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	23.52
QPSK	824.7	20407	1.4	1	3	23.71
QPSK	824.7	20407	1.4	1	5	23.79
QPSK	824.7	20407	1.4	3	0	23.92
QPSK	824.7	20407	1.4	3	1	23.98
QPSK	824.7	20407	1.4	3	3	23.83
QPSK	824.7	20407	1.4	6	0	23.02
QPSK	836.5	20525	1.4	1	0	24.01
QPSK	836.5	20525	1.4	1	3	24.20
QPSK	836.5	20525	1.4	1	5	24.01
QPSK	836.5	20525	1.4	3	0	23.98
QPSK	836.5	20525	1.4	3	1	24.03
QPSK	836.5	20525	1.4	3	3	23.89
QPSK	836.5	20525	1.4	6	0	22.91
QPSK	848.3	20643	1.4	1	0	23.92
QPSK	848.3	20643	1.4	1	3	23.88
QPSK	848.3	20643	1.4	1	5	24.03
QPSK	848.3	20643	1.4	3	0	23.85
QPSK	848.3	20643	1.4	3	1	23.98
QPSK	848.3	20643	1.4	3	3	23.87
QPSK	848.3	20643	1.4	6	0	22.80

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	23.29
16QAM	824.7	20407	1.4	1	3	23.85
16QAM	824.7	20407	1.4	1	5	23.43
16QAM	824.7	20407	1.4	3	0	23.16
16QAM	824.7	20407	1.4	3	1	23.01
16QAM	824.7	20407	1.4	3	3	23.18
16QAM	824.7	20407	1.4	6	0	21.59
16QAM	836.5	20525	1.4	1	0	22.90
16QAM	836.5	20525	1.4	1	3	23.12
16QAM	836.5	20525	1.4	1	5	23.55
16QAM	836.5	20525	1.4	3	0	23.09
16QAM	836.5	20525	1.4	3	1	23.20
16QAM	836.5	20525	1.4	3	3	23.00
16QAM	836.5	20525	1.4	6	0	21.78
16QAM	848.3	20643	1.4	1	0	23.23
16QAM	848.3	20643	1.4	1	3	23.56
16QAM	848.3	20643	1.4	1	5	23.06
16QAM	848.3	20643	1.4	3	0	23.11
16QAM	848.3	20643	1.4	3	1	23.06
16QAM	848.3	20643	1.4	3	3	23.06
16QAM	848.3	20643	1.4	6	0	21.67
64QAM	824.7	20407	1.4	1	0	22.05
64QAM	824.7	20407	1.4	1	3	22.05
64QAM	824.7	20407	1.4	1	5	21.75
64QAM	824.7	20407	1.4	3	0	21.83
64QAM	824.7	20407	1.4	3	1	21.99
64QAM	824.7	20407	1.4	3	3	21.58
64QAM	824.7	20407	1.4	6	0	20.92
64QAM	836.5	20525	1.4	1	0	22.27
64QAM	836.5	20525	1.4	1	3	22.41
64QAM	836.5	20525	1.4	1	5	22.44
64QAM	836.5	20525	1.4	3	0	22.25
64QAM	836.5	20525	1.4	3	1	21.83
64QAM	836.5	20525	1.4	3	3	21.61
64QAM	836.5	20525	1.4	6	0	21.68
64QAM	848.3	20643	1.4	1	0	21.91
64QAM	848.3	20643	1.4	1	3	21.81
64QAM	848.3	20643	1.4	1	5	22.06
64QAM	848.3	20643	1.4	3	0	21.81
64QAM	848.3	20643	1.4	3	1	21.75
64QAM	848.3	20643	1.4	3	3	21.54
64QAM	848.3	20643	1.4	6	0	20.91

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.84
QPSK	825.5	20415	3	1	8	23.94
QPSK	825.5	20415	3	1	14	23.93
QPSK	825.5	20415	3	8	0	22.97
QPSK	825.5	20415	3	8	4	22.92
QPSK	825.5	20415	3	8	7	22.96
QPSK	825.5	20415	3	15	0	22.92
QPSK	836.5	20525	3	1	0	24.04
QPSK	836.5	20525	3	1	8	24.01
QPSK	836.5	20525	3	1	14	24.12
QPSK	836.5	20525	3	8	0	22.87
QPSK	836.5	20525	3	8	4	22.80
QPSK	836.5	20525	3	8	7	22.88
QPSK	836.5	20525	3	15	0	22.80
QPSK	847.5	20635	3	1	0	23.64
QPSK	847.5	20635	3	1	8	23.70
QPSK	847.5	20635	3	1	14	23.70
QPSK	847.5	20635	3	8	0	22.91
QPSK	847.5	20635	3	8	4	22.75
QPSK	847.5	20635	3	8	7	22.88
QPSK	847.5	20635	3	15	0	22.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	23.08
16QAM	825.5	20415	3	1	8	23.53
16QAM	825.5	20415	3	1	14	23.19
16QAM	825.5	20415	3	8	0	22.03
16QAM	825.5	20415	3	8	4	21.91
16QAM	825.5	20415	3	8	7	22.14
16QAM	825.5	20415	3	15	0	21.96
16QAM	836.5	20525	3	1	0	23.38
16QAM	836.5	20525	3	1	8	22.77
16QAM	836.5	20525	3	1	14	23.19
16QAM	836.5	20525	3	8	0	21.91
16QAM	836.5	20525	3	8	4	21.99
16QAM	836.5	20525	3	8	7	21.85
16QAM	836.5	20525	3	15	0	21.75
16QAM	847.5	20635	3	1	0	22.67
16QAM	847.5	20635	3	1	8	23.30
16QAM	847.5	20635	3	1	14	22.95
16QAM	847.5	20635	3	8	0	21.81
16QAM	847.5	20635	3	8	4	21.97
16QAM	847.5	20635	3	8	7	21.95
16QAM	847.5	20635	3	15	0	21.75
64QAM	825.5	20415	3	1	0	22.07
64QAM	825.5	20415	3	1	8	21.74
64QAM	825.5	20415	3	1	14	21.92
64QAM	825.5	20415	3	8	0	20.80
64QAM	825.5	20415	3	8	4	20.62
64QAM	825.5	20415	3	8	7	21.19
64QAM	825.5	20415	3	15	0	21.05
64QAM	836.5	20525	3	1	0	22.50
64QAM	836.5	20525	3	1	8	22.32
64QAM	836.5	20525	3	1	14	22.01
64QAM	836.5	20525	3	8	0	21.36
64QAM	836.5	20525	3	8	4	21.45
64QAM	836.5	20525	3	8	7	21.13
64QAM	836.5	20525	3	15	0	21.35
64QAM	847.5	20635	3	1	0	21.83
64QAM	847.5	20635	3	1	8	21.75
64QAM	847.5	20635	3	1	14	21.77
64QAM	847.5	20635	3	8	0	20.42
64QAM	847.5	20635	3	8	4	20.62
64QAM	847.5	20635	3	8	7	20.71
64QAM	847.5	20635	3	15	0	20.68

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.97
QPSK	826.5	20425	5	1	12	23.90
QPSK	826.5	20425	5	1	24	23.91
QPSK	826.5	20425	5	12	0	22.82
QPSK	826.5	20425	5	12	7	22.84
QPSK	826.5	20425	5	12	13	22.93
QPSK	826.5	20425	5	25	0	22.98
QPSK	836.5	20525	5	1	0	24.04
QPSK	836.5	20525	5	1	12	24.07
QPSK	836.5	20525	5	1	24	24.24
QPSK	836.5	20525	5	12	0	22.94
QPSK	836.5	20525	5	12	7	22.87
QPSK	836.5	20525	5	12	13	22.97
QPSK	836.5	20525	5	25	0	22.78
QPSK	846.5	20625	5	1	0	24.12
QPSK	846.5	20625	5	1	12	24.14
QPSK	846.5	20625	5	1	24	24.09
QPSK	846.5	20625	5	12	0	22.74
QPSK	846.5	20625	5	12	7	22.77
QPSK	846.5	20625	5	12	13	22.81
QPSK	846.5	20625	5	25	0	22.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	23.75
16QAM	826.5	20425	5	1	12	23.19
16QAM	826.5	20425	5	1	24	23.09
16QAM	826.5	20425	5	12	0	22.01
16QAM	826.5	20425	5	12	7	21.86
16QAM	826.5	20425	5	12	13	21.79
16QAM	826.5	20425	5	25	0	21.84
16QAM	836.5	20525	5	1	0	23.24
16QAM	836.5	20525	5	1	12	23.23
16QAM	836.5	20525	5	1	24	23.28
16QAM	836.5	20525	5	12	0	21.70
16QAM	836.5	20525	5	12	7	21.96
16QAM	836.5	20525	5	12	13	21.98
16QAM	836.5	20525	5	25	0	21.86
16QAM	846.5	20625	5	1	0	22.45
16QAM	846.5	20625	5	1	12	23.14
16QAM	846.5	20625	5	1	24	22.80
16QAM	846.5	20625	5	12	0	21.89
16QAM	846.5	20625	5	12	7	21.84
16QAM	846.5	20625	5	12	13	21.87
16QAM	846.5	20625	5	25	0	22.14
64QAM	826.5	20425	5	1	0	21.87
64QAM	826.5	20425	5	1	12	21.88
64QAM	826.5	20425	5	1	24	21.25
64QAM	826.5	20425	5	12	0	20.69
64QAM	826.5	20425	5	12	7	21.42
64QAM	826.5	20425	5	12	13	21.23
64QAM	826.5	20425	5	25	0	21.34
64QAM	836.5	20525	5	1	0	21.91
64QAM	836.5	20525	5	1	12	21.71
64QAM	836.5	20525	5	1	24	22.24
64QAM	836.5	20525	5	12	0	21.32
64QAM	836.5	20525	5	12	7	21.35
64QAM	836.5	20525	5	12	13	21.39
64QAM	836.5	20525	5	25	0	21.26
64QAM	846.5	20625	5	1	0	21.47
64QAM	846.5	20625	5	1	12	21.54
64QAM	846.5	20625	5	1	24	22.30
64QAM	846.5	20625	5	12	0	20.75
64QAM	846.5	20625	5	12	7	20.88
64QAM	846.5	20625	5	12	13	20.76
64QAM	846.5	20625	5	25	0	20.79

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	24.16
QPSK	829	20450	10	1	25	24.22
QPSK	829	20450	10	1	49	24.30
QPSK	829	20450	10	25	0	22.83
QPSK	829	20450	10	25	12	22.88
QPSK	829	20450	10	25	25	22.94
QPSK	829	20450	10	50	0	22.95
QPSK	836.5	20525	10	1	0	24.30
QPSK	836.5	20525	10	1	25	24.28
QPSK	836.5	20525	10	1	49	24.17
QPSK	836.5	20525	10	25	0	23.02
QPSK	836.5	20525	10	25	12	22.83
QPSK	836.5	20525	10	25	25	23.07
QPSK	836.5	20525	10	50	0	22.90
QPSK	844	20600	10	1	0	24.09
QPSK	844	20600	10	1	25	23.83
QPSK	844	20600	10	1	49	23.92
QPSK	844	20600	10	25	0	22.86
QPSK	844	20600	10	25	12	22.95
QPSK	844	20600	10	25	25	22.75
QPSK	844	20600	10	50	0	23.01

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	23.43
16QAM	829	20450	10	1	49	23.60
16QAM	829	20450	10	25	0	21.68
16QAM	829	20450	10	25	12	21.84
16QAM	829	20450	10	25	25	21.89
16QAM	829	20450	10	50	0	21.90
16QAM	836.5	20525	10	1	0	23.63
16QAM	836.5	20525	10	1	25	23.81
16QAM	836.5	20525	10	1	49	23.20
16QAM	836.5	20525	10	25	0	22.07
16QAM	836.5	20525	10	25	12	22.17
16QAM	836.5	20525	10	25	25	22.14
16QAM	836.5	20525	10	50	0	21.89
16QAM	844	20600	10	1	0	23.86
16QAM	844	20600	10	1	25	23.30
16QAM	844	20600	10	1	49	23.10
16QAM	844	20600	10	25	0	21.93
16QAM	844	20600	10	25	12	21.80
16QAM	844	20600	10	25	25	21.83
16QAM	844	20600	10	50	0	21.82
64QAM	829	20450	10	1	0	21.75
64QAM	829	20450	10	1	25	21.89
64QAM	829	20450	10	1	49	21.95
64QAM	829	20450	10	25	0	21.39
64QAM	829	20450	10	25	12	21.36
64QAM	829	20450	10	25	25	21.04
64QAM	829	20450	10	50	0	21.45
64QAM	836.5	20525	10	1	0	22.52
64QAM	836.5	20525	10	1	25	22.33
64QAM	836.5	20525	10	1	49	22.50
64QAM	836.5	20525	10	25	0	21.37
64QAM	836.5	20525	10	25	12	21.51
64QAM	836.5	20525	10	25	25	21.41
64QAM	836.5	20525	10	50	0	21.41
64QAM	844	20600	10	1	0	21.75
64QAM	844	20600	10	1	25	22.21
64QAM	844	20600	10	1	49	21.72
64QAM	844	20600	10	25	0	21.02
64QAM	844	20600	10	25	12	21.32
64QAM	844	20600	10	25	25	20.60
64QAM	844	20600	10	50	0	21.50

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	2.680	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	8.900	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	1.070	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	2.670	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	4.460	Fig.21
5	16QAM	829	20450	10	50	0	8.920	Fig.22
5	16QAM	836.5	20525	10	50	0	8.910	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	1.070	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.070	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	4.470	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	8.910	Fig.34
5	64QAM	836.5	20525	10	50	0	8.940	Fig.35
5	64QAM	844	20600	10	50	0	8.910	Fig.36

Test Mode: QPSK

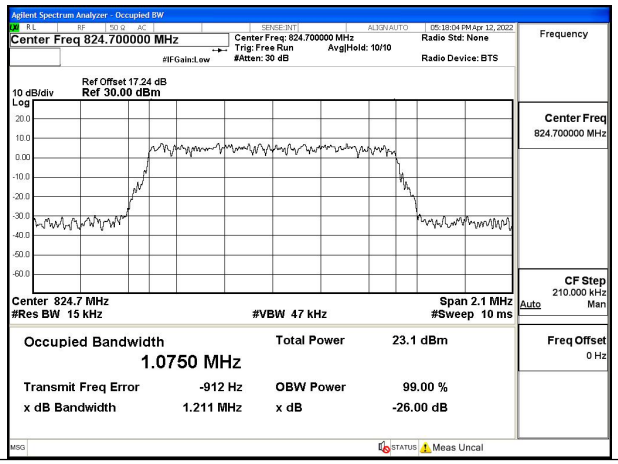

Fig.1

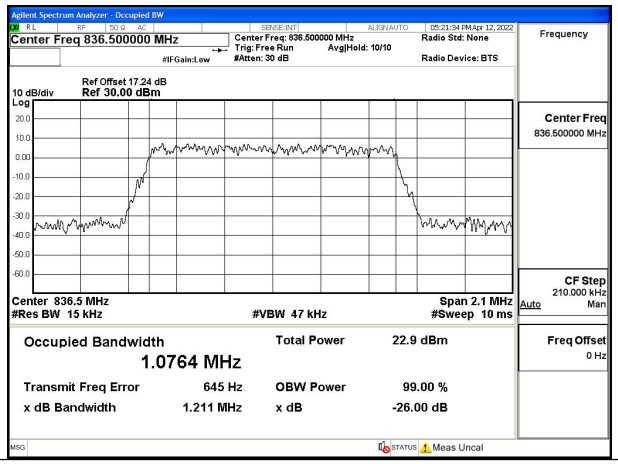

Fig.2

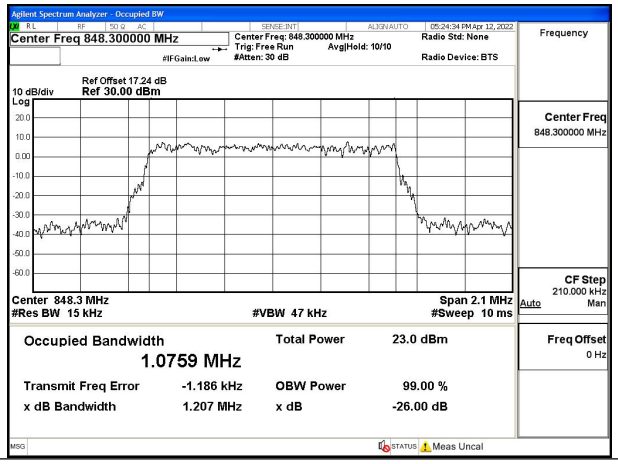

Fig.3

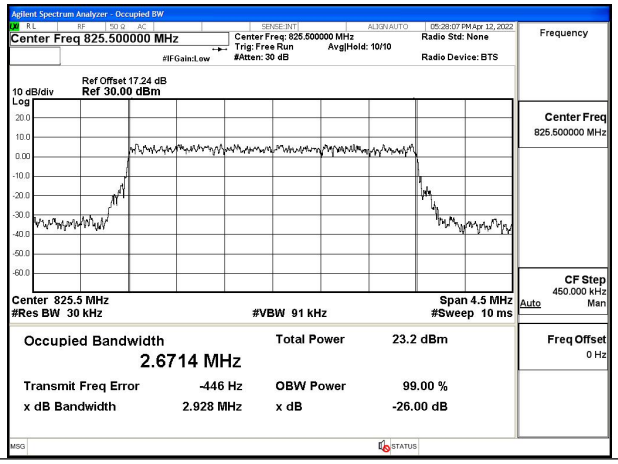

Fig.4

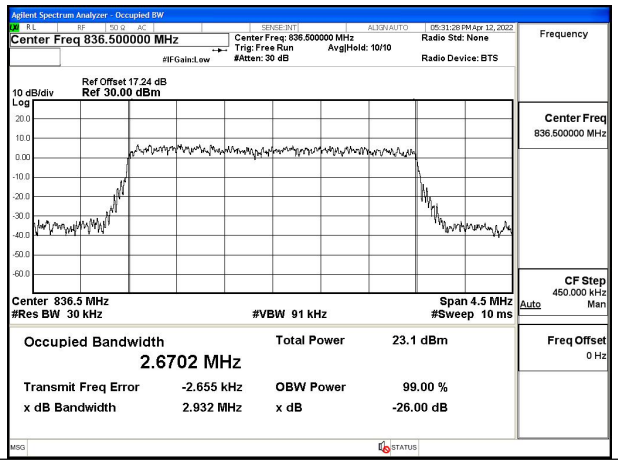

Fig.5

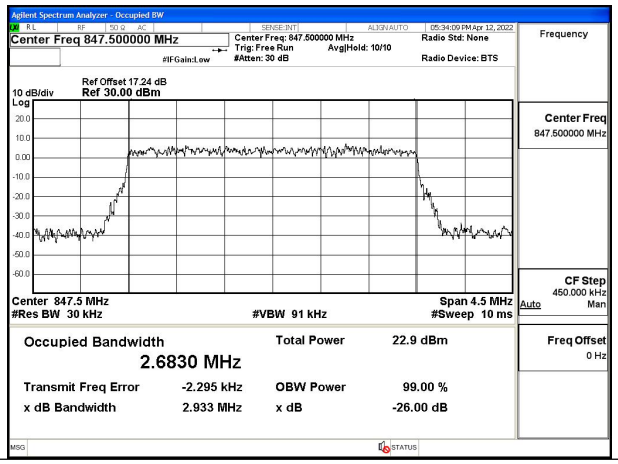

Fig.6

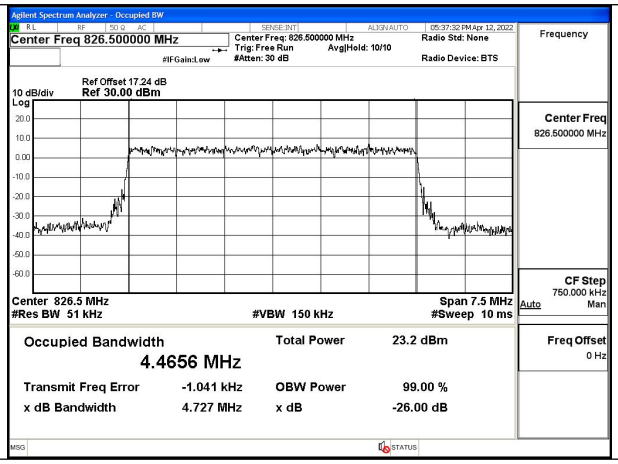

Fig.7

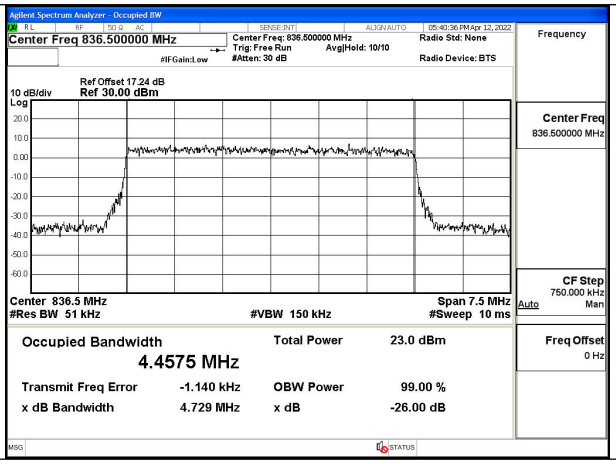

Fig.8

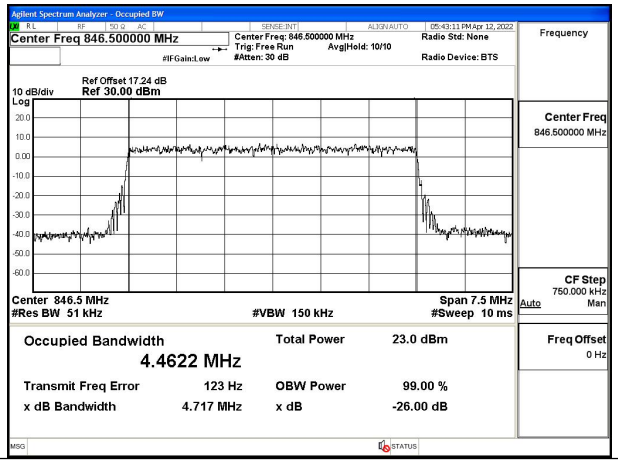

Fig.9

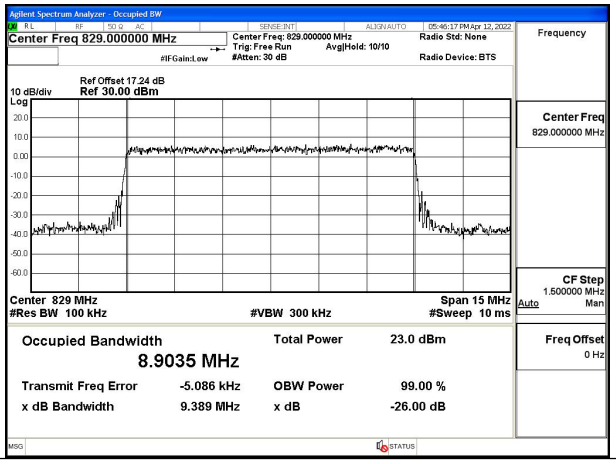

Fig.10

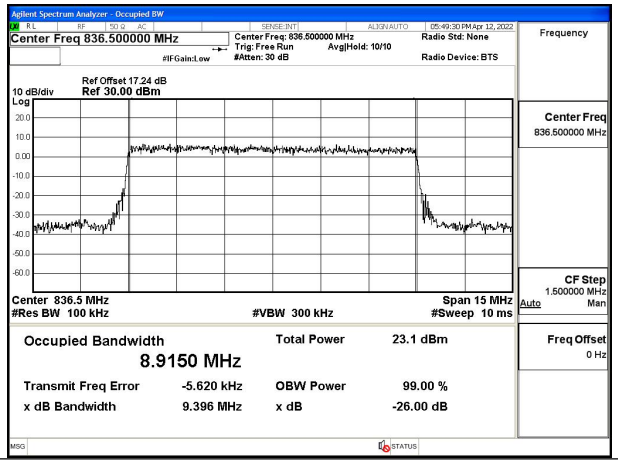

Fig.11

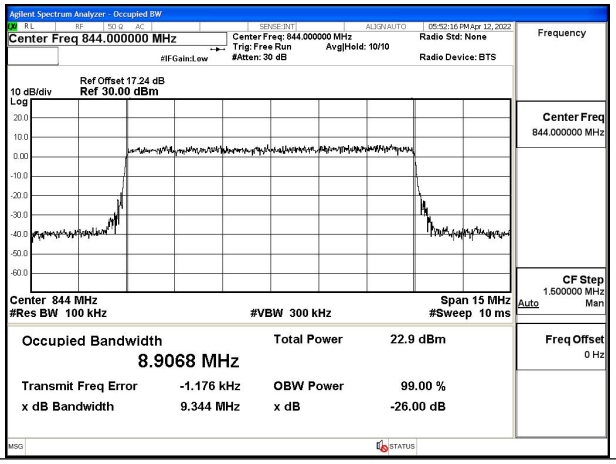

Fig.12

Test Mode: 16QAM

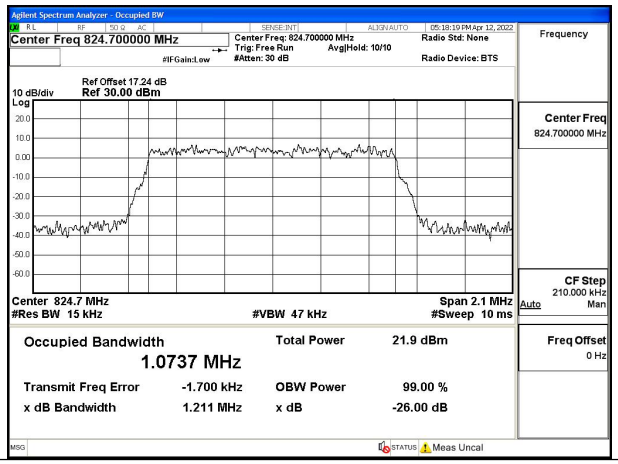

Fig.13

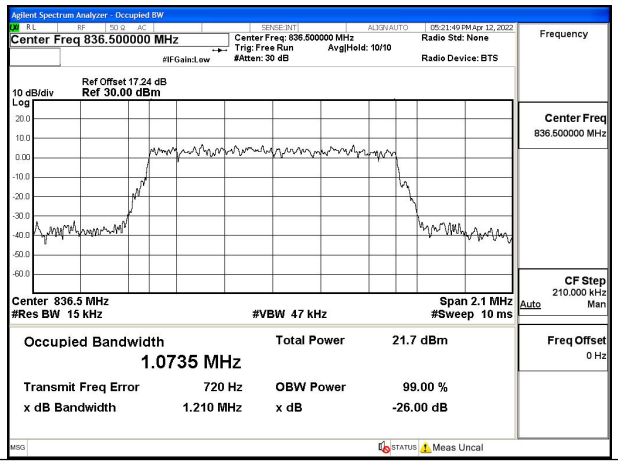

Fig.14

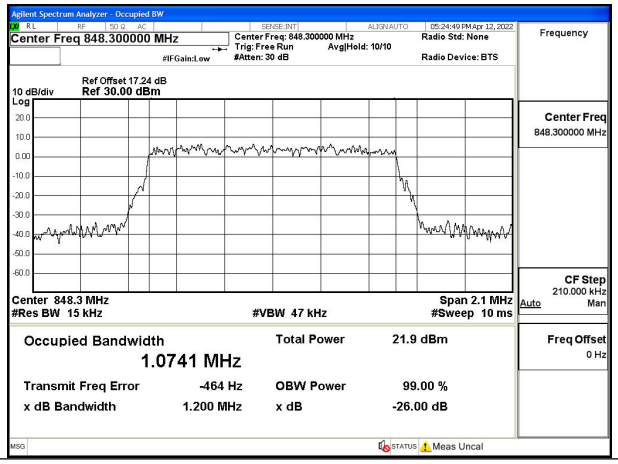

Fig.15

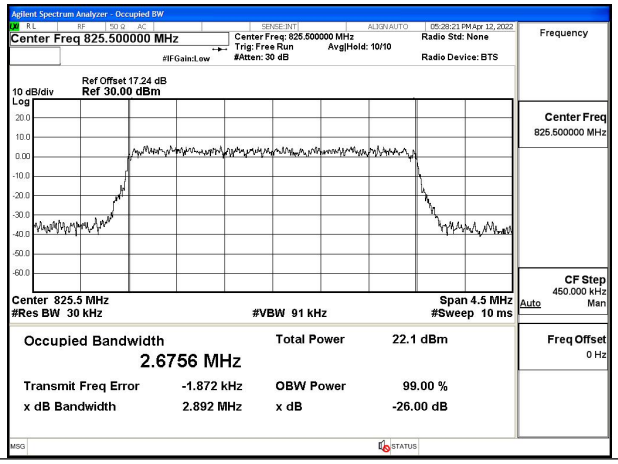

Fig.16

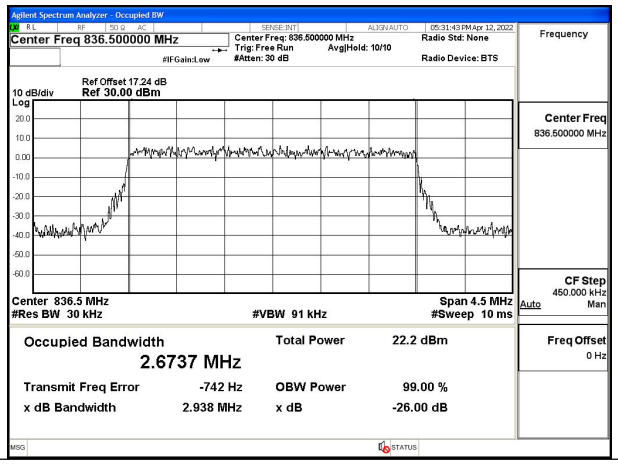

Fig.17

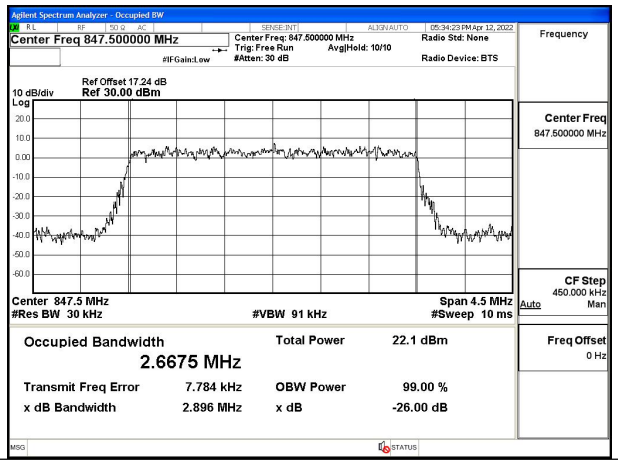

Fig.18

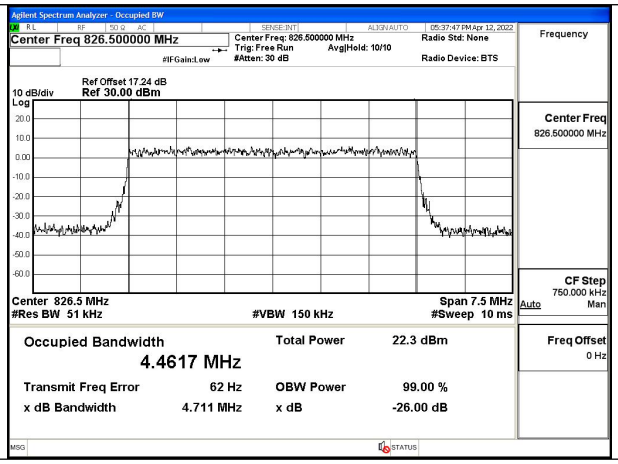

Fig.19

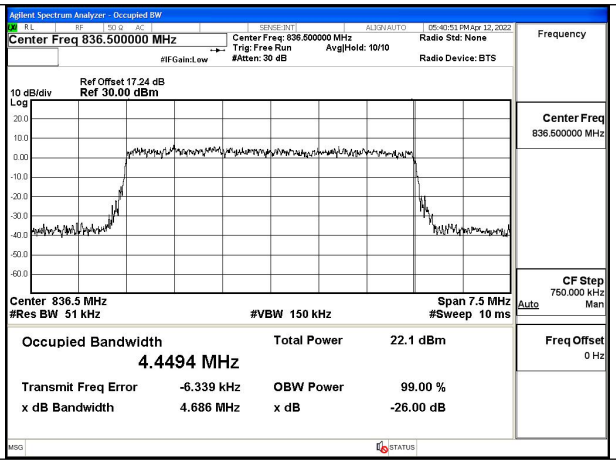

Fig.20

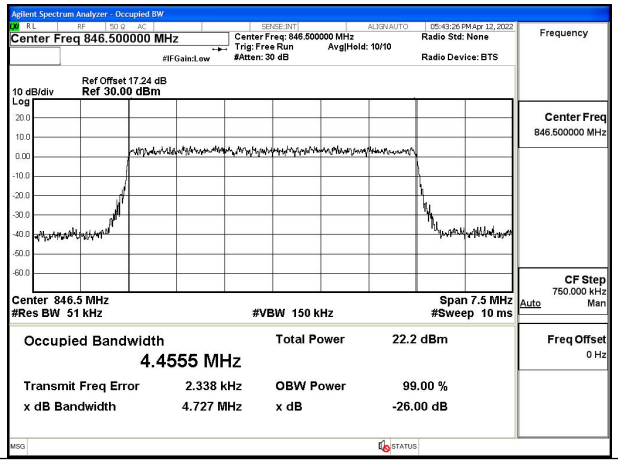

Fig.21

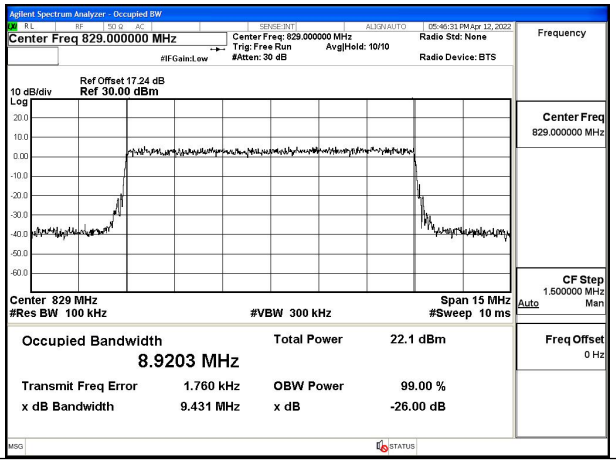

Fig.22

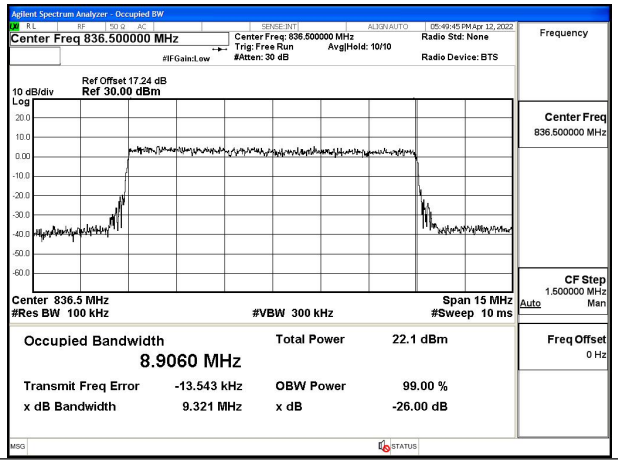

Fig.23

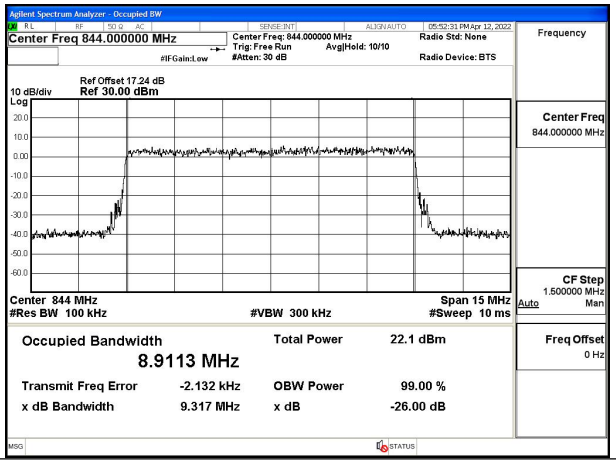

Fig.24

Test Mode: 64QAM

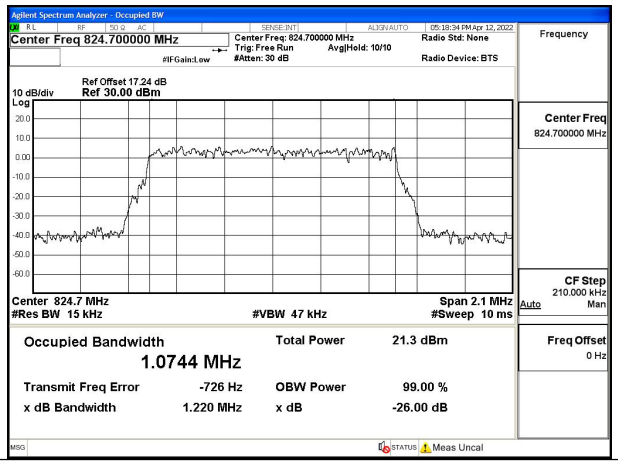

Fig.25

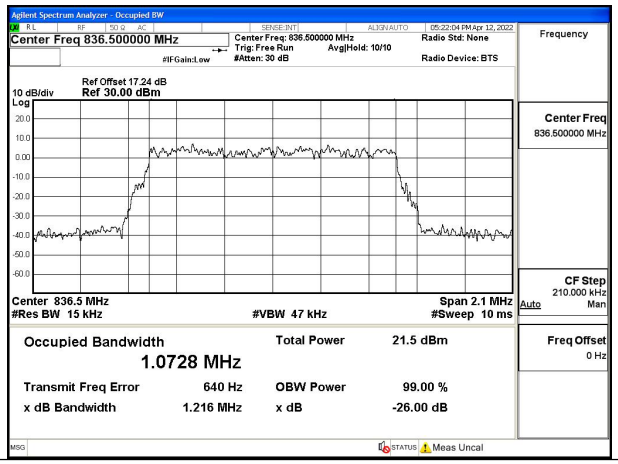

Fig.26

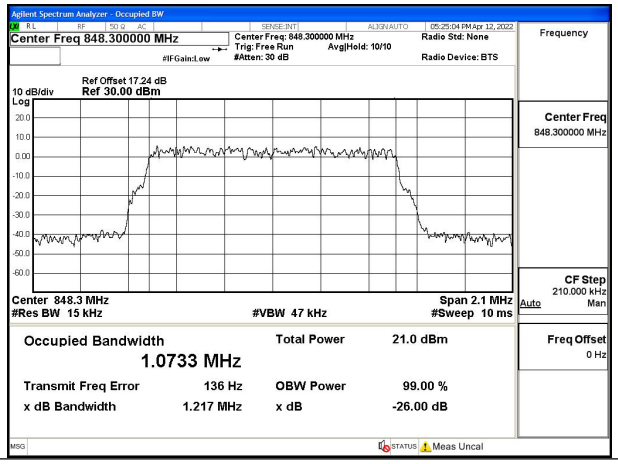

Fig.27

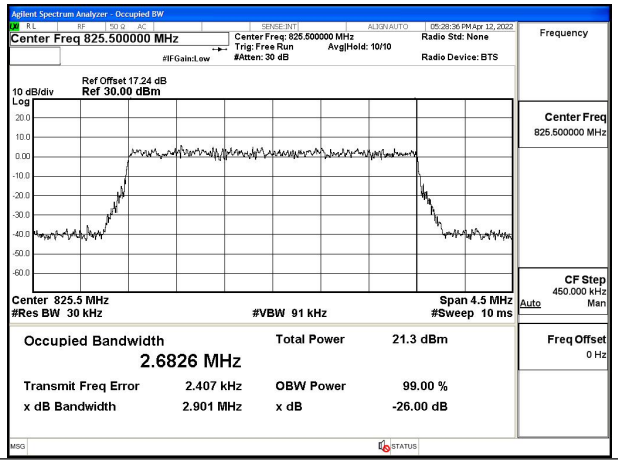

Fig.28

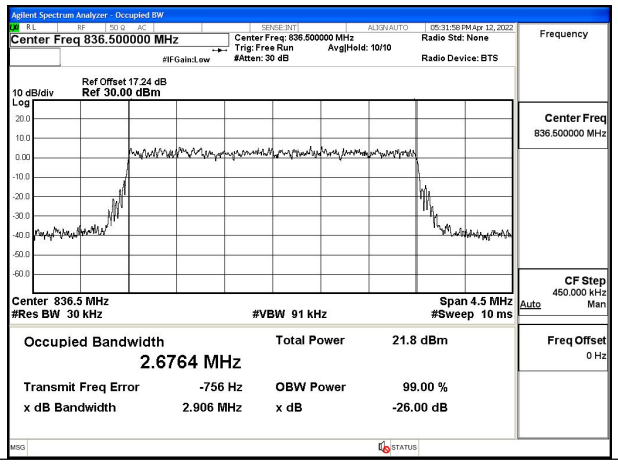

Fig.29

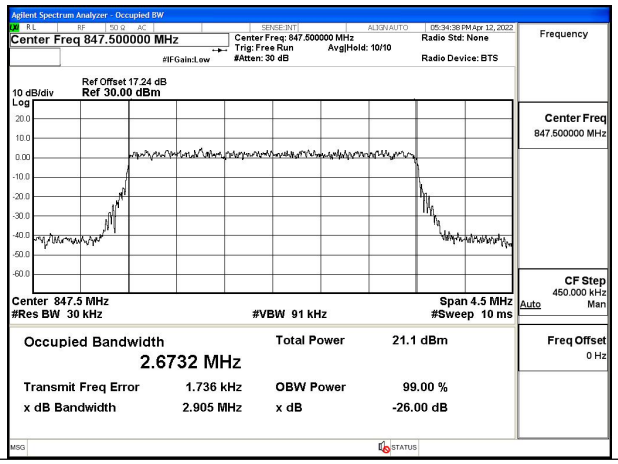

Fig.30

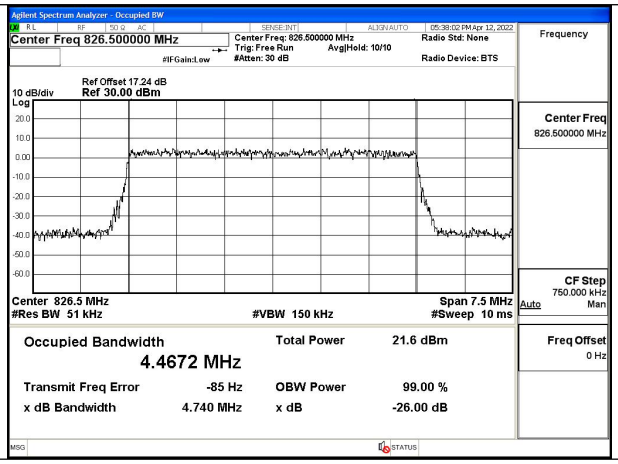

Fig.31

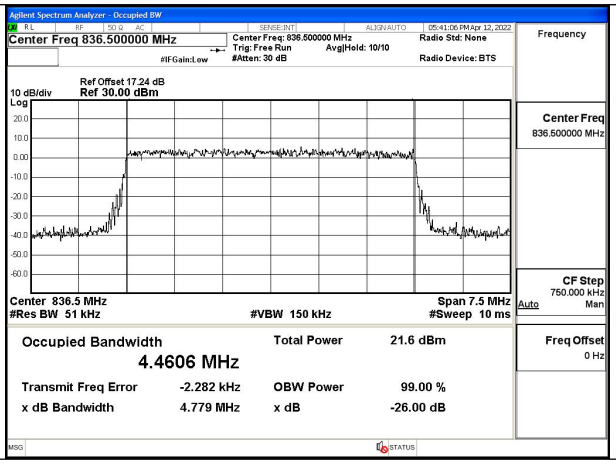

Fig.32

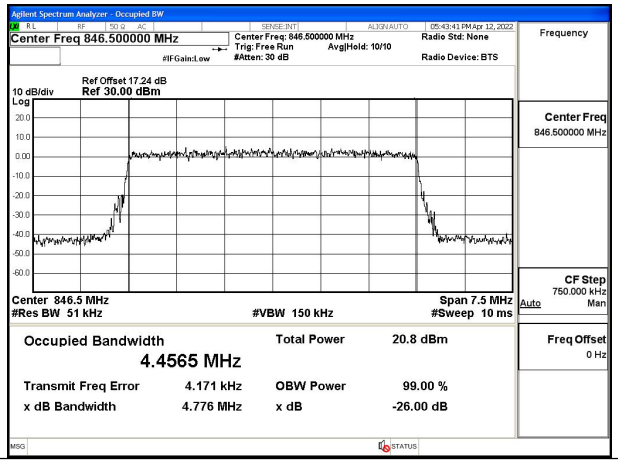

Fig.33

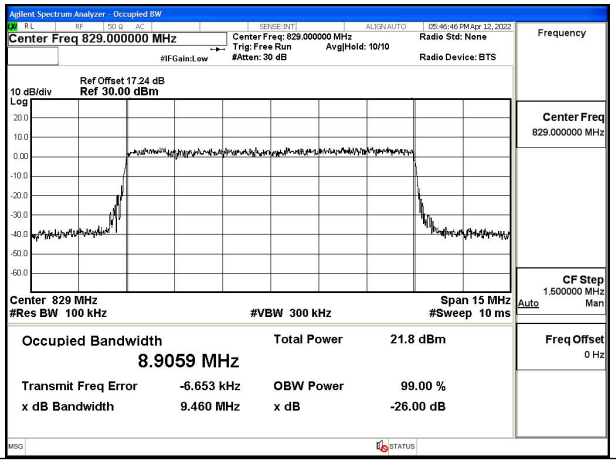

Fig.34

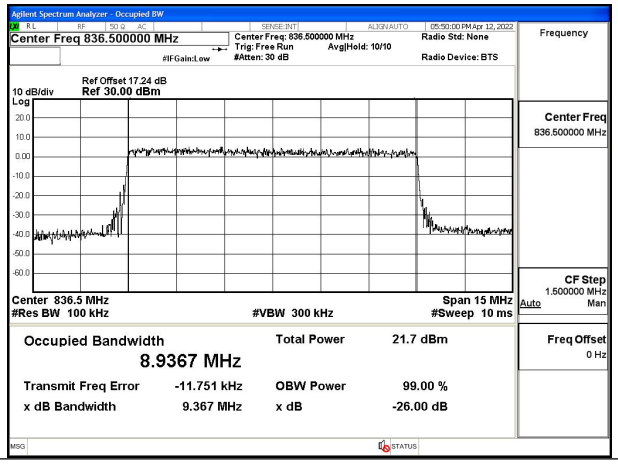

Fig.35

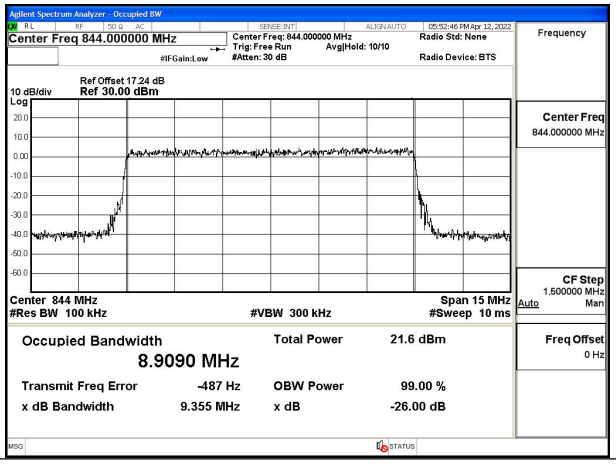

Fig.36

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	1.210	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	2.930	Fig.5
5	QPSK	847.5	20635	3	15	0	2.930	Fig.6
5	QPSK	826.5	20425	5	25	0	4.730	Fig.7
5	QPSK	836.5	20525	5	25	0	4.730	Fig.8
5	QPSK	846.5	20625	5	25	0	4.720	Fig.9
5	QPSK	829	20450	10	50	0	9.390	Fig.10
5	QPSK	836.5	20525	10	50	0	9.400	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	1.210	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.210	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.200	Fig.15
5	16QAM	825.5	20415	3	15	0	2.890	Fig.16
5	16QAM	836.5	20525	3	15	0	2.940	Fig.17
5	16QAM	847.5	20635	3	15	0	2.900	Fig.18
5	16QAM	826.5	20425	5	25	0	4.710	Fig.19
5	16QAM	836.5	20525	5	25	0	4.690	Fig.20
5	16QAM	846.5	20625	5	25	0	4.730	Fig.21
5	16QAM	829	20450	10	50	0	9.430	Fig.22
5	16QAM	836.5	20525	10	50	0	9.320	Fig.23
5	16QAM	844	20600	10	50	0	9.320	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	1.220	Fig.27
5	64QAM	825.5	20415	3	15	0	2.900	Fig.28
5	64QAM	836.5	20525	3	15	0	2.910	Fig.29
5	64QAM	847.5	20635	3	15	0	2.900	Fig.30
5	64QAM	826.5	20425	5	25	0	4.740	Fig.31
5	64QAM	836.5	20525	5	25	0	4.780	Fig.32
5	64QAM	846.5	20625	5	25	0	4.780	Fig.33
5	64QAM	829	20450	10	50	0	9.460	Fig.34
5	64QAM	836.5	20525	10	50	0	9.370	Fig.35
5	64QAM	844	20600	10	50	0	9.360	Fig.36

Test Mode: QPSK

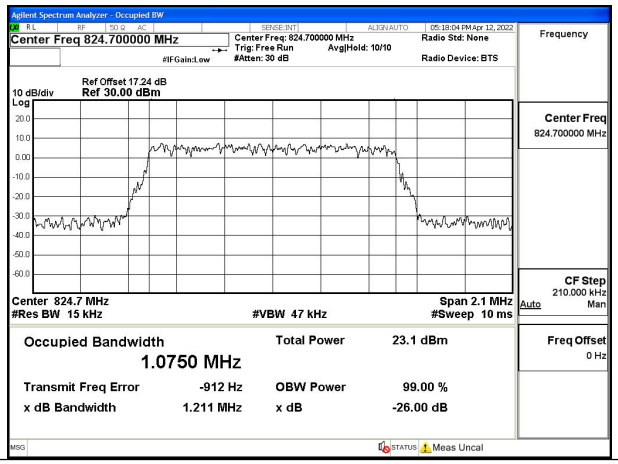

Fig.1

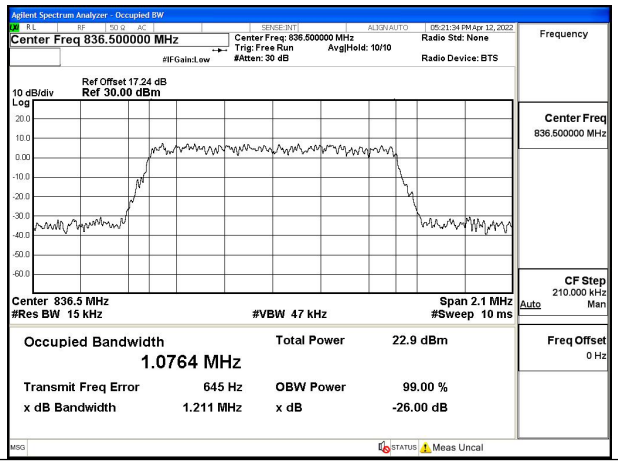

Fig.2

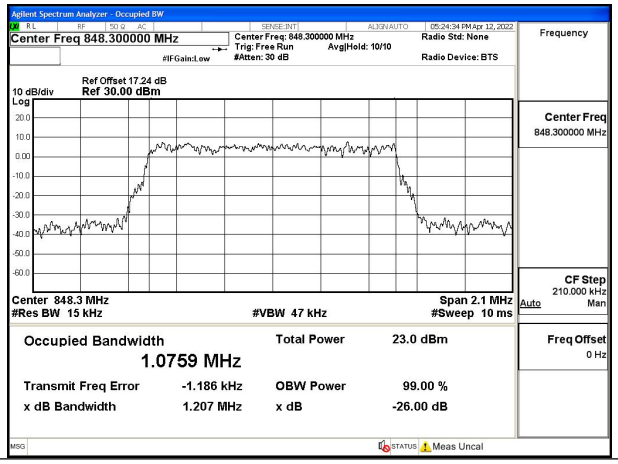

Fig.3

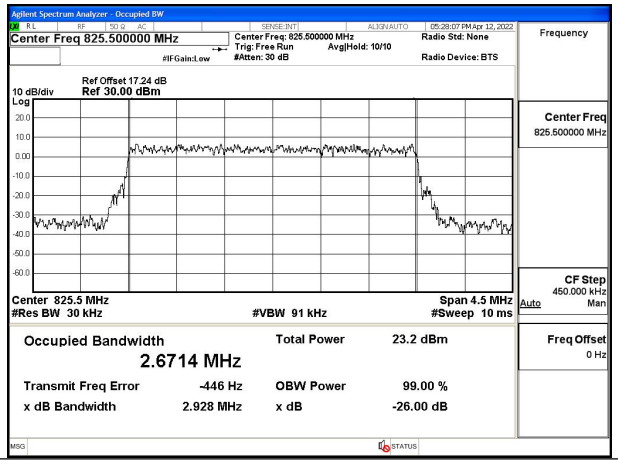

Fig.4

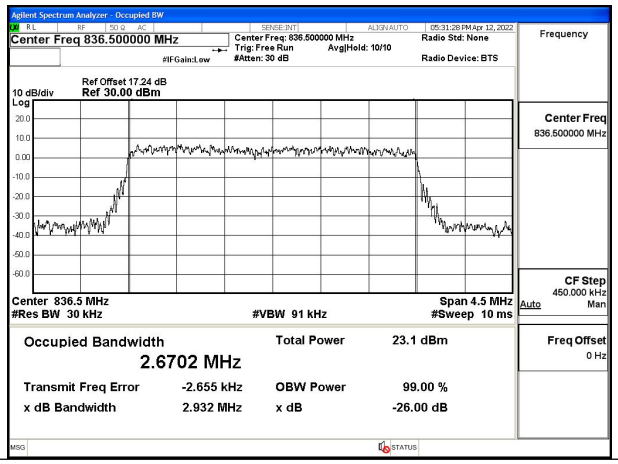

Fig.5

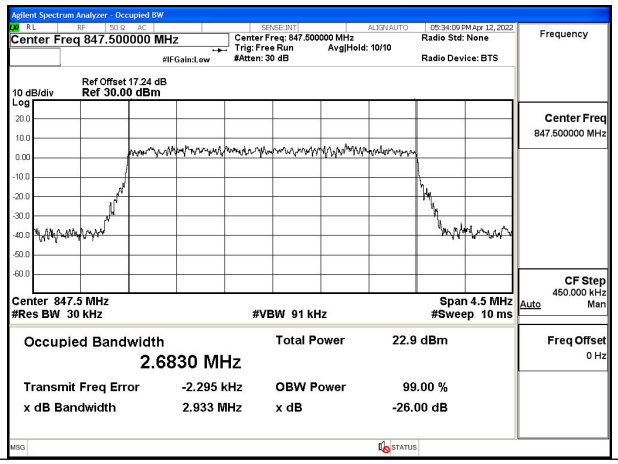

Fig.6