

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 38

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2572.5	37775	5	1	0	22.86
QPSK	2572.5	37775	5	1	12	23.14
QPSK	2572.5	37775	5	1	24	23.00
QPSK	2572.5	37775	5	12	0	22.19
QPSK	2572.5	37775	5	12	7	22.15
QPSK	2572.5	37775	5	12	13	22.21
QPSK	2572.5	37775	5	25	0	22.11
QPSK	2595	38000	5	1	0	23.14
QPSK	2595	38000	5	1	12	23.18
QPSK	2595	38000	5	1	24	22.87
QPSK	2595	38000	5	12	0	22.08
QPSK	2595	38000	5	12	7	21.95
QPSK	2595	38000	5	12	13	21.96
QPSK	2595	38000	5	25	0	21.93
QPSK	2617.5	38225	5	1	0	22.78
QPSK	2617.5	38225	5	1	12	23.12
QPSK	2617.5	38225	5	1	24	22.96
QPSK	2617.5	38225	5	12	0	21.96
QPSK	2617.5	38225	5	12	7	22.00
QPSK	2617.5	38225	5	12	13	22.01
QPSK	2617.5	38225	5	25	0	21.97

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2572.5	37775	5	1	0	22.20
16QAM	2572.5	37775	5	1	12	22.51
16QAM	2572.5	37775	5	1	24	22.64
16QAM	2572.5	37775	5	12	0	21.11
16QAM	2572.5	37775	5	12	7	21.11
16QAM	2572.5	37775	5	12	13	21.07
16QAM	2572.5	37775	5	25	0	21.16
16QAM	2595	38000	5	1	0	22.41
16QAM	2595	38000	5	1	12	22.41
16QAM	2595	38000	5	1	24	22.20
16QAM	2595	38000	5	12	0	20.88
16QAM	2595	38000	5	12	7	21.16
16QAM	2595	38000	5	12	13	20.92
16QAM	2595	38000	5	25	0	20.91
16QAM	2617.5	38225	5	1	0	21.94
16QAM	2617.5	38225	5	1	12	22.61
16QAM	2617.5	38225	5	1	24	22.05

16QAM	2617.5	38225	5	12	0	20.95
16QAM	2617.5	38225	5	12	7	21.07
16QAM	2617.5	38225	5	12	13	20.99
16QAM	2617.5	38225	5	25	0	21.08
64QAM	2572.5	37775	5	1	0	22.06
64QAM	2572.5	37775	5	1	12	22.31
64QAM	2572.5	37775	5	1	24	22.29
64QAM	2572.5	37775	5	12	0	20.98
64QAM	2572.5	37775	5	12	7	21.33
64QAM	2572.5	37775	5	12	13	21.13
64QAM	2572.5	37775	5	25	0	21.08
64QAM	2595	38000	5	1	0	21.76
64QAM	2595	38000	5	1	12	22.05
64QAM	2595	38000	5	1	24	21.77
64QAM	2595	38000	5	12	0	20.91
64QAM	2595	38000	5	12	7	21.04
64QAM	2595	38000	5	12	13	20.98
64QAM	2595	38000	5	25	0	21.04
64QAM	2617.5	38225	5	1	0	22.06
64QAM	2617.5	38225	5	1	12	22.08
64QAM	2617.5	38225	5	1	24	22.09
64QAM	2617.5	38225	5	12	0	20.97
64QAM	2617.5	38225	5	12	7	20.97
64QAM	2617.5	38225	5	12	13	20.95
64QAM	2617.5	38225	5	25	0	21.02

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2575	37800	10	1	0	23.11
QPSK	2575	37800	10	1	25	23.24
QPSK	2575	37800	10	1	49	23.00
QPSK	2575	37800	10	25	0	22.18
QPSK	2575	37800	10	25	12	22.17
QPSK	2575	37800	10	25	25	22.15
QPSK	2575	37800	10	50	0	22.08
QPSK	2595	38000	10	1	0	23.19
QPSK	2595	38000	10	1	25	22.95
QPSK	2595	38000	10	1	49	23.03
QPSK	2595	38000	10	25	0	22.00
QPSK	2595	38000	10	25	12	21.93
QPSK	2595	38000	10	25	25	22.01
QPSK	2595	38000	10	50	0	21.96
QPSK	2615	38200	10	1	0	22.90
QPSK	2615	38200	10	1	25	22.82
QPSK	2615	38200	10	1	49	23.02
QPSK	2615	38200	10	25	0	21.84

QPSK	2615	38200	10	25	12	21.86
QPSK	2615	38200	10	25	25	22.01
QPSK	2615	38200	10	50	0	21.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2575	37800	10	1	0	22.36
16QAM	2575	37800	10	1	25	22.25
16QAM	2575	37800	10	1	49	22.71
16QAM	2575	37800	10	25	0	21.15
16QAM	2575	37800	10	25	12	21.20
16QAM	2575	37800	10	25	25	21.11
16QAM	2575	37800	10	50	0	21.01
16QAM	2595	38000	10	1	0	22.28
16QAM	2595	38000	10	1	25	22.57
16QAM	2595	38000	10	1	49	22.06
16QAM	2595	38000	10	25	0	21.11
16QAM	2595	38000	10	25	12	20.98
16QAM	2595	38000	10	25	25	20.99
16QAM	2595	38000	10	50	0	21.06
16QAM	2615	38200	10	1	0	22.13
16QAM	2615	38200	10	1	25	22.30
16QAM	2615	38200	10	1	49	22.28
16QAM	2615	38200	10	25	0	20.82
16QAM	2615	38200	10	25	12	20.80
16QAM	2615	38200	10	25	25	20.93
16QAM	2615	38200	10	50	0	20.93
64QAM	2575	37800	10	1	0	22.03
64QAM	2575	37800	10	1	25	22.41
64QAM	2575	37800	10	1	49	21.92
64QAM	2575	37800	10	25	0	21.16
64QAM	2575	37800	10	25	12	21.18
64QAM	2575	37800	10	25	25	21.15
64QAM	2575	37800	10	50	0	21.22
64QAM	2595	38000	10	1	0	21.64
64QAM	2595	38000	10	1	25	22.25
64QAM	2595	38000	10	1	49	21.54
64QAM	2595	38000	10	25	0	20.99
64QAM	2595	38000	10	25	12	21.07
64QAM	2595	38000	10	25	25	21.05
64QAM	2595	38000	10	50	0	21.01
64QAM	2615	38200	10	1	0	21.92
64QAM	2615	38200	10	1	25	22.08
64QAM	2615	38200	10	1	49	21.71
64QAM	2615	38200	10	25	0	20.85
64QAM	2615	38200	10	25	12	20.83

64QAM	2615	38200	10	25	25	20.93
64QAM	2615	38200	10	50	0	20.93

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2577.5	37825	15	1	0	22.92
QPSK	2577.5	37825	15	1	37	23.20
QPSK	2577.5	37825	15	1	74	22.89
QPSK	2577.5	37825	15	36	0	22.02
QPSK	2577.5	37825	15	36	29	21.96
QPSK	2577.5	37825	15	36	30	21.96
QPSK	2577.5	37825	15	75	0	21.97
QPSK	2595	38000	15	1	0	23.24
QPSK	2595	38000	15	1	37	22.79
QPSK	2595	38000	15	1	74	23.02
QPSK	2595	38000	15	36	0	21.87
QPSK	2595	38000	15	36	29	21.85
QPSK	2595	38000	15	36	30	21.76
QPSK	2595	38000	15	75	0	21.84
QPSK	2612.5	38175	15	1	0	22.66
QPSK	2612.5	38175	15	1	37	22.79
QPSK	2612.5	38175	15	1	74	23.14
QPSK	2612.5	38175	15	36	0	21.65
QPSK	2612.5	38175	15	36	29	21.77
QPSK	2612.5	38175	15	36	30	21.79
QPSK	2612.5	38175	15	75	0	21.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2577.5	37825	15	1	0	21.92
16QAM	2577.5	37825	15	1	37	22.28
16QAM	2577.5	37825	15	1	74	22.18
16QAM	2577.5	37825	15	36	0	21.02
16QAM	2577.5	37825	15	36	29	21.06
16QAM	2577.5	37825	15	36	30	20.91
16QAM	2577.5	37825	15	75	0	20.96
16QAM	2595	38000	15	1	0	22.47
16QAM	2595	38000	15	1	37	21.95
16QAM	2595	38000	15	1	74	22.07
16QAM	2595	38000	15	36	0	20.92
16QAM	2595	38000	15	36	29	20.87
16QAM	2595	38000	15	36	30	20.85
16QAM	2595	38000	15	75	0	20.88
16QAM	2612.5	38175	15	1	0	21.88
16QAM	2612.5	38175	15	1	37	21.94
16QAM	2612.5	38175	15	1	74	22.37
16QAM	2612.5	38175	15	36	0	20.75
16QAM	2612.5	38175	15	36	29	20.77

16QAM	2612.5	38175	15	36	30	20.78
16QAM	2612.5	38175	15	75	0	20.65
64QAM	2577.5	37825	15	1	0	22.02
64QAM	2577.5	37825	15	1	37	21.91
64QAM	2577.5	37825	15	1	74	22.38
64QAM	2577.5	37825	15	36	0	20.96
64QAM	2577.5	37825	15	36	29	21.03
64QAM	2577.5	37825	15	36	30	21.02
64QAM	2577.5	37825	15	75	0	20.99
64QAM	2595	38000	15	1	0	22.09
64QAM	2595	38000	15	1	37	22.05
64QAM	2595	38000	15	1	74	21.93
64QAM	2595	38000	15	36	0	20.81
64QAM	2595	38000	15	36	29	20.90
64QAM	2595	38000	15	36	30	20.85
64QAM	2595	38000	15	75	0	20.92
64QAM	2612.5	38175	15	1	0	21.84
64QAM	2612.5	38175	15	1	37	22.06
64QAM	2612.5	38175	15	1	74	21.86
64QAM	2612.5	38175	15	36	0	20.79
64QAM	2612.5	38175	15	36	29	20.78
64QAM	2612.5	38175	15	36	30	20.76
64QAM	2612.5	38175	15	75	0	20.78

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	23.03
QPSK	2580	37850	20	1	49	23.41
QPSK	2580	37850	20	1	99	22.93
QPSK	2580	37850	20	50	0	22.01
QPSK	2580	37850	20	50	24	21.97
QPSK	2580	37850	20	50	50	21.96
QPSK	2580	37850	20	100	0	22.05
QPSK	2595	38000	20	1	0	23.30
QPSK	2595	38000	20	1	49	23.16
QPSK	2595	38000	20	1	99	23.09
QPSK	2595	38000	20	50	0	21.99
QPSK	2595	38000	20	50	24	21.84
QPSK	2595	38000	20	50	50	21.80
QPSK	2595	38000	20	100	0	21.83
QPSK	2610	38150	20	1	0	22.97
QPSK	2610	38150	20	1	49	22.65
QPSK	2610	38150	20	1	99	22.97
QPSK	2610	38150	20	50	0	21.71
QPSK	2610	38150	20	50	24	21.67
QPSK	2610	38150	20	50	50	21.76

QPSK	2610	38150	20	100	0	21.68
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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2580	37850	20	1	0	22.55
16QAM	2580	37850	20	1	49	22.20
16QAM	2580	37850	20	1	99	22.02
16QAM	2580	37850	20	50	0	21.02
16QAM	2580	37850	20	50	24	21.04
16QAM	2580	37850	20	50	50	20.91
16QAM	2580	37850	20	100	0	21.04
16QAM	2595	38000	20	1	0	22.31
16QAM	2595	38000	20	1	49	22.30
16QAM	2595	38000	20	1	99	21.97
16QAM	2595	38000	20	50	0	20.91
16QAM	2595	38000	20	50	24	20.84
16QAM	2595	38000	20	50	50	20.83
16QAM	2595	38000	20	100	0	20.85
16QAM	2610	38150	20	1	0	21.91
16QAM	2610	38150	20	1	49	22.43
16QAM	2610	38150	20	1	99	21.80
16QAM	2610	38150	20	50	0	20.73
16QAM	2610	38150	20	50	24	20.70
16QAM	2610	38150	20	50	50	20.76
16QAM	2610	38150	20	100	0	20.66
64QAM	2580	37850	20	1	0	22.30
64QAM	2580	37850	20	1	49	22.03
64QAM	2580	37850	20	1	99	22.08
64QAM	2580	37850	20	50	0	21.04
64QAM	2580	37850	20	50	24	21.06
64QAM	2580	37850	20	50	50	20.96
64QAM	2580	37850	20	100	0	21.00
64QAM	2595	38000	20	1	0	21.94
64QAM	2595	38000	20	1	49	22.00
64QAM	2595	38000	20	1	99	21.67
64QAM	2595	38000	20	50	0	20.89
64QAM	2595	38000	20	50	24	20.85
64QAM	2595	38000	20	50	50	20.80
64QAM	2595	38000	20	100	0	20.85
64QAM	2610	38150	20	1	0	22.05
64QAM	2610	38150	20	1	49	21.99
64QAM	2610	38150	20	1	99	22.07
64QAM	2610	38150	20	50	0	20.73
64QAM	2610	38150	20	50	24	20.64
64QAM	2610	38150	20	50	50	20.73
64QAM	2610	38150	20	100	0	20.68

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	QPSK	2572.5	37775	5	25	0	4.445	Fig.1
38	QPSK	2595	38000	5	25	0	4.469	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.452	Fig.3
38	QPSK	2575	37800	10	50	0	8.921	Fig.4
38	QPSK	2595	38000	10	50	0	8.885	Fig.5
38	QPSK	2615	38200	10	50	0	8.913	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.411	Fig.7
38	QPSK	2595	38000	15	75	0	13.436	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.434	Fig.9
38	QPSK	2580	37850	20	100	0	17.858	Fig.10
38	QPSK	2595	38000	20	100	0	17.774	Fig.11
38	QPSK	2610	38150	20	100	0	17.986	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	16QAM	2572.5	37775	5	25	0	4.444	Fig.13
38	16QAM	2595	38000	5	25	0	4.456	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.441	Fig.15
38	16QAM	2575	37800	10	50	0	8.871	Fig.16
38	16QAM	2595	38000	10	50	0	8.829	Fig.17
38	16QAM	2615	38200	10	50	0	8.900	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.449	Fig.19
38	16QAM	2595	38000	15	75	0	13.412	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.460	Fig.21
38	16QAM	2580	37850	20	100	0	17.803	Fig.22
38	16QAM	2595	38000	20	100	0	17.799	Fig.23
38	16QAM	2610	38150	20	100	0	17.751	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
38	64QAM	2572.5	37775	5	25	0	4.462	Fig.25
38	64QAM	2595	38000	5	25	0	4.448	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.479	Fig.27
38	64QAM	2575	37800	10	50	0	8.894	Fig.28
38	64QAM	2595	38000	10	50	0	8.952	Fig.29
38	64QAM	2615	38200	10	50	0	8.929	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.414	Fig.31
38	64QAM	2595	38000	15	75	0	13.347	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.402	Fig.33
38	64QAM	2580	37850	20	100	0	17.815	Fig.34
38	64QAM	2595	38000	20	100	0	17.760	Fig.35
38	64QAM	2610	38150	20	100	0	17.870	Fig.36

Test Mode: QPSK

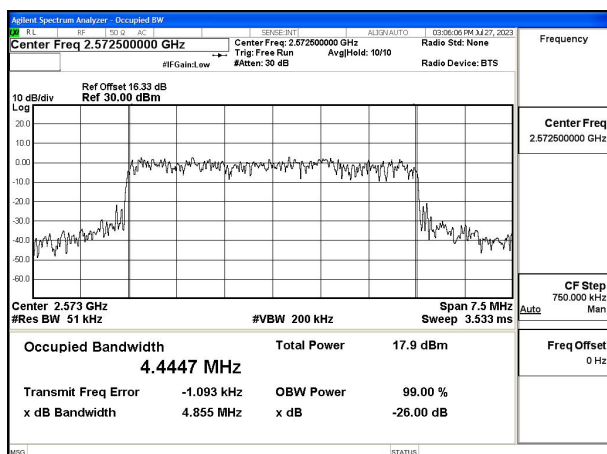


Fig.1

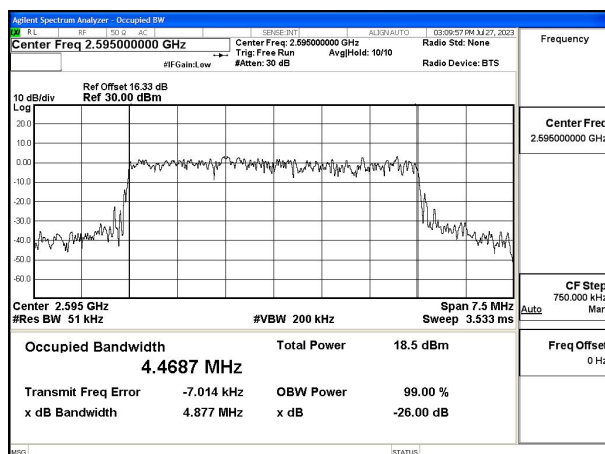


Fig.2

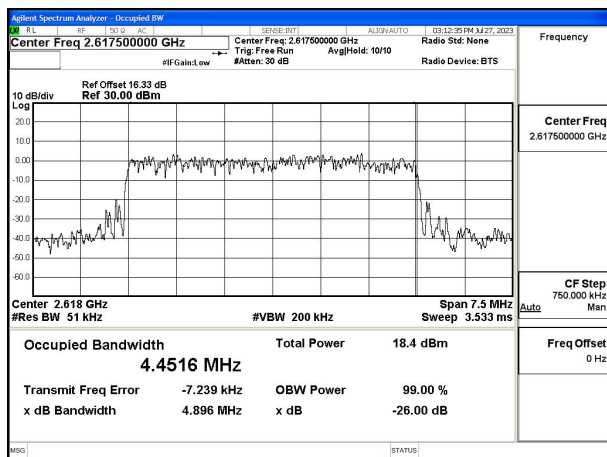


Fig.3

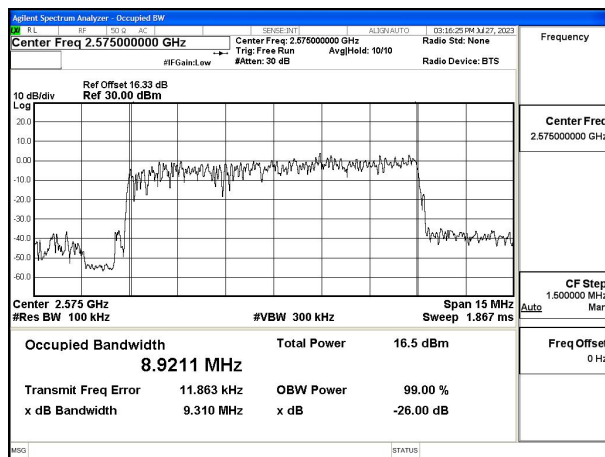


Fig.4

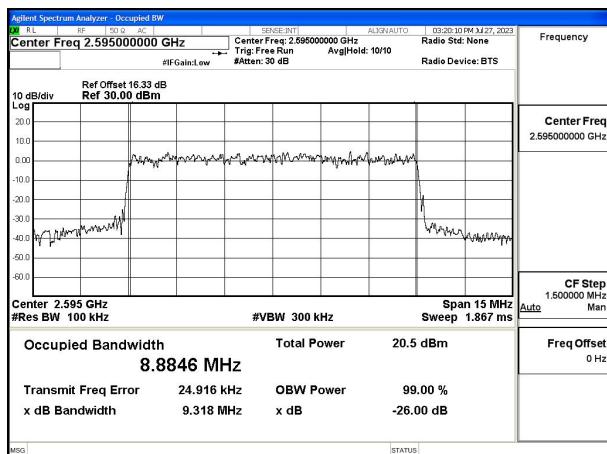


Fig.5

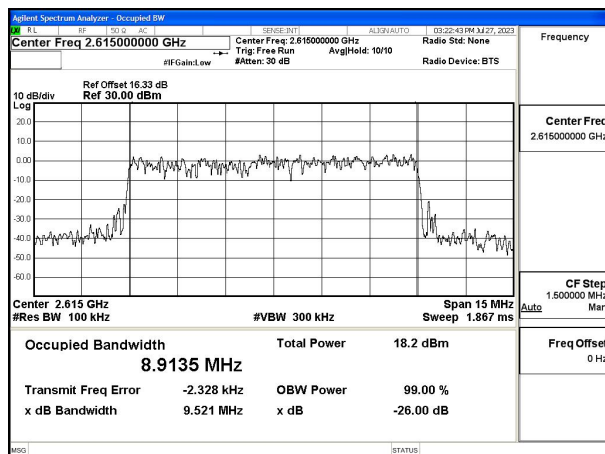


Fig.6

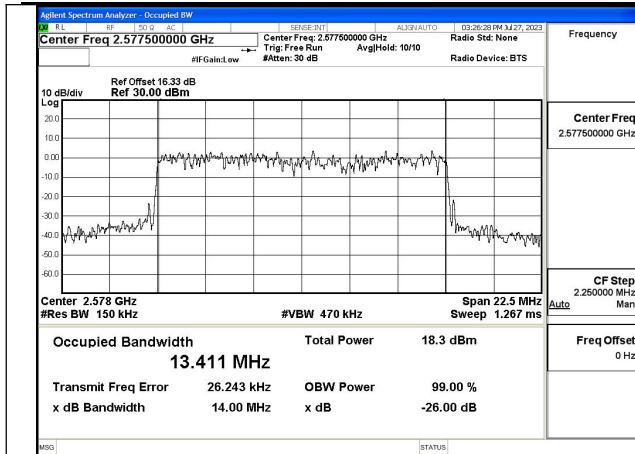


Fig.7

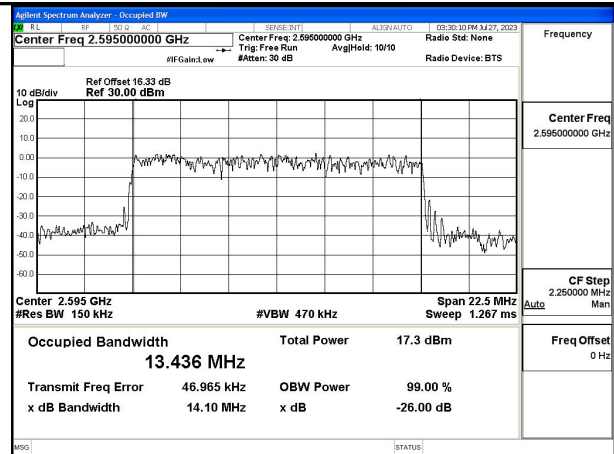


Fig.8

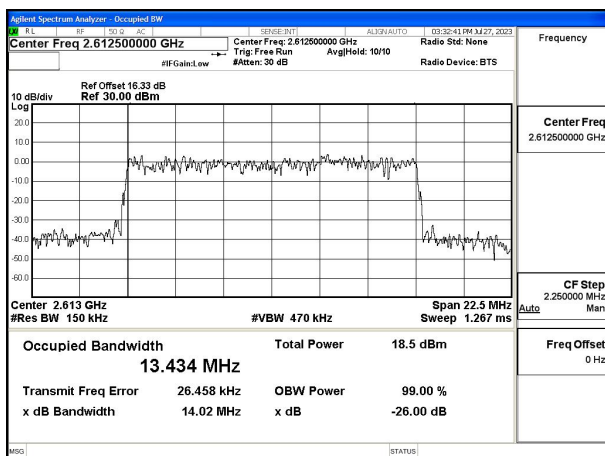


Fig.9

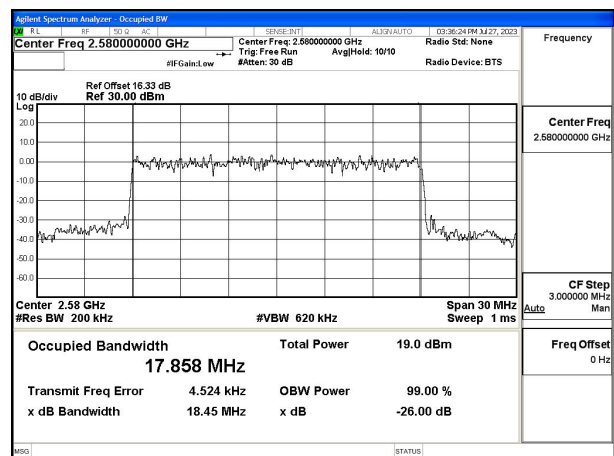


Fig.10

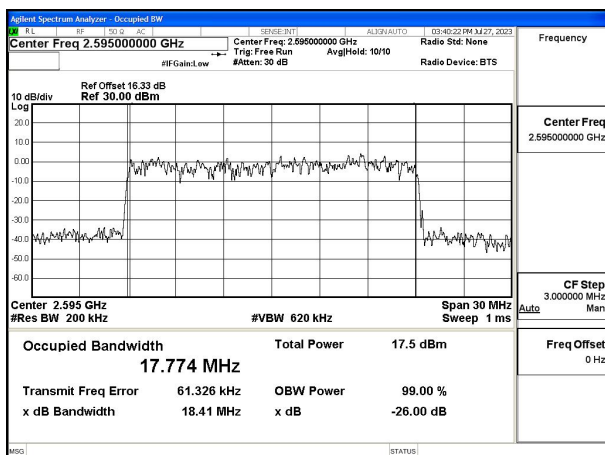


Fig.11

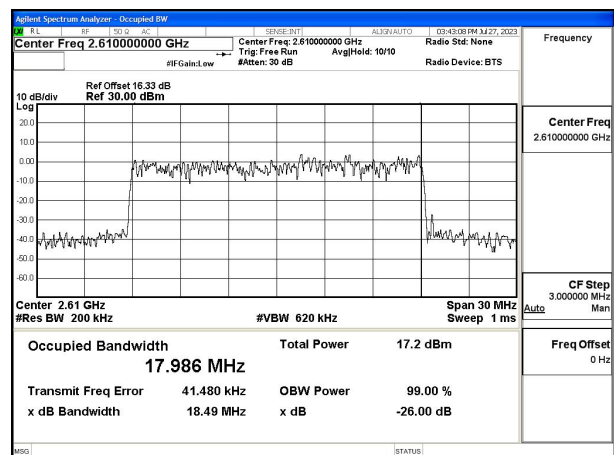


Fig.12

Test Mode: 16QAM

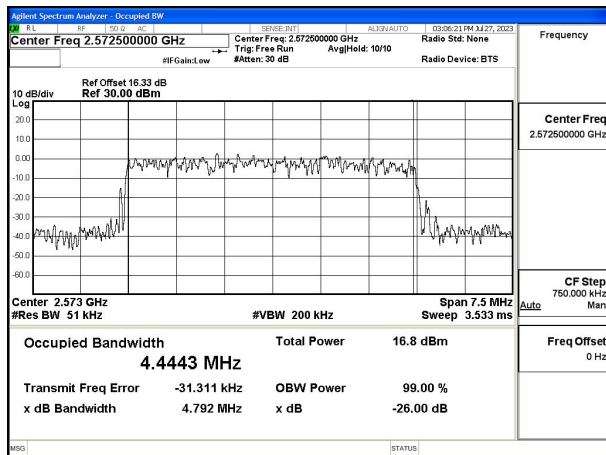


Fig.13

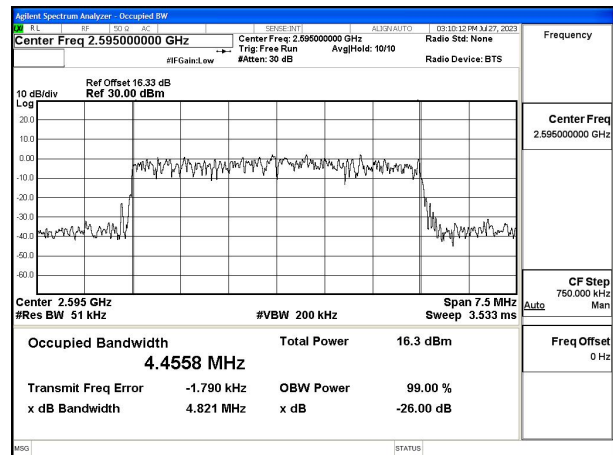


Fig.14

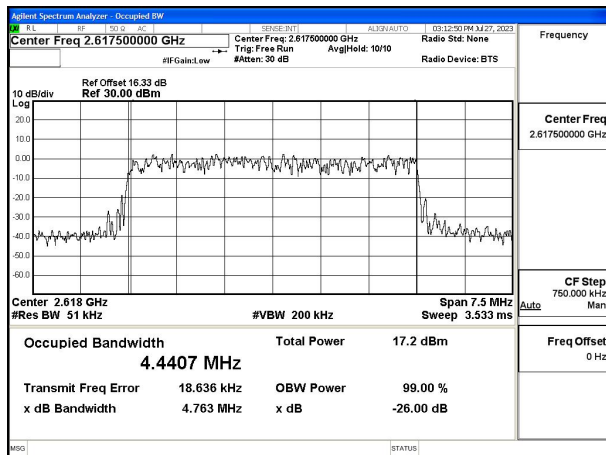


Fig.15

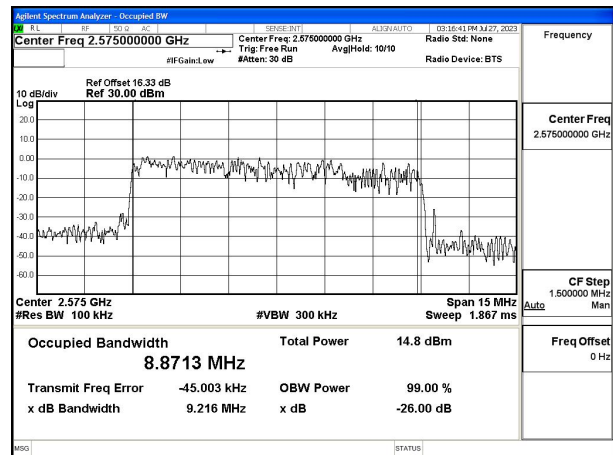


Fig.16

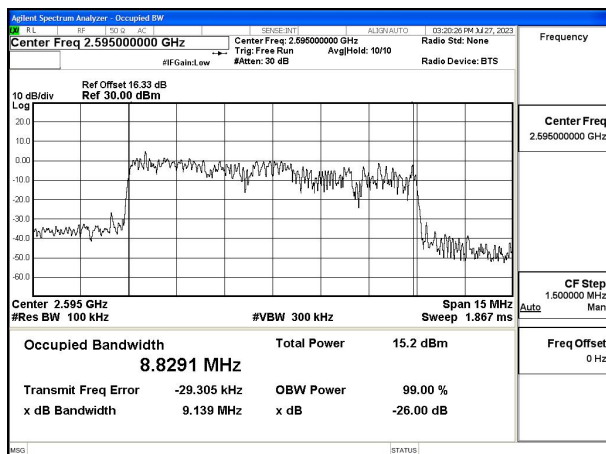


Fig.17

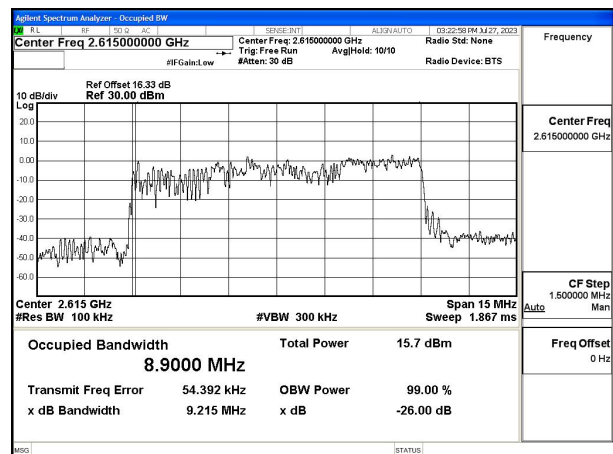


Fig.18

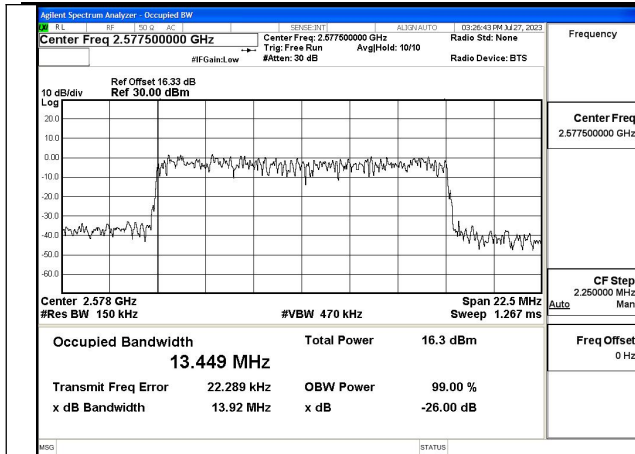


Fig.19

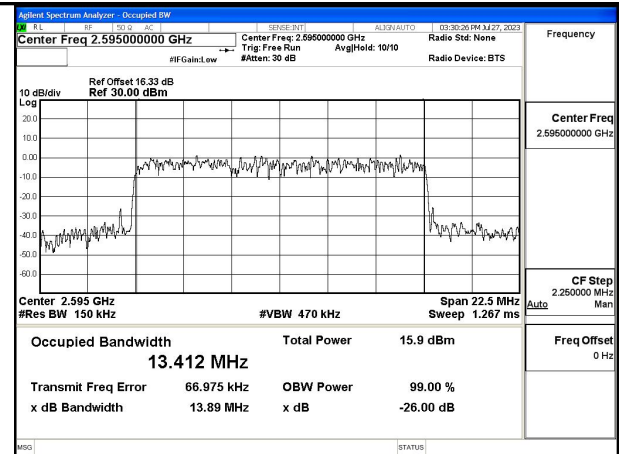


Fig.20

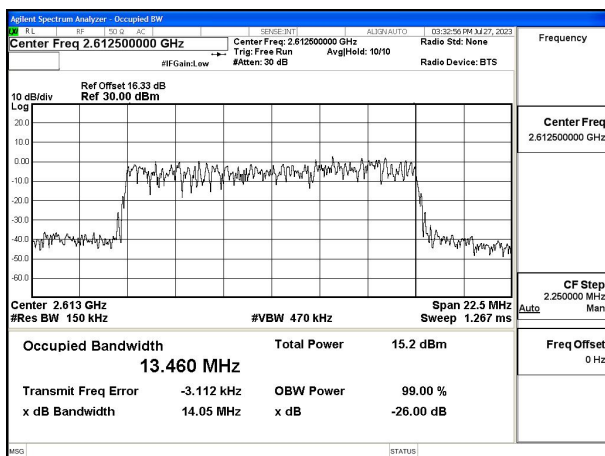


Fig.21

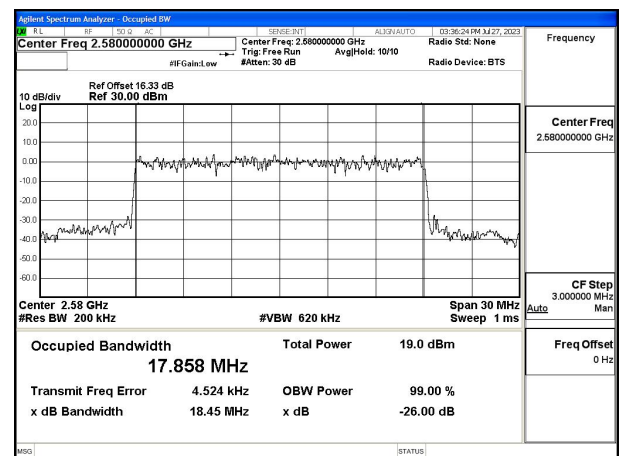


Fig.22

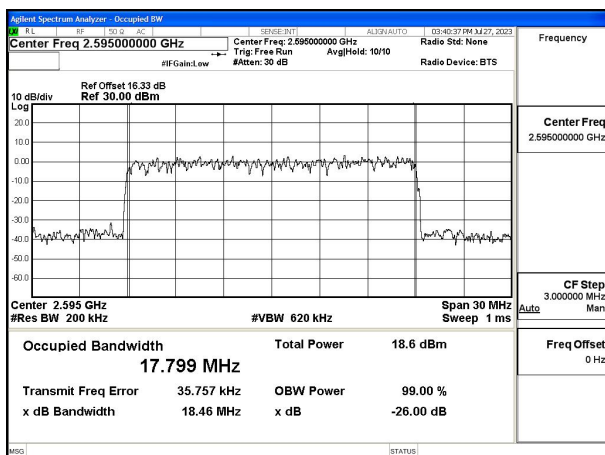


Fig.23

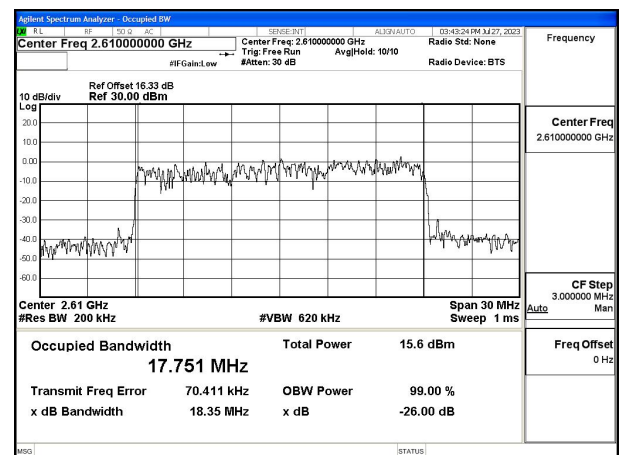


Fig.24

Test Mode: 64QAM

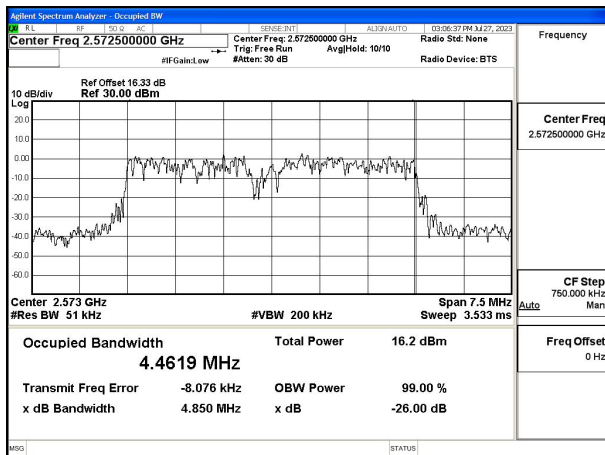


Fig.25

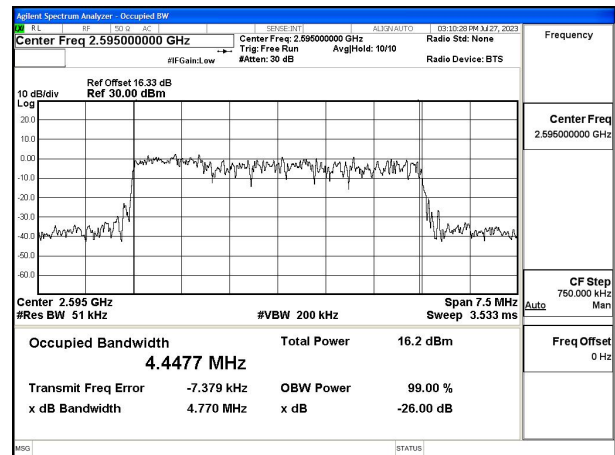


Fig.26

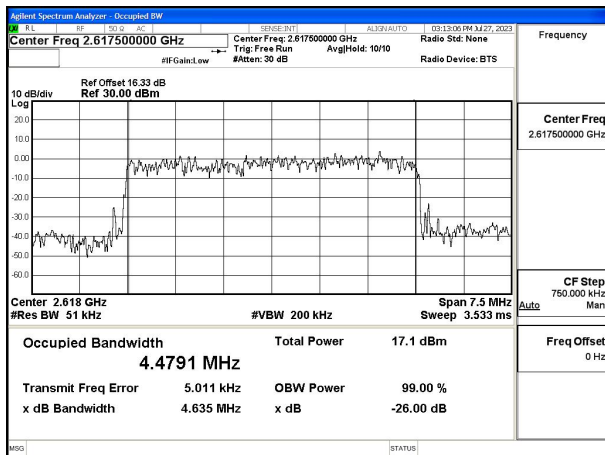


Fig.27

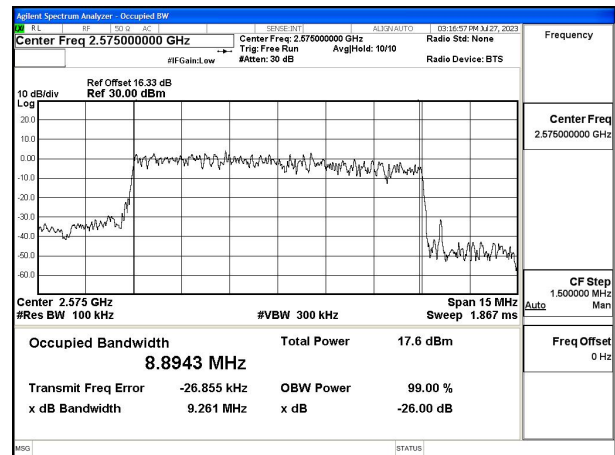


Fig.28

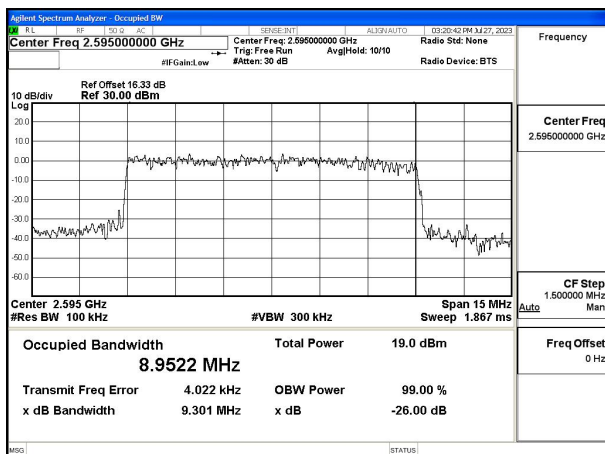


Fig.29

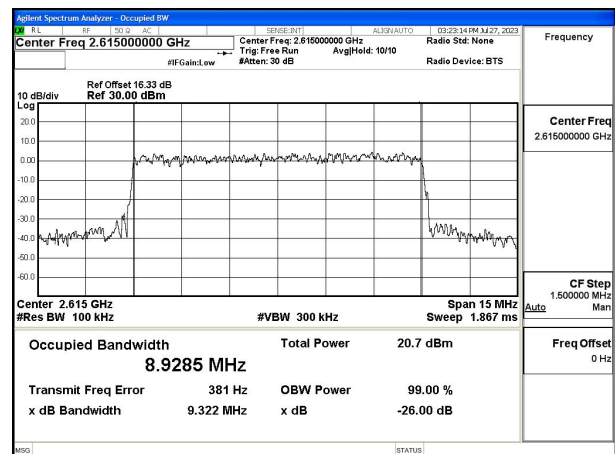


Fig.30

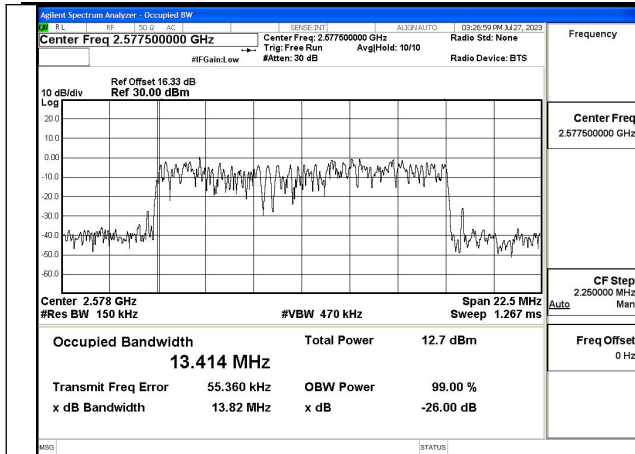


Fig.31

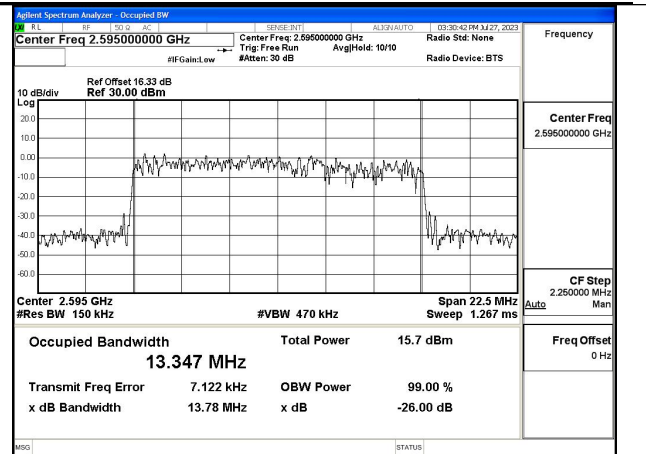


Fig.32

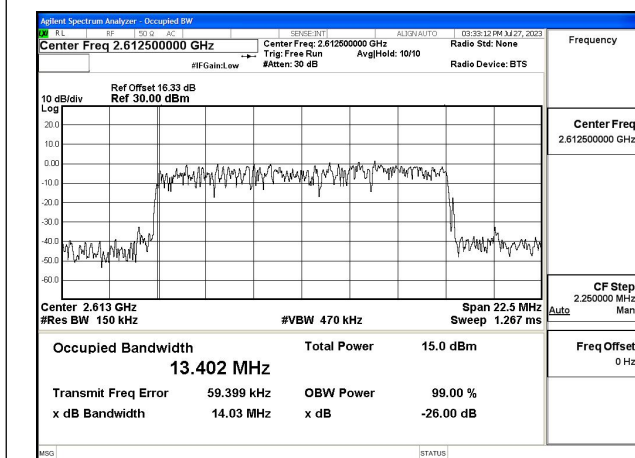


Fig.33

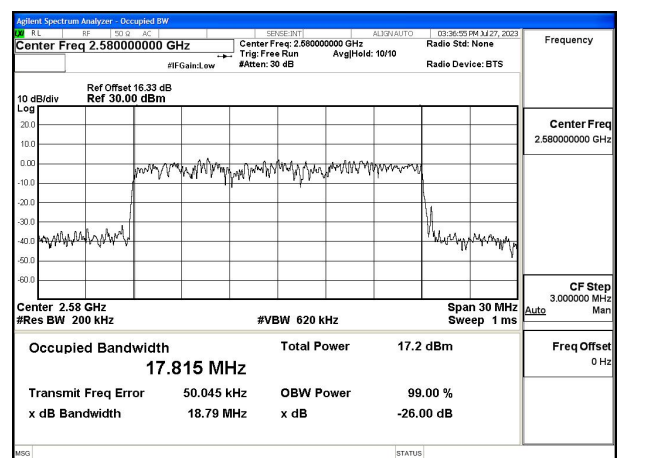


Fig.34

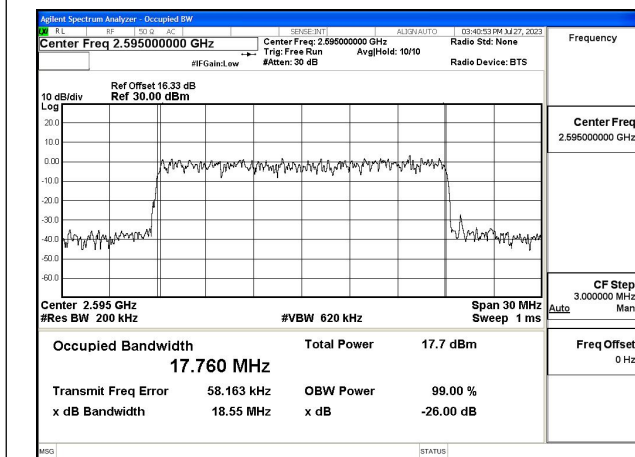


Fig.35

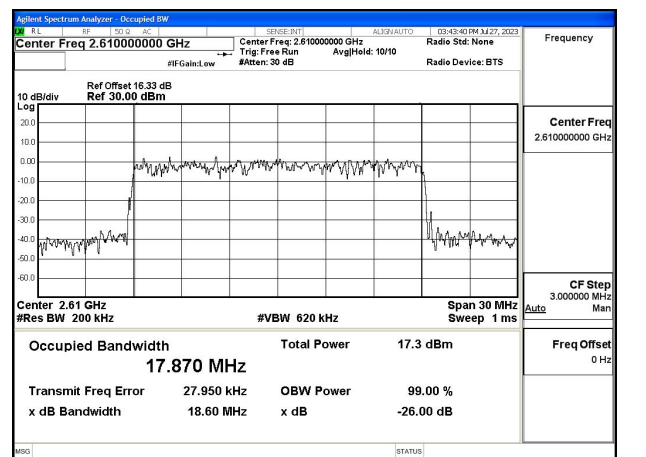


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	QPSK	2572.5	37775	5	25	0	4.855	Fig.1
38	QPSK	2595	38000	5	25	0	4.877	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.896	Fig.3
38	QPSK	2575	37800	10	50	0	9.310	Fig.4
38	QPSK	2595	38000	10	50	0	9.318	Fig.5
38	QPSK	2615	38200	10	50	0	9.521	Fig.6
38	QPSK	2577.5	37825	15	75	0	14.001	Fig.7
38	QPSK	2595	38000	15	75	0	14.099	Fig.8
38	QPSK	2612.5	38175	15	75	0	14.018	Fig.9
38	QPSK	2580	37850	20	100	0	18.446	Fig.10
38	QPSK	2595	38000	20	100	0	18.415	Fig.11
38	QPSK	2610	38150	20	100	0	18.491	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	16QAM	2572.5	37775	5	25	0	4.792	Fig.13
38	16QAM	2595	38000	5	25	0	4.821	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.763	Fig.15
38	16QAM	2575	37800	10	50	0	9.216	Fig.16
38	16QAM	2595	38000	10	50	0	9.139	Fig.17
38	16QAM	2615	38200	10	50	0	9.215	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.919	Fig.19
38	16QAM	2595	38000	15	75	0	13.887	Fig.20
38	16QAM	2612.5	38175	15	75	0	14.053	Fig.21
38	16QAM	2580	37850	20	100	0	18.862	Fig.22
38	16QAM	2595	38000	20	100	0	18.462	Fig.23
38	16QAM	2610	38150	20	100	0	18.352	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
38	64QAM	2572.5	37775	5	25	0	4.850	Fig.25
38	64QAM	2595	38000	5	25	0	4.770	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.635	Fig.27
38	64QAM	2575	37800	10	50	0	9.261	Fig.28
38	64QAM	2595	38000	10	50	0	9.301	Fig.29
38	64QAM	2615	38200	10	50	0	9.322	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.821	Fig.31
38	64QAM	2595	38000	15	75	0	13.783	Fig.32
38	64QAM	2612.5	38175	15	75	0	14.033	Fig.33
38	64QAM	2580	37850	20	100	0	18.788	Fig.34
38	64QAM	2595	38000	20	100	0	18.554	Fig.35
38	64QAM	2610	38150	20	100	0	18.605	Fig.36

Test Mode: QPSK

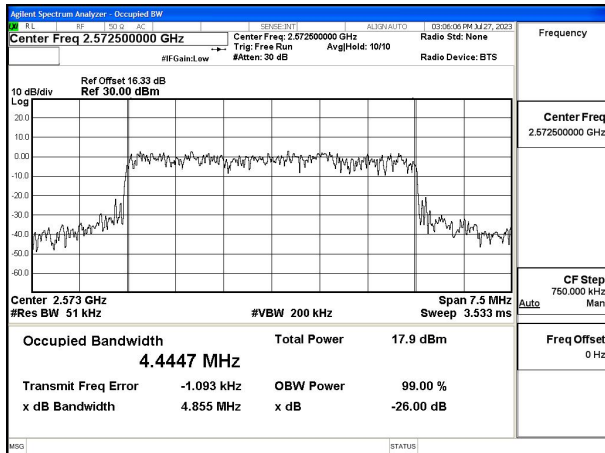


Fig.1

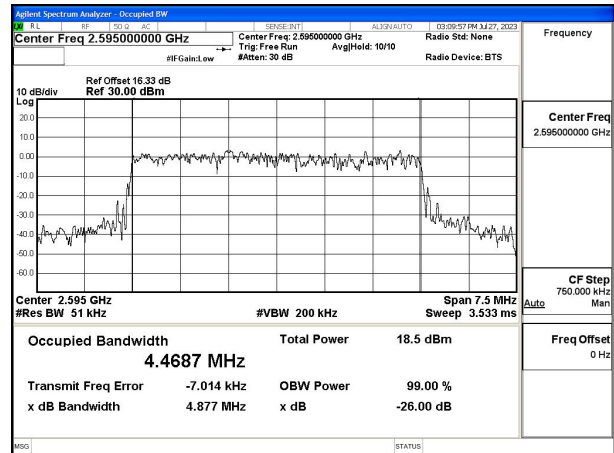


Fig.2

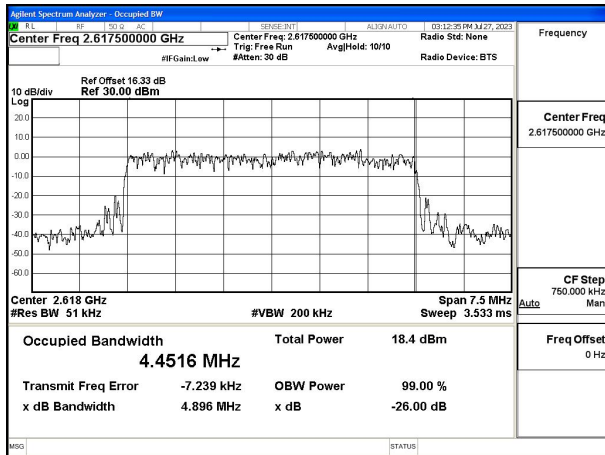


Fig.3

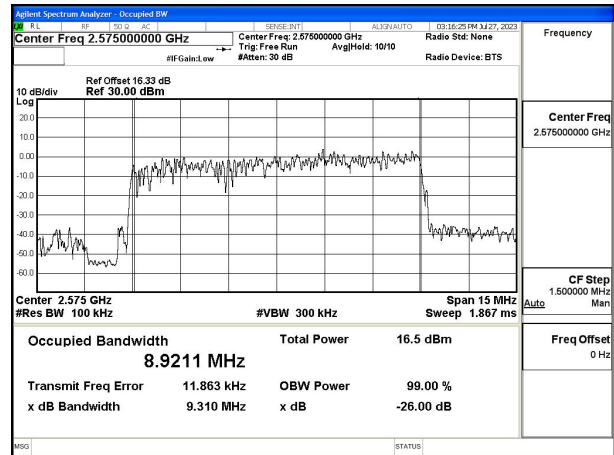


Fig.4

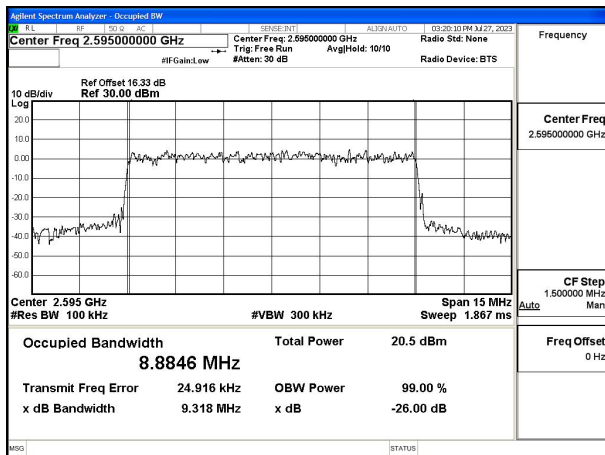


Fig.5

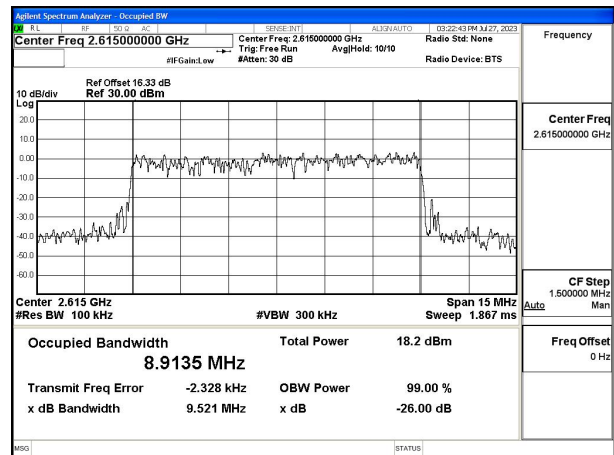


Fig.6