APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	699.7	23017	1.4	1	0	22.69
16QAM	699.7	23017	1.4	1	3	22.76
16QAM	699.7	23017	1.4	1	5	22.62
16QAM	699.7	23017	1.4	3	0	22.90
16QAM	699.7	23017	1.4	3	1	22.79
16QAM	699.7	23017	1.4	3	3	22.98
16QAM	699.7	23017	1.4	6	0	21.75
16QAM	707.5	23095	1.4	1	0	22.81
16QAM	707.5	23095	1.4	1	3	22.71
16QAM	707.5	23095	1.4	1	5	22.71
16QAM	707.5	23095	1.4	3	0	22.86
16QAM	707.5	23095	1.4	3	1	22.94
16QAM	707.5	23095	1.4	3	3	23.10
16QAM	707.5	23095	1.4	6	0	21.67
16QAM	715.3	23173	1.4	1	0	22.91
16QAM	715.3	23173	1.4	1	3	22.68
16QAM	715.3	23173	1.4	1	5	22.90
16QAM	715.3	23173	1.4	3	0	22.67
16QAM	715.3	23173	1.4	3	1	22.66
16QAM	715.3	23173	1.4	3	3	22.70
16QAM	715.3	23173	1.4	6	0	21.89
64QAM	699.7	23017	1.4	1	0	22.24
64QAM	699.7	23017	1.4	1	3	22.22
64QAM	699.7	23017	1.4	1	5	22.06
64QAM	699.7	23017	1.4	3	0	22.05
64QAM	699.7	23017	1.4	3	1	22.04
64QAM	699.7	23017	1.4	3	3	22.02
64QAM	699.7	23017	1.4	6	0	20.63
64QAM	707.5	23095	1.4	1	0	22.15
64QAM	707.5	23095	1.4	1	3	22.21
64QAM	707.5	23095	1.4	1	5	22.18
64QAM	707.5	23095	1.4	3	0	21.97
64QAM	707.5	23095	1.4	3	1	22.16
64QAM	707.5	23095	1.4	3	3	22.06
64QAM	707.5	23095	1.4	6	0	20.71
64QAM	715.3	23173	1.4	1	0	21.84
64QAM	715.3	23173	1.4	1	3	21.78
64QAM	715.3	23173	1.4	1	5	21.73
64QAM	715.3	23173	1.4	3	0	21.75
64QAM	715.3	23173	1.4	3	1	21.82
64QAM	715.3	23173	1.4	3	3	21.68
64QAM	715.3	23173	1.4	6	0	20.98

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	23.57
QPSK	699.7	23017	1.4	1	3	23.41
QPSK	699.7	23017	1.4	1	5	23.40
QPSK	699.7	23017	1.4	3	0	23.57
QPSK	699.7	23017	1.4	3	1	23.55
QPSK	699.7	23017	1.4	3	3	23.44
QPSK	699.7	23017	1.4	6	0	22.72
QPSK	707.5	23095	1.4	1	0	23.33
QPSK	707.5	23095	1.4	1	3	23.48
QPSK	707.5	23095	1.4	1	5	23.39
QPSK	707.5	23095	1.4	3	0	23.35
QPSK	707.5	23095	1.4	3	1	23.49
QPSK	707.5	23095	1.4	3	3	23.31
QPSK	707.5	23095	1.4	6	0	22.70
QPSK	715.3	23173	1.4	1	0	23.47
QPSK	715.3	23173	1.4	1	3	23.50
QPSK	715.3	23173	1.4	1	5	23.41
QPSK	715.3	23173	1.4	3	0	23.48
QPSK	715.3	23173	1.4	3	1	23.39
QPSK	715.3	23173	1.4	3	3	23.39
QPSK	715.3	23173	1.4	6	0	22.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	700.5	23025	3	1	0	23.34
16QAM	700.5	23025	3	1	8	23.13
16QAM	700.5	23025	3	1	14	23.04
16QAM	700.5	23025	3	8	0	21.88
16QAM	700.5	23025	3	8	4	21.90
16QAM	700.5	23025	3	8	7	21.82
16QAM	700.5	23025	3	15	0	21.81
16QAM	707.5	23095	3	1	0	22.91
16QAM	707.5	23095	3	1	8	22.99
16QAM	707.5	23095	3	1	14	22.89
16QAM	707.5	23095	3	8	0	21.65
16QAM	707.5	23095	3	8	4	21.82
16QAM	707.5	23095	3	8	7	21.71
16QAM	707.5	23095	3	15	0	21.81
16QAM	714.5	23165	3	1	0	22.95
16QAM	714.5	23165	3	1	8	22.82
16QAM	714.5	23165	3	1	14	22.97
16QAM	714.5	23165	3	8	0	21.81
16QAM	714.5	23165	3	8	4	21.86
16QAM	714.5	23165	3	8	7	21.72
16QAM	714.5	23165	3	15	0	21.65
64QAM	700.5	23025	3	1	0	22.15
64QAM	700.5	23025	3	1	8	22.35
64QAM	700.5	23025	3	1	14	22.11
64QAM	700.5	23025	3	8	0	20.84
64QAM	700.5	23025	3	8	4	20.88
64QAM	700.5	23025	3	8	7	20.73
64QAM	700.5	23025	3	15	0	20.70
64QAM	707.5	23095	3	1	0	22.10
64QAM	707.5	23095	3	1	8	22.19
64QAM	707.5	23095	3	1	14	22.15
64QAM	707.5	23095	3	8	0	20.81
64QAM	707.5	23095	3	8	4	20.80
64QAM	707.5	23095	3	8	7	20.73
64QAM	707.5	23095	3	15	0	20.89
64QAM	714.5	23165	3	1	0	21.81
64QAM	714.5	23165	3	1	8	21.87
64QAM	714.5	23165	3	1	14	21.85
64QAM	714.5	23165	3	8	0	20.67
64QAM	714.5	23165	3	8	4	20.75
64QAM	714.5	23165	3	8	7	20.81
64QAM	714.5	23165	3	15	0	20.84

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	23.36
QPSK	700.5	23025	3	1	8	23.48
QPSK	700.5	23025	3	1	14	23.45
QPSK	700.5	23025	3	8	0	22.76
QPSK	700.5	23025	3	8	4	22.71
QPSK	700.5	23025	3	8	7	22.73
QPSK	700.5	23025	3	15	0	22.82
QPSK	707.5	23095	3	1	0	23.49
QPSK	707.5	23095	3	1	8	23.50
QPSK	707.5	23095	3	1	14	23.48
QPSK	707.5	23095	3	8	0	22.71
QPSK	707.5	23095	3	8	4	22.78
QPSK	707.5	23095	3	8	7	22.72
QPSK	707.5	23095	3	15	0	22.76
QPSK	714.5	23165	3	1	0	23.49
QPSK	714.5	23165	3	1	8	23.63
QPSK	714.5	23165	3	1	14	23.46
QPSK	714.5	23165	3	8	0	22.70
QPSK	714.5	23165	3	8	4	22.77
QPSK	714.5	23165	3	8	7	22.72
QPSK	714.5	23165	3	15	0	22.72

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	701.5	23035	5	1	0	22.47
16QAM	701.5	23035	5	1	12	22.82
16QAM	701.5	23035	5	1	24	22.90
16QAM	701.5	23035	5	12	0	21.84
16QAM	701.5	23035	5	12	7	21.58
16QAM	701.5	23035	5	12	13	21.74
16QAM	701.5	23035	5	25	0	21.74
16QAM	707.5	23095	5	1	0	23.19
16QAM	707.5	23095	5	1	12	22.98
16QAM	707.5	23095	5	1	24	23.06
16QAM	707.5	23095	5	12	0	21.74
16QAM	707.5	23095	5	12	7	21.69
16QAM	707.5	23095	5	12	13	21.75
16QAM	707.5	23095	5	25	0	21.65
16QAM	713.5	23155	5	1	0	22.93
16QAM	713.5	23155	5	1	12	22.87
16QAM	713.5	23155	5	1	24	22.96
16QAM	713.5	23155	5	12	0	21.73
16QAM	713.5	23155	5	12	7	21.84
16QAM	713.5	23155	5	12	13	21.76
16QAM	713.5	23155	5	25	0	21.72
64QAM	701.5	23035	5	1	0	21.75
64QAM	701.5	23035	5	1	12	21.78
64QAM	701.5	23035	5	1	24	21.87
64QAM	701.5	23035	5	12	0	20.73
64QAM	701.5	23035	5	12	7	20.79
64QAM	701.5	23035	5	12	13	20.78
64QAM	701.5	23035	5	25	0	20.71
64QAM	707.5	23095	5	1	0	21.78
64QAM	707.5	23095	5	1	12	21.97
64QAM	707.5	23095	5	1	24	22.00
64QAM	707.5	23095	5	12	0	20.79
64QAM	707.5	23095	5	12	7	20.73
64QAM	707.5	23095	5	12	13	20.75
64QAM	707.5	23095	5	25	0	20.82
64QAM	713.5	23155	5	1	0	21.65
64QAM	713.5	23155	5	1	12	21.98
64QAM	713.5	23155	5	1	24	21.80
64QAM	713.5	23155	5	12	0	20.84
64QAM	713.5	23155	5	12	7	21.03
64QAM	713.5	23155	5	12	13	20.83
64QAM	713.5	23155	5	25	0	20.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	23.32
QPSK	701.5	23035	5	1	12	23.40
QPSK	701.5	23035	5	1	24	23.37
QPSK	701.5	23035	5	12	0	22.74
QPSK	701.5	23035	5	12	7	22.70
QPSK	701.5	23035	5	12	13	22.69
QPSK	701.5	23035	5	25	0	22.72
QPSK	707.5	23095	5	1	0	23.30
QPSK	707.5	23095	5	1	12	23.48
QPSK	707.5	23095	5	1	24	23.38
QPSK	707.5	23095	5	12	0	22.62
QPSK	707.5	23095	5	12	7	22.83
QPSK	707.5	23095	5	12	13	22.78
QPSK	707.5	23095	5	25	0	22.74
QPSK	713.5	23155	5	1	0	23.50
QPSK	713.5	23155	5	1	12	23.37
QPSK	713.5	23155	5	1	24	23.38
QPSK	713.5	23155	5	12	0	22.68
QPSK	713.5	23155	5	12	7	22.76
QPSK	713.5	23155	5	12	13	22.64
QPSK	713.5	23155	5	25	0	22.64

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704	23060	10	1	0	23.29
16QAM	704	23060	10	1	25	23.74
16QAM	704	23060	10	1	49	23.23
16QAM	704	23060	10	25	0	21.68
16QAM	704	23060	10	25	12	21.74
16QAM	704	23060	10	25	25	21.86
16QAM	704	23060	10	50	0	21.83
16QAM	707.5	23095	10	1	0	23.41
16QAM	707.5	23095	10	1	25	23.76
16QAM	707.5	23095	10	1	49	23.50
16QAM	707.5	23095	10	25	0	21.76
16QAM	707.5	23095	10	25	12	21.86
16QAM	707.5	23095	10	25	25	21.77
16QAM	707.5	23095	10	50	0	21.78
16QAM	711	23130	10	1	0	22.96
16QAM	711	23130	10	1	25	22.82
16QAM	711	23130	10	1	49	22.98
16QAM	711	23130	10	25	0	21.76
16QAM	711	23130	10	25	12	21.80
16QAM	711	23130	10	25	25	21.89
16QAM	711	23130	10	50	0	21.70
64QAM	704	23060	10	1	0	21.99
64QAM	704	23060	10	1	25	22.10
64QAM	704	23060	10	1	49	22.19
64QAM	704	23060	10	25	0	20.67
64QAM	704	23060	10	25	12	20.87
64QAM	704	23060	10	25	25	20.83
64QAM	704	23060	10	50	0	20.68
64QAM	707.5	23095	10	1	0	22.10
64QAM	707.5	23095	10	1	25	22.10
64QAM	707.5	23095	10	1	49	22.18
64QAM	707.5	23095	10	25	0	20.89
64QAM	707.5	23095	10	25	12	20.94
64QAM	707.5	23095	10	25	25	20.80
64QAM	707.5	23095	10	50	0	20.86
64QAM	711	23130	10	1	0	22.01
64QAM	711	23130	10	1	25	21.79
64QAM	711	23130	10	1	49	22.10
64QAM	711	23130	10	25	0	20.78
64QAM	711	23130	10	25	12	20.82
64QAM	711	23130	10	25	25	20.96
64QAM	711	23130	10	50	0	20.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	23.55
QPSK	704	23060	10	1	25	23.38
QPSK	704	23060	10	1	49	23.54
QPSK	704	23060	10	25	0	22.68
QPSK	704	23060	10	25	12	22.83
QPSK	704	23060	10	25	25	22.82
QPSK	704	23060	10	50	0	22.84
QPSK	707.5	23095	10	1	0	23.64
QPSK	707.5	23095	10	1	25	23.40
QPSK	707.5	23095	10	1	49	23.52
QPSK	707.5	23095	10	25	0	22.72
QPSK	707.5	23095	10	25	12	22.69
QPSK	707.5	23095	10	25	25	22.76
QPSK	707.5	23095	10	50	0	22.77
QPSK	711	23130	10	1	0	23.54
QPSK	711	23130	10	1	25	23.52
QPSK	711	23130	10	1	49	23.62
QPSK	711	23130	10	25	0	22.70
QPSK	711	23130	10	25	12	22.71
QPSK	711	23130	10	25	25	22.87
QPSK	711	23130	10	50	0	22.80

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	QPSK	699.7	23017	1.4	6	0	1.076	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.082	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.082	Fig.3
12	QPSK	700.5	23025	3	15	0	2.683	Fig.4
12	QPSK	707.5	23095	3	15	0	2.683	Fig.5
12	QPSK	714.5	23165	3	15	0	2.683	Fig.6
12	QPSK	701.5	23035	5	25	0	4.472	Fig.7
12	QPSK	707.5	23095	5	25	0	4.450	Fig.8
12	QPSK	713.5	23155	5	25	0	4.472	Fig.9
12	QPSK	704	23060	10	50	0	8.944	Fig.10
12	QPSK	707.5	23095	10	50	0	8.944	Fig.11
12	QPSK	711	23130	10	50	0	8.944	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	16QAM	699.7	23017	1.4	6	0	1.088	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.082	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.082	Fig.15
12	16QAM	700.5	23025	3	15	0	2.683	Fig.16
12	16QAM	707.5	23095	3	15	0	2.683	Fig.17
12	16QAM	714.5	23165	3	15	0	2.683	Fig.18
12	16QAM	701.5	23035	5	25	0	4.450	Fig.19
12	16QAM	707.5	23095	5	25	0	4.472	Fig.20
12	16QAM	713.5	23155	5	25	0	4.450	Fig.21
12	16QAM	704	23060	10	50	0	8.944	Fig.22
12	16QAM	707.5	23095	10	50	0	8.944	Fig.23
12	16QAM	711	23130	10	50	0	8.944	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
12	64QAM	699.7	23017	1.4	6	0	1.082	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.082	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.088	Fig.27
12	64QAM	700.5	23025	3	15	0	2.683	Fig.28
12	64QAM	707.5	23095	3	15	0	2.683	Fig.29
12	64QAM	714.5	23165	3	15	0	2.683	Fig.30
12	64QAM	701.5	23035	5	25	0	4.450	Fig.31
12	64QAM	707.5	23095	5	25	0	4.472	Fig.32
12	64QAM	713.5	23155	5	25	0	4.450	Fig.33
12	64QAM	704	23060	10	50	0	8.944	Fig.34
12	64QAM	707.5	23095	10	50	0	8.944	Fig.35
12	64QAM	711	23130	10	50	0	8.900	Fig.36

Test Mode: QPSK

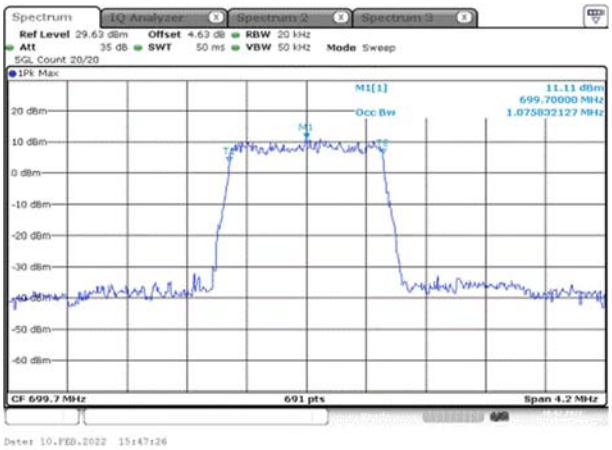


Fig.1

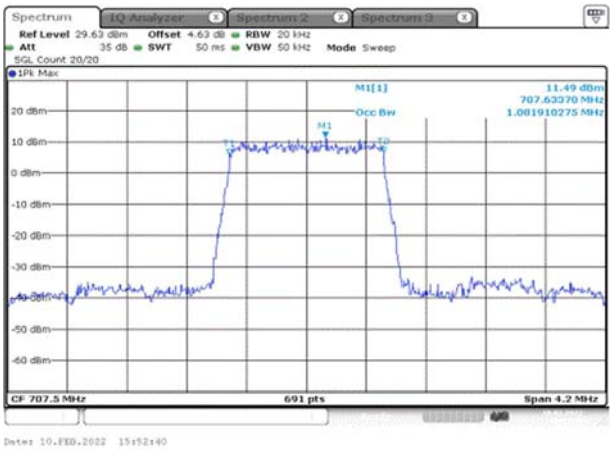


Fig.2

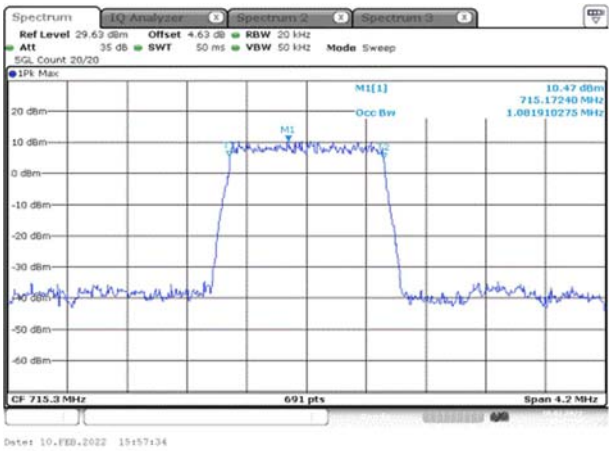


Fig.3

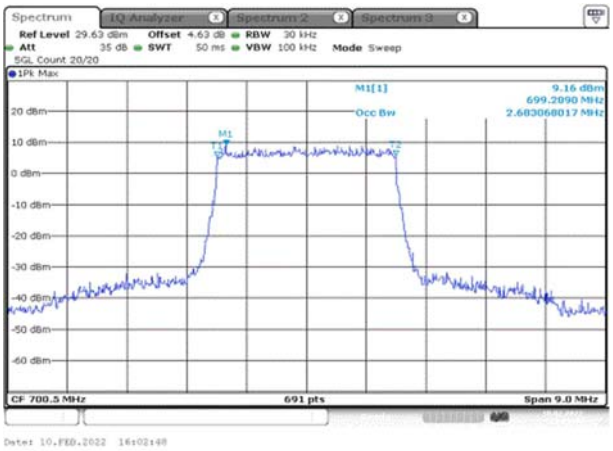


Fig.4

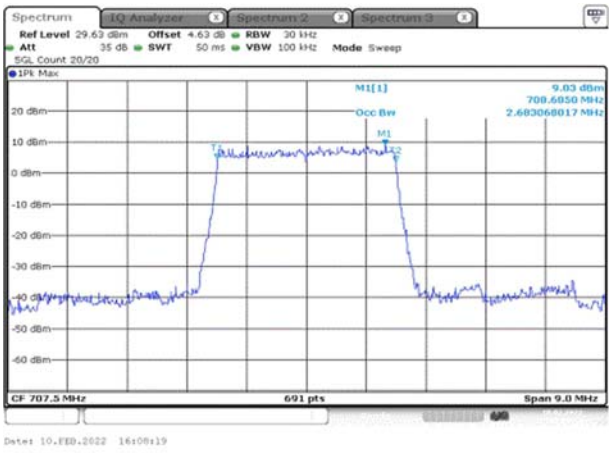


Fig.5

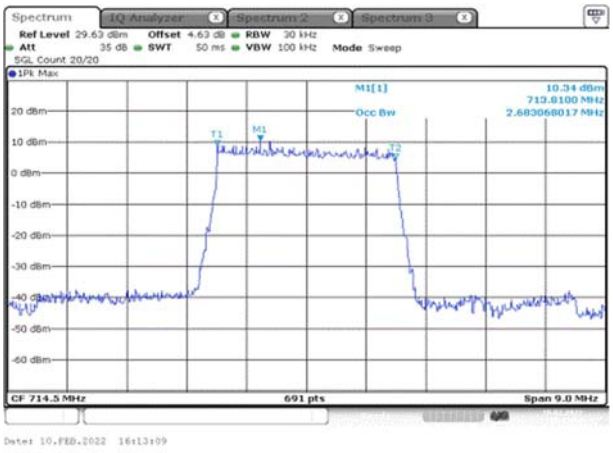


Fig.6

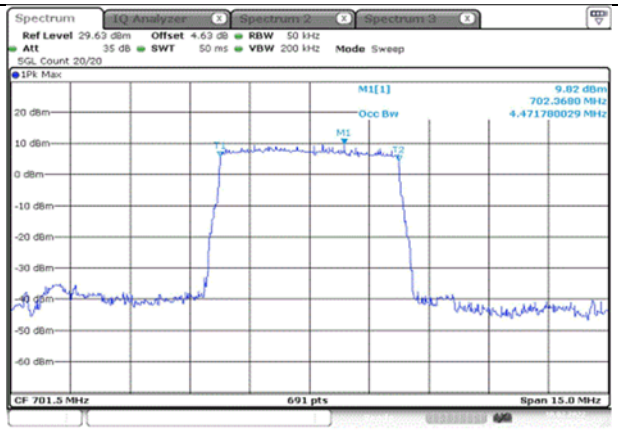


Fig.7

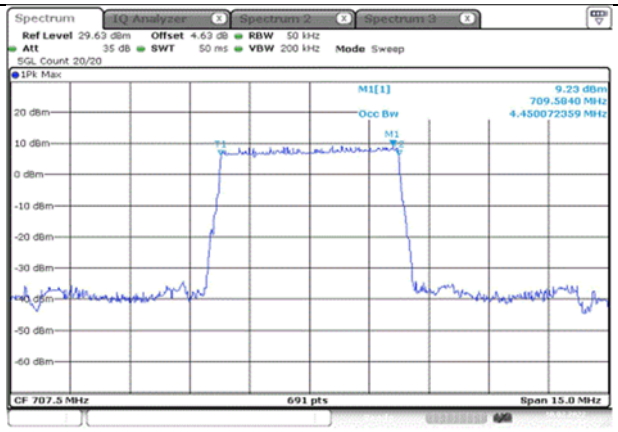


Fig.8

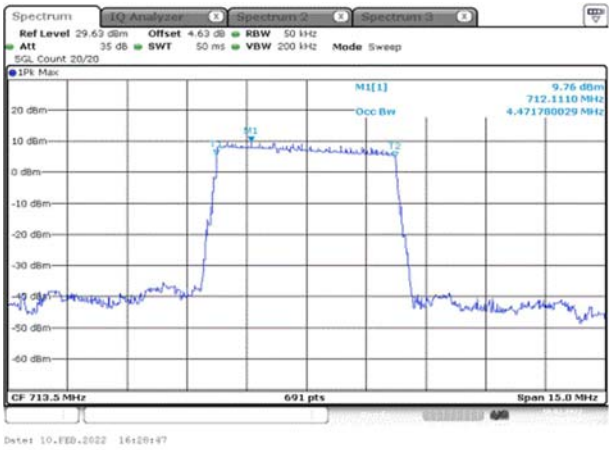


Fig.9

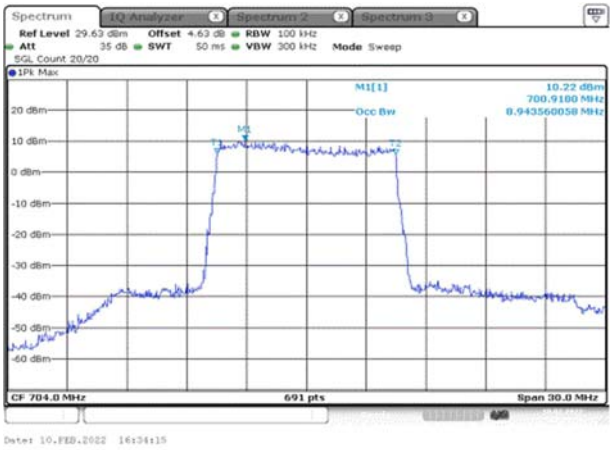


Fig.10

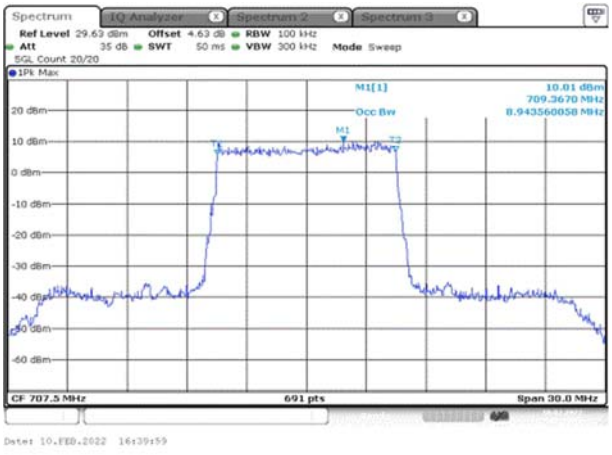


Fig.11

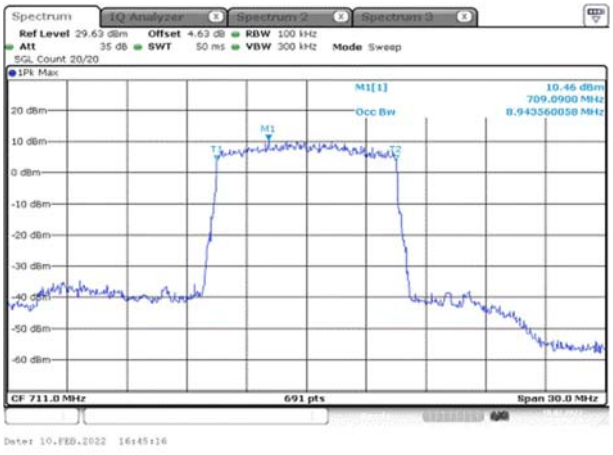


Fig.12

Test Mode: 16QAM

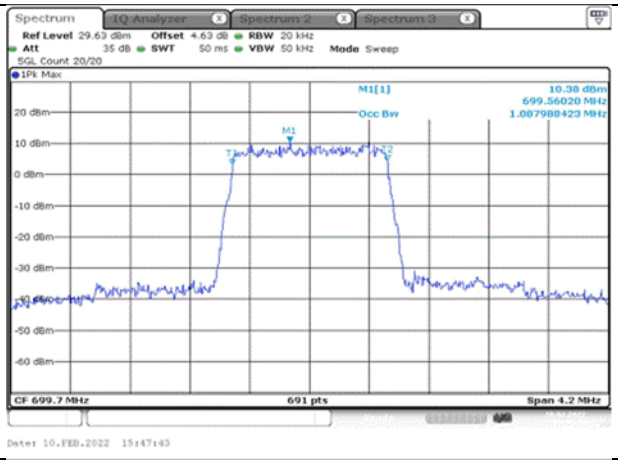


Fig.13

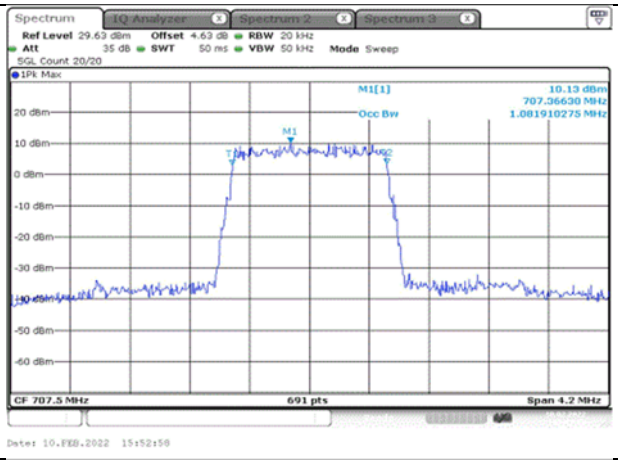
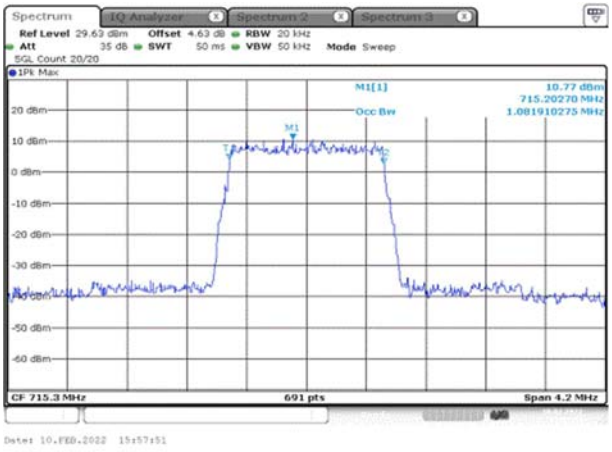


Fig.14



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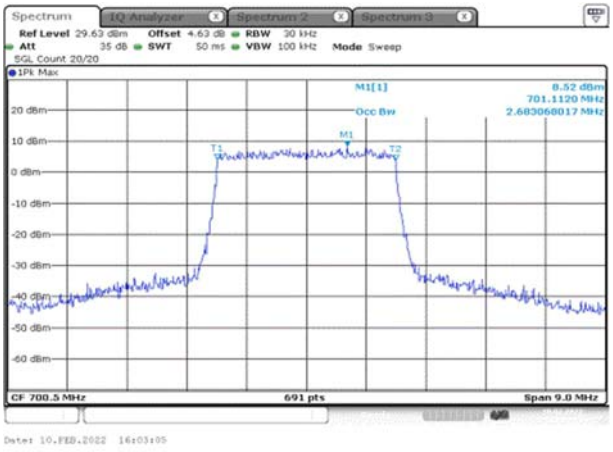
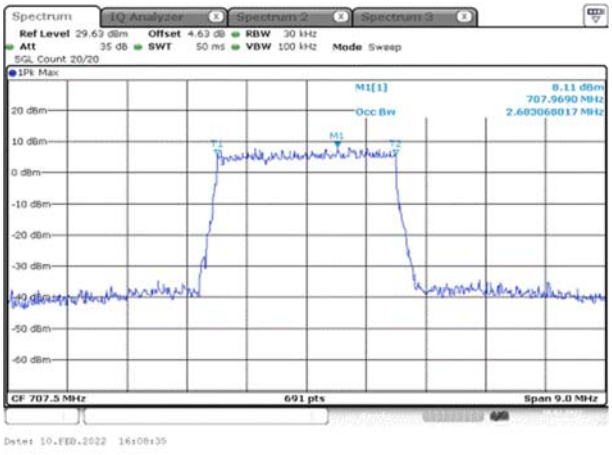


Fig.16



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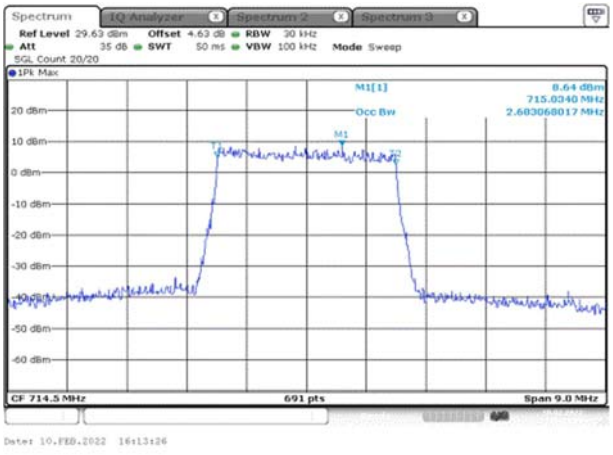

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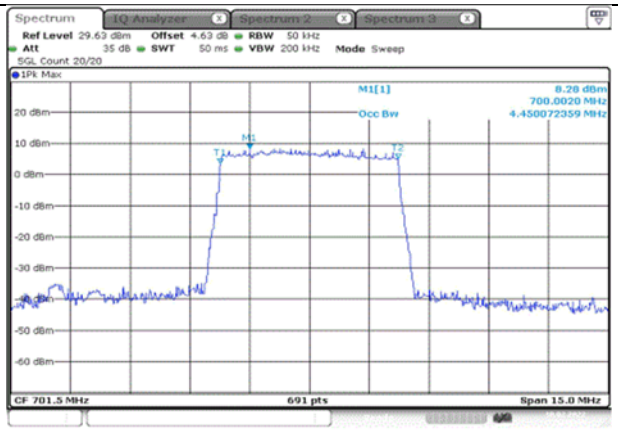

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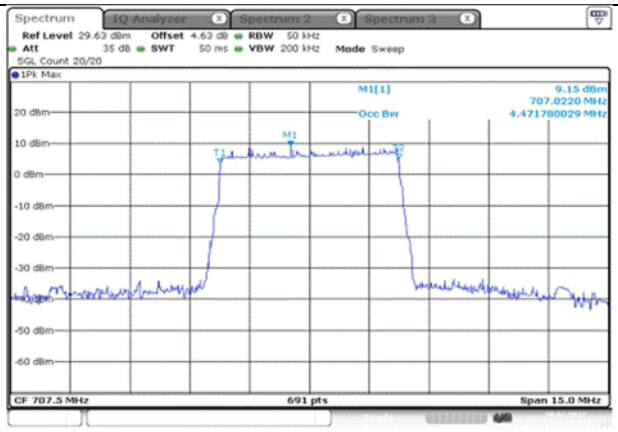


Fig.20

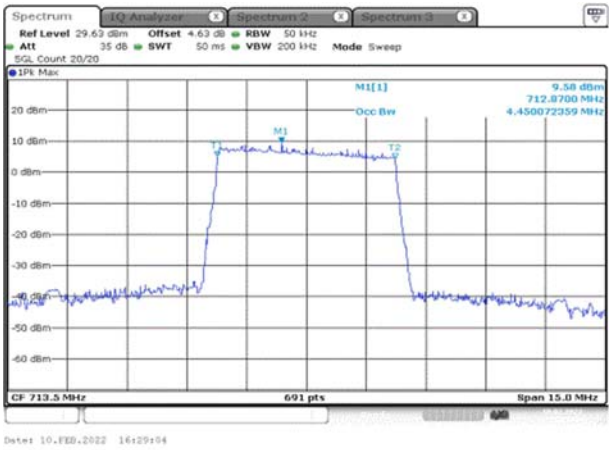
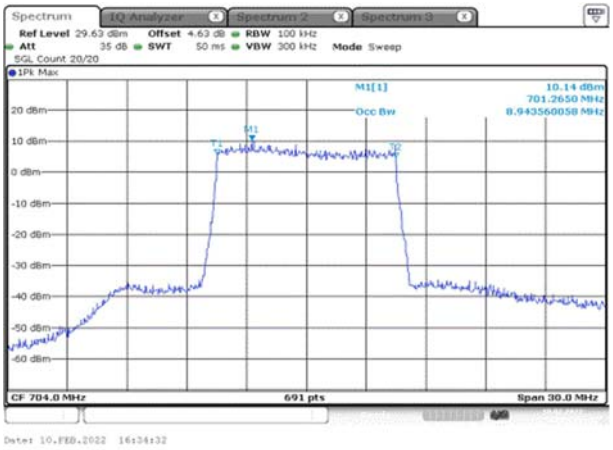


Fig.21



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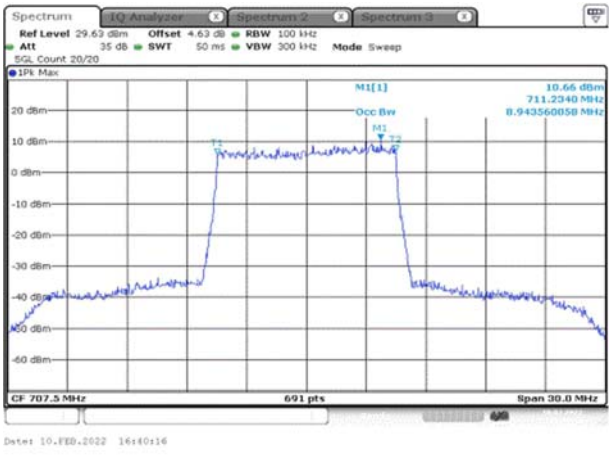

Fig.23

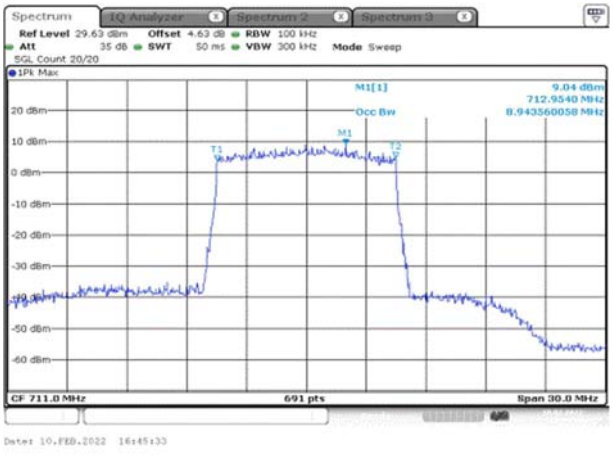

Fig.24

Test Mode: 64QAM

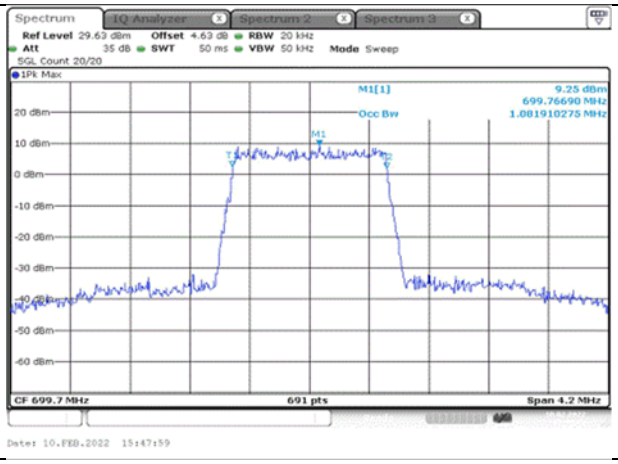

Fig.25

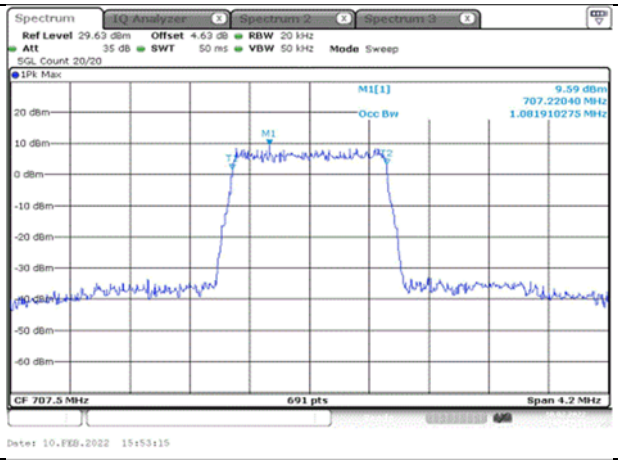

Fig.26

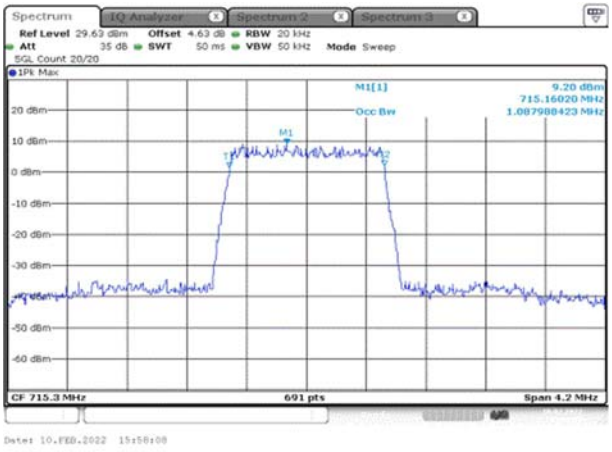

Fig.27

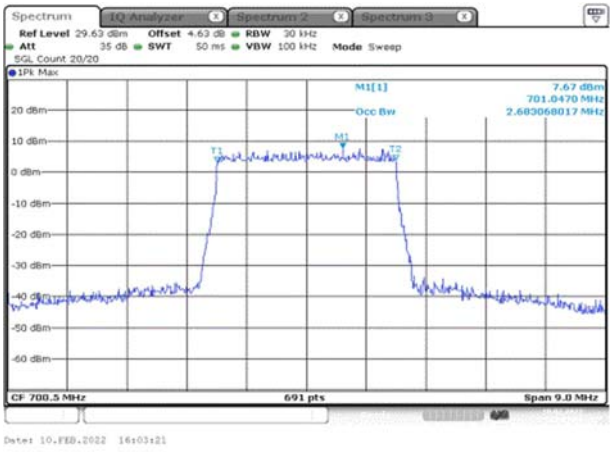

Fig.28

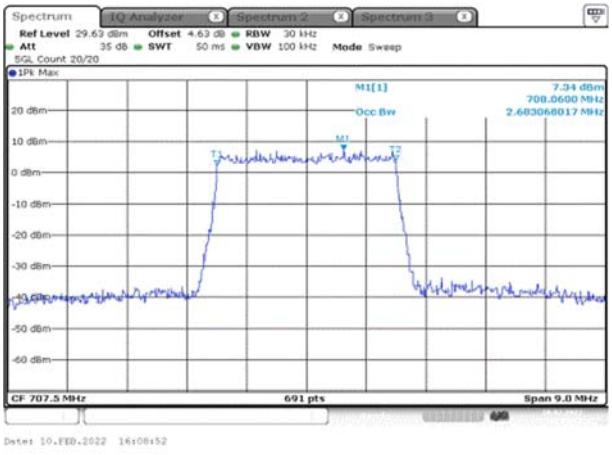

Fig.29

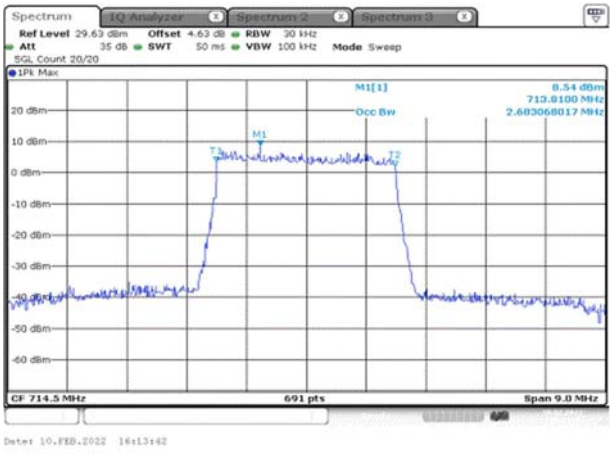

Fig.30

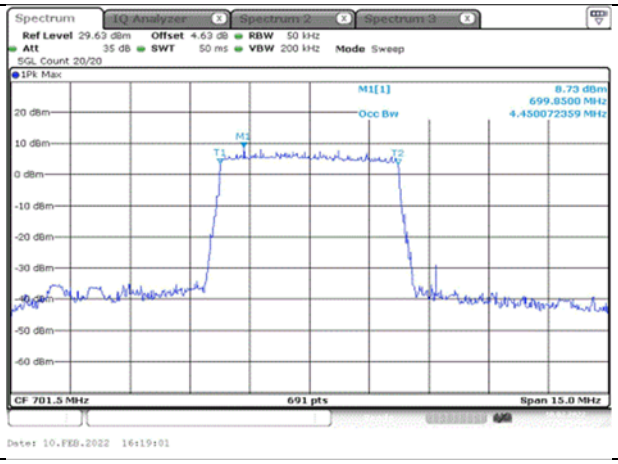

Fig.31

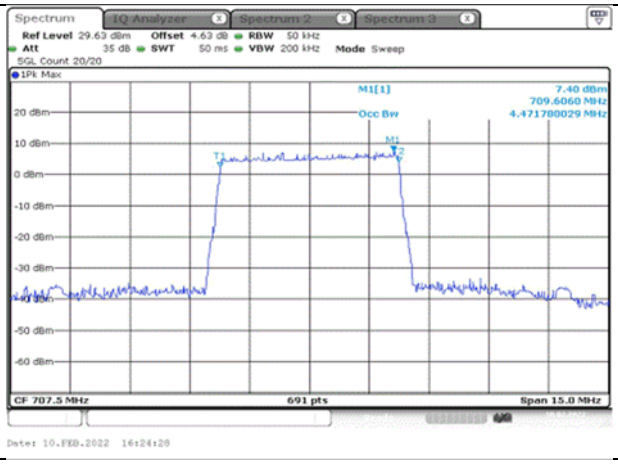

Fig.32

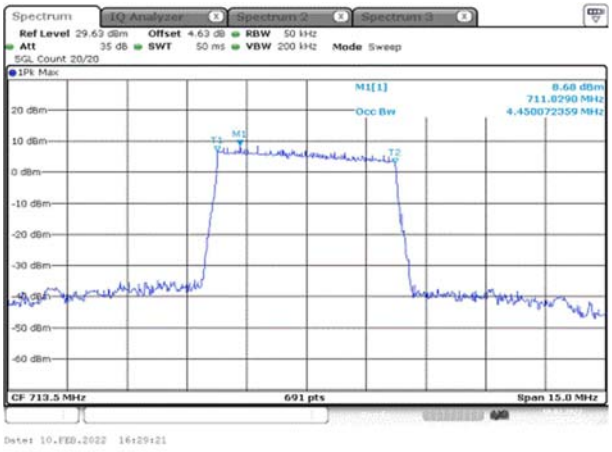

Fig.33

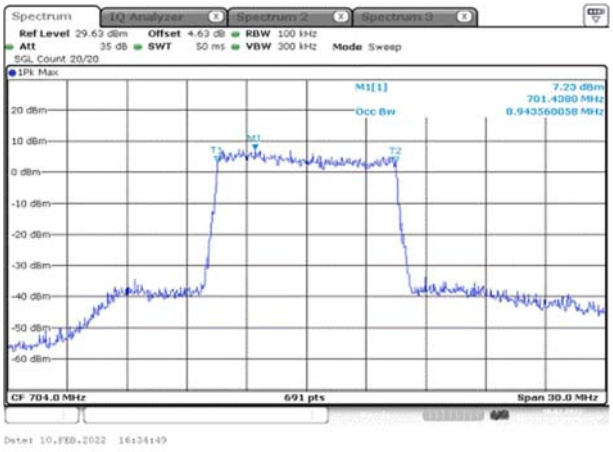

Fig.34

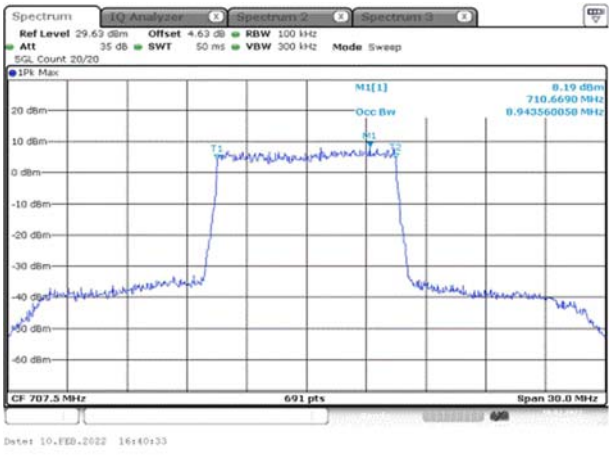

Fig.35

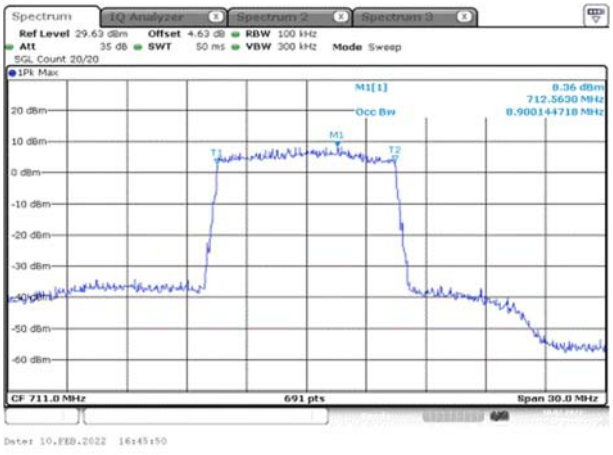

Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	QPSK	699.7	23017	1.4	6	0	1.204	Fig.1
12	QPSK	707.5	23095	1.4	6	0	1.222	Fig.2
12	QPSK	715.3	23173	1.4	6	0	1.210	Fig.3
12	QPSK	700.5	23025	3	15	0	2.918	Fig.4
12	QPSK	707.5	23095	3	15	0	2.931	Fig.5
12	QPSK	714.5	23165	3	15	0	2.878	Fig.6
12	QPSK	701.5	23035	5	25	0	4.841	Fig.7
12	QPSK	707.5	23095	5	25	0	4.884	Fig.8
12	QPSK	713.5	23155	5	25	0	4.863	Fig.9
12	QPSK	704	23060	10	50	0	9.682	Fig.10
12	QPSK	707.5	23095	10	50	0	9.682	Fig.11
12	QPSK	711	23130	10	50	0	9.508	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	16QAM	699.7	23017	1.4	6	0	1.240	Fig.13
12	16QAM	707.5	23095	1.4	6	0	1.222	Fig.14
12	16QAM	715.3	23173	1.4	6	0	1.216	Fig.15
12	16QAM	700.5	23025	3	15	0	2.891	Fig.16
12	16QAM	707.5	23095	3	15	0	2.944	Fig.17
12	16QAM	714.5	23165	3	15	0	2.918	Fig.18
12	16QAM	701.5	23035	5	25	0	4.797	Fig.19
12	16QAM	707.5	23095	5	25	0	4.841	Fig.20
12	16QAM	713.5	23155	5	25	0	4.841	Fig.21
12	16QAM	704	23060	10	50	0	9.682	Fig.22
12	16QAM	707.5	23095	10	50	0	9.508	Fig.23
12	16QAM	711	23130	10	50	0	9.465	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
12	64QAM	699.7	23017	1.4	6	0	1.216	Fig.25
12	64QAM	707.5	23095	1.4	6	0	1.222	Fig.26
12	64QAM	715.3	23173	1.4	6	0	1.210	Fig.27
12	64QAM	700.5	23025	3	15	0	2.904	Fig.28
12	64QAM	707.5	23095	3	15	0	2.944	Fig.29
12	64QAM	714.5	23165	3	15	0	2.904	Fig.30
12	64QAM	701.5	23035	5	25	0	4.863	Fig.31
12	64QAM	707.5	23095	5	25	0	4.863	Fig.32
12	64QAM	713.5	23155	5	25	0	4.841	Fig.33
12	64QAM	704	23060	10	50	0	9.595	Fig.34
12	64QAM	707.5	23095	10	50	0	9.551	Fig.35
12	64QAM	711	23130	10	50	0	9.551	Fig.36

Test Mode: QPSK

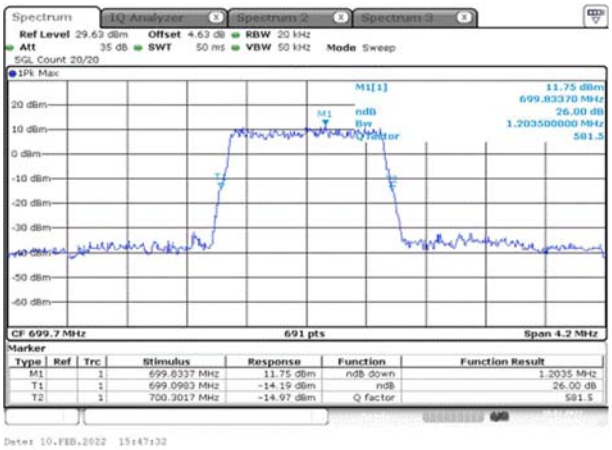

Fig.1

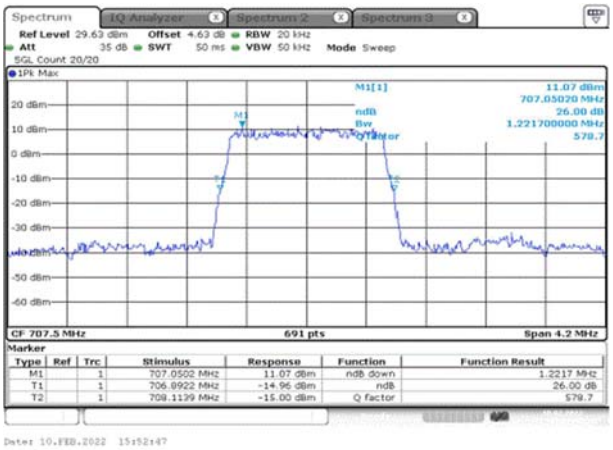

Fig.2

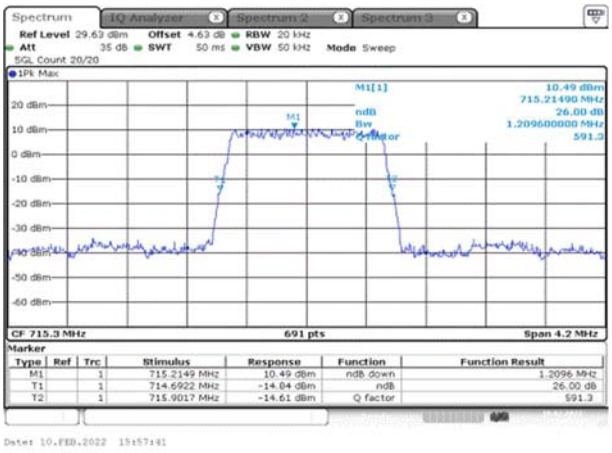

Fig.3

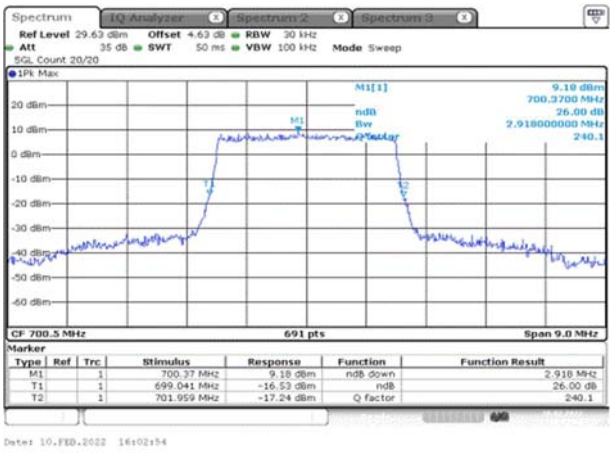

Fig.4

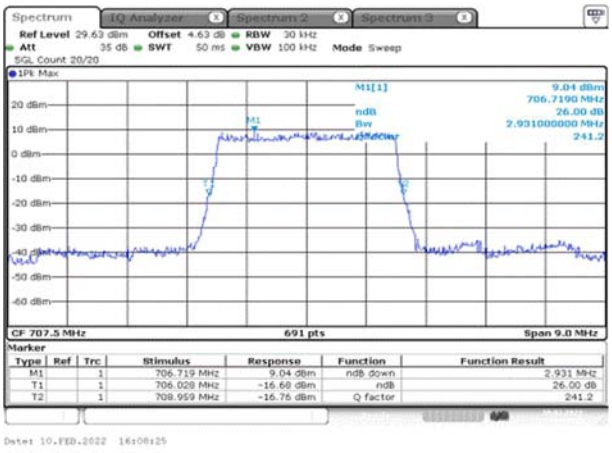

Fig.5

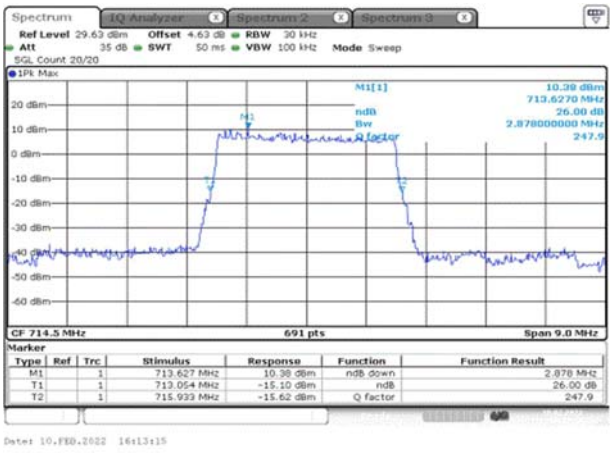

Fig.6

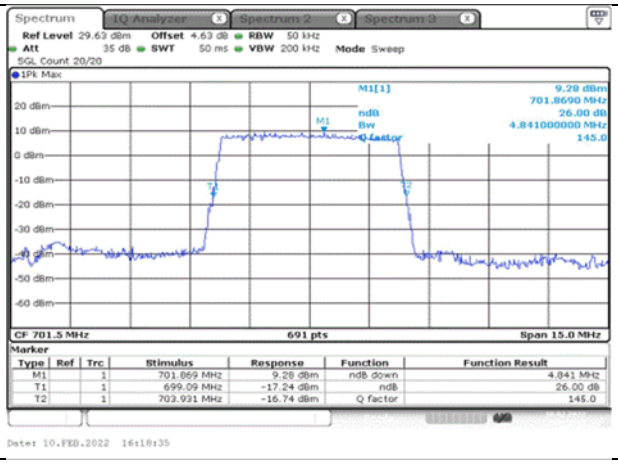

Fig.7

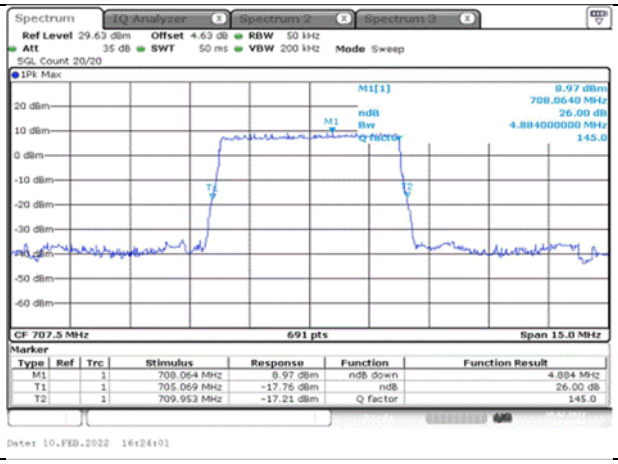

Fig.8

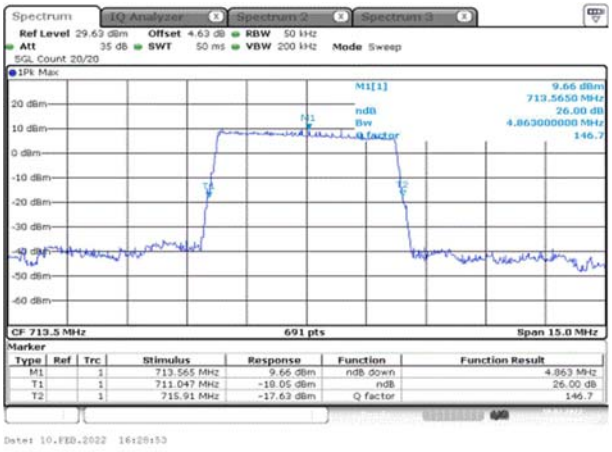

Fig.9

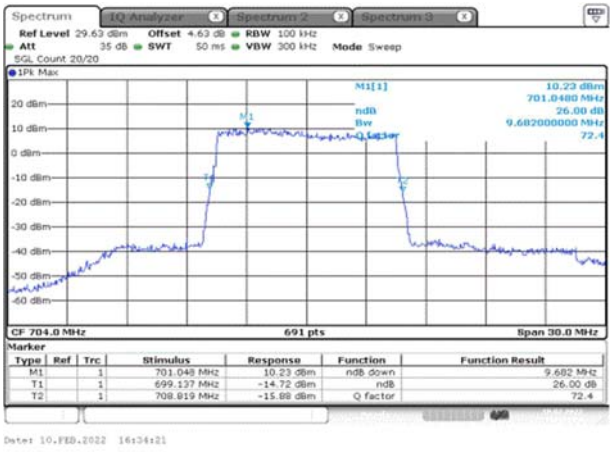

Fig.10

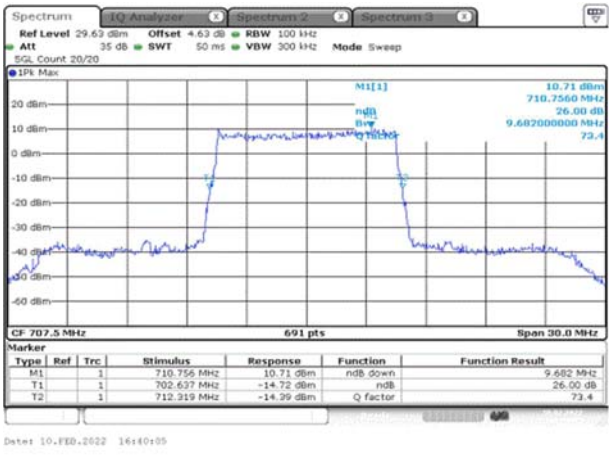

Fig.11

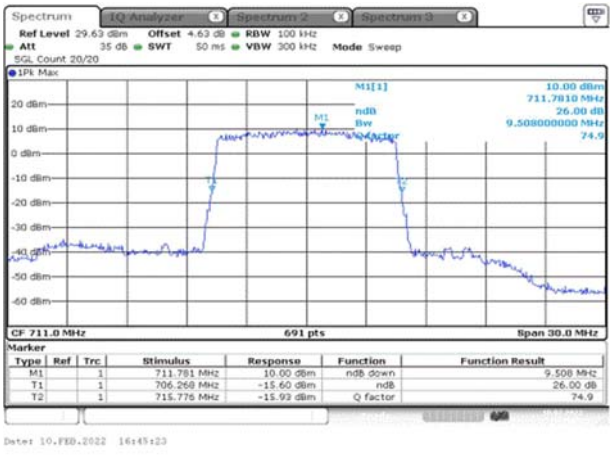

Fig.12

Test Mode: 16QAM

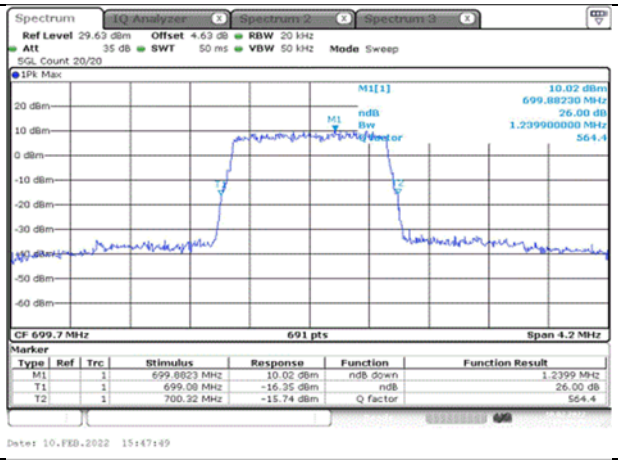

Fig.13

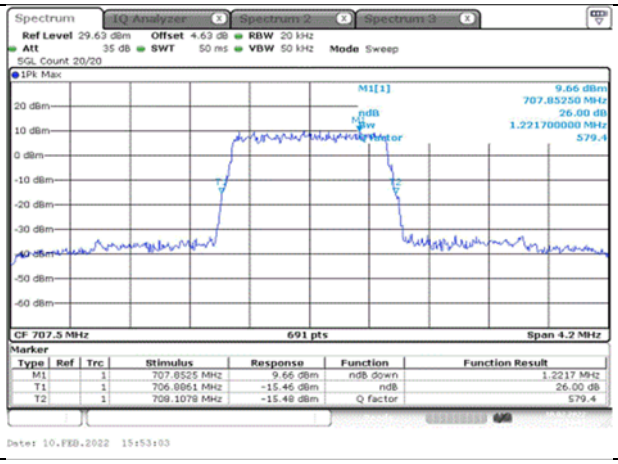

Fig.14

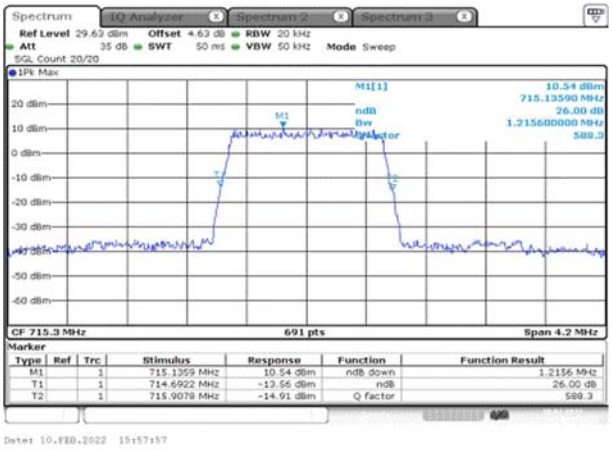

Fig.15

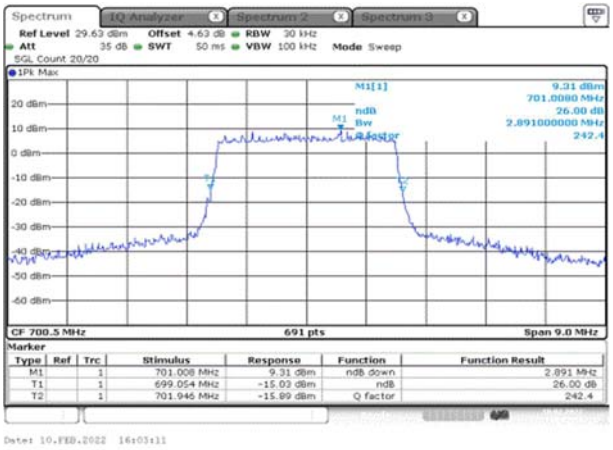

Fig.16

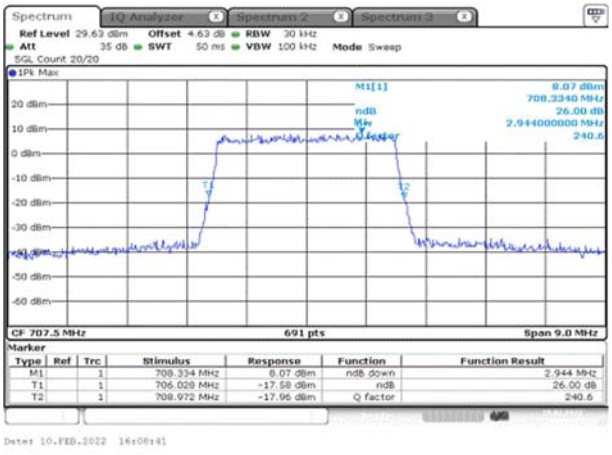

Fig.17

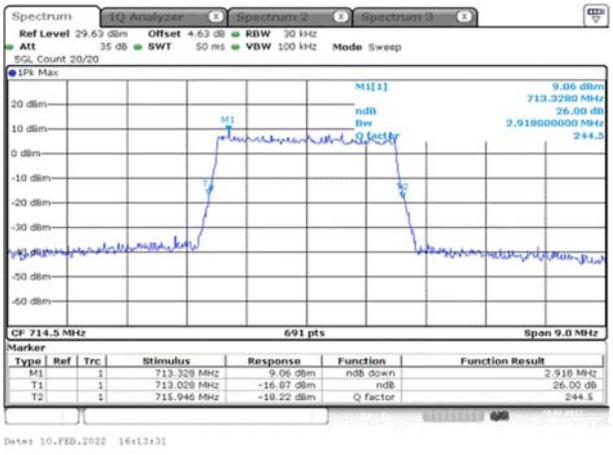

Fig.18

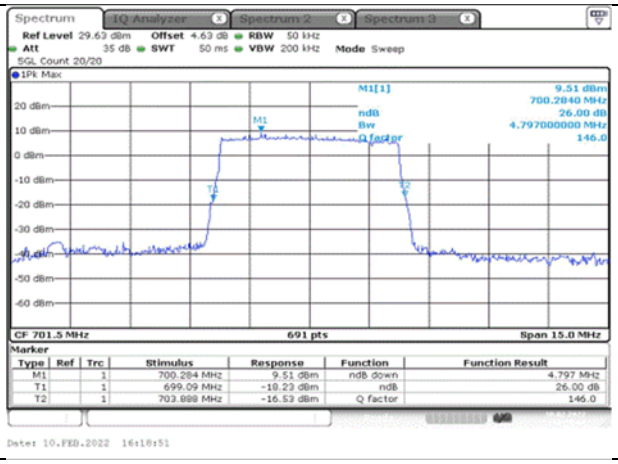

Fig.19

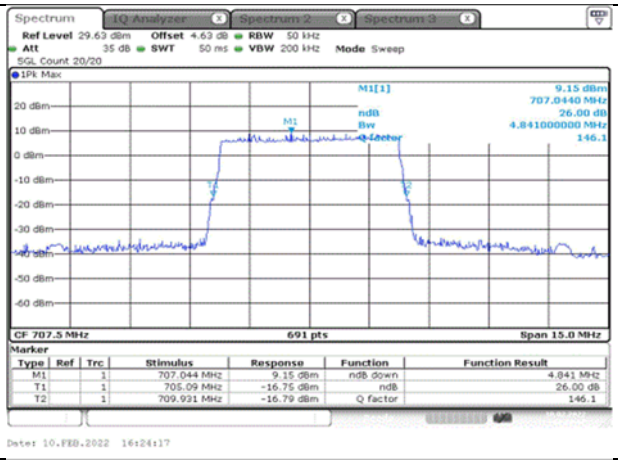

Fig.20

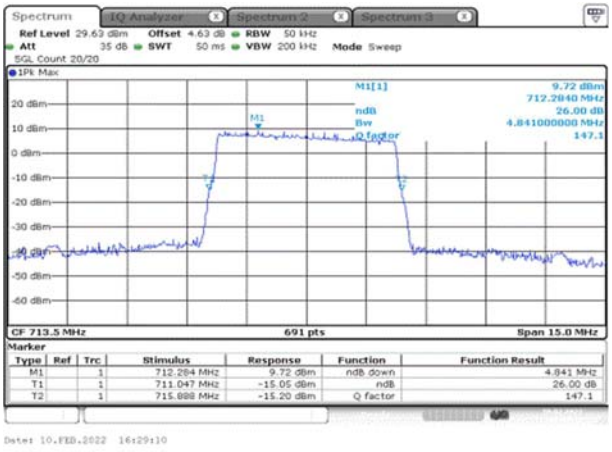

Fig.21

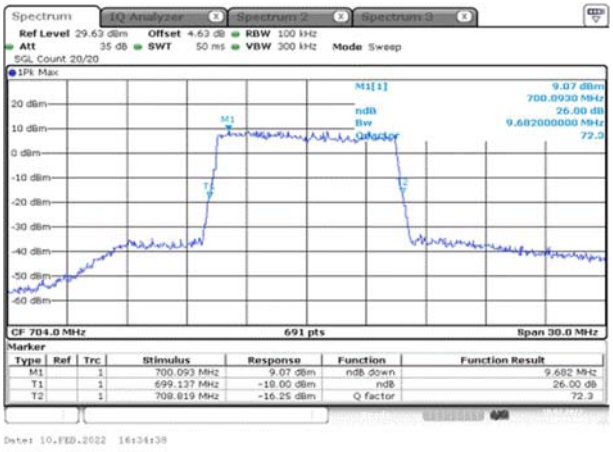

Fig.22

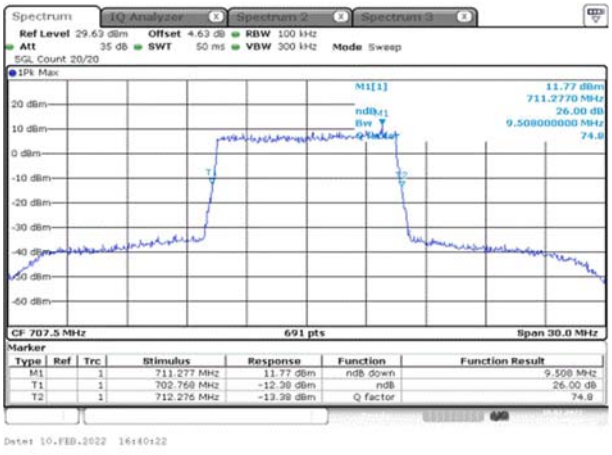

Fig.23

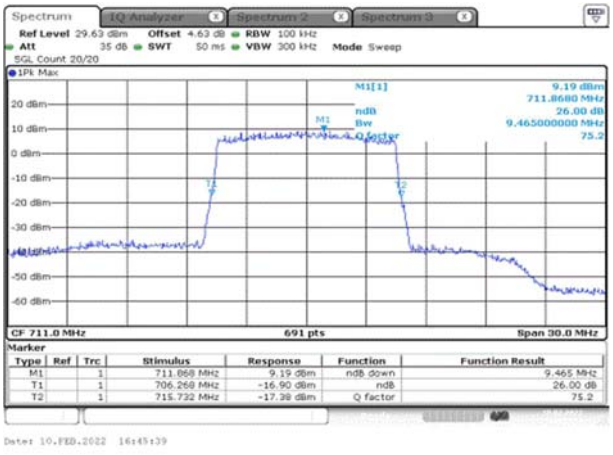

Fig.24

Test Mode: 64QAM

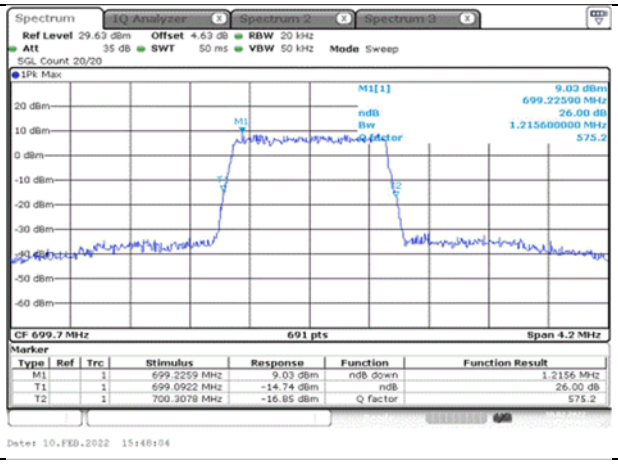

Fig.25

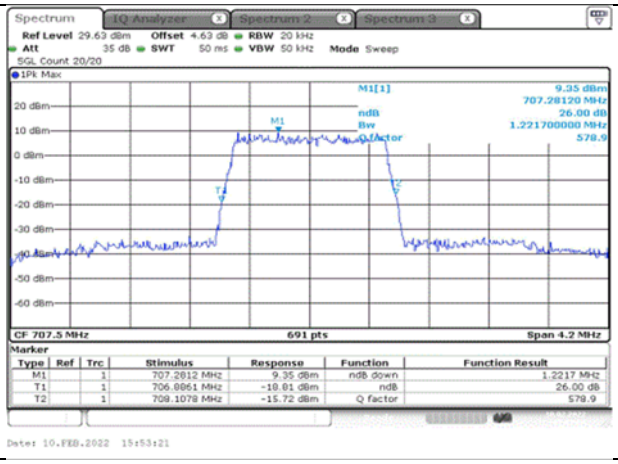

Fig.26

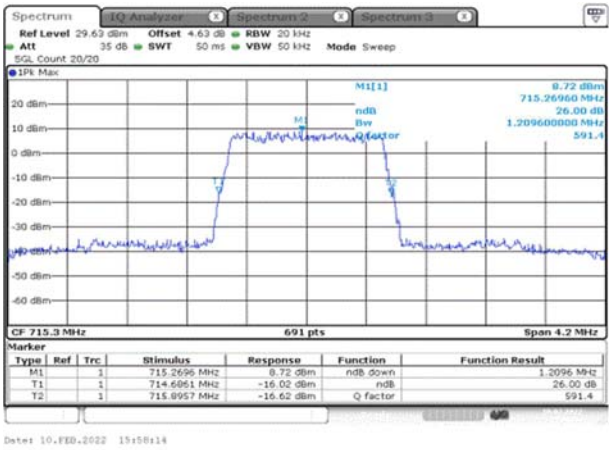

Fig.27

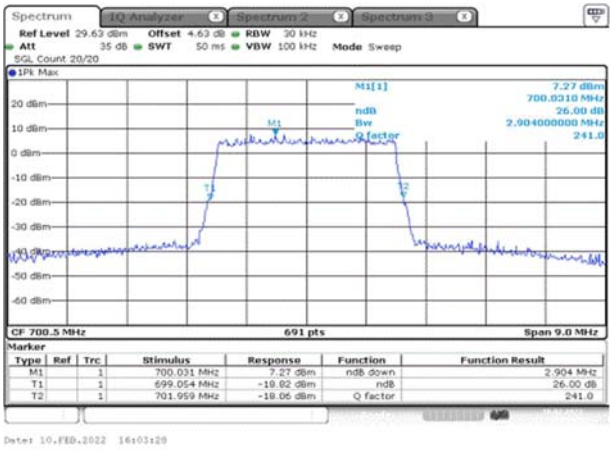

Fig.28

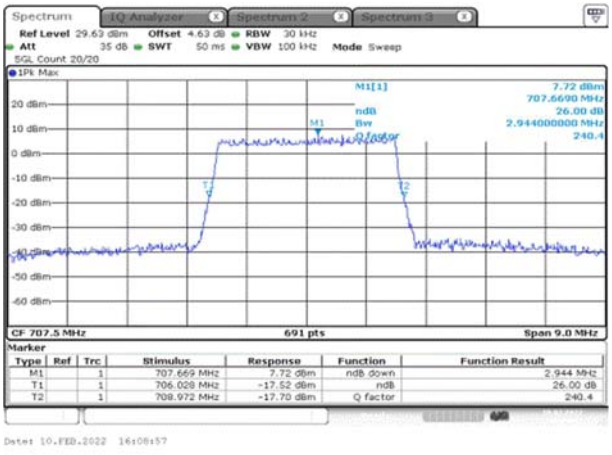

Fig.29

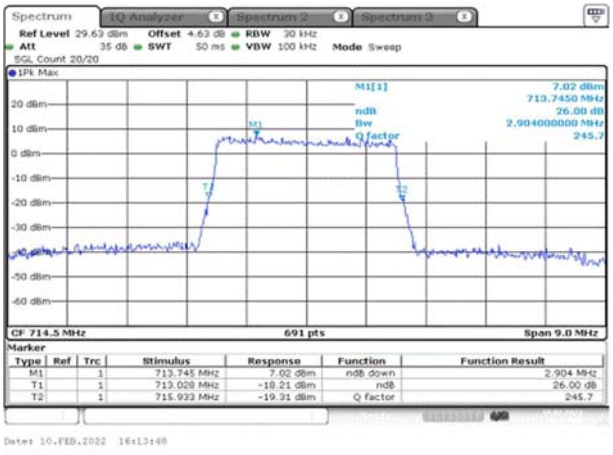

Fig.30

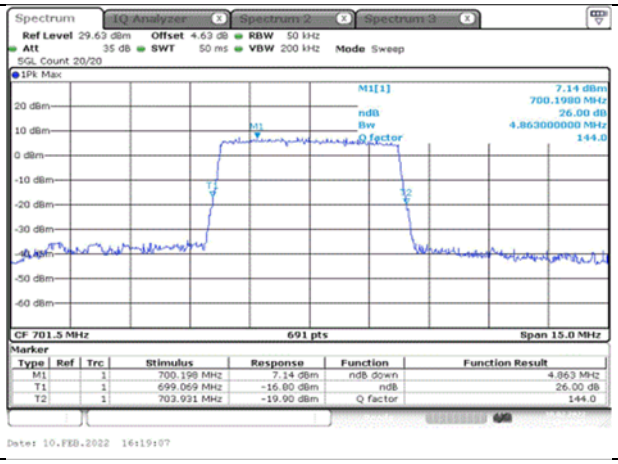

Fig.31

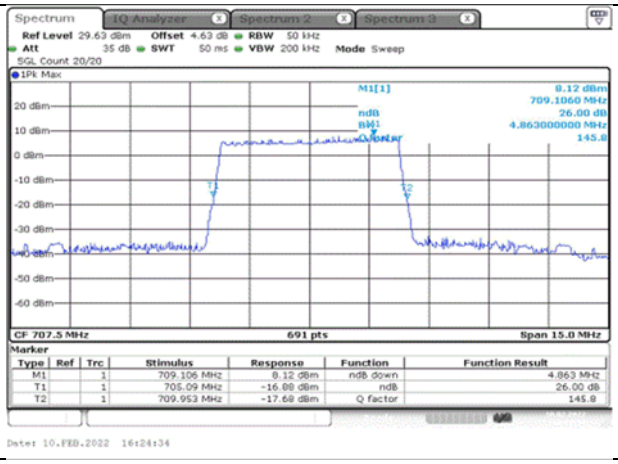

Fig.32

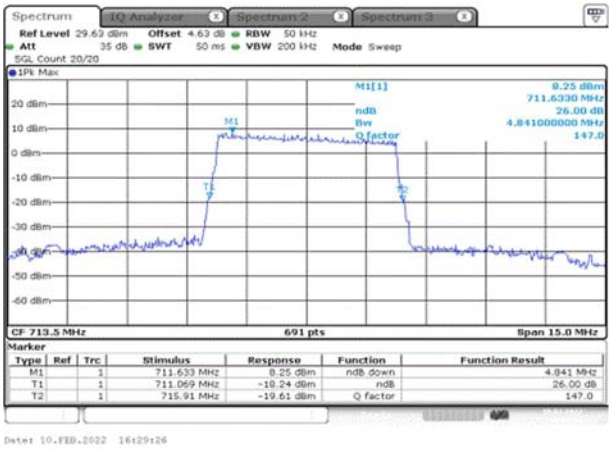

Fig.33

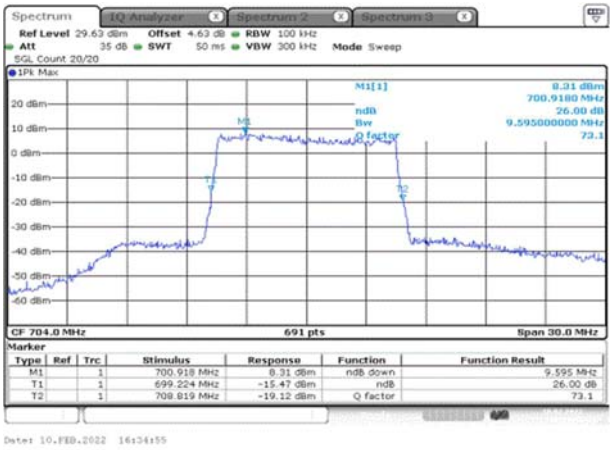

Fig.34

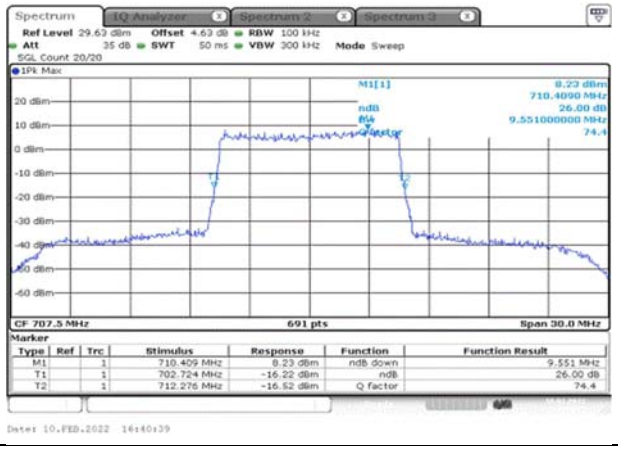

Fig.35

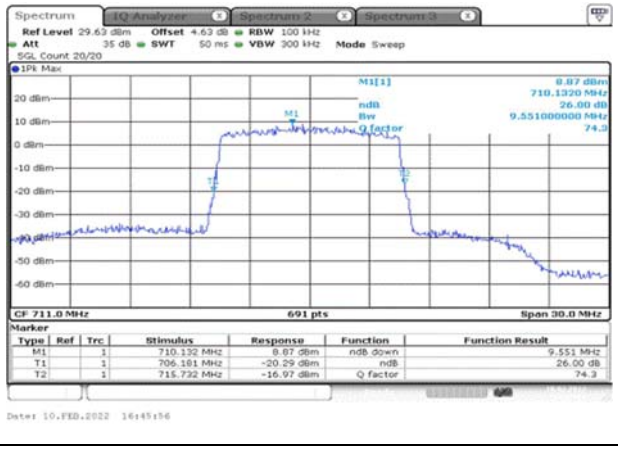

Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	699.7	23017	1.4	1	5	Fig.1	Fig.2	Fig.3
12	699.7	23017	1.4	6	0	Fig.4	Fig.5	Fig.6
12	707.5	23095	1.4	1	5	Fig.7	Fig.8	Fig.9
12	707.5	23095	1.4	6	0	Fig.10	Fig.11	Fig.12
12	715.3	23173	1.4	1	5	Fig.13	Fig.14	Fig.15
12	715.3	23173	1.4	6	0	Fig.16	Fig.17	Fig.18
12	700.5	23025	3	1	14	Fig.19	Fig.20	Fig.21
12	700.5	23025	3	15	0	Fig.22	Fig.23	Fig.24
12	707.5	23095	3	1	14	Fig.25	Fig.26	Fig.27
12	707.5	23095	3	15	0	Fig.28	Fig.29	Fig.30
12	714.5	23165	3	1	14	Fig.31	Fig.32	Fig.33
12	714.5	23165	3	15	0	Fig.34	Fig.35	Fig.36
12	701.5	23035	5	1	24	Fig.37	Fig.38	Fig.39
12	701.5	23035	5	25	0	Fig.40	Fig.41	Fig.42
12	707.5	23095	5	1	24	Fig.43	Fig.44	Fig.45
12	707.5	23095	5	25	0	Fig.46	Fig.47	Fig.48
12	713.5	23155	5	1	24	Fig.49	Fig.50	Fig.51
12	713.5	23155	5	25	0	Fig.52	Fig.53	Fig.54
12	704	23060	10	1	49	Fig.55	Fig.56	Fig.57
12	704	23060	10	50	0	Fig.58	Fig.59	Fig.60
12	707.5	23095	10	1	49	Fig.61	Fig.62	Fig.63
12	707.5	23095	10	50	0	Fig.64	Fig.65	Fig.66
12	711	23130	10	1	49	Fig.67	Fig.68	Fig.69
12	711	23130	10	50	0	Fig.70	Fig.71	Fig.72

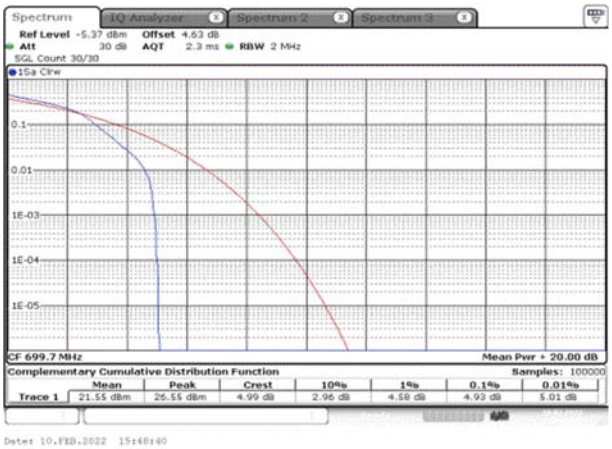

Fig.1

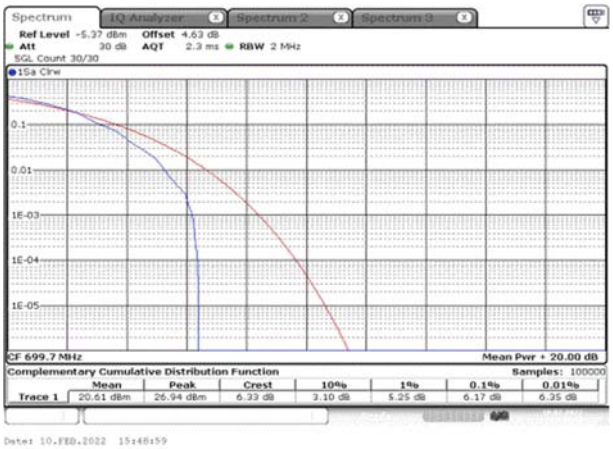

Fig.2

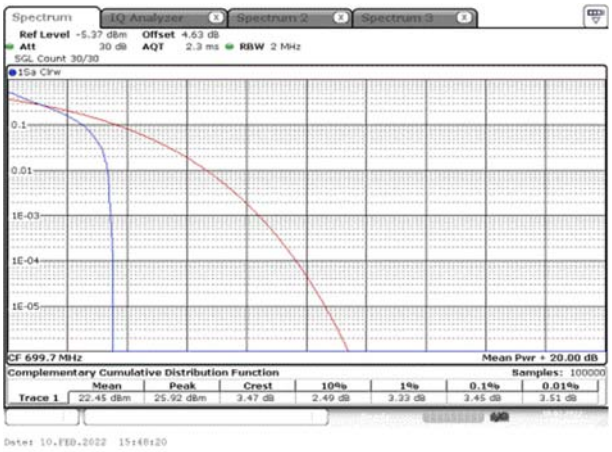

Fig.3

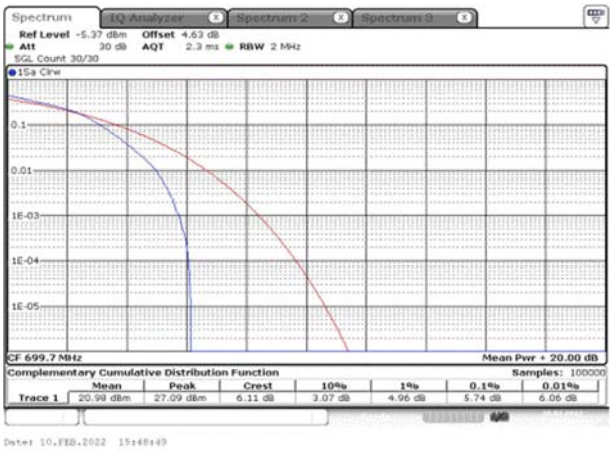

Fig.4

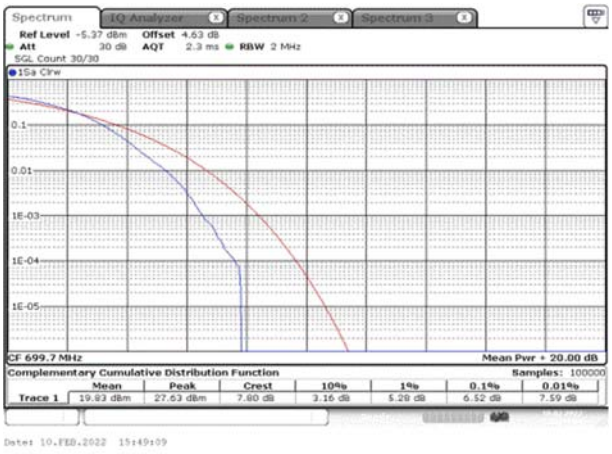

Fig.5

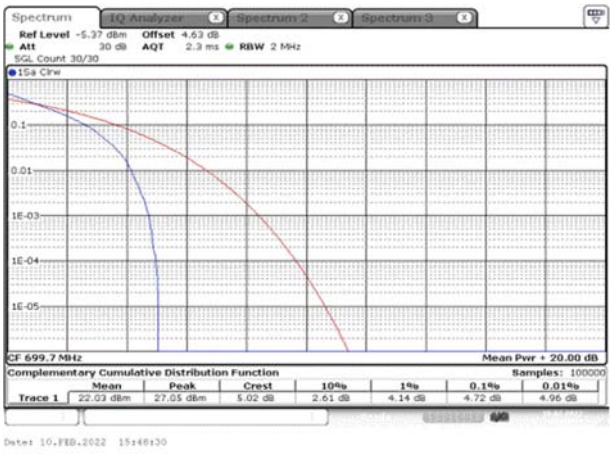

Fig.6

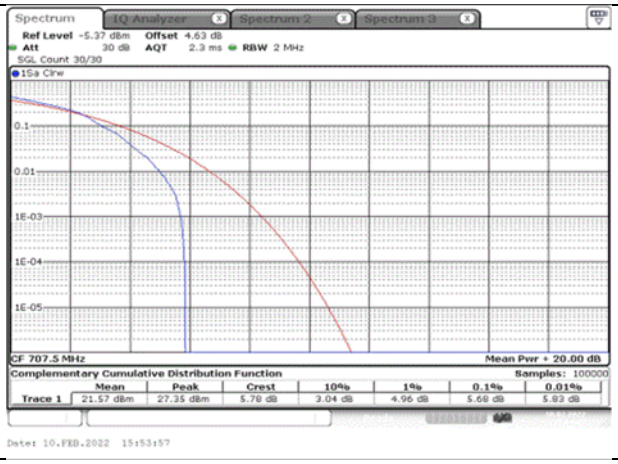

Fig.7

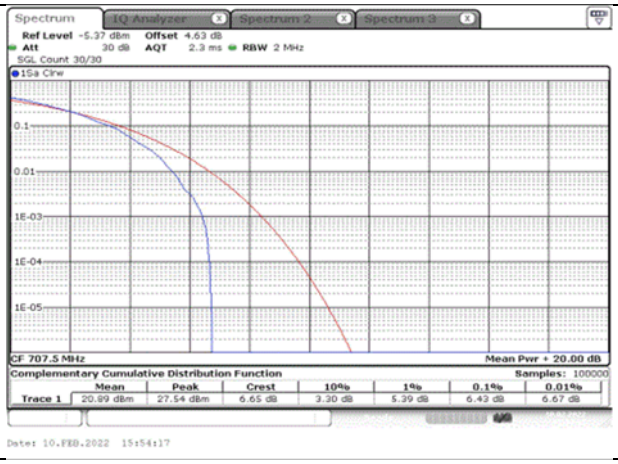

Fig.8

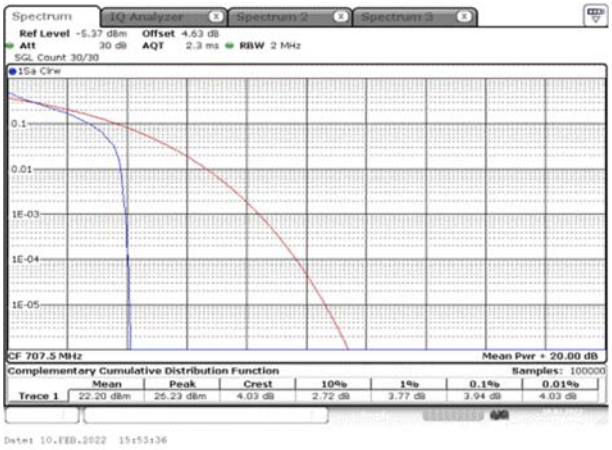

Fig.9

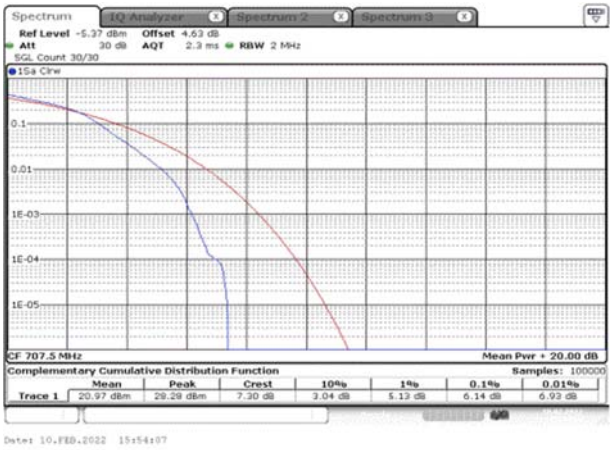

Fig.10

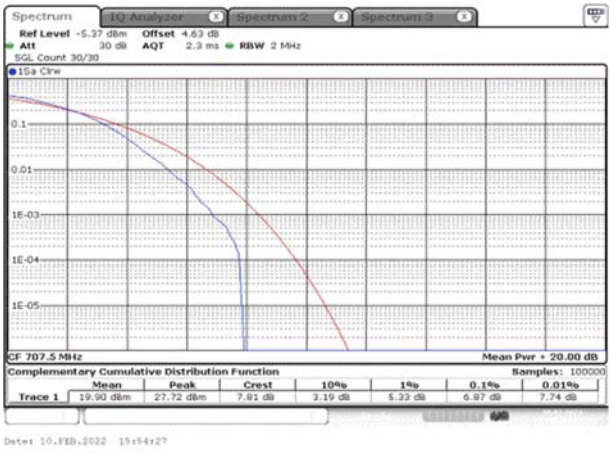

Fig.11

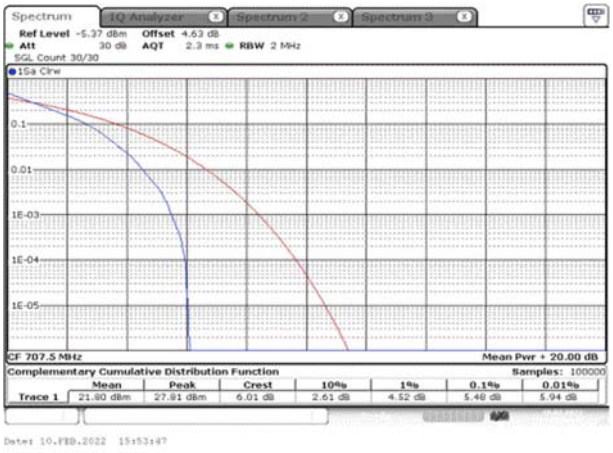

Fig.12

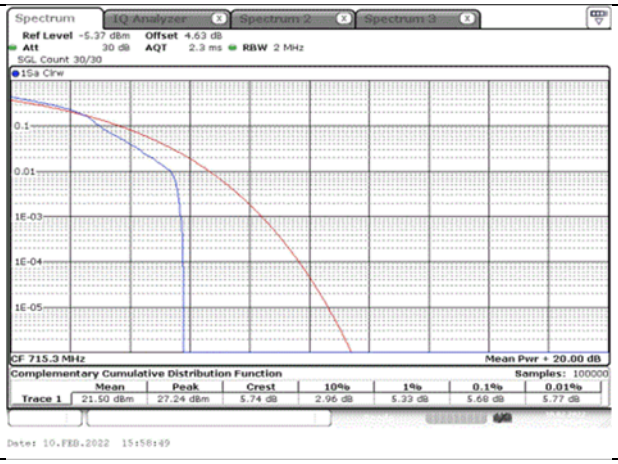

Fig.13

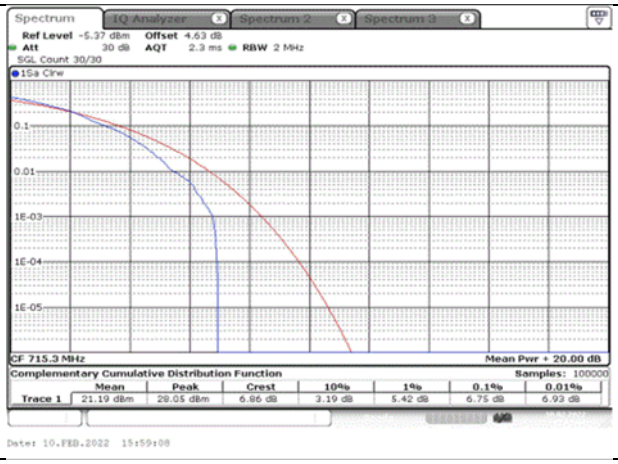

Fig.14

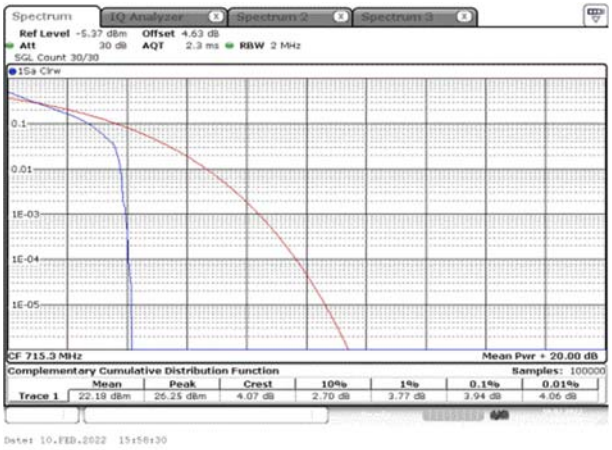

Fig.15

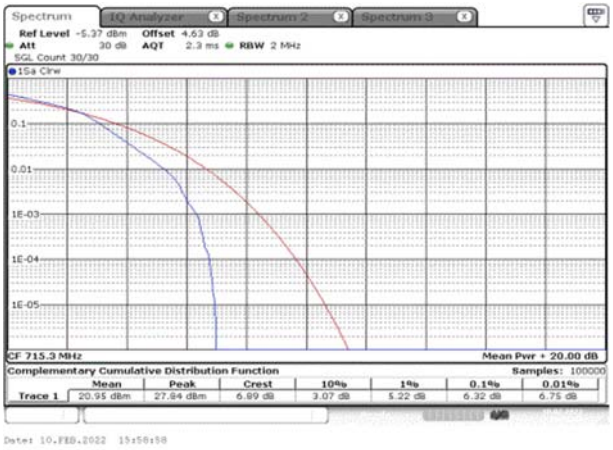

Fig.16

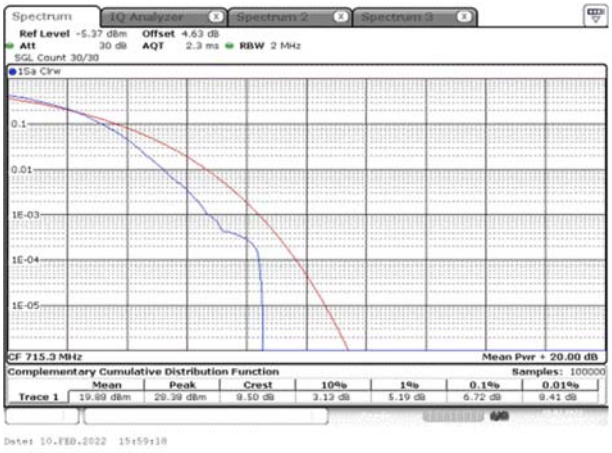

Fig.17

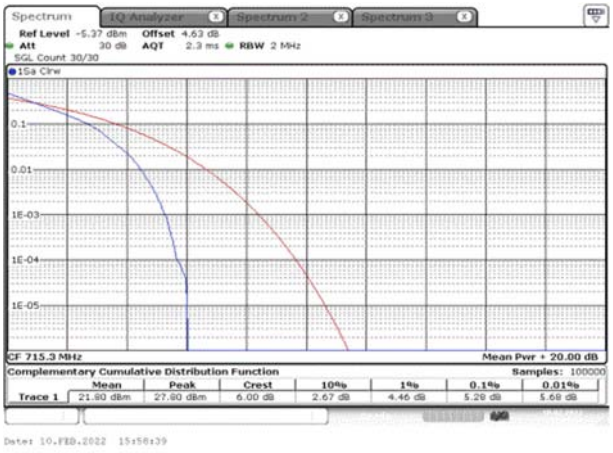

Fig.18