APPENDIX A – TEST DATA OF CONDUCTED EMISSION

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	22.86
16QAM	824.7	20407	1.4	1	3	22.91
16QAM	824.7	20407	1.4	1	5	22.86
16QAM	824.7	20407	1.4	3	0	22.98
16QAM	824.7	20407	1.4	3	1	23.04
16QAM	824.7	20407	1.4	3	3	23.16
16QAM	824.7	20407	1.4	6	0	21.94
16QAM	836.5	20525	1.4	1	0	22.87
16QAM	836.5	20525	1.4	1	3	23.12
16QAM	836.5	20525	1.4	1	5	22.88
16QAM	836.5	20525	1.4	3	0	22.88
16QAM	836.5	20525	1.4	3	1	22.86
16QAM	836.5	20525	1.4	3	3	22.76
16QAM	836.5	20525	1.4	6	0	21.86
16QAM	848.3	20643	1.4	1	0	22.95
16QAM	848.3	20643	1.4	1	3	22.88
16QAM	848.3	20643	1.4	1	5	23.03
16QAM	848.3	20643	1.4	3	0	22.59
16QAM	848.3	20643	1.4	3	1	22.50
16QAM	848.3	20643	1.4	3	3	22.52
16QAM	848.3	20643	1.4	6	0	21.76
64QAM	824.7	20407	1.4	1	0	22.21
64QAM	824.7	20407	1.4	1	3	22.49
64QAM	824.7	20407	1.4	1	5	22.23
64QAM	824.7	20407	1.4	3	0	22.22
64QAM	824.7	20407	1.4	3	1	22.07
64QAM	824.7	20407	1.4	3	3	22.18
64QAM	824.7	20407	1.4	6	0	20.88
64QAM	836.5	20525	1.4	1	0	21.77
64QAM	836.5	20525	1.4	1	3	22.00
64QAM	836.5	20525	1.4	1	5	21.88
64QAM	836.5	20525	1.4	3	0	21.77
64QAM	836.5	20525	1.4	3	1	22.03
64QAM	836.5	20525	1.4	3	3	21.87
64QAM	836.5	20525	1.4	6	0	21.04
64QAM	848.3	20643	1.4	1	0	21.89
64QAM	848.3	20643	1.4	1	3	21.99
64QAM	848.3	20643	1.4	1	5	21.78
64QAM	848.3	20643	1.4	3	0	21.65
64QAM	848.3	20643	1.4	3	1	21.84
64QAM	848.3	20643	1.4	3	3	21.77
64QAM	848.3	20643	1.4	6	0	20.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	23.47
QPSK	824.7	20407	1.4	1	3	23.61
QPSK	824.7	20407	1.4	1	5	23.50
QPSK	824.7	20407	1.4	3	0	23.56
QPSK	824.7	20407	1.4	3	1	23.58
QPSK	824.7	20407	1.4	3	3	23.52
QPSK	824.7	20407	1.4	6	0	22.88
QPSK	836.5	20525	1.4	1	0	23.51
QPSK	836.5	20525	1.4	1	3	23.58
QPSK	836.5	20525	1.4	1	5	23.53
QPSK	836.5	20525	1.4	3	0	23.49
QPSK	836.5	20525	1.4	3	1	23.64
QPSK	836.5	20525	1.4	3	3	23.53
QPSK	836.5	20525	1.4	6	0	22.67
QPSK	848.3	20643	1.4	1	0	23.48
QPSK	848.3	20643	1.4	1	3	23.45
QPSK	848.3	20643	1.4	1	5	23.42
QPSK	848.3	20643	1.4	3	0	23.40
QPSK	848.3	20643	1.4	3	1	23.51
QPSK	848.3	20643	1.4	3	3	23.32
QPSK	848.3	20643	1.4	6	0	22.73

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	23.36
16QAM	825.5	20415	3	1	8	23.48
16QAM	825.5	20415	3	1	14	23.34
16QAM	825.5	20415	3	8	0	21.99
16QAM	825.5	20415	3	8	4	21.94
16QAM	825.5	20415	3	8	7	22.00
16QAM	825.5	20415	3	15	0	21.94
16QAM	836.5	20525	3	1	0	22.98
16QAM	836.5	20525	3	1	8	23.00
16QAM	836.5	20525	3	1	14	23.16
16QAM	836.5	20525	3	8	0	21.84
16QAM	836.5	20525	3	8	4	21.90
16QAM	836.5	20525	3	8	7	21.88
16QAM	836.5	20525	3	15	0	21.82
16QAM	847.5	20635	3	1	0	23.12
16QAM	847.5	20635	3	1	8	23.10
16QAM	847.5	20635	3	1	14	22.97
16QAM	847.5	20635	3	8	0	21.87
16QAM	847.5	20635	3	8	4	21.86
16QAM	847.5	20635	3	8	7	21.91
16QAM	847.5	20635	3	15	0	21.81
64QAM	825.5	20415	3	1	0	22.39
64QAM	825.5	20415	3	1	8	22.26
64QAM	825.5	20415	3	1	14	22.37
64QAM	825.5	20415	3	8	0	20.86
64QAM	825.5	20415	3	8	4	20.93
64QAM	825.5	20415	3	8	7	20.94
64QAM	825.5	20415	3	15	0	20.86
64QAM	836.5	20525	3	1	0	21.94
64QAM	836.5	20525	3	1	8	22.05
64QAM	836.5	20525	3	1	14	22.04
64QAM	836.5	20525	3	8	0	20.78
64QAM	836.5	20525	3	8	4	20.77
64QAM	836.5	20525	3	8	7	20.92
64QAM	836.5	20525	3	15	0	20.95
64QAM	847.5	20635	3	1	0	22.42
64QAM	847.5	20635	3	1	8	22.40
64QAM	847.5	20635	3	1	14	22.24
64QAM	847.5	20635	3	8	0	20.91
64QAM	847.5	20635	3	8	4	21.03
64QAM	847.5	20635	3	8	7	20.86
64QAM	847.5	20635	3	15	0	20.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.50
QPSK	825.5	20415	3	1	8	23.59
QPSK	825.5	20415	3	1	14	23.67
QPSK	825.5	20415	3	8	0	22.81
QPSK	825.5	20415	3	8	4	22.82
QPSK	825.5	20415	3	8	7	22.82
QPSK	825.5	20415	3	15	0	22.80
QPSK	836.5	20525	3	1	0	23.65
QPSK	836.5	20525	3	1	8	23.73
QPSK	836.5	20525	3	1	14	23.62
QPSK	836.5	20525	3	8	0	22.79
QPSK	836.5	20525	3	8	4	22.83
QPSK	836.5	20525	3	8	7	22.85
QPSK	836.5	20525	3	15	0	22.87
QPSK	847.5	20635	3	1	0	23.58
QPSK	847.5	20635	3	1	8	23.66
QPSK	847.5	20635	3	1	14	23.60
QPSK	847.5	20635	3	8	0	22.75
QPSK	847.5	20635	3	8	4	22.83
QPSK	847.5	20635	3	8	7	22.78
QPSK	847.5	20635	3	15	0	22.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	23.04
16QAM	826.5	20425	5	1	12	22.91
16QAM	826.5	20425	5	1	24	22.98
16QAM	826.5	20425	5	12	0	21.94
16QAM	826.5	20425	5	12	7	21.73
16QAM	826.5	20425	5	12	13	21.90
16QAM	826.5	20425	5	25	0	21.85
16QAM	836.5	20525	5	1	0	23.39
16QAM	836.5	20525	5	1	12	23.23
16QAM	836.5	20525	5	1	24	23.38
16QAM	836.5	20525	5	12	0	21.74
16QAM	836.5	20525	5	12	7	21.84
16QAM	836.5	20525	5	12	13	21.92
16QAM	836.5	20525	5	25	0	21.62
16QAM	846.5	20625	5	1	0	23.10
16QAM	846.5	20625	5	1	12	23.19
16QAM	846.5	20625	5	1	24	23.04
16QAM	846.5	20625	5	12	0	21.73
16QAM	846.5	20625	5	12	7	21.87
16QAM	846.5	20625	5	12	13	21.70
16QAM	846.5	20625	5	25	0	21.79
64QAM	826.5	20425	5	1	0	22.00
64QAM	826.5	20425	5	1	12	21.87
64QAM	826.5	20425	5	1	24	21.91
64QAM	826.5	20425	5	12	0	20.96
64QAM	826.5	20425	5	12	7	21.02
64QAM	826.5	20425	5	12	13	20.95
64QAM	826.5	20425	5	25	0	20.85
64QAM	836.5	20525	5	1	0	22.25
64QAM	836.5	20525	5	1	12	22.16
64QAM	836.5	20525	5	1	24	22.14
64QAM	836.5	20525	5	12	0	20.84
64QAM	836.5	20525	5	12	7	20.86
64QAM	836.5	20525	5	12	13	20.89
64QAM	836.5	20525	5	25	0	20.76
64QAM	846.5	20625	5	1	0	21.93
64QAM	846.5	20625	5	1	12	21.93
64QAM	846.5	20625	5	1	24	22.01
64QAM	846.5	20625	5	12	0	20.83
64QAM	846.5	20625	5	12	7	20.92
64QAM	846.5	20625	5	12	13	20.77
64QAM	846.5	20625	5	25	0	20.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.46
QPSK	826.5	20425	5	1	12	23.44
QPSK	826.5	20425	5	1	24	23.49
QPSK	826.5	20425	5	12	0	22.81
QPSK	826.5	20425	5	12	7	22.89
QPSK	826.5	20425	5	12	13	22.78
QPSK	826.5	20425	5	25	0	22.84
QPSK	836.5	20525	5	1	0	23.57
QPSK	836.5	20525	5	1	12	23.59
QPSK	836.5	20525	5	1	24	23.50
QPSK	836.5	20525	5	12	0	22.81
QPSK	836.5	20525	5	12	7	22.94
QPSK	836.5	20525	5	12	13	22.93
QPSK	836.5	20525	5	25	0	22.83
QPSK	846.5	20625	5	1	0	23.57
QPSK	846.5	20625	5	1	12	23.44
QPSK	846.5	20625	5	1	24	23.53
QPSK	846.5	20625	5	12	0	22.80
QPSK	846.5	20625	5	12	7	22.83
QPSK	846.5	20625	5	12	13	22.84
QPSK	846.5	20625	5	25	0	22.74

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	23.77
16QAM	829	20450	10	1	25	23.51
16QAM	829	20450	10	1	49	23.64
16QAM	829	20450	10	25	0	21.87
16QAM	829	20450	10	25	12	21.97
16QAM	829	20450	10	25	25	21.90
16QAM	829	20450	10	50	0	21.94
16QAM	836.5	20525	10	1	0	22.93
16QAM	836.5	20525	10	1	25	23.05
16QAM	836.5	20525	10	1	49	23.01
16QAM	836.5	20525	10	25	0	21.93
16QAM	836.5	20525	10	25	12	22.01
16QAM	836.5	20525	10	25	25	22.03
16QAM	836.5	20525	10	50	0	21.95
16QAM	844	20600	10	1	0	23.06
16QAM	844	20600	10	1	25	22.89
16QAM	844	20600	10	1	49	22.85
16QAM	844	20600	10	25	0	21.83
16QAM	844	20600	10	25	12	21.86
16QAM	844	20600	10	25	25	21.83
16QAM	844	20600	10	50	0	21.84
64QAM	829	20450	10	1	0	22.29
64QAM	829	20450	10	1	25	22.19
64QAM	829	20450	10	1	49	22.23
64QAM	829	20450	10	25	0	20.87
64QAM	829	20450	10	25	12	20.97
64QAM	829	20450	10	25	25	20.92
64QAM	829	20450	10	50	0	20.96
64QAM	836.5	20525	10	1	0	22.03
64QAM	836.5	20525	10	1	25	21.80
64QAM	836.5	20525	10	1	49	22.20
64QAM	836.5	20525	10	25	0	20.94
64QAM	836.5	20525	10	25	12	21.00
64QAM	836.5	20525	10	25	25	21.07
64QAM	836.5	20525	10	50	0	20.85
64QAM	844	20600	10	1	0	22.16
64QAM	844	20600	10	1	25	22.10
64QAM	844	20600	10	1	49	22.03
64QAM	844	20600	10	25	0	20.87
64QAM	844	20600	10	25	12	20.92
64QAM	844	20600	10	25	25	20.93
64QAM	844	20600	10	50	0	20.93

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.73
QPSK	829	20450	10	1	25	23.56
QPSK	829	20450	10	1	49	23.57
QPSK	829	20450	10	25	0	22.79
QPSK	829	20450	10	25	12	22.93
QPSK	829	20450	10	25	25	22.84
QPSK	829	20450	10	50	0	22.87
QPSK	836.5	20525	10	1	0	23.82
QPSK	836.5	20525	10	1	25	23.68
QPSK	836.5	20525	10	1	49	23.72
QPSK	836.5	20525	10	25	0	22.89
QPSK	836.5	20525	10	25	12	22.93
QPSK	836.5	20525	10	25	25	23.01
QPSK	836.5	20525	10	50	0	22.92
QPSK	844	20600	10	1	0	23.56
QPSK	844	20600	10	1	25	23.63
QPSK	844	20600	10	1	49	23.66
QPSK	844	20600	10	25	0	22.87
QPSK	844	20600	10	25	12	22.81
QPSK	844	20600	10	25	25	22.79
QPSK	844	20600	10	50	0	22.88

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.082	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.082	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.082	Fig.3
5	QPSK	825.5	20415	3	15	0	2.683	Fig.4
5	QPSK	836.5	20525	3	15	0	2.670	Fig.5
5	QPSK	847.5	20635	3	15	0	2.670	Fig.6
5	QPSK	826.5	20425	5	25	0	4.493	Fig.7
5	QPSK	836.5	20525	5	25	0	4.472	Fig.8
5	QPSK	846.5	20625	5	25	0	4.472	Fig.9
5	QPSK	829	20450	10	50	0	8.944	Fig.10
5	QPSK	836.5	20525	10	50	0	8.900	Fig.11
5	QPSK	844	20600	10	50	0	8.944	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.088	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.082	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.082	Fig.15
5	16QAM	825.5	20415	3	15	0	2.683	Fig.16
5	16QAM	836.5	20525	3	15	0	2.683	Fig.17
5	16QAM	847.5	20635	3	15	0	2.683	Fig.18
5	16QAM	826.5	20425	5	25	0	4.472	Fig.19
5	16QAM	836.5	20525	5	25	0	4.493	Fig.20
5	16QAM	846.5	20625	5	25	0	4.472	Fig.21
5	16QAM	829	20450	10	50	0	8.944	Fig.22
5	16QAM	836.5	20525	10	50	0	8.900	Fig.23
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)	
5	64QAM	824.7	20407	1.4	6	0	1.082	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.088	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.076	Fig.27
5	64QAM	825.5	20415	3	15	0	2.696	Fig.28
5	64QAM	836.5	20525	3	15	0	2.683	Fig.29
5	64QAM	847.5	20635	3	15	0	2.670	Fig.30
5	64QAM	826.5	20425	5	25	0	4.493	Fig.31
5	64QAM	836.5	20525	5	25	0	4.472	Fig.32
5	64QAM	846.5	20625	5	25	0	4.472	Fig.33
5	64QAM	829	20450	10	50	0	8.944	Fig.34
5	64QAM	836.5	20525	10	50	0	8.900	Fig.35
5	64QAM	844	20600	10	50	0	8.944	Fig.36

Test Mode: QPSK

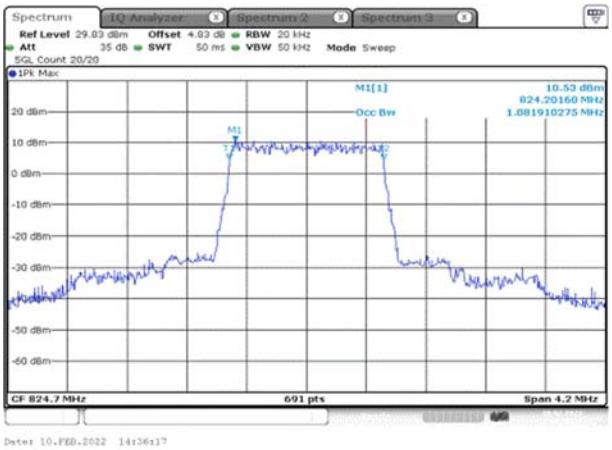


Fig.1

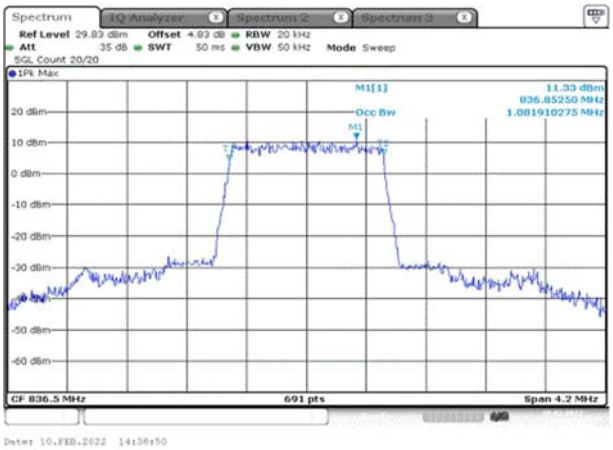


Fig.2

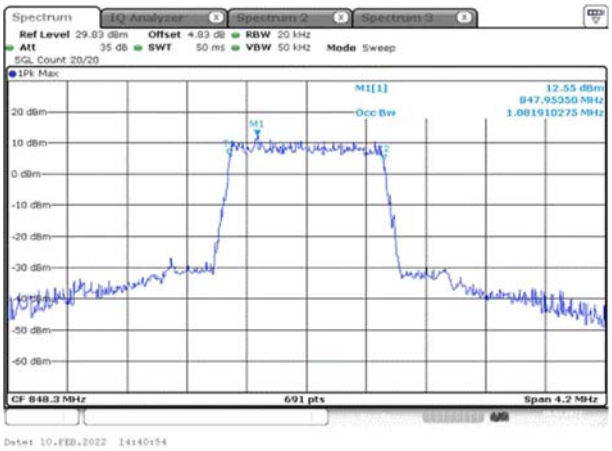


Fig.3

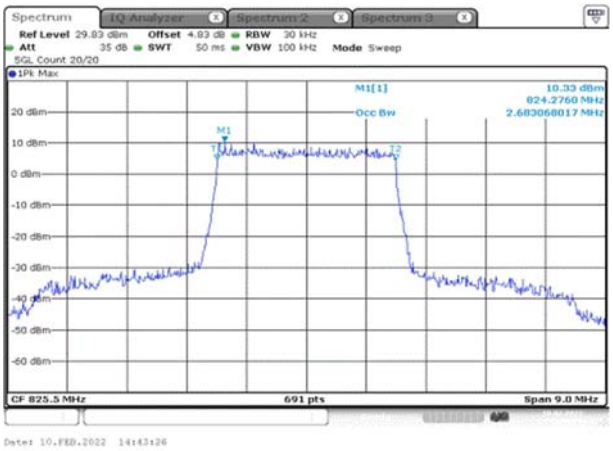


Fig.4

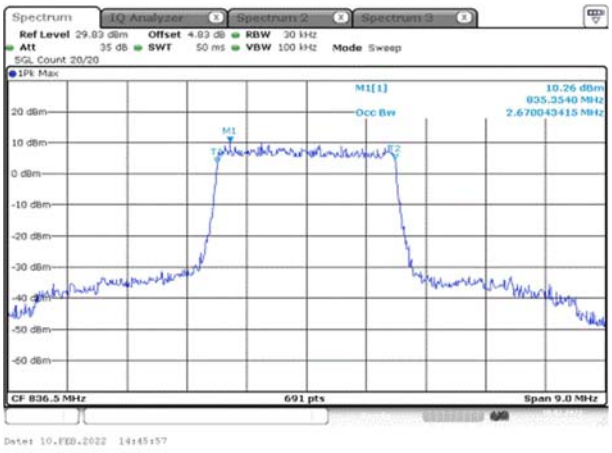


Fig.5

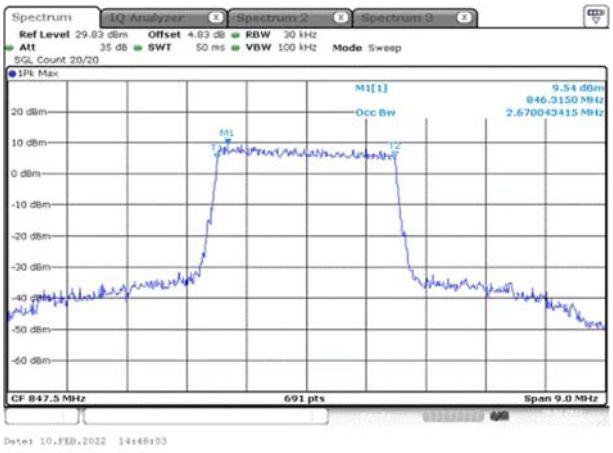


Fig.6

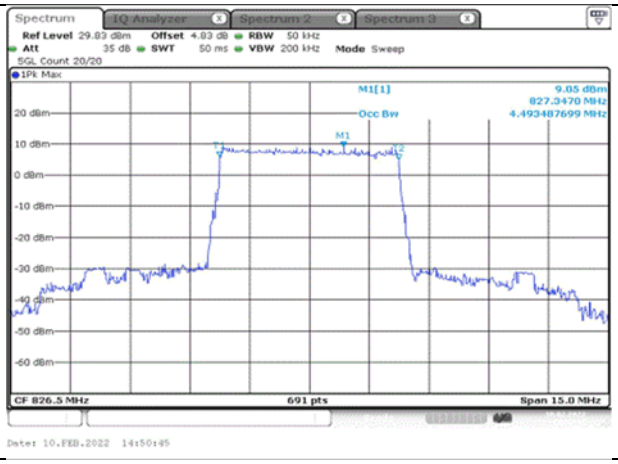
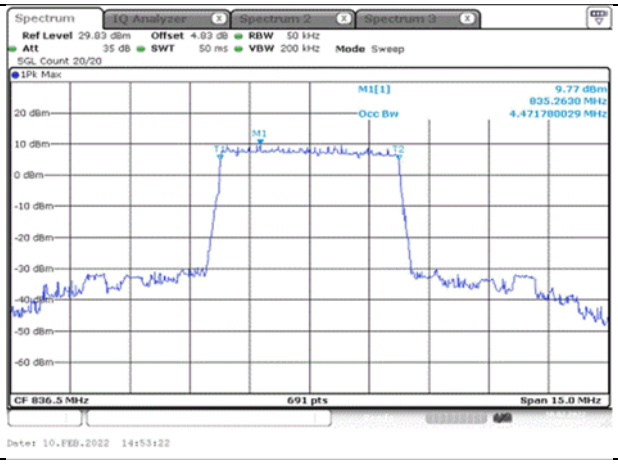


Fig.7



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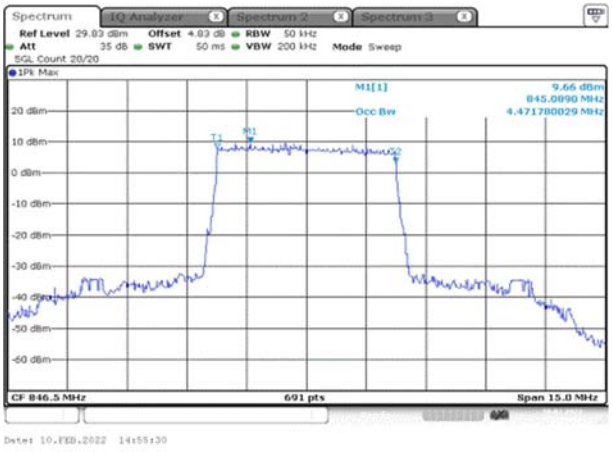


Fig.9

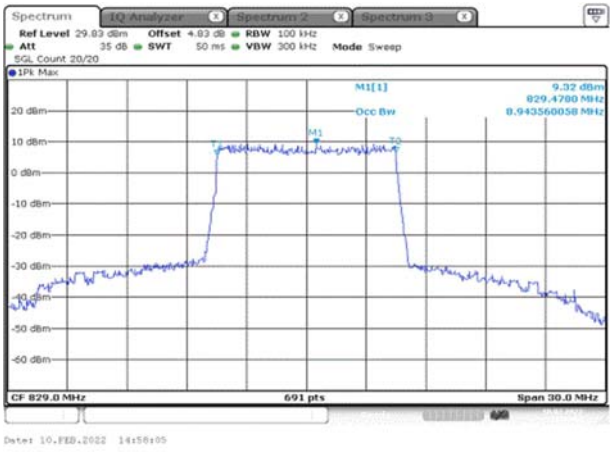


Fig.10

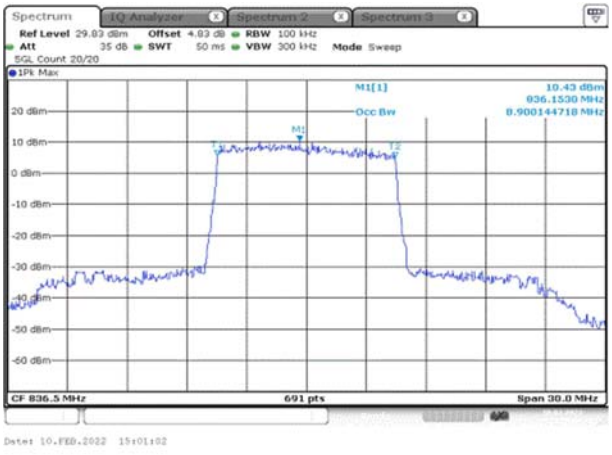


Fig.11

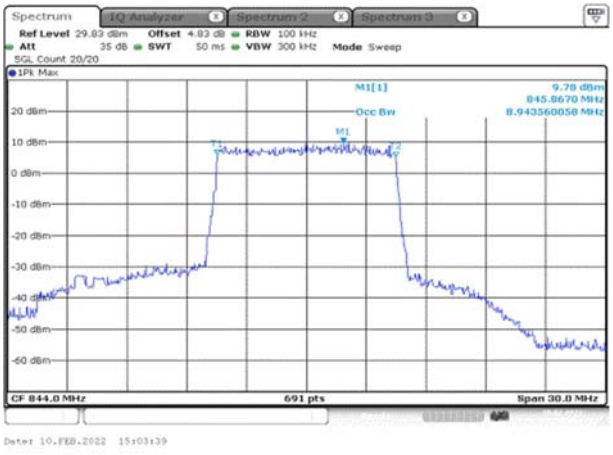


Fig.12

Test Mode: 16QAM

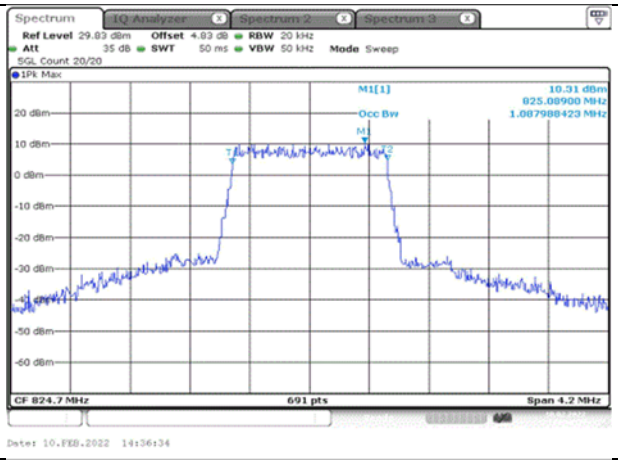


Fig.13

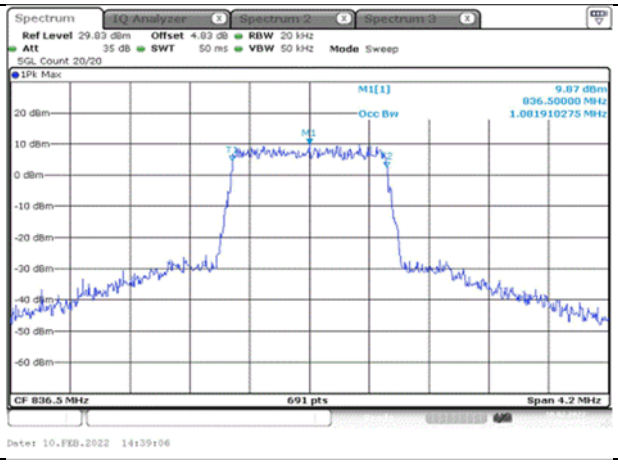
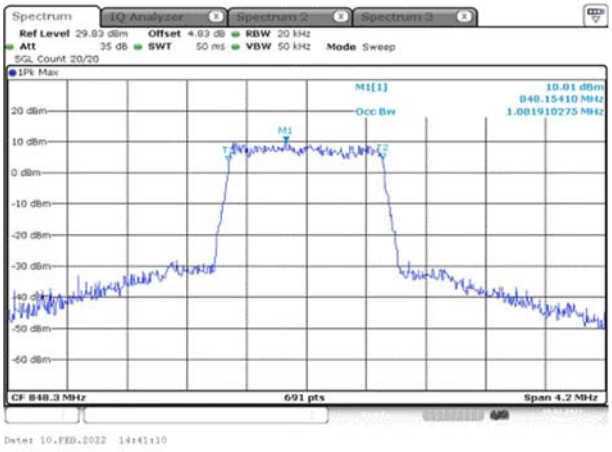


Fig.14



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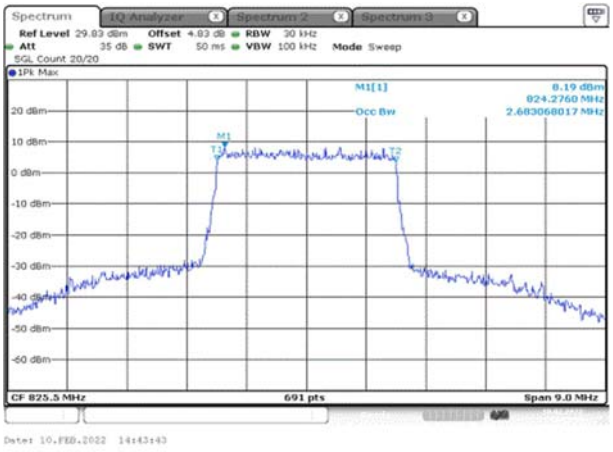


Fig.16

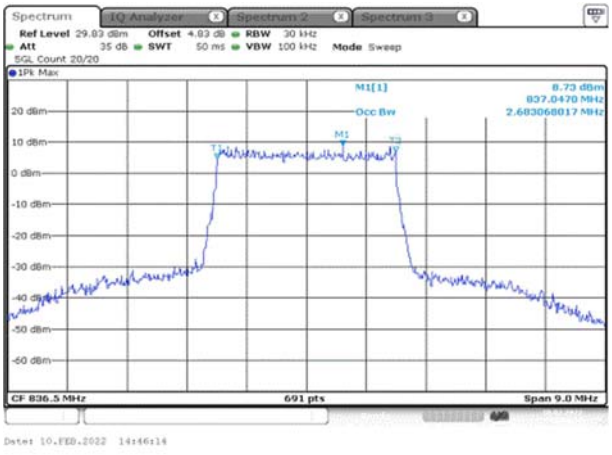
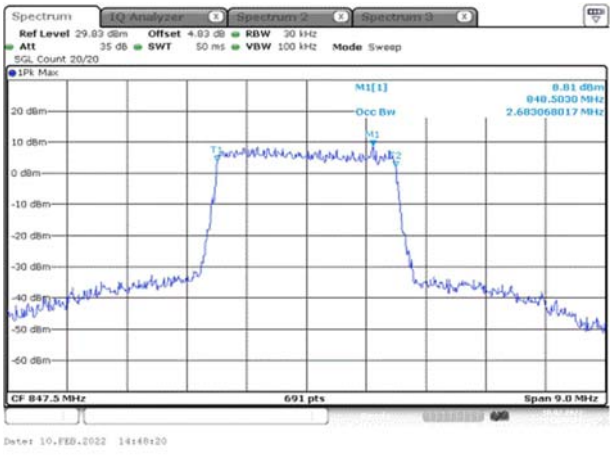


Fig.17



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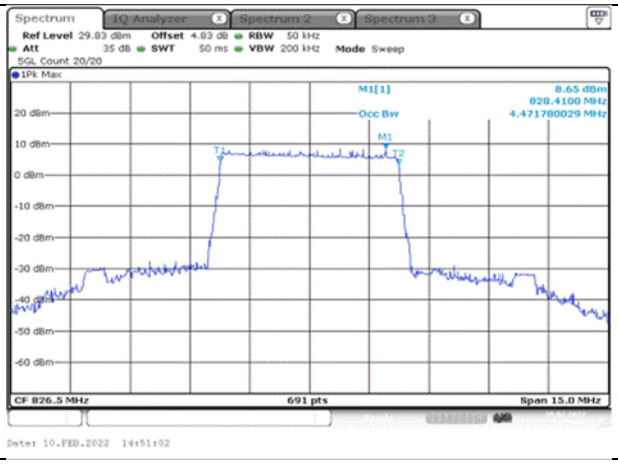


Fig.19

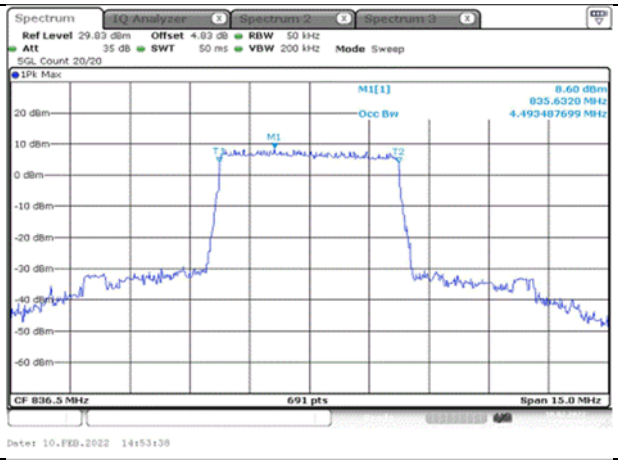


Fig.20

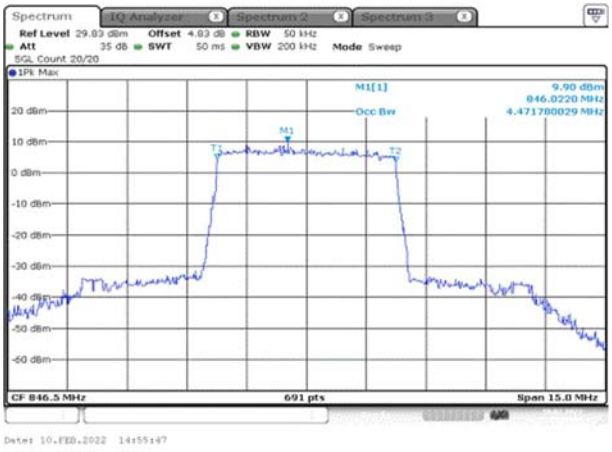


Fig.21

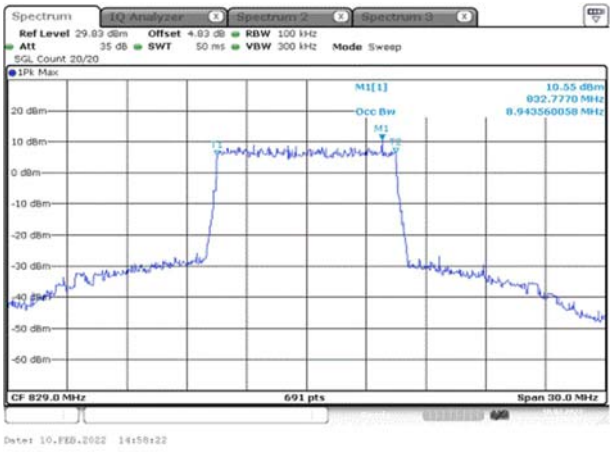


Fig.22

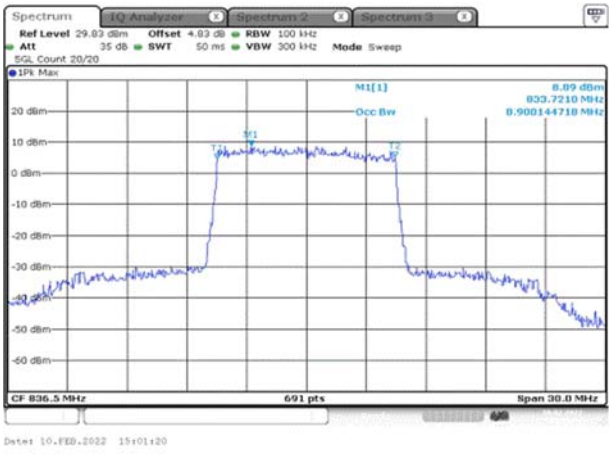


Fig.23

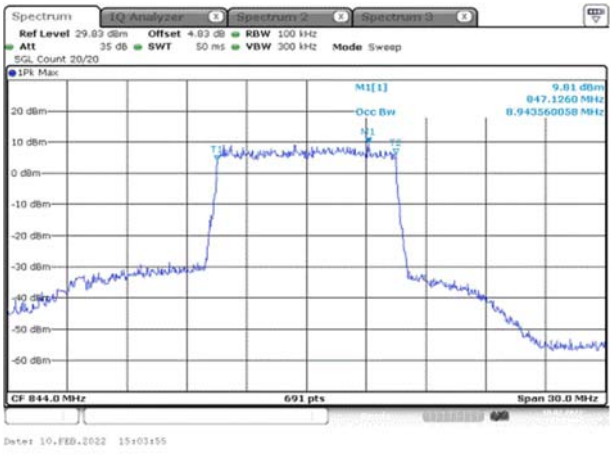


Fig.24

Test Mode: 64QAM

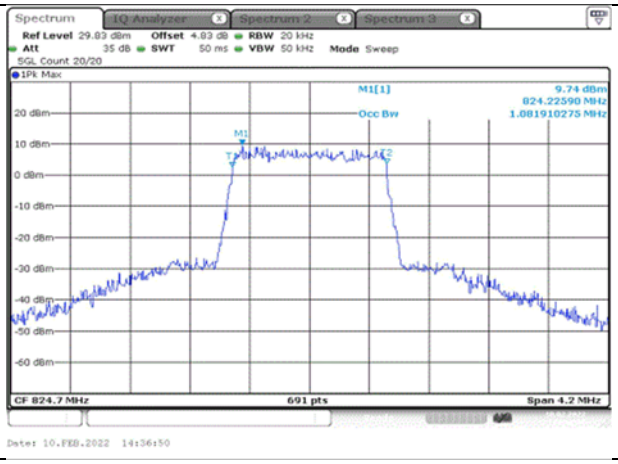


Fig.25

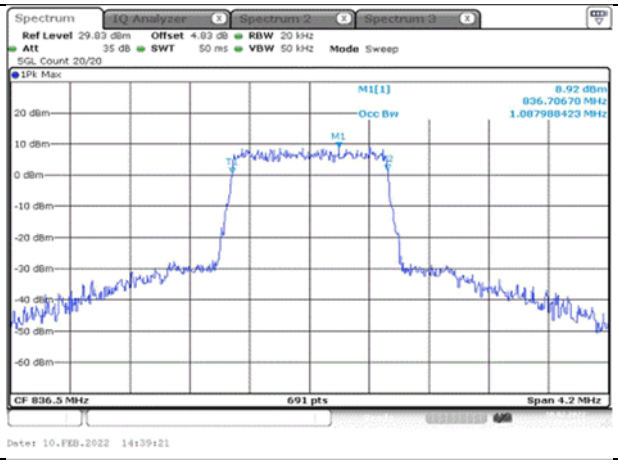


Fig.26

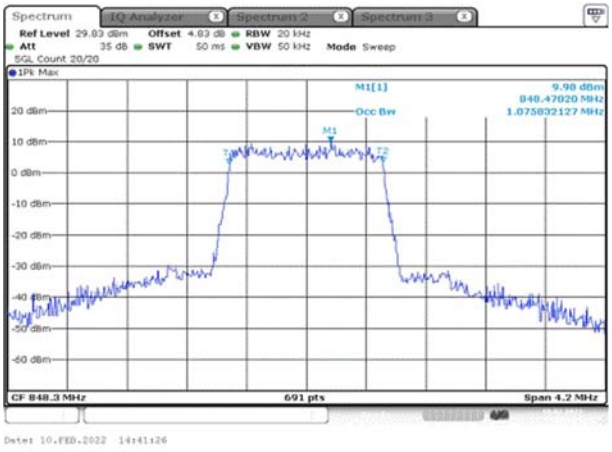


Fig.27

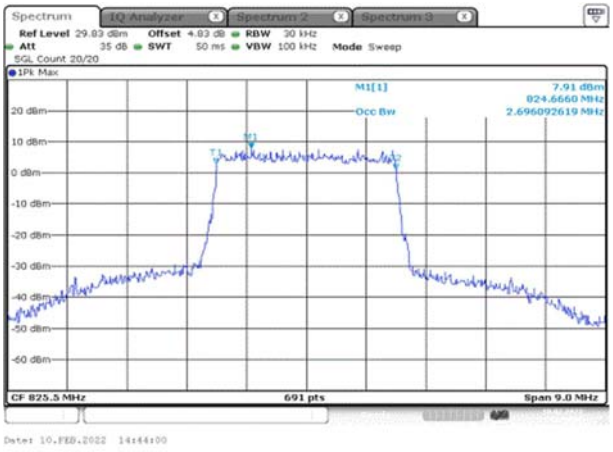


Fig.28

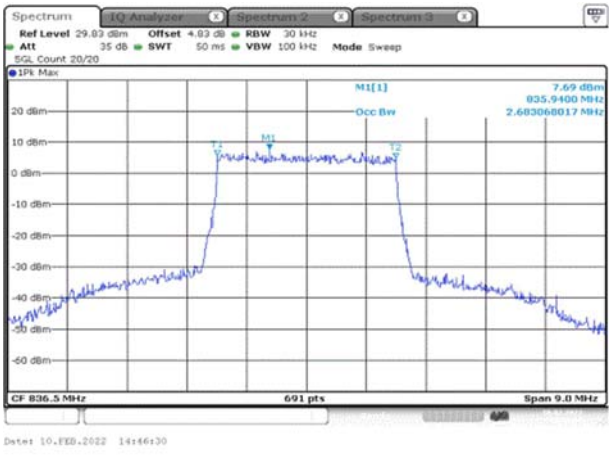


Fig.29

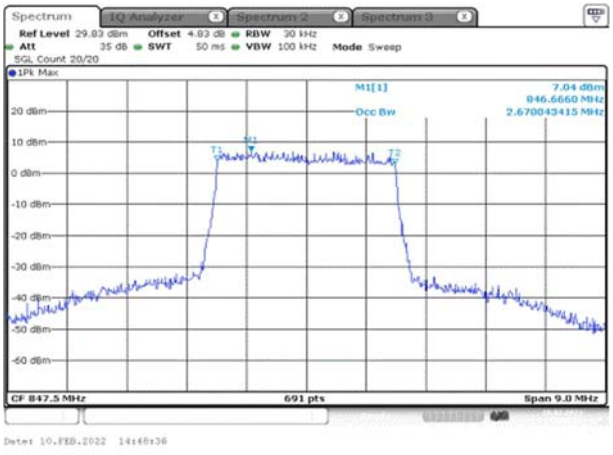


Fig.30

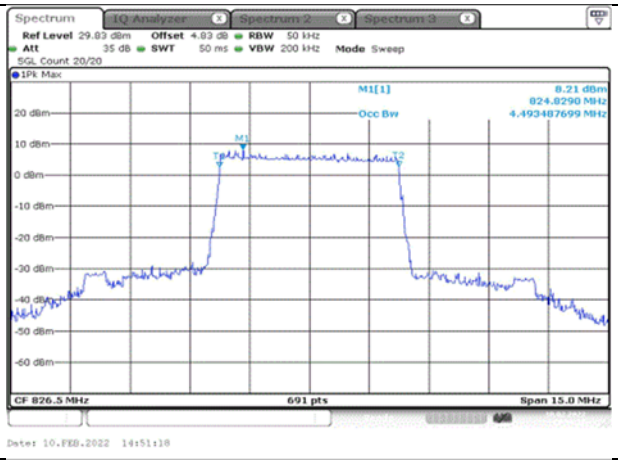


Fig.31

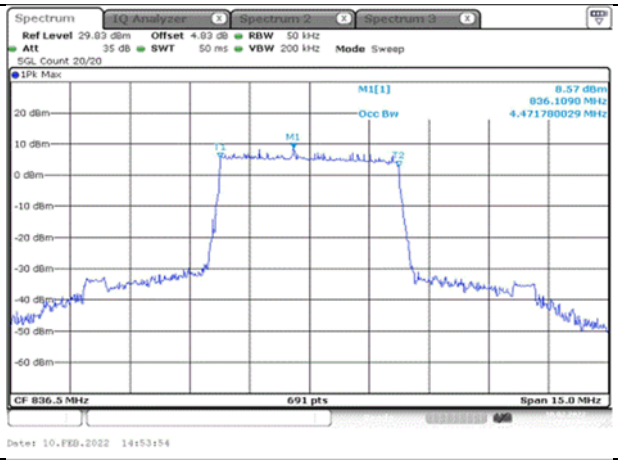


Fig.32

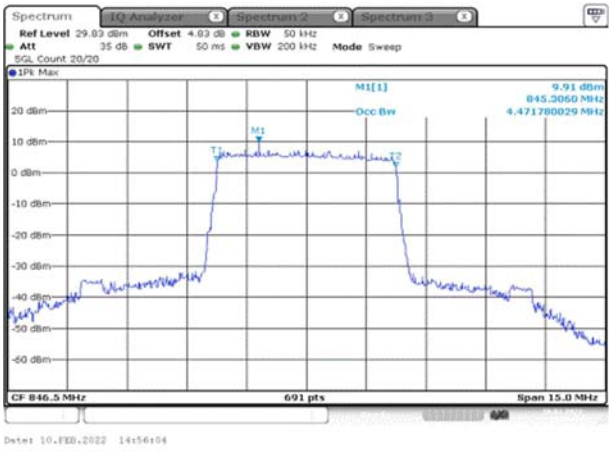


Fig.33

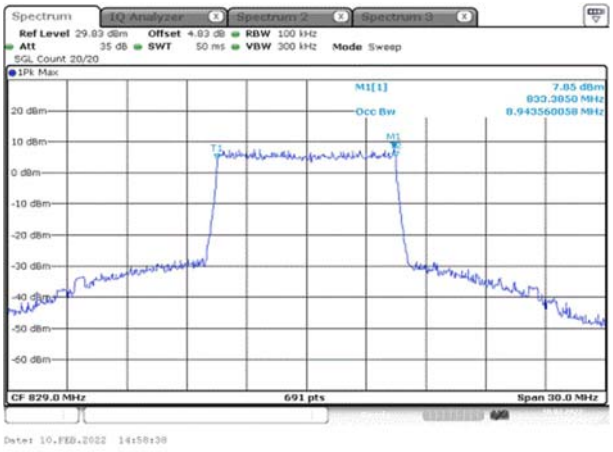


Fig.34

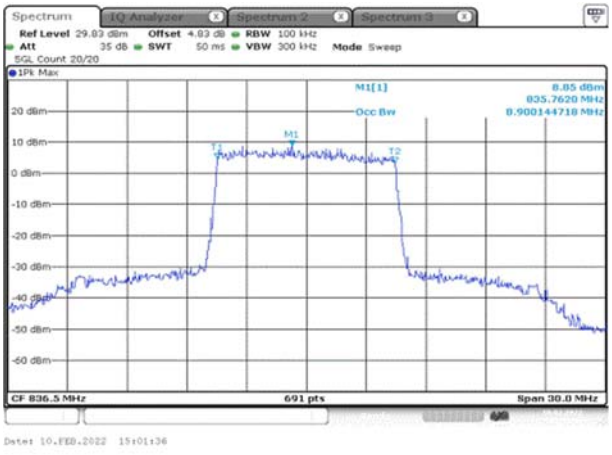


Fig.35

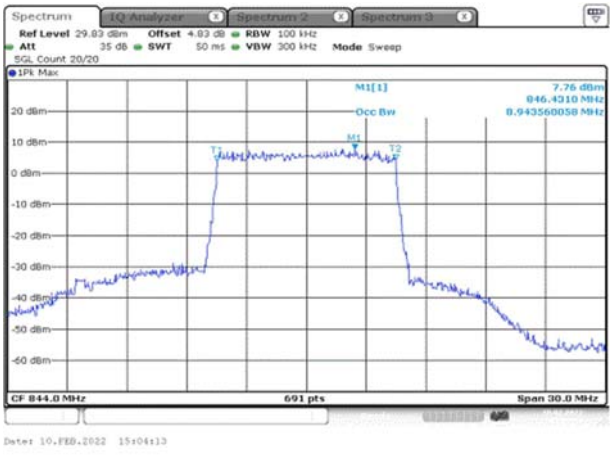


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.204	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.216	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.197	Fig.3
5	QPSK	825.5	20415	3	15	0	2.918	Fig.4
5	QPSK	836.5	20525	3	15	0	2.904	Fig.5
5	QPSK	847.5	20635	3	15	0	2.918	Fig.6
5	QPSK	826.5	20425	5	25	0	4.841	Fig.7
5	QPSK	836.5	20525	5	25	0	4.863	Fig.8
5	QPSK	846.5	20625	5	25	0	4.841	Fig.9
5	QPSK	829	20450	10	50	0	9.638	Fig.10
5	QPSK	836.5	20525	10	50	0	9.595	Fig.11
5	QPSK	844	20600	10	50	0	9.595	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.210	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.216	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.210	Fig.15
5	16QAM	825.5	20415	3	15	0	2.944	Fig.16
5	16QAM	836.5	20525	3	15	0	2.931	Fig.17
5	16QAM	847.5	20635	3	15	0	2.904	Fig.18
5	16QAM	826.5	20425	5	25	0	4.863	Fig.19
5	16QAM	836.5	20525	5	25	0	4.863	Fig.20
5	16QAM	846.5	20625	5	25	0	4.863	Fig.21
5	16QAM	829	20450	10	50	0	9.595	Fig.22
5	16QAM	836.5	20525	10	50	0	9.551	Fig.23
5	16QAM	844	20600	10	50	0	9.508	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.216	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.228	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.204	Fig.27
5	64QAM	825.5	20415	3	15	0	2.957	Fig.28
5	64QAM	836.5	20525	3	15	0	2.918	Fig.29
5	64QAM	847.5	20635	3	15	0	2.931	Fig.30
5	64QAM	826.5	20425	5	25	0	4.863	Fig.31
5	64QAM	836.5	20525	5	25	0	4.863	Fig.32
5	64QAM	846.5	20625	5	25	0	4.863	Fig.33
5	64QAM	829	20450	10	50	0	9.682	Fig.34
5	64QAM	836.5	20525	10	50	0	9.551	Fig.35
5	64QAM	844	20600	10	50	0	9.638	Fig.36

Test Mode: QPSK

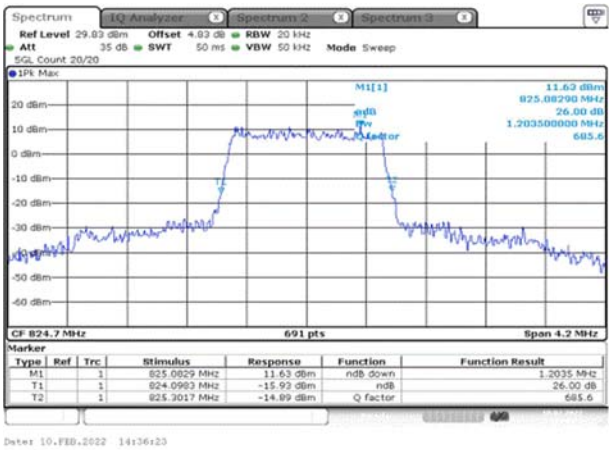


Fig.1

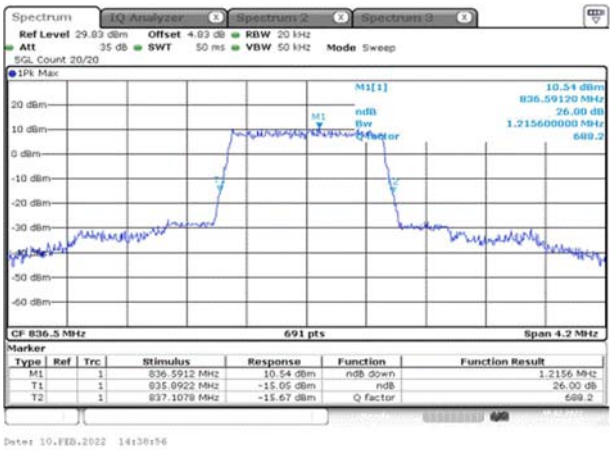


Fig.2

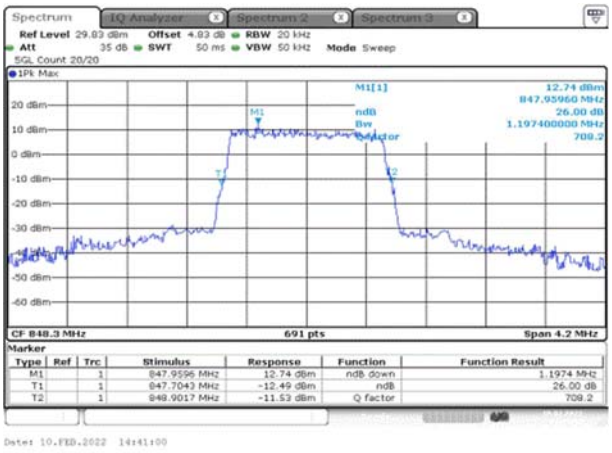


Fig.3

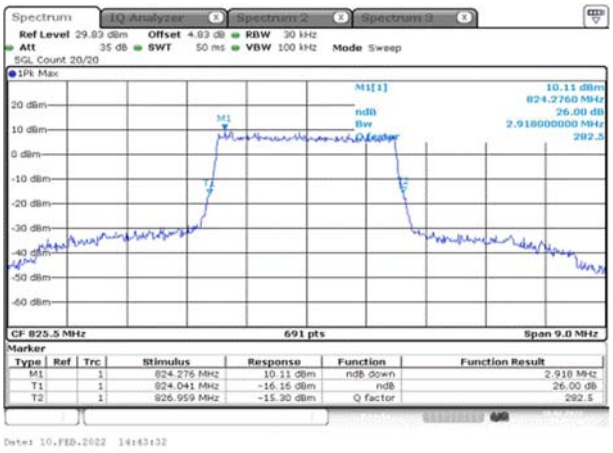


Fig.4

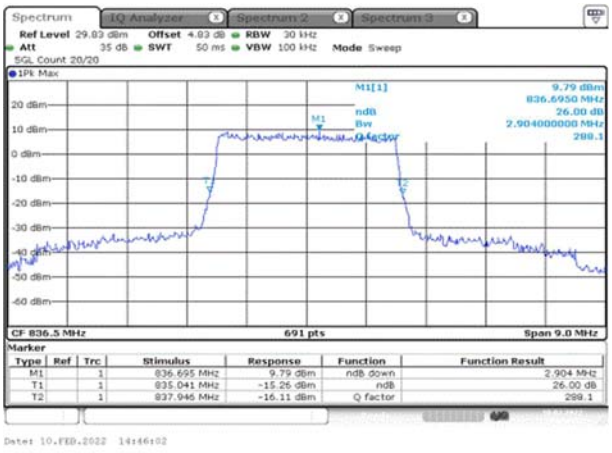


Fig.5

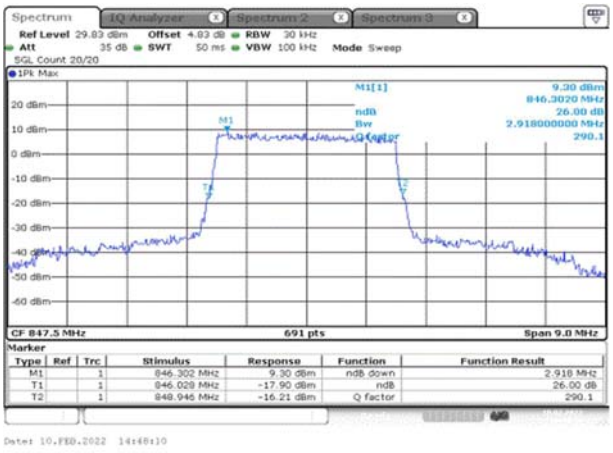


Fig.6

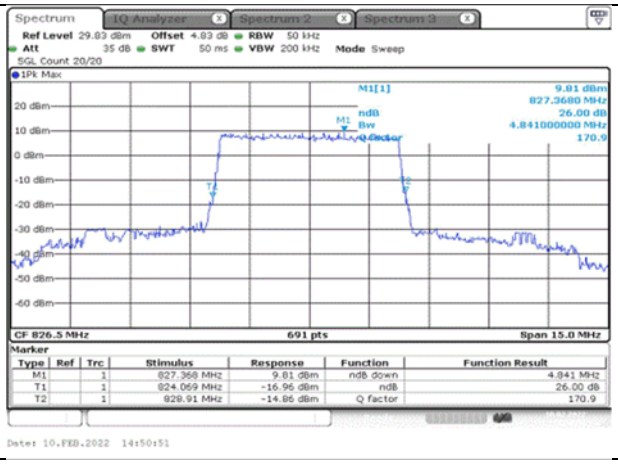


Fig.7

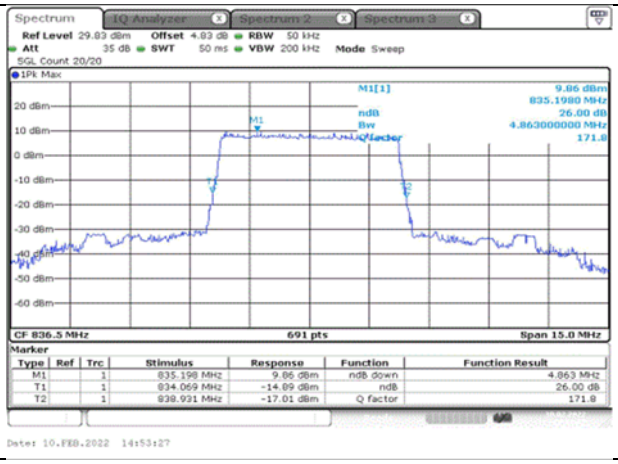


Fig.8

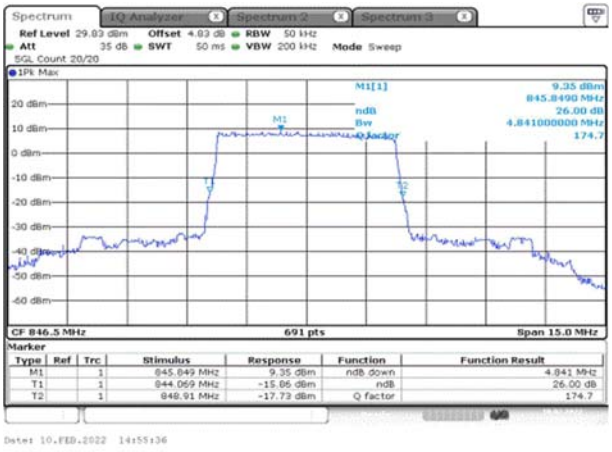


Fig.9

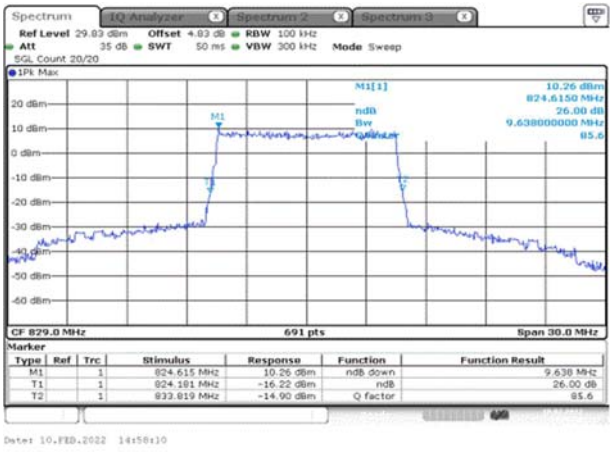


Fig.10

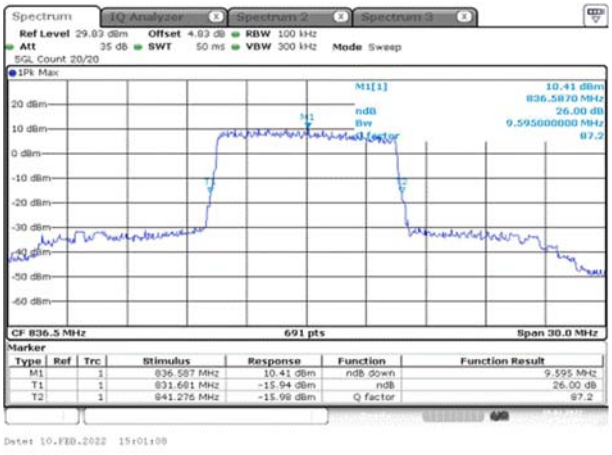


Fig.11

Fig.12

Test Mode: 16QAM

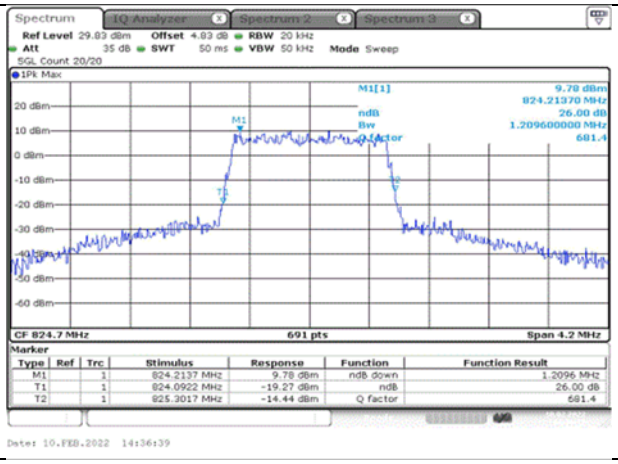


Fig.13

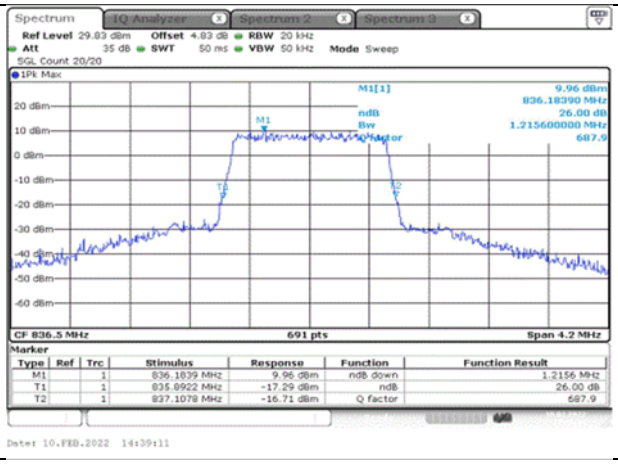


Fig.14

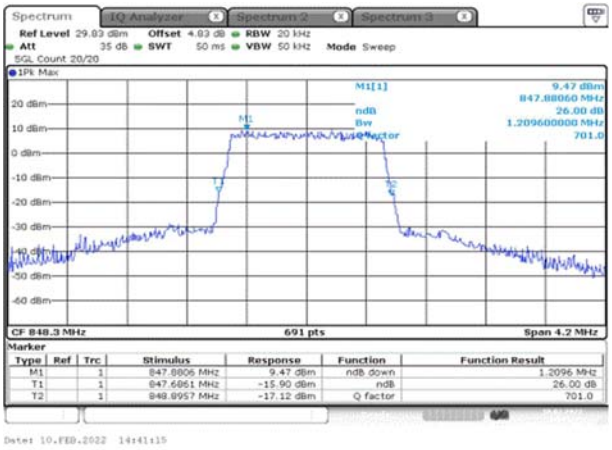


Fig.15

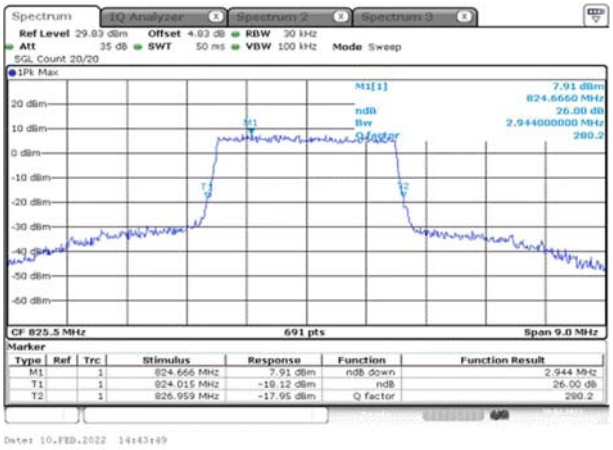


Fig.16

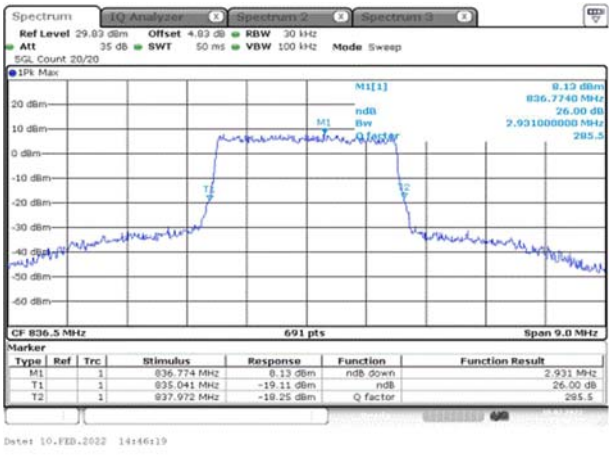


Fig.17

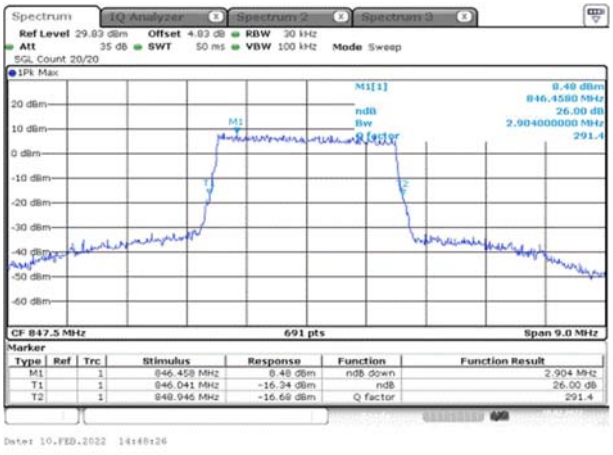


Fig.18

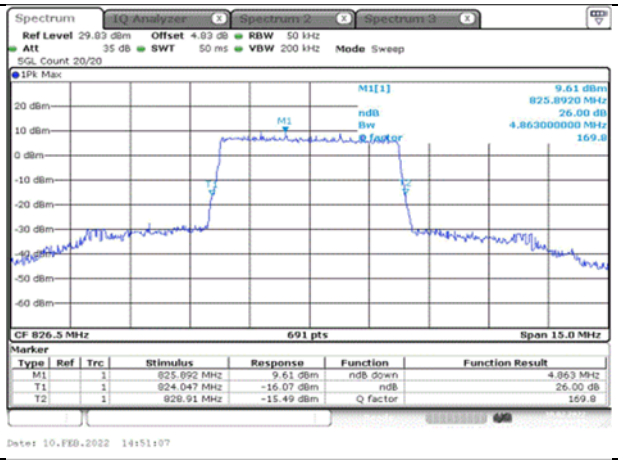


Fig.19

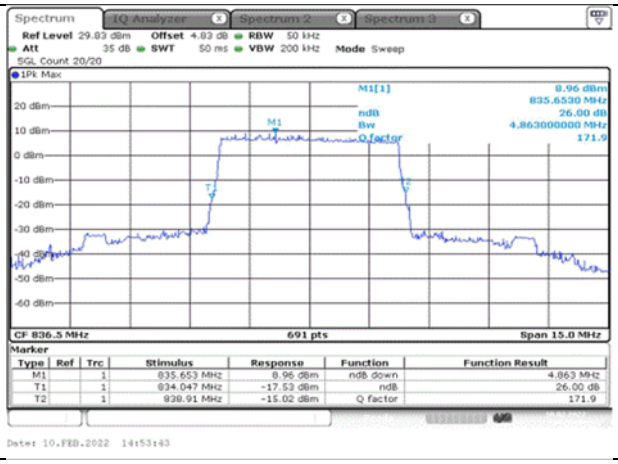


Fig.20

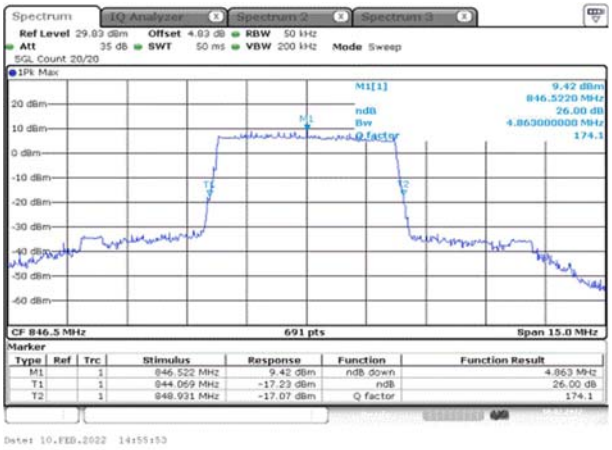
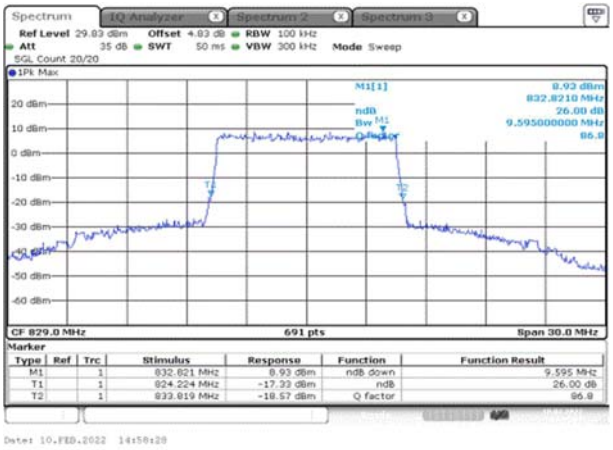


Fig.21



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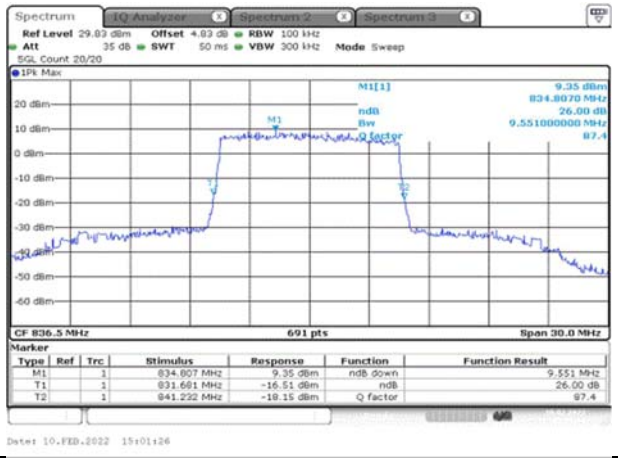


Fig.23

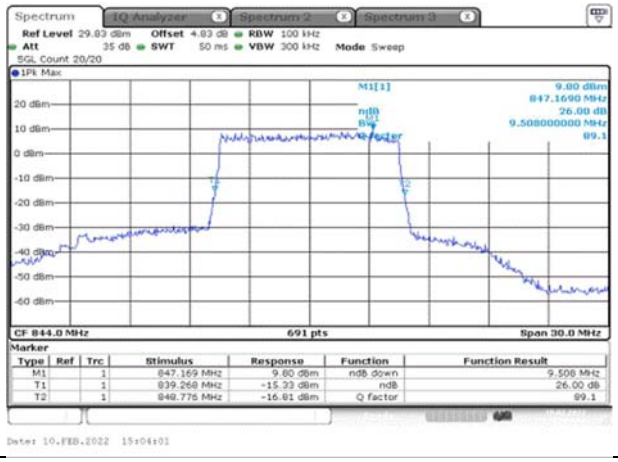


Fig.24

Test Mode: 64QAM

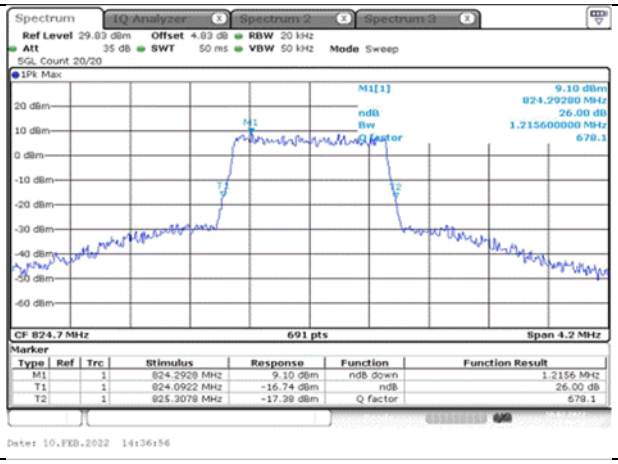


Fig.25

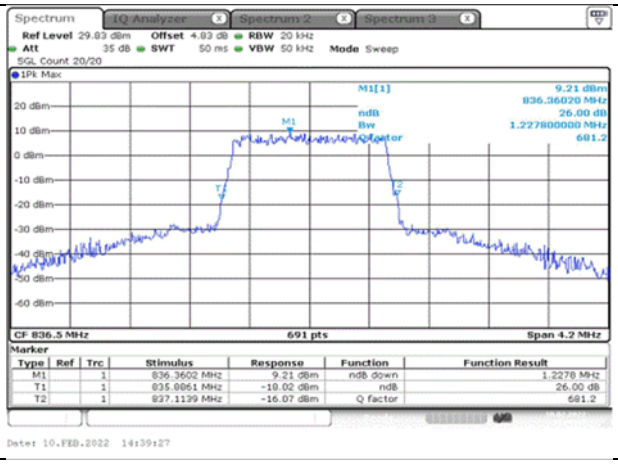


Fig.26

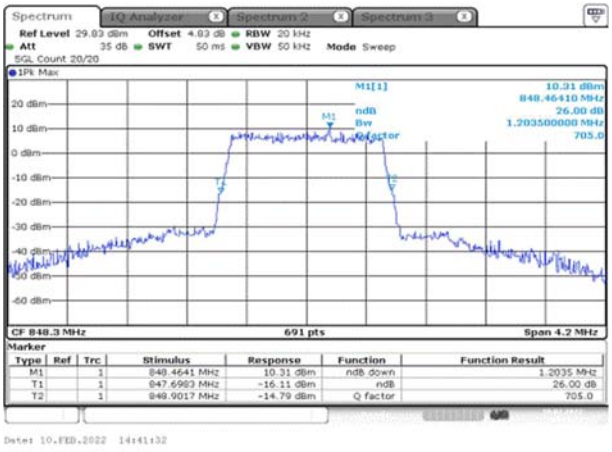


Fig.27

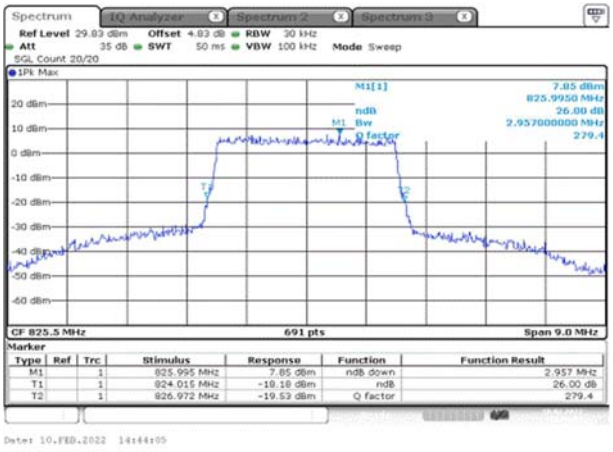
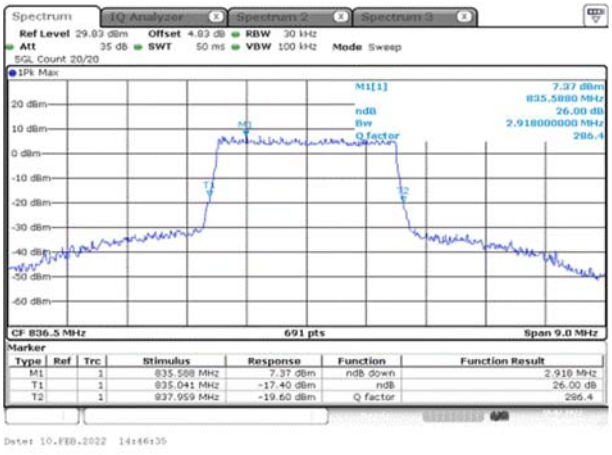


Fig.28



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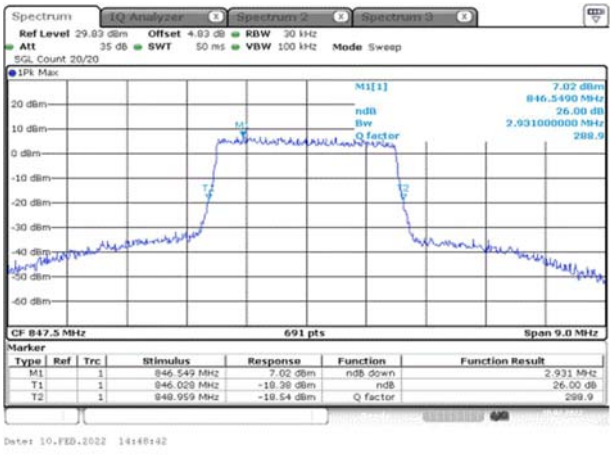

Fig.30

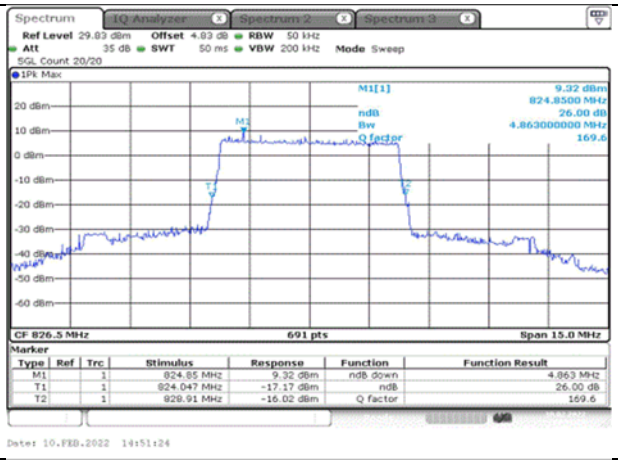

Fig.31

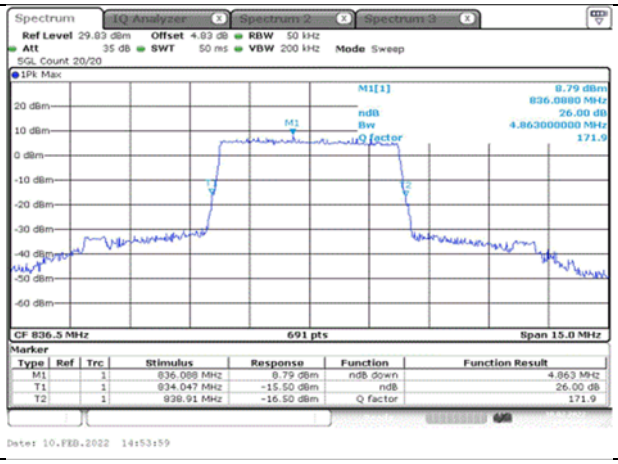

Fig.32

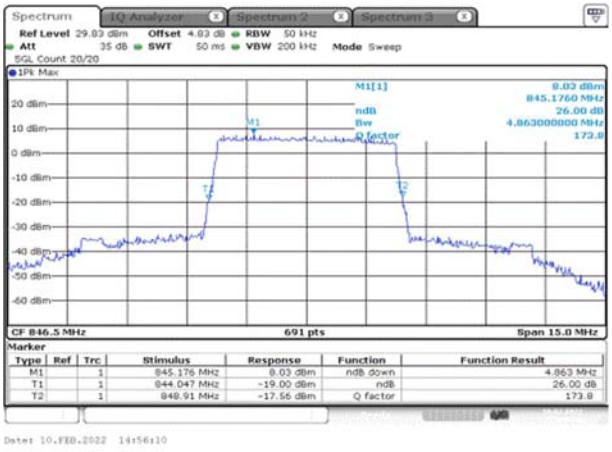

Fig.33

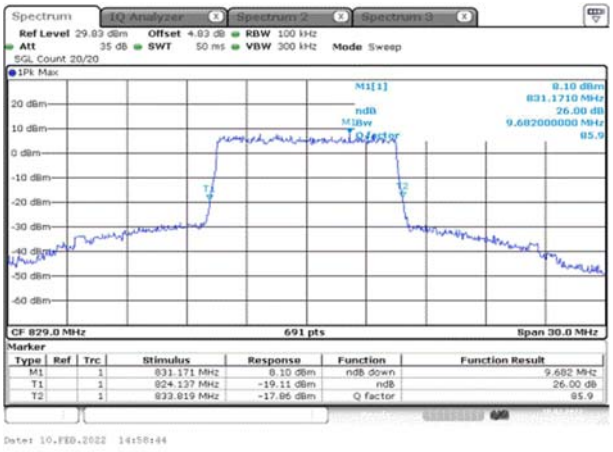

Fig.34

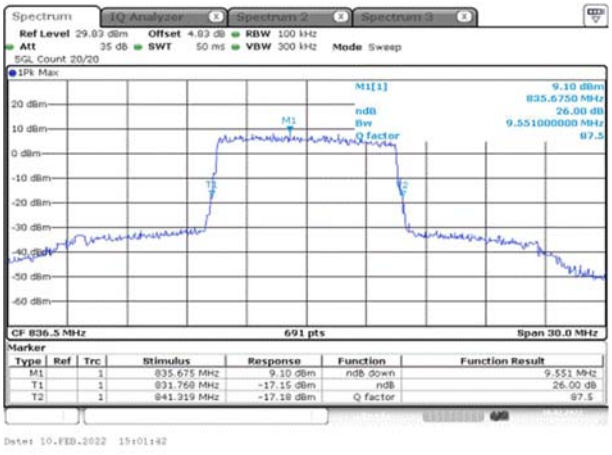

Fig.35

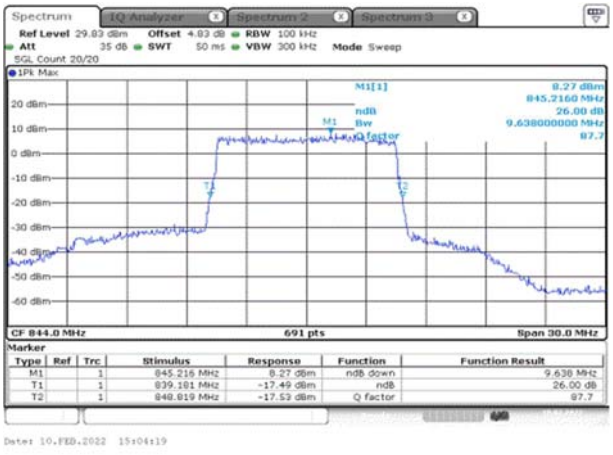

Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
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

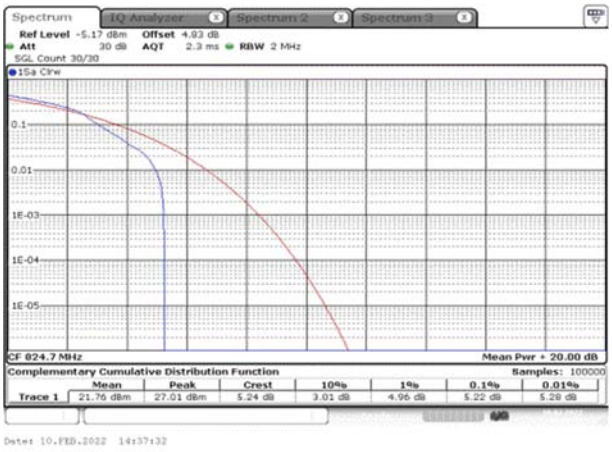

Fig.1

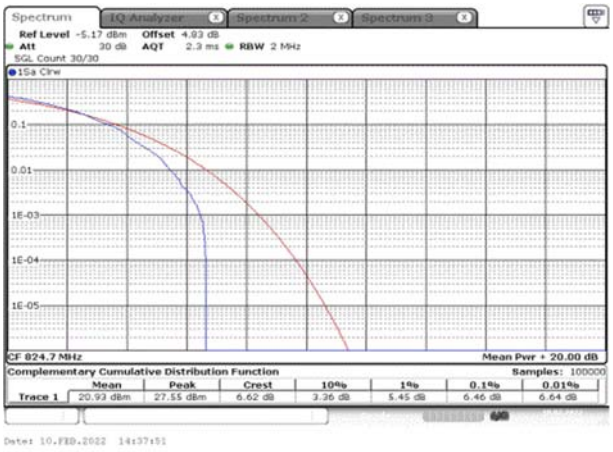

Fig.2

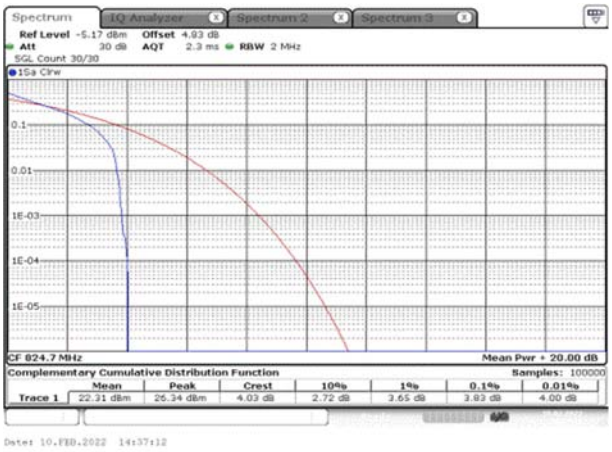

Fig.3

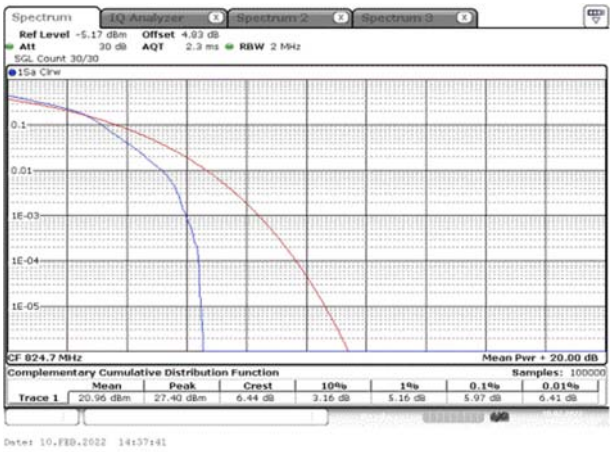

Fig.4

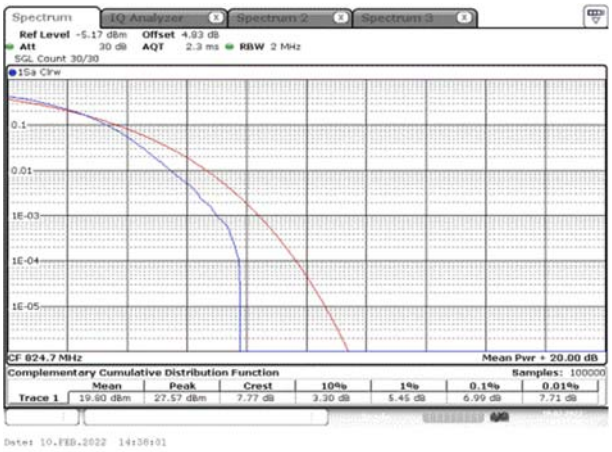

Fig.5

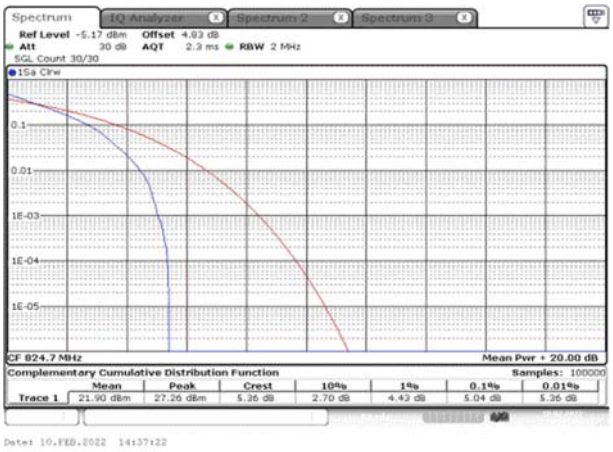

Fig.6

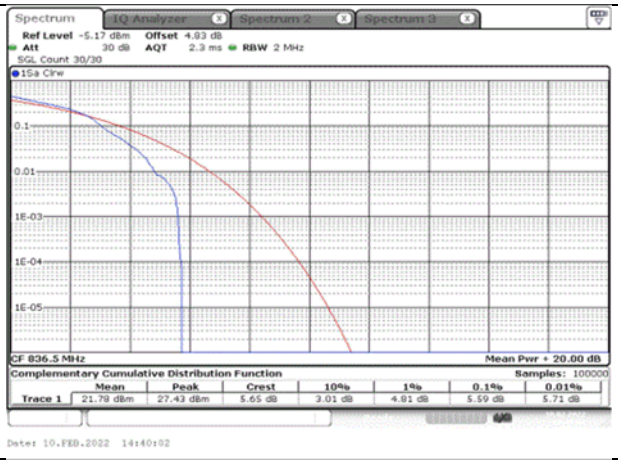

Fig.7

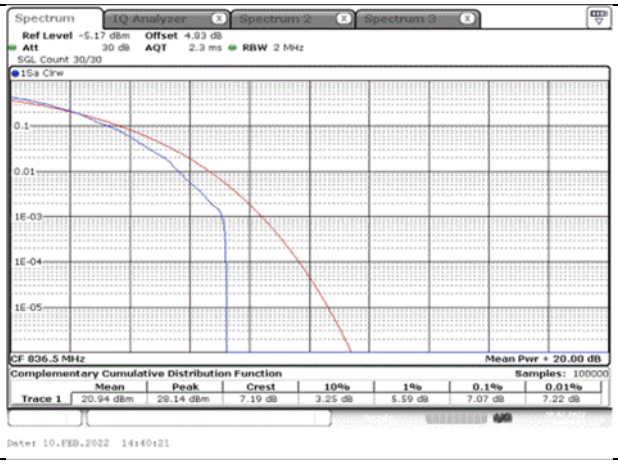

Fig.8

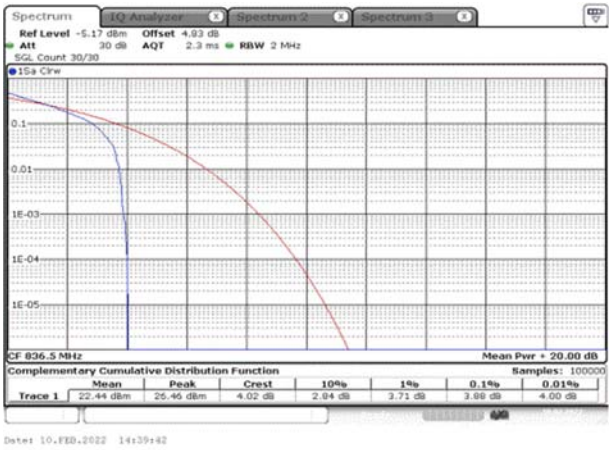

Fig.9

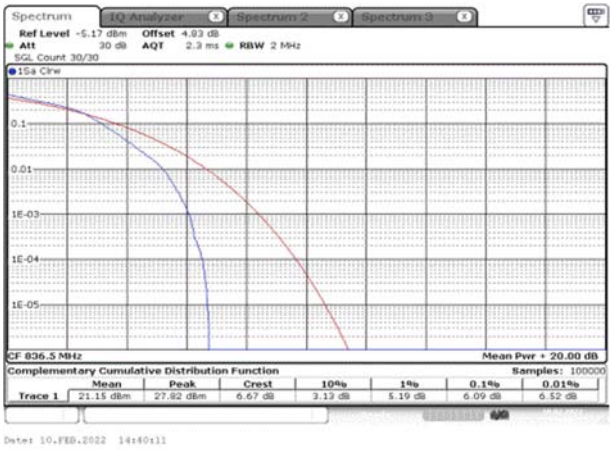

Fig.10

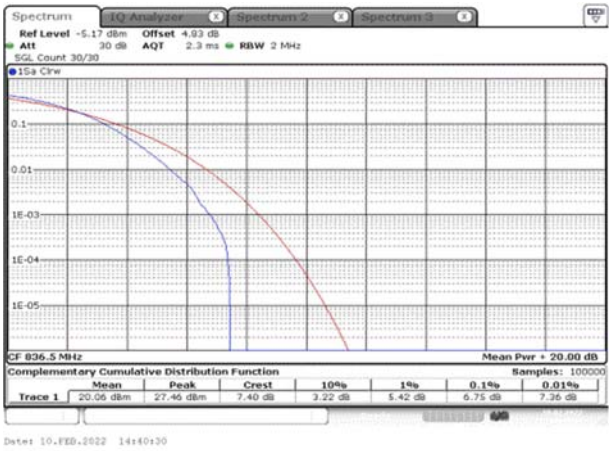

Fig.11

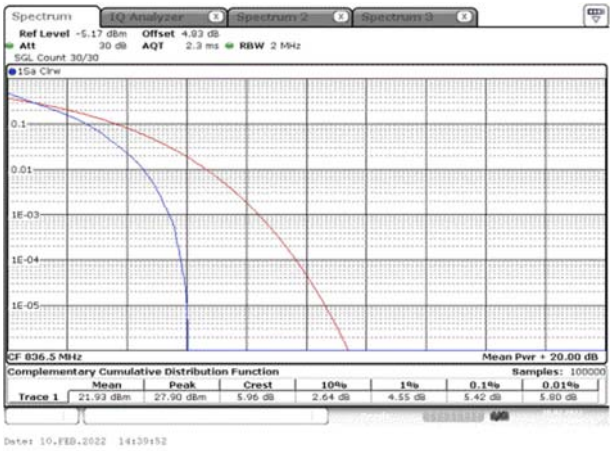

Fig.12

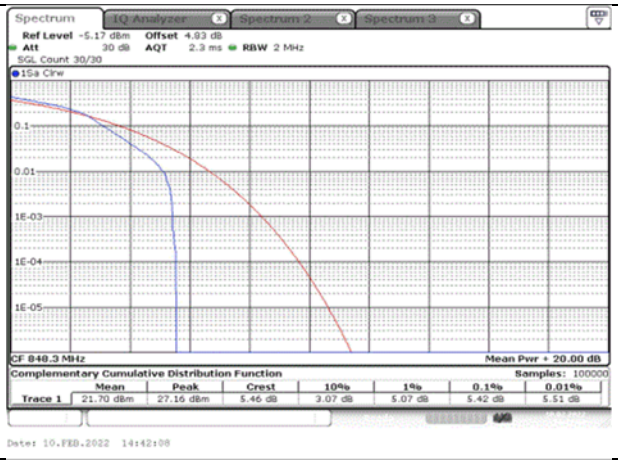

Fig.13

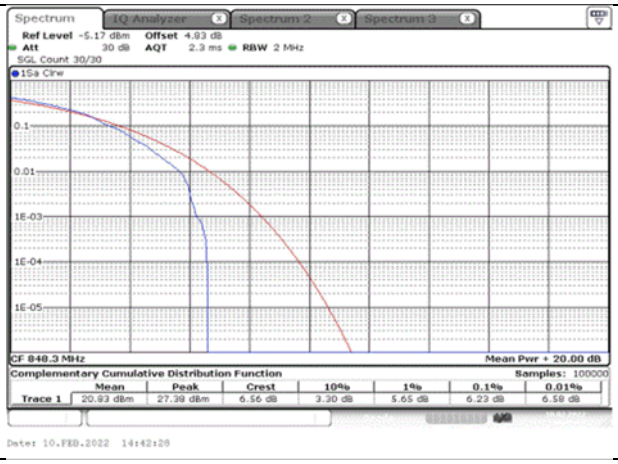

Fig.14

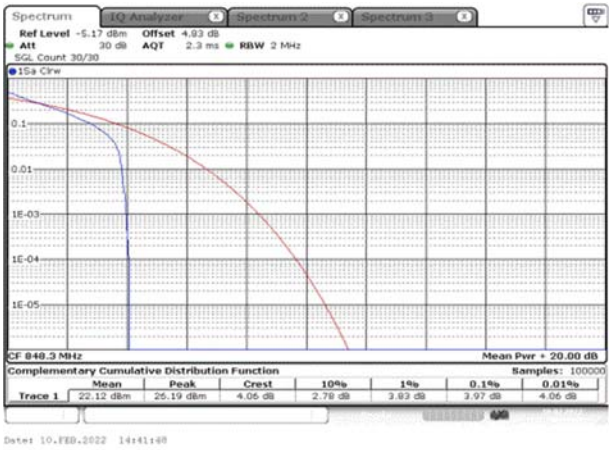

Fig.15

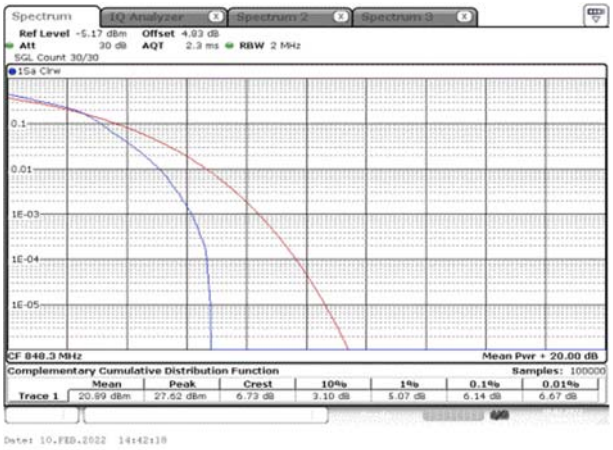

Fig.16

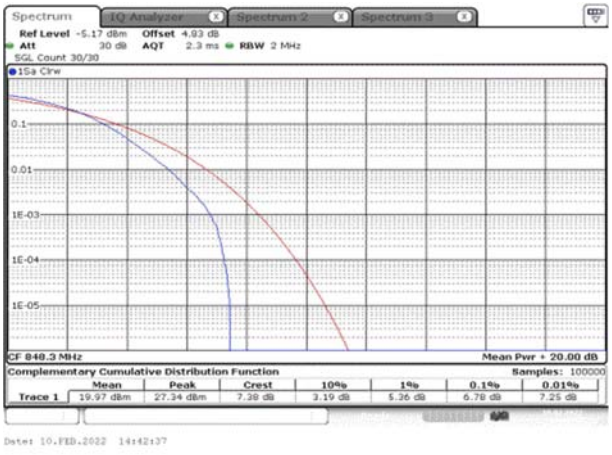

Fig.17

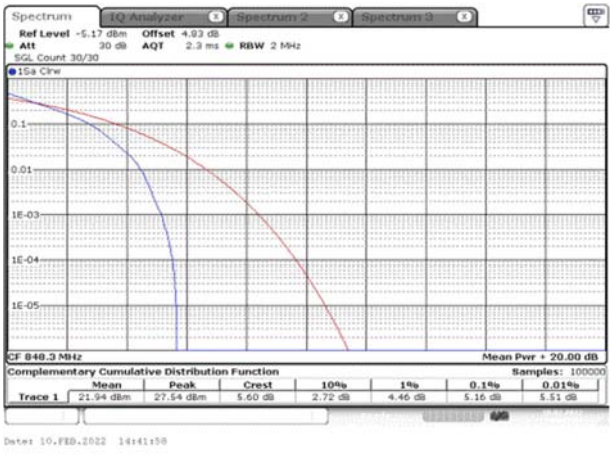

Fig.18