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	23.03
QPSK	2572.5	37775	5	1	12	22.99
QPSK	2572.5	37775	5	1	24	23.26
QPSK	2572.5	37775	5	12	0	22.22
QPSK	2572.5	37775	5	12	7	22.32
QPSK	2572.5	37775	5	12	13	22.27
QPSK	2572.5	37775	5	25	0	22.40
QPSK	2595	38000	5	1	0	23.23
QPSK	2595	38000	5	1	12	23.25
QPSK	2595	38000	5	1	24	23.07
QPSK	2595	38000	5	12	0	22.05
QPSK	2595	38000	5	12	7	22.04
QPSK	2595	38000	5	12	13	22.11
QPSK	2595	38000	5	25	0	22.04
QPSK	2617.5	38225	5	1	0	22.73
QPSK	2617.5	38225	5	1	12	23.31
QPSK	2617.5	38225	5	1	24	22.72
QPSK	2617.5	38225	5	12	0	21.85
QPSK	2617.5	38225	5	12	7	21.95
QPSK	2617.5	38225	5	12	13	21.97
QPSK	2617.5	38225	5	25	0	21.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2572.5	37775	5	1	0	22.36
16QAM	2572.5	37775	5	1	12	22.62
16QAM	2572.5	37775	5	1	24	22.57
16QAM	2572.5	37775	5	12	0	21.30
16QAM	2572.5	37775	5	12	7	21.50
16QAM	2572.5	37775	5	12	13	21.37
16QAM	2572.5	37775	5	25	0	21.41
16QAM	2595	38000	5	1	0	22.37
16QAM	2595	38000	5	1	12	22.55
16QAM	2595	38000	5	1	24	22.36
16QAM	2595	38000	5	12	0	21.16
16QAM	2595	38000	5	12	7	21.07
16QAM	2595	38000	5	12	13	21.19
16QAM	2595	38000	5	25	0	21.06
16QAM	2617.5	38225	5	1	0	22.36
16QAM	2617.5	38225	5	1	12	22.55
16QAM	2617.5	38225	5	1	24	22.14
16QAM	2617.5	38225	5	12	0	20.92
16QAM	2617.5	38225	5	12	7	20.91
16QAM	2617.5	38225	5	12	13	20.91
16QAM	2617.5	38225	5	25	0	20.93
64QAM	2572.5	37775	5	1	0	22.68
64QAM	2572.5	37775	5	1	12	22.97
64QAM	2572.5	37775	5	1	24	22.69
64QAM	2572.5	37775	5	12	0	21.27
64QAM	2572.5	37775	5	12	7	21.46
64QAM	2572.5	37775	5	12	13	21.29
64QAM	2572.5	37775	5	25	0	21.35
64QAM	2595	38000	5	1	0	22.36
64QAM	2595	38000	5	1	12	22.26
64QAM	2595	38000	5	1	24	22.14
64QAM	2595	38000	5	12	0	21.11
64QAM	2595	38000	5	12	7	21.15
64QAM	2595	38000	5	12	13	21.10
64QAM	2595	38000	5	25	0	21.10
64QAM	2617.5	38225	5	1	0	22.20
64QAM	2617.5	38225	5	1	12	21.95
64QAM	2617.5	38225	5	1	24	21.91
64QAM	2617.5	38225	5	12	0	20.95
64QAM	2617.5	38225	5	12	7	21.08
64QAM	2617.5	38225	5	12	13	20.93
64QAM	2617.5	38225	5	25	0	20.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2575	37800	10	1	0	23.10
QPSK	2575	37800	10	1	25	23.13
QPSK	2575	37800	10	1	49	23.07
QPSK	2575	37800	10	25	0	22.24
QPSK	2575	37800	10	25	12	22.32
QPSK	2575	37800	10	25	25	22.26
QPSK	2575	37800	10	50	0	22.37
QPSK	2595	38000	10	1	0	23.28
QPSK	2595	38000	10	1	25	22.99
QPSK	2595	38000	10	1	49	22.94
QPSK	2595	38000	10	25	0	22.08
QPSK	2595	38000	10	25	12	22.04
QPSK	2595	38000	10	25	25	22.04
QPSK	2595	38000	10	50	0	21.98
QPSK	2615	38200	10	1	0	22.93
QPSK	2615	38200	10	1	25	22.73
QPSK	2615	38200	10	1	49	22.82
QPSK	2615	38200	10	25	0	21.83
QPSK	2615	38200	10	25	12	21.86
QPSK	2615	38200	10	25	25	21.86
QPSK	2615	38200	10	50	0	21.83

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2575	37800	10	1	0	22.49
16QAM	2575	37800	10	1	25	22.68
16QAM	2575	37800	10	1	49	22.60
16QAM	2575	37800	10	25	0	21.33
16QAM	2575	37800	10	25	12	21.44
16QAM	2575	37800	10	25	25	21.37
16QAM	2575	37800	10	50	0	21.30
16QAM	2595	38000	10	1	0	22.82
16QAM	2595	38000	10	1	25	22.54
16QAM	2595	38000	10	1	49	22.65
16QAM	2595	38000	10	25	0	21.12
16QAM	2595	38000	10	25	12	21.14
16QAM	2595	38000	10	25	25	21.15
16QAM	2595	38000	10	50	0	21.12
16QAM	2615	38200	10	1	0	22.34
16QAM	2615	38200	10	1	25	22.12
16QAM	2615	38200	10	1	49	22.13
16QAM	2615	38200	10	25	0	20.81
16QAM	2615	38200	10	25	12	20.96
16QAM	2615	38200	10	25	25	20.91
16QAM	2615	38200	10	50	0	20.88
64QAM	2575	37800	10	1	0	22.48
64QAM	2575	37800	10	1	25	22.45
64QAM	2575	37800	10	1	49	22.16
64QAM	2575	37800	10	25	0	21.30
64QAM	2575	37800	10	25	12	21.43
64QAM	2575	37800	10	25	25	21.33
64QAM	2575	37800	10	50	0	21.29
64QAM	2595	38000	10	1	0	22.14
64QAM	2595	38000	10	1	25	22.08
64QAM	2595	38000	10	1	49	22.14
64QAM	2595	38000	10	25	0	21.16
64QAM	2595	38000	10	25	12	21.20
64QAM	2595	38000	10	25	25	21.05
64QAM	2595	38000	10	50	0	20.94
64QAM	2615	38200	10	1	0	21.78
64QAM	2615	38200	10	1	25	22.15
64QAM	2615	38200	10	1	49	22.18
64QAM	2615	38200	10	25	0	20.88
64QAM	2615	38200	10	25	12	20.90
64QAM	2615	38200	10	25	25	21.02
64QAM	2615	38200	10	50	0	20.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2577.5	37825	15	1	0	22.85
QPSK	2577.5	37825	15	1	37	22.89
QPSK	2577.5	37825	15	1	74	22.68
QPSK	2577.5	37825	15	36	0	22.15
QPSK	2577.5	37825	15	36	29	22.17
QPSK	2577.5	37825	15	36	30	22.18
QPSK	2577.5	37825	15	75	0	22.22
QPSK	2595	38000	15	1	0	23.08
QPSK	2595	38000	15	1	37	23.52
QPSK	2595	38000	15	1	74	23.24
QPSK	2595	38000	15	36	0	22.04
QPSK	2595	38000	15	36	29	21.86
QPSK	2595	38000	15	36	30	21.99
QPSK	2595	38000	15	75	0	21.93
QPSK	2612.5	38175	15	1	0	23.30
QPSK	2612.5	38175	15	1	37	23.28
QPSK	2612.5	38175	15	1	74	22.53
QPSK	2612.5	38175	15	36	0	21.69
QPSK	2612.5	38175	15	36	29	21.70
QPSK	2612.5	38175	15	36	30	21.75
QPSK	2612.5	38175	15	75	0	21.86

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2577.5	37825	15	1	0	22.72
16QAM	2577.5	37825	15	1	37	22.45
16QAM	2577.5	37825	15	1	74	22.33
16QAM	2577.5	37825	15	36	0	21.45
16QAM	2577.5	37825	15	36	29	21.07
16QAM	2577.5	37825	15	36	30	21.16
16QAM	2577.5	37825	15	75	0	21.19
16QAM	2595	38000	15	1	0	22.15
16QAM	2595	38000	15	1	37	22.39
16QAM	2595	38000	15	1	74	21.81
16QAM	2595	38000	15	36	0	20.97
16QAM	2595	38000	15	36	29	20.85
16QAM	2595	38000	15	36	30	21.00
16QAM	2595	38000	15	75	0	20.95
16QAM	2612.5	38175	15	1	0	21.99
16QAM	2612.5	38175	15	1	37	21.95
16QAM	2612.5	38175	15	1	74	22.08
16QAM	2612.5	38175	15	36	0	20.86
16QAM	2612.5	38175	15	36	29	20.75
16QAM	2612.5	38175	15	36	30	20.86
16QAM	2612.5	38175	15	75	0	20.77
64QAM	2577.5	37825	15	1	0	22.50
64QAM	2577.5	37825	15	1	37	22.26
64QAM	2577.5	37825	15	1	74	22.00
64QAM	2577.5	37825	15	36	0	21.20
64QAM	2577.5	37825	15	36	29	21.12
64QAM	2577.5	37825	15	36	30	21.23
64QAM	2577.5	37825	15	75	0	21.30
64QAM	2595	38000	15	1	0	22.21
64QAM	2595	38000	15	1	37	22.00
64QAM	2595	38000	15	1	74	21.69
64QAM	2595	38000	15	36	0	21.03
64QAM	2595	38000	15	36	29	20.88
64QAM	2595	38000	15	36	30	21.02
64QAM	2595	38000	15	75	0	20.73
64QAM	2612.5	38175	15	1	0	21.88
64QAM	2612.5	38175	15	1	37	22.06
64QAM	2612.5	38175	15	1	74	21.94
64QAM	2612.5	38175	15	36	0	20.82
64QAM	2612.5	38175	15	36	29	20.77
64QAM	2612.5	38175	15	36	30	20.75
64QAM	2612.5	38175	15	75	0	20.89

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2580	37850	20	1	0	23.69
QPSK	2580	37850	20	1	49	23.61
QPSK	2580	37850	20	1	99	23.43
QPSK	2580	37850	20	50	0	22.15
QPSK	2580	37850	20	50	24	22.26
QPSK	2580	37850	20	50	50	22.07
QPSK	2580	37850	20	100	0	22.22
QPSK	2595	38000	20	1	0	23.65
QPSK	2595	38000	20	1	49	22.72
QPSK	2595	38000	20	1	99	23.28
QPSK	2595	38000	20	50	0	22.09
QPSK	2595	38000	20	50	24	21.90
QPSK	2595	38000	20	50	50	21.89
QPSK	2595	38000	20	100	0	21.85
QPSK	2610	38150	20	1	0	22.81
QPSK	2610	38150	20	1	49	22.53
QPSK	2610	38150	20	1	99	22.38
QPSK	2610	38150	20	50	0	21.81
QPSK	2610	38150	20	50	24	21.74
QPSK	2610	38150	20	50	50	21.75
QPSK	2610	38150	20	100	0	21.69

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	2580	37850	20	1	0	22.12
16QAM	2580	37850	20	1	49	22.46
16QAM	2580	37850	20	1	99	22.35
16QAM	2580	37850	20	50	0	21.20
16QAM	2580	37850	20	50	24	21.29
16QAM	2580	37850	20	50	50	21.08
16QAM	2580	37850	20	100	0	21.24
16QAM	2595	38000	20	1	0	22.21
16QAM	2595	38000	20	1	49	22.33
16QAM	2595	38000	20	1	99	22.29
16QAM	2595	38000	20	50	0	21.04
16QAM	2595	38000	20	50	24	20.98
16QAM	2595	38000	20	50	50	21.01
16QAM	2595	38000	20	100	0	21.06
16QAM	2610	38150	20	1	0	21.97
16QAM	2610	38150	20	1	49	21.88
16QAM	2610	38150	20	1	99	21.84
16QAM	2610	38150	20	50	0	20.83
16QAM	2610	38150	20	50	24	20.74
16QAM	2610	38150	20	50	50	20.76
16QAM	2610	38150	20	100	0	20.85
64QAM	2580	37850	20	1	0	22.19
64QAM	2580	37850	20	1	49	21.88
64QAM	2580	37850	20	1	99	21.81
64QAM	2580	37850	20	50	0	21.19
64QAM	2580	37850	20	50	24	21.27
64QAM	2580	37850	20	50	50	21.19
64QAM	2580	37850	20	100	0	21.10
64QAM	2595	38000	20	1	0	22.36
64QAM	2595	38000	20	1	49	21.85
64QAM	2595	38000	20	1	99	21.97
64QAM	2595	38000	20	50	0	20.99
64QAM	2595	38000	20	50	24	20.98
64QAM	2595	38000	20	50	50	20.81
64QAM	2595	38000	20	100	0	20.92
64QAM	2610	38150	20	1	0	22.47
64QAM	2610	38150	20	1	49	22.11
64QAM	2610	38150	20	1	99	21.80
64QAM	2610	38150	20	50	0	20.85
64QAM	2610	38150	20	50	24	20.82
64QAM	2610	38150	20	50	50	20.91
64QAM	2610	38150	20	100	0	20.80

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	4.468	Fig.1
38	QPSK	2595	38000	5	25	0	4.453	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.447	Fig.3
38	QPSK	2575	37800	10	50	0	8.914	Fig.4
38	QPSK	2595	38000	10	50	0	8.915	Fig.5
38	QPSK	2615	38200	10	50	0	8.934	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.421	Fig.7
38	QPSK	2595	38000	15	75	0	13.218	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.325	Fig.9
38	QPSK	2580	37850	20	100	0	17.772	Fig.10
38	QPSK	2595	38000	20	100	0	17.734	Fig.11
38	QPSK	2610	38150	20	100	0	17.697	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	4.450	Fig.13
38	16QAM	2595	38000	5	25	0	4.476	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.442	Fig.15
38	16QAM	2575	37800	10	50	0	8.865	Fig.16
38	16QAM	2595	38000	10	50	0	8.895	Fig.17
38	16QAM	2615	38200	10	50	0	8.832	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.415	Fig.19
38	16QAM	2595	38000	15	75	0	13.395	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.414	Fig.21
38	16QAM	2580	37850	20	100	0	17.823	Fig.22
38	16QAM	2595	38000	20	100	0	17.817	Fig.23
38	16QAM	2610	38150	20	100	0	17.785	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	4.468	Fig.25
38	64QAM	2595	38000	5	25	0	4.437	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.458	Fig.27
38	64QAM	2575	37800	10	50	0	8.874	Fig.28
38	64QAM	2595	38000	10	50	0	8.895	Fig.29
38	64QAM	2615	38200	10	50	0	8.924	Fig.30
38	64QAM	2577.5	37825	15	75	0	13.302	Fig.31
38	64QAM	2595	38000	15	75	0	13.317	Fig.32
38	64QAM	2612.5	38175	15	75	0	13.357	Fig.33
38	64QAM	2580	37850	20	100	0	17.824	Fig.34
38	64QAM	2595	38000	20	100	0	17.890	Fig.35
38	64QAM	2610	38150	20	100	0	17.742	Fig.36

Test Mode: QPSK

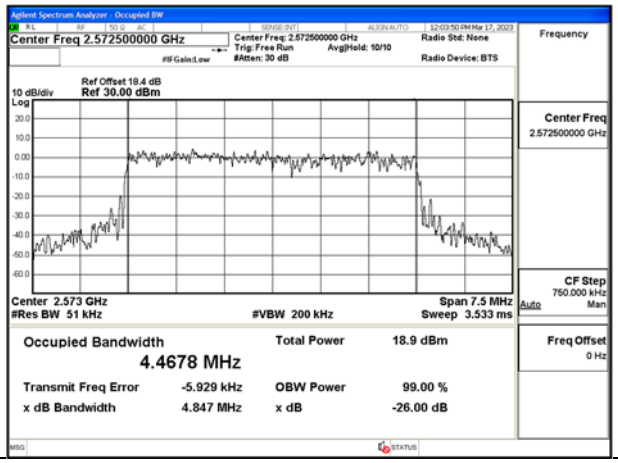

Fig.1

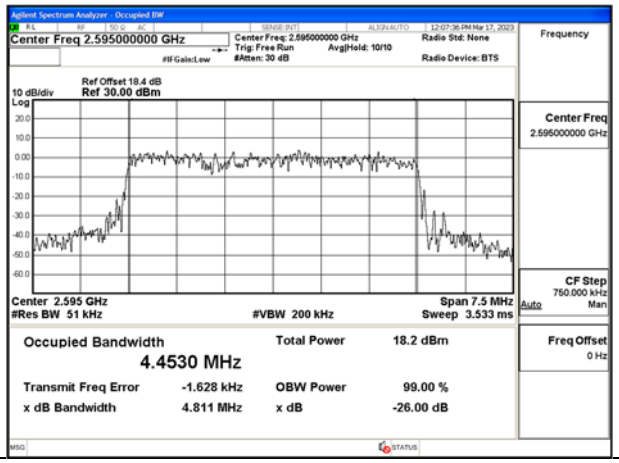

Fig.2

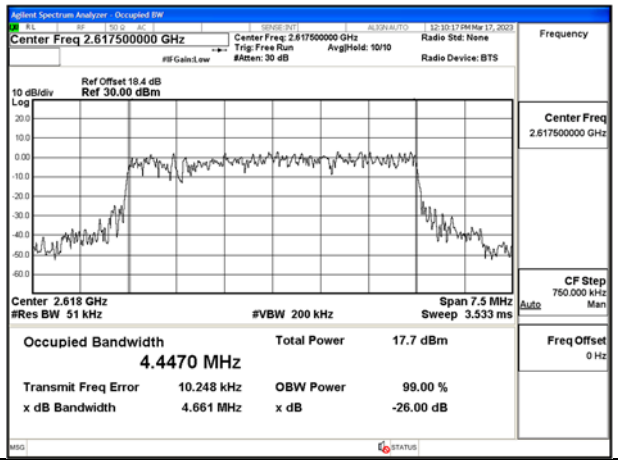

Fig.3

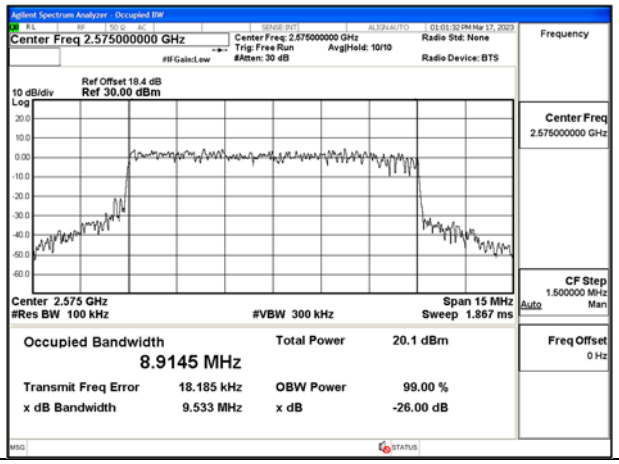

Fig.4

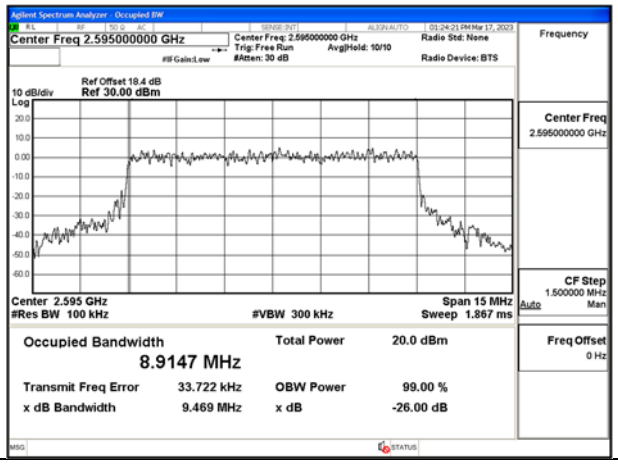

Fig.5

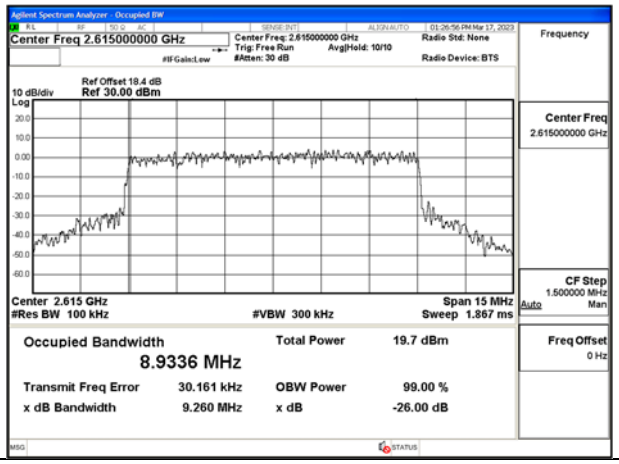

Fig.6

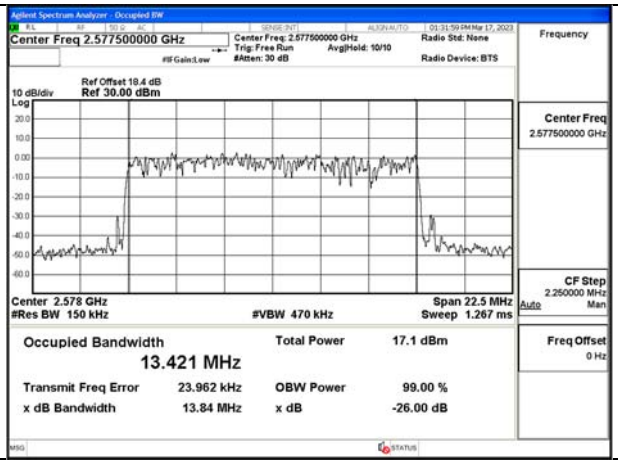

Fig.7

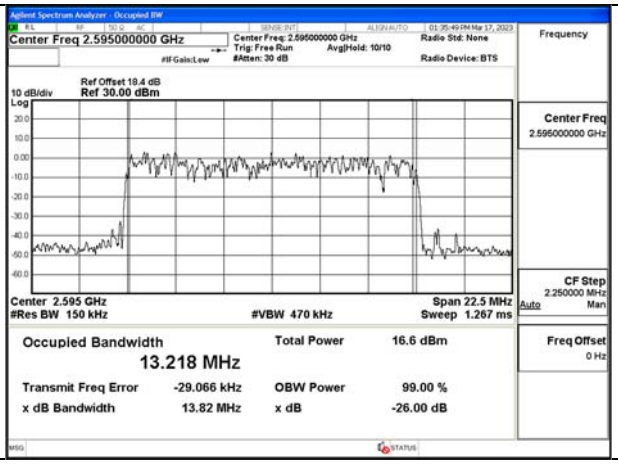

Fig.8

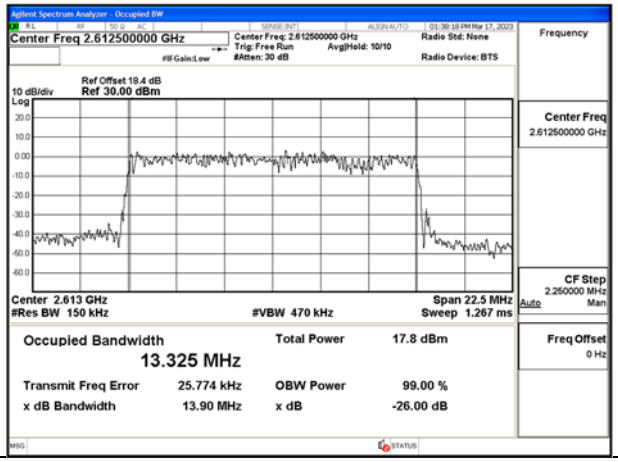

Fig.9

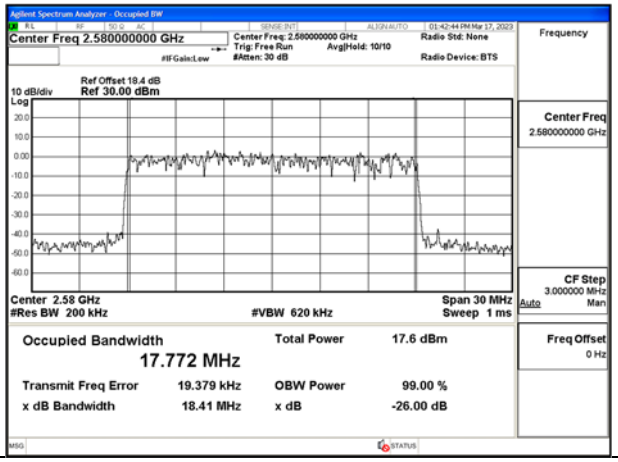

Fig.10

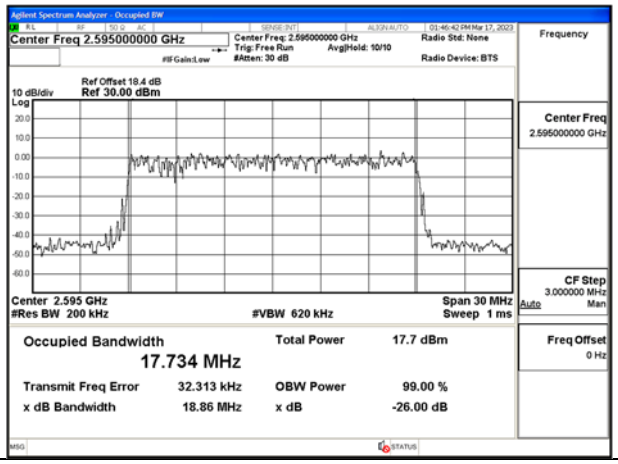

Fig.11

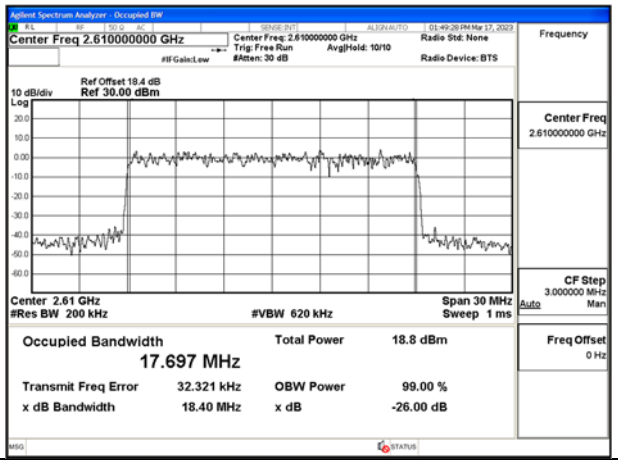

Fig.12

Test Mode: 16QAM

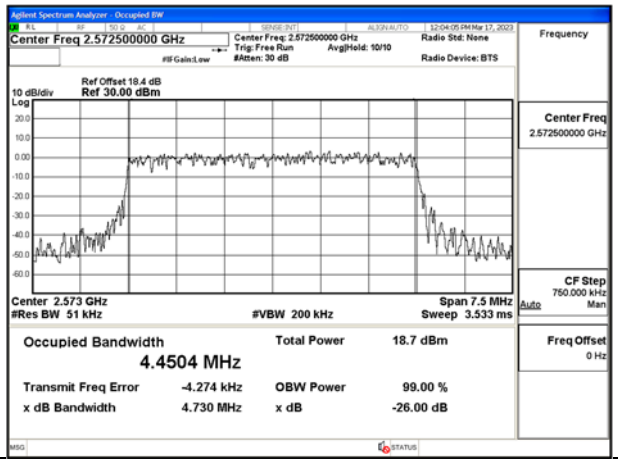

Fig.13

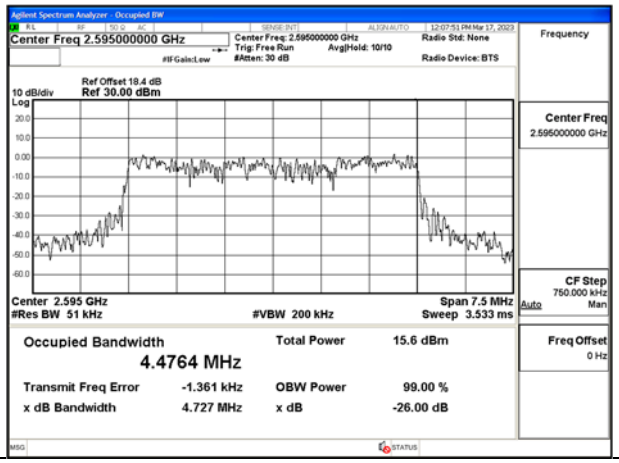

Fig.14

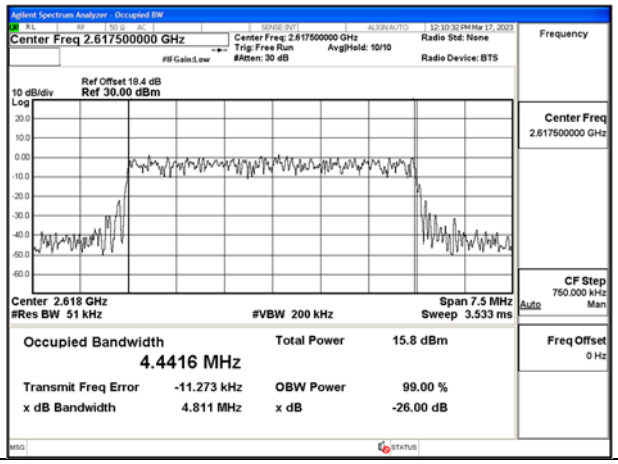

Fig.15

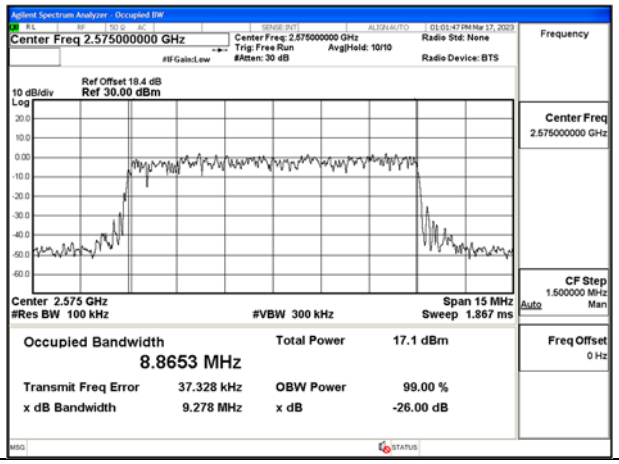

Fig.16

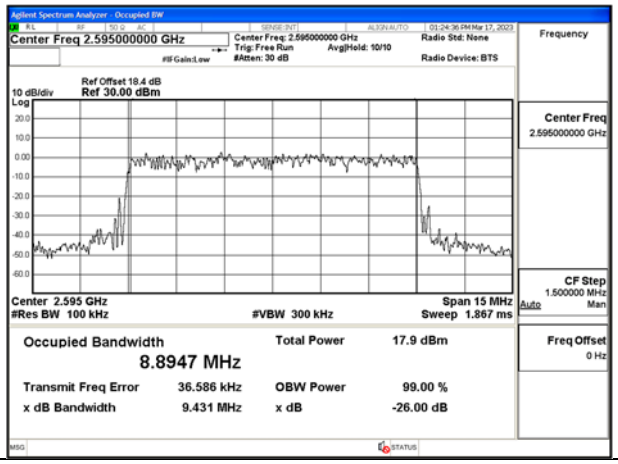

Fig.17

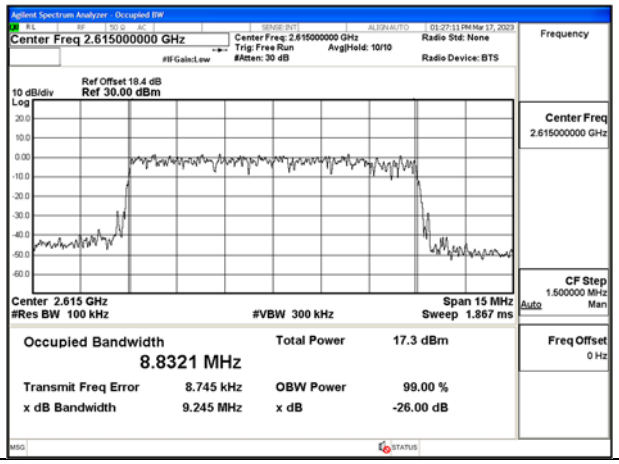

Fig.18

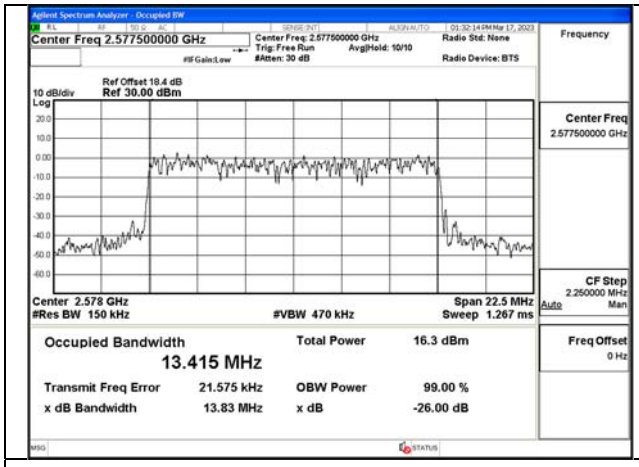

Fig.19

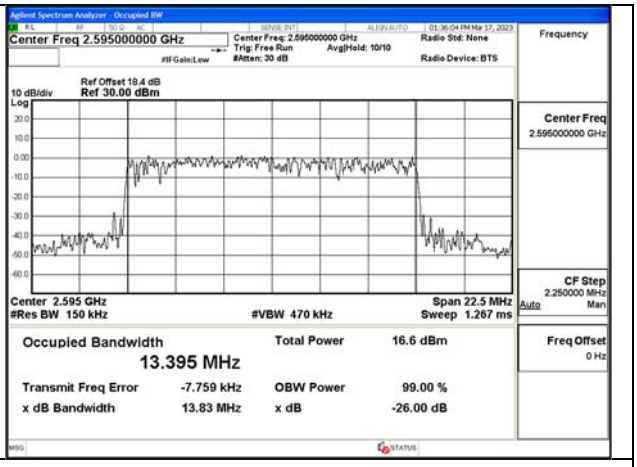

Fig.20

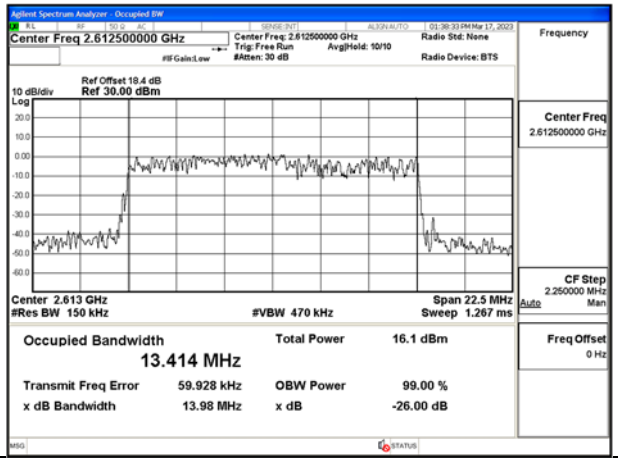

Fig.21

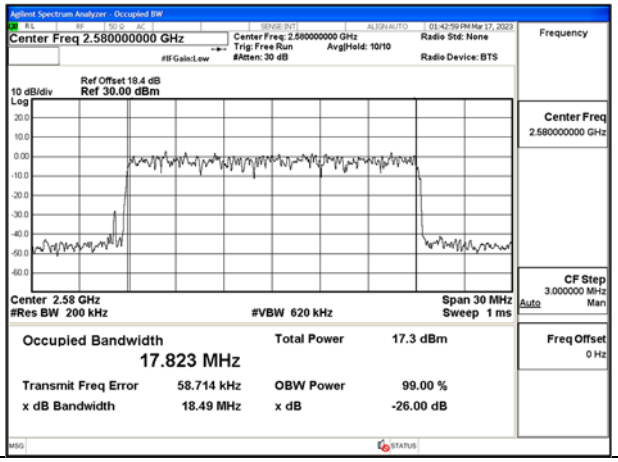

Fig.22

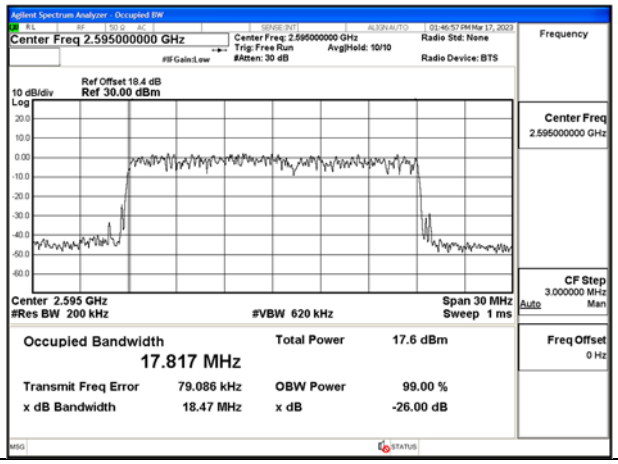

Fig.23

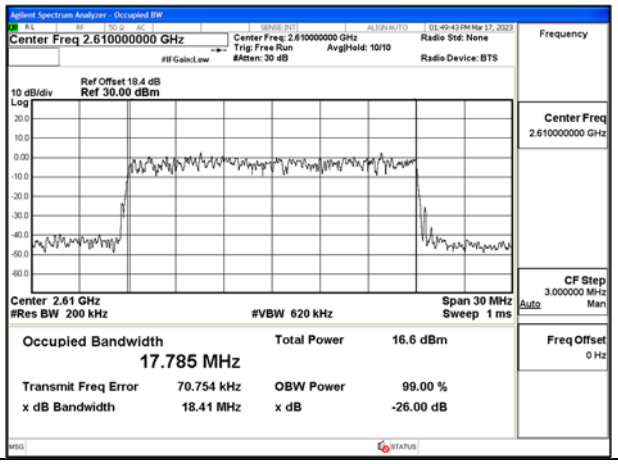

Fig.24

Test Mode: 64QAM

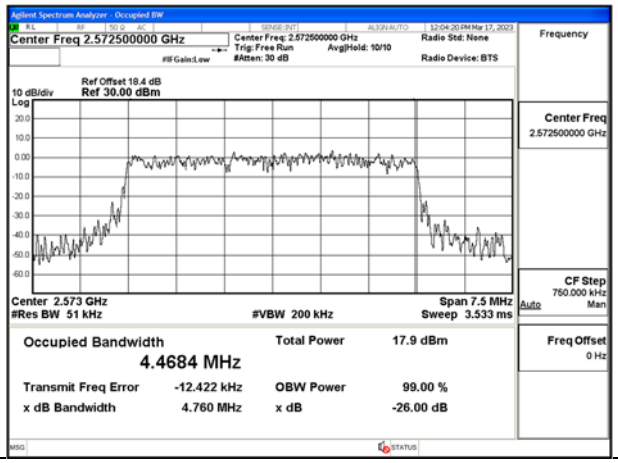

Fig.25

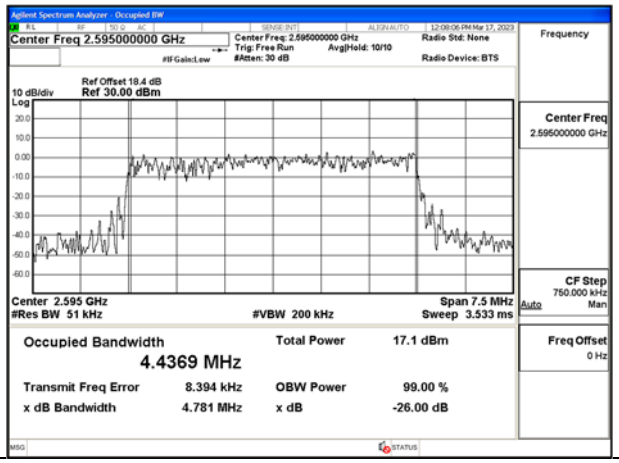

Fig.26

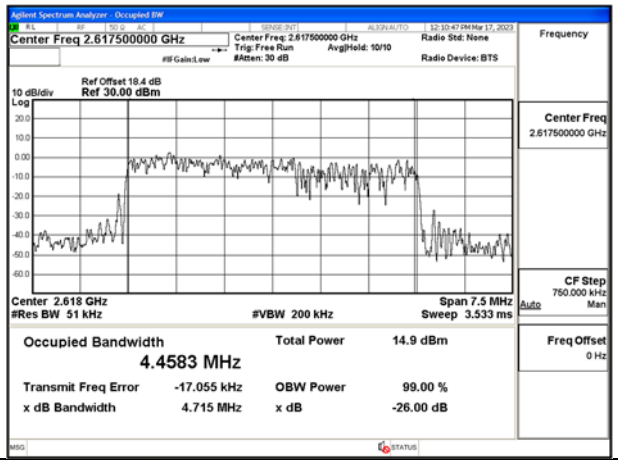

Fig.27

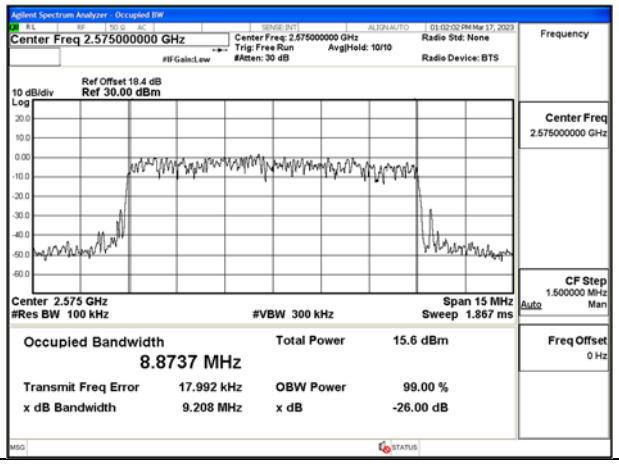

Fig.28

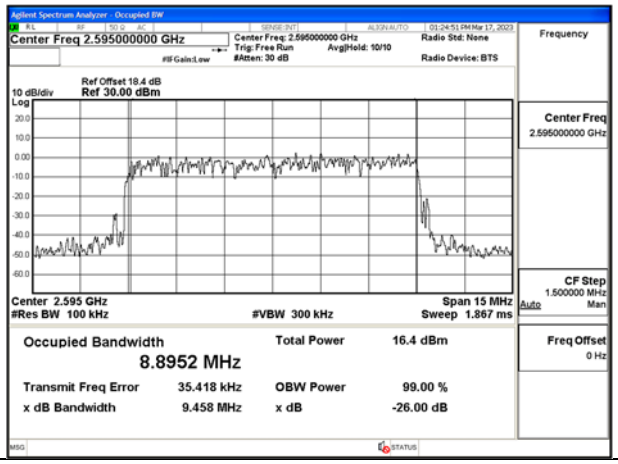

Fig.29

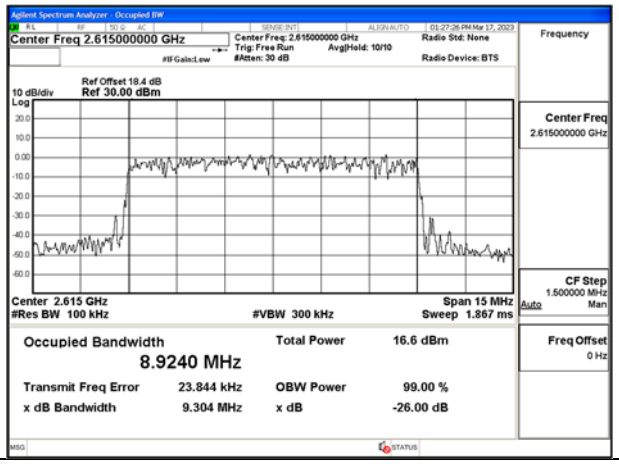

Fig.30

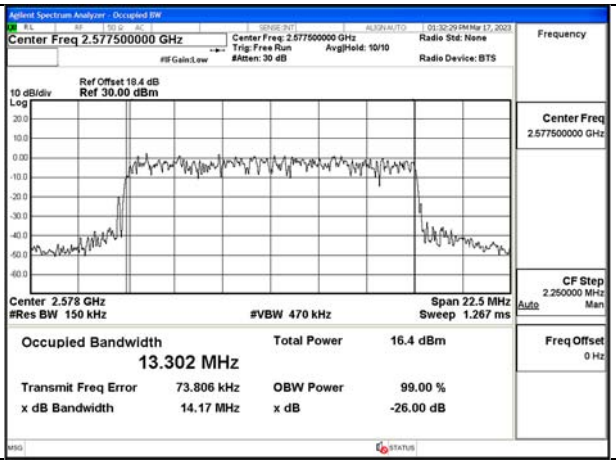

Fig.31

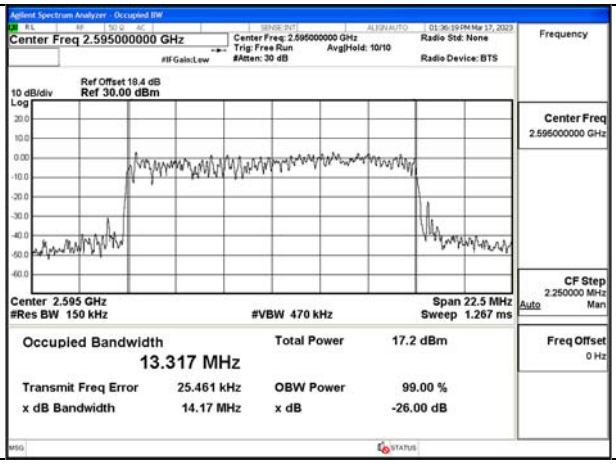

Fig.32

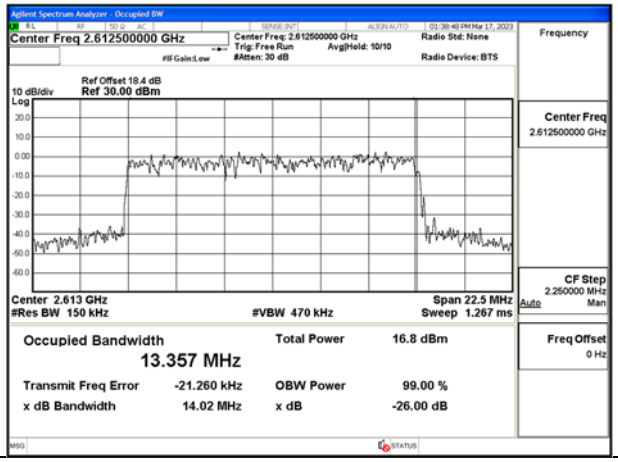

Fig.33

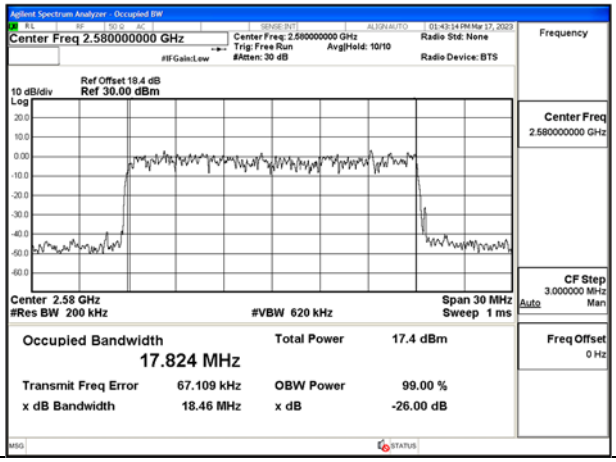

Fig.34

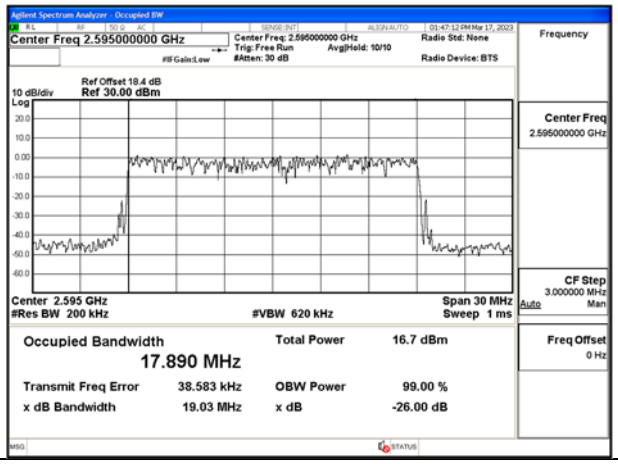

Fig.35

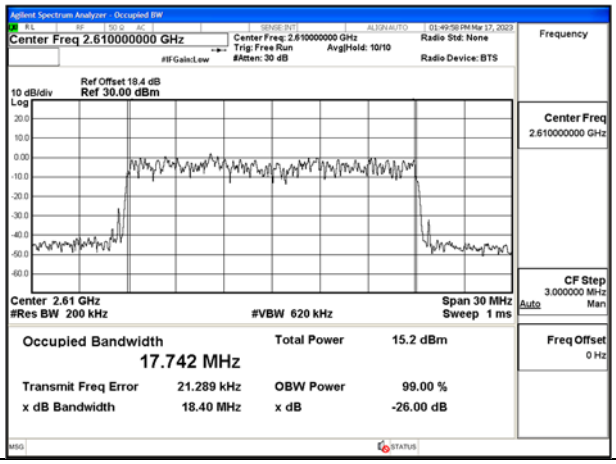

Fig.36

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	4.847	Fig.1
38	QPSK	2595	38000	5	25	0	4.811	Fig.2
38	QPSK	2617.5	38225	5	25	0	4.661	Fig.3
38	QPSK	2575	37800	10	50	0	9.533	Fig.4
38	QPSK	2595	38000	10	50	0	9.469	Fig.5
38	QPSK	2615	38200	10	50	0	9.260	Fig.6
38	QPSK	2577.5	37825	15	75	0	13.842	Fig.7
38	QPSK	2595	38000	15	75	0	13.820	Fig.8
38	QPSK	2612.5	38175	15	75	0	13.901	Fig.9
38	QPSK	2580	37850	20	100	0	18.408	Fig.10
38	QPSK	2595	38000	20	100	0	18.859	Fig.11
38	QPSK	2610	38150	20	100	0	18.402	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	4.730	Fig.13
38	16QAM	2595	38000	5	25	0	4.727	Fig.14
38	16QAM	2617.5	38225	5	25	0	4.811	Fig.15
38	16QAM	2575	37800	10	50	0	9.278	Fig.16
38	16QAM	2595	38000	10	50	0	9.431	Fig.17
38	16QAM	2615	38200	10	50	0	9.245	Fig.18
38	16QAM	2577.5	37825	15	75	0	13.833	Fig.19
38	16QAM	2595	38000	15	75	0	13.831	Fig.20
38	16QAM	2612.5	38175	15	75	0	13.978	Fig.21
38	16QAM	2580	37850	20	100	0	18.490	Fig.22
38	16QAM	2595	38000	20	100	0	18.466	Fig.23
38	16QAM	2610	38150	20	100	0	18.407	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	4.760	Fig.25
38	64QAM	2595	38000	5	25	0	4.781	Fig.26
38	64QAM	2617.5	38225	5	25	0	4.715	Fig.27
38	64QAM	2575	37800	10	50	0	9.208	Fig.28
38	64QAM	2595	38000	10	50	0	9.458	Fig.29
38	64QAM	2615	38200	10	50	0	9.304	Fig.30
38	64QAM	2577.5	37825	15	75	0	14.174	Fig.31
38	64QAM	2595	38000	15	75	0	14.171	Fig.32
38	64QAM	2612.5	38175	15	75	0	14.017	Fig.33
38	64QAM	2580	37850	20	100	0	18.463	Fig.34
38	64QAM	2595	38000	20	100	0	19.034	Fig.35
38	64QAM	2610	38150	20	100	0	18.405	Fig.36

Test Mode: QPSK

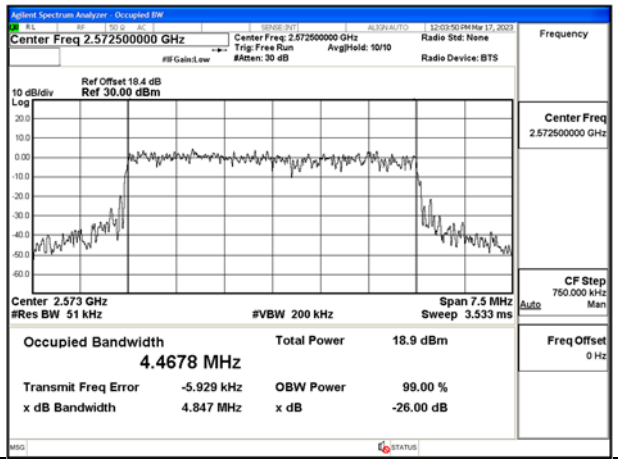

Fig.1

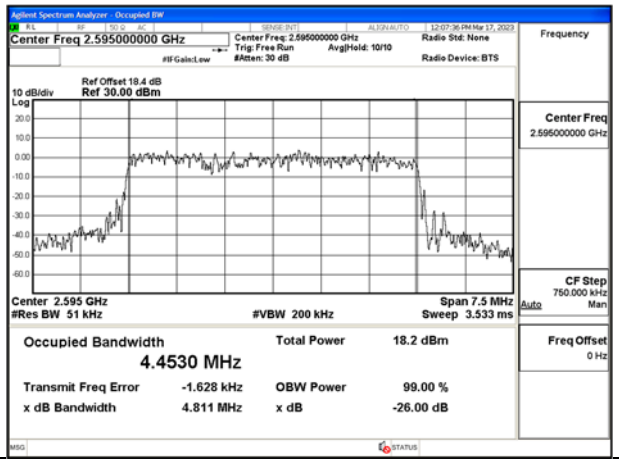

Fig.2

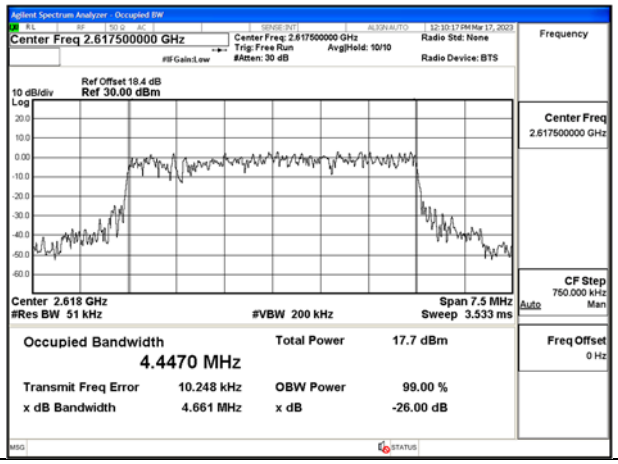

Fig.3

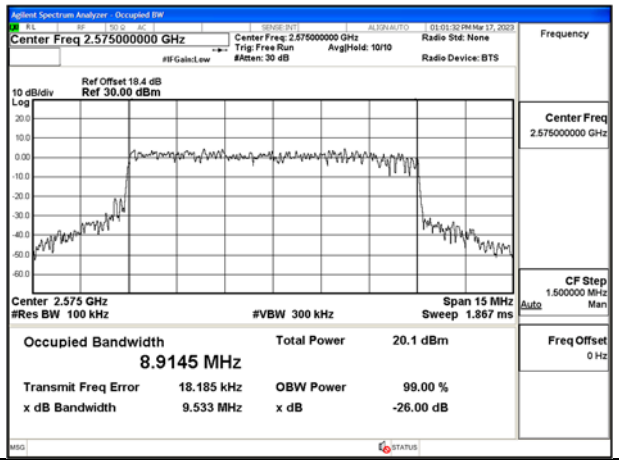

Fig.4

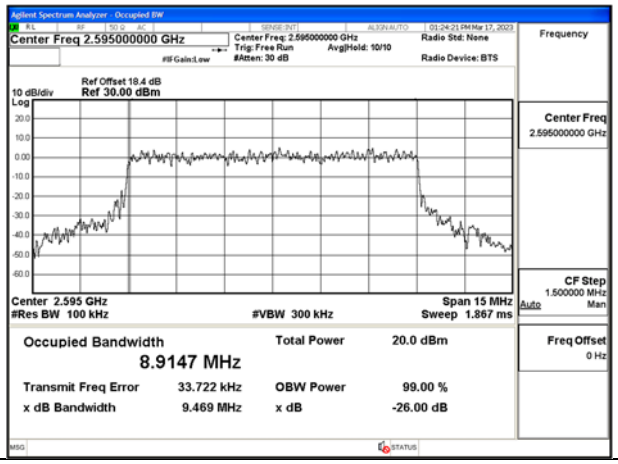

Fig.5

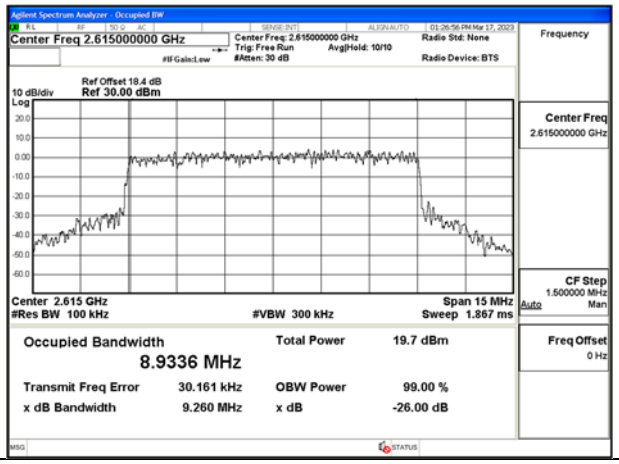

Fig.6

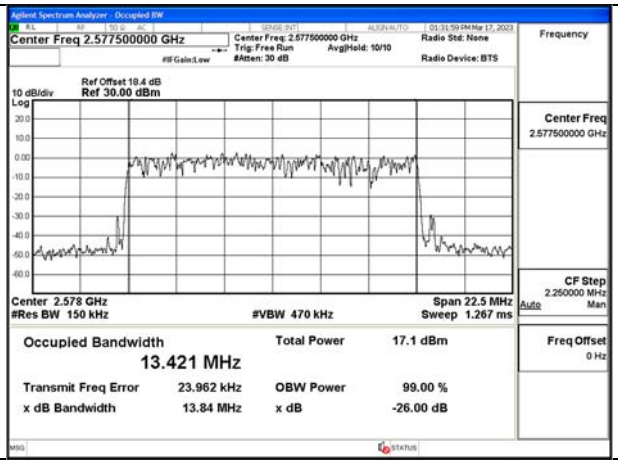

Fig.7

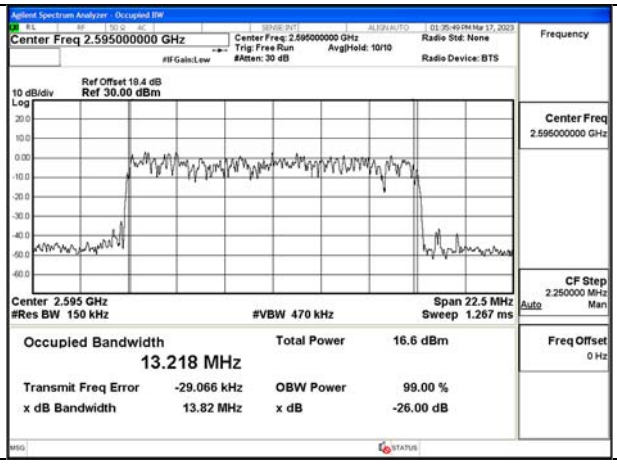

Fig.8

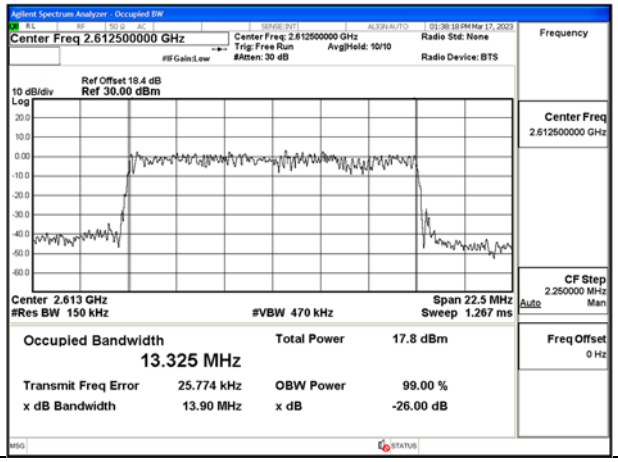

Fig.9

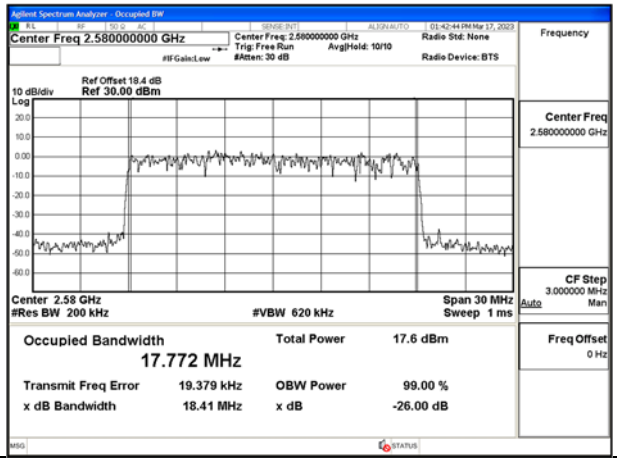

Fig.10

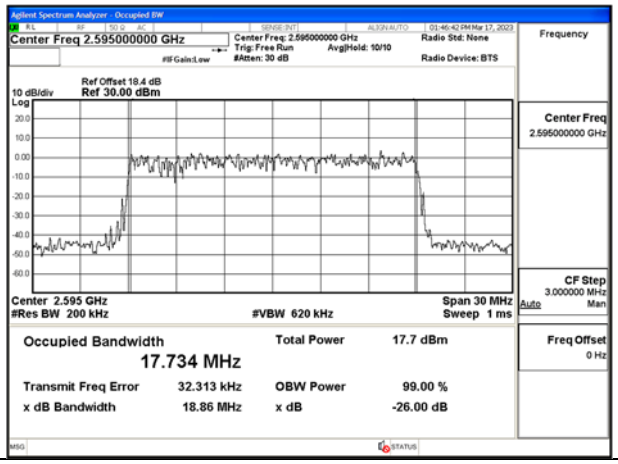

Fig.11

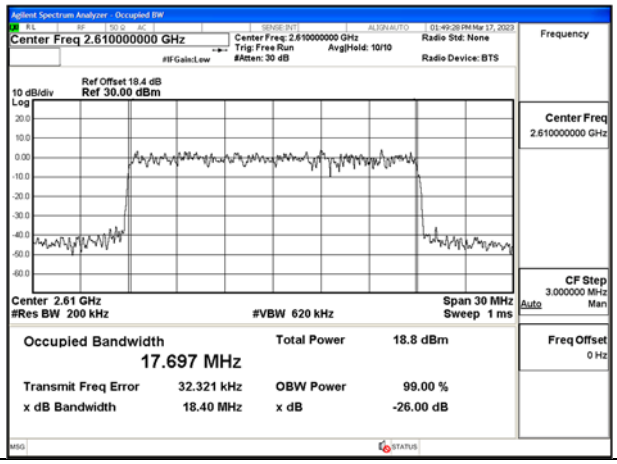

Fig.12

Test Mode: 16QAM

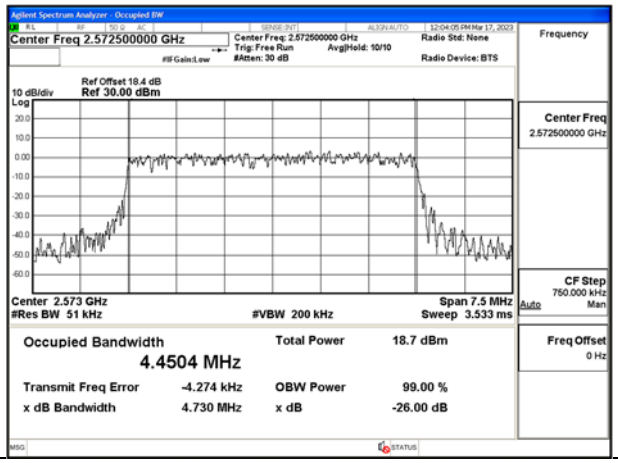

Fig.13

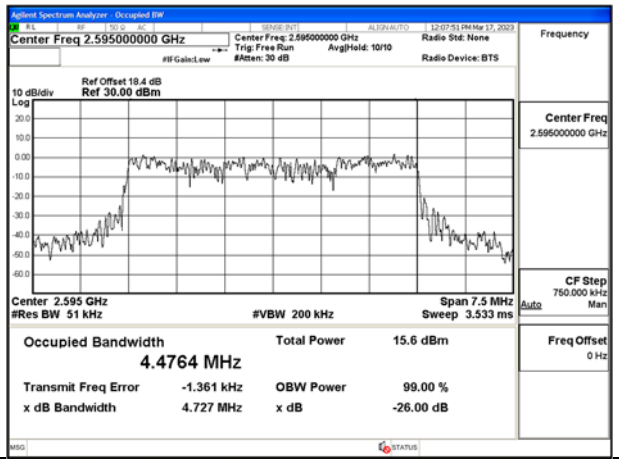

Fig.14

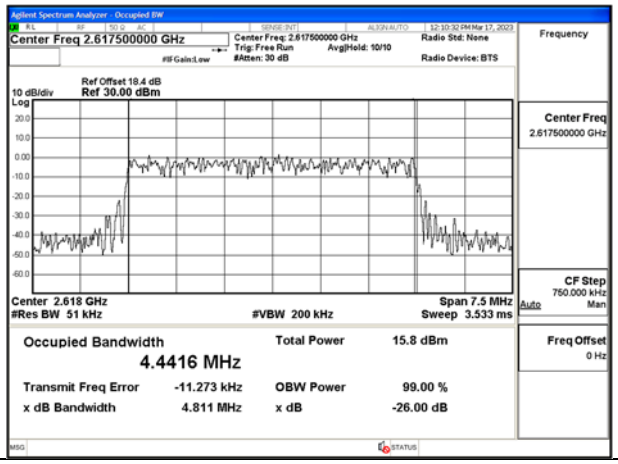

Fig.15

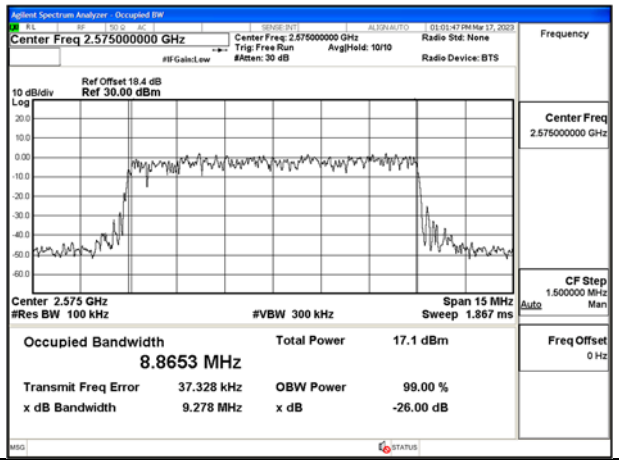

Fig.16

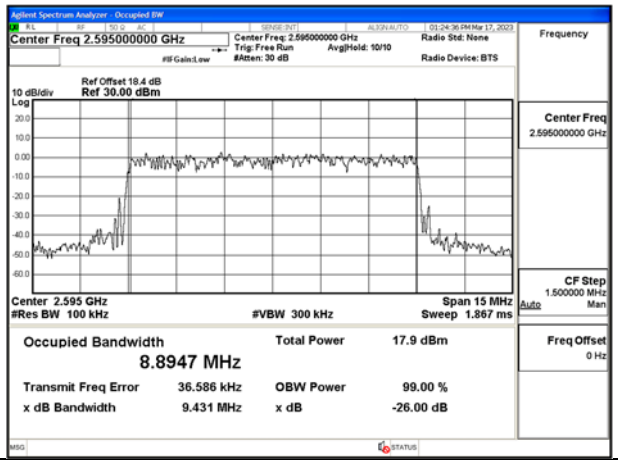

Fig.17

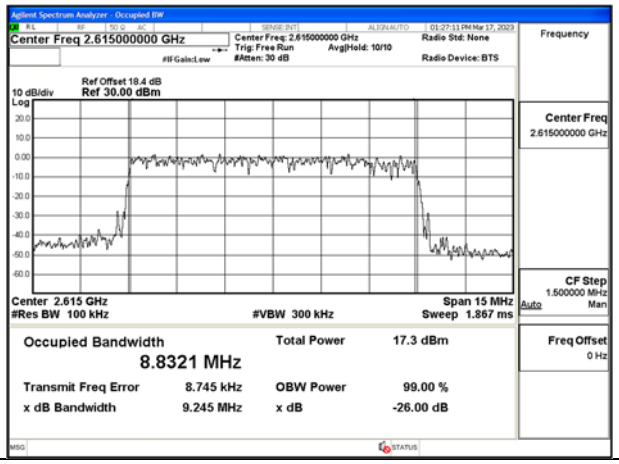

Fig.18

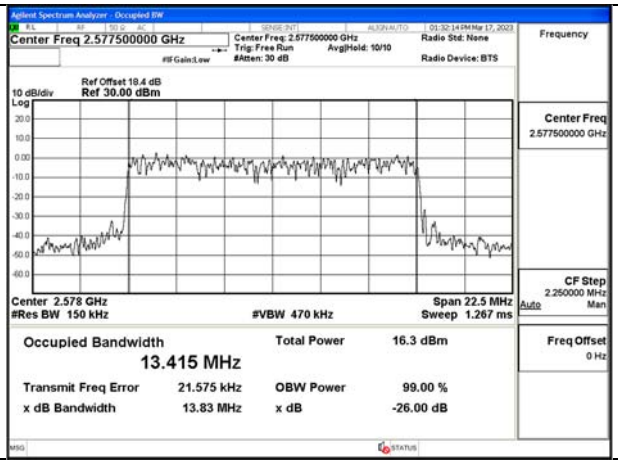

Fig.19

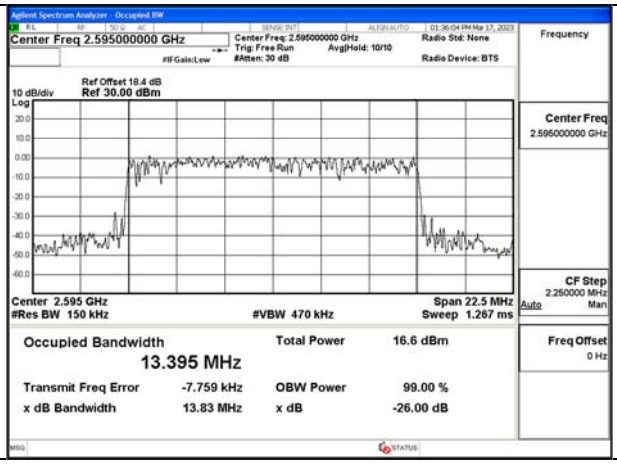

Fig.20

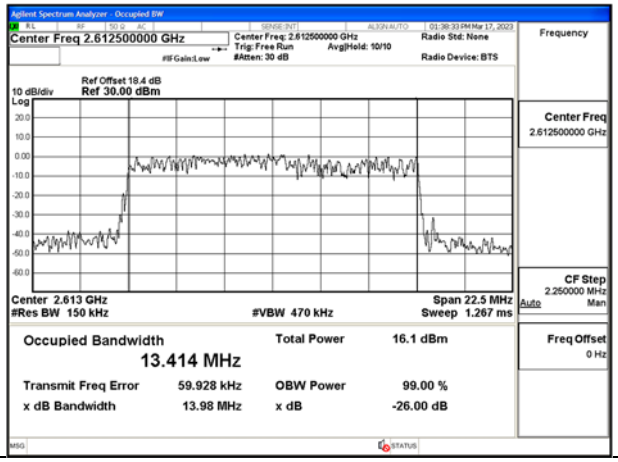

Fig.21

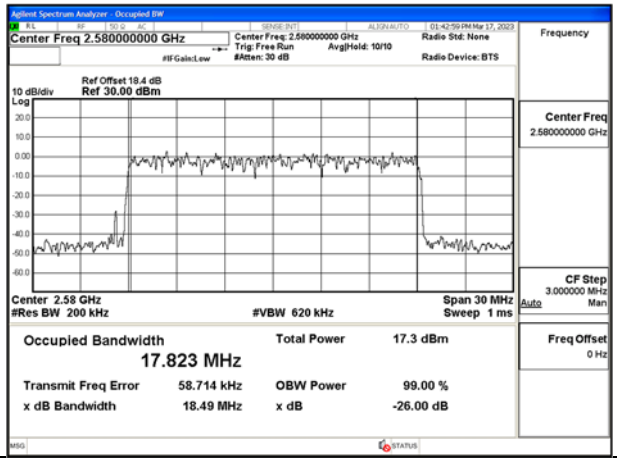

Fig.22

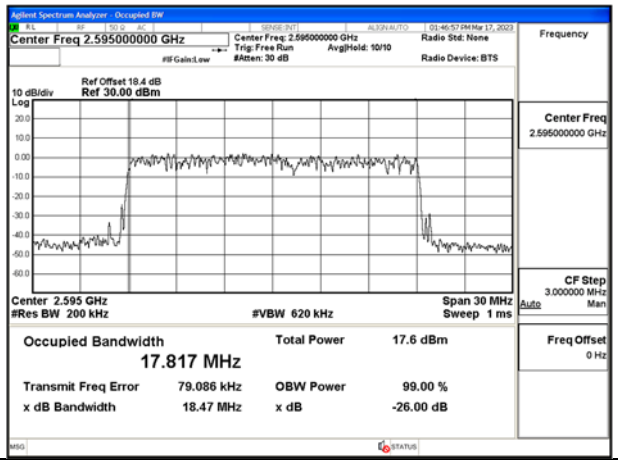

Fig.23

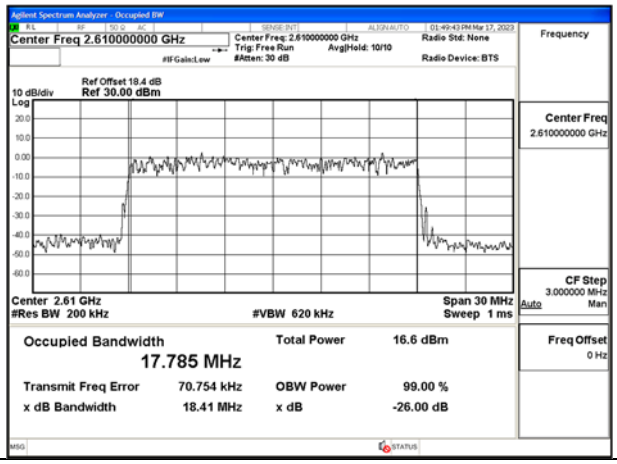

Fig.24

Test Mode: 64QAM

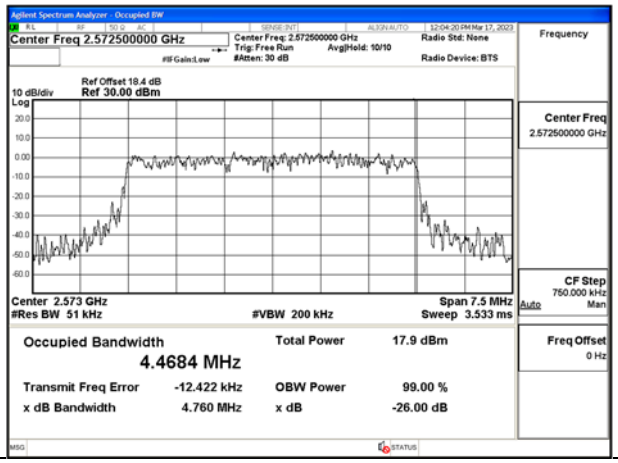

Fig.25

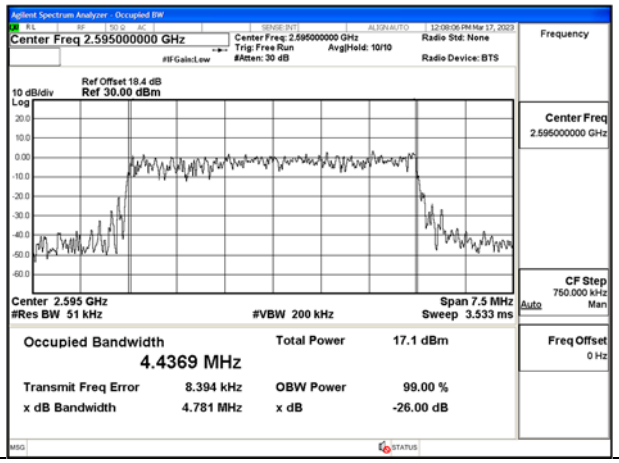

Fig.26

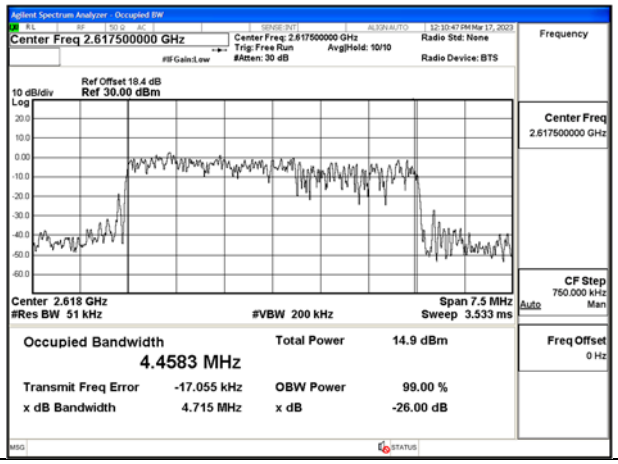

Fig.27

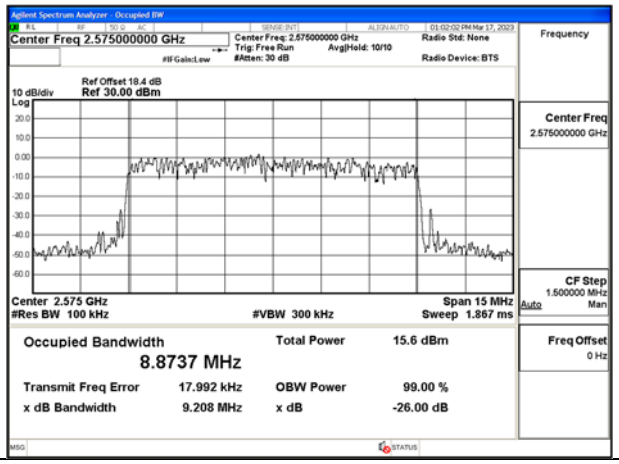

Fig.28

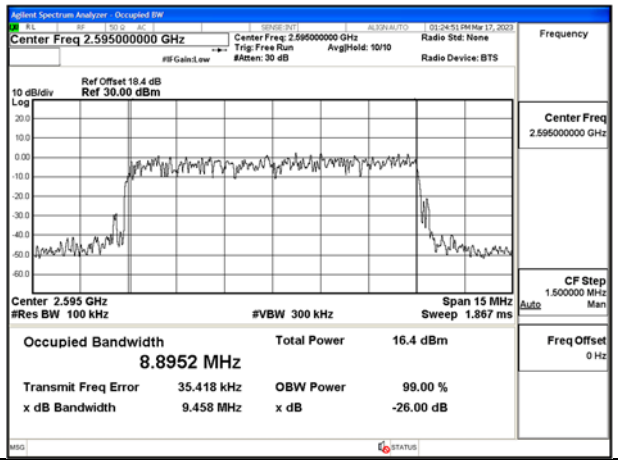

Fig.29

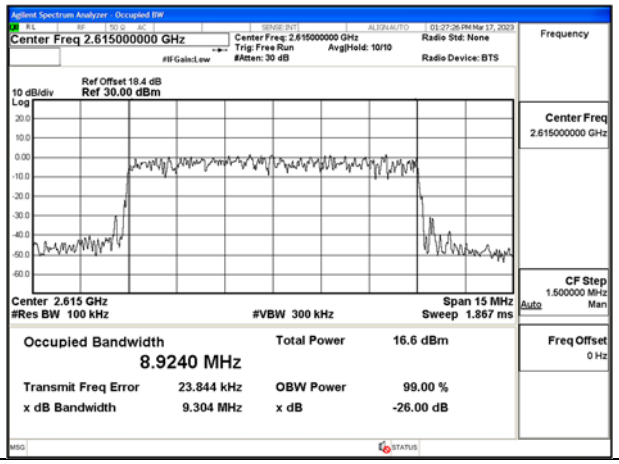

Fig.30

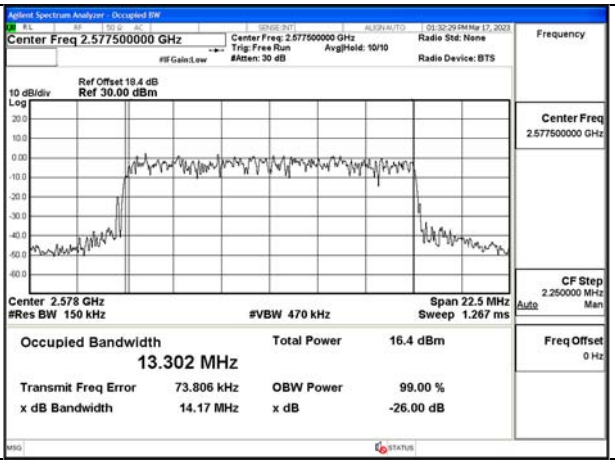

Fig.31

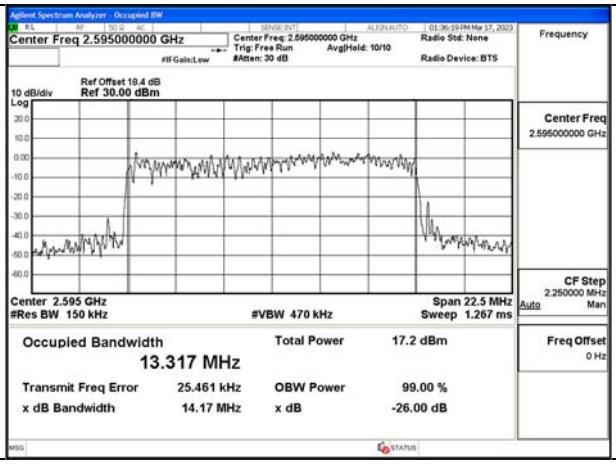

Fig.32

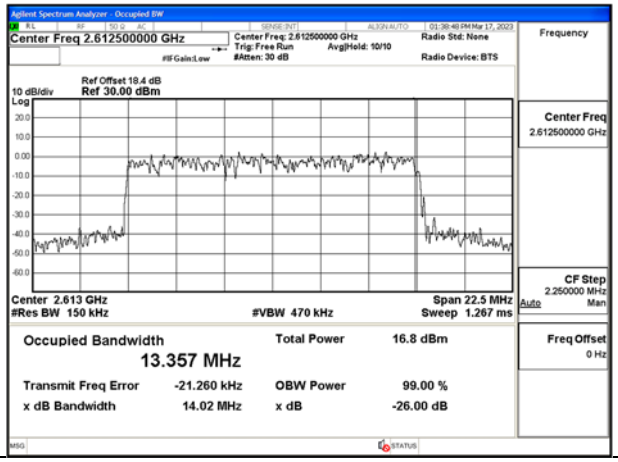

Fig.33

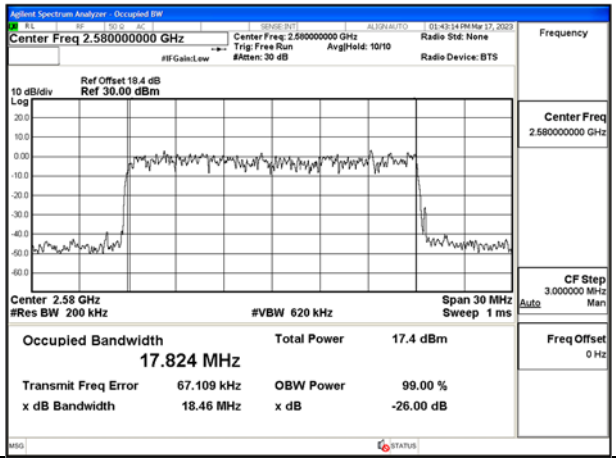

Fig.34

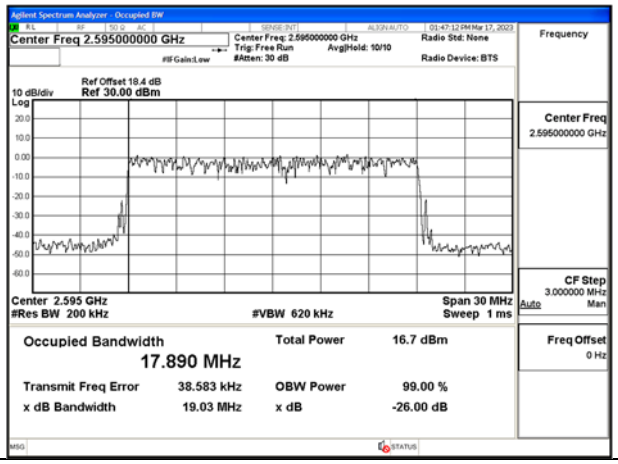

Fig.35

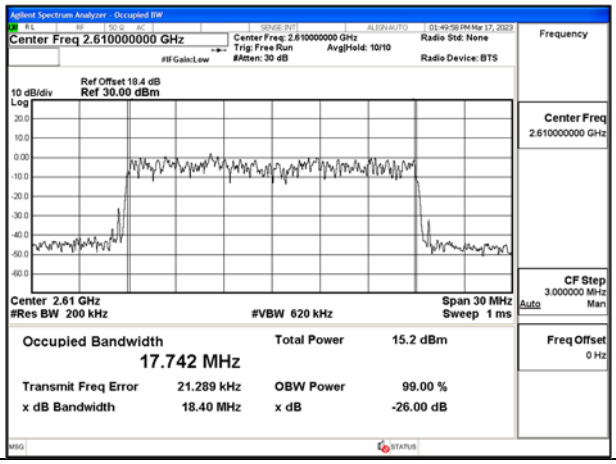

Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
38	2572.5	37775	5	1	24	Fig.1	Fig.2	Fig.3
38	2572.5	37775	5	25	0	Fig.4	Fig.5	Fig.6
38	2595	38000	5	1	24	Fig.7	Fig.8	Fig.9
38	2595	38000	5	25	0	Fig.10	Fig.11	Fig.12
38	2617.5	38225	5	1	24	Fig.13	Fig.14	Fig.15
38	2617.5	38225	5	25	0	Fig.16	Fig.17	Fig.18
38	2575	37800	10	1	49	Fig.19	Fig.20	Fig.21
38	2575	37800	10	50	0	Fig.22	Fig.23	Fig.24
38	2595	38000	10	1	49	Fig.25	Fig.26	Fig.27
38	2595	38000	10	50	0	Fig.28	Fig.29	Fig.30
38	2615	38200	10	1	49	Fig.31	Fig.32	Fig.33
38	2615	38200	10	50	0	Fig.34	Fig.35	Fig.36
38	2577.5	37825	15	1	74	Fig.37	Fig.38	Fig.39
38	2577.5	37825	15	75	0	Fig.40	Fig.41	Fig.42
38	2595	38000	15	1	74	Fig.43	Fig.44	Fig.45
38	2595	38000	15	75	0	Fig.46	Fig.47	Fig.48
38	2612.5	38175	15	1	74	Fig.49	Fig.50	Fig.51
38	2612.5	38175	15	75	0	Fig.52	Fig.53	Fig.54
38	2580	37850	20	1	99	Fig.55	Fig.56	Fig.57
38	2580	37850	20	100	0	Fig.58	Fig.59	Fig.60
38	2595	38000	20	1	99	Fig.61	Fig.62	Fig.63
38	2595	38000	20	100	0	Fig.64	Fig.65	Fig.66
38	2610	38150	20	1	99	Fig.67	Fig.68	Fig.69
38	2610	38150	20	100	0	Fig.70	Fig.71	Fig.72

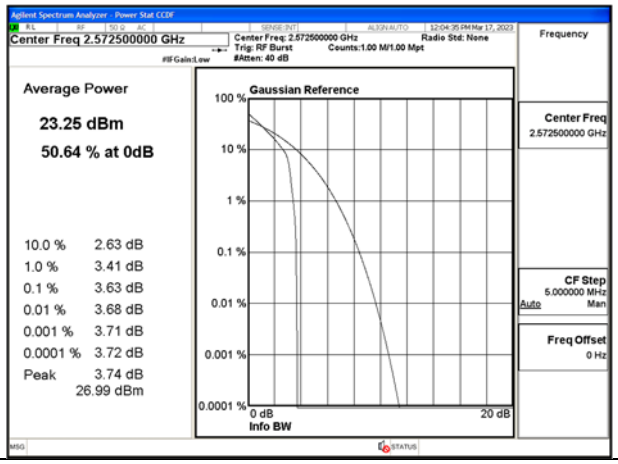

Fig.1

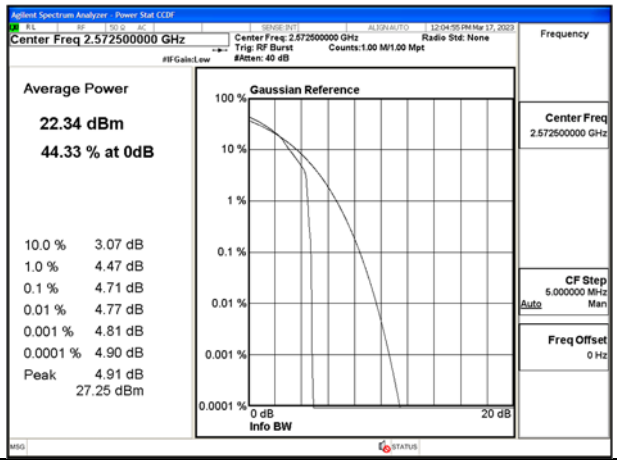

Fig.2

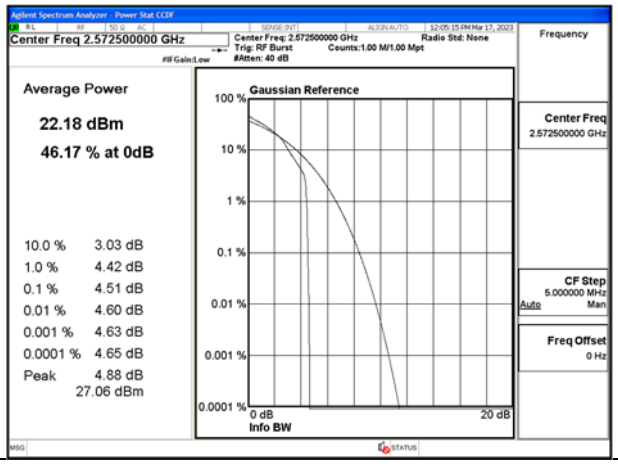

Fig.3

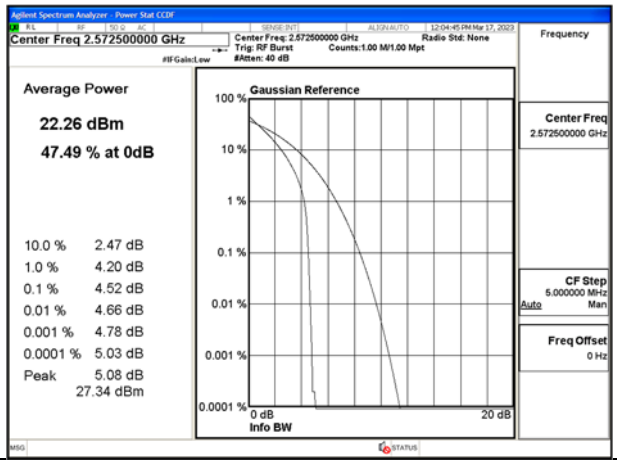

Fig.4

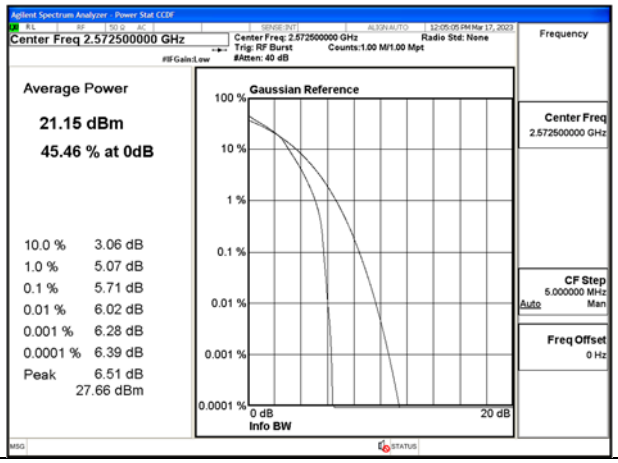

Fig.5

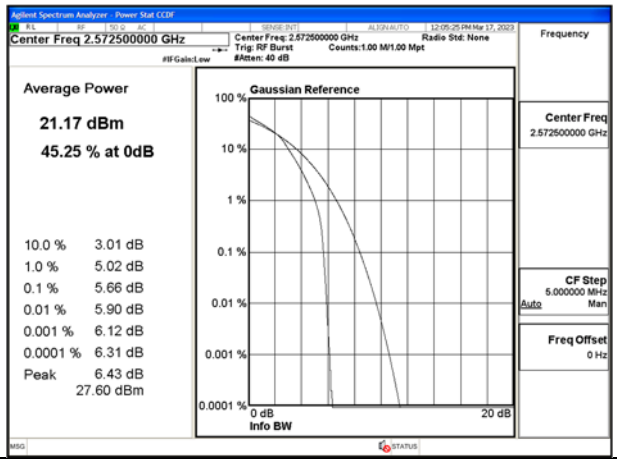

Fig.6

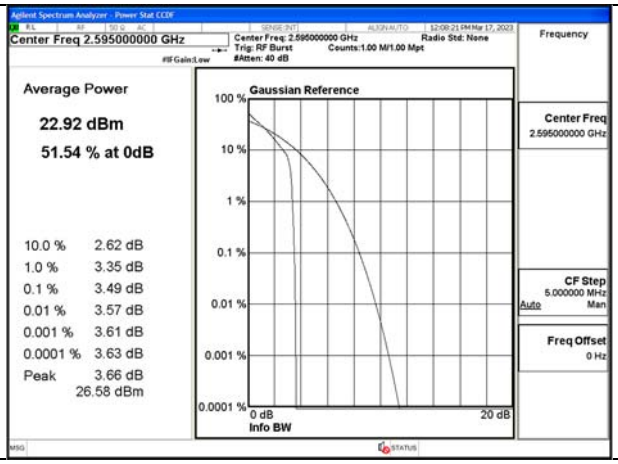

Fig.7

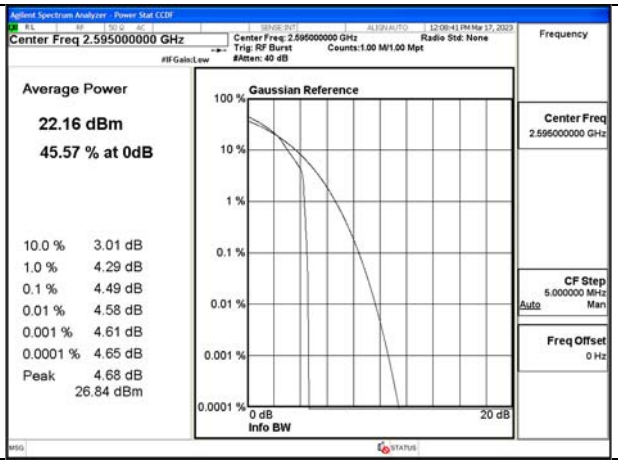

Fig.8

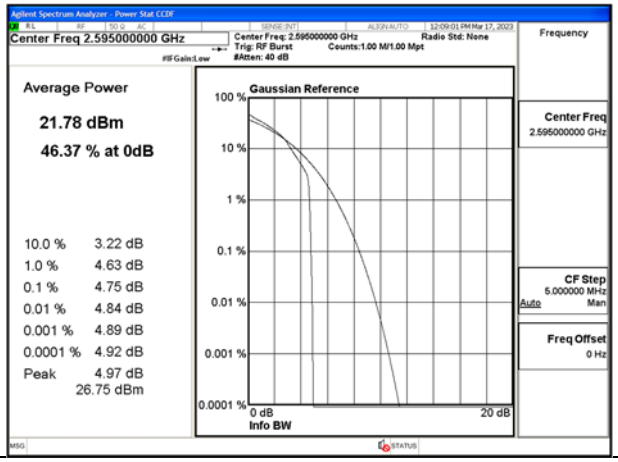

Fig.9

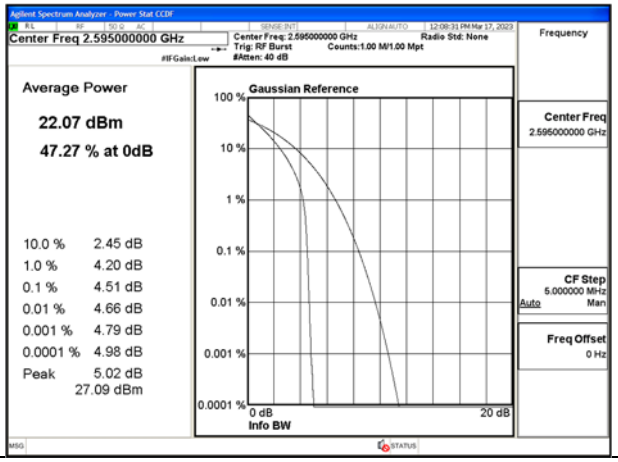

Fig.10

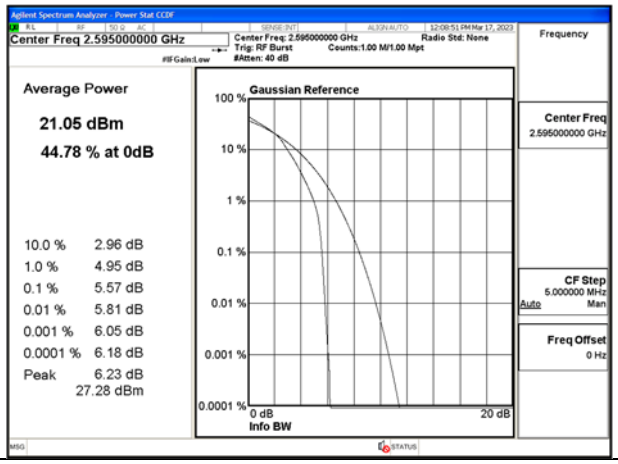

Fig.11

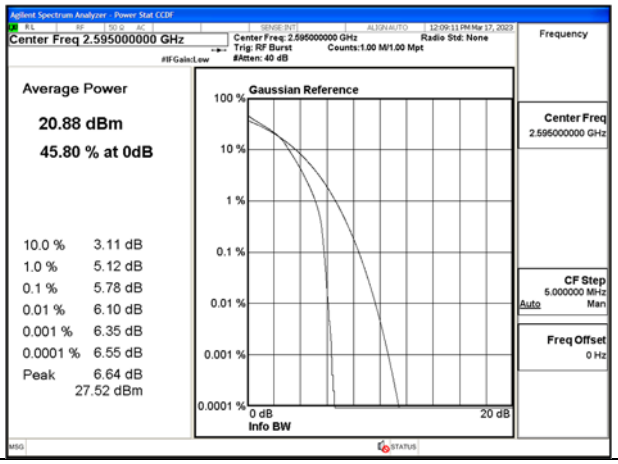

Fig.12

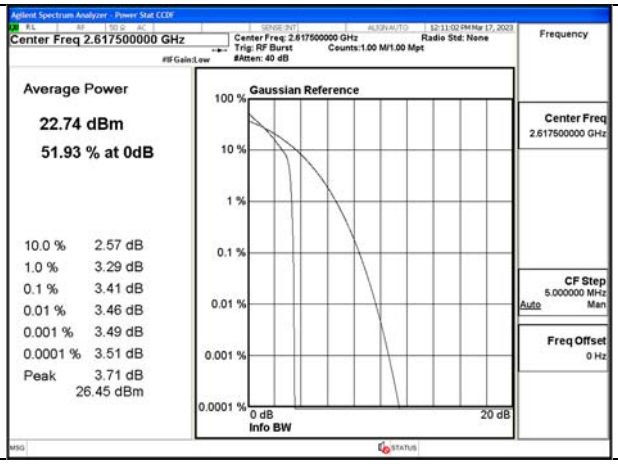

Fig.13

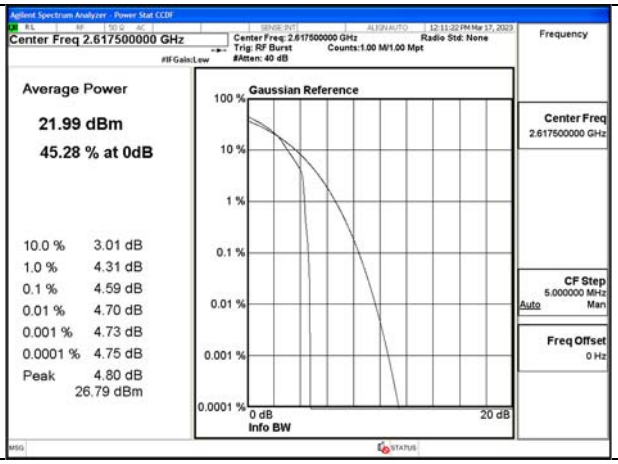

Fig.14

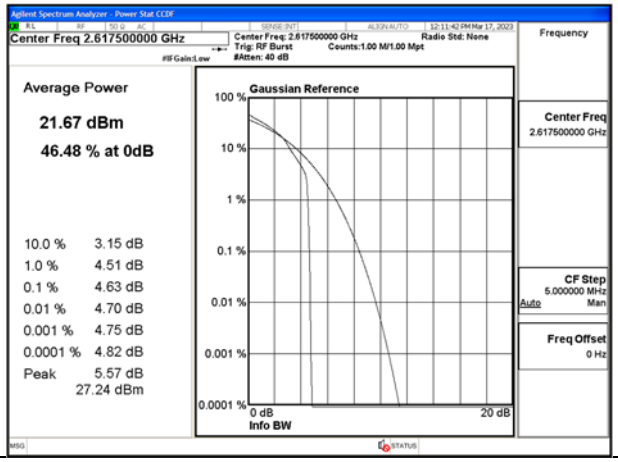

Fig.15

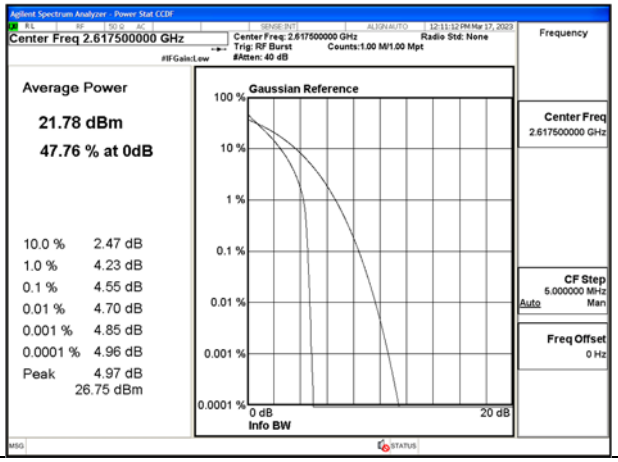

Fig.16

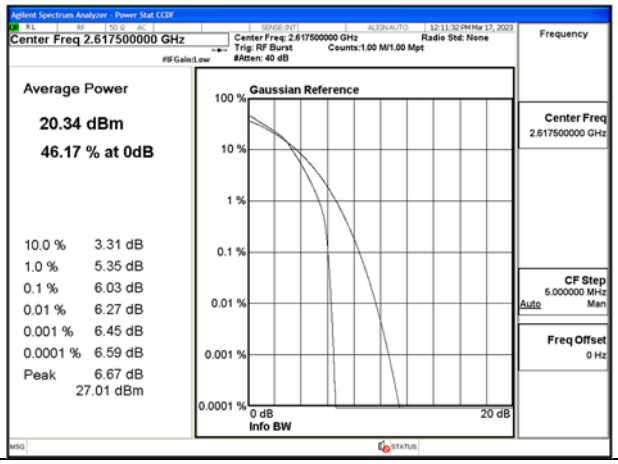

Fig.17

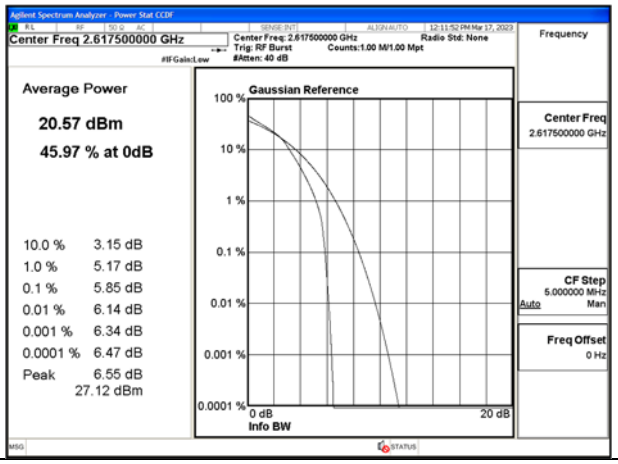

Fig.18

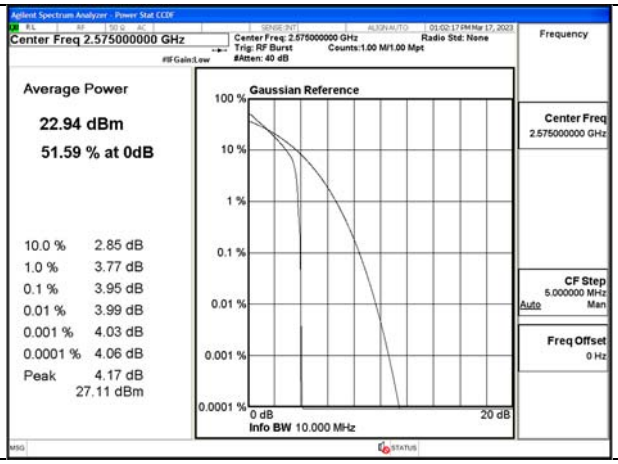

Fig.19

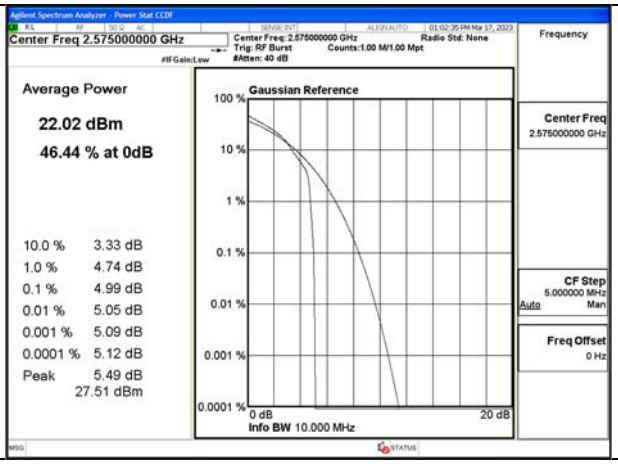

Fig.20

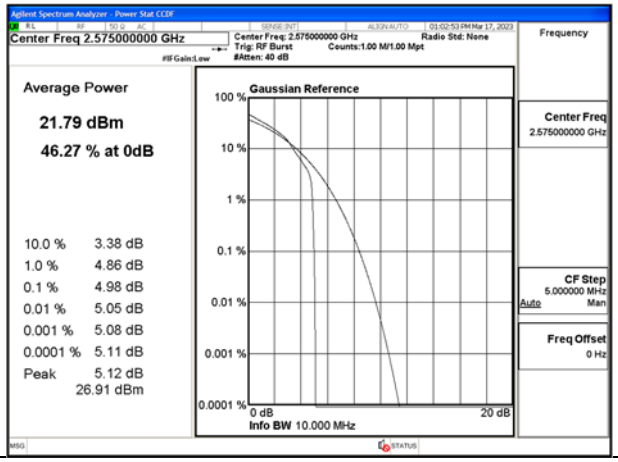

Fig.21

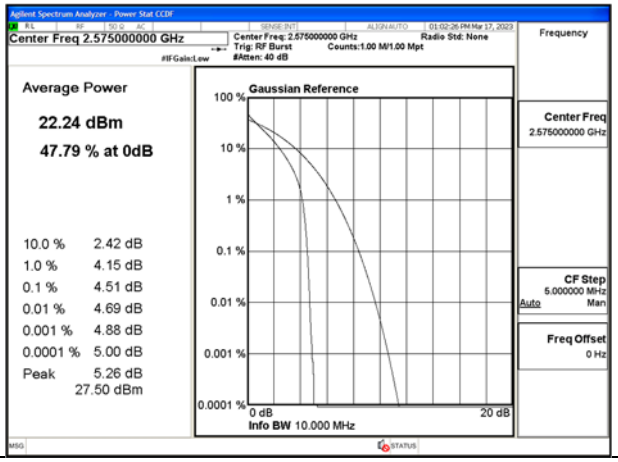

Fig.22

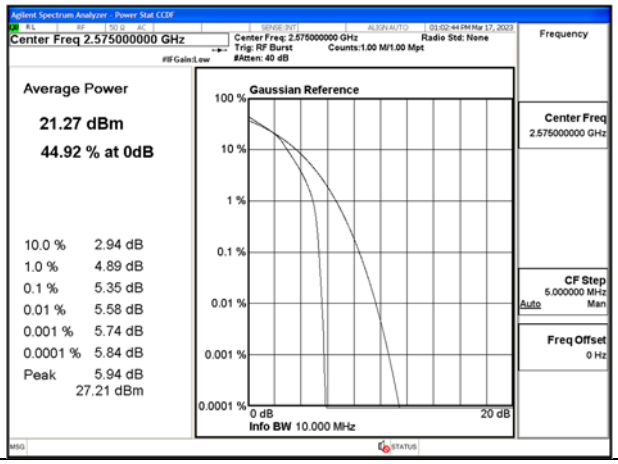

Fig.23

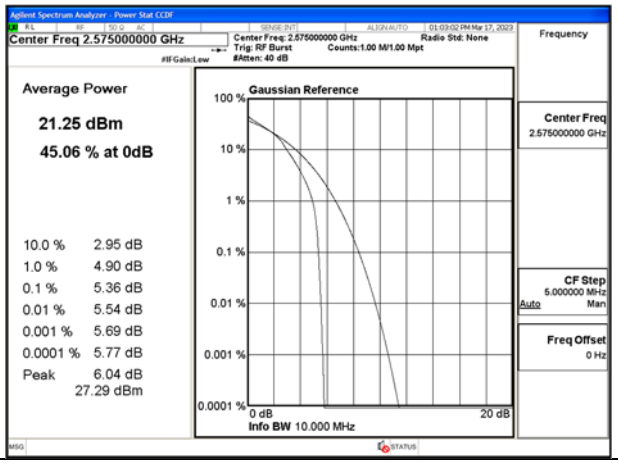

Fig.24

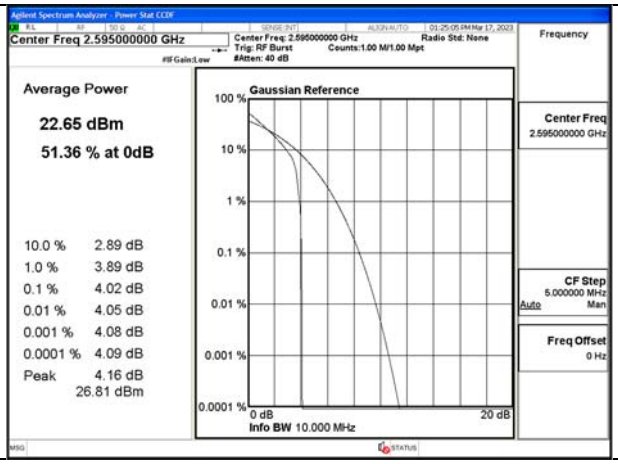

Fig.25

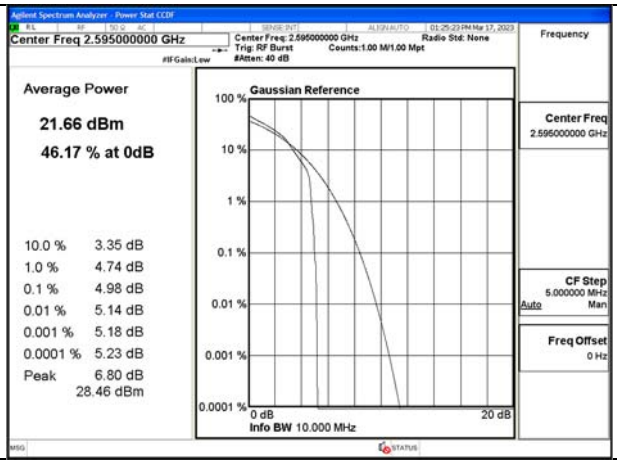

Fig.26

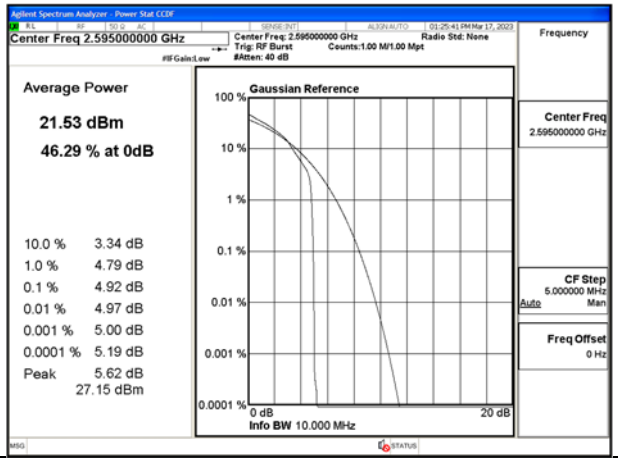

Fig.27

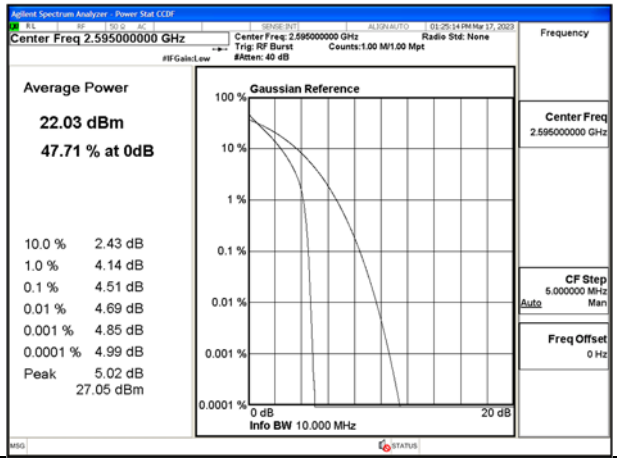

Fig.28

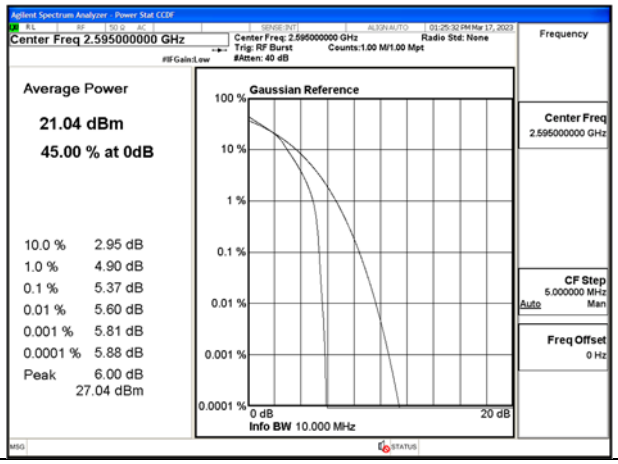

Fig.29

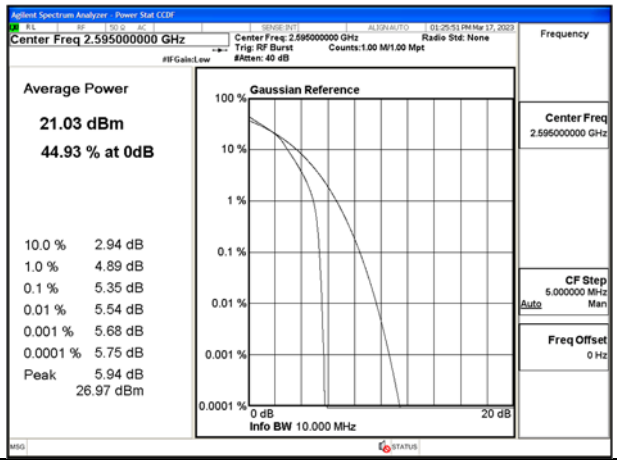

Fig.30

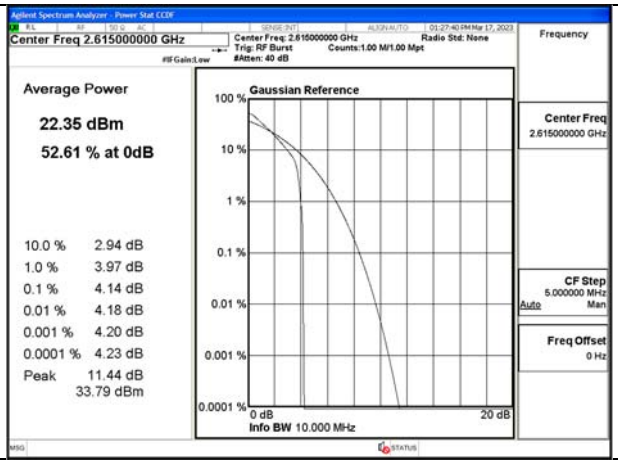

Fig.31

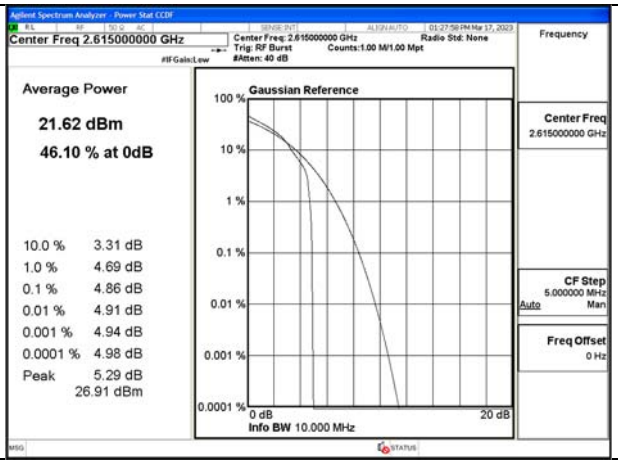

Fig.32

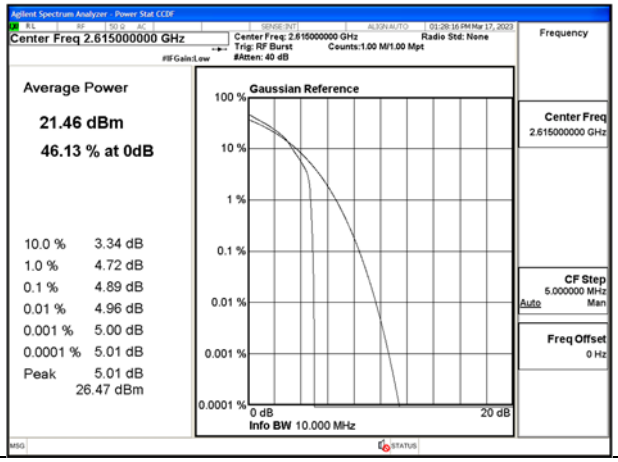

Fig.33

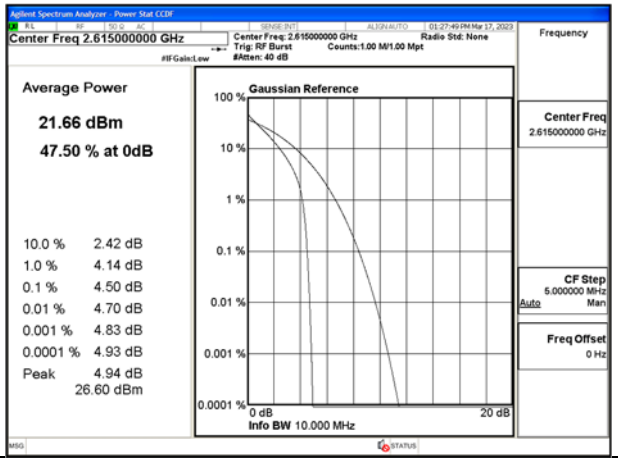

Fig.34

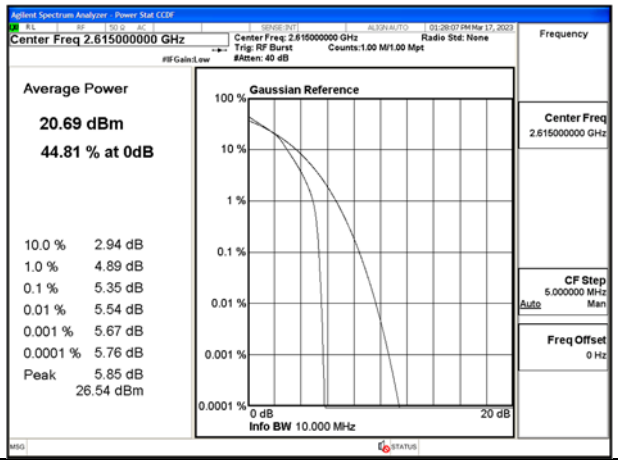

Fig.35

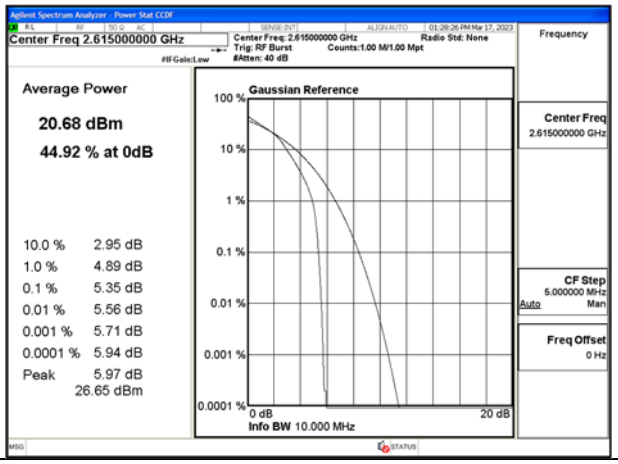

Fig.36