

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	22.81
QPSK	824.7	20407	1.4	1	3	23.00
QPSK	824.7	20407	1.4	1	5	23.19
QPSK	824.7	20407	1.4	3	0	23.12
QPSK	824.7	20407	1.4	3	1	23.03
QPSK	824.7	20407	1.4	3	3	23.06
QPSK	824.7	20407	1.4	6	0	22.12
QPSK	836.5	20525	1.4	1	0	22.78
QPSK	836.5	20525	1.4	1	3	22.83
QPSK	836.5	20525	1.4	1	5	22.86
QPSK	836.5	20525	1.4	3	0	22.93
QPSK	836.5	20525	1.4	3	1	22.91
QPSK	836.5	20525	1.4	3	3	22.91
QPSK	836.5	20525	1.4	6	0	21.95
QPSK	848.3	20643	1.4	1	0	23.03
QPSK	848.3	20643	1.4	1	3	22.81
QPSK	848.3	20643	1.4	1	5	22.73
QPSK	848.3	20643	1.4	3	0	22.79
QPSK	848.3	20643	1.4	3	1	22.82
QPSK	848.3	20643	1.4	3	3	22.90
QPSK	848.3	20643	1.4	6	0	21.86

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.48
16QAM	824.7	20407	1.4	1	3	22.34
16QAM	824.7	20407	1.4	1	5	22.32
16QAM	824.7	20407	1.4	3	0	22.21
16QAM	824.7	20407	1.4	3	1	22.18
16QAM	824.7	20407	1.4	3	3	21.99
16QAM	824.7	20407	1.4	6	0	21.30
16QAM	836.5	20525	1.4	1	0	22.00
16QAM	836.5	20525	1.4	1	3	22.04
16QAM	836.5	20525	1.4	1	5	22.61
16QAM	836.5	20525	1.4	3	0	22.07
16QAM	836.5	20525	1.4	3	1	22.03
16QAM	836.5	20525	1.4	3	3	22.05
16QAM	836.5	20525	1.4	6	0	21.12
16QAM	848.3	20643	1.4	1	0	22.54
16QAM	848.3	20643	1.4	1	3	22.10
16QAM	848.3	20643	1.4	1	5	22.20

16QAM	848.3	20643	1.4	3	0	22.20
16QAM	848.3	20643	1.4	3	1	21.83
16QAM	848.3	20643	1.4	3	3	22.06
16QAM	848.3	20643	1.4	6	0	21.02
64QAM	824.7	20407	1.4	1	0	22.52
64QAM	824.7	20407	1.4	1	3	22.34
64QAM	824.7	20407	1.4	1	5	22.24
64QAM	824.7	20407	1.4	3	0	22.54
64QAM	824.7	20407	1.4	3	1	22.16
64QAM	824.7	20407	1.4	3	3	22.33
64QAM	824.7	20407	1.4	6	0	21.20
64QAM	836.5	20525	1.4	1	0	21.90
64QAM	836.5	20525	1.4	1	3	22.08
64QAM	836.5	20525	1.4	1	5	22.12
64QAM	836.5	20525	1.4	3	0	21.94
64QAM	836.5	20525	1.4	3	1	22.24
64QAM	836.5	20525	1.4	3	3	22.24
64QAM	836.5	20525	1.4	6	0	21.02
64QAM	848.3	20643	1.4	1	0	21.71
64QAM	848.3	20643	1.4	1	3	22.16
64QAM	848.3	20643	1.4	1	5	22.11
64QAM	848.3	20643	1.4	3	0	21.70
64QAM	848.3	20643	1.4	3	1	22.04
64QAM	848.3	20643	1.4	3	3	22.07
64QAM	848.3	20643	1.4	6	0	21.07

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	22.93
QPSK	825.5	20415	3	1	8	23.11
QPSK	825.5	20415	3	1	14	22.91
QPSK	825.5	20415	3	8	0	22.17
QPSK	825.5	20415	3	8	4	22.09
QPSK	825.5	20415	3	8	7	22.08
QPSK	825.5	20415	3	15	0	22.14
QPSK	836.5	20525	3	1	0	22.91
QPSK	836.5	20525	3	1	8	22.92
QPSK	836.5	20525	3	1	14	22.67
QPSK	836.5	20525	3	8	0	21.89
QPSK	836.5	20525	3	8	4	21.98
QPSK	836.5	20525	3	8	7	21.95
QPSK	836.5	20525	3	15	0	21.96
QPSK	847.5	20635	3	1	0	22.65
QPSK	847.5	20635	3	1	8	23.01
QPSK	847.5	20635	3	1	14	22.79
QPSK	847.5	20635	3	8	0	21.82

QPSK	847.5	20635	3	8	4	21.93
QPSK	847.5	20635	3	8	7	21.92
QPSK	847.5	20635	3	15	0	21.83

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.11
16QAM	825.5	20415	3	1	8	22.42
16QAM	825.5	20415	3	1	14	22.67
16QAM	825.5	20415	3	8	0	21.17
16QAM	825.5	20415	3	8	4	21.12
16QAM	825.5	20415	3	8	7	21.23
16QAM	825.5	20415	3	15	0	21.10
16QAM	836.5	20525	3	1	0	22.65
16QAM	836.5	20525	3	1	8	22.42
16QAM	836.5	20525	3	1	14	21.79
16QAM	836.5	20525	3	8	0	21.03
16QAM	836.5	20525	3	8	4	21.04
16QAM	836.5	20525	3	8	7	21.06
16QAM	836.5	20525	3	15	0	20.92
16QAM	847.5	20635	3	1	0	22.20
16QAM	847.5	20635	3	1	8	22.59
16QAM	847.5	20635	3	1	14	22.06
16QAM	847.5	20635	3	8	0	20.96
16QAM	847.5	20635	3	8	4	21.02
16QAM	847.5	20635	3	8	7	20.95
16QAM	847.5	20635	3	15	0	20.81
64QAM	825.5	20415	3	1	0	21.87
64QAM	825.5	20415	3	1	8	22.34
64QAM	825.5	20415	3	1	14	22.03
64QAM	825.5	20415	3	8	0	21.05
64QAM	825.5	20415	3	8	4	21.15
64QAM	825.5	20415	3	8	7	21.19
64QAM	825.5	20415	3	15	0	21.11
64QAM	836.5	20525	3	1	0	22.27
64QAM	836.5	20525	3	1	8	22.50
64QAM	836.5	20525	3	1	14	22.04
64QAM	836.5	20525	3	8	0	20.82
64QAM	836.5	20525	3	8	4	20.99
64QAM	836.5	20525	3	8	7	21.08
64QAM	836.5	20525	3	15	0	20.92
64QAM	847.5	20635	3	1	0	22.21
64QAM	847.5	20635	3	1	8	22.25
64QAM	847.5	20635	3	1	14	21.92
64QAM	847.5	20635	3	8	0	20.84
64QAM	847.5	20635	3	8	4	20.93

64QAM	847.5	20635	3	8	7	20.87
64QAM	847.5	20635	3	15	0	20.79

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.01
QPSK	826.5	20425	5	1	12	23.03
QPSK	826.5	20425	5	1	24	22.93
QPSK	826.5	20425	5	12	0	22.03
QPSK	826.5	20425	5	12	7	22.12
QPSK	826.5	20425	5	12	13	22.06
QPSK	826.5	20425	5	25	0	22.07
QPSK	836.5	20525	5	1	0	22.94
QPSK	836.5	20525	5	1	12	22.97
QPSK	836.5	20525	5	1	24	22.77
QPSK	836.5	20525	5	12	0	21.97
QPSK	836.5	20525	5	12	7	22.02
QPSK	836.5	20525	5	12	13	21.90
QPSK	836.5	20525	5	25	0	21.84
QPSK	846.5	20625	5	1	0	22.79
QPSK	846.5	20625	5	1	12	22.89
QPSK	846.5	20625	5	1	24	22.86
QPSK	846.5	20625	5	12	0	21.85
QPSK	846.5	20625	5	12	7	21.92
QPSK	846.5	20625	5	12	13	21.90
QPSK	846.5	20625	5	25	0	21.79

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.77
16QAM	826.5	20425	5	1	12	22.44
16QAM	826.5	20425	5	1	24	22.53
16QAM	826.5	20425	5	12	0	21.13
16QAM	826.5	20425	5	12	7	21.05
16QAM	826.5	20425	5	12	13	21.17
16QAM	826.5	20425	5	25	0	21.10
16QAM	836.5	20525	5	1	0	22.44
16QAM	836.5	20525	5	1	12	22.60
16QAM	836.5	20525	5	1	24	22.02
16QAM	836.5	20525	5	12	0	20.97
16QAM	836.5	20525	5	12	7	21.03
16QAM	836.5	20525	5	12	13	21.07
16QAM	836.5	20525	5	25	0	20.88
16QAM	846.5	20625	5	1	0	22.20
16QAM	846.5	20625	5	1	12	22.52
16QAM	846.5	20625	5	1	24	22.49
16QAM	846.5	20625	5	12	0	20.91
16QAM	846.5	20625	5	12	7	21.00

16QAM	846.5	20625	5	12	13	20.92
16QAM	846.5	20625	5	25	0	20.99
64QAM	826.5	20425	5	1	0	22.34
64QAM	826.5	20425	5	1	12	22.38
64QAM	826.5	20425	5	1	24	21.82
64QAM	826.5	20425	5	12	0	21.03
64QAM	826.5	20425	5	12	7	21.20
64QAM	826.5	20425	5	12	13	21.09
64QAM	826.5	20425	5	25	0	21.04
64QAM	836.5	20525	5	1	0	21.84
64QAM	836.5	20525	5	1	12	21.77
64QAM	836.5	20525	5	1	24	21.61
64QAM	836.5	20525	5	12	0	20.96
64QAM	836.5	20525	5	12	7	21.21
64QAM	836.5	20525	5	12	13	20.91
64QAM	836.5	20525	5	25	0	20.92
64QAM	846.5	20625	5	1	0	21.99
64QAM	846.5	20625	5	1	12	22.27
64QAM	846.5	20625	5	1	24	21.70
64QAM	846.5	20625	5	12	0	20.86
64QAM	846.5	20625	5	12	7	21.09
64QAM	846.5	20625	5	12	13	20.96
64QAM	846.5	20625	5	25	0	20.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.03
QPSK	829	20450	10	1	25	23.04
QPSK	829	20450	10	1	49	22.99
QPSK	829	20450	10	25	0	22.07
QPSK	829	20450	10	25	12	22.18
QPSK	829	20450	10	25	25	21.95
QPSK	829	20450	10	50	0	22.07
QPSK	836.5	20525	10	1	0	22.98
QPSK	836.5	20525	10	1	25	22.91
QPSK	836.5	20525	10	1	49	22.87
QPSK	836.5	20525	10	25	0	22.02
QPSK	836.5	20525	10	25	12	21.94
QPSK	836.5	20525	10	25	25	21.84
QPSK	836.5	20525	10	50	0	21.89
QPSK	844	20600	10	1	0	22.90
QPSK	844	20600	10	1	25	22.93
QPSK	844	20600	10	1	49	22.70
QPSK	844	20600	10	25	0	21.91
QPSK	844	20600	10	25	12	21.88
QPSK	844	20600	10	25	25	21.96

QPSK	844	20600	10	50	0	21.80
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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.70
16QAM	829	20450	10	1	25	22.02
16QAM	829	20450	10	1	49	22.09
16QAM	829	20450	10	25	0	21.03
16QAM	829	20450	10	25	12	21.12
16QAM	829	20450	10	25	25	20.99
16QAM	829	20450	10	50	0	21.09
16QAM	836.5	20525	10	1	0	22.54
16QAM	836.5	20525	10	1	25	22.33
16QAM	836.5	20525	10	1	49	22.23
16QAM	836.5	20525	10	25	0	20.96
16QAM	836.5	20525	10	25	12	21.00
16QAM	836.5	20525	10	25	25	20.93
16QAM	836.5	20525	10	50	0	20.96
16QAM	844	20600	10	1	0	22.35
16QAM	844	20600	10	1	25	22.37
16QAM	844	20600	10	1	49	21.79
16QAM	844	20600	10	25	0	20.92
16QAM	844	20600	10	25	12	20.90
16QAM	844	20600	10	25	25	20.99
16QAM	844	20600	10	50	0	20.84
64QAM	829	20450	10	1	0	22.34
64QAM	829	20450	10	1	25	22.21
64QAM	829	20450	10	1	49	22.22
64QAM	829	20450	10	25	0	21.02
64QAM	829	20450	10	25	12	21.13
64QAM	829	20450	10	25	25	21.01
64QAM	829	20450	10	50	0	21.08
64QAM	836.5	20525	10	1	0	21.88
64QAM	836.5	20525	10	1	25	22.15
64QAM	836.5	20525	10	1	49	22.00
64QAM	836.5	20525	10	25	0	20.95
64QAM	836.5	20525	10	25	12	20.96
64QAM	836.5	20525	10	25	25	20.97
64QAM	836.5	20525	10	50	0	20.90
64QAM	844	20600	10	1	0	21.87
64QAM	844	20600	10	1	25	22.13
64QAM	844	20600	10	1	49	21.98
64QAM	844	20600	10	25	0	20.96
64QAM	844	20600	10	25	12	20.93
64QAM	844	20600	10	25	25	20.89
64QAM	844	20600	10	50	0	20.97

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	1.075	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.073	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.075	Fig.3
5	QPSK	825.5	20415	3	15	0	2.680	Fig.4
5	QPSK	836.5	20525	3	15	0	2.673	Fig.5
5	QPSK	847.5	20635	3	15	0	2.688	Fig.6
5	QPSK	826.5	20425	5	25	0	4.471	Fig.7
5	QPSK	836.5	20525	5	25	0	4.480	Fig.8
5	QPSK	846.5	20625	5	25	0	4.476	Fig.9
5	QPSK	829	20450	10	50	0	8.915	Fig.10
5	QPSK	836.5	20525	10	50	0	8.921	Fig.11
5	QPSK	844	20600	10	50	0	8.949	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	1.071	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	2.677	Fig.16
5	16QAM	836.5	20525	3	15	0	2.664	Fig.17
5	16QAM	847.5	20635	3	15	0	2.684	Fig.18
5	16QAM	826.5	20425	5	25	0	4.437	Fig.19
5	16QAM	836.5	20525	5	25	0	4.456	Fig.20
5	16QAM	846.5	20625	5	25	0	4.466	Fig.21
5	16QAM	829	20450	10	50	0	8.949	Fig.22
5	16QAM	836.5	20525	10	50	0	8.916	Fig.23
5	16QAM	844	20600	10	50	0	8.950	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	1.076	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.079	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.077	Fig.27
5	64QAM	825.5	20415	3	15	0	2.684	Fig.28
5	64QAM	836.5	20525	3	15	0	2.668	Fig.29
5	64QAM	847.5	20635	3	15	0	2.681	Fig.30
5	64QAM	826.5	20425	5	25	0	4.455	Fig.31
5	64QAM	836.5	20525	5	25	0	4.453	Fig.32
5	64QAM	846.5	20625	5	25	0	4.455	Fig.33
5	64QAM	829	20450	10	50	0	8.924	Fig.34
5	64QAM	836.5	20525	10	50	0	8.921	Fig.35
5	64QAM	844	20600	10	50	0	8.910	Fig.36

Test Mode: QPSK

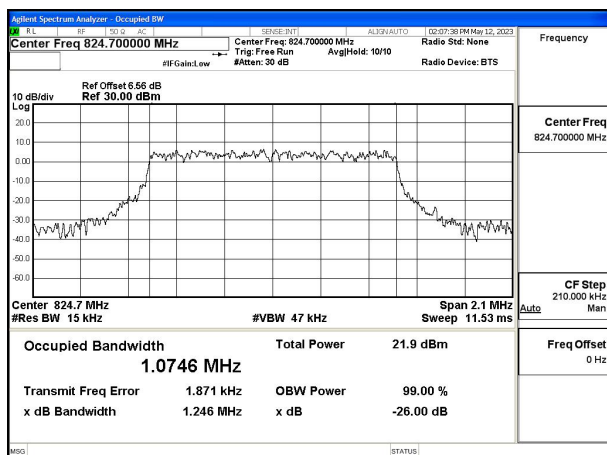


Fig.1

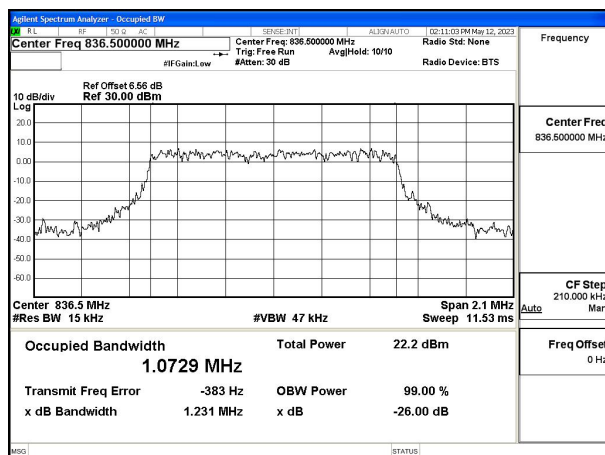


Fig.2

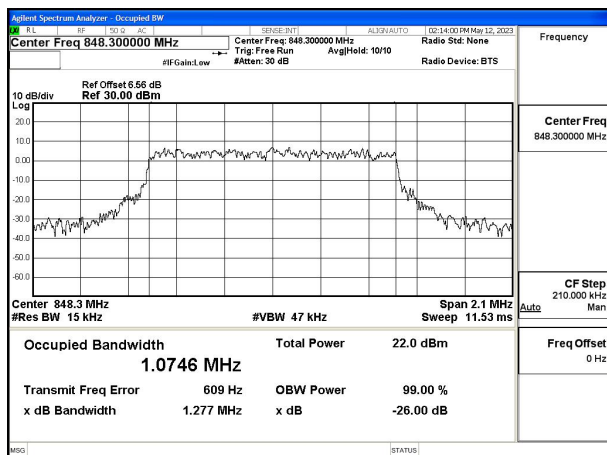


Fig.3

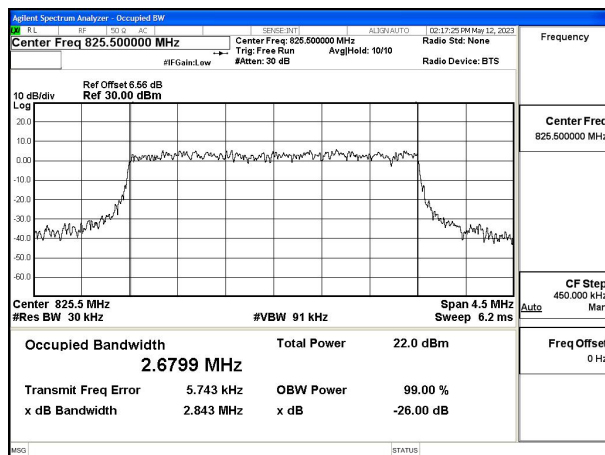


Fig.4

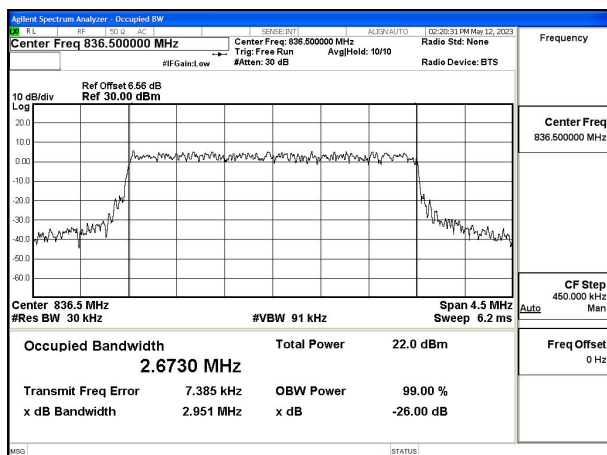


Fig.5

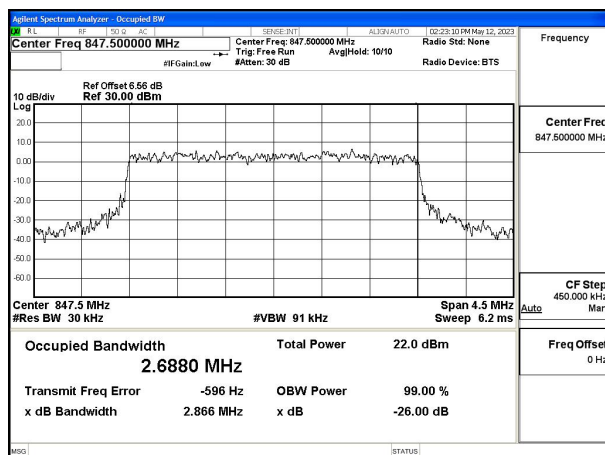


Fig.6

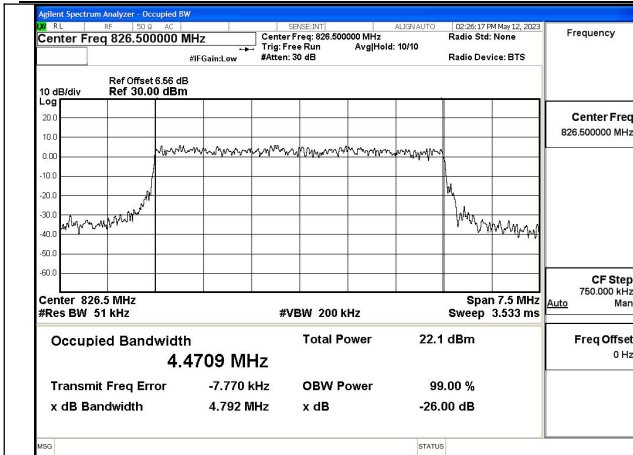


Fig.7

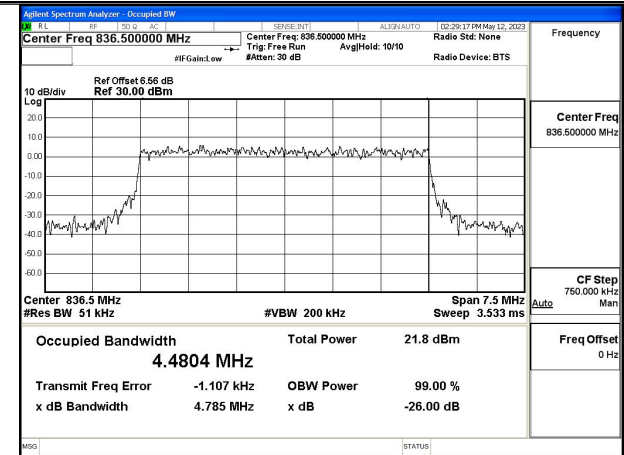


Fig.8

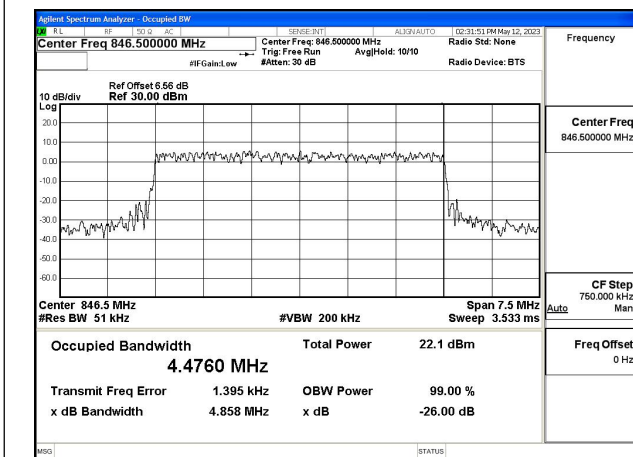


Fig.9

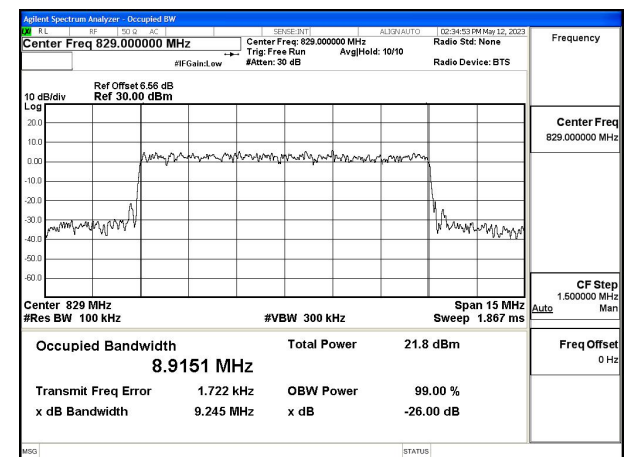


Fig.10

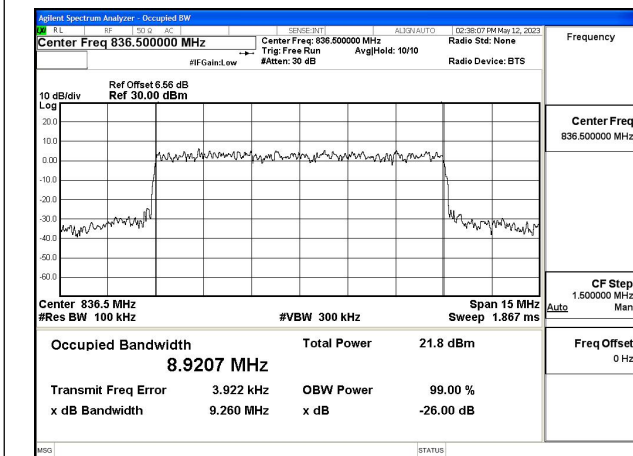


Fig.11

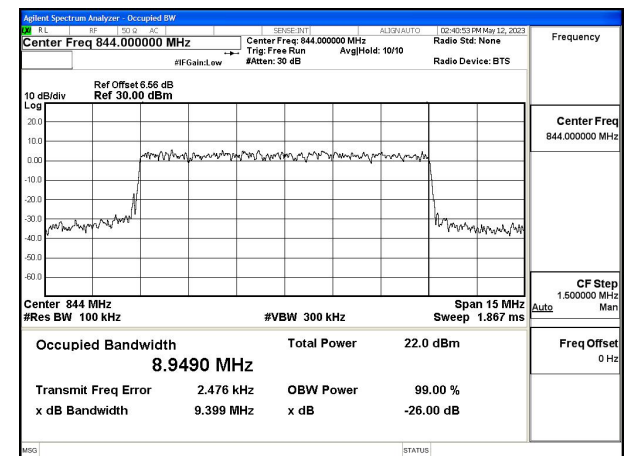


Fig.12

Test Mode: 16QAM

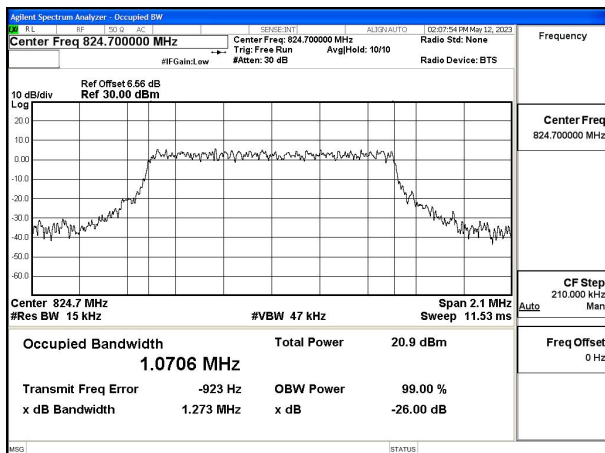


Fig.13

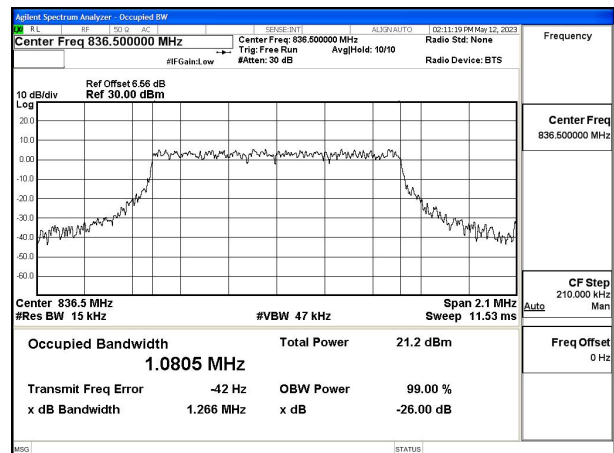


Fig.14

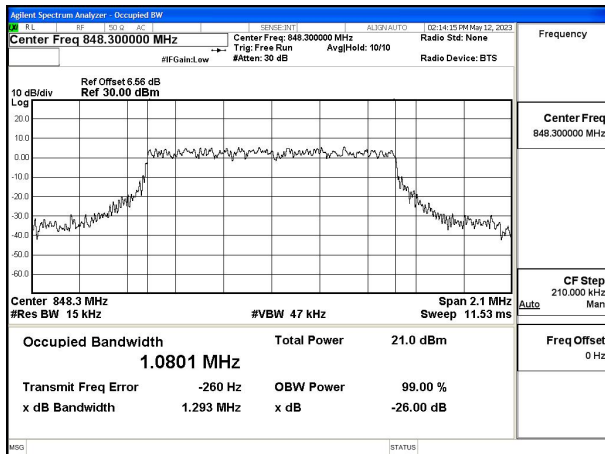


Fig.15

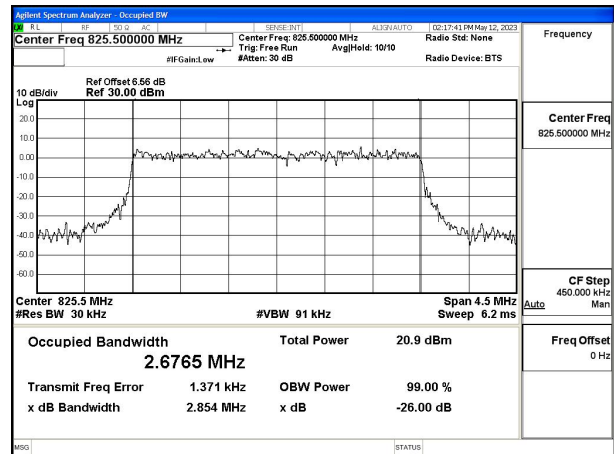


Fig.16

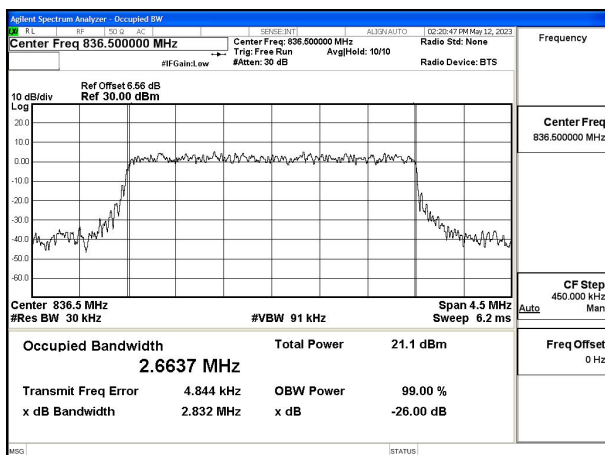


Fig.17

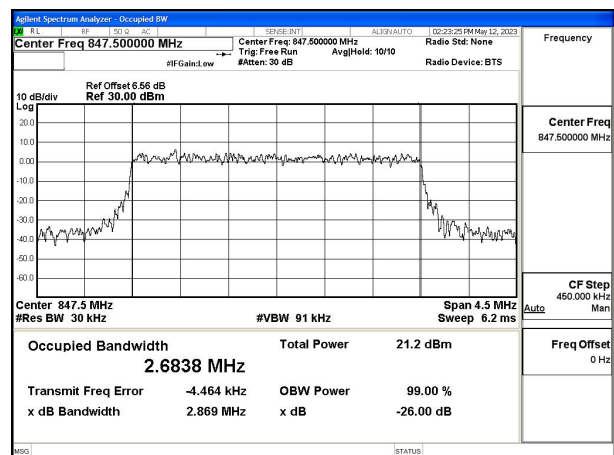


Fig.18

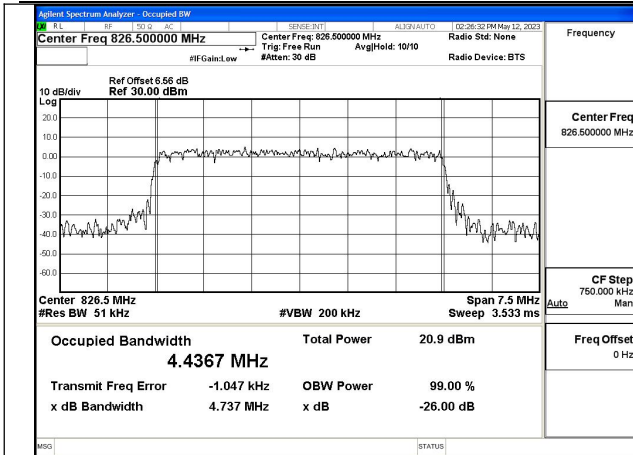


Fig.19

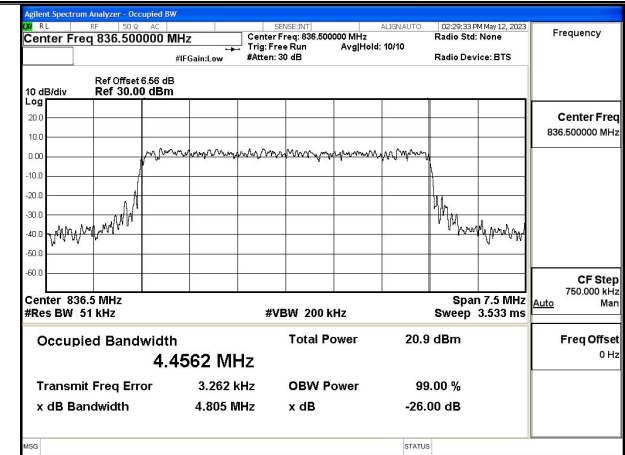


Fig.20

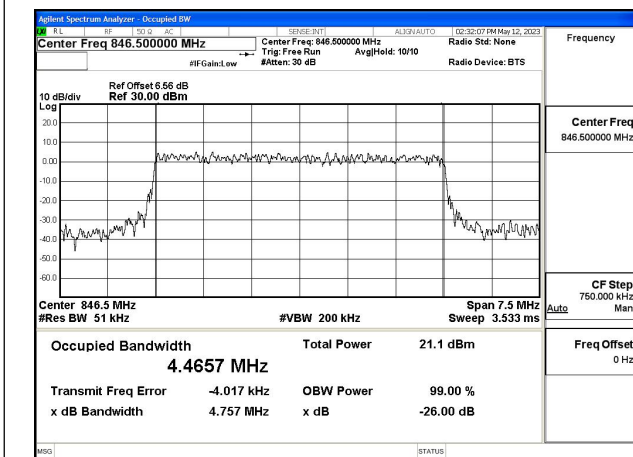


Fig.21

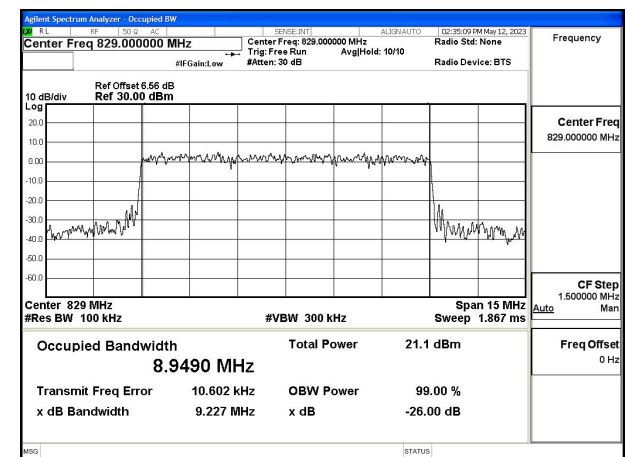


Fig.22

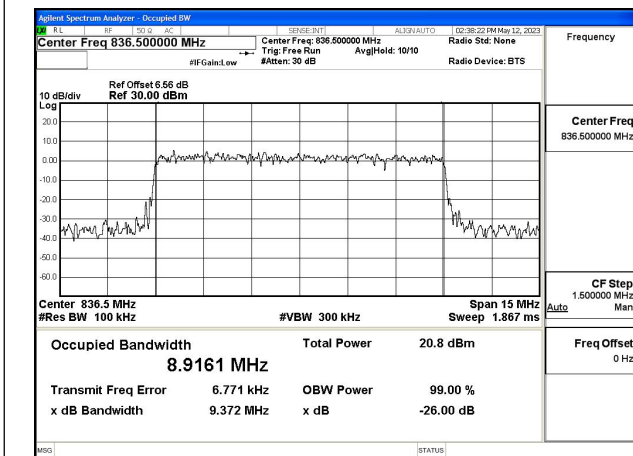


Fig.23

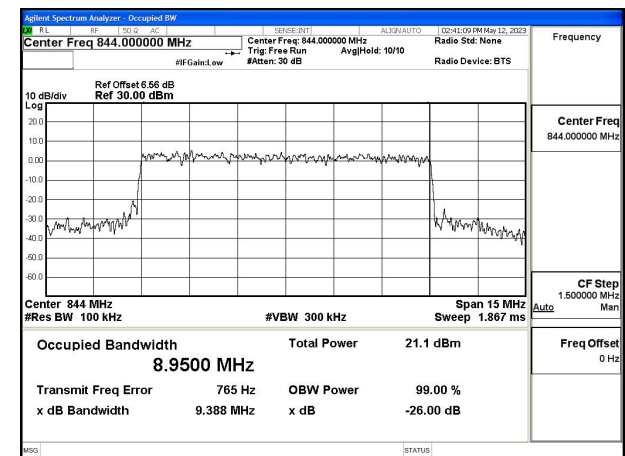


Fig.24

Test Mode: 64QAM

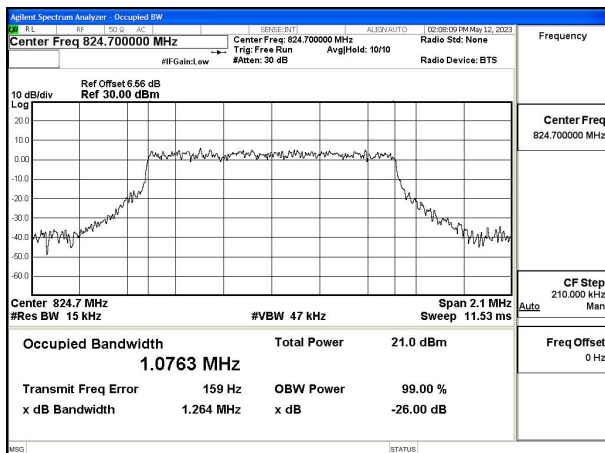


Fig.25

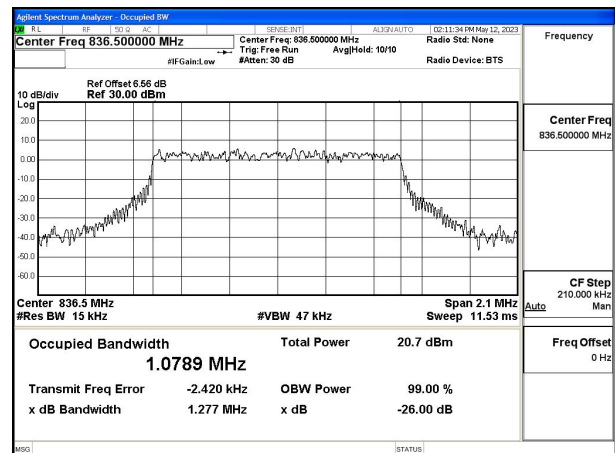


Fig.26

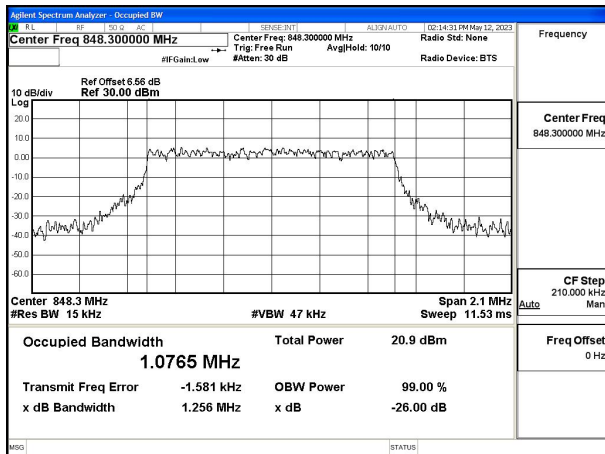


Fig.27

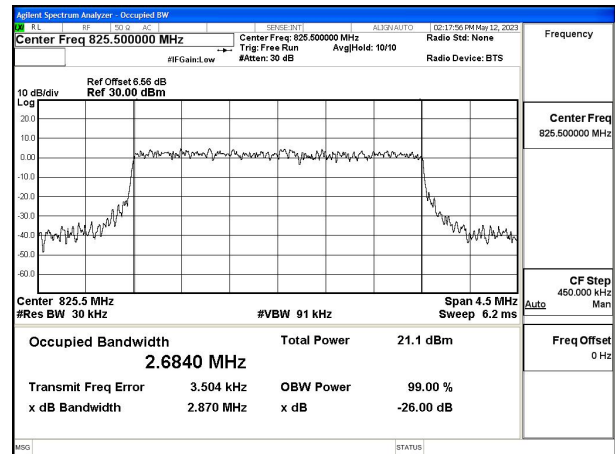


Fig.28

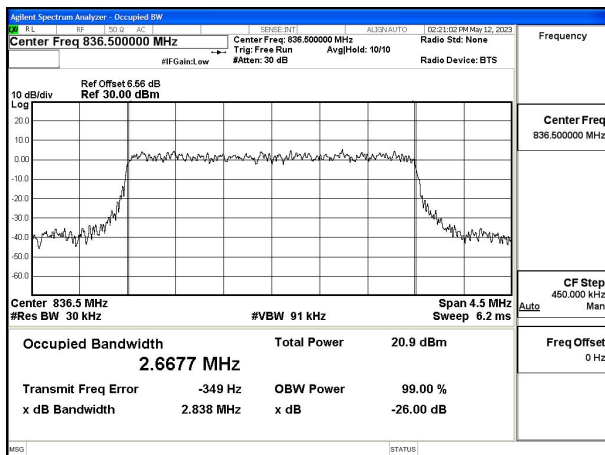


Fig.29

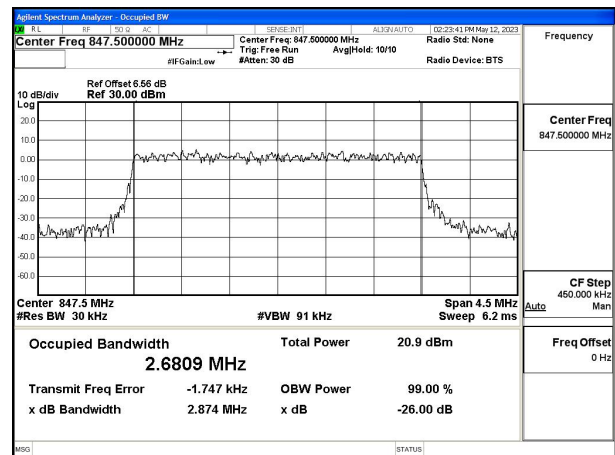


Fig.30

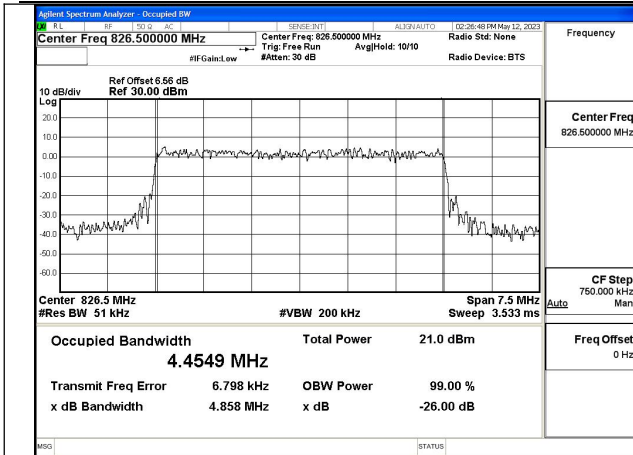


Fig.31

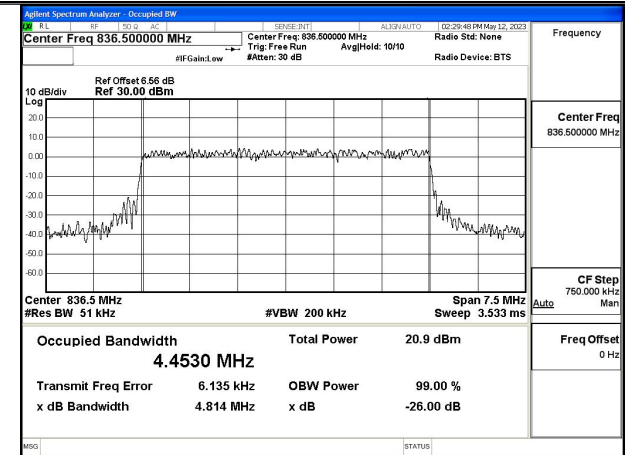


Fig.32

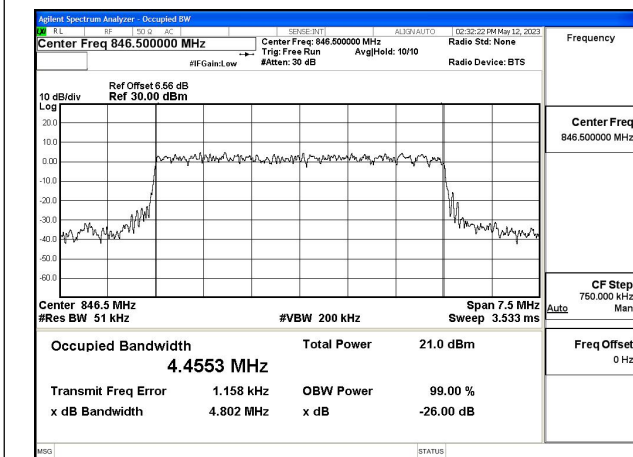


Fig.33

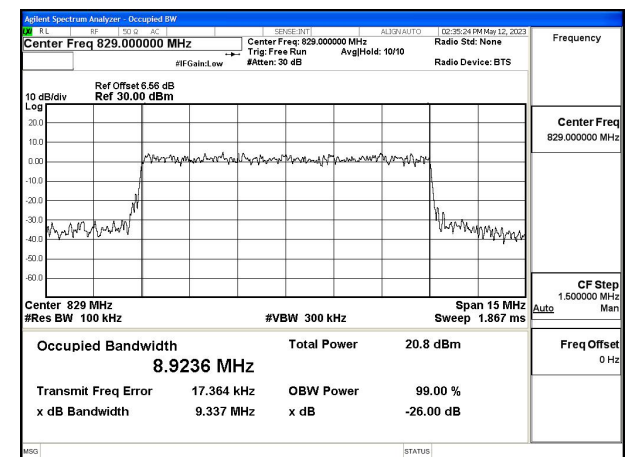


Fig.34

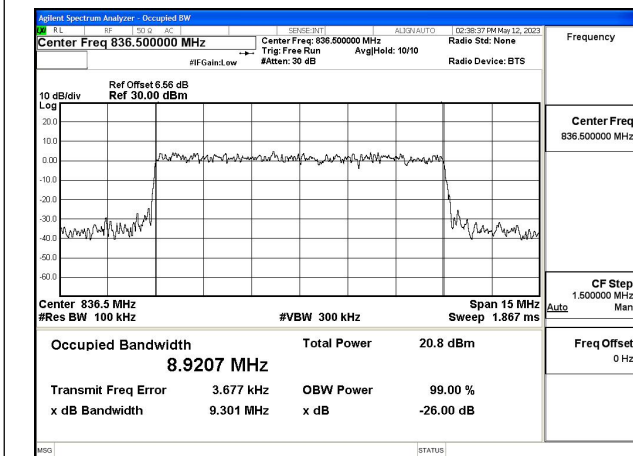


Fig.35

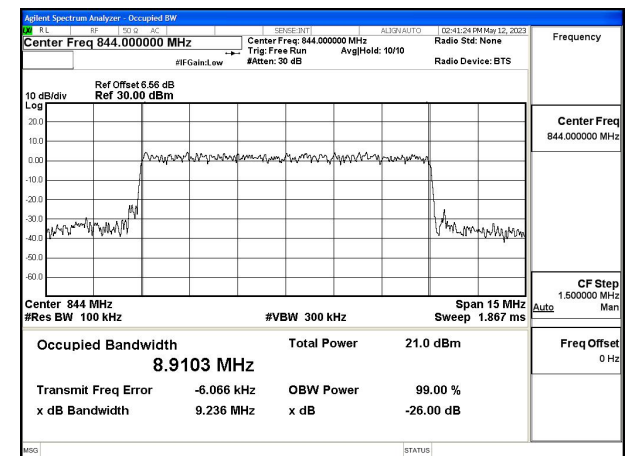


Fig.36

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	1.246	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.231	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.277	Fig.3
5	QPSK	825.5	20415	3	15	0	2.843	Fig.4
5	QPSK	836.5	20525	3	15	0	2.951	Fig.5
5	QPSK	847.5	20635	3	15	0	2.866	Fig.6
5	QPSK	826.5	20425	5	25	0	4.792	Fig.7
5	QPSK	836.5	20525	5	25	0	4.785	Fig.8
5	QPSK	846.5	20625	5	25	0	4.858	Fig.9
5	QPSK	829	20450	10	50	0	9.245	Fig.10
5	QPSK	836.5	20525	10	50	0	9.260	Fig.11
5	QPSK	844	20600	10	50	0	9.399	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	1.273	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.266	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.293	Fig.15
5	16QAM	825.5	20415	3	15	0	2.854	Fig.16
5	16QAM	836.5	20525	3	15	0	2.832	Fig.17
5	16QAM	847.5	20635	3	15	0	2.869	Fig.18
5	16QAM	826.5	20425	5	25	0	4.737	Fig.19
5	16QAM	836.5	20525	5	25	0	4.805	Fig.20
5	16QAM	846.5	20625	5	25	0	4.757	Fig.21
5	16QAM	829	20450	10	50	0	9.227	Fig.22
5	16QAM	836.5	20525	10	50	0	9.372	Fig.23
5	16QAM	844	20600	10	50	0	9.388	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	1.264	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.277	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.256	Fig.27
5	64QAM	825.5	20415	3	15	0	2.870	Fig.28
5	64QAM	836.5	20525	3	15	0	2.838	Fig.29
5	64QAM	847.5	20635	3	15	0	2.874	Fig.30
5	64QAM	826.5	20425	5	25	0	4.858	Fig.31
5	64QAM	836.5	20525	5	25	0	4.814	Fig.32
5	64QAM	846.5	20625	5	25	0	4.802	Fig.33
5	64QAM	829	20450	10	50	0	9.337	Fig.34
5	64QAM	836.5	20525	10	50	0	9.301	Fig.35
5	64QAM	844	20600	10	50	0	9.236	Fig.36

Test Mode: QPSK

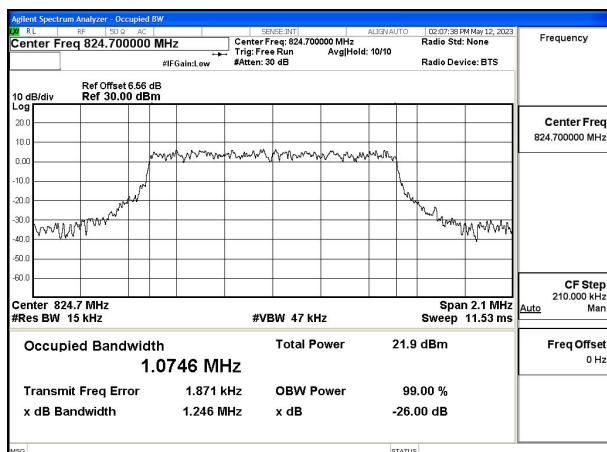


Fig.1

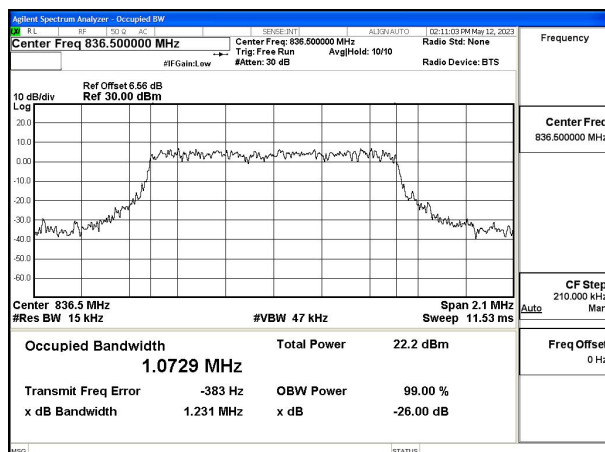


Fig.2

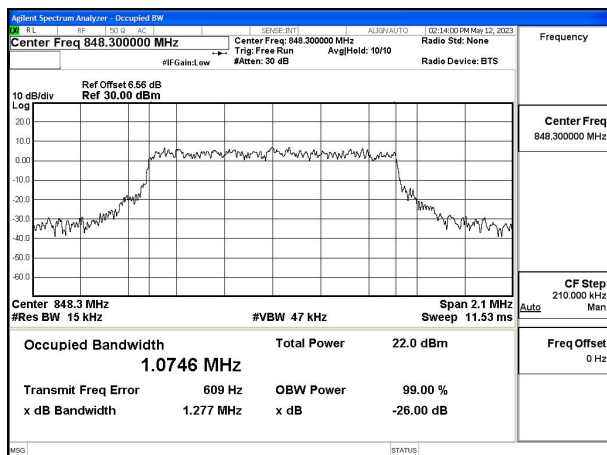


Fig.3

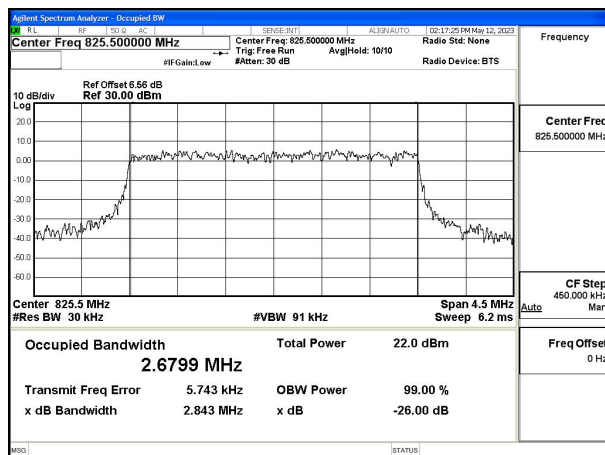


Fig.4

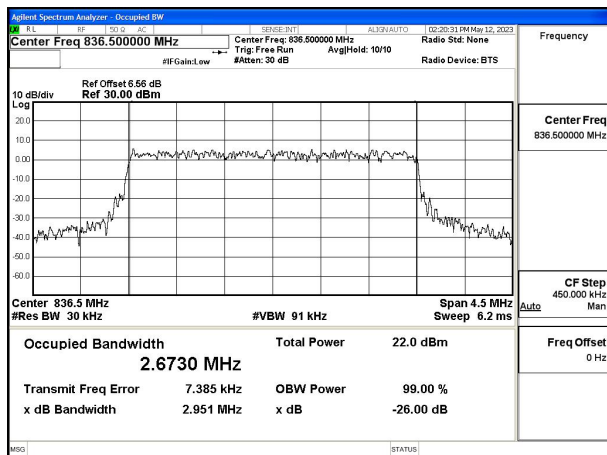


Fig.5

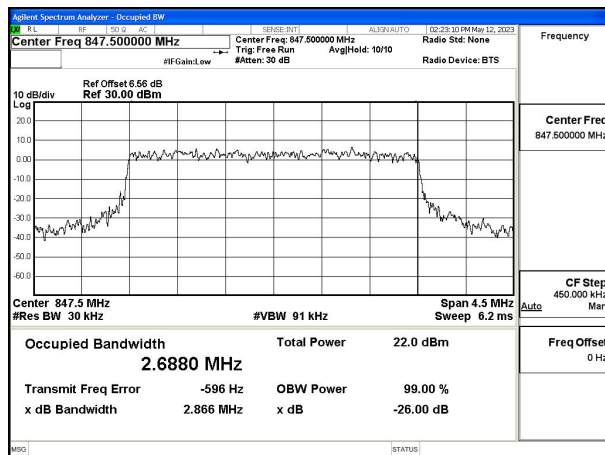


Fig.6