APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band LTE Band 5

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	21.90
16QAM	824.7	20407	1.4	1	3	21.81
16QAM	824.7	20407	1.4	1	5	21.92
16QAM	824.7	20407	1.4	3	0	21.54
16QAM	824.7	20407	1.4	3	1	21.61
16QAM	824.7	20407	1.4	3	3	21.56
16QAM	824.7	20407	1.4	6	0	20.78
16QAM	836.5	20525	1.4	1	0	21.48
16QAM	836.5	20525	1.4	1	3	21.83
16QAM	836.5	20525	1.4	1	5	21.84
16QAM	836.5	20525	1.4	3	0	21.27
16QAM	836.5	20525	1.4	3	1	21.29
16QAM	836.5	20525	1.4	3	3	21.41
16QAM	836.5	20525	1.4	6	0	20.67
16QAM	848.3	20643	1.4	1	0	21.67
16QAM	848.3	20643	1.4	1	3	21.66
16QAM	848.3	20643	1.4	1	5	21.40
16QAM	848.3	20643	1.4	3	0	21.71
16QAM	848.3	20643	1.4	3	1	21.54
16QAM	848.3	20643	1.4	3	3	21.58
16QAM	848.3	20643	1.4	6	0	20.93
64QAM	824.7	20407	1.4	1	0	21.59
64QAM	824.7	20407	1.4	1	3	22.04
64QAM	824.7	20407	1.4	1	5	21.63
64QAM	824.7	20407	1.4	3	0	21.40
64QAM	824.7	20407	1.4	3	1	21.47
64QAM	824.7	20407	1.4	3	3	21.44
64QAM	824.7	20407	1.4	6	0	20.70
64QAM	836.5	20525	1.4	1	0	21.04
64QAM	836.5	20525	1.4	1	3	21.12
64QAM	836.5	20525	1.4	1	5	21.19
64QAM	836.5	20525	1.4	3	0	21.35
64QAM	836.5	20525	1.4	3	1	21.37
64QAM	836.5	20525	1.4	3	3	21.57
64QAM	836.5	20525	1.4	6	0	20.63
64QAM	848.3	20643	1.4	1	0	21.67
64QAM	848.3	20643	1.4	1	3	21.57
64QAM	848.3	20643	1.4	1	5	21.65
64QAM	848.3	20643	1.4	3	0	21.61
64QAM	848.3	20643	1.4	3	1	21.21
64QAM	848.3	20643	1.4	3	3	21.42

64QAM	848.3	20643	1.4	6	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	22.63
QPSK	824.7	20407	1.4	1	3	22.31
QPSK	824.7	20407	1.4	1	5	22.76
QPSK	824.7	20407	1.4	3	0	22.23
QPSK	824.7	20407	1.4	3	1	22.62
QPSK	824.7	20407	1.4	3	3	22.26
QPSK	824.7	20407	1.4	6	0	22.36
QPSK	836.5	20525	1.4	1	0	22.13
QPSK	836.5	20525	1.4	1	3	21.88
QPSK	836.5	20525	1.4	1	5	22.02
QPSK	836.5	20525	1.4	3	0	22.02
QPSK	836.5	20525	1.4	3	1	21.96
QPSK	836.5	20525	1.4	3	3	21.98
QPSK	836.5	20525	1.4	6	0	22.04
QPSK	848.3	20643	1.4	1	0	22.45
QPSK	848.3	20643	1.4	1	3	22.80
QPSK	848.3	20643	1.4	1	5	22.36
QPSK	848.3	20643	1.4	3	0	22.48
QPSK	848.3	20643	1.4	3	1	22.80
QPSK	848.3	20643	1.4	3	3	22.65
QPSK	848.3	20643	1.4	6	0	22.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.33
16QAM	825.5	20415	3	1	8	22.15
16QAM	825.5	20415	3	1	14	21.74
16QAM	825.5	20415	3	8	0	20.73
16QAM	825.5	20415	3	8	4	20.68
16QAM	825.5	20415	3	8	7	20.68
16QAM	825.5	20415	3	15	0	20.66
16QAM	836.5	20525	3	1	0	21.85
16QAM	836.5	20525	3	1	8	22.09
16QAM	836.5	20525	3	1	14	21.94
16QAM	836.5	20525	3	8	0	20.17
16QAM	836.5	20525	3	8	4	20.64
16QAM	836.5	20525	3	8	7	20.75
16QAM	836.5	20525	3	15	0	20.75
16QAM	847.5	20635	3	1	0	21.67
16QAM	847.5	20635	3	1	8	21.55
16QAM	847.5	20635	3	1	14	21.50
16QAM	847.5	20635	3	8	0	20.88
16QAM	847.5	20635	3	8	4	20.93
16QAM	847.5	20635	3	8	7	20.88
16QAM	847.5	20635	3	15	0	20.86
64QAM	825.5	20415	3	1	0	21.46
64QAM	825.5	20415	3	1	8	21.49
64QAM	825.5	20415	3	1	14	20.87
64QAM	825.5	20415	3	8	0	20.71
64QAM	825.5	20415	3	8	4	20.69
64QAM	825.5	20415	3	8	7	20.69
64QAM	825.5	20415	3	15	0	20.38
64QAM	836.5	20525	3	1	0	21.47
64QAM	836.5	20525	3	1	8	21.67
64QAM	836.5	20525	3	1	14	21.85
64QAM	836.5	20525	3	8	0	20.40
64QAM	836.5	20525	3	8	4	20.83
64QAM	836.5	20525	3	8	7	20.82
64QAM	836.5	20525	3	15	0	20.68
64QAM	847.5	20635	3	1	0	21.03
64QAM	847.5	20635	3	1	8	21.09
64QAM	847.5	20635	3	1	14	21.09
64QAM	847.5	20635	3	8	0	20.93
64QAM	847.5	20635	3	8	4	20.92
64QAM	847.5	20635	3	8	7	20.93
64QAM	847.5	20635	3	15	0	20.59

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	22.65
QPSK	825.5	20415	3	1	8	22.63
QPSK	825.5	20415	3	1	14	22.42
QPSK	825.5	20415	3	8	0	22.52
QPSK	825.5	20415	3	8	4	22.54
QPSK	825.5	20415	3	8	7	21.88
QPSK	825.5	20415	3	15	0	22.51
QPSK	836.5	20525	3	1	0	22.27
QPSK	836.5	20525	3	1	8	22.34
QPSK	836.5	20525	3	1	14	22.09
QPSK	836.5	20525	3	8	0	22.15
QPSK	836.5	20525	3	8	4	21.86
QPSK	836.5	20525	3	8	7	22.09
QPSK	836.5	20525	3	15	0	21.96
QPSK	847.5	20635	3	1	0	22.40
QPSK	847.5	20635	3	1	8	22.49
QPSK	847.5	20635	3	1	14	22.51
QPSK	847.5	20635	3	8	0	22.17
QPSK	847.5	20635	3	8	4	22.42
QPSK	847.5	20635	3	8	7	22.44
QPSK	847.5	20635	3	15	0	22.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	20.98
16QAM	826.5	20425	5	1	12	20.38
16QAM	826.5	20425	5	1	24	21.06
16QAM	826.5	20425	5	12	0	20.47
16QAM	826.5	20425	5	12	7	20.58
16QAM	826.5	20425	5	12	13	20.36
16QAM	826.5	20425	5	25	0	20.56
16QAM	836.5	20525	5	1	0	21.63
16QAM	836.5	20525	5	1	12	22.12
16QAM	836.5	20525	5	1	24	21.69
16QAM	836.5	20525	5	12	0	20.23
16QAM	836.5	20525	5	12	7	20.70
16QAM	836.5	20525	5	12	13	20.69
16QAM	836.5	20525	5	25	0	20.61
16QAM	846.5	20625	5	1	0	21.06
16QAM	846.5	20625	5	1	12	21.15
16QAM	846.5	20625	5	1	24	21.07
16QAM	846.5	20625	5	12	0	20.42
16QAM	846.5	20625	5	12	7	20.69
16QAM	846.5	20625	5	12	13	20.69
16QAM	846.5	20625	5	25	0	20.79
64QAM	826.5	20425	5	1	0	20.64
64QAM	826.5	20425	5	1	12	20.32
64QAM	826.5	20425	5	1	24	20.63
64QAM	826.5	20425	5	12	0	20.47
64QAM	826.5	20425	5	12	7	20.55
64QAM	826.5	20425	5	12	13	20.55
64QAM	826.5	20425	5	25	0	20.49
64QAM	836.5	20525	5	1	0	21.21
64QAM	836.5	20525	5	1	12	21.54
64QAM	836.5	20525	5	1	24	21.03
64QAM	836.5	20525	5	12	0	20.02
64QAM	836.5	20525	5	12	7	20.57
64QAM	836.5	20525	5	12	13	20.63
64QAM	836.5	20525	5	25	0	20.86
64QAM	846.5	20625	5	1	0	21.08
64QAM	846.5	20625	5	1	12	21.18
64QAM	846.5	20625	5	1	24	21.22
64QAM	846.5	20625	5	12	0	20.42
64QAM	846.5	20625	5	12	7	20.77
64QAM	846.5	20625	5	12	13	20.69
64QAM	846.5	20625	5	25	0	20.85

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	22.58
QPSK	826.5	20425	5	1	12	22.15
QPSK	826.5	20425	5	1	24	22.63
QPSK	826.5	20425	5	12	0	22.48
QPSK	826.5	20425	5	12	7	22.02
QPSK	826.5	20425	5	12	13	21.77
QPSK	826.5	20425	5	25	0	21.97
QPSK	836.5	20525	5	1	0	22.16
QPSK	836.5	20525	5	1	12	21.87
QPSK	836.5	20525	5	1	24	22.06
QPSK	836.5	20525	5	12	0	22.15
QPSK	836.5	20525	5	12	7	22.05
QPSK	836.5	20525	5	12	13	21.89
QPSK	836.5	20525	5	25	0	21.94
QPSK	846.5	20625	5	1	0	22.54
QPSK	846.5	20625	5	1	12	22.42
QPSK	846.5	20625	5	1	24	22.44
QPSK	846.5	20625	5	12	0	22.54
QPSK	846.5	20625	5	12	7	22.67
QPSK	846.5	20625	5	12	13	22.42
QPSK	846.5	20625	5	25	0	22.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	21.44
16QAM	829	20450	10	1	25	21.51
16QAM	829	20450	10	1	49	21.04
16QAM	829	20450	10	25	0	20.49
16QAM	829	20450	10	25	12	20.56
16QAM	829	20450	10	25	25	20.79
16QAM	829	20450	10	50	0	20.31
16QAM	836.5	20525	10	1	0	21.91
16QAM	836.5	20525	10	1	25	22.01
16QAM	836.5	20525	10	1	49	22.08
16QAM	836.5	20525	10	25	0	20.51
16QAM	836.5	20525	10	25	12	20.73
16QAM	836.5	20525	10	25	25	20.68
16QAM	836.5	20525	10	50	0	20.48
16QAM	844	20600	10	1	0	20.87
16QAM	844	20600	10	1	25	21.52
16QAM	844	20600	10	1	49	20.95
16QAM	844	20600	10	25	0	20.87
16QAM	844	20600	10	25	12	20.92
16QAM	844	20600	10	25	25	20.96
16QAM	844	20600	10	50	0	20.81
64QAM	829	20450	10	1	0	21.60
64QAM	829	20450	10	1	25	21.73
64QAM	829	20450	10	1	49	21.48
64QAM	829	20450	10	25	0	20.61
64QAM	829	20450	10	25	12	20.72
64QAM	829	20450	10	25	25	20.29
64QAM	829	20450	10	50	0	20.59
64QAM	836.5	20525	10	1	0	22.07
64QAM	836.5	20525	10	1	25	22.38
64QAM	836.5	20525	10	1	49	22.39
64QAM	836.5	20525	10	25	0	20.45
64QAM	836.5	20525	10	25	12	20.89
64QAM	836.5	20525	10	25	25	20.69
64QAM	836.5	20525	10	50	0	20.78
64QAM	844	20600	10	1	0	20.95
64QAM	844	20600	10	1	25	21.46
64QAM	844	20600	10	1	49	21.16
64QAM	844	20600	10	25	0	20.98
64QAM	844	20600	10	25	12	20.95
64QAM	844	20600	10	25	25	20.95
64QAM	844	20600	10	50	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	22.57
QPSK	829	20450	10	1	25	22.64
QPSK	829	20450	10	1	49	22.24
QPSK	829	20450	10	25	0	21.81
QPSK	829	20450	10	25	12	22.52
QPSK	829	20450	10	25	25	22.61
QPSK	829	20450	10	50	0	22.54
QPSK	836.5	20525	10	1	0	22.51
QPSK	836.5	20525	10	1	25	22.09
QPSK	836.5	20525	10	1	49	22.43
QPSK	836.5	20525	10	25	0	22.35
QPSK	836.5	20525	10	25	12	22.12
QPSK	836.5	20525	10	25	25	22.02
QPSK	836.5	20525	10	50	0	22.07
QPSK	844	20600	10	1	0	22.28
QPSK	844	20600	10	1	25	22.76
QPSK	844	20600	10	1	49	22.53
QPSK	844	20600	10	25	0	22.45
QPSK	844	20600	10	25	12	22.52
QPSK	844	20600	10	25	25	22.35
QPSK	844	20600	10	50	0	22.71

2 Occupied Bandwidth

Band	Mode	Carrier frequerncy (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
Band 5	QPSK	824.7	20407	1.4	6	0	1.088	Fig.1
Band 5	QPSK	836.5	20525	1.4	6	0	1.082	Fig.2
Band 5	QPSK	848.3	20643	1.4	6	0	1.082	Fig.3
Band 5	QPSK	825.5	20415	3	15	0	2.683	Fig.4
Band 5	QPSK	836.5	20525	3	15	0	2.683	Fig.5
Band 5	QPSK	847.5	20635	3	15	0	2.683	Fig.6
Band 5	QPSK	826.5	20425	5	25	0	4.493	Fig.7
Band 5	QPSK	836.5	20525	5	25	0	4.472	Fig.8
Band 5	QPSK	846.5	20625	5	25	0	4.450	Fig.9
Band 5	QPSK	829	20450	10	50	0	8.944	Fig.10
Band 5	QPSK	836.5	20525	10	50	0	8.944	Fig.11
Band 5	QPSK	844	20600	10	50	0	8.944	Fig.12

Band	Mode	Carrier frequerncy (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
Band 5	16QAM	824.7	20407	1.4	6	0	1.088	Fig.13
Band 5	16QAM	836.5	20525	1.4	6	0	1.082	Fig.14
Band 5	16QAM	848.3	20643	1.4	6	0	1.082	Fig.15
Band 5	16QAM	825.5	20415	3	15	0	2.683	Fig.16
Band 5	16QAM	836.5	20525	3	15	0	2.696	Fig.17
Band 5	16QAM	847.5	20635	3	15	0	2.696	Fig.18
Band 5	16QAM	826.5	20425	5	25	0	4.472	Fig.19
Band 5	16QAM	836.5	20525	5	25	0	4.472	Fig.20
Band 5	16QAM	846.5	20625	5	25	0	4.450	Fig.21
Band 5	16QAM	829	20450	10	50	0	8.944	Fig.22
Band 5	16QAM	836.5	20525	10	50	0	8.944	Fig.23
Band 5	16QAM	844	20600	10	50	0	8.944	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
Band 5	64QAM	824.7	20407	1.4	6	0	1.082	Fig.25
Band 5	64QAM	836.5	20525	1.4	6	0	1.088	Fig.26
Band 5	64QAM	848.3	20643	1.4	6	0	1.088	Fig.27
Band 5	64QAM	825.5	20415	3	15	0	2.683	Fig.28
Band 5	64QAM	836.5	20525	3	15	0	2.683	Fig.29
Band 5	64QAM	847.5	20635	3	15	0	2.683	Fig.30
Band 5	64QAM	826.5	20425	5	25	0	4.472	Fig.31
Band 5	64QAM	836.5	20525	5	25	0	4.472	Fig.32
Band 5	64QAM	846.5	20625	5	25	0	4.450	Fig.33
Band 5	64QAM	829	20450	10	50	0	8.944	Fig.34
Band 5	64QAM	836.5	20525	10	50	0	8.944	Fig.35
Band 5	64QAM	844	20600	10	50	0	8.944	Fig.36

Test Mode: QPSK

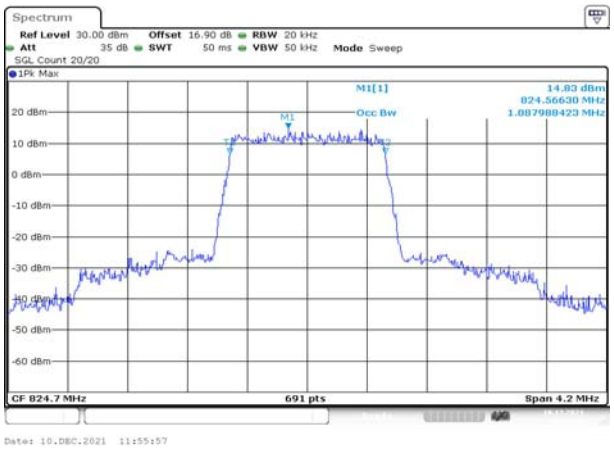


Fig.1

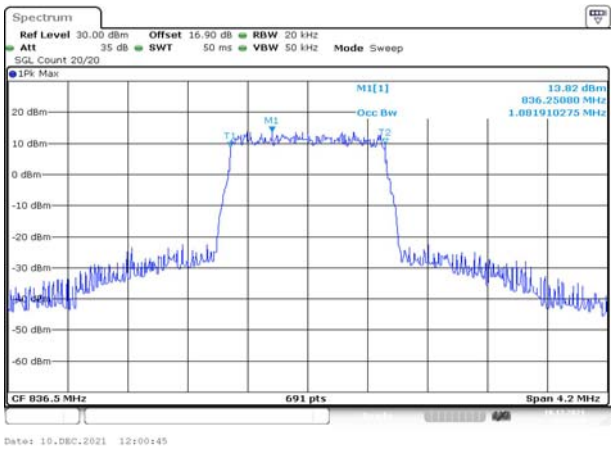


Fig.2

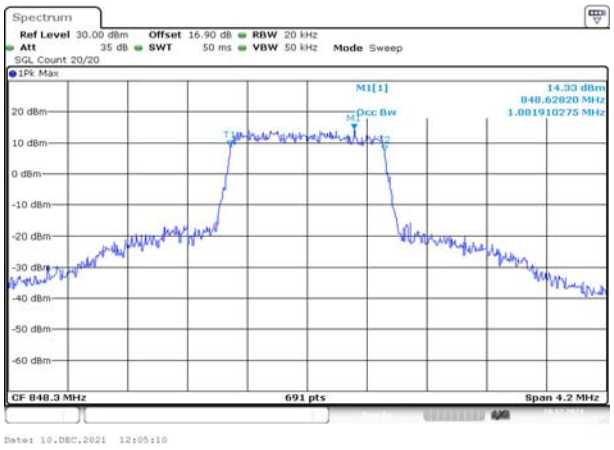


Fig.3

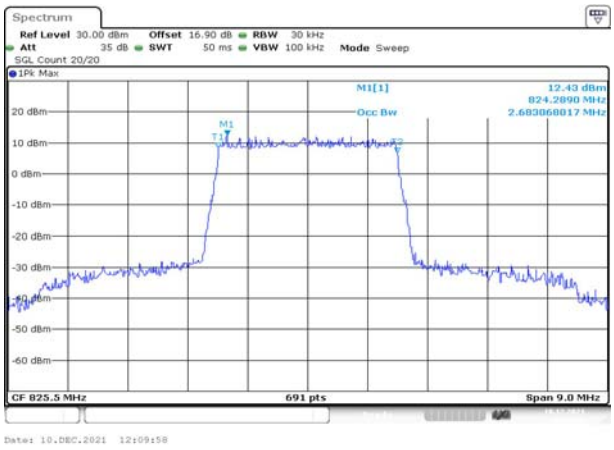


Fig.4

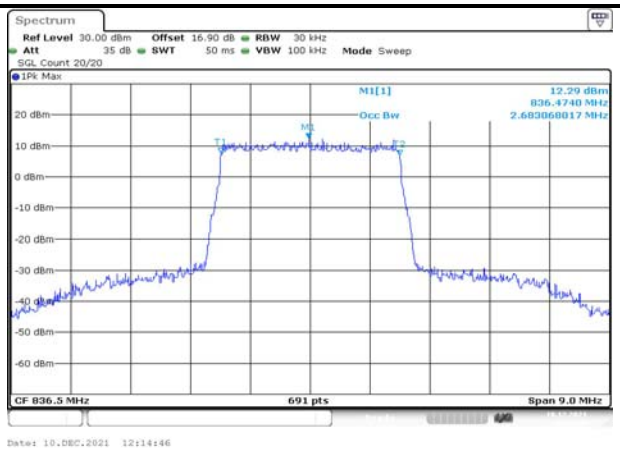


Fig.5

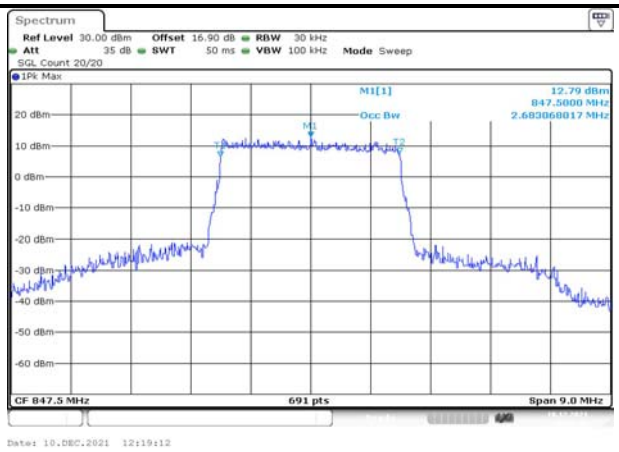


Fig.6

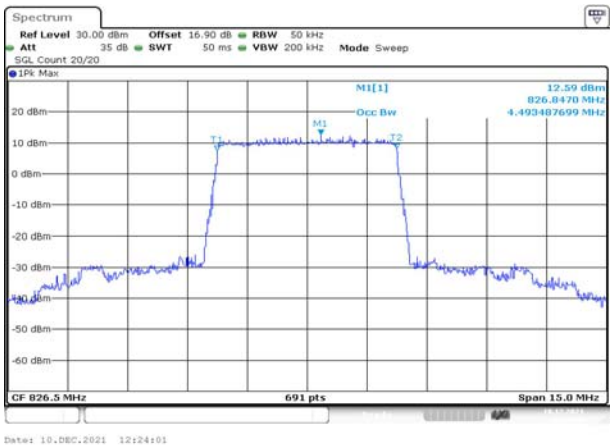
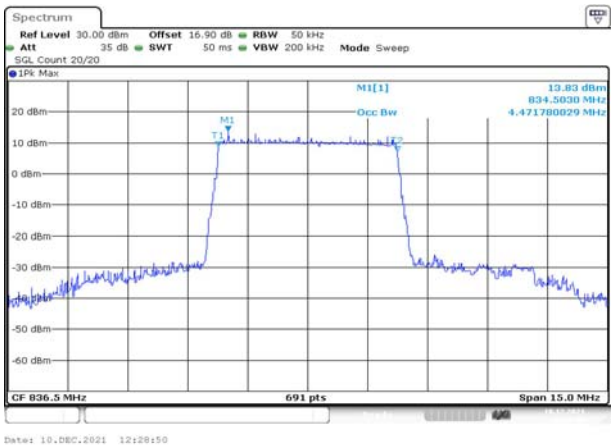


Fig.7



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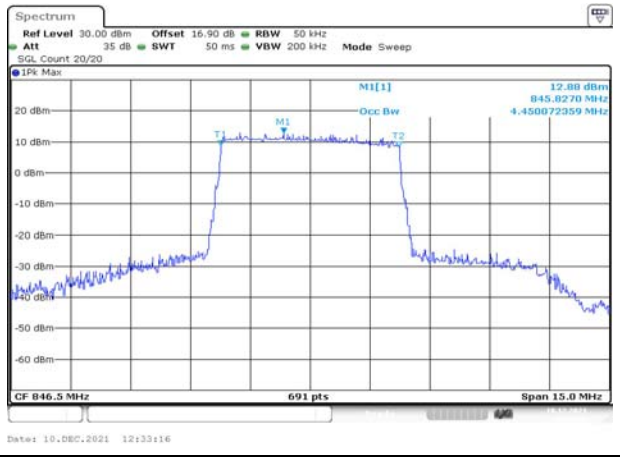


Fig.9

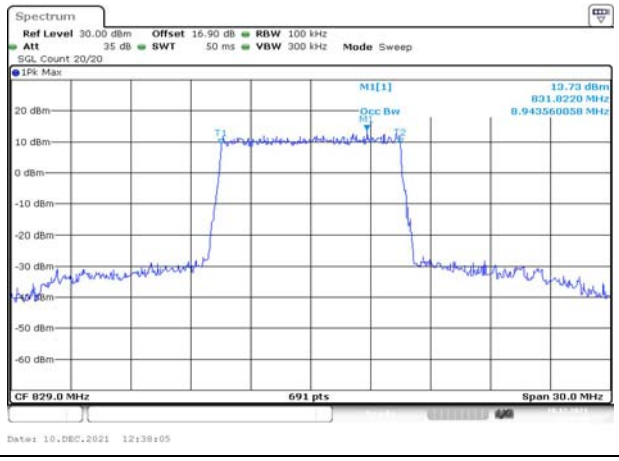


Fig.10

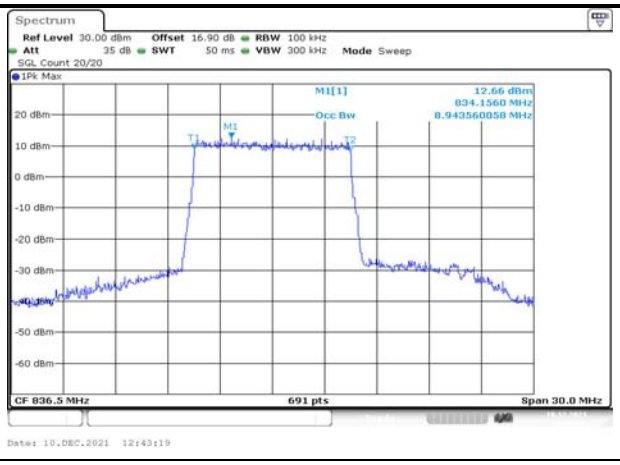


Fig.11

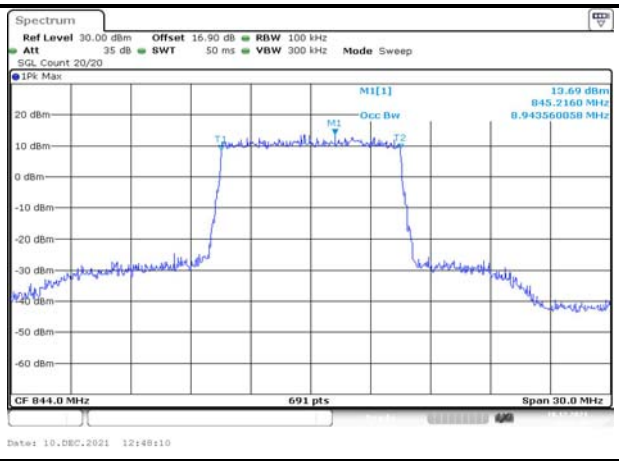


Fig.12

Test Mode: 16QAM

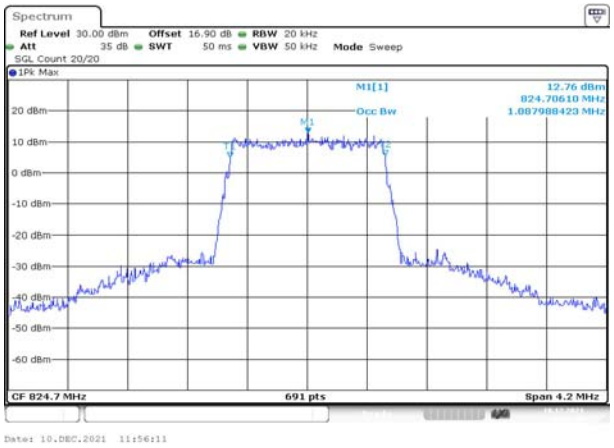


Fig.13

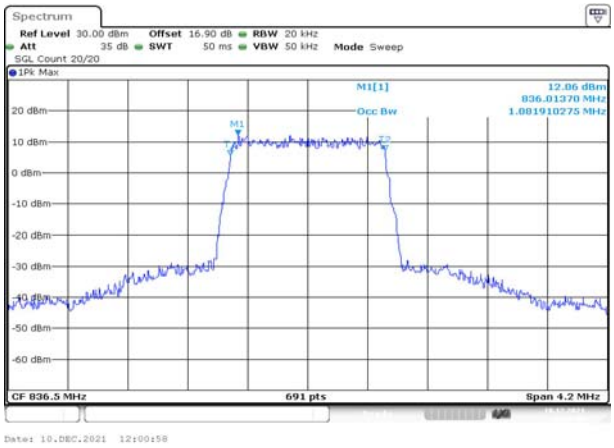


Fig.14

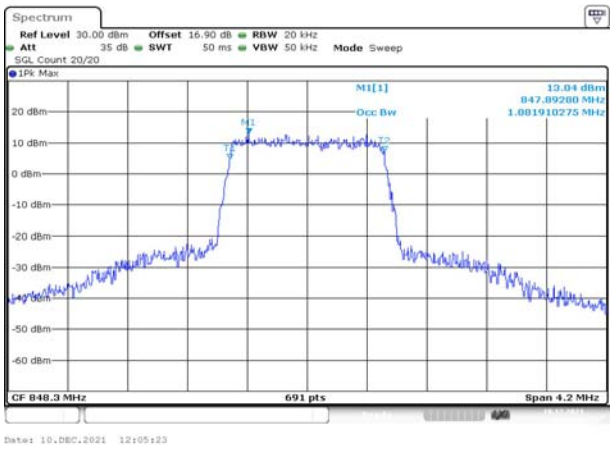


Fig.15

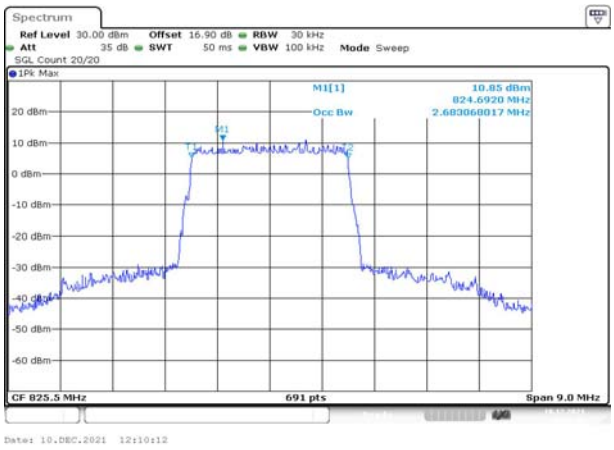


Fig.16

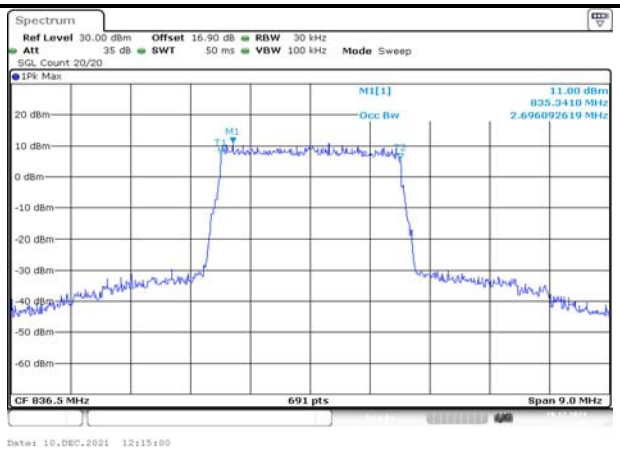


Fig.17

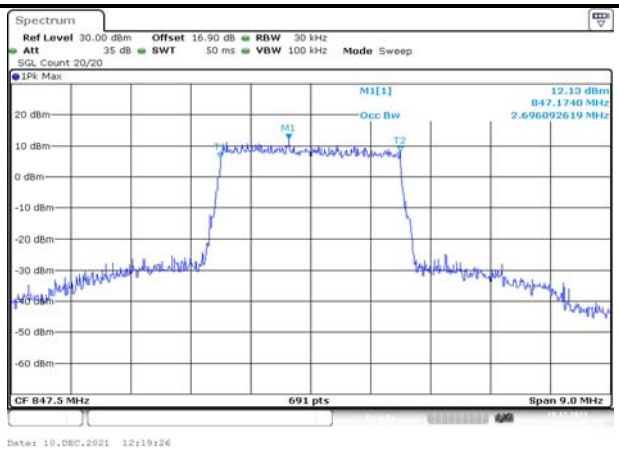


Fig.18

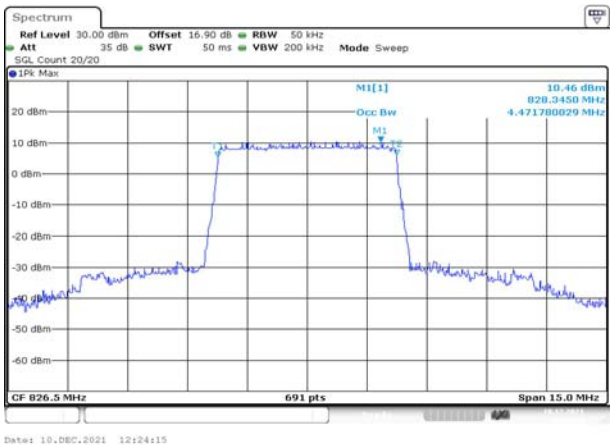


Fig.19

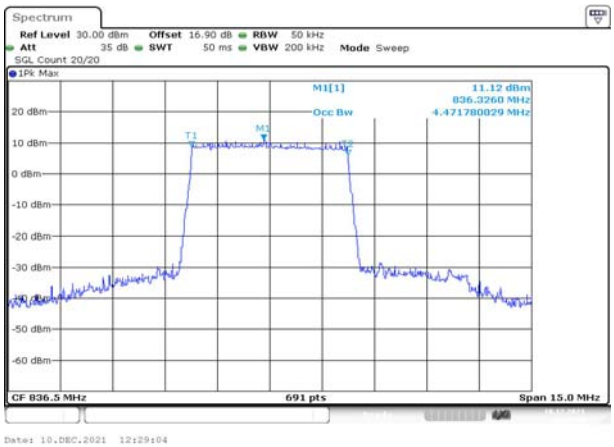


Fig.20

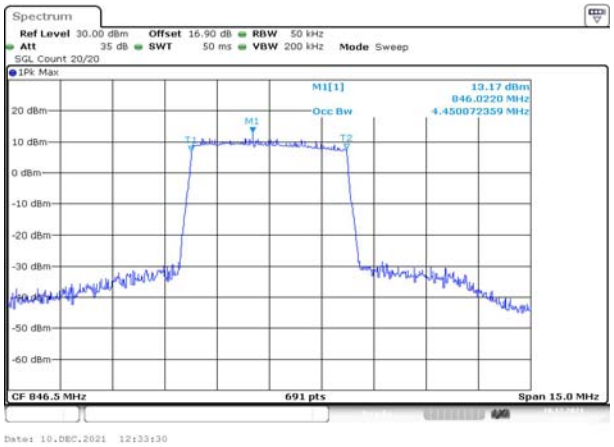


Fig.21

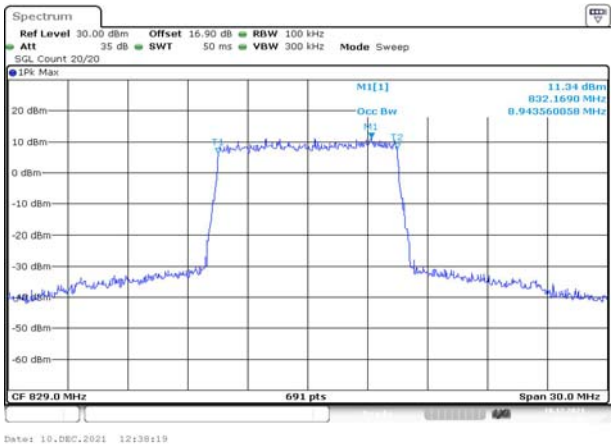


Fig.22

Fig.23

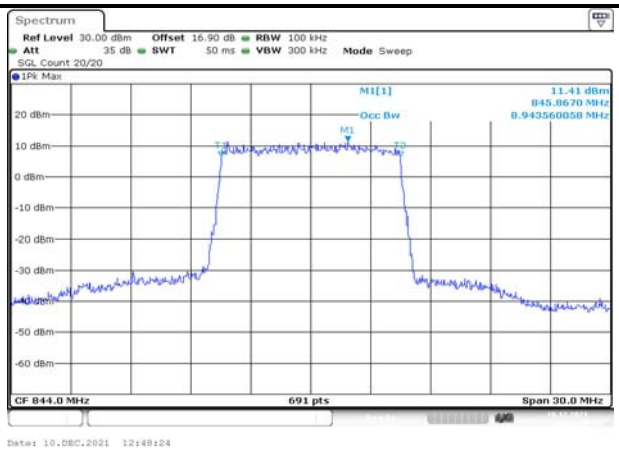


Fig.24

Test Mode: 64QAM

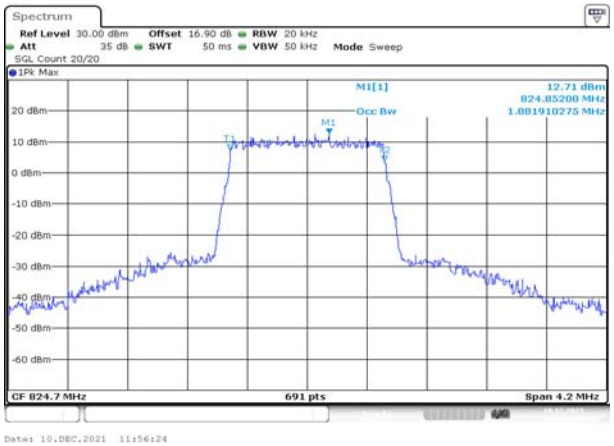


Fig.25

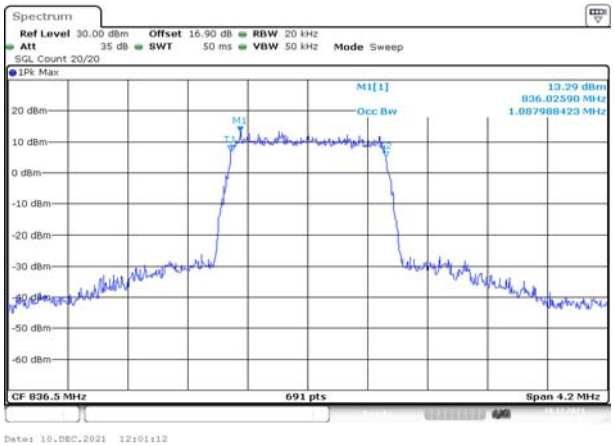


Fig.26

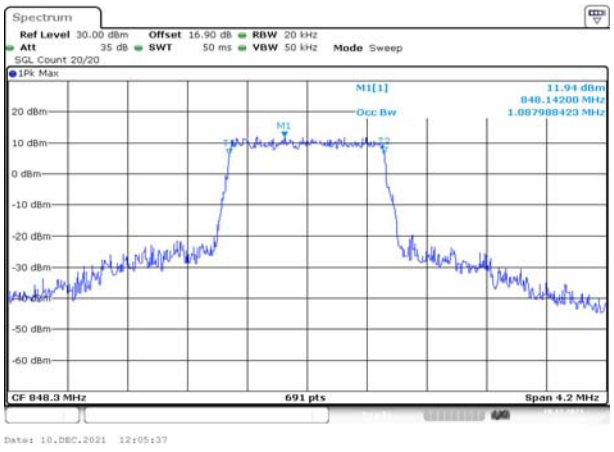


Fig.27

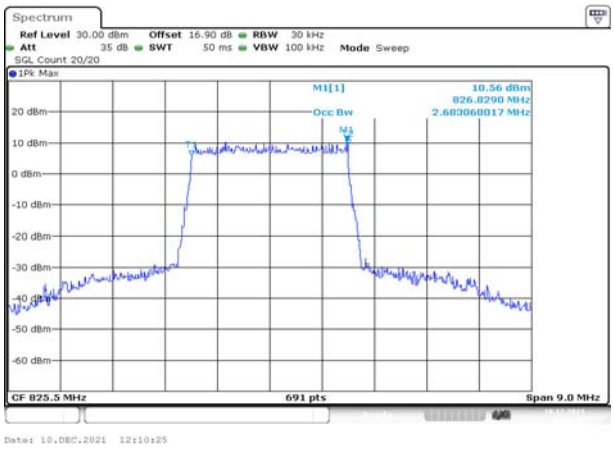


Fig.28

Fig.29

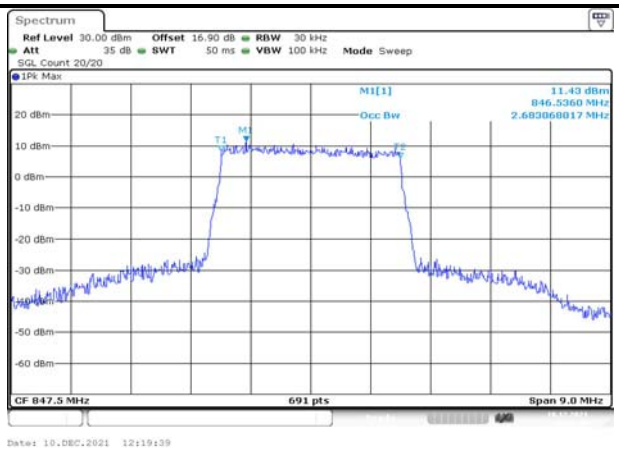


Fig.30

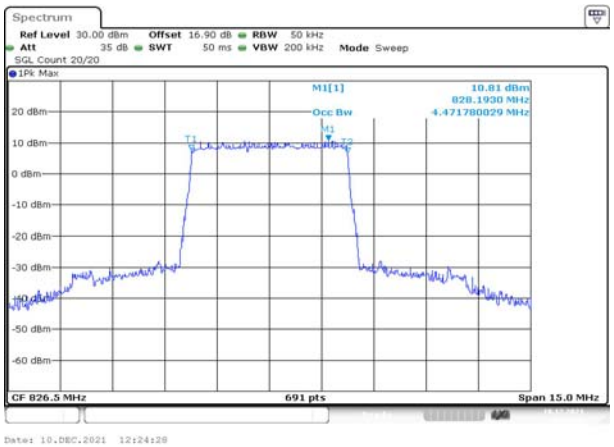


Fig.31

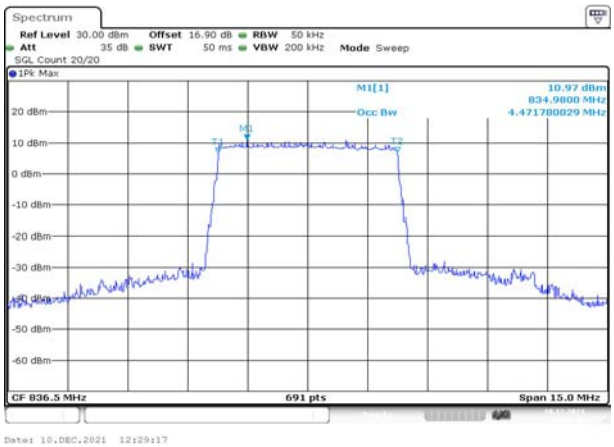


Fig.32

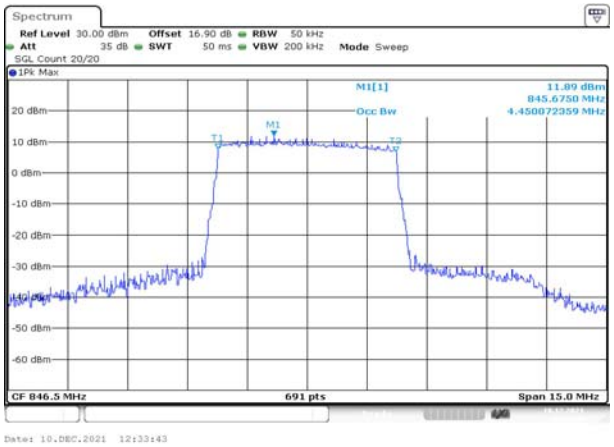


Fig.33

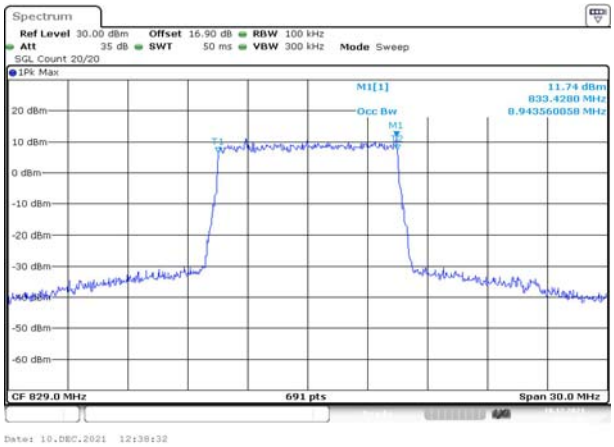
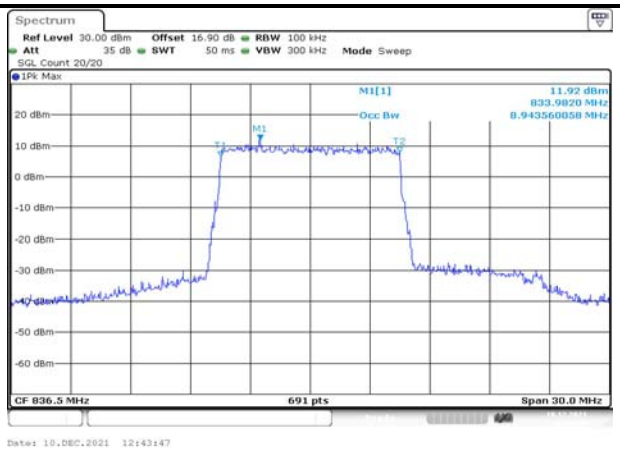


Fig.34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SGL Count 20/20
1Pk Max
M1[1] 11.92 dBm
833.9820 MHz
Occ Bw 8.943560058 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
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Span 30.0 MHz
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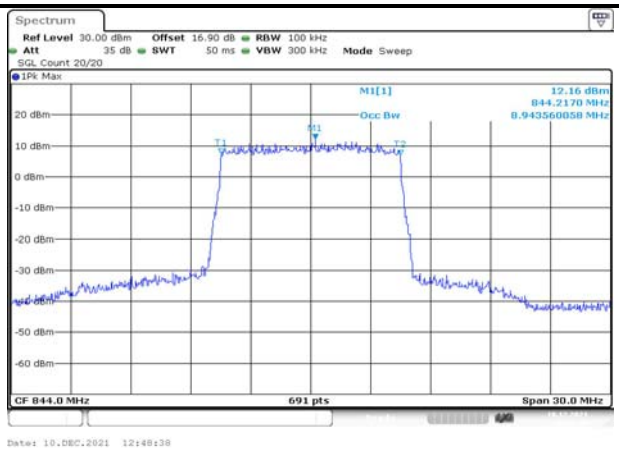
Fig.35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SGL Count 20/20
1Pk Max
M1[1] 12.16 dBm
844.2170 MHz
Occ Bw 8.943560058 MHz
20 dBm
10 dBm
0 dBm
-10 dBm
-20 dBm
-30 dBm
-50 dBm
-60 dBm
CF 844.0 MHz
691 pts
Span 30.0 MHz
Date: 10.DEC.2021 12:48:38

Fig.36

3 Emission Bandwidth

4 Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
Band 5	QPSK	824.7	20407	1.4	6	0	1.228	Fig.1
Band 5	QPSK	836.5	20525	1.4	6	0	1.216	Fig.2
Band 5	QPSK	848.3	20643	1.4	6	0	1.222	Fig.3
Band 5	QPSK	825.5	20415	3	15	0	2.983	Fig.4
Band 5	QPSK	836.5	20525	3	15	0	2.970	Fig.5
Band 5	QPSK	847.5	20635	3	15	0	3.009	Fig.6
Band 5	QPSK	826.5	20425	5	25	0	4.863	Fig.7
Band 5	QPSK	836.5	20525	5	25	0	4.928	Fig.8
Band 5	QPSK	846.5	20625	5	25	0	4.863	Fig.9
Band 5	QPSK	829	20450	10	50	0	9.725	Fig.10
Band 5	QPSK	836.5	20525	10	50	0	9.682	Fig.11
Band 5	QPSK	844	20600	10	50	0	9.725	Fig.12

5 Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
Band 5	16QAM	824.7	20407	1.4	6	0	1.234	Fig.13
Band 5	16QAM	836.5	20525	1.4	6	0	1.222	Fig.14
Band 5	16QAM	848.3	20643	1.4	6	0	1.234	Fig.15
Band 5	16QAM	825.5	20415	3	15	0	2.983	Fig.16
Band 5	16QAM	836.5	20525	3	15	0	2.970	Fig.17
Band 5	16QAM	847.5	20635	3	15	0	2.983	Fig.18
Band 5	16QAM	826.5	20425	5	25	0	4.884	Fig.19
Band 5	16QAM	836.5	20525	5	25	0	4.884	Fig.20
Band 5	16QAM	846.5	20625	5	25	0	4.863	Fig.21
Band 5	16QAM	829	20450	10	50	0	9.595	Fig.22
Band 5	16QAM	836.5	20525	10	50	0	9.725	Fig.23
Band 5	16QAM	844	20600	10	50	0	9.682	Fig.24

6 Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
Band 5	64QAM	824.7	20407	1.4	6	0	1.228	Fig.25
Band 5	64QAM	836.5	20525	1.4	6	0	1.228	Fig.26
Band 5	64QAM	848.3	20643	1.4	6	0	1.228	Fig.27
Band 5	64QAM	825.5	20415	3	15	0	2.983	Fig.28
Band 5	64QAM	836.5	20525	3	15	0	2.983	Fig.29
Band 5	64QAM	847.5	20635	3	15	0	2.970	Fig.30
Band 5	64QAM	826.5	20425	5	25	0	4.863	Fig.31
Band 5	64QAM	836.5	20525	5	25	0	4.906	Fig.32
Band 5	64QAM	846.5	20625	5	25	0	4.884	Fig.33
Band 5	64QAM	829	20450	10	50	0	9.725	Fig.34
Band 5	64QAM	836.5	20525	10	50	0	9.595	Fig.35
Band 5	64QAM	844	20600	10	50	0	9.725	Fig.36

Test Mode: QPSK

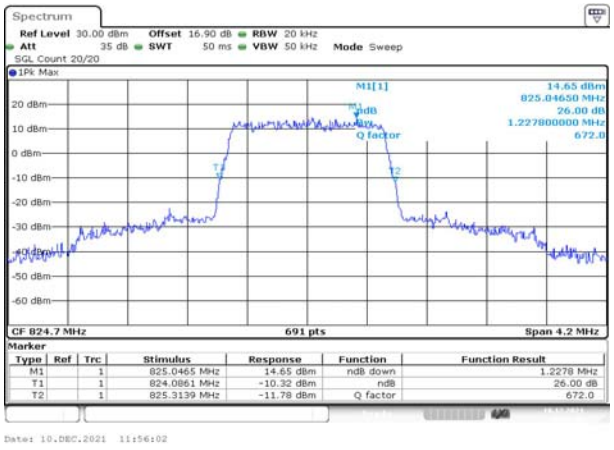


Fig.1

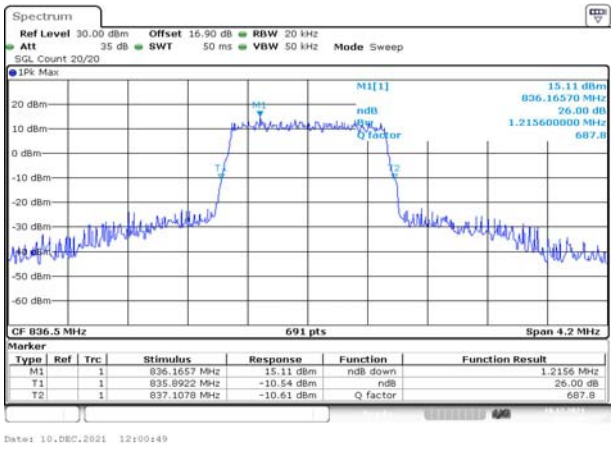


Fig.2

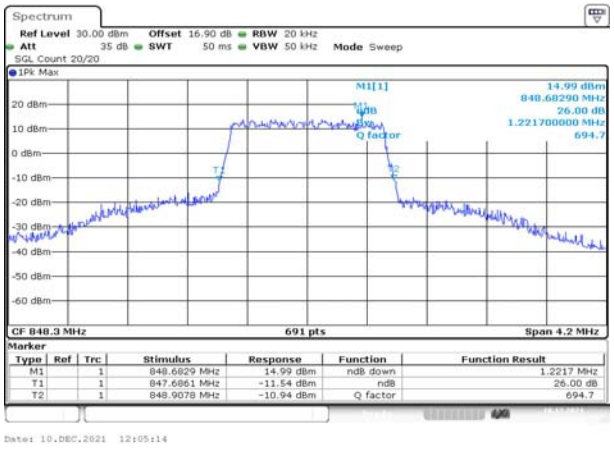


Fig.3

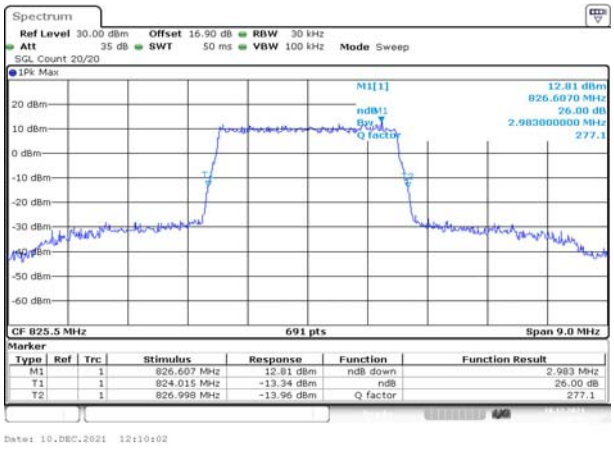


Fig.4

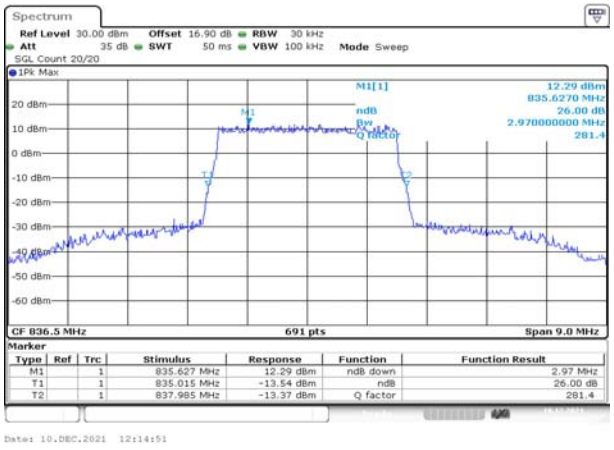


Fig.5

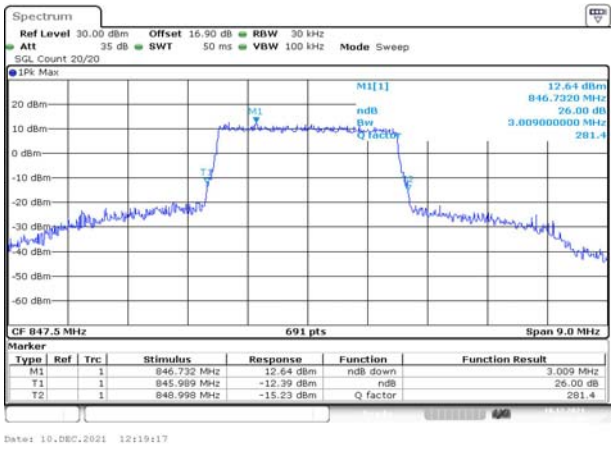


Fig.6

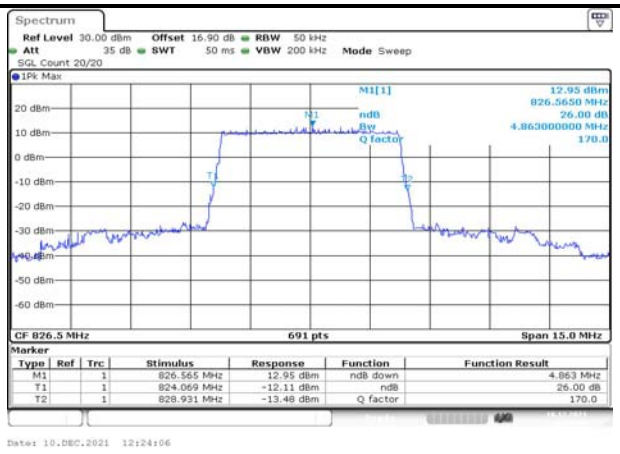


Fig.7

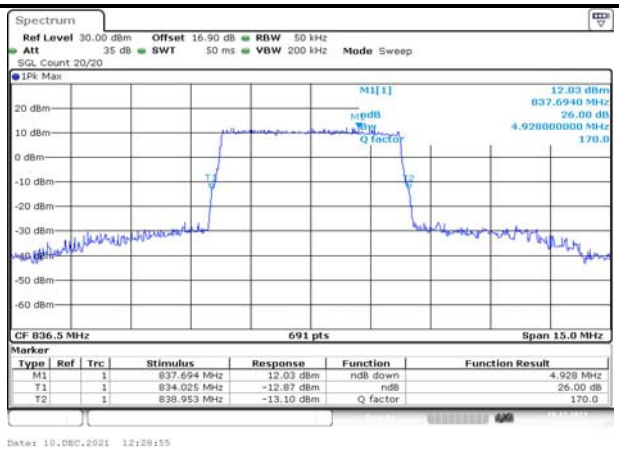


Fig.8

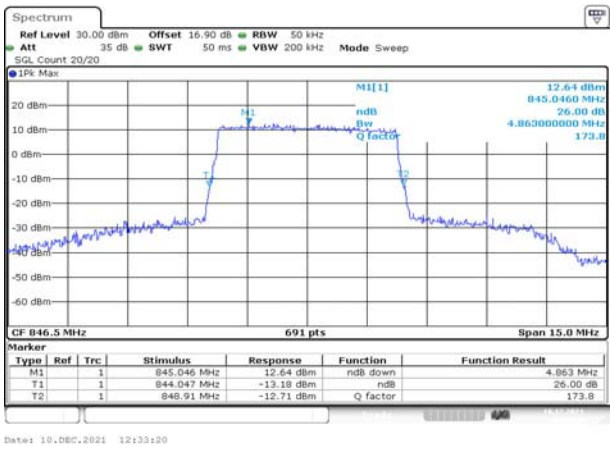


Fig.9

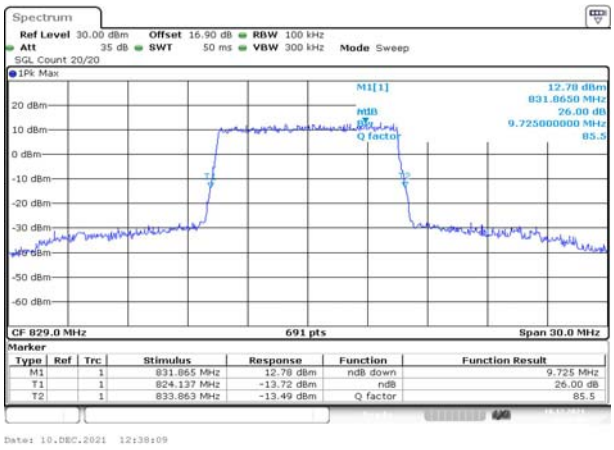


Fig.10

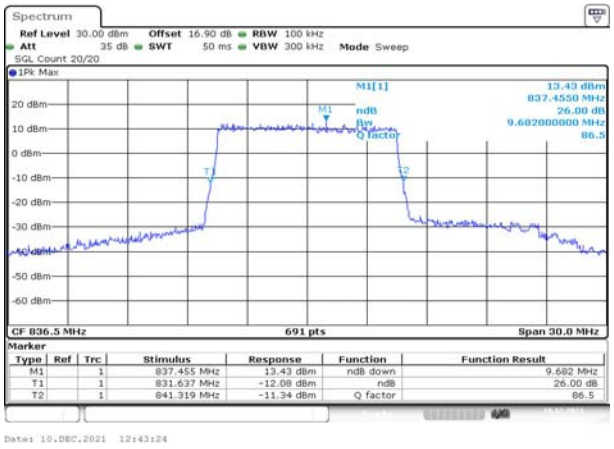


Fig.11

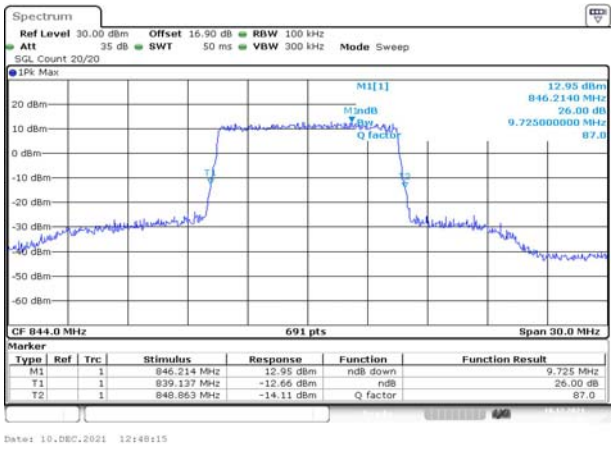


Fig.12

Test Mode: 16QAM

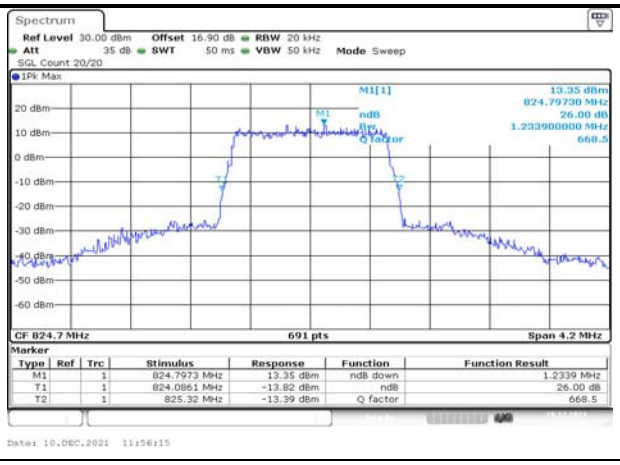


Fig.13

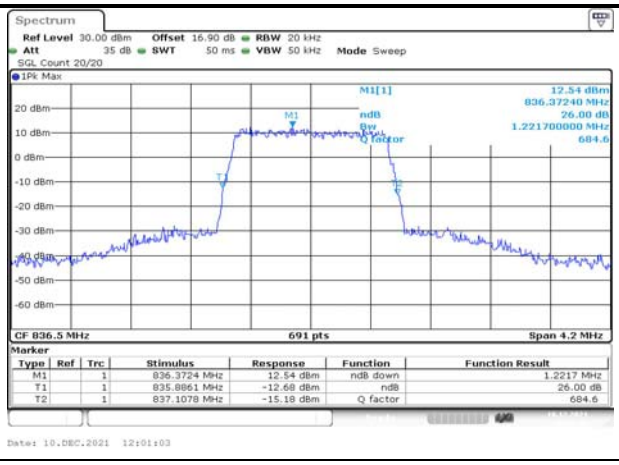


Fig.14

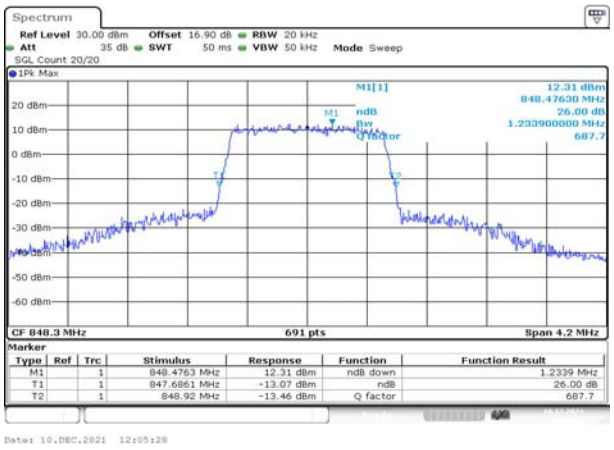


Fig.15

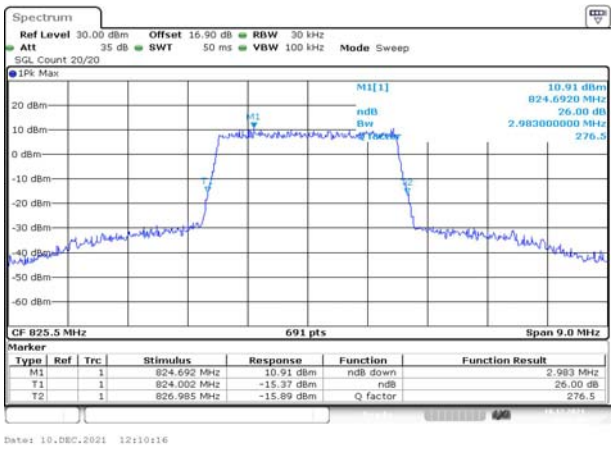
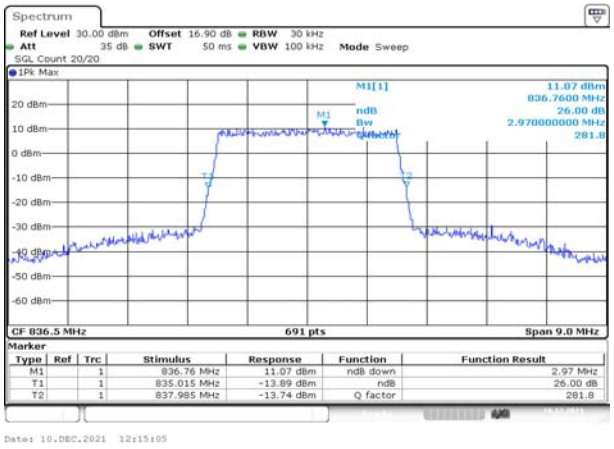


Fig.16



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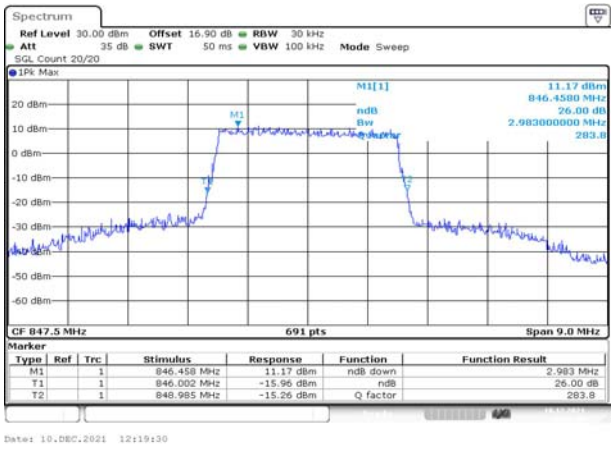

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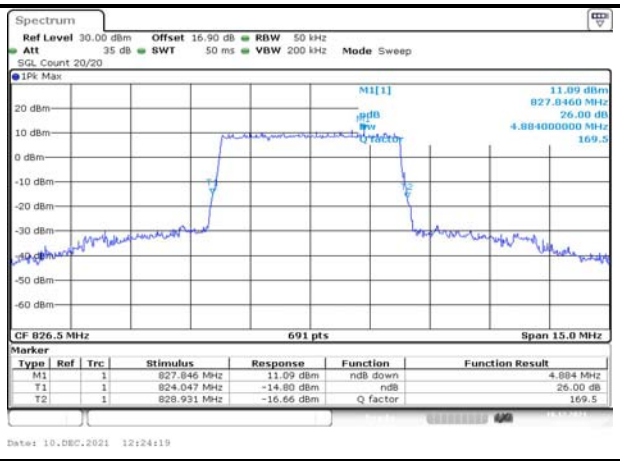

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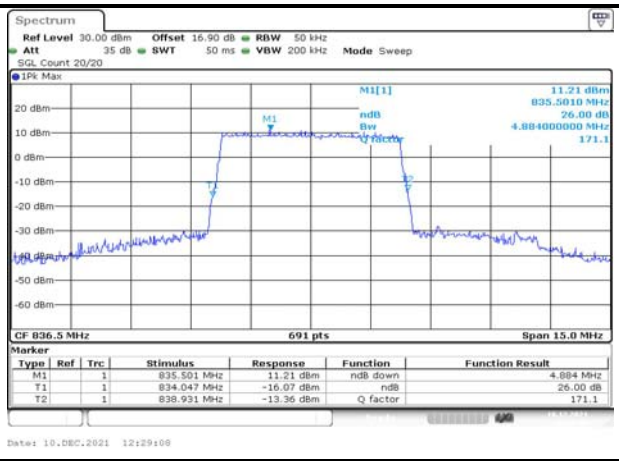

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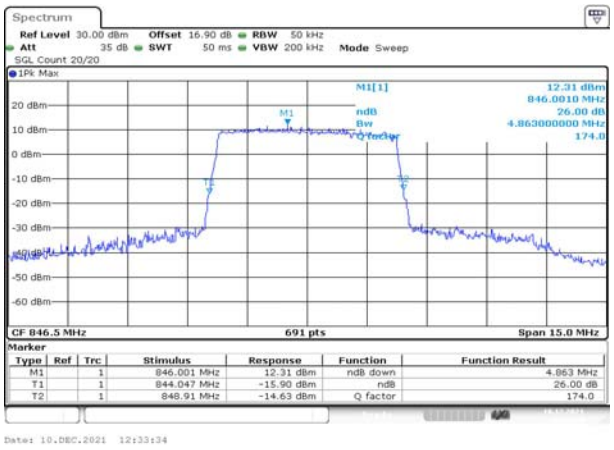

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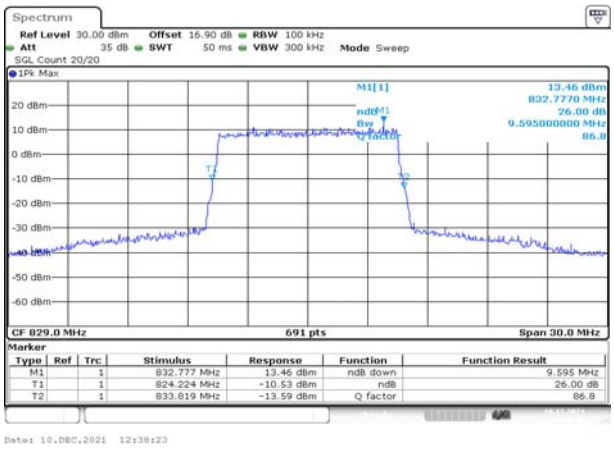

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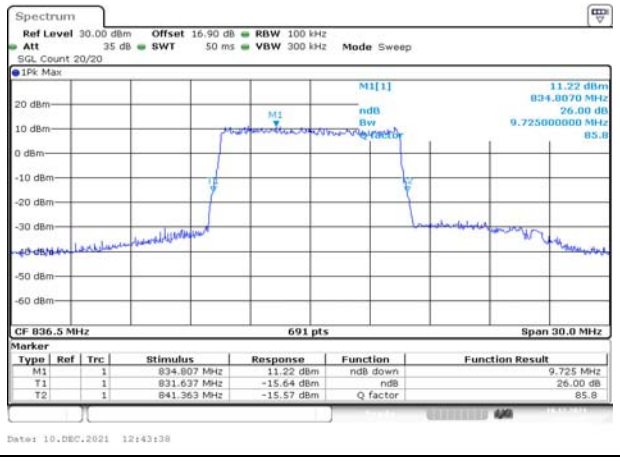

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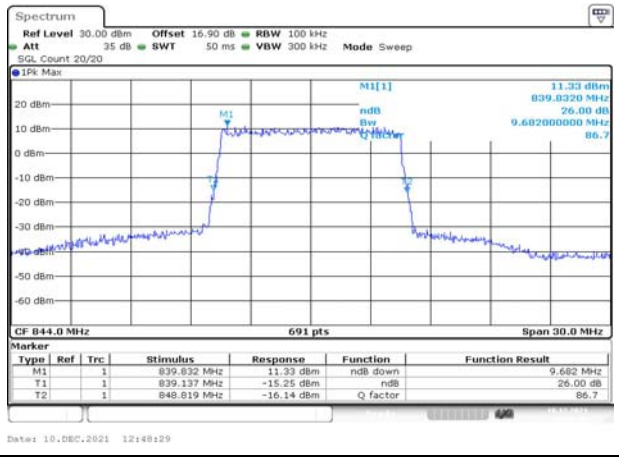
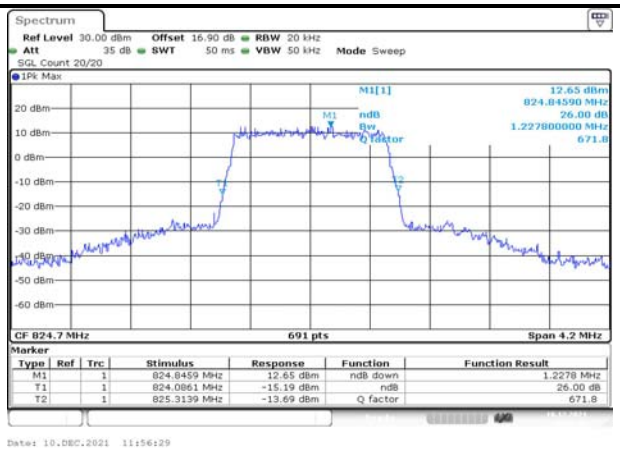


Fig.24

Test Mode: 64QAM



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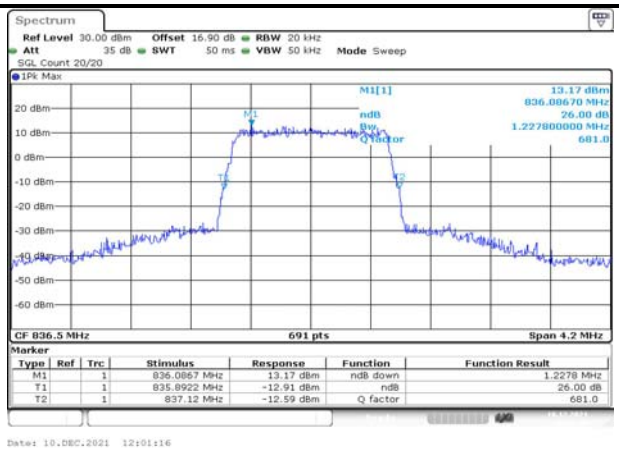

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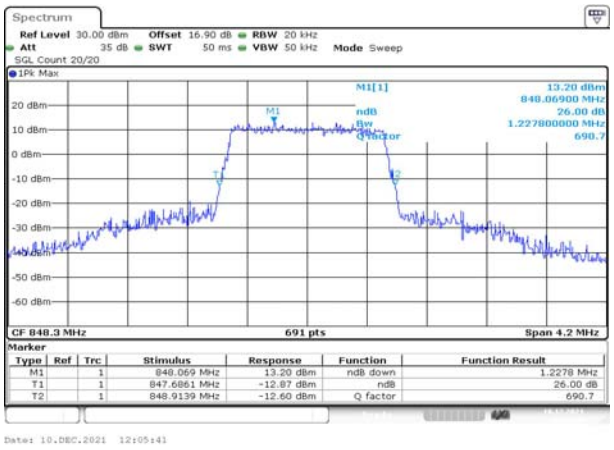

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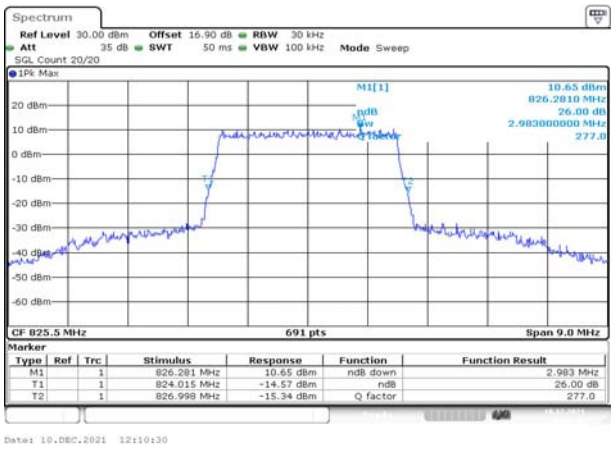

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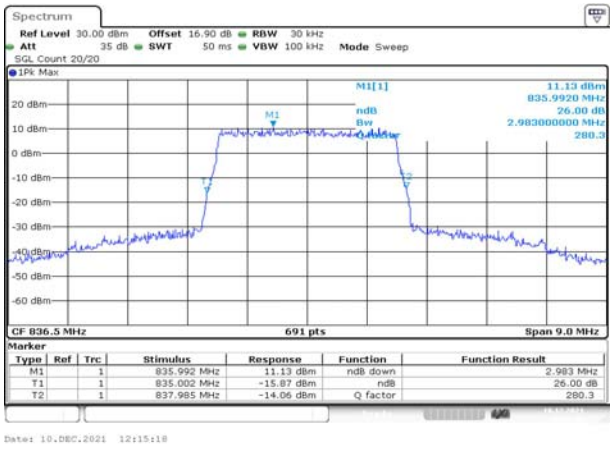

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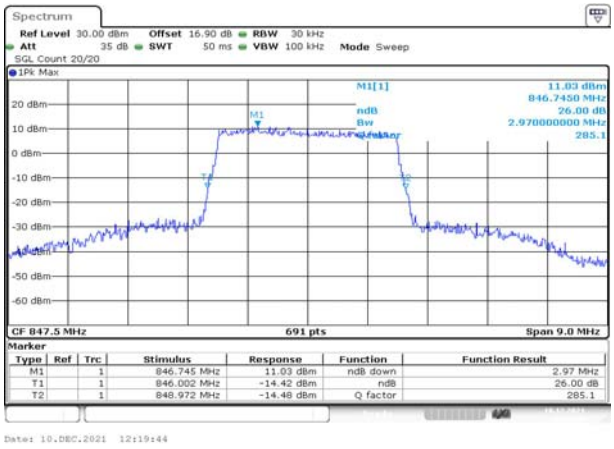

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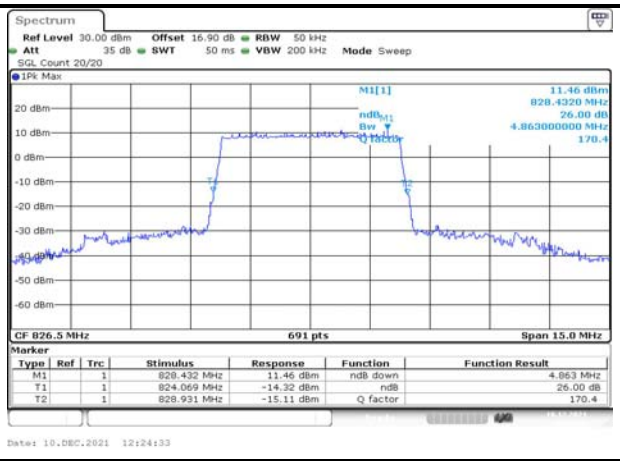

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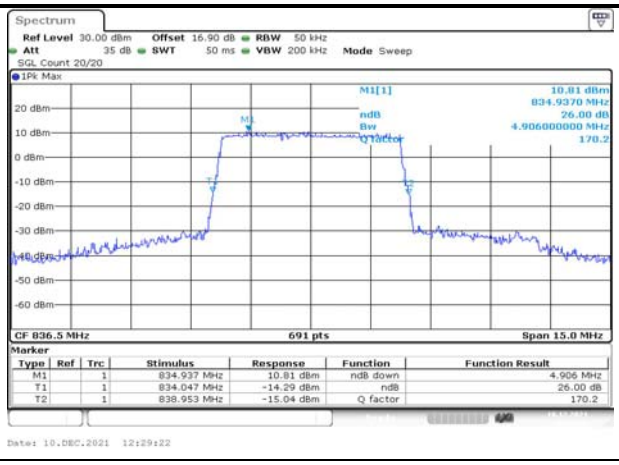

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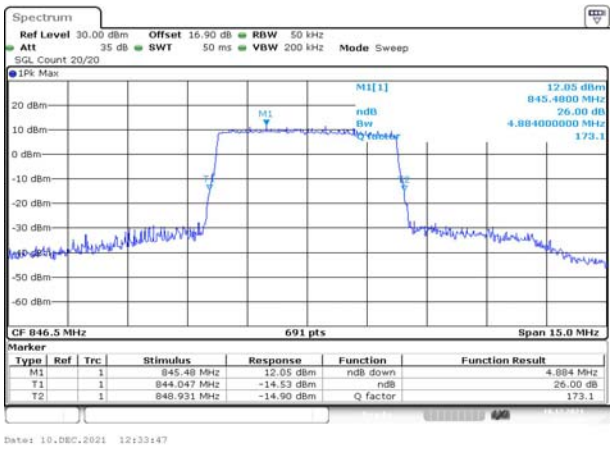

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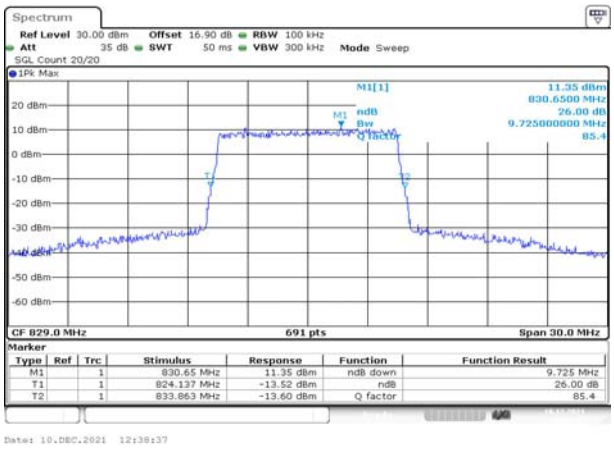


Fig.34

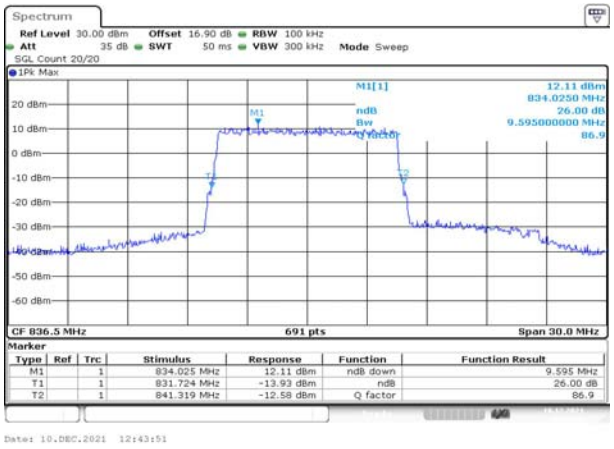


Fig.35

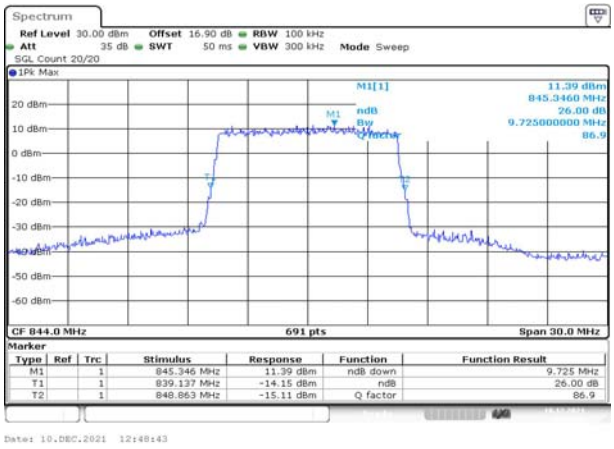


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
5	824.7	20407	1.4	1	5	Fig.1	Fig.2	Fig.3
5	824.7	20407	1.4	6	0	Fig.4	Fig.5	Fig.6
5	836.5	20525	1.4	1	5	Fig.7	Fig.8	Fig.9
5	836.5	20525	1.4	6	0	Fig.10	Fig.11	Fig.12
5	848.3	20643	1.4	1	5	Fig.13	Fig.14	Fig.15
5	848.3	20643	1.4	6	0	Fig.16	Fig.17	Fig.18
5	825.5	20415	3	1	14	Fig.19	Fig.20	Fig.21
5	825.5	20415	3	15	0	Fig.22	Fig.23	Fig.24
5	836.5	20525	3	1	14	Fig.25	Fig.26	Fig.27
5	836.5	20525	3	15	0	Fig.28	Fig.29	Fig.30
5	847.5	20635	3	1	14	Fig.31	Fig.32	Fig.33
5	847.5	20635	3	15	0	Fig.34	Fig.35	Fig.36
5	826.5	20425	5	1	24	Fig.37	Fig.38	Fig.39
5	826.5	20425	5	25	0	Fig.40	Fig.41	Fig.42
5	836.5	20525	5	1	24	Fig.43	Fig.44	Fig.45
5	836.5	20525	5	25	0	Fig.46	Fig.47	Fig.48
5	846.5	20625	5	1	24	Fig.49	Fig.50	Fig.51
5	846.5	20625	5	25	0	Fig.52	Fig.53	Fig.54
5	829	20450	10	1	49	Fig.55	Fig.56	Fig.57
5	829	20450	10	50	0	Fig.58	Fig.59	Fig.60
5	836.5	20525	10	1	49	Fig.61	Fig.62	Fig.63
5	836.5	20525	10	50	0	Fig.64	Fig.65	Fig.66
5	844	20600	10	1	49	Fig.67	Fig.68	Fig.69
5	844	20600	10	50	0	Fig.70	Fig.71	Fig.72

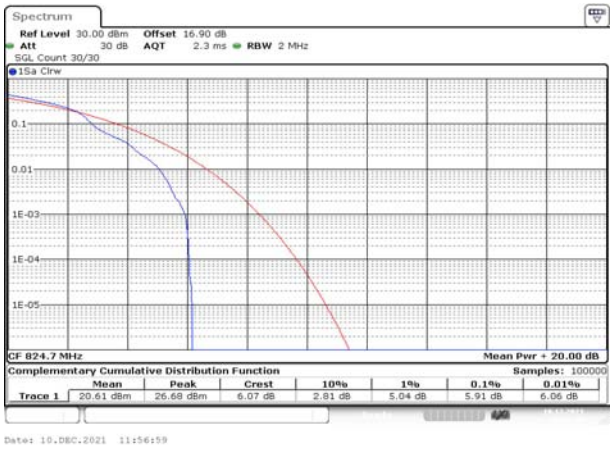


Fig.1

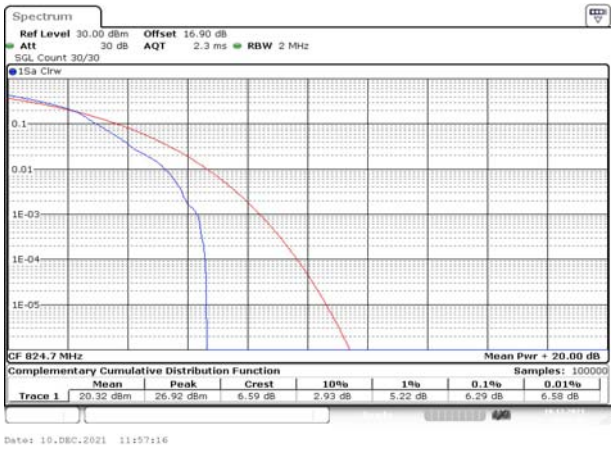
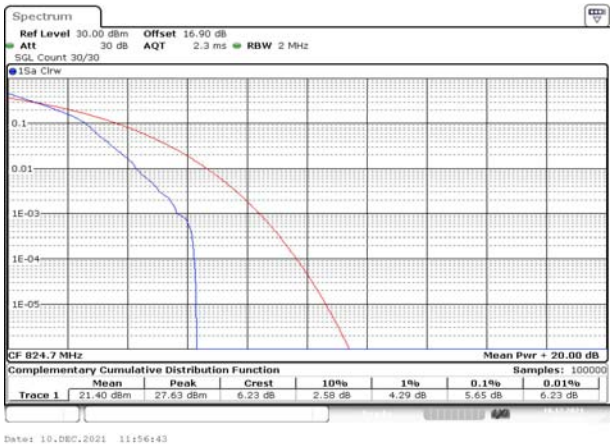


Fig.2



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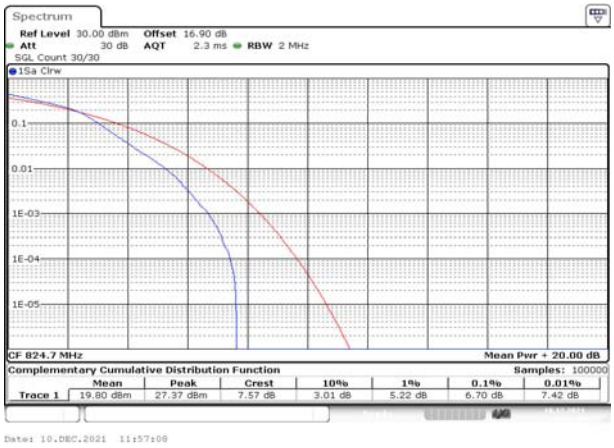


Fig.4

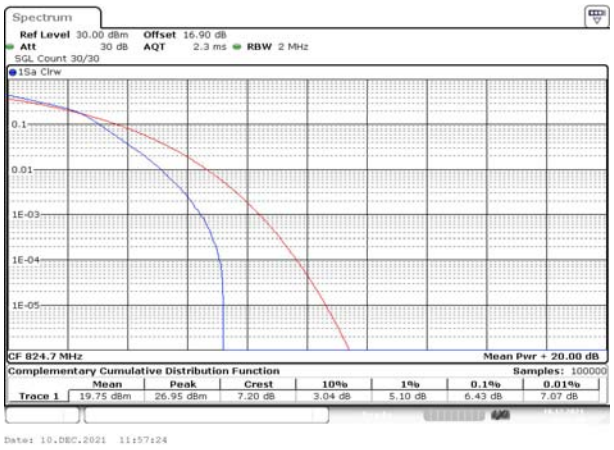


Fig.5

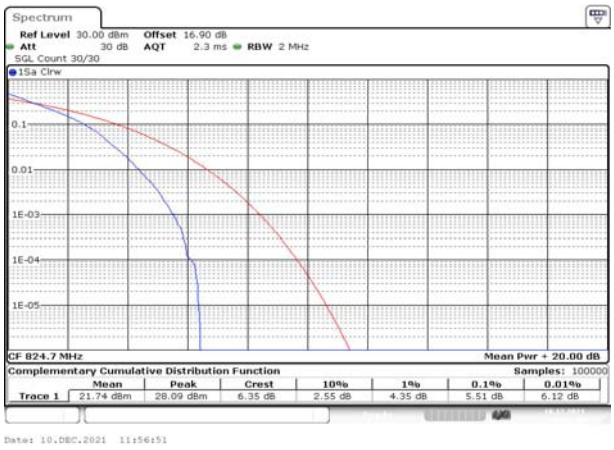


Fig.6

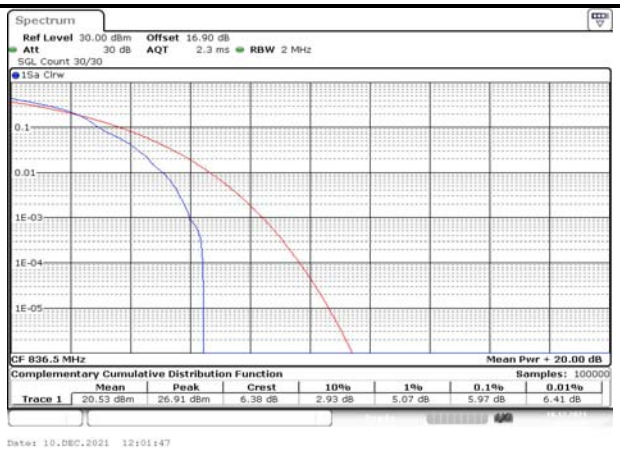


Fig.7

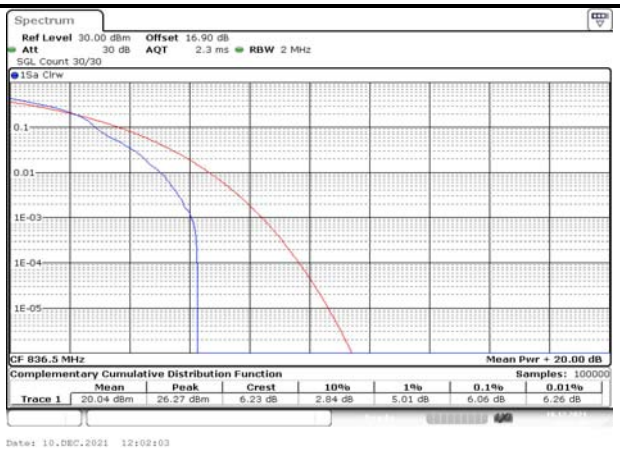


Fig.8

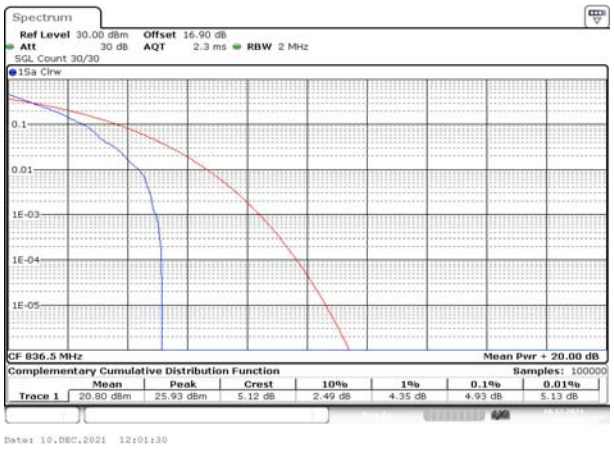


Fig.9

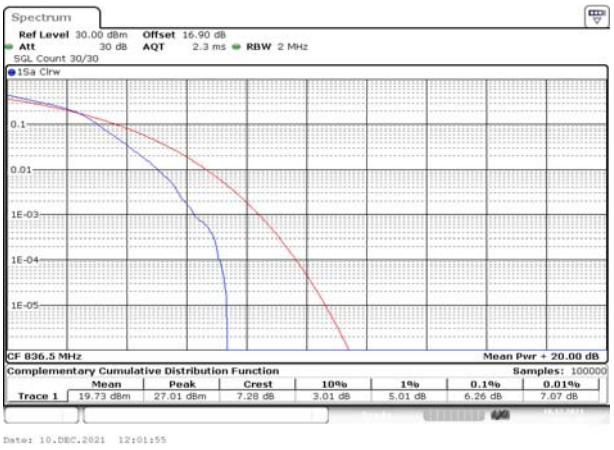


Fig.10

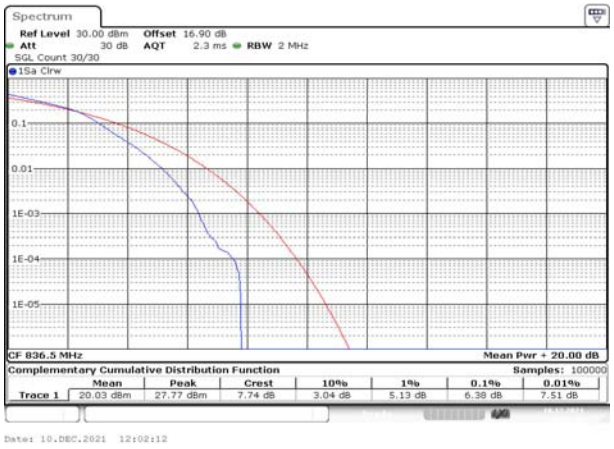


Fig.11

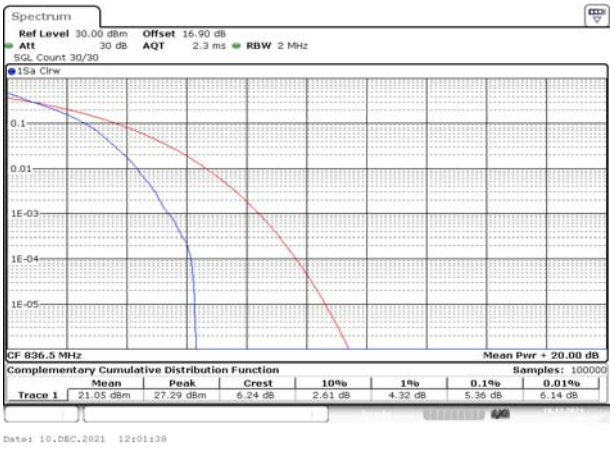


Fig.12

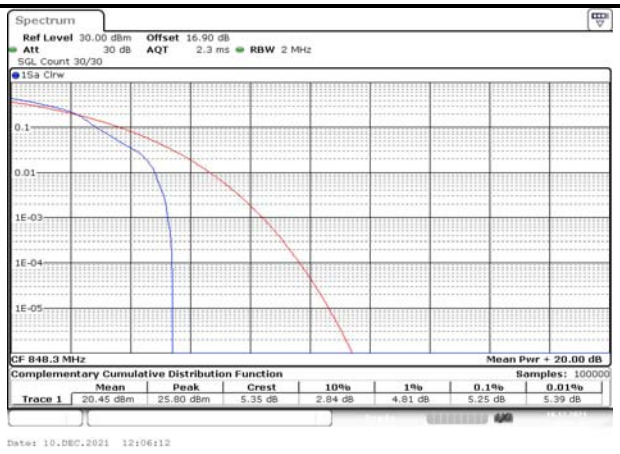


Fig.13

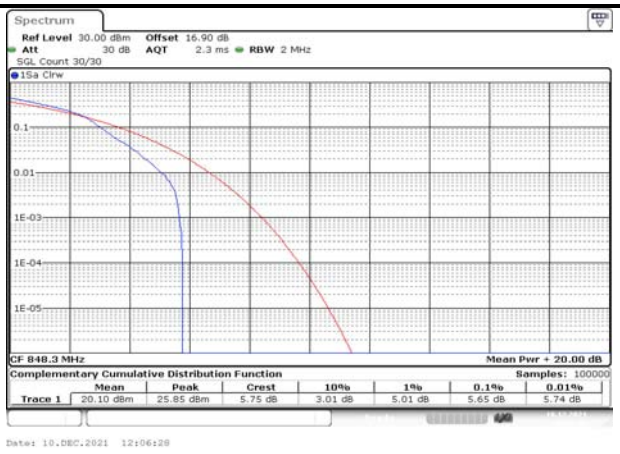


Fig.14

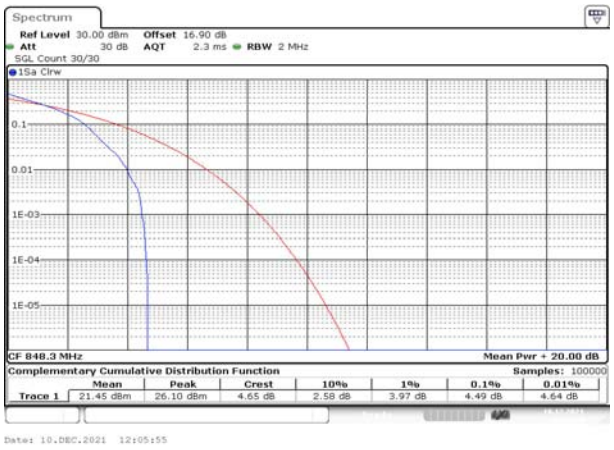


Fig.15

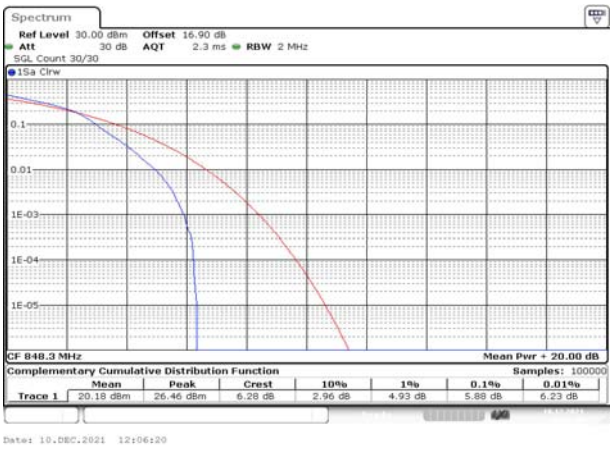


Fig.16

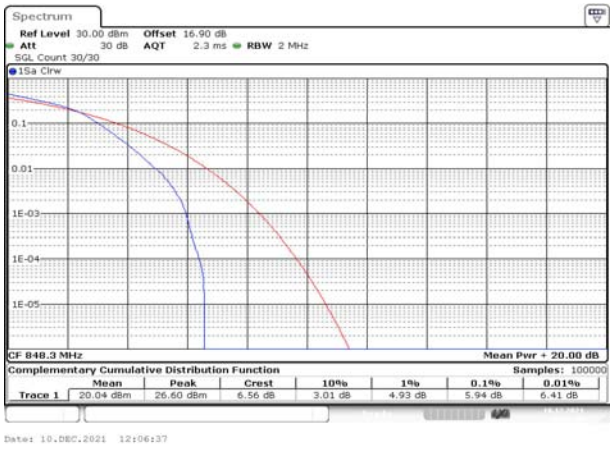
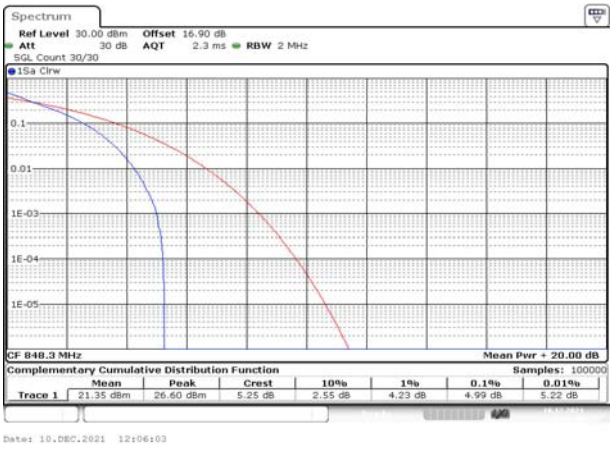


Fig.17



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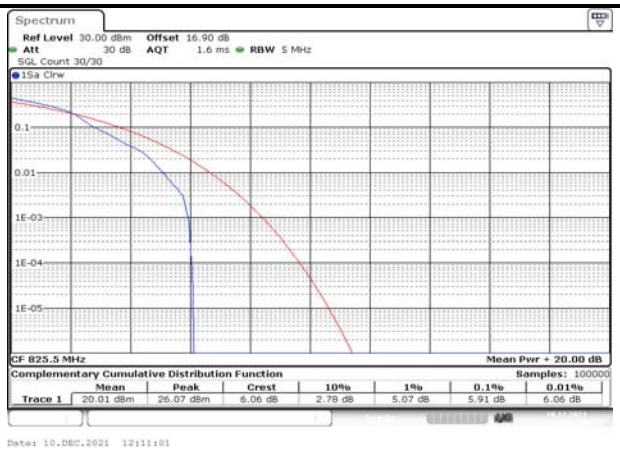
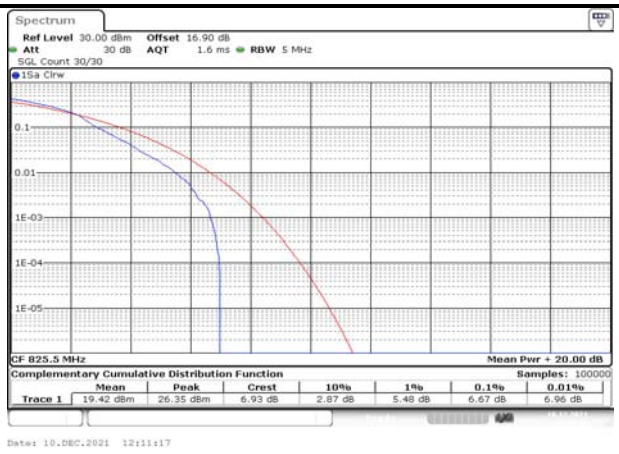


Fig.19



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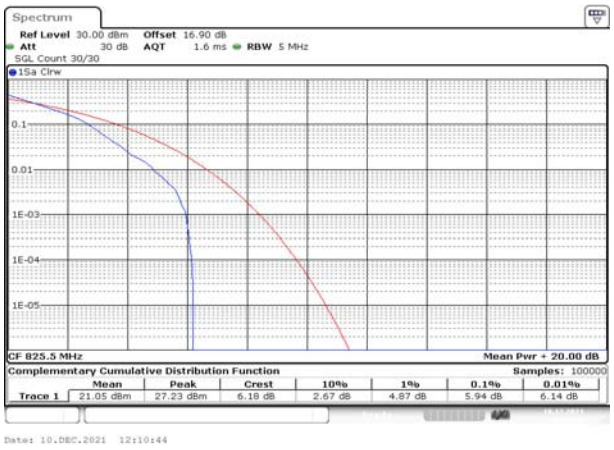

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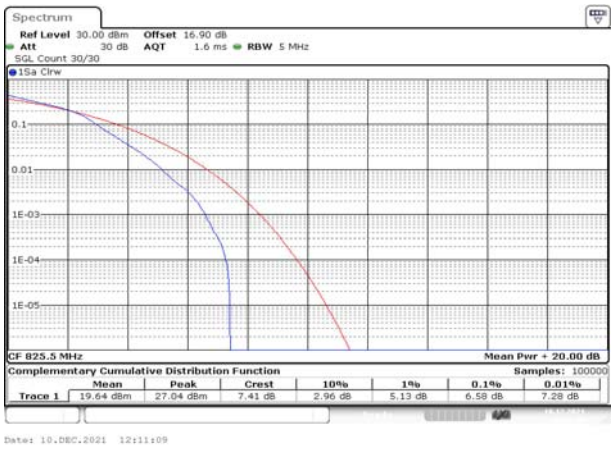

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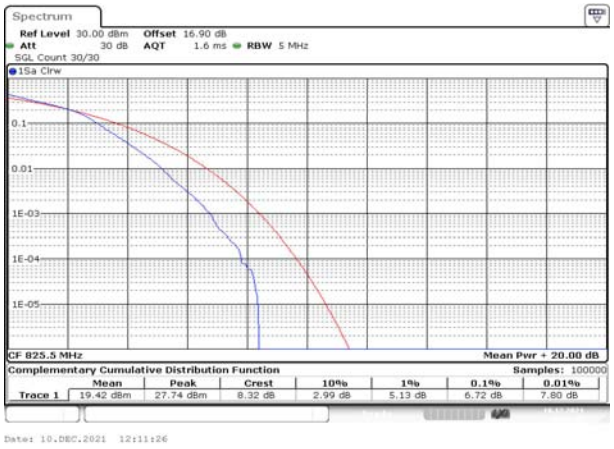

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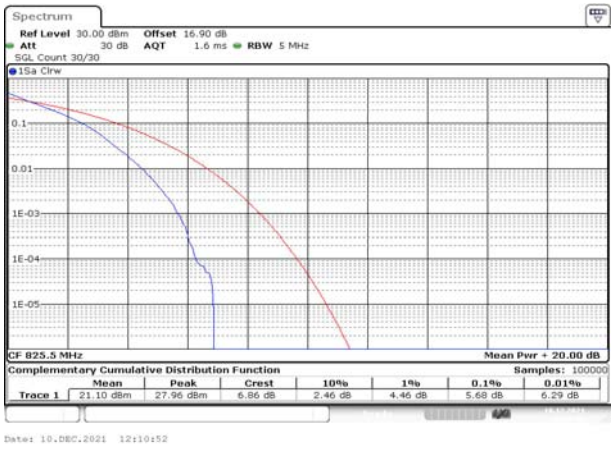

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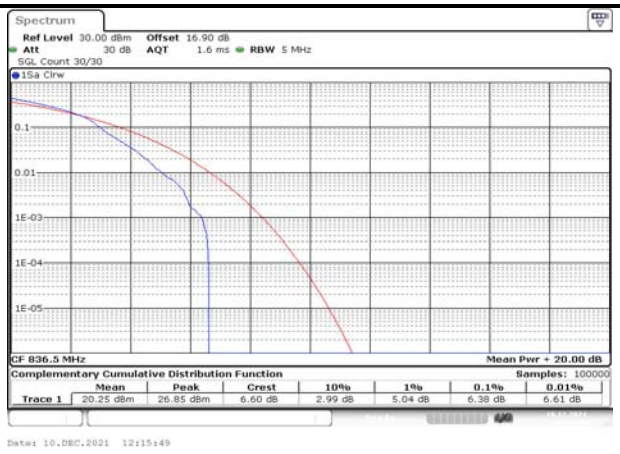


Fig.25

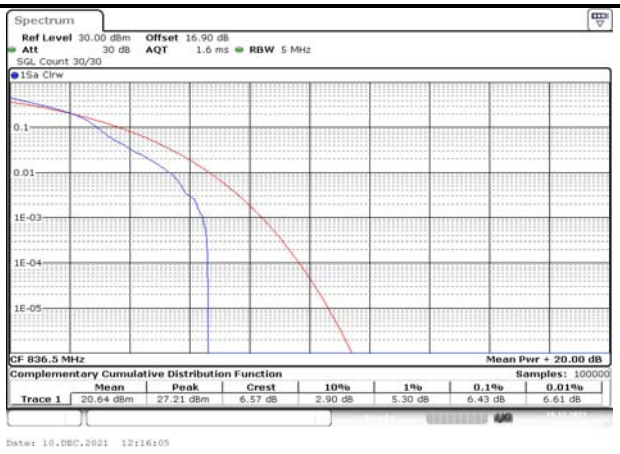


Fig.26

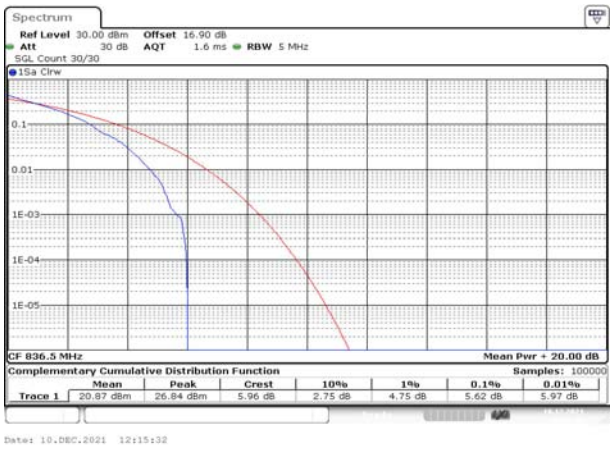


Fig.27

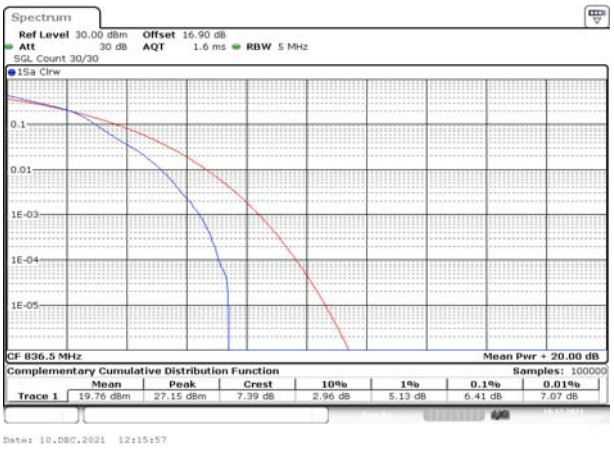


Fig.28

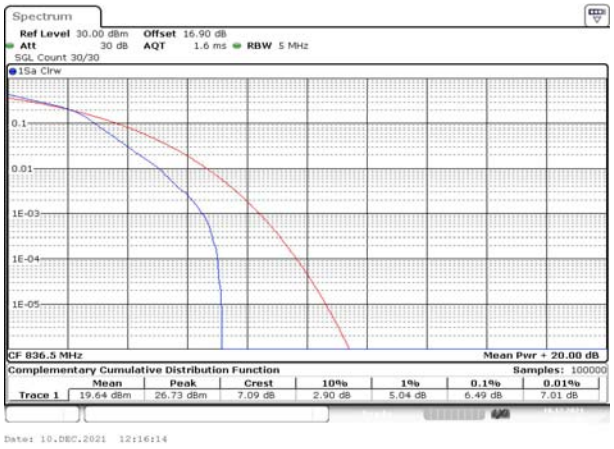
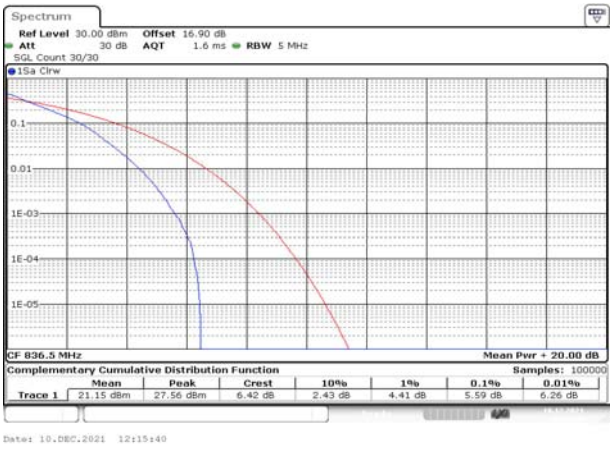


Fig.29



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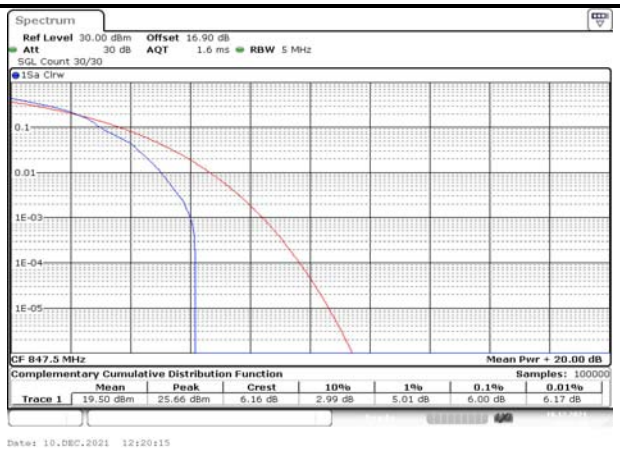

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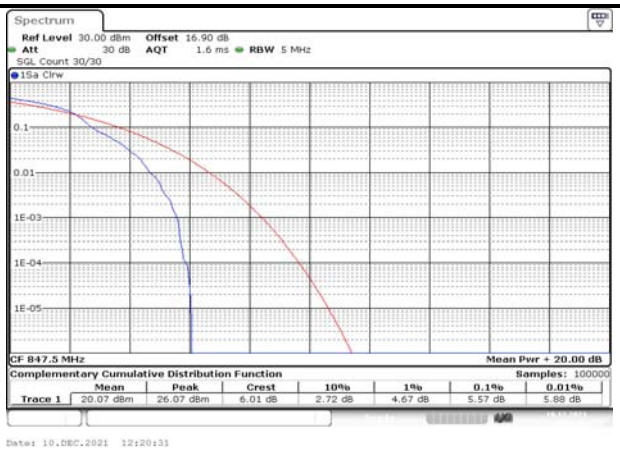

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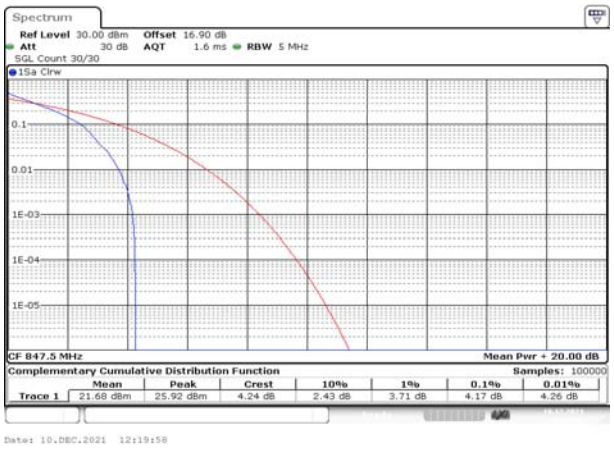

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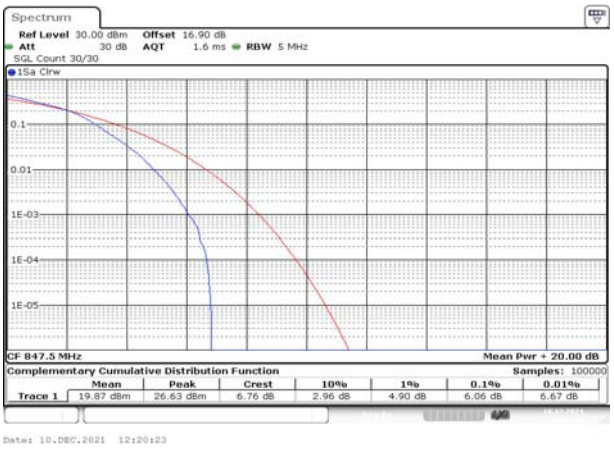

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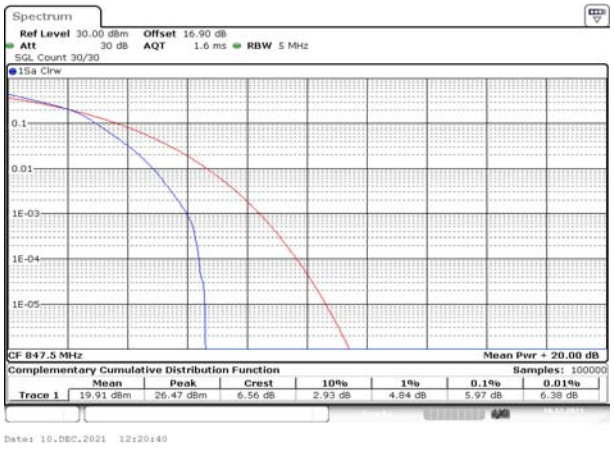

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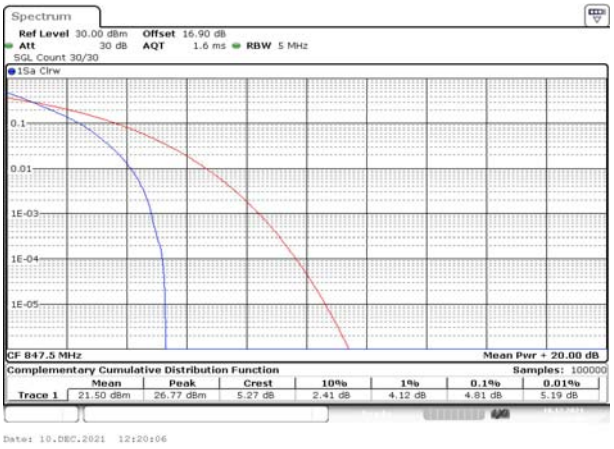

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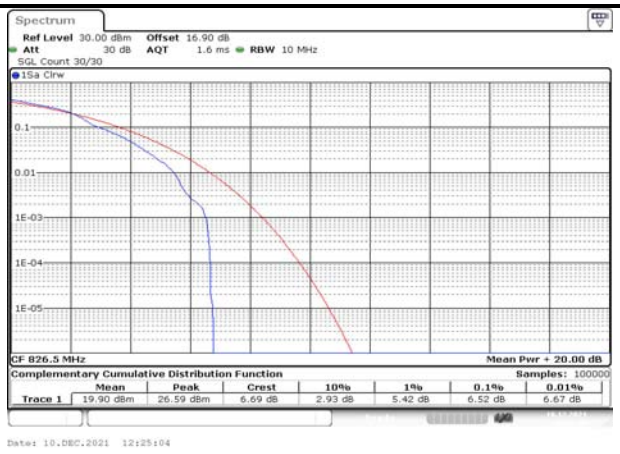

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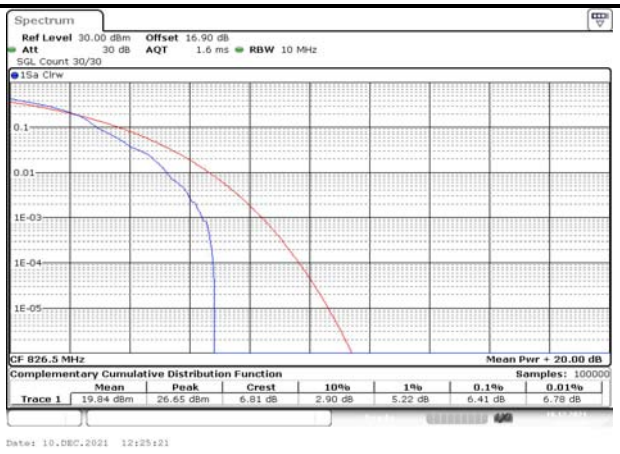

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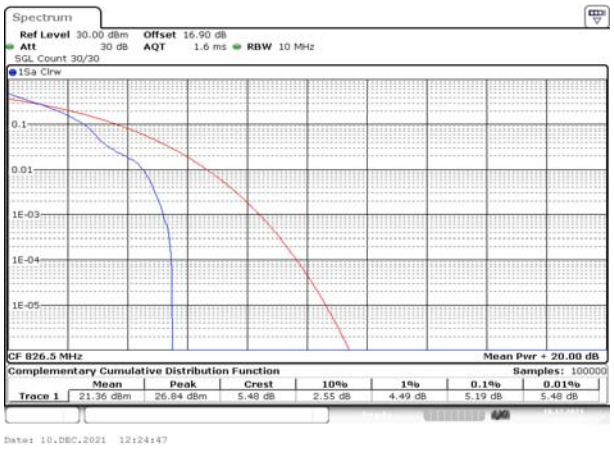

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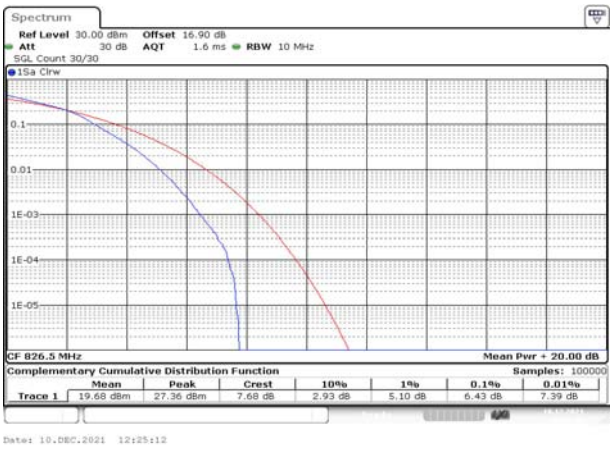

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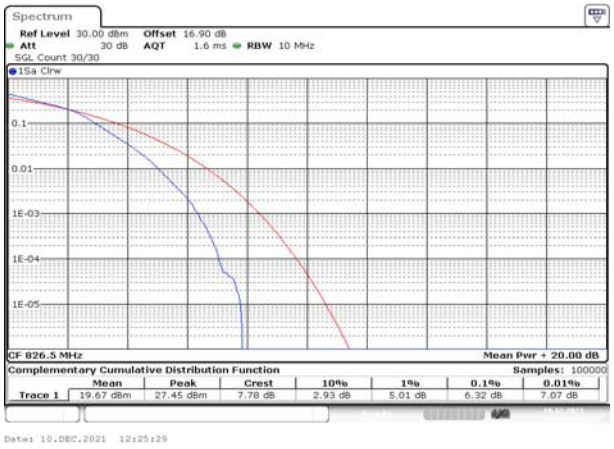

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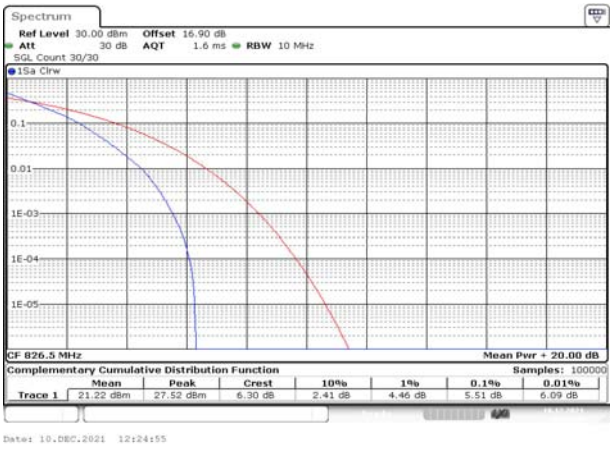

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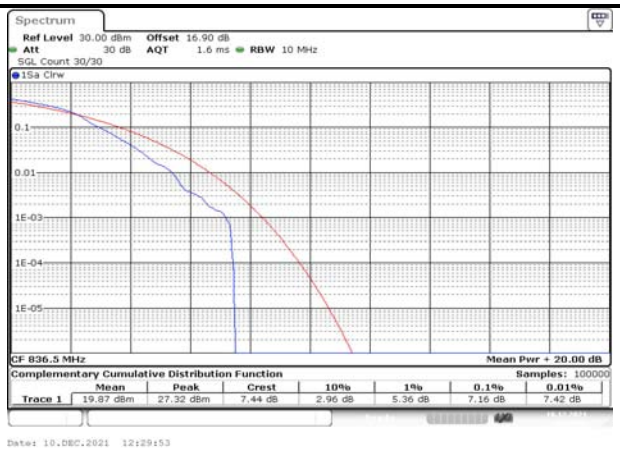

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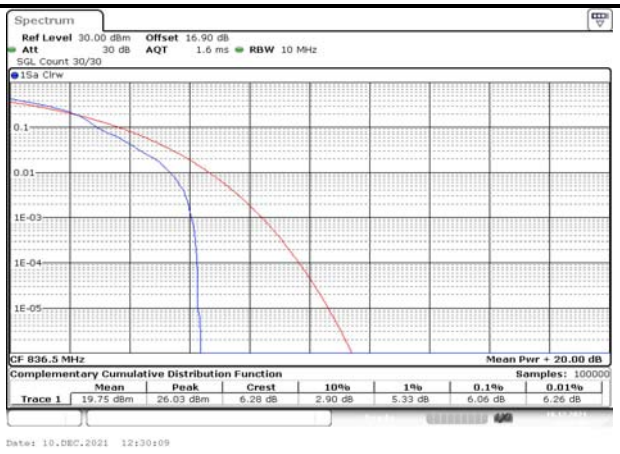

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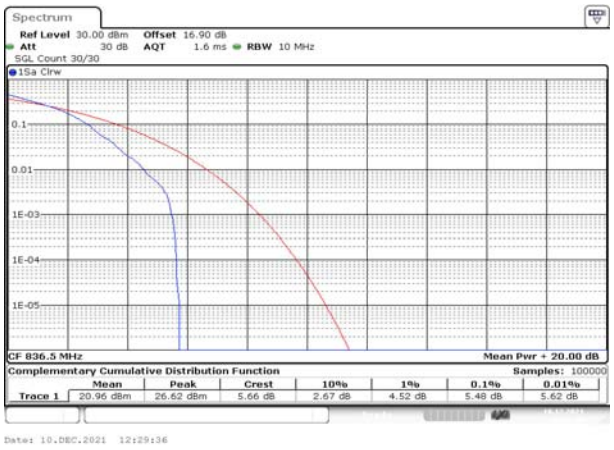

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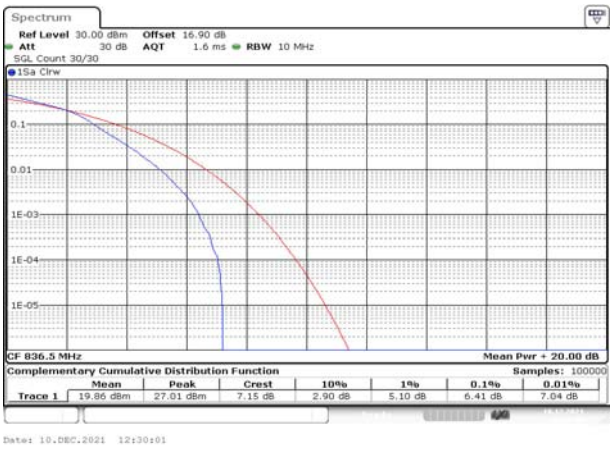

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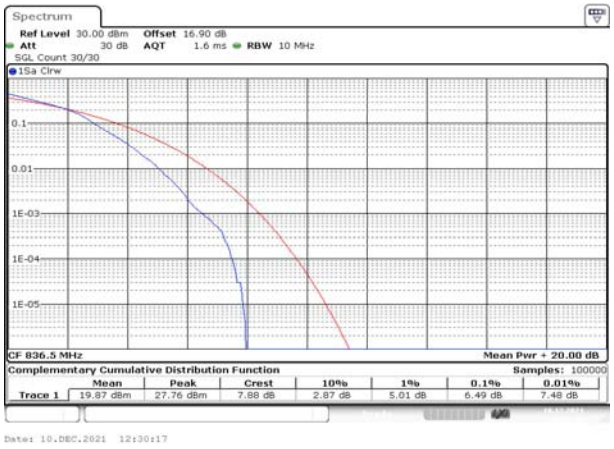

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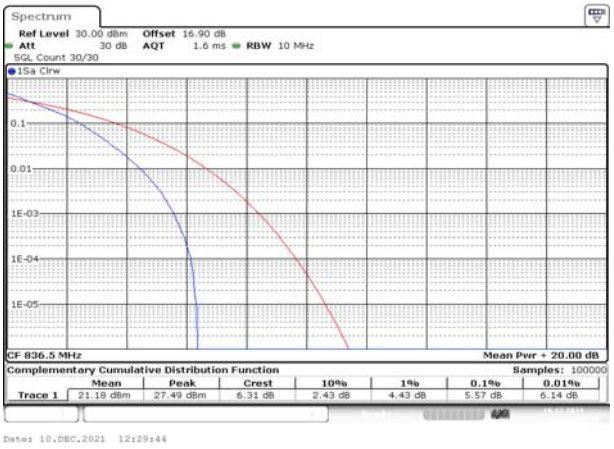

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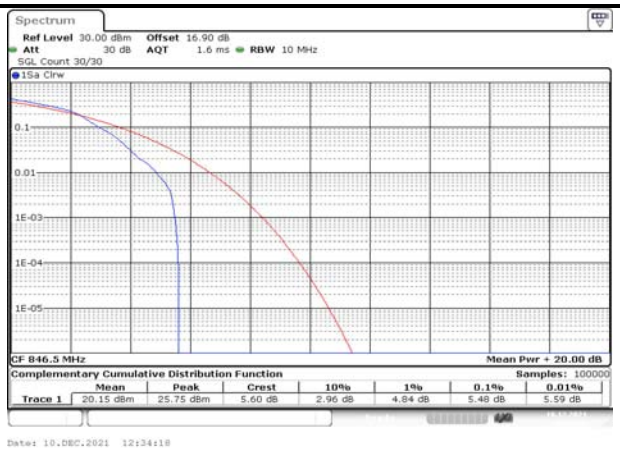

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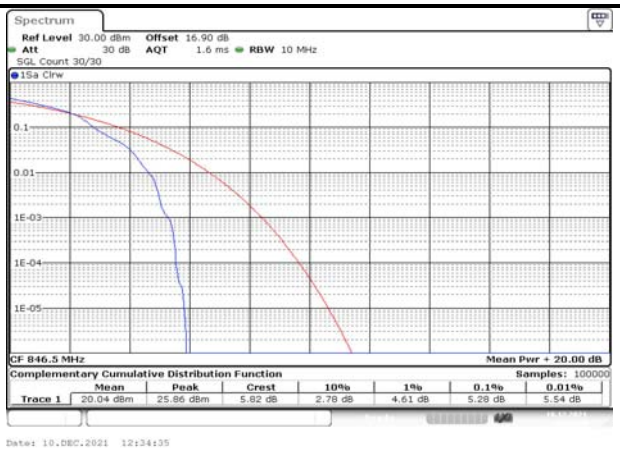

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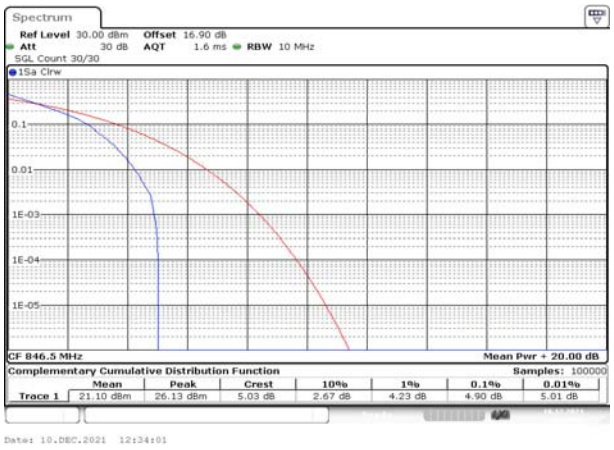

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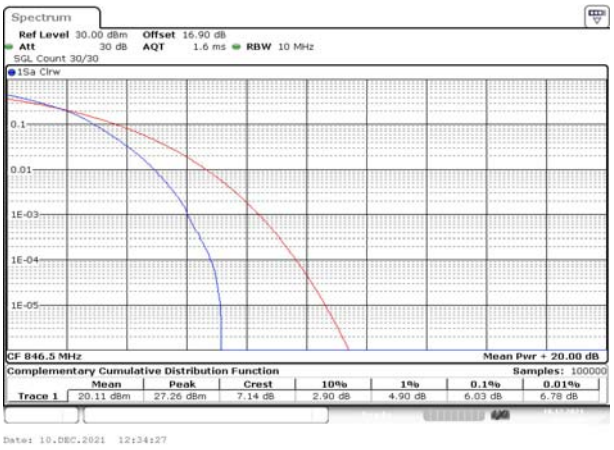

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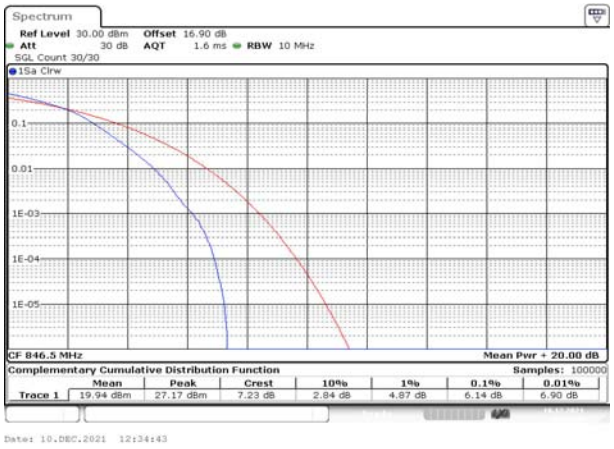

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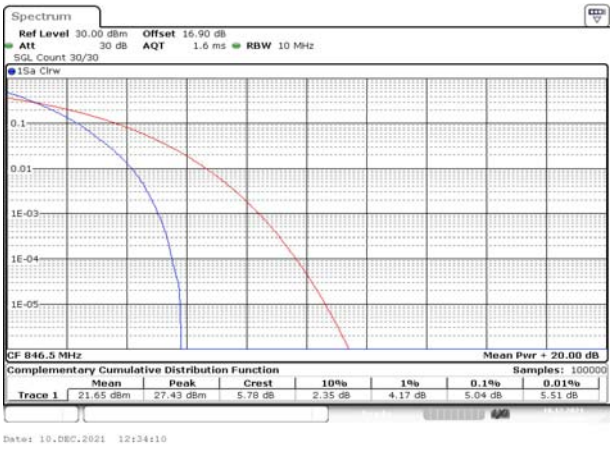

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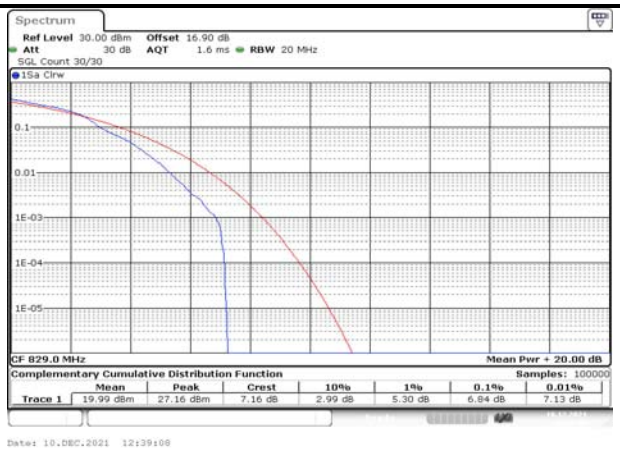

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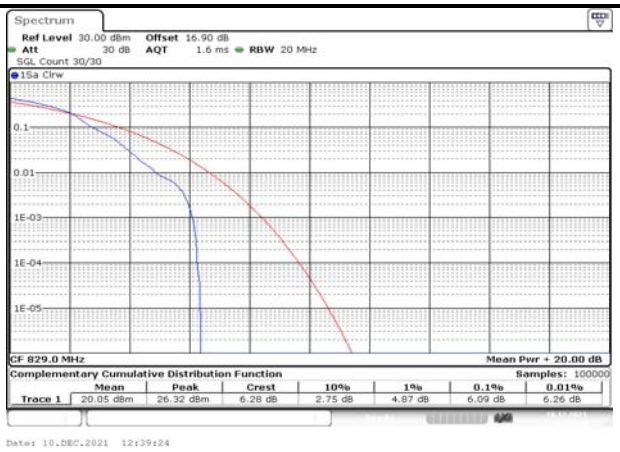

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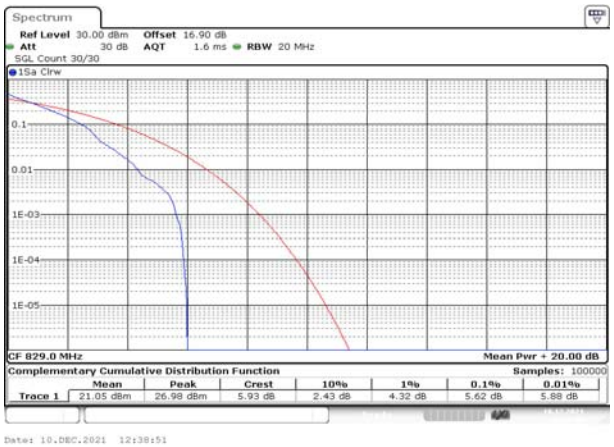

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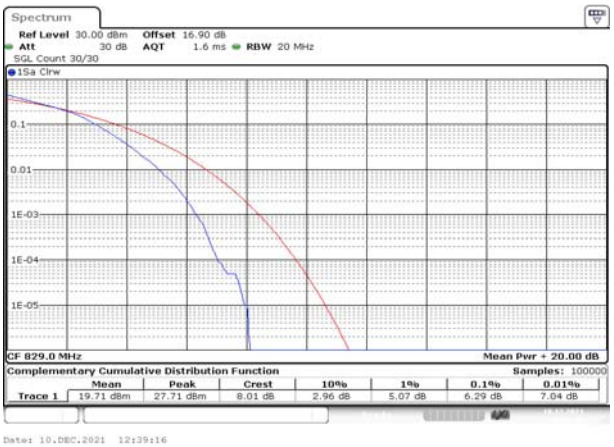

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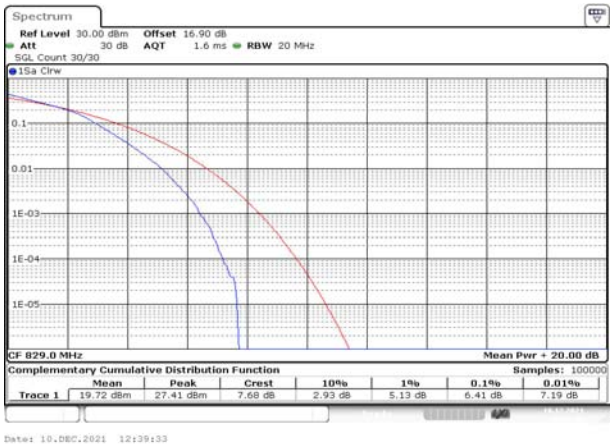

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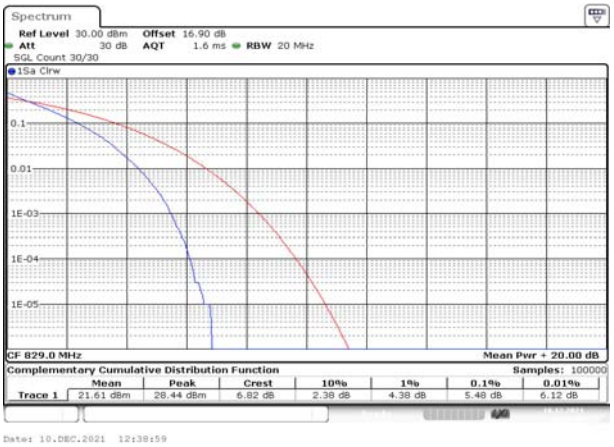

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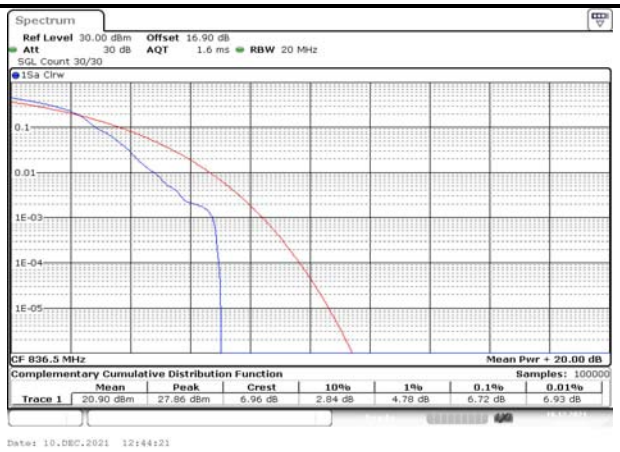

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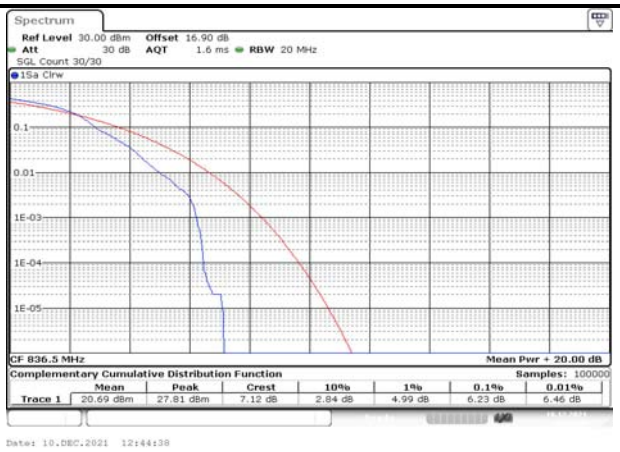

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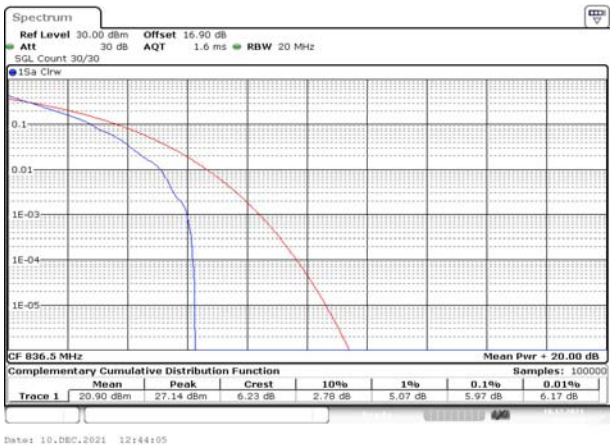

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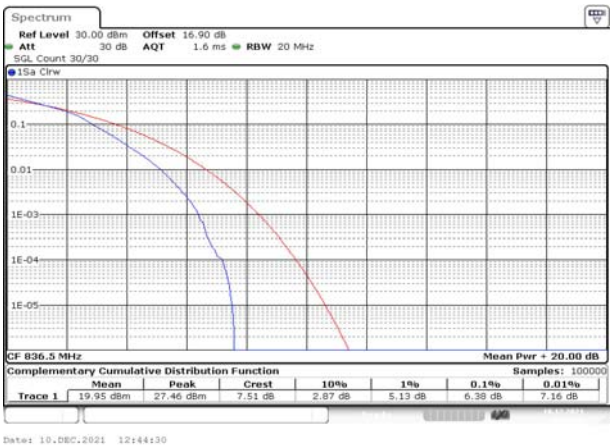

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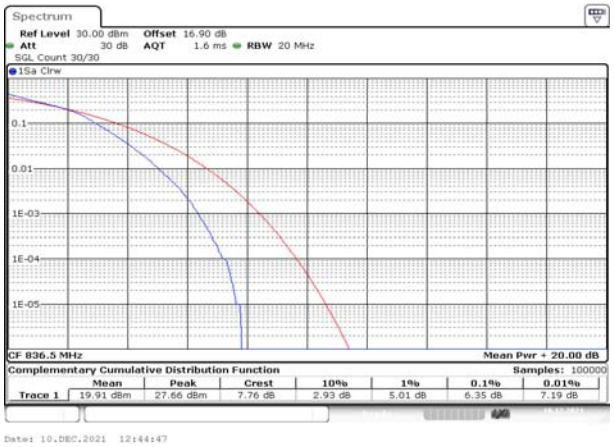

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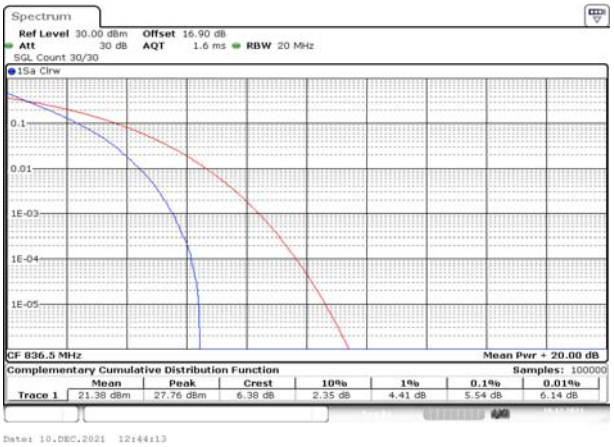

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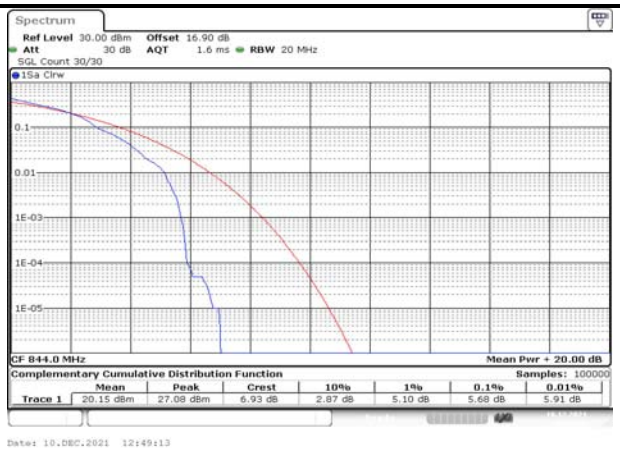

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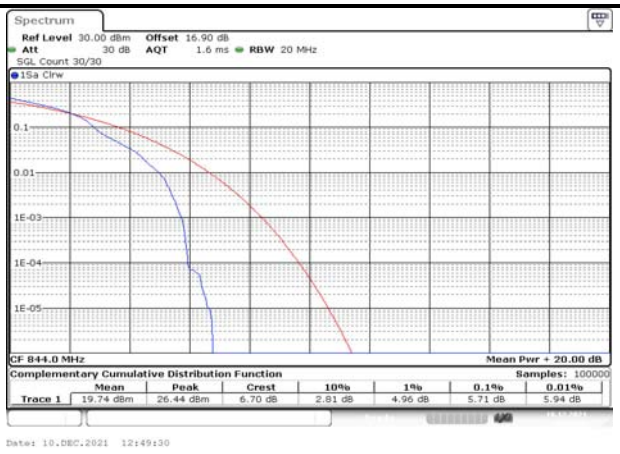

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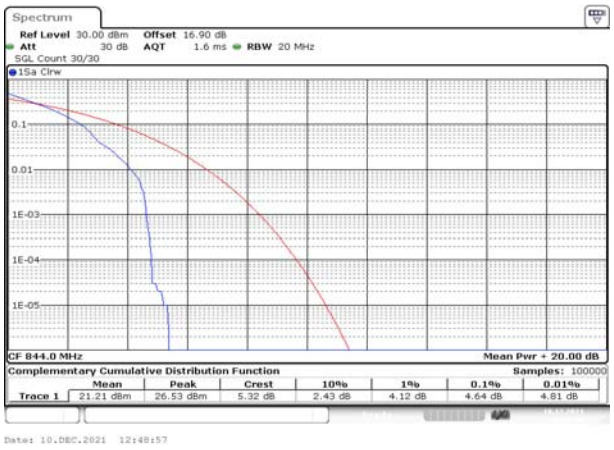

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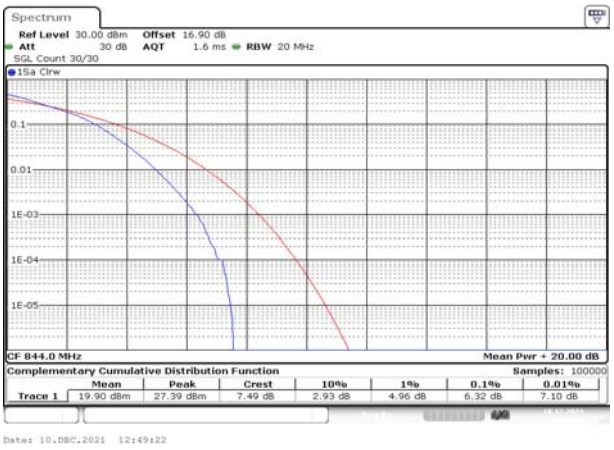

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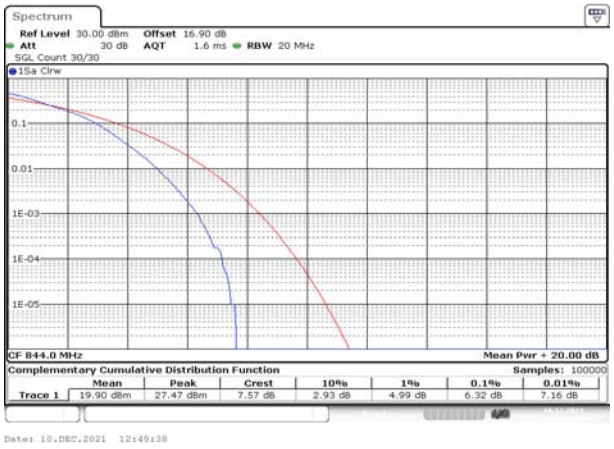

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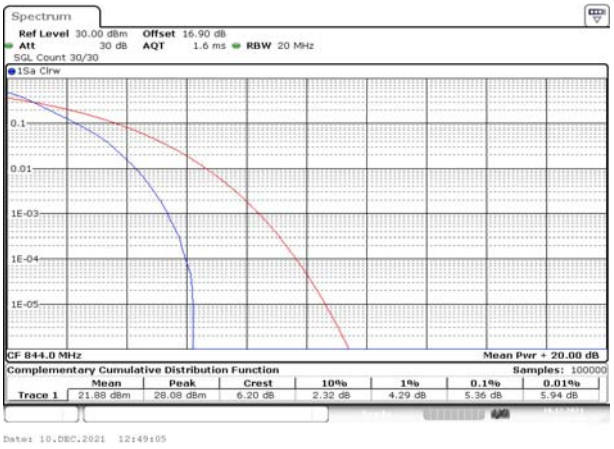

Fig.72

5 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
5	829	20450	10	1	0	Fig.1
5	836.5	20525	10	1	0	Fig.2
5	844	20600	10	1	0	Fig.3

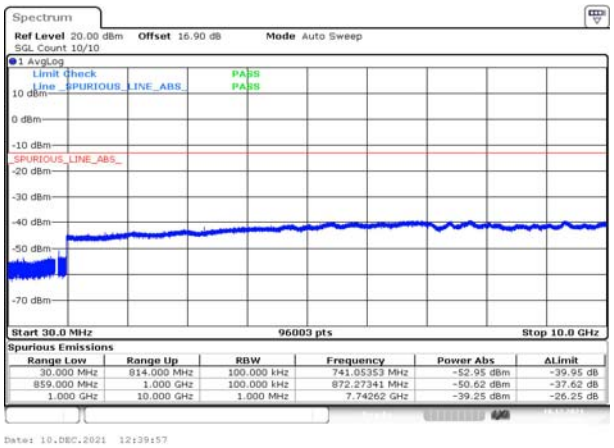

Fig.1

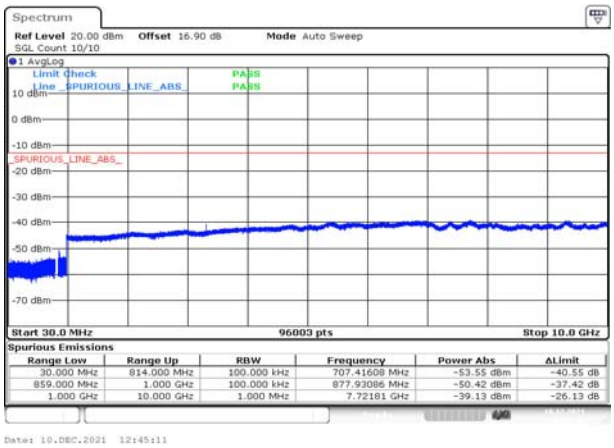

Fig.2

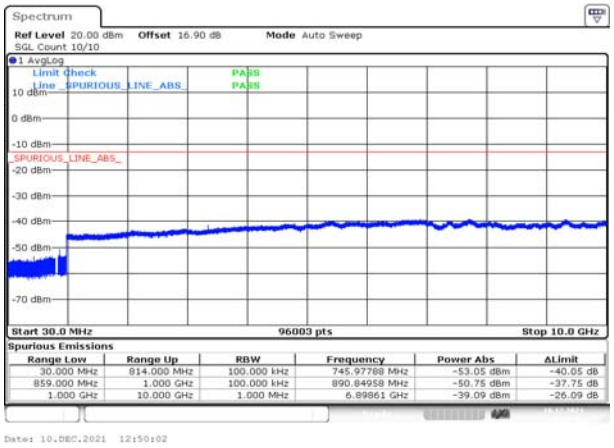

Fig.3

6 Band Edges Compliance

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
5	824.7	20407	1.4	1	0	Fig.1
5	824.7	20407	1.4	6	0	Fig.2
5	848.3	20643	1.4	1	5	Fig.3
5	848.3	20643	1.4	6	0	Fig.4
5	825.5	20415	3	1	0	Fig.5
5	825.5	20415	3	15	0	Fig.6
5	847.5	20635	3	1	14	Fig.7
5	847.5	20635	3	15	0	Fig.8
5	826.5	20425	5	1	0	Fig.9
5	826.5	20425	5	25	0	Fig.10
5	846.5	20625	5	1	24	Fig.11
5	846.5	20625	5	25	0	Fig.12
5	829	20450	10	1	0	Fig.13
5	829	20450	10	50	0	Fig.14
5	844	20600	10	1	49	Fig.15
5	844	20600	10	50	0	Fig.16

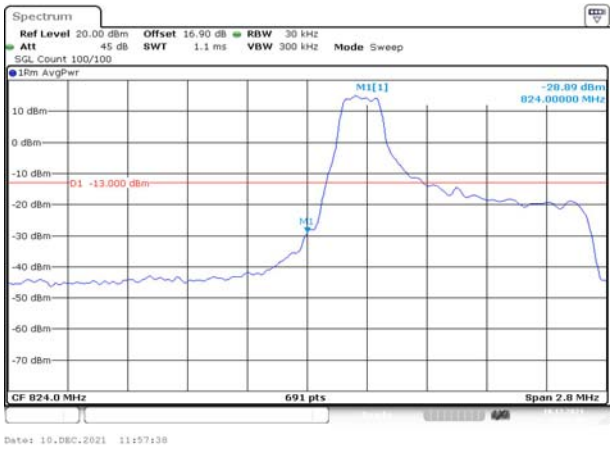

Fig.1

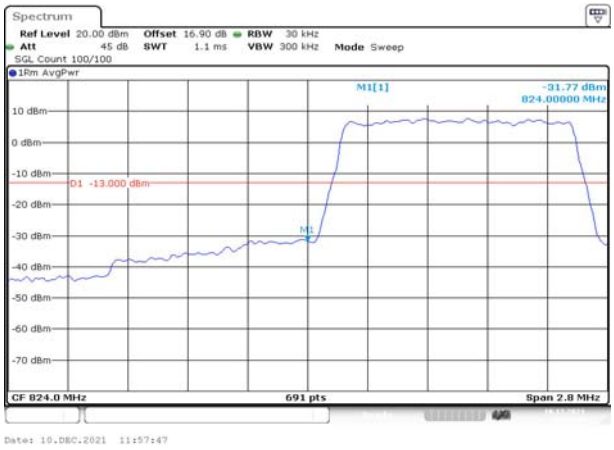

Fig.2

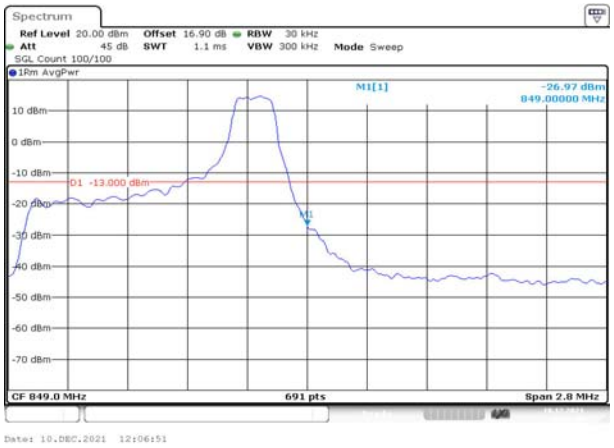

Fig.3

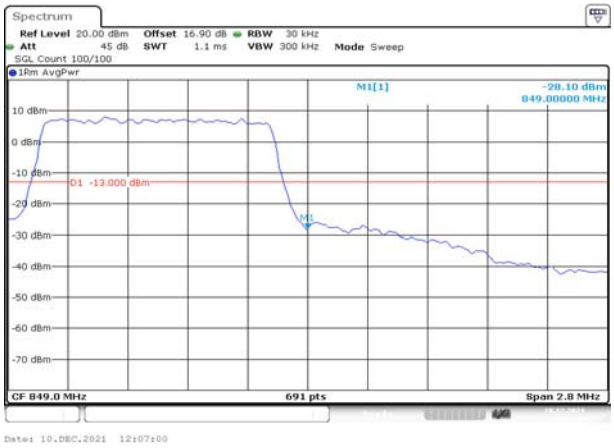

Fig.4

Fig.5

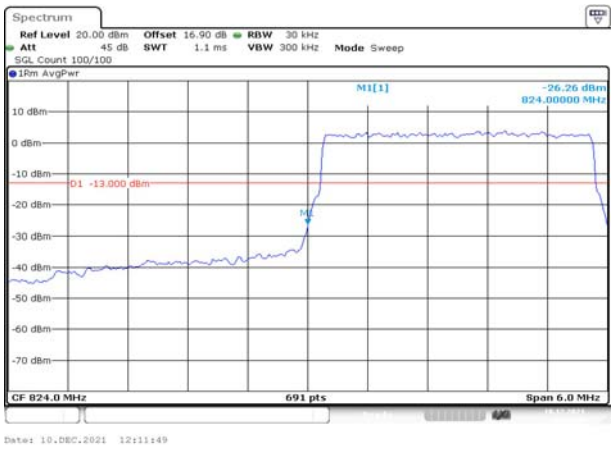

Fig.6

Fig.7

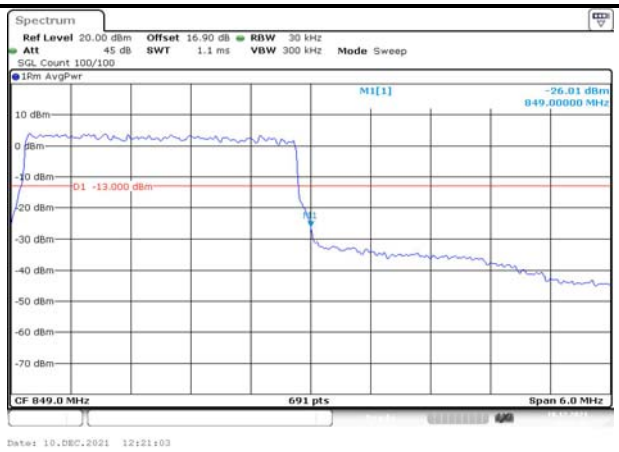

Fig.8

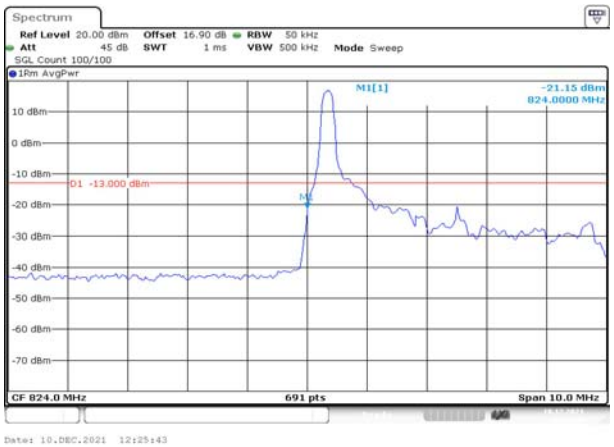

Fig.9

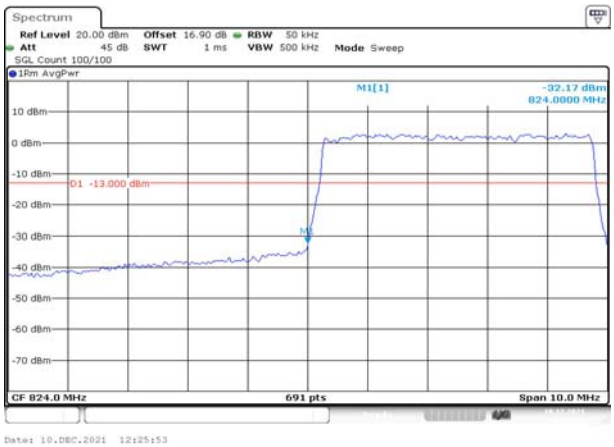

Fig.10

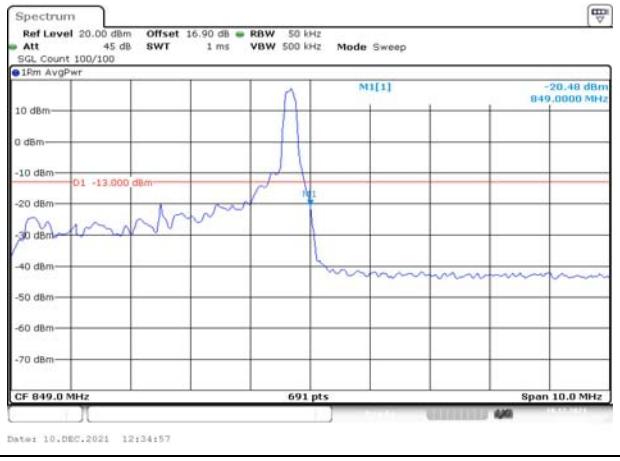

Fig.11

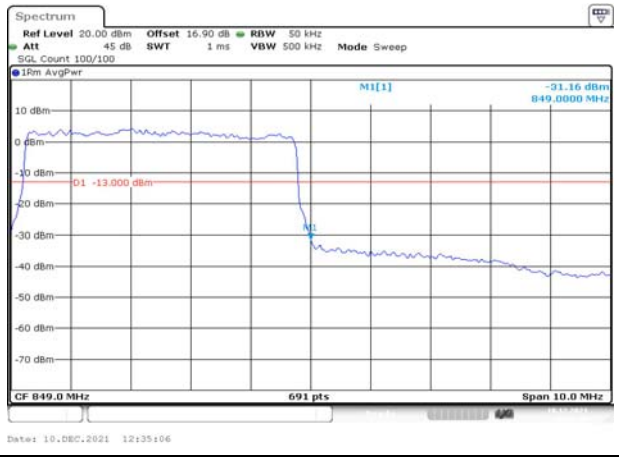

Fig.12

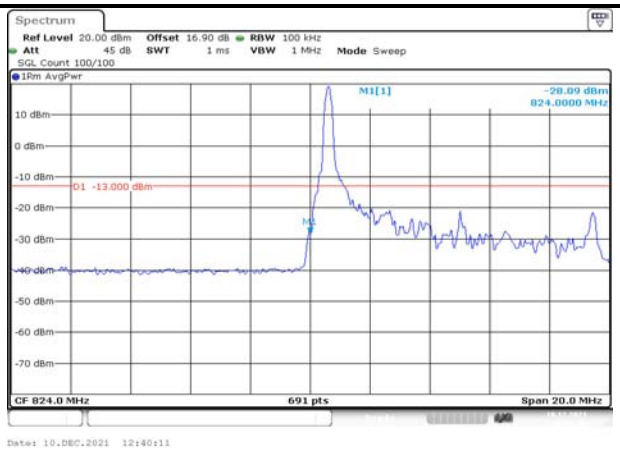

Fig.13

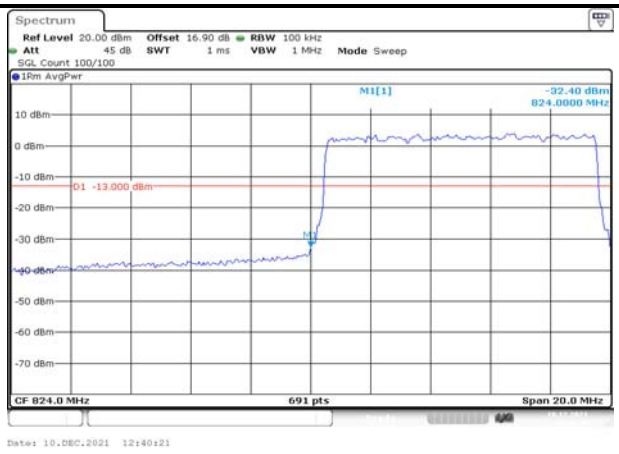

Fig.14

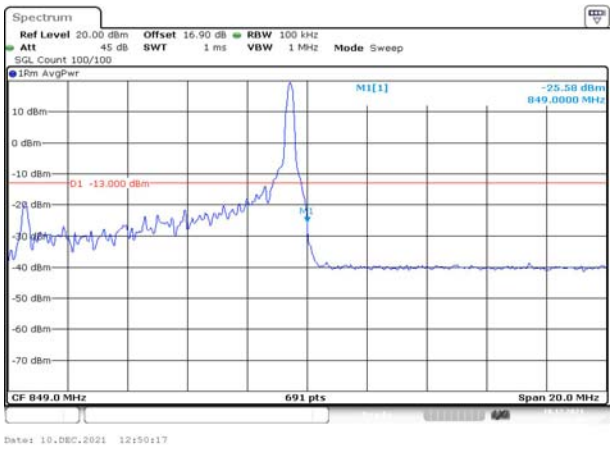

Fig.15

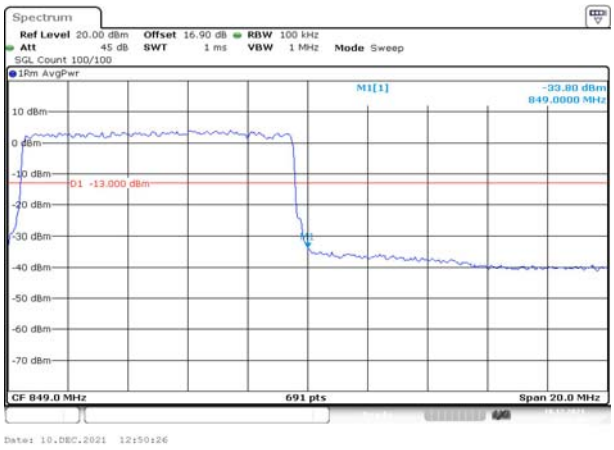

Fig.16

7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 5 Low Channel QPSK			
		1.4M	3M	5M	10M
-30	NV	0.005	0.007	0.003	-0.023
-20	NV	-0.005	-0.036	0.005	-0.019
-10	NV	-0.016	0.005	-0.009	0.006
0	NV	0.010	0.009	0.018	-0.012
+10	NV	-0.021	-0.011	0.021	-0.022
+30	NV	0.002	0.014	0.015	-0.027
+40	NV	0.016	-0.006	-0.017	-0.041
+50	NV	-0.011	-0.020	0.013	-0.017
+20	LV	0.022	-0.001	0.020	0.000
+20	HV	-0.003	0.001	0.016	-0.031

Temperature(°C)	Voltage	Test Result (ppm) Band 5 High Channel QPSK			
		1.4M	3M	5M	10M
-30	NV	-0.005	0.025	-0.021	-0.027
-20	NV	0.013	-0.010	0.002	0.002
-10	NV	0.000	-0.002	0.006	-0.022
0	NV	-0.002	0.011	0.017	0.005
+10	NV	-0.002	-0.002	-0.017	0.001
+30	NV	0.008	-0.002	0.032	0.004
+40	NV	0.000	0.012	0.022	-0.017
+50	NV	-0.028	0.012	0.002	-0.016
+20	LV	0.009	0.021	0.001	-0.021
+20	HV	-0.004	-0.005	0.012	-0.042

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	824.7	20407	1.4	1	0	21.90	18.89	0.077
16QAM	824.7	20407	1.4	1	3	21.81	18.80	0.076
16QAM	824.7	20407	1.4	1	5	21.92	18.91	0.078
16QAM	824.7	20407	1.4	3	0	21.54	18.53	0.071
16QAM	824.7	20407	1.4	3	1	21.61	18.60	0.072
16QAM	824.7	20407	1.4	3	3	21.56	18.55	0.072
16QAM	824.7	20407	1.4	6	0	20.78	17.77	0.060
16QAM	836.5	20525	1.4	1	0	21.48	18.47	0.070
16QAM	836.5	20525	1.4	1	3	21.83	18.82	0.076
16QAM	836.5	20525	1.4	1	5	21.84	18.83	0.076
16QAM	836.5	20525	1.4	3	0	21.27	18.26	0.067
16QAM	836.5	20525	1.4	3	1	21.29	18.28	0.067
16QAM	836.5	20525	1.4	3	3	21.41	18.40	0.069
16QAM	836.5	20525	1.4	6	0	20.67	17.66	0.058
16QAM	848.3	20643	1.4	1	0	21.67	18.66	0.073
16QAM	848.3	20643	1.4	1	3	21.66	18.65	0.073
16QAM	848.3	20643	1.4	1	5	21.40	18.39	0.069
16QAM	848.3	20643	1.4	3	0	21.71	18.70	0.074
16QAM	848.3	20643	1.4	3	1	21.54	18.53	0.071
16QAM	848.3	20643	1.4	3	3	21.58	18.57	0.072
16QAM	848.3	20643	1.4	6	0	20.93	17.92	0.062
64QAM	824.7	20407	1.4	1	0	21.59	18.58	0.072
64QAM	824.7	20407	1.4	1	3	22.04	19.03	0.080
64QAM	824.7	20407	1.4	1	5	21.63	18.62	0.073
64QAM	824.7	20407	1.4	3	0	21.40	18.39	0.069
64QAM	824.7	20407	1.4	3	1	21.47	18.46	0.070
64QAM	824.7	20407	1.4	3	3	21.44	18.43	0.070
64QAM	824.7	20407	1.4	6	0	20.70	17.69	0.059
64QAM	836.5	20525	1.4	1	0	21.04	18.03	0.064
64QAM	836.5	20525	1.4	1	3	21.12	18.11	0.065
64QAM	836.5	20525	1.4	1	5	21.19	18.18	0.066
64QAM	836.5	20525	1.4	3	0	21.35	18.34	0.068
64QAM	836.5	20525	1.4	3	1	21.37	18.36	0.069
64QAM	836.5	20525	1.4	3	3	21.57	18.56	0.072
64QAM	836.5	20525	1.4	6	0	20.63	17.62	0.058
64QAM	848.3	20643	1.4	1	0	21.67	18.66	0.073
64QAM	848.3	20643	1.4	1	3	21.57	18.56	0.072
64QAM	848.3	20643	1.4	1	5	21.65	18.64	0.073
64QAM	848.3	20643	1.4	3	0	21.61	18.60	0.072
64QAM	848.3	20643	1.4	3	1	21.21	18.20	0.066
64QAM	848.3	20643	1.4	3	3	21.42	18.41	0.069

64QAM	848.3	20643	1.4	6	0	20.72	17.71	0.059

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	824.7	20407	1.4	1	0	22.63	19.62	0.092
QPSK	824.7	20407	1.4	1	3	22.31	19.30	0.085
QPSK	824.7	20407	1.4	1	5	22.76	19.75	0.094
QPSK	824.7	20407	1.4	3	0	22.23	19.22	0.084
QPSK	824.7	20407	1.4	3	1	22.62	19.61	0.091
QPSK	824.7	20407	1.4	3	3	22.26	19.25	0.084
QPSK	824.7	20407	1.4	6	0	22.36	19.35	0.086
QPSK	836.5	20525	1.4	1	0	22.13	19.12	0.082
QPSK	836.5	20525	1.4	1	3	21.88	18.87	0.077
QPSK	836.5	20525	1.4	1	5	22.02	19.01	0.080
QPSK	836.5	20525	1.4	3	0	22.02	19.01	0.080
QPSK	836.5	20525	1.4	3	1	21.96	18.95	0.079
QPSK	836.5	20525	1.4	3	3	21.98	18.97	0.079
QPSK	836.5	20525	1.4	6	0	22.04	19.03	0.080
QPSK	848.3	20643	1.4	1	0	22.45	19.44	0.088
QPSK	848.3	20643	1.4	1	3	22.80	19.79	0.095
QPSK	848.3	20643	1.4	1	5	22.36	19.35	0.086
QPSK	848.3	20643	1.4	3	0	22.48	19.47	0.089
QPSK	848.3	20643	1.4	3	1	22.80	19.79	0.095
QPSK	848.3	20643	1.4	3	3	22.65	19.64	0.092
QPSK	848.3	20643	1.4	6	0	22.56	19.55	0.090

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	825.5	20415	3	1	0	22.33	19.32	0.086
16QAM	825.5	20415	3	1	8	22.15	19.14	0.082
16QAM	825.5	20415	3	1	14	21.74	18.73	0.075
16QAM	825.5	20415	3	8	0	20.73	17.72	0.059
16QAM	825.5	20415	3	8	4	20.68	17.67	0.058
16QAM	825.5	20415	3	8	7	20.68	17.67	0.058
16QAM	825.5	20415	3	15	0	20.66	17.65	0.058
16QAM	836.5	20525	3	1	0	21.85	18.84	0.077
16QAM	836.5	20525	3	1	8	22.09	19.08	0.081
16QAM	836.5	20525	3	1	14	21.94	18.93	0.078
16QAM	836.5	20525	3	8	0	20.17	17.16	0.052
16QAM	836.5	20525	3	8	4	20.64	17.63	0.058
16QAM	836.5	20525	3	8	7	20.75	17.74	0.059
16QAM	836.5	20525	3	15	0	20.75	17.74	0.059
16QAM	847.5	20635	3	1	0	21.67	18.66	0.073
16QAM	847.5	20635	3	1	8	21.55	18.54	0.071
16QAM	847.5	20635	3	1	14	21.50	18.49	0.071
16QAM	847.5	20635	3	8	0	20.88	17.87	0.061
16QAM	847.5	20635	3	8	4	20.93	17.92	0.062
16QAM	847.5	20635	3	8	7	20.88	17.87	0.061
16QAM	847.5	20635	3	15	0	20.86	17.85	0.061
64QAM	825.5	20415	3	1	0	21.46	18.45	0.070
64QAM	825.5	20415	3	1	8	21.49	18.48	0.070
64QAM	825.5	20415	3	1	14	20.87	17.86	0.061
64QAM	825.5	20415	3	8	0	20.71	17.70	0.059
64QAM	825.5	20415	3	8	4	20.69	17.68	0.059
64QAM	825.5	20415	3	8	7	20.69	17.68	0.059
64QAM	825.5	20415	3	15	0	20.38	17.37	0.055
64QAM	836.5	20525	3	1	0	21.47	18.46	0.070
64QAM	836.5	20525	3	1	8	21.67	18.66	0.073
64QAM	836.5	20525	3	1	14	21.85	18.84	0.077
64QAM	836.5	20525	3	8	0	20.40	17.39	0.055
64QAM	836.5	20525	3	8	4	20.83	17.82	0.061
64QAM	836.5	20525	3	8	7	20.82	17.81	0.060
64QAM	836.5	20525	3	15	0	20.68	17.67	0.058
64QAM	847.5	20635	3	1	0	21.03	18.02	0.063
64QAM	847.5	20635	3	1	8	21.09	18.08	0.064
64QAM	847.5	20635	3	1	14	21.09	18.08	0.064
64QAM	847.5	20635	3	8	0	20.93	17.92	0.062
64QAM	847.5	20635	3	8	4	20.92	17.91	0.062
64QAM	847.5	20635	3	8	7	20.93	17.92	0.062

64QAM	847.5	20635	3	15	0	20.59	17.58	0.057

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	825.5	20415	3	1	0	22.65	19.64	0.092
QPSK	825.5	20415	3	1	8	22.63	19.62	0.092
QPSK	825.5	20415	3	1	14	22.42	19.41	0.087
QPSK	825.5	20415	3	8	0	22.52	19.51	0.089
QPSK	825.5	20415	3	8	4	22.54	19.53	0.090
QPSK	825.5	20415	3	8	7	21.88	18.87	0.077
QPSK	825.5	20415	3	15	0	22.51	19.50	0.089
QPSK	836.5	20525	3	1	0	22.27	19.26	0.084
QPSK	836.5	20525	3	1	8	22.34	19.33	0.086
QPSK	836.5	20525	3	1	14	22.09	19.08	0.081
QPSK	836.5	20525	3	8	0	22.15	19.14	0.082
QPSK	836.5	20525	3	8	4	21.86	18.85	0.077
QPSK	836.5	20525	3	8	7	22.09	19.08	0.081
QPSK	836.5	20525	3	15	0	21.96	18.95	0.079
QPSK	847.5	20635	3	1	0	22.40	19.39	0.087
QPSK	847.5	20635	3	1	8	22.49	19.48	0.089
QPSK	847.5	20635	3	1	14	22.51	19.50	0.089
QPSK	847.5	20635	3	8	0	22.17	19.16	0.082
QPSK	847.5	20635	3	8	4	22.42	19.41	0.087
QPSK	847.5	20635	3	8	7	22.44	19.43	0.088
QPSK	847.5	20635	3	15	0	22.58	19.57	0.091

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	826.5	20425	5	1	0	20.98	17.97	0.063
16QAM	826.5	20425	5	1	12	20.38	17.37	0.055
16QAM	826.5	20425	5	1	24	21.06	18.05	0.064
16QAM	826.5	20425	5	12	0	20.47	17.46	0.056
16QAM	826.5	20425	5	12	7	20.58	17.57	0.057
16QAM	826.5	20425	5	12	13	20.36	17.35	0.054
16QAM	826.5	20425	5	25	0	20.56	17.55	0.057
16QAM	836.5	20525	5	1	0	21.63	18.62	0.073
16QAM	836.5	20525	5	1	12	22.12	19.11	0.081
16QAM	836.5	20525	5	1	24	21.69	18.68	0.074
16QAM	836.5	20525	5	12	0	20.23	17.22	0.053
16QAM	836.5	20525	5	12	7	20.70	17.69	0.059
16QAM	836.5	20525	5	12	13	20.69	17.68	0.059
16QAM	836.5	20525	5	25	0	20.61	17.60	0.058
16QAM	846.5	20625	5	1	0	21.06	18.05	0.064
16QAM	846.5	20625	5	1	12	21.15	18.14	0.065
16QAM	846.5	20625	5	1	24	21.07	18.06	0.064
16QAM	846.5	20625	5	12	0	20.42	17.41	0.055
16QAM	846.5	20625	5	12	7	20.69	17.68	0.059
16QAM	846.5	20625	5	12	13	20.69	17.68	0.059
16QAM	846.5	20625	5	25	0	20.79	17.78	0.060
64QAM	826.5	20425	5	1	0	20.64	17.63	0.058
64QAM	826.5	20425	5	1	12	20.32	17.31	0.054
64QAM	826.5	20425	5	1	24	20.63	17.62	0.058
64QAM	826.5	20425	5	12	0	20.47	17.46	0.056
64QAM	826.5	20425	5	12	7	20.55	17.54	0.057
64QAM	826.5	20425	5	12	13	20.55	17.54	0.057
64QAM	826.5	20425	5	25	0	20.49	17.48	0.056
64QAM	836.5	20525	5	1	0	21.21	18.20	0.066
64QAM	836.5	20525	5	1	12	21.54	18.53	0.071
64QAM	836.5	20525	5	1	24	21.03	18.02	0.063
64QAM	836.5	20525	5	12	0	20.02	17.01	0.050
64QAM	836.5	20525	5	12	7	20.57	17.56	0.057
64QAM	836.5	20525	5	12	13	20.63	17.62	0.058
64QAM	836.5	20525	5	25	0	20.86	17.85	0.061
64QAM	846.5	20625	5	1	0	21.08	18.07	0.064
64QAM	846.5	20625	5	1	12	21.18	18.17	0.066
64QAM	846.5	20625	5	1	24	21.22	18.21	0.066
64QAM	846.5	20625	5	12	0	20.42	17.41	0.055
64QAM	846.5	20625	5	12	7	20.77	17.76	0.060
64QAM	846.5	20625	5	12	13	20.69	17.68	0.059

64QAM	846.5	20625	5	25	0	20.85	17.84	0.061

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	826.5	20425	5	1	0	22.58	19.57	0.091
QPSK	826.5	20425	5	1	12	22.15	19.14	0.082
QPSK	826.5	20425	5	1	24	22.63	19.62	0.092
QPSK	826.5	20425	5	12	0	22.48	19.47	0.089
QPSK	826.5	20425	5	12	7	22.02	19.01	0.080
QPSK	826.5	20425	5	12	13	21.77	18.76	0.075
QPSK	826.5	20425	5	25	0	21.97	18.96	0.079
QPSK	836.5	20525	5	1	0	22.16	19.15	0.082
QPSK	836.5	20525	5	1	12	21.87	18.86	0.077
QPSK	836.5	20525	5	1	24	22.06	19.05	0.080
QPSK	836.5	20525	5	12	0	22.15	19.14	0.082
QPSK	836.5	20525	5	12	7	22.05	19.04	0.080
QPSK	836.5	20525	5	12	13	21.89	18.88	0.077
QPSK	836.5	20525	5	25	0	21.94	18.93	0.078
QPSK	846.5	20625	5	1	0	22.54	19.53	0.090
QPSK	846.5	20625	5	1	12	22.42	19.41	0.087
QPSK	846.5	20625	5	1	24	22.44	19.43	0.088
QPSK	846.5	20625	5	12	0	22.54	19.53	0.090
QPSK	846.5	20625	5	12	7	22.67	19.66	0.092
QPSK	846.5	20625	5	12	13	22.42	19.41	0.087
QPSK	846.5	20625	5	25	0	22.58	19.57	0.091

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	829	20450	10	1	0	21.44	18.43	0.070
16QAM	829	20450	10	1	25	21.51	18.50	0.071
16QAM	829	20450	10	1	49	21.04	18.03	0.064
16QAM	829	20450	10	25	0	20.49	17.48	0.056
16QAM	829	20450	10	25	12	20.56	17.55	0.057
16QAM	829	20450	10	25	25	20.79	17.78	0.060
16QAM	829	20450	10	50	0	20.31	17.30	0.054
16QAM	836.5	20525	10	1	0	21.91	18.90	0.078
16QAM	836.5	20525	10	1	25	22.01	19.00	0.079
16QAM	836.5	20525	10	1	49	22.08	19.07	0.081
16QAM	836.5	20525	10	25	0	20.51	17.50	0.056
16QAM	836.5	20525	10	25	12	20.73	17.72	0.059
16QAM	836.5	20525	10	25	25	20.68	17.67	0.058
16QAM	836.5	20525	10	50	0	20.48	17.47	0.056
16QAM	844	20600	10	1	0	20.87	17.86	0.061
16QAM	844	20600	10	1	25	21.52	18.51	0.071
16QAM	844	20600	10	1	49	20.95	17.94	0.062
16QAM	844	20600	10	25	0	20.87	17.86	0.061
16QAM	844	20600	10	25	12	20.92	17.91	0.062
16QAM	844	20600	10	25	25	20.96	17.95	0.062
16QAM	844	20600	10	50	0	20.81	17.80	0.060
64QAM	829	20450	10	1	0	21.60	18.59	0.072
64QAM	829	20450	10	1	25	21.73	18.72	0.074
64QAM	829	20450	10	1	49	21.48	18.47	0.070
64QAM	829	20450	10	25	0	20.61	17.60	0.058
64QAM	829	20450	10	25	12	20.72	17.71	0.059
64QAM	829	20450	10	25	25	20.29	17.28	0.053
64QAM	829	20450	10	50	0	20.59	17.58	0.057
64QAM	836.5	20525	10	1	0	22.07	19.06	0.081
64QAM	836.5	20525	10	1	25	22.38	19.37	0.086
64QAM	836.5	20525	10	1	49	22.39	19.38	0.087
64QAM	836.5	20525	10	25	0	20.45	17.44	0.055
64QAM	836.5	20525	10	25	12	20.89	17.88	0.061
64QAM	836.5	20525	10	25	25	20.69	17.68	0.059
64QAM	836.5	20525	10	50	0	20.78	17.77	0.060
64QAM	844	20600	10	1	0	20.95	17.94	0.062
64QAM	844	20600	10	1	25	21.46	18.45	0.070
64QAM	844	20600	10	1	49	21.16	18.15	0.065
64QAM	844	20600	10	25	0	20.98	17.97	0.063
64QAM	844	20600	10	25	12	20.95	17.94	0.062
64QAM	844	20600	10	25	25	20.95	17.94	0.062

64QAM	844	20600	10	50	0	20.72	17.71	0.059

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	829	20450	10	1	0	22.57	19.56	0.090
QPSK	829	20450	10	1	25	22.64	19.63	0.092
QPSK	829	20450	10	1	49	22.24	19.23	0.084
QPSK	829	20450	10	25	0	21.81	18.80	0.076
QPSK	829	20450	10	25	12	22.52	19.51	0.089
QPSK	829	20450	10	25	25	22.61	19.60	0.091
QPSK	829	20450	10	50	0	22.54	19.53	0.090
QPSK	836.5	20525	10	1	0	22.51	19.50	0.089
QPSK	836.5	20525	10	1	25	22.09	19.08	0.081
QPSK	836.5	20525	10	1	49	22.43	19.42	0.087
QPSK	836.5	20525	10	25	0	22.35	19.34	0.086
QPSK	836.5	20525	10	25	12	22.12	19.11	0.081
QPSK	836.5	20525	10	25	25	22.02	19.01	0.080
QPSK	836.5	20525	10	50	0	22.07	19.06	0.081
QPSK	844	20600	10	1	0	22.28	19.27	0.085
QPSK	844	20600	10	1	25	22.76	19.75	0.094
QPSK	844	20600	10	1	49	22.53	19.52	0.090
QPSK	844	20600	10	25	0	22.45	19.44	0.088
QPSK	844	20600	10	25	12	22.52	19.51	0.089
QPSK	844	20600	10	25	25	22.35	19.34	0.086
QPSK	844	20600	10	50	0	22.71	19.70	0.093