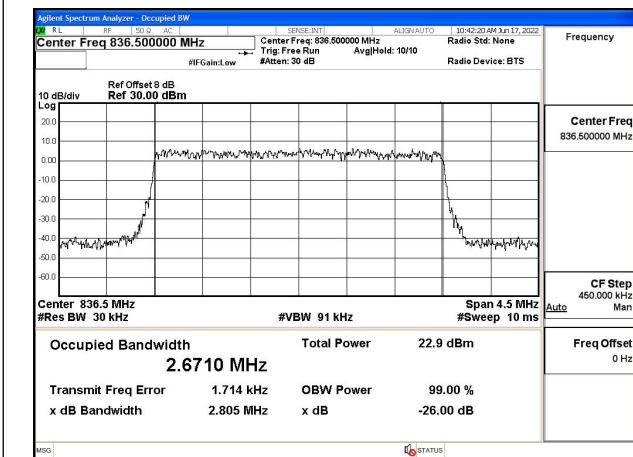


Fig.5

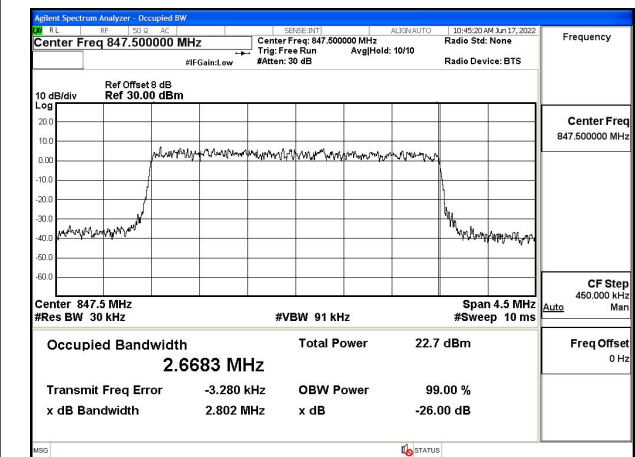


Fig.6

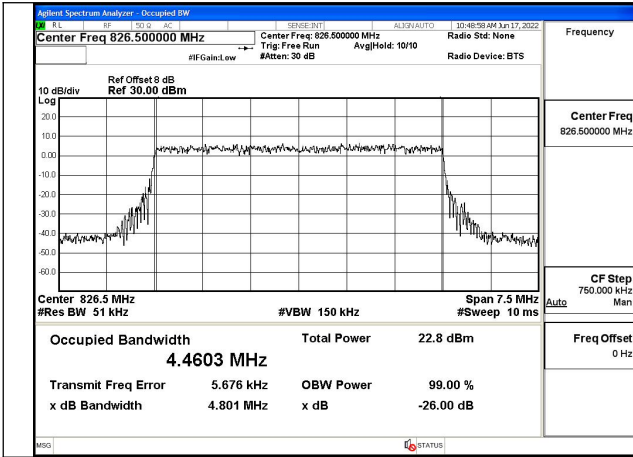


Fig.7

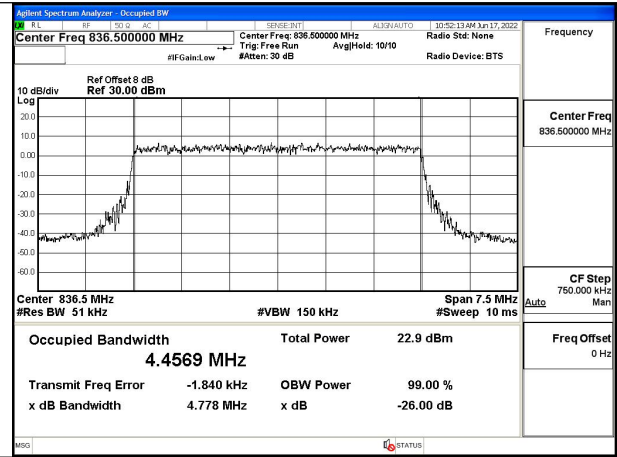


Fig.8

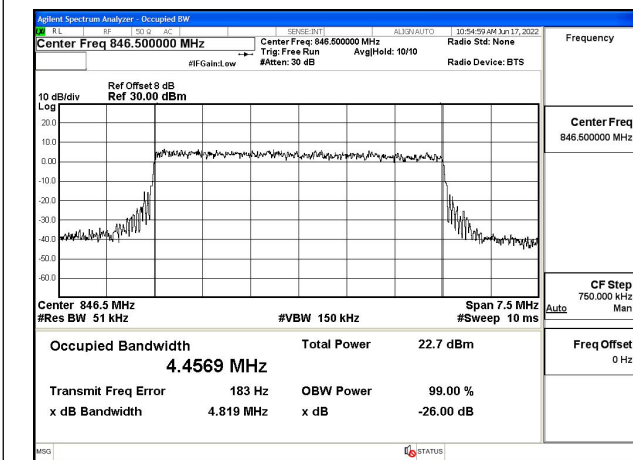


Fig.9

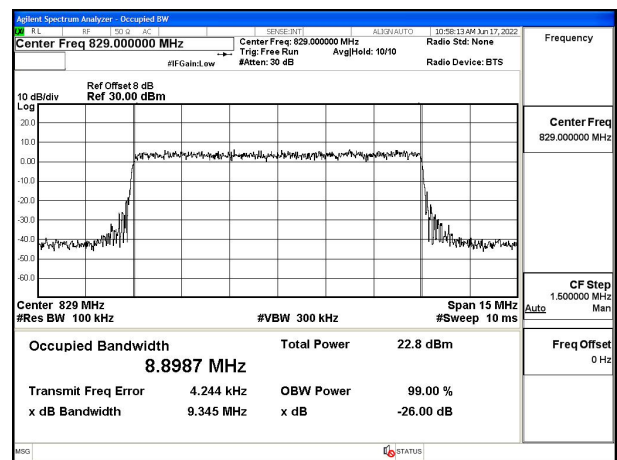


Fig.10

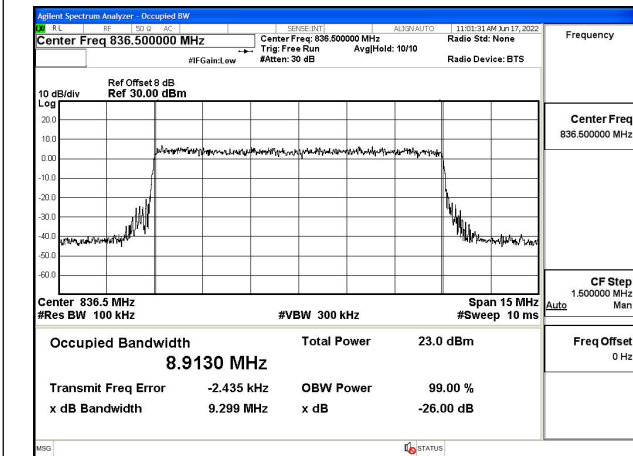


Fig.11

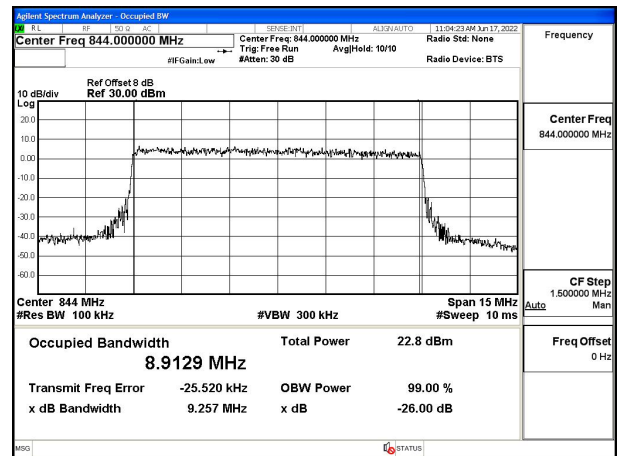


Fig.12

Test Mode: 16QAM

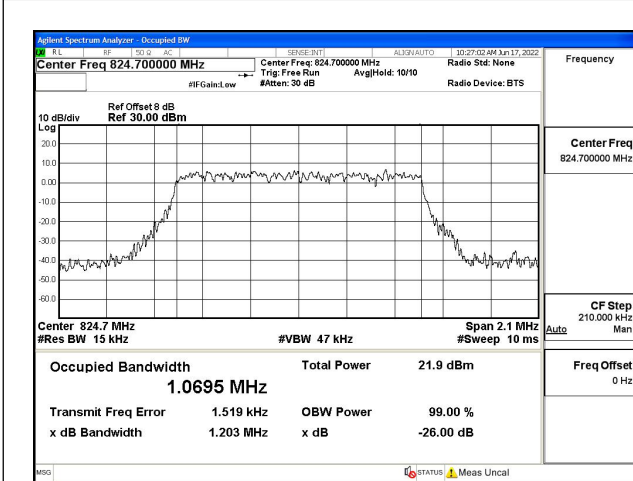


Fig.13

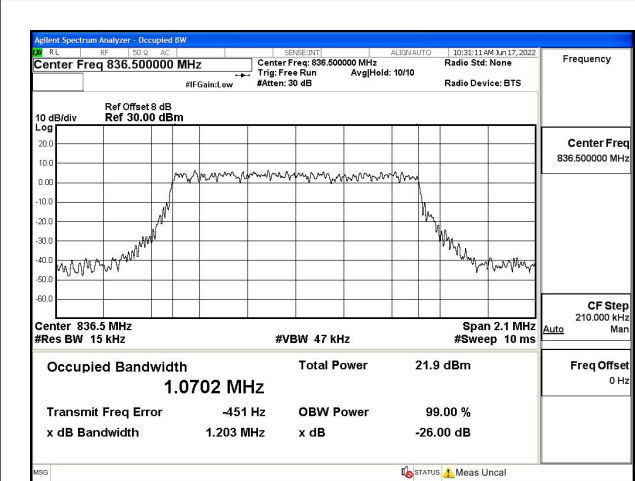


Fig.14

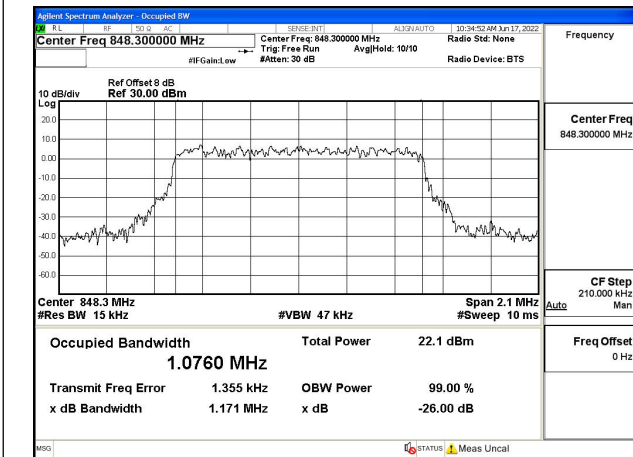


Fig.15

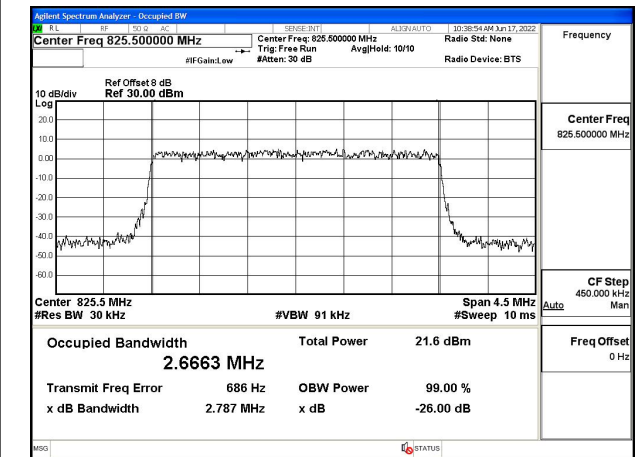


Fig.16

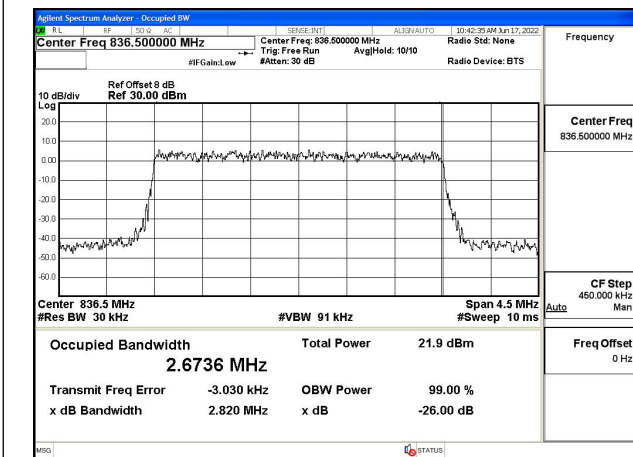


Fig.17

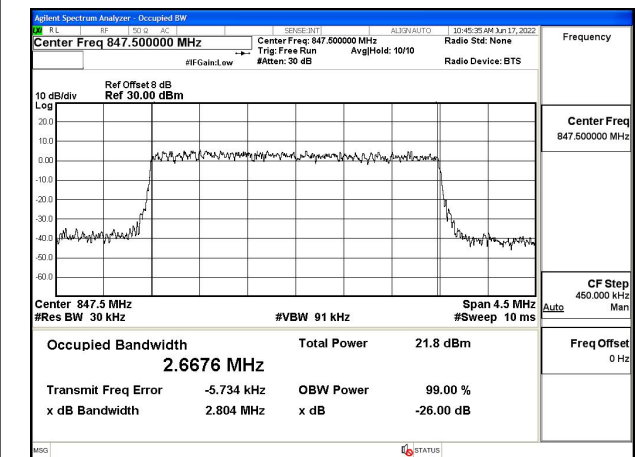


Fig.18

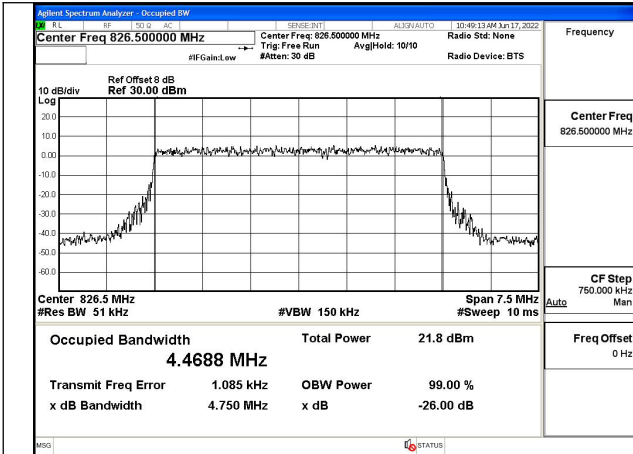


Fig.19

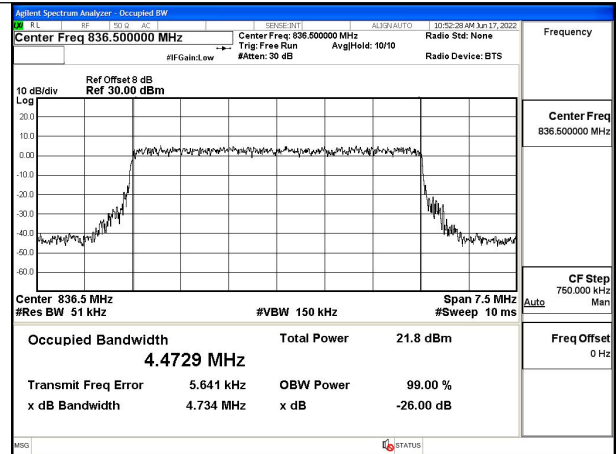


Fig.20

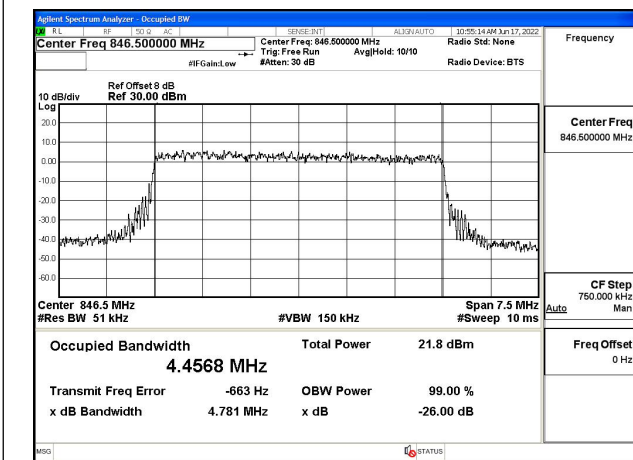


Fig.21

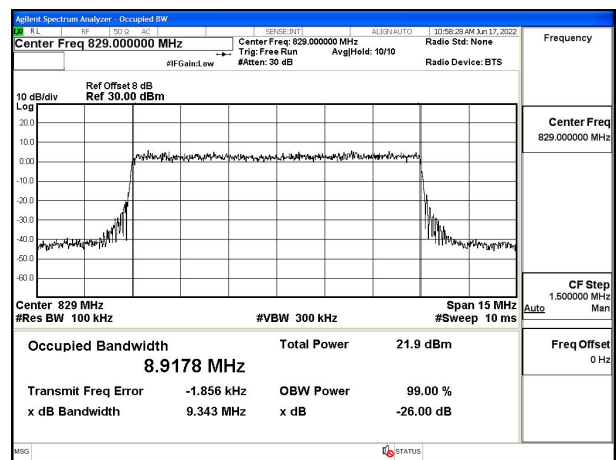


Fig.22

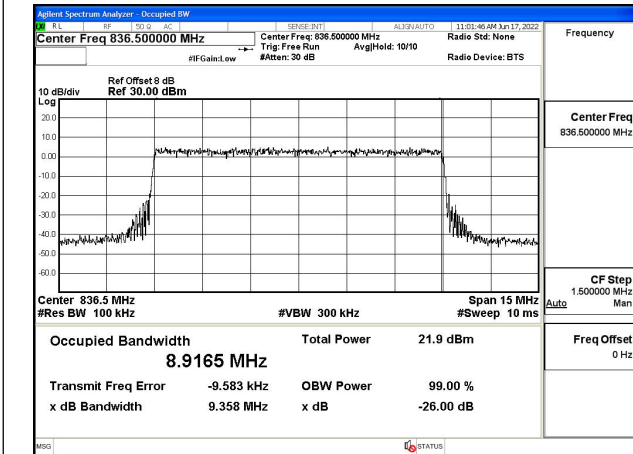


Fig.23

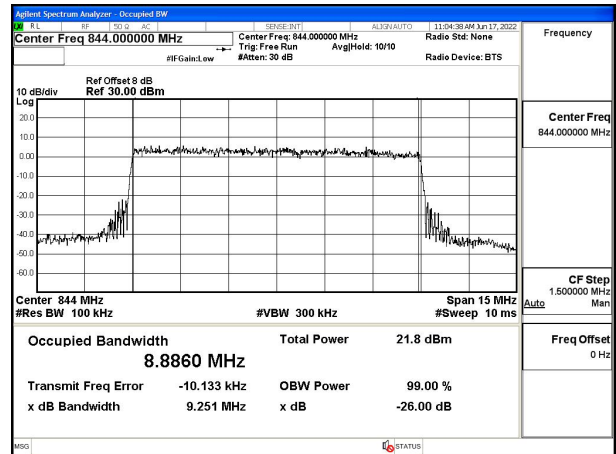


Fig.24

Test Mode: 64QAM

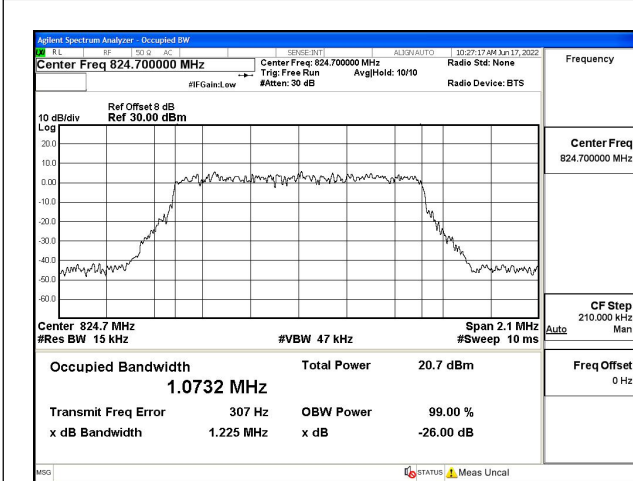


Fig.25

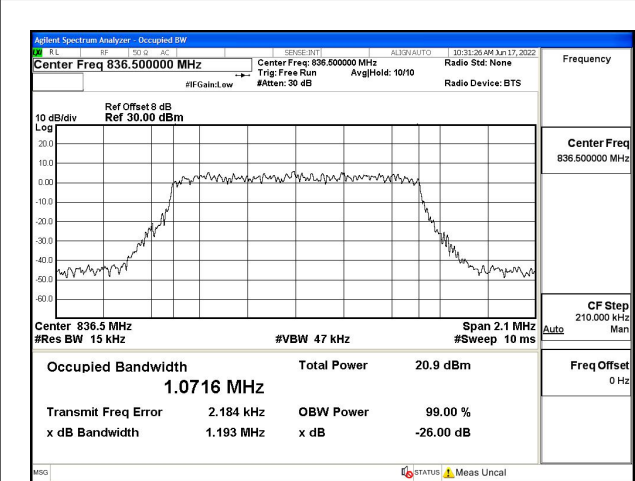


Fig.26

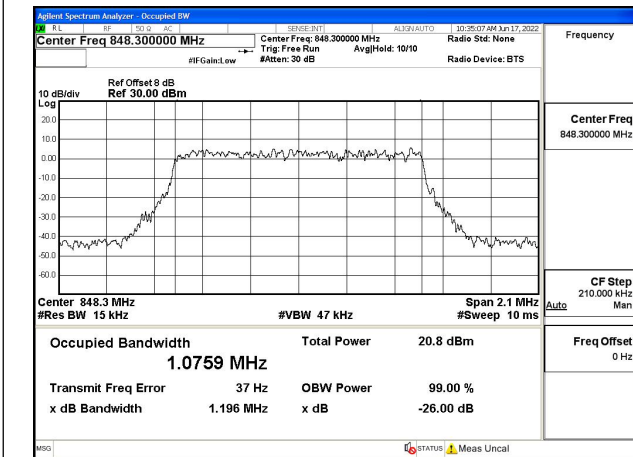


Fig.27

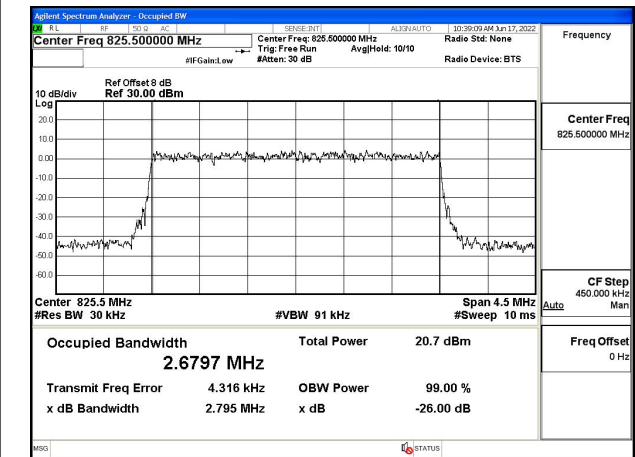


Fig.28

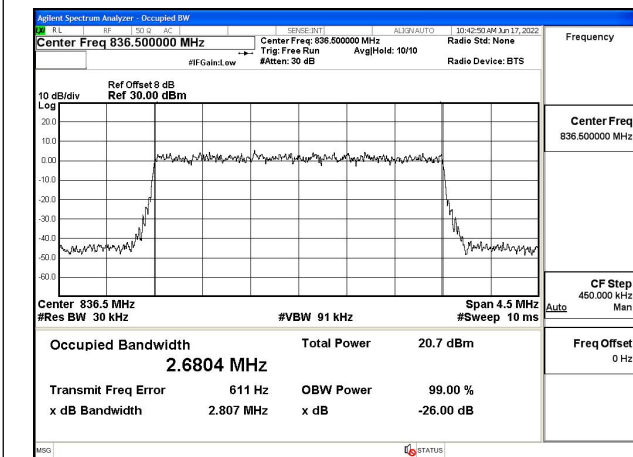


Fig.29

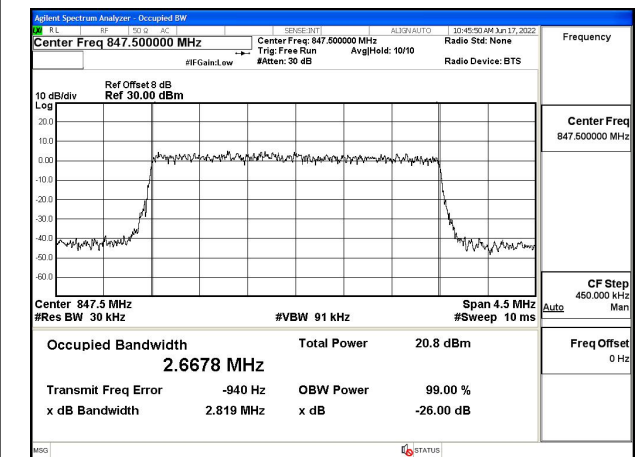


Fig.30

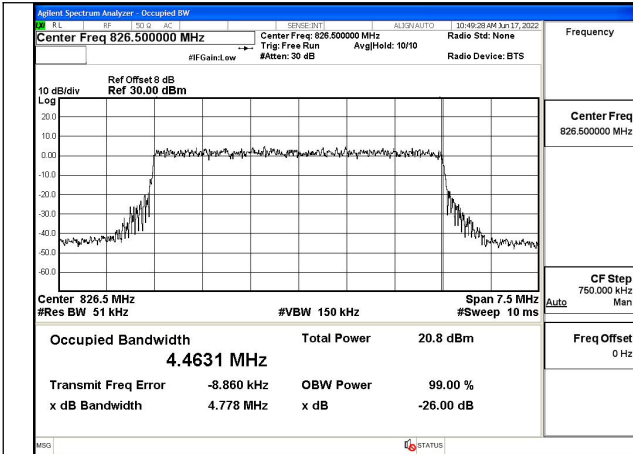


Fig.31

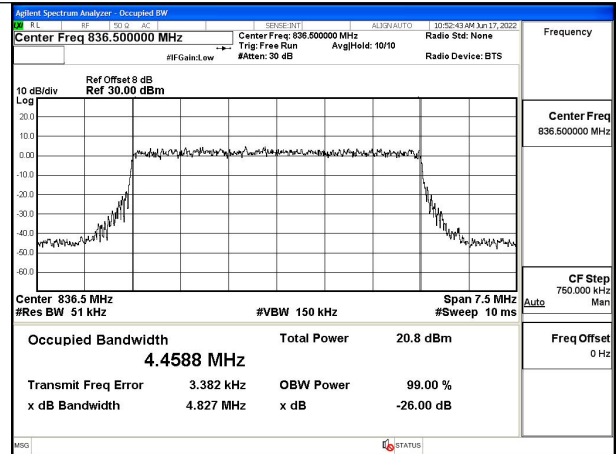


Fig.32

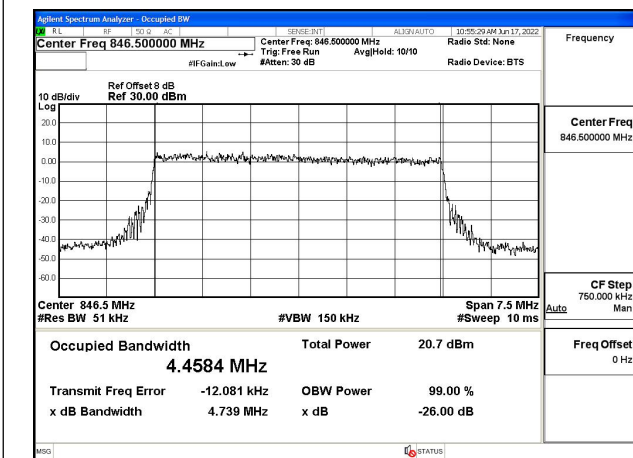


Fig.33

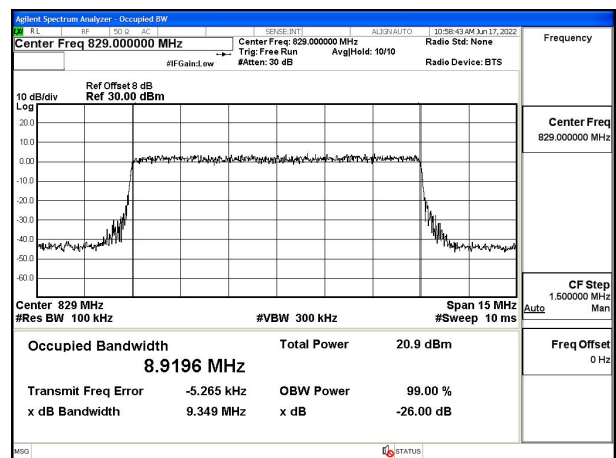


Fig.34

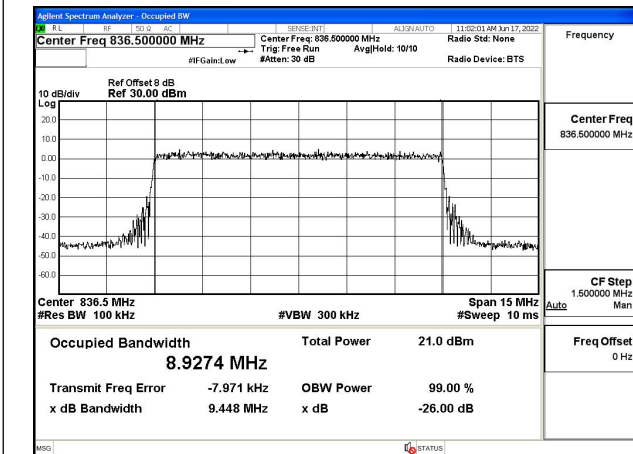


Fig.35

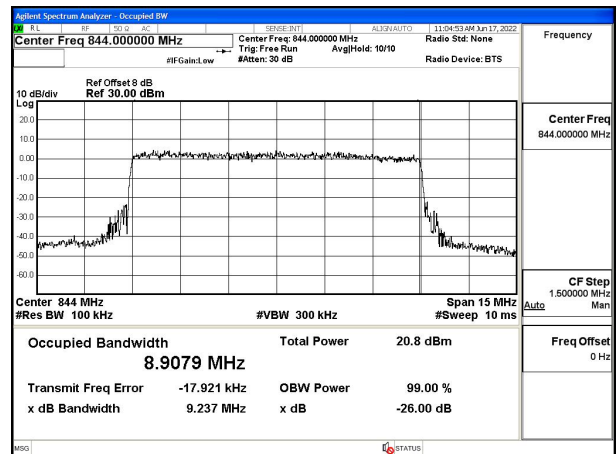


Fig.36

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	1.200	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.220	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.220	Fig.3
5	QPSK	825.5	20415	3	15	0	2.800	Fig.4
5	QPSK	836.5	20525	3	15	0	2.800	Fig.5
5	QPSK	847.5	20635	3	15	0	2.800	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	4.820	Fig.9
5	QPSK	829	20450	10	50	0	9.350	Fig.10
5	QPSK	836.5	20525	10	50	0	9.300	Fig.11
5	QPSK	844	20600	10	50	0	9.260	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	1.200	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.170	Fig.15
5	16QAM	825.5	20415	3	15	0	2.790	Fig.16
5	16QAM	836.5	20525	3	15	0	2.820	Fig.17
5	16QAM	847.5	20635	3	15	0	2.800	Fig.18
5	16QAM	826.5	20425	5	25	0	4.750	Fig.19
5	16QAM	836.5	20525	5	25	0	4.730	Fig.20
5	16QAM	846.5	20625	5	25	0	4.780	Fig.21
5	16QAM	829	20450	10	50	0	9.340	Fig.22
5	16QAM	836.5	20525	10	50	0	9.360	Fig.23
5	16QAM	844	20600	10	50	0	9.250	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	1.230	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.190	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.200	Fig.27
5	64QAM	825.5	20415	3	15	0	2.800	Fig.28
5	64QAM	836.5	20525	3	15	0	2.810	Fig.29
5	64QAM	847.5	20635	3	15	0	2.820	Fig.30
5	64QAM	826.5	20425	5	25	0	4.780	Fig.31
5	64QAM	836.5	20525	5	25	0	4.830	Fig.32
5	64QAM	846.5	20625	5	25	0	4.740	Fig.33
5	64QAM	829	20450	10	50	0	9.350	Fig.34
5	64QAM	836.5	20525	10	50	0	9.450	Fig.35
5	64QAM	844	20600	10	50	0	9.240	Fig.36

Test Mode: QPSK

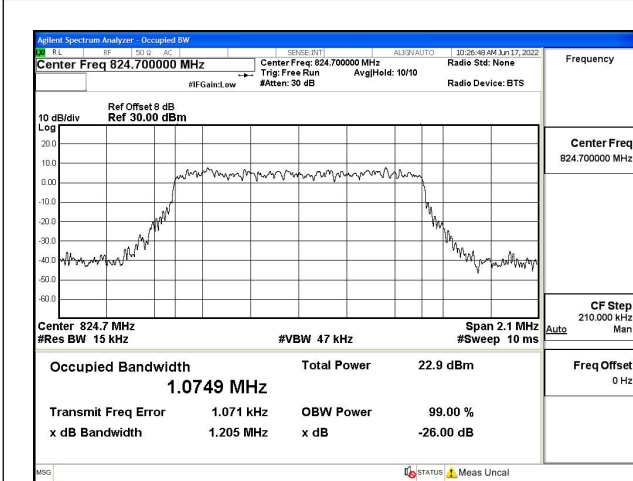


Fig.1

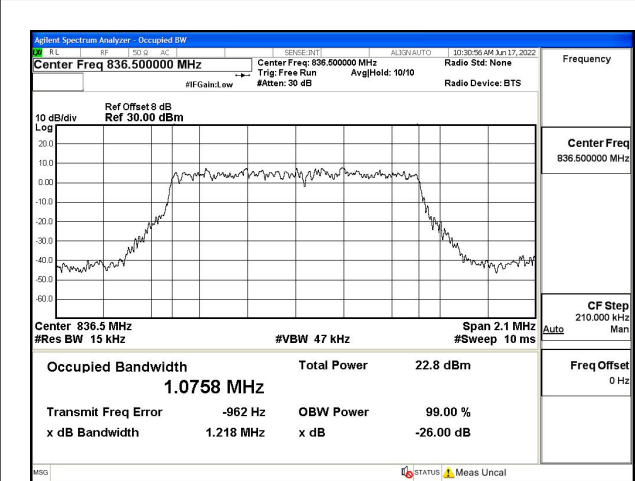


Fig.2

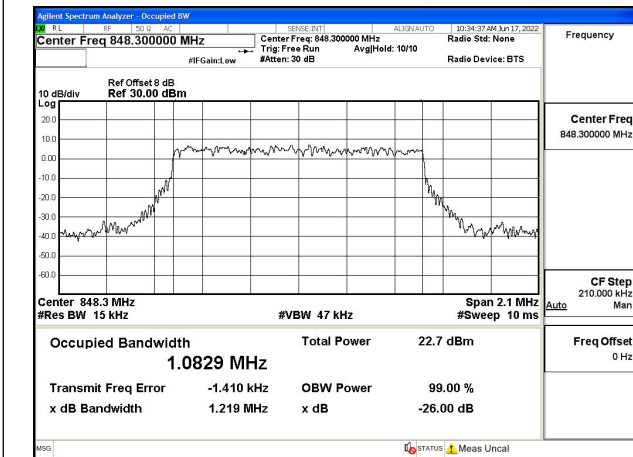


Fig.3

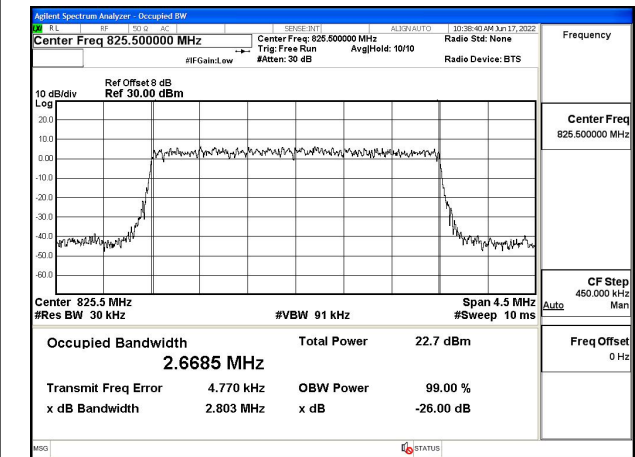


Fig.4

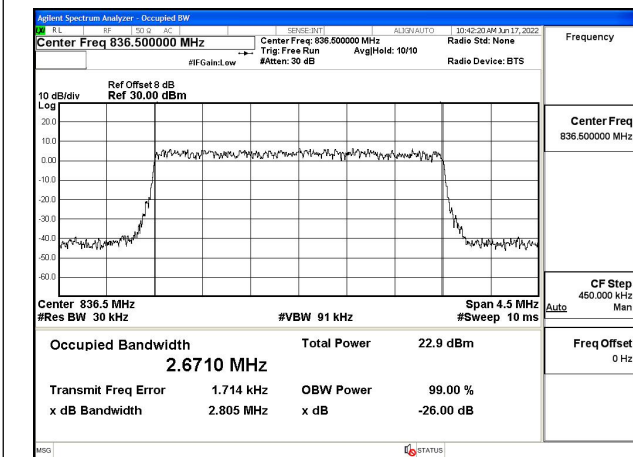


Fig.5

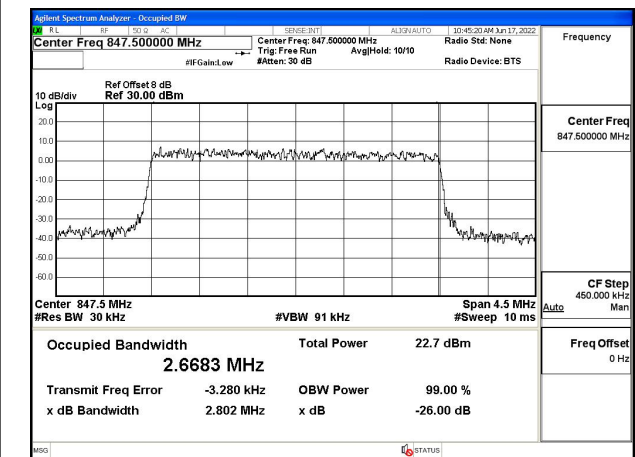


Fig.6

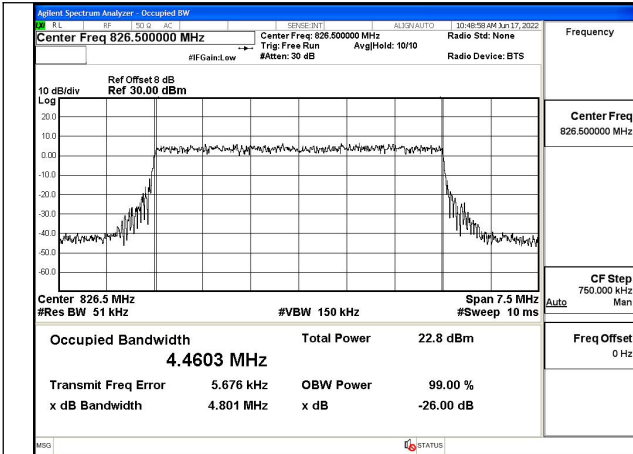


Fig.7

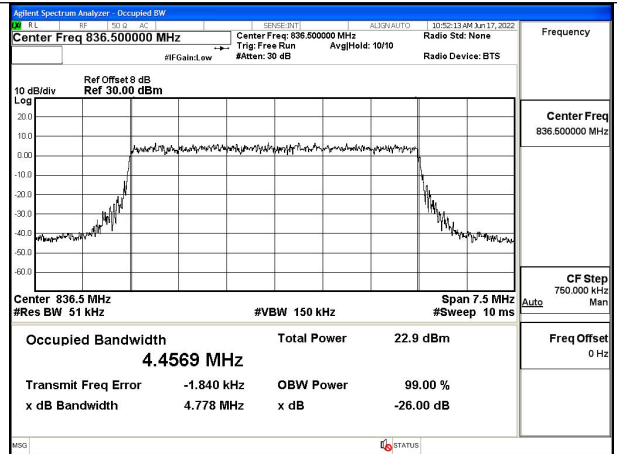


Fig.8

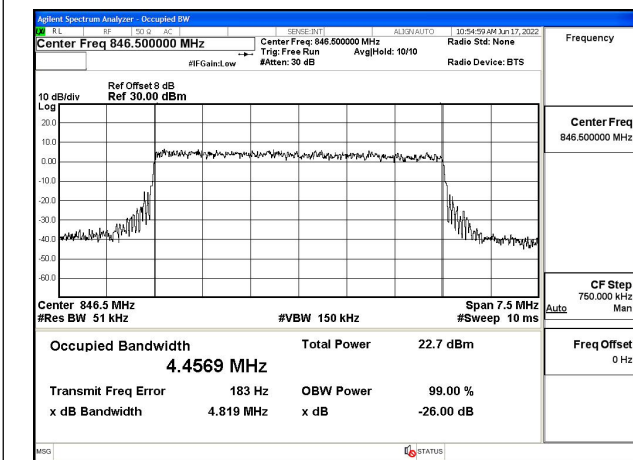


Fig.9

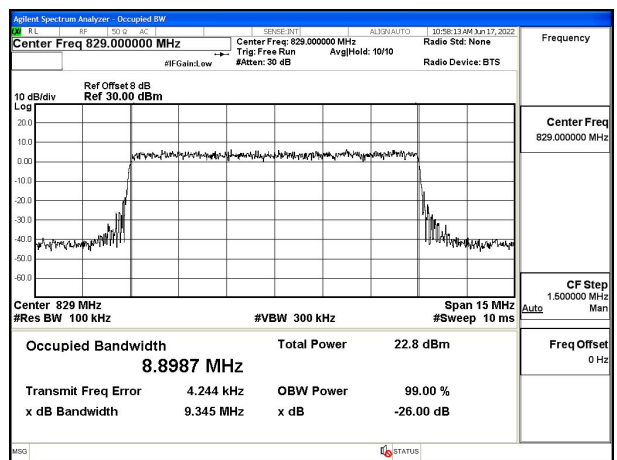


Fig.10

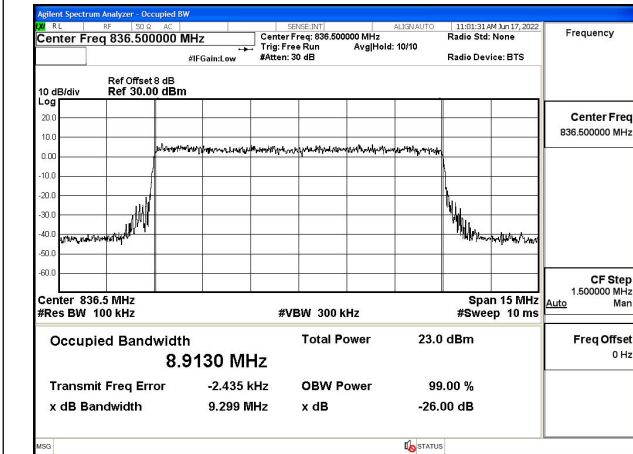


Fig.11

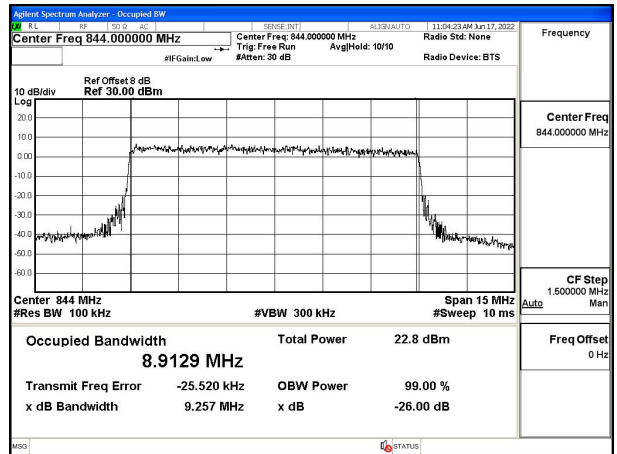


Fig.12

Test Mode: 16QAM