

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	22.77
QPSK	2572.5	37775	5	1	12	22.84
QPSK	2572.5	37775	5	1	24	22.62
QPSK	2572.5	37775	5	12	0	21.85
QPSK	2572.5	37775	5	12	7	21.93
QPSK	2572.5	37775	5	12	13	21.86
QPSK	2572.5	37775	5	25	0	21.91
QPSK	2595	38000	5	1	0	22.75
QPSK	2595	38000	5	1	12	22.71
QPSK	2595	38000	5	1	24	22.94
QPSK	2595	38000	5	12	0	21.70
QPSK	2595	38000	5	12	7	21.78
QPSK	2595	38000	5	12	13	21.68
QPSK	2595	38000	5	25	0	21.64
QPSK	2617.5	38225	5	1	0	22.34
QPSK	2617.5	38225	5	1	12	22.44
QPSK	2617.5	38225	5	1	24	22.45
QPSK	2617.5	38225	5	12	0	21.55
QPSK	2617.5	38225	5	12	7	21.61
QPSK	2617.5	38225	5	12	13	21.52
QPSK	2617.5	38225	5	25	0	21.49

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2572.5	37775	5	1	0	21.99
16QAM	2572.5	37775	5	1	12	22.21
16QAM	2572.5	37775	5	1	24	22.11
16QAM	2572.5	37775	5	12	0	20.85
16QAM	2572.5	37775	5	12	7	20.93
16QAM	2572.5	37775	5	12	13	20.92
16QAM	2572.5	37775	5	25	0	20.77
16QAM	2595	38000	5	1	0	22.36
16QAM	2595	38000	5	1	12	22.55
16QAM	2595	38000	5	1	24	22.15
16QAM	2595	38000	5	12	0	20.80
16QAM	2595	38000	5	12	7	20.93
16QAM	2595	38000	5	12	13	20.78
16QAM	2595	38000	5	25	0	20.65
16QAM	2617.5	38225	5	1	0	21.90
16QAM	2617.5	38225	5	1	12	21.62
16QAM	2617.5	38225	5	1	24	21.78

16QAM	2617.5	38225	5	12	0	20.61
16QAM	2617.5	38225	5	12	7	20.57
16QAM	2617.5	38225	5	12	13	20.63
16QAM	2617.5	38225	5	25	0	20.56
64QAM	2572.5	37775	5	1	0	22.14
64QAM	2572.5	37775	5	1	12	22.05
64QAM	2572.5	37775	5	1	24	22.03
64QAM	2572.5	37775	5	12	0	20.86
64QAM	2572.5	37775	5	12	7	20.86
64QAM	2572.5	37775	5	12	13	20.88
64QAM	2572.5	37775	5	25	0	20.76
64QAM	2595	38000	5	1	0	22.10
64QAM	2595	38000	5	1	12	22.04
64QAM	2595	38000	5	1	24	21.84
64QAM	2595	38000	5	12	0	20.68
64QAM	2595	38000	5	12	7	20.78
64QAM	2595	38000	5	12	13	20.76
64QAM	2595	38000	5	25	0	20.67
64QAM	2617.5	38225	5	1	0	21.75
64QAM	2617.5	38225	5	1	12	21.69
64QAM	2617.5	38225	5	1	24	21.43
64QAM	2617.5	38225	5	12	0	20.52
64QAM	2617.5	38225	5	12	7	20.57
64QAM	2617.5	38225	5	12	13	20.48
64QAM	2617.5	38225	5	25	0	20.55

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2575	37800	10	1	0	22.86
QPSK	2575	37800	10	1	25	22.78
QPSK	2575	37800	10	1	49	22.86
QPSK	2575	37800	10	25	0	21.69
QPSK	2575	37800	10	25	12	21.93
QPSK	2575	37800	10	25	25	21.93
QPSK	2575	37800	10	50	0	21.87
QPSK	2595	38000	10	1	0	22.87
QPSK	2595	38000	10	1	25	22.85
QPSK	2595	38000	10	1	49	22.63
QPSK	2595	38000	10	25	0	21.72
QPSK	2595	38000	10	25	12	21.70
QPSK	2595	38000	10	25	25	21.69
QPSK	2595	38000	10	50	0	21.63
QPSK	2615	38200	10	1	0	22.44
QPSK	2615	38200	10	1	25	22.67
QPSK	2615	38200	10	1	49	22.55
QPSK	2615	38200	10	25	0	21.45

QPSK	2615	38200	10	25	12	21.46
QPSK	2615	38200	10	25	25	21.53
QPSK	2615	38200	10	50	0	21.50

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2575	37800	10	1	0	22.24
16QAM	2575	37800	10	1	25	21.94
16QAM	2575	37800	10	1	49	22.10
16QAM	2575	37800	10	25	0	20.83
16QAM	2575	37800	10	25	12	21.03
16QAM	2575	37800	10	25	25	20.88
16QAM	2575	37800	10	50	0	20.83
16QAM	2595	38000	10	1	0	21.90
16QAM	2595	38000	10	1	25	22.10
16QAM	2595	38000	10	1	49	21.75
16QAM	2595	38000	10	25	0	20.78
16QAM	2595	38000	10	25	12	20.70
16QAM	2595	38000	10	25	25	20.69
16QAM	2595	38000	10	50	0	20.63
16QAM	2615	38200	10	1	0	21.78
16QAM	2615	38200	10	1	25	22.22
16QAM	2615	38200	10	1	49	21.80
16QAM	2615	38200	10	25	0	20.51
16QAM	2615	38200	10	25	12	20.52
16QAM	2615	38200	10	25	25	20.57
16QAM	2615	38200	10	50	0	20.47
64QAM	2575	37800	10	1	0	21.94
64QAM	2575	37800	10	1	25	21.82
64QAM	2575	37800	10	1	49	21.77
64QAM	2575	37800	10	25	0	20.90
64QAM	2575	37800	10	25	12	21.05
64QAM	2575	37800	10	25	25	21.03
64QAM	2575	37800	10	50	0	20.85
64QAM	2595	38000	10	1	0	21.98
64QAM	2595	38000	10	1	25	21.96
64QAM	2595	38000	10	1	49	21.58
64QAM	2595	38000	10	25	0	20.68
64QAM	2595	38000	10	25	12	20.76
64QAM	2595	38000	10	25	25	20.69
64QAM	2595	38000	10	50	0	20.68
64QAM	2615	38200	10	1	0	21.73
64QAM	2615	38200	10	1	25	21.71
64QAM	2615	38200	10	1	49	21.30
64QAM	2615	38200	10	25	0	20.38
64QAM	2615	38200	10	25	12	20.56

64QAM	2615	38200	10	25	25	20.55
64QAM	2615	38200	10	50	0	20.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2577.5	37825	15	1	0	23.28
QPSK	2577.5	37825	15	1	37	23.31
QPSK	2577.5	37825	15	1	74	23.23
QPSK	2577.5	37825	15	36	0	21.68
QPSK	2577.5	37825	15	36	29	21.78
QPSK	2577.5	37825	15	36	30	21.73
QPSK	2577.5	37825	15	75	0	21.85
QPSK	2595	38000	15	1	0	23.26
QPSK	2595	38000	15	1	37	23.17
QPSK	2595	38000	15	1	74	22.99
QPSK	2595	38000	15	36	0	21.64
QPSK	2595	38000	15	36	29	21.63
QPSK	2595	38000	15	36	30	21.59
QPSK	2595	38000	15	75	0	21.55
QPSK	2612.5	38175	15	1	0	22.92
QPSK	2612.5	38175	15	1	37	22.82
QPSK	2612.5	38175	15	1	74	22.76
QPSK	2612.5	38175	15	36	0	21.38
QPSK	2612.5	38175	15	36	29	21.35
QPSK	2612.5	38175	15	36	30	21.39
QPSK	2612.5	38175	15	75	0	21.38

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2577.5	37825	15	1	0	22.11
16QAM	2577.5	37825	15	1	37	21.80
16QAM	2577.5	37825	15	1	74	21.71
16QAM	2577.5	37825	15	36	0	20.71
16QAM	2577.5	37825	15	36	29	20.82
16QAM	2577.5	37825	15	36	30	20.74
16QAM	2577.5	37825	15	75	0	20.80
16QAM	2595	38000	15	1	0	22.26
16QAM	2595	38000	15	1	37	22.29
16QAM	2595	38000	15	1	74	21.33
16QAM	2595	38000	15	36	0	20.67
16QAM	2595	38000	15	36	29	20.69
16QAM	2595	38000	15	36	30	20.58
16QAM	2595	38000	15	75	0	20.60
16QAM	2612.5	38175	15	1	0	21.69
16QAM	2612.5	38175	15	1	37	21.59
16QAM	2612.5	38175	15	1	74	21.23
16QAM	2612.5	38175	15	36	0	20.42
16QAM	2612.5	38175	15	36	29	20.53

16QAM	2612.5	38175	15	36	30	20.40
16QAM	2612.5	38175	15	75	0	20.29
64QAM	2577.5	37825	15	1	0	21.63
64QAM	2577.5	37825	15	1	37	22.08
64QAM	2577.5	37825	15	1	74	21.84
64QAM	2577.5	37825	15	36	0	20.67
64QAM	2577.5	37825	15	36	29	20.79
64QAM	2577.5	37825	15	36	30	20.74
64QAM	2577.5	37825	15	75	0	20.70
64QAM	2595	38000	15	1	0	21.89
64QAM	2595	38000	15	1	37	21.51
64QAM	2595	38000	15	1	74	21.59
64QAM	2595	38000	15	36	0	20.58
64QAM	2595	38000	15	36	29	20.43
64QAM	2595	38000	15	36	30	20.61
64QAM	2595	38000	15	75	0	20.57
64QAM	2612.5	38175	15	1	0	21.65
64QAM	2612.5	38175	15	1	37	21.64
64QAM	2612.5	38175	15	1	74	21.51
64QAM	2612.5	38175	15	36	0	20.38
64QAM	2612.5	38175	15	36	29	20.57
64QAM	2612.5	38175	15	36	30	20.46
64QAM	2612.5	38175	15	75	0	20.37

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	23.37
QPSK	2580	37850	20	1	49	23.33
QPSK	2580	37850	20	1	99	22.95
QPSK	2580	37850	20	50	0	21.70
QPSK	2580	37850	20	50	24	21.82
QPSK	2580	37850	20	50	50	21.75
QPSK	2580	37850	20	100	0	21.87
QPSK	2595	38000	20	1	0	23.26
QPSK	2595	38000	20	1	49	22.49
QPSK	2595	38000	20	1	99	22.86
QPSK	2595	38000	20	50	0	21.70
QPSK	2595	38000	20	50	24	21.61
QPSK	2595	38000	20	50	50	21.55
QPSK	2595	38000	20	100	0	21.57
QPSK	2610	38150	20	1	0	23.03
QPSK	2610	38150	20	1	49	22.32
QPSK	2610	38150	20	1	99	22.74
QPSK	2610	38150	20	50	0	21.51
QPSK	2610	38150	20	50	24	21.37
QPSK	2610	38150	20	50	50	21.46

QPSK	2610	38150	20	100	0	21.31
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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2580	37850	20	1	0	21.80
16QAM	2580	37850	20	1	49	21.89
16QAM	2580	37850	20	1	99	21.52
16QAM	2580	37850	20	50	0	20.68
16QAM	2580	37850	20	50	24	20.80
16QAM	2580	37850	20	50	50	20.82
16QAM	2580	37850	20	100	0	20.77
16QAM	2595	38000	20	1	0	22.17
16QAM	2595	38000	20	1	49	21.90
16QAM	2595	38000	20	1	99	21.30
16QAM	2595	38000	20	50	0	20.60
16QAM	2595	38000	20	50	24	20.57
16QAM	2595	38000	20	50	50	20.59
16QAM	2595	38000	20	100	0	20.51
16QAM	2610	38150	20	1	0	21.74
16QAM	2610	38150	20	1	49	21.51
16QAM	2610	38150	20	1	99	21.54
16QAM	2610	38150	20	50	0	20.41
16QAM	2610	38150	20	50	24	20.45
16QAM	2610	38150	20	50	50	20.55
16QAM	2610	38150	20	100	0	20.38
64QAM	2580	37850	20	1	0	22.10
64QAM	2580	37850	20	1	49	21.85
64QAM	2580	37850	20	1	99	21.62
64QAM	2580	37850	20	50	0	20.65
64QAM	2580	37850	20	50	24	20.84
64QAM	2580	37850	20	50	50	20.72
64QAM	2580	37850	20	100	0	20.75
64QAM	2595	38000	20	1	0	21.68
64QAM	2595	38000	20	1	49	21.80
64QAM	2595	38000	20	1	99	21.42
64QAM	2595	38000	20	50	0	20.66
64QAM	2595	38000	20	50	24	20.64
64QAM	2595	38000	20	50	50	20.57
64QAM	2595	38000	20	100	0	20.53
64QAM	2610	38150	20	1	0	21.72
64QAM	2610	38150	20	1	49	21.58
64QAM	2610	38150	20	1	99	21.38
64QAM	2610	38150	20	50	0	20.44
64QAM	2610	38150	20	50	24	20.28
64QAM	2610	38150	20	50	50	20.50
64QAM	2610	38150	20	100	0	20.40

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	4.472	Fig.1
38	QPSK	2595	38000	5	25	0	4.470	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.475	Fig.3
38	QPSK	2575	37800	10	50	0	8.887	Fig.4
38	QPSK	2595	38000	10	50	0	8.902	Fig.5
38	QPSK	2615	38200	10	50	0	8.928	Fig.6
38	QPSK	2577.5	37825	15	75	0	12.917	Fig.7
38	QPSK	2595	38000	15	75	0	13.409	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.354	Fig.9
38	QPSK	2580	37850	20	100	0	17.913	Fig.10
38	QPSK	2595	38000	20	100	0	17.741	Fig.11
38	QPSK	2610	38150	20	100	0	17.934	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	4.462	Fig.13
38	16QAM	2595	38000	5	25	0	4.459	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.477	Fig.15
38	16QAM	2575	37800	10	50	0	8.829	Fig.16
38	16QAM	2595	38000	10	50	0	8.941	Fig.17
38	16QAM	2615	38200	10	50	0	8.907	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.379	Fig.19
38	16QAM	2595	38000	15	75	0	12.625	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.331	Fig.21
38	16QAM	2580	37850	20	100	0	17.751	Fig.22
38	16QAM	2595	38000	20	100	0	17.698	Fig.23
38	16QAM	2610	38150	20	100	0	17.882	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	4.435	Fig.25
38	64QAM	2595	38000	5	25	0	4.462	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.451	Fig.27
38	64QAM	2575	37800	10	50	0	8.915	Fig.28
38	64QAM	2595	38000	10	50	0	8.961	Fig.29
38	64QAM	2615	38200	10	50	0	8.938	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.342	Fig.31
38	64QAM	2595	38000	15	75	0	13.445	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.323	Fig.33
38	64QAM	2580	37850	20	100	0	17.737	Fig.34
38	64QAM	2595	38000	20	100	0	17.746	Fig.35
38	64QAM	2610	38150	20	100	0	17.595	Fig.36

Test Mode: QPSK

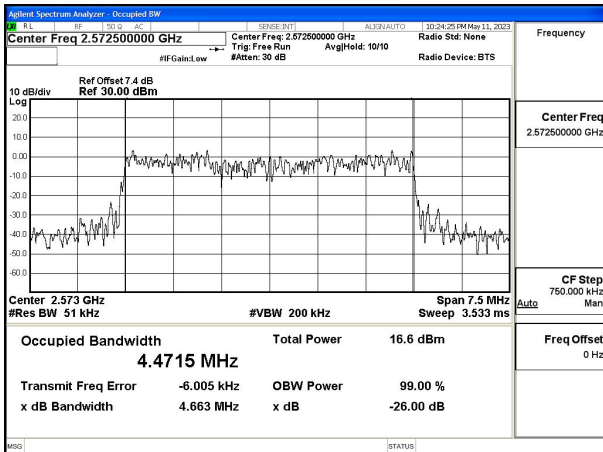


Fig.1

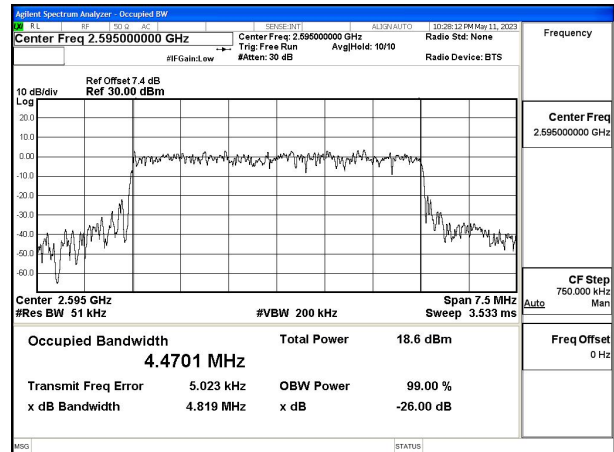


Fig.2

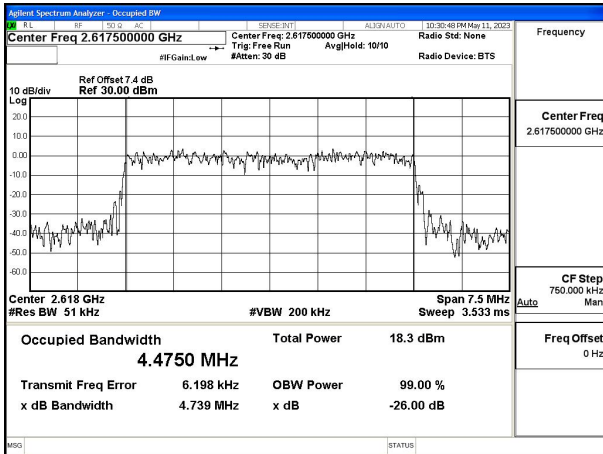


Fig.3

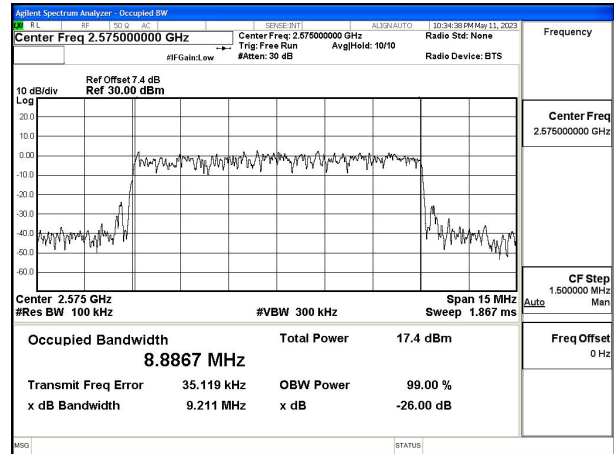


Fig.4

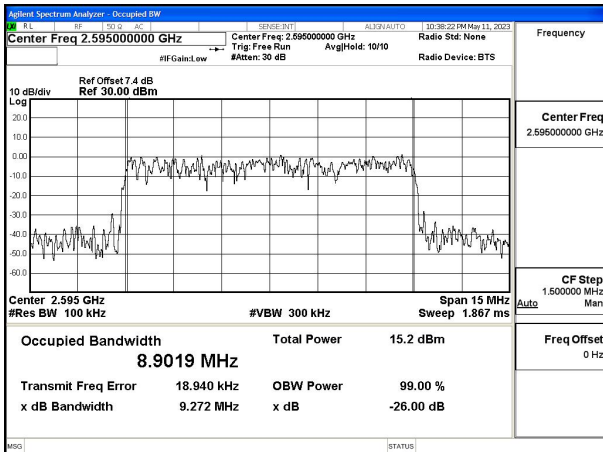


Fig.5

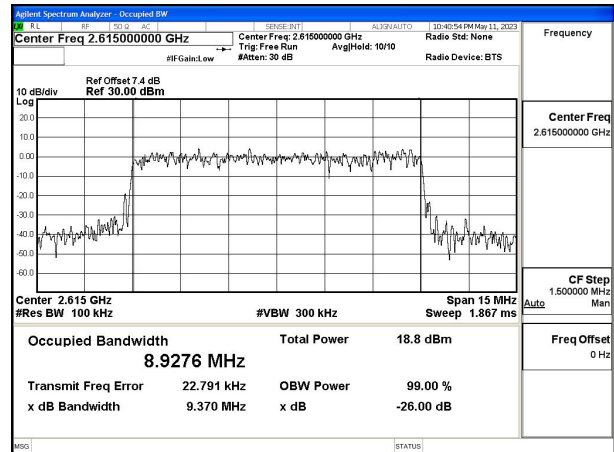


Fig.6

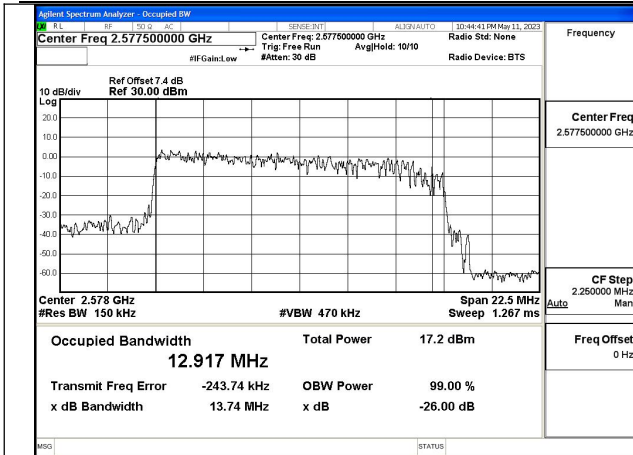


Fig.7

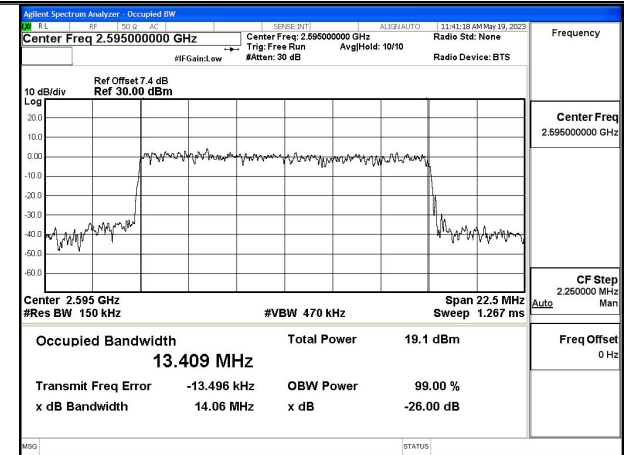


Fig.8

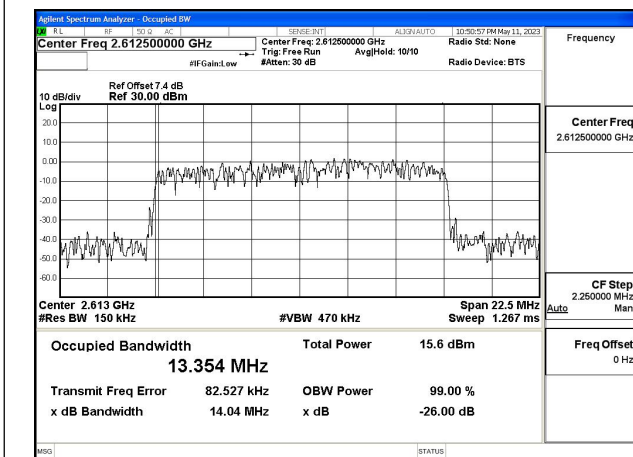


Fig.9

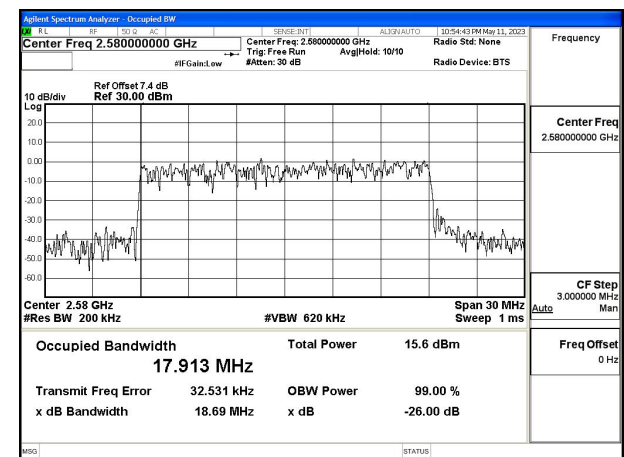


Fig.10

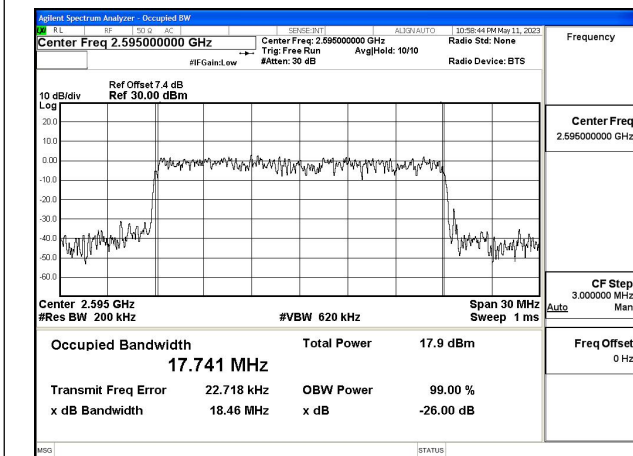


Fig.11

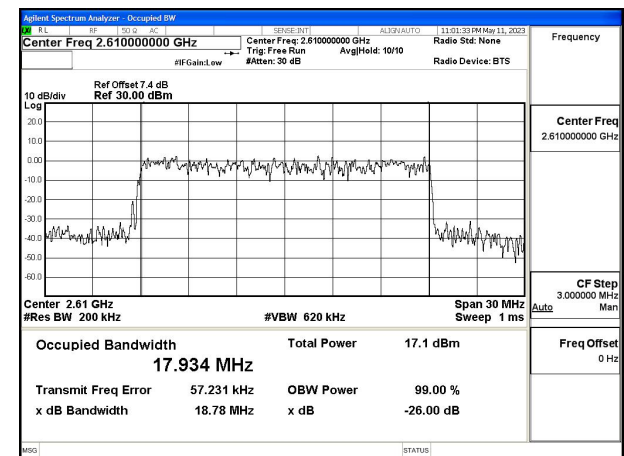


Fig.12

Test Mode: 16QAM

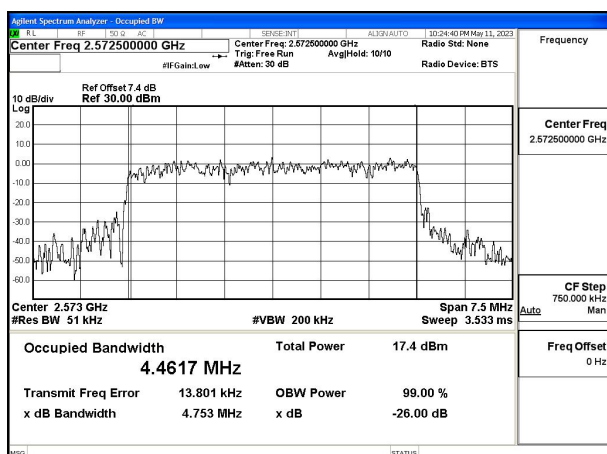


Fig.13

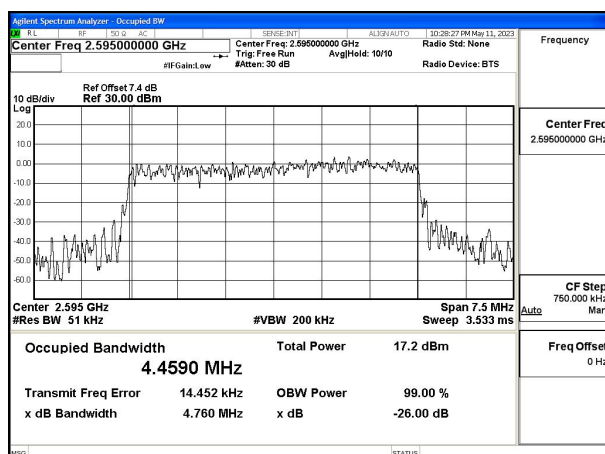


Fig.14

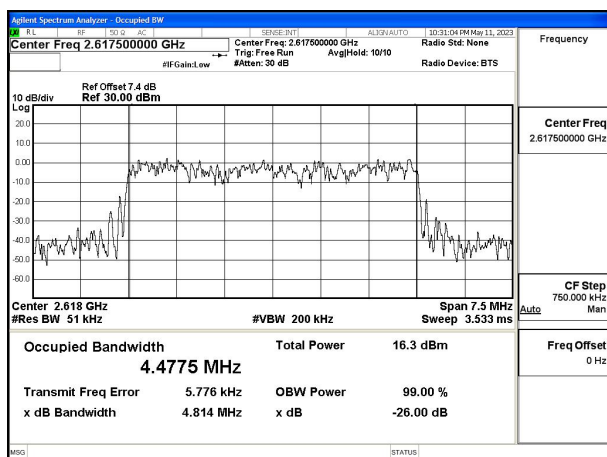


Fig.15

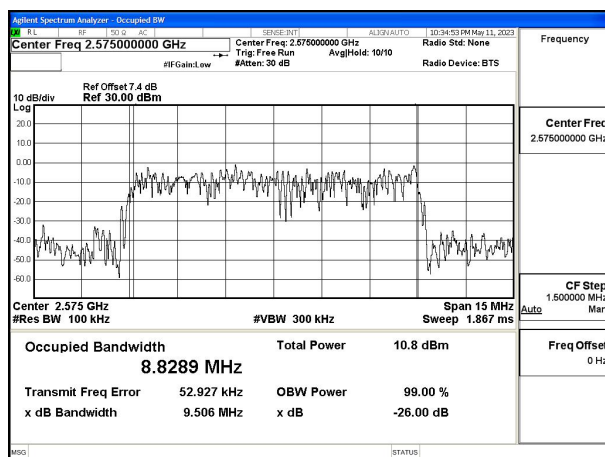


Fig.16

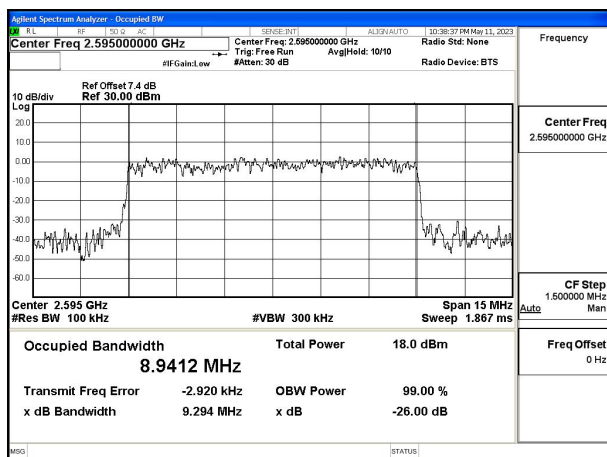


Fig.17

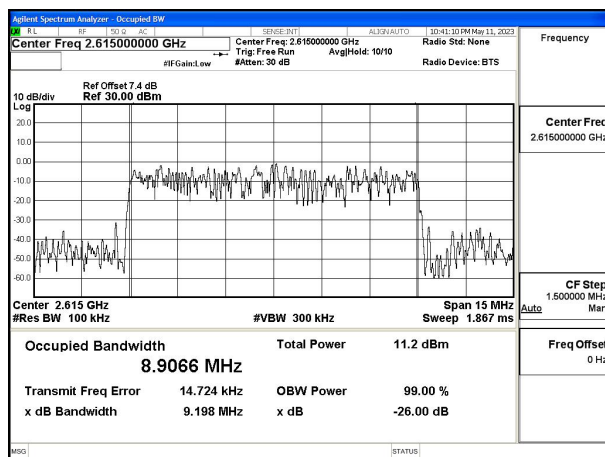


Fig.18

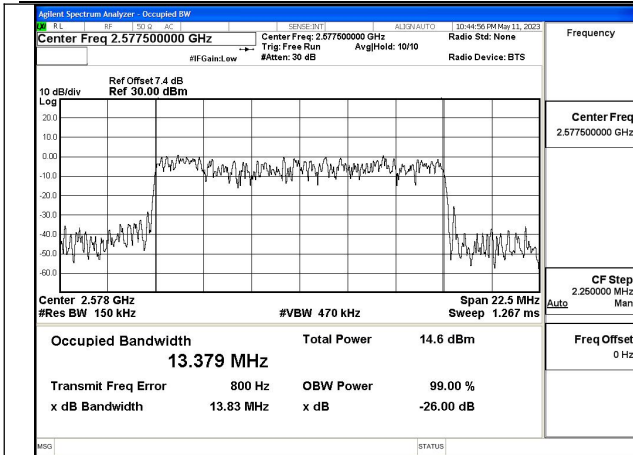


Fig.19

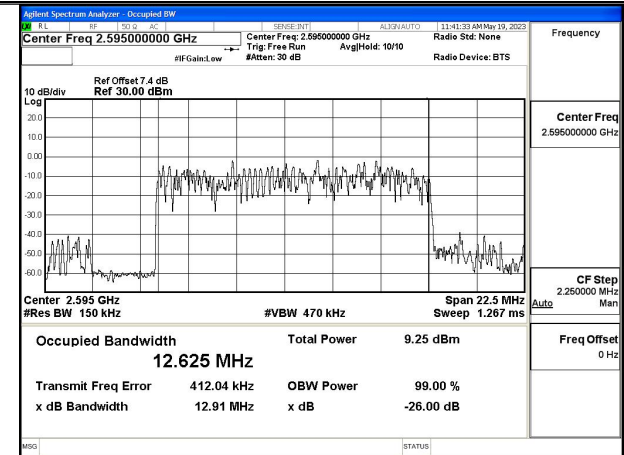


Fig.20

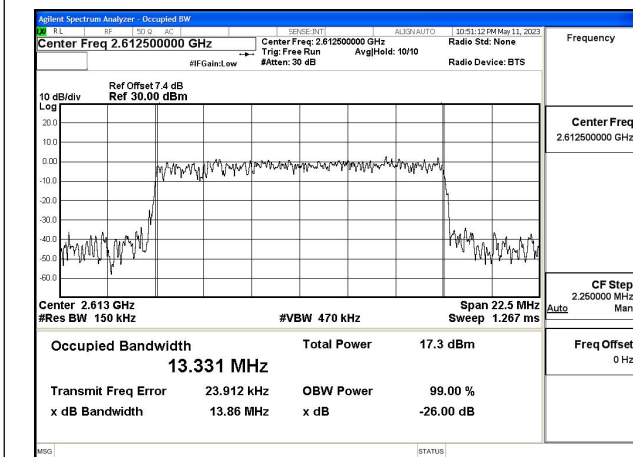


Fig.21

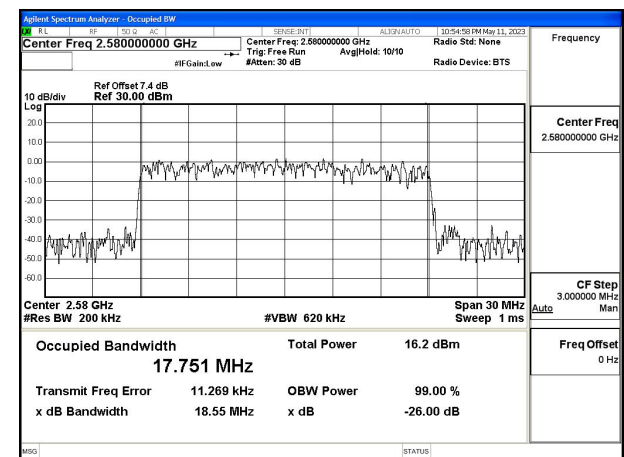


Fig.22

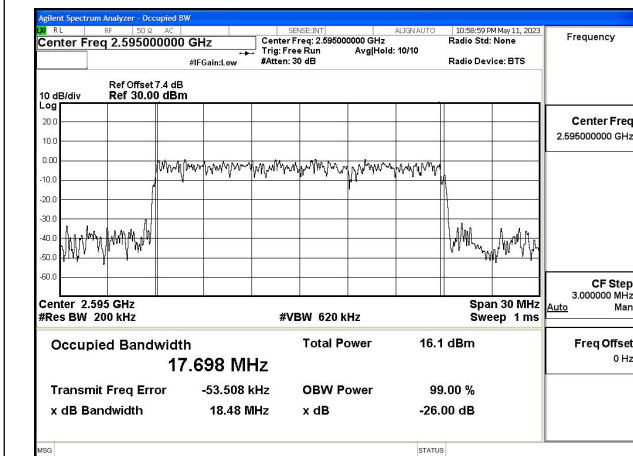


Fig.23

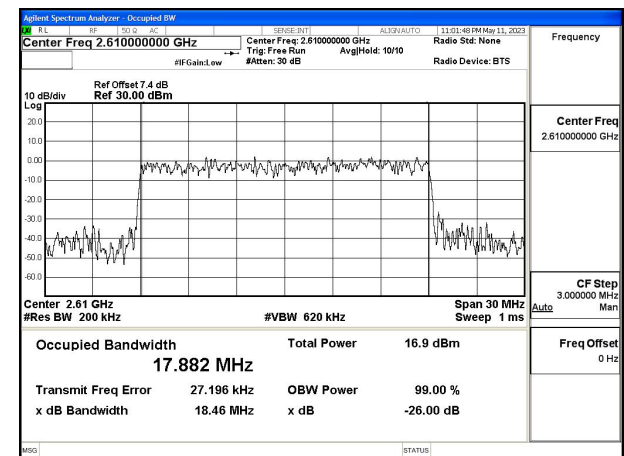


Fig.24

Test Mode: 64QAM

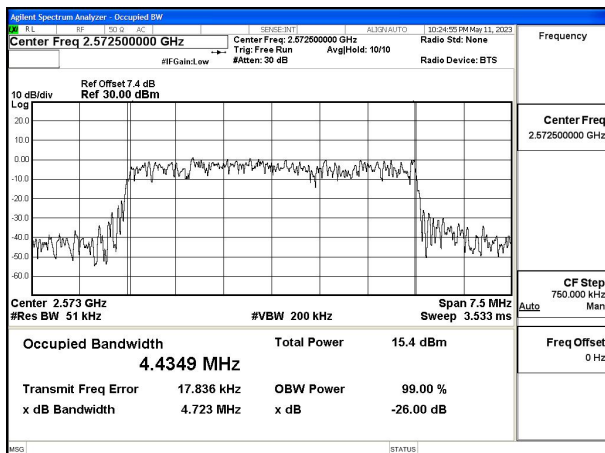


Fig.25

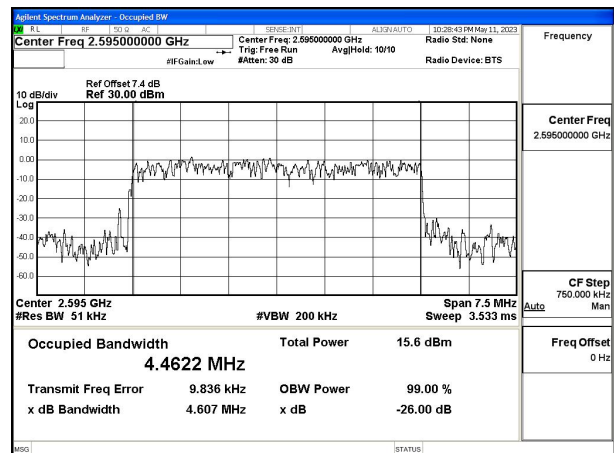


Fig.26

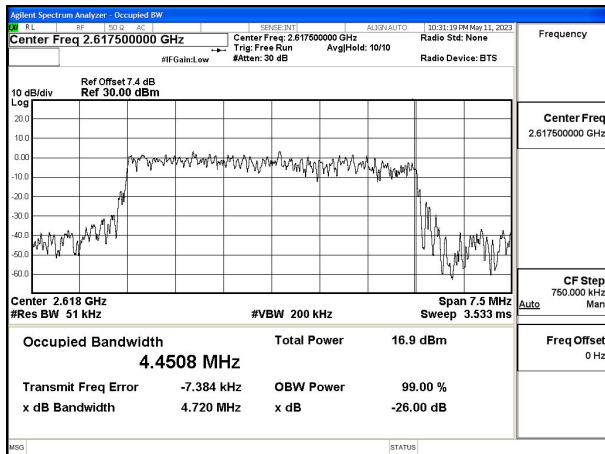


Fig.27

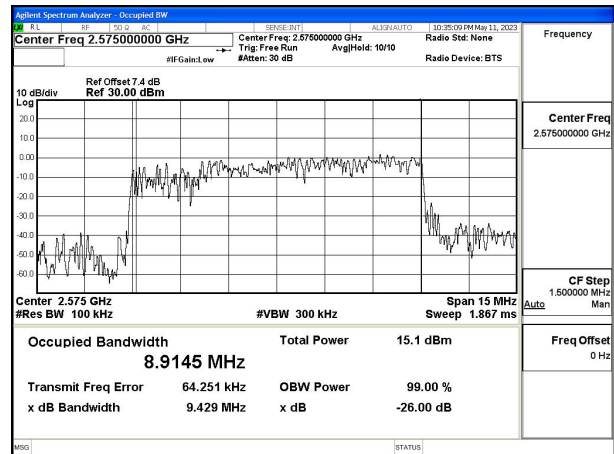


Fig.28

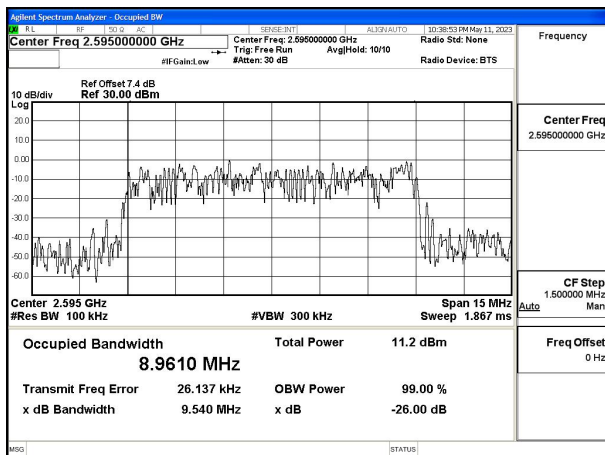


Fig.29

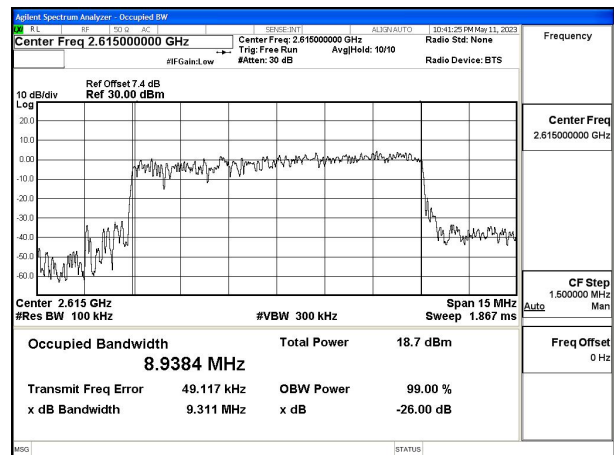


Fig.30

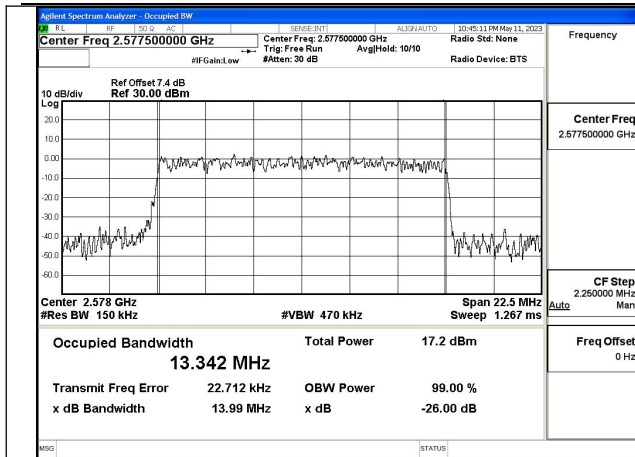


Fig.31

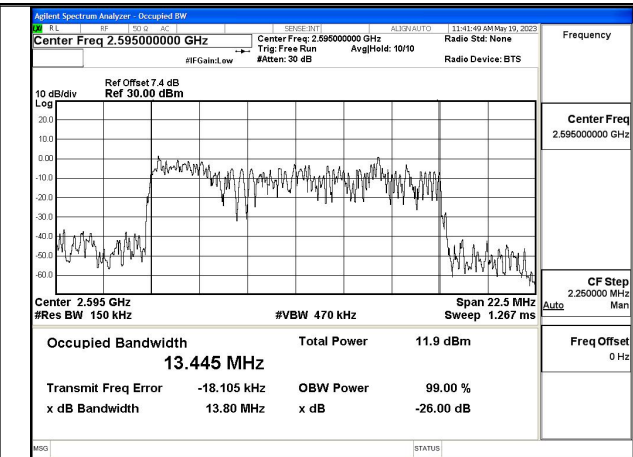


Fig.32

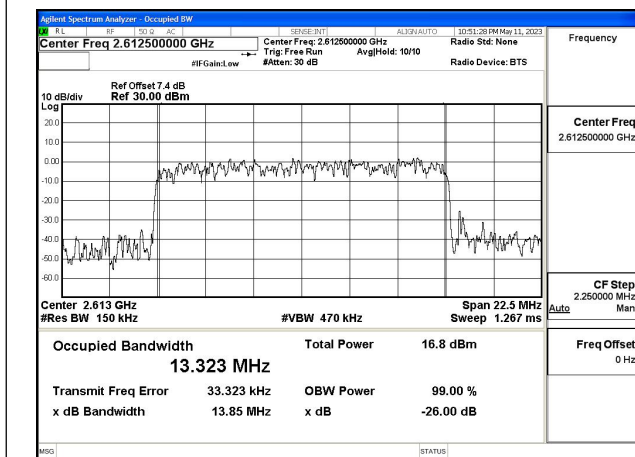


Fig.33

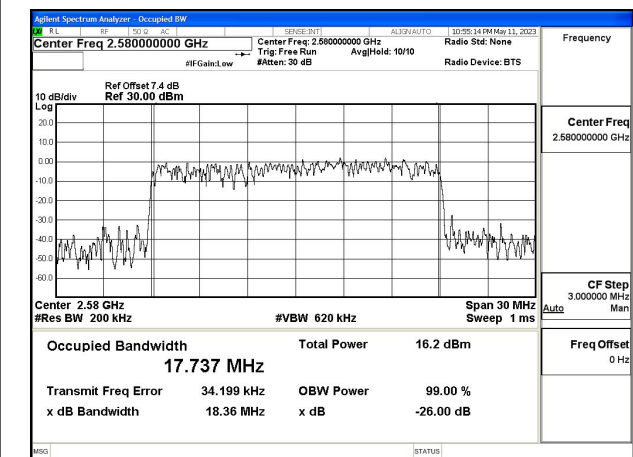


Fig.34

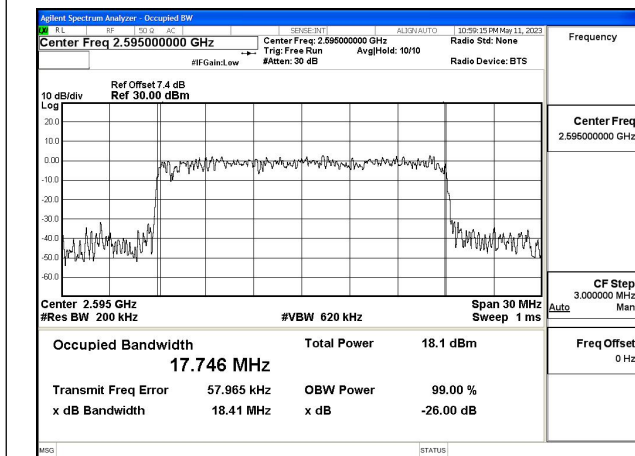


Fig.35

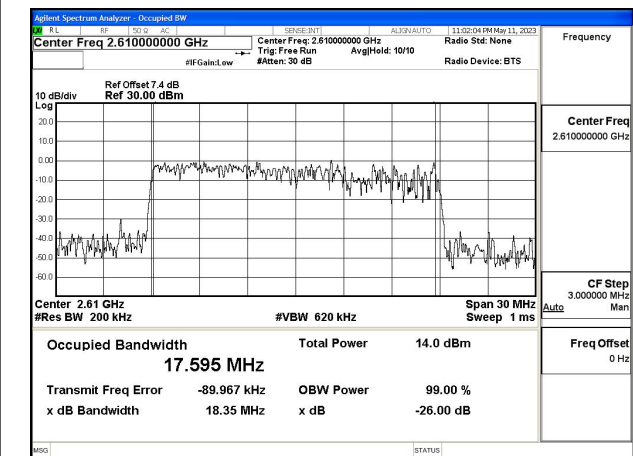


Fig.36

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	4.663	Fig.1
38	QPSK	2595	38000	5	25	0	4.819	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.739	Fig.3
38	QPSK	2575	37800	10	50	0	9.211	Fig.4
38	QPSK	2595	38000	10	50	0	9.272	Fig.5
38	QPSK	2615	38200	10	50	0	9.370	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.743	Fig.7
38	QPSK	2595	38000	15	75	0	14.057	Fig.8
38	QPSK	2612.5	38175	15	75	0	14.035	Fig.9
38	QPSK	2580	37850	20	100	0	18.693	Fig.10
38	QPSK	2595	38000	20	100	0	18.460	Fig.11
38	QPSK	2610	38150	20	100	0	18.780	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	4.753	Fig.13
38	16QAM	2595	38000	5	25	0	4.760	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.814	Fig.15
38	16QAM	2575	37800	10	50	0	9.506	Fig.16
38	16QAM	2595	38000	10	50	0	9.294	Fig.17
38	16QAM	2615	38200	10	50	0	9.198	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.831	Fig.19
38	16QAM	2595	38000	15	75	0	12.907	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.855	Fig.21
38	16QAM	2580	37850	20	100	0	18.549	Fig.22
38	16QAM	2595	38000	20	100	0	18.477	Fig.23
38	16QAM	2610	38150	20	100	0	18.457	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	4.723	Fig.25
38	64QAM	2595	38000	5	25	0	4.607	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.720	Fig.27
38	64QAM	2575	37800	10	50	0	9.429	Fig.28
38	64QAM	2595	38000	10	50	0	9.540	Fig.29
38	64QAM	2615	38200	10	50	0	9.311	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.985	Fig.31
38	64QAM	2595	38000	15	75	0	13.801	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.849	Fig.33
38	64QAM	2580	37850	20	100	0	18.365	Fig.34
38	64QAM	2595	38000	20	100	0	18.410	Fig.35
38	64QAM	2610	38150	20	100	0	18.352	Fig.36

Test Mode: QPSK

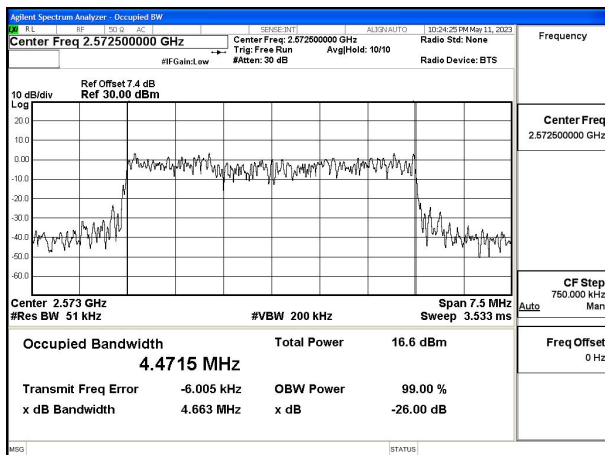


Fig.1

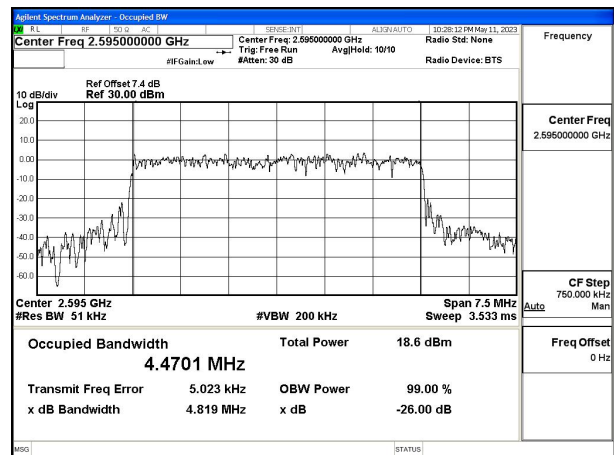


Fig.2

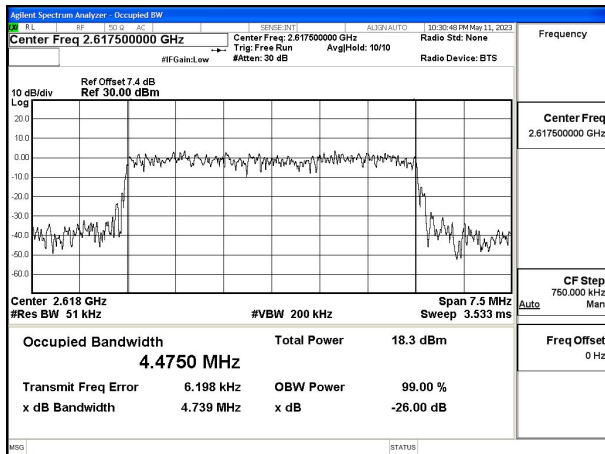


Fig.3

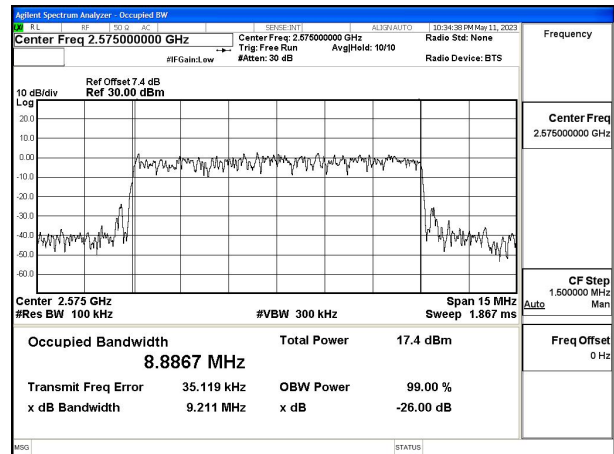


Fig.4

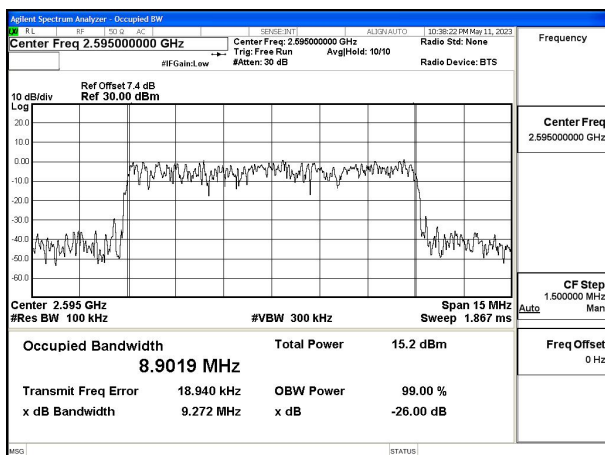


Fig.5

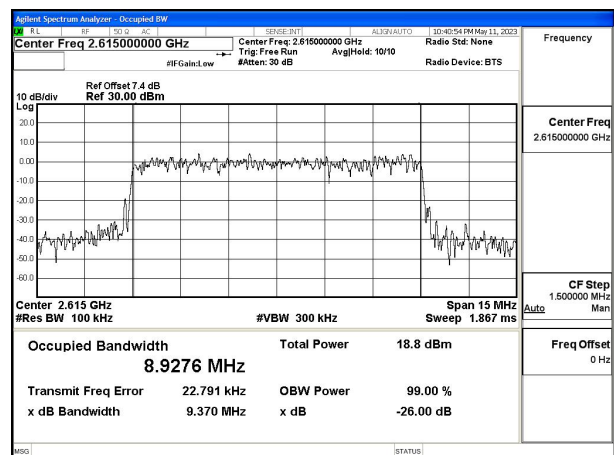


Fig.6