

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	23.53
				1	3	23.50
				1	5	23.48
				3	0	23.29
				3	1	23.17
				3	3	23.27
	6	0		22.24		
	1732.5	20175		1	0	23.06
				1	3	23.19
				1	5	23.19
				3	0	23.12
				3	1	23.32
				3	3	23.32
	1754.3	20393		6	0	22.41
				1	0	23.30
				1	3	23.33
				1	5	23.33
				3	0	23.43
3			1	23.30		
16QAM	1710.7	19957	3	3	23.29	
			6	0	22.50	
			1	0	22.70	
			1	3	22.44	
			1	5	22.44	
			3	0	21.99	
	1732.5	20175	3	1	22.06	
			3	3	22.35	
			6	0	21.28	
			1	0	22.35	
			1	3	22.42	
			1	5	22.42	
	1754.3	20393	3	0	22.23	
			3	1	22.35	
			3	3	22.35	
			6	0	21.66	
			1	0	22.72	
			1	3	22.57	
1	5	22.57				
3	0	22.61				
3	1	22.59				
3	3	22.59				
6	0	21.24				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.28
				1	3	21.28
				1	5	21.28
				3	0	21.28
				3	1	21.28
				3	3	21.28
	6	0		21.28		
	1732.5	20175		1	0	21.56
				1	3	21.56
				1	5	21.57
				3	0	21.56
				3	1	21.56
				3	3	21.56
	6	0		21.56		
	1754.3	20393		1	0	21.24
				1	3	21.25
				1	5	21.25
				3	0	21.24
				3	1	21.25
				3	3	21.25
				6	0	21.24

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.20
				1	8	23.09
				1	14	23.08
				8	0	22.29
				8	4	22.35
				8	7	22.35
	15	0		22.22		
	1	0		23.44		
	1	8		23.55		
	1	14		23.55		
	8	0		22.51		
	8	4		22.49		
	8	7		22.50		
	15	0		22.47		
	1	0		23.59		
	1	8		23.58		
	1	14		23.45		
	8	0		22.40		
8	4	22.63				
8	7	22.62				
15	0	22.51				
16QAM	1711.5	19965	1	0	22.31	
			1	8	22.43	
			1	14	22.22	
			8	0	21.18	
			8	4	21.13	
			8	7	21.14	
	15	0	21.19			
	1	0	22.67			
	1	8	22.65			
	1	14	22.65			
	8	0	21.24			
	8	4	21.21			
	8	7	21.21			
	15	0	21.22			
	1	0	22.41			
	1	8	22.39			
	1	14	22.39			
	8	0	21.37			
8	4	21.43				
8	7	21.43				
15	0	21.56				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	21.19
				1	8	21.18
				1	14	21.19
				8	0	21.19
				8	4	21.18
				8	7	21.18
				15	0	21.18
	1732.5	20175		1	0	21.23
				1	8	21.23
				1	14	21.23
				8	0	21.23
				8	4	21.23
				8	7	21.23
				15	0	21.23
	1753.5	20385		1	0	21.56
				1	8	21.56
				1	14	21.56
				8	0	21.56
				8	4	21.56
				8	7	21.56
				15	0	21.56
				15	0	21.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.07
				1	12	23.21
				1	24	23.20
				12	0	22.38
				12	7	22.32
				12	13	22.32
	1732.5	20175		25	0	22.25
				1	0	23.02
				1	12	22.99
				1	24	22.99
				12	0	22.30
				12	7	22.40
	1752.5	20375		12	13	22.40
				25	0	22.34
				1	0	23.37
				1	12	23.71
				1	24	23.70
				12	0	22.55
16QAM	1712.5	19975	12	7	22.59	
			12	13	22.59	
			25	0	22.61	
			1	0	21.55	
			1	12	21.54	
			1	24	21.54	
	1732.5	20175	12	0	21.28	
			12	7	21.31	
			12	13	21.31	
			25	0	21.43	
			1	0	22.52	
			1	12	22.57	
	1752.5	20375	1	24	22.56	
			12	0	21.26	
			12	7	21.27	
			12	13	21.27	
			25	0	21.27	
			1	0	22.41	
			1	12	22.45	
			1	24	22.44	
			12	0	21.30	
			12	7	21.35	
			12	13	21.35	
			25	0	21.56	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.32
				1	12	21.32
				1	24	21.32
				12	0	21.32
				12	7	21.32
				12	13	21.32
				25	0	21.32
	1732.5	20175		1	0	21.27
				1	12	21.27
				1	24	21.27
				12	0	21.27
				12	7	21.27
				12	13	21.27
				25	0	21.27
	1752.5	20375		1	0	21.56
				1	12	21.42
				1	24	21.42
				12	0	21.42
				12	7	21.56
				12	13	21.56
				25	0	21.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.35
				1	25	23.21
				1	49	23.24
				25	0	22.38
				25	12	22.29
				25	25	22.29
	1732.5	20175		50	0	22.40
				1	0	23.07
				1	25	23.39
				1	49	23.39
				25	0	22.36
				25	12	22.38
	1750	20350		25	25	22.38
				50	0	22.33
				1	0	23.24
				1	25	23.52
				1	49	23.51
				25	0	22.62
16QAM	1715	20000	25	12	22.63	
			25	25	22.63	
			50	0	22.46	
			1	0	22.24	
			1	25	22.73	
			1	49	22.73	
	1732.5	20175	25	0	21.43	
			25	12	21.32	
			25	25	21.42	
			50	0	21.26	
			1	0	23.06	
			1	25	23.55	
	1750	20350	1	49	23.55	
			25	0	21.46	
			25	12	21.47	
			25	25	21.47	
			50	0	21.36	
			1	0	22.74	
1715	20000	1	25	22.74		
		1	49	22.73		
		25	0	21.81		
		25	12	21.51		
		25	25	21.51		
		50	0	21.40		

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.26
				1	25	21.27
				1	49	21.39
				25	0	21.39
				25	12	21.38
				25	25	21.27
				50	0	21.27
	1732.5	20175		1	0	21.36
				1	25	21.36
				1	49	21.36
				25	0	21.36
				25	12	21.37
				25	25	21.36
				50	0	21.37
	1750	20350		1	0	21.40
				1	25	21.40
				1	49	21.40
				25	0	21.40
				25	12	21.40
				25	25	21.40
				50	0	21.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.45
				1	37	22.98
				1	74	23.08
				36	0	22.25
				36	29	22.17
				36	30	22.17
	1732.5	20175		75	0	22.23
				1	0	23.12
				1	37	23.56
				1	74	23.56
				36	0	22.30
				36	29	22.28
	1747.5	20325		36	30	22.28
				75	0	22.29
				1	0	23.32
				1	37	23.66
				1	74	23.65
				36	0	22.43
16QAM	1717.5	20025	36	29	22.44	
			36	30	22.44	
			75	0	22.54	
			1	0	22.87	
			1	37	22.77	
			1	74	22.77	
	1732.5	20175	36	0	21.39	
			36	29	21.20	
			36	30	21.22	
			75	0	21.24	
			1	0	22.73	
			1	37	23.19	
	1747.5	20325	1	74	23.19	
			36	0	21.08	
			36	29	21.59	
			36	30	21.59	
			75	0	21.26	
			1	0	23.00	
			1	37	22.55	
			1	74	22.55	
			36	0	21.64	
			36	29	21.57	
			36	30	21.57	
			75	0	21.52	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.24
				1	37	21.24
				1	74	21.24
				36	0	21.24
				36	29	21.24
				36	30	21.24
				75	0	21.24
	1732.5	20175		1	0	21.27
				1	37	21.27
				1	74	21.27
				36	0	21.27
				36	29	21.27
				36	30	21.27
				75	0	21.27
	1747.5	20325		1	0	21.53
				1	37	21.52
				1	74	21.53
				36	0	21.53
				36	29	21.53
				36	30	21.53
				75	0	21.53

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.30
				1	49	23.06
				1	99	23.13
				50	0	22.22
				50	24	22.32
				50	50	22.30
	1732.5	20175		100	0	22.35
				1	0	23.30
				1	49	23.54
				1	99	23.55
				50	0	22.38
				50	24	22.44
	1745	20300		50	50	22.44
				100	0	22.39
				1	0	23.24
				1	49	24.08
				1	99	24.07
				50	0	22.63
16QAM	1720	20050	50	24	22.47	
			50	50	22.47	
			100	0	22.56	
			1	0	22.60	
			1	49	22.60	
			1	99	22.60	
	1732.5	20175	50	0	21.25	
			50	24	21.35	
			50	50	21.35	
			100	0	21.33	
			1	0	22.57	
			1	49	22.65	
	1745	20300	1	99	22.65	
			50	0	21.35	
			50	24	21.43	
			50	50	21.43	
			100	0	21.38	
			1	0	22.71	
			1	49	23.53	
			1	99	23.57	
			50	0	21.53	
			50	24	21.37	
			50	50	21.37	
			100	0	21.47	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.43
				1	49	21.42
				1	99	21.33
				50	0	21.42
				50	24	21.42
				50	50	21.43
				100	0	21.43
	1732.5	20175		1	0	21.38
				1	49	21.38
				1	99	21.38
				50	0	21.38
				50	24	21.38
				50	50	21.38
				100	0	21.38
	1745	20300		1	0	21.47
				1	49	21.47
				1	99	21.48
				50	0	21.48
				50	24	21.48
				50	50	21.48
				100	0	21.48
				100	0	21.48

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	1.088	Fig.1	1.094	Fig.2	1.088	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	2.683	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	4.450	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	13.350	Fig.37	13.415	Fig.38	13.415	Fig.39
	1732.5	20175		75	0	13.350	Fig.40	13.415	Fig.41	13.415	Fig.42
	1747.5	20325		75	0	13.415	Fig.43	13.415	Fig.44	13.415	Fig.45
	1720	20050	20	100	0	17.800	Fig.46	17.800	Fig.47	17.887	Fig.48
	1732.5	20175		100	0	17.800	Fig.49	17.800	Fig.50	17.887	Fig.51
	1745	20300		100	0	17.800	Fig.52	17.887	Fig.53	17.887	Fig.54

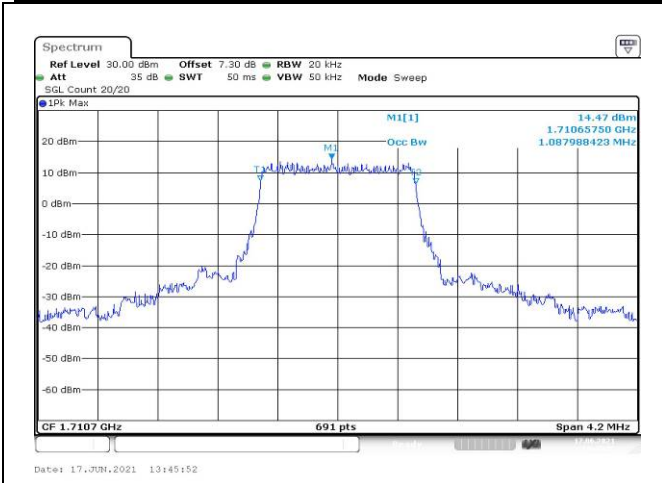


Fig.1

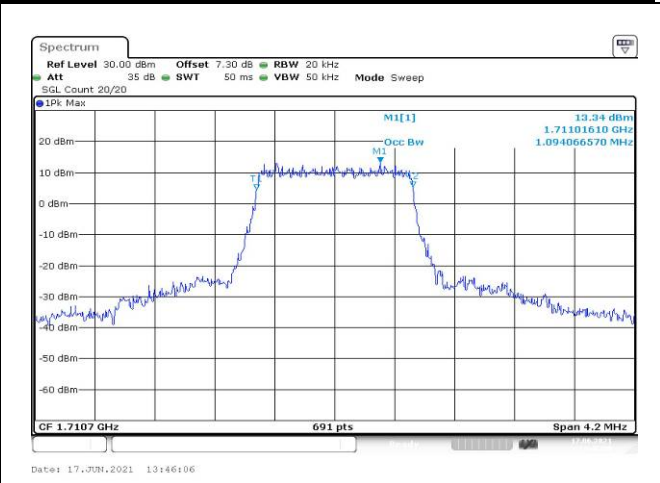


Fig.2

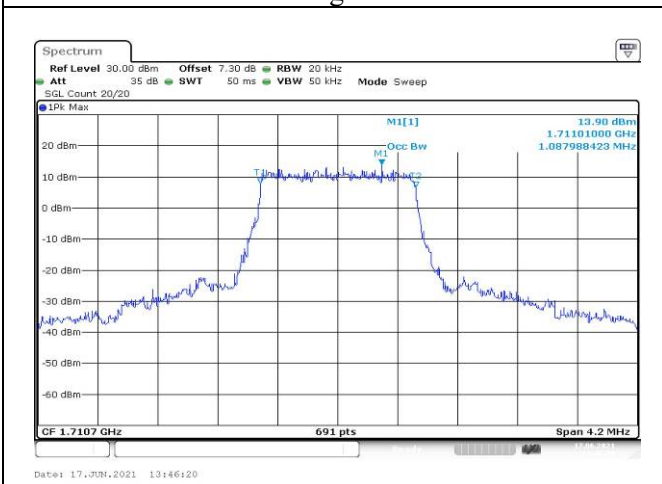


Fig.3

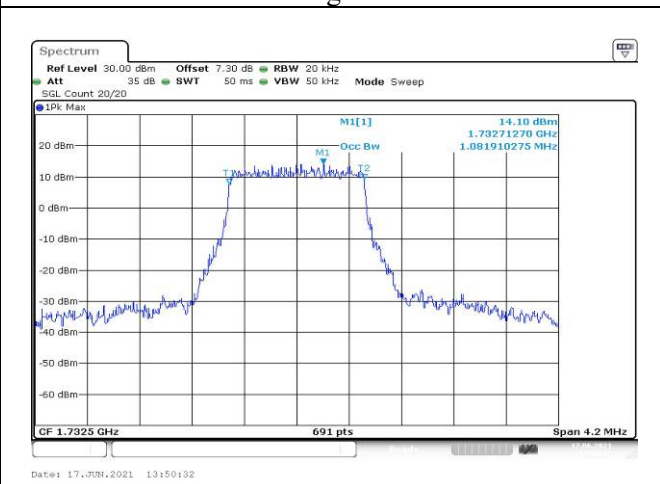


Fig.4

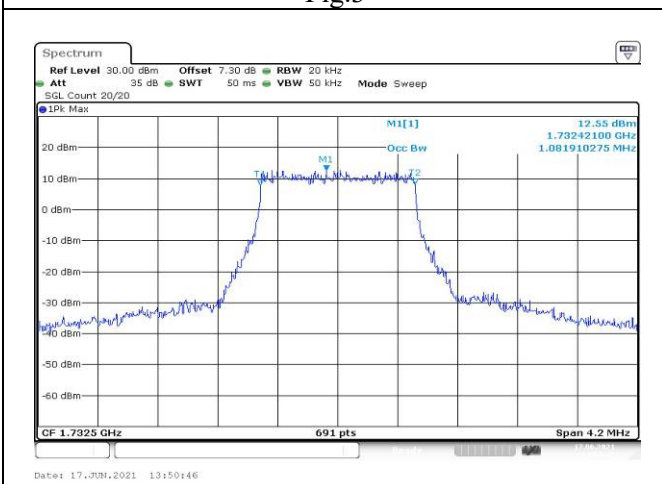


Fig.5

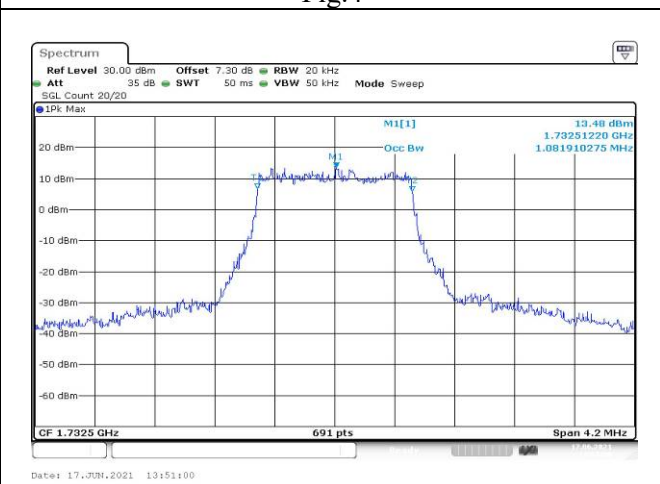


Fig.6

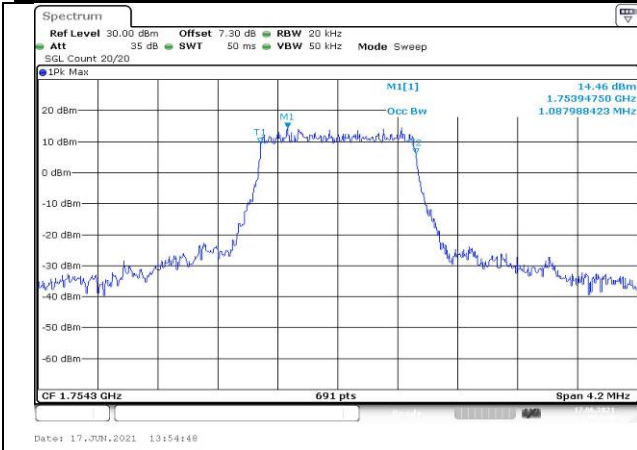


Fig.7

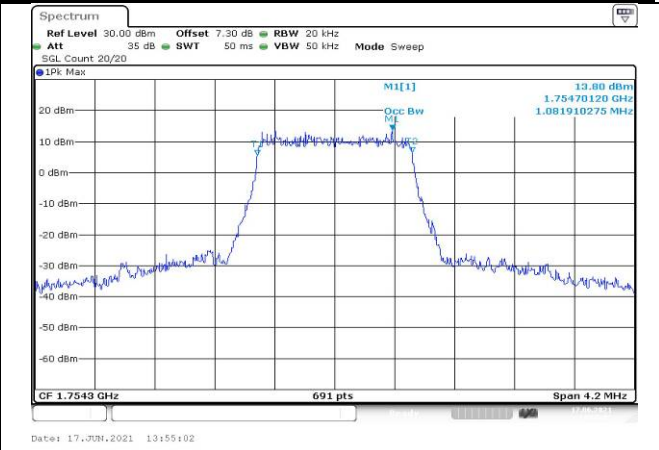


Fig.8

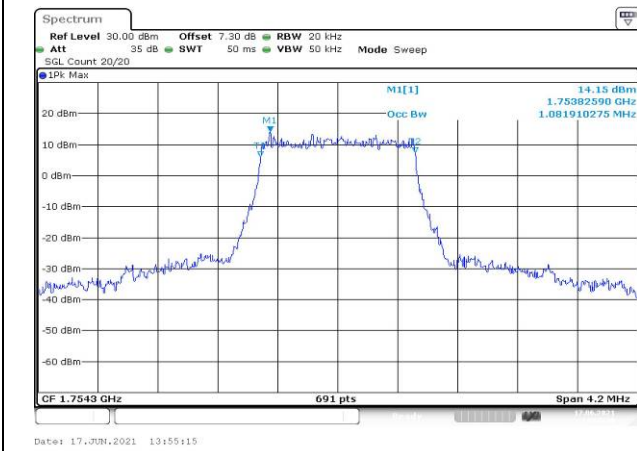


Fig.9

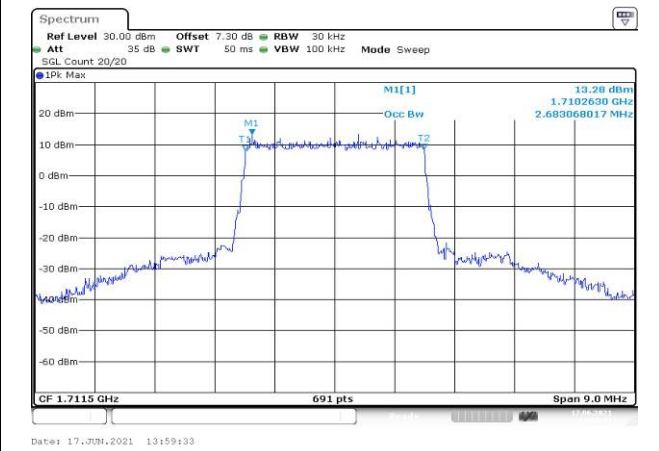


Fig.10

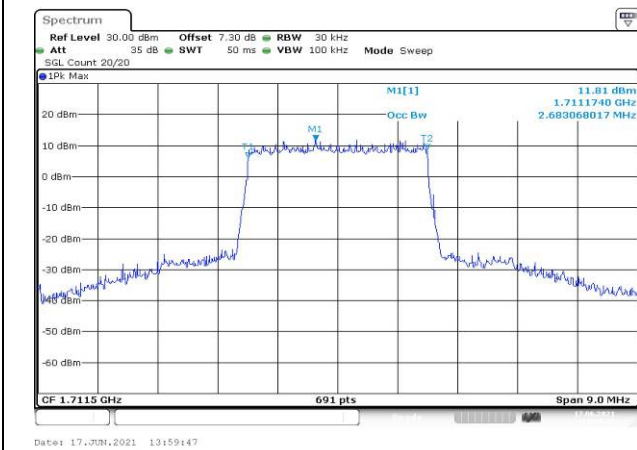


Fig.11

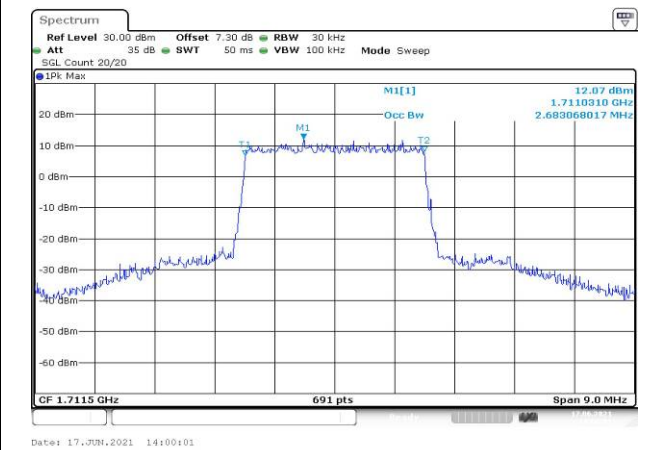


Fig.12

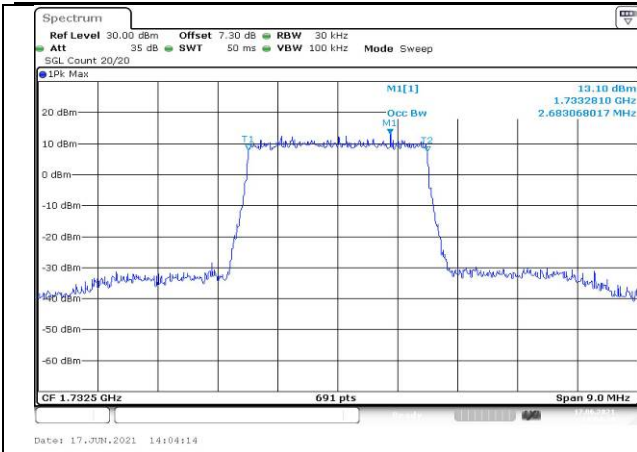


Fig.13

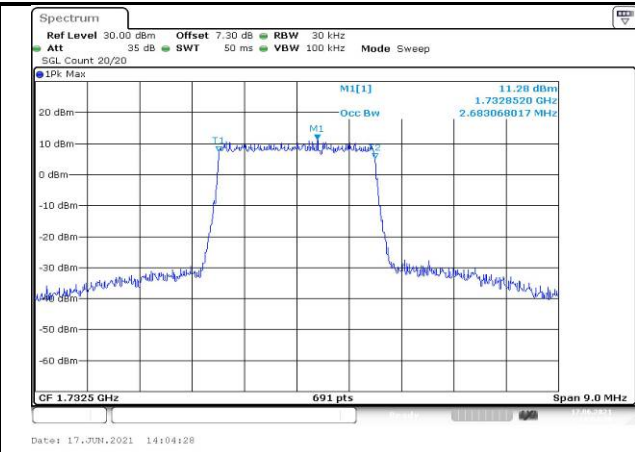


Fig.14

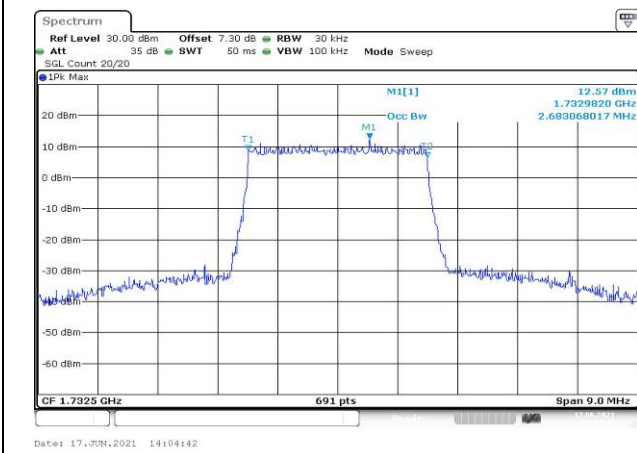


Fig.15

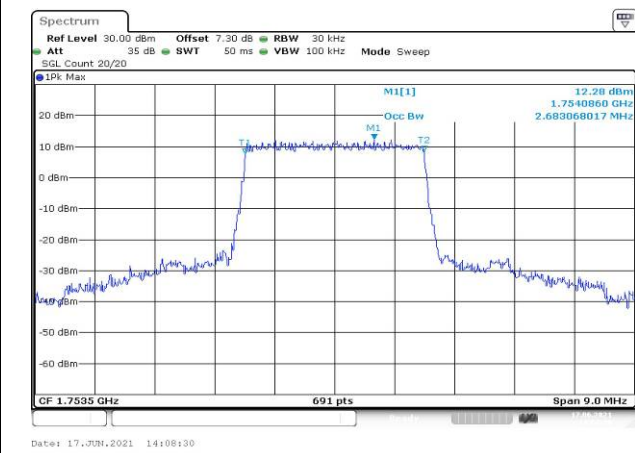


Fig.16

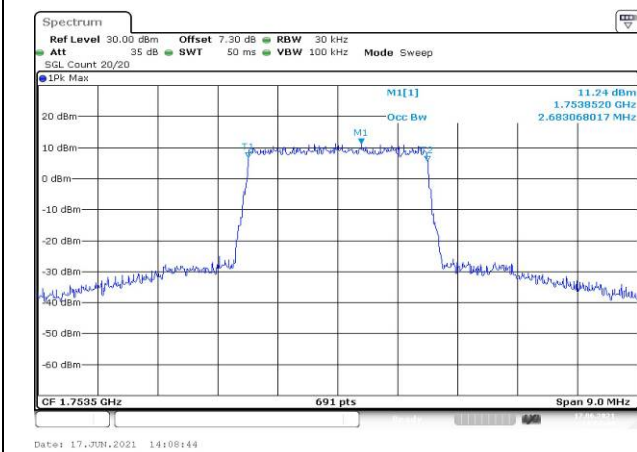


Fig.17

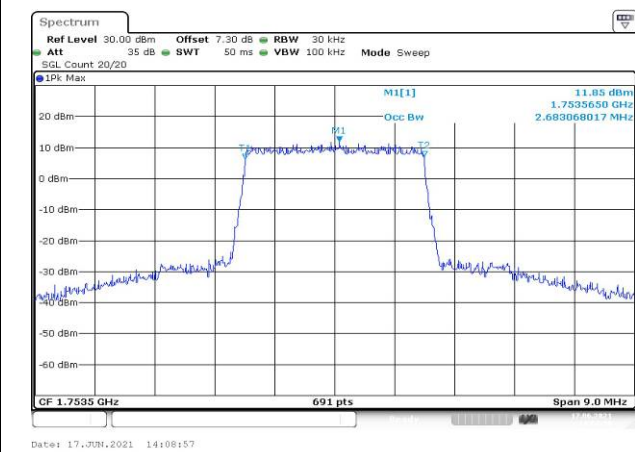


Fig.18



Fig.19



Fig.20

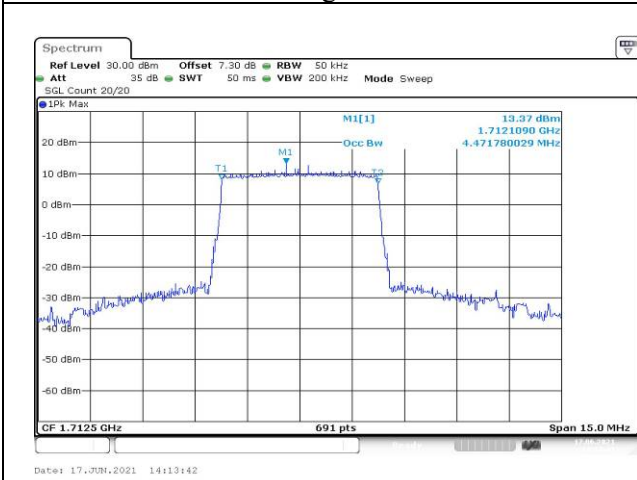


Fig.21

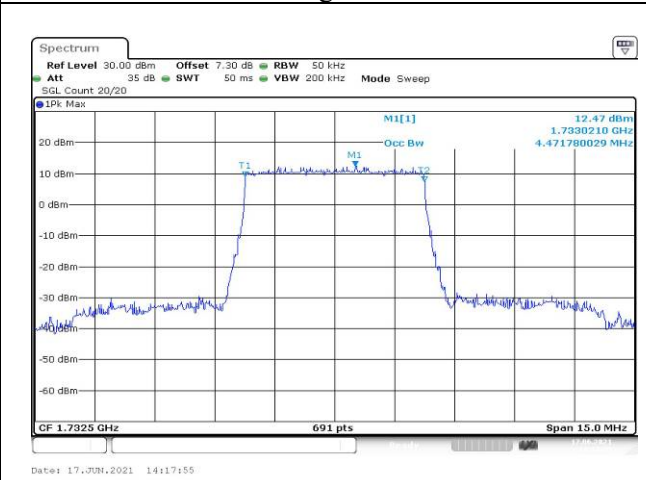


Fig.22

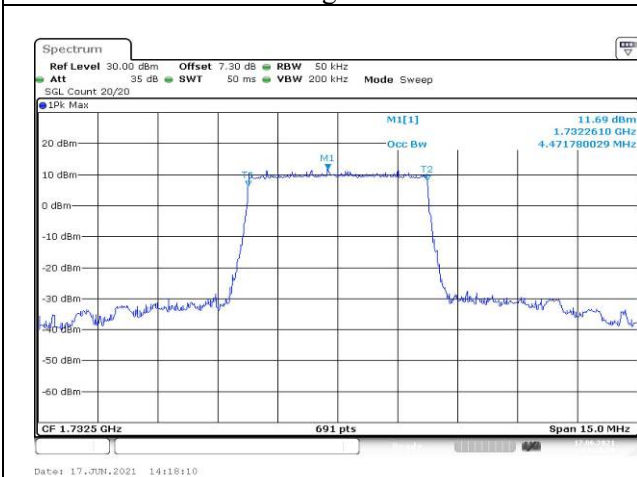


Fig.23

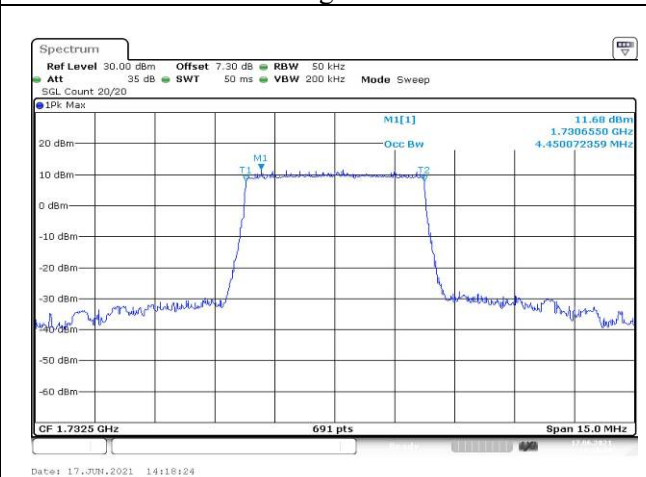


Fig.24

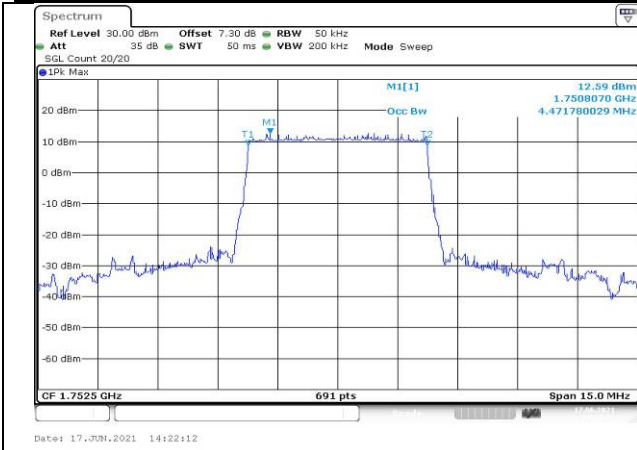


Fig.25

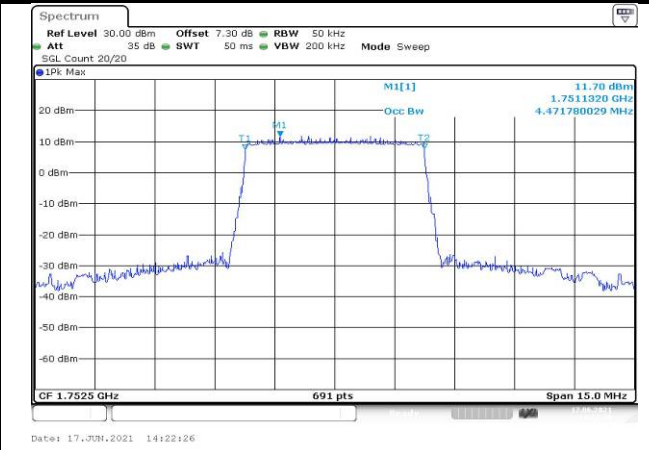


Fig.26

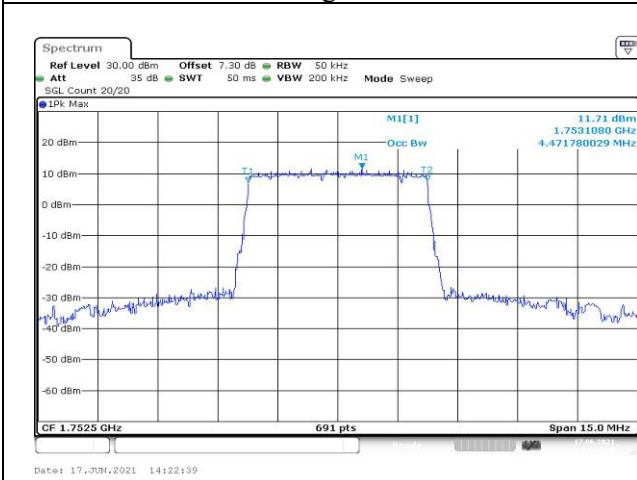


Fig.27

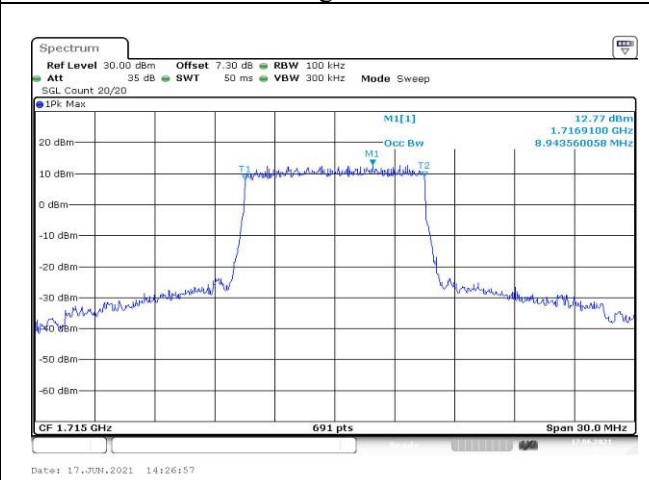


Fig.28

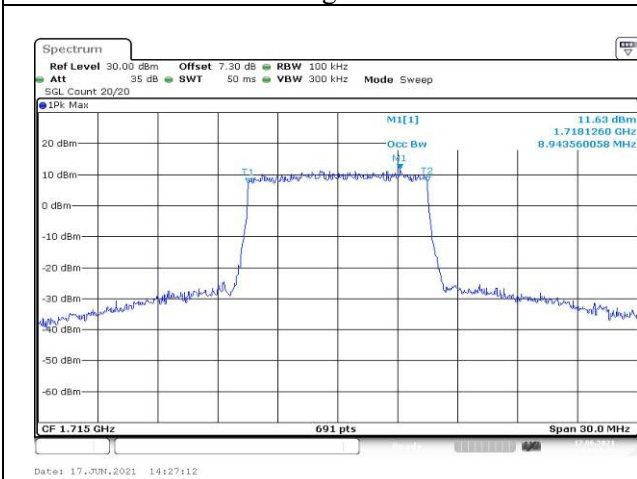


Fig.29

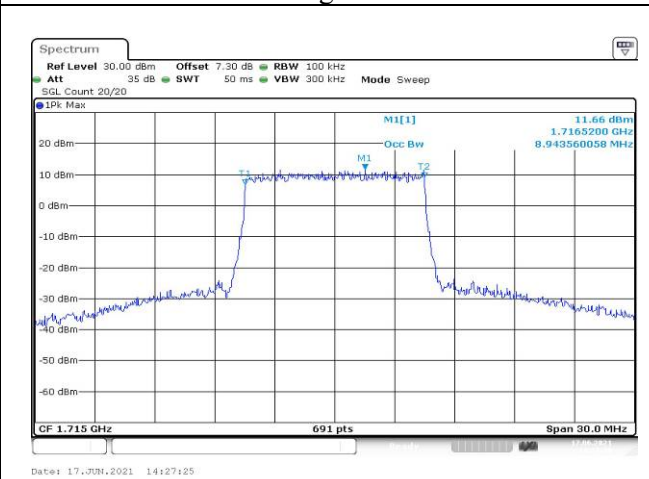


Fig.30

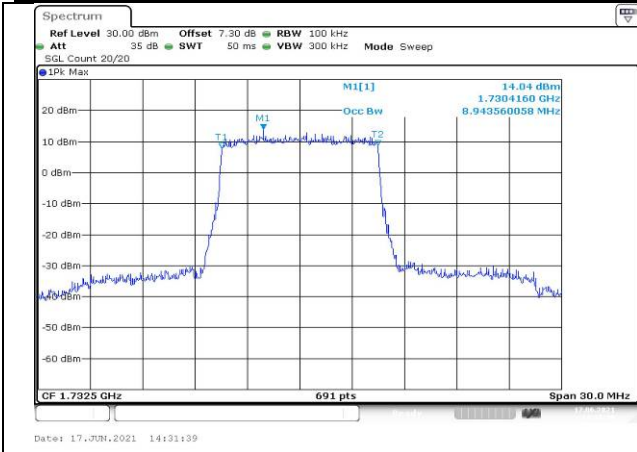


Fig.31

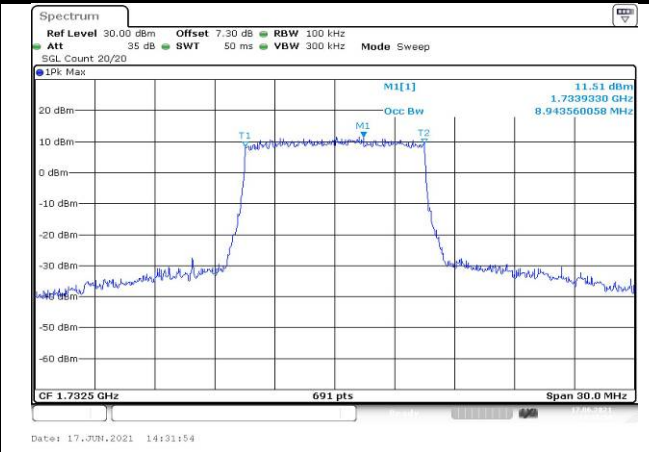


Fig.32

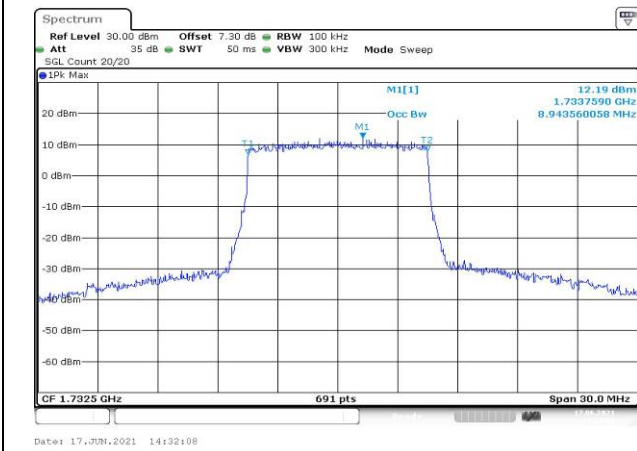


Fig.33

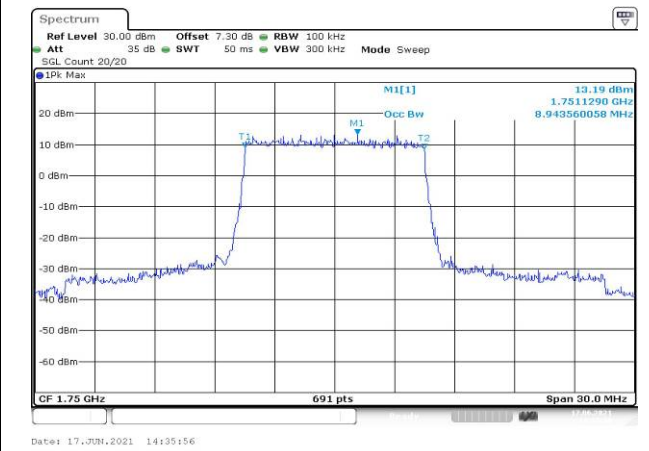


Fig.34

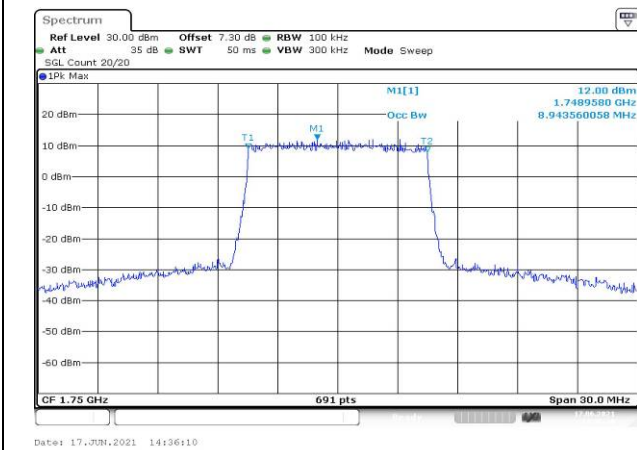


Fig.35

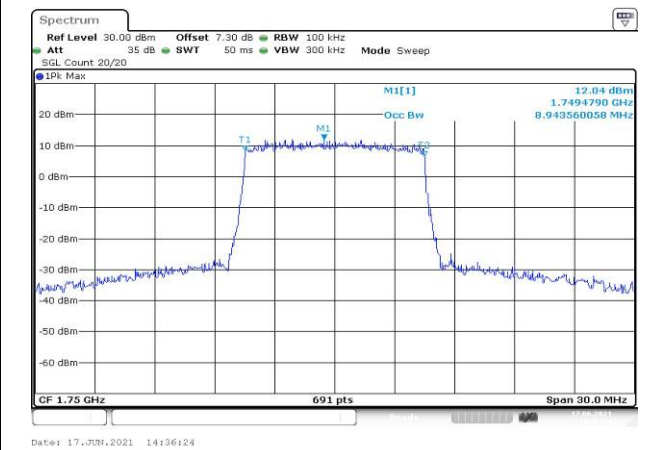


Fig.36



Fig.37



Fig.38

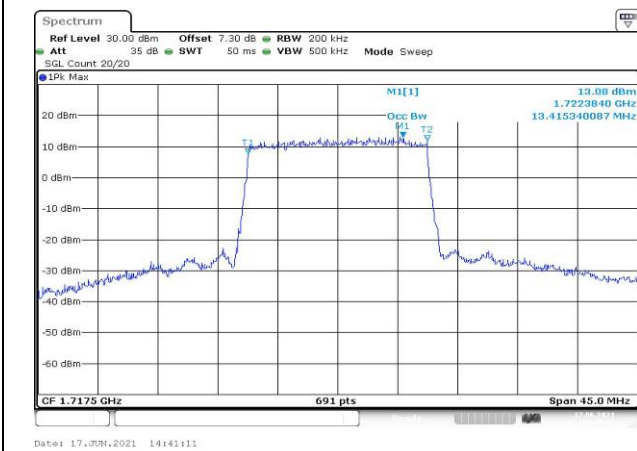


Fig.39

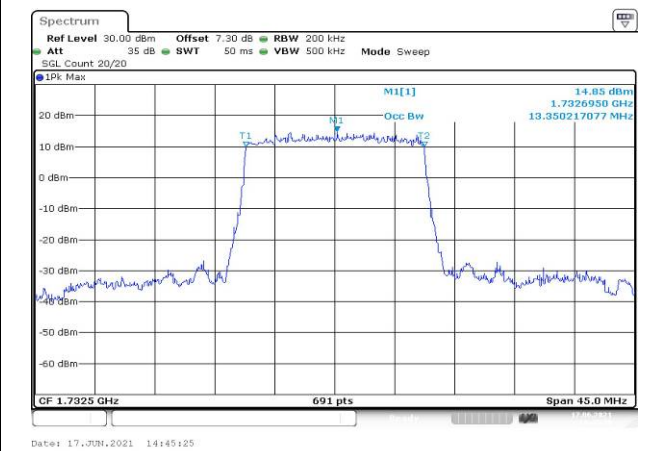


Fig.40

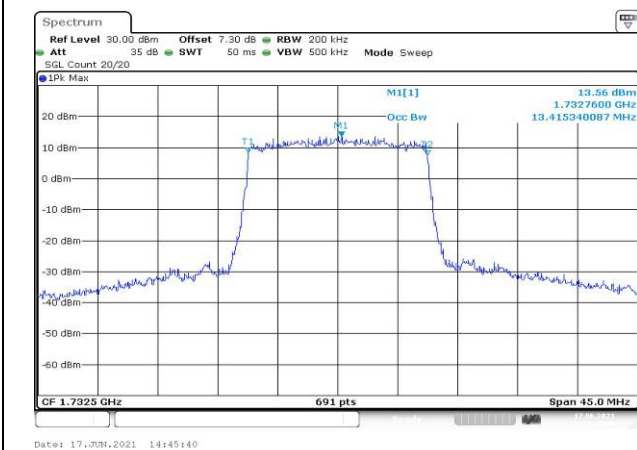


Fig.41

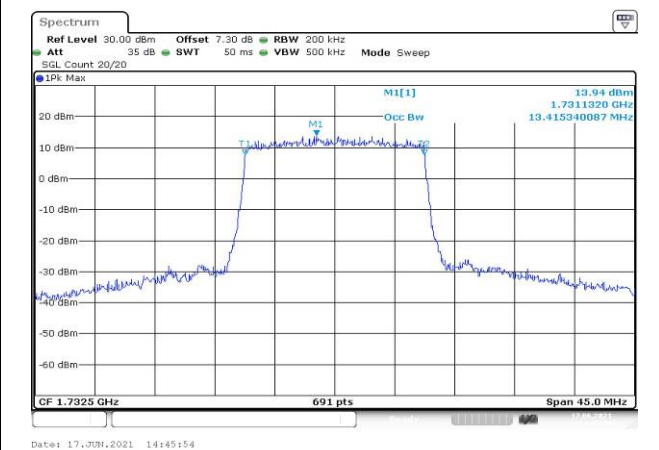


Fig.42

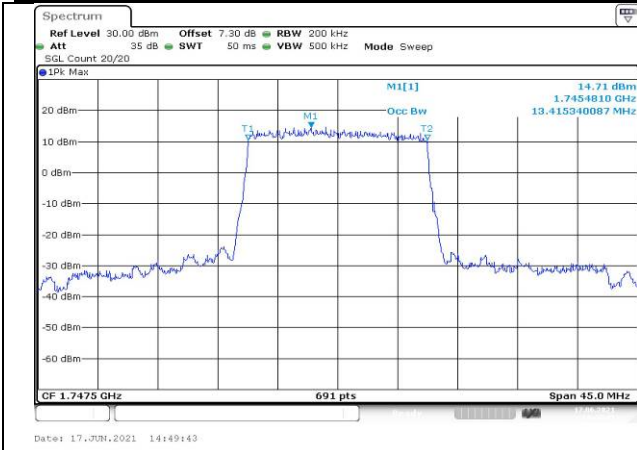


Fig.43

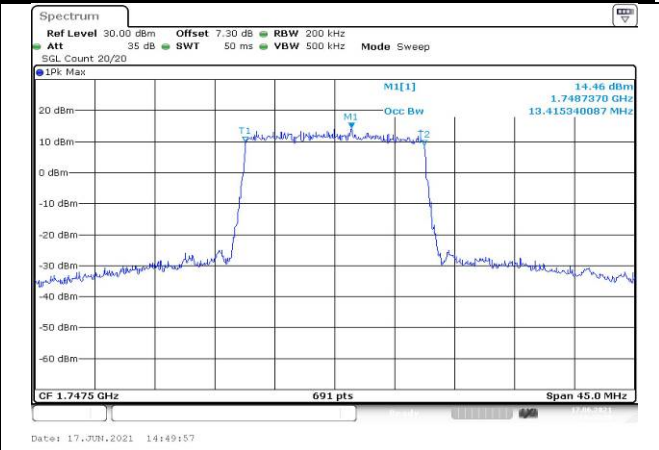


Fig.44

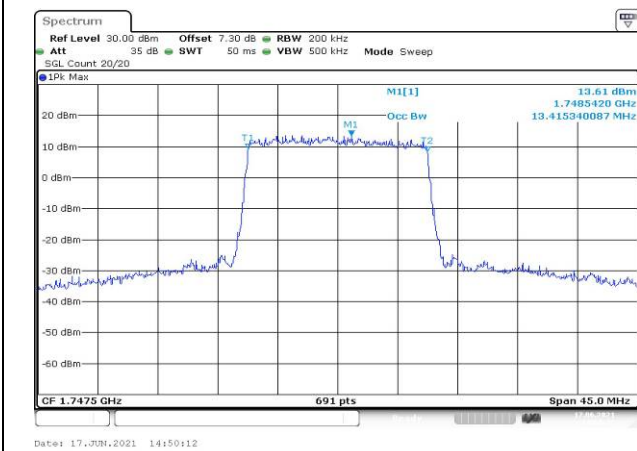


Fig.45



Fig.46

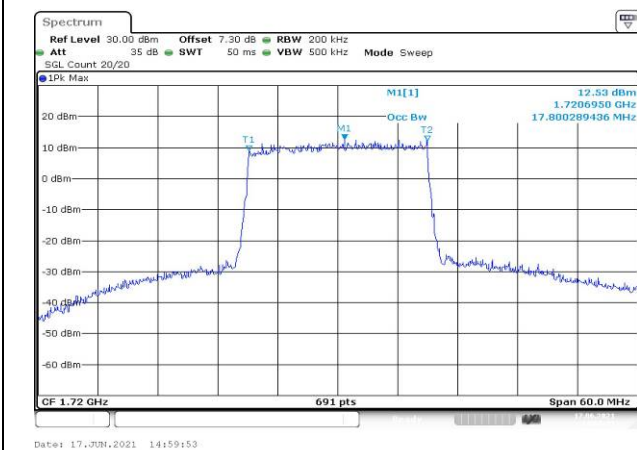


Fig.47

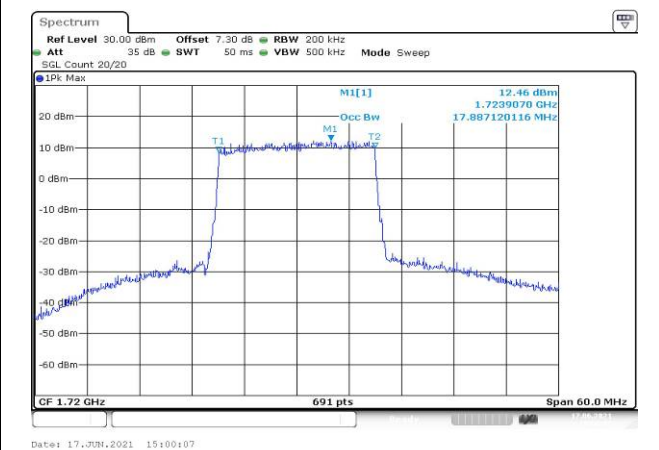


Fig.48