APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	23.88
				1	3	23.89
				1	5	23.88
				3	0	23.81
				3	1	23.77
				3	3	23.87
				6	0	22.81
	1880	18900		1	0	23.85
				1	3	23.84
				1	5	23.85
				3	0	23.78
				3	1	23.80
				3	3	23.78
				6	0	22.73
	1909.3	19193		1	0	23.92
				1	3	23.95
				1	5	23.97
				3	0	23.95
				3	1	24.03
				3	3	23.99
				6	0	22.98
16QAM	1850.7	18607		1	0	23.67
				1	3	23.66
				1	5	23.54
				3	0	22.82
				3	1	22.77
				3	3	22.79
				6	0	21.84
	1880	18900		1	0	23.27
				1	3	23.26
				1	5	23.25
				3	0	22.92
				3	1	22.89
				3	3	22.82
				6	0	21.89
	1909.3	19193		1	0	23.68
				1	3	23.62
				1	5	23.65
				3	0	23.08
				3	1	23.08
				3	3	23.12
				6	0	22.16

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	21.83
				1	3	21.84
				1	5	22.16
				3	0	22.13
				3	1	22.08
				3	3	22.01
				6	0	22.13
	1880	18900		1	0	21.88
				1	3	21.89
				1	5	21.89
				3	0	21.88
				3	1	21.88
				3	3	21.87
				6	0	21.87
	1909.3	19193		1	0	22.15
				1	3	22.15
				1	5	22.14
				3	0	22.17
				3	1	22.23
				3	3	22.23
				6	0	22.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	23.68
				1	8	23.70
				1	14	23.78
				8	0	22.82
				8	4	22.80
				8	7	22.79
				15	0	22.80
	1880	18900		1	0	23.85
				1	8	23.80
				1	14	23.79
				8	0	22.88
				8	4	22.82
				8	7	22.81
				15	0	22.87
	1908.5	19185		1	0	24.03
				1	8	24.01
				1	14	24.07
				8	0	22.95
				8	4	23.04
				8	7	23.04
				15	0	23.02
16QAM	1851.5	18615		1	0	23.15
				1	8	22.99
				1	14	22.92
				8	0	22.08
				8	4	22.20
				8	7	22.14
				15	0	21.89
	1880	18900		1	0	23.00
				1	8	23.08
				1	14	23.00
				8	0	22.02
				8	4	21.90
				8	7	21.94
				15	0	21.94
	1908.5	19185		1	0	22.96
				1	8	22.92
				1	14	22.90
				8	0	22.24
				8	4	22.27
				8	7	22.27
				15	0	22.11

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	21.91
				1	8	21.91
				1	14	21.88
				8	0	21.92
				8	4	21.88
				8	7	21.91
				15	0	21.90
	1880	18900		1	0	21.94
				1	8	21.94
				1	14	21.94
				8	0	21.94
				8	4	21.94
				8	7	21.94
				15	0	21.94
	1908.5	19185		1	0	22.12
				1	8	22.11
				1	14	22.11
				8	0	22.05
				8	4	22.13
				8	7	22.12
				15	0	22.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	23.70
				1	12	23.64
				1	24	23.59
				12	0	22.99
				12	7	22.70
				12	13	22.78
				25	0	22.80
	1880	18900		1	0	23.94
				1	12	24.06
				1	24	23.88
				12	0	22.80
				12	7	22.86
				12	13	22.86
				25	0	22.81
	1907.5	19175		1	0	24.01
				1	12	24.03
				1	24	24.07
				12	0	23.06
				12	7	23.08
				12	13	23.12
				25	0	23.10
16QAM	1852.5	18625		1	0	22.09
				1	12	22.11
				1	24	22.07
				12	0	21.91
				12	7	21.84
				12	13	21.93
				25	0	22.01
	1880	18900		1	0	22.87
				1	12	22.82
				1	24	22.83
				12	0	21.87
				12	7	21.80
				12	13	21.76
				25	0	21.90
	1907.5	19175		1	0	22.77
				1	12	22.71
				1	24	22.74
				12	0	21.94
				12	7	22.00
				12	13	22.00
				25	0	21.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	22.01
				1	12	22.01
				1	24	22.01
				12	0	22.07
				12	7	22.01
				12	13	22.01
				25	0	22.01
	1880	18900		1	0	21.90
				1	12	21.90
				1	24	21.91
				12	0	21.91
				12	7	21.91
				12	13	21.92
				25	0	21.92
	1907.5	19175		1	0	21.95
				1	12	21.95
				1	24	21.96
				12	0	21.96
				12	7	21.96
				12	13	21.95
				25	0	21.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	23.54
				1	25	23.69
				1	49	23.74
				25	0	22.82
				25	12	22.86
				25	25	22.85
				50	0	22.77
	1880	18900		1	0	23.83
				1	25	23.87
				1	49	23.86
				25	0	22.85
				25	12	22.80
				25	25	22.80
				50	0	22.83
	1905	19150		1	0	23.98
				1	25	24.16
				1	49	24.06
				25	0	23.07
				25	12	23.11
				25	25	23.11
				50	0	23.05
16QAM	1855	18650		1	0	23.25
				1	25	23.27
				1	49	23.27
				25	0	21.99
				25	12	21.83
				25	25	21.83
				50	0	21.89
	1880	18900		1	0	23.54
				1	25	23.69
				1	49	23.61
				25	0	21.96
				25	12	21.96
				25	25	21.92
				50	0	21.95
	1905	19150		1	0	22.55
				1	25	22.63
				1	49	22.62
				25	0	22.10
				25	12	22.21
				25	25	22.25
				50	0	22.12

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	21.89
				1	25	21.88
				1	49	21.89
				25	0	21.89
				25	12	21.89
				25	25	21.89
				50	0	21.88
	1880	18900		1	0	21.95
				1	25	21.95
				1	49	22.05
				25	0	22.05
				25	12	22.01
				25	25	22.08
				50	0	22.12
	1905	19150		1	0	22.12
				1	25	22.12
				1	49	22.12
				25	0	22.06
				25	12	22.06
				25	25	22.06
				50	0	22.07

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	23.64
				1	37	23.78
				1	74	23.80
				36	0	22.82
				36	29	22.79
				36	30	22.79
				75	0	22.84
	1880	18900		1	0	23.73
				1	37	23.73
				1	74	23.79
				36	0	22.76
				36	29	22.72
				36	30	22.71
				75	0	22.84
	1902.5	19125		1	0	23.74
				1	37	24.04
				1	74	24.01
				36	0	22.83
				36	29	22.96
				36	30	22.97
				75	0	22.97
16QAM	1857.5	18675		1	0	23.30
				1	37	23.33
				1	74	23.33
				36	0	21.83
				36	29	22.02
				36	30	21.89
				75	0	21.82
	1880	18900		1	0	23.52
				1	37	23.67
				1	74	23.66
				36	0	21.85
				36	29	21.98
				36	30	21.92
				75	0	21.99
	1902.5	19125		1	0	23.25
				1	37	23.58
				1	74	23.48
				36	0	21.95
				36	29	22.10
				36	30	22.11
				75	0	22.03

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	21.95
				1	37	21.95
				1	74	21.86
				36	0	21.91
				36	29	21.91
				36	30	21.95
				75	0	21.86
	1880	18900		1	0	22.08
				1	37	21.90
				1	74	22.00
				36	0	22.00
				36	29	22.00
				36	30	22.00
				75	0	22.00
	1902.5	19125		1	0	22.14
				1	37	22.03
				1	74	22.04
				36	0	22.03
				36	29	22.03
				36	30	22.05
				75	0	22.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	23.83
				1	49	23.90
				1	99	23.99
				50	0	22.85
				50	24	22.83
				50	50	22.98
				100	0	22.77
	1880	18900		1	0	23.98
				1	49	24.09
				1	99	24.06
				50	0	22.89
				50	24	22.92
				50	50	22.84
				100	0	22.90
	1900	19100		1	0	23.77
				1	49	24.06
				1	99	24.11
				50	0	22.90
				50	24	23.03
				50	50	23.02
				100	0	22.96
16QAM	1860	18700		1	0	22.85
				1	49	23.13
				1	99	23.14
				50	0	21.83
				50	24	22.04
				50	50	22.04
				100	0	21.94
	1880	18900		1	0	22.74
				1	49	22.93
				1	99	22.92
				50	0	21.91
				50	24	22.03
				50	50	22.03
				100	0	21.87
	1900	19100		1	0	23.47
				1	49	23.79
				1	99	23.75
				50	0	21.95
				50	24	22.15
				50	50	22.16
				100	0	22.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	22.00
				1	49	21.87
				1	99	21.81
				50	0	21.87
				50	24	21.94
				50	50	21.81
				100	0	21.80
	1880	18900		1	0	22.03
				1	49	21.78
				1	99	21.96
				50	0	21.93
				50	24	21.96
				50	50	21.96
				100	0	21.96
	1900	19100		1	0	22.10
				1	49	22.10
				1	99	22.10
				50	0	22.10
				50	24	22.10
				50	50	22.10
				100	0	22.10

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.082	Fig.1	1.088	Fig.2	1.088	Fig.3
	1880	18900		6	0	1.082	Fig.4	1.088	Fig.5	1.094	Fig.6
	1909.3	19193		6	0	1.088	Fig.7	1.088	Fig.8	1.094	Fig.9
	1851.5	18615	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	1880	18900		15	0	2.696	Fig.13	2.683	Fig.14	2.683	Fig.15
	1908.5	19185		15	0	2.683	Fig.16	2.696	Fig.17	2.683	Fig.18
	1852.5	18625	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	1880	18900		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	1907.5	19175		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1855	18650	10	50	0	8.987	Fig.28	8.944	Fig.29	8.944	Fig.30
	1880	18900		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	1905	19150		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36
	1857.5	18675	15	75	0	13.480	Fig.37	13.415	Fig.38	13.415	Fig.39
	1880	18900		75	0	13.415	Fig.40	13.415	Fig.41	13.415	Fig.42
	1902.5	19125		75	0	13.415	Fig.43	13.415	Fig.44	13.415	Fig.45
	1860	18700	20	100	0	17.974	Fig.46	17.974	Fig.47	17.974	Fig.48
	1880	18900		100	0	17.887	Fig.49	17.887	Fig.50	17.887	Fig.51
	1900	19100		100	0	17.887	Fig.52	17.887	Fig.53	17.887	Fig.54

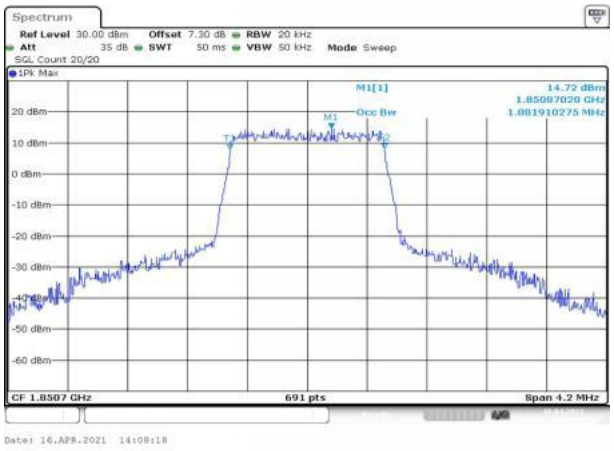


Fig.1

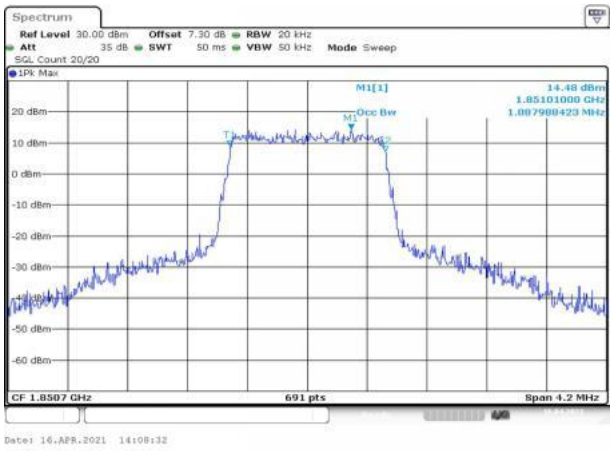


Fig.2

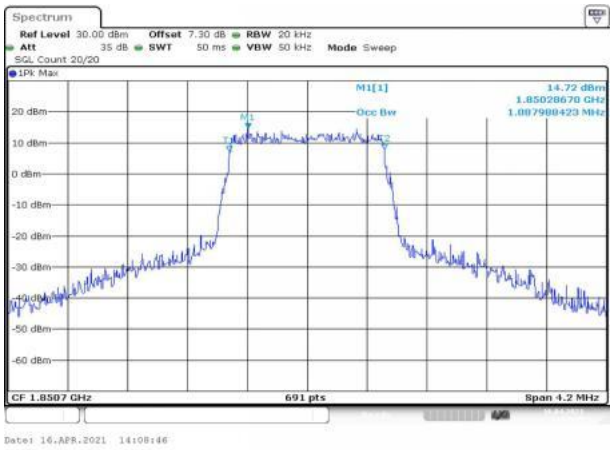


Fig.3

Fig.4

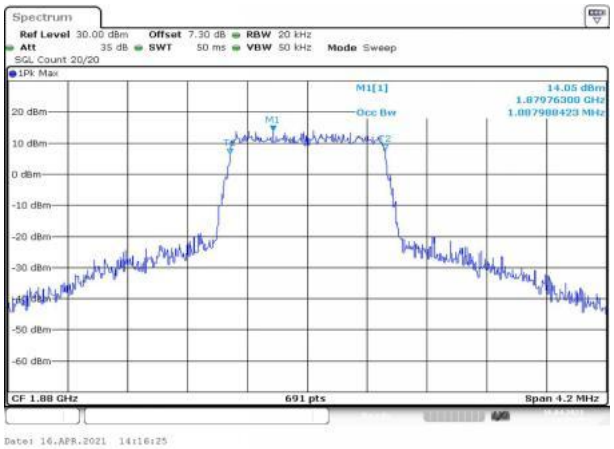


Fig.5

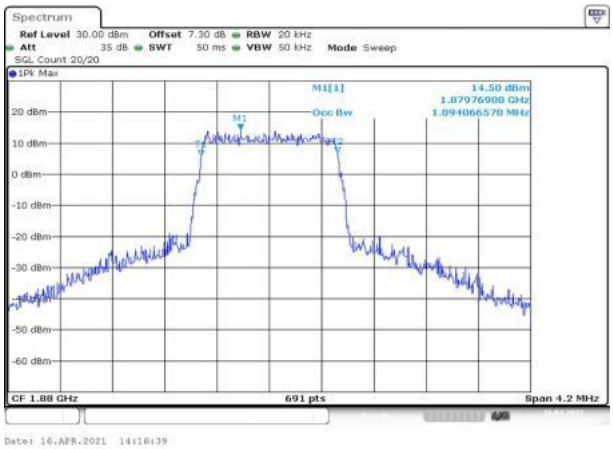


Fig.6

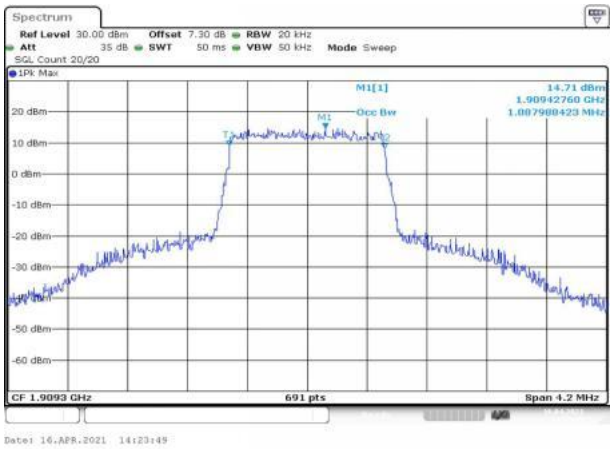


Fig.7

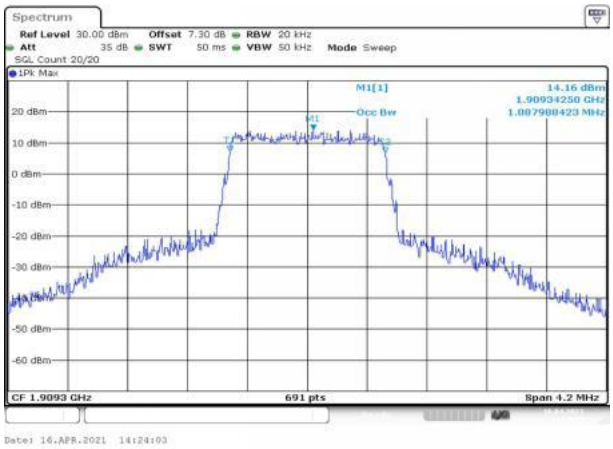


Fig.8

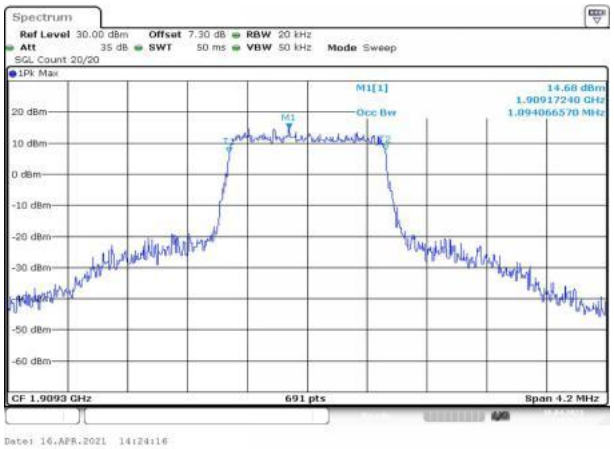


Fig.9

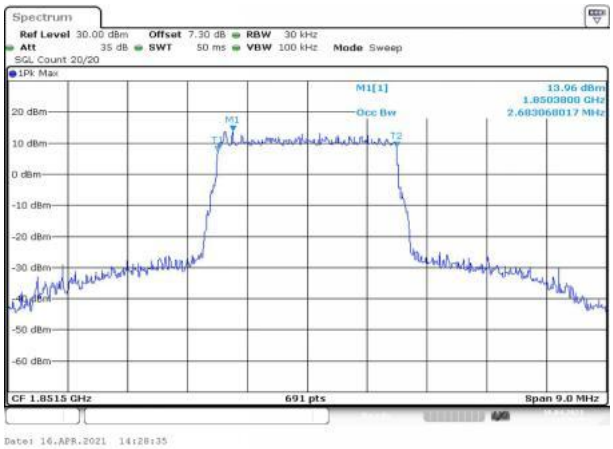


Fig.10

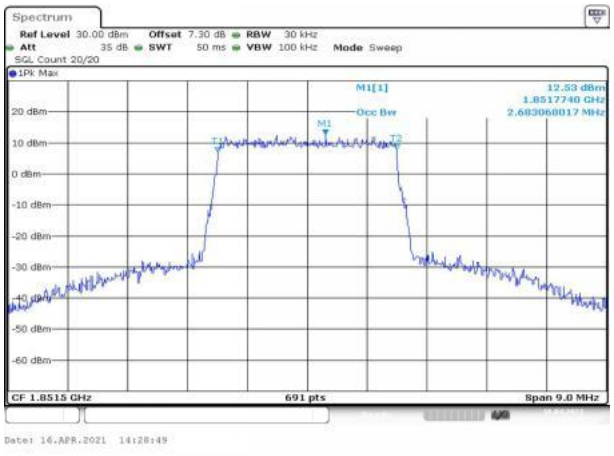


Fig.11

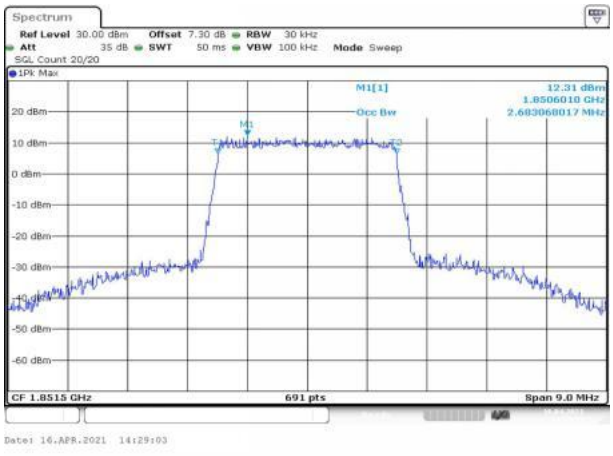


Fig.12

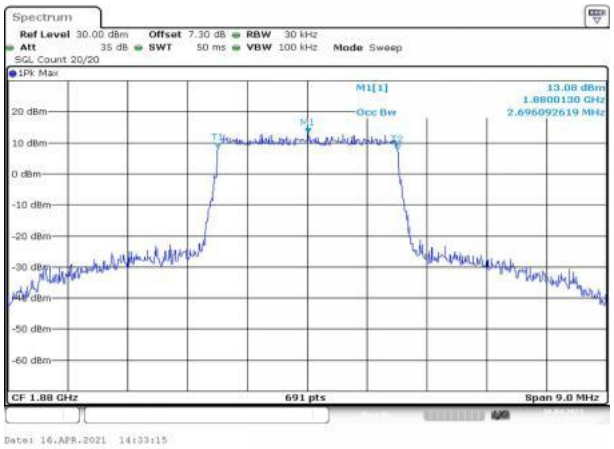


Fig.13

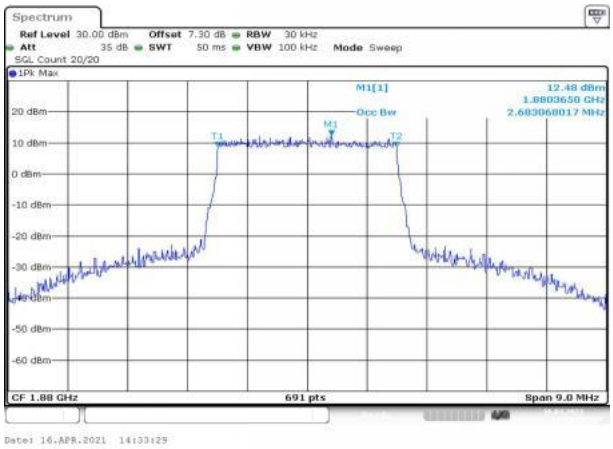


Fig.14

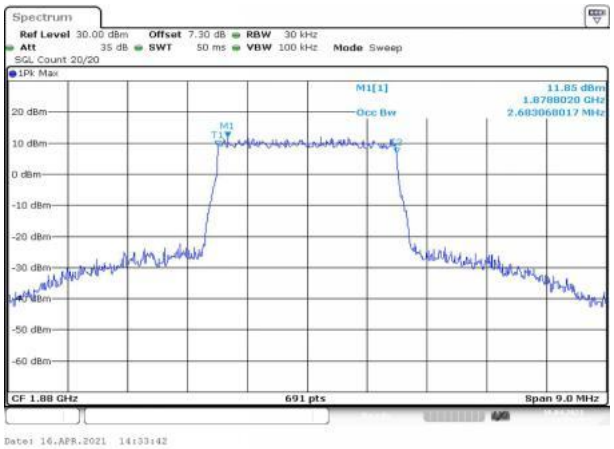


Fig.15

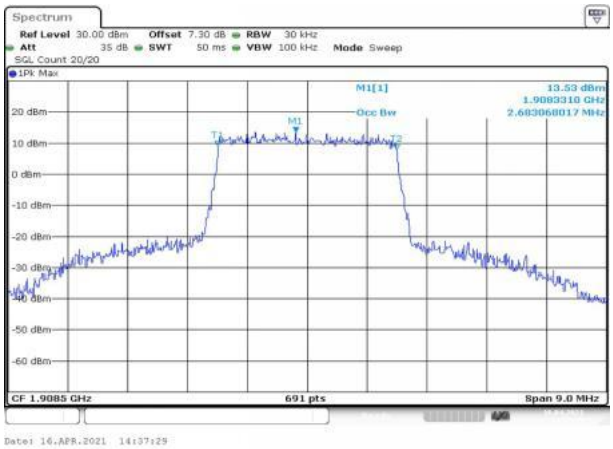


Fig.16

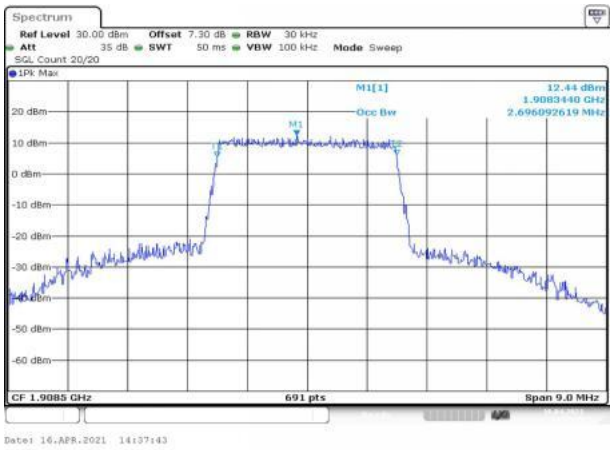
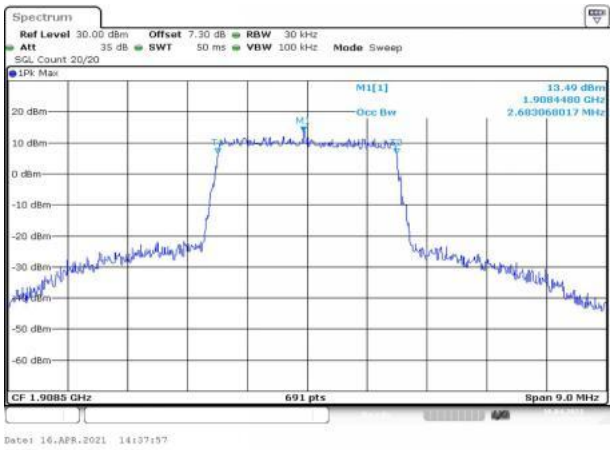


Fig.17



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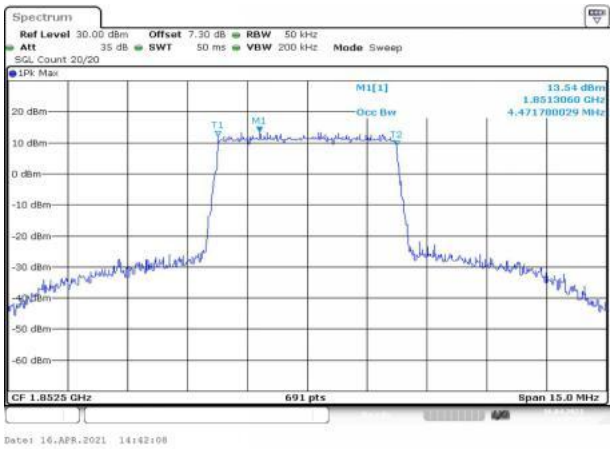

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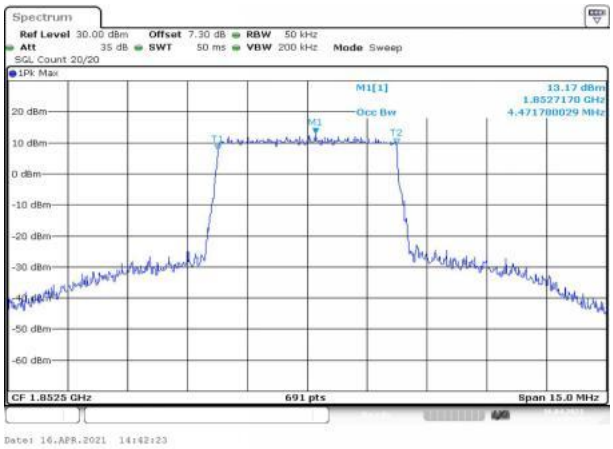

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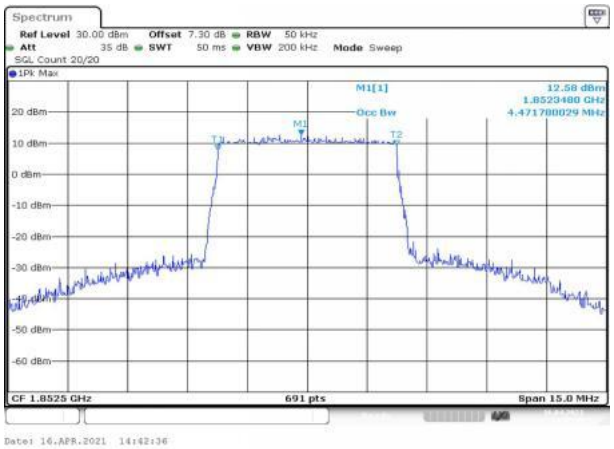

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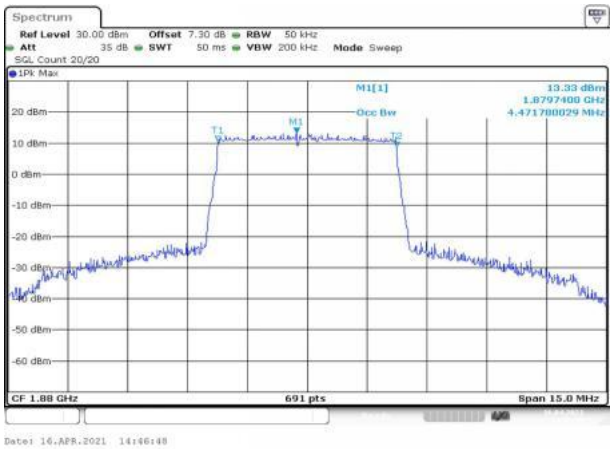

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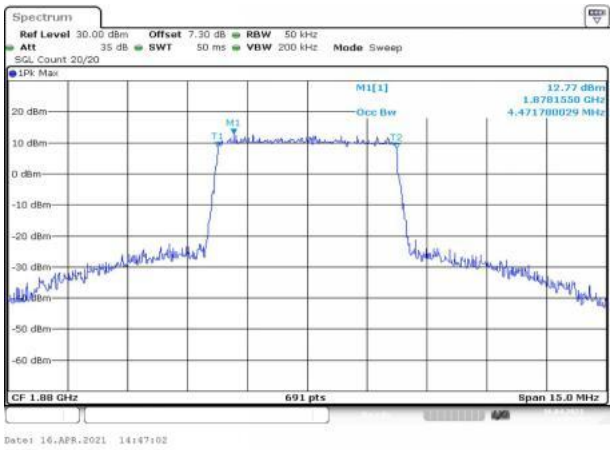

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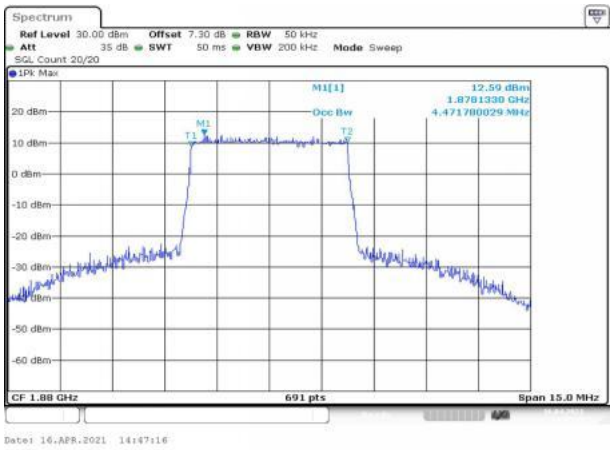

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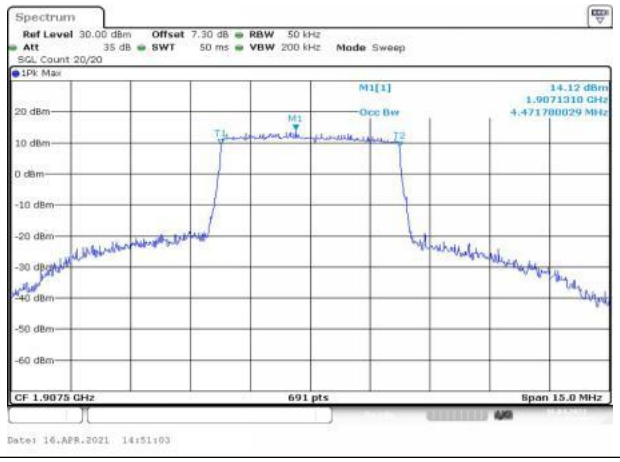

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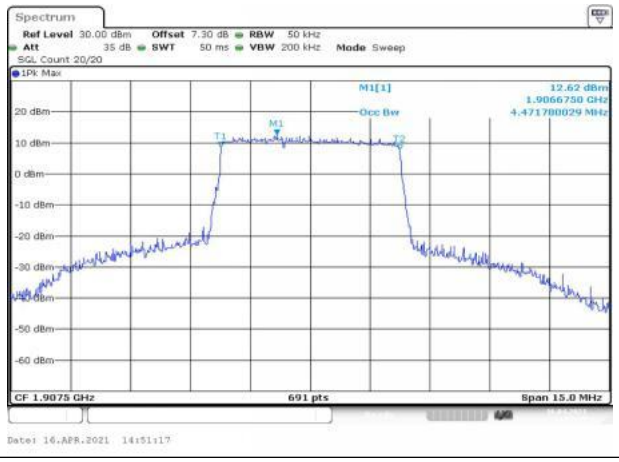

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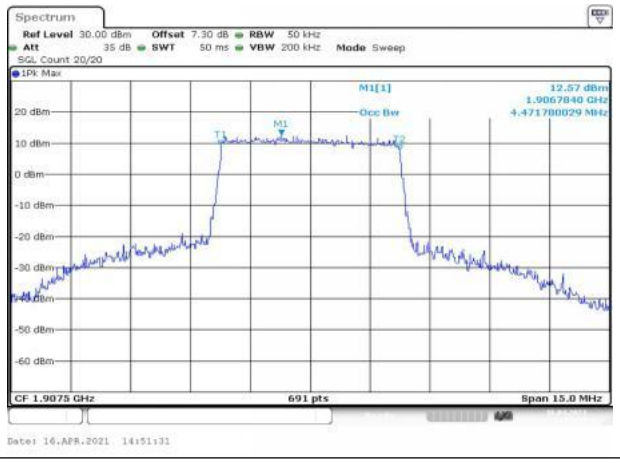

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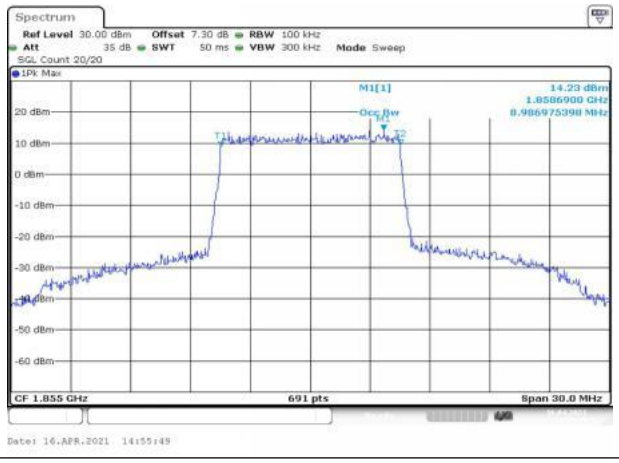

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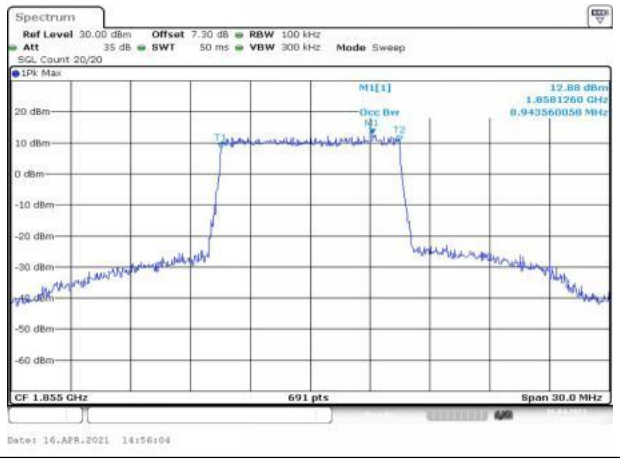

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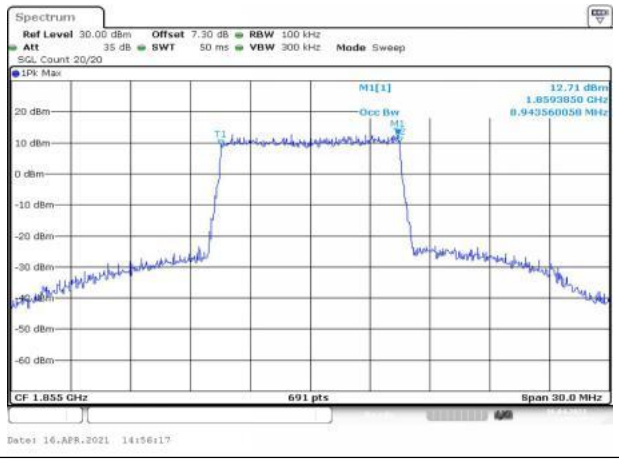

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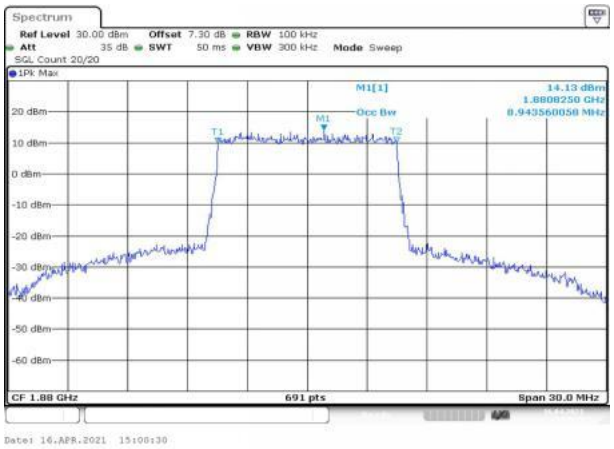

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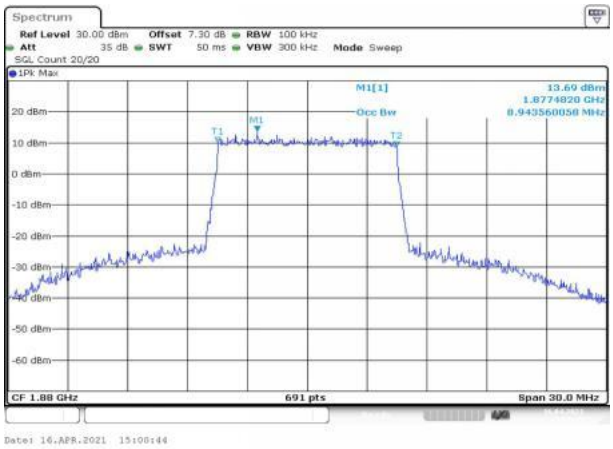

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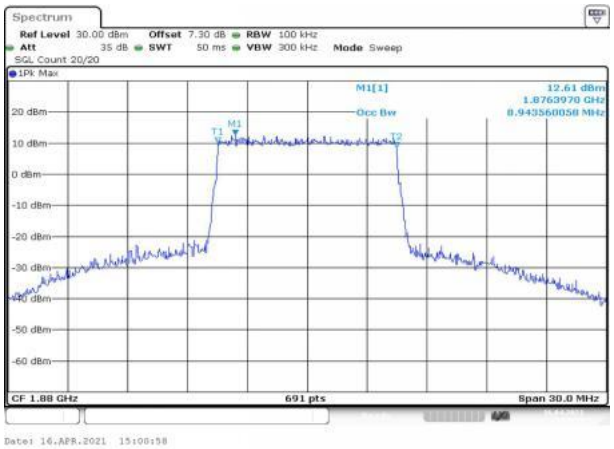

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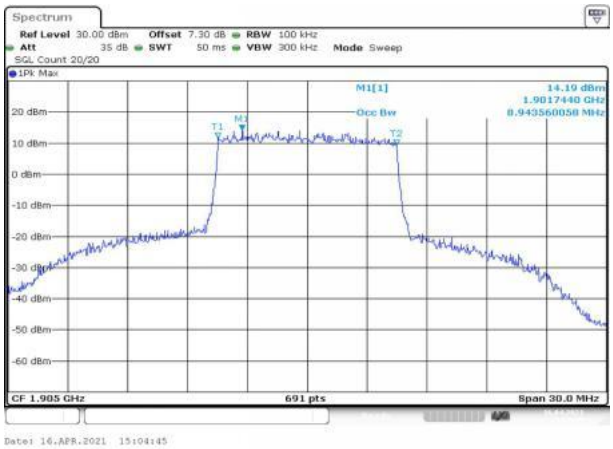

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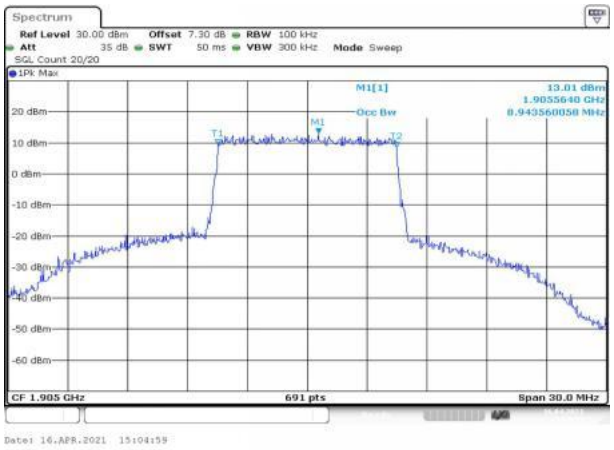

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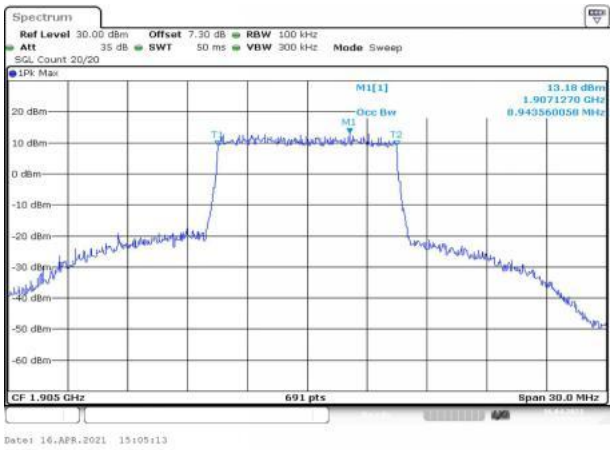

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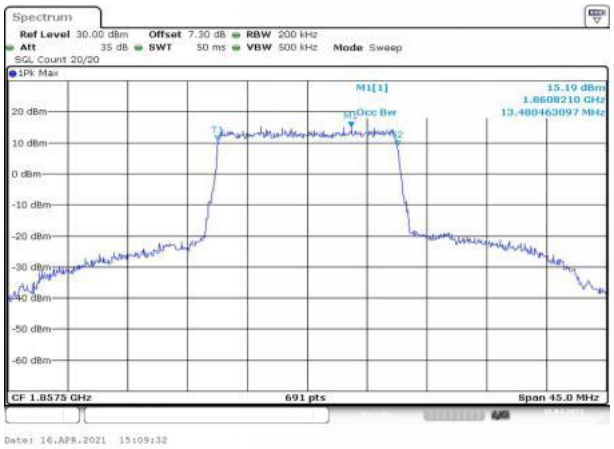

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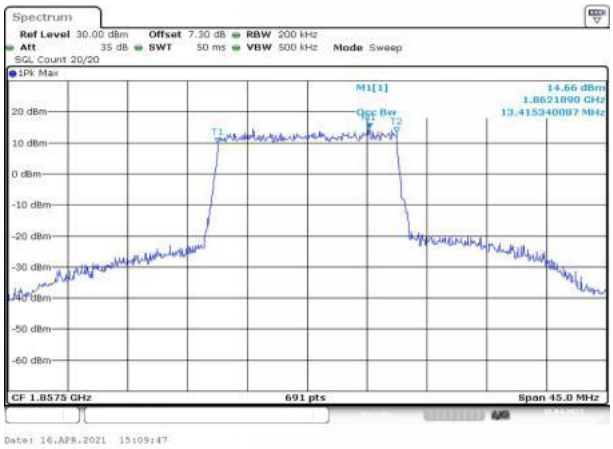

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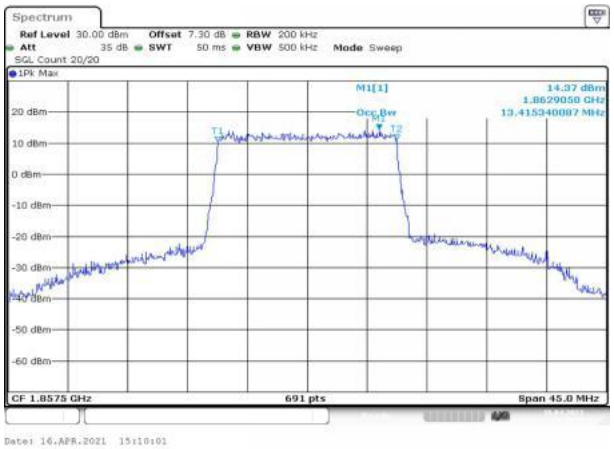
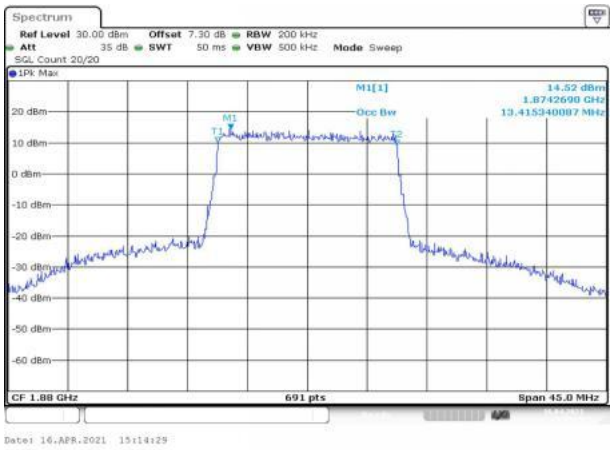


Fig.39

Fig.40



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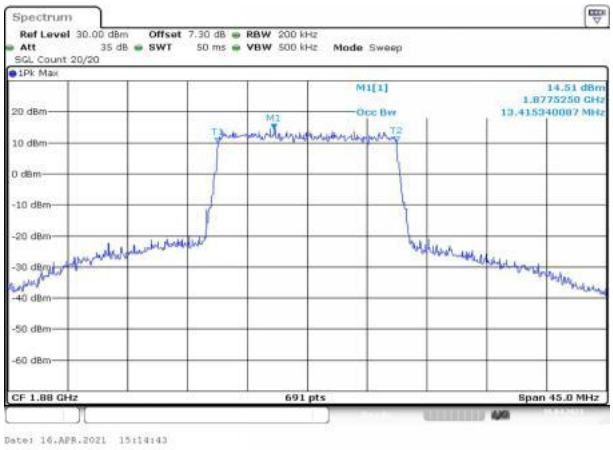

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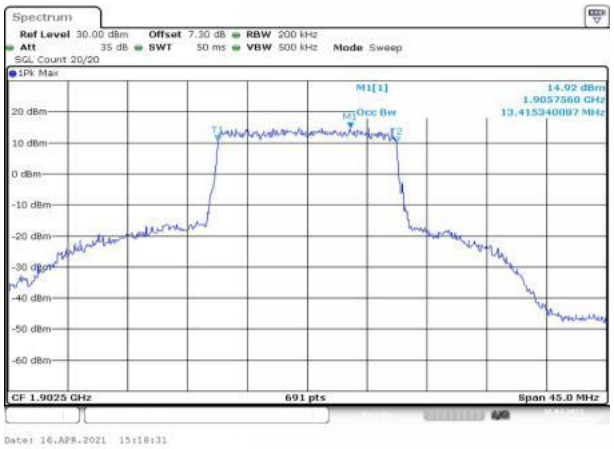

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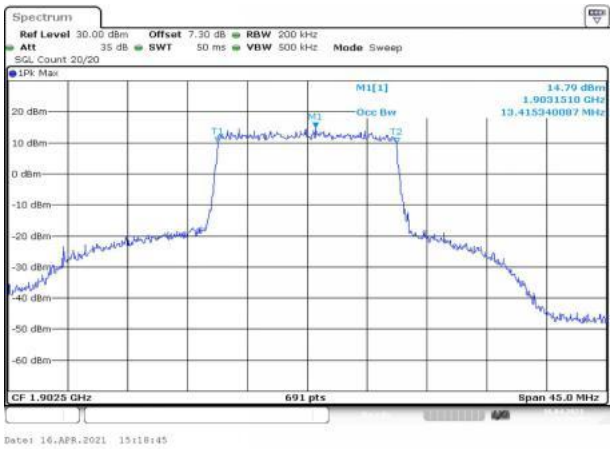

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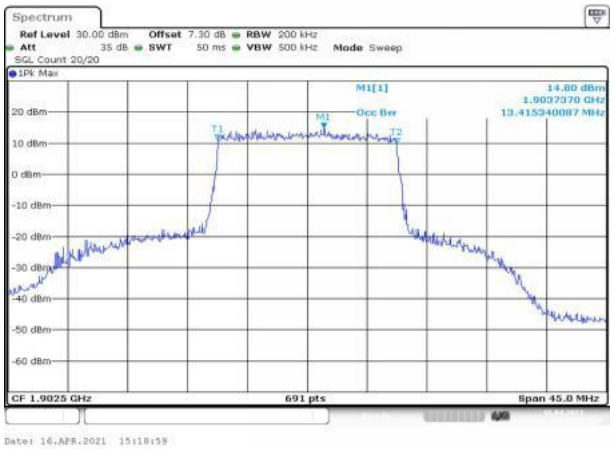

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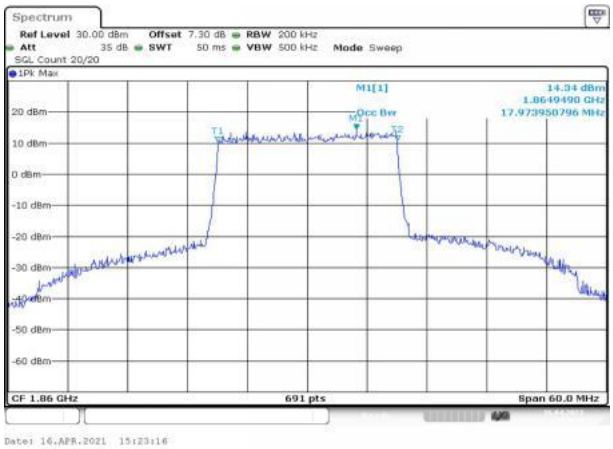

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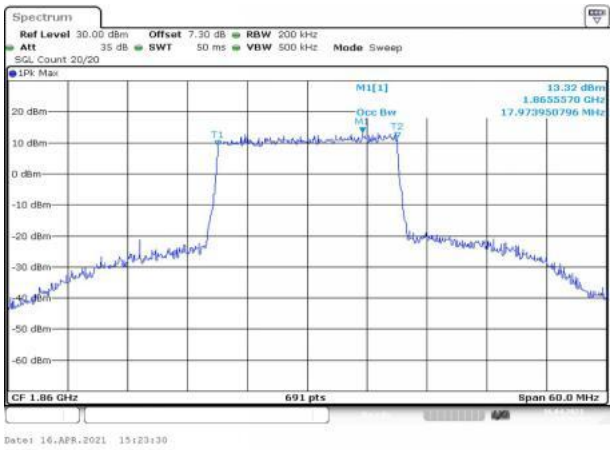

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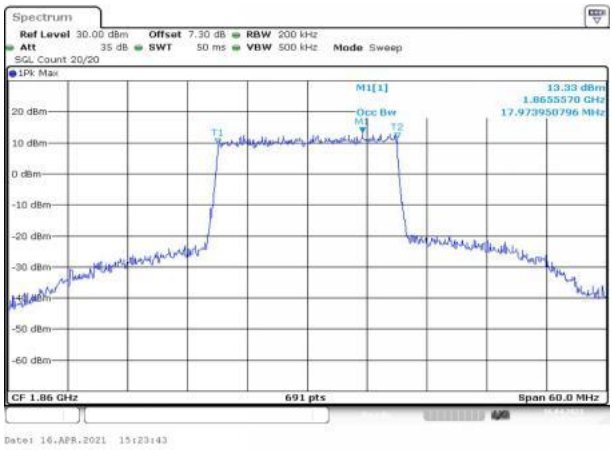

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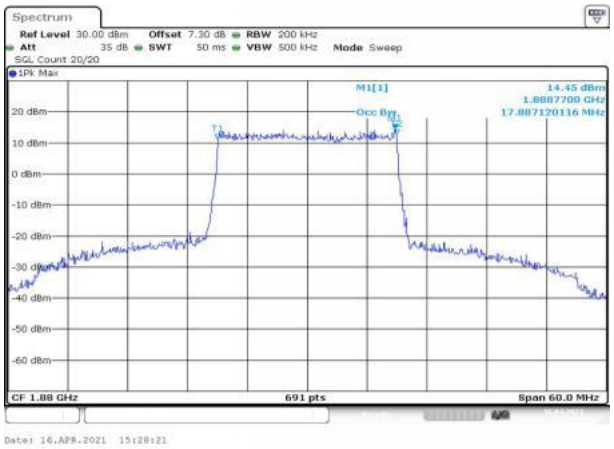

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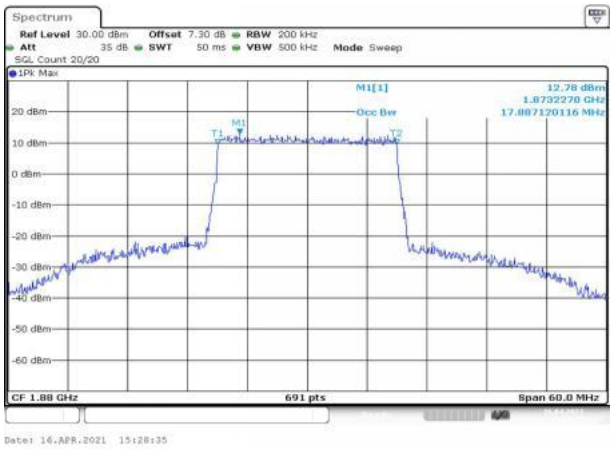
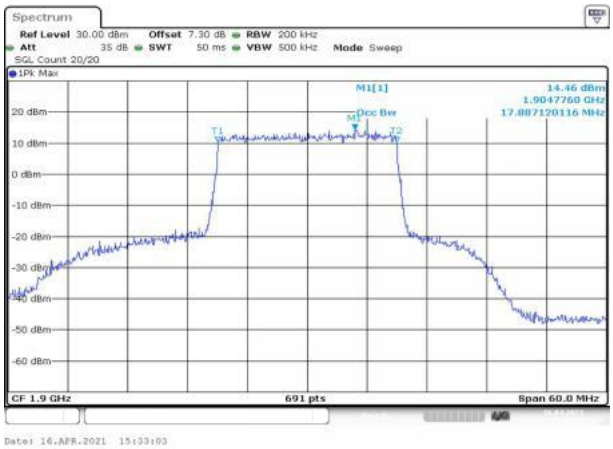


Fig.50

Fig.51



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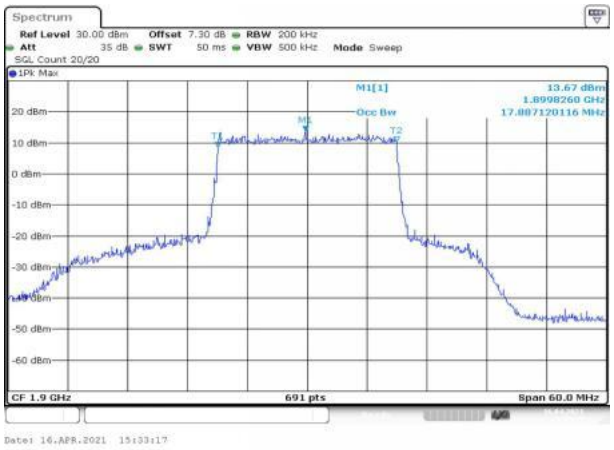

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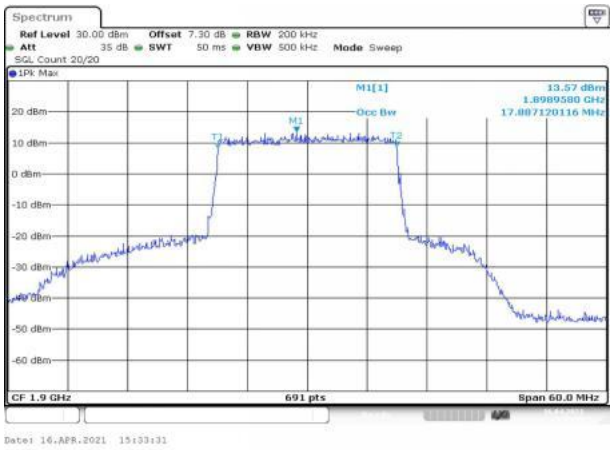


Fig.54

3 Emission Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.234	Fig.1	1.234	Fig.2	1.228	Fig.3
	1880	18900		6	0	1.228	Fig.4	1.234	Fig.5	1.234	Fig.6
	1909.3	19193		6	0	1.228	Fig.7	1.228	Fig.8	1.222	Fig.9
	1851.5	18615	3	15	0	2.970	Fig.10	2.970	Fig.11	2.957	Fig.12
	1880	18900		15	0	2.957	Fig.13	2.983	Fig.14	2.970	Fig.15
	1908.5	19185		15	0	3.009	Fig.16	2.970	Fig.17	2.983	Fig.18
	1852.5	18625	5	25	0	4.884	Fig.19	4.863	Fig.20	4.797	Fig.21
	1880	18900		25	0	4.906	Fig.22	4.884	Fig.23	4.928	Fig.24
	1907.5	19175		25	0	4.863	Fig.25	4.906	Fig.26	4.884	Fig.27
	1855	18650	10	50	0	9.682	Fig.28	9.638	Fig.29	9.682	Fig.30
	1880	18900		50	0	9.725	Fig.31	9.682	Fig.32	9.768	Fig.33
	1905	19150		50	0	9.682	Fig.34	9.768	Fig.35	9.682	Fig.36
	1857.5	18675	15	75	0	14.718	Fig.37	14.783	Fig.38	14.783	Fig.39
	1880	18900		75	0	14.718	Fig.40	14.653	Fig.41	14.718	Fig.42
	1902.5	19125		75	0	14.783	Fig.43	14.588	Fig.44	14.588	Fig.45
	1860	18700	20	100	0	19.276	Fig.46	19.363	Fig.47	19.363	Fig.48
	1880	18900		100	0	19.363	Fig.49	19.450	Fig.50	19.450	Fig.51
	1900	19100		100	0	19.363	Fig.52	19.276	Fig.53	19.363	Fig.54

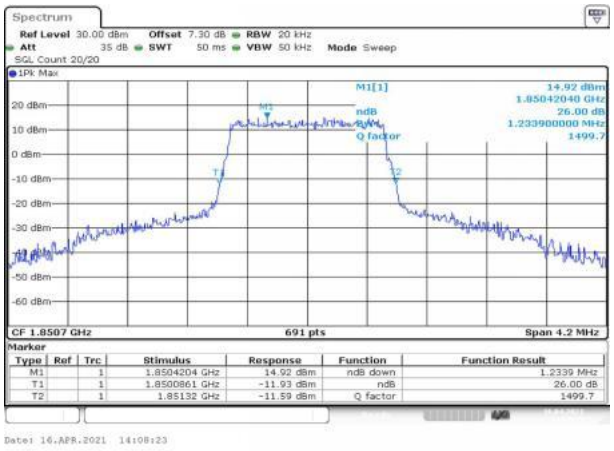


Fig.1

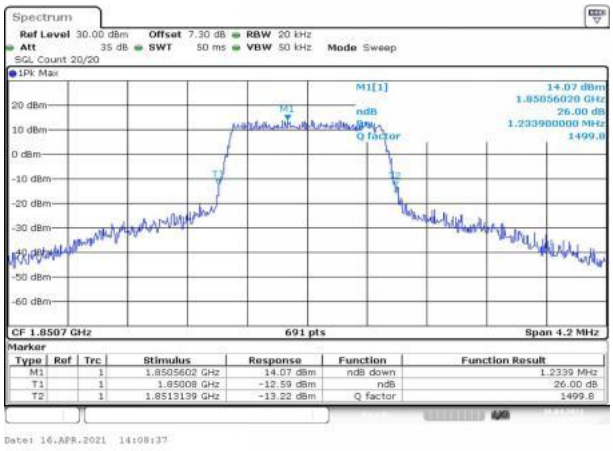
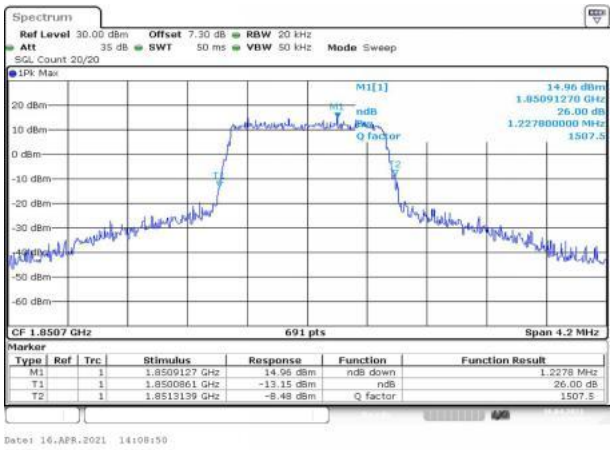


Fig.2



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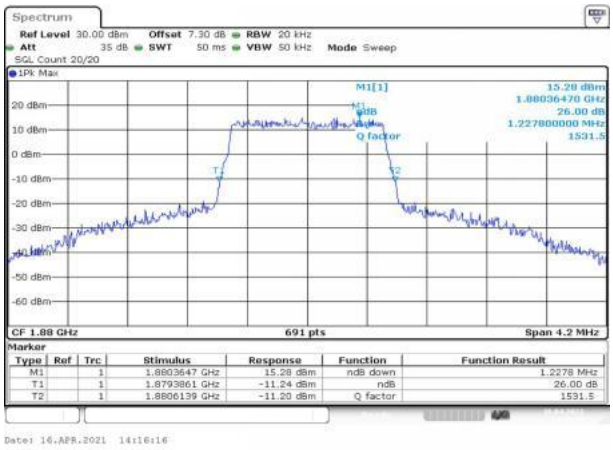
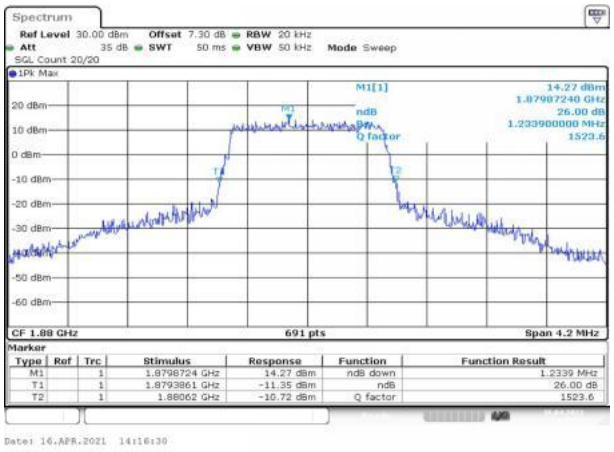


Fig.4



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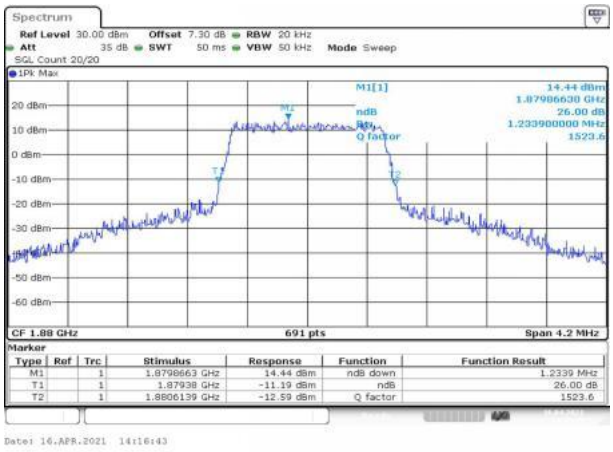


Fig.6

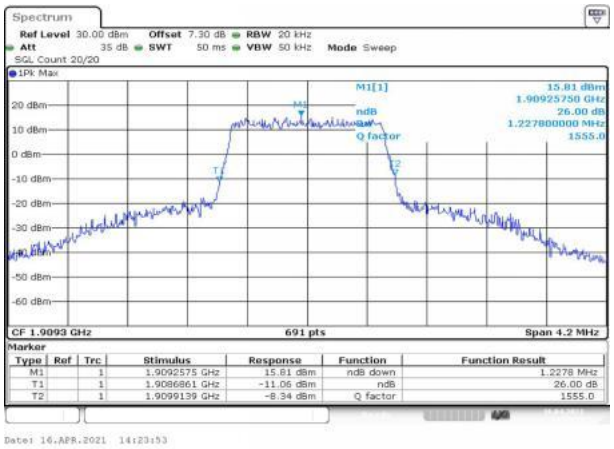


Fig.7

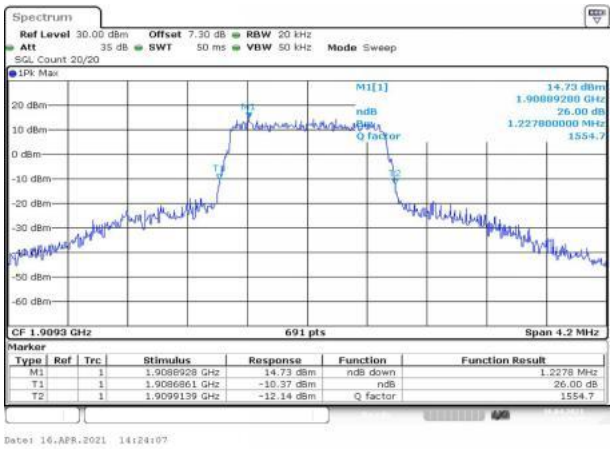
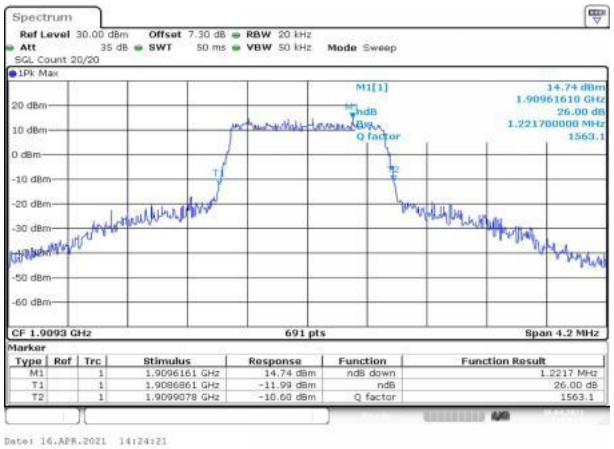


Fig.8



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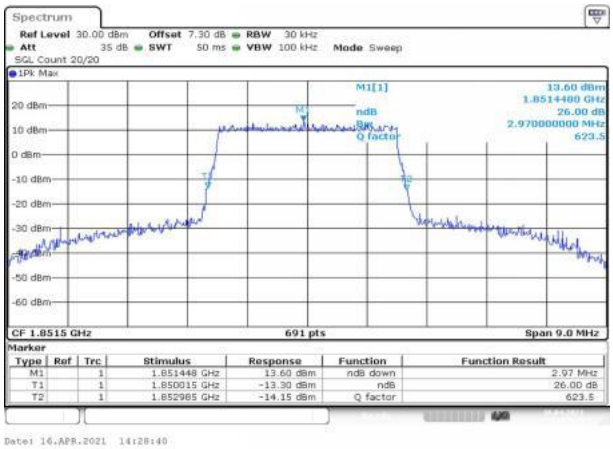

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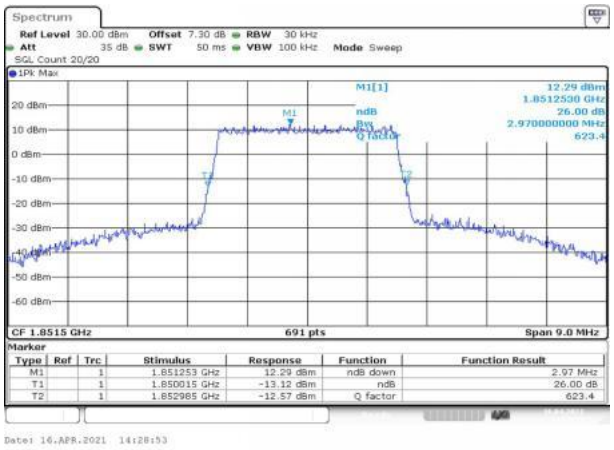

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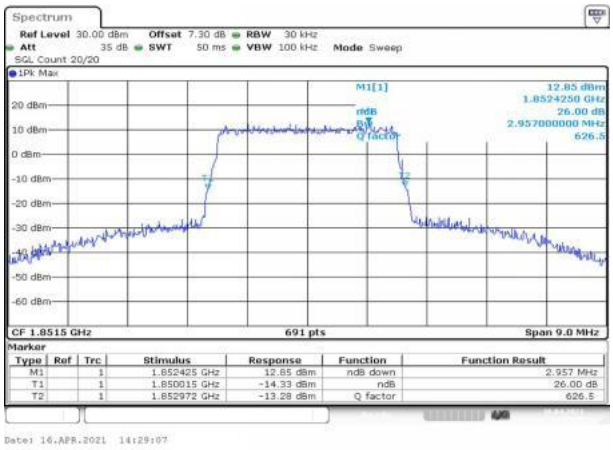


Fig.12

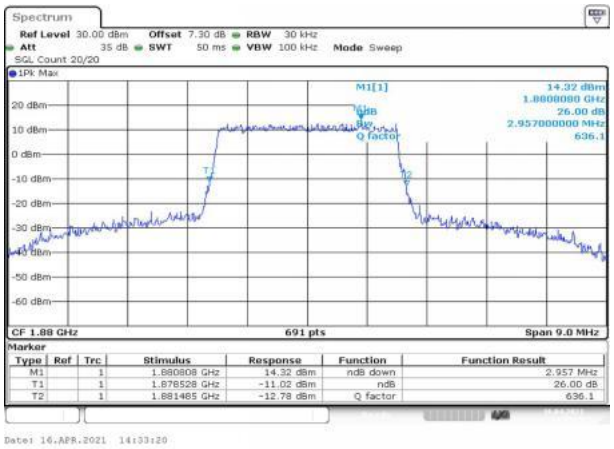


Fig.13

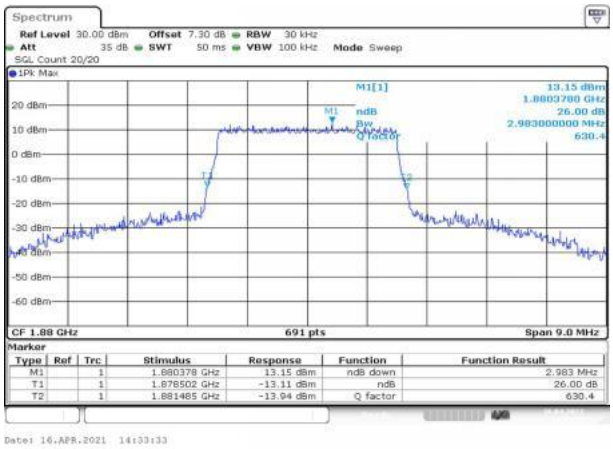
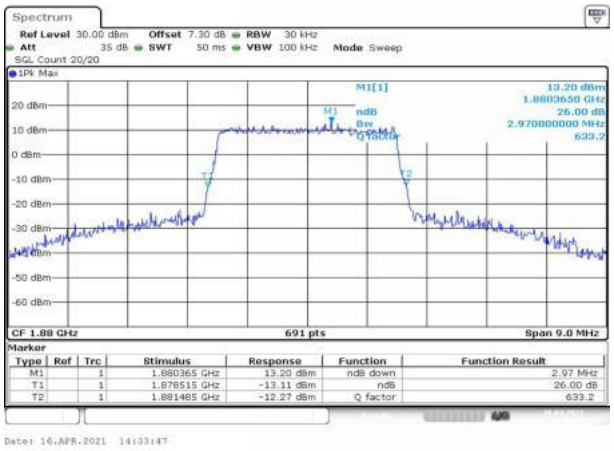


Fig.14



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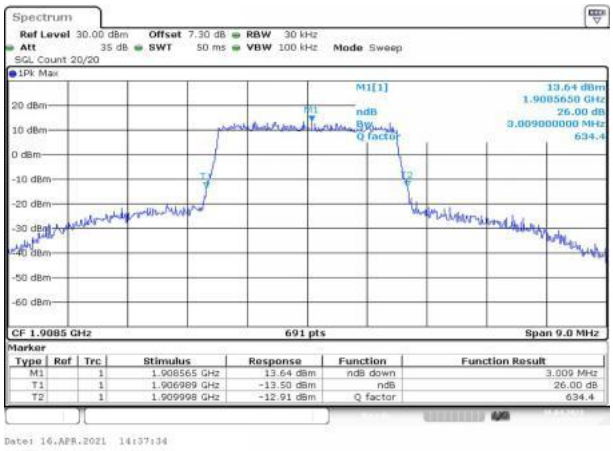

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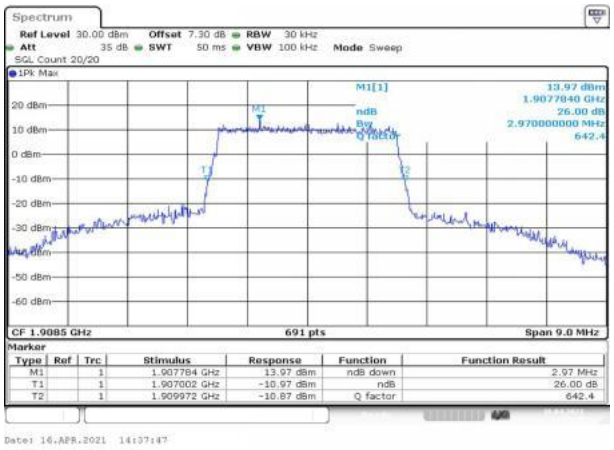

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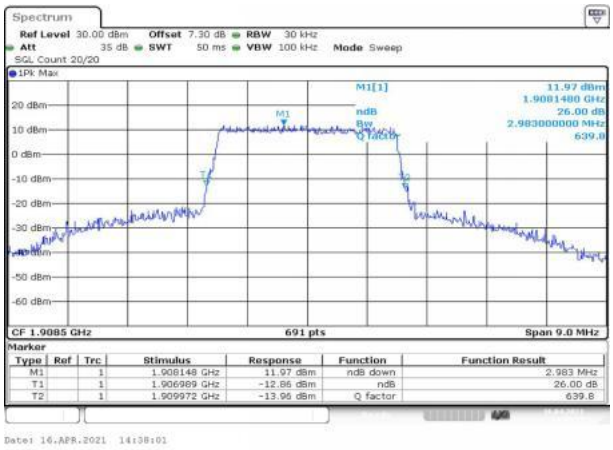

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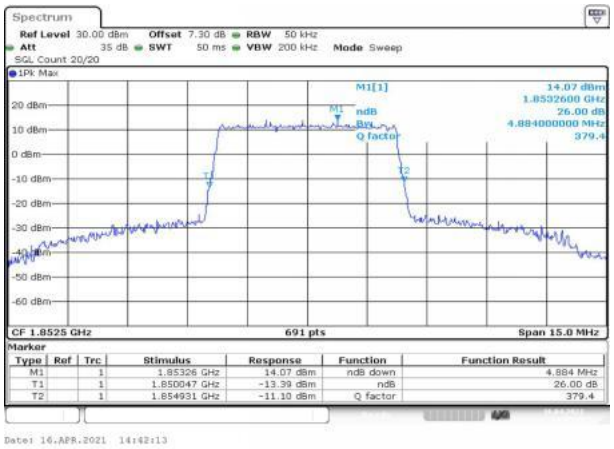

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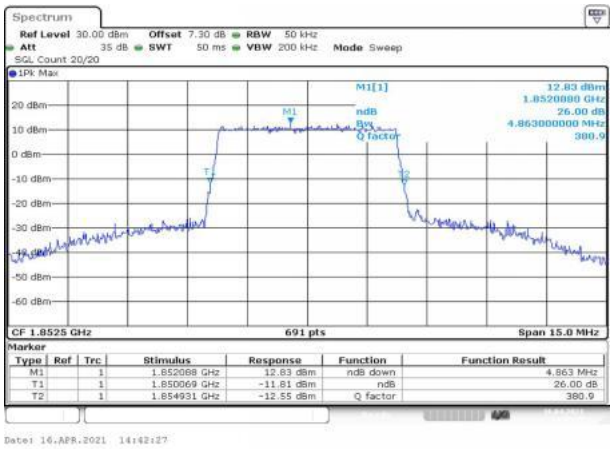

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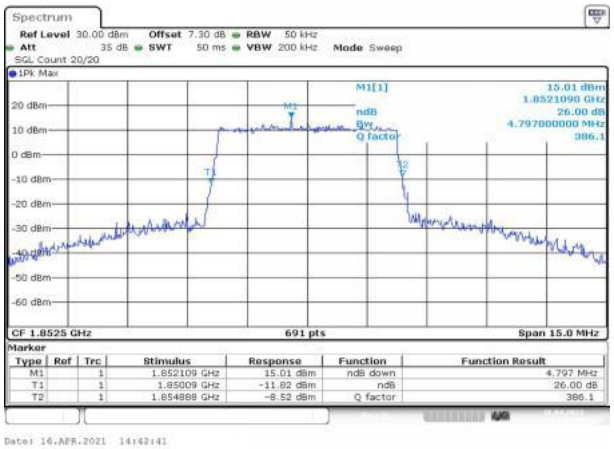

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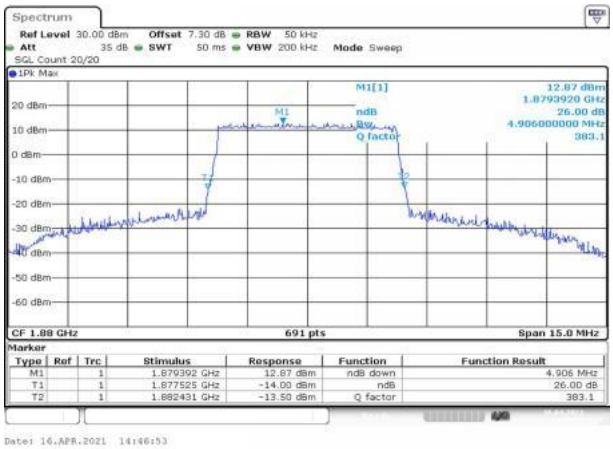

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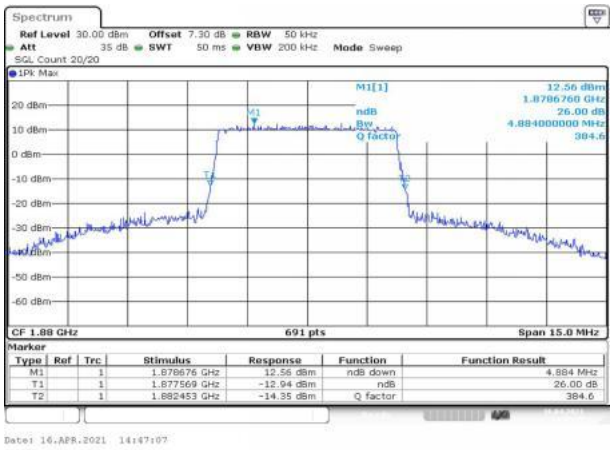

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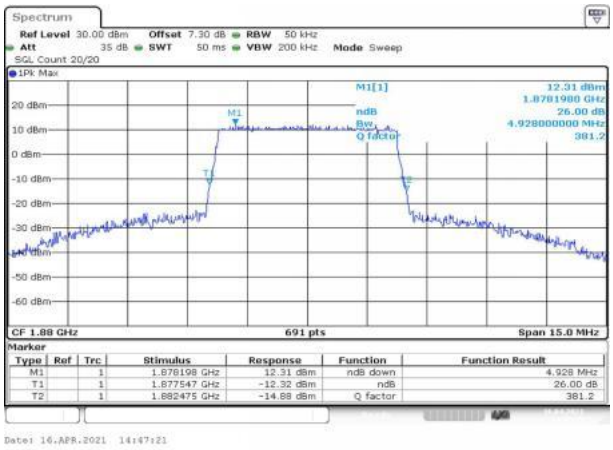

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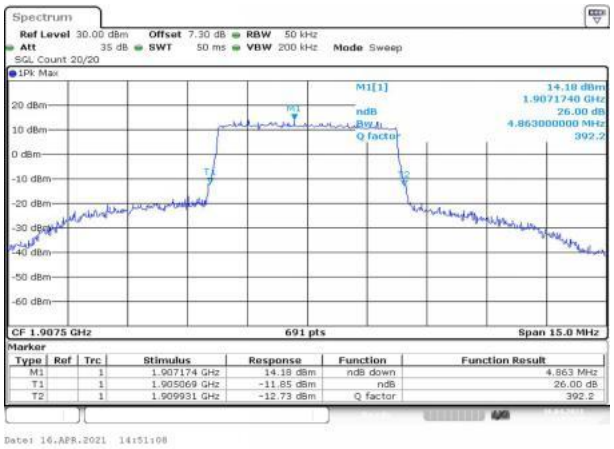

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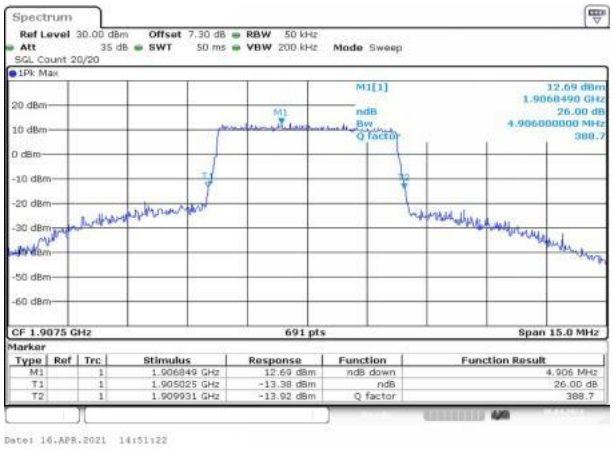

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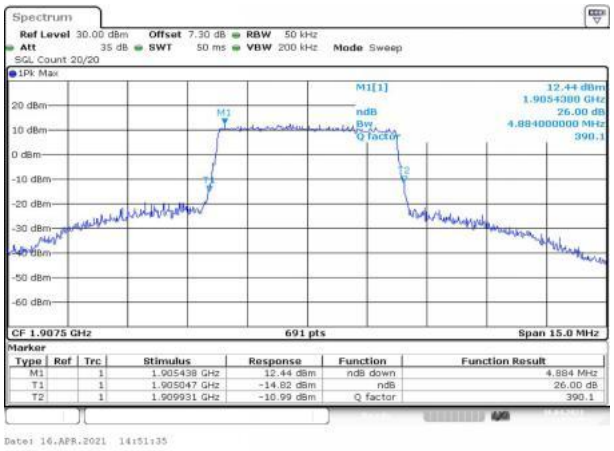

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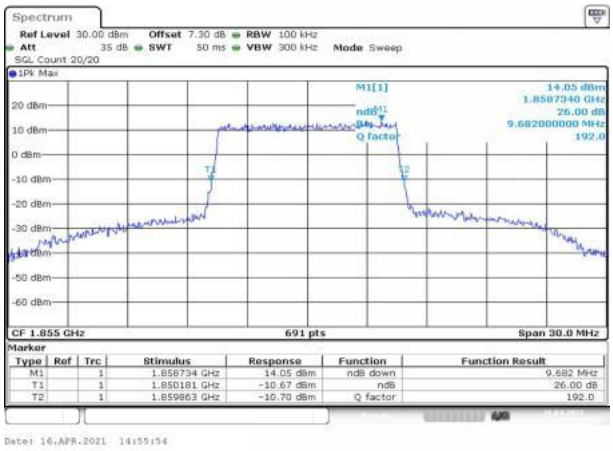

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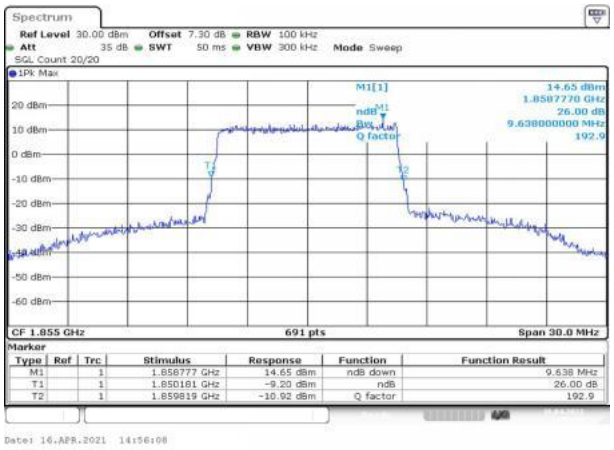

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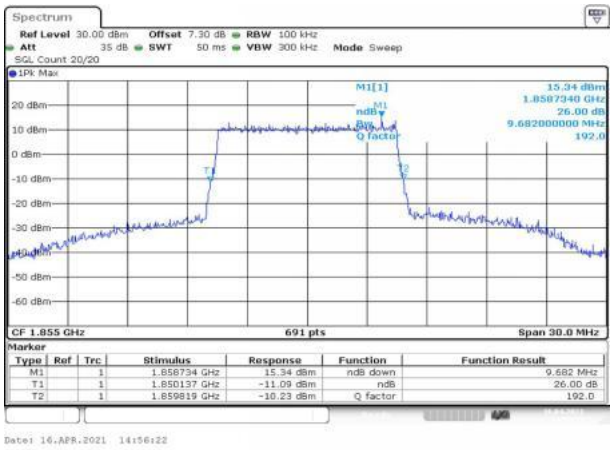
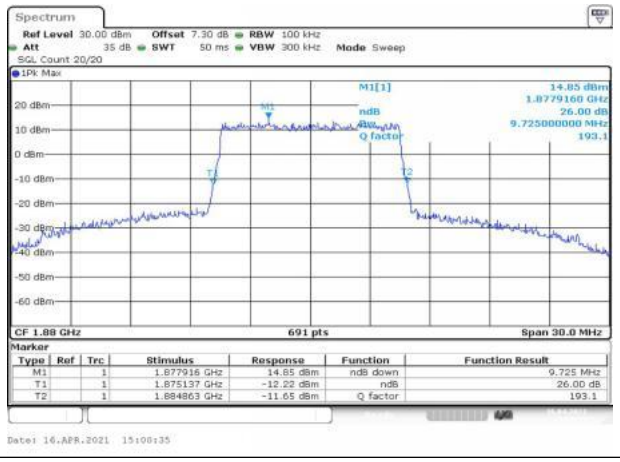


Fig.30



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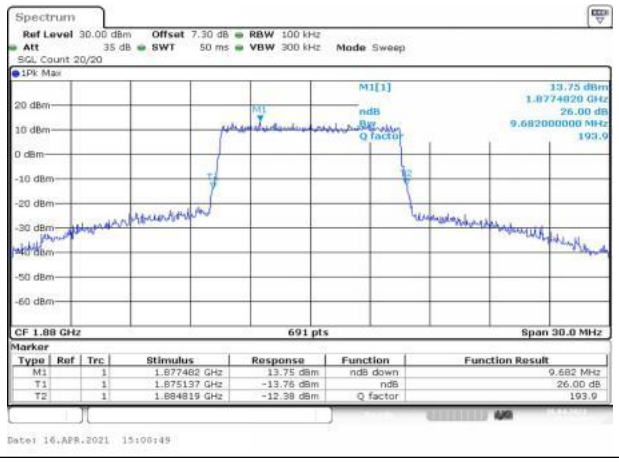

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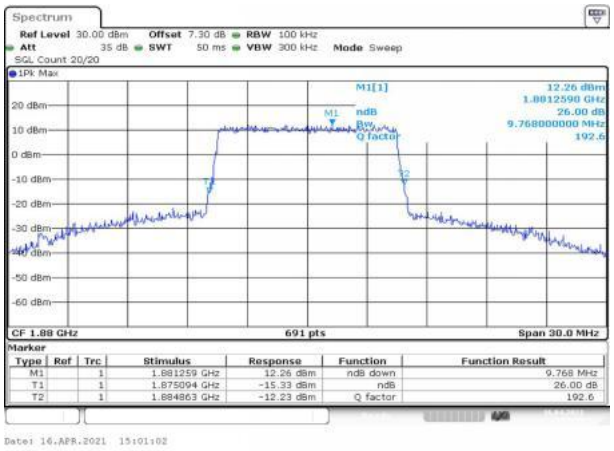

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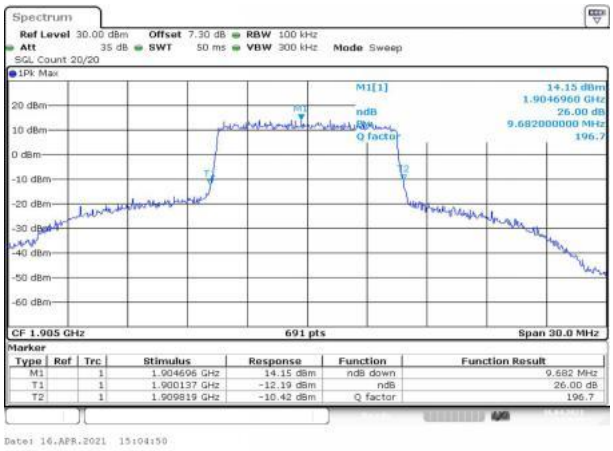

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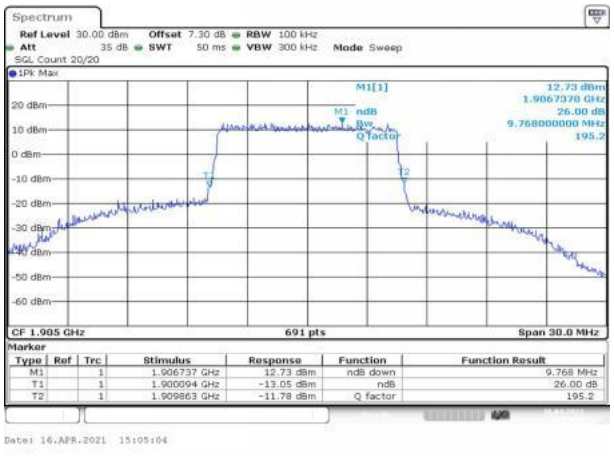

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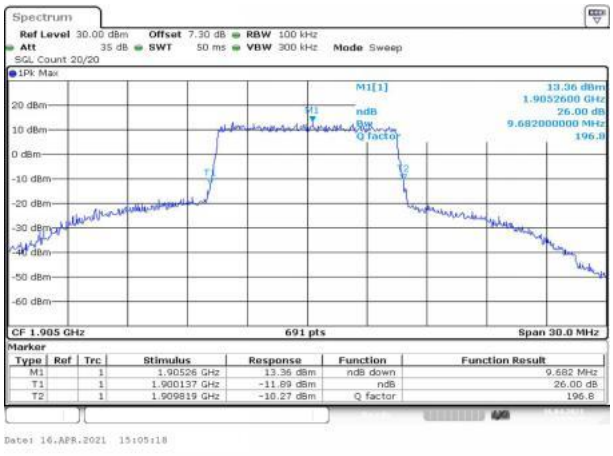

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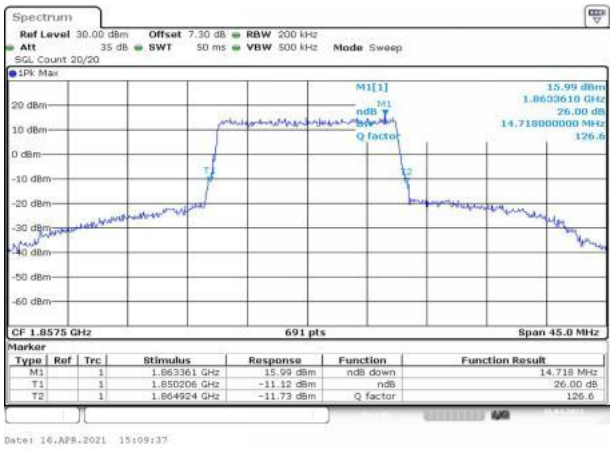


Fig.37

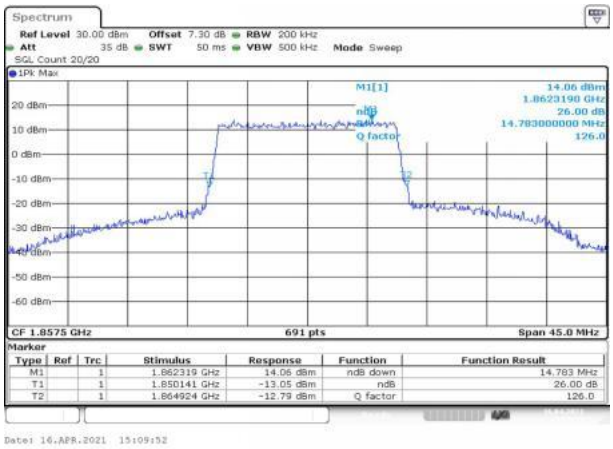
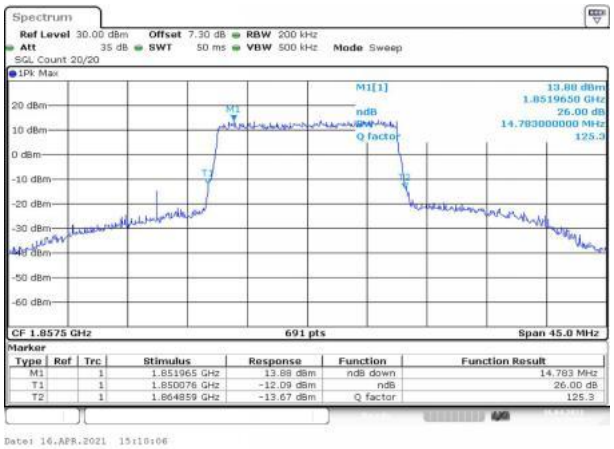


Fig.38



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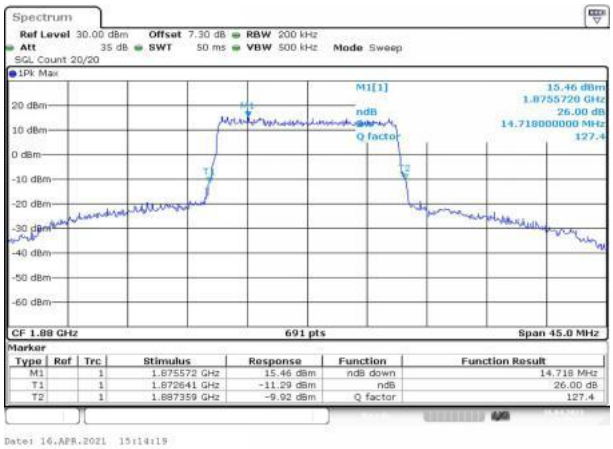
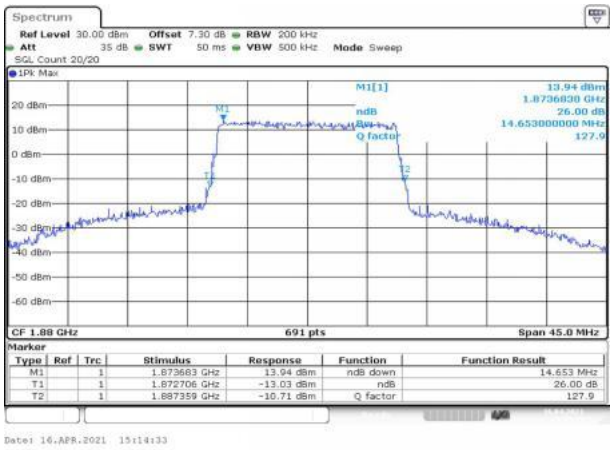


Fig.40



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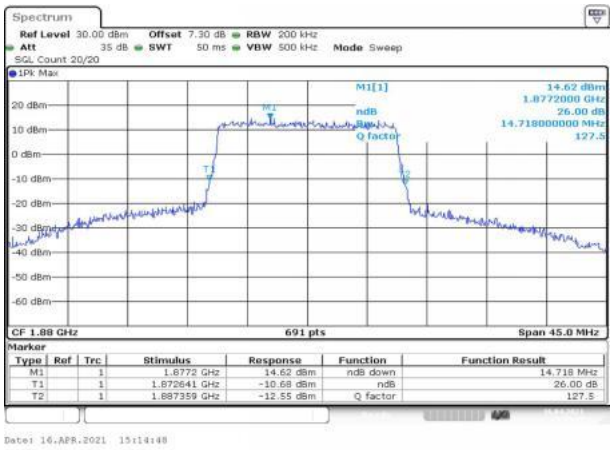

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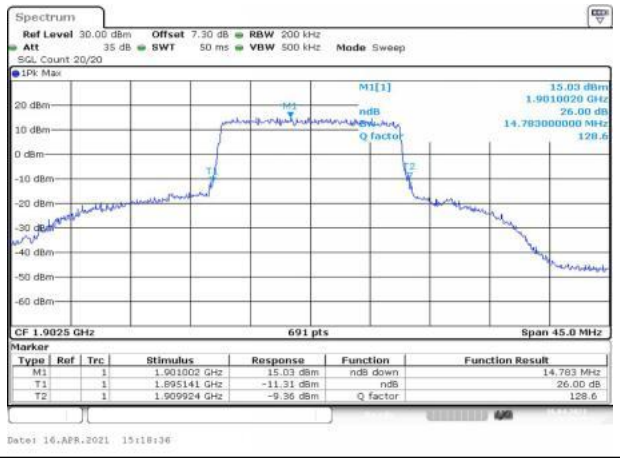

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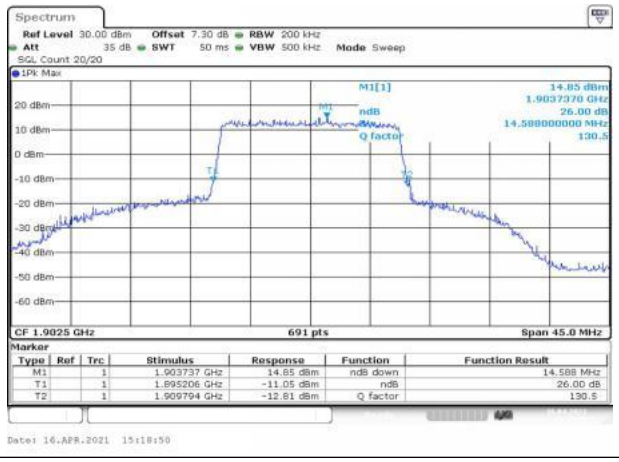

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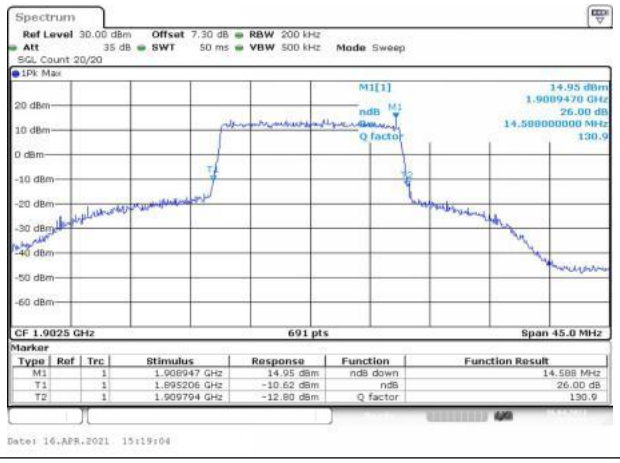


Fig.45

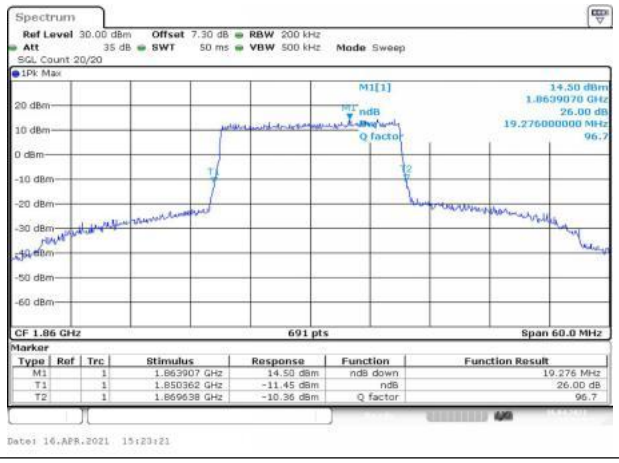


Fig.46

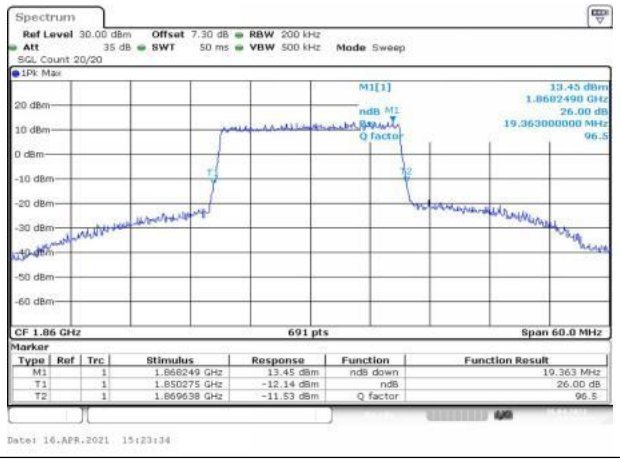


Fig.47

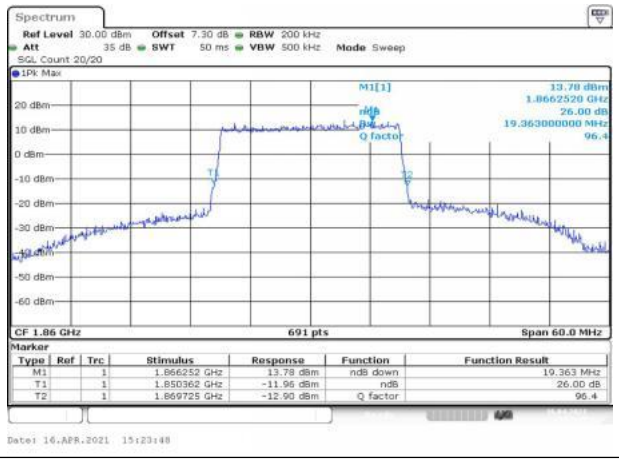


Fig.48

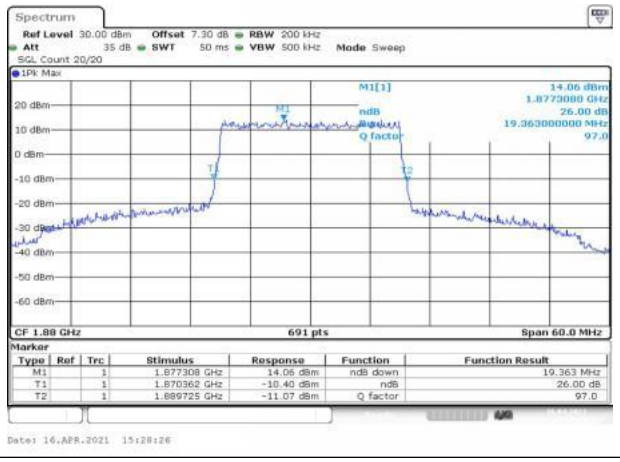


Fig.49

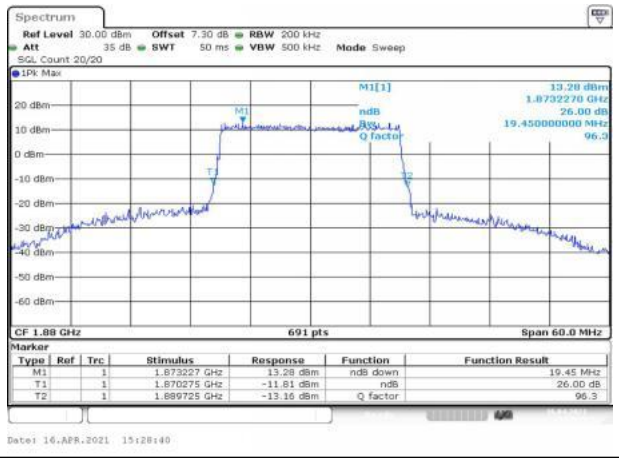


Fig.50

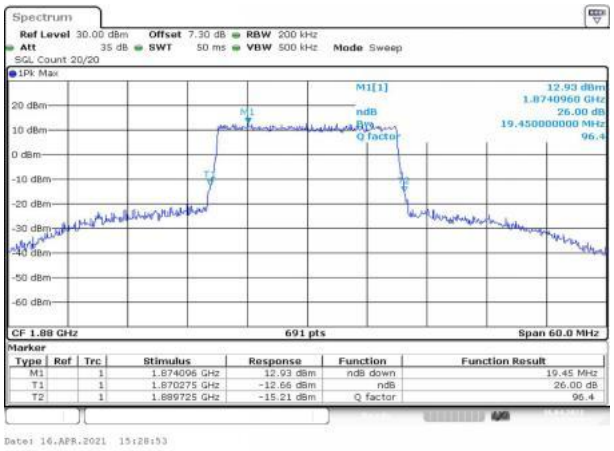
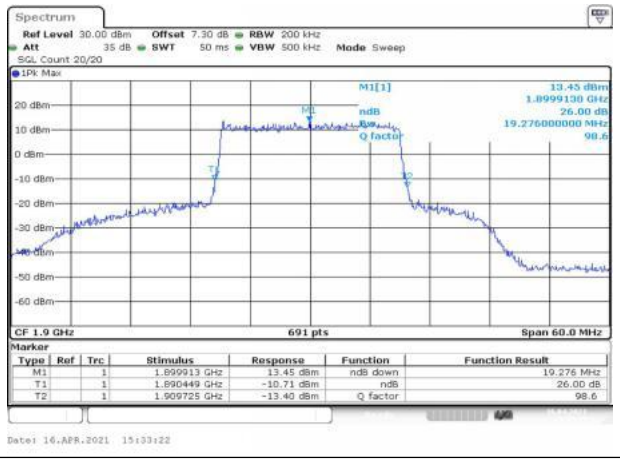


Fig.51

Fig.52



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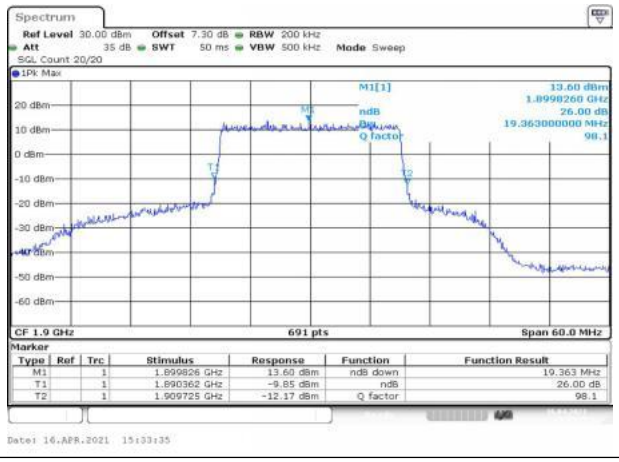


Fig.54

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
2	1850.7	18607	1.4	1	5	Fig.1	Fig.2	Fig.3
	1850.7	18607		6	0	Fig.4	Fig.5	Fig.6
	1880	18900		1	5	Fig.7	Fig.8	Fig.9
	1880	18900		6	0	Fig.10	Fig.11	Fig.12
	1909.3	19193		1	5	Fig.13	Fig.14	Fig.15
	1909.3	19193		6	0	Fig.16	Fig.17	Fig.18
	1851.5	18615	3	1	14	Fig.19	Fig.20	Fig.21
	1851.5	18615		15	0	Fig.22	Fig.23	Fig.24
	1880	18900		1	14	Fig.25	Fig.26	Fig.27
	1880	18900		15	0	Fig.28	Fig.29	Fig.30
	1908.5	19185		1	14	Fig.31	Fig.32	Fig.33
	1908.5	19185		15	0	Fig.34	Fig.35	Fig.36
	1852.5	18625	5	1	24	Fig.37	Fig.38	Fig.39
	1852.5	18625		25	0	Fig.40	Fig.41	Fig.42
	1880	18900		1	24	Fig.43	Fig.44	Fig.45
	1880	18900		25	0	Fig.46	Fig.47	Fig.48
	1907.5	19175		1	24	Fig.49	Fig.50	Fig.51
	1907.5	19175		25	0	Fig.52	Fig.53	Fig.54
	1855	18650	10	1	49	Fig.55	Fig.56	Fig.57
	1855	18650		50	0	Fig.58	Fig.59	Fig.60
	1880	18900		1	49	Fig.61	Fig.62	Fig.63
	1880	18900		50	0	Fig.64	Fig.65	Fig.66
	1905	19150		1	49	Fig.67	Fig.68	Fig.69
	1905	19150		50	0	Fig.70	Fig.71	Fig.72
	1857.5	18675	15	1	74	Fig.73	Fig.74	Fig.75
	1857.5	18675		75	0	Fig.76	Fig.77	Fig.78
	1880	18900		1	74	Fig.79	Fig.80	Fig.81
	1880	18900		75	0	Fig.82	Fig.83	Fig.84
	1902.5	19125		1	74	Fig.85	Fig.86	Fig.87
	1902.5	19125		75	0	Fig.88	Fig.89	Fig.90
	1860	18700	20	1	99	Fig.91	Fig.92	Fig.93
	1860	18700		100	0	Fig.94	Fig.95	Fig.96
	1880	18900		1	99	Fig.97	Fig.98	Fig.99
	1880	18900		100	0	Fig.100	Fig.101	Fig.102
	1900	19100		1	99	Fig.103	Fig.104	Fig.105
	1900	19100		100	0	Fig.106	Fig.107	Fig.108

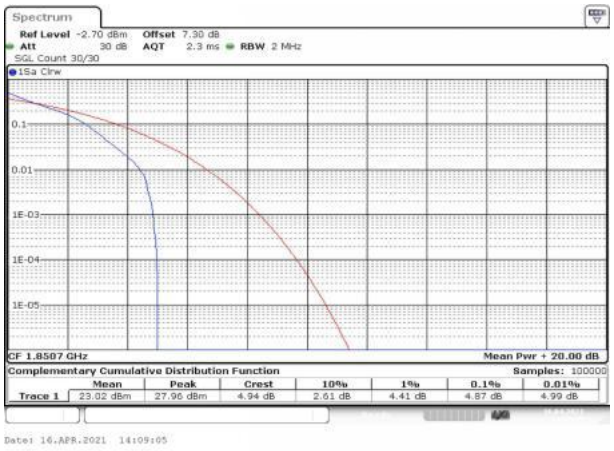


Fig.1

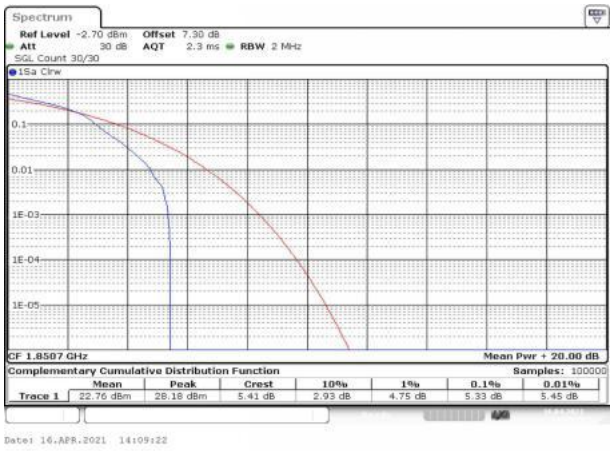


Fig.2

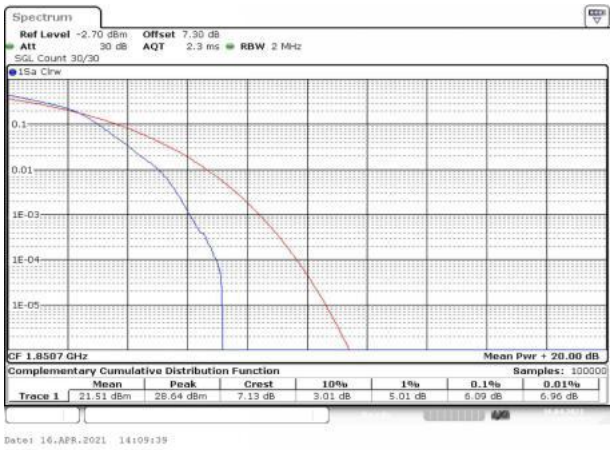


Fig.3

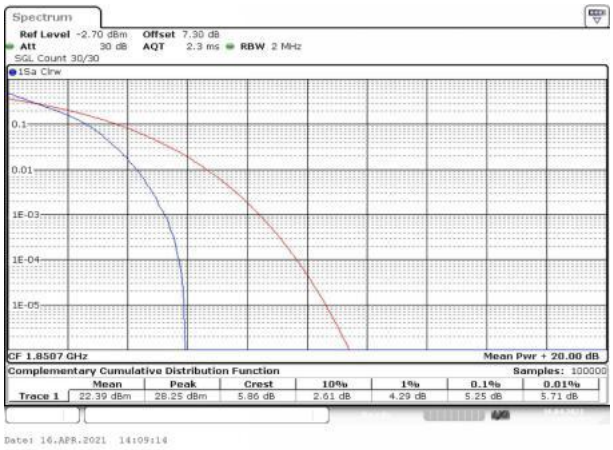


Fig.4

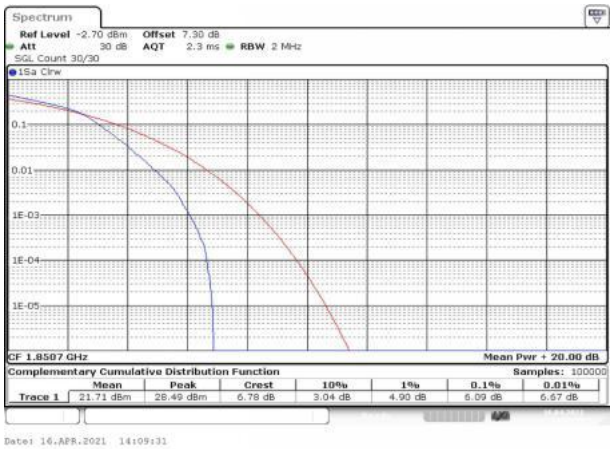


Fig.5

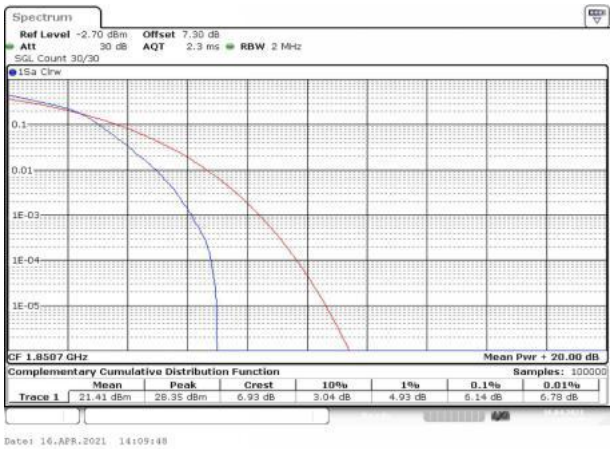


Fig.6

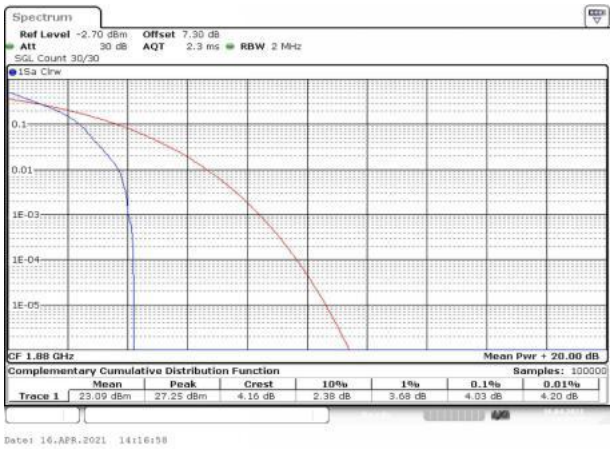


Fig.7

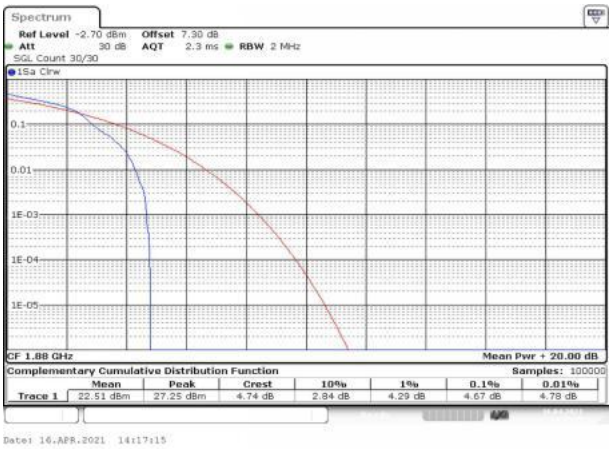


Fig.8

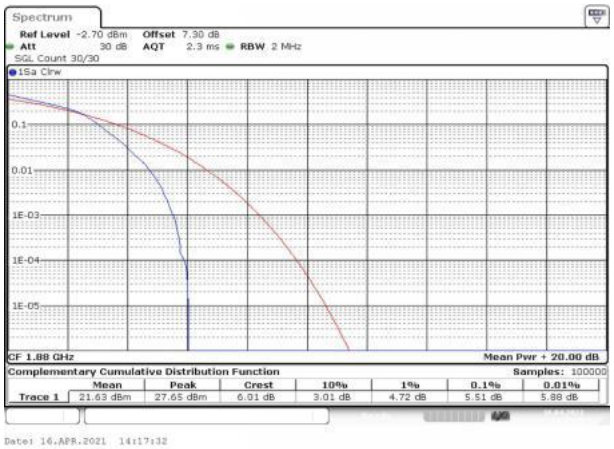


Fig.9

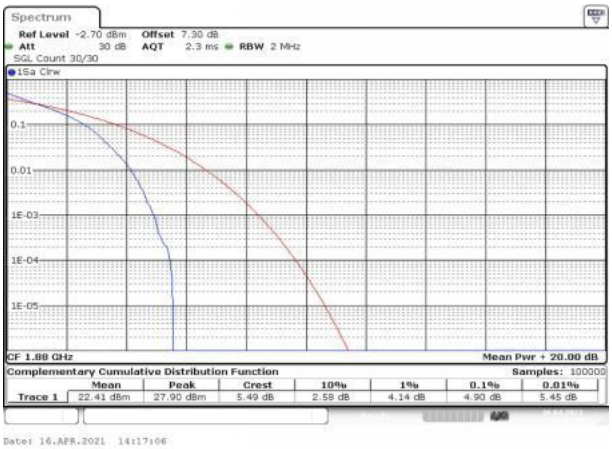
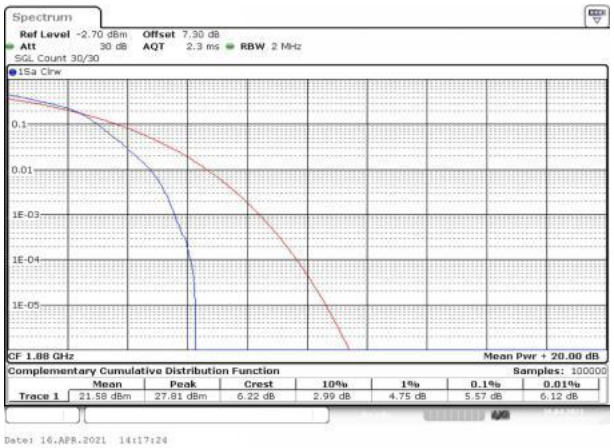


Fig.10



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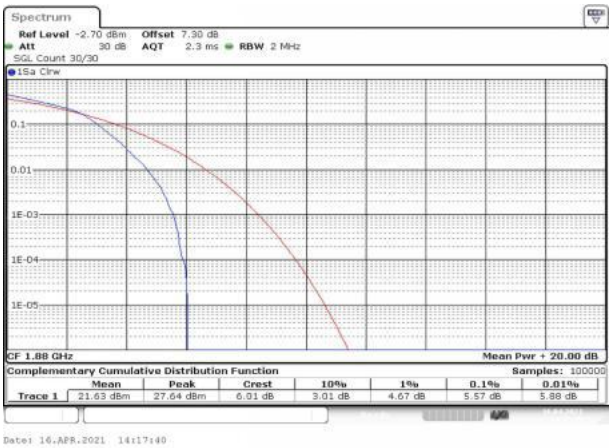

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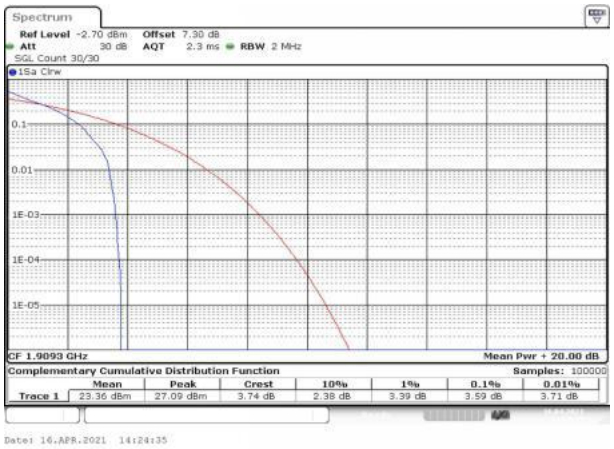
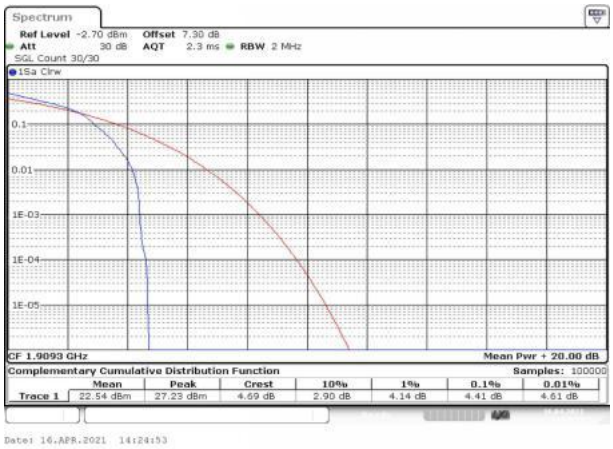


Fig.13



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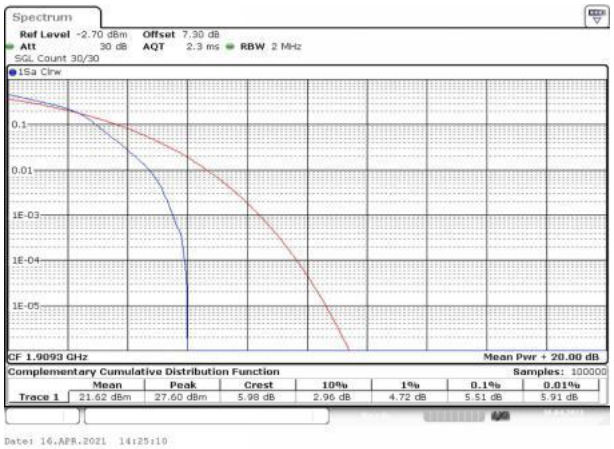

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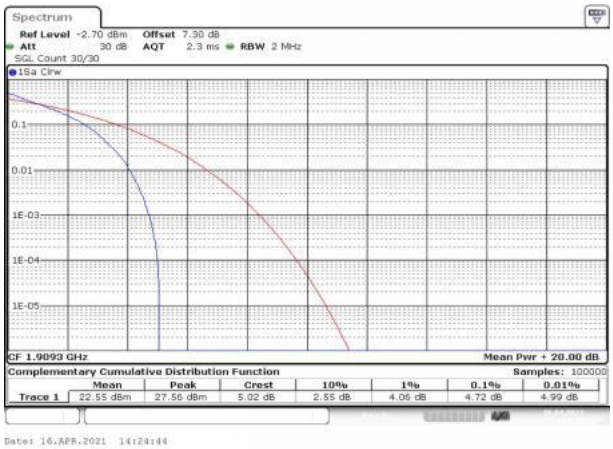

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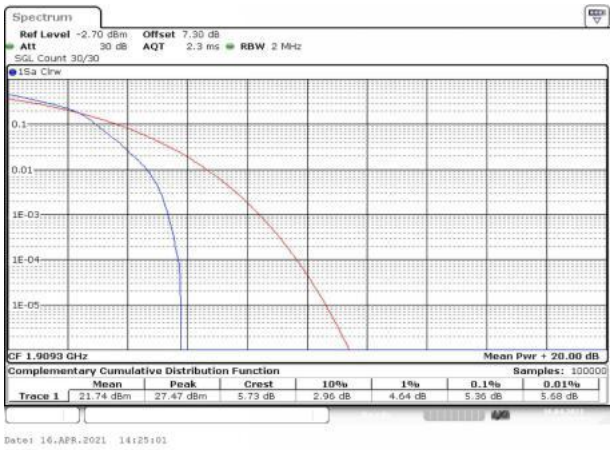

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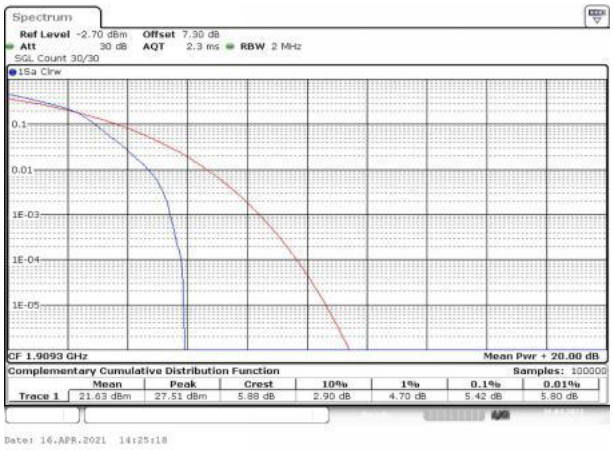

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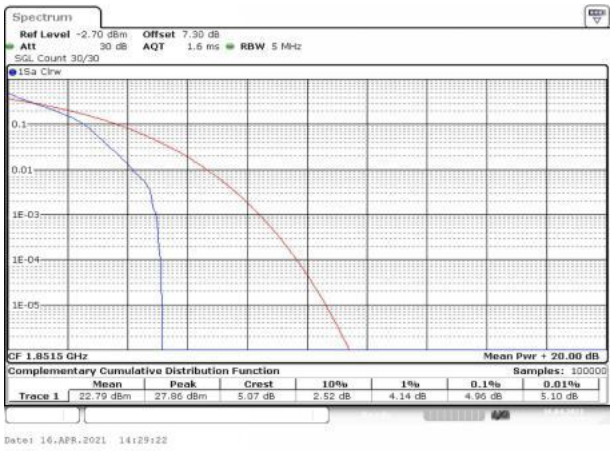

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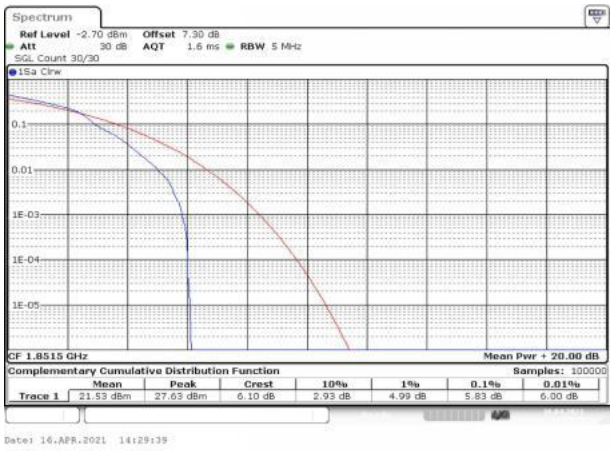
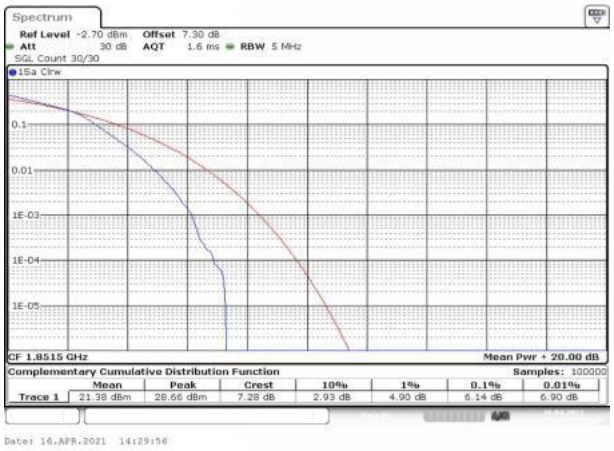


Fig.20



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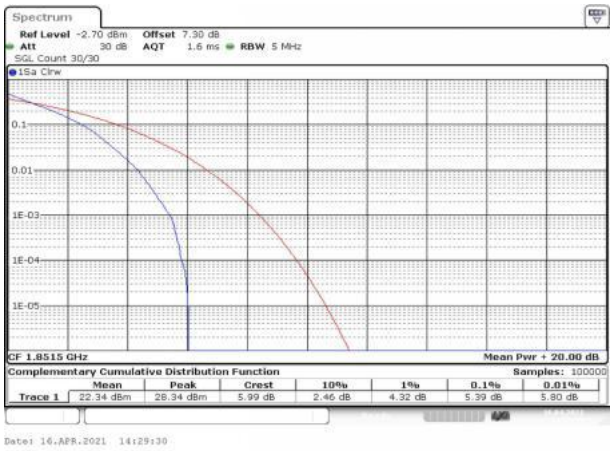

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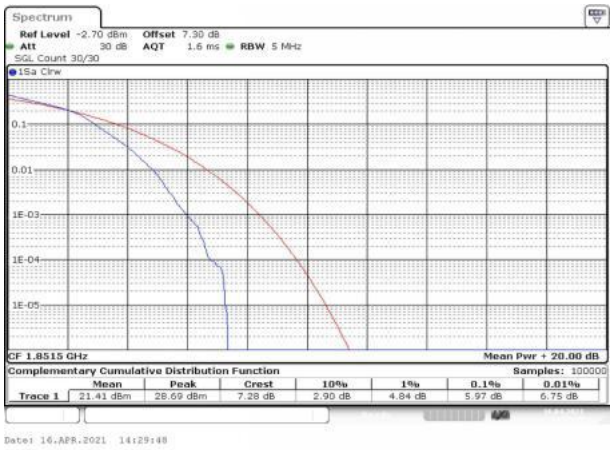

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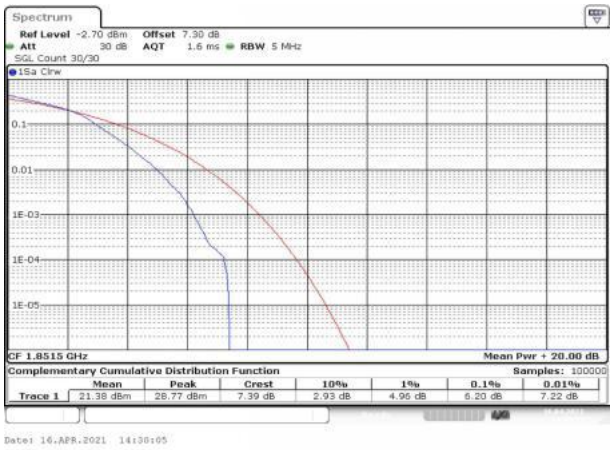


Fig.24

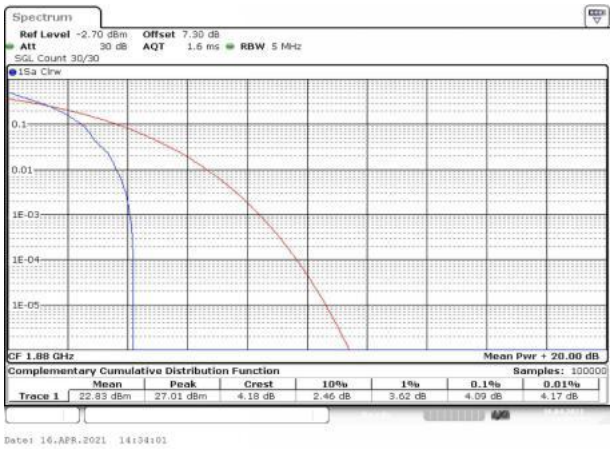


Fig.25

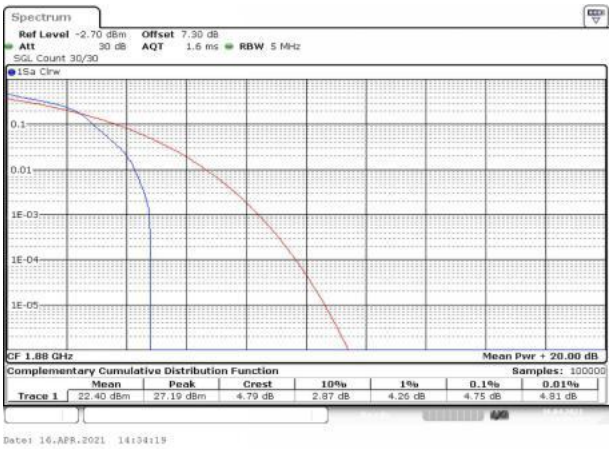


Fig.26

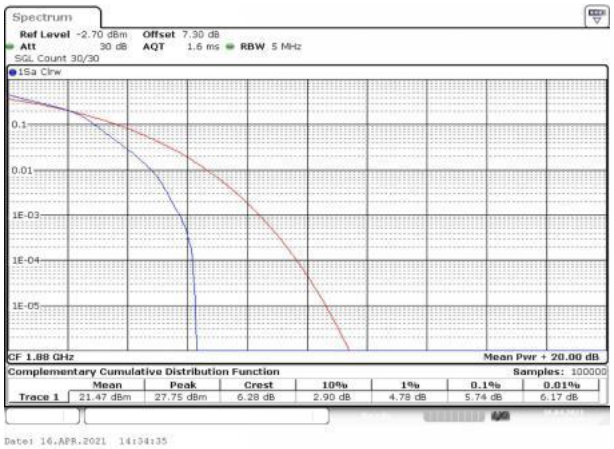
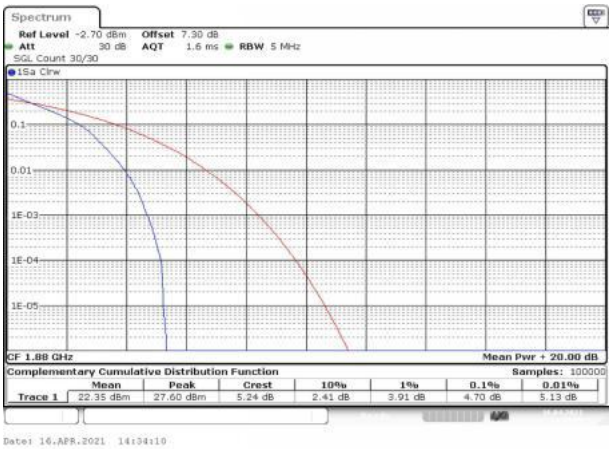


Fig.27



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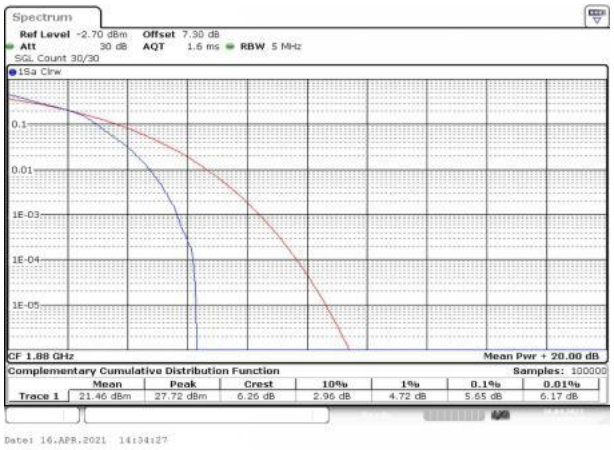

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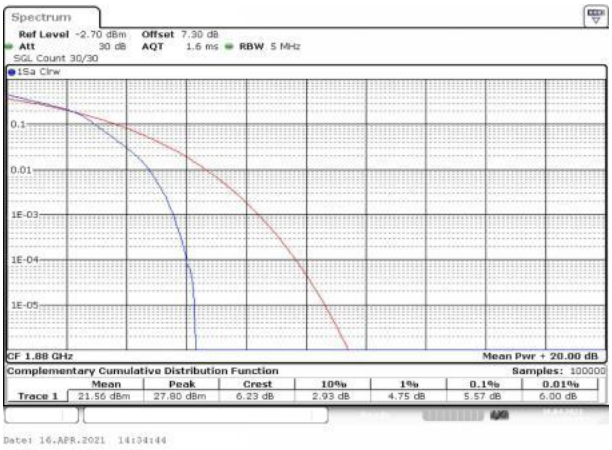


Fig.30

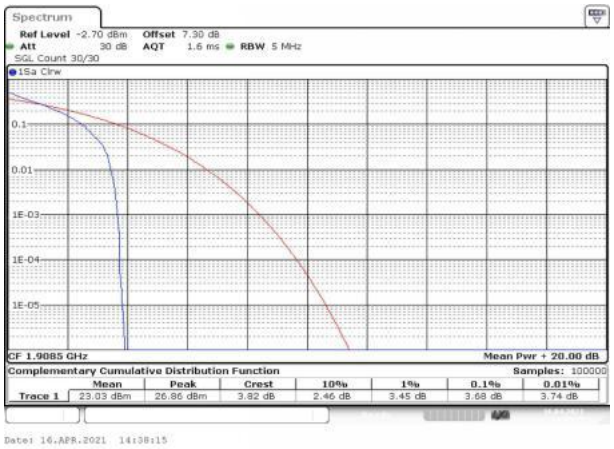


Fig.31

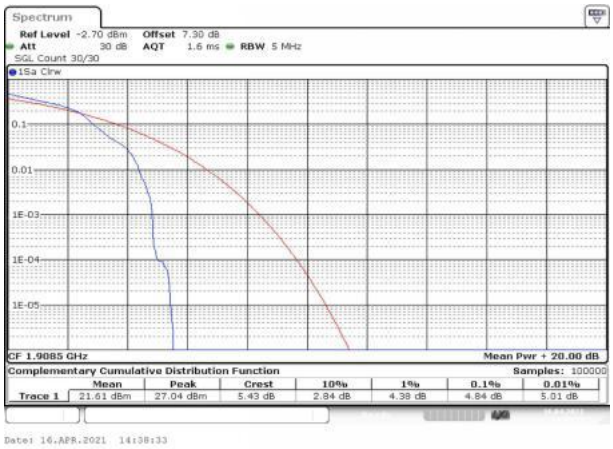
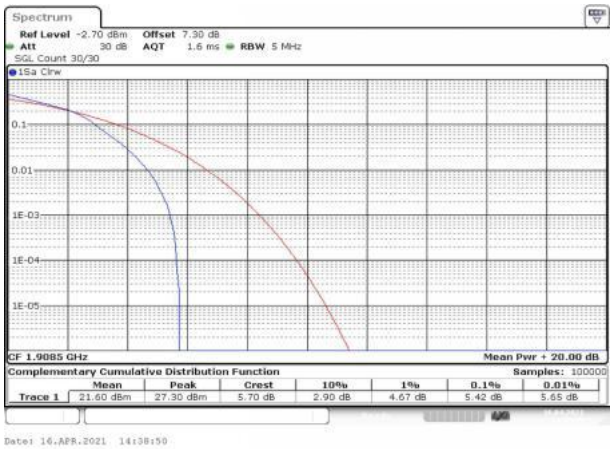


Fig.32



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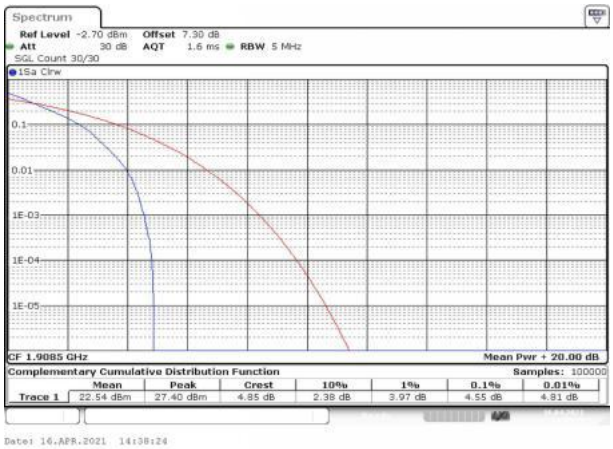

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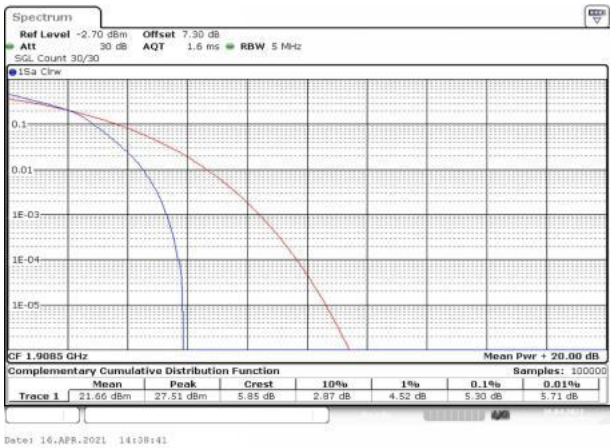


Fig.35

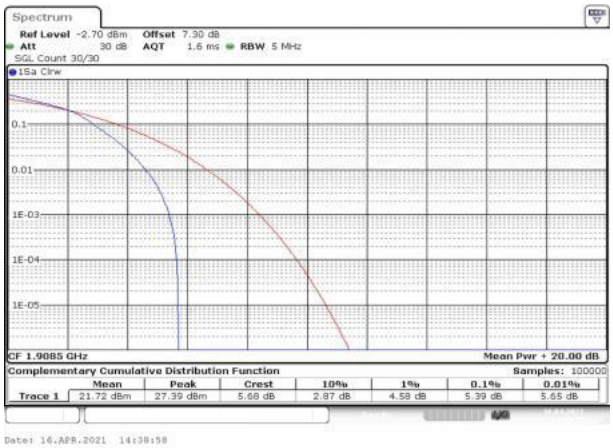
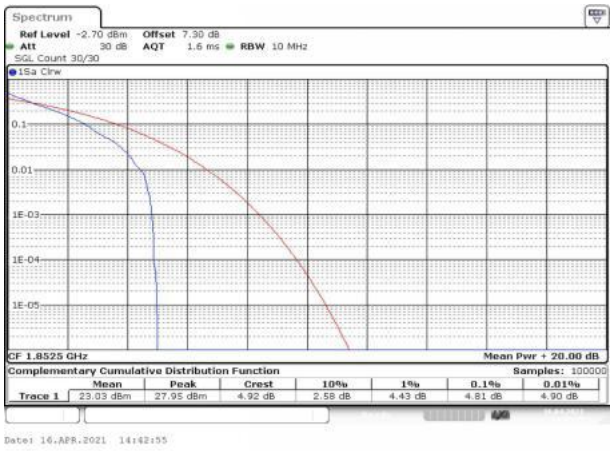


Fig.36



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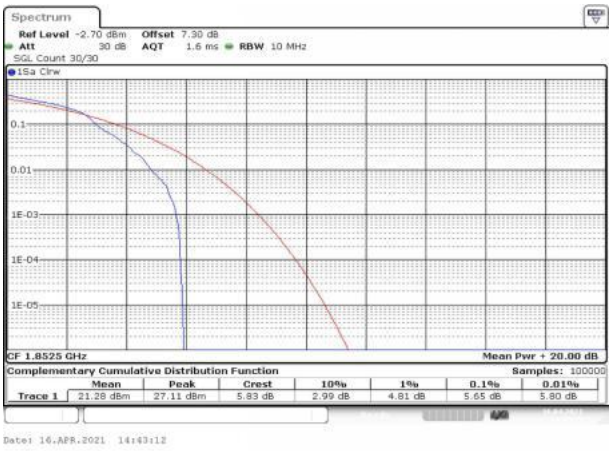

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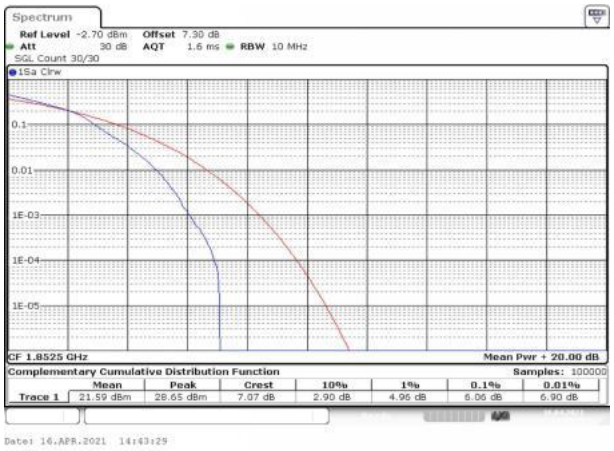


Fig.39

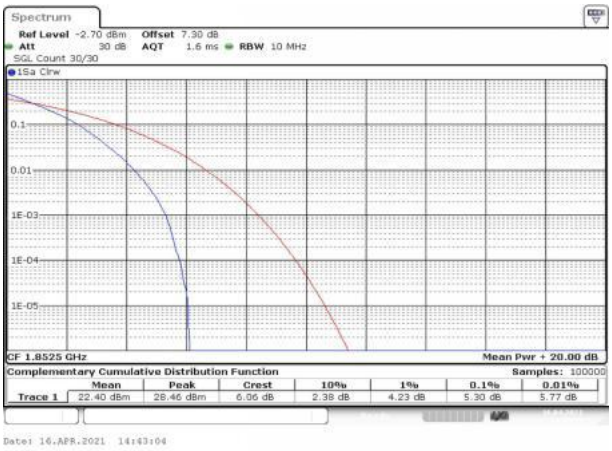
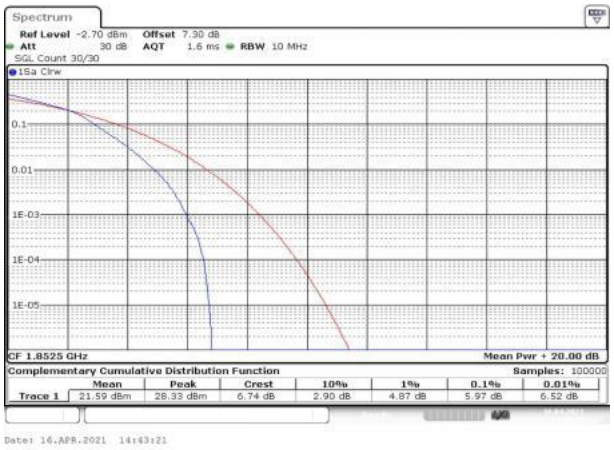


Fig.40



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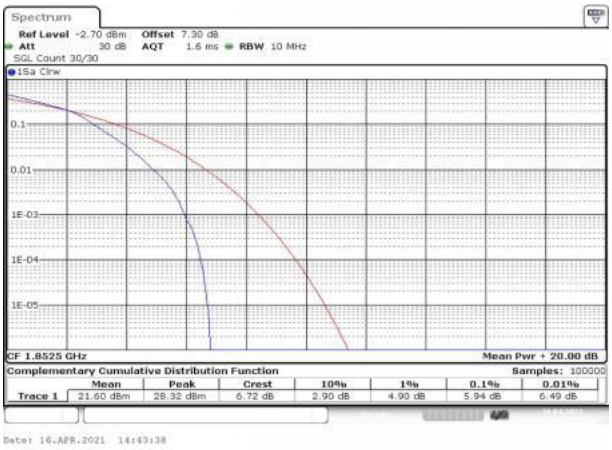
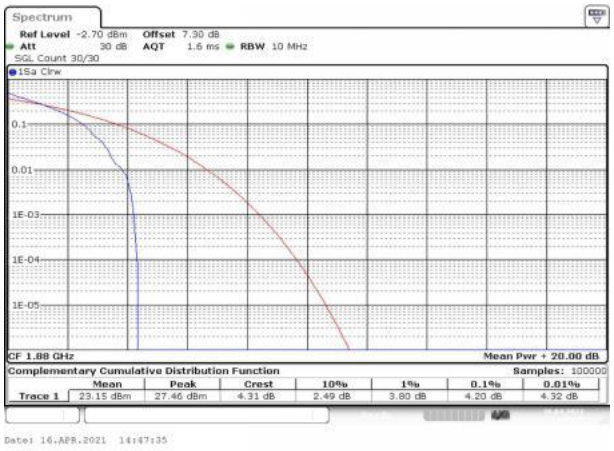


Fig.42



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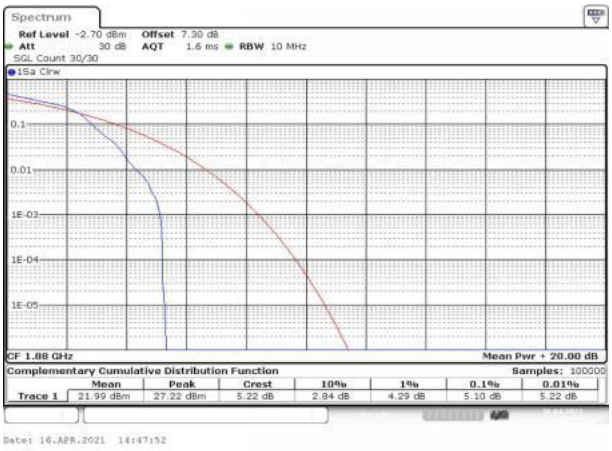

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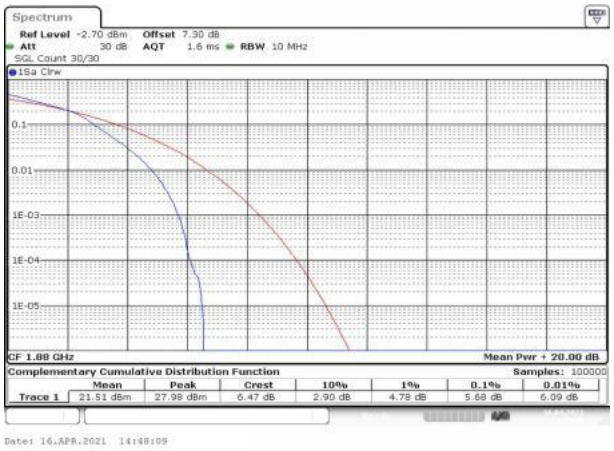

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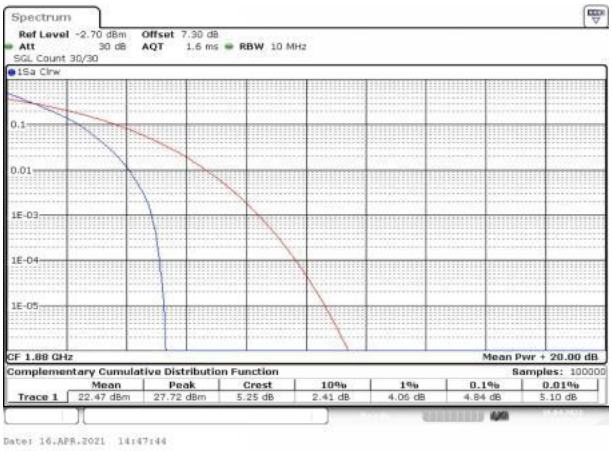

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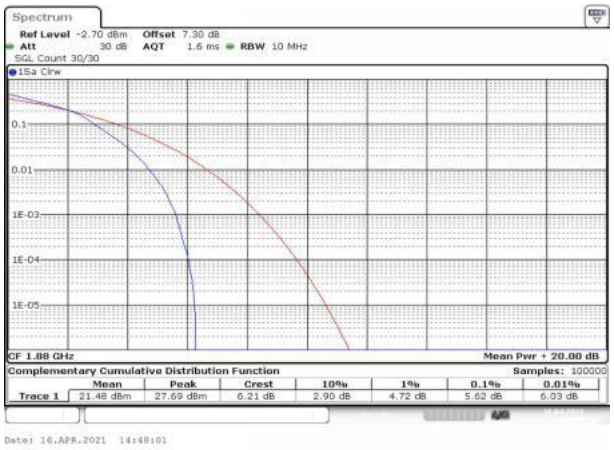

Fig.47

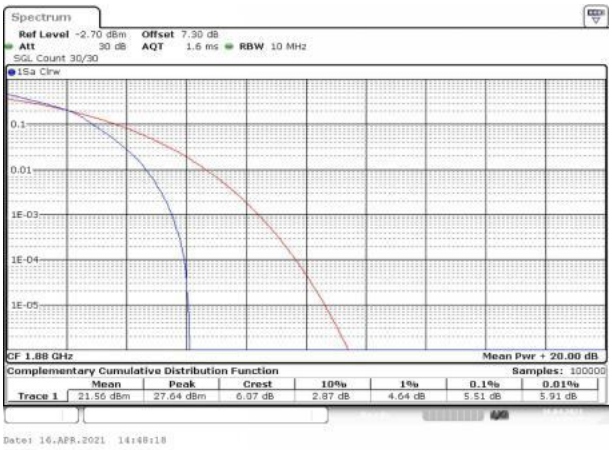

Fig.48