

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

1 RF Power Output

Rx Power Output							
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1850.7	18607	1.4	1	0	22.69	
				1	3	23.05	
				1	5	23.05	
				3	0	23.05	
				3	1	23.01	
				3	3	23.13	
				6	0	21.99	
	1880	18900		1	0	23.96	
				1	3	23.96	
				1	5	23.96	
				3	0	24.03	
				3	1	24.03	
				3	3	24.02	
				6	0	22.97	
	1909.3	19193		1	0	23.40	
				1	3	23.44	
				1	5	23.41	
				3	0	23.41	
				3	1	23.43	
				3	3	23.41	
				6	0	22.35	
	16QAM	1850.7		18607	1	0	22.64
					1	3	22.71
					1	5	22.87
3			0		22.09		
3			1		22.20		
3			3		21.92		
6			0		21.20		
1880		18900	1	0	23.09		
			1	3	23.25		
			1	5	23.25		
			3	0	22.92		
			3	1	23.14		
			3	3	23.04		
			6	0	22.44		
1909.3		19193	1	0	21.97		
			1	3	21.95		
			1	5	21.95		
			3	0	22.23		
3	1	22.18					
3	3	22.59					
6	0	21.65					

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	21.25
				1	3	21.40
				1	5	21.40
				3	0	21.40
				3	1	21.48
				3	3	21.39
				6	0	21.38
	1880	18900		1	0	22.44
				1	3	22.44
				1	5	22.43
				3	0	22.44
				3	1	22.43
				3	3	22.53
				6	0	22.54
	1909.3	19193		1	0	21.57
				1	3	21.59
				1	5	21.68
				3	0	21.72
				3	1	21.72
				3	3	21.75
				6	0	21.75

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	22.91
				1	8	22.90
				1	14	23.02
				8	0	22.18
				8	4	21.93
				8	7	21.92
				15	0	22.17
	1880	18900		1	0	23.99
				1	8	23.83
				1	14	23.83
				8	0	22.92
				8	4	22.93
				8	7	22.93
				15	0	22.77
	1908.5	19185		1	0	23.35
				1	8	23.38
				1	14	23.34
				8	0	22.34
				8	4	22.45
				8	7	22.44
				15	0	22.51
16QAM	1851.5	18615	1	0	22.53	
			1	8	22.32	
			1	14	22.32	
			8	0	21.69	
			8	4	21.67	
			8	7	21.67	
			15	0	21.57	
	1880	18900	1	0	23.23	
			1	8	23.01	
			1	14	23.01	
			8	0	22.54	
			8	4	22.46	
			8	7	22.44	
			15	0	22.29	
	1908.5	19185	1	0	21.96	
			1	8	22.25	
			1	14	22.23	
			8	0	21.61	
			8	4	21.70	
			8	7	21.69	
			15	0	21.56	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	21.57
				1	8	21.58
				1	14	21.57
				8	0	21.57
				8	4	21.57
				8	7	21.45
				15	0	21.45
	1880	18900		1	0	22.29
				1	8	22.23
				1	14	22.28
				8	0	22.17
				8	4	22.23
				8	7	22.29
				15	0	22.17
	1908.5	19185		1	0	21.56
				1	8	21.56
				1	14	21.56
				8	0	21.48
				8	4	21.56
				8	7	21.57
				15	0	21.57

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	23.07
				1	12	22.80
				1	24	22.79
				12	0	22.30
				12	7	22.18
				12	13	22.17
				25	0	22.01
	1880	18900		1	0	24.23
				1	12	24.04
				1	24	24.03
				12	0	23.02
				12	7	22.87
				12	13	22.87
				25	0	22.88
	1907.5	19175		1	0	23.50
				1	12	23.39
				1	24	23.36
				12	0	22.49
				12	7	22.44
				12	13	22.43
				25	0	22.35
16QAM	1852.5	18625	1	0	21.50	
			1	12	21.09	
			1	24	21.15	
			12	0	21.57	
			12	7	21.57	
			12	13	21.69	
			25	0	21.64	
	1880	18900	1	0	23.08	
			1	12	22.93	
			1	24	22.94	
			12	0	22.37	
			12	7	22.27	
			12	13	22.27	
			25	0	22.35	
	1907.5	19175	1	0	22.08	
			1	12	22.02	
			1	24	22.15	
			12	0	21.40	
			12	7	21.42	
			12	13	21.53	
			25	0	21.60	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	21.64
				1	12	21.63
				1	24	21.64
				12	0	21.64
				12	7	21.64
				12	13	21.63
				25	0	21.63
	1880	18900		1	0	22.35
				1	12	22.35
				1	24	22.35
				12	0	22.35
				12	7	22.35
				12	13	22.35
				25	0	22.35
	1907.5	19175		1	0	21.24
				1	12	21.59
				1	24	21.60
				12	0	21.60
				12	7	21.60
				12	13	21.38
				25	0	21.38

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	23.24
				1	25	23.14
				1	49	23.12
				25	0	22.00
				25	12	21.99
				25	25	21.99
				50	0	22.00
	1880	18900		1	0	24.32
				1	25	23.95
				1	49	23.94
				25	0	23.12
				25	12	22.89
				25	25	22.88
				50	0	22.91
	1905	19150		1	0	23.56
				1	25	23.39
				1	49	23.45
				25	0	22.38
				25	12	22.39
				25	25	22.38
				50	0	22.47
16QAM	1855	18650	1	0	22.43	
			1	25	22.35	
			1	49	22.36	
			25	0	21.50	
			25	12	21.51	
			25	25	21.51	
			50	0	21.52	
	1880	18900	1	0	23.96	
			1	25	23.62	
			1	49	23.11	
			25	0	22.33	
			25	12	22.49	
			25	25	22.49	
			50	0	22.36	
	1905	19150	1	0	22.33	
			1	25	22.25	
			1	49	22.23	
			25	0	21.68	
			25	12	21.72	
			25	25	21.72	
			50	0	21.55	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	21.52
				1	25	21.52
				1	49	21.52
				25	0	21.52
				25	12	21.52
				25	25	21.51
				50	0	21.51
	1880	18900		1	0	22.36
				1	25	22.56
				1	49	22.31
				25	0	22.51
				25	12	22.36
				25	25	22.36
				50	0	22.36
	1905	19150		1	0	21.56
				1	25	21.57
				1	49	21.45
				25	0	21.57
				25	12	21.54
				25	25	21.50
				50	0	21.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1857.5	18675	15	1	0	23.14	
				1	37	23.40	
				1	74	23.48	
				36	0	21.89	
				36	29	22.23	
				36	30	22.23	
				75	0	21.94	
	1880	18900		1	0	24.16	
				1	37	23.87	
				1	74	23.86	
				36	0	23.18	
				36	29	22.73	
				36	30	22.73	
				75	0	22.80	
	1902.5	19125		1	0	23.56	
				1	37	23.31	
				1	74	23.27	
				36	0	22.58	
				36	29	22.41	
				36	30	22.41	
				75	0	22.44	
	16QAM	1857.5		18675	1	0	22.78
					1	37	22.92
					1	74	22.89
36					0	21.44	
36					29	21.19	
36					30	21.20	
75					0	21.50	
1880		18900	1	0	23.94		
			1	37	23.15		
			1	74	23.06		
			36	0	22.30		
			36	29	22.33		
			36	30	22.33		
			75	0	22.30		
1902.5		19125	1	0	22.95		
			1	37	22.80		
			1	74	22.71		
			36	0	21.61		
			36	29	21.53		
			36	30	21.53		
			75	0	21.49		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	21.50
				1	37	21.50
				1	74	21.50
				36	0	21.50
				36	29	21.50
				36	30	21.50
				75	0	21.50
	1880	18900		1	0	22.31
				1	37	22.31
				1	74	22.30
				36	0	22.31
				36	29	22.31
				36	30	22.31
				75	0	22.30
	1902.5	19125		1	0	21.50
				1	37	21.51
				1	74	21.51
				36	0	21.52
				36	29	21.51
				36	30	21.51
				75	0	21.58

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	23.45
				1	49	23.99
				1	99	23.97
				50	0	22.04
				50	24	22.43
				50	50	22.44
				100	0	22.03
	1880	18900		1	0	24.12
				1	49	23.93
				1	99	23.79
				50	0	23.20
				50	24	22.87
				50	50	22.87
				100	0	22.86
	1900	19100		1	0	23.77
				1	49	23.50
				1	99	23.35
				50	0	22.64
				50	24	22.43
				50	50	22.42
				100	0	22.46
16QAM	1860	18700	1	0	22.36	
			1	49	22.81	
			1	99	22.81	
			50	0	21.57	
			50	24	21.92	
			50	50	21.93	
			100	0	21.10	
	1880	18900	1	0	22.94	
			1	49	22.71	
			1	99	22.72	
			50	0	22.74	
			50	24	22.37	
			50	50	22.37	
			100	0	22.26	
	1900	19100	1	0	23.48	
			1	49	23.16	
			1	99	23.23	
			50	0	22.04	
			50	24	21.50	
			50	50	21.51	
			100	0	21.68	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	21.10
				1	49	21.11
				1	99	21.10
				50	0	21.11
				50	24	21.00
				50	50	21.10
				100	0	21.10
	1880	18900		1	0	22.26
				1	49	22.26
				1	99	22.26
				50	0	22.27
				50	24	22.26
				50	50	22.26
				100	0	22.26
	1900	19100		1	0	21.68
				1	49	21.69
				1	99	21.69
				50	0	21.64
				50	24	21.64
				50	50	21.53
				100	0	21.54

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	1.082	Fig.3
	1880	18900		6	0	1.082	Fig.4	1.088	Fig.5	1.082	Fig.6
	1909.3	19193		6	0	1.088	Fig.7	1.082	Fig.8	1.088	Fig.9
	1851.5	18615	3	15	0	2.683	Fig.10	2.683	Fig.11	2.696	Fig.12
	1880	18900		15	0	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	1908.5	19185		15	0	2.683	Fig.16	2.696	Fig.17	2.696	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	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	1880	18900		50	0	8.944	Fig.31	8.944	Fig.32	8.987	Fig.33
	1905	19150		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36
	1857.5	18675	15	75	0	13.415	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	13.480	Fig.43	13.480	Fig.44	13.415	Fig.45
	1860	18700	20	100	0	17.887	Fig.46	17.887	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	17.800	Fig.52	17.887	Fig.53	17.887	Fig.54

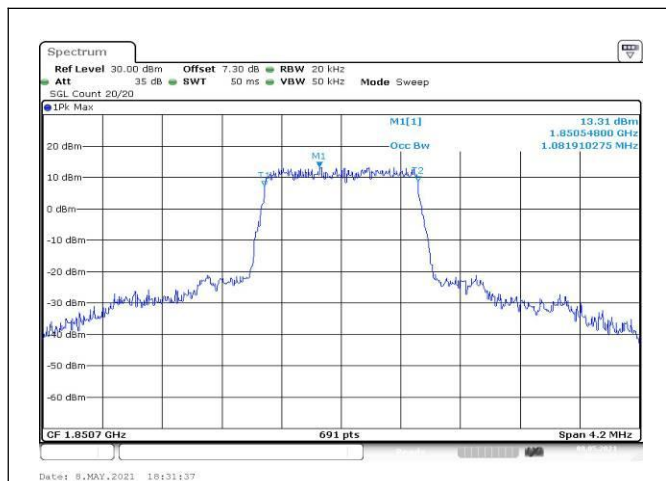


Fig.1

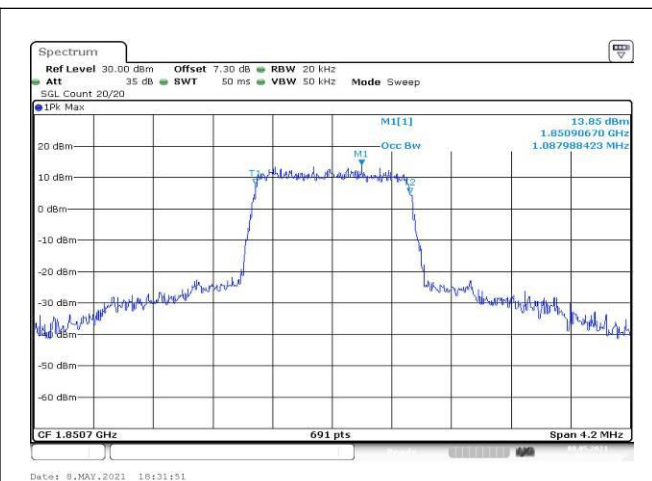


Fig.2

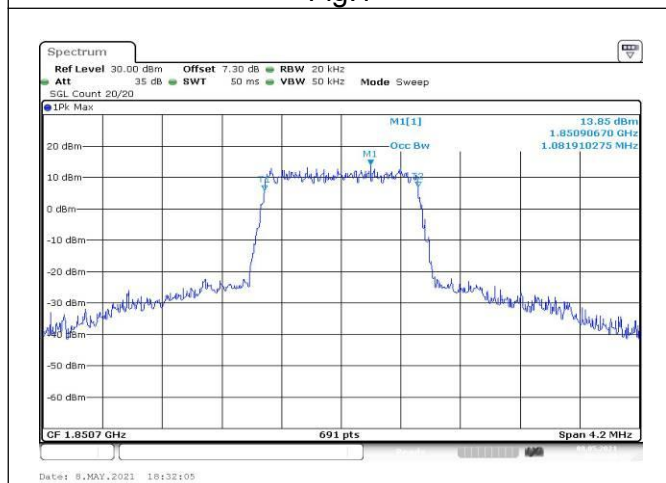


Fig.3

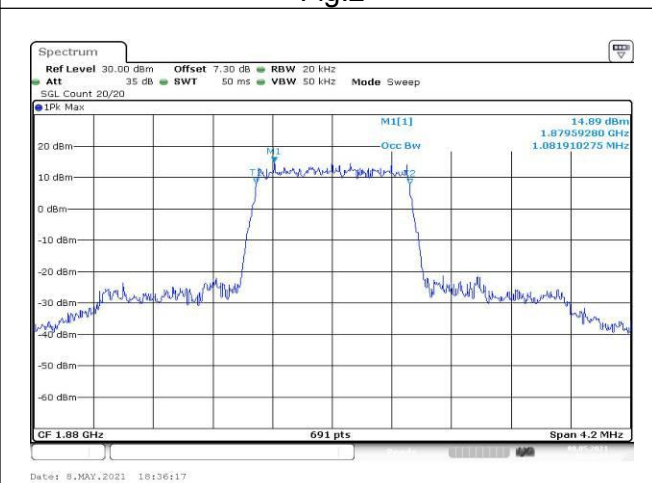


Fig.4

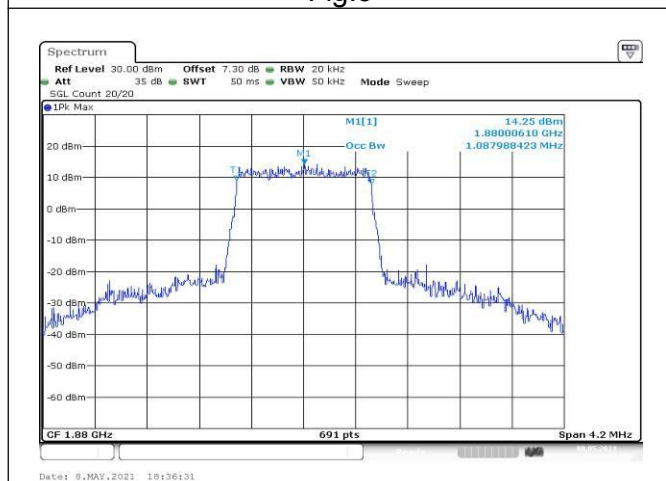


Fig.5

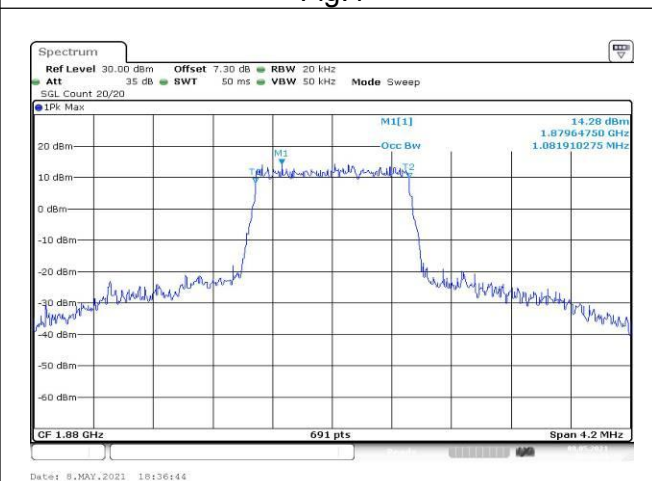
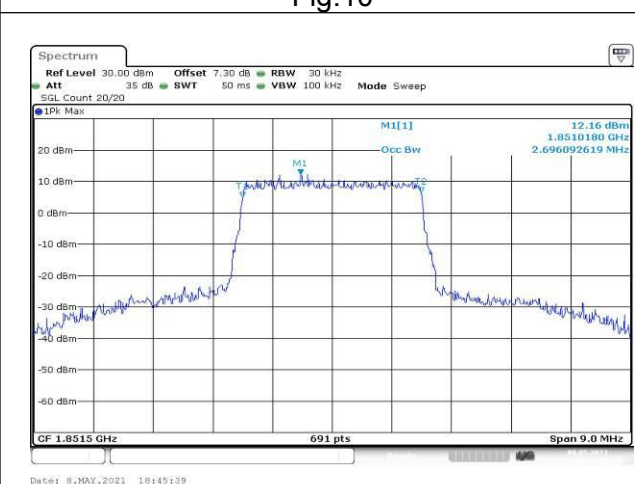
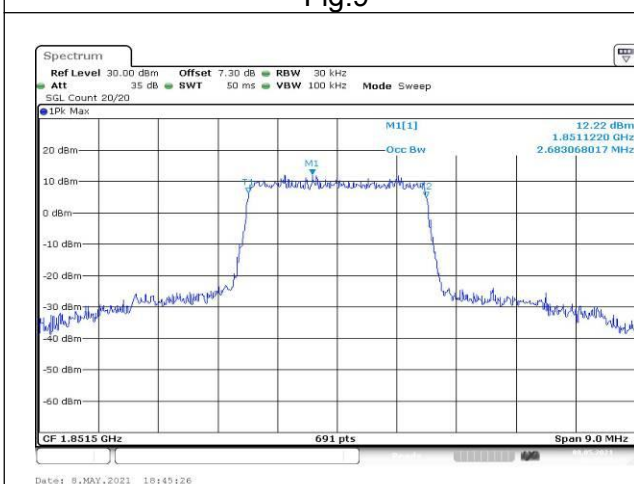
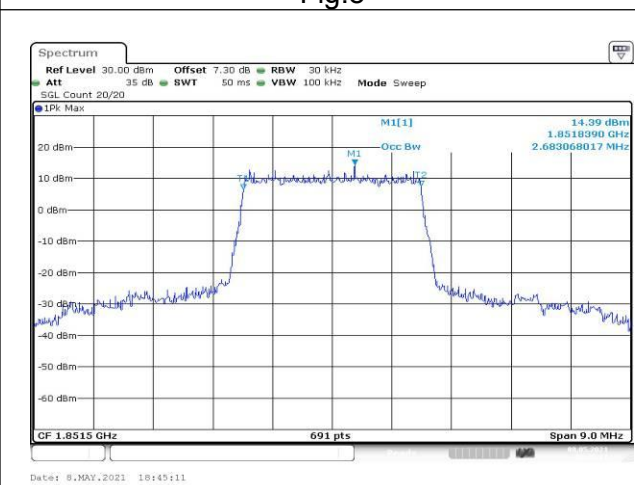
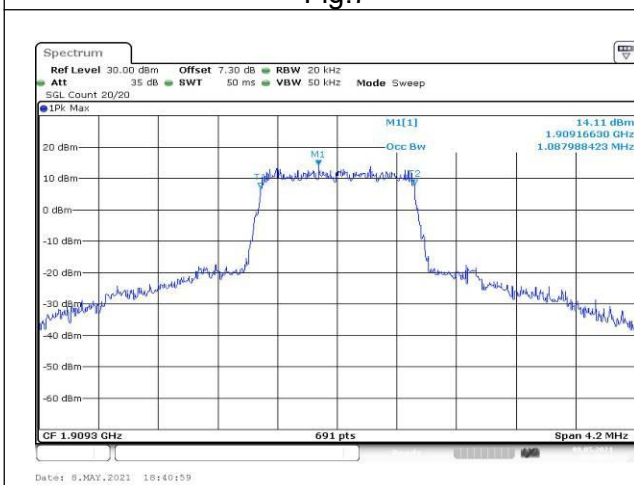
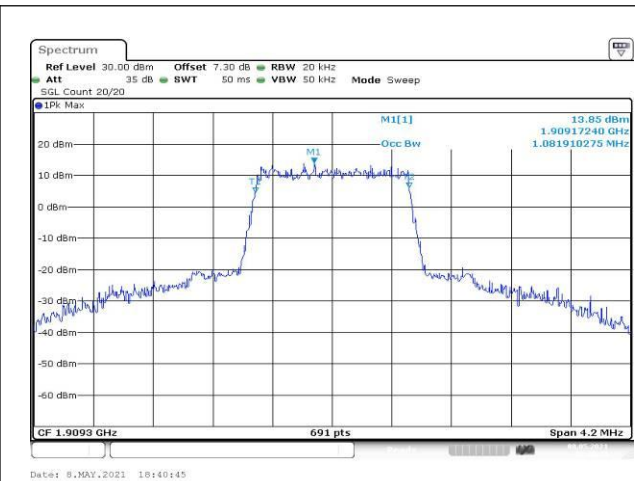
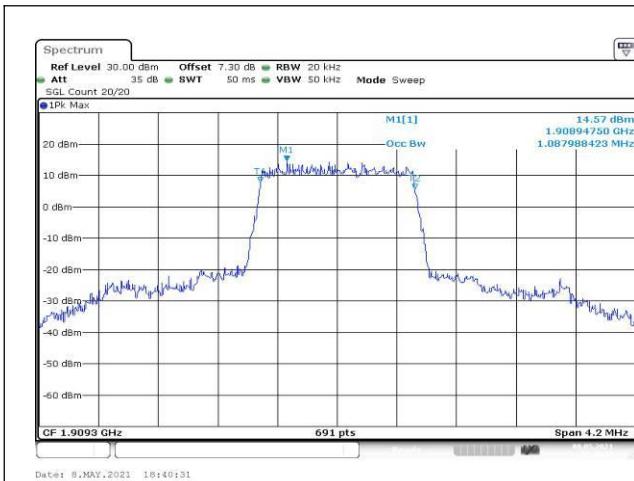
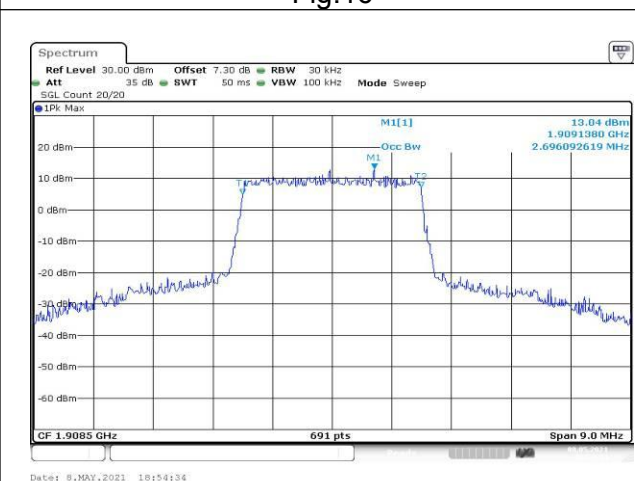
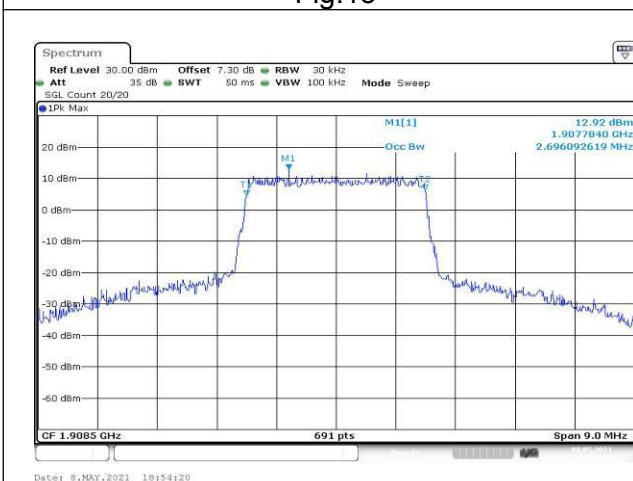
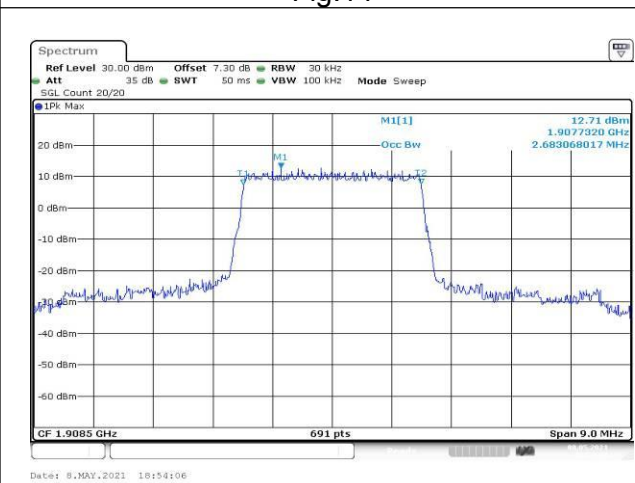
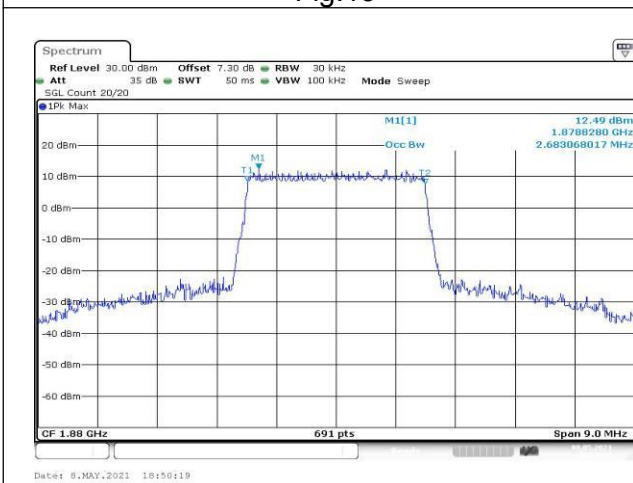
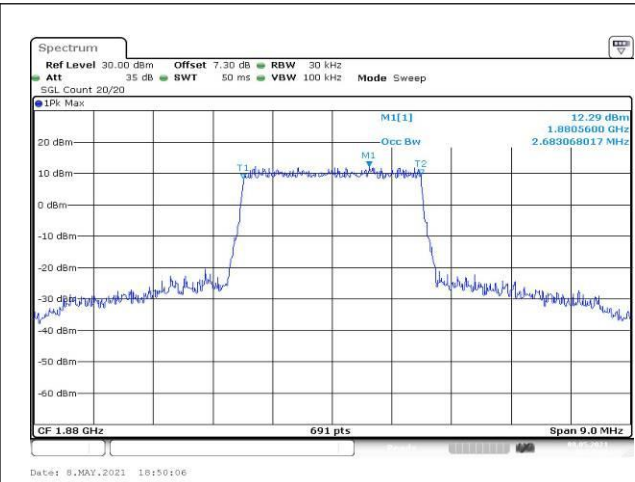
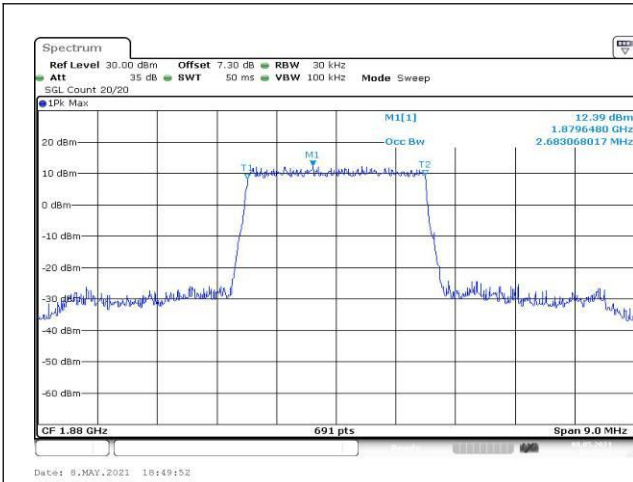


Fig.6





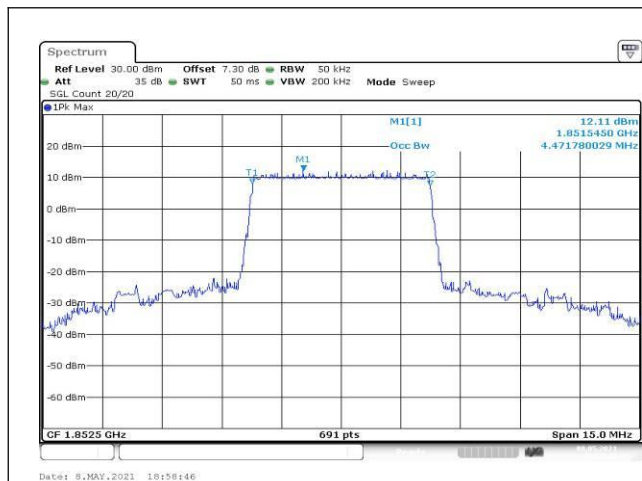


Fig.19

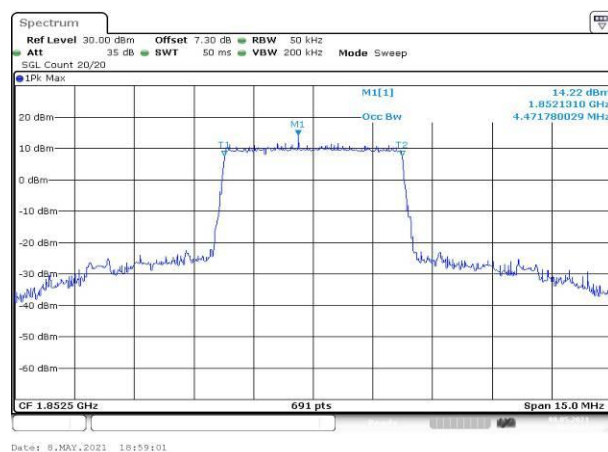


Fig.20

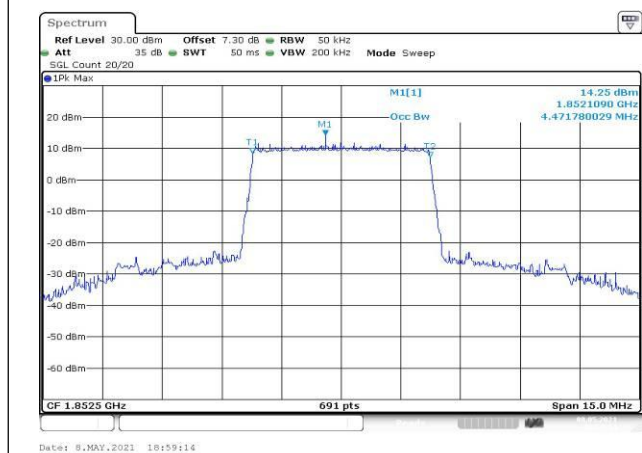


Fig.21

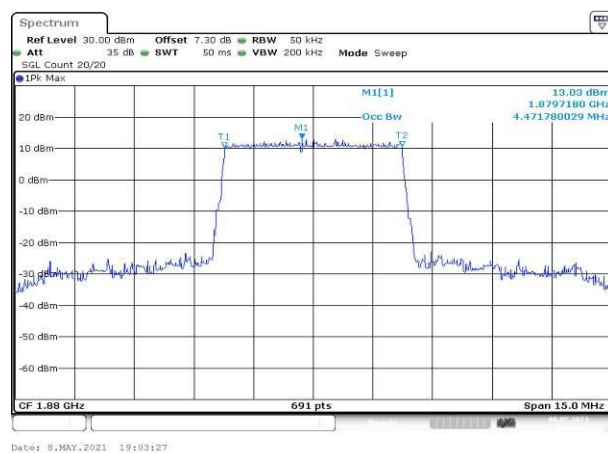


Fig.22

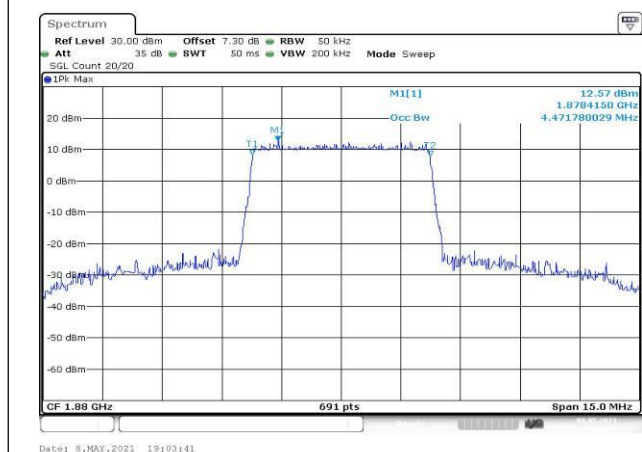


Fig.23

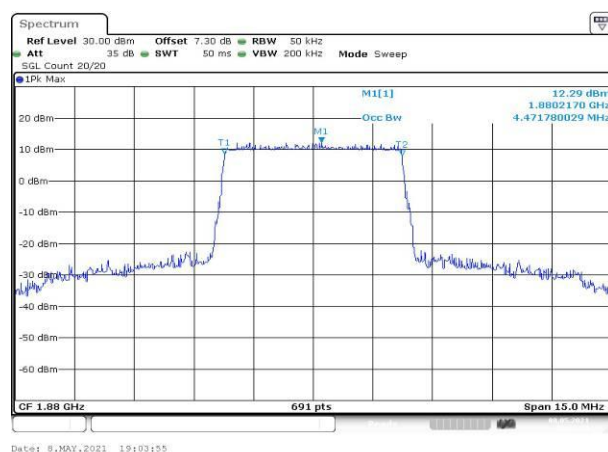


Fig.24

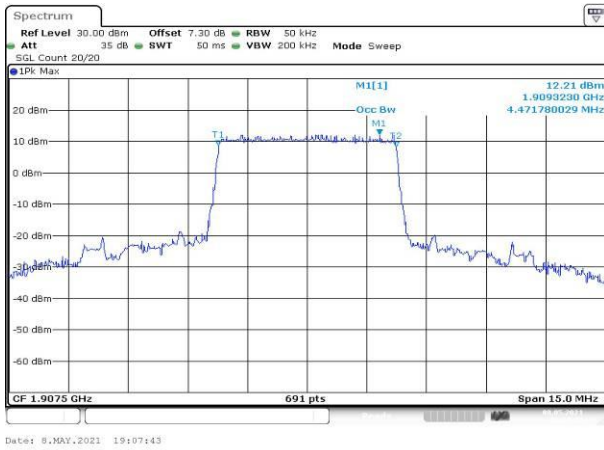


Fig.25

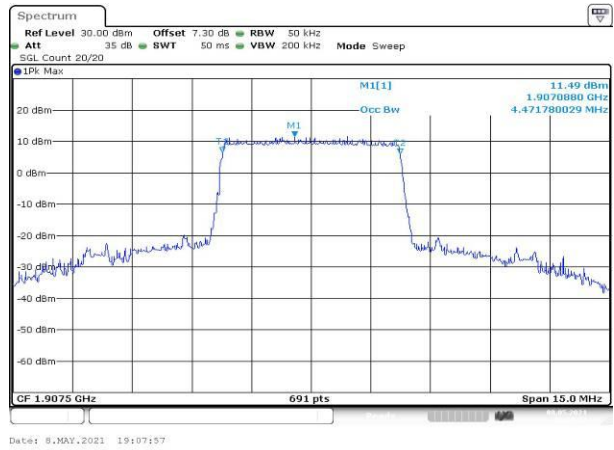


Fig.26

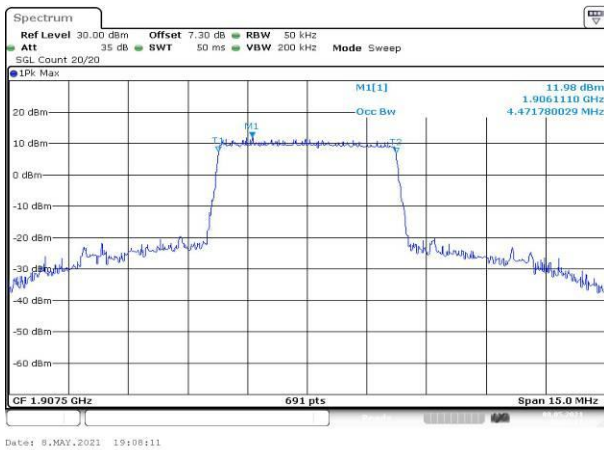


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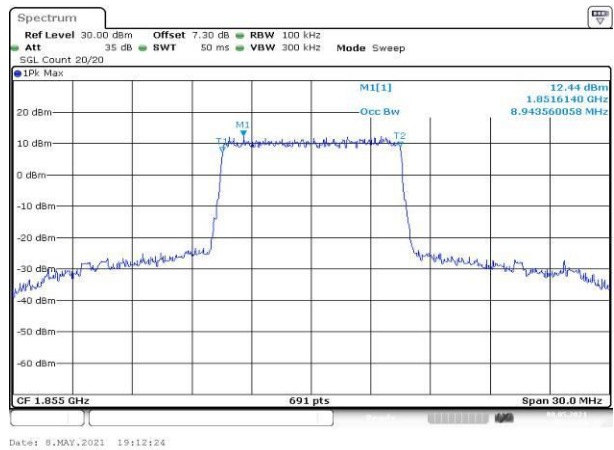


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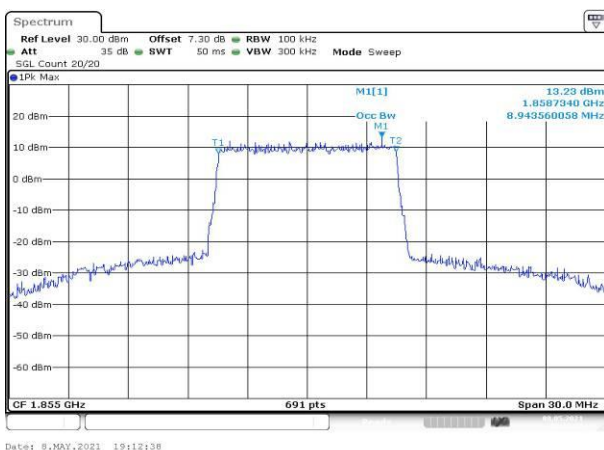


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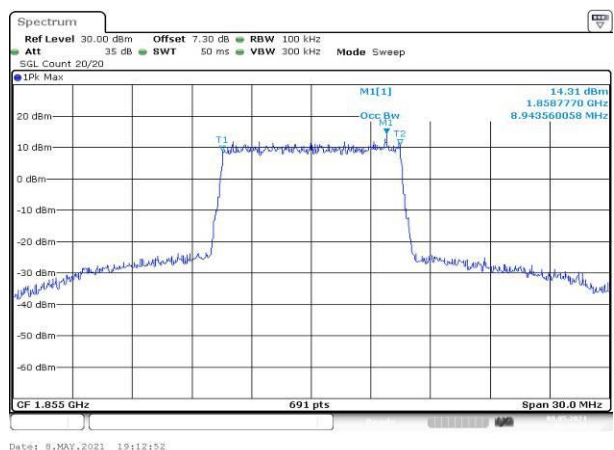


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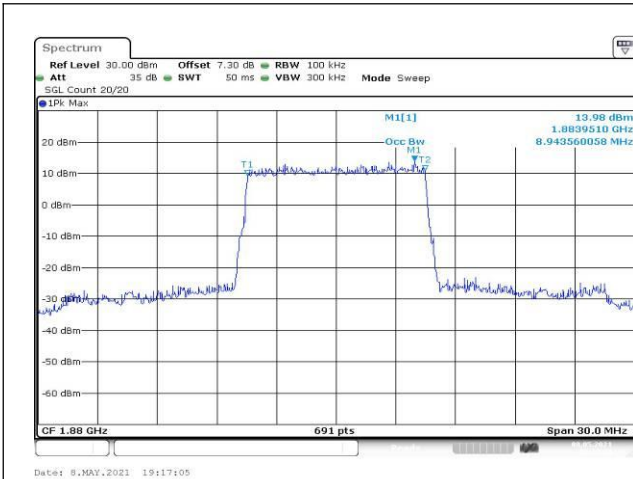


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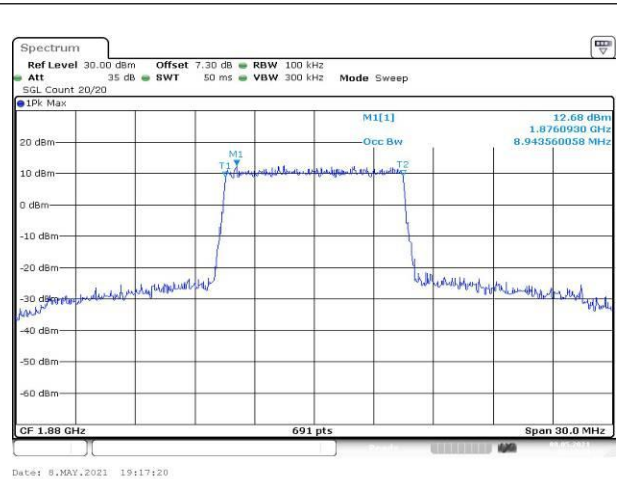


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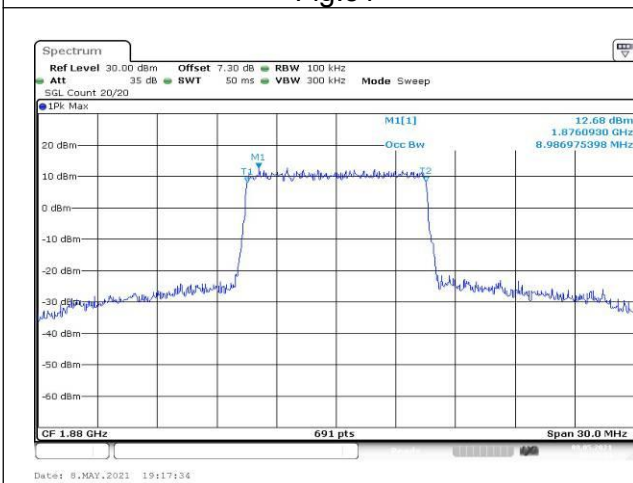


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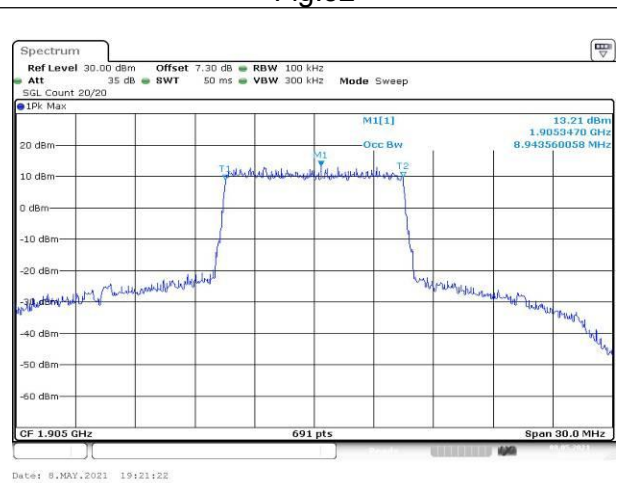


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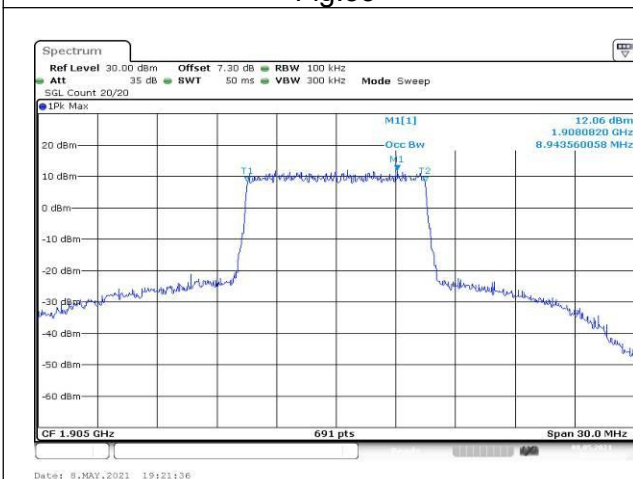


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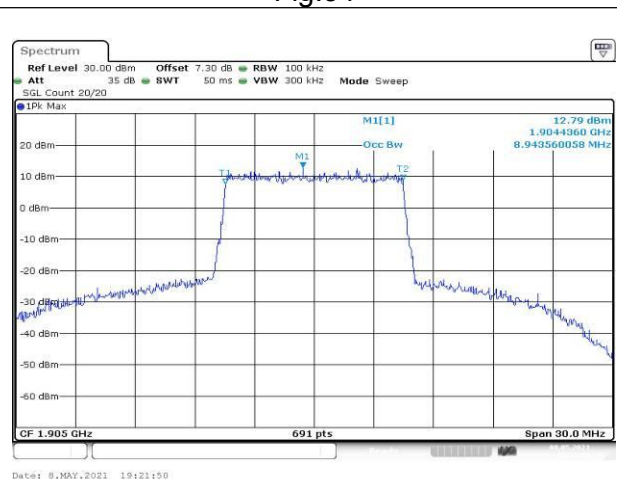


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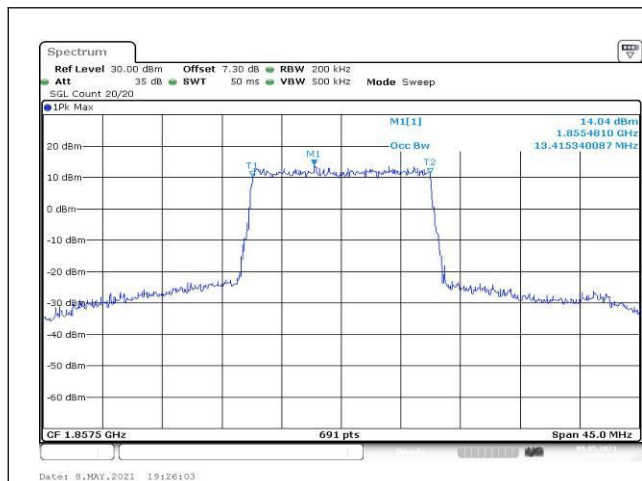


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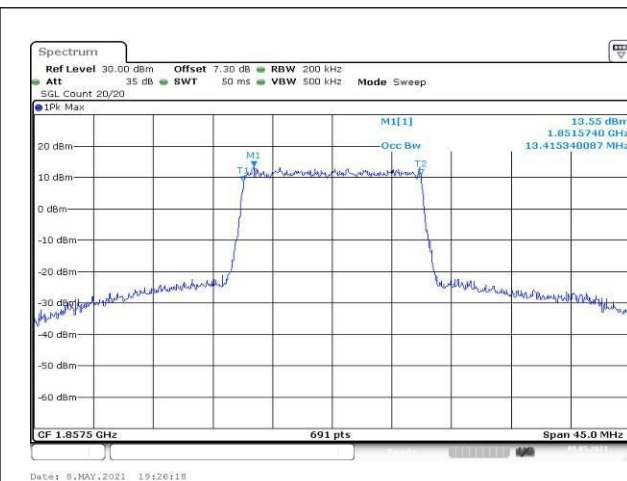


Fig.38



Fig.39



Fig.40

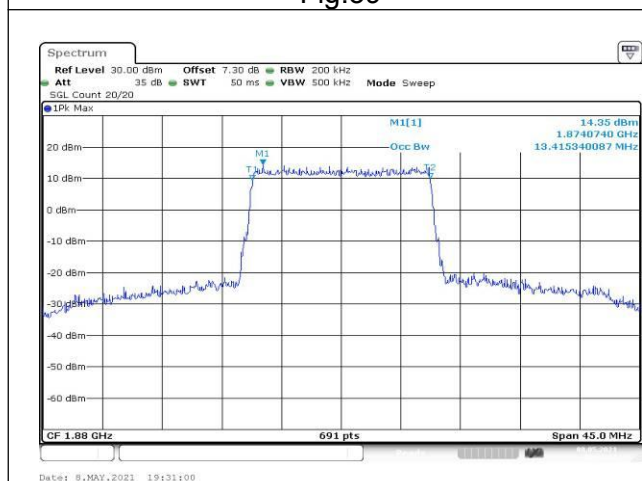


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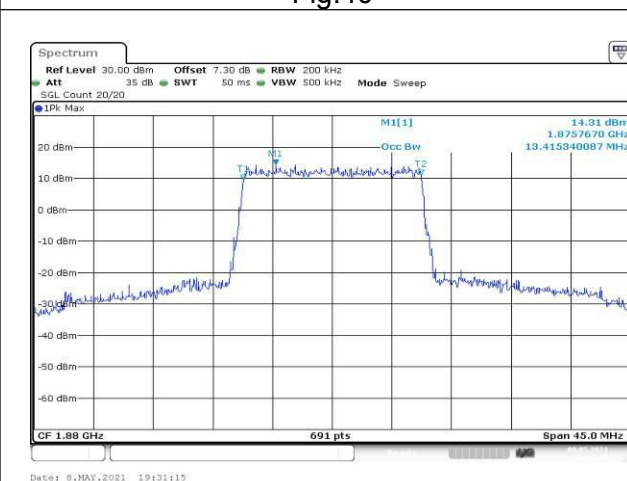


Fig.42

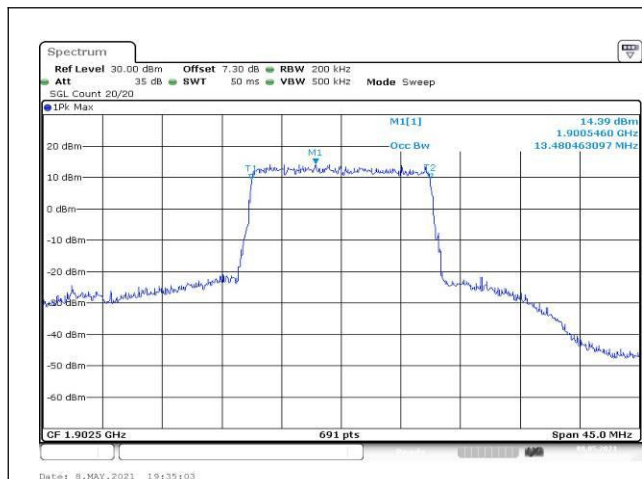


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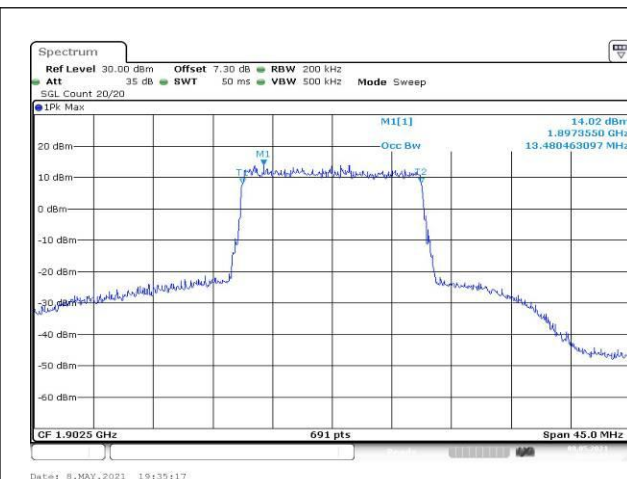


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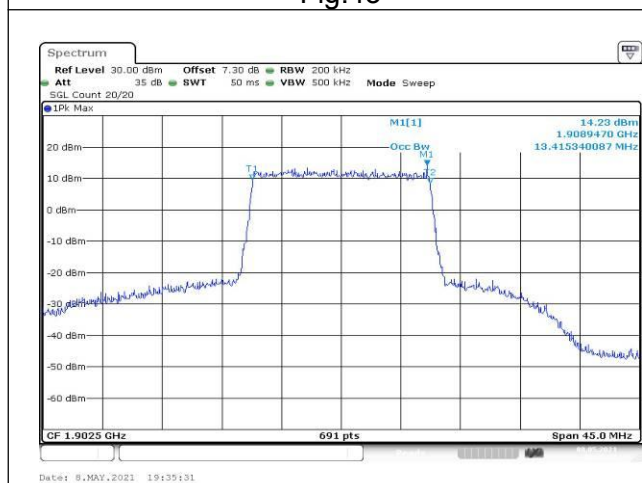


Fig.45

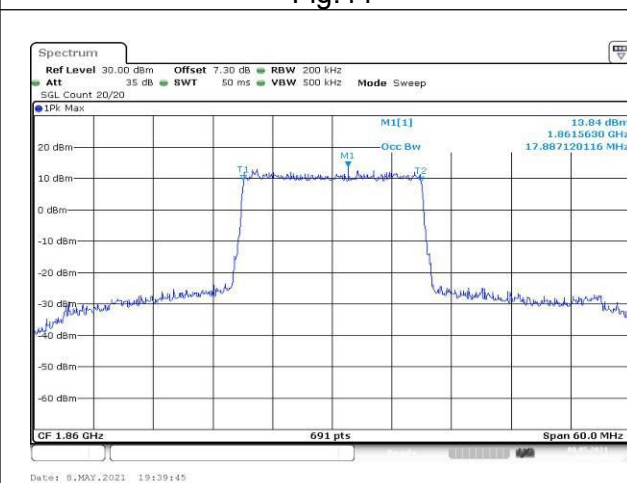


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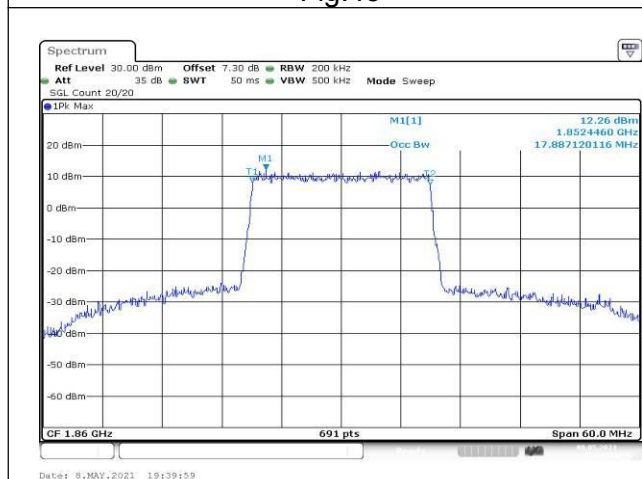


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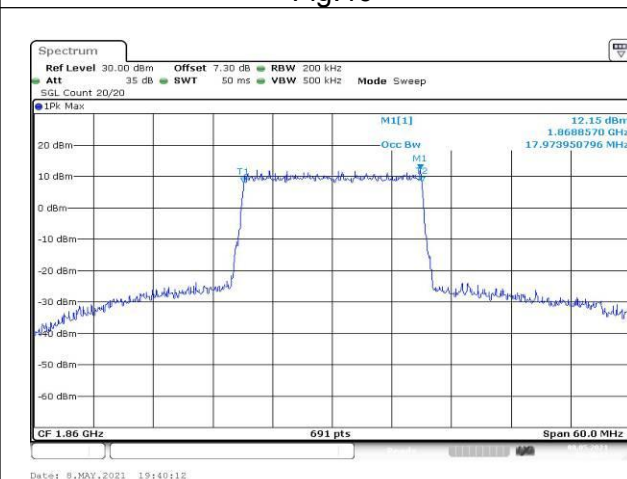


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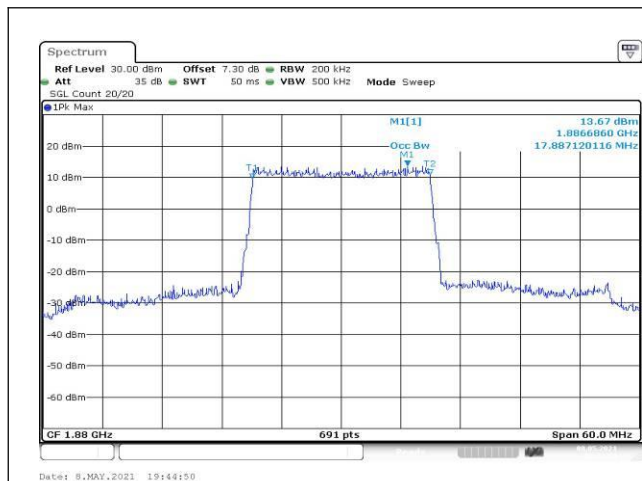


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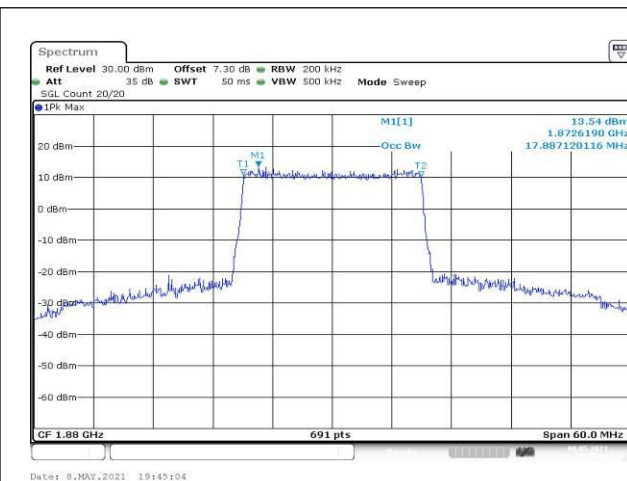


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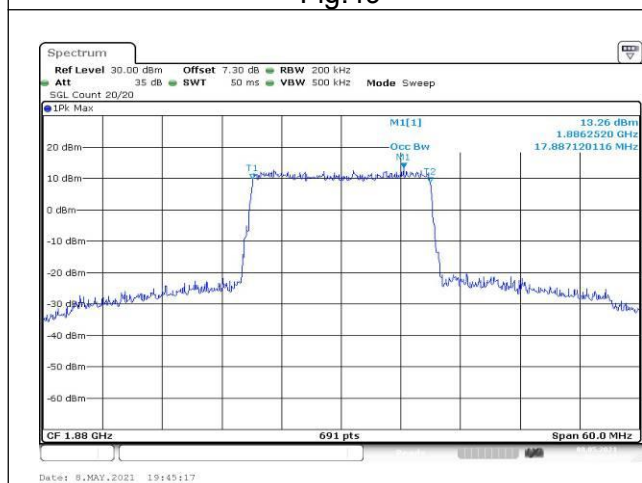


Fig.51

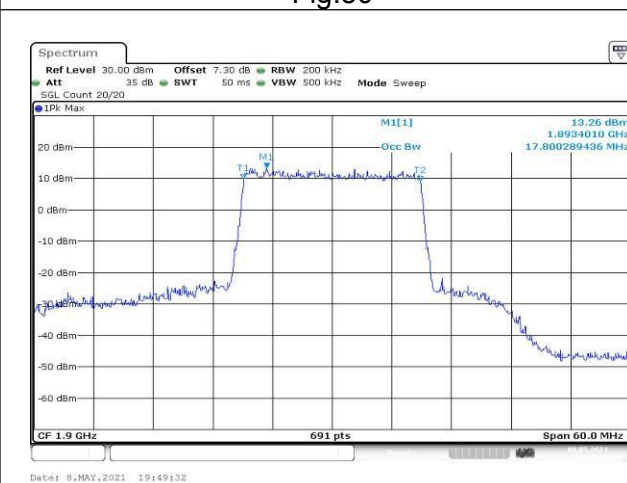


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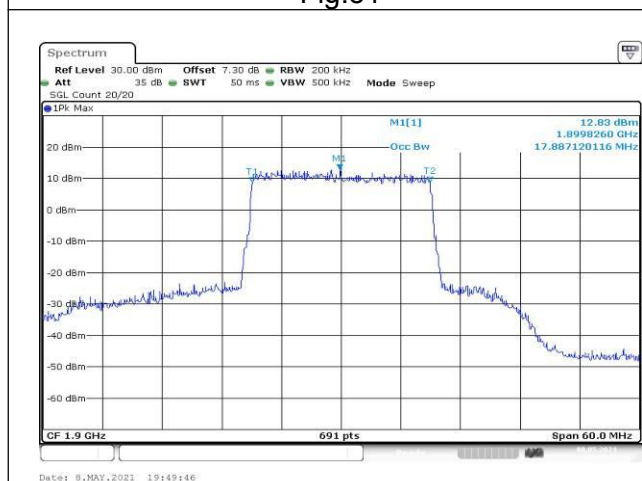


Fig.53



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	1.234	Fig.3
	1880	18900		6	0	1.240	Fig.4	1.222	Fig.5	1.228	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	2.996	Fig.10	2.957	Fig.11	2.996	Fig.12
	1880	18900		15	0	2.970	Fig.13	2.983	Fig.14	2.970	Fig.15
	1908.5	19185		15	0	2.983	Fig.16	3.022	Fig.17	2.996	Fig.18
	1852.5	18625	5	25	0	4.928	Fig.19	4.863	Fig.20	4.906	Fig.21
	1880	18900		25	0	4.884	Fig.22	4.906	Fig.23	4.884	Fig.24
	1907.5	19175		25	0	4.906	Fig.25	4.906	Fig.26	4.928	Fig.27
	1855	18650	10	50	0	9.682	Fig.28	9.768	Fig.29	9.682	Fig.30
	1880	18900		50	0	9.682	Fig.31	9.682	Fig.32	9.812	Fig.33
	1905	19150		50	0	9.682	Fig.34	9.768	Fig.35	9.725	Fig.36
	1857.5	18675	15	75	0	14.718	Fig.37	14.718	Fig.38	14.783	Fig.39
	1880	18900		75	0	14.718	Fig.40	14.718	Fig.41	14.718	Fig.42
	1902.5	19125		75	0	14.718	Fig.43	14.588	Fig.44	14.783	Fig.45
	1860	18700	20	100	0	19.363	Fig.46	19.363	Fig.47	19.363	Fig.48
	1880	18900		100	0	19.363	Fig.49	19.537	Fig.50	19.363	Fig.51
	1900	19100		100	0	18.408	Fig.52	19.363	Fig.53	19.363	Fig.54

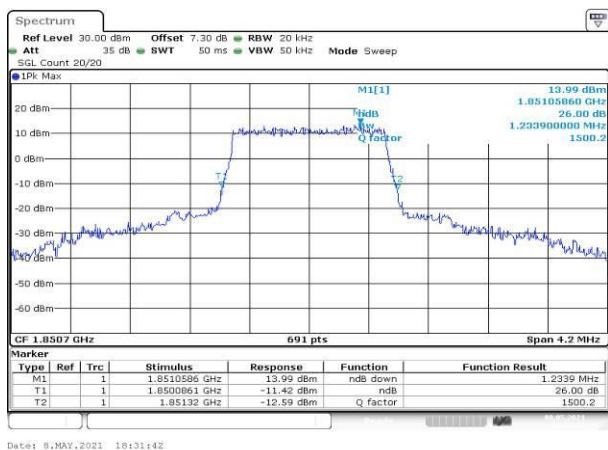


Fig.1

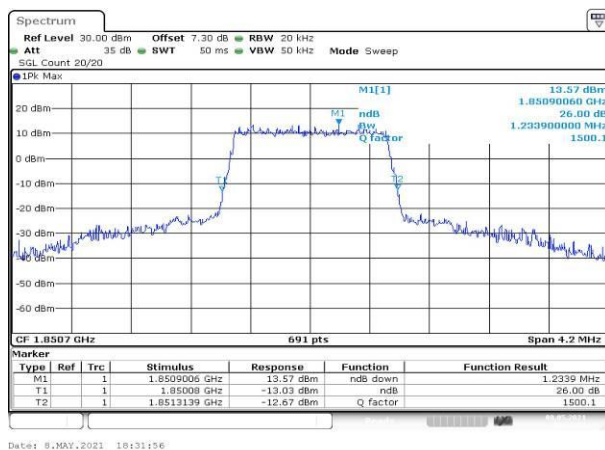


Fig.2

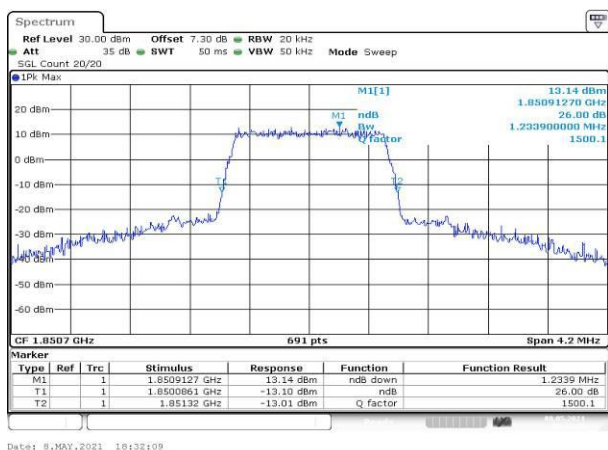


Fig.3

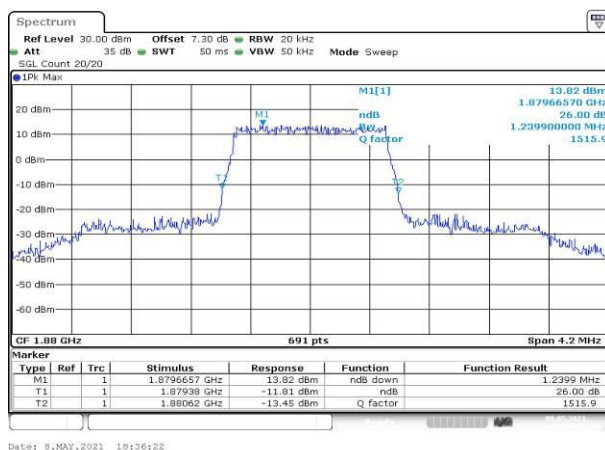


Fig.4

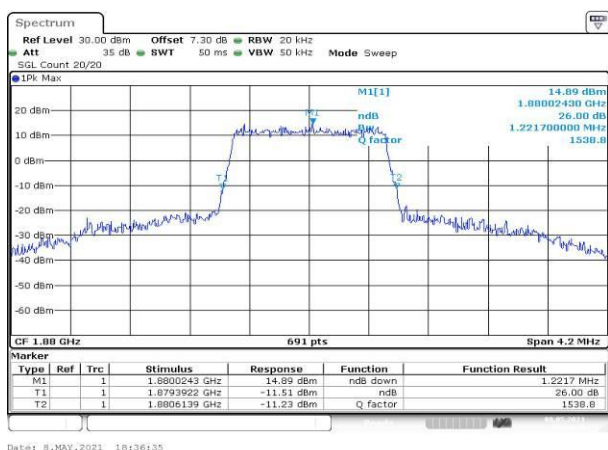


Fig.5

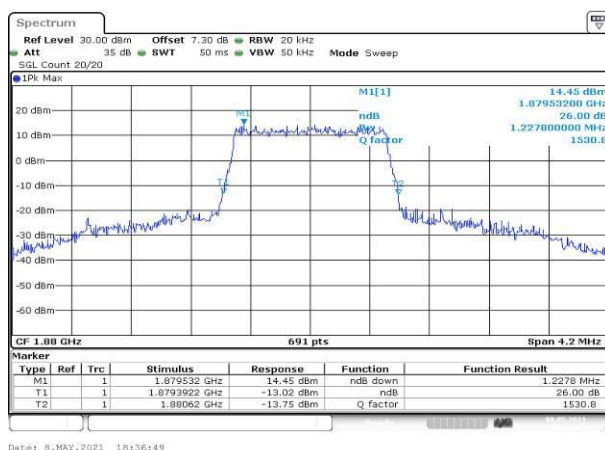


Fig.6

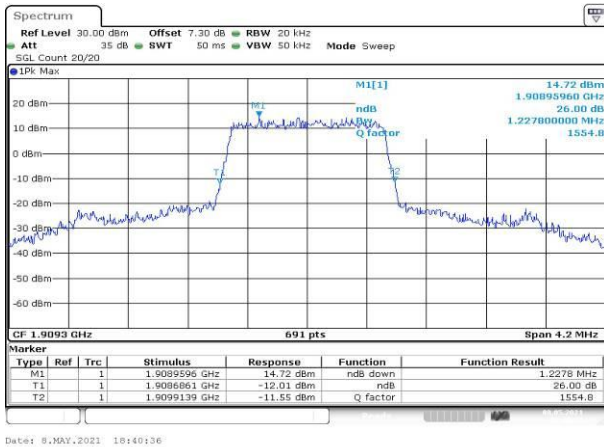


Fig.7

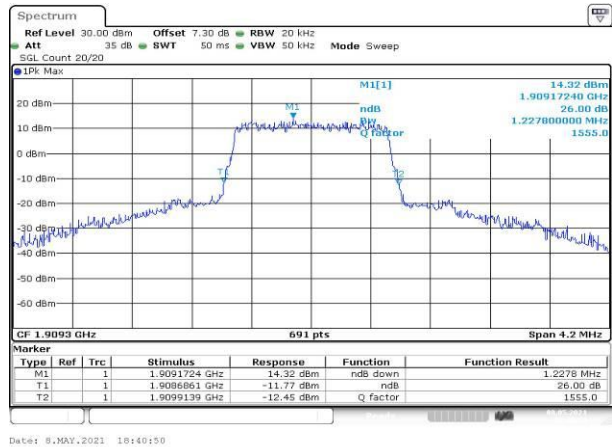


Fig.8

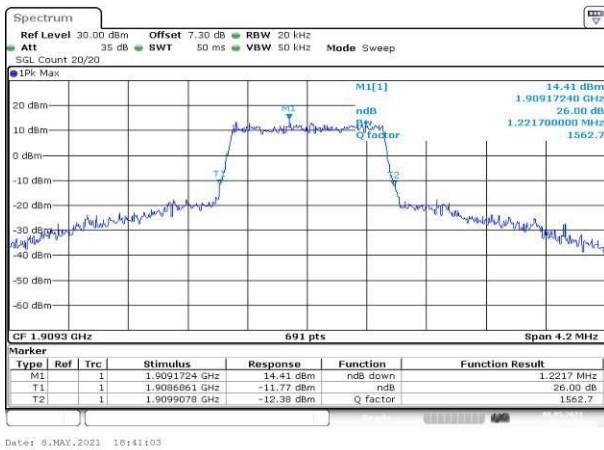


Fig.9

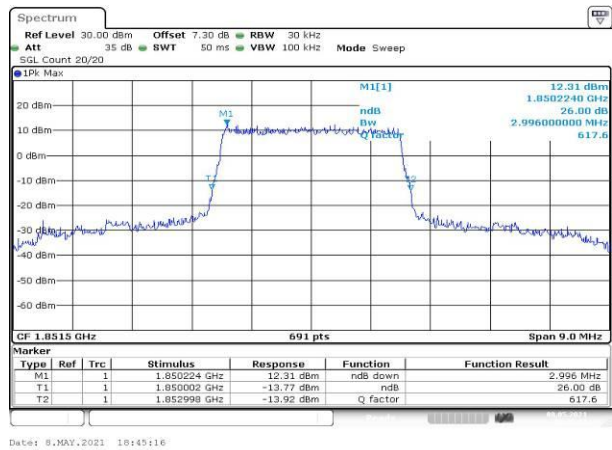


Fig.10

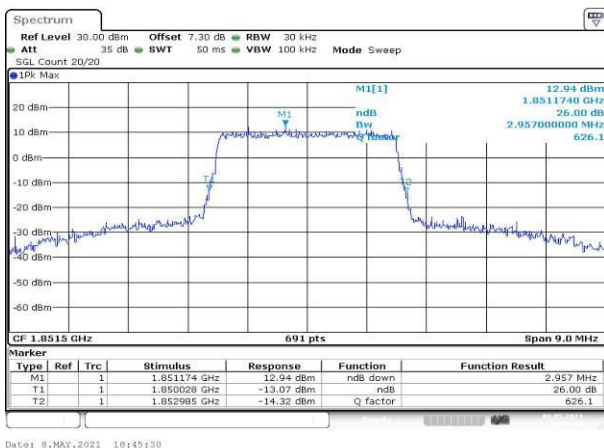


Fig.11

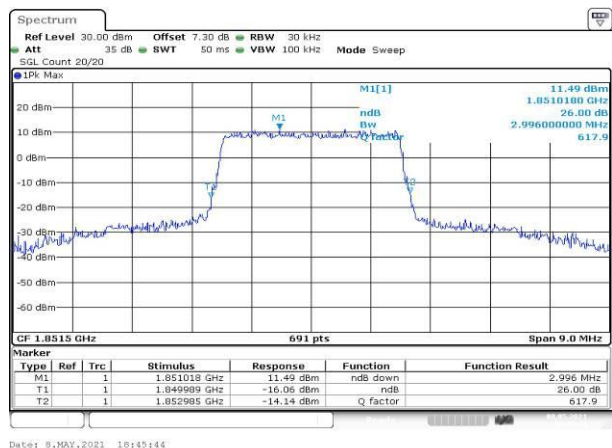
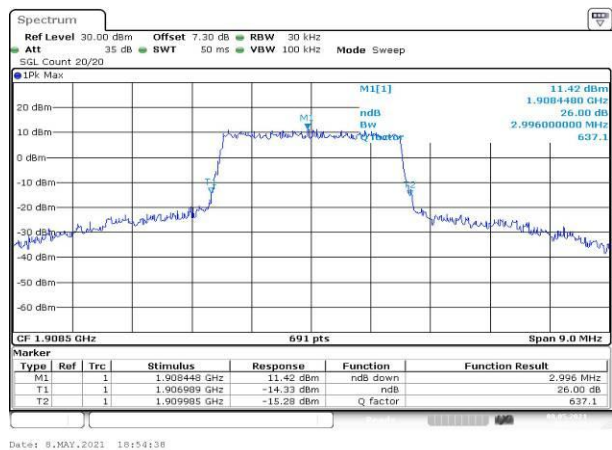
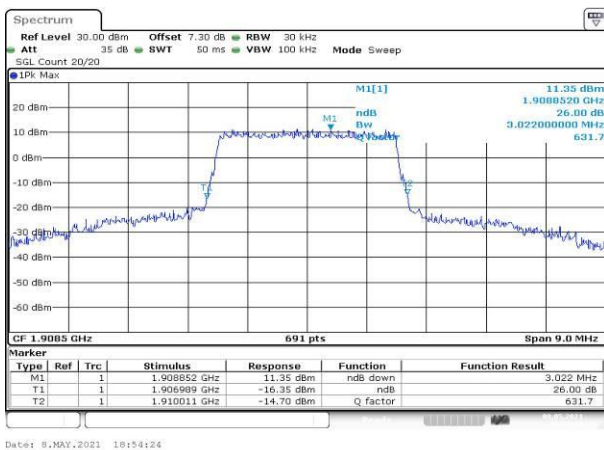
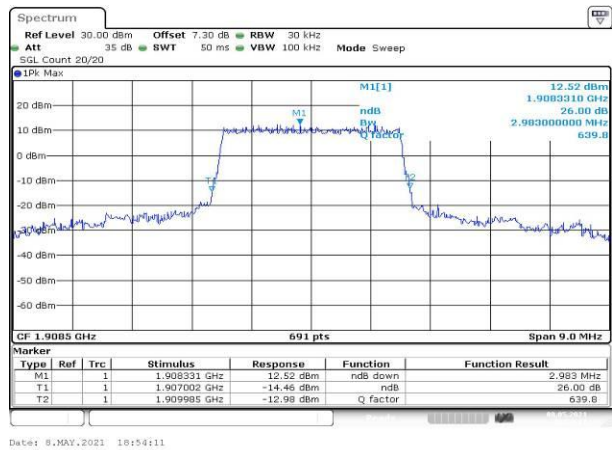
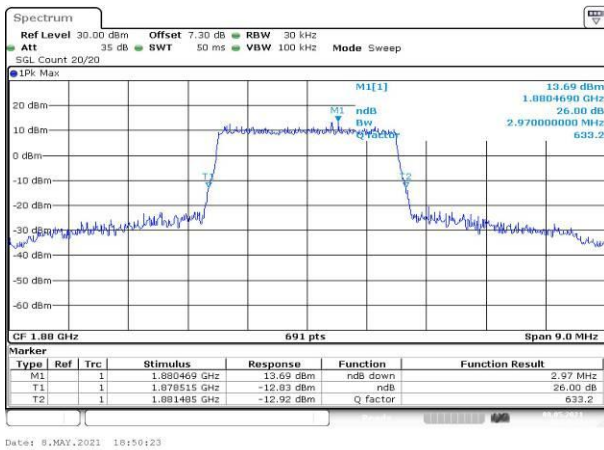
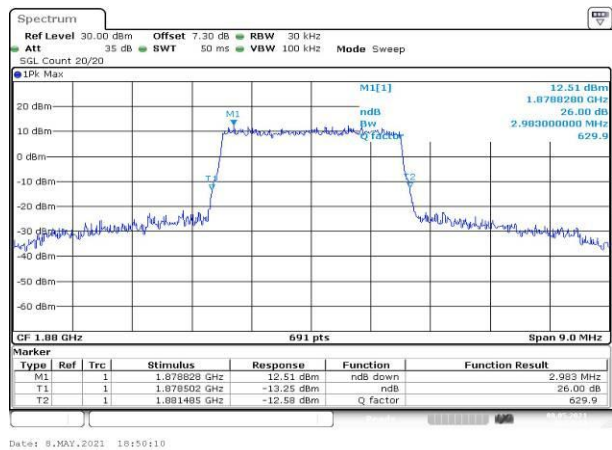
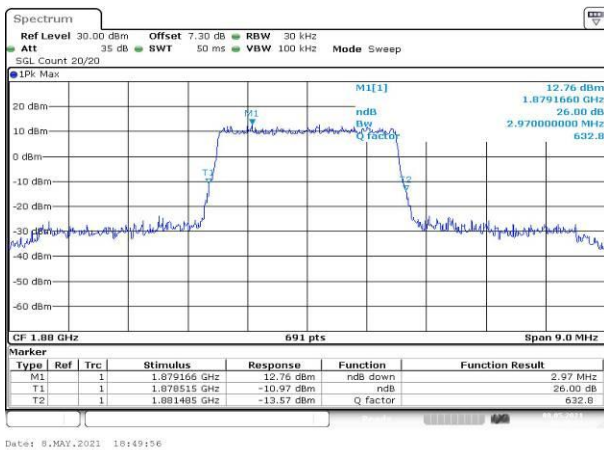


Fig.12



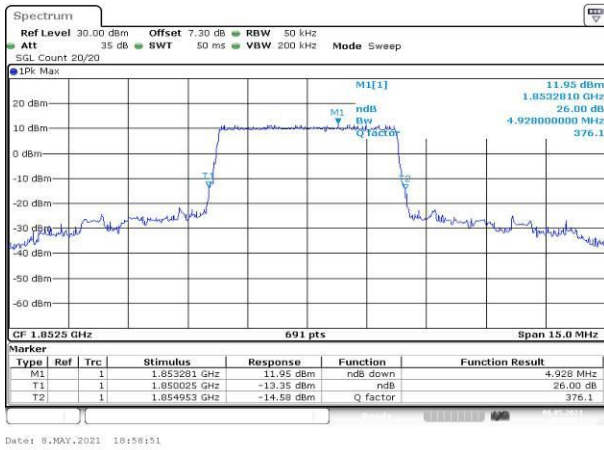


Fig.19

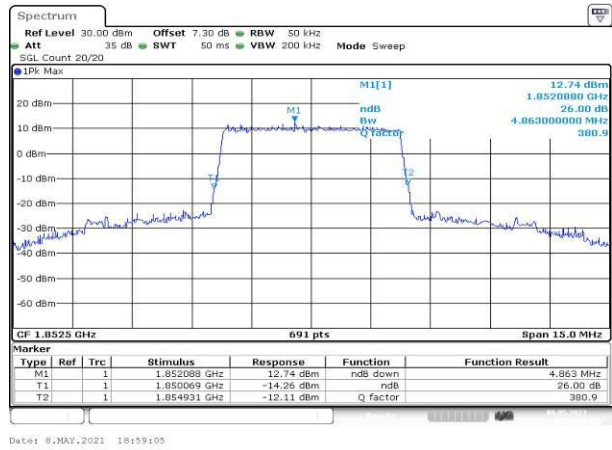


Fig.20

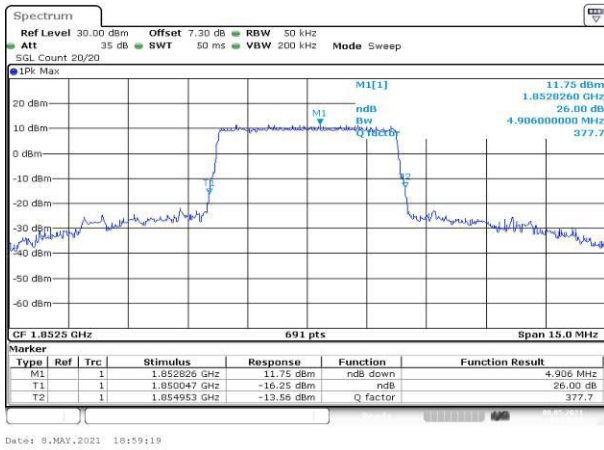


Fig.21

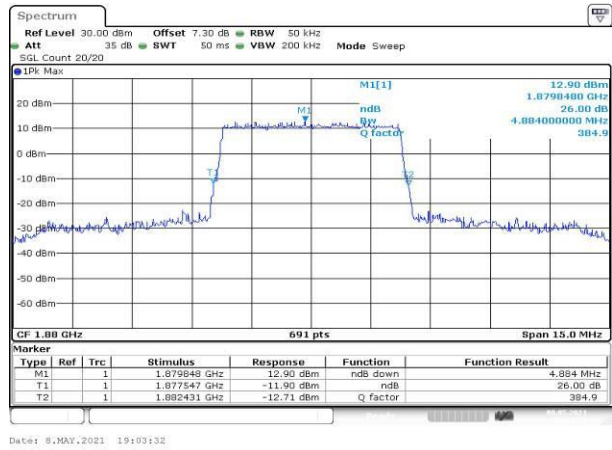


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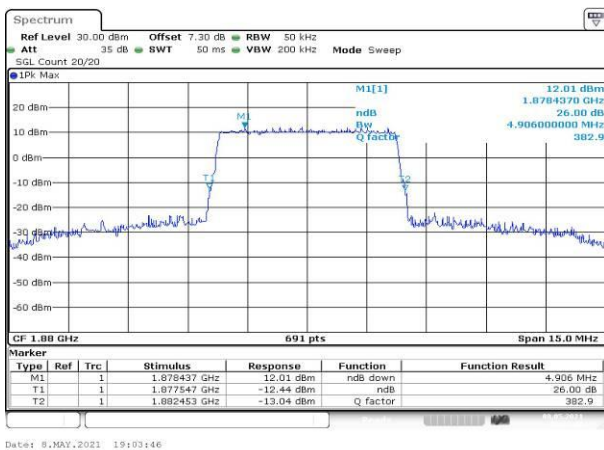


Fig.23

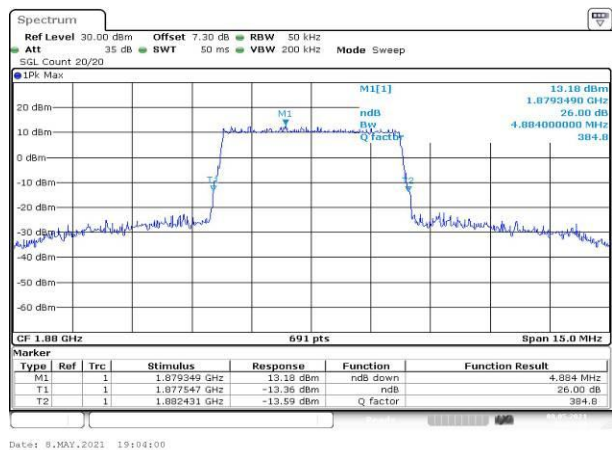


Fig.24

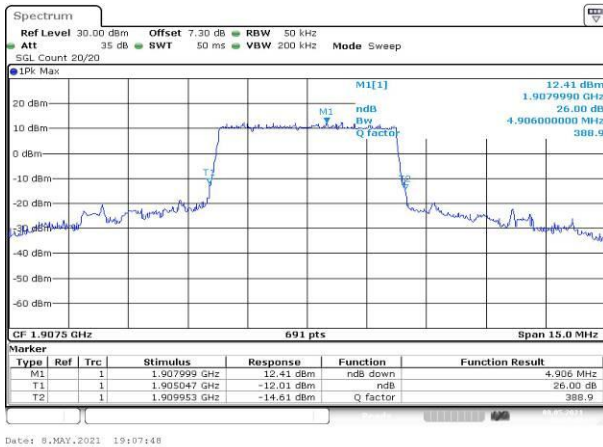


Fig.25

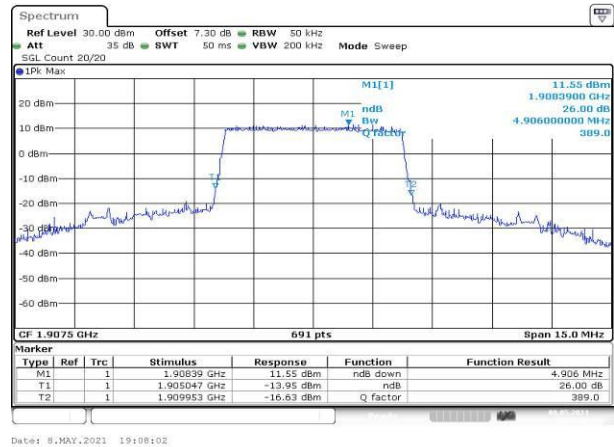


Fig.26

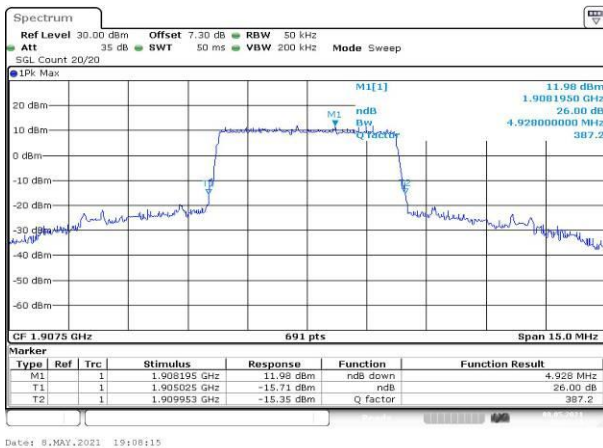


Fig.27

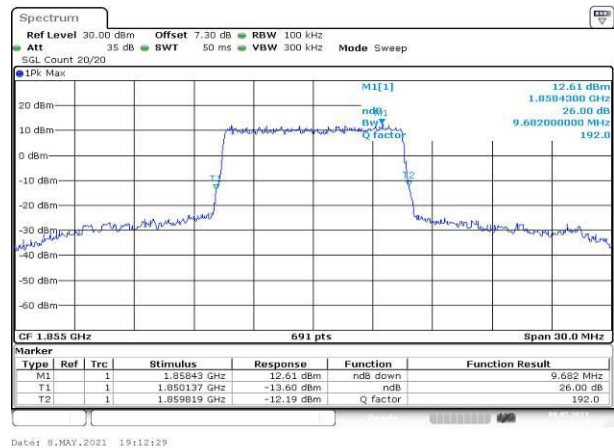


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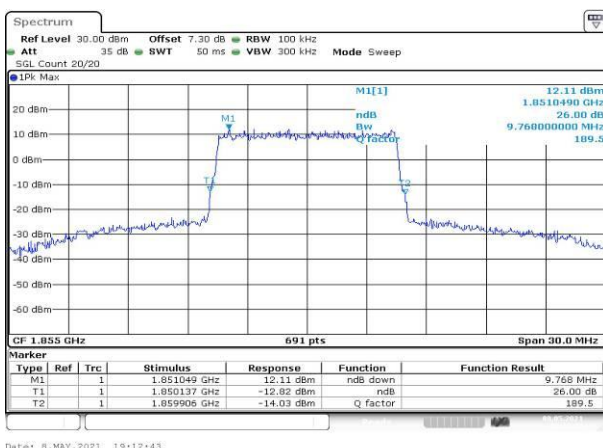


Fig.29

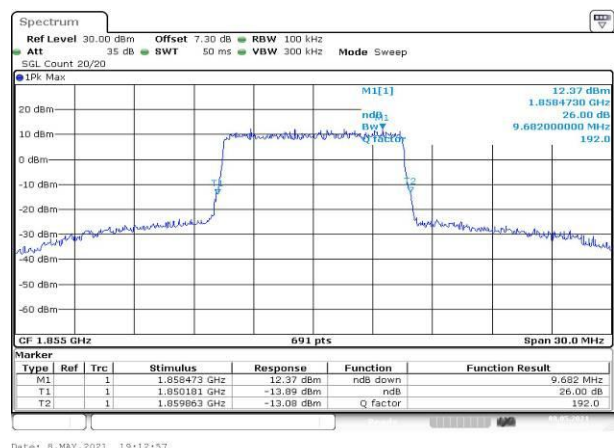
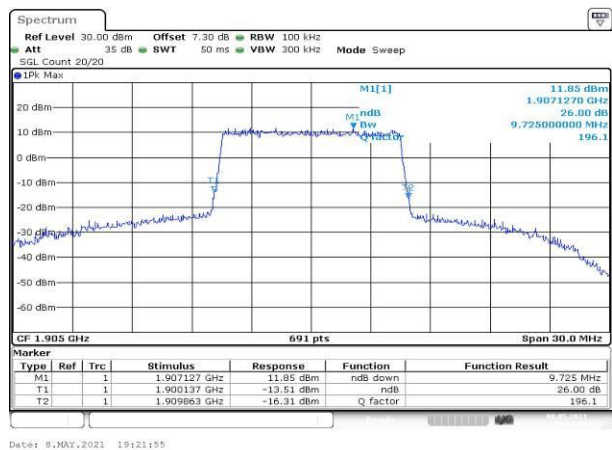
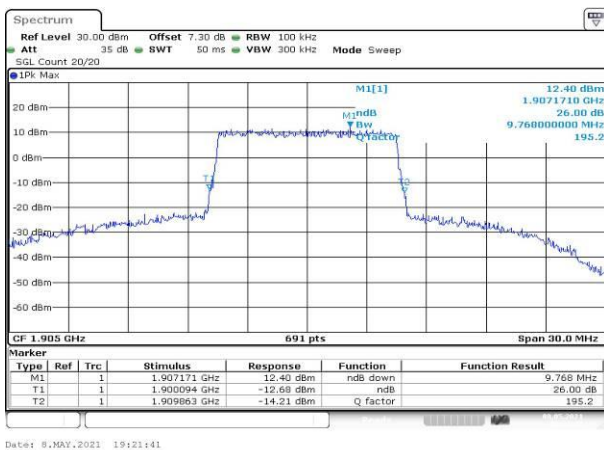
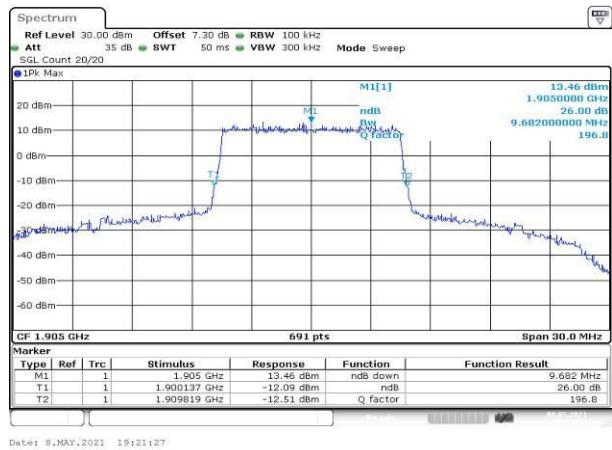
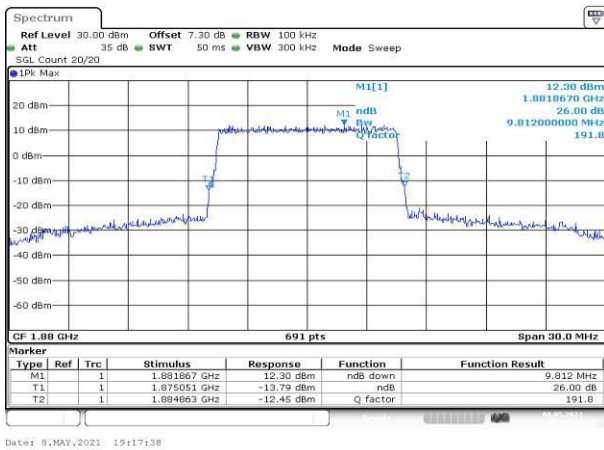
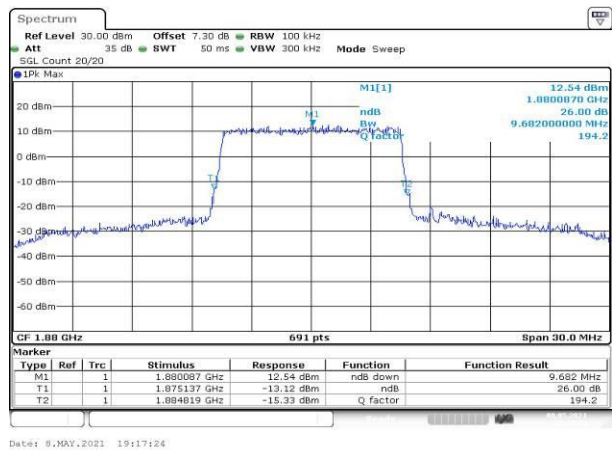
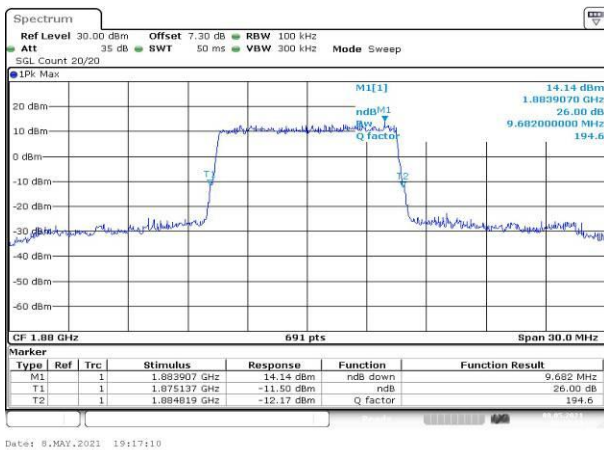


Fig.30



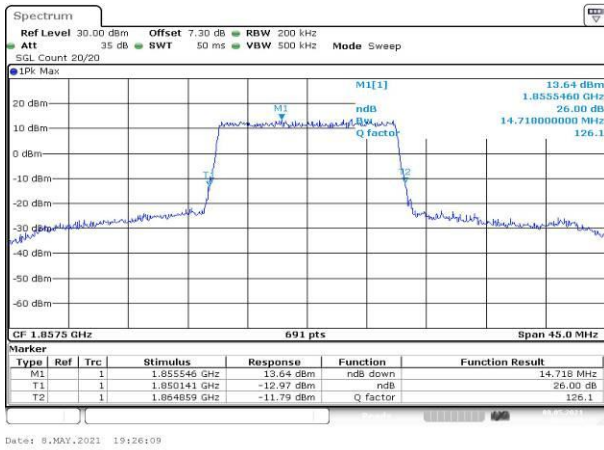


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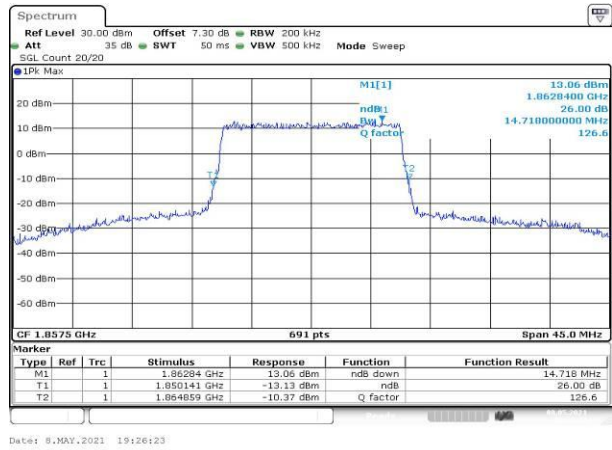


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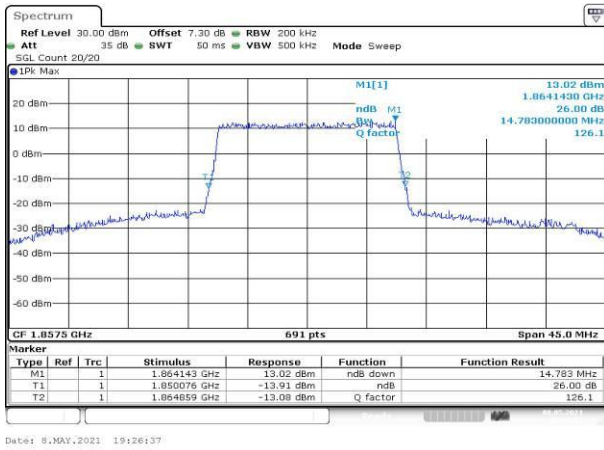


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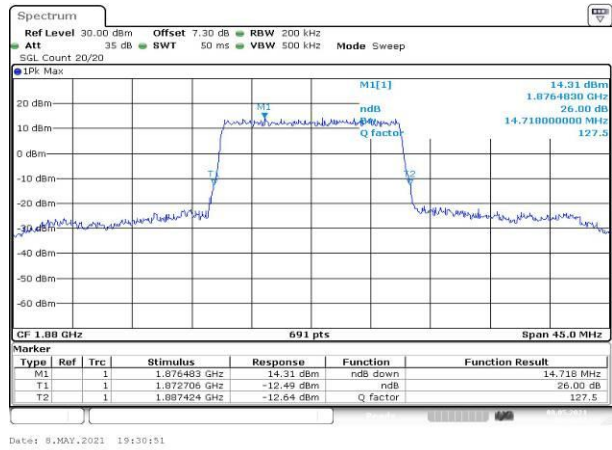


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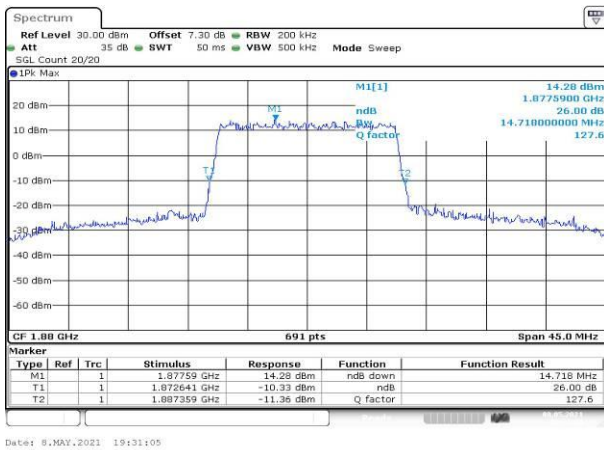


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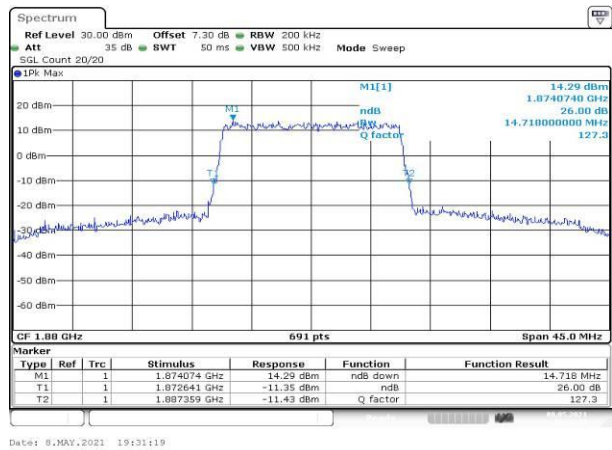


Fig.42