

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	21.95
				1	3	21.92
				1	5	21.93
				3	0	21.98
				3	1	21.95
				3	3	21.94
	6	0		21.05		
	1	0		21.86		
	1	3		21.83		
	1	5		21.82		
	3	0		21.85		
	3	1		21.83		
	3	3		21.83		
	6	0		20.94		
	1	0		21.84		
	1	3		22.03		
	1	5		22.01		
	3	0		22.01		
3	1	21.97				
3	3	21.96				
6	0	21.08				
16QAM	1710.7	19957	1	0	21.13	
			1	3	21.09	
			1	5	21.14	
			3	0	21.24	
			3	1	21.25	
			3	3	21.23	
	6	0	20.07			
	1	0	21.02			
	1	3	21.05			
	1	5	21.05			
	3	0	20.84			
	3	1	20.88			
	3	3	20.86			
	6	0	19.95			
	1	0	21.16			
	1	3	21.18			
	1	5	21.12			
	3	0	20.97			
3	1	20.96				
3	3	21.01				
6	0	20.19				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	20.07
				1	3	20.06
				1	5	20.12
				3	0	20.09
				3	1	20.11
				3	3	20.08
				6	0	20.10
	1732.5	20175		1	0	19.98
				1	3	19.98
				1	5	19.95
				3	0	19.94
				3	1	19.95
				3	3	19.94
				6	0	19.94
	1754.3	20393		1	0	20.14
				1	3	20.16
				1	5	20.10
				3	0	20.15
				3	1	20.16
				3	3	20.13
				6	0	20.16

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	22.20
				1	8	22.11
				1	14	22.12
				8	0	21.23
				8	4	21.31
				8	7	21.26
	1732.5	20175		15	0	21.21
				1	0	21.99
				1	8	22.02
				1	14	22.01
				8	0	21.03
				8	4	21.12
	1753.5	20385		8	7	21.07
				15	0	21.07
				1	0	22.19
				1	8	22.18
				1	14	22.18
				8	0	21.34
16QAM	1711.5	19965	8	4	21.29	
			8	7	21.28	
			15	0	21.28	
			1	0	21.84	
			1	8	21.86	
			1	14	21.76	
	1732.5	20175	8	0	20.47	
			8	4	20.39	
			8	7	20.39	
			15	0	20.34	
			1	0	21.18	
			1	8	21.23	
	1753.5	20385	1	14	21.16	
			8	0	20.03	
			8	4	20.07	
			8	7	20.07	
			15	0	19.98	
			1	0	21.38	
			1	8	21.40	
			1	14	21.40	
			8	0	20.34	
			8	4	20.30	
			8	7	20.29	
			15	0	20.38	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	20.34
				1	8	20.35
				1	14	20.35
				8	0	20.30
				8	4	20.34
				8	7	20.34
				15	0	20.34
	1732.5	20175		1	0	19.99
				1	8	19.99
				1	14	20.08
				8	0	20.02
				8	4	19.98
				8	7	19.99
				15	0	19.99
	1753.5	20385		1	0	20.35
				1	8	20.34
				1	14	20.35
				8	0	20.34
				8	4	20.38
				8	7	20.41
				15	0	20.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	22.26
				1	12	22.09
				1	24	22.16
				12	0	21.31
				12	7	21.20
				12	13	21.20
	1732.5	20175		25	0	21.23
				1	0	21.95
				1	12	21.97
				1	24	22.06
				12	0	21.04
				12	7	21.09
	1752.5	20375		12	13	21.09
				25	0	21.08
				1	0	22.20
				1	12	22.20
				1	24	22.20
				12	0	21.29
16QAM	1712.5	19975	12	7	21.28	
			12	13	21.29	
			25	0	21.28	
			1	0	21.23	
			1	12	21.30	
			1	24	21.18	
	1732.5	20175	12	0	20.24	
			12	7	20.27	
			12	13	20.26	
			25	0	20.28	
			1	0	21.01	
			1	12	21.03	
	1752.5	20375	1	24	21.14	
			12	0	20.05	
			12	7	20.09	
			12	13	20.18	
			25	0	20.11	
			1	0	21.55	
			1	12	21.60	
			1	24	21.61	
			12	0	20.38	
			12	7	20.34	
			12	13	20.34	
			25	0	20.36	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	20.29
				1	12	20.28
				1	24	20.39
				12	0	20.34
				12	7	20.34
				12	13	20.27
				25	0	20.34
	1732.5	20175		1	0	20.16
				1	12	20.14
				1	24	20.11
				12	0	20.11
				12	7	20.17
				12	13	20.13
				25	0	20.14
	1752.5	20375		1	0	20.31
				1	12	20.33
				1	24	20.31
				12	0	20.32
				12	7	20.33
				12	13	20.29
				25	0	20.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	22.21
				1	25	22.02
				1	49	22.18
				25	0	21.29
				25	12	21.27
				25	25	21.24
	1732.5	20175		50	0	21.23
				1	0	22.04
				1	25	22.03
				1	49	22.06
				25	0	21.08
				25	12	21.19
	1750	20350		25	25	21.13
				50	0	21.14
				1	0	22.06
				1	25	22.13
				1	49	22.19
				25	0	21.17
16QAM	1715	20000	25	12	21.26	
			25	25	21.31	
			50	0	21.20	
			1	0	21.80	
			1	25	21.63	
			1	49	21.66	
	1732.5	20175	25	0	20.37	
			25	12	20.22	
			25	25	20.28	
			50	0	20.27	
			1	0	21.29	
			1	25	21.21	
	1750	20350	1	49	21.22	
			25	0	20.11	
			25	12	20.14	
			25	25	20.16	
			50	0	20.11	
			1	0	21.21	
			1	25	21.32	
			1	49	21.29	
			25	0	20.27	
			25	12	20.45	
			25	25	20.43	
			50	0	20.28	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	20.29
				1	25	20.27
				1	49	20.23
				25	0	20.26
				25	12	20.34
				25	25	20.36
				50	0	20.30
	1732.5	20175		1	0	20.04
				1	25	20.02
				1	49	20.08
				25	0	20.00
				25	12	20.08
				25	25	20.11
				50	0	20.11
	1750	20350		1	0	20.26
				1	25	20.24
				1	49	20.30
				25	0	20.20
				25	12	20.27
				25	25	20.22
				50	0	20.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	22.10
				1	37	21.99
				1	74	22.02
				36	0	21.23
				36	29	21.12
				36	30	21.06
	1732.5	20175		75	0	21.03
				1	0	22.01
				1	37	21.95
				1	74	21.95
				36	0	20.97
				36	29	21.07
	1747.5	20325		36	30	21.07
				75	0	20.98
				1	0	22.02
				1	37	22.11
				1	74	22.16
				36	0	21.05
16QAM	1717.5	20025	36	29	21.19	
			36	30	21.14	
			75	0	21.05	
			1	0	21.84	
			1	37	21.68	
			1	74	21.55	
	1732.5	20175	36	0	20.27	
			36	29	20.08	
			36	30	20.14	
			75	0	20.10	
			1	0	21.23	
			1	37	21.21	
	1747.5	20325	1	74	21.12	
			36	0	20.02	
			36	29	20.06	
			36	30	20.04	
			75	0	19.99	
			1	0	21.54	
			1	37	21.70	
			1	74	21.49	
			36	0	20.09	
			36	29	20.16	
			36	30	20.21	
			75	0	20.07	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	20.06
				1	37	20.12
				1	74	20.13
				36	0	20.12
				36	29	20.13
				36	30	20.02
				75	0	20.12
	1732.5	20175		1	0	20.02
				1	37	19.97
				1	74	20.05
				36	0	20.00
				36	29	20.01
				36	30	20.06
				75	0	19.90
	1747.5	20325		1	0	20.02
				1	37	20.01
				1	74	20.13
				36	0	20.09
				36	29	20.01
				36	30	20.02
				75	0	20.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	22.09
				1	49	21.90
				1	99	21.98
				50	0	21.06
				50	24	21.06
				50	50	21.14
	1732.5	20175		100	0	21.09
				1	0	22.00
				1	49	22.15
				1	99	21.99
				50	0	21.01
				50	24	21.06
	1745	20300		50	50	21.06
				100	0	20.96
				1	0	21.94
				1	49	22.02
				1	99	22.09
				50	0	21.03
16QAM	1720	20050	50	24	21.18	
			50	50	21.22	
			100	0	21.19	
			1	0	21.37	
			1	49	21.35	
			1	99	21.19	
	1732.5	20175	50	0	20.04	
			50	24	19.95	
			50	50	20.04	
			100	0	20.12	
			1	0	21.31	
			1	49	21.30	
	1745	20300	1	99	21.30	
			50	0	20.03	
			50	24	20.03	
			50	50	20.06	
			100	0	20.02	
			1	0	21.67	
			1	49	21.74	
			1	99	21.71	
			50	0	20.04	
			50	24	20.14	
			50	50	20.16	
			100	0	20.08	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	20.08
				1	49	20.11
				1	99	20.11
				50	0	20.12
				50	24	20.11
				50	50	20.12
				100	0	20.14
	1732.5	20175		1	0	20.04
				1	49	20.00
				1	99	20.00
				50	0	19.96
				50	24	20.00
				50	50	20.00
				100	0	20.03
	1745	20300		1	0	20.08
				1	49	20.14
				1	99	20.13
				50	0	20.09
				50	24	20.08
				50	50	20.19
				100	0	20.18

2 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	1.082	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	1.088	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	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	1753.5	20385		15	0	2.683	Fig.16	2.683	Fig.17	2.696	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	8.944	Fig.30
	1732.5	20175		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	1750	20350		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36
	1717.5	20025	15	75	0	13.480	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	13.480	Fig.43	13.480	Fig.44	13.415	Fig.45
	1720	20050	20	100	0	17.887	Fig.46	17.887	Fig.47	17.974	Fig.48
1732.5	20175	100		0	17.887	Fig.49	17.887	Fig.50	17.887	Fig.51	
1745	20300	100		0	17.887	Fig.52	17.887	Fig.53	17.887	Fig.54	

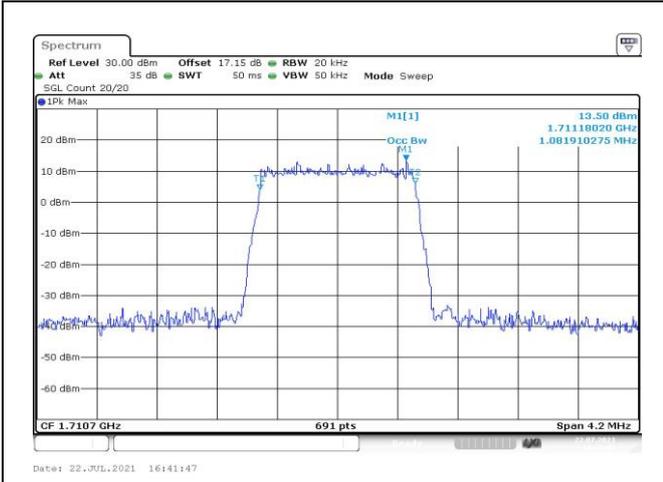


Fig.1

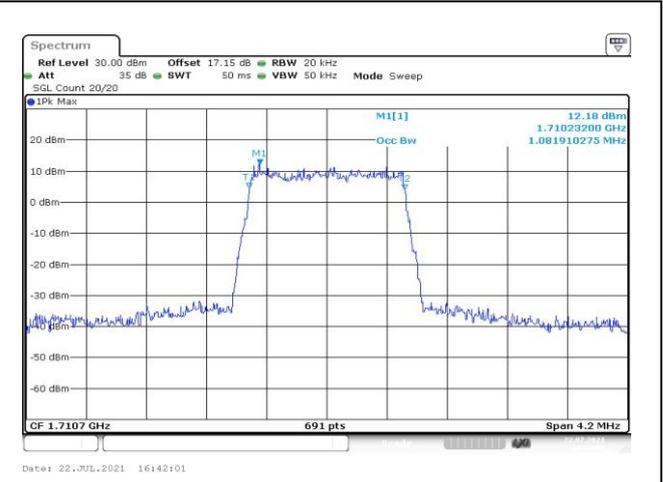


Fig.2

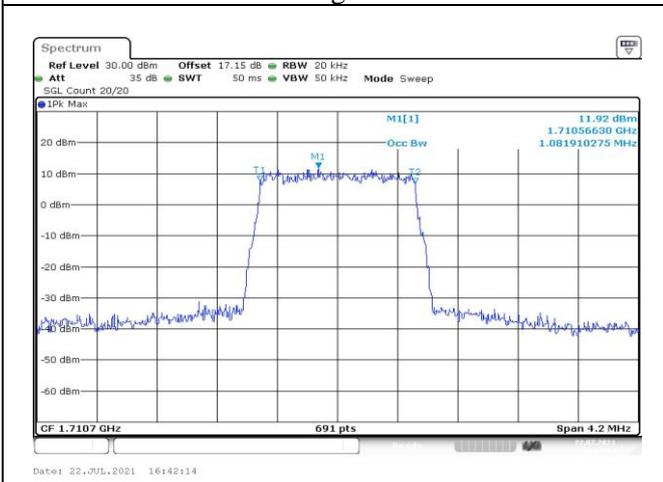


Fig.3

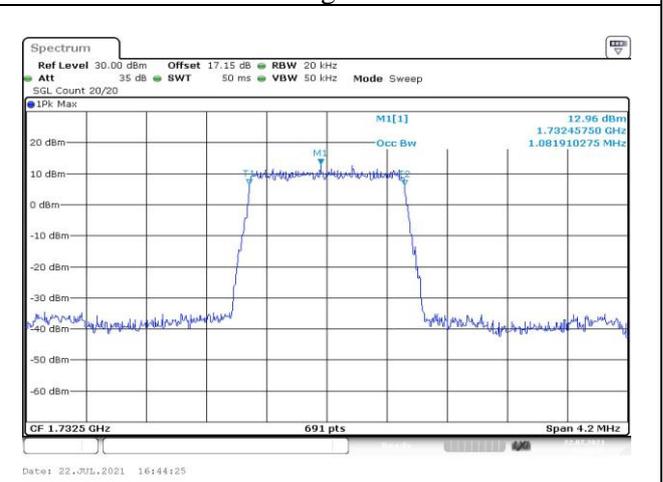


Fig.4

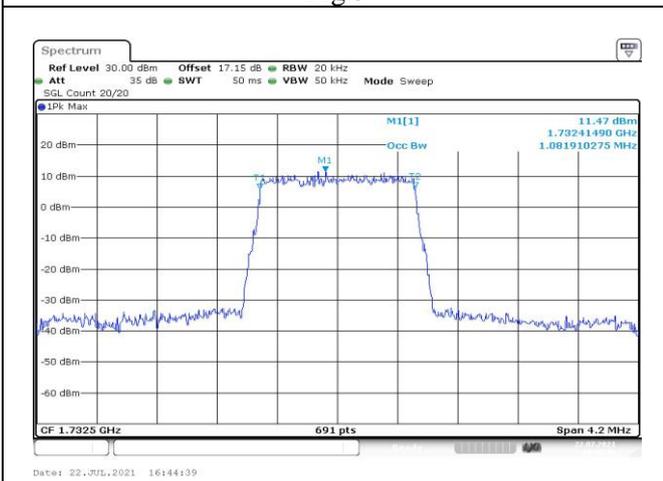


Fig.5

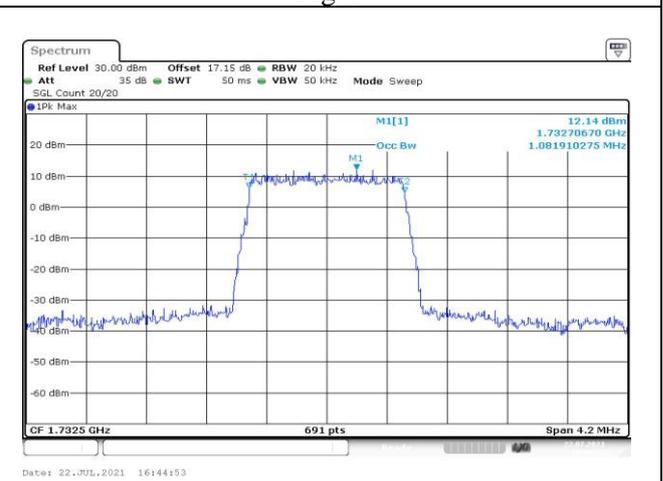


Fig.6

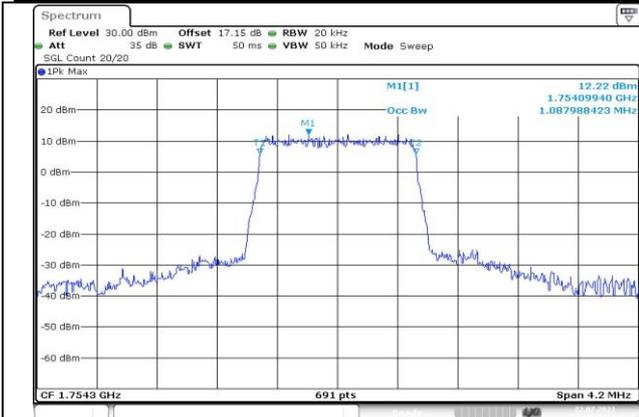


Fig.7

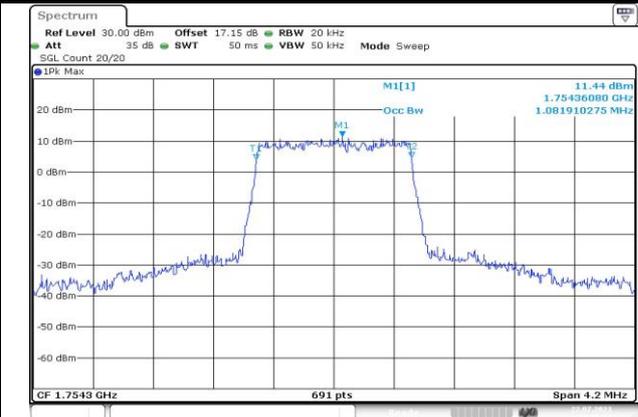


Fig.8

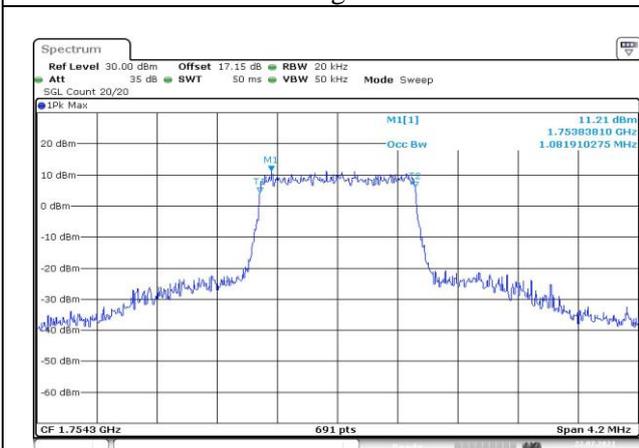


Fig.9

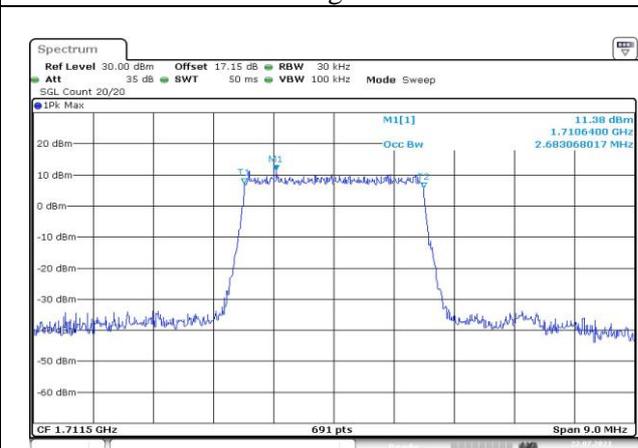


Fig.10

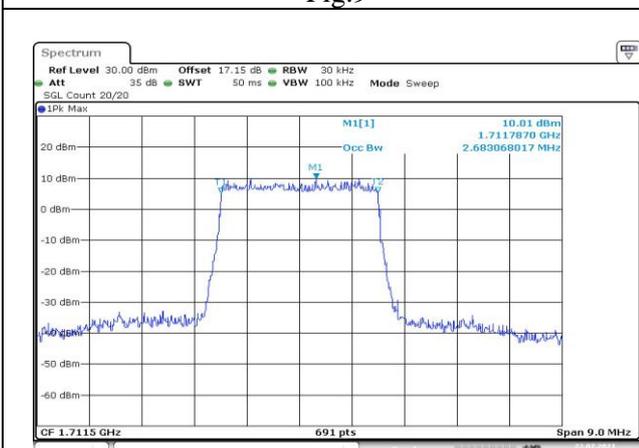


Fig.11

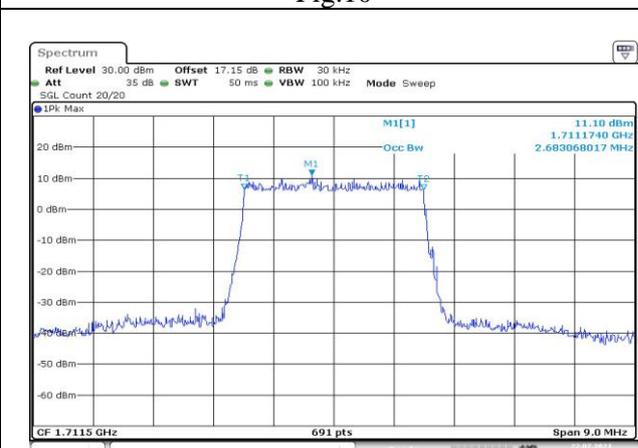


Fig.12

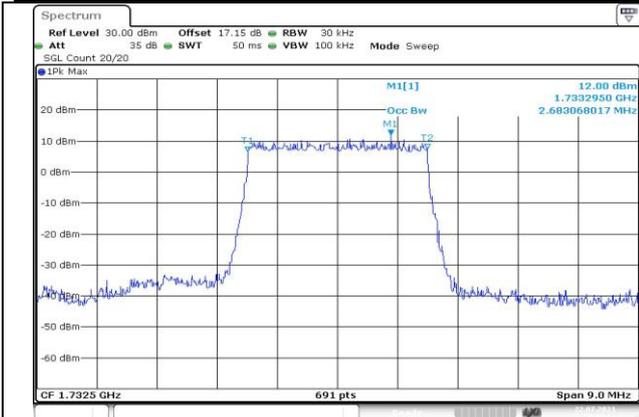


Fig.13

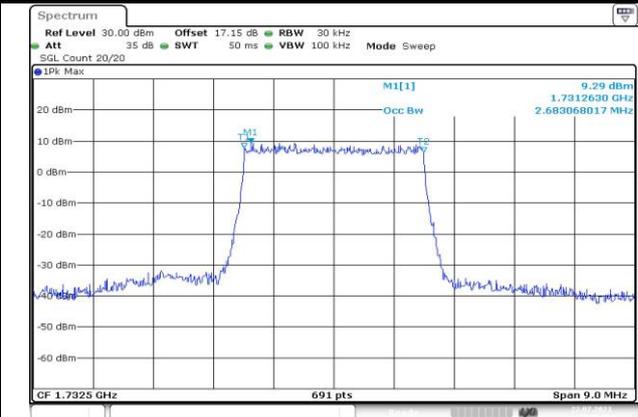


Fig.14

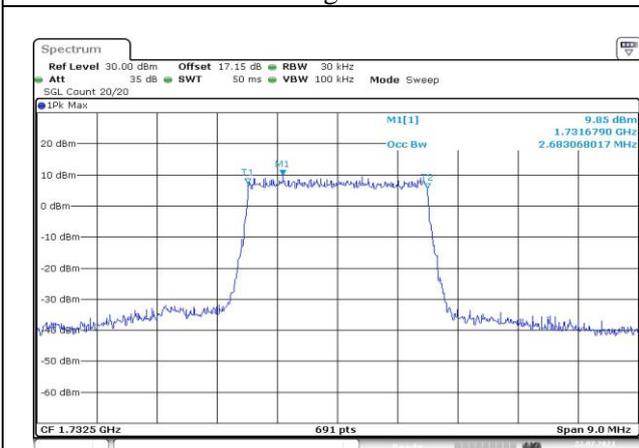


Fig.15

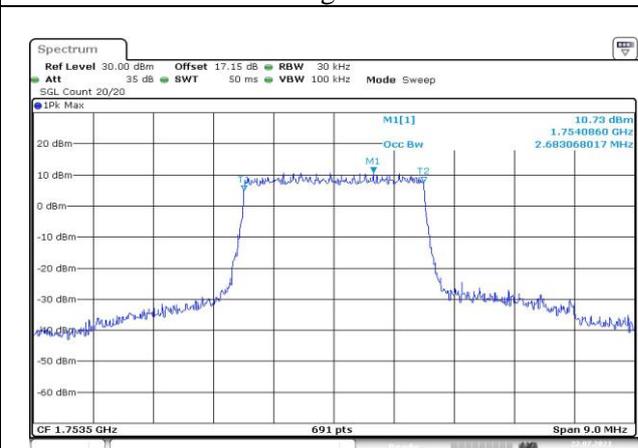


Fig.16

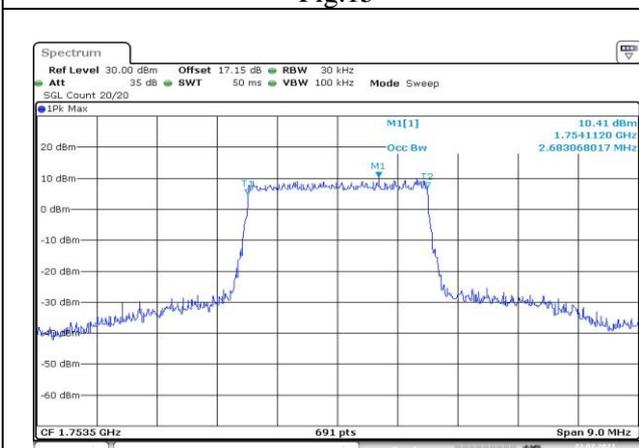


Fig.17

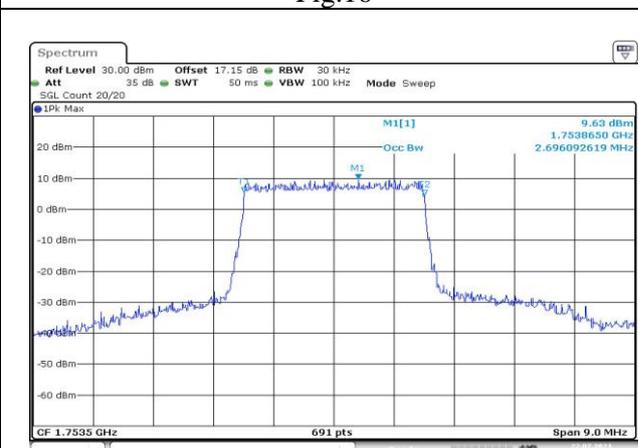


Fig.18

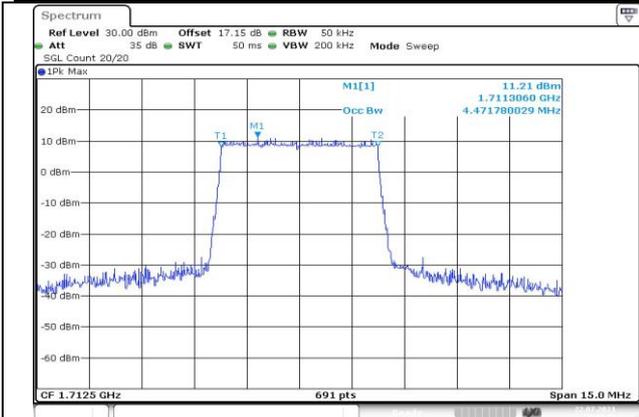


Fig.19

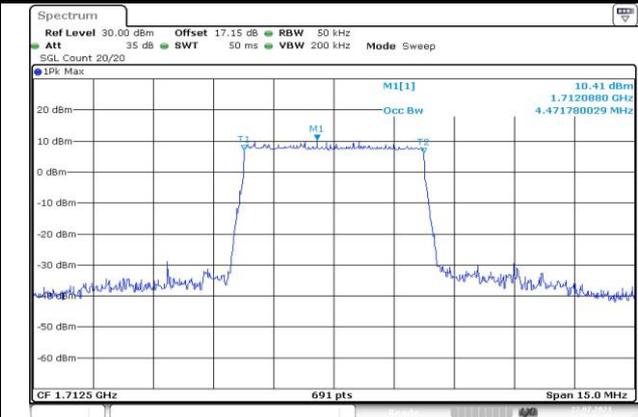


Fig.20

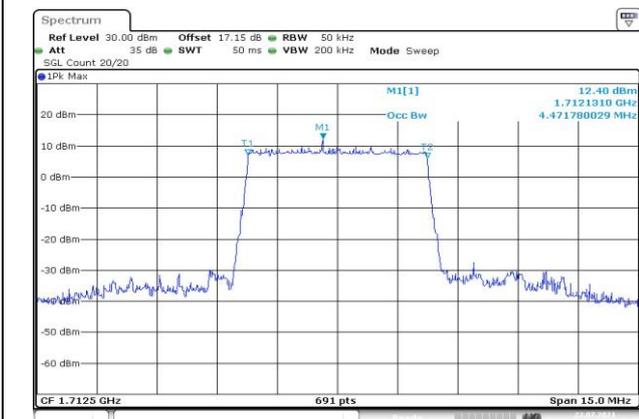


Fig.21

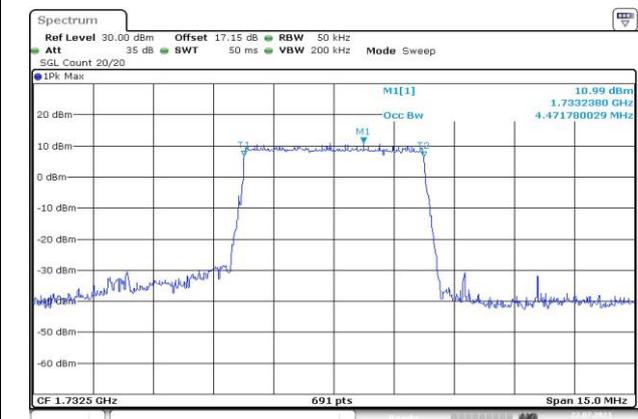


Fig.22

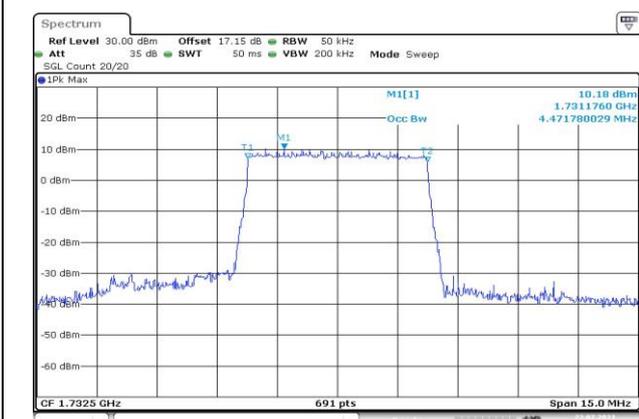


Fig.23

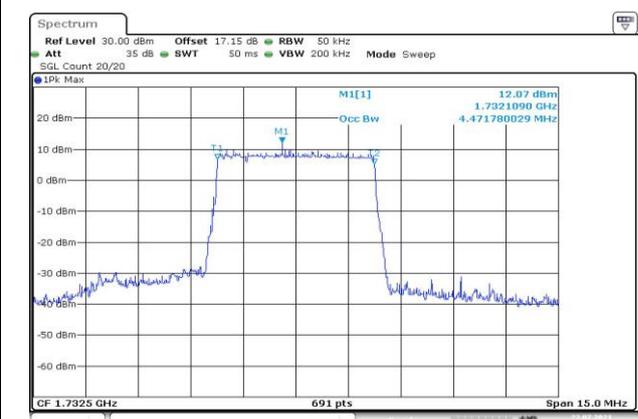


Fig.24

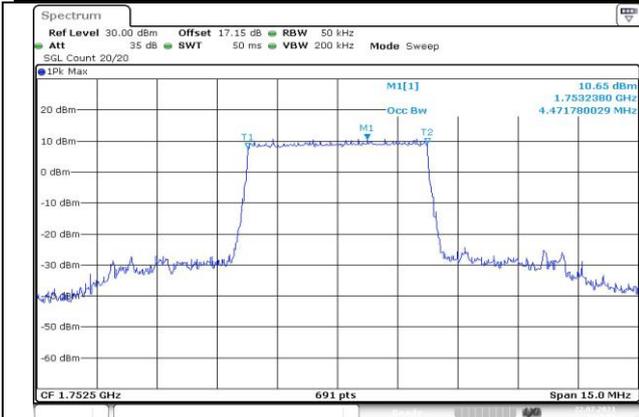


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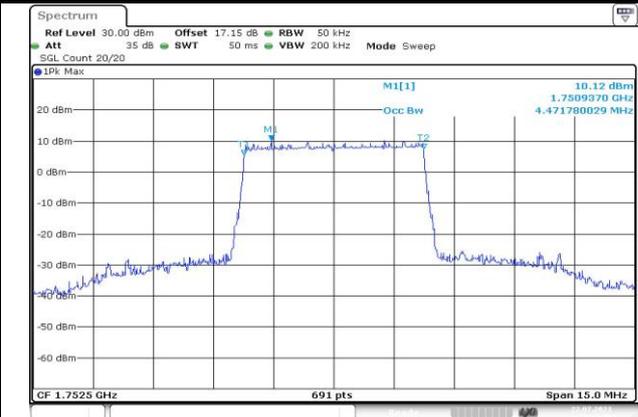


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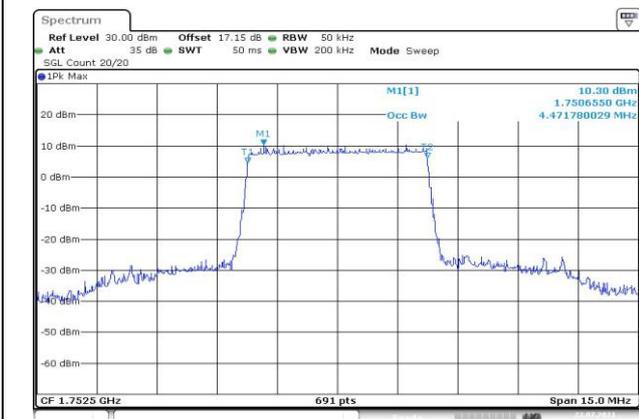


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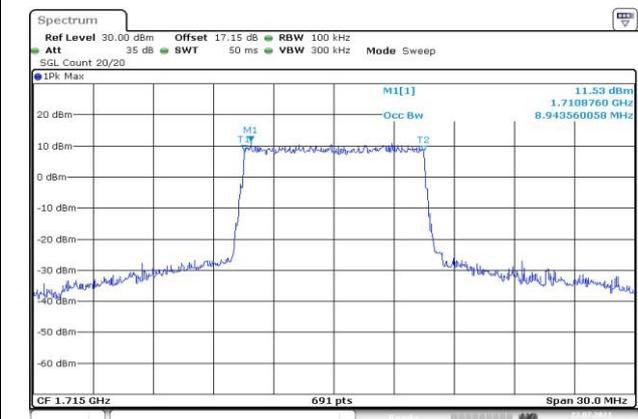


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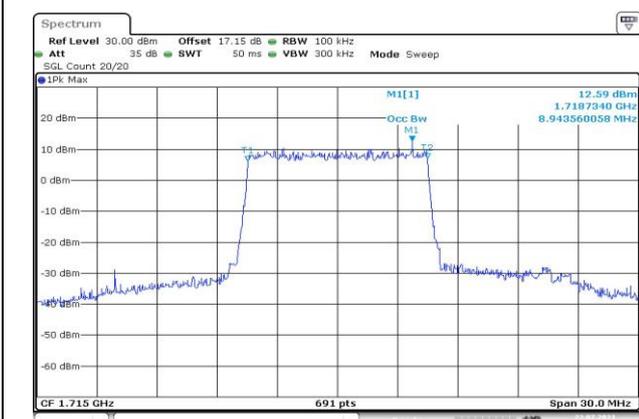


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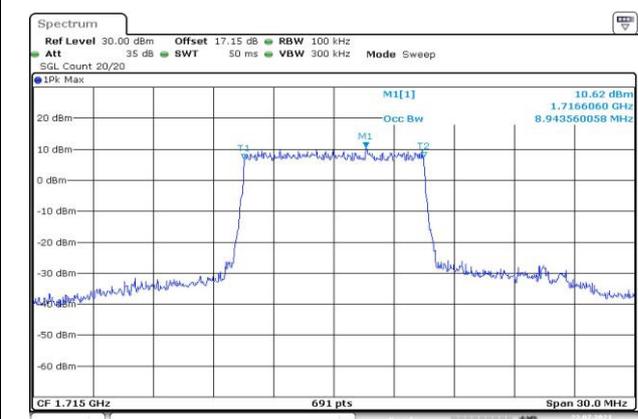


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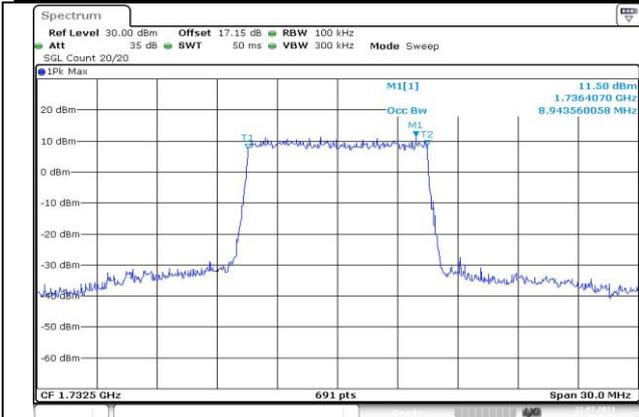


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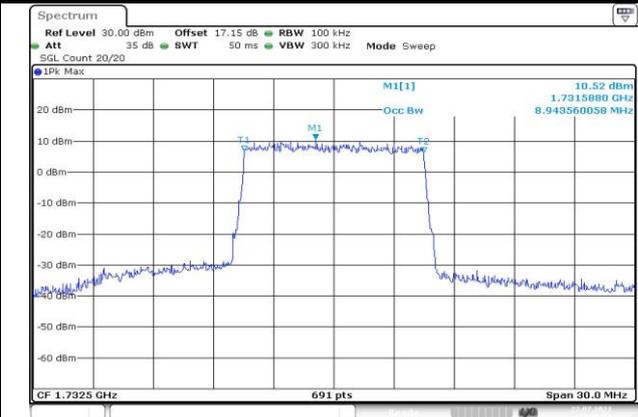


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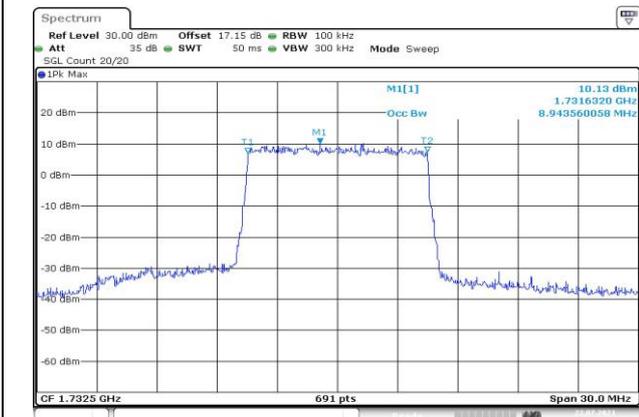


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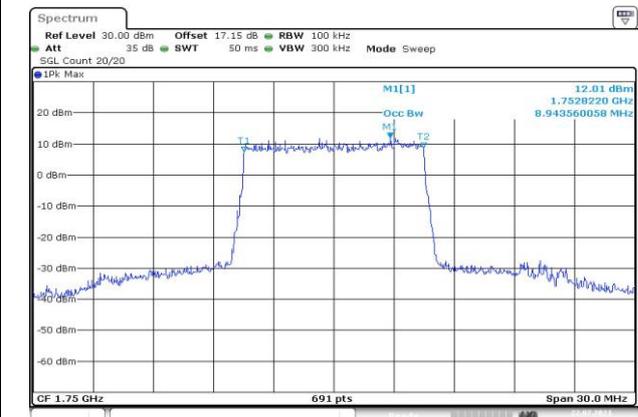


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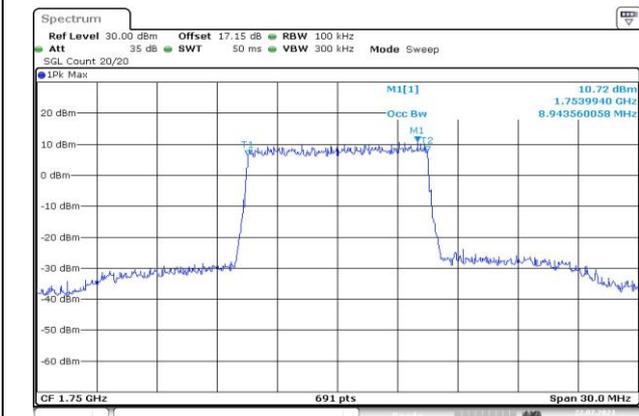


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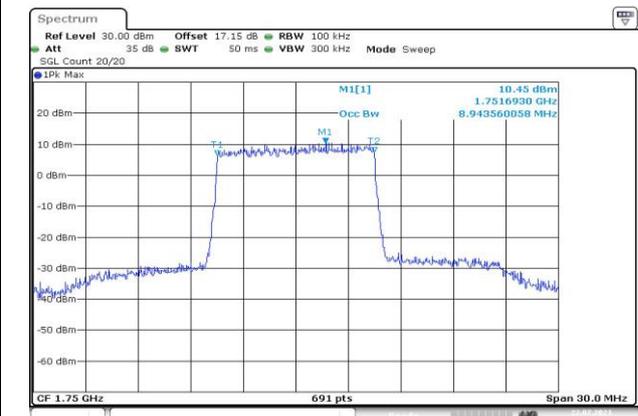


Fig.36



Fig.37

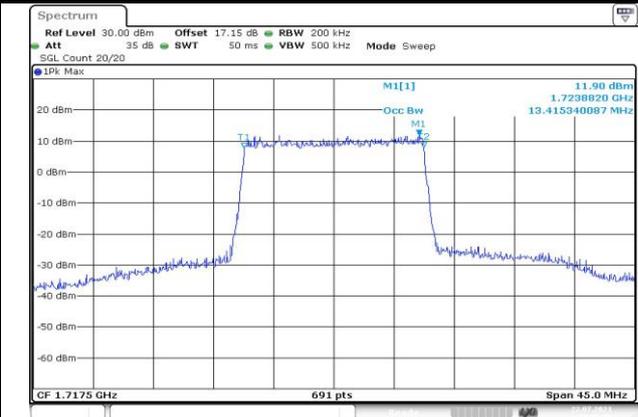


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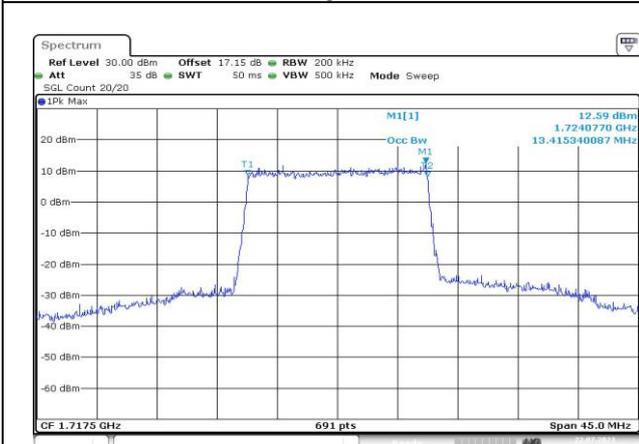


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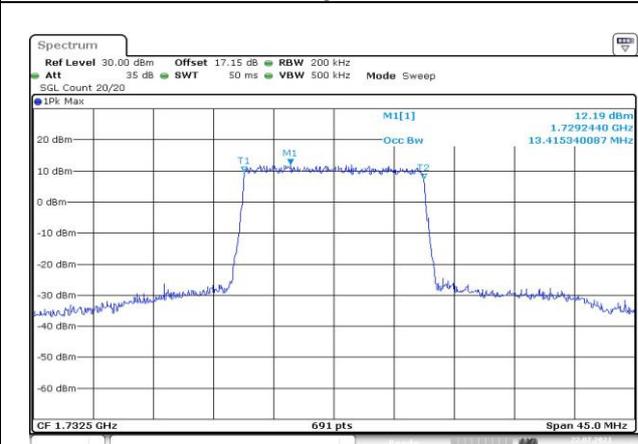


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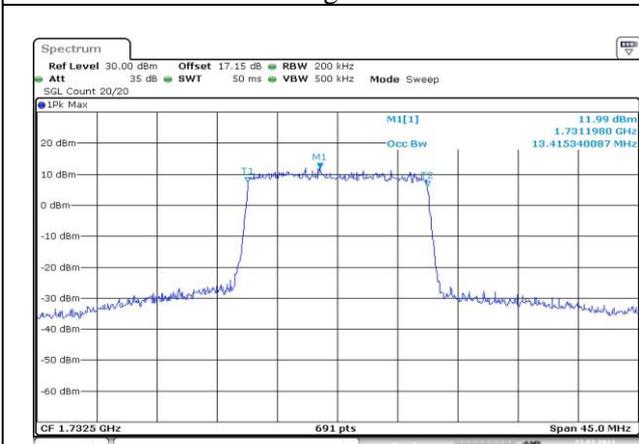


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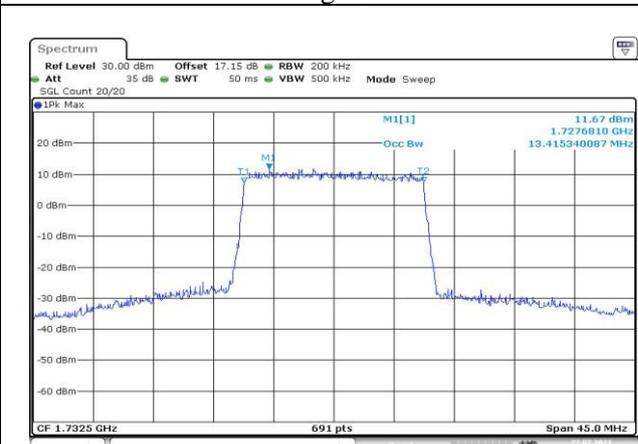


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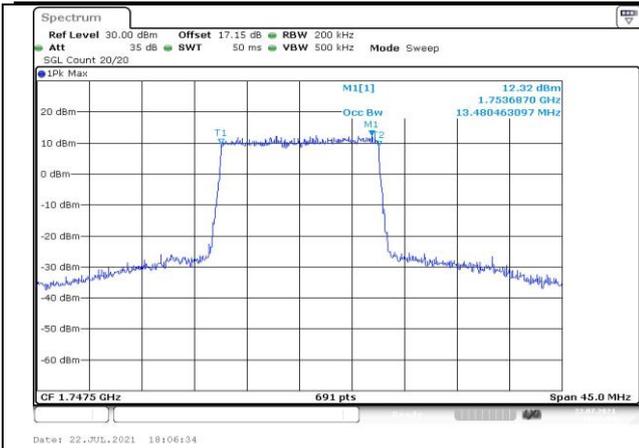


Fig.43



Fig.44

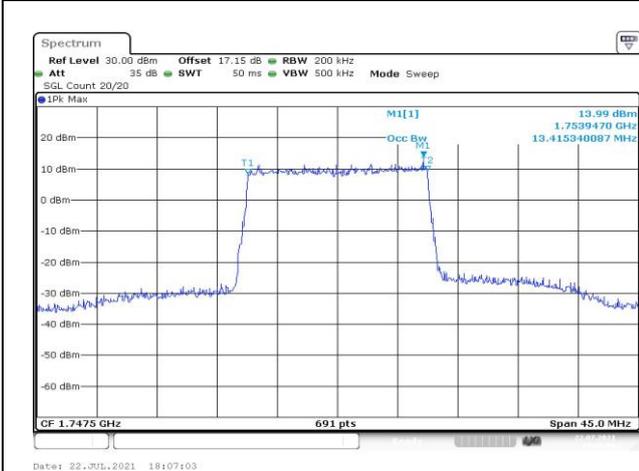


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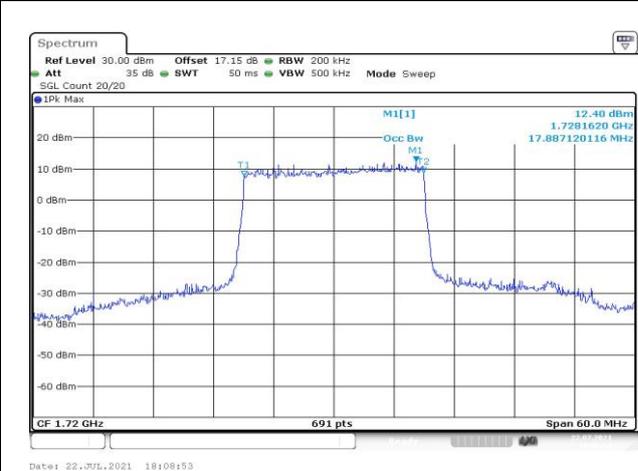


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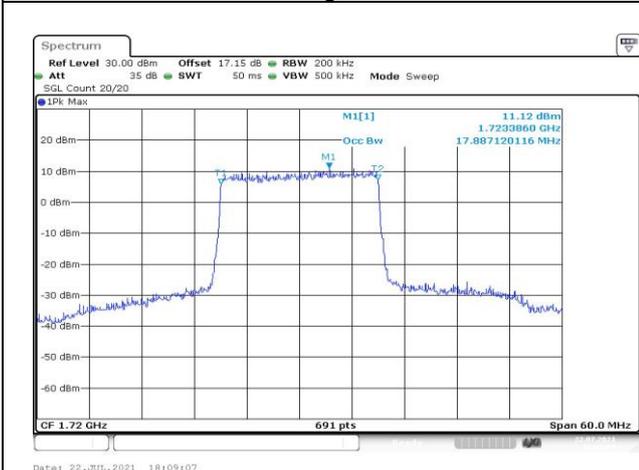


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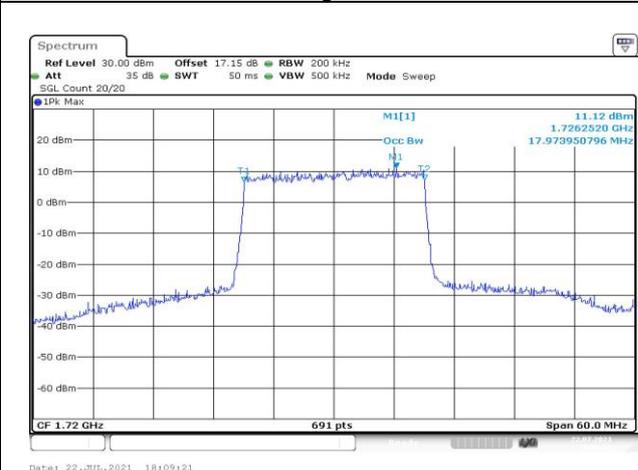


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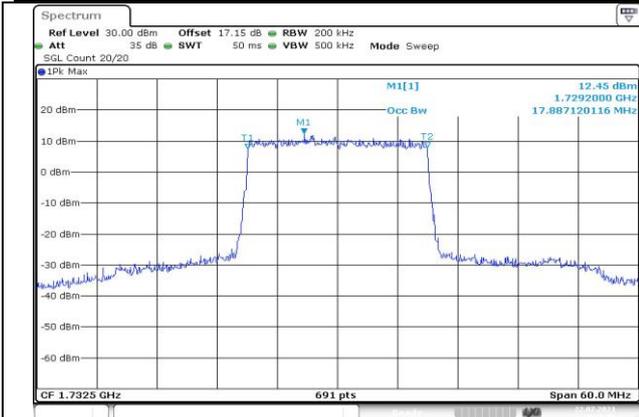


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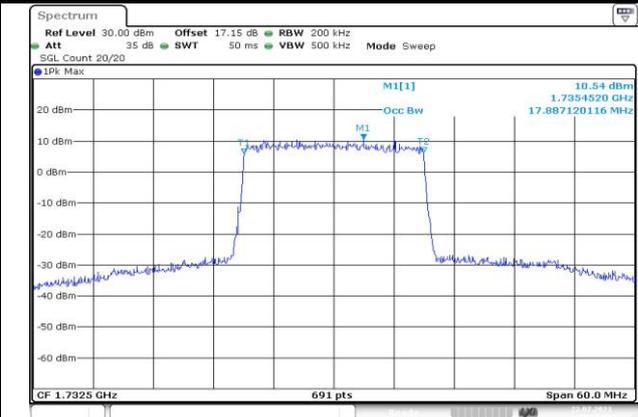


Fig.50

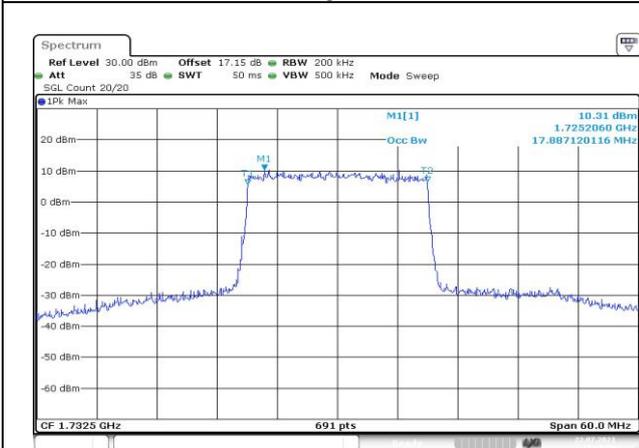


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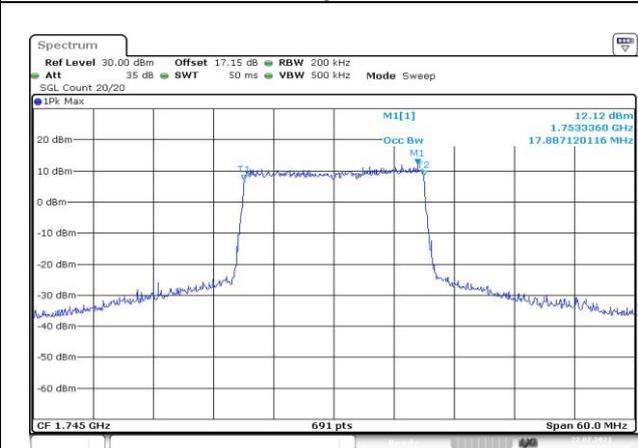


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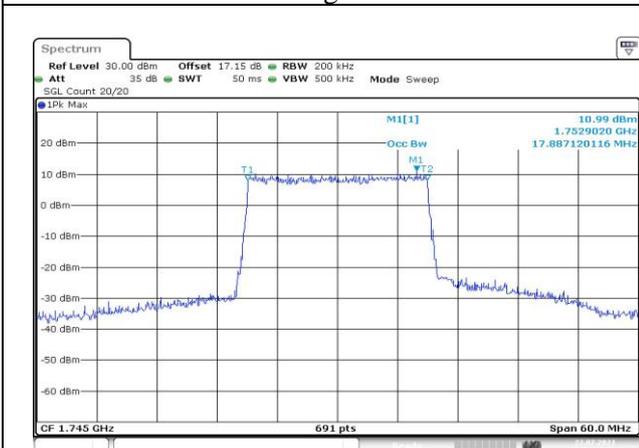


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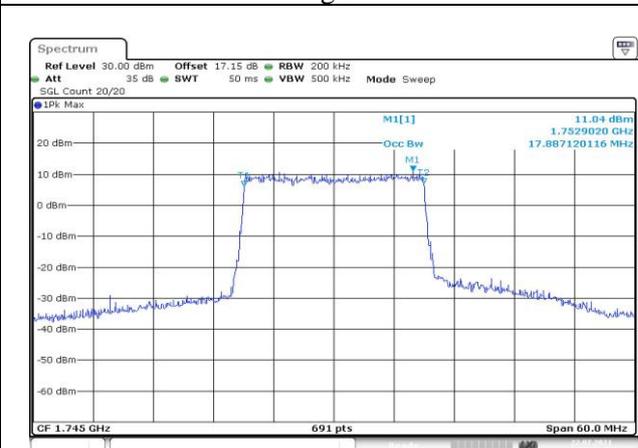


Fig.54

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	1.197	Fig.1	1.216	Fig.2	1.228	Fig.3
	1732.5	20175		6	0	1.204	Fig.4	1.222	Fig.5	1.210	Fig.6
	1754.3	20393		6	0	1.228	Fig.7	1.216	Fig.8	1.210	Fig.9
	1711.5	19965	3	15	0	2.904	Fig.10	2.904	Fig.11	2.904	Fig.12
	1732.5	20175		15	0	2.904	Fig.13	2.944	Fig.14	2.918	Fig.15
	1753.5	20385		15	0	2.931	Fig.16	2.918	Fig.17	2.904	Fig.18
	1712.5	19975	5	25	0	4.841	Fig.19	4.863	Fig.20	4.863	Fig.21
	1732.5	20175		25	0	4.884	Fig.22	4.841	Fig.23	4.841	Fig.24
	1752.5	20375		25	0	4.863	Fig.25	4.863	Fig.26	4.863	Fig.27
	1715	20000	10	50	0	9.595	Fig.28	9.551	Fig.29	9.638	Fig.30
	1732.5	20175		50	0	9.508	Fig.31	9.595	Fig.32	9.595	Fig.33
	1750	20350		50	0	9.595	Fig.34	9.595	Fig.35	9.682	Fig.36
	1717.5	20025	15	75	0	14.522	Fig.37	14.457	Fig.38	14.522	Fig.39
	1732.5	20175		75	0	14.457	Fig.40	14.457	Fig.41	14.392	Fig.42
	1747.5	20325		75	0	14.588	Fig.43	14.392	Fig.44	14.653	Fig.45
	1720	20050	20	100	0	19.016	Fig.46	19.016	Fig.47	19.190	Fig.48
1732.5	20175	100		0	19.016	Fig.49	19.276	Fig.50	19.016	Fig.51	
1745	20300	100		0	19.276	Fig.52	19.363	Fig.53	19.190	Fig.54	

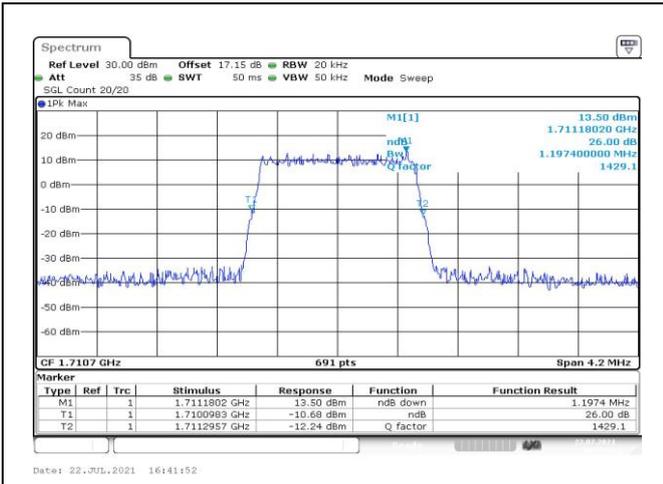


Fig.1

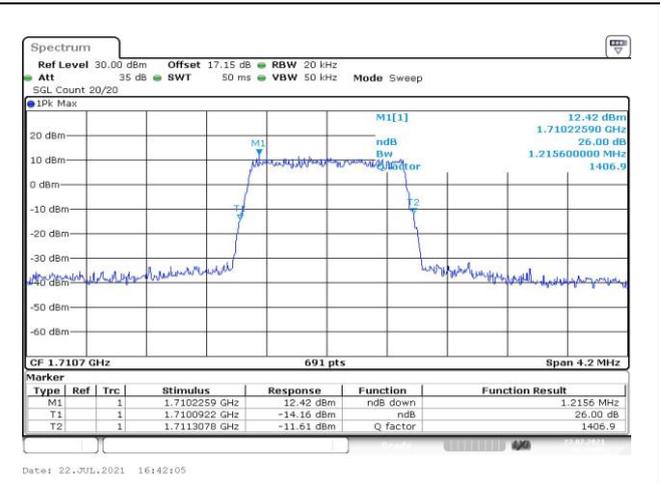


Fig.2

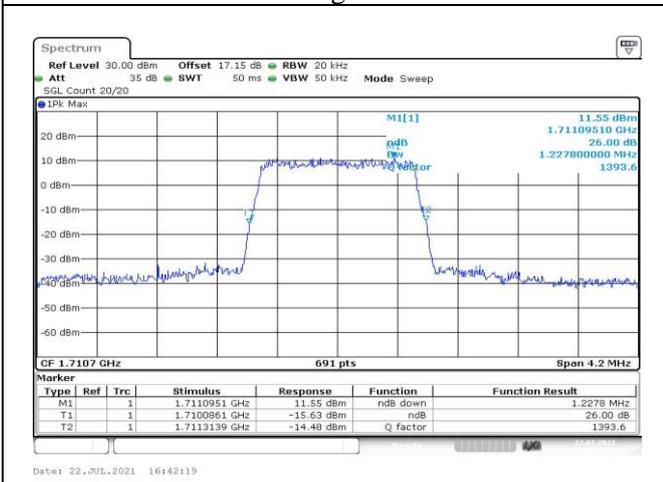


Fig.3

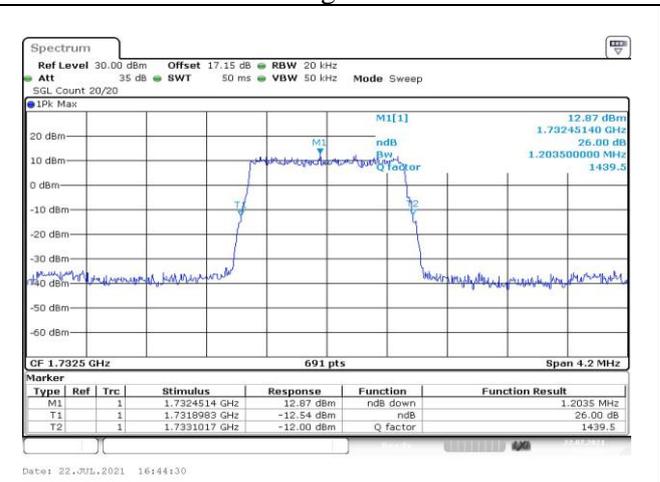


Fig.4

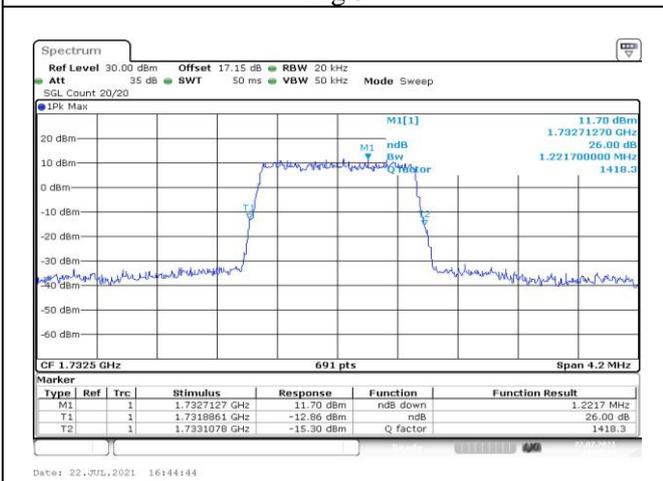


Fig.5

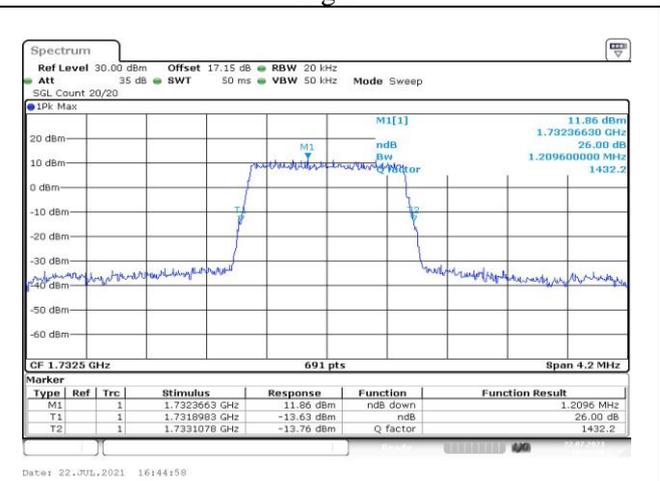


Fig.6

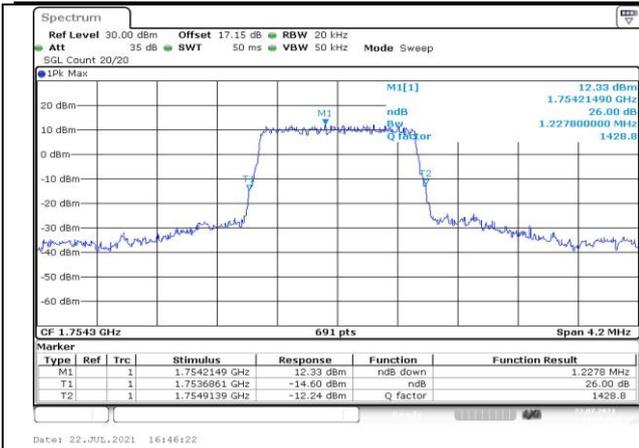


Fig.7

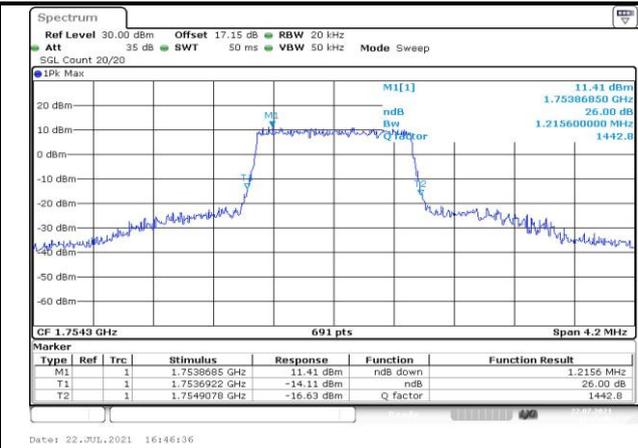


Fig.8

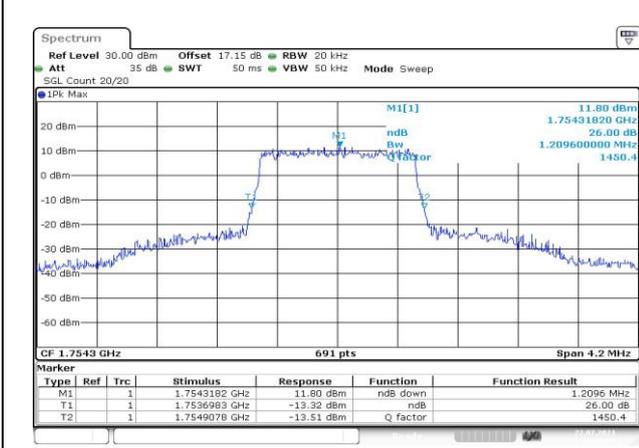


Fig.9

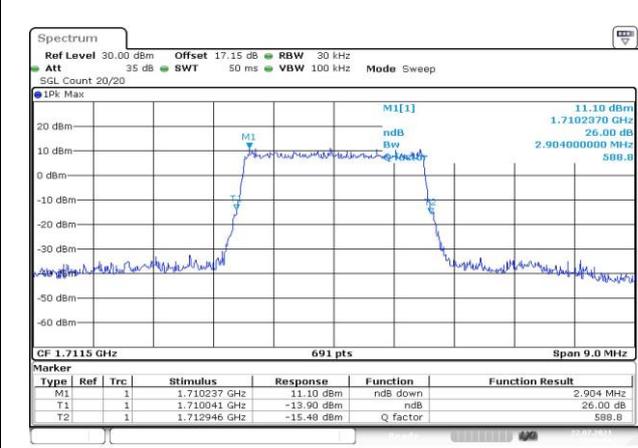


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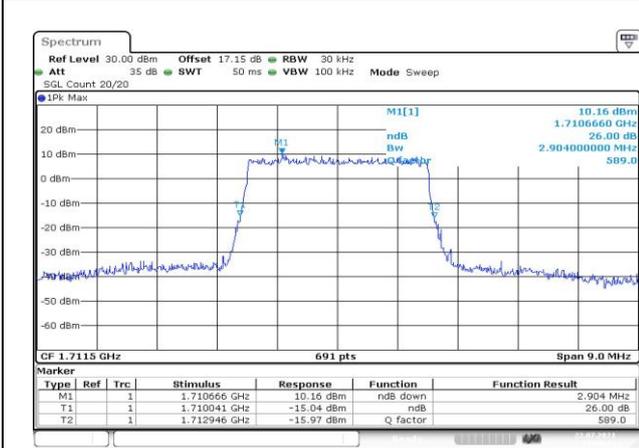


Fig.11

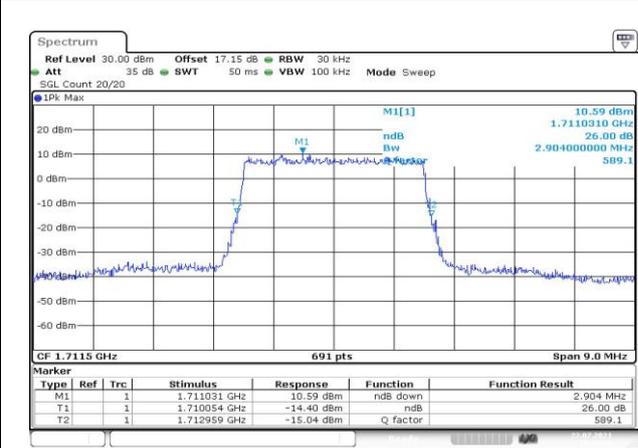


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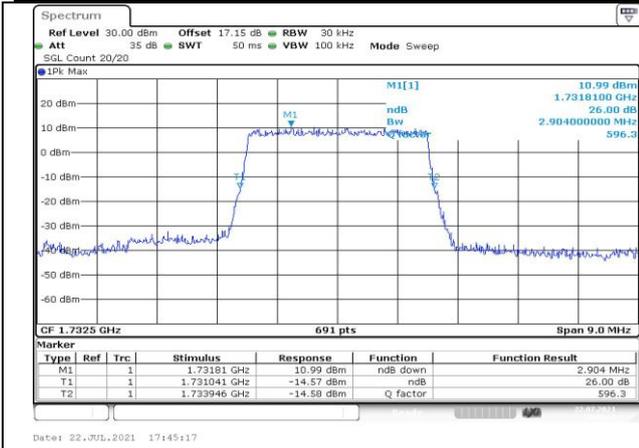


Fig.13

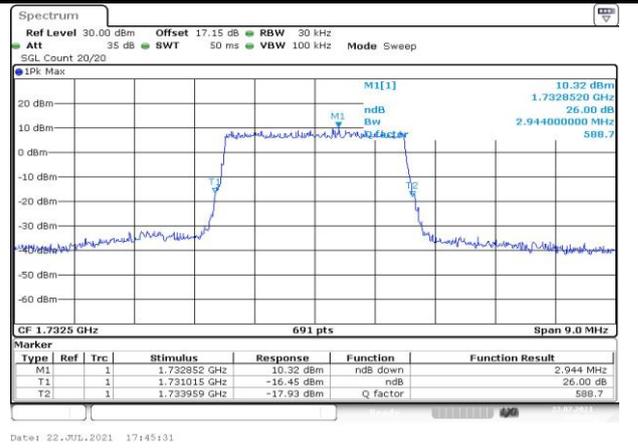


Fig.14

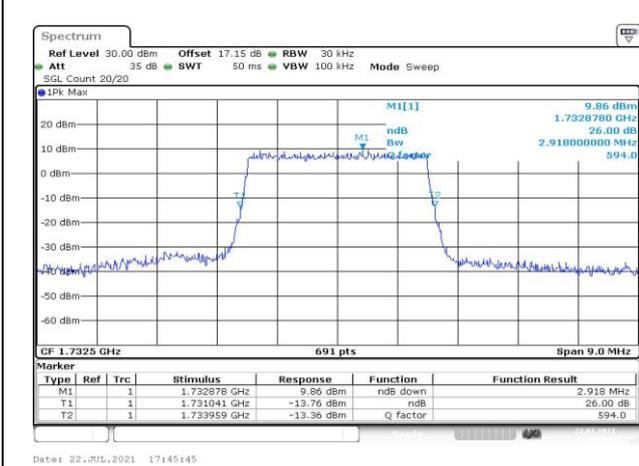


Fig.15

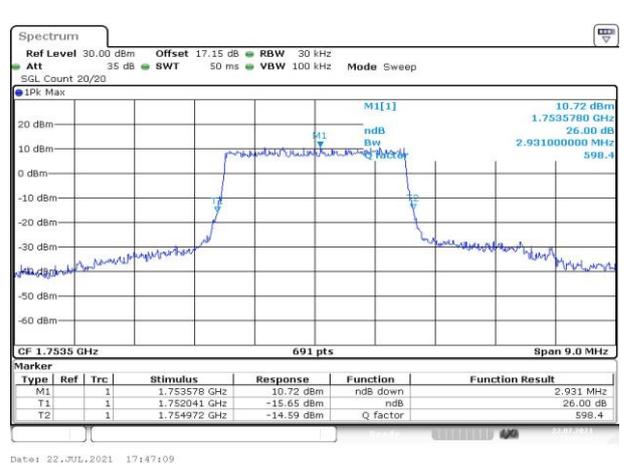


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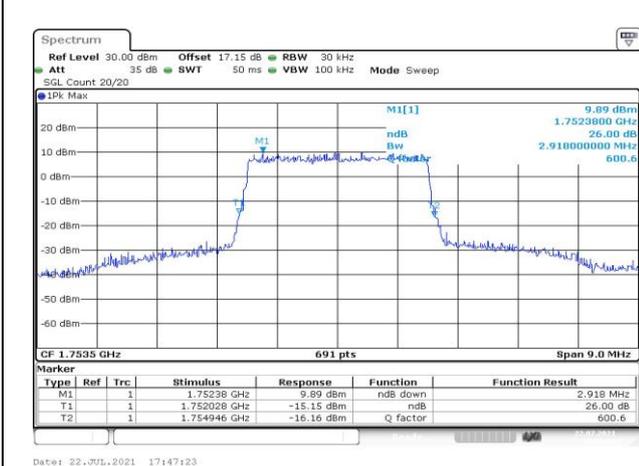


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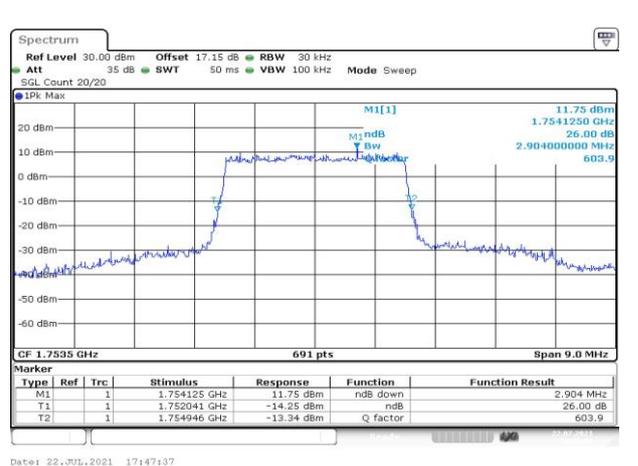


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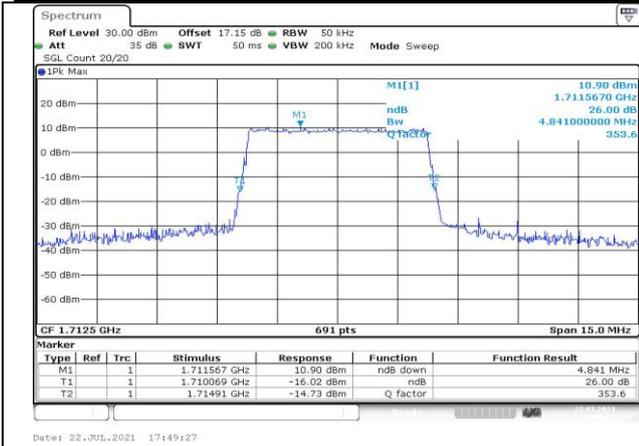


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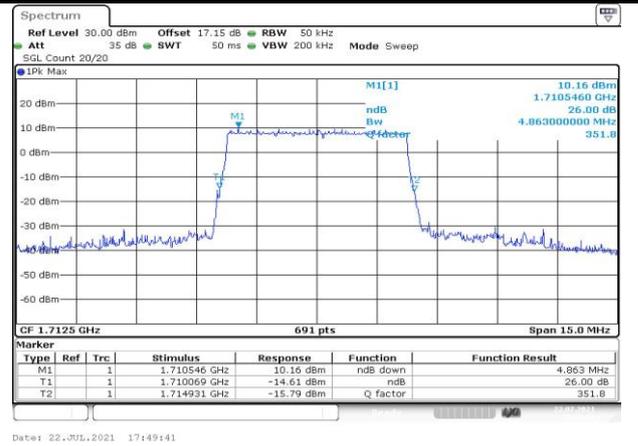


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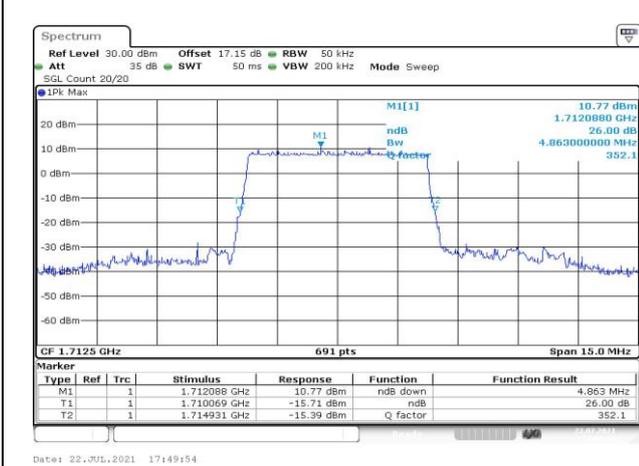


Fig.21

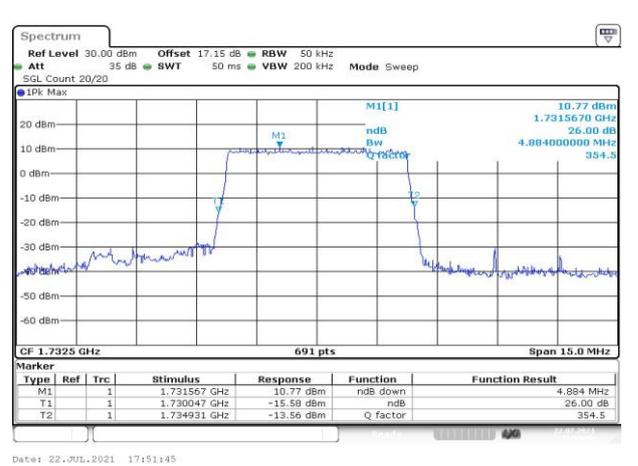


Fig.22

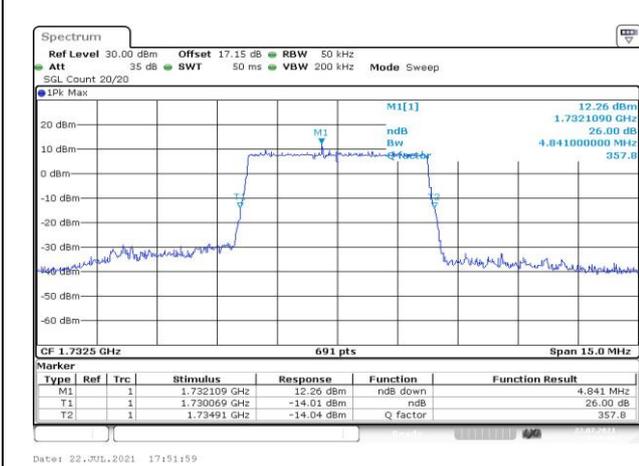


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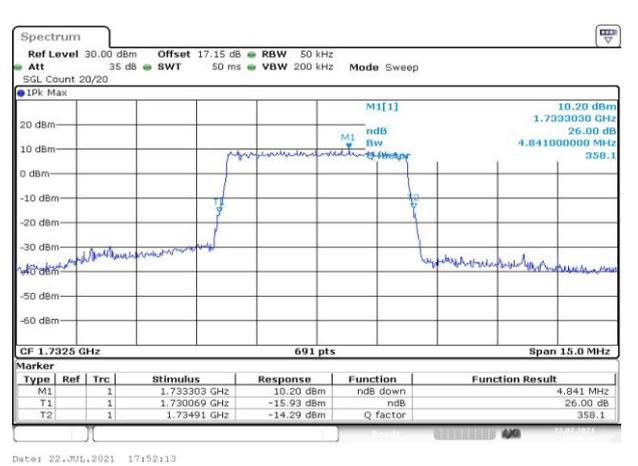


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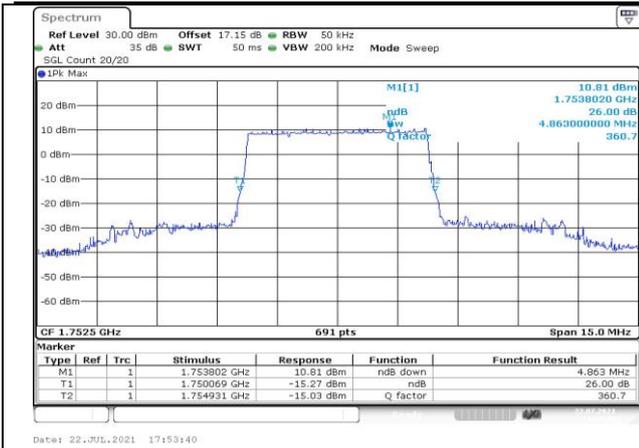


Fig.25

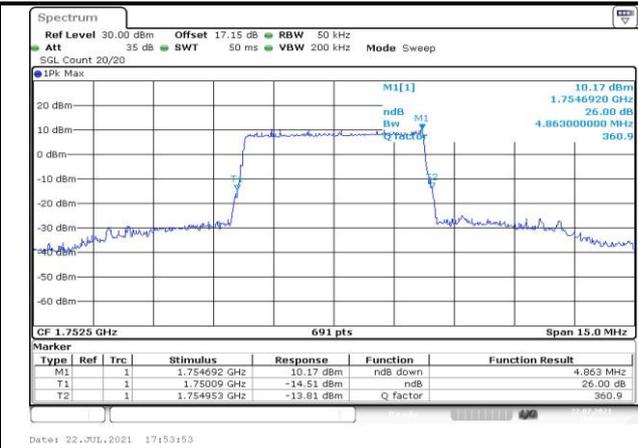


Fig.26

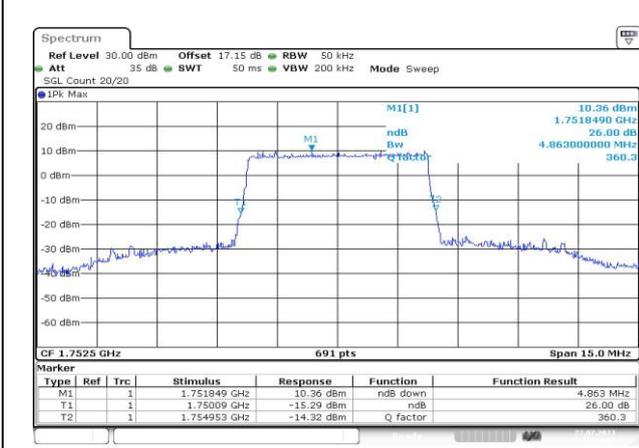


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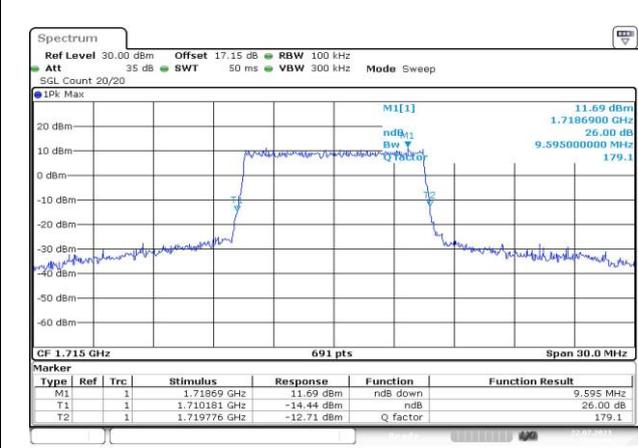


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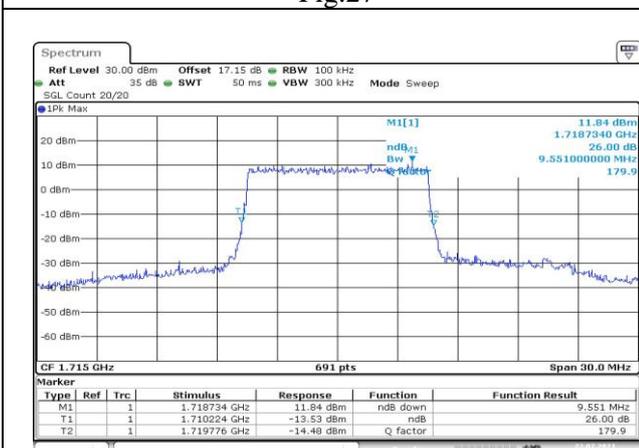


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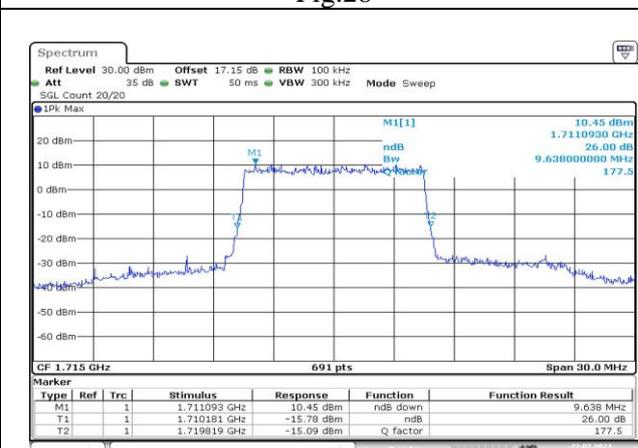


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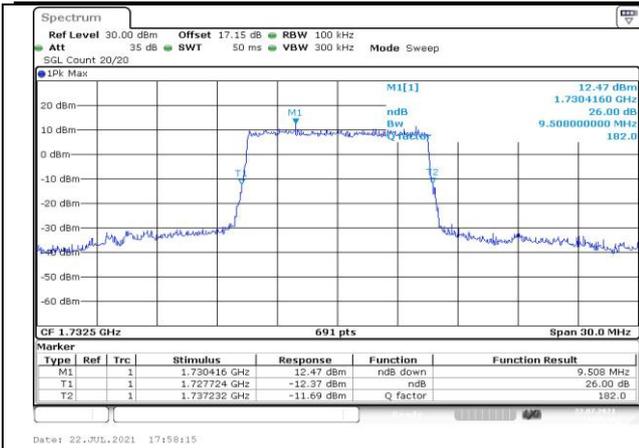


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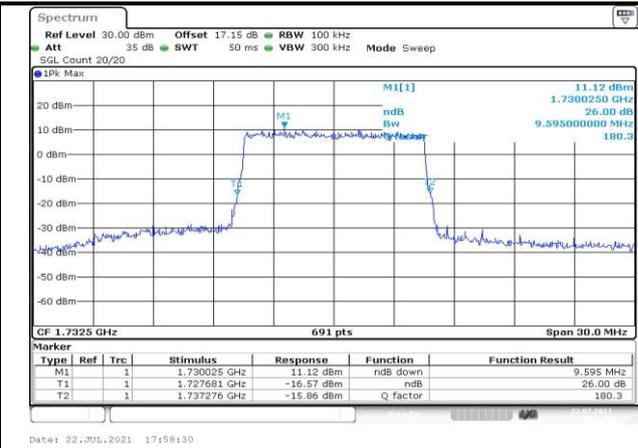


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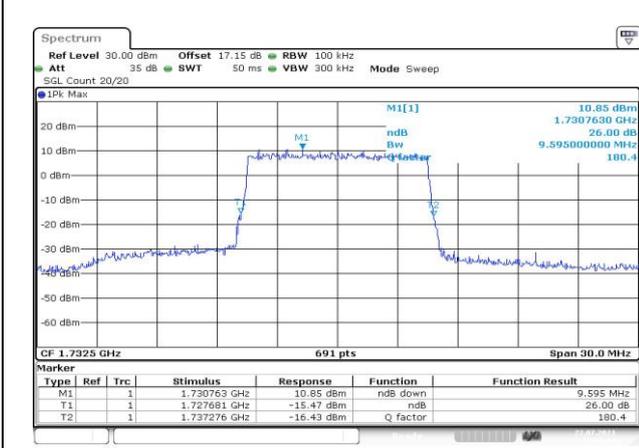


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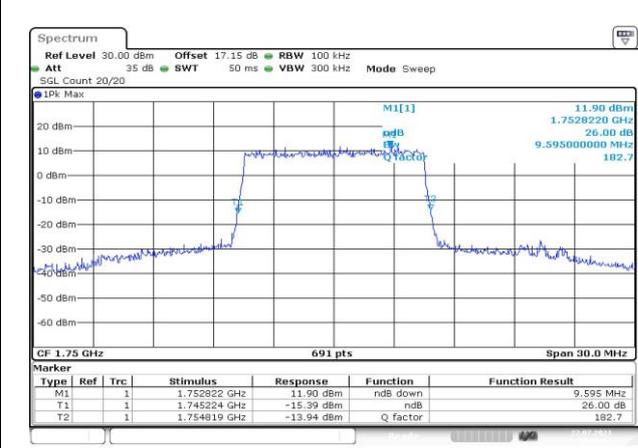


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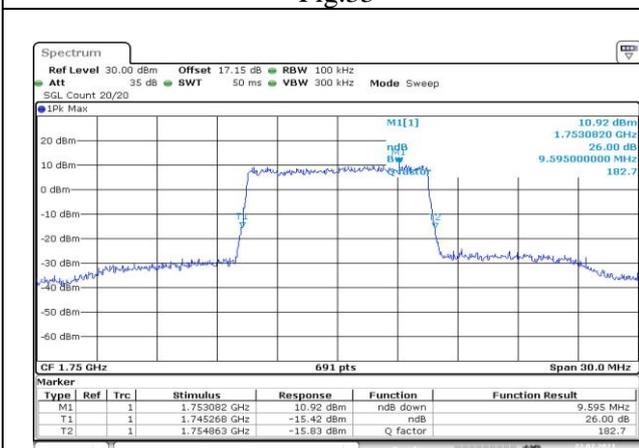


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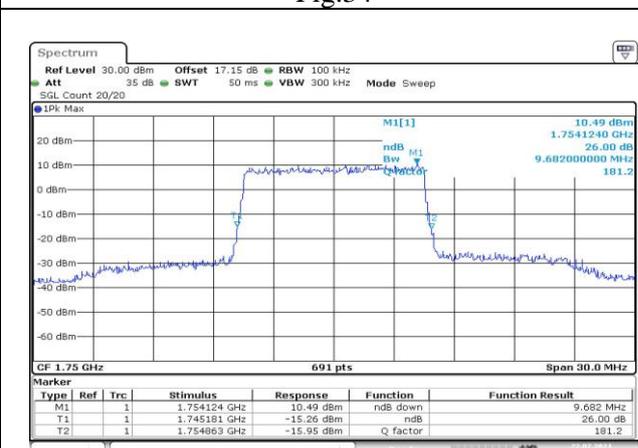


Fig.36



Fig.37

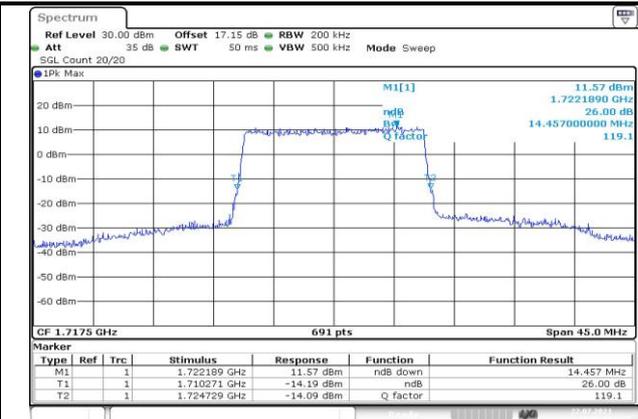


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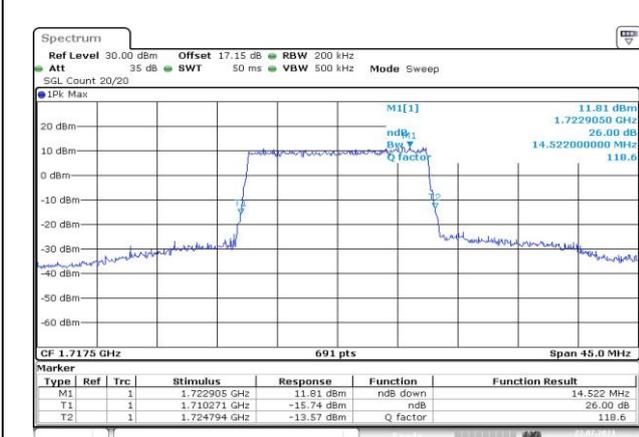


Fig.39

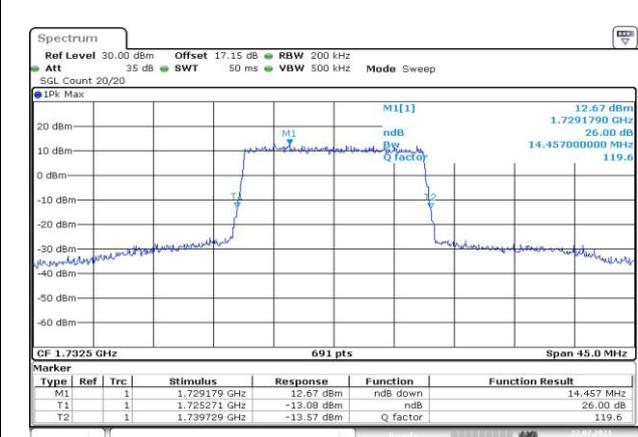


Fig.40

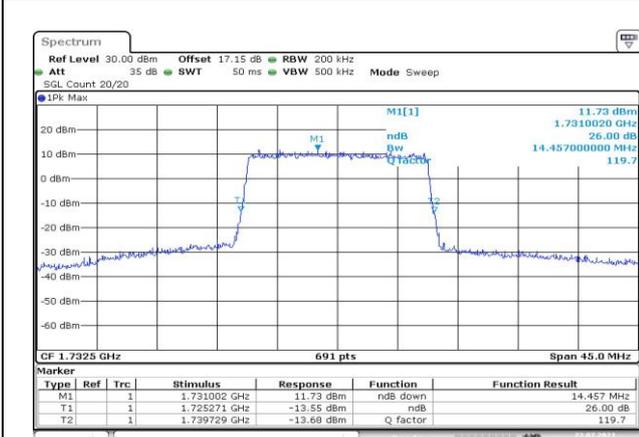


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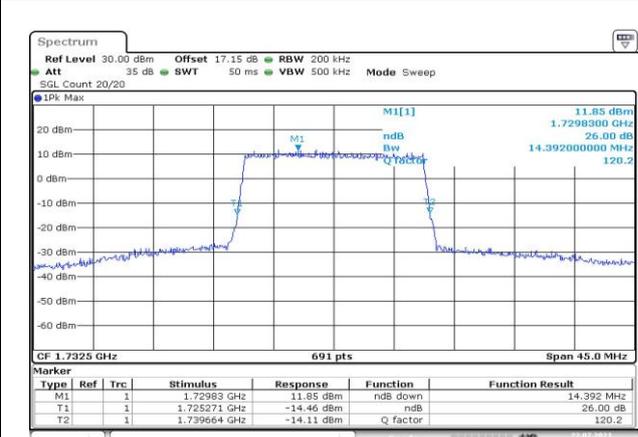


Fig.42