APPENDIX A2 – 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	23.87
				1	3	23.79
				1	5	23.81
				3	0	23.92
				3	1	23.92
				3	3	23.91
				6	0	22.89
16QAM				1	0	22.46
				1	3	22.48
				1	5	22.48
				3	0	22.67
				3	1	22.65
				3	3	22.66
				6	0	21.91
	1732.5	20175		1	0	22.77
				1	3	22.70
				1	5	22.78
				3	0	22.65
				3	1	22.77
				3	3	22.64
				6	0	21.90
	1754.3	20393		1	0	23.87
				1	3	23.89
				1	5	23.86
				3	0	23.18
				3	1	23.29
				3	3	23.28
				6	0	22.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1710.7	19957	1.4	1	0	21.83
				1	3	21.82
				1	5	21.91
				3	0	22.13
				3	1	22.13
				3	3	22.13
				6	0	22.04
	1732.5	20175		1	0	21.84
				1	3	21.97
				1	5	21.88
				3	0	21.91
				3	1	21.82
				3	3	21.91
				6	0	21.90
	1754.3	20393		1	0	22.29
				1	3	22.37
				1	5	22.36
				3	0	22.35
				3	1	22.35
				3	3	22.34
				6	0	22.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	23.88
				1	8	23.72
				1	14	23.68
				8	0	22.91
				8	4	23.02
				8	7	22.83
				15	0	22.84
	1732.5	20175		1	0	23.50
				1	8	23.58
				1	14	23.57
				8	0	22.58
				8	4	22.51
				8	7	22.50
				15	0	22.49
	1753.5	20385		1	0	24.29
				1	8	24.30
				1	14	24.29
				8	0	23.12
				8	4	23.16
				8	7	23.16
				15	0	23.21
16QAM	1711.5	19965		1	0	23.27
				1	8	23.27
				1	14	23.27
				8	0	22.17
				8	4	22.19
				8	7	22.24
				15	0	21.95
	1732.5	20175		1	0	23.43
				1	8	23.41
				1	14	23.30
				8	0	21.72
				8	4	21.77
				8	7	21.69
				15	0	21.57
	1753.5	20385		1	0	22.95
				1	8	23.02
				1	14	23.02
				8	0	22.45
				8	4	22.52
				8	7	22.48
				15	0	22.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1711.5	19965	3	1	0	22.07
				1	8	21.97
				1	14	21.94
				8	0	21.94
				8	4	21.94
				8	7	21.94
				15	0	21.94
	1732.5	20175		1	0	21.57
				1	8	21.57
				1	14	21.58
				8	0	21.58
				8	4	21.62
				8	7	21.58
				15	0	21.58
	1753.5	20385		1	0	22.32
				1	8	22.32
				1	14	22.32
				8	0	22.32
				8	4	22.32
				8	7	22.53
				15	0	22.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	23.88
				1	12	23.83
				1	24	23.72
				12	0	22.86
				12	7	22.89
				12	13	22.89
				25	0	22.87
	1732.5	20175		1	0	23.54
				1	12	23.61
				1	24	23.66
				12	0	22.64
				12	7	22.49
				12	13	22.60
				25	0	22.57
	1752.5	20375		1	0	24.10
				1	12	24.05
				1	24	24.05
				12	0	23.26
				12	7	23.23
				12	13	23.23
				25	0	23.19
16QAM	1712.5	19975		1	0	22.11
				1	12	22.05
				1	24	22.05
				12	0	21.90
				12	7	21.92
				12	13	21.86
				25	0	21.99
	1732.5	20175		1	0	22.45
				1	12	22.49
				1	24	22.61
				12	0	21.57
				12	7	21.47
				12	13	21.42
				25	0	21.51
	1752.5	20375		1	0	22.78
				1	12	22.84
				1	24	22.83
				12	0	22.03
				12	7	22.07
				12	13	22.28
				25	0	22.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1712.5	19975	5	1	0	21.98
				1	12	21.99
				1	24	22.07
				12	0	21.99
				12	7	21.98
				12	13	21.99
				25	0	21.99
	1732.5	20175		1	0	21.52
				1	12	21.55
				1	24	21.63
				12	0	21.63
				12	7	21.63
				12	13	21.63
				25	0	21.64
	1752.5	20375		1	0	22.31
				1	12	22.31
				1	24	22.31
				12	0	22.30
				12	7	22.34
				12	13	22.30
				25	0	22.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	23.77
				1	25	23.72
				1	49	23.70
				25	0	22.84
				25	12	22.84
				25	25	22.83
				50	0	22.79
	1732.5	20175		1	0	23.67
				1	25	23.76
				1	49	23.74
				25	0	22.44
				25	12	22.62
				25	25	22.62
				50	0	22.54
	1750	20350		1	0	24.17
				1	25	24.37
				1	49	24.36
				25	0	22.80
				25	12	23.18
				25	25	23.18
				50	0	23.06
16QAM	1715	20000		1	0	23.08
				1	25	22.90
				1	49	22.90
				25	0	21.90
				25	12	21.88
				25	25	21.88
				50	0	21.78
	1732.5	20175		1	0	22.76
				1	25	22.80
				1	49	22.80
				25	0	21.75
				25	12	21.75
				25	25	21.75
				50	0	21.72
	1750	20350		1	0	22.63
				1	25	22.85
				1	49	22.86
				25	0	21.98
				25	12	22.35
				25	25	22.35
				50	0	22.19

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1715	20000	10	1	0	21.83
				1	25	21.83
				1	49	21.79
				25	0	21.78
				25	12	21.83
				25	25	21.86
				50	0	21.87
	1732.5	20175		1	0	21.72
				1	25	21.72
				1	49	21.71
				25	0	21.72
				25	12	21.72
				25	25	21.71
				50	0	21.71
	1750	20350		1	0	22.01
				1	25	22.19
				1	49	22.19
				25	0	22.27
				25	12	22.18
				25	25	22.19
				50	0	22.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	23.86
				1	37	23.51
				1	74	23.50
				36	0	22.78
				36	29	22.72
				36	30	22.71
				75	0	22.78
	1732.5	20175		1	0	23.73
				1	37	23.86
				1	74	23.70
				36	0	22.54
				36	29	22.65
				36	30	22.66
				75	0	22.64
	1747.5	20325		1	0	23.88
				1	37	24.23
				1	74	24.24
				36	0	23.04
				36	29	23.28
				36	30	23.28
				75	0	22.88
16QAM	1717.5	20025		1	0	23.10
				1	37	22.81
				1	74	22.80
				36	0	21.87
				36	29	21.72
				36	30	21.73
				75	0	21.85
	1732.5	20175		1	0	22.76
				1	37	22.89
				1	74	22.89
				36	0	21.85
				36	29	21.68
				36	30	21.86
				75	0	21.72
	1747.5	20325		1	0	23.24
				1	37	23.55
				1	74	23.55
				36	0	22.03
				36	29	22.33
				36	30	22.33
				75	0	21.88

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1717.5	20025	15	1	0	21.85
				1	37	21.85
				1	74	21.85
				36	0	21.85
				36	29	21.86
				36	30	21.86
				75	0	21.86
	1732.5	20175		1	0	21.73
				1	37	21.73
				1	74	21.77
				36	0	21.73
				36	29	21.87
				36	30	21.87
				75	0	21.78
	1747.5	20325		1	0	21.88
				1	37	21.88
				1	74	21.87
				36	0	21.88
				36	29	21.88
				36	30	21.88
				75	0	21.88

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	23.97
				1	49	23.62
				1	99	23.72
				50	0	22.79
				50	24	22.63
				50	50	22.63
				100	0	22.69
	1732.5	20175		1	0	23.75
				1	49	23.95
				1	99	23.94
				50	0	22.67
				50	24	22.71
				50	50	22.71
				100	0	22.50
	1745	20300		1	0	23.72
				1	49	24.31
				1	99	24.32
				50	0	22.85
				50	24	23.00
				50	50	23.01
				100	0	23.06
16QAM	1720	20050		1	0	22.93
				1	49	22.67
				1	99	22.66
				50	0	21.91
				50	24	21.74
				50	50	21.75
				100	0	21.76
	1732.5	20175		1	0	23.19
				1	49	23.33
				1	99	23.33
				50	0	21.83
				50	24	21.87
				50	50	21.88
				100	0	21.64
	1745	20300		1	0	23.38
				1	49	23.83
				1	99	23.83
				50	0	21.94
				50	24	22.11
				50	50	22.11
				100	0	22.21

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1720	20050	20	1	0	21.76
				1	49	21.76
				1	99	21.76
				50	0	21.76
				50	24	21.77
				50	50	21.76
				100	0	21.77
	1732.5	20175		1	0	21.64
				1	49	21.64
				1	99	21.64
				50	0	21.64
				50	24	21.64
				50	50	21.64
				100	0	21.64
	1745	20300		1	0	22.22
				1	49	22.21
				1	99	22.22
				50	0	22.22
				50	24	22.21
				50	50	22.21
				100	0	22.21

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	1.082	Fig.7	1.082	Fig.8	1.088	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	4.472	Fig.24
	1752.5	20375		25	0	4.472	Fig.25	4.493	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	13.415	Fig.37	13.415	Fig.38	13.415	Fig.39
	1732.5	20175		75	0	13.415	Fig.40	13.415	Fig.41	13.480	Fig.42
	1747.5	20325		75	0	13.415	Fig.43	13.415	Fig.44	13.480	Fig.45
	1720	20050	20	100	0	17.887	Fig.46	17.887	Fig.47	17.887	Fig.48
	1732.5	20175		100	0	17.887	Fig.49	17.887	Fig.50	17.887	Fig.51
	1745	20300		100	0	17.974	Fig.52	17.974	Fig.53	17.887	Fig.54

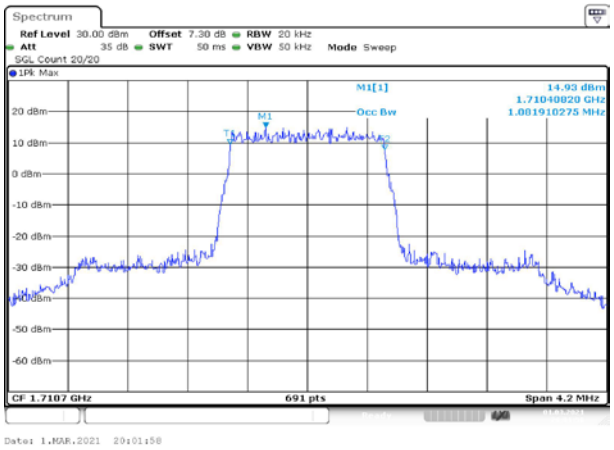


Fig.1

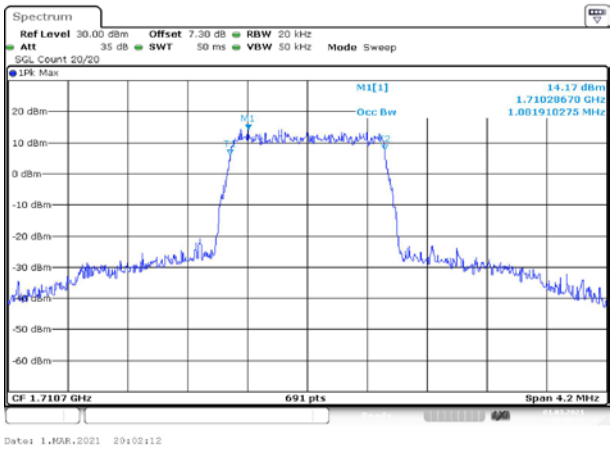


Fig.2

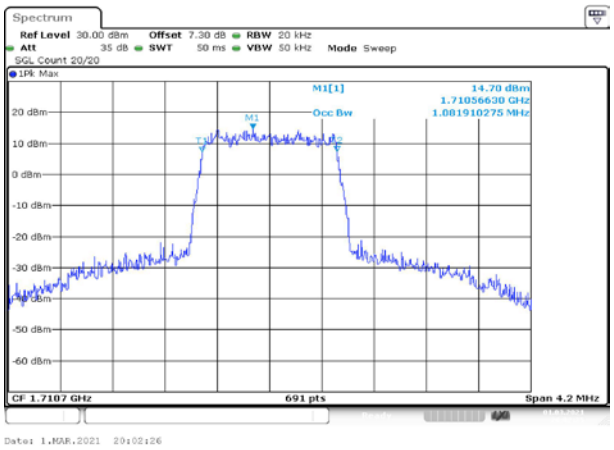


Fig.3

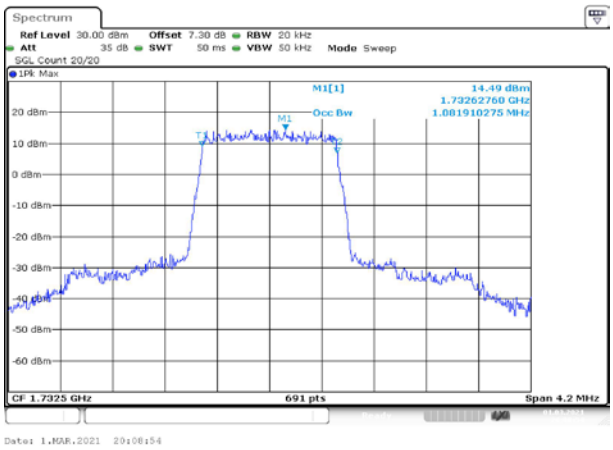


Fig.4

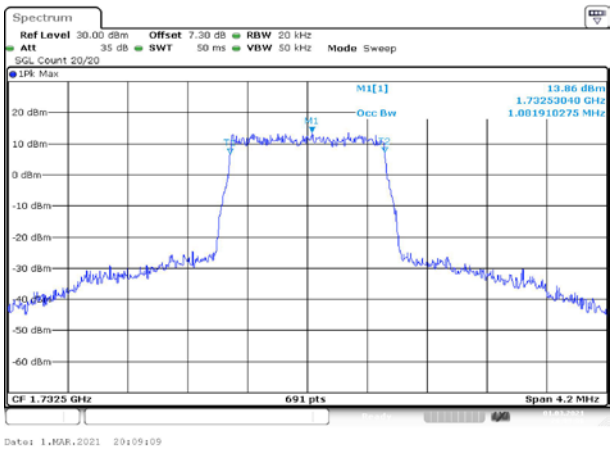


Fig.5

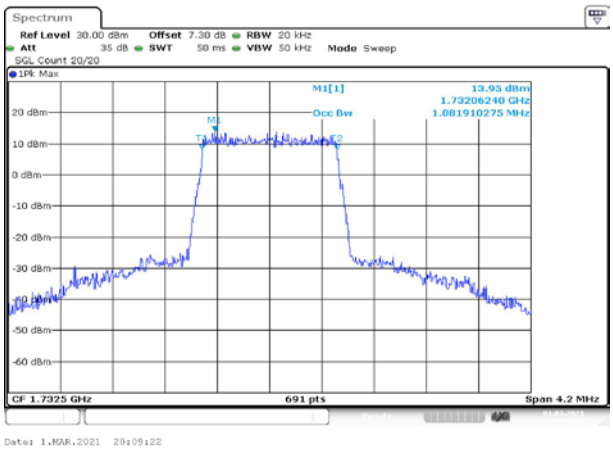


Fig.6

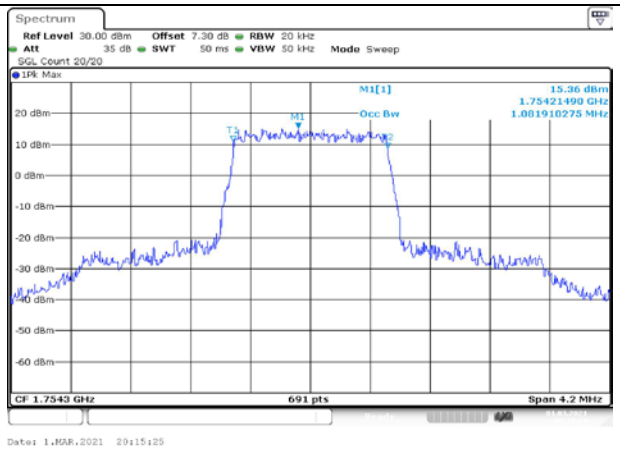


Fig.7

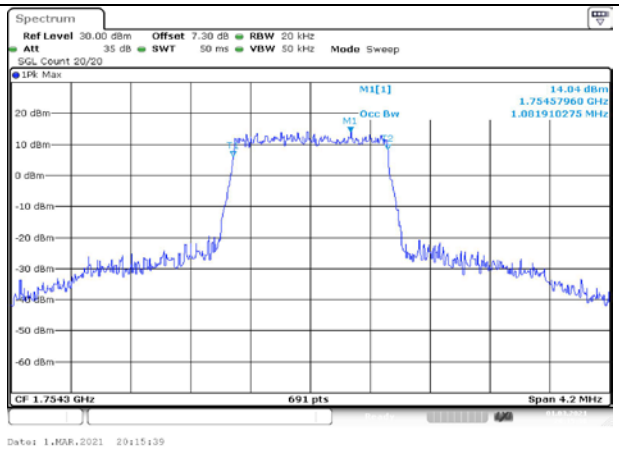


Fig.8

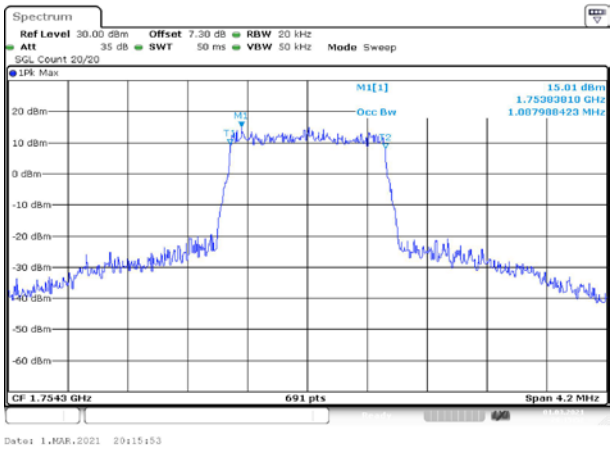


Fig.9

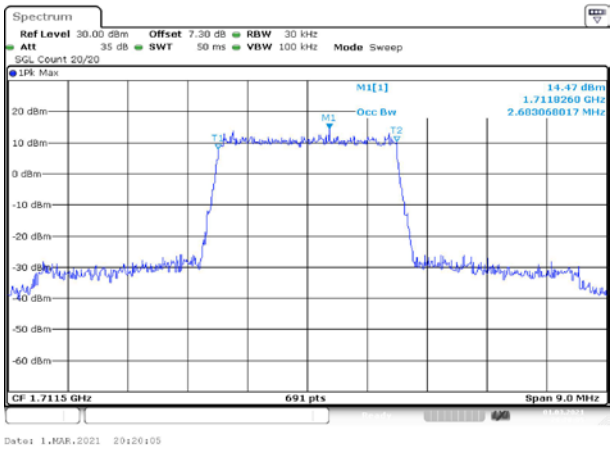


Fig.10

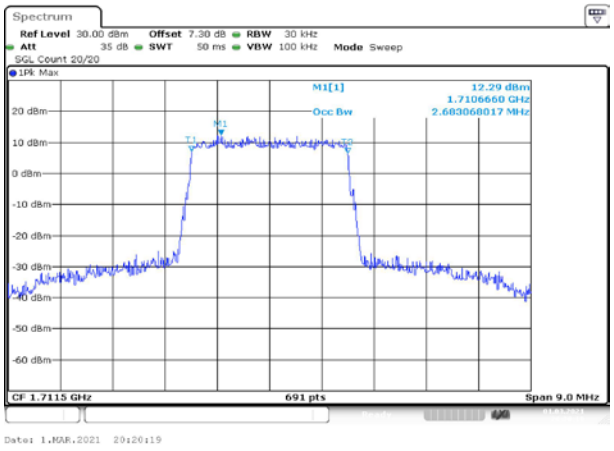


Fig.11

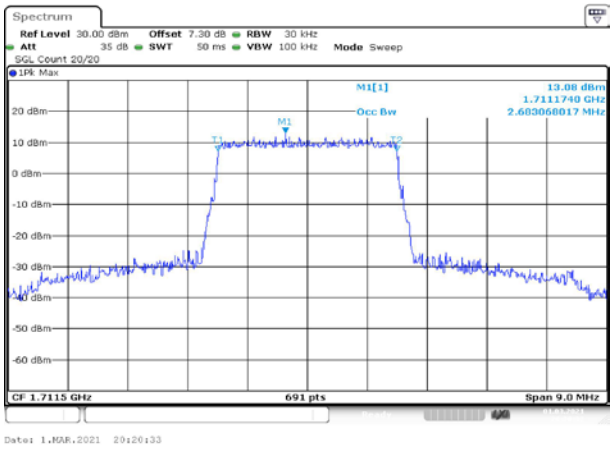


Fig.12

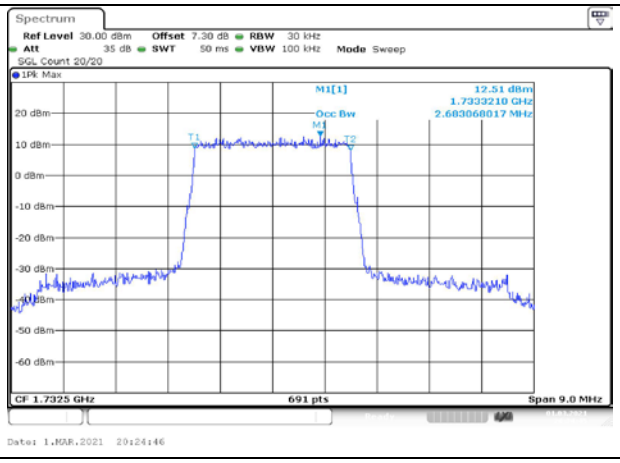


Fig.13

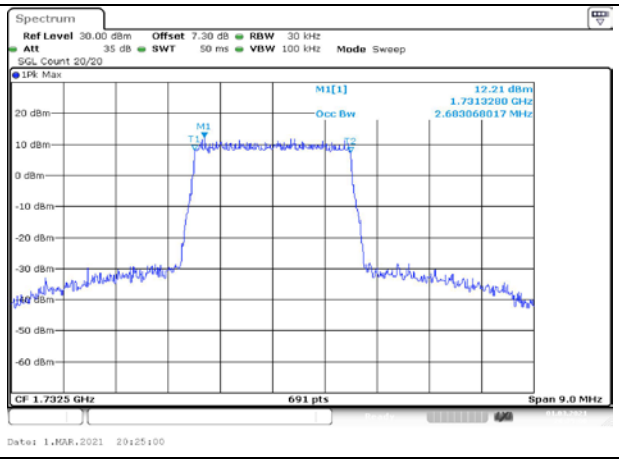


Fig.14

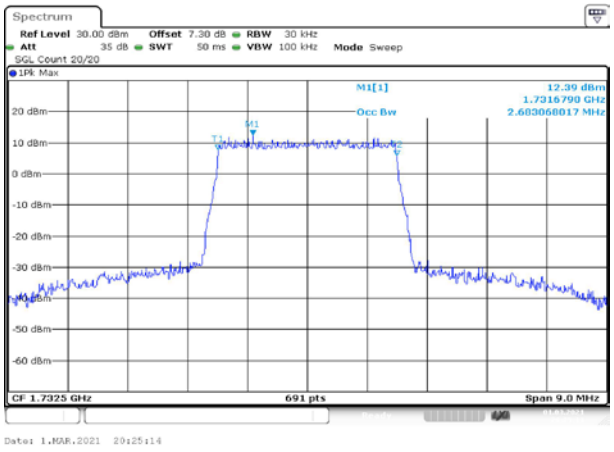


Fig.15

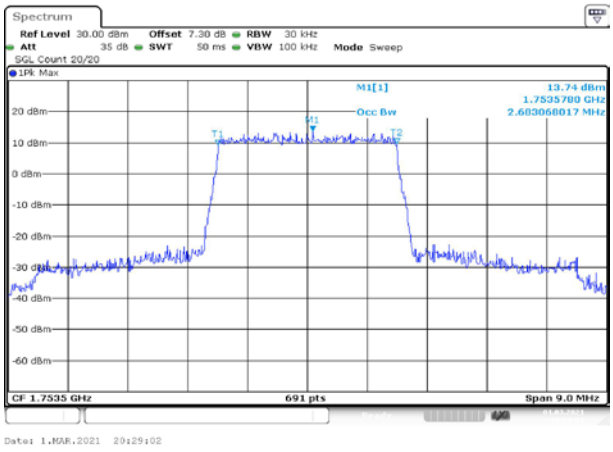


Fig.16

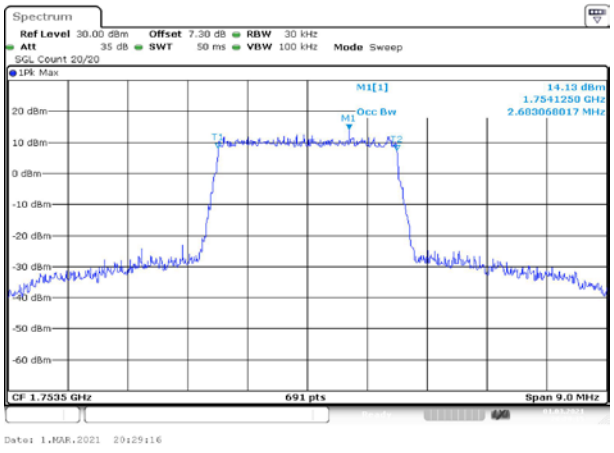
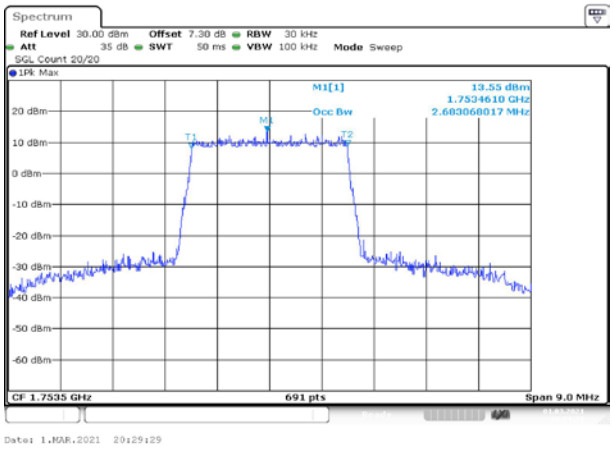


Fig.17



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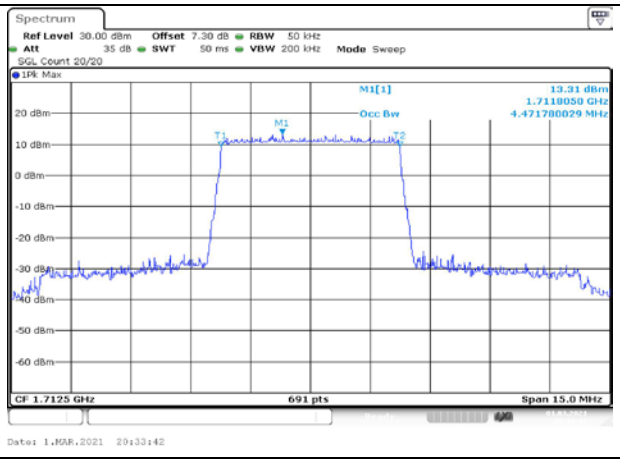

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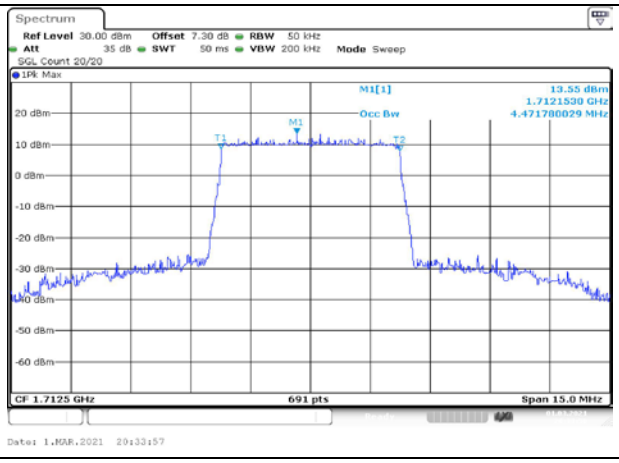

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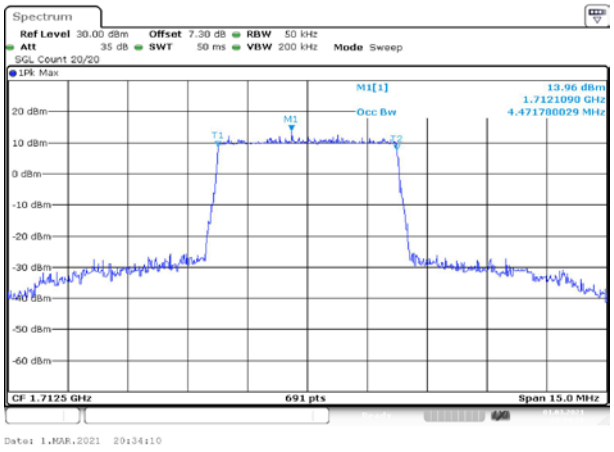

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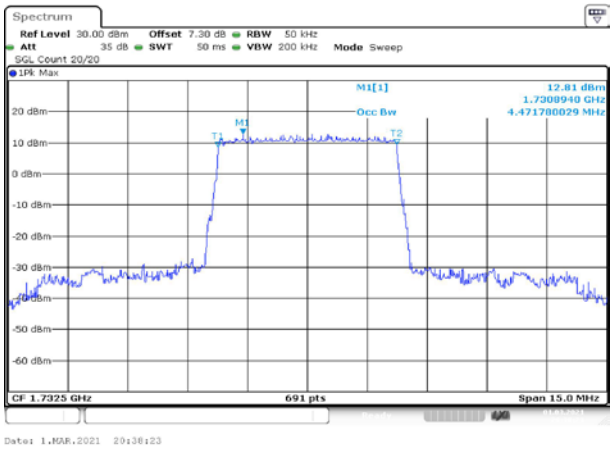

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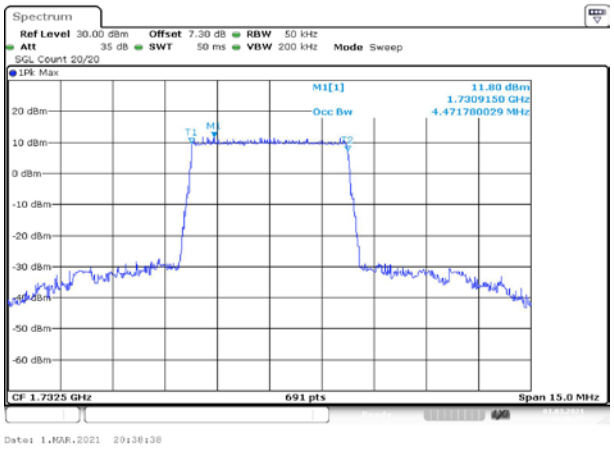

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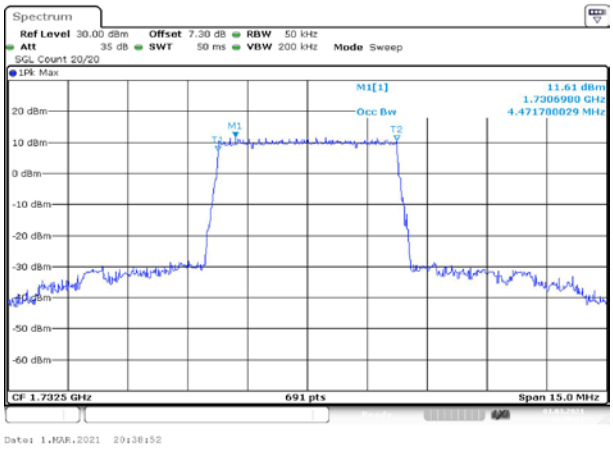

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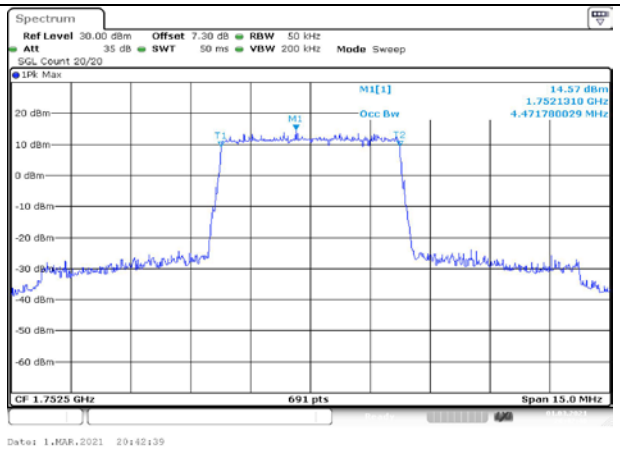

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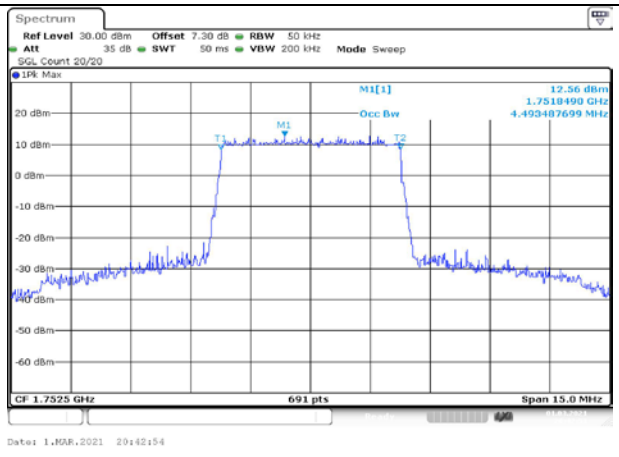

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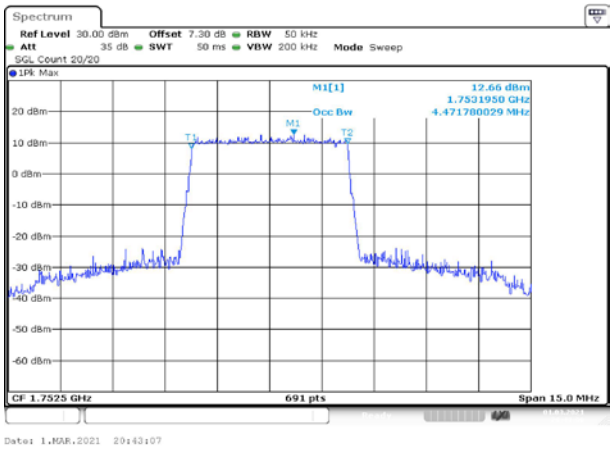

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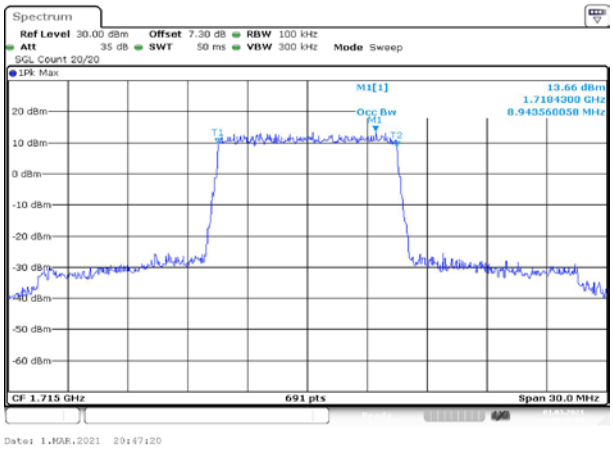

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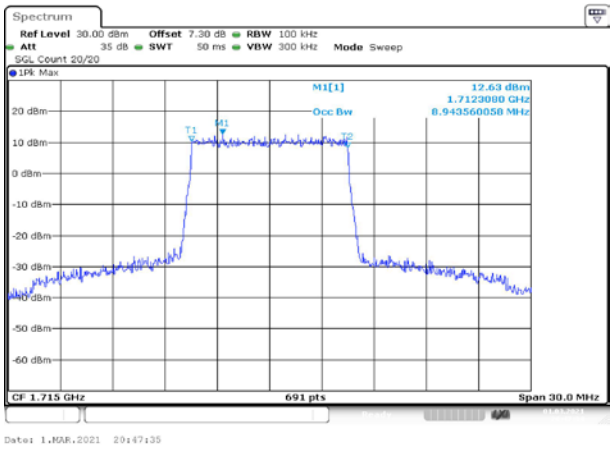

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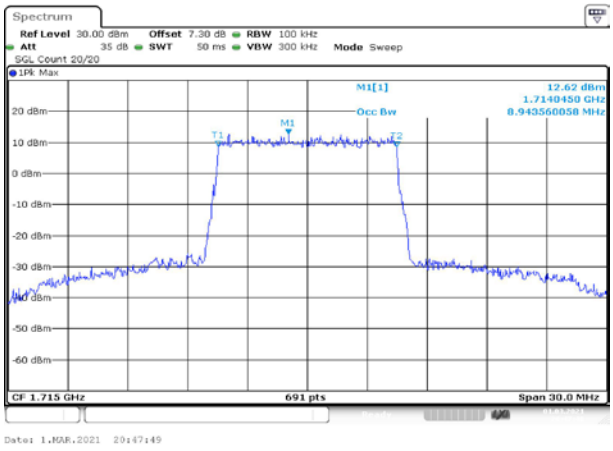

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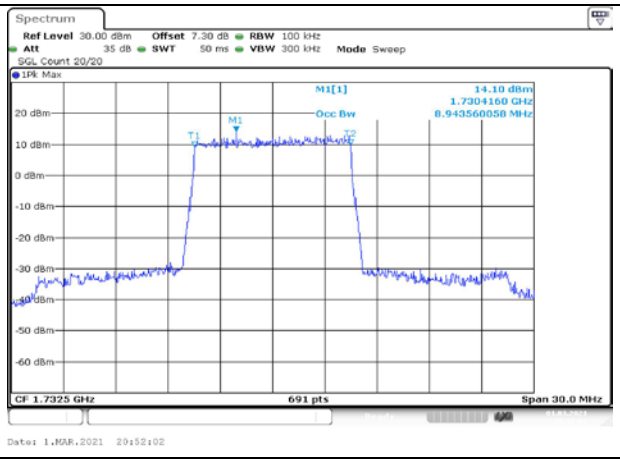

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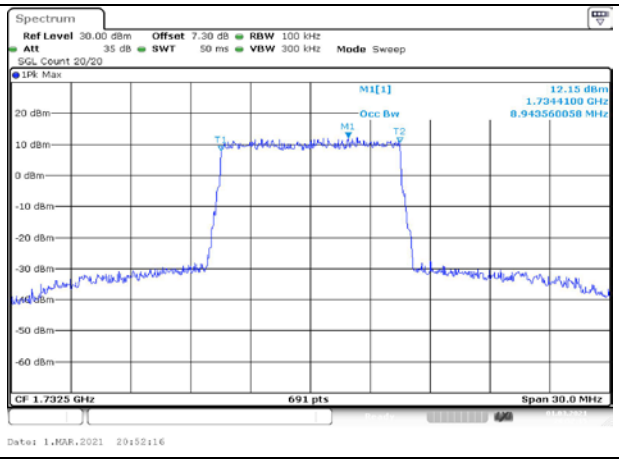

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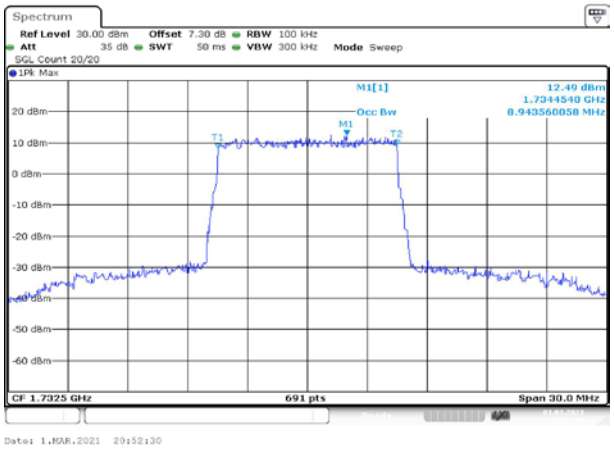

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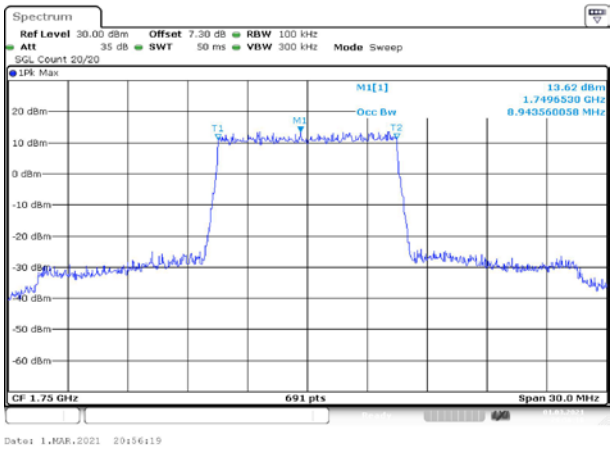

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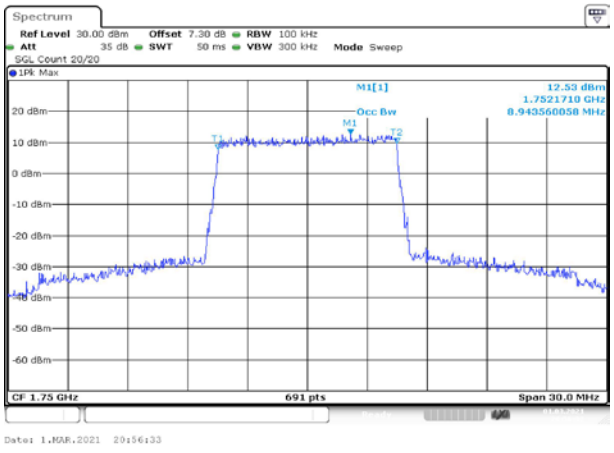

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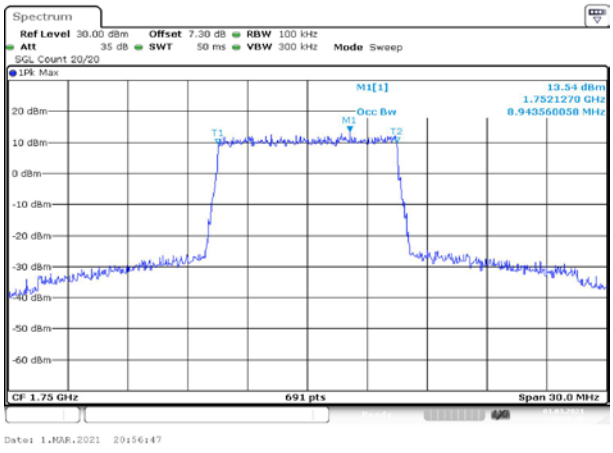

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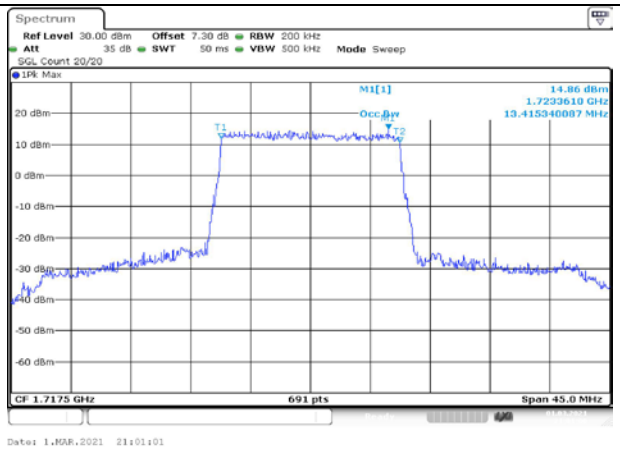

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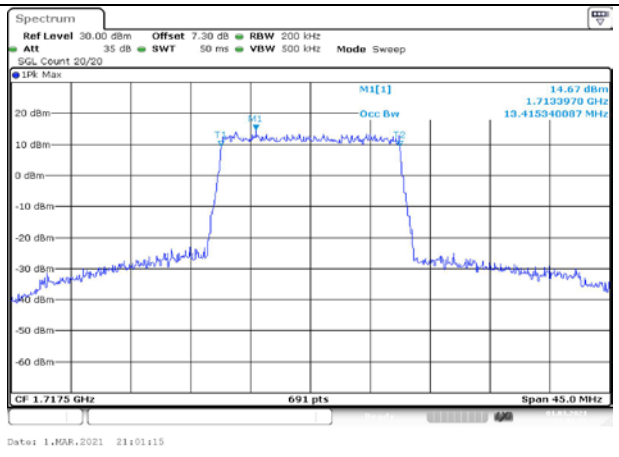

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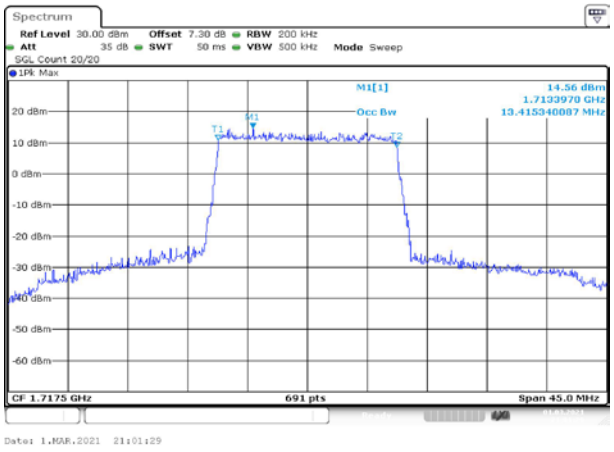

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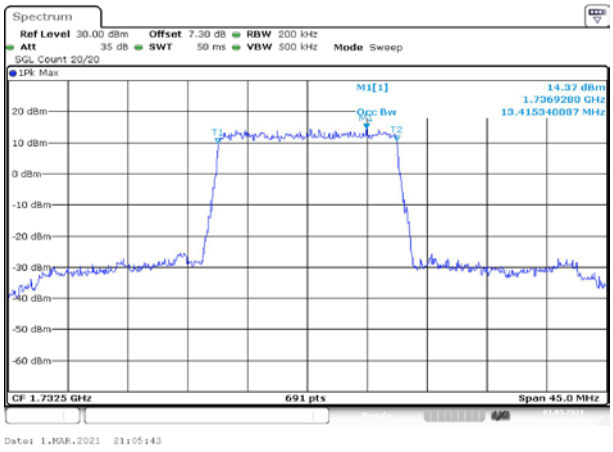

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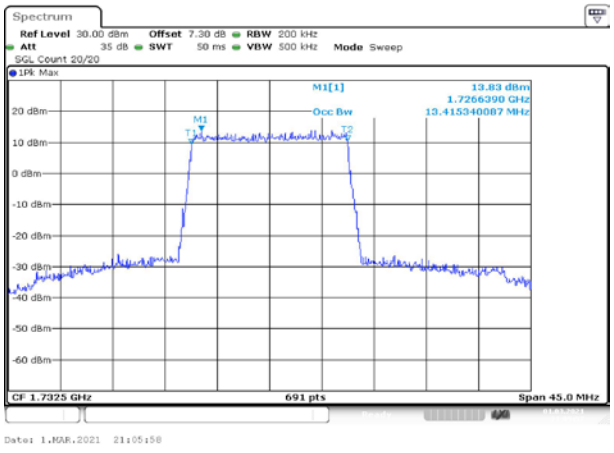

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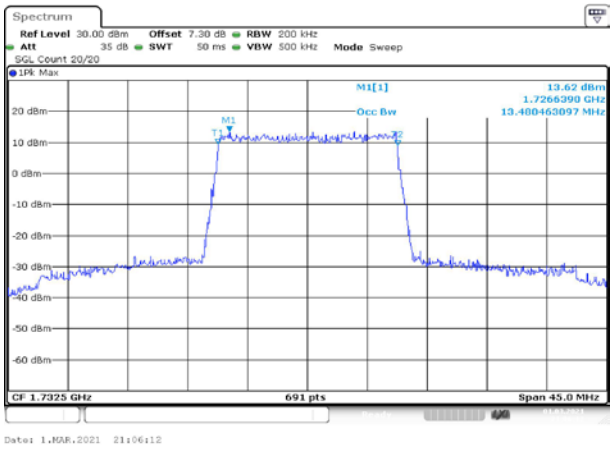

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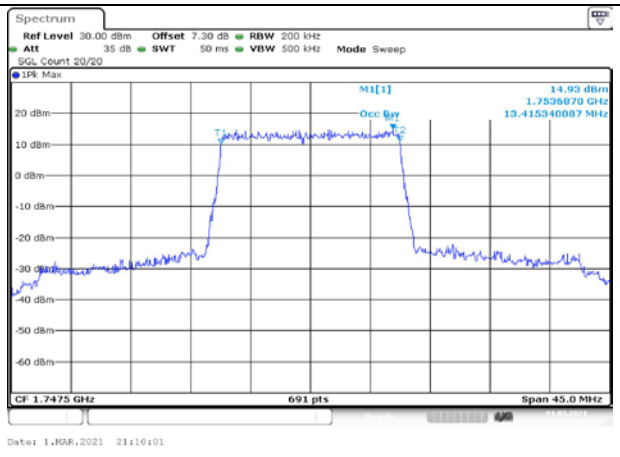

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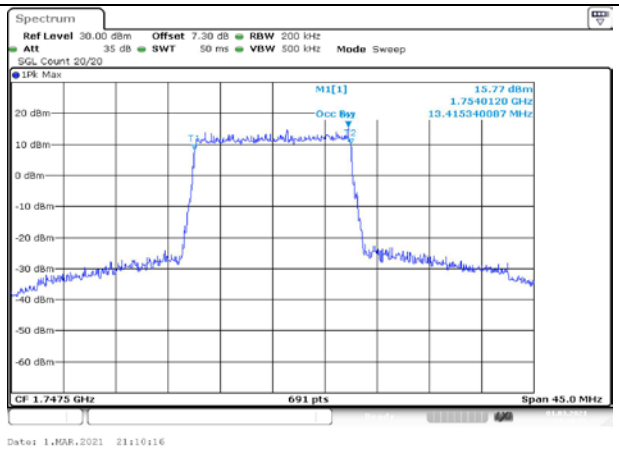

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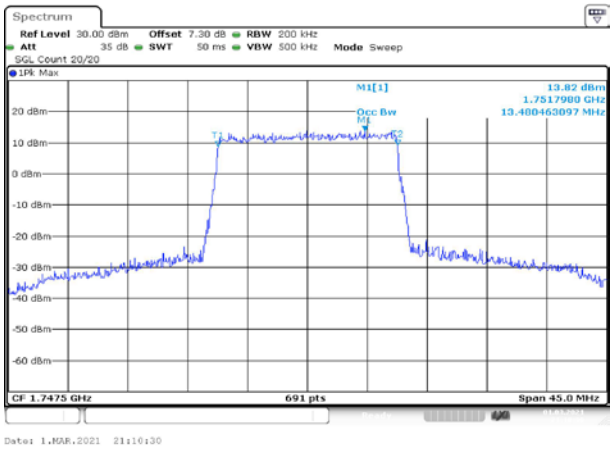

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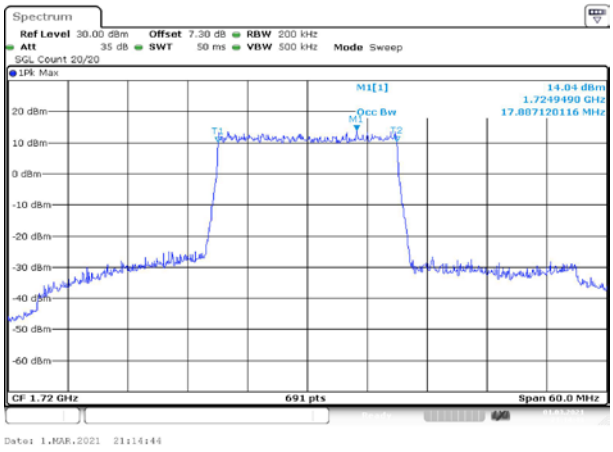

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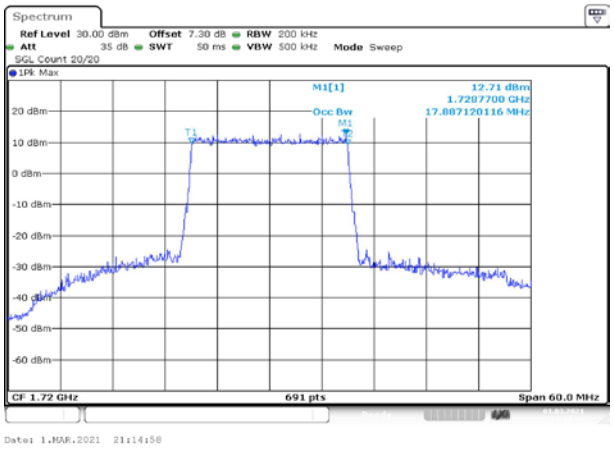

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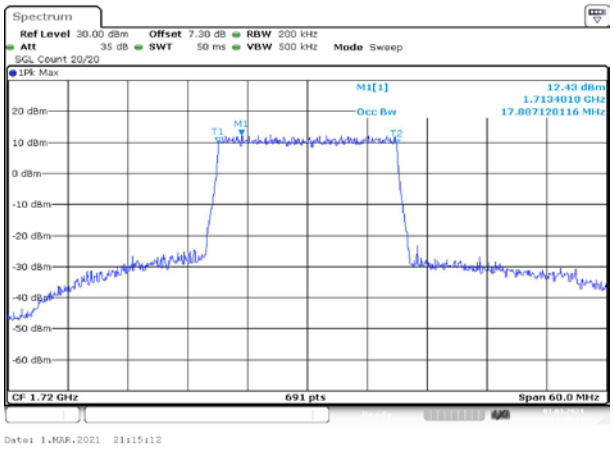

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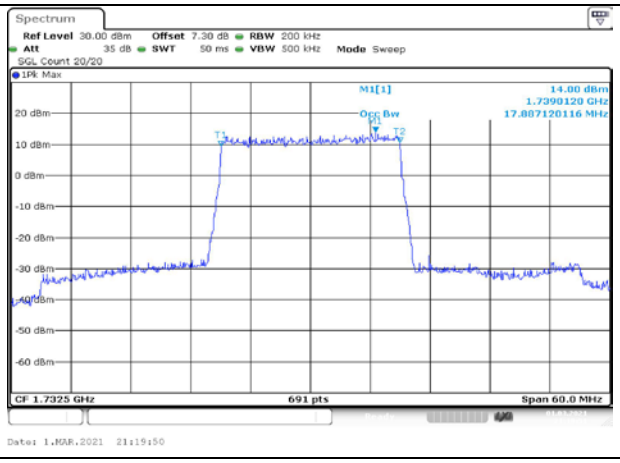


Fig.49

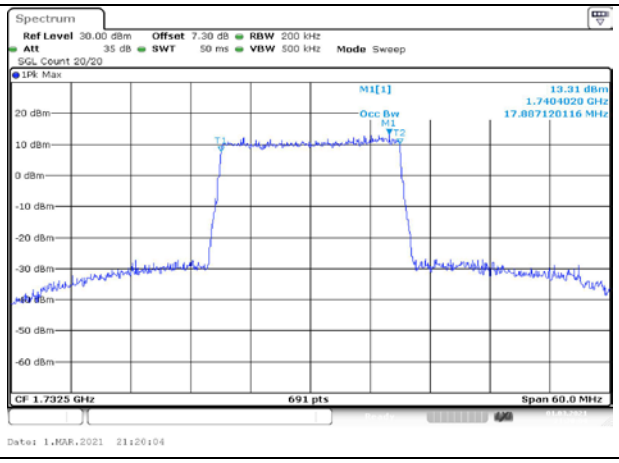
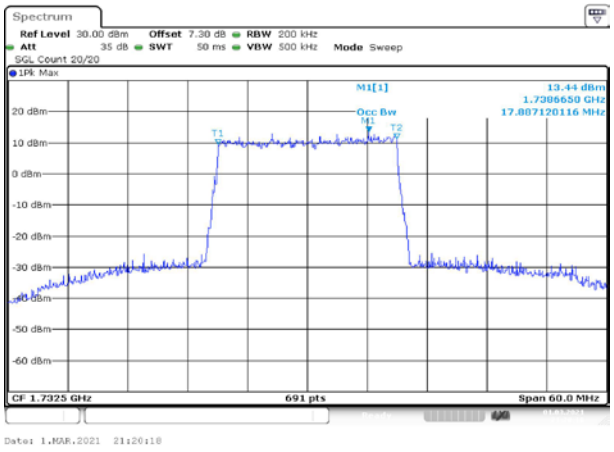


Fig.50



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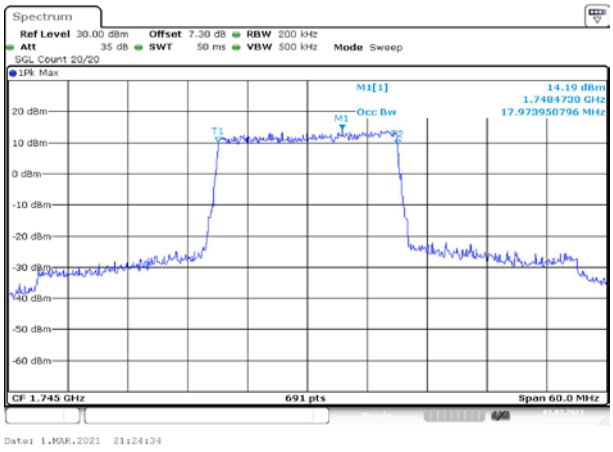

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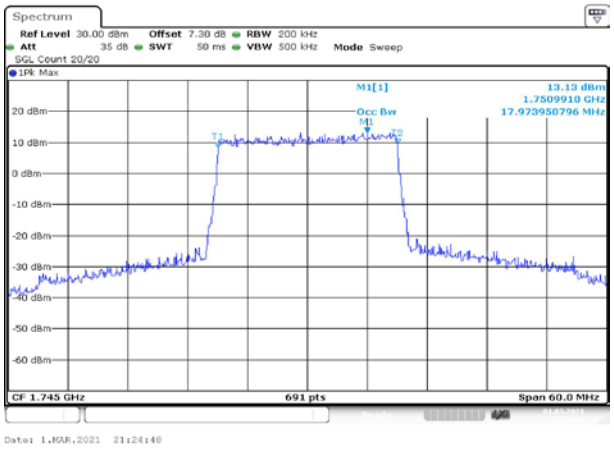

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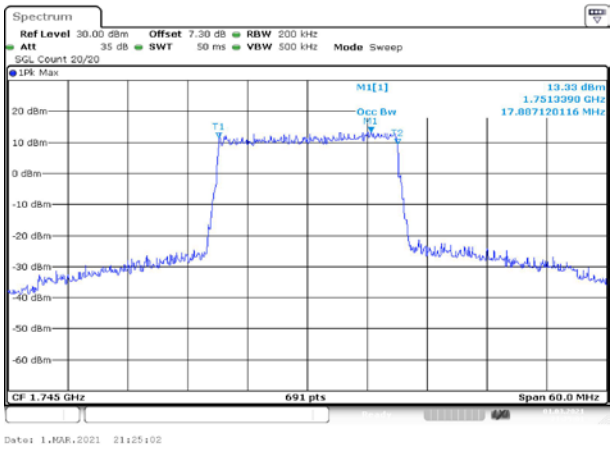


Fig.54

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	1.228	Fig.1	1.228	Fig.2	1.216	Fig.3
	1732.5	20175		6	0	1.228	Fig.4	1.222	Fig.5	1.228	Fig.6
	1754.3	20393		6	0	1.222	Fig.7	1.228	Fig.8	1.228	Fig.9
	1711.5	19965	3	15	0	2.970	Fig.10	2.970	Fig.11	2.970	Fig.12
	1732.5	20175		15	0	2.970	Fig.13	2.970	Fig.14	2.983	Fig.15
	1753.5	20385		15	0	2.996	Fig.16	2.970	Fig.17	3.009	Fig.18
	1712.5	19975	5	25	0	4.884	Fig.19	4.863	Fig.20	4.884	Fig.21
	1732.5	20175		25	0	4.884	Fig.22	4.928	Fig.23	4.906	Fig.24
	1752.5	20375		25	0	4.884	Fig.25	4.906	Fig.26	4.884	Fig.27
	1715	20000	10	50	0	9.682	Fig.28	9.638	Fig.29	9.725	Fig.30
	1732.5	20175		50	0	9.638	Fig.31	9.768	Fig.32	9.768	Fig.33
	1750	20350		50	0	9.638	Fig.34	9.812	Fig.35	9.768	Fig.36
	1717.5	20025	15	75	0	14.718	Fig.37	14.783	Fig.38	14.718	Fig.39
	1732.5	20175		75	0	14.718	Fig.40	14.783	Fig.41	14.718	Fig.42
	1747.5	20325		75	0	14.783	Fig.43	14.718	Fig.44	14.783	Fig.45
	1720	20050	20	100	0	19.276	Fig.46	19.450	Fig.47	19.363	Fig.48
	1732.5	20175		100	0	19.276	Fig.49	19.363	Fig.50	19.276	Fig.51
	1745	20300		100	0	19.450	Fig.52	19.450	Fig.53	19.363	Fig.54

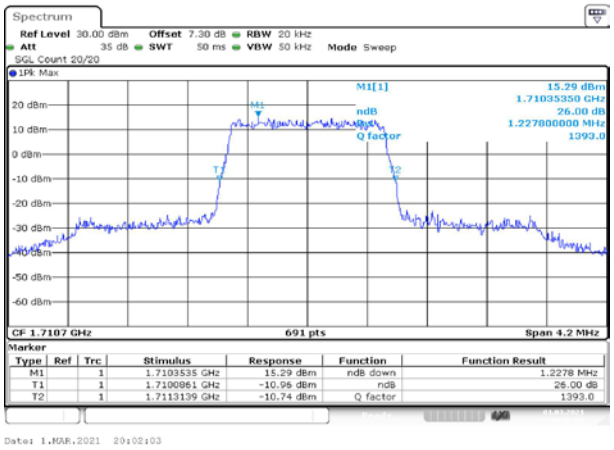


Fig.1

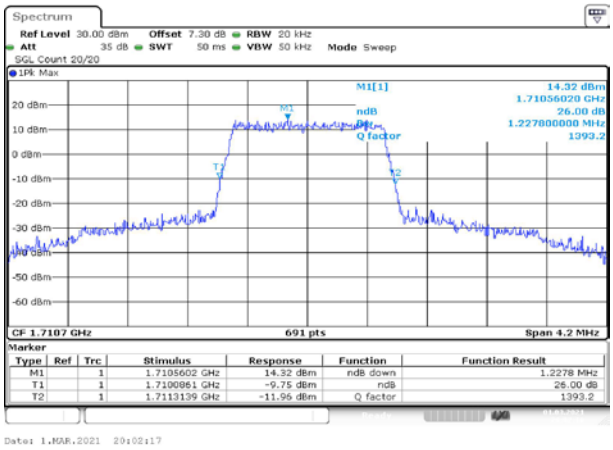
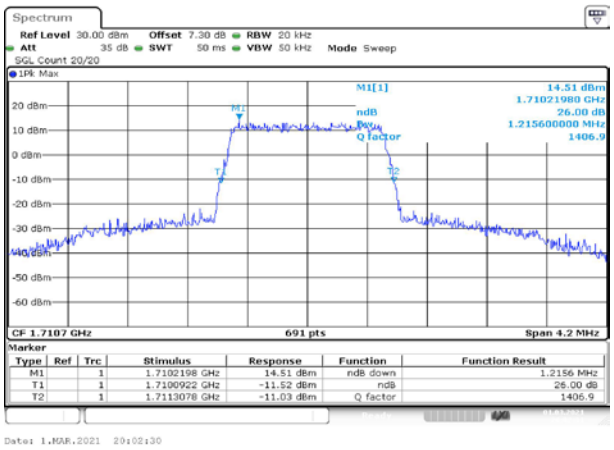


Fig.2



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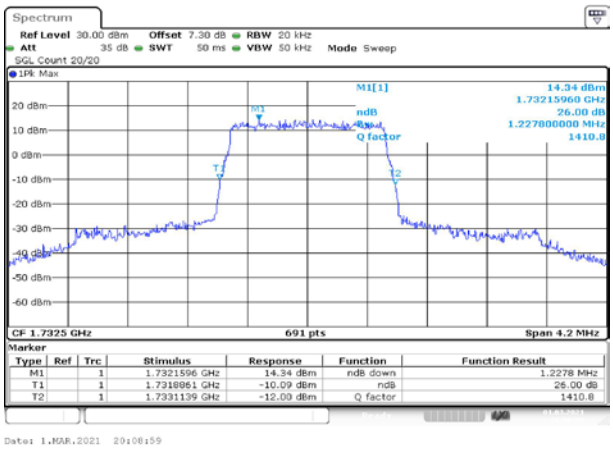
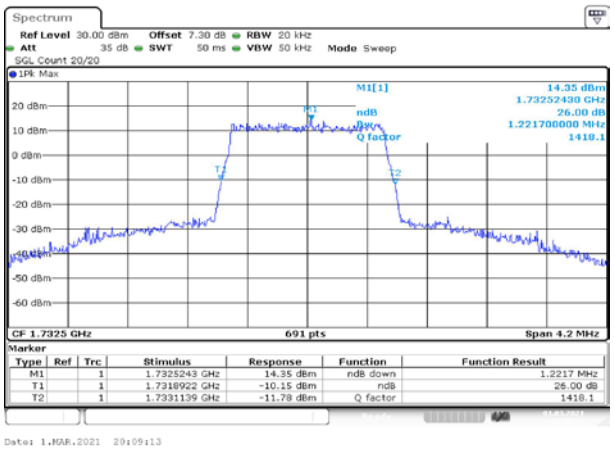


Fig.4



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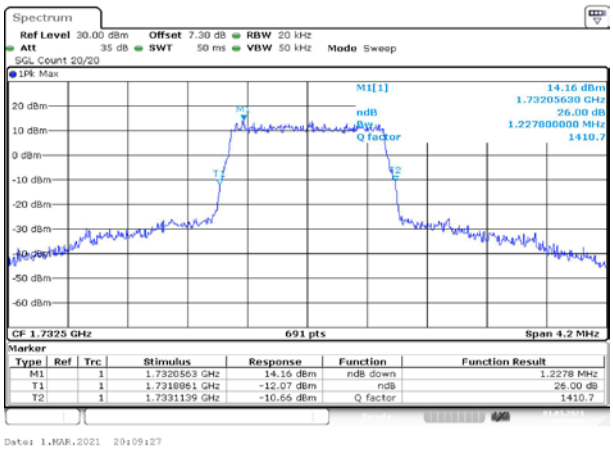


Fig.6

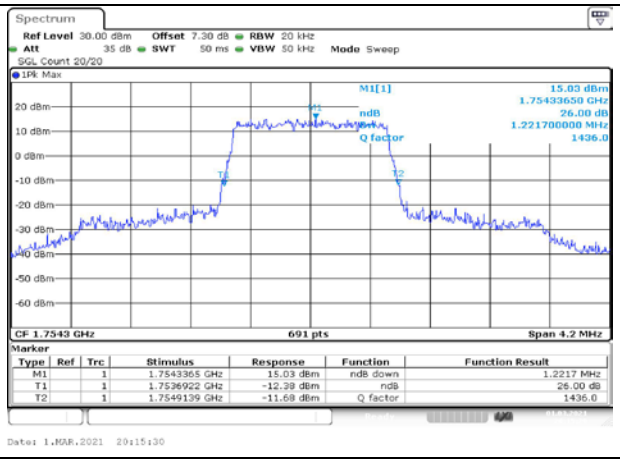
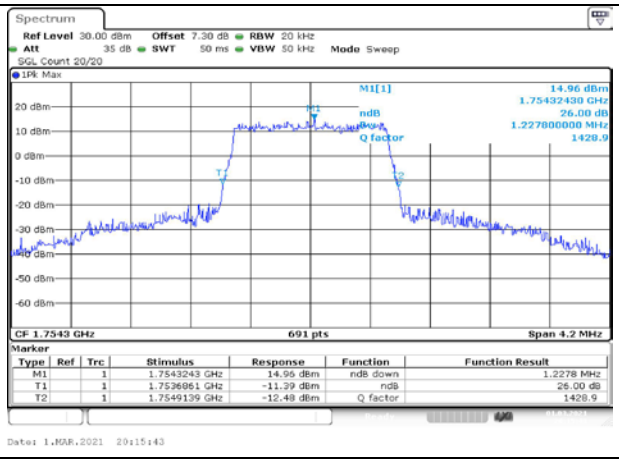


Fig.7



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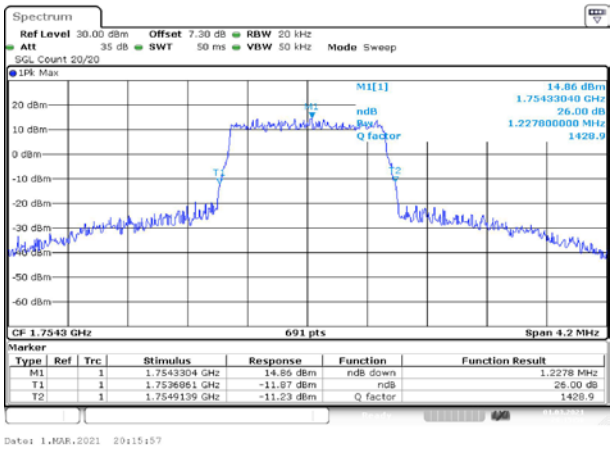
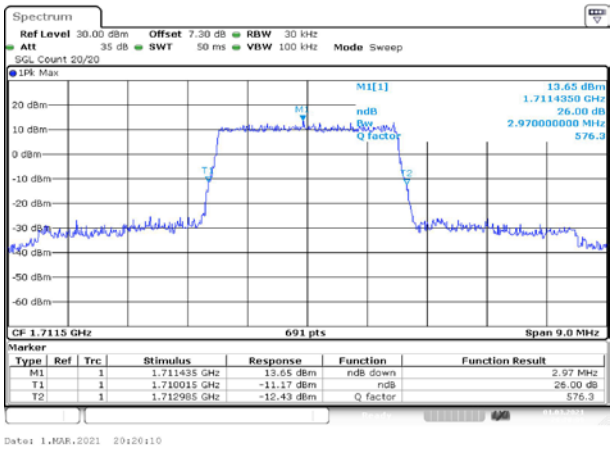


Fig.9



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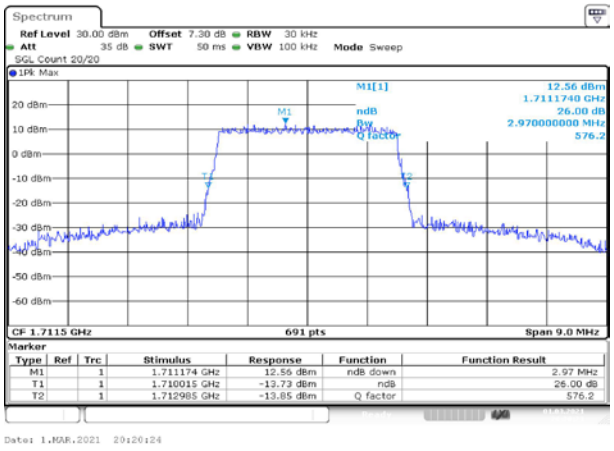


Fig.11

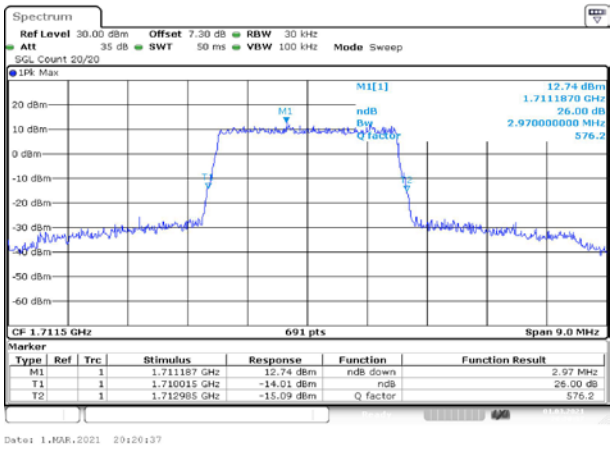


Fig.12

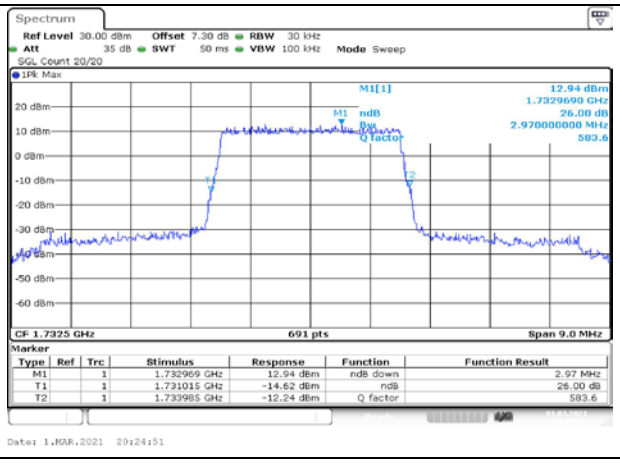


Fig.13

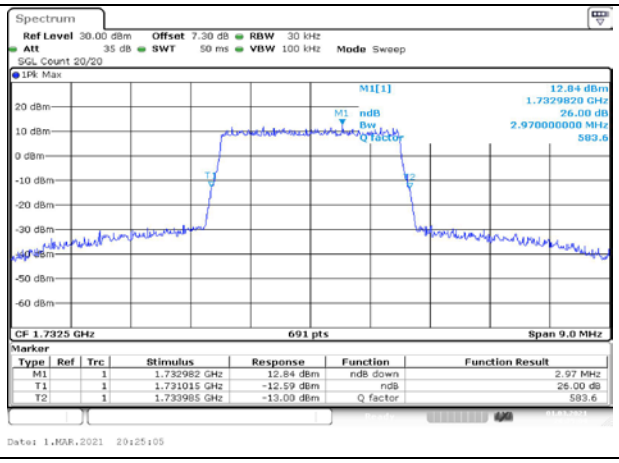
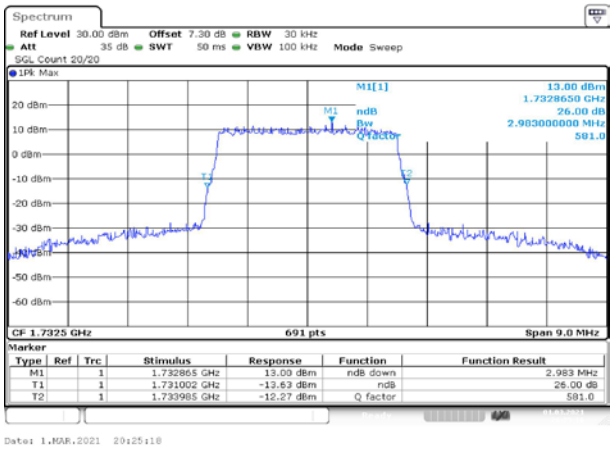


Fig.14



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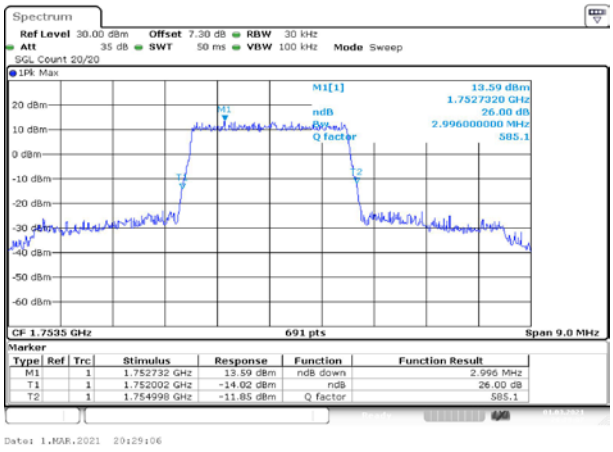

Fig.16

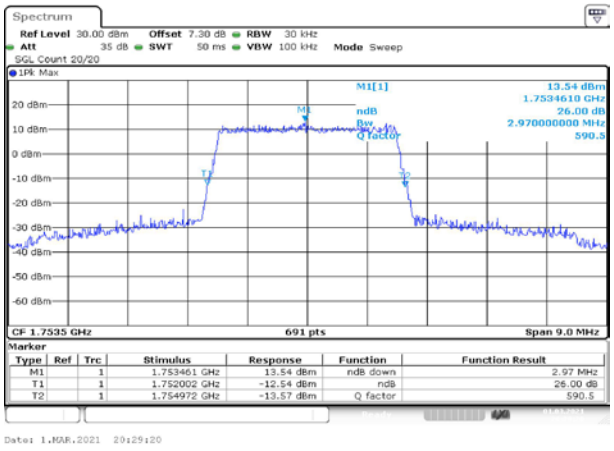

Fig.17

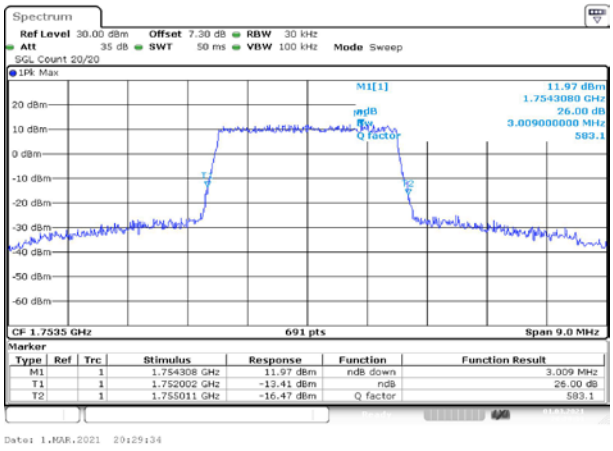

Fig.18

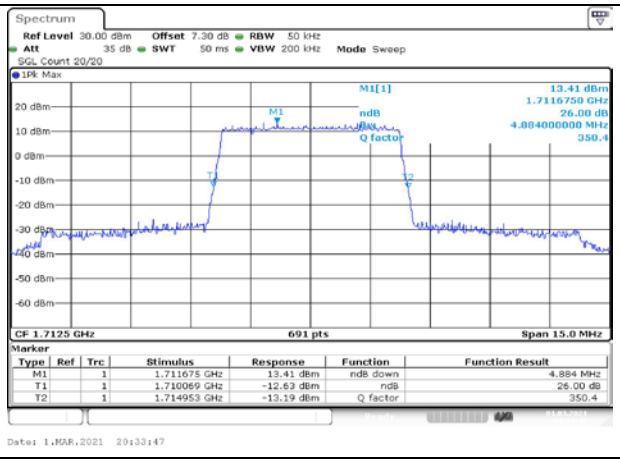

Fig.19

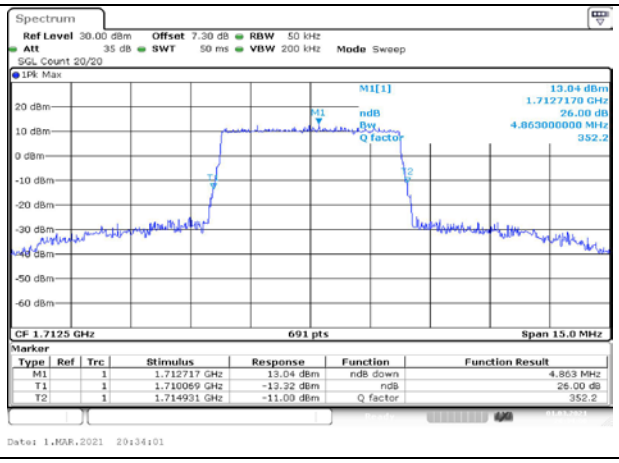

Fig.20

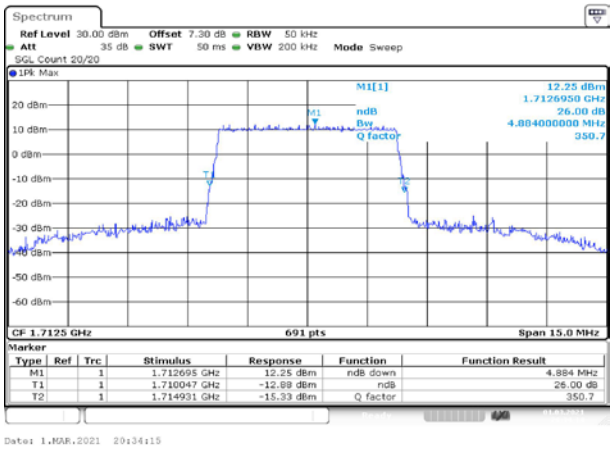

Fig.21

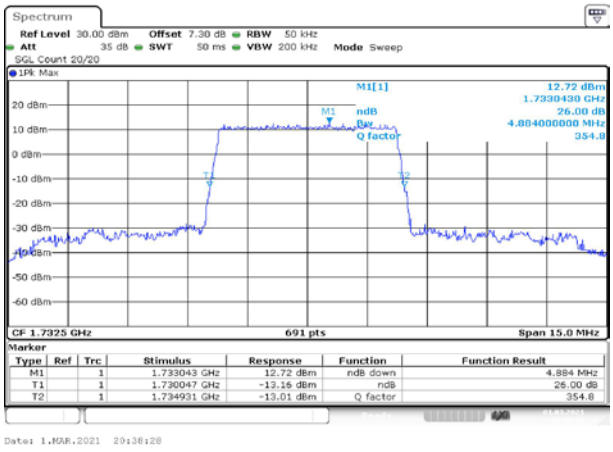

Fig.22

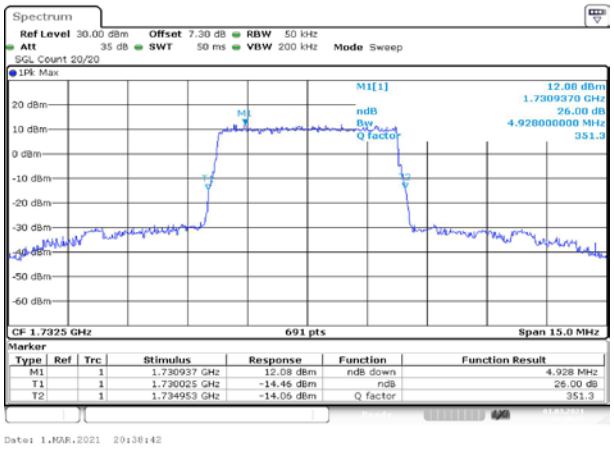

Fig.23

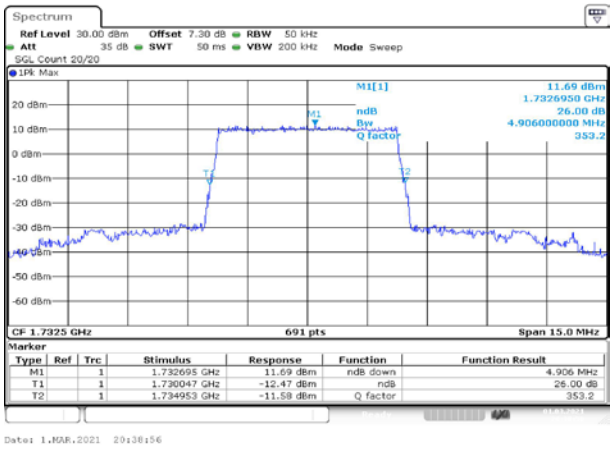

Fig.24

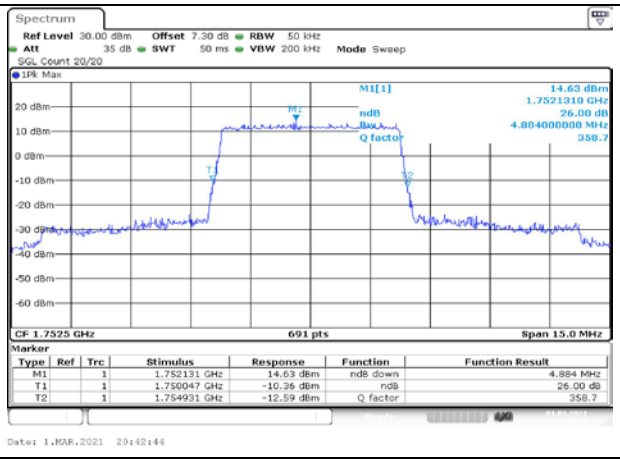

Fig.25

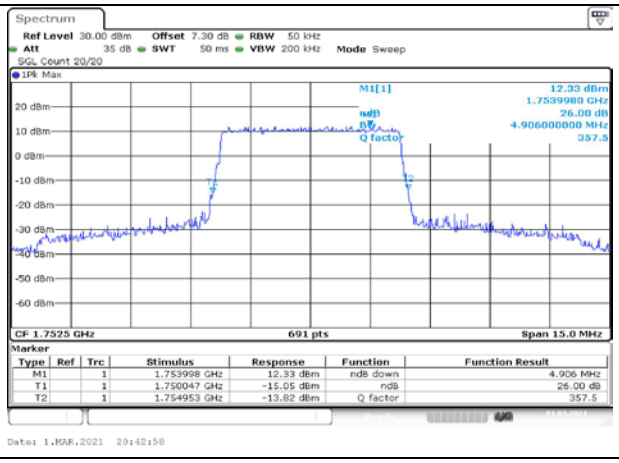

Fig.26

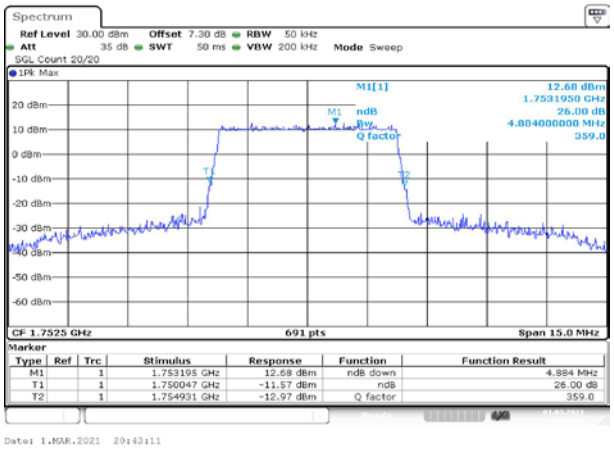

Fig.27

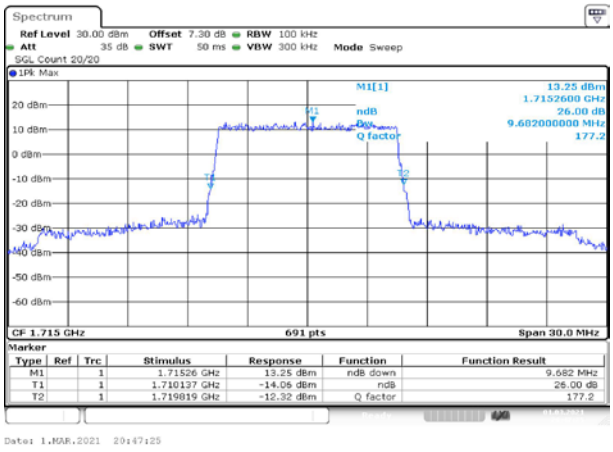

Fig.28

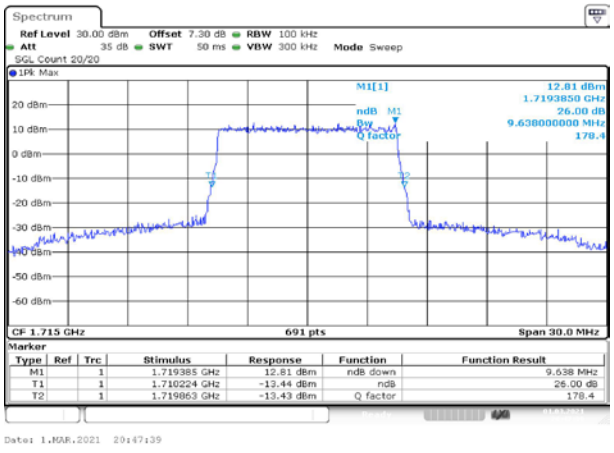

Fig.29

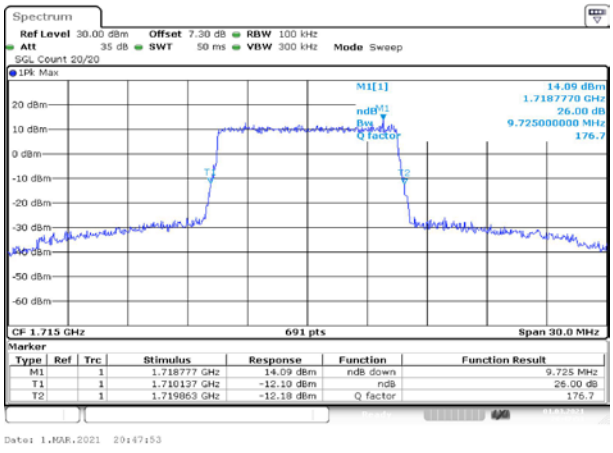

Fig.30