

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

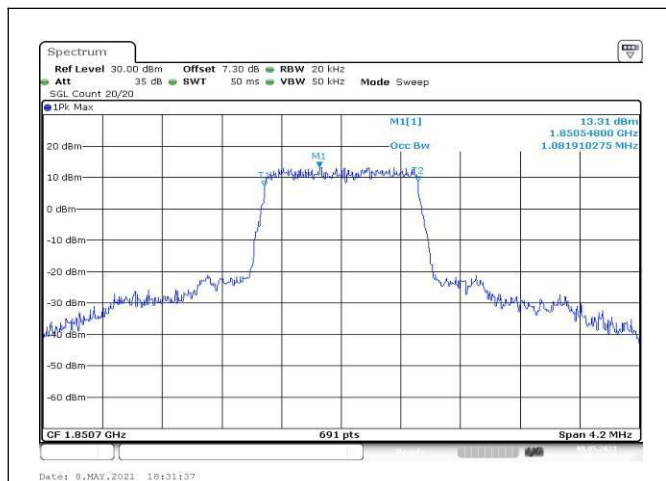


Fig.1

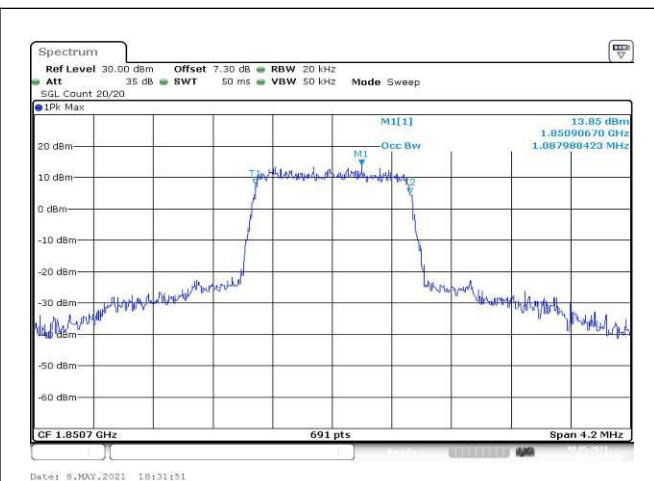


Fig.2

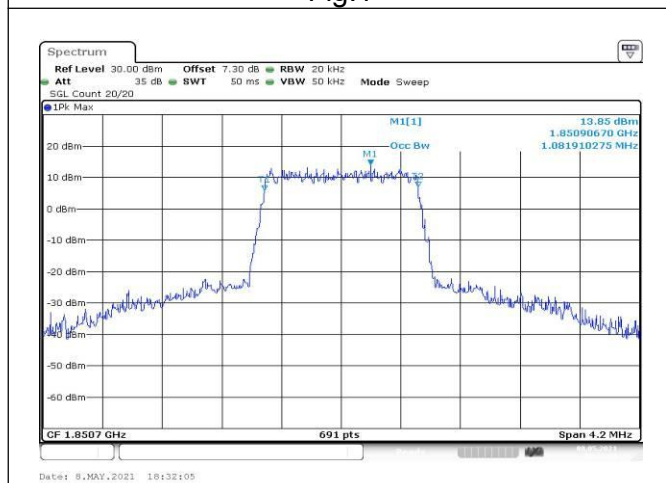


Fig.3

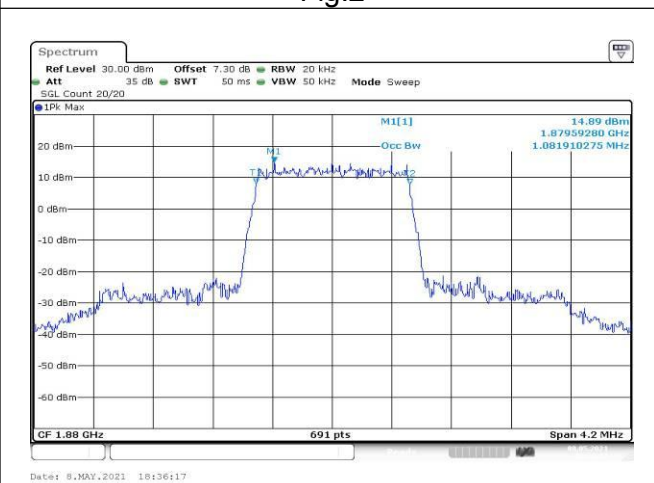


Fig.4

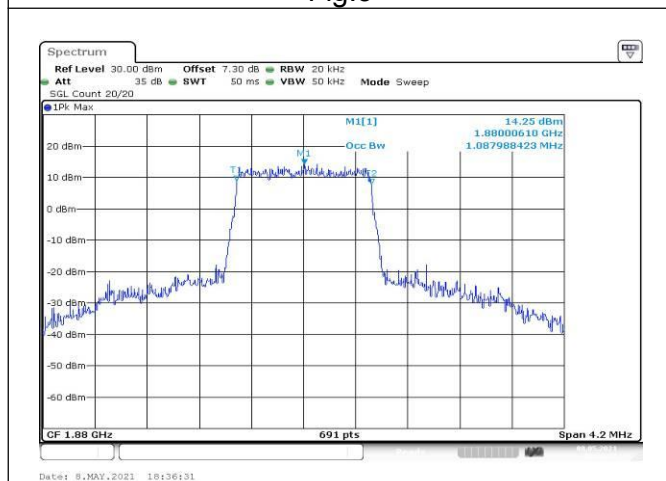


Fig.5

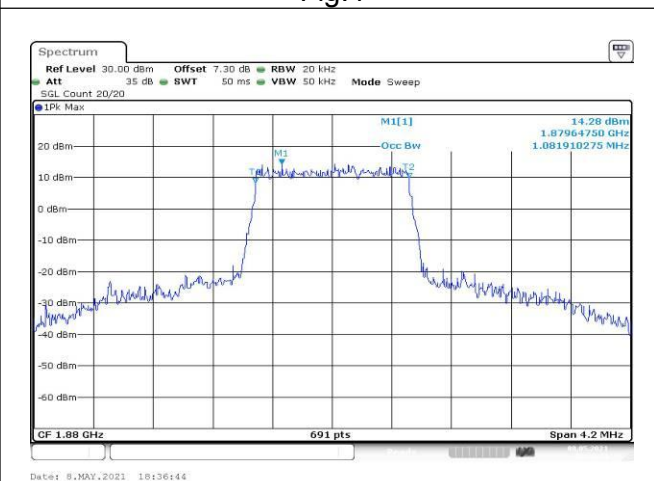
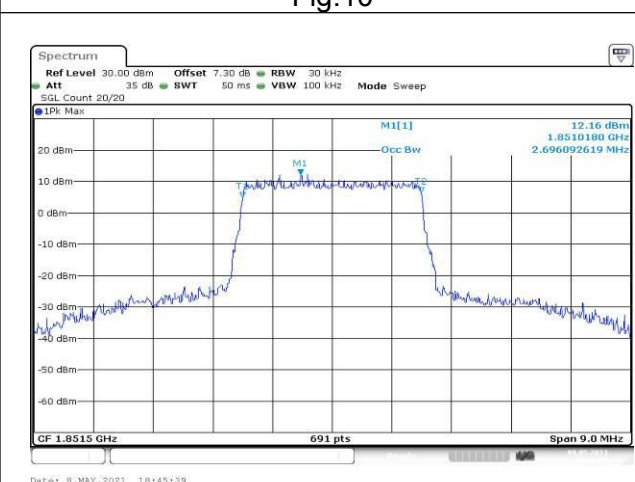
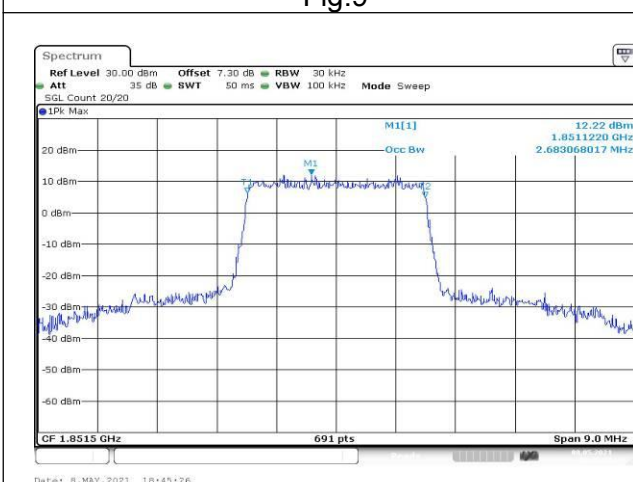
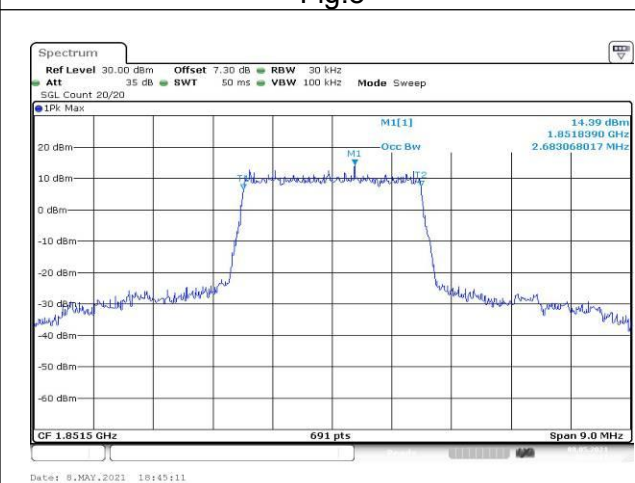
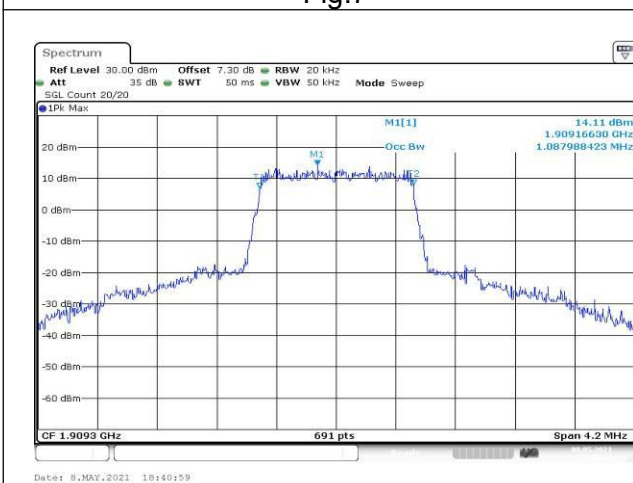
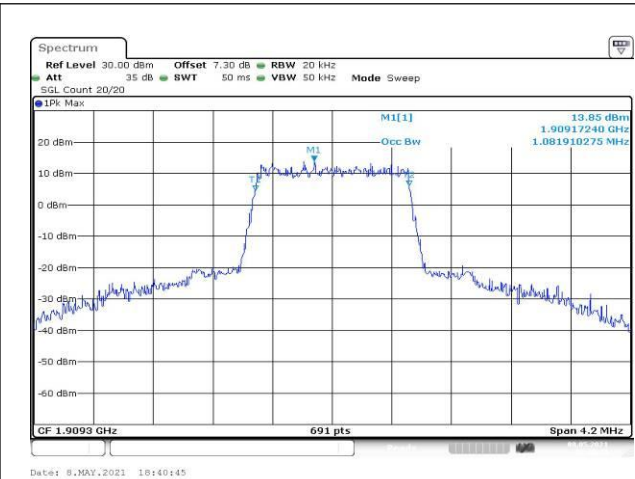
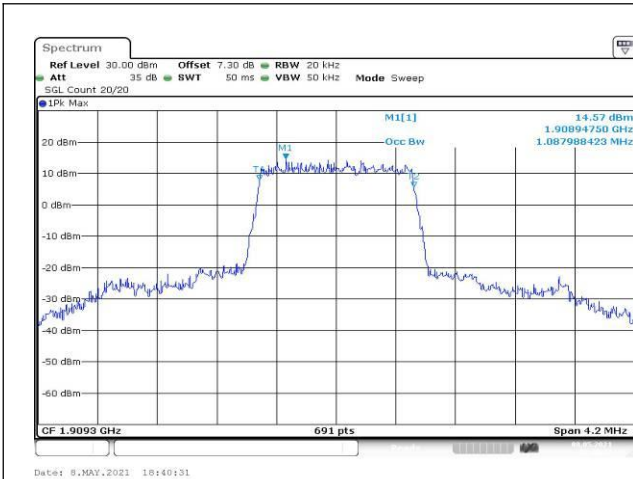
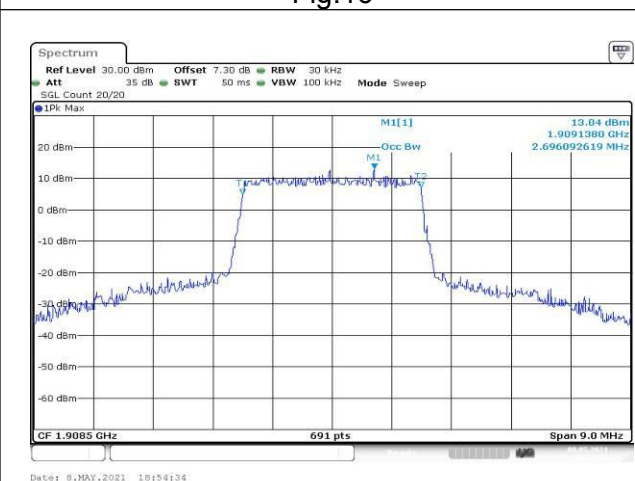
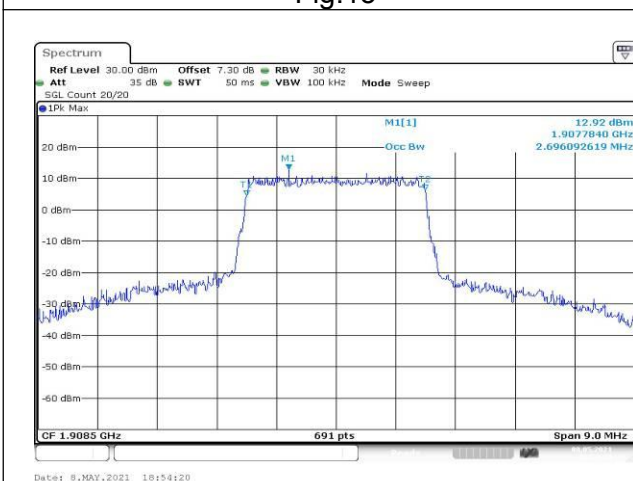
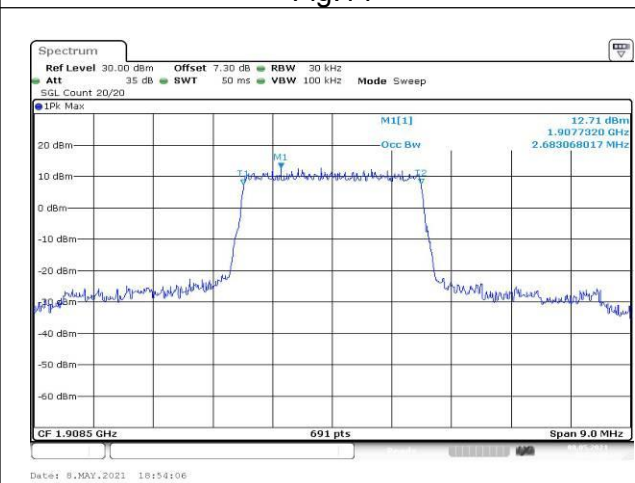
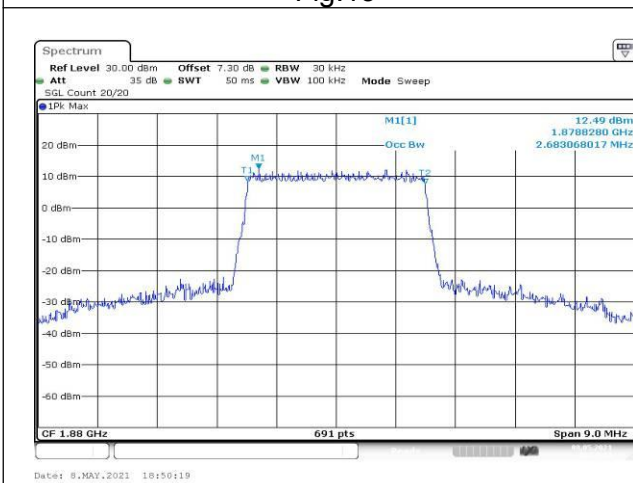
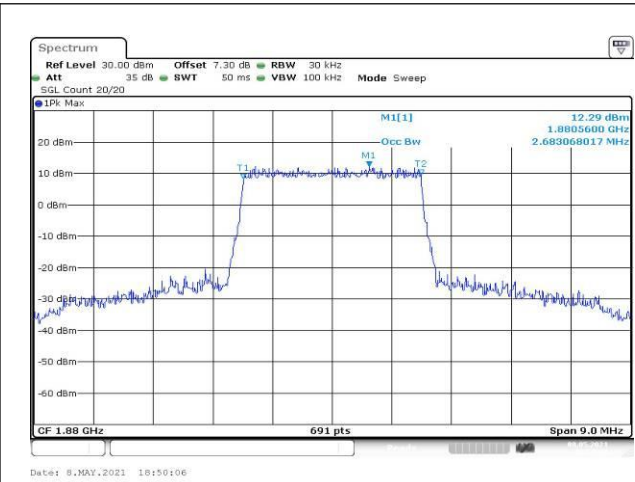
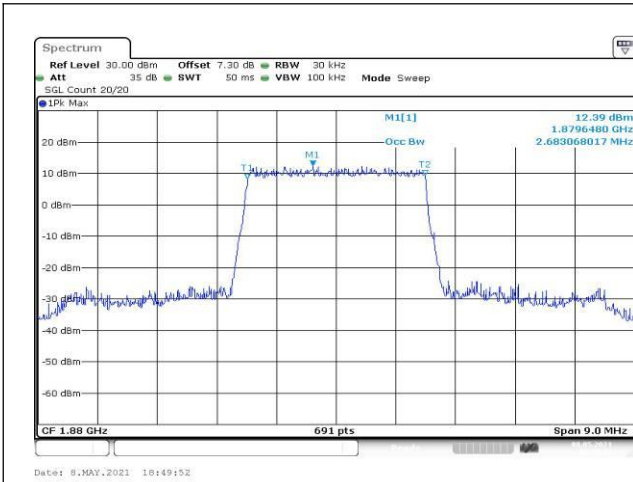


Fig.6





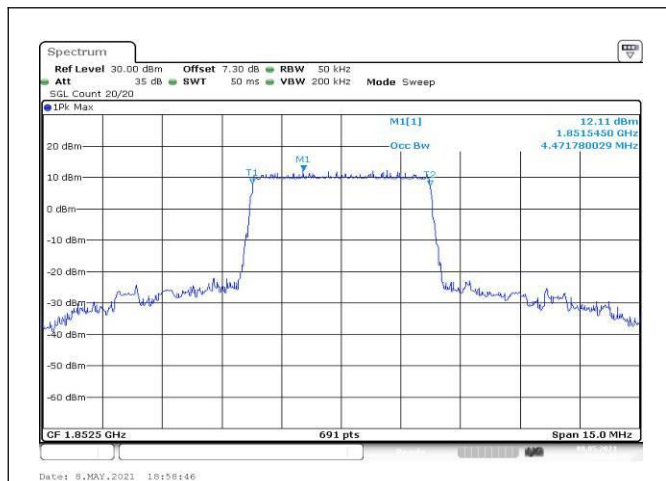


Fig.19

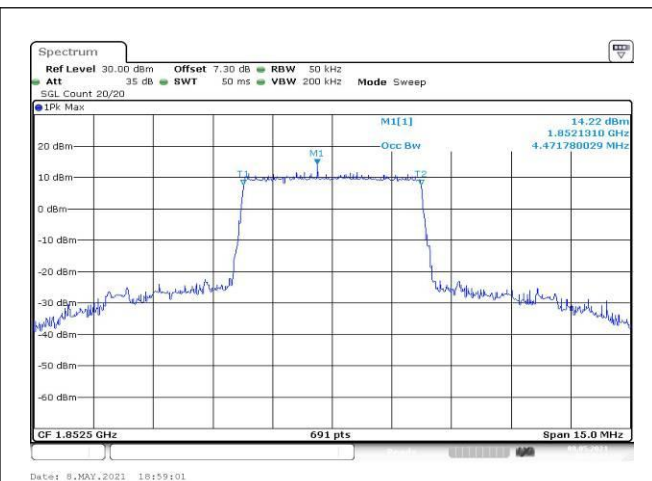


Fig.20

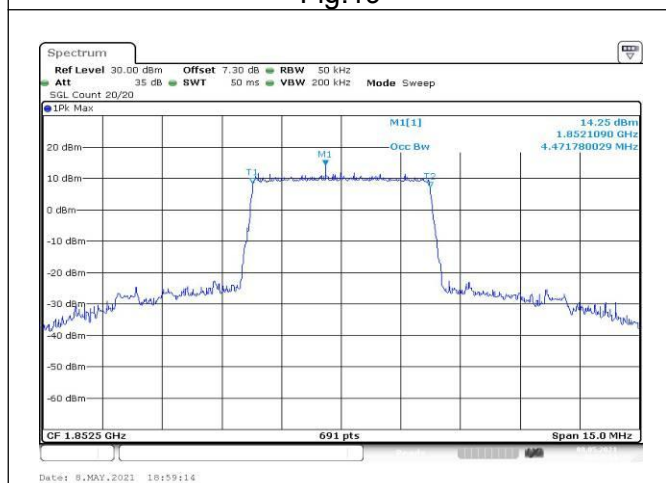


Fig.21

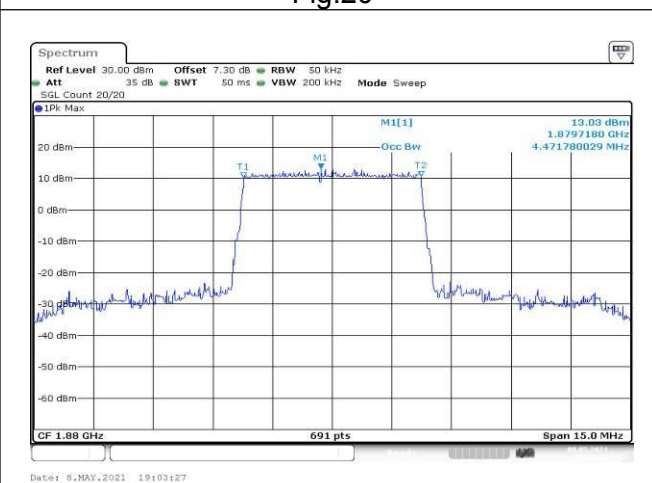


Fig.22

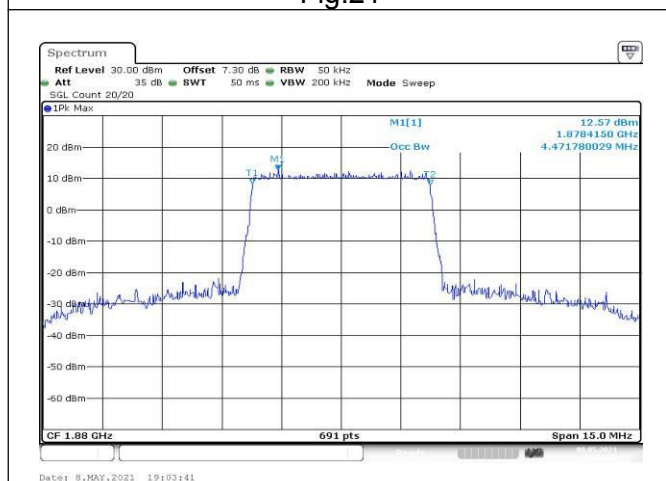


Fig.23

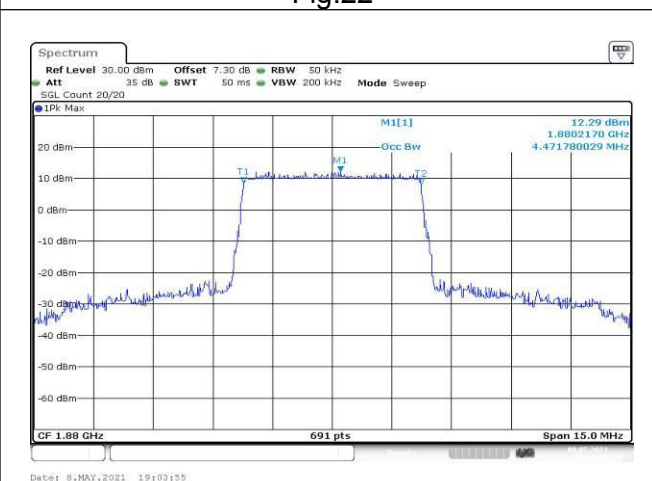


Fig.24

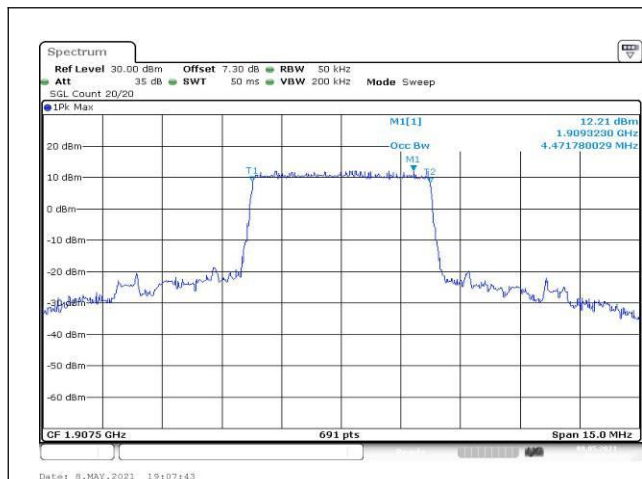


Fig.25

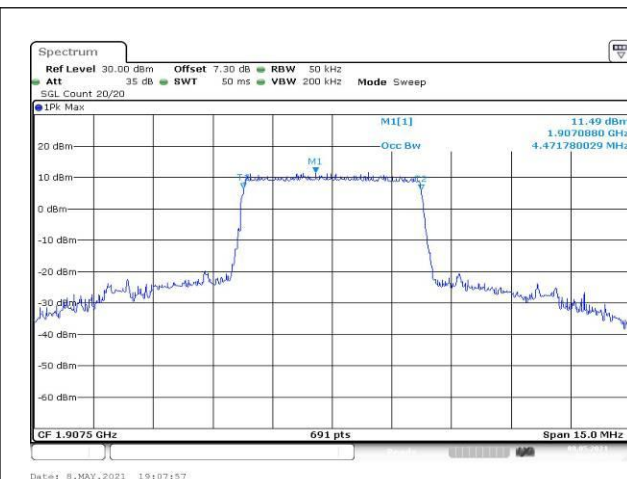


Fig.26

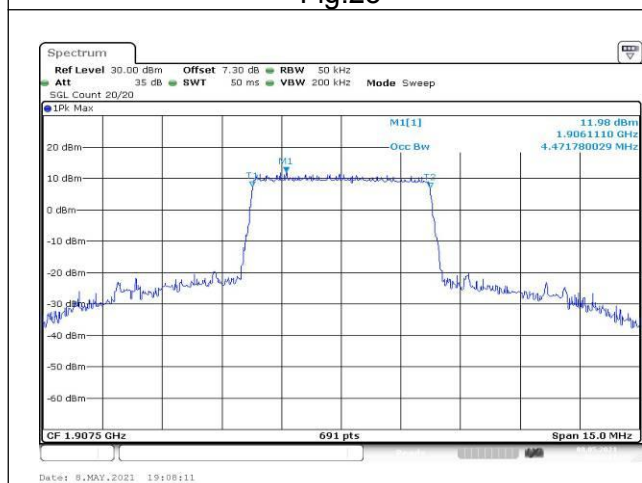


Fig.27

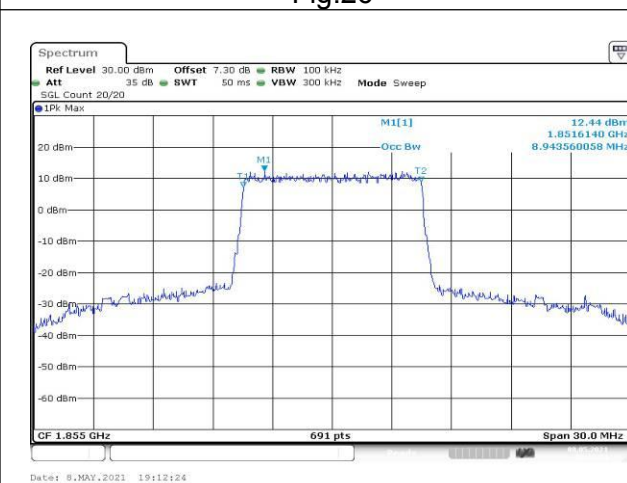


Fig.28

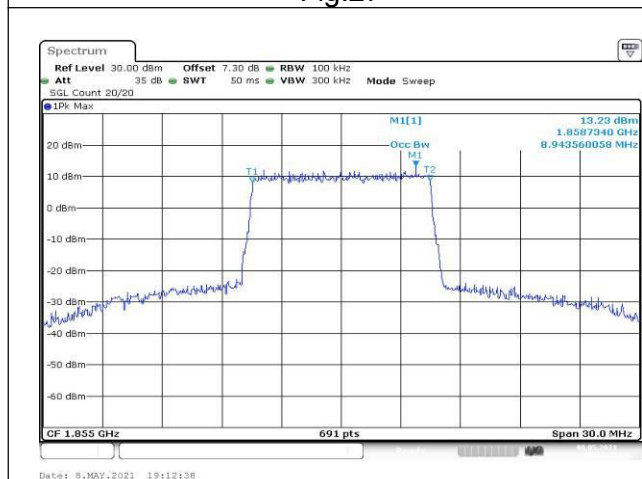


Fig.29

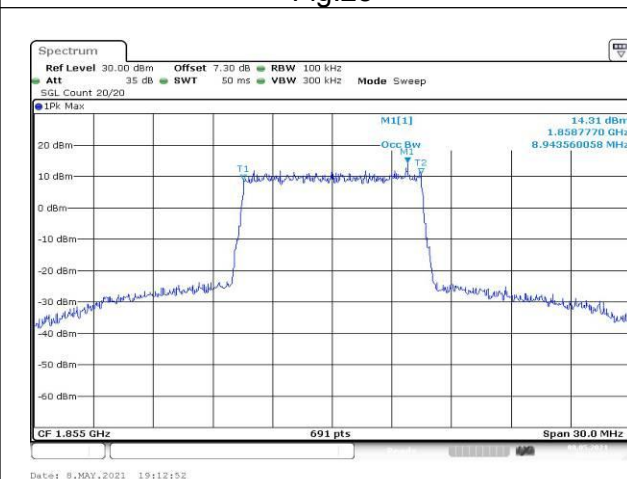


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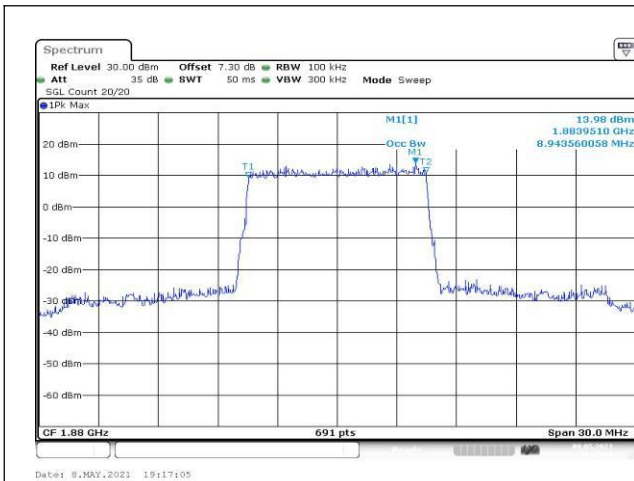


Fig.31

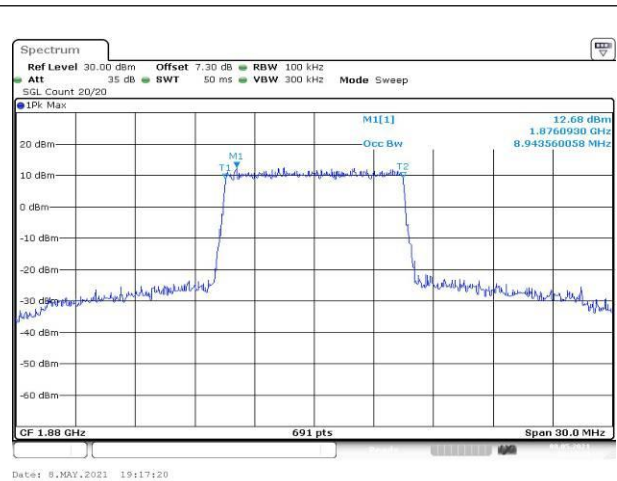


Fig.32

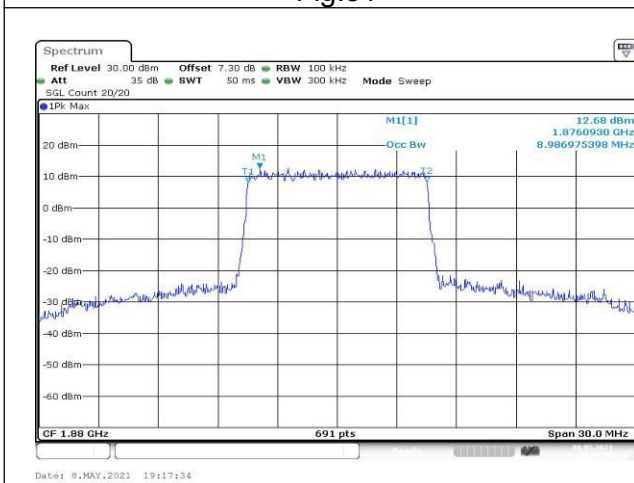


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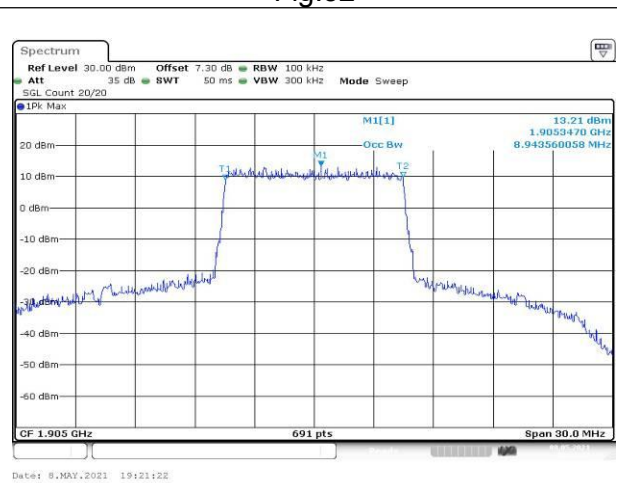


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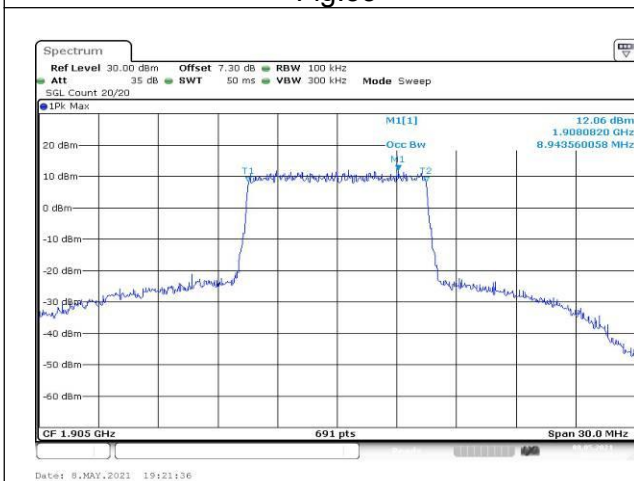


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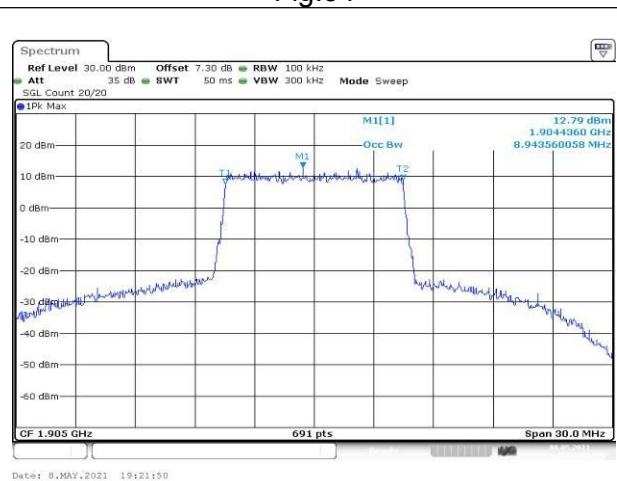
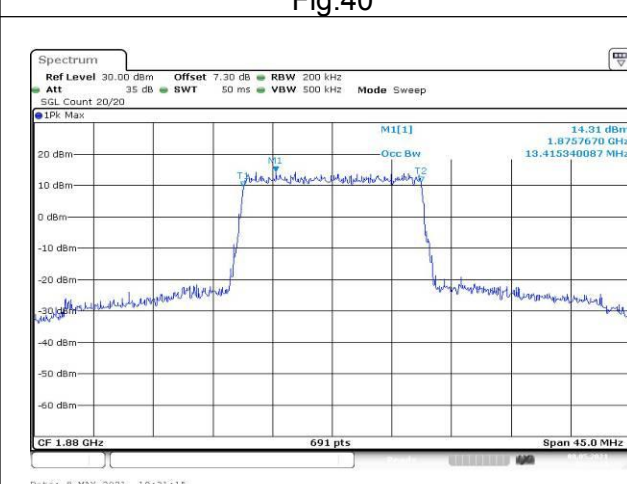
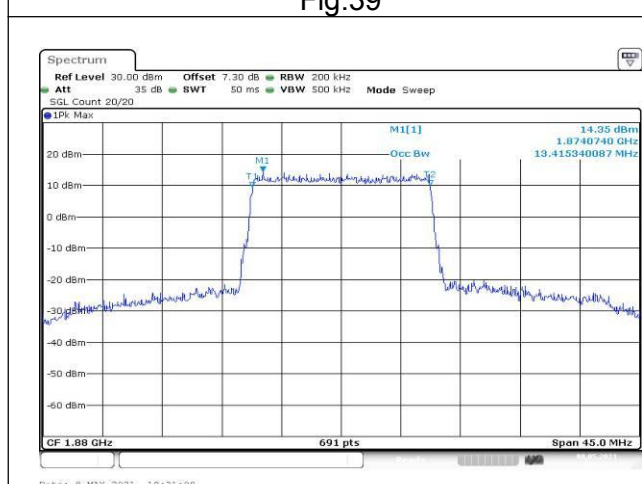
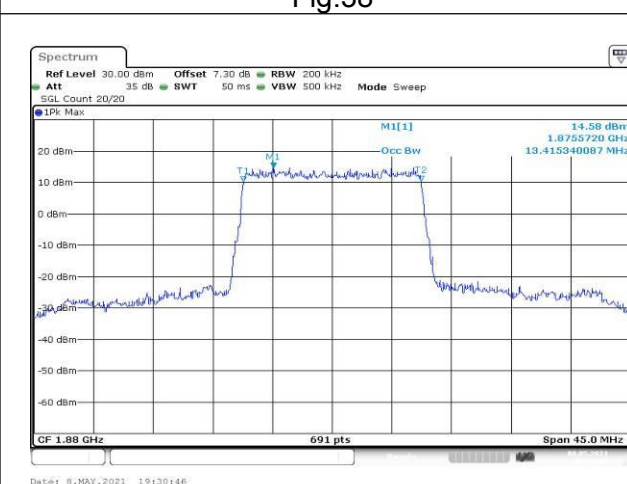
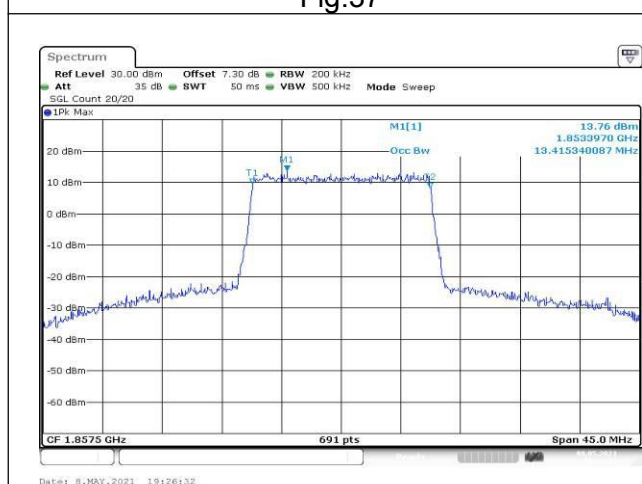
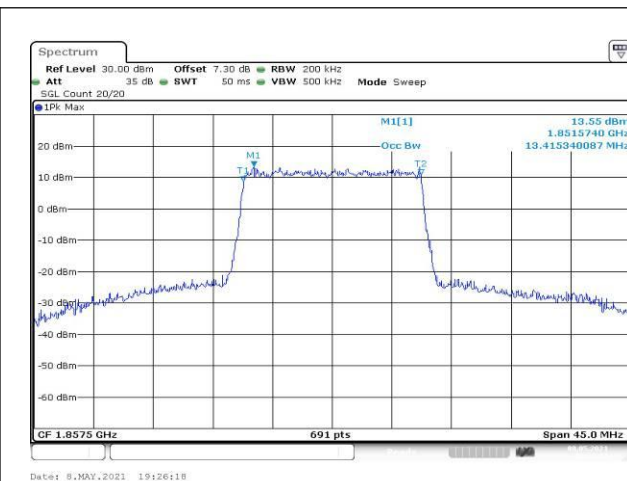
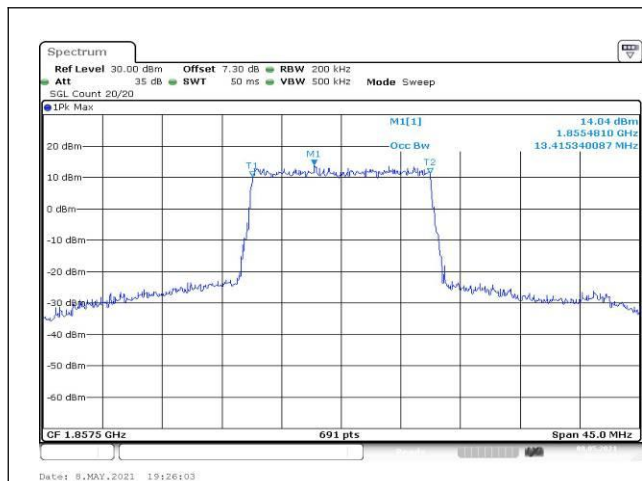
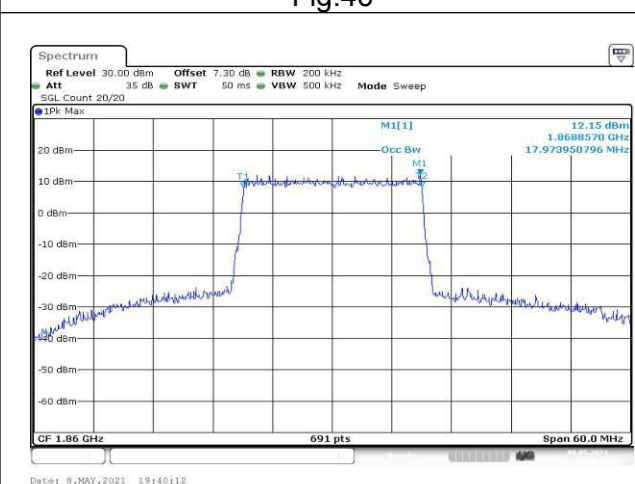
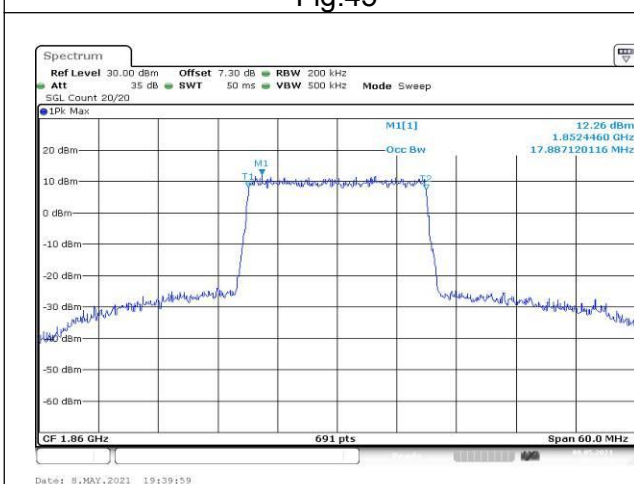
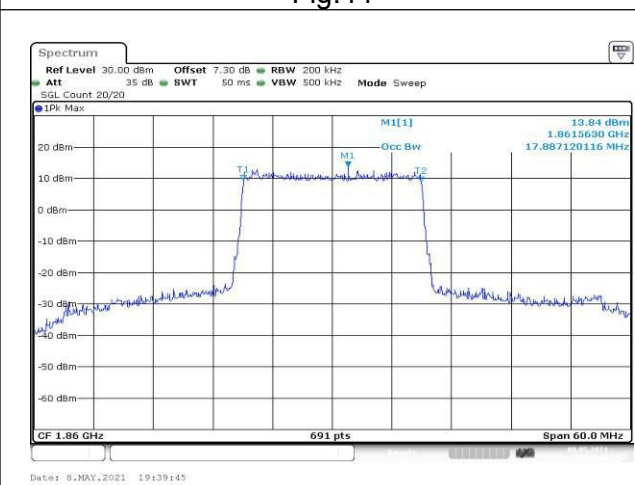
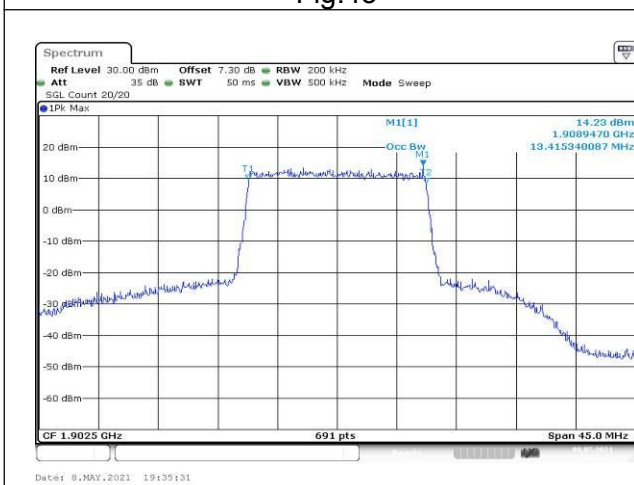
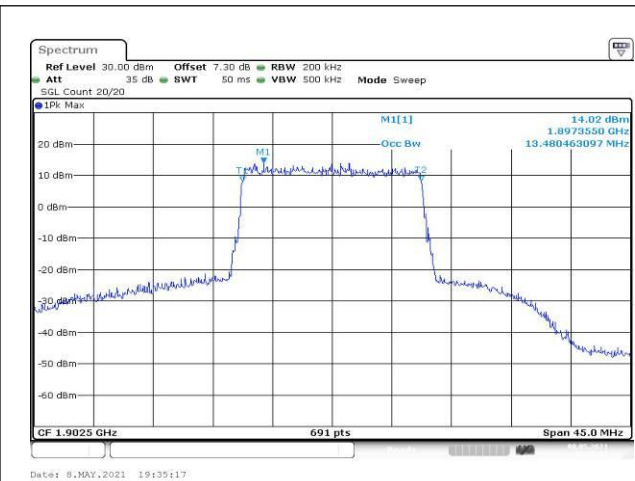
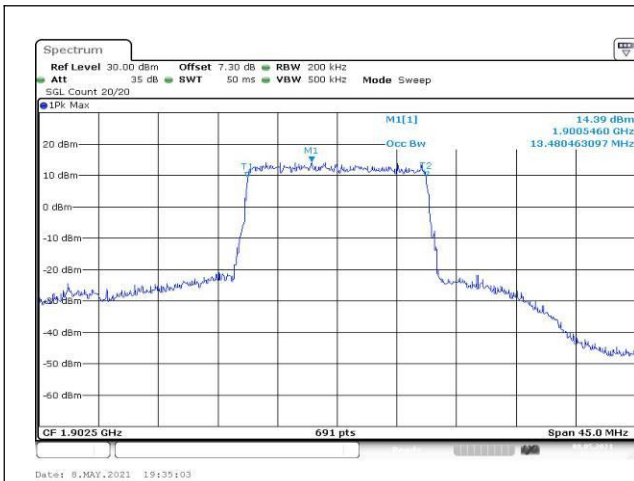


Fig.36





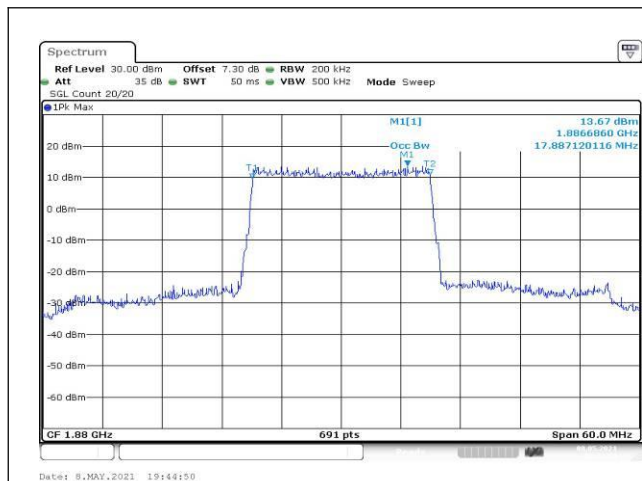


Fig.49

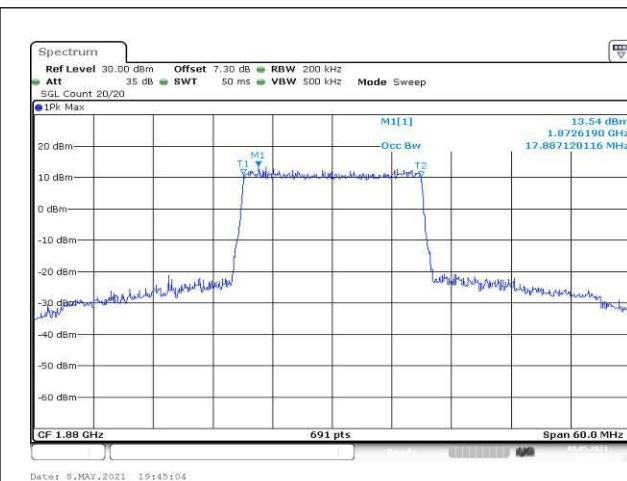


Fig.50

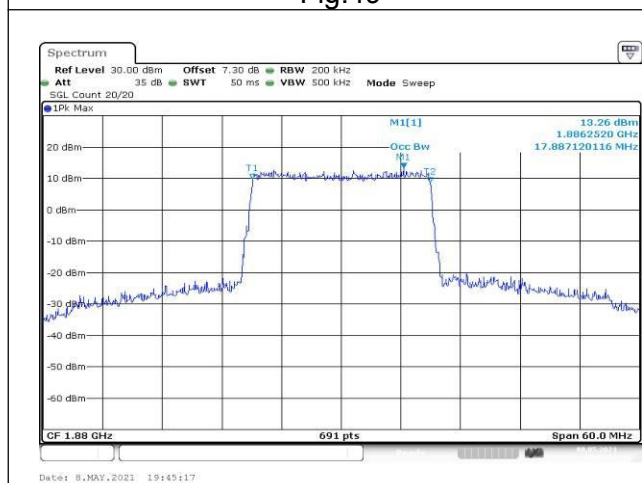


Fig.51

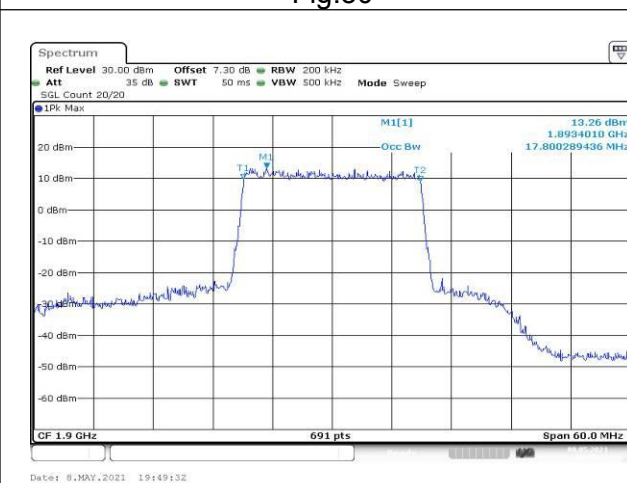


Fig.52

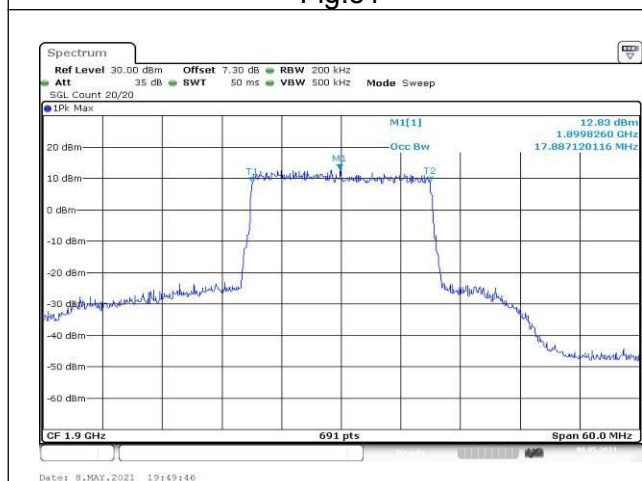


Fig.53



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

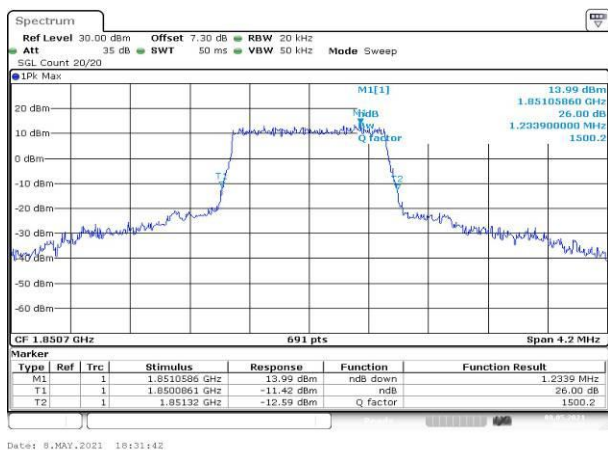


Fig.1

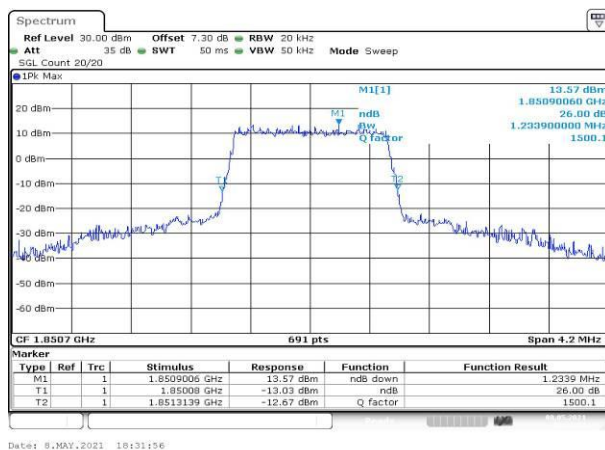


Fig.2

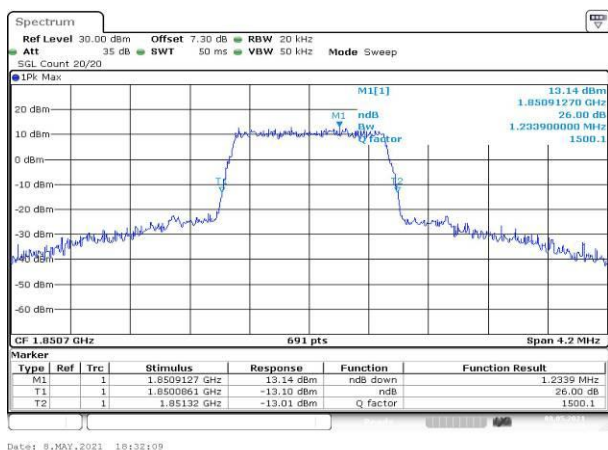


Fig.3

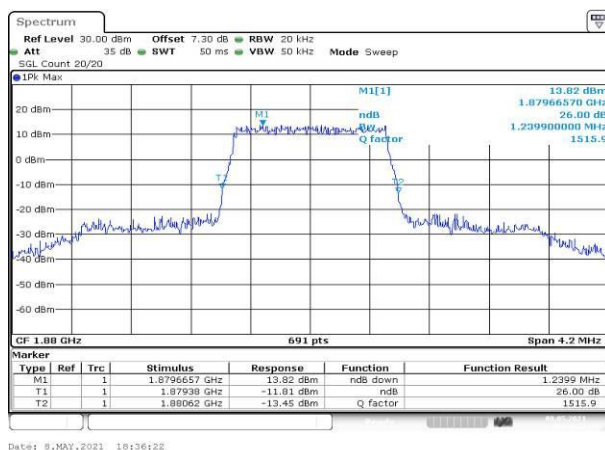


Fig.4

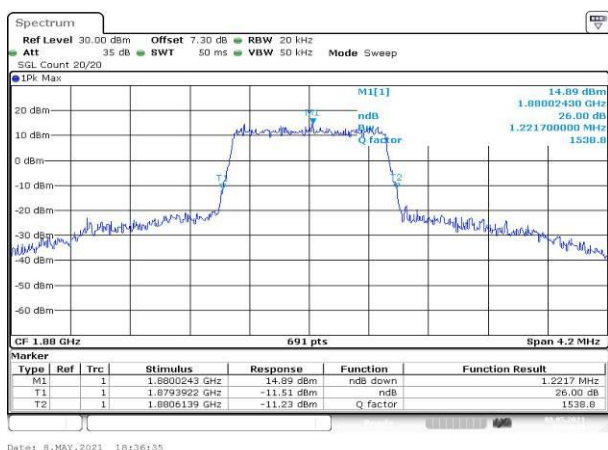


Fig.5

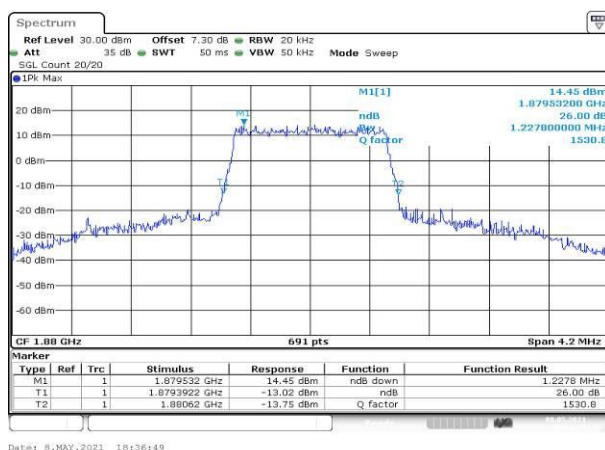


Fig.6

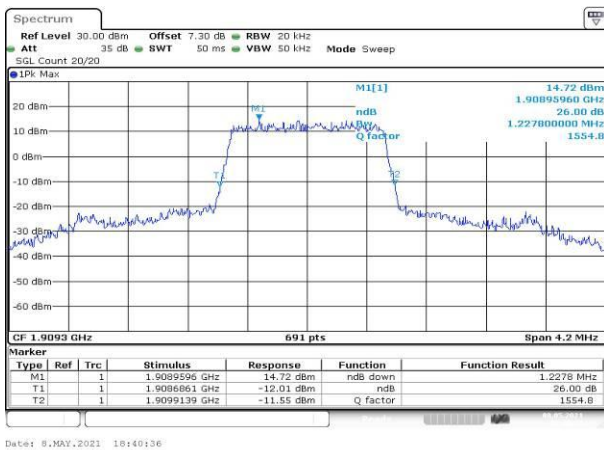


Fig.7

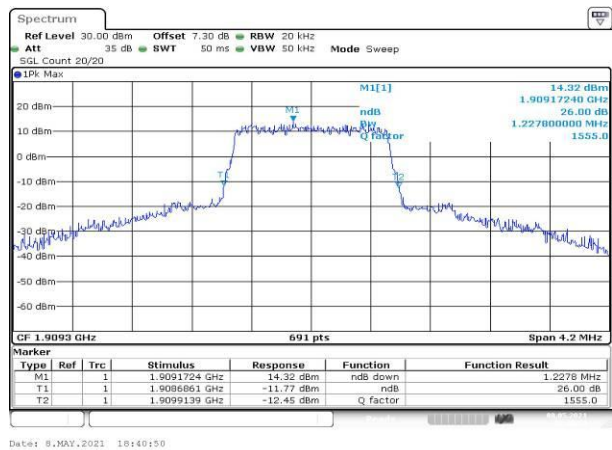


Fig.8

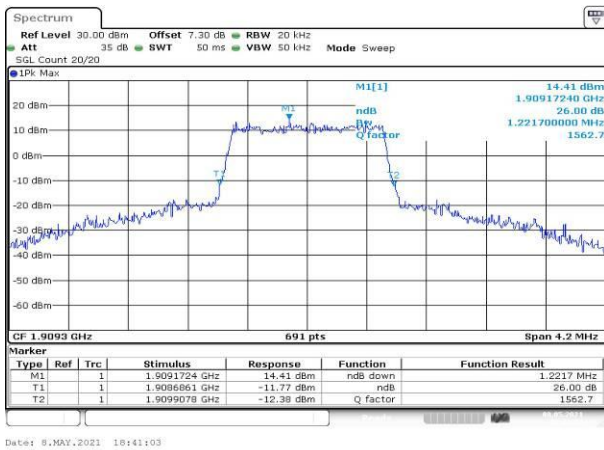


Fig.9

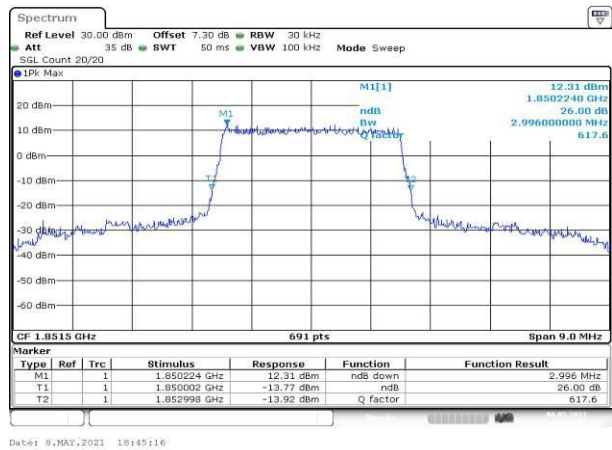


Fig.10

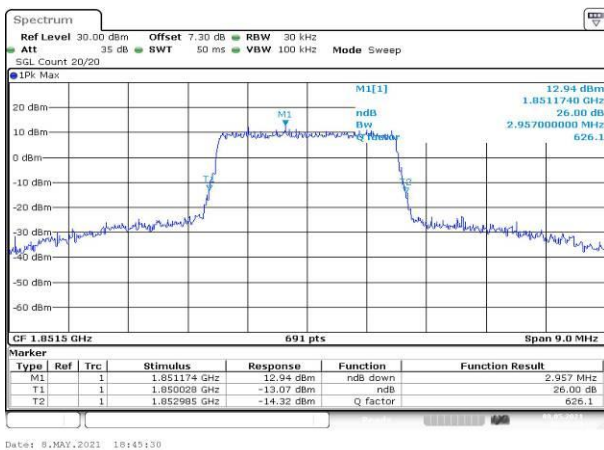


Fig.11

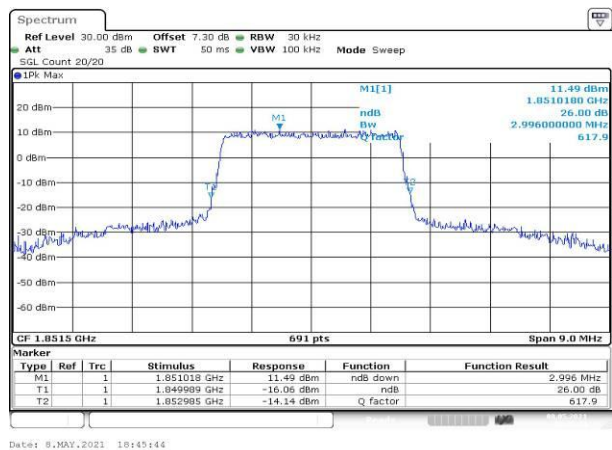
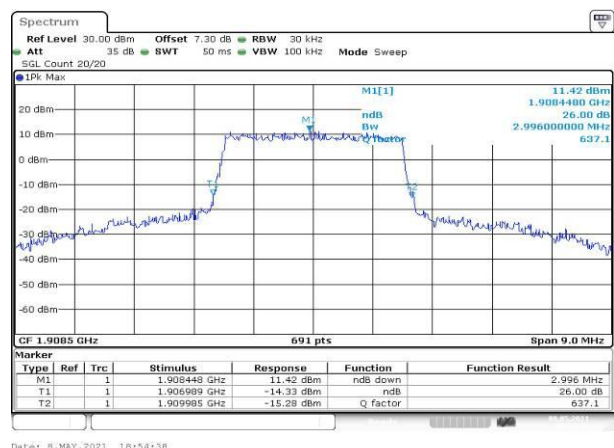
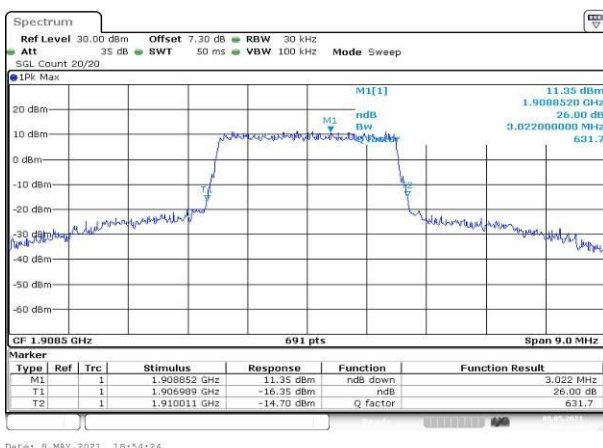
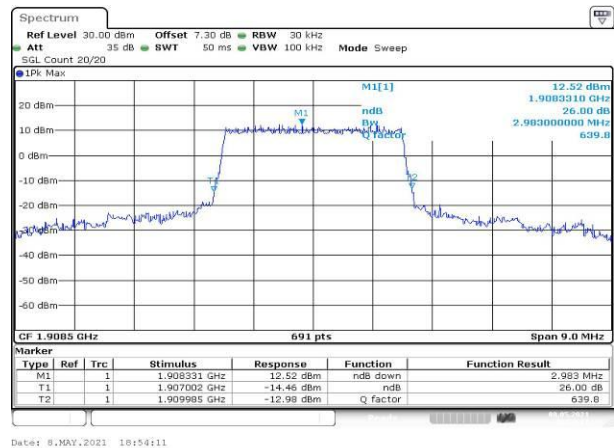
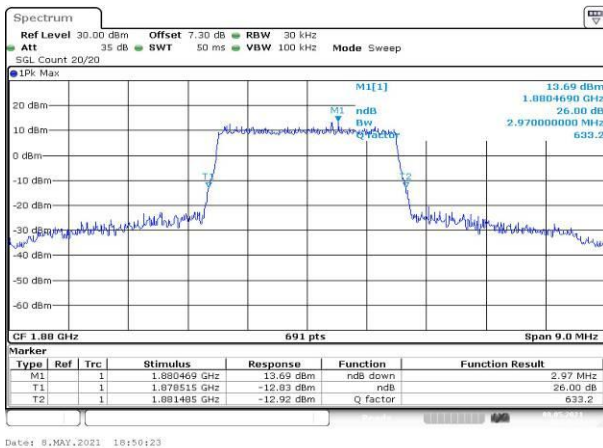
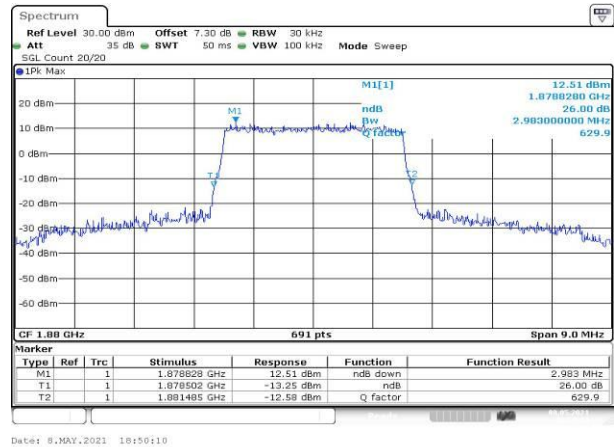
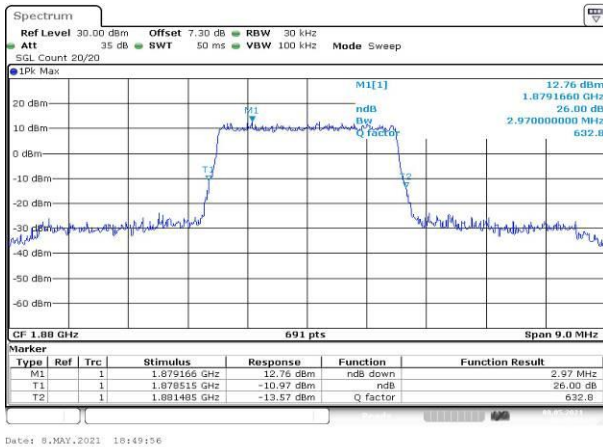


Fig.12



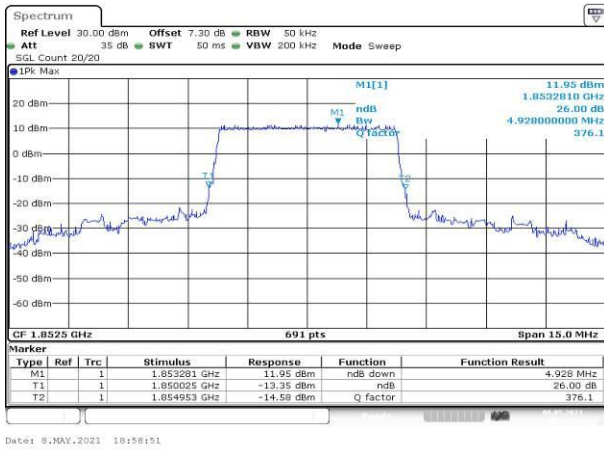


Fig.19

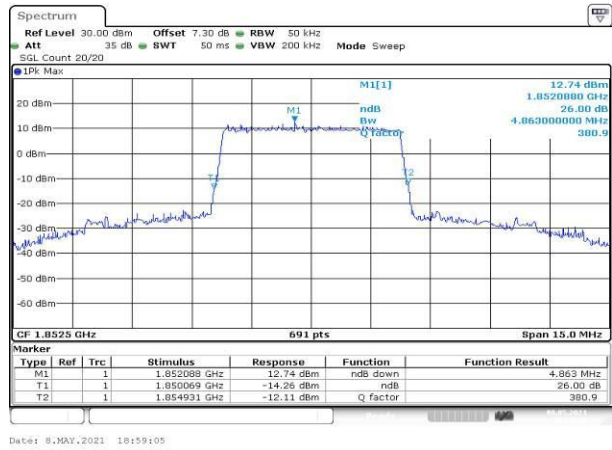


Fig.20

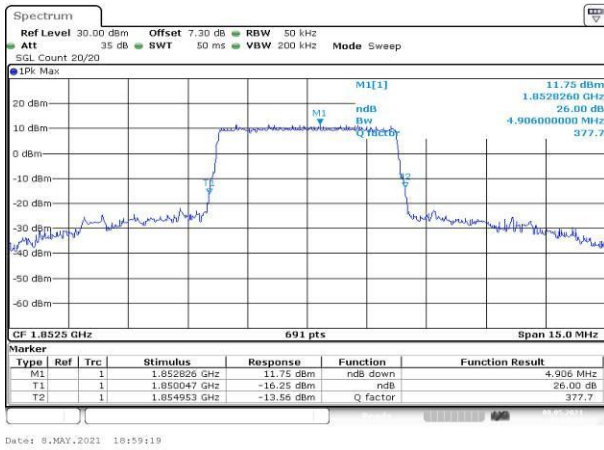


Fig.21

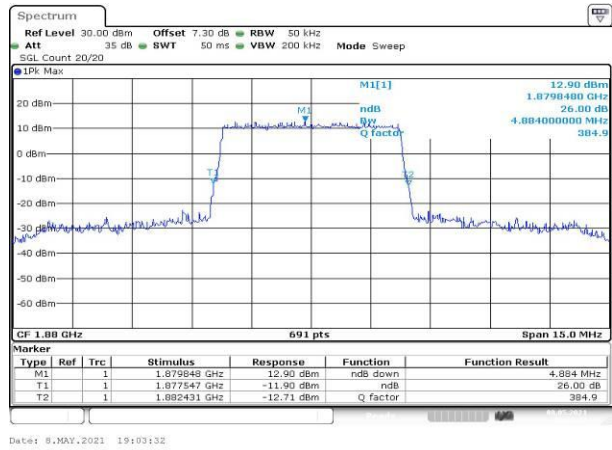


Fig.22

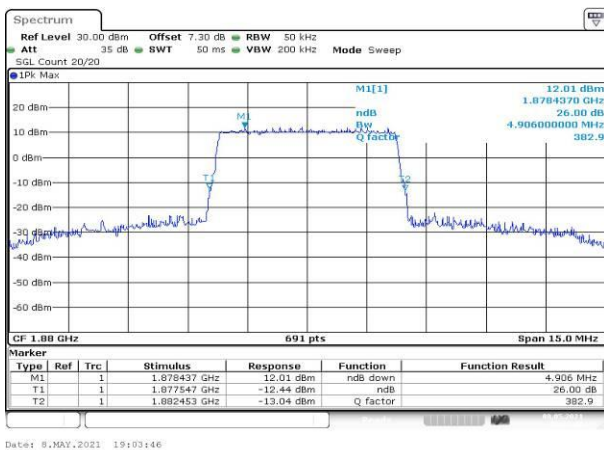


Fig.23

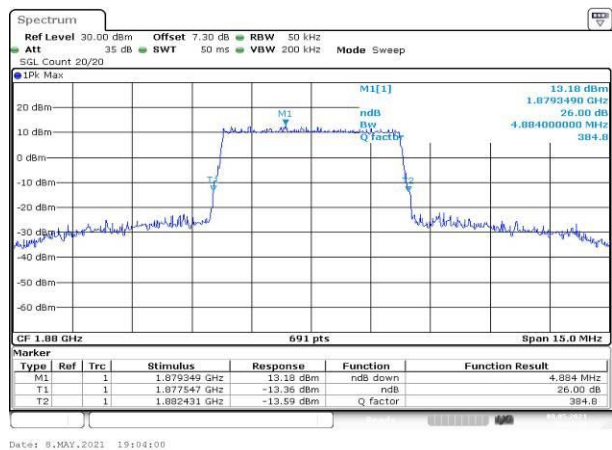


Fig.24

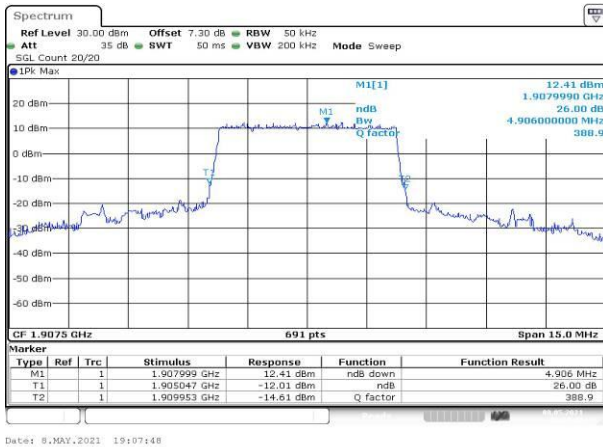


Fig.25

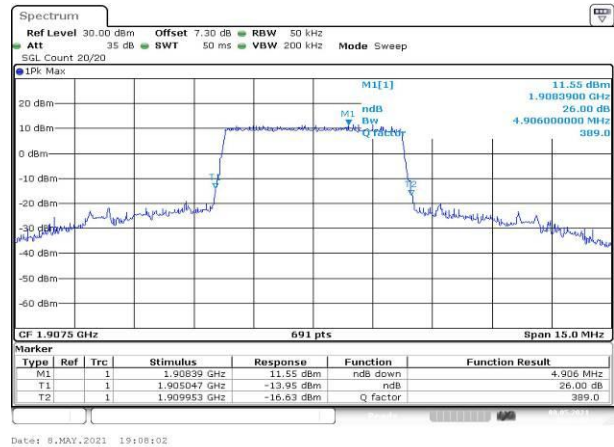


Fig.26

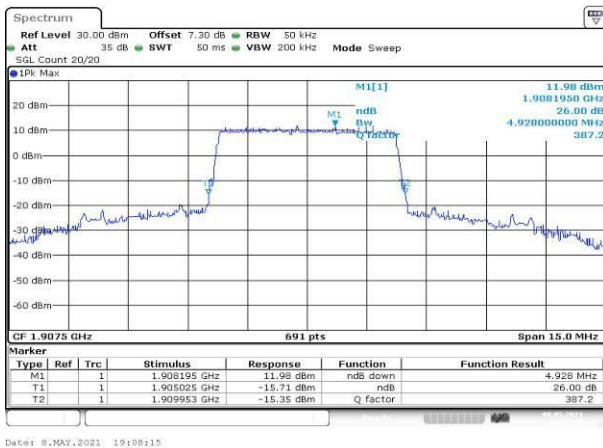


Fig.27

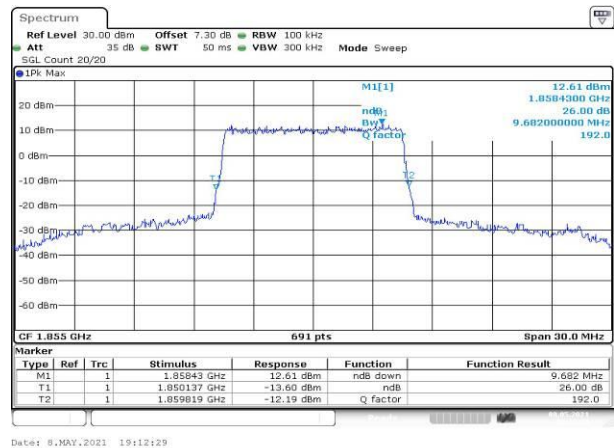


Fig.28

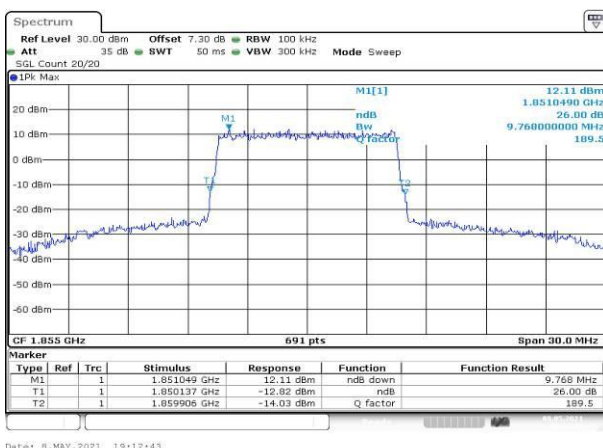


Fig.29

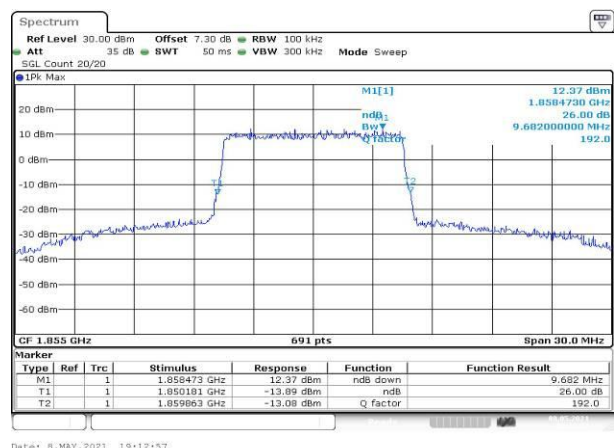
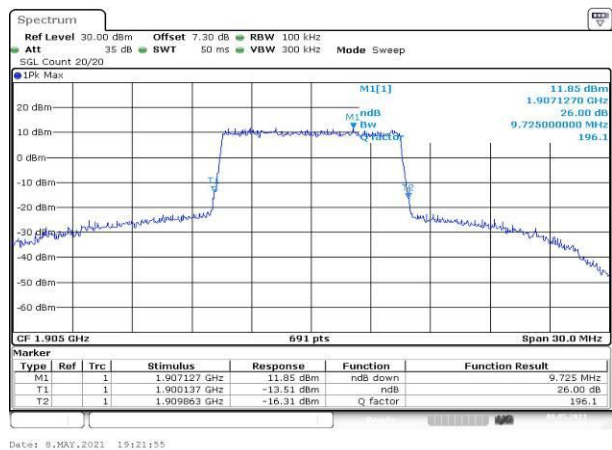
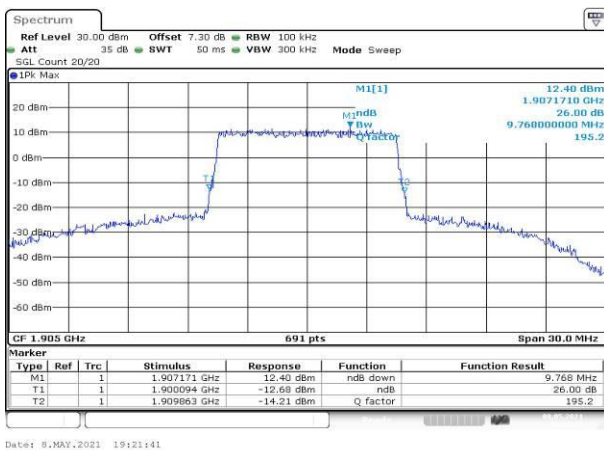
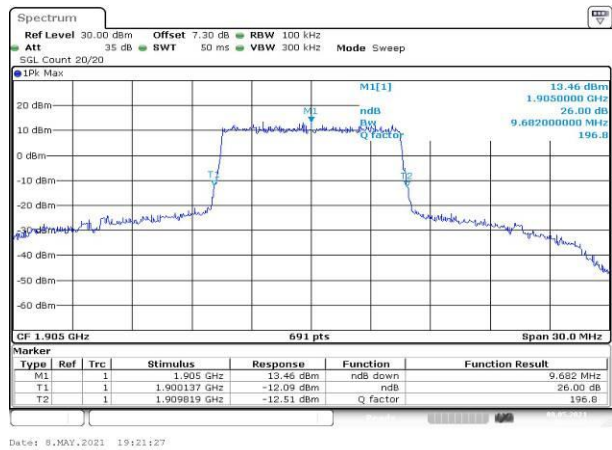
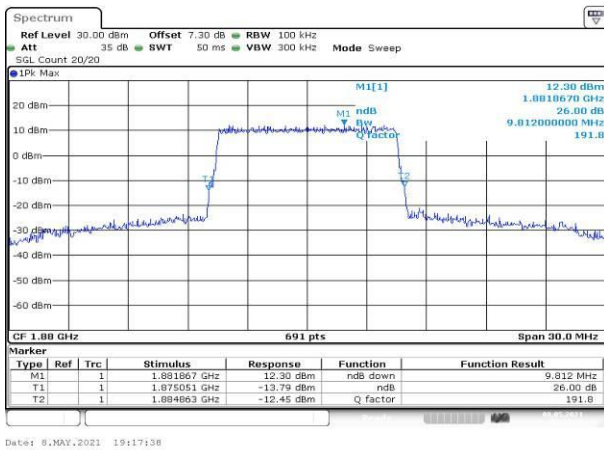
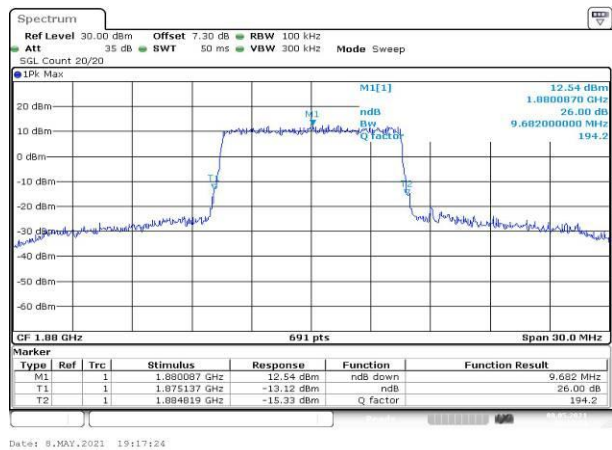
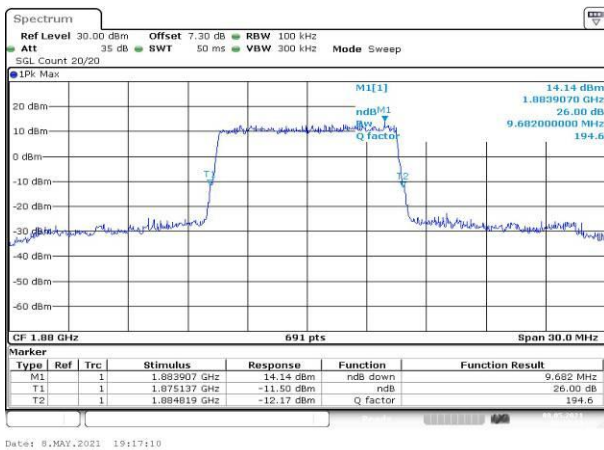


Fig.30



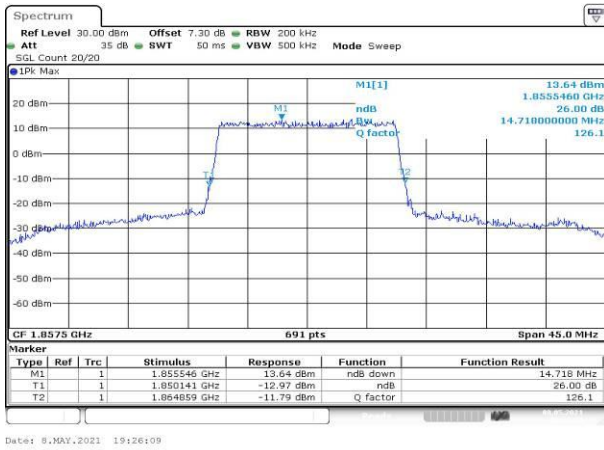


Fig.37

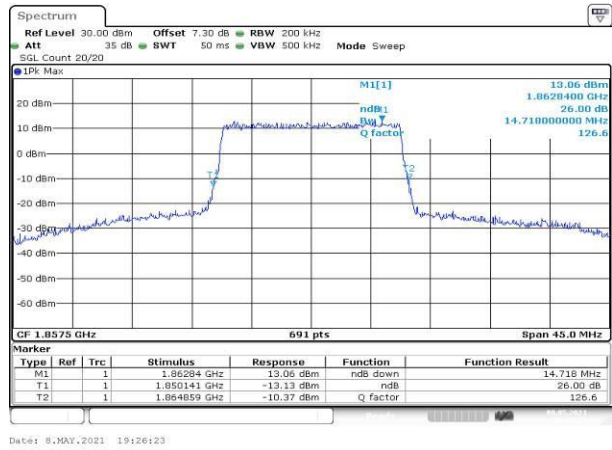


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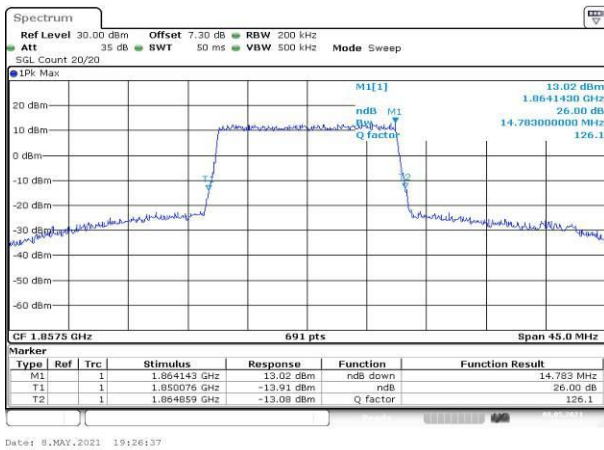


Fig.39

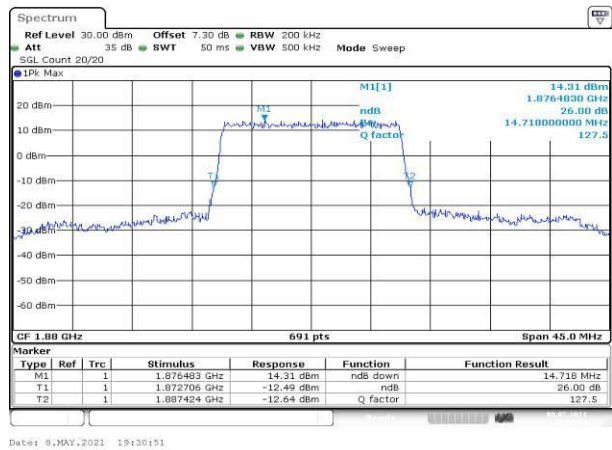


Fig.40



Fig.41

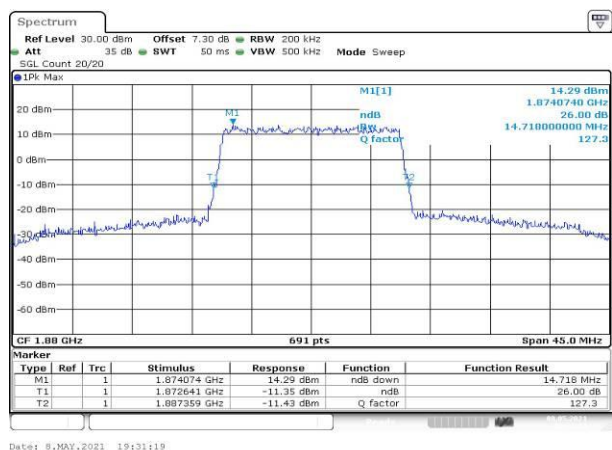


Fig.42