

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	22.91
QPSK	824.7	20407	1.4	1	3	23.04
QPSK	824.7	20407	1.4	1	5	23.17
QPSK	824.7	20407	1.4	3	0	23.35
QPSK	824.7	20407	1.4	3	1	23.42
QPSK	824.7	20407	1.4	3	3	23.37
QPSK	824.7	20407	1.4	6	0	22.12
QPSK	836.5	20525	1.4	1	0	23.27
QPSK	836.5	20525	1.4	1	3	23.38
QPSK	836.5	20525	1.4	1	5	23.40
QPSK	836.5	20525	1.4	3	0	23.31
QPSK	836.5	20525	1.4	3	1	23.38
QPSK	836.5	20525	1.4	3	3	23.43
QPSK	836.5	20525	1.4	6	0	22.44
QPSK	848.3	20643	1.4	1	0	23.60
QPSK	848.3	20643	1.4	1	3	23.42
QPSK	848.3	20643	1.4	1	5	23.35
QPSK	848.3	20643	1.4	3	0	23.31
QPSK	848.3	20643	1.4	3	1	23.34
QPSK	848.3	20643	1.4	3	3	23.30
QPSK	848.3	20643	1.4	6	0	22.37

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.34
16QAM	824.7	20407	1.4	1	3	22.90
16QAM	824.7	20407	1.4	1	5	23.00
16QAM	824.7	20407	1.4	3	0	22.49
16QAM	824.7	20407	1.4	3	1	22.55
16QAM	824.7	20407	1.4	3	3	22.58
16QAM	824.7	20407	1.4	6	0	20.84
16QAM	836.5	20525	1.4	1	0	22.65
16QAM	836.5	20525	1.4	1	3	22.74
16QAM	836.5	20525	1.4	1	5	22.71
16QAM	836.5	20525	1.4	3	0	22.68
16QAM	836.5	20525	1.4	3	1	22.64
16QAM	836.5	20525	1.4	3	3	22.56
16QAM	836.5	20525	1.4	6	0	20.99
16QAM	848.3	20643	1.4	1	0	22.27
16QAM	848.3	20643	1.4	1	3	22.68
16QAM	848.3	20643	1.4	1	5	22.78
16QAM	848.3	20643	1.4	3	0	22.54
16QAM	848.3	20643	1.4	3	1	22.82
16QAM	848.3	20643	1.4	3	3	22.58
16QAM	848.3	20643	1.4	6	0	21.26
64QAM	824.7	20407	1.4	1	0	21.86
64QAM	824.7	20407	1.4	1	3	22.18
64QAM	824.7	20407	1.4	1	5	22.20
64QAM	824.7	20407	1.4	3	0	21.78
64QAM	824.7	20407	1.4	3	1	20.95
64QAM	824.7	20407	1.4	3	3	21.52
64QAM	824.7	20407	1.4	6	0	20.75
64QAM	836.5	20525	1.4	1	0	21.47
64QAM	836.5	20525	1.4	1	3	21.38
64QAM	836.5	20525	1.4	1	5	21.35
64QAM	836.5	20525	1.4	3	0	21.67
64QAM	836.5	20525	1.4	3	1	21.31
64QAM	836.5	20525	1.4	3	3	21.62
64QAM	836.5	20525	1.4	6	0	20.37
64QAM	848.3	20643	1.4	1	0	22.20
64QAM	848.3	20643	1.4	1	3	22.08
64QAM	848.3	20643	1.4	1	5	21.83
64QAM	848.3	20643	1.4	3	0	21.24
64QAM	848.3	20643	1.4	3	1	21.48
64QAM	848.3	20643	1.4	3	3	21.10
64QAM	848.3	20643	1.4	6	0	21.12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.28
QPSK	825.5	20415	3	1	8	23.37
QPSK	825.5	20415	3	1	14	23.39
QPSK	825.5	20415	3	8	0	22.42
QPSK	825.5	20415	3	8	4	22.22
QPSK	825.5	20415	3	8	7	22.36
QPSK	825.5	20415	3	15	0	22.18
QPSK	836.5	20525	3	1	0	23.47
QPSK	836.5	20525	3	1	8	23.49
QPSK	836.5	20525	3	1	14	23.41
QPSK	836.5	20525	3	8	0	22.37
QPSK	836.5	20525	3	8	4	22.36
QPSK	836.5	20525	3	8	7	22.39
QPSK	836.5	20525	3	15	0	22.47
QPSK	847.5	20635	3	1	0	23.35
QPSK	847.5	20635	3	1	8	23.36
QPSK	847.5	20635	3	1	14	23.22
QPSK	847.5	20635	3	8	0	22.38
QPSK	847.5	20635	3	8	4	22.30
QPSK	847.5	20635	3	8	7	22.25
QPSK	847.5	20635	3	15	0	22.25

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.61
16QAM	825.5	20415	3	1	8	22.48
16QAM	825.5	20415	3	1	14	22.65
16QAM	825.5	20415	3	8	0	21.34
16QAM	825.5	20415	3	8	4	21.45
16QAM	825.5	20415	3	8	7	21.47
16QAM	825.5	20415	3	15	0	21.33
16QAM	836.5	20525	3	1	0	22.84
16QAM	836.5	20525	3	1	8	22.59
16QAM	836.5	20525	3	1	14	23.09
16QAM	836.5	20525	3	8	0	21.61
16QAM	836.5	20525	3	8	4	21.40
16QAM	836.5	20525	3	8	7	21.61
16QAM	836.5	20525	3	15	0	21.64
16QAM	847.5	20635	3	1	0	22.53
16QAM	847.5	20635	3	1	8	22.60
16QAM	847.5	20635	3	1	14	22.53
16QAM	847.5	20635	3	8	0	21.55
16QAM	847.5	20635	3	8	4	21.45
16QAM	847.5	20635	3	8	7	21.45
16QAM	847.5	20635	3	15	0	21.49
64QAM	825.5	20415	3	1	0	20.85
64QAM	825.5	20415	3	1	8	21.37
64QAM	825.5	20415	3	1	14	21.23
64QAM	825.5	20415	3	8	0	20.66
64QAM	825.5	20415	3	8	4	20.63
64QAM	825.5	20415	3	8	7	20.05
64QAM	825.5	20415	3	15	0	20.70
64QAM	836.5	20525	3	1	0	21.59
64QAM	836.5	20525	3	1	8	21.71
64QAM	836.5	20525	3	1	14	21.46
64QAM	836.5	20525	3	8	0	20.42
64QAM	836.5	20525	3	8	4	20.23
64QAM	836.5	20525	3	8	7	20.37
64QAM	836.5	20525	3	15	0	20.75
64QAM	847.5	20635	3	1	0	21.05
64QAM	847.5	20635	3	1	8	21.36
64QAM	847.5	20635	3	1	14	21.27
64QAM	847.5	20635	3	8	0	20.56
64QAM	847.5	20635	3	8	4	20.55
64QAM	847.5	20635	3	8	7	20.66
64QAM	847.5	20635	3	15	0	20.78

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.41
QPSK	826.5	20425	5	1	12	23.22
QPSK	826.5	20425	5	1	24	23.06
QPSK	826.5	20425	5	12	0	22.22
QPSK	826.5	20425	5	12	7	22.18
QPSK	826.5	20425	5	12	13	22.25
QPSK	826.5	20425	5	25	0	22.32
QPSK	836.5	20525	5	1	0	23.46
QPSK	836.5	20525	5	1	12	23.46
QPSK	836.5	20525	5	1	24	23.37
QPSK	836.5	20525	5	12	0	22.49
QPSK	836.5	20525	5	12	7	22.37
QPSK	836.5	20525	5	12	13	22.26
QPSK	836.5	20525	5	25	0	22.40
QPSK	846.5	20625	5	1	0	23.67
QPSK	846.5	20625	5	1	12	23.68
QPSK	846.5	20625	5	1	24	23.56
QPSK	846.5	20625	5	12	0	22.39
QPSK	846.5	20625	5	12	7	22.24
QPSK	846.5	20625	5	12	13	22.40
QPSK	846.5	20625	5	25	0	22.23

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.50
16QAM	826.5	20425	5	1	12	23.25
16QAM	826.5	20425	5	1	24	22.89
16QAM	826.5	20425	5	12	0	21.38
16QAM	826.5	20425	5	12	7	21.38
16QAM	826.5	20425	5	12	13	21.39
16QAM	826.5	20425	5	25	0	21.55
16QAM	836.5	20525	5	1	0	23.26
16QAM	836.5	20525	5	1	12	22.79
16QAM	836.5	20525	5	1	24	22.70
16QAM	836.5	20525	5	12	0	21.53
16QAM	836.5	20525	5	12	7	21.29
16QAM	836.5	20525	5	12	13	21.44
16QAM	836.5	20525	5	25	0	21.48
16QAM	846.5	20625	5	1	0	22.60
16QAM	846.5	20625	5	1	12	22.68
16QAM	846.5	20625	5	1	24	22.72
16QAM	846.5	20625	5	12	0	21.43
16QAM	846.5	20625	5	12	7	21.41
16QAM	846.5	20625	5	12	13	21.49
16QAM	846.5	20625	5	25	0	21.42
64QAM	826.5	20425	5	1	0	21.73
64QAM	826.5	20425	5	1	12	21.46
64QAM	826.5	20425	5	1	24	21.74
64QAM	826.5	20425	5	12	0	20.79
64QAM	826.5	20425	5	12	7	20.29
64QAM	826.5	20425	5	12	13	20.30
64QAM	826.5	20425	5	25	0	20.36
64QAM	836.5	20525	5	1	0	21.58
64QAM	836.5	20525	5	1	12	20.96
64QAM	836.5	20525	5	1	24	21.53
64QAM	836.5	20525	5	12	0	20.51
64QAM	836.5	20525	5	12	7	20.42
64QAM	836.5	20525	5	12	13	20.50
64QAM	836.5	20525	5	25	0	20.20
64QAM	846.5	20625	5	1	0	21.80
64QAM	846.5	20625	5	1	12	21.16
64QAM	846.5	20625	5	1	24	21.46
64QAM	846.5	20625	5	12	0	20.40
64QAM	846.5	20625	5	12	7	20.94
64QAM	846.5	20625	5	12	13	20.84
64QAM	846.5	20625	5	25	0	21.01

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.34
QPSK	829	20450	10	1	25	23.25
QPSK	829	20450	10	1	49	23.39
QPSK	829	20450	10	25	0	22.28
QPSK	829	20450	10	25	12	22.17
QPSK	829	20450	10	25	25	22.44
QPSK	829	20450	10	50	0	22.37
QPSK	836.5	20525	10	1	0	23.56
QPSK	836.5	20525	10	1	25	23.66
QPSK	836.5	20525	10	1	49	23.66
QPSK	836.5	20525	10	25	0	22.28
QPSK	836.5	20525	10	25	12	22.41
QPSK	836.5	20525	10	25	25	22.30
QPSK	836.5	20525	10	50	0	22.44
QPSK	844	20600	10	1	0	23.43
QPSK	844	20600	10	1	25	23.40
QPSK	844	20600	10	1	49	23.32
QPSK	844	20600	10	25	0	22.22
QPSK	844	20600	10	25	12	22.42
QPSK	844	20600	10	25	25	22.25
QPSK	844	20600	10	50	0	22.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.71
16QAM	829	20450	10	1	25	22.10
16QAM	829	20450	10	1	49	22.67
16QAM	829	20450	10	25	0	21.47
16QAM	829	20450	10	25	12	21.25
16QAM	829	20450	10	25	25	21.29
16QAM	829	20450	10	50	0	21.36
16QAM	836.5	20525	10	1	0	23.04
16QAM	836.5	20525	10	1	25	22.58
16QAM	836.5	20525	10	1	49	22.69
16QAM	836.5	20525	10	25	0	21.57
16QAM	836.5	20525	10	25	12	21.75
16QAM	836.5	20525	10	25	25	21.71
16QAM	836.5	20525	10	50	0	21.40
16QAM	844	20600	10	1	0	22.48
16QAM	844	20600	10	1	25	22.89
16QAM	844	20600	10	1	49	22.24
16QAM	844	20600	10	25	0	21.37
16QAM	844	20600	10	25	12	21.39
16QAM	844	20600	10	25	25	21.35
16QAM	844	20600	10	50	0	21.43
64QAM	829	20450	10	1	0	21.24
64QAM	829	20450	10	1	25	21.42
64QAM	829	20450	10	1	49	21.16
64QAM	829	20450	10	25	0	20.38
64QAM	829	20450	10	25	12	20.22
64QAM	829	20450	10	25	25	20.30
64QAM	829	20450	10	50	0	20.33
64QAM	836.5	20525	10	1	0	21.93
64QAM	836.5	20525	10	1	25	21.89
64QAM	836.5	20525	10	1	49	21.60
64QAM	836.5	20525	10	25	0	20.44
64QAM	836.5	20525	10	25	12	20.68
64QAM	836.5	20525	10	25	25	20.57
64QAM	836.5	20525	10	50	0	20.70
64QAM	844	20600	10	1	0	21.63
64QAM	844	20600	10	1	25	21.67
64QAM	844	20600	10	1	49	21.92
64QAM	844	20600	10	25	0	20.35
64QAM	844	20600	10	25	12	20.77
64QAM	844	20600	10	25	25	20.89
64QAM	844	20600	10	50	0	20.94

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	2.670	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	4.460	Fig.8
5	QPSK	846.5	20625	5	25	0	4.440	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	8.930	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	1.070	Fig.15
5	16QAM	825.5	20415	3	15	0	2.670	Fig.16
5	16QAM	836.5	20525	3	15	0	2.680	Fig.17
5	16QAM	847.5	20635	3	15	0	2.680	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	4.460	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	8.900	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	1.080	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	4.450	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	8.940	Fig.35
5	64QAM	844	20600	10	50	0	8.930	Fig.36

Test Mode: QPSK

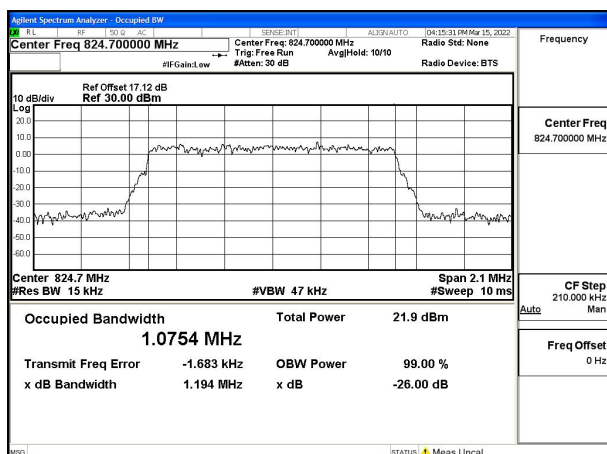


Fig.1

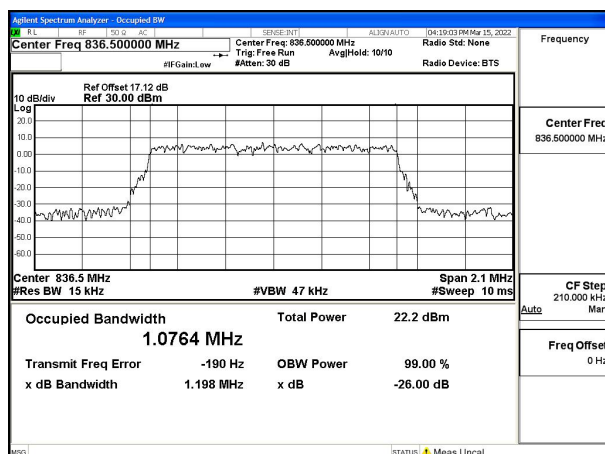


Fig.2

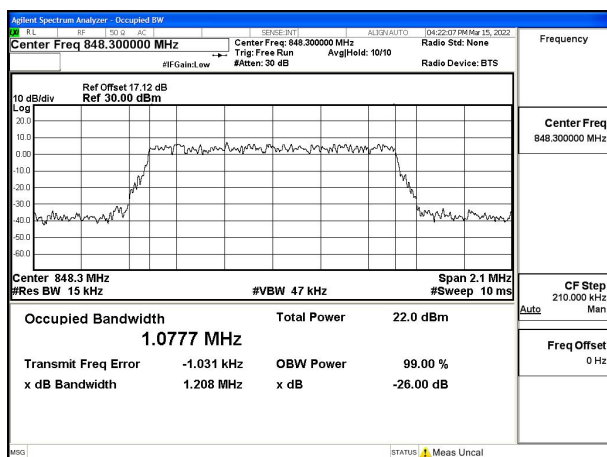


Fig.3

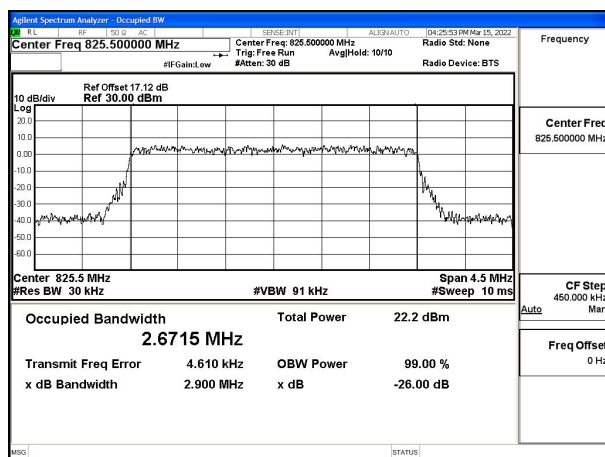


Fig.4

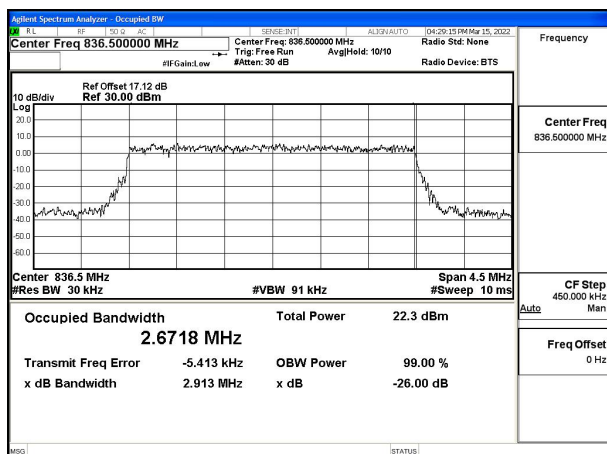


Fig.5

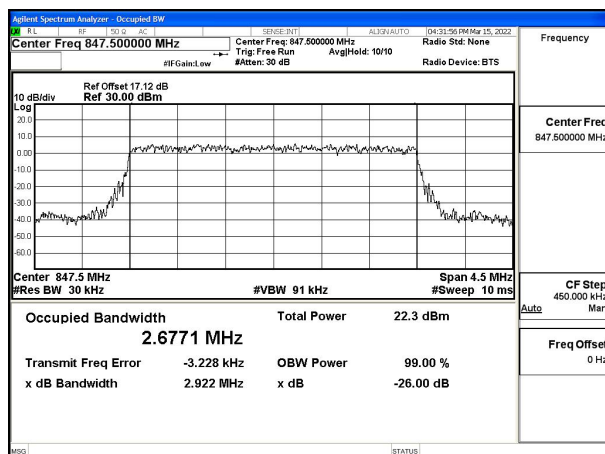


Fig.6

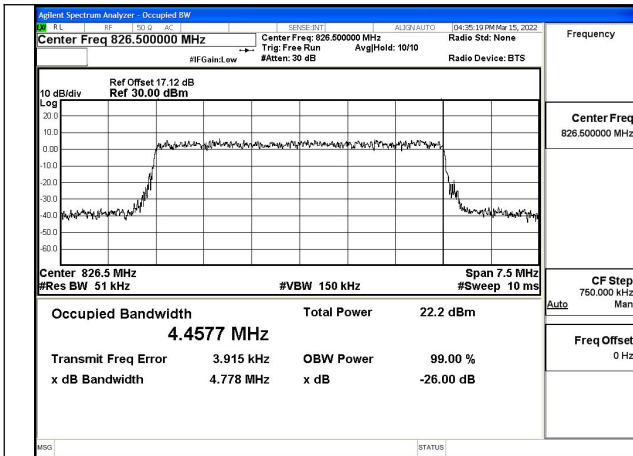


Fig.7

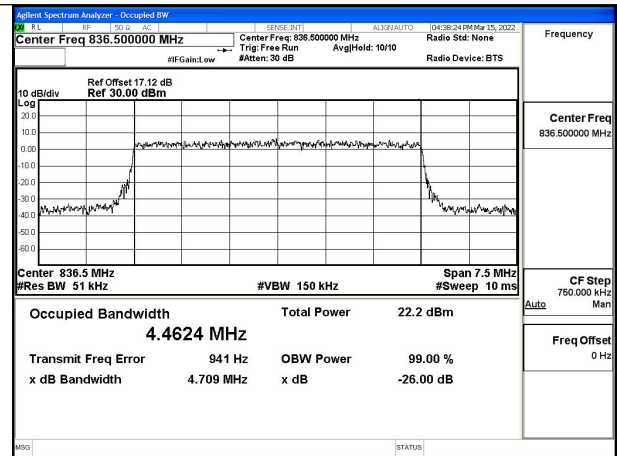


Fig.8

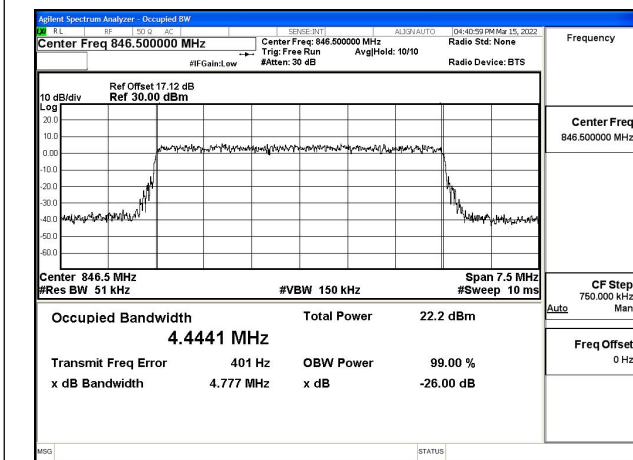


Fig.9

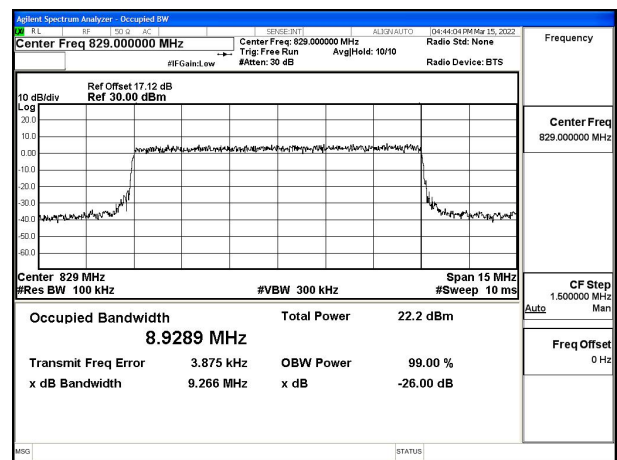


Fig.10

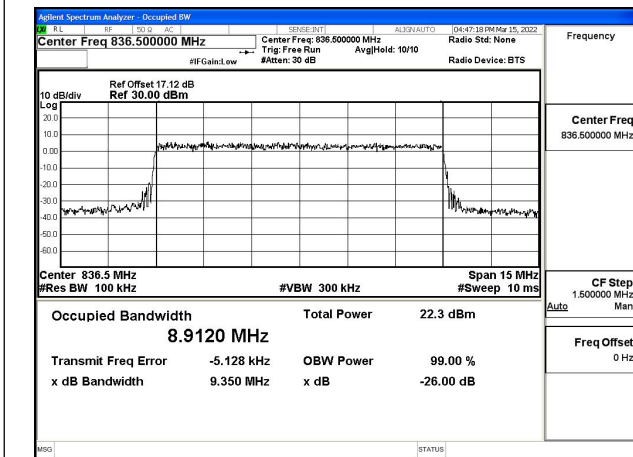


Fig.11

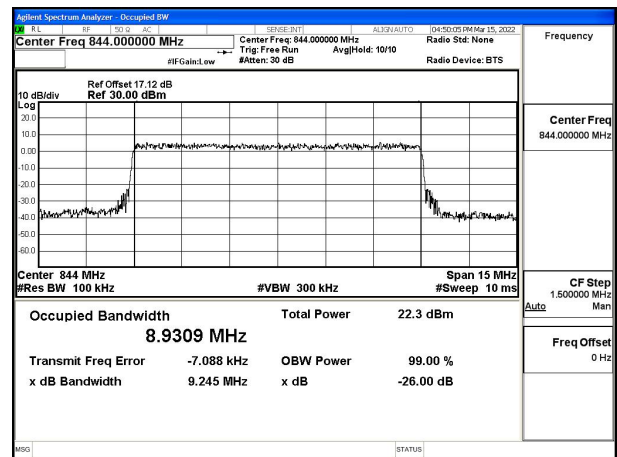


Fig.12

Test Mode: 16QAM

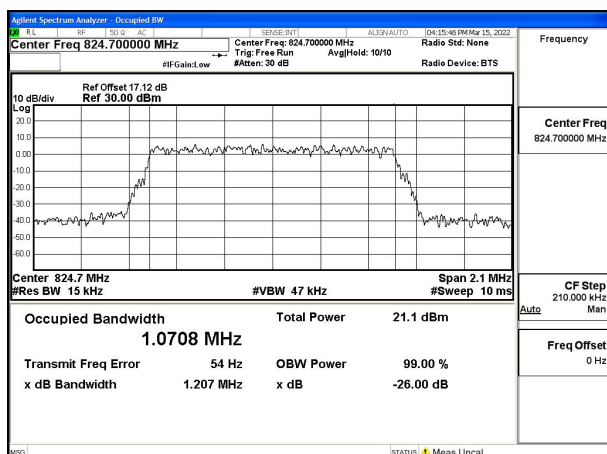


Fig.13

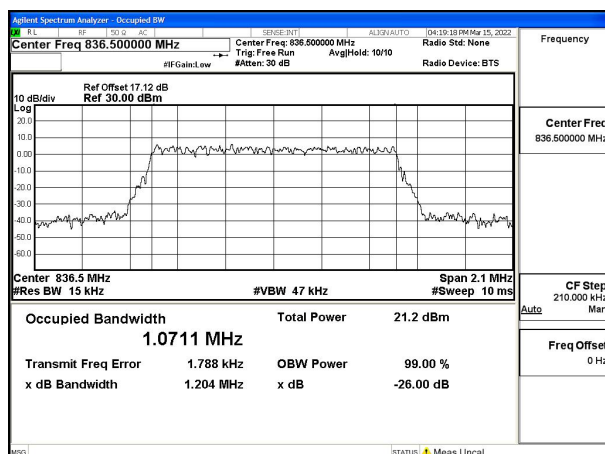


Fig.14

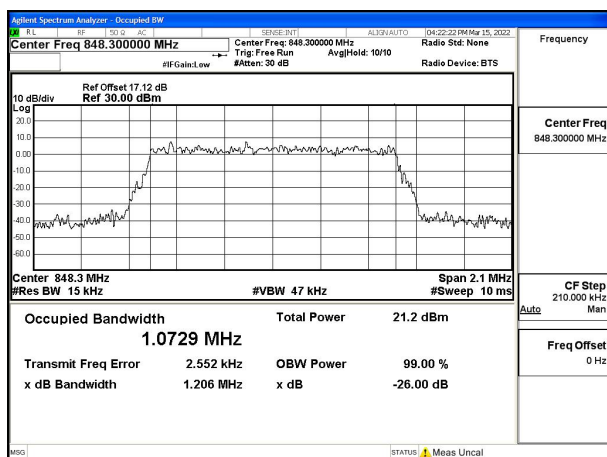


Fig.15

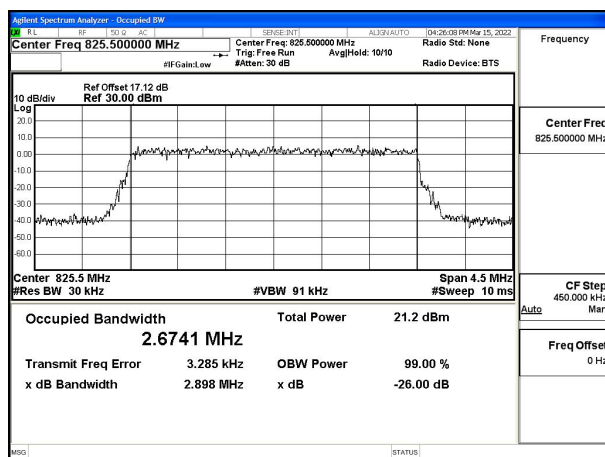


Fig.16

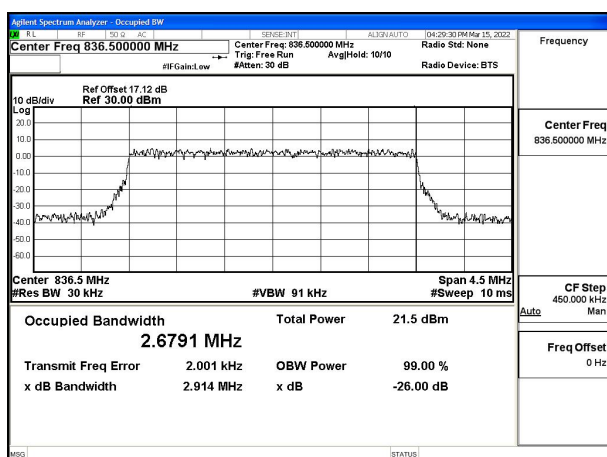


Fig.17

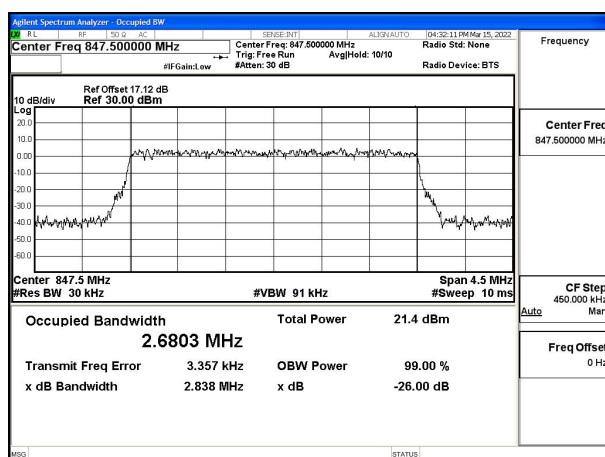


Fig.18

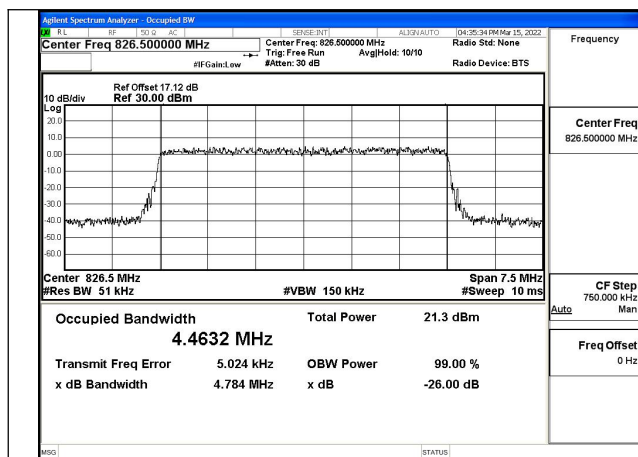


Fig.19

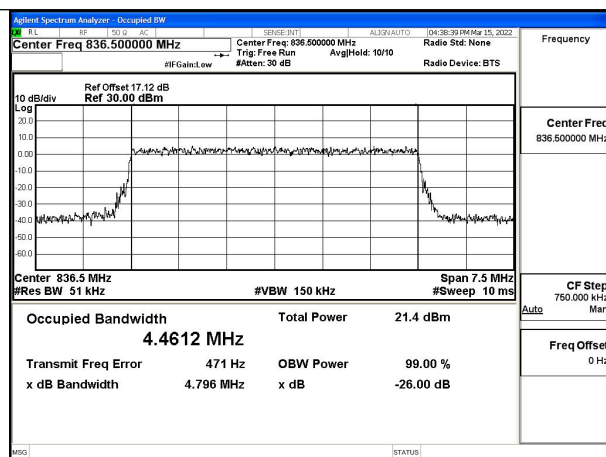


Fig.20

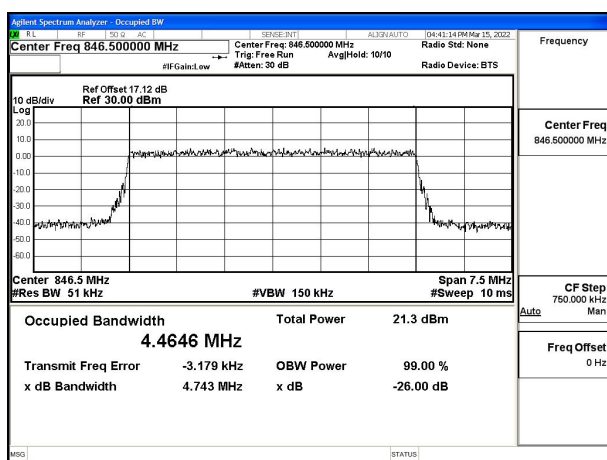


Fig.21

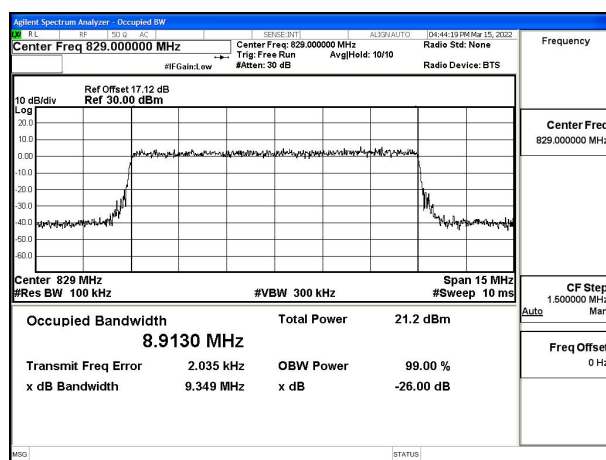


Fig.22

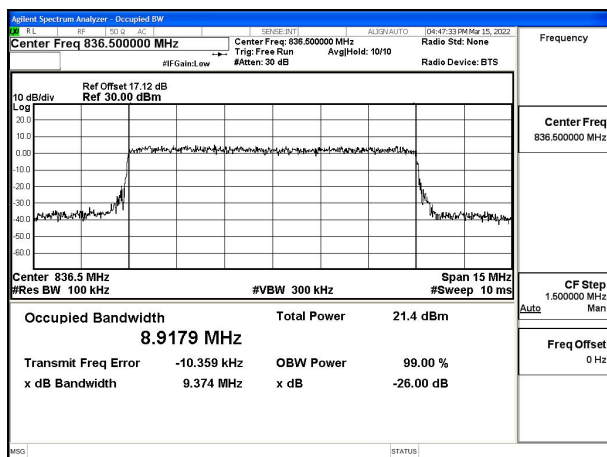


Fig.23

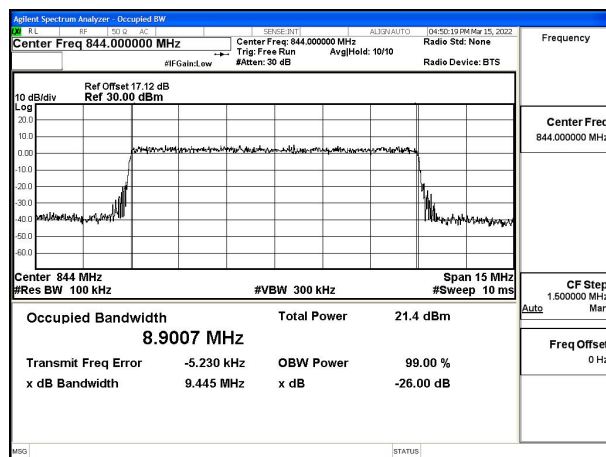


Fig.24

Test Mode: 64QAM

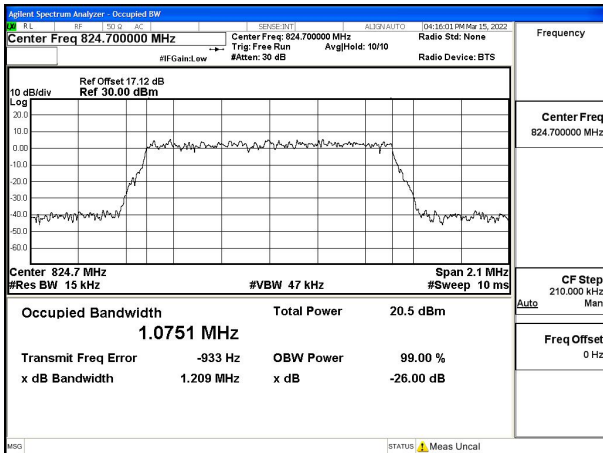


Fig.25

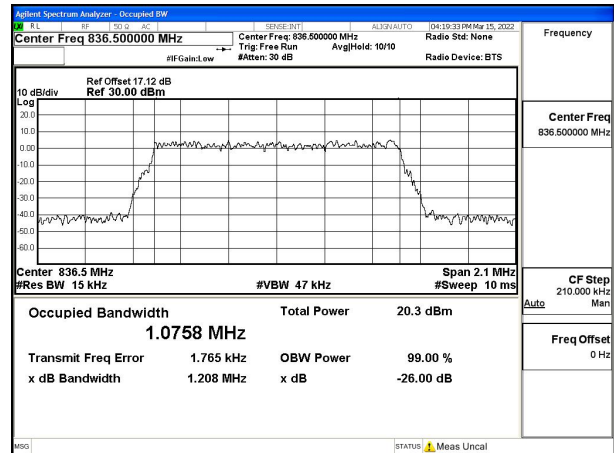


Fig.26

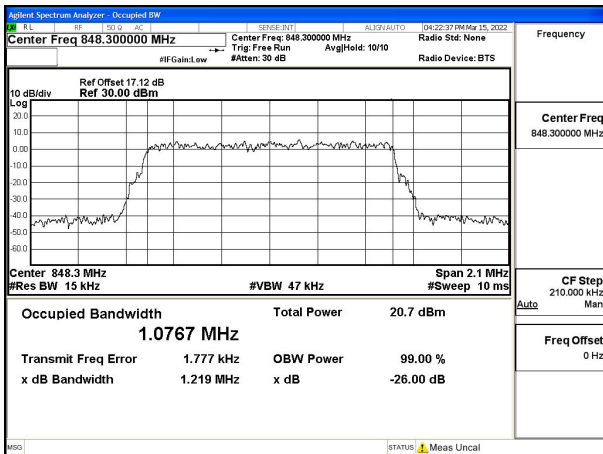


Fig.27

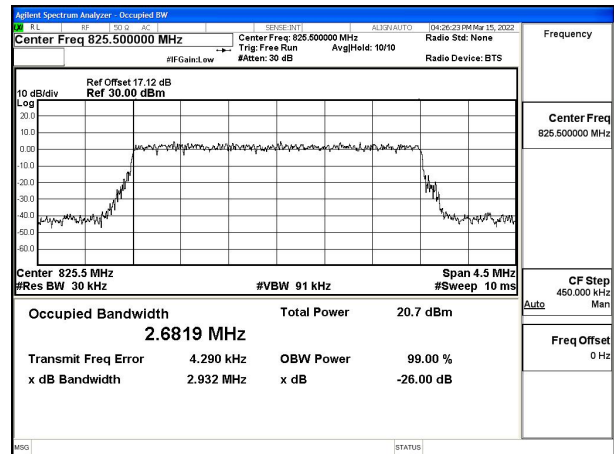


Fig.28

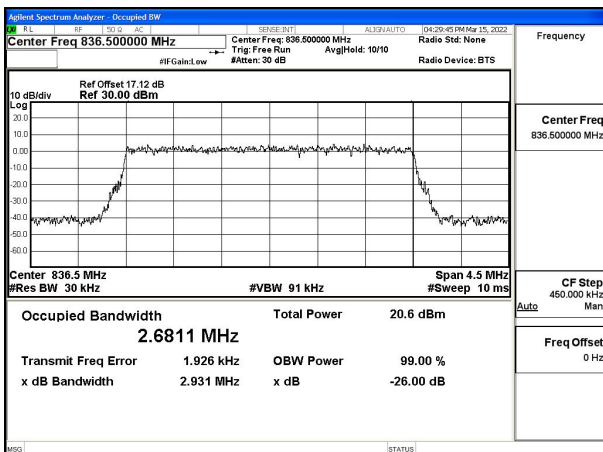


Fig.29

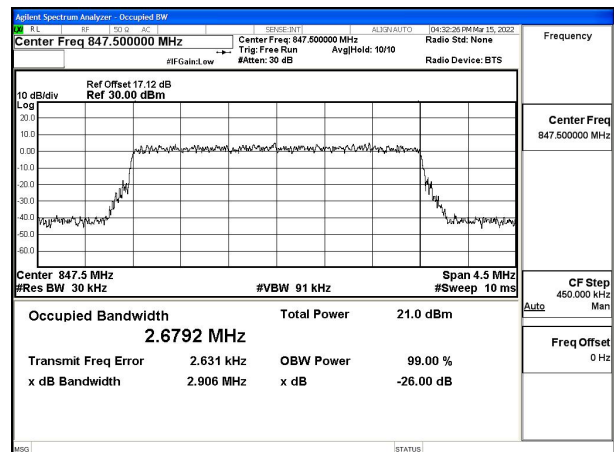


Fig.30

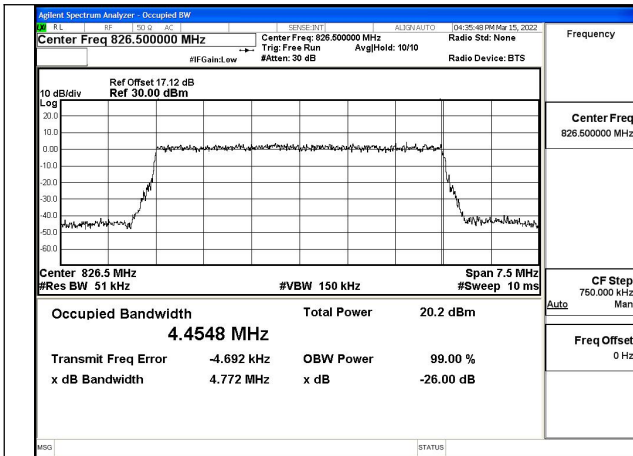


Fig.31

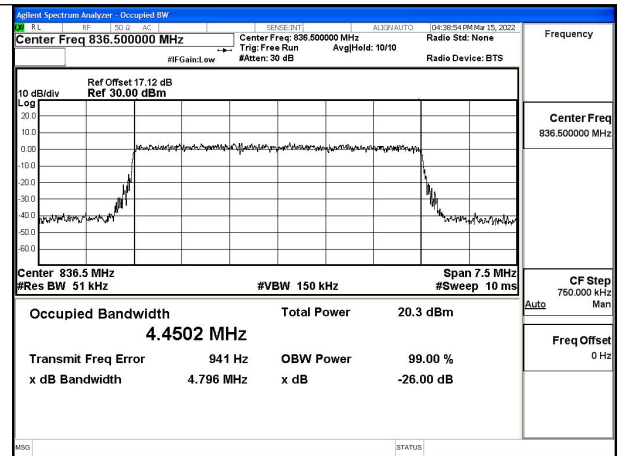


Fig.32

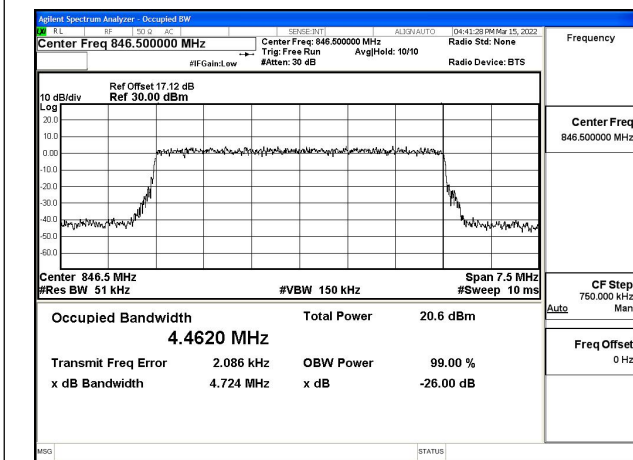


Fig.33

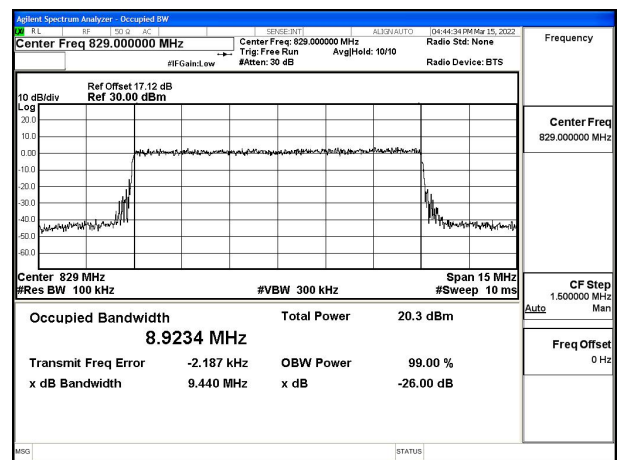


Fig.34

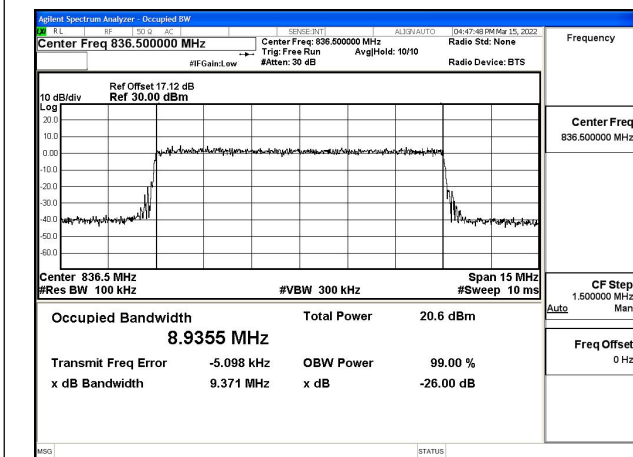


Fig.35

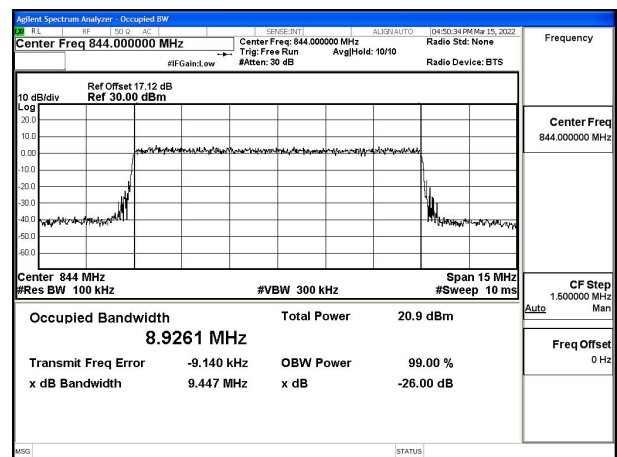


Fig.36

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	1.190	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	2.910	Fig.5
5	QPSK	847.5	20635	3	15	0	2.920	Fig.6
5	QPSK	826.5	20425	5	25	0	4.780	Fig.7
5	QPSK	836.5	20525	5	25	0	4.710	Fig.8
5	QPSK	846.5	20625	5	25	0	4.780	Fig.9
5	QPSK	829	20450	10	50	0	9.270	Fig.10
5	QPSK	836.5	20525	10	50	0	9.350	Fig.11
5	QPSK	844	20600	10	50	0	9.250	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	1.210	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.200	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.210	Fig.15
5	16QAM	825.5	20415	3	15	0	2.900	Fig.16
5	16QAM	836.5	20525	3	15	0	2.910	Fig.17
5	16QAM	847.5	20635	3	15	0	2.840	Fig.18
5	16QAM	826.5	20425	5	25	0	4.780	Fig.19
5	16QAM	836.5	20525	5	25	0	4.800	Fig.20
5	16QAM	846.5	20625	5	25	0	4.740	Fig.21
5	16QAM	829	20450	10	50	0	9.350	Fig.22
5	16QAM	836.5	20525	10	50	0	9.370	Fig.23
5	16QAM	844	20600	10	50	0	9.450	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	1.210	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.210	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.220	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	2.910	Fig.30
5	64QAM	826.5	20425	5	25	0	4.770	Fig.31
5	64QAM	836.5	20525	5	25	0	4.800	Fig.32
5	64QAM	846.5	20625	5	25	0	4.720	Fig.33
5	64QAM	829	20450	10	50	0	9.440	Fig.34
5	64QAM	836.5	20525	10	50	0	9.370	Fig.35
5	64QAM	844	20600	10	50	0	9.450	Fig.36

Test Mode: QPSK

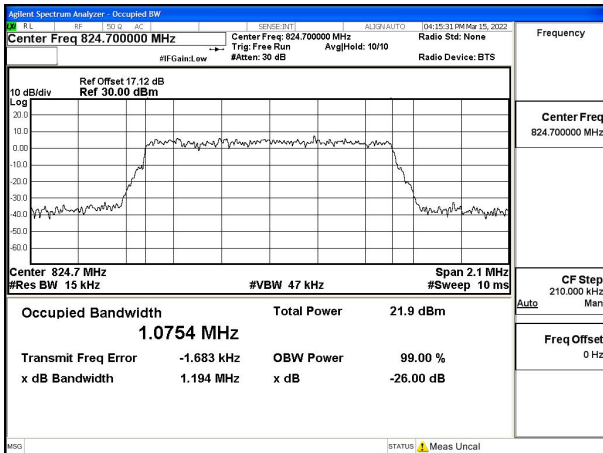


Fig.1

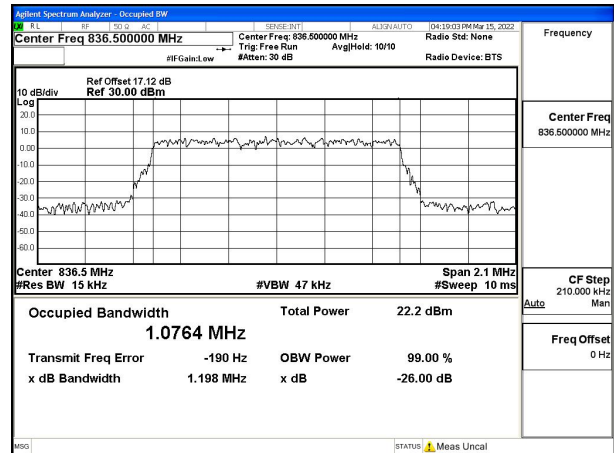


Fig.2

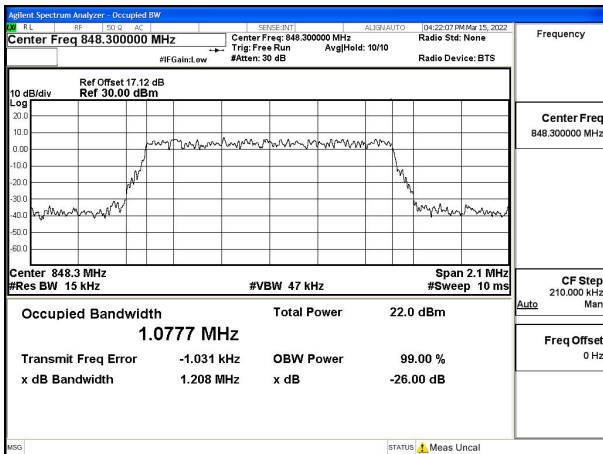


Fig.3

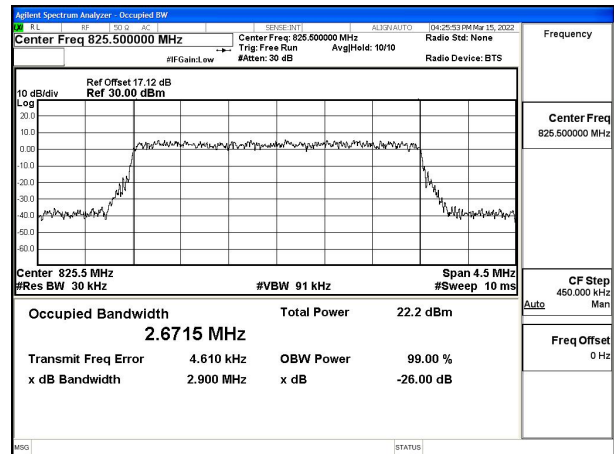


Fig.4

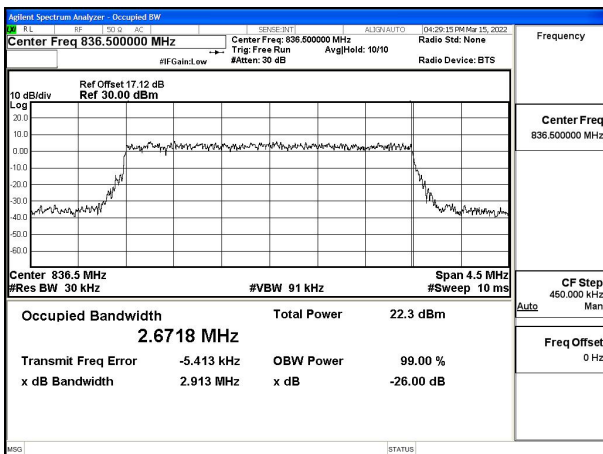


Fig.5

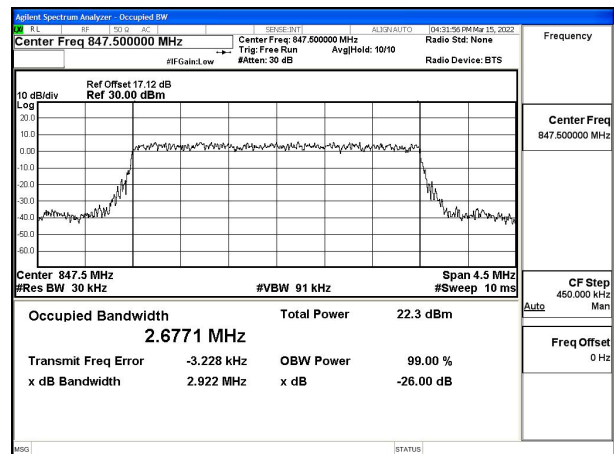


Fig.6