

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 18

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	817.5	23875	5	1	0	22.47
QPSK	817.5	23875	5	1	12	22.69
QPSK	817.5	23875	5	1	24	22.90
QPSK	817.5	23875	5	12	0	21.31
QPSK	817.5	23875	5	12	7	21.53
QPSK	817.5	23875	5	12	13	21.68
QPSK	817.5	23875	5	25	0	21.47
QPSK	822.5	23925	5	1	0	22.87
QPSK	822.5	23925	5	1	12	22.76
QPSK	822.5	23925	5	1	24	22.97
QPSK	822.5	23925	5	12	0	21.82
QPSK	822.5	23925	5	12	7	21.84
QPSK	822.5	23925	5	12	13	21.85
QPSK	822.5	23925	5	25	0	21.84
QPSK	827.5	23975	5	1	0	23.03
QPSK	827.5	23975	5	1	12	22.95
QPSK	827.5	23975	5	1	24	22.96
QPSK	827.5	23975	5	12	0	21.94
QPSK	827.5	23975	5	12	7	21.89
QPSK	827.5	23975	5	12	13	21.91
QPSK	827.5	23975	5	25	0	21.94

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	817.5	23875	5	1	0	21.25
16QAM	817.5	23875	5	1	12	21.62
16QAM	817.5	23875	5	1	24	22.00
16QAM	817.5	23875	5	12	0	20.37
16QAM	817.5	23875	5	12	7	20.56
16QAM	817.5	23875	5	12	13	20.64
16QAM	817.5	23875	5	25	0	20.50
16QAM	822.5	23925	5	1	0	22.20
16QAM	822.5	23925	5	1	12	21.87
16QAM	822.5	23925	5	1	24	22.16
16QAM	822.5	23925	5	12	0	20.85
16QAM	822.5	23925	5	12	7	20.83
16QAM	822.5	23925	5	12	13	20.94
16QAM	822.5	23925	5	25	0	20.89
16QAM	827.5	23975	5	1	0	22.19
16QAM	827.5	23975	5	1	12	21.89
16QAM	827.5	23975	5	1	24	21.96
16QAM	827.5	23975	5	12	0	20.99
16QAM	827.5	23975	5	12	7	20.98
16QAM	827.5	23975	5	12	13	21.11
16QAM	827.5	23975	5	25	0	20.97
64QAM	817.5	23875	5	1	0	20.90
64QAM	817.5	23875	5	1	12	21.78
64QAM	817.5	23875	5	1	24	21.59
64QAM	817.5	23875	5	12	0	20.31
64QAM	817.5	23875	5	12	7	20.52
64QAM	817.5	23875	5	12	13	20.67
64QAM	817.5	23875	5	25	0	20.48
64QAM	822.5	23925	5	1	0	21.33
64QAM	822.5	23925	5	1	12	21.89
64QAM	822.5	23925	5	1	24	22.09
64QAM	822.5	23925	5	12	0	20.80
64QAM	822.5	23925	5	12	7	20.91
64QAM	822.5	23925	5	12	13	20.85
64QAM	822.5	23925	5	25	0	20.86
64QAM	827.5	23975	5	1	0	21.99
64QAM	827.5	23975	5	1	12	21.71
64QAM	827.5	23975	5	1	24	22.21
64QAM	827.5	23975	5	12	0	20.91
64QAM	827.5	23975	5	12	7	20.97
64QAM	827.5	23975	5	12	13	20.93
64QAM	827.5	23975	5	25	0	21.04

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	820	23900	10	1	0	22.49
QPSK	820	23900	10	1	25	23.00
QPSK	820	23900	10	1	49	23.14
QPSK	820	23900	10	25	0	21.62
QPSK	820	23900	10	25	12	21.88
QPSK	820	23900	10	25	25	21.96
QPSK	820	23900	10	50	0	21.78
QPSK	822.5	23925	10	1	0	22.57
QPSK	822.5	23925	10	1	25	22.76
QPSK	822.5	23925	10	1	49	23.02
QPSK	822.5	23925	10	25	0	21.80
QPSK	822.5	23925	10	25	12	21.91
QPSK	822.5	23925	10	25	25	21.96
QPSK	822.5	23925	10	50	0	21.88
QPSK	825	23950	10	1	0	22.82
QPSK	825	23950	10	1	25	22.93
QPSK	825	23950	10	1	49	22.90
QPSK	825	23950	10	25	0	21.88
QPSK	825	23950	10	25	12	21.96
QPSK	825	23950	10	25	25	21.96
QPSK	825	23950	10	50	0	21.92

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	820	23900	10	1	0	21.40
16QAM	820	23900	10	1	25	22.22
16QAM	820	23900	10	1	49	22.16
16QAM	820	23900	10	25	0	20.59
16QAM	820	23900	10	25	12	20.86
16QAM	820	23900	10	25	25	20.93
16QAM	820	23900	10	50	0	20.69
16QAM	822.5	23925	10	1	0	21.83
16QAM	822.5	23925	10	1	25	21.77
16QAM	822.5	23925	10	1	49	22.18
16QAM	822.5	23925	10	25	0	20.85
16QAM	822.5	23925	10	25	12	20.96
16QAM	822.5	23925	10	25	25	21.08
16QAM	822.5	23925	10	50	0	20.87
16QAM	825	23950	10	1	0	22.40
16QAM	825	23950	10	1	25	22.23
16QAM	825	23950	10	1	49	22.31
16QAM	825	23950	10	25	0	20.86
16QAM	825	23950	10	25	12	20.98
16QAM	825	23950	10	25	25	20.99
16QAM	825	23950	10	50	0	20.95
64QAM	820	23900	10	1	0	21.31
64QAM	820	23900	10	1	25	21.95
64QAM	820	23900	10	1	49	21.92
64QAM	820	23900	10	25	0	20.63
64QAM	820	23900	10	25	12	20.83
64QAM	820	23900	10	25	25	20.85
64QAM	820	23900	10	50	0	20.76
64QAM	822.5	23925	10	1	0	21.86
64QAM	822.5	23925	10	1	25	21.78
64QAM	822.5	23925	10	1	49	22.03
64QAM	822.5	23925	10	25	0	20.84
64QAM	822.5	23925	10	25	12	20.93
64QAM	822.5	23925	10	25	25	20.95
64QAM	822.5	23925	10	50	0	20.86
64QAM	825	23950	10	1	0	22.05
64QAM	825	23950	10	1	25	22.00
64QAM	825	23950	10	1	49	22.02
64QAM	825	23950	10	25	0	20.96
64QAM	825	23950	10	25	12	20.97
64QAM	825	23950	10	25	25	21.03
64QAM	825	23950	10	50	0	20.97

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	822.5	23925	15	1	0	23.04
QPSK	822.5	23925	15	1	37	23.57
QPSK	822.5	23925	15	1	74	23.55
QPSK	822.5	23925	15	36	0	22.31
QPSK	822.5	23925	15	36	29	22.60
QPSK	822.5	23925	15	36	30	22.59
QPSK	822.5	23925	15	75	0	22.46

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	822.5	23925	15	1	0	22.02
16QAM	822.5	23925	15	1	37	22.81
16QAM	822.5	23925	15	1	74	22.63
16QAM	822.5	23925	15	36	0	21.19
16QAM	822.5	23925	15	36	29	21.47
16QAM	822.5	23925	15	36	30	21.54
16QAM	822.5	23925	15	75	0	21.40
64QAM	822.5	23925	15	1	0	21.40
64QAM	822.5	23925	15	1	37	22.45
64QAM	822.5	23925	15	1	74	22.56
64QAM	822.5	23925	15	36	0	21.12
64QAM	822.5	23925	15	36	29	21.45
64QAM	822.5	23925	15	36	30	21.42
64QAM	822.5	23925	15	75	0	21.34

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
18	QPSK	817.5	23875	5	25	0	4.465	Fig.1
18	QPSK	822.5	23925	5	25	0	4.476	Fig.2
18	QPSK	827.5	23975	5	25	0	4.472	Fig.3
18	QPSK	820	23900	10	50	0	8.872	Fig.4
18	QPSK	822.5	23925	10	50	0	8.895	Fig.5
18	QPSK	825	23950	10	50	0	8.885	Fig.6
18	QPSK	822.5	23925	15	75	0	13.348	Fig.7
18	QPSK	822.5	23925	15	75	0	13.405	Fig.8
18	QPSK	822.5	23925	15	75	0	13.372	Fig.9

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
18	16QAM	817.5	23875	5	25	0	4.456	Fig.10
18	16QAM	822.5	23925	5	25	0	4.488	Fig.11
18	16QAM	827.5	23975	5	25	0	4.452	Fig.12
18	16QAM	820	23900	10	50	0	8.893	Fig.13
18	16QAM	822.5	23925	10	50	0	8.936	Fig.14
18	16QAM	825	23950	10	50	0	8.928	Fig.15
18	16QAM	822.5	23925	15	75	0	13.362	Fig.16
18	16QAM	822.5	23925	15	75	0	13.384	Fig.17
18	16QAM	822.5	23925	15	75	0	13.384	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
18	64QAM	817.5	23875	5	25	0	4.457	Fig.19
18	64QAM	822.5	23925	5	25	0	4.451	Fig.20
18	64QAM	827.5	23975	5	25	0	4.473	Fig.21
18	64QAM	820	23900	10	50	0	8.924	Fig.22
18	64QAM	822.5	23925	10	50	0	8.937	Fig.23
18	64QAM	825	23950	10	50	0	8.941	Fig.24
18	64QAM	822.5	23925	15	75	0	13.356	Fig.25
18	64QAM	822.5	23925	15	75	0	13.406	Fig.26
18	64QAM	822.5	23925	15	75	0	13.378	Fig.27

Test Mode: QPSK

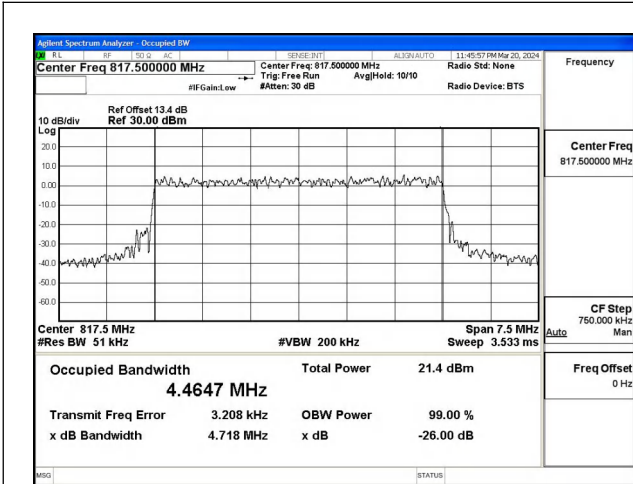


Fig.1

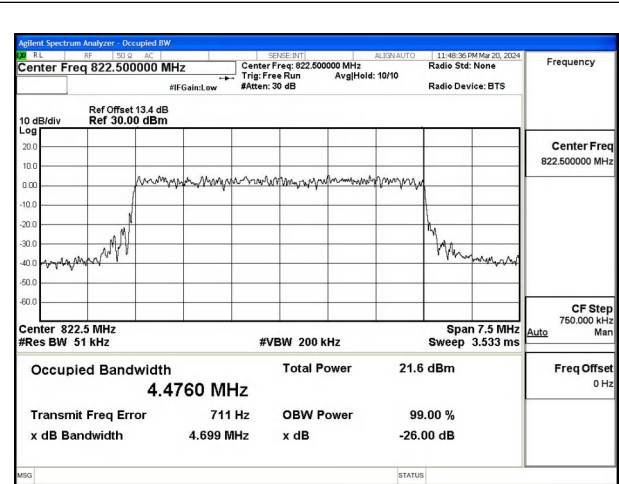


Fig.2

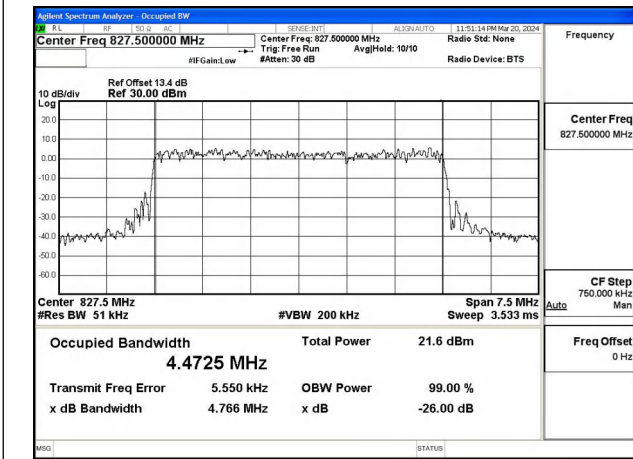


Fig.3

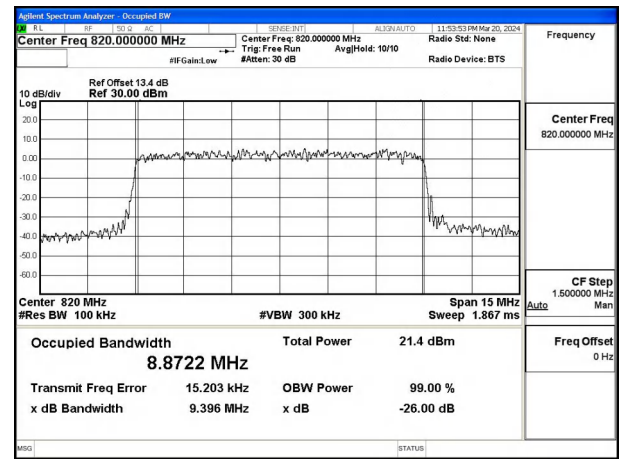


Fig.4

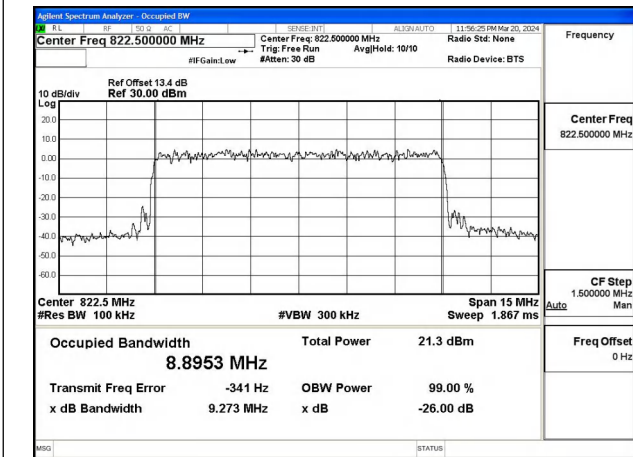


Fig.5

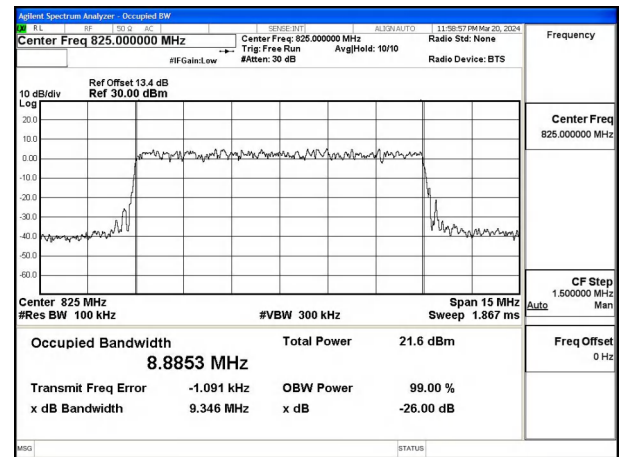


Fig.6

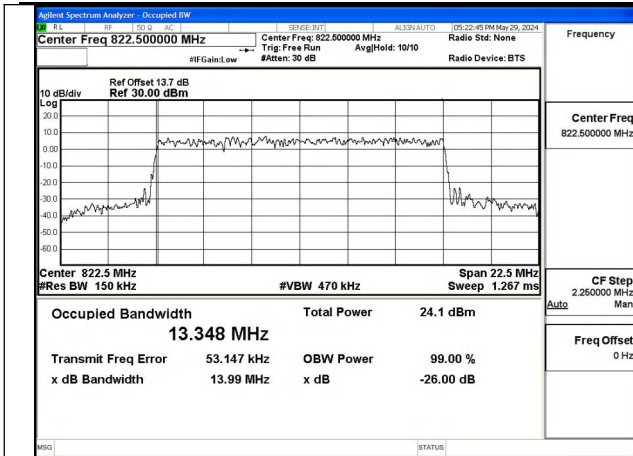


Fig.7

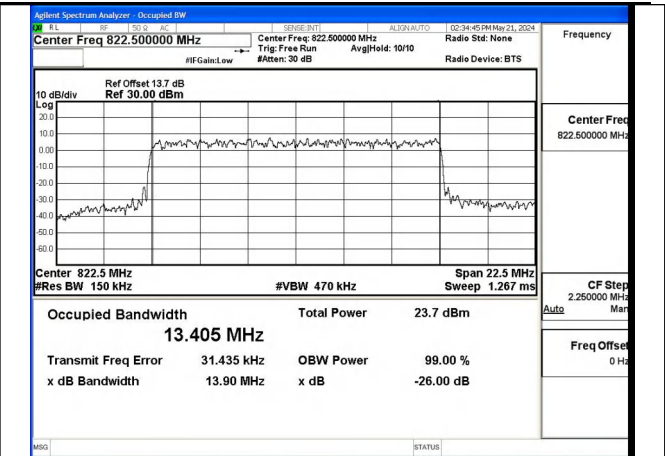


Fig.8

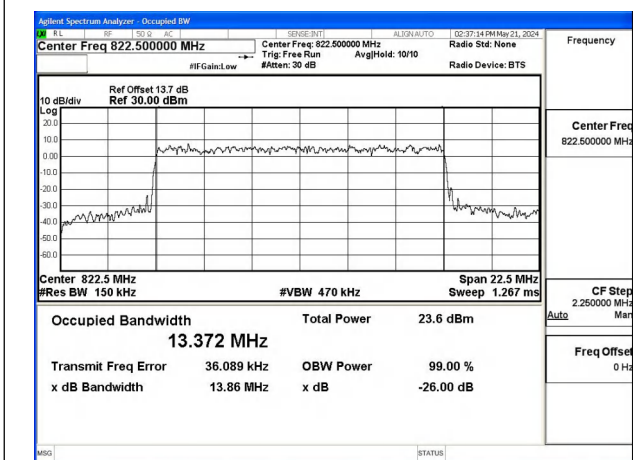


Fig.9

Test Mode: 16QAM

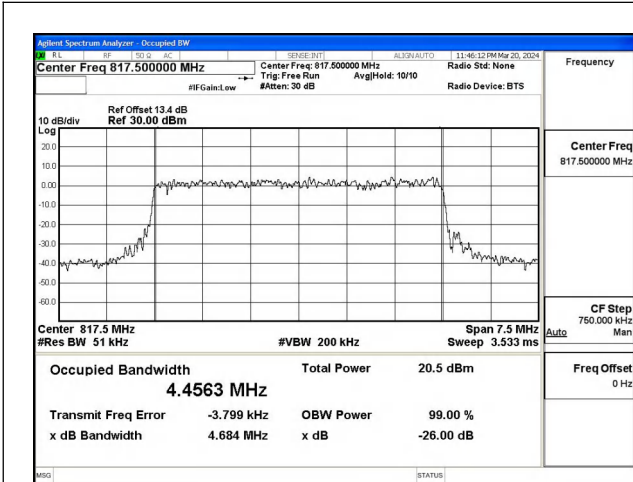


Fig.10

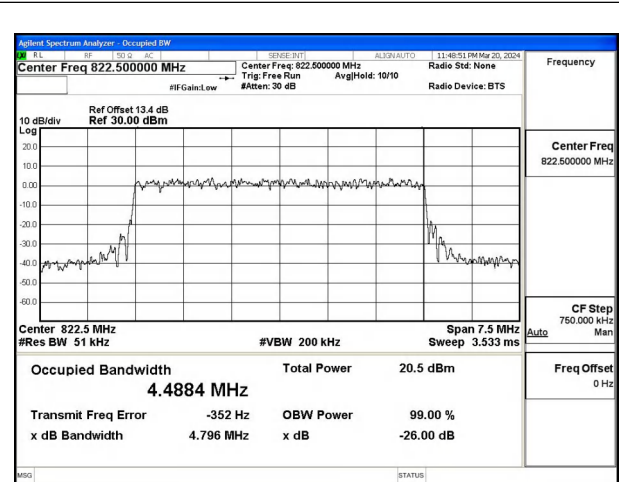


Fig.11

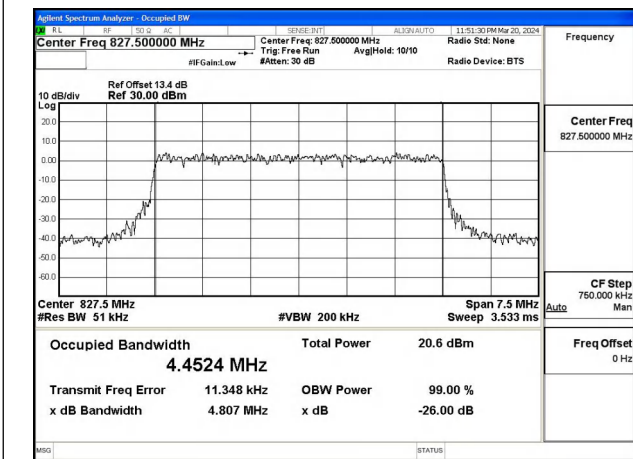


Fig.12

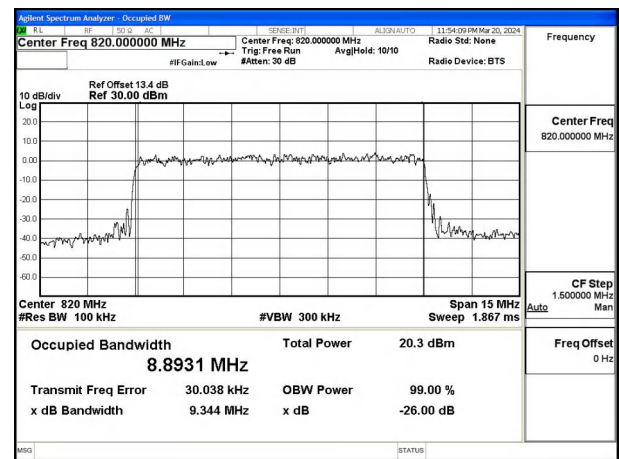


Fig.13

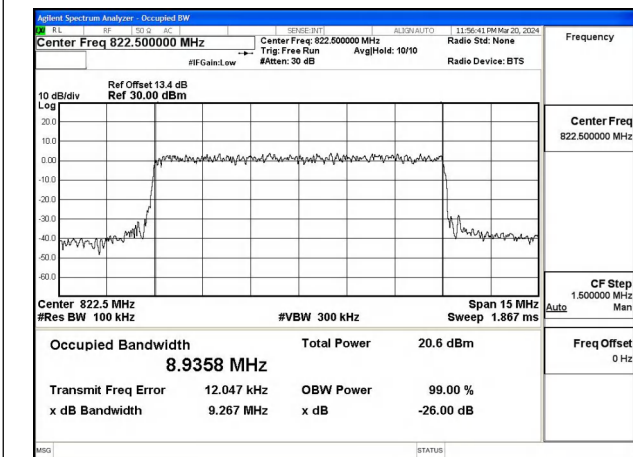


Fig.14

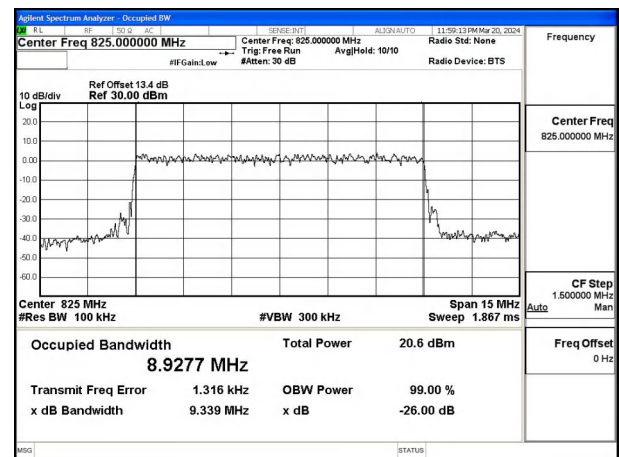


Fig.15

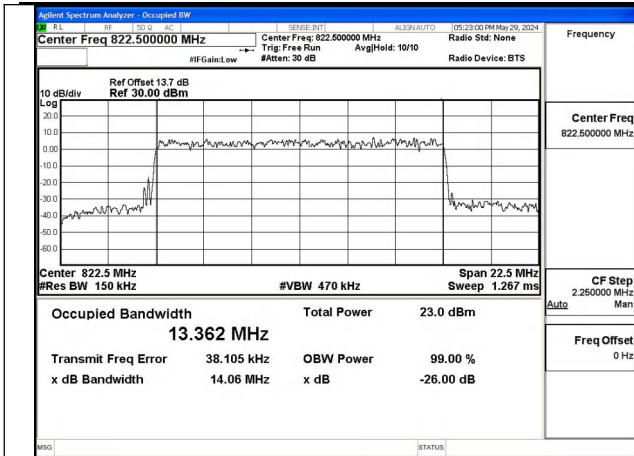


Fig.16

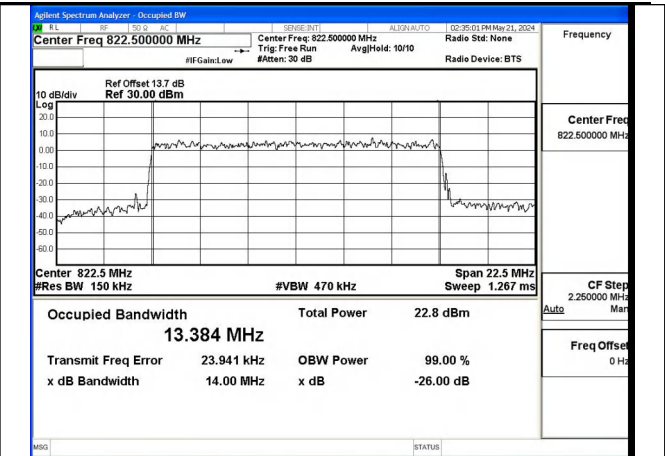


Fig.17

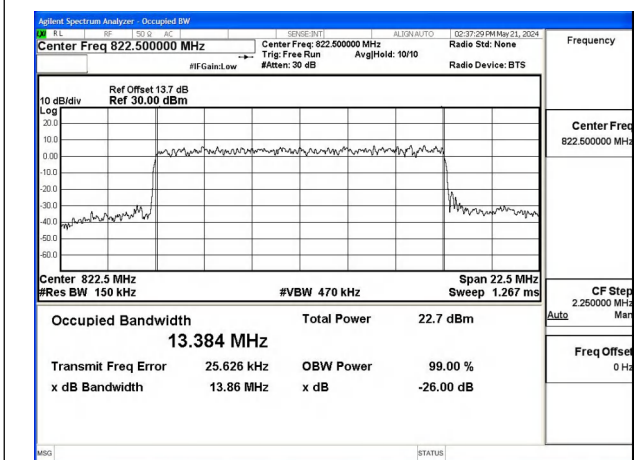


Fig.18

Test Mode: 64QAM

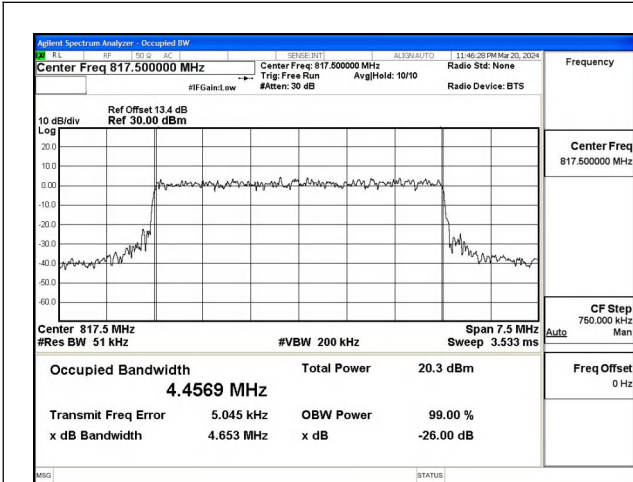


Fig.19

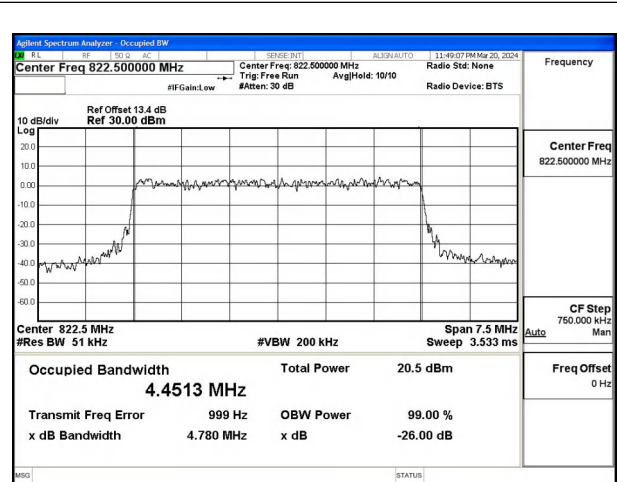


Fig.20

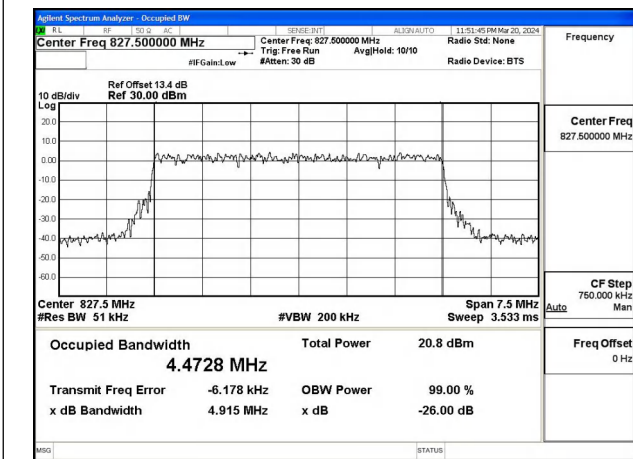


Fig.21

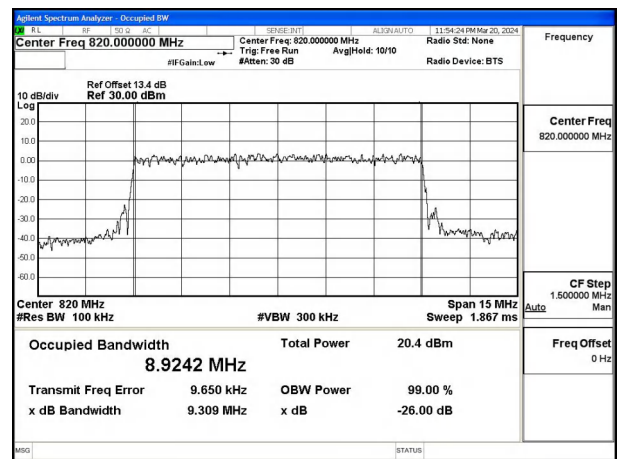


Fig.22

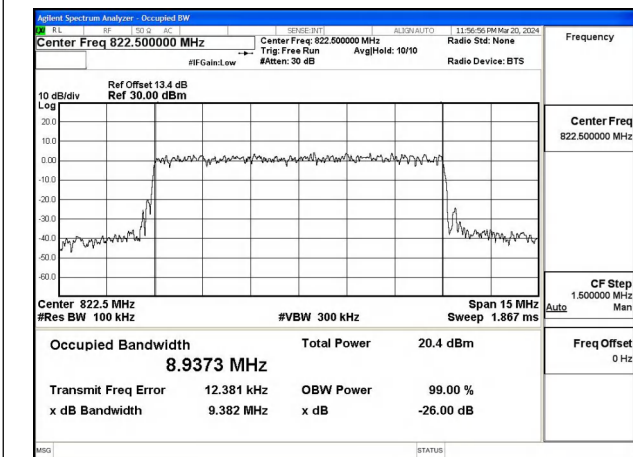


Fig.23

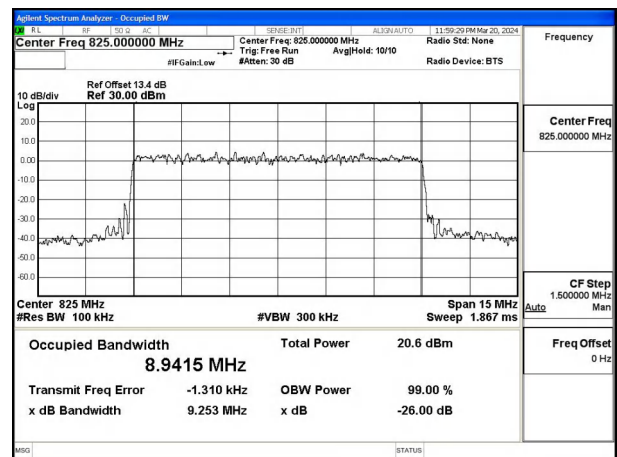


Fig.24

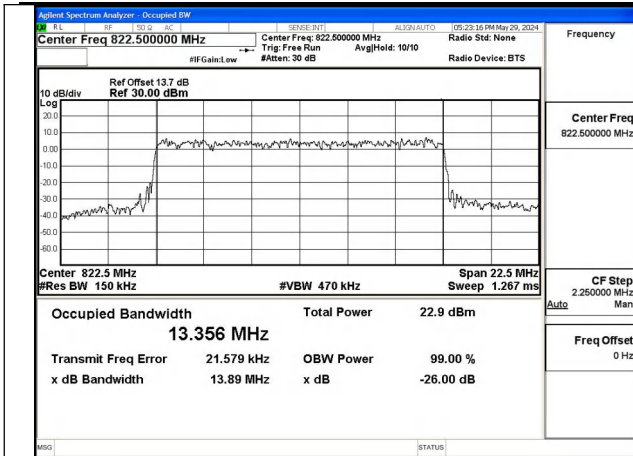


Fig.25

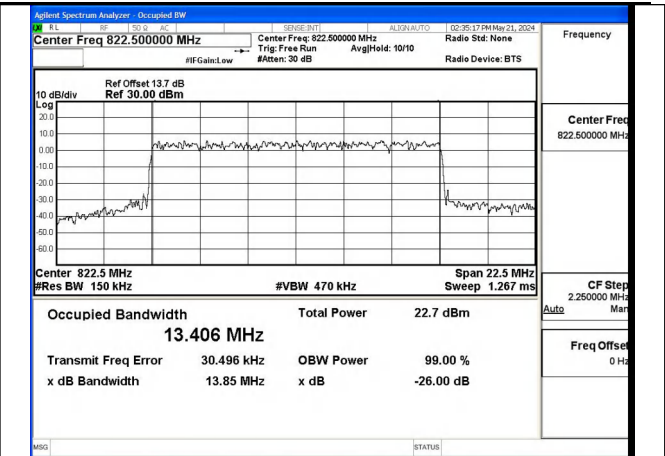


Fig.26

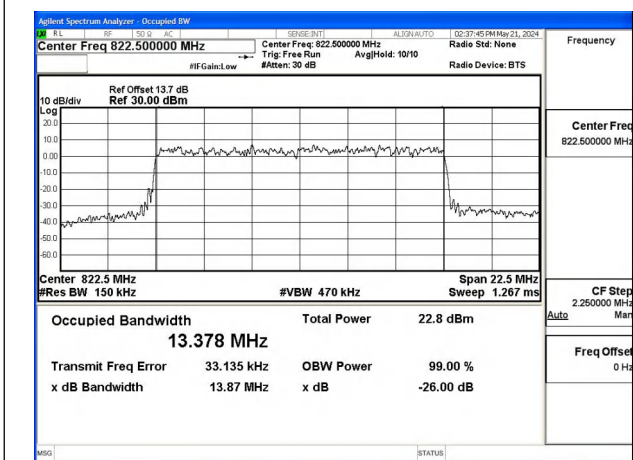


Fig.27

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
18	QPSK	817.5	23875	5	25	0	4.718	Fig.1
18	QPSK	822.5	23925	5	25	0	4.699	Fig.2
18	QPSK	827.5	23975	5	25	0	4.766	Fig.3
18	QPSK	820	23900	10	50	0	9.396	Fig.4
18	QPSK	822.5	23925	10	50	0	9.273	Fig.5
18	QPSK	825	23950	10	50	0	9.346	Fig.6
18	QPSK	822.5	23925	15	75	0	13.992	Fig.7
18	QPSK	822.5	23925	15	75	0	13.897	Fig.8
18	QPSK	822.5	23925	15	75	0	13.857	Fig.9

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
18	16QAM	817.5	23875	5	25	0	4.684	Fig.10
18	16QAM	822.5	23925	5	25	0	4.796	Fig.11
18	16QAM	827.5	23975	5	25	0	4.807	Fig.12
18	16QAM	820	23900	10	50	0	9.344	Fig.13
18	16QAM	822.5	23925	10	50	0	9.267	Fig.14
18	16QAM	825	23950	10	50	0	9.339	Fig.15
18	16QAM	822.5	23925	15	75	0	14.064	Fig.16
18	16QAM	822.5	23925	15	75	0	13.996	Fig.17
18	16QAM	822.5	23925	15	75	0	13.858	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
18	64QAM	817.5	23875	5	25	0	4.653	Fig.19
18	64QAM	822.5	23925	5	25	0	4.780	Fig.20
18	64QAM	827.5	23975	5	25	0	4.915	Fig.21
18	64QAM	820	23900	10	50	0	9.309	Fig.22
18	64QAM	822.5	23925	10	50	0	9.382	Fig.23
18	64QAM	825	23950	10	50	0	9.253	Fig.24
18	64QAM	822.5	23925	15	75	0	13.887	Fig.25
18	64QAM	822.5	23925	15	75	0	13.854	Fig.26
18	64QAM	822.5	23925	15	75	0	13.871	Fig.27

Test Mode: QPSK

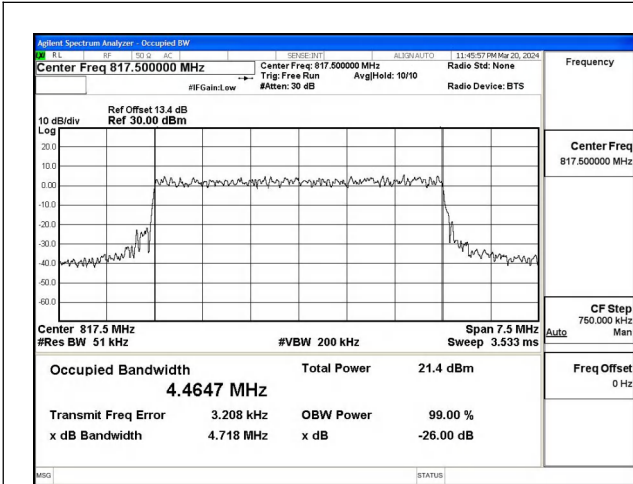


Fig.1

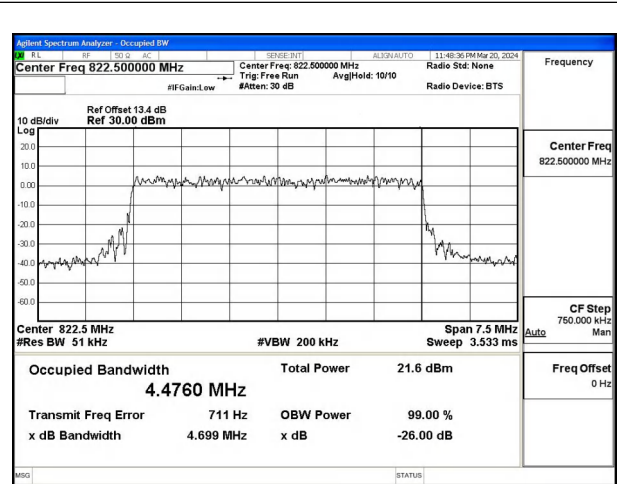


Fig.2

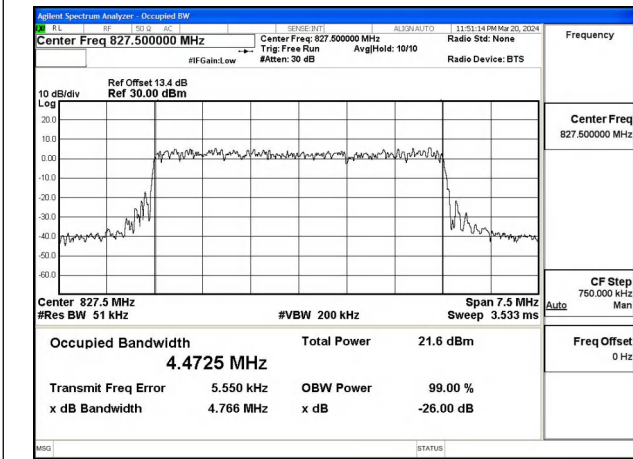


Fig.3

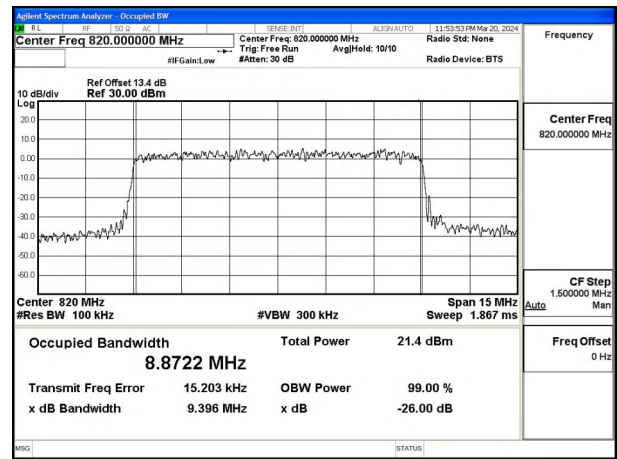


Fig.4

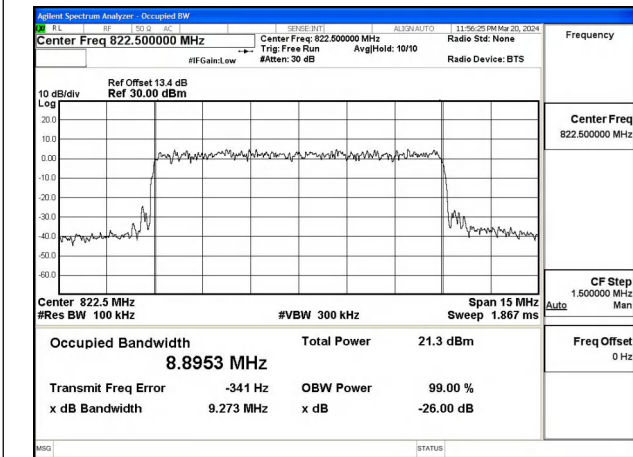


Fig.5

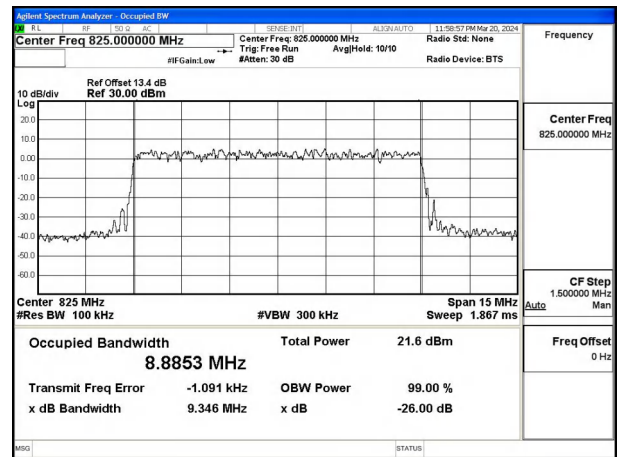


Fig.6

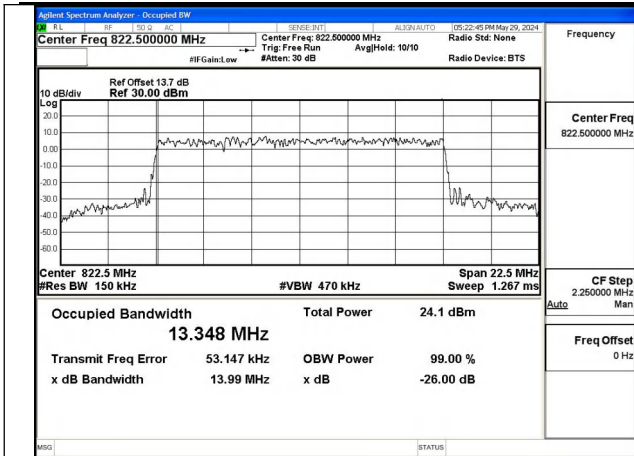


Fig.7

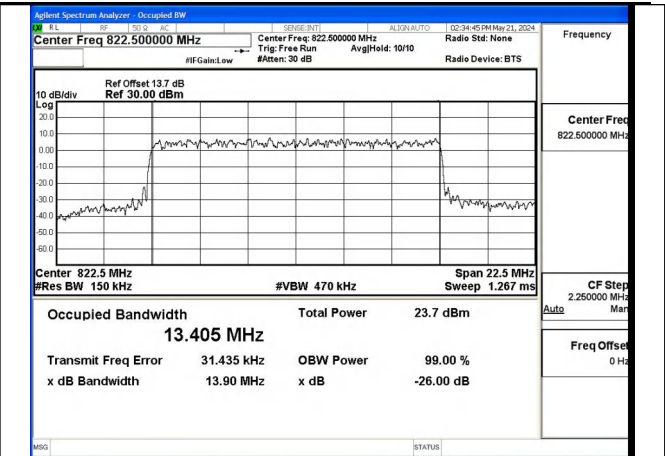


Fig.8

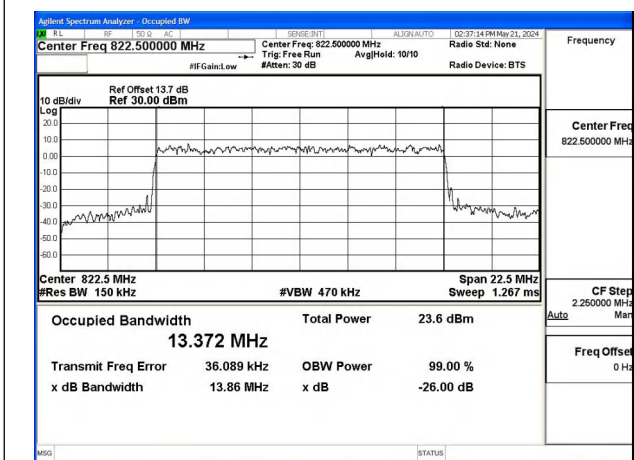


Fig.9

Test Mode: 16QAM

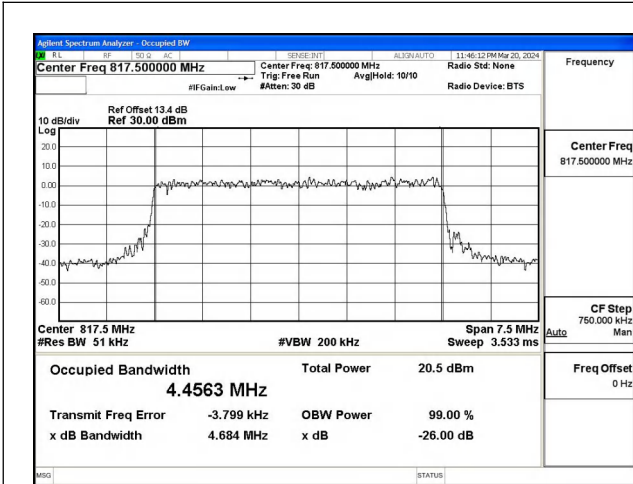


Fig.10

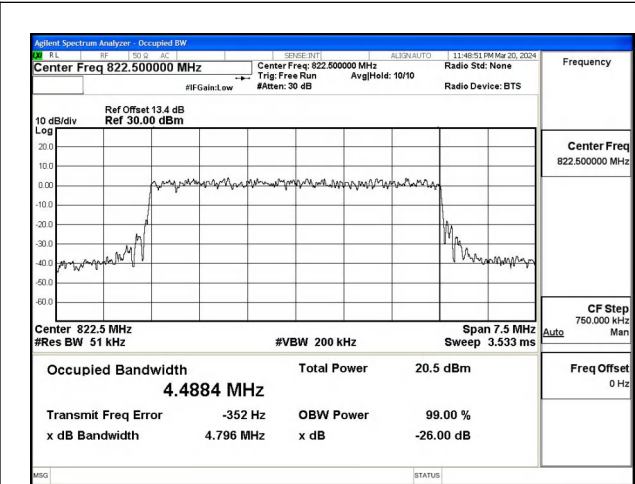


Fig.11

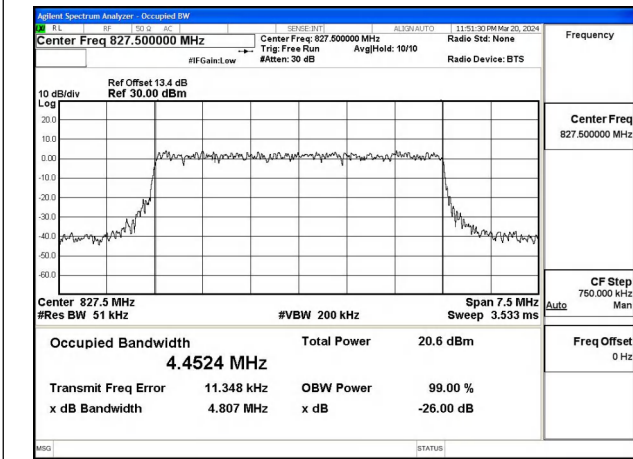


Fig.12

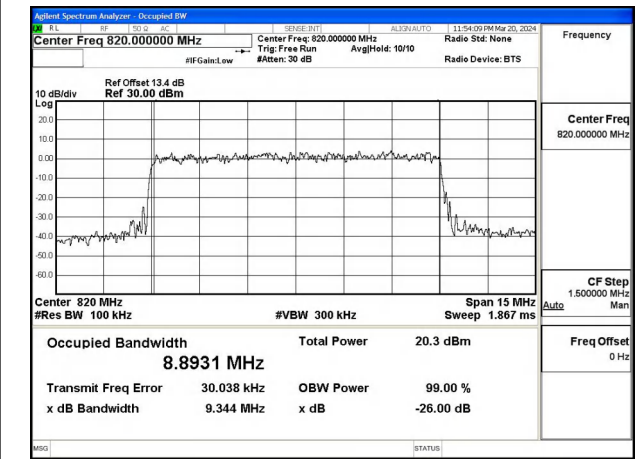


Fig.13

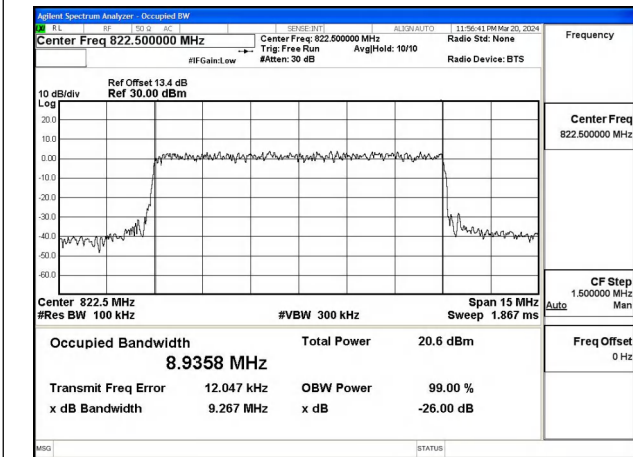


Fig.14

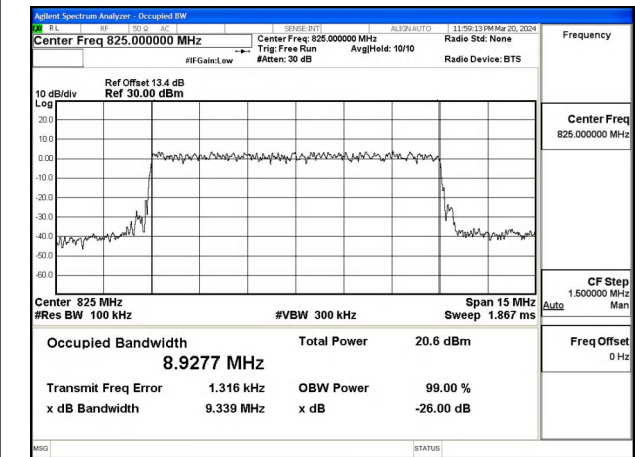


Fig.15

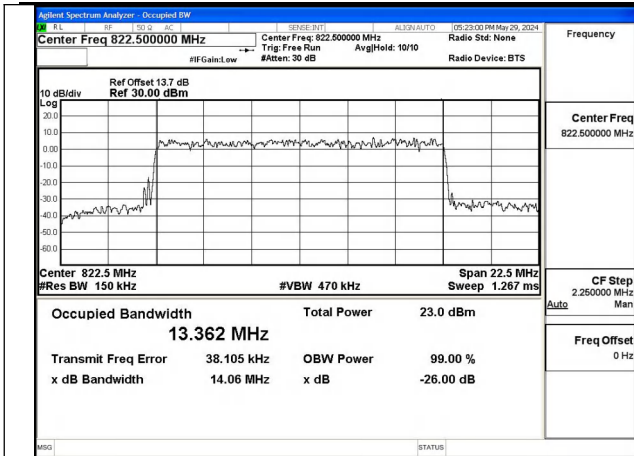


Fig.16

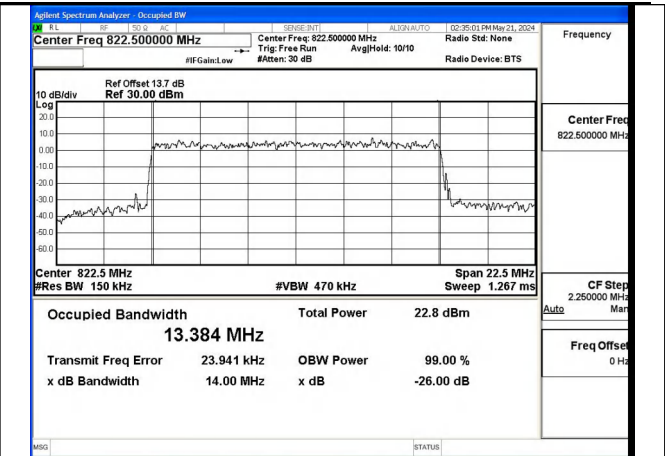


Fig.17

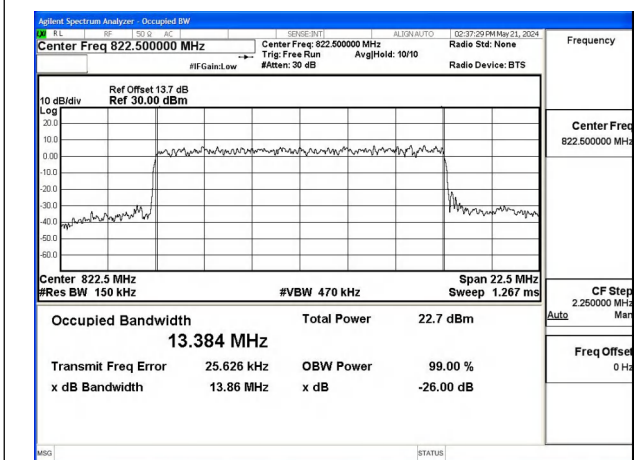


Fig.18

Test Mode: 64QAM

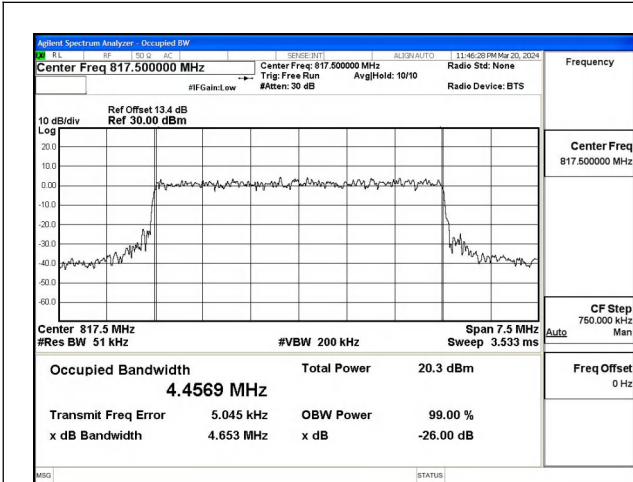


Fig.19

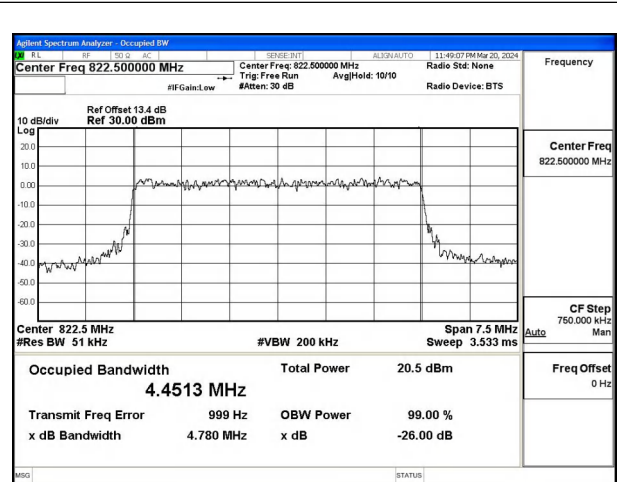


Fig.20

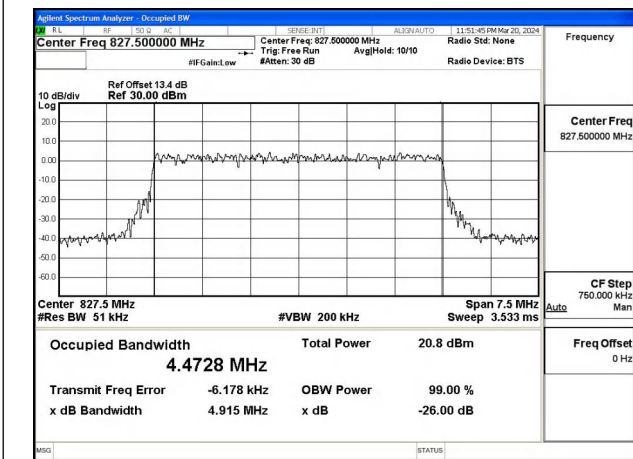


Fig.21

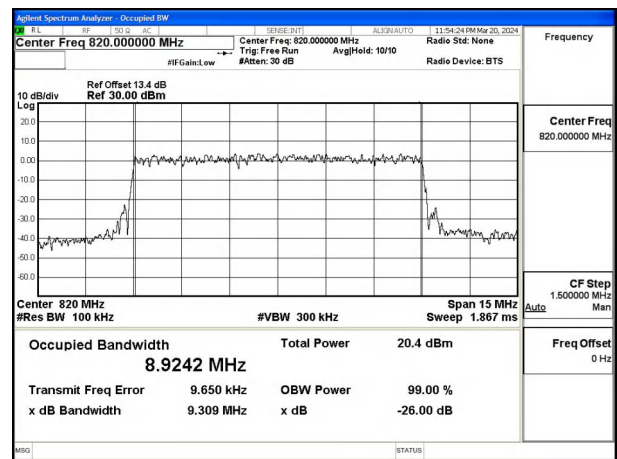


Fig.22

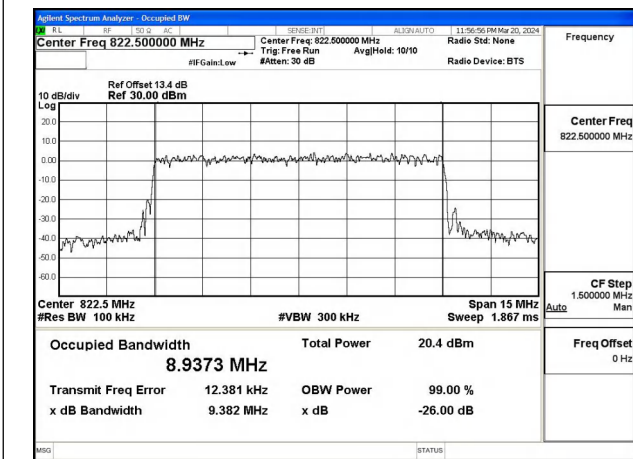


Fig.23

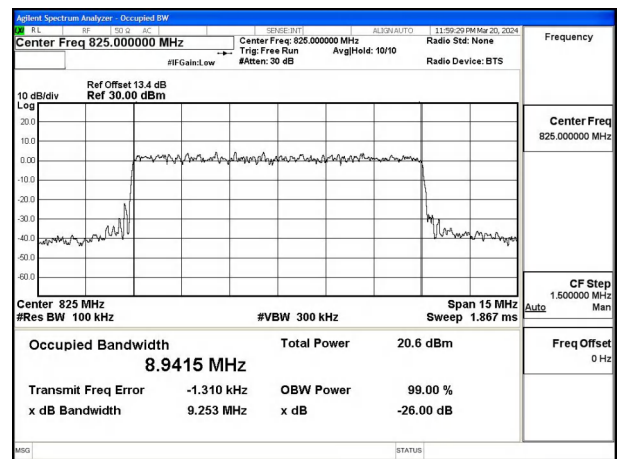


Fig.24

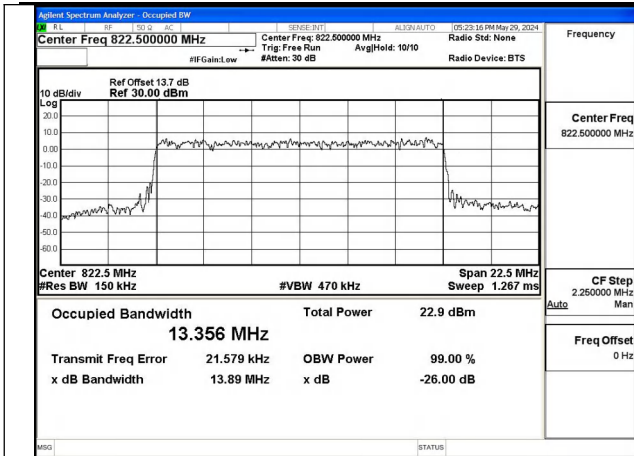


Fig.25

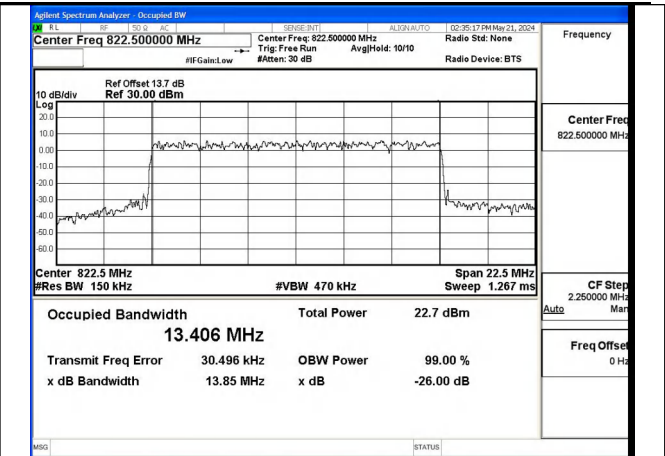


Fig.26

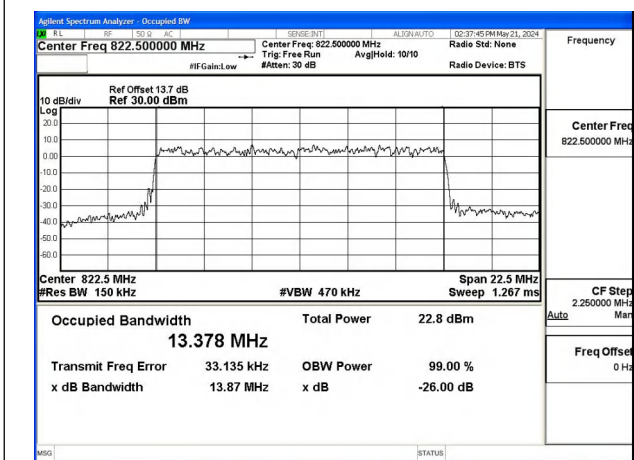


Fig.27

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
18	817.5	23875	5	1	24	Fig.1	Fig.2	Fig.3
18	817.5	23875	5	25	0	Fig.4	Fig.5	Fig.6
18	822.5	23925	5	1	24	Fig.7	Fig.8	Fig.9
18	822.5	23925	5	25	0	Fig.10	Fig.11	Fig.12
18	827.5	23975	5	1	24	Fig.13	Fig.14	Fig.15
18	827.5	23975	5	25	0	Fig.16	Fig.17	Fig.18
18	820	23900	10	1	49	Fig.19	Fig.20	Fig.21
18	820	23900	10	50	0	Fig.22	Fig.23	Fig.24
18	822.5	23925	10	1	49	Fig.25	Fig.26	Fig.27
18	822.5	23925	10	50	0	Fig.28	Fig.29	Fig.30
18	825	23950	10	1	49	Fig.31	Fig.32	Fig.33
18	825	23950	10	50	0	Fig.34	Fig.35	Fig.36
18	822.5	23925	15	1	74	Fig.37	Fig.38	Fig.39
18	822.5	23925	15	75	0	Fig.40	Fig.41	Fig.42

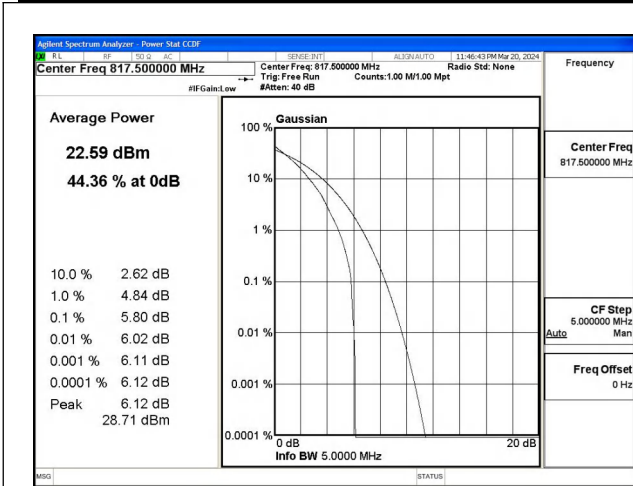


Fig.1

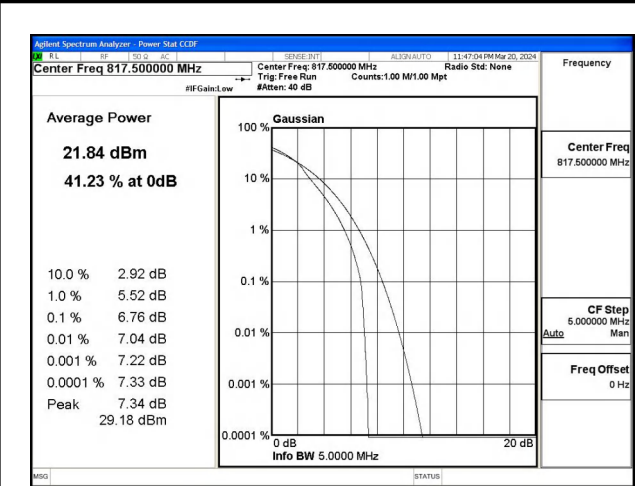


Fig.2

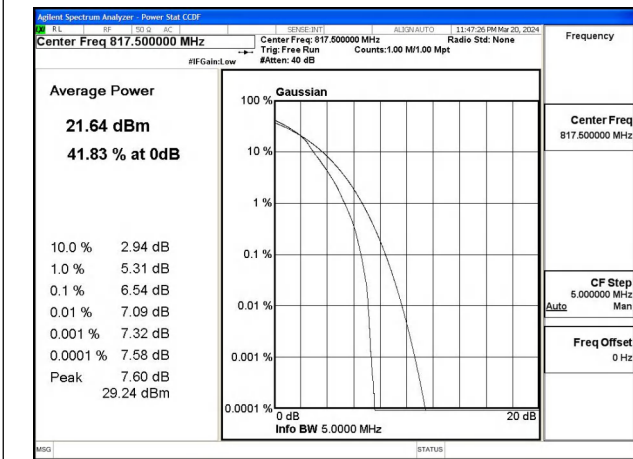


Fig.3

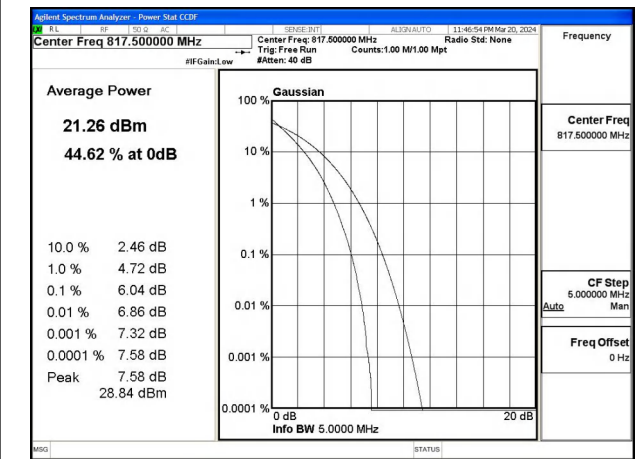


Fig.4

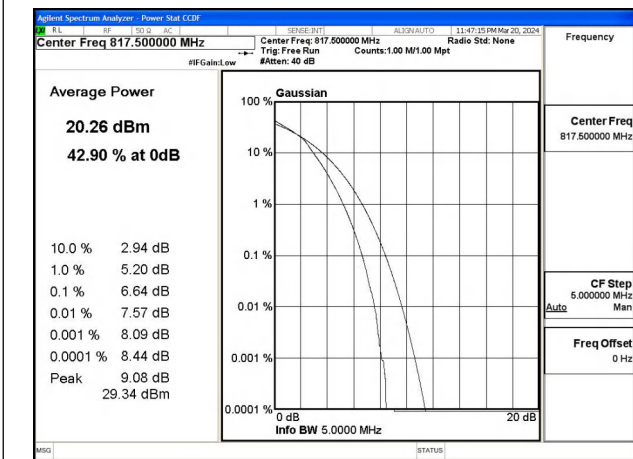


Fig.5

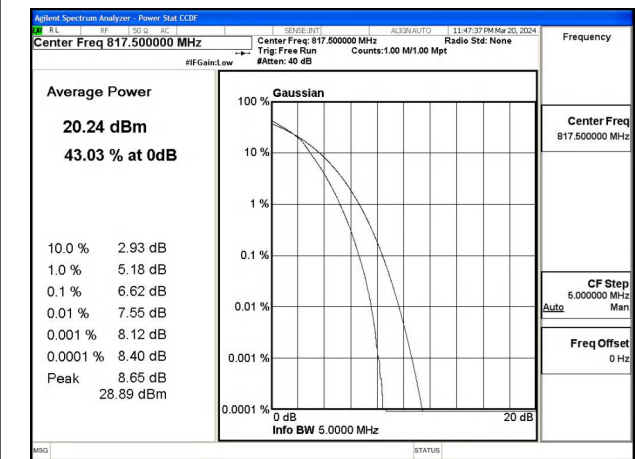


Fig.6

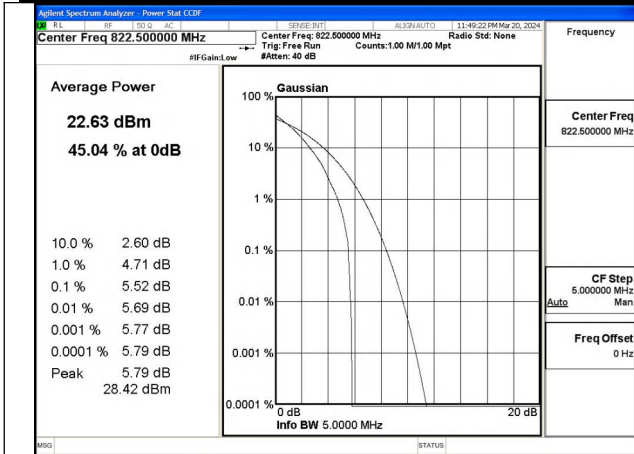


Fig.7

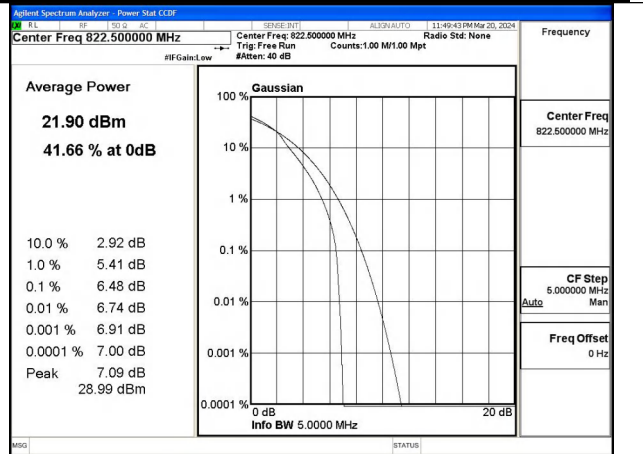


Fig.8

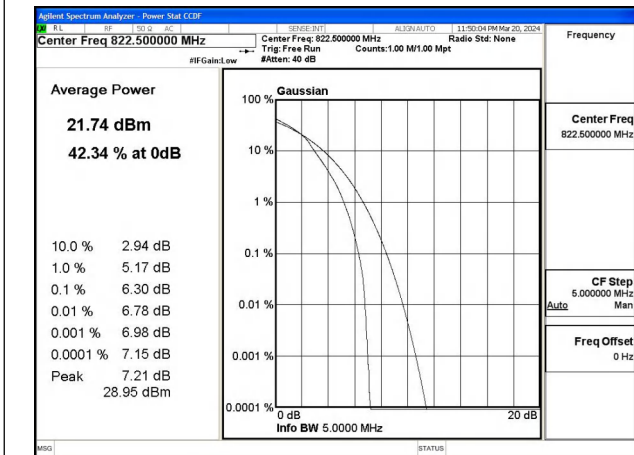


Fig.9

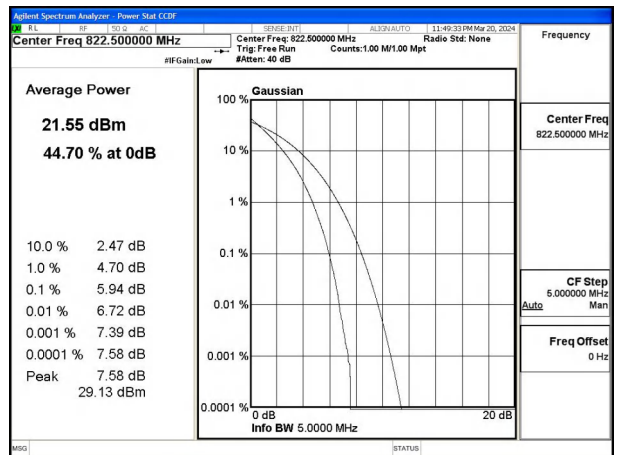


Fig.10

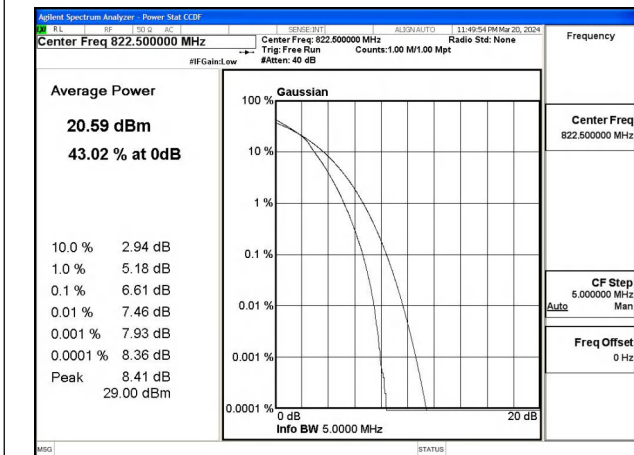


Fig.11

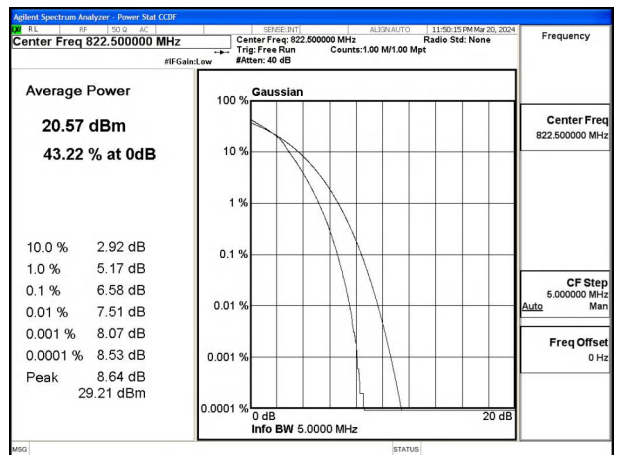


Fig.12

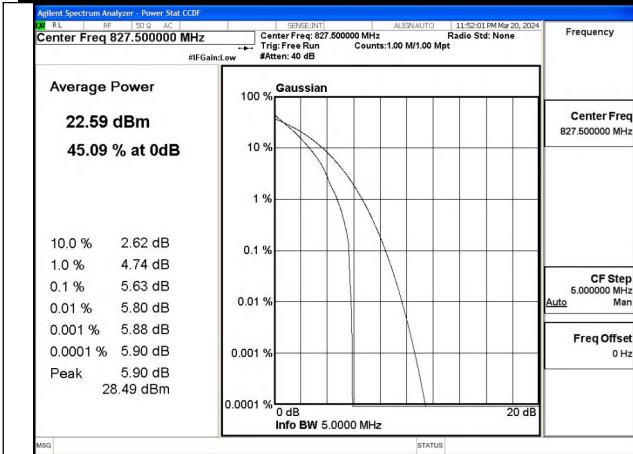


Fig. 13

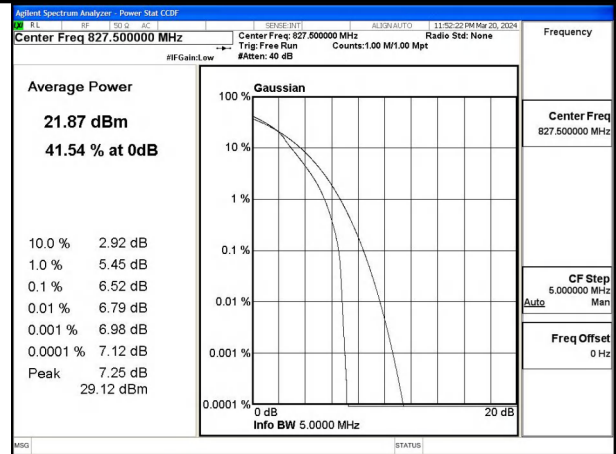


Fig. 14

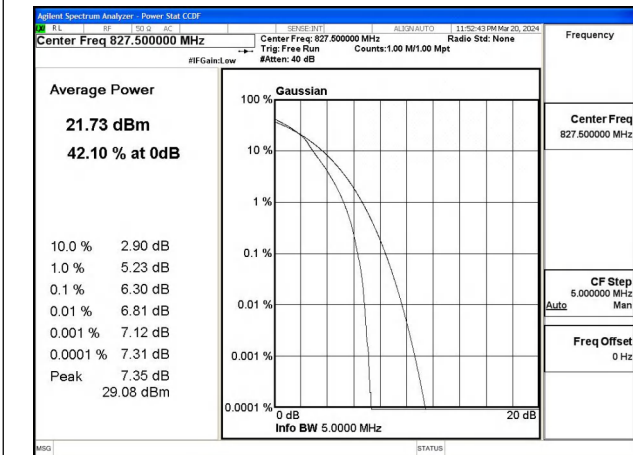


Fig. 15

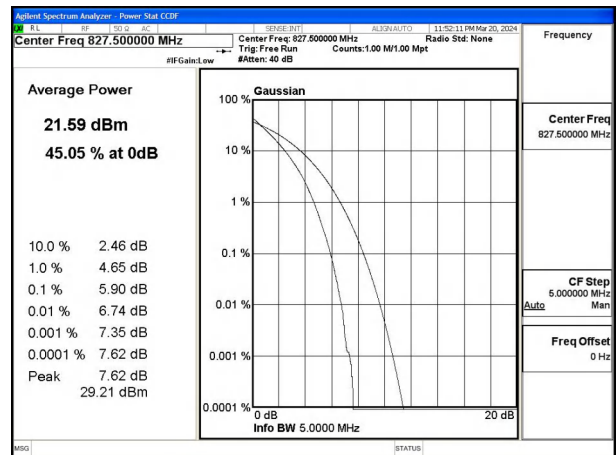


Fig. 16

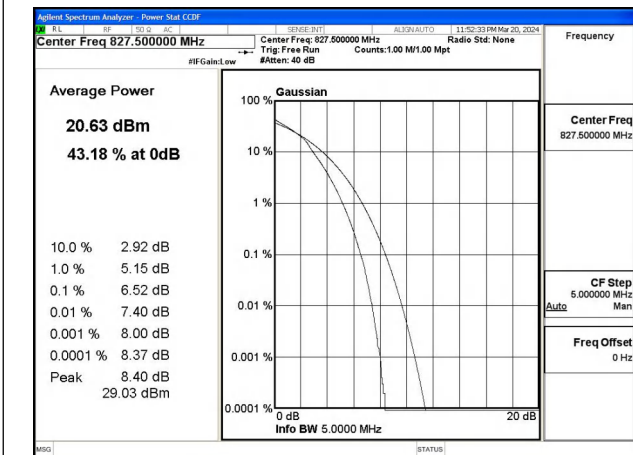


Fig. 17

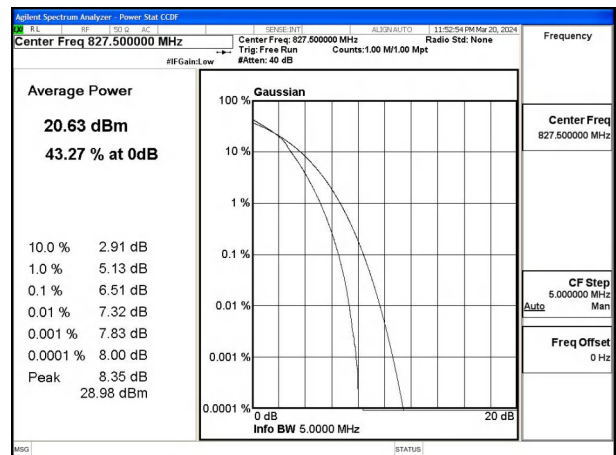


Fig. 18

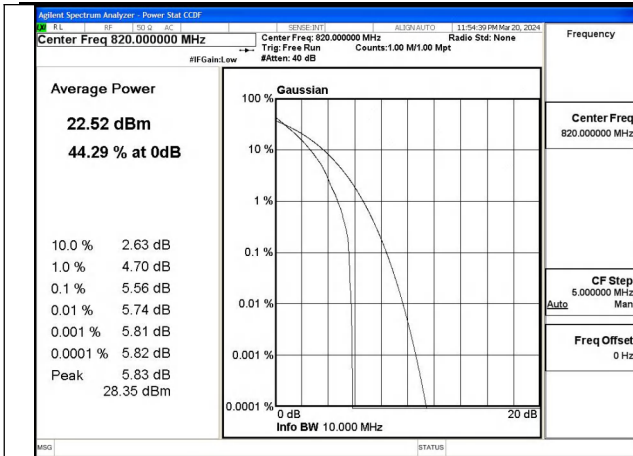


Fig.19

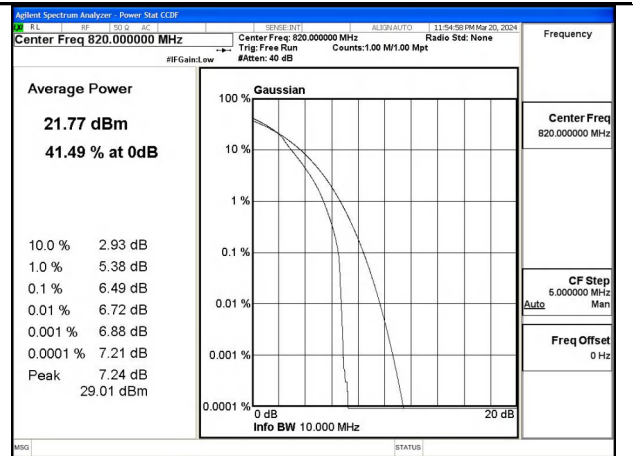


Fig.20

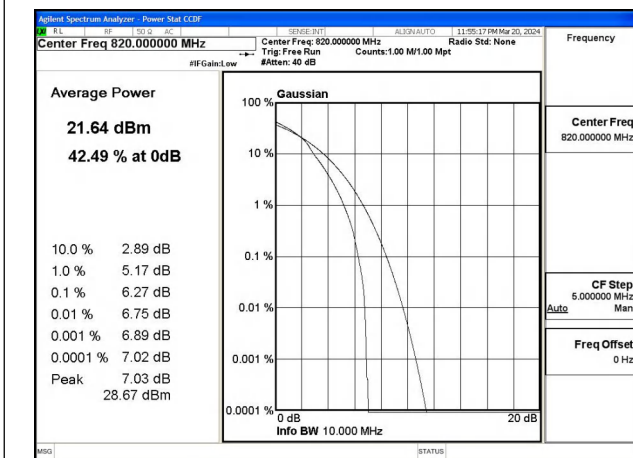


Fig.21

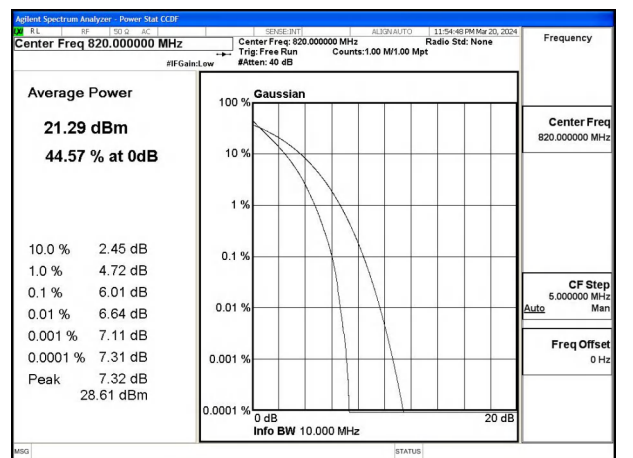


Fig.22

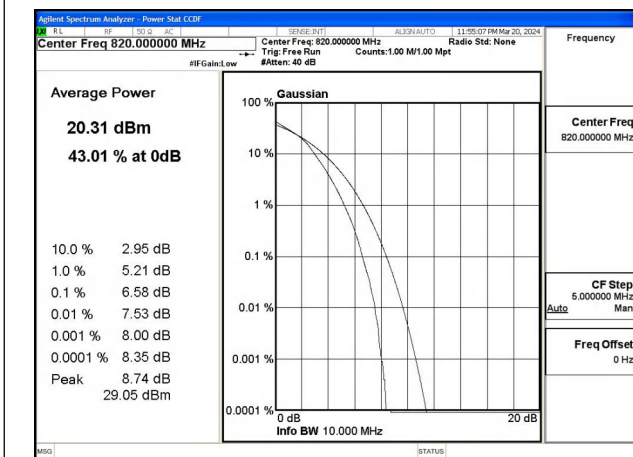


Fig.23

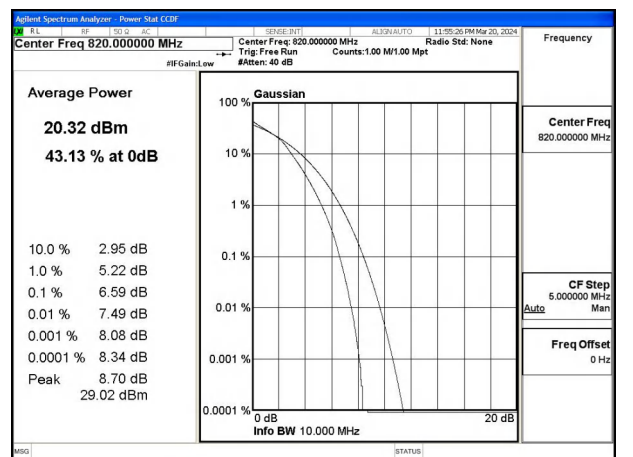


Fig.24