

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1710.7	19957	1.4	1	0	23.06	
				1	3	22.98	
				1	5	23.10	
				3	0	23.04	
				3	1	23.09	
				3	3	23.01	
				6	0	22.16	
	1732.5	20175		1	0	22.96	
				1	3	23.01	
				1	5	23.01	
				3	0	22.95	
				3	1	22.94	
				3	3	22.99	
				6	0	22.06	
	1754.3	20393		1	0	23.28	
				1	3	23.30	
				1	5	23.29	
				3	0	23.23	
				3	1	23.25	
				3	3	23.25	
				6	0	22.26	
	16QAM	1710.7		19957	1	0	22.23
					1	3	22.21
					1	5	22.21
3					0	22.15	
3					1	22.16	
3					3	22.16	
6					0	21.09	
1732.5		20175		1	0	22.14	
				1	3	22.12	
				1	5	22.12	
				3	0	22.26	
				3	1	22.25	
				3	3	22.32	
				6	0	21.11	
1754.3		20393		1	0	22.40	
				1	3	22.44	
				1	5	22.44	
				3	0	22.31	
				3	1	22.26	
				3	3	22.27	
				6	0	21.33	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.10
				1	3	21.10
				1	5	21.01
				3	0	21.10
				3	1	21.10
				3	3	21.05
	6	0		21.02		
	1732.5	20175		1	0	21.12
				1	3	21.12
				1	5	21.12
				3	0	21.12
				3	1	21.12
				3	3	21.13
	6	0		21.13		
	1754.3	20393		1	0	21.33
				1	3	21.33
				1	5	21.33
				3	0	21.34
				3	1	21.34
				3	3	21.34
				6	0	21.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1711.5	19965	3	1	0	23.03	
				1	8	23.04	
				1	14	23.03	
				8	0	22.18	
				8	4	22.13	
				8	7	22.16	
				15	0	22.16	
	1732.5	20175		1	0	23.03	
				1	8	23.09	
				1	14	23.09	
				8	0	22.05	
				8	4	22.15	
				8	7	22.16	
				15	0	22.09	
	1753.5	20385		1	0	23.31	
				1	8	23.39	
				1	14	23.38	
				8	0	22.38	
				8	4	22.39	
				8	7	22.39	
				15	0	22.41	
	16QAM	1711.5		19965	1	0	22.70
					1	8	22.73
					1	14	22.72
8					0	21.35	
8					4	21.36	
8					7	21.36	
15					0	21.29	
1732.5		20175		1	0	22.17	
				1	8	22.26	
			1	14	22.30		
			8	0	21.09		
			8	4	21.14		
			8	7	21.15		
			15	0	21.06		
1753.5		20385	1	0	22.46		
			1	8	22.51		
			1	14	22.52		
			8	0	21.39		
			8	4	21.46		
			8	7	21.47		
			15	0	21.42		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.22
				1	8	21.23
				1	14	21.29
				8	0	21.29
				8	4	21.18
				8	7	21.29
				15	0	21.29
	1732.5	20175		1	0	21.06
				1	8	21.07
				1	14	21.07
				8	0	21.06
				8	4	21.07
				8	7	21.07
				15	0	21.07
	1753.5	20385		1	0	21.49
				1	8	21.42
				1	14	21.42
				8	0	21.42
				8	4	21.42
				8	7	21.42
				15	0	21.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1712.5	19975	5	1	0	23.16	
				1	12	23.23	
				1	24	23.18	
				12	0	22.22	
				12	7	22.29	
				12	13	22.28	
				25	0	22.23	
	1732.5	20175		1	0	22.89	
				1	12	23.02	
				1	24	23.01	
				12	0	22.07	
				12	7	22.13	
				12	13	22.13	
				25	0	22.11	
	1752.5	20375		1	0	23.26	
				1	12	23.33	
				1	24	23.33	
				12	0	22.34	
				12	7	22.36	
				12	13	22.36	
				25	0	22.34	
	16QAM	1712.5		19975	1	0	22.30
					1	12	22.22
					1	24	22.31
12					0	21.21	
12					7	21.24	
12					13	21.24	
25					0	21.31	
1732.5		20175		1	0	22.02	
				1	12	22.16	
			1	24	22.11		
			12	0	21.02		
			12	7	21.16		
			12	13	21.16		
			25	0	21.12		
1752.5		20375	1	0	22.58		
			1	12	22.70		
			1	24	22.70		
			12	0	21.42		
			12	7	21.49		
			12	13	21.48		
			25	0	21.41		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.30
				1	12	21.30
				1	24	21.29
				12	0	21.29
				12	7	21.28
				12	13	21.29
				25	0	21.28
	1732.5	20175		1	0	21.21
				1	12	21.11
				1	24	21.19
				12	0	21.20
				12	7	21.18
				12	13	21.20
				25	0	21.19
	1752.5	20375		1	0	21.40
				1	12	21.40
				1	24	21.40
				12	0	21.39
				12	7	21.39
				12	13	21.39
				25	0	21.39

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1715	20000	10	1	0	23.12	
				1	25	23.38	
				1	49	23.22	
				25	0	22.15	
				25	12	22.32	
				25	25	22.38	
				50	0	22.21	
	1732.5	20175		1	0	22.99	
				1	25	23.25	
				1	49	23.11	
				25	0	22.02	
				25	12	22.19	
				25	25	22.23	
				50	0	22.07	
	1750	20350		1	0	23.27	
				1	25	23.28	
				1	49	23.37	
				25	0	22.29	
				25	12	22.36	
				25	25	22.39	
				50	0	22.34	
	16QAM	1715		20000	1	0	22.81
					1	25	22.64
					1	49	22.75
25					0	21.27	
25					12	21.27	
25					25	21.26	
50					0	21.17	
1732.5		20175		1	0	22.19	
				1	25	22.28	
			1	49	22.21		
			25	0	20.98		
			25	12	21.24		
			25	25	21.24		
			50	0	21.20		
1750		20350	1	0	22.40		
			1	25	22.48		
			1	49	22.48		
			25	0	21.43		
			25	12	21.50		
			25	25	21.53		
			50	0	21.35		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.17
				1	25	21.17
				1	49	21.17
				25	0	21.20
				25	12	21.19
				25	25	21.19
	1732.5	20175		50	0	21.19
				1	0	21.18
				1	25	21.12
				1	49	21.12
				25	0	21.11
				25	12	21.12
	1750	20350		25	25	21.11
				50	0	21.12
				1	0	21.36
				1	25	21.36
				1	49	21.29
				25	0	21.36
				25	12	21.36
				25	25	21.34
				50	0	21.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.19
				1	37	23.21
				1	74	23.20
				36	0	22.29
				36	29	22.26
				36	30	22.23
				75	0	22.19
	1732.5	20175		1	0	23.09
				1	37	23.13
				1	74	23.12
				36	0	22.19
				36	29	22.18
				36	30	22.15
				75	0	22.12
	1747.5	20325		1	0	23.19
				1	37	23.17
				1	74	23.16
				36	0	22.23
				36	29	22.32
				36	30	22.31
				75	0	22.19
16QAM	1717.5	20025	1	0	22.81	
			1	37	22.52	
			1	74	22.63	
			36	0	21.10	
			36	29	21.15	
			36	30	21.12	
			75	0	21.17	
	1732.5	20175	1	0	22.37	
			1	37	22.37	
			1	74	22.37	
			36	0	21.18	
			36	29	21.17	
			36	30	21.15	
			75	0	21.06	
	1747.5	20325	1	0	22.89	
			1	37	22.75	
			1	74	22.69	
			36	0	21.26	
			36	29	21.29	
			36	30	21.31	
			75	0	21.22	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.18
				1	37	21.15
				1	74	21.14
				36	0	21.22
				36	29	21.22
				36	30	21.20
				75	0	21.19
	1732.5	20175		1	0	21.10
				1	37	21.14
				1	74	21.08
				36	0	21.12
				36	29	21.12
				36	30	21.15
				75	0	21.14
	1747.5	20325		1	0	21.18
				1	37	21.17
				1	74	21.26
				36	0	21.18
				36	29	21.24
				36	30	21.23
				75	0	21.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1720	20050	20	1	0	23.12	
				1	49	22.94	
				1	99	22.97	
				50	0	22.16	
				50	24	22.06	
				50	50	22.13	
				100	0	22.21	
	1732.5	20175		1	0	23.16	
				1	49	23.14	
				1	99	23.20	
				50	0	22.08	
				50	24	22.15	
				50	50	22.17	
				100	0	22.15	
	1745	20300		1	0	23.06	
				1	49	23.23	
				1	99	23.26	
				50	0	22.14	
				50	24	22.32	
				50	50	22.31	
				100	0	22.29	
	16QAM	1720		20050	1	0	22.59
					1	49	22.35
					1	99	22.29
50					0	21.17	
50					24	21.01	
50					50	20.98	
100					0	21.20	
1732.5		20175		1	0	22.41	
				1	49	22.50	
			1	99	22.47		
			50	0	21.17		
			50	24	21.18		
			50	50	21.15		
			100	0	21.13		
1745		20300	1	0	22.94		
			1	49	22.93		
			1	99	22.86		
			50	0	21.28		
			50	24	21.35		
			50	50	21.32		
			100	0	21.26		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.20
				1	49	21.21
				1	99	21.23
				50	0	21.16
				50	24	21.13
				50	50	21.19
	1732.5	20175		100	0	21.16
				1	0	21.13
				1	49	21.10
				1	99	21.04
				50	0	21.20
				50	24	21.14
	1745	20300		50	50	21.24
				100	0	21.04
				1	0	21.34
				1	49	21.36
				1	99	21.34
				50	0	21.34
				50	24	21.34
				50	50	21.34
				100	0	21.34

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 4

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
QPSK	1710.7	19957	1.4	1	0	23.06	
				1	3	22.98	
				1	5	23.10	
				3	0	23.04	
				3	1	23.09	
				3	3	23.01	
	6	0		22.16			
	1732.5	20175		1	0	22.96	
				1	3	23.01	
				1	5	23.01	
				3	0	22.95	
				3	1	22.94	
				3	3	22.99	
	6	0		22.06			
	1754.3	20393		1	0	23.28	
				1	3	23.30	
				1	5	23.29	
				3	0	23.23	
				3	1	23.25	
				3	3	23.25	
	16QAM	1710.7		19957	6	0	22.26
					1	0	22.23
					1	3	22.21
					1	5	22.21
3					0	22.15	
3					1	22.16	
3		3		22.16			
6		0		21.09			
1732.5		20175		1	0	22.14	
				1	3	22.12	
			1	5	22.12		
			3	0	22.26		
			3	1	22.25		
			3	3	22.32		
6		0	21.11				
1754.3		20393	1	0	22.40		
			1	3	22.44		
			1	5	22.44		
			3	0	22.31		
			3	1	22.26		
			3	3	22.27		
6		0	21.33				

Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
4	1710.7	19957	1.4	6	0	1.082	Fig.1	1.076	Fig.2	1.082	Fig.3
	1732.5	20175		6	0	1.082	Fig.4	1.082	Fig.5	1.082	Fig.6
	1754.3	20393		6	0	1.082	Fig.7	1.082	Fig.8	1.082	Fig.9
	1711.5	19965	3	15	0	2.683	Fig.10	2.683	Fig.11	2.683	Fig.12
	1732.5	20175		15	0	2.670	Fig.13	2.683	Fig.14	2.683	Fig.15
	1753.5	20385		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	1712.5	19975	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	1732.5	20175		25	0	4.472	Fig.22	4.472	Fig.23	4.472	Fig.24
	1752.5	20375		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1715	20000	10	50	0	8.944	Fig.28	8.944	Fig.29	8.900	Fig.30
	1732.5	20175		50	0	8.944	Fig.31	8.900	Fig.32	8.900	Fig.33
	1750	20350		50	0	8.900	Fig.34	8.857	Fig.35	8.900	Fig.36
	1717.5	20025	15	75	0	13.415	Fig.37	13.415	Fig.38	13.415	Fig.39
	1732.5	20175		75	0	13.415	Fig.40	13.415	Fig.41	13.415	Fig.42
	1747.5	20325		75	0	13.350	Fig.43	13.350	Fig.44	13.415	Fig.45
	1720	20050	20	100	0	17.887	Fig.46	17.713	Fig.47	17.887	Fig.48
	1732.5	20175		100	0	17.887	Fig.49	17.887	Fig.50	17.713	Fig.51
	1745	20300		100	0	17.800	Fig.52	17.887	Fig.53	17.887	Fig.54

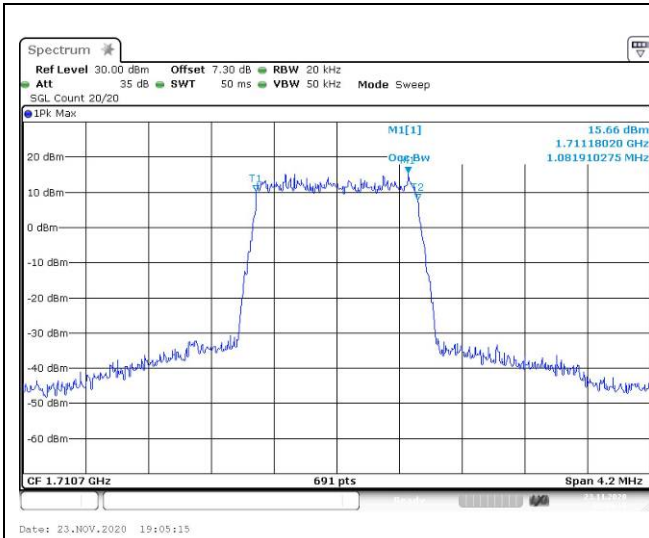


Fig.1

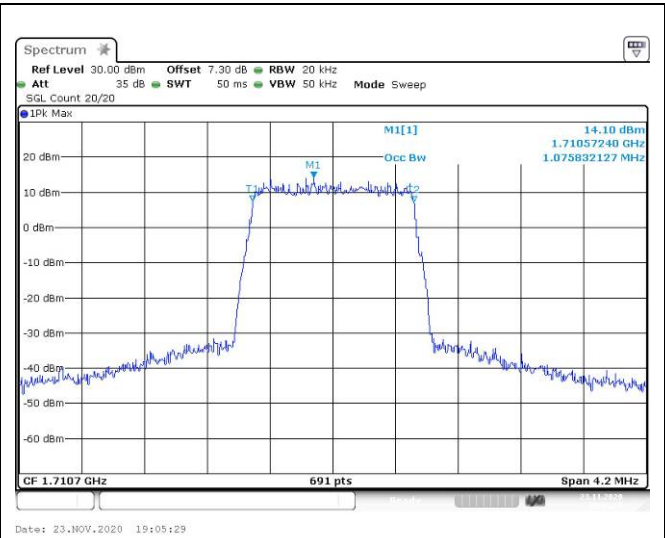


Fig.2

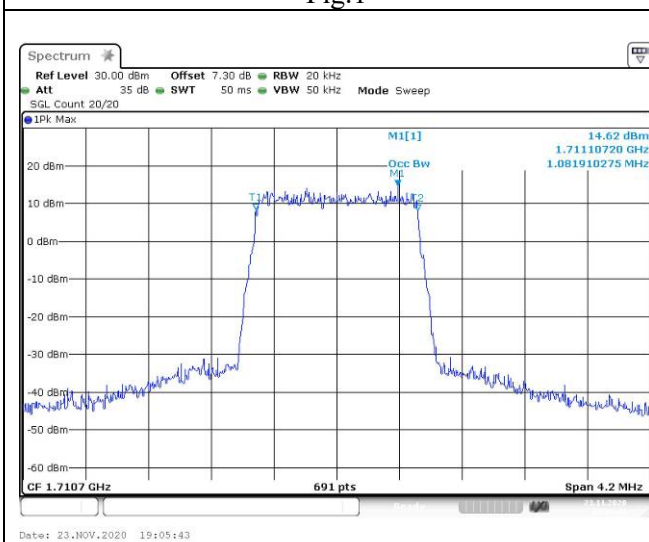


Fig.3

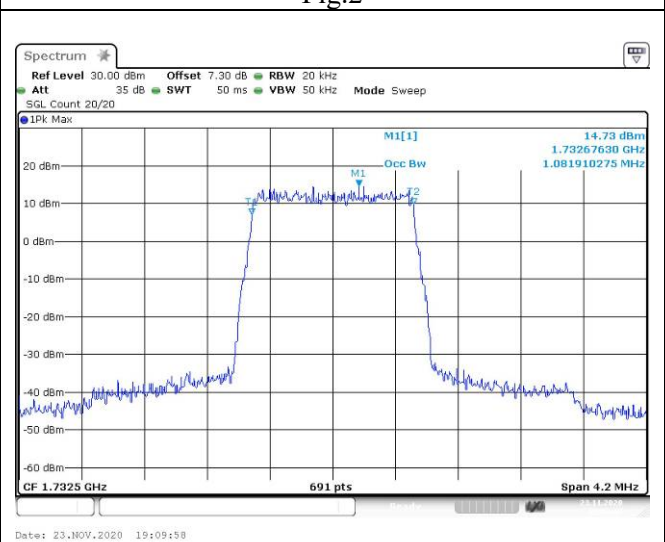


Fig.4

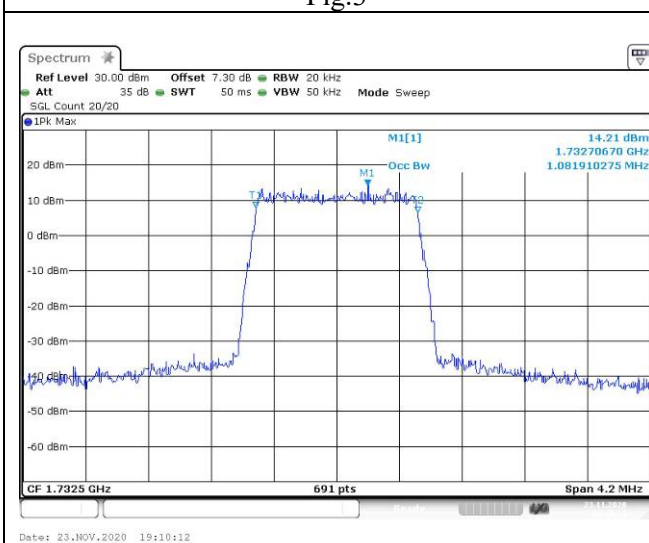


Fig.5

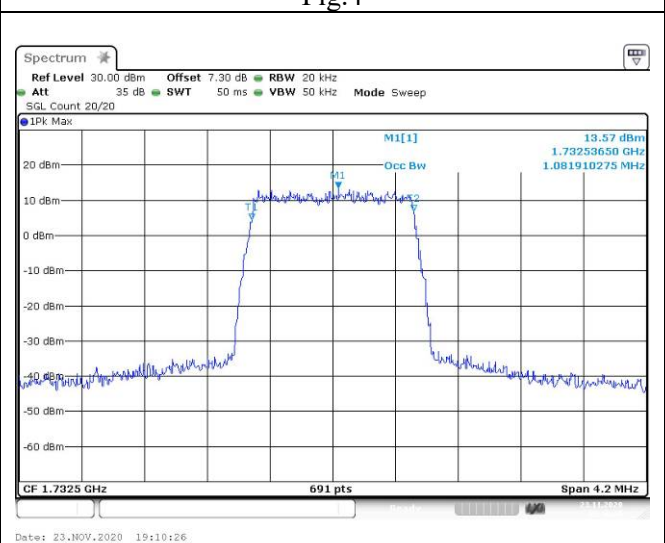


Fig.6

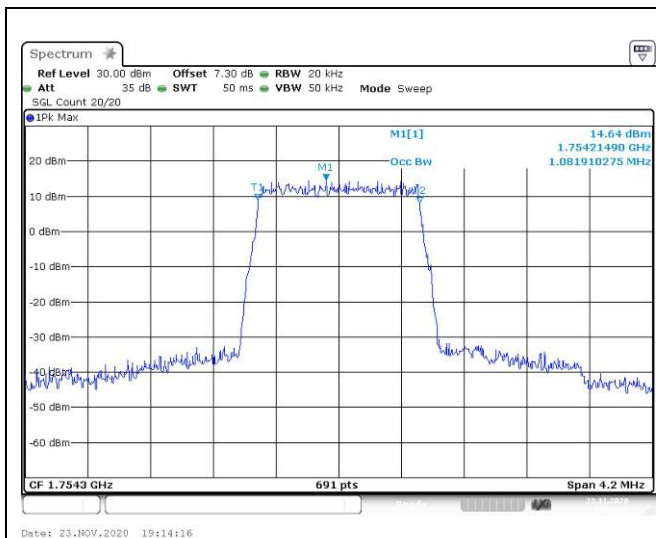


Fig.7

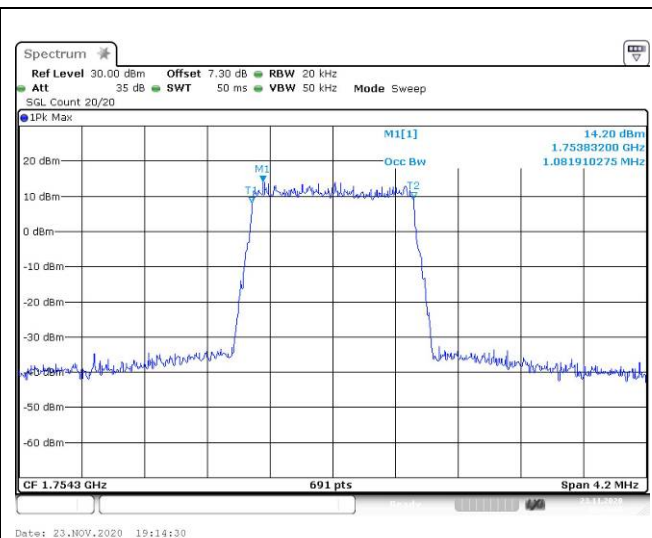


Fig.8

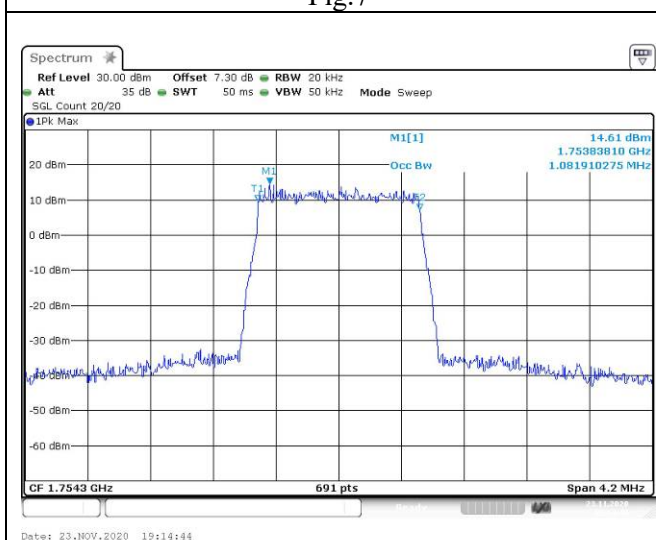


Fig.9

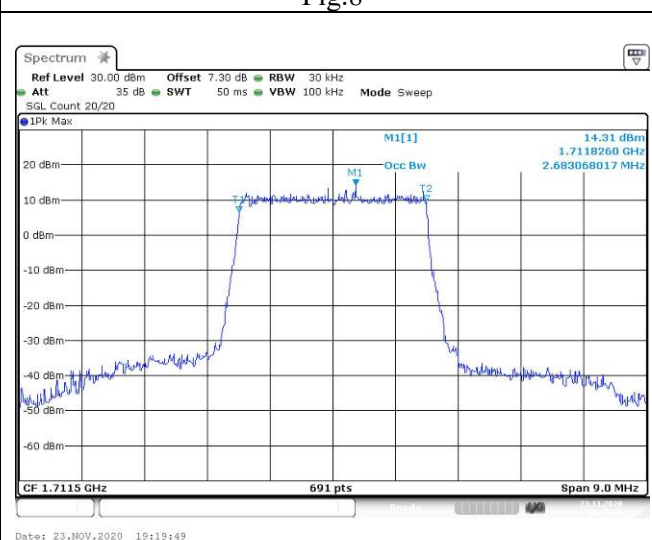


Fig.10

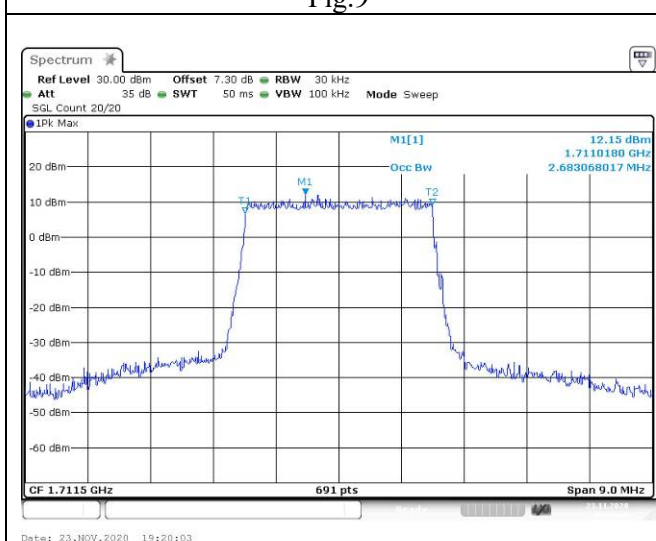


Fig.11

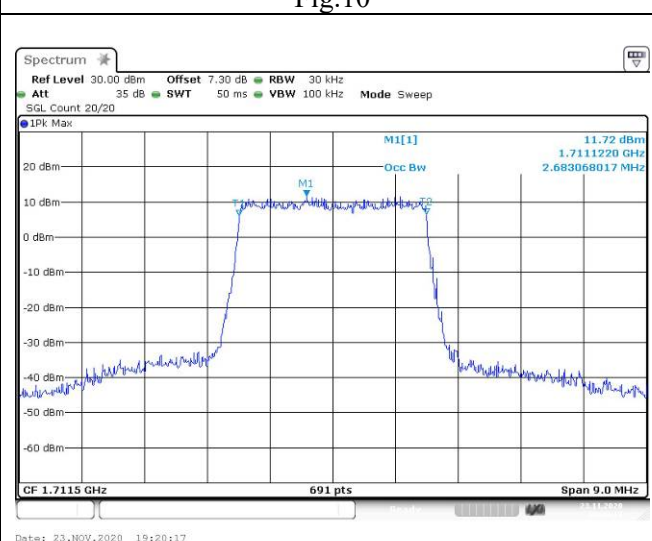
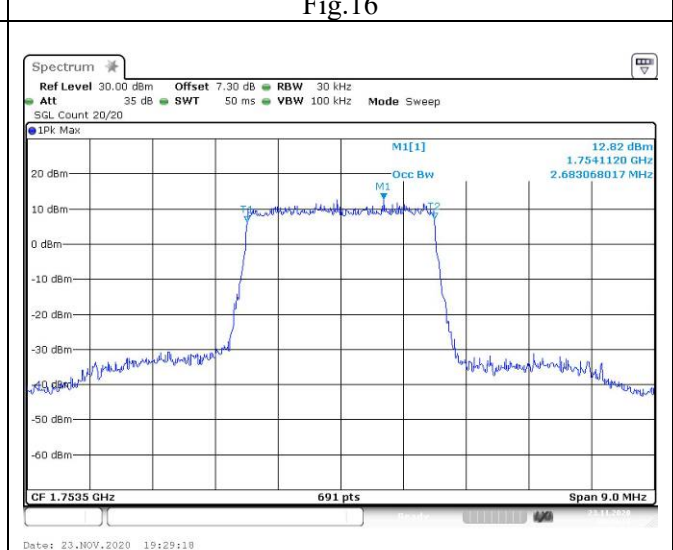
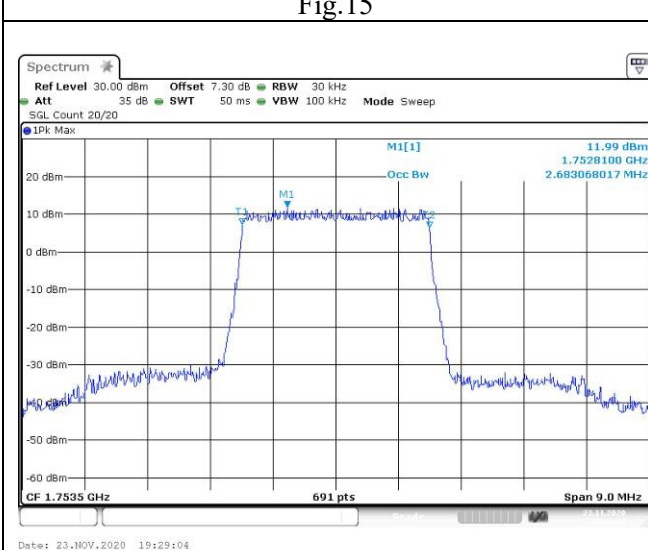
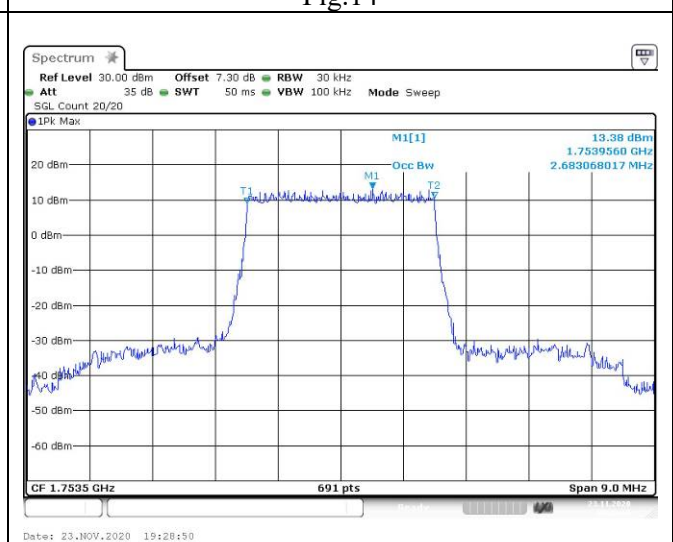
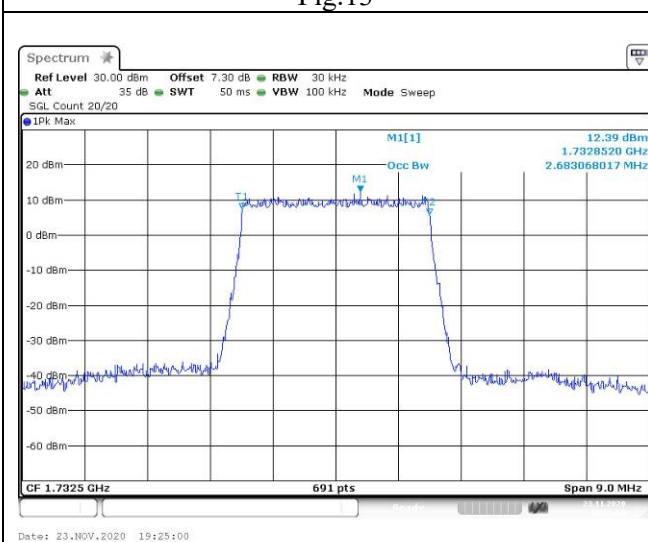
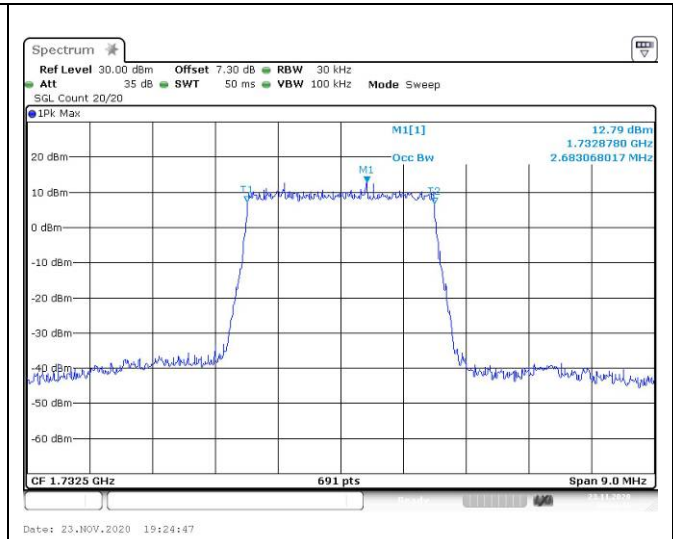
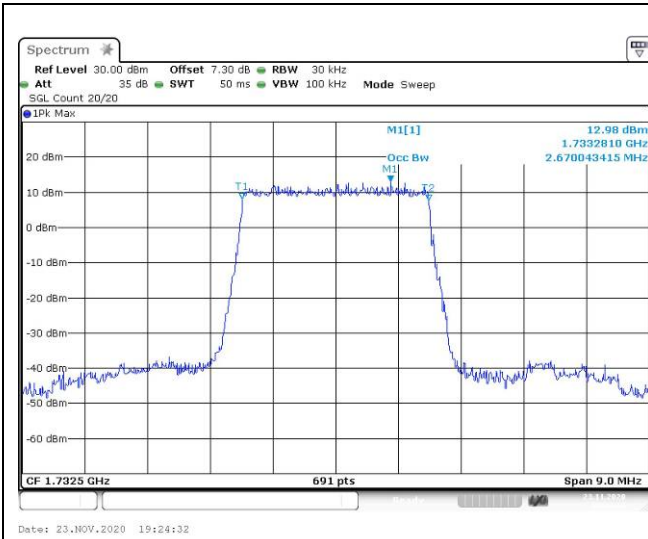


Fig.12



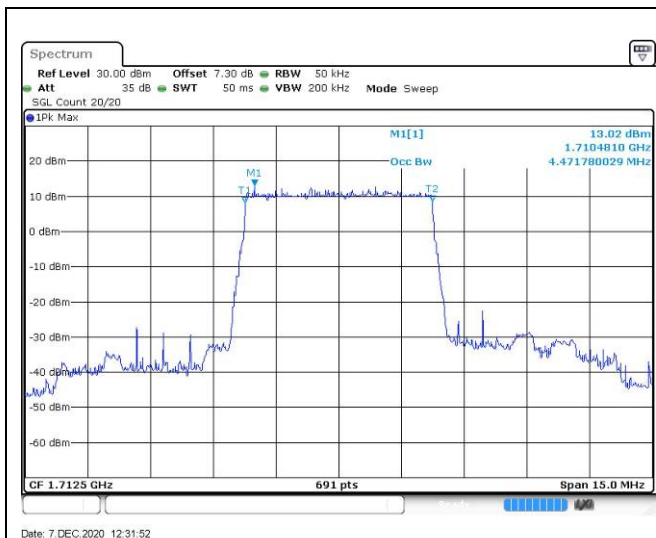


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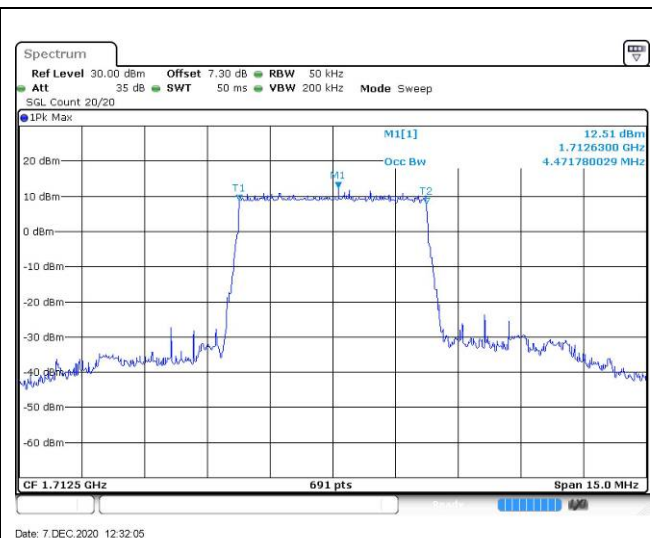


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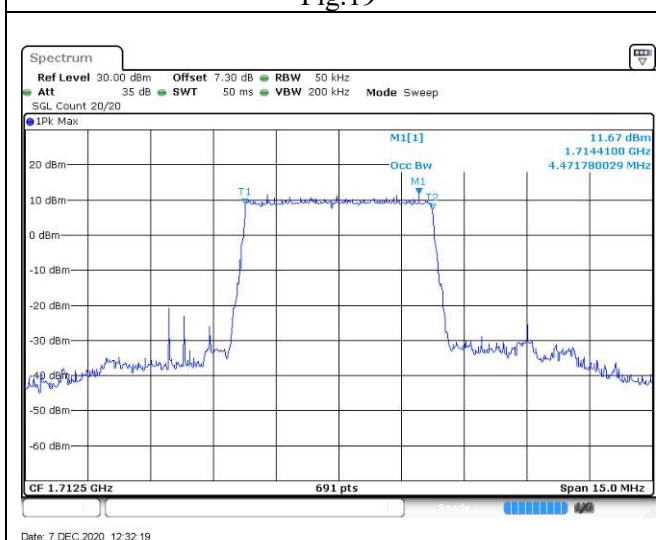


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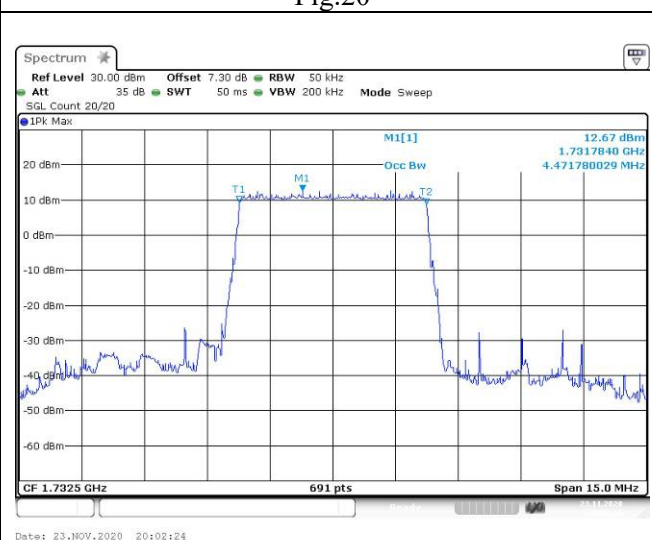


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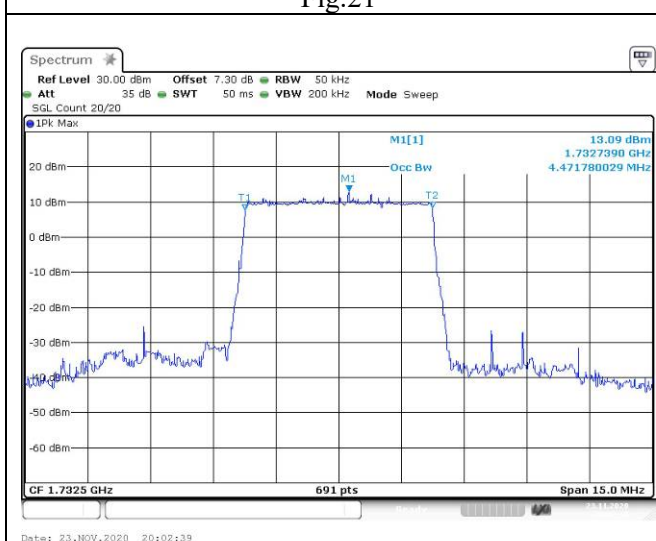


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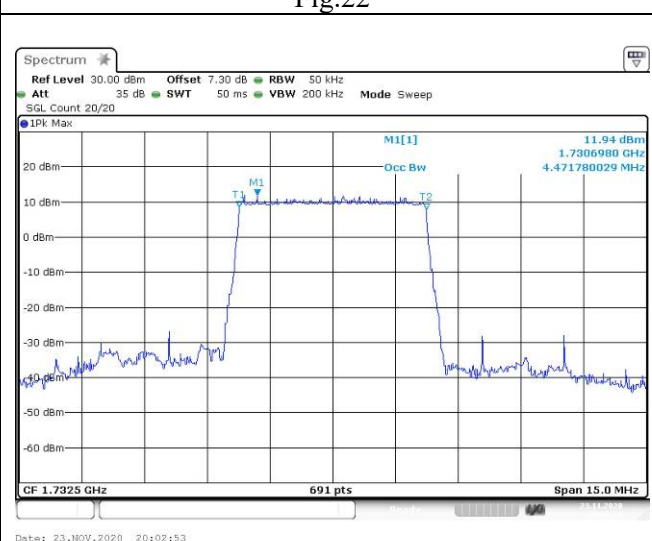


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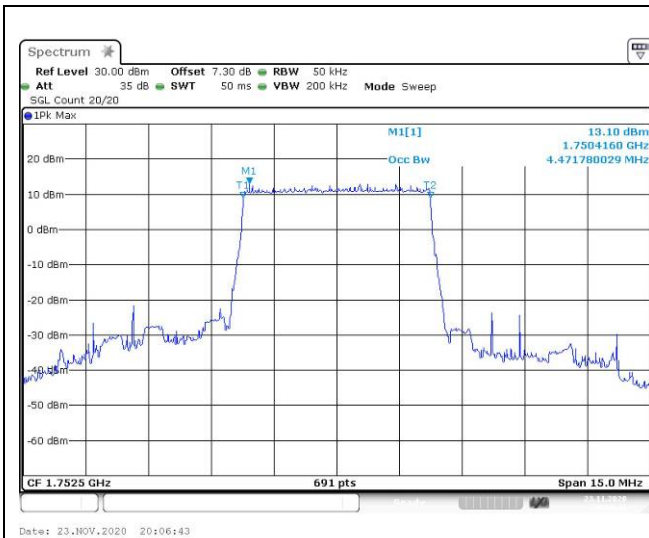


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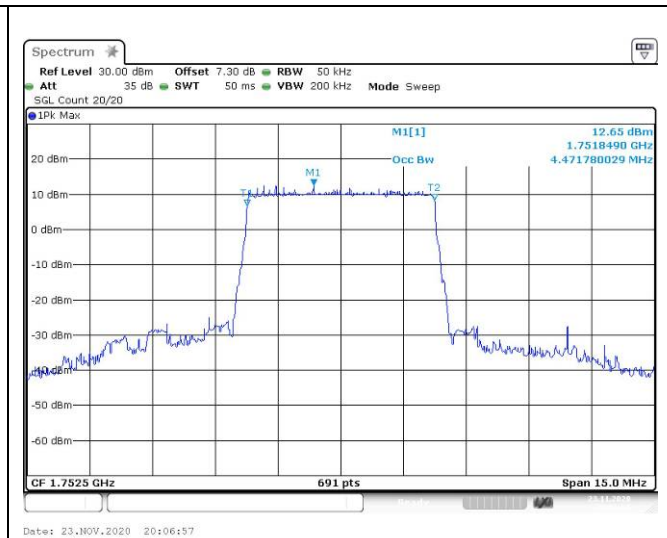


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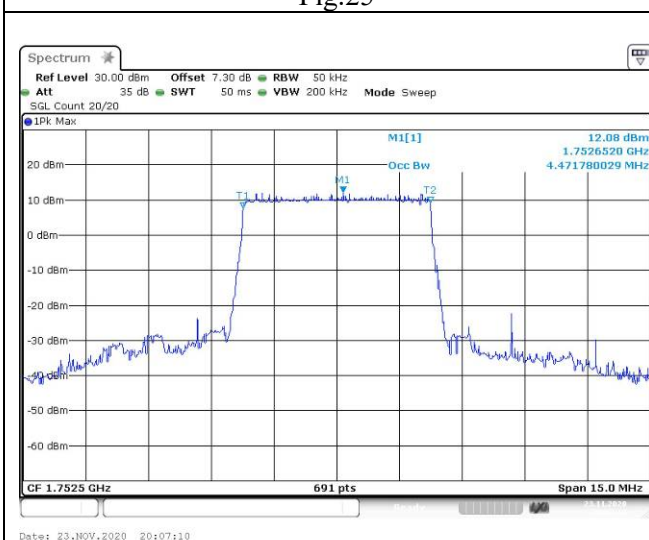


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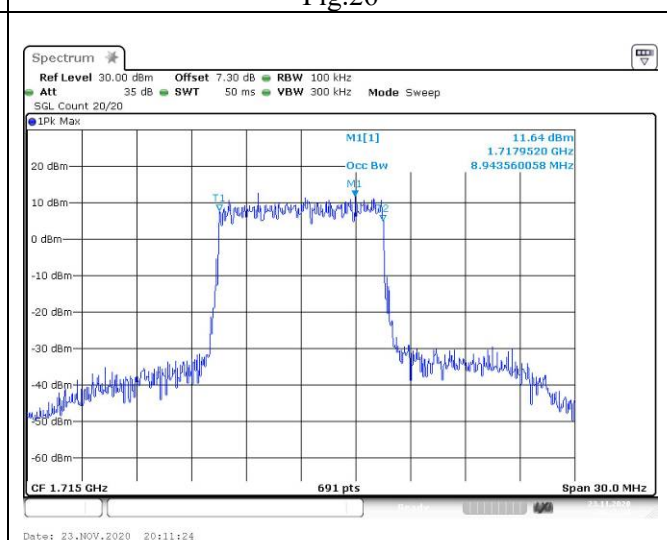


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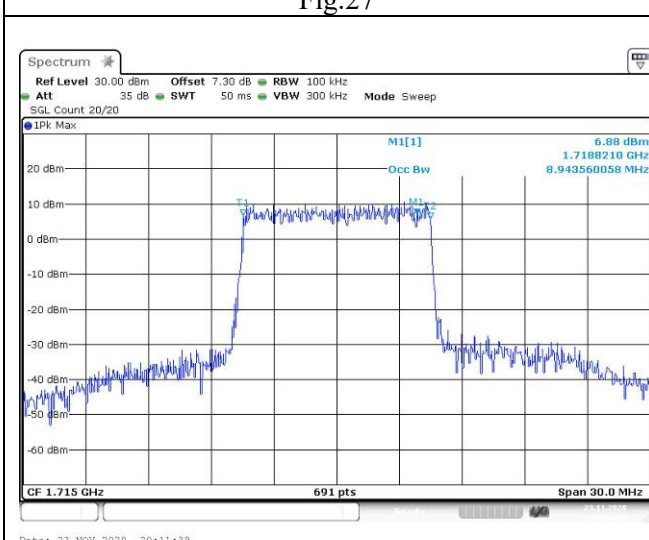


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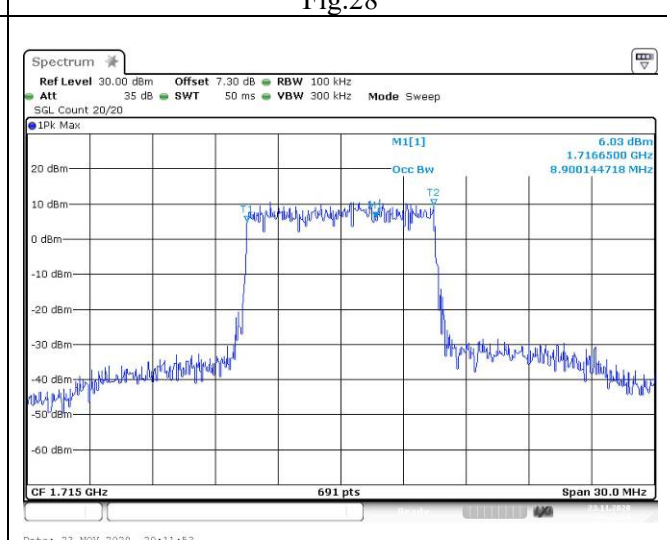


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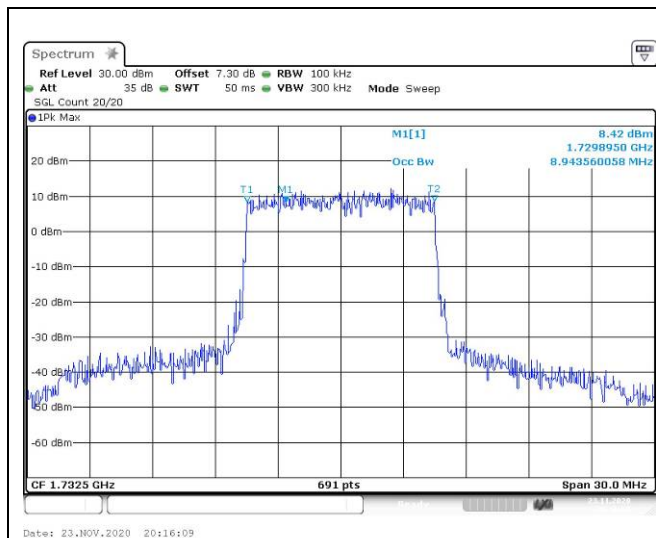


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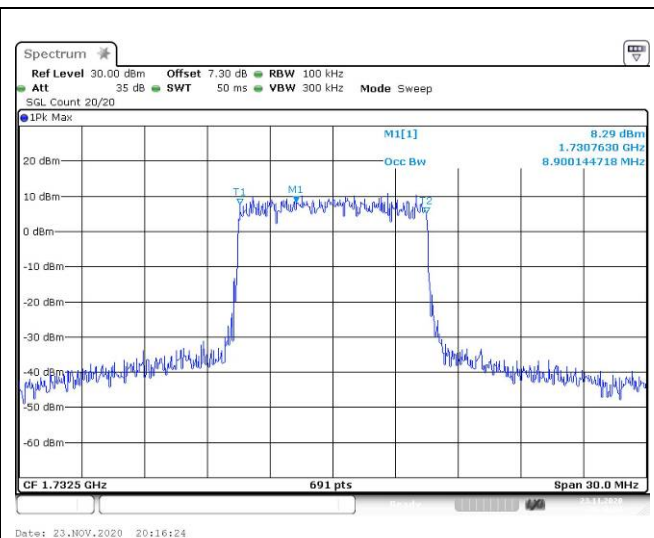


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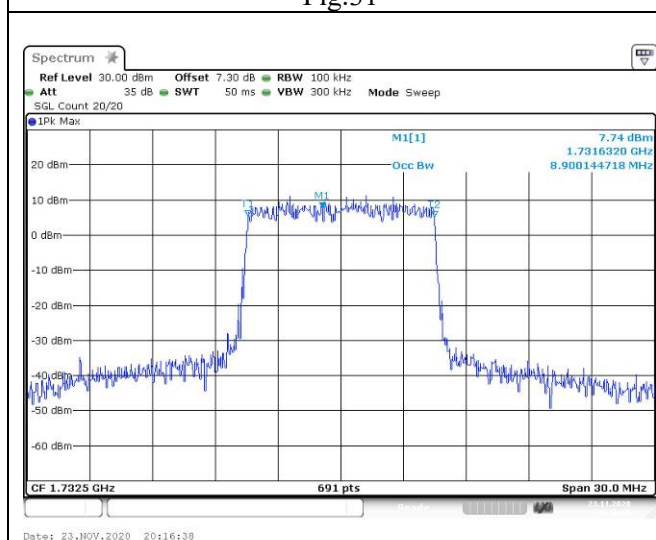


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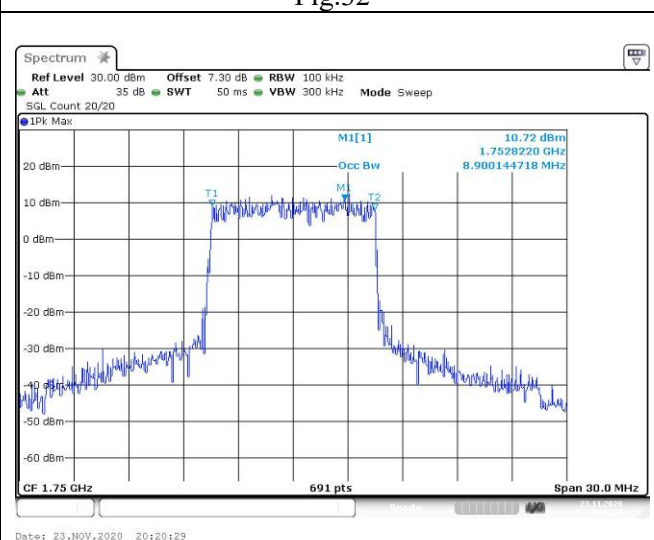


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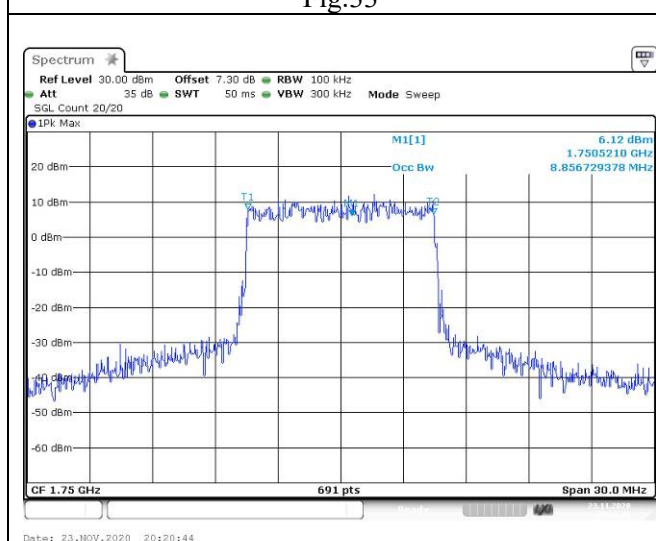


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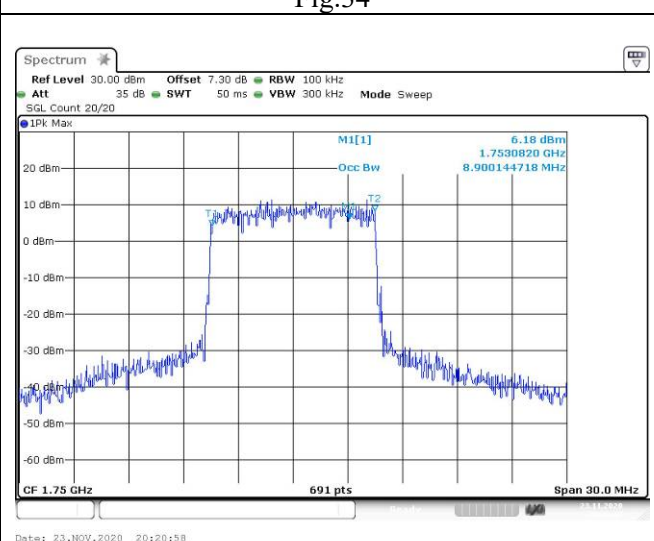


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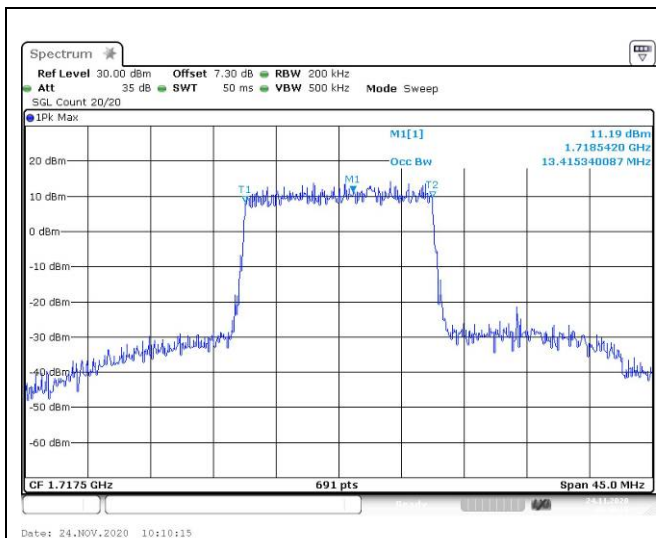


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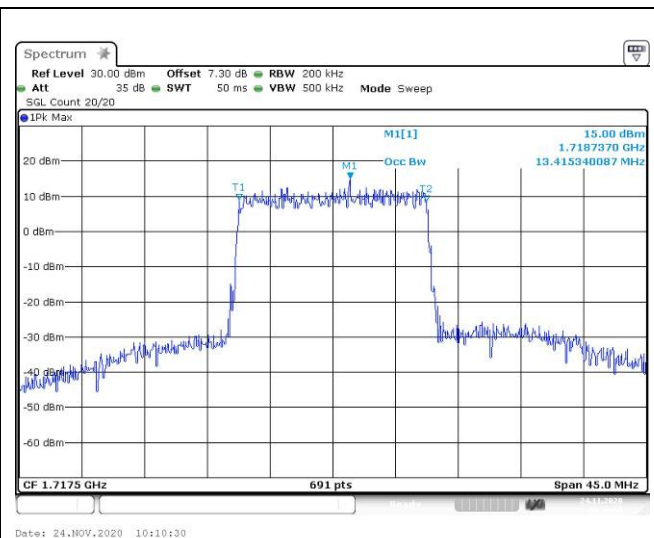


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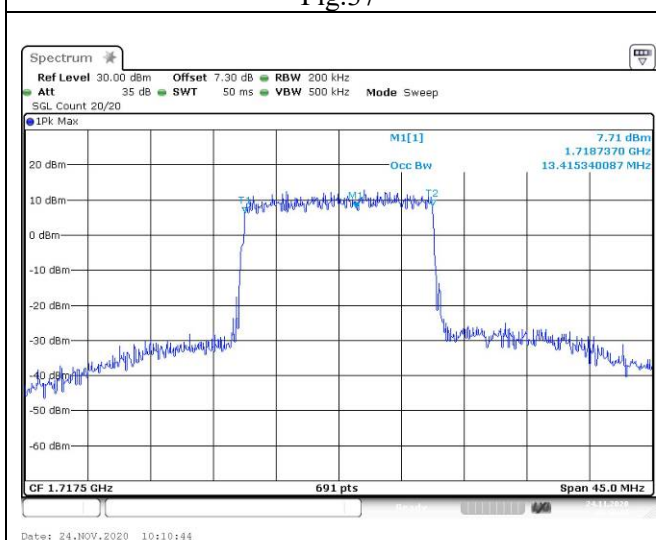


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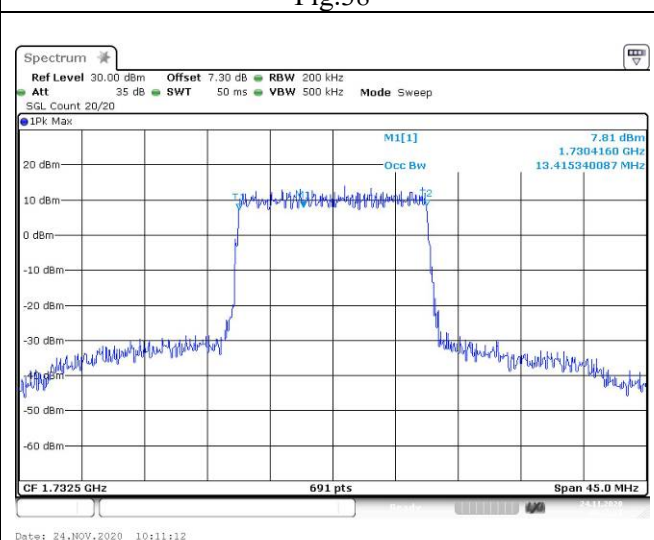


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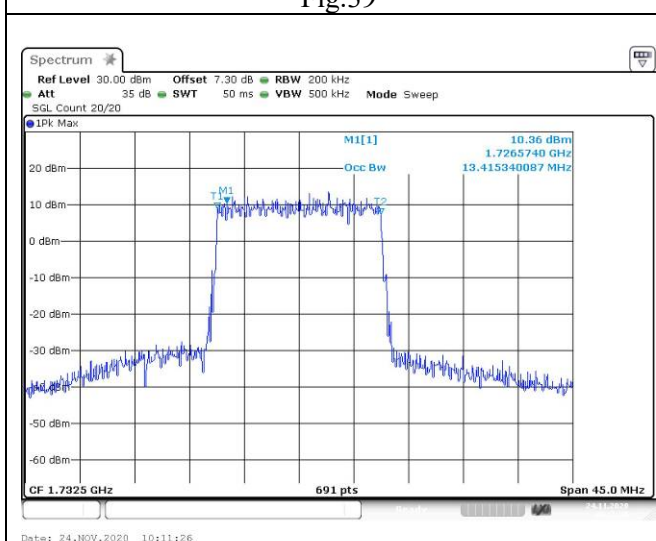


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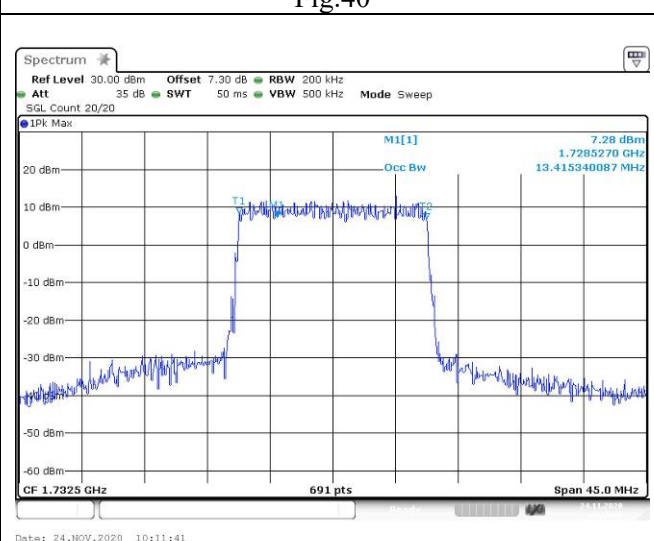


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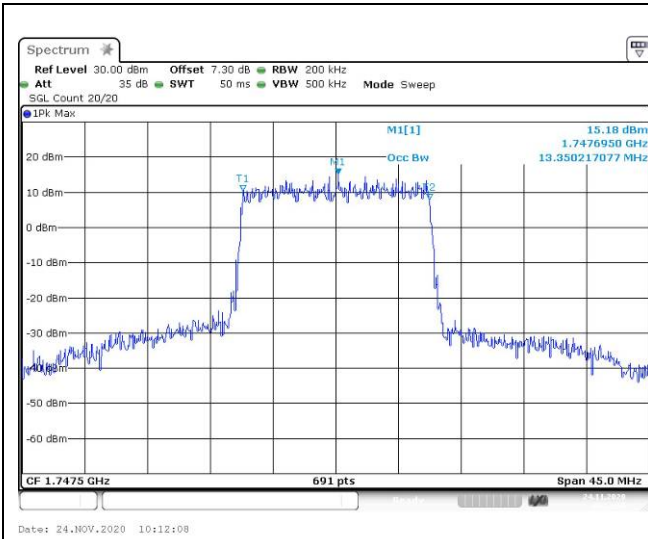


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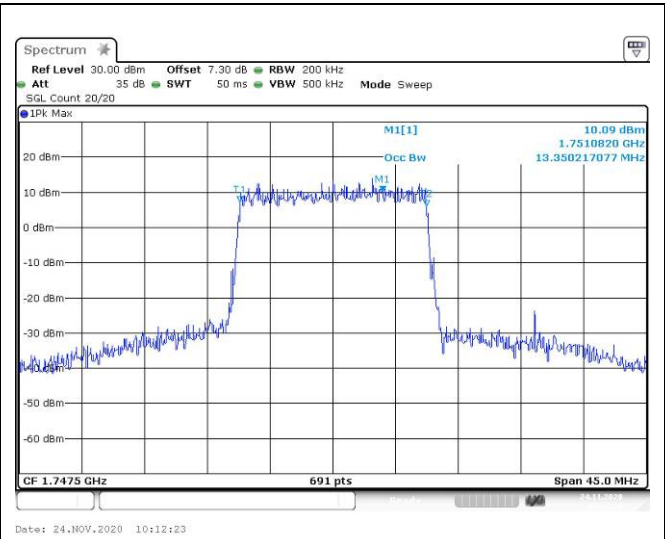


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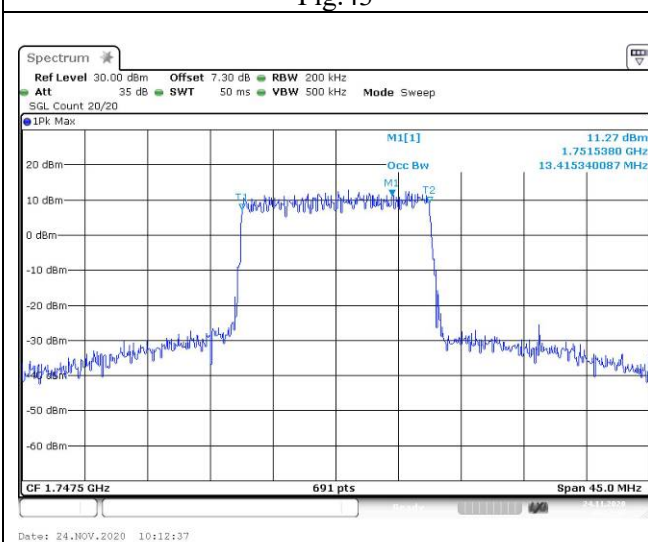


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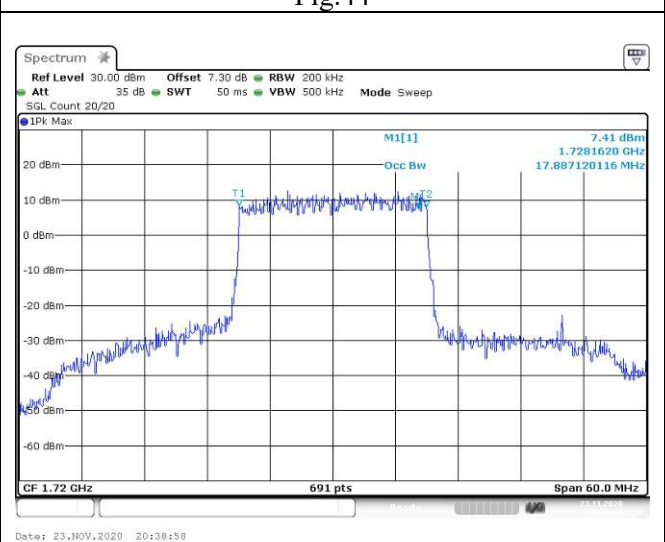


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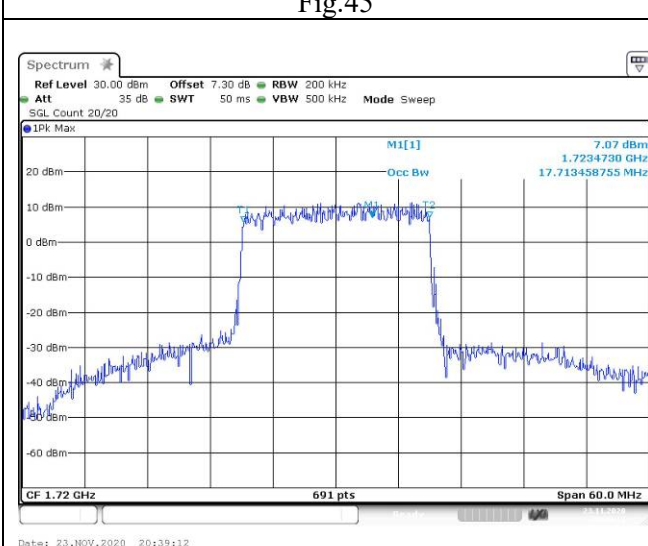


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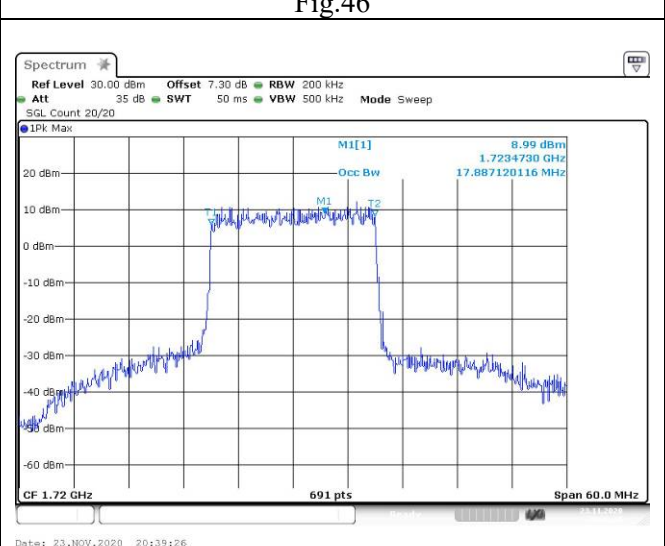


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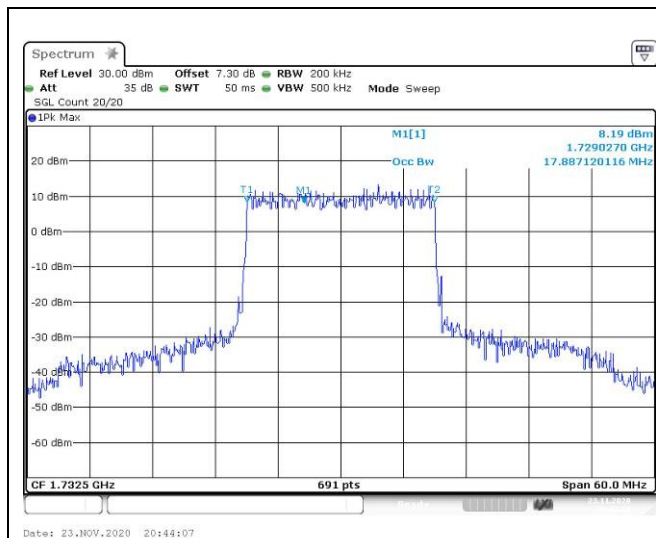


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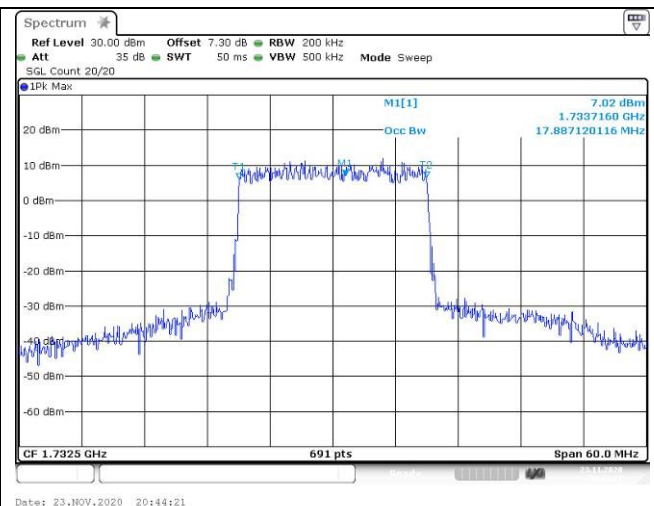


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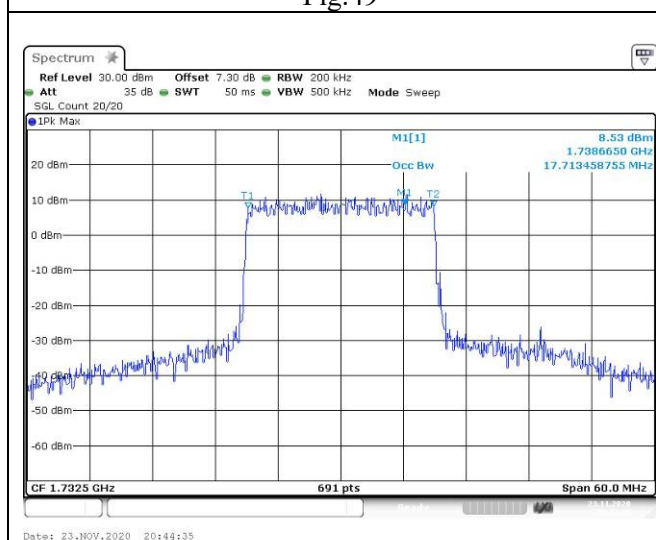


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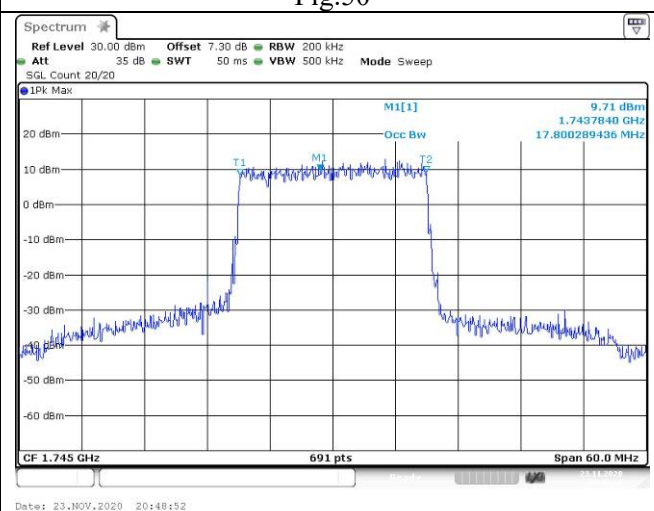


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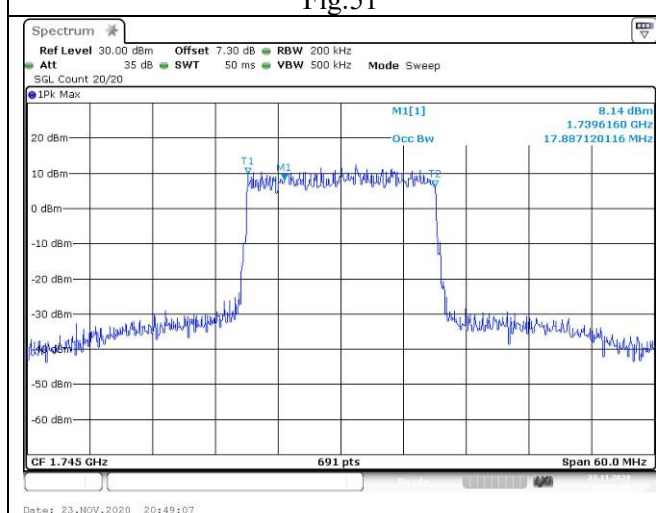


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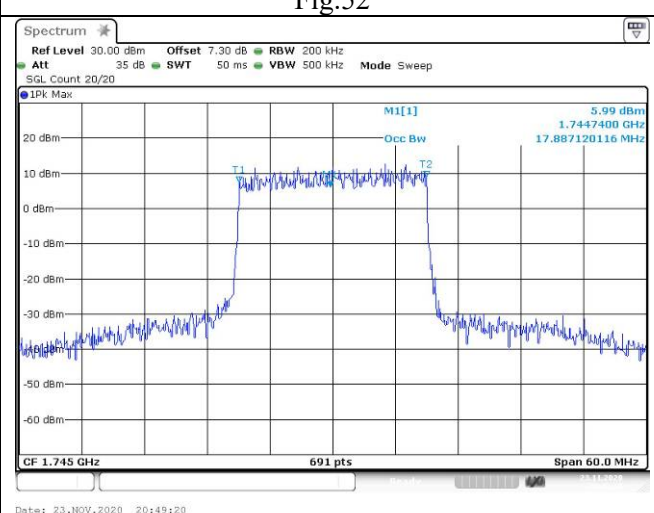


Fig.54

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	
4	1710.7	19957	1.4	6	0	1.204	Fig.1	1.210	Fig.2	1.216	Fig.3
	1732.5	20175		6	0	1.216	Fig.4	1.222	Fig.5	1.216	Fig.6
	1754.3	20393		6	0	1.216	Fig.7	1.204	Fig.8	1.210	Fig.9
	1711.5	19965	3	15	0	2.931	Fig.10	2.918	Fig.11	2.904	Fig.12
	1732.5	20175		15	0	2.891	Fig.13	2.918	Fig.14	2.931	Fig.15
	1753.5	20385		15	0	2.931	Fig.16	2.944	Fig.17	2.944	Fig.18
	1712.5	19975	5	25	0	4.884	Fig.19	4.776	Fig.20	4.797	Fig.21
	1732.5	20175		25	0	4.884	Fig.19	4.797	Fig.20	4.841	Fig.21
	1752.5	20375		25	0	4.863	Fig.22	4.863	Fig.23	4.884	Fig.24
	1715	20000	10	50	0	9.682	Fig.25	9.595	Fig.26	9.551	Fig.27
	1732.5	20175		50	0	9.638	Fig.28	9.551	Fig.29	9.551	Fig.30
	1750	20350		50	0	9.595	Fig.31	9.551	Fig.32	9.595	Fig.33
	1717.5	20025	15	75	0	14.522	Fig.34	14.522	Fig.35	14.457	Fig.36
	1732.5	20175		75	0	14.588	Fig.37	14.522	Fig.38	14.522	Fig.39
	1747.5	20325		75	0	14.522	Fig.40	14.457	Fig.41	14.457	Fig.42
	1720	20050	20	100	0	19.016	Fig.43	19.016	Fig.44	19.016	Fig.45
	1732.5	20175		100	0	19.190	Fig.46	19.103	Fig.47	19.103	Fig.48
	1745	20300		100	0	19.016	Fig.49	19.103	Fig.50	19.190	Fig.51

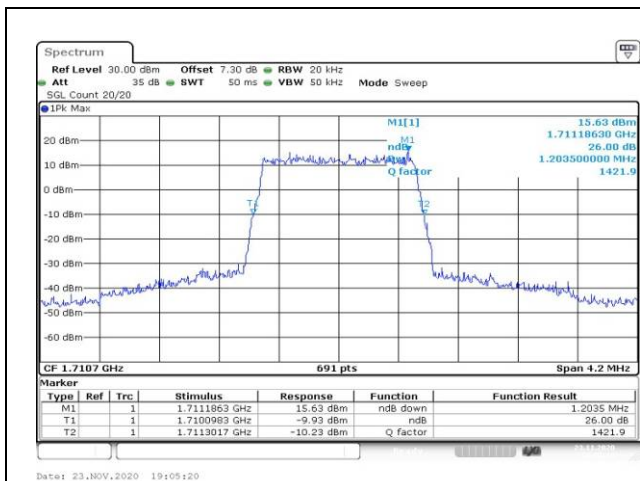


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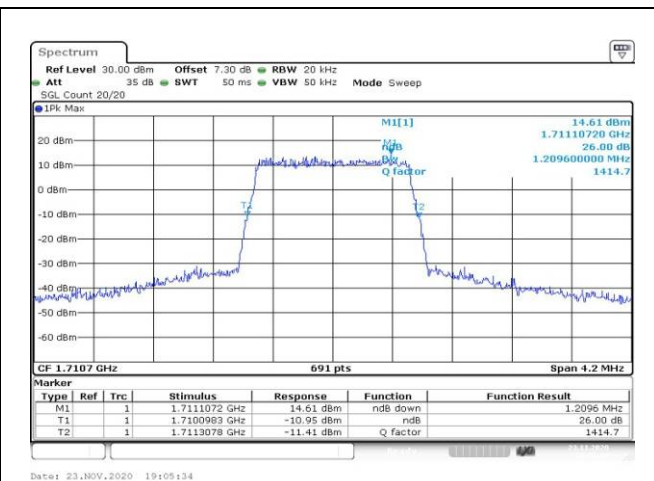


Fig.2

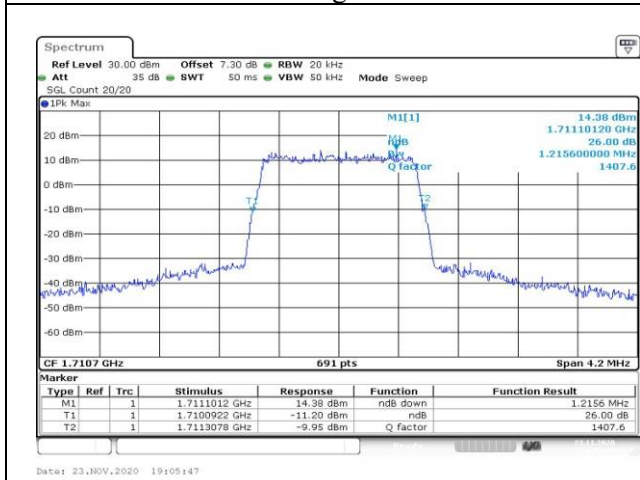


Fig.3

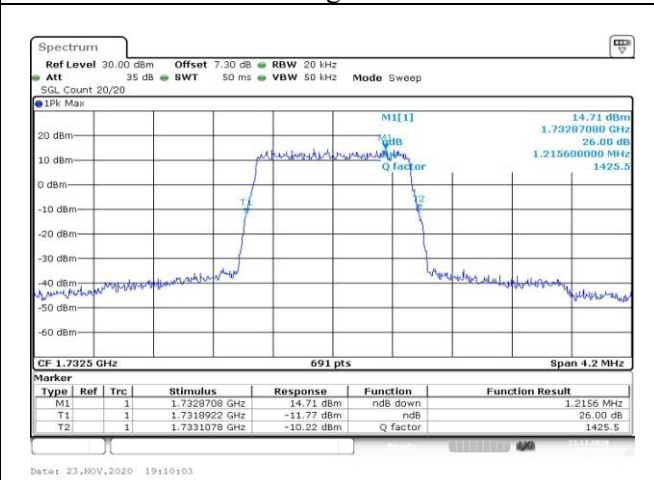


Fig.4

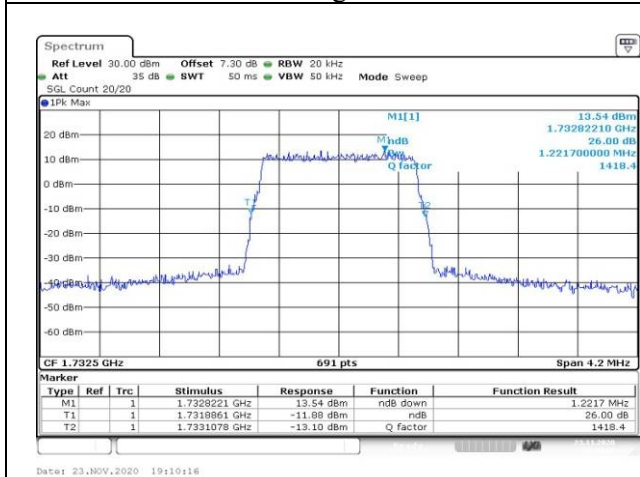


Fig.5

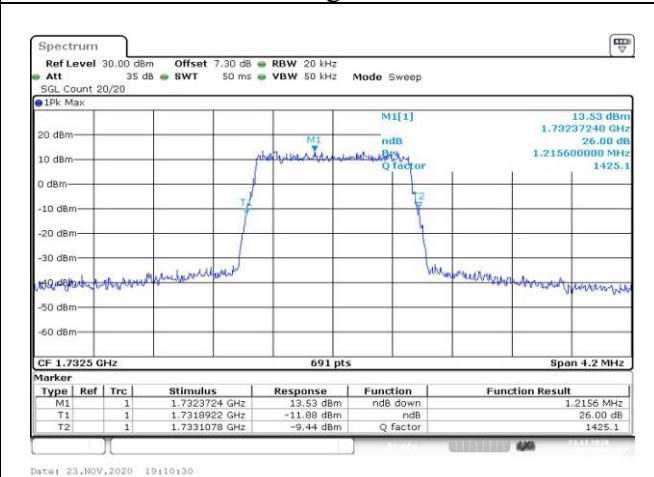


Fig.6

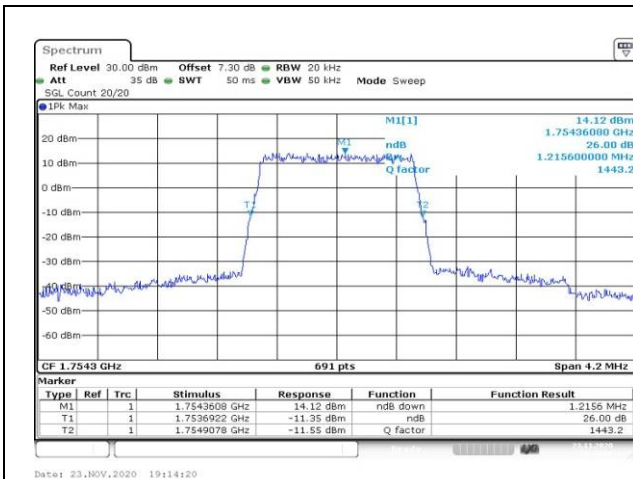


Fig.7

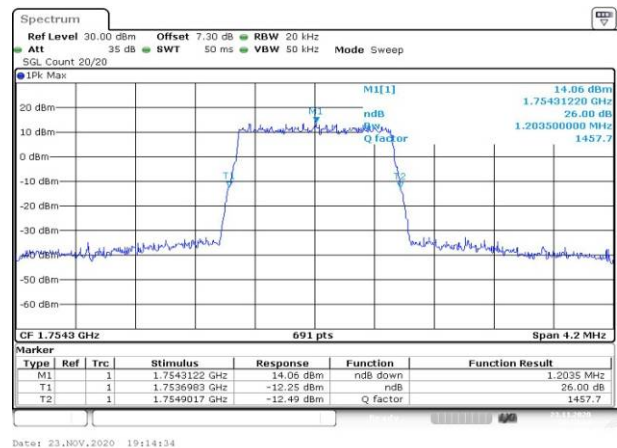


Fig.8

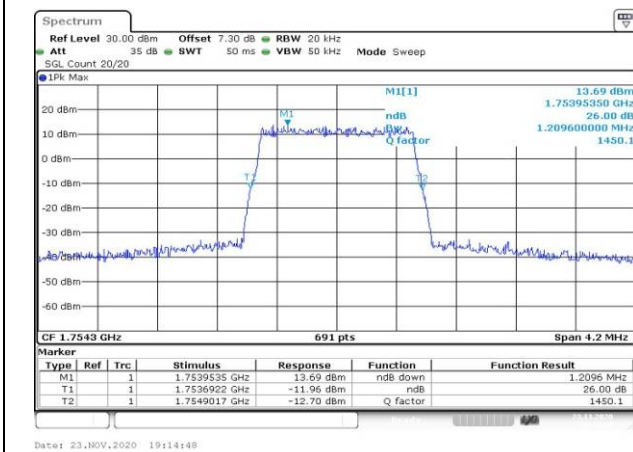


Fig.9

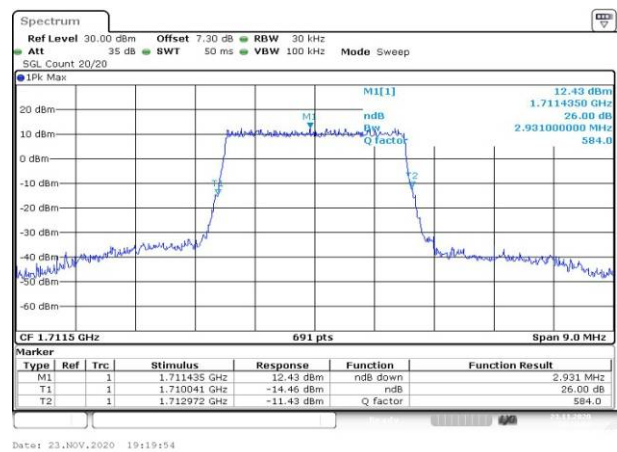


Fig.10

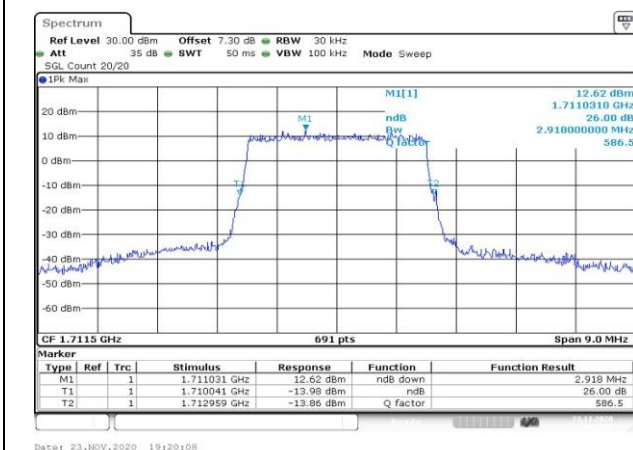


Fig.11

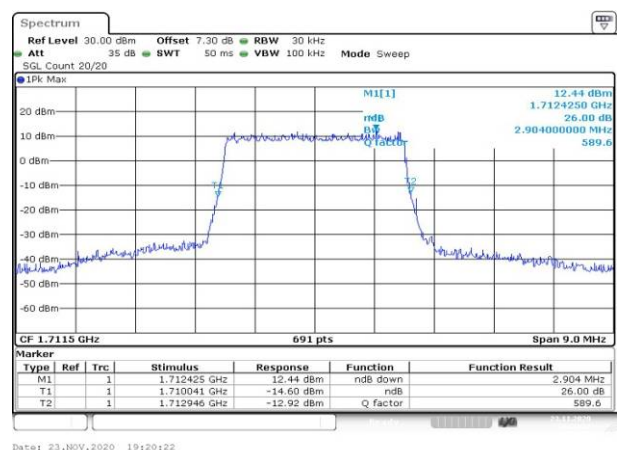


Fig.12

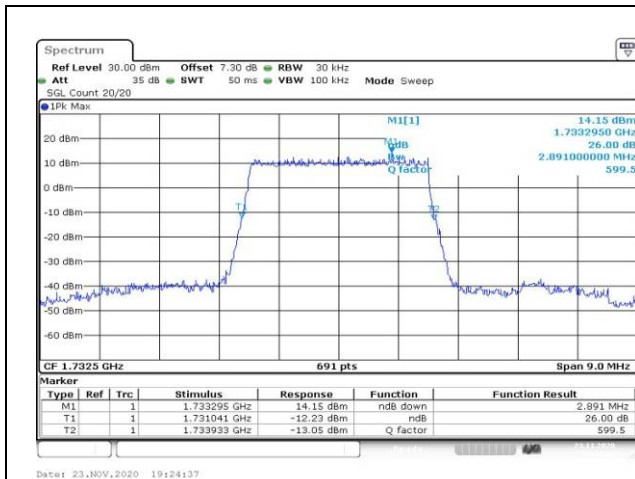


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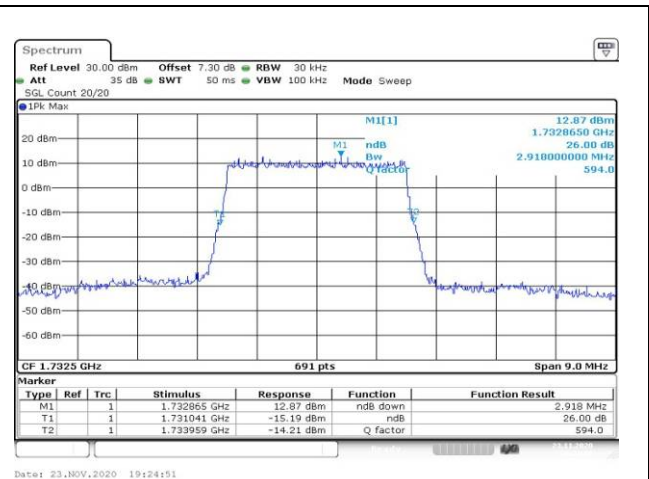


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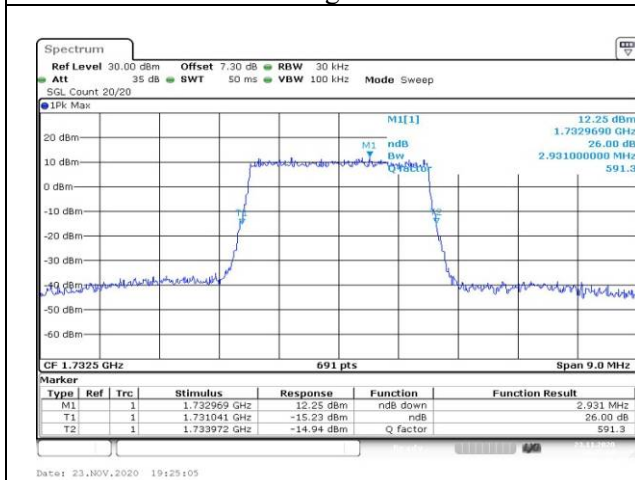


Fig.15

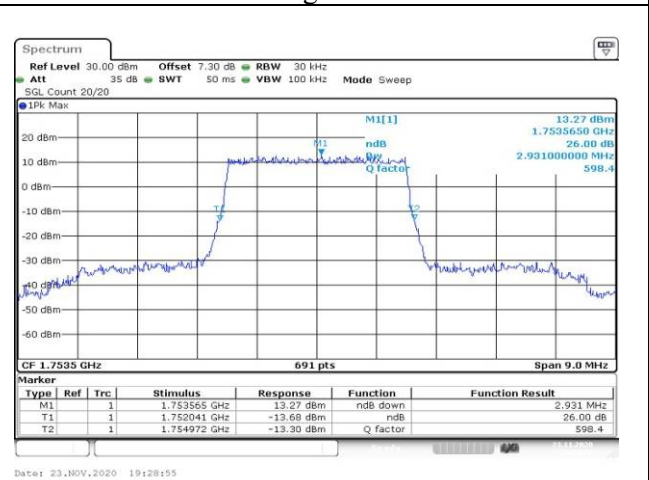


Fig.16

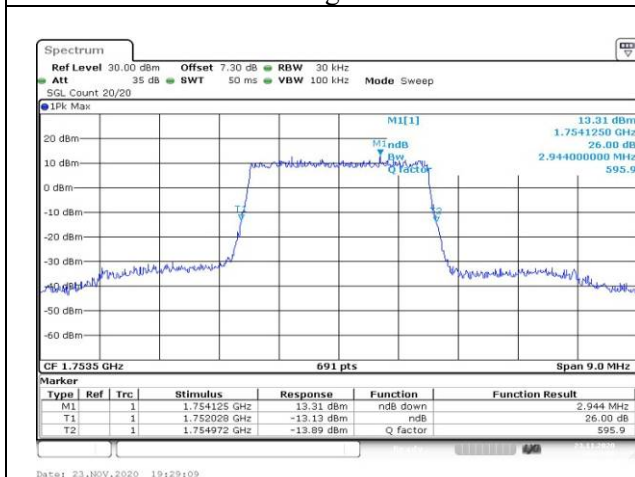


Fig.17



Fig.18

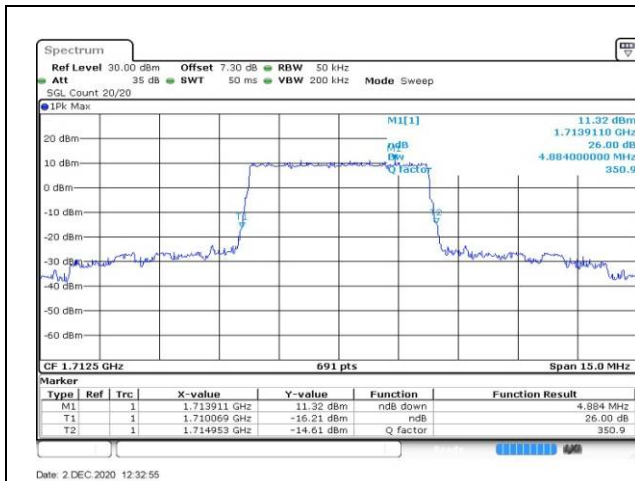


Fig.19

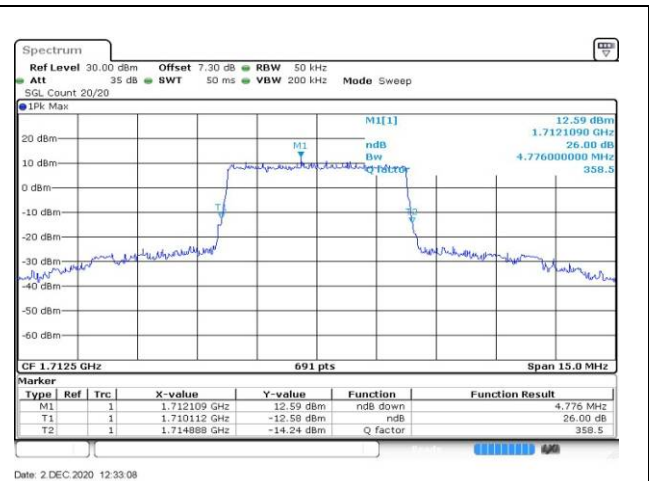


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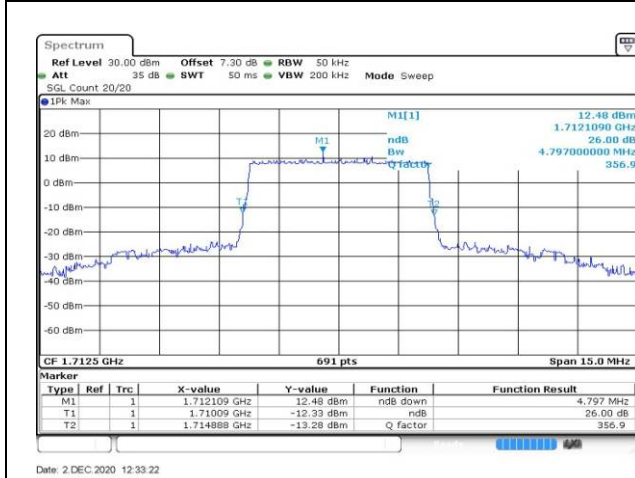


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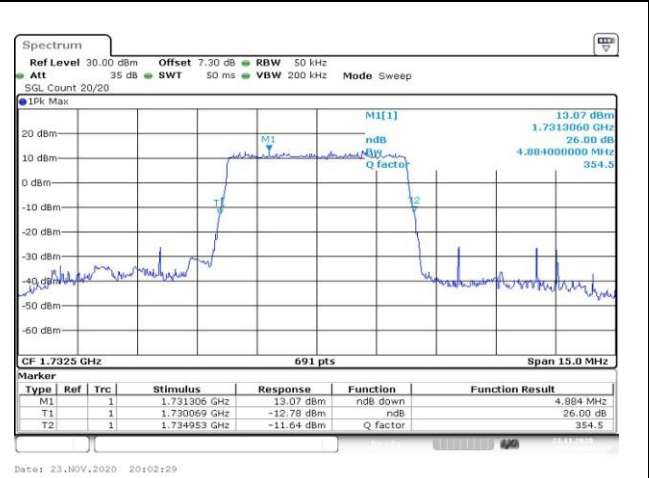


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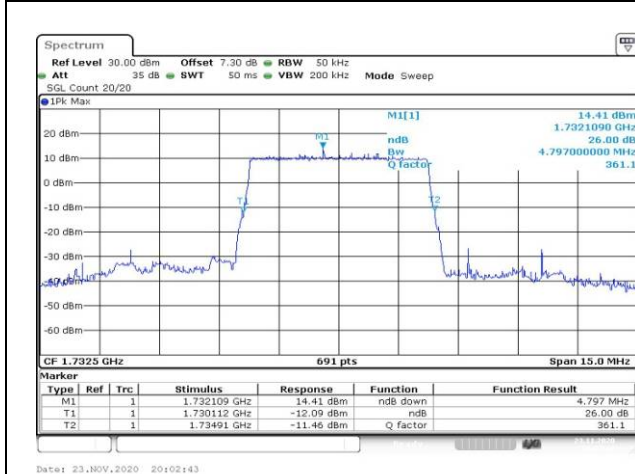


Fig.23

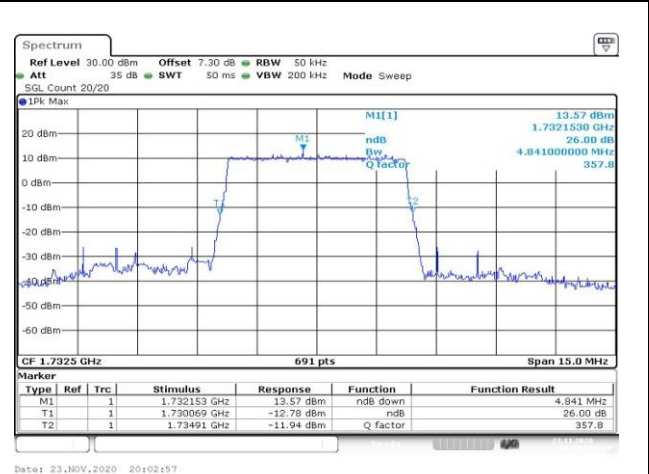


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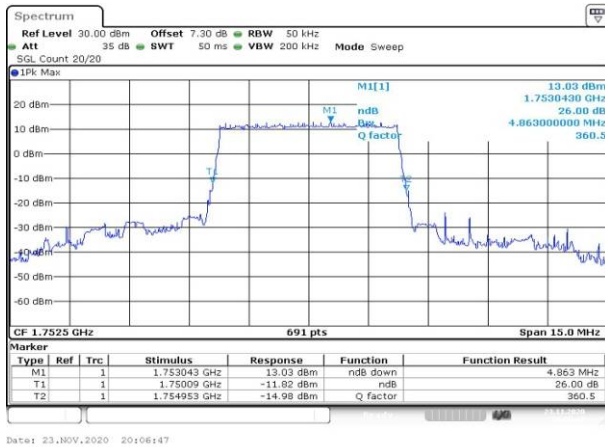


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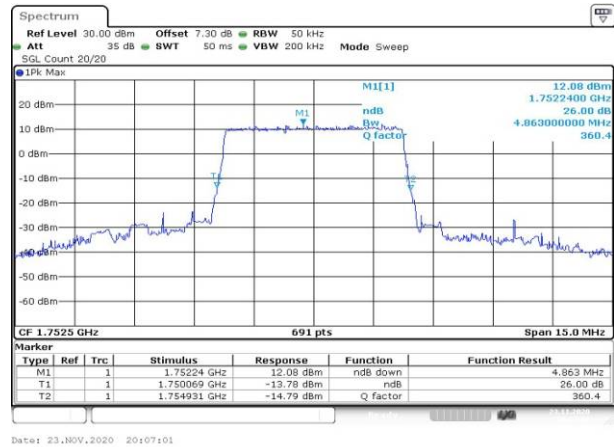


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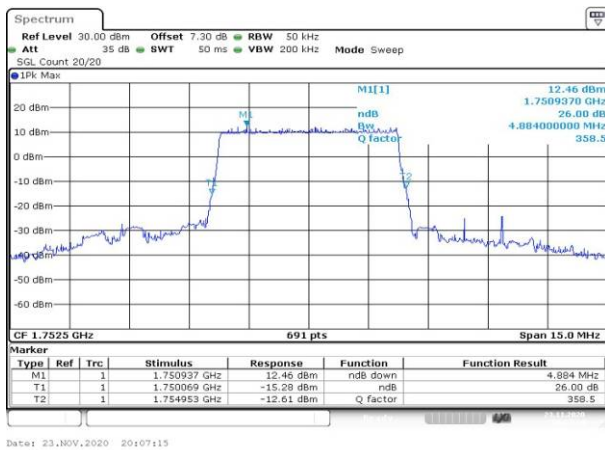


Fig.27

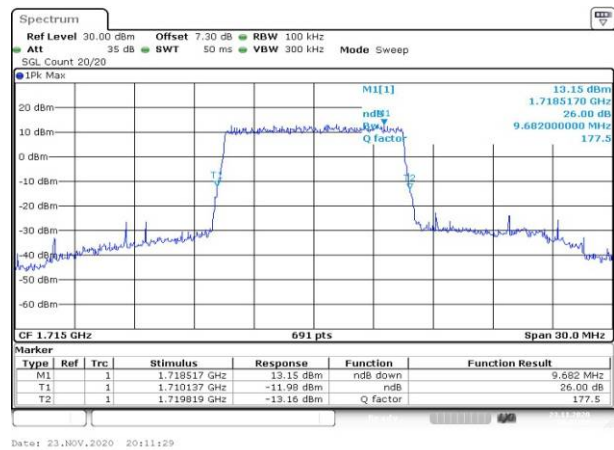


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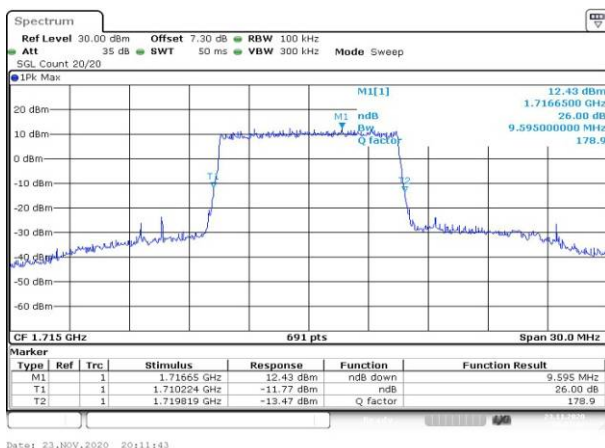


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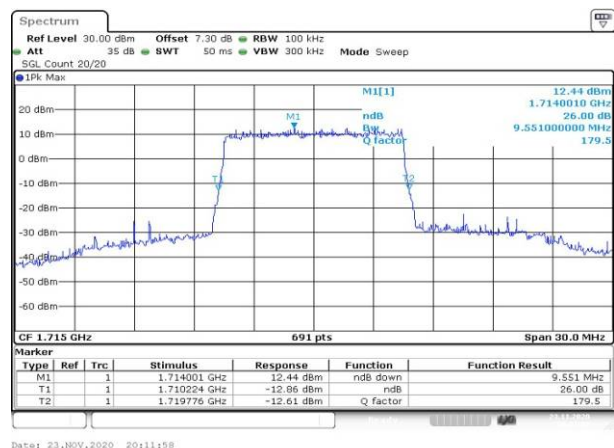


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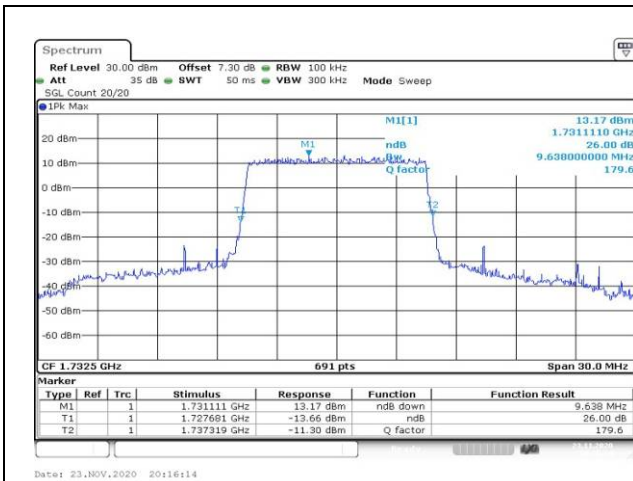


Fig.31



Fig.32

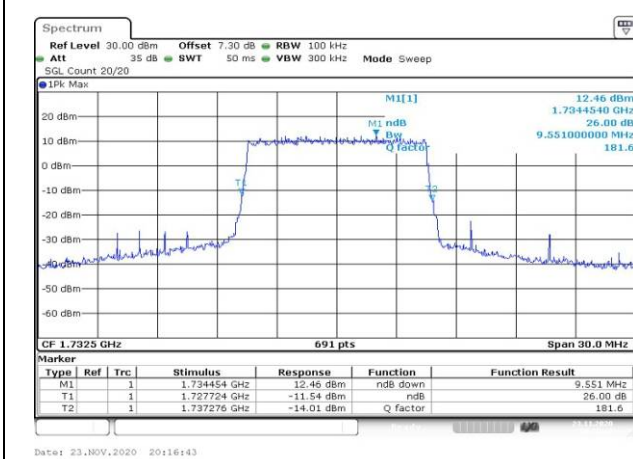


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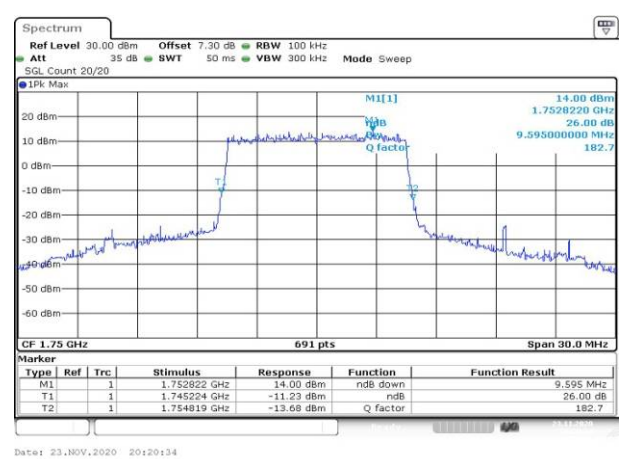


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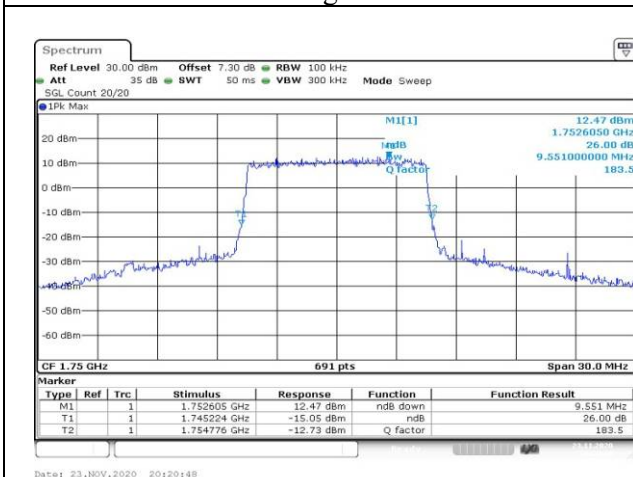


Fig.35



Fig.36

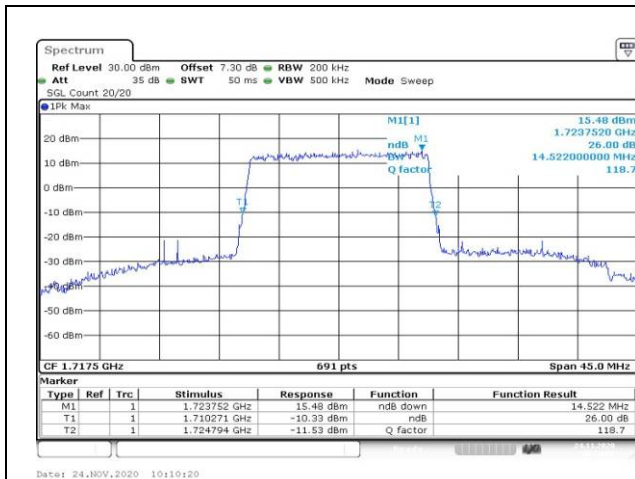


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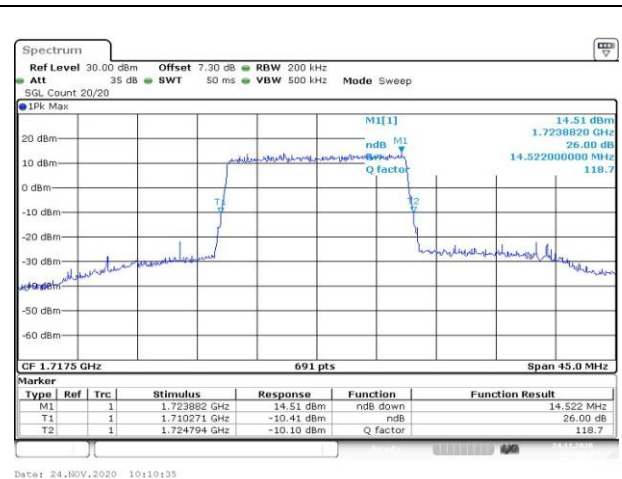


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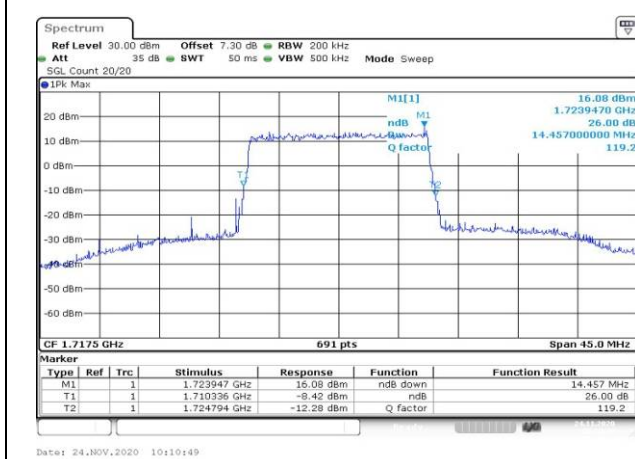


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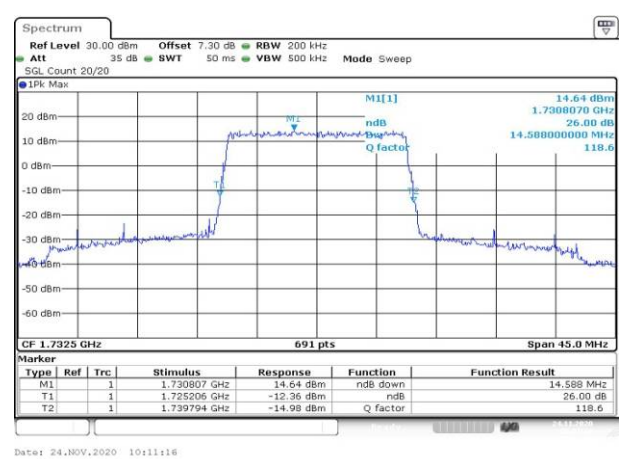


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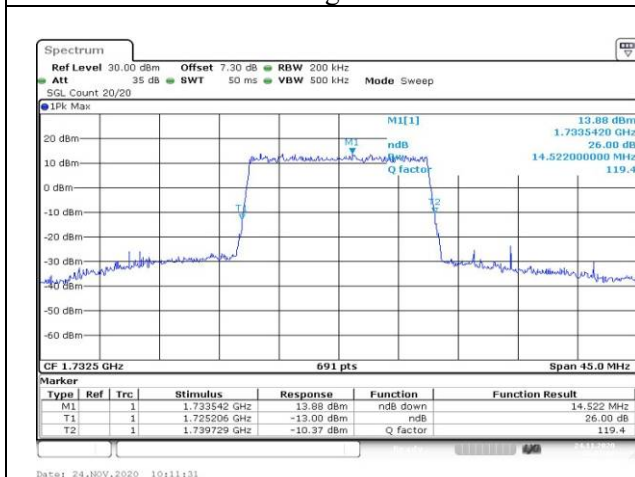


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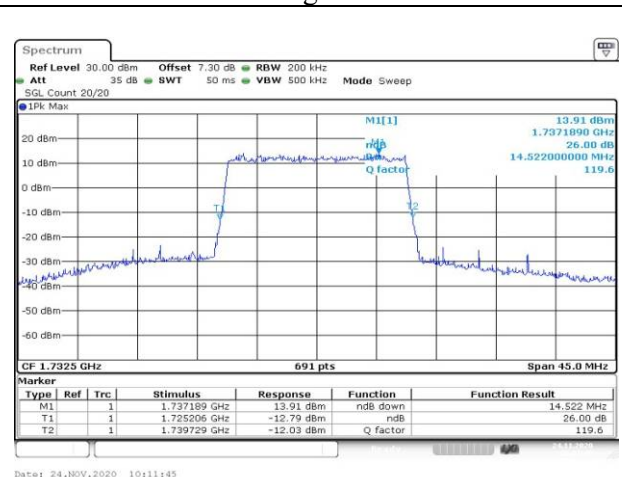


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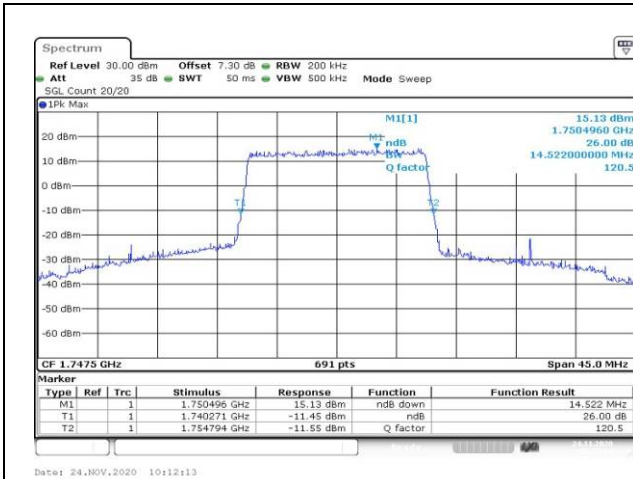


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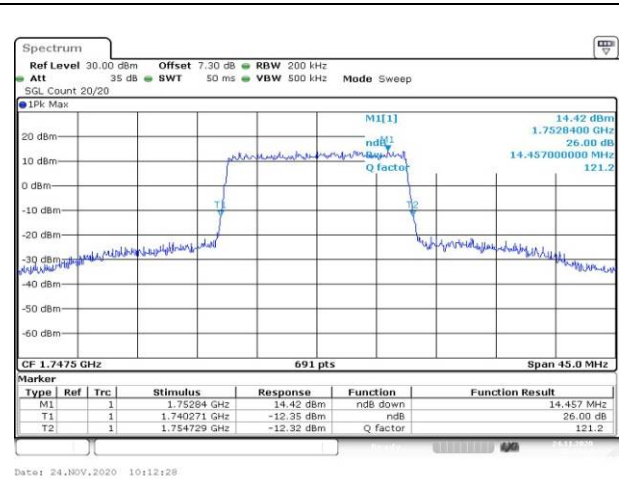


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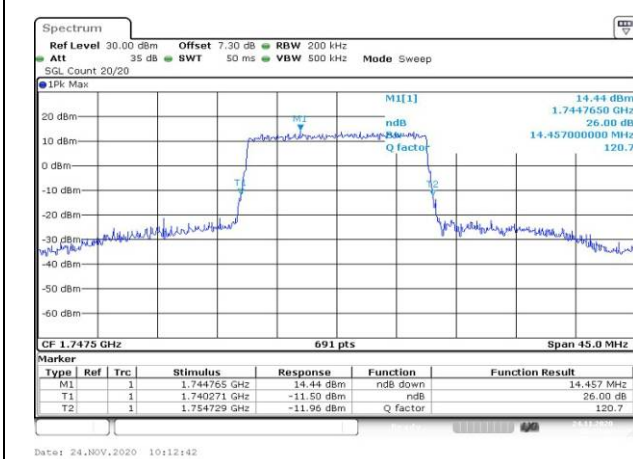


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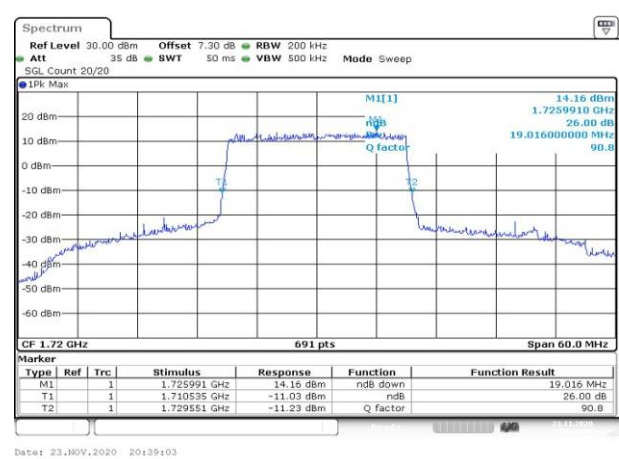


Fig.46



Fig.47



Fig.48

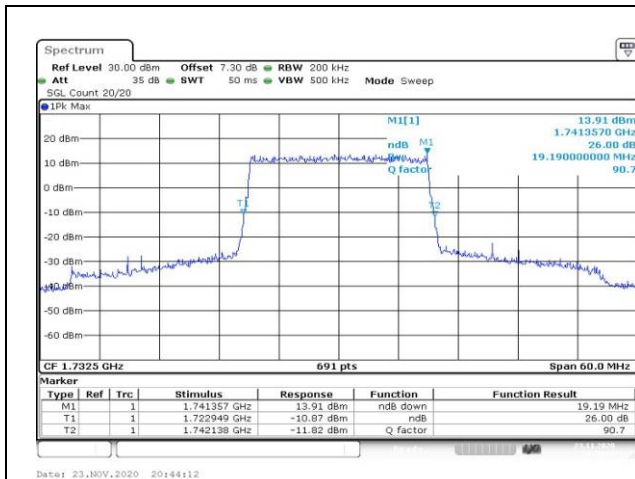


Fig.49

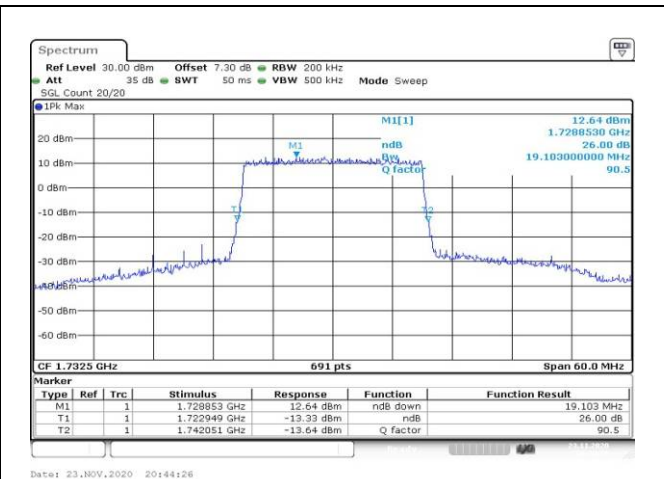


Fig.50

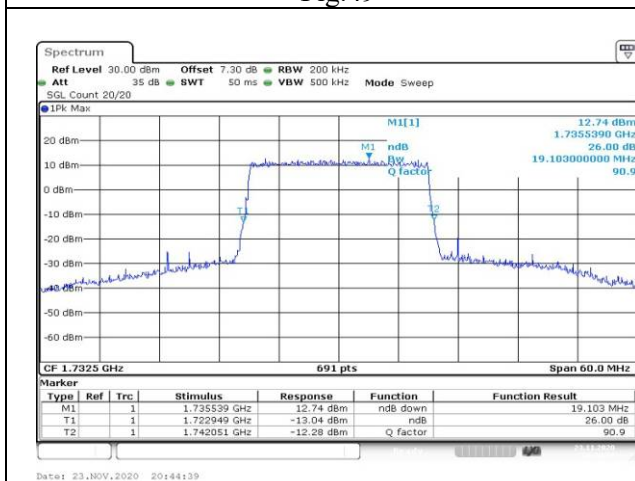


Fig.51

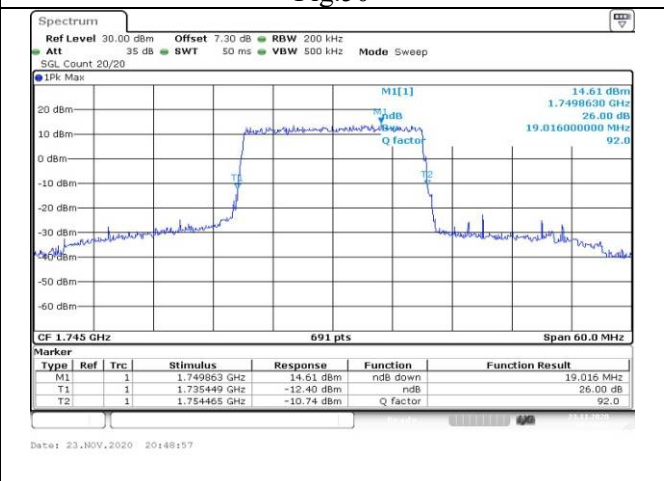


Fig.52

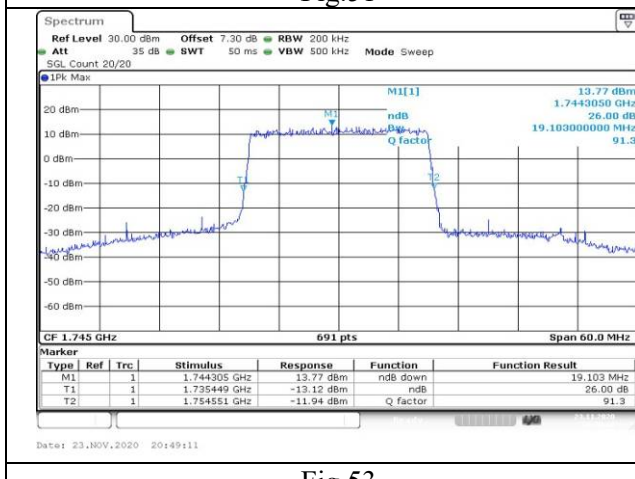


Fig.53

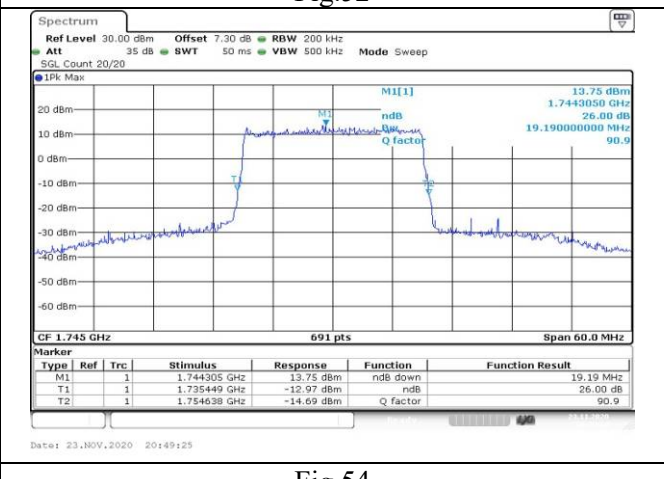


Fig.54

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
4	1710.7	19957	1.4	1	5	Fig.1	Fig.2	Fig.3
	1710.7	19957		6	0	Fig.4	Fig.5	Fig.6
	1732.5	20175		1	5	Fig.7	Fig.8	Fig.9
	1732.5	20175		6	0	Fig.10	Fig.11	Fig.12
	1754.3	20393		1	5	Fig.13	Fig.14	Fig.15
	1754.3	20393		6	0	Fig.16	Fig.17	Fig.18
	1711.5	19965	3	1	14	Fig.19	Fig.20	Fig.21
	1711.5	19965		15	0	Fig.22	Fig.23	Fig.24
	1732.5	20175		1	14	Fig.25	Fig.26	Fig.27
	1732.5	20175		15	0	Fig.28	Fig.29	Fig.30
	1753.5	20385		1	14	Fig.31	Fig.32	Fig.33
	1753.5	20385		15	0	Fig.34	Fig.35	Fig.36
	1712.5	19975	5	1	24	Fig.37	Fig.38	Fig.39
	1712.5	19975		25	0	Fig.40	Fig.41	Fig.42
	1732.5	20175		1	24	Fig.43	Fig.44	Fig.45
	1732.5	20175		25	0	Fig.46	Fig.47	Fig.48
	1752.5	20375		1	24	Fig.49	Fig.50	Fig.51
	1752.5	20375		25	0	Fig.52	Fig.53	Fig.54
	1715	20000	10	1	49	Fig.55	Fig.56	Fig.57
	1715	20000		50	0	Fig.58	Fig.59	Fig.60
	1732.5	20175		1	49	Fig.61	Fig.62	Fig.63
	1732.5	20175		50	0	Fig.64	Fig.65	Fig.66
	1750	20350		1	49	Fig.67	Fig.68	Fig.69
	1750	20350		50	0	Fig.70	Fig.71	Fig.72
	1717.5	20025	15	1	74	Fig.73	Fig.74	Fig.75
	1717.5	20025		75	0	Fig.76	Fig.77	Fig.78
	1732.5	20175		1	74	Fig.79	Fig.80	Fig.81
	1732.5	20175		75	0	Fig.82	Fig.83	Fig.84
	1747.5	20325		1	74	Fig.85	Fig.86	Fig.87
	1747.5	20325		75	0	Fig.88	Fig.89	Fig.90
	1720	20050	20	1	99	Fig.91	Fig.92	Fig.93
	1720	20050		100	0	Fig.94	Fig.95	Fig.96
	1732.5	20175		1	99	Fig.97	Fig.98	Fig.99
	1732.5	20175		100	0	Fig.100	Fig.101	Fig.102
	1745	20300		1	99	Fig.103	Fig.104	Fig.105
	1745	20300		100	0	Fig.106	Fig.107	Fig.108