

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	1732.5	20175	1.4	1	0	21.06
QPSK	1732.5	20175	1.4	1	3	21.04
QPSK	1732.5	20175	1.4	1	5	20.97
QPSK	1732.5	20175	1.4	3	0	21.00
QPSK	1732.5	20175	1.4	3	1	21.06
QPSK	1732.5	20175	1.4	3	3	21.03
QPSK	1732.5	20175	1.4	6	0	20.07
QPSK	1754.3	20393	1.4	1	0	21.02
QPSK	1754.3	20393	1.4	1	3	21.16
QPSK	1754.3	20393	1.4	1	5	21.02
QPSK	1754.3	20393	1.4	3	0	21.10
QPSK	1754.3	20393	1.4	3	1	21.14
QPSK	1754.3	20393	1.4	3	3	21.08
QPSK	1754.3	20393	1.4	6	0	20.17

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1710.7	19957	1.4	1	0	20.75
16QAM	1710.7	19957	1.4	1	3	20.93
16QAM	1710.7	19957	1.4	1	5	20.73
16QAM	1710.7	19957	1.4	3	0	20.70
16QAM	1710.7	19957	1.4	3	1	20.81
16QAM	1710.7	19957	1.4	3	3	20.71
16QAM	1710.7	19957	1.4	6	0	19.62
16QAM	1732.5	20175	1.4	1	0	20.25
16QAM	1732.5	20175	1.4	1	3	20.35
16QAM	1732.5	20175	1.4	1	5	20.32
16QAM	1732.5	20175	1.4	3	0	19.91
16QAM	1732.5	20175	1.4	3	1	19.95
16QAM	1732.5	20175	1.4	3	3	19.96
16QAM	1732.5	20175	1.4	6	0	19.16
16QAM	1754.3	20393	1.4	1	0	20.11
16QAM	1754.3	20393	1.4	1	3	20.28
16QAM	1754.3	20393	1.4	1	5	20.11
16QAM	1754.3	20393	1.4	3	0	20.15
16QAM	1754.3	20393	1.4	3	1	20.24
16QAM	1754.3	20393	1.4	3	3	20.16
16QAM	1754.3	20393	1.4	6	0	19.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1711.5	19965	3	1	0	22.47
QPSK	1711.5	19965	3	1	8	21.70
QPSK	1711.5	19965	3	1	14	21.63
QPSK	1711.5	19965	3	8	0	20.71
QPSK	1711.5	19965	3	8	4	20.75
QPSK	1711.5	19965	3	8	7	20.65
QPSK	1711.5	19965	3	15	0	20.68
QPSK	1732.5	20175	3	1	0	21.00
QPSK	1732.5	20175	3	1	8	21.01
QPSK	1732.5	20175	3	1	14	21.03
QPSK	1732.5	20175	3	8	0	20.11
QPSK	1732.5	20175	3	8	4	20.09
QPSK	1732.5	20175	3	8	7	20.12
QPSK	1732.5	20175	3	15	0	20.10
QPSK	1753.5	20385	3	1	0	21.01
QPSK	1753.5	20385	3	1	8	21.06
QPSK	1753.5	20385	3	1	14	21.04
QPSK	1753.5	20385	3	8	0	20.12
QPSK	1753.5	20385	3	8	4	20.19
QPSK	1753.5	20385	3	8	7	20.18
QPSK	1753.5	20385	3	15	0	20.18

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1711.5	19965	3	1	0	20.99
16QAM	1711.5	19965	3	1	8	20.79
16QAM	1711.5	19965	3	1	14	20.80
16QAM	1711.5	19965	3	8	0	19.76
16QAM	1711.5	19965	3	8	4	19.79
16QAM	1711.5	19965	3	8	7	19.67
16QAM	1711.5	19965	3	15	0	19.66
16QAM	1732.5	20175	3	1	0	20.62
16QAM	1732.5	20175	3	1	8	20.61
16QAM	1732.5	20175	3	1	14	20.58
16QAM	1732.5	20175	3	8	0	19.12
16QAM	1732.5	20175	3	8	4	19.15
16QAM	1732.5	20175	3	8	7	19.14
16QAM	1732.5	20175	3	15	0	19.17
16QAM	1753.5	20385	3	1	0	20.27
16QAM	1753.5	20385	3	1	8	20.42
16QAM	1753.5	20385	3	1	14	20.30
16QAM	1753.5	20385	3	8	0	19.13
16QAM	1753.5	20385	3	8	4	19.16
16QAM	1753.5	20385	3	8	7	19.16
16QAM	1753.5	20385	3	15	0	19.14

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1712.5	19975	5	1	0	22.72
QPSK	1712.5	19975	5	1	12	21.77
QPSK	1712.5	19975	5	1	24	21.57
QPSK	1712.5	19975	5	12	0	20.72
QPSK	1712.5	19975	5	12	7	20.73
QPSK	1712.5	19975	5	12	13	20.71
QPSK	1712.5	19975	5	25	0	20.70
QPSK	1732.5	20175	5	1	0	21.15
QPSK	1732.5	20175	5	1	12	21.04
QPSK	1732.5	20175	5	1	24	21.06
QPSK	1732.5	20175	5	12	0	20.19
QPSK	1732.5	20175	5	12	7	20.11
QPSK	1732.5	20175	5	12	13	20.10
QPSK	1732.5	20175	5	25	0	20.09
QPSK	1752.5	20375	5	1	0	21.16
QPSK	1752.5	20375	5	1	12	21.15
QPSK	1752.5	20375	5	1	24	21.22
QPSK	1752.5	20375	5	12	0	20.17
QPSK	1752.5	20375	5	12	7	20.21
QPSK	1752.5	20375	5	12	13	20.19
QPSK	1752.5	20375	5	25	0	20.16

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1712.5	19975	5	1	0	20.83
16QAM	1712.5	19975	5	1	12	20.83
16QAM	1712.5	19975	5	1	24	20.84
16QAM	1712.5	19975	5	12	0	19.80
16QAM	1712.5	19975	5	12	7	19.72
16QAM	1712.5	19975	5	12	13	19.78
16QAM	1712.5	19975	5	25	0	19.75
16QAM	1732.5	20175	5	1	0	20.24
16QAM	1732.5	20175	5	1	12	20.24
16QAM	1732.5	20175	5	1	24	20.16
16QAM	1732.5	20175	5	12	0	19.11
16QAM	1732.5	20175	5	12	7	19.15
16QAM	1732.5	20175	5	12	13	19.03
16QAM	1732.5	20175	5	25	0	19.14
16QAM	1752.5	20375	5	1	0	20.44
16QAM	1752.5	20375	5	1	12	20.55
16QAM	1752.5	20375	5	1	24	20.57
16QAM	1752.5	20375	5	12	0	19.06
16QAM	1752.5	20375	5	12	7	19.17
16QAM	1752.5	20375	5	12	13	19.15
16QAM	1752.5	20375	5	25	0	19.14

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1715	20000	10	1	0	21.73
QPSK	1715	20000	10	1	25	21.59
QPSK	1715	20000	10	1	49	21.44
QPSK	1715	20000	10	25	0	20.67
QPSK	1715	20000	10	25	12	20.68
QPSK	1715	20000	10	25	25	20.55
QPSK	1715	20000	10	50	0	20.64
QPSK	1732.5	20175	10	1	0	21.15
QPSK	1732.5	20175	10	1	25	21.08
QPSK	1732.5	20175	10	1	49	21.05
QPSK	1732.5	20175	10	25	0	20.15
QPSK	1732.5	20175	10	25	12	20.14
QPSK	1732.5	20175	10	25	25	20.04
QPSK	1732.5	20175	10	50	0	20.10
QPSK	1750	20350	10	1	0	20.99
QPSK	1750	20350	10	1	25	21.02
QPSK	1750	20350	10	1	49	21.18
QPSK	1750	20350	10	25	0	20.06
QPSK	1750	20350	10	25	12	20.13
QPSK	1750	20350	10	25	25	20.13
QPSK	1750	20350	10	50	0	20.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1715	20000	10	1	0	20.92
16QAM	1715	20000	10	1	25	20.83
16QAM	1715	20000	10	1	49	20.68
16QAM	1715	20000	10	25	0	19.70
16QAM	1715	20000	10	25	12	19.67
16QAM	1715	20000	10	25	25	19.63
16QAM	1715	20000	10	50	0	19.67
16QAM	1732.5	20175	10	1	0	20.75
16QAM	1732.5	20175	10	1	25	20.65
16QAM	1732.5	20175	10	1	49	20.65
16QAM	1732.5	20175	10	25	0	19.22
16QAM	1732.5	20175	10	25	12	19.15
16QAM	1732.5	20175	10	25	25	19.08
16QAM	1732.5	20175	10	50	0	19.09
16QAM	1750	20350	10	1	0	20.22
16QAM	1750	20350	10	1	25	20.21
16QAM	1750	20350	10	1	49	20.29
16QAM	1750	20350	10	25	0	19.10
16QAM	1750	20350	10	25	12	19.18
16QAM	1750	20350	10	25	25	19.15
16QAM	1750	20350	10	50	0	19.13

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1717.5	20025	15	1	0	21.69
QPSK	1717.5	20025	15	1	37	21.51
QPSK	1717.5	20025	15	1	74	21.22
QPSK	1717.5	20025	15	36	0	20.63
QPSK	1717.5	20025	15	36	29	20.53
QPSK	1717.5	20025	15	36	30	20.52
QPSK	1717.5	20025	15	75	0	20.55
QPSK	1732.5	20175	15	1	0	21.21
QPSK	1732.5	20175	15	1	37	20.95
QPSK	1732.5	20175	15	1	74	20.91
QPSK	1732.5	20175	15	36	0	20.21
QPSK	1732.5	20175	15	36	29	20.05
QPSK	1732.5	20175	15	36	30	20.03
QPSK	1732.5	20175	15	75	0	20.08
QPSK	1747.5	20325	15	1	0	20.96
QPSK	1747.5	20325	15	1	37	20.97
QPSK	1747.5	20325	15	1	74	21.02
QPSK	1747.5	20325	15	36	0	19.95
QPSK	1747.5	20325	15	36	29	20.08
QPSK	1747.5	20325	15	36	30	20.12
QPSK	1747.5	20325	15	75	0	19.93

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	1717.5	20025	15	1	0	21.27
16QAM	1717.5	20025	15	1	37	21.12
16QAM	1717.5	20025	15	1	74	20.85
16QAM	1717.5	20025	15	36	0	19.67
16QAM	1717.5	20025	15	36	29	19.52
16QAM	1717.5	20025	15	36	30	19.50
16QAM	1717.5	20025	15	75	0	19.55
16QAM	1732.5	20175	15	1	0	20.46
16QAM	1732.5	20175	15	1	37	20.27
16QAM	1732.5	20175	15	1	74	20.12
16QAM	1732.5	20175	15	36	0	19.15
16QAM	1732.5	20175	15	36	29	19.09
16QAM	1732.5	20175	15	36	30	19.08
16QAM	1732.5	20175	15	75	0	19.18
16QAM	1747.5	20325	15	1	0	20.37
16QAM	1747.5	20325	15	1	37	20.33
16QAM	1747.5	20325	15	1	74	20.49
16QAM	1747.5	20325	15	36	0	18.99
16QAM	1747.5	20325	15	36	29	19.11
16QAM	1747.5	20325	15	36	30	19.13
16QAM	1747.5	20325	15	75	0	18.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1720	20050	20	1	0	21.63
QPSK	1720	20050	20	1	49	21.46
QPSK	1720	20050	20	1	99	21.13
QPSK	1720	20050	20	50	0	20.59
QPSK	1720	20050	20	50	24	20.53
QPSK	1720	20050	20	50	50	20.34
QPSK	1720	20050	20	100	0	20.43
QPSK	1732.5	20175	20	1	0	21.34
QPSK	1732.5	20175	20	1	49	21.03
QPSK	1732.5	20175	20	1	99	20.91
QPSK	1732.5	20175	20	50	0	20.20
QPSK	1732.5	20175	20	50	24	20.15
QPSK	1732.5	20175	20	50	50	19.98
QPSK	1732.5	20175	20	100	0	20.10
QPSK	1745	20300	20	1	0	20.89
QPSK	1745	20300	20	1	49	20.97
QPSK	1745	20300	20	1	99	21.09
QPSK	1745	20300	20	50	0	19.96
QPSK	1745	20300	20	50	24	19.99
QPSK	1745	20300	20	50	50	20.11
QPSK	1745	20300	20	100	0	20.00

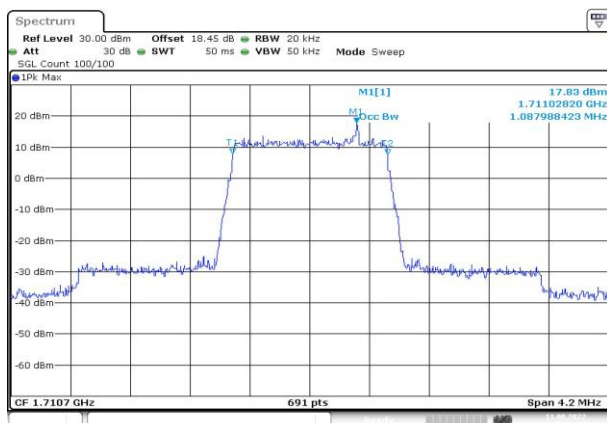
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16QAM	1720	20050	20	1	0	20.99
16QAM	1720	20050	20	1	49	20.82
16QAM	1720	20050	20	1	99	20.57
16QAM	1720	20050	20	50	0	19.58
16QAM	1720	20050	20	50	24	19.54
16QAM	1720	20050	20	50	50	19.32
16QAM	1720	20050	20	100	0	19.46
16QAM	1732.5	20175	20	1	0	20.60
16QAM	1732.5	20175	20	1	49	20.30
16QAM	1732.5	20175	20	1	99	20.25
16QAM	1732.5	20175	20	50	0	19.19
16QAM	1732.5	20175	20	50	24	19.12
16QAM	1732.5	20175	20	50	50	18.98
16QAM	1732.5	20175	20	100	0	19.15
16QAM	1745	20300	20	1	0	20.21
16QAM	1745	20300	20	1	49	20.33
16QAM	1745	20300	20	1	99	20.42
16QAM	1745	20300	20	50	0	18.94
16QAM	1745	20300	20	50	24	18.95
16QAM	1745	20300	20	50	50	19.08
16QAM	1745	20300	20	100	0	18.97

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
4	QPSK	1710.7	19957	1.4	6	0	1.088	Fig.1
4	QPSK	1732.5	20175	1.4	6	0	1.088	Fig.2
4	QPSK	1754.3	20393	1.4	6	0	1.082	Fig.3
4	QPSK	1711.5	19965	3	15	0	2.683	Fig.4
4	QPSK	1732.5	20175	3	15	0	2.683	Fig.5
4	QPSK	1753.5	20385	3	15	0	2.683	Fig.6
4	QPSK	1712.5	19975	5	25	0	4.472	Fig.7
4	QPSK	1732.5	20175	5	25	0	4.493	Fig.8
4	QPSK	1752.5	20375	5	25	0	4.472	Fig.9
4	QPSK	1715	20000	10	50	0	8.944	Fig.10
4	QPSK	1732.5	20175	10	50	0	8.944	Fig.11
4	QPSK	1750	20350	10	50	0	8.944	Fig.12
4	QPSK	1717.5	20025	15	75	0	13.415	Fig.13
4	QPSK	1732.5	20175	15	75	0	13.415	Fig.14
4	QPSK	1747.5	20325	15	75	0	13.415	Fig.15
4	QPSK	1720	20050	20	100	0	17.887	Fig.16
4	QPSK	1732.5	20175	20	100	0	17.887	Fig.17
4	QPSK	1745	20300	20	100	0	17.887	Fig.18

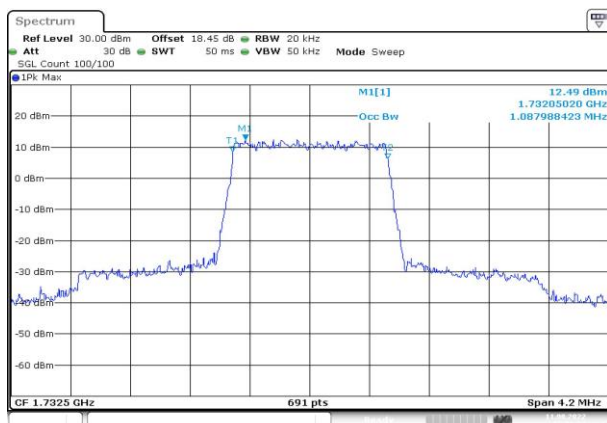
Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
4	16QAM	1710.7	19957	1.4	6	0	1.082	Fig.19
4	16QAM	1732.5	20175	1.4	6	0	1.082	Fig.20
4	16QAM	1754.3	20393	1.4	6	0	1.082	Fig.21
4	16QAM	1711.5	19965	3	15	0	2.696	Fig.22
4	16QAM	1732.5	20175	3	15	0	2.683	Fig.23
4	16QAM	1753.5	20385	3	15	0	2.683	Fig.24
4	16QAM	1712.5	19975	5	25	0	4.493	Fig.25
4	16QAM	1732.5	20175	5	25	0	4.472	Fig.26
4	16QAM	1752.5	20375	5	25	0	4.472	Fig.27
4	16QAM	1715	20000	10	50	0	8.987	Fig.28
4	16QAM	1732.5	20175	10	50	0	8.944	Fig.29
4	16QAM	1750	20350	10	50	0	8.944	Fig.30
4	16QAM	1717.5	20025	15	75	0	13.415	Fig.31
4	16QAM	1732.5	20175	15	75	0	13.415	Fig.32
4	16QAM	1747.5	20325	15	75	0	13.415	Fig.33
4	16QAM	1720	20050	20	100	0	17.887	Fig.34
4	16QAM	1732.5	20175	20	100	0	17.887	Fig.35
4	16QAM	1745	20300	20	100	0	17.887	Fig.36

Test Mode: QPSK



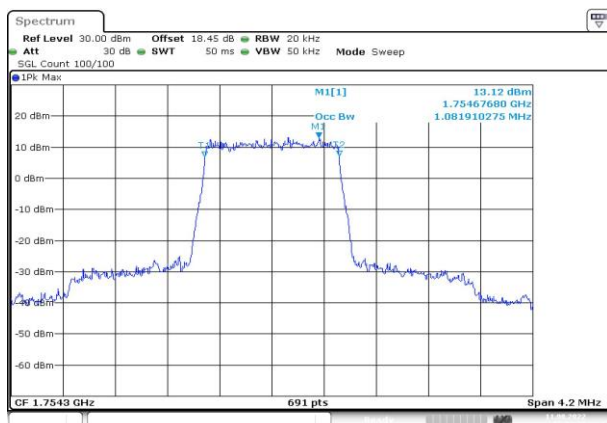
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Fig.1



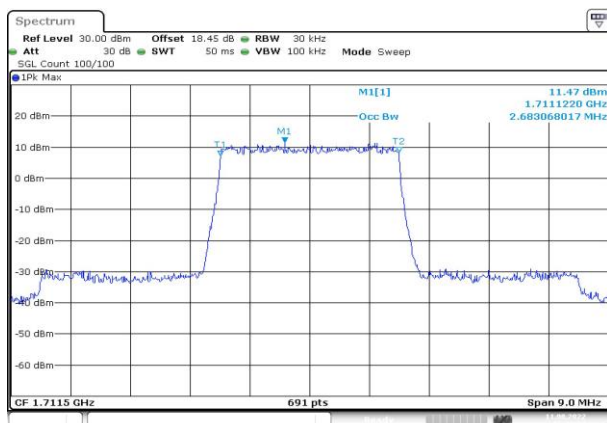
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Fig.2



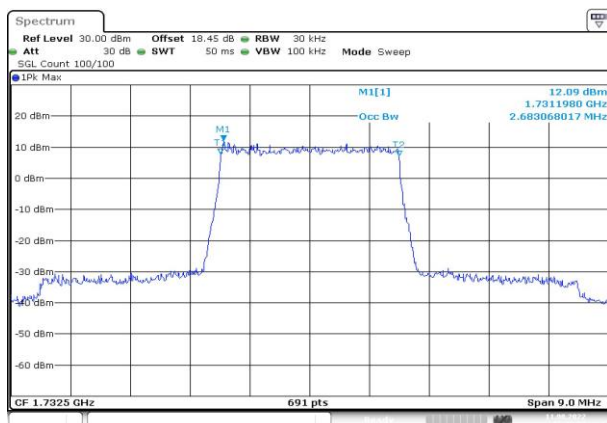
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Fig.3



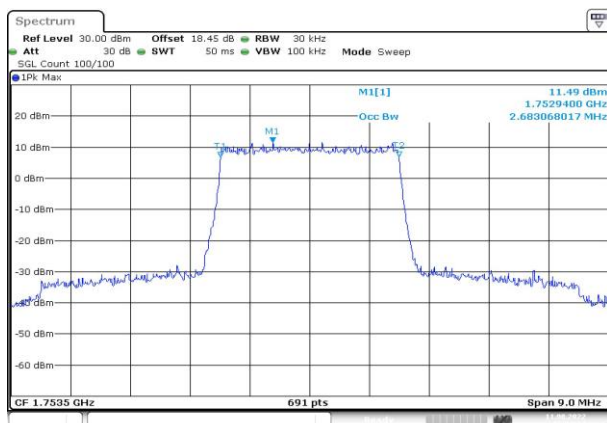
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Fig.4



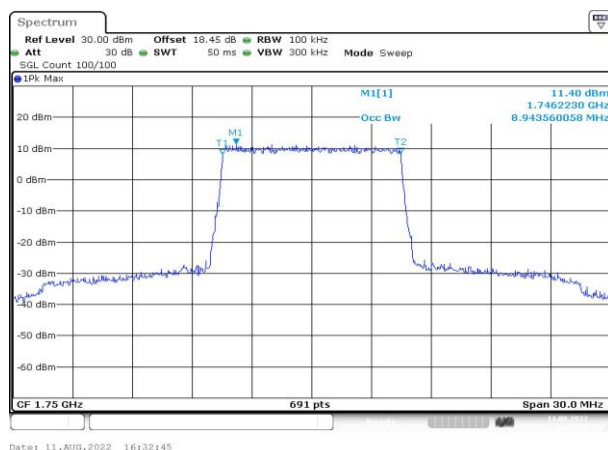
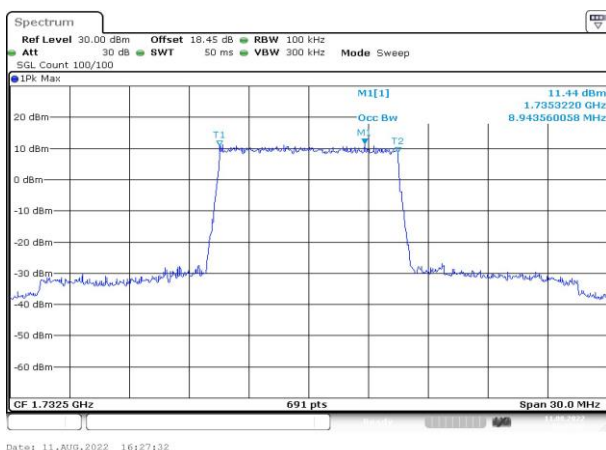
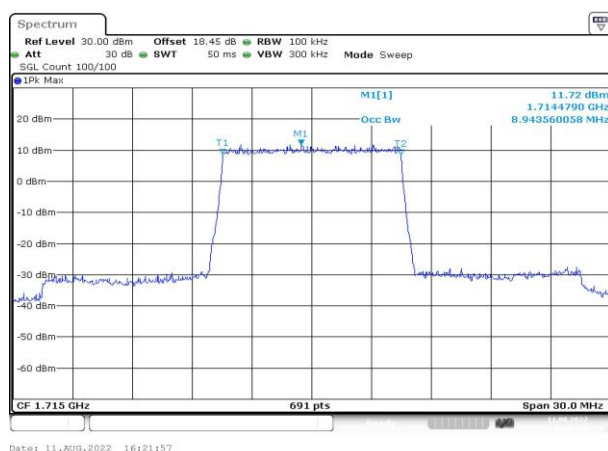
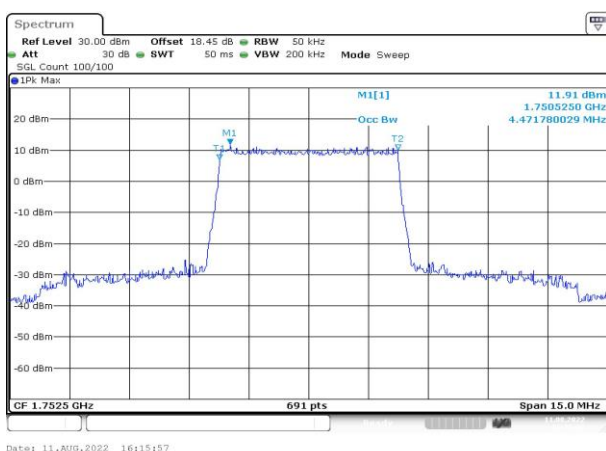
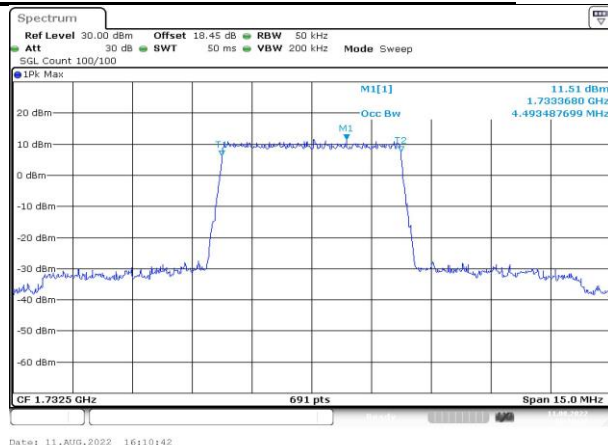
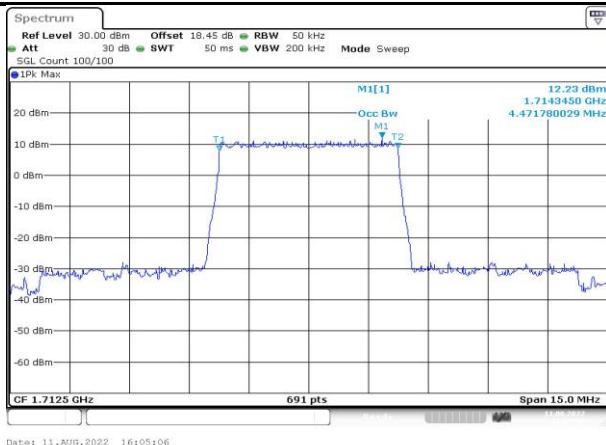
Date: 11.AUG.2022 15:49:08

Fig.5



Date: 11.AUG.2022 15:54:15

Fig.6



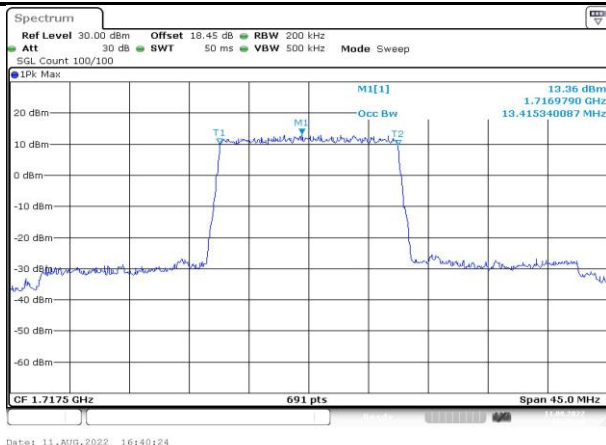


Fig.13

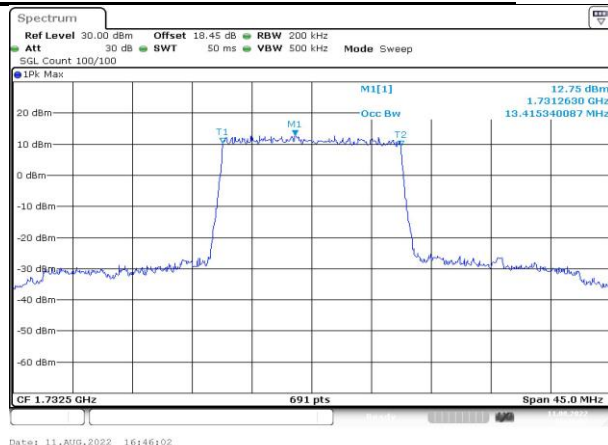


Fig.14

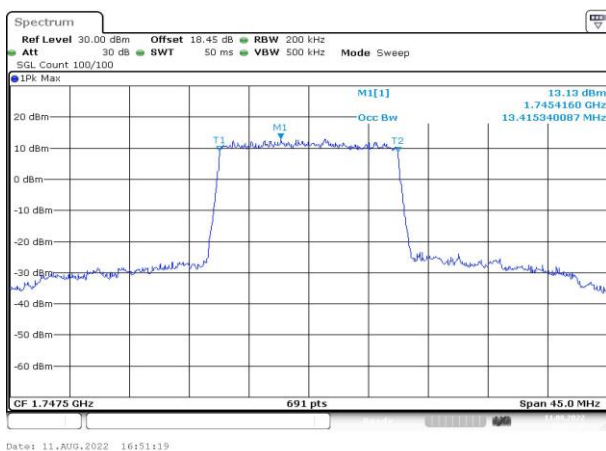


Fig.15

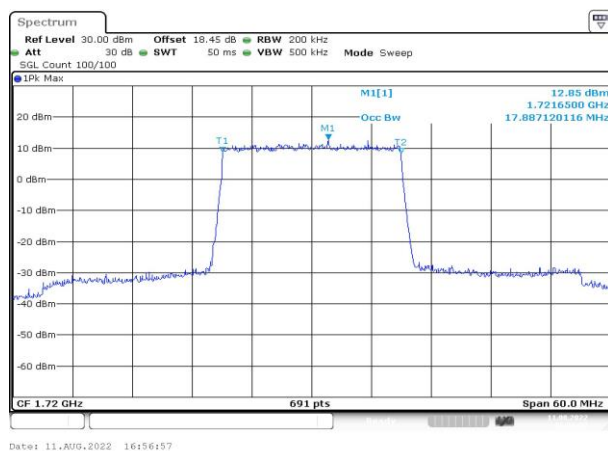


Fig.16

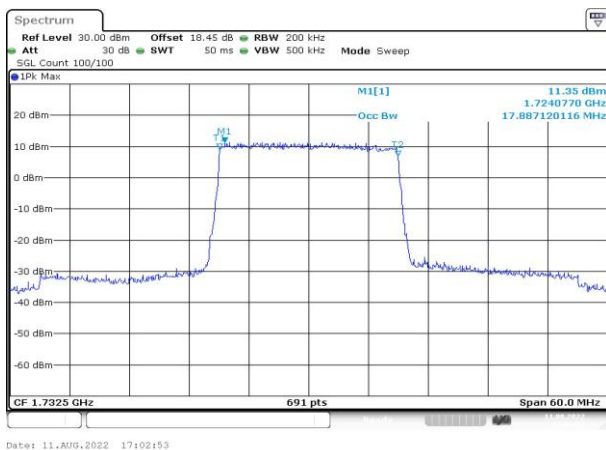


Fig.17

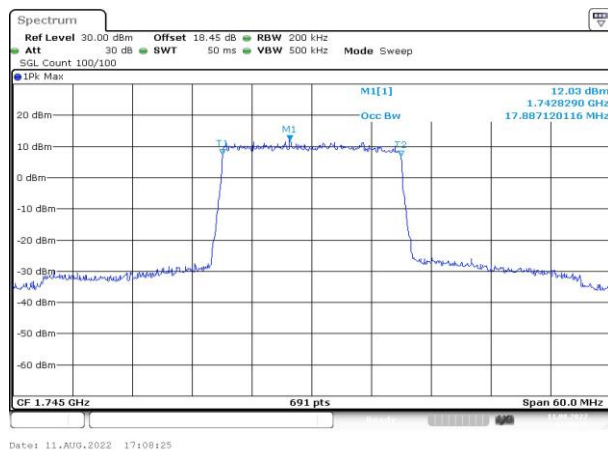


Fig.18

Test Mode: 16QAM

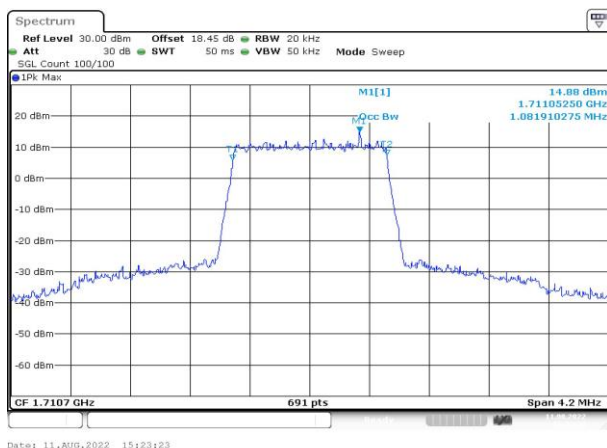


Fig.19

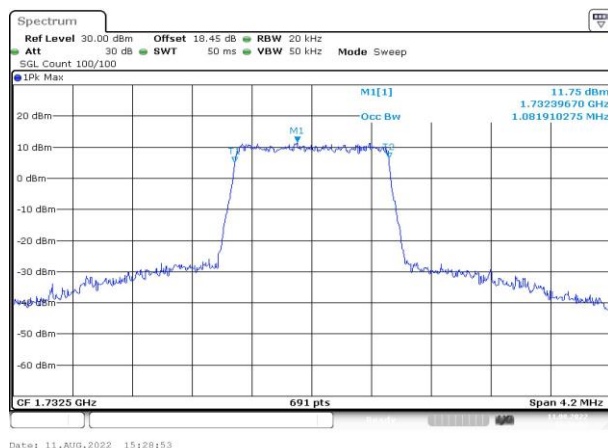


Fig.20

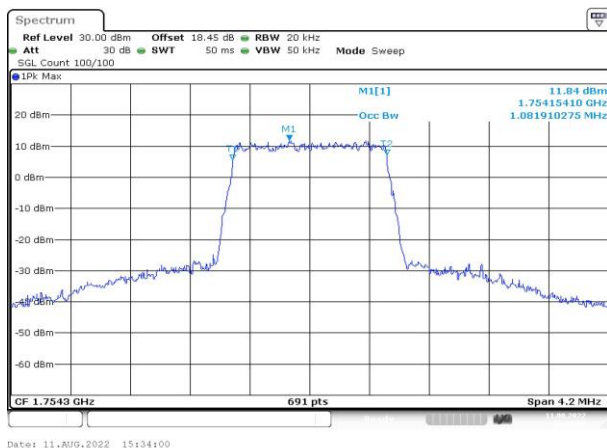


Fig.21

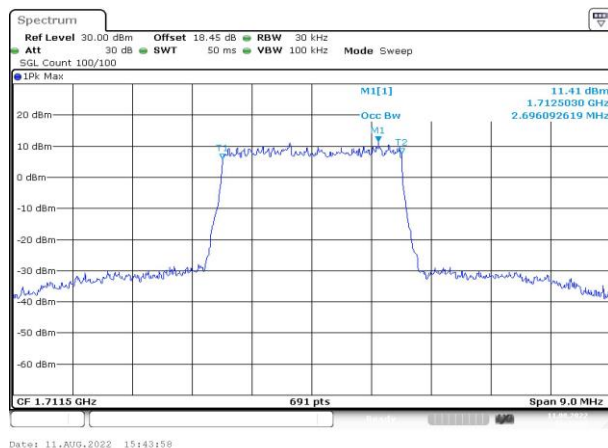


Fig.22

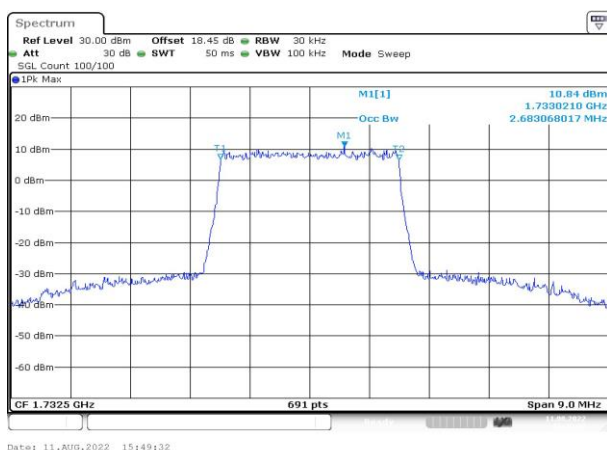


Fig.23

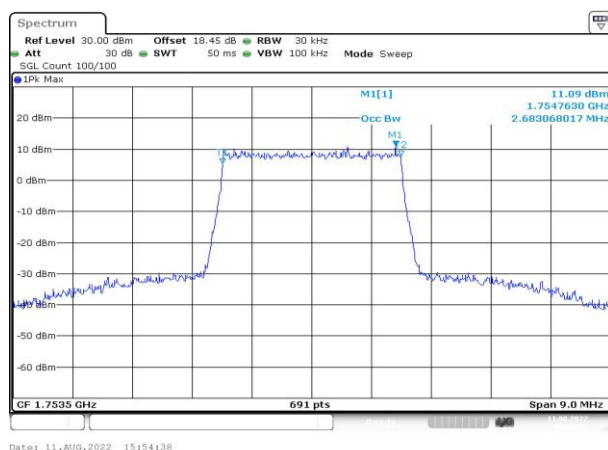
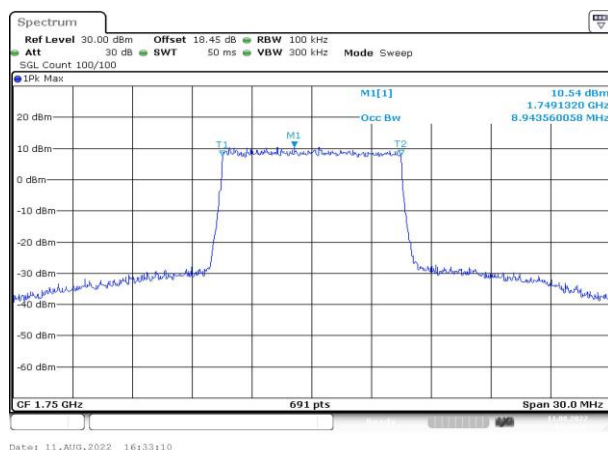
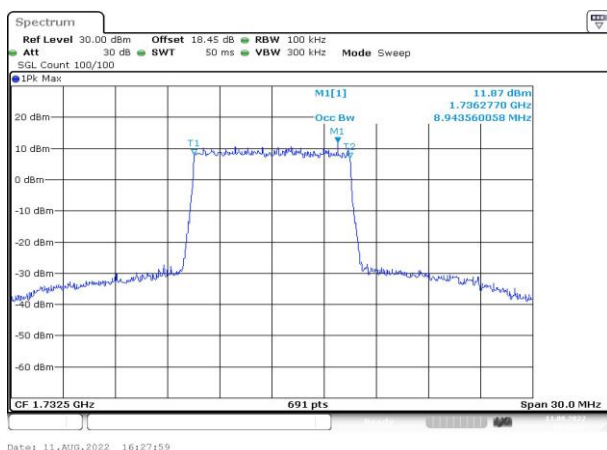
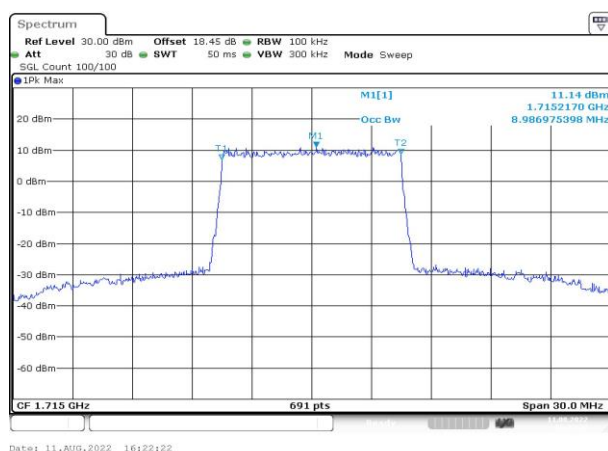
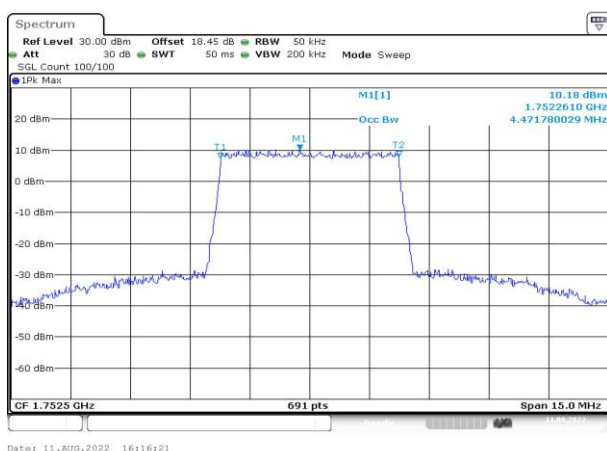
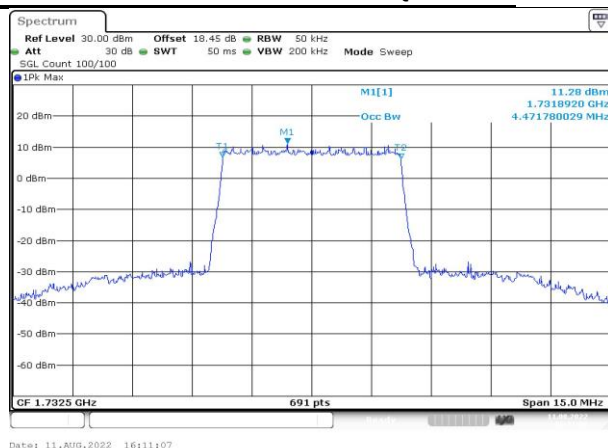
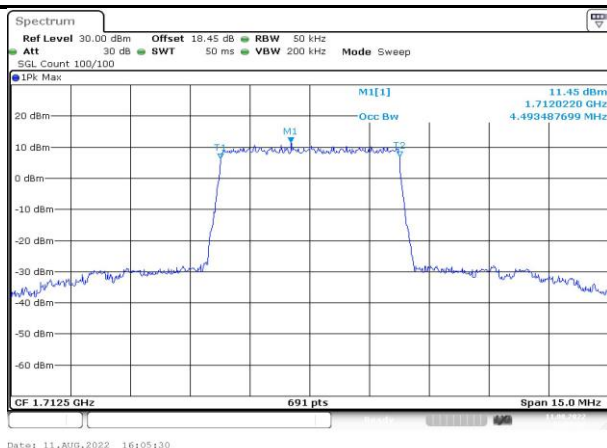


Fig.24



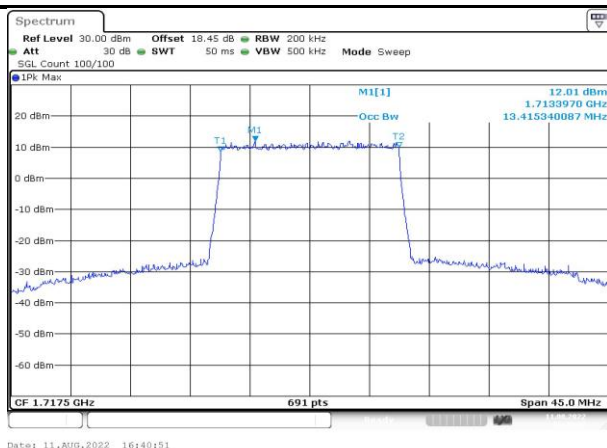


Fig.31

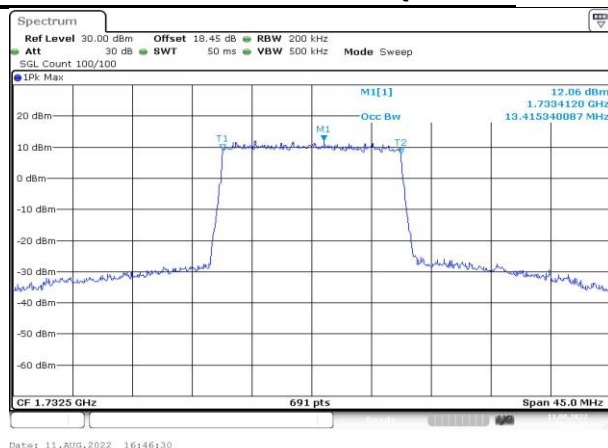


Fig.32

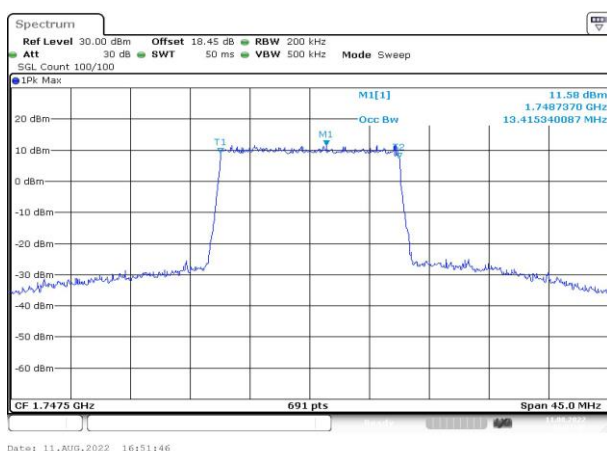


Fig.33

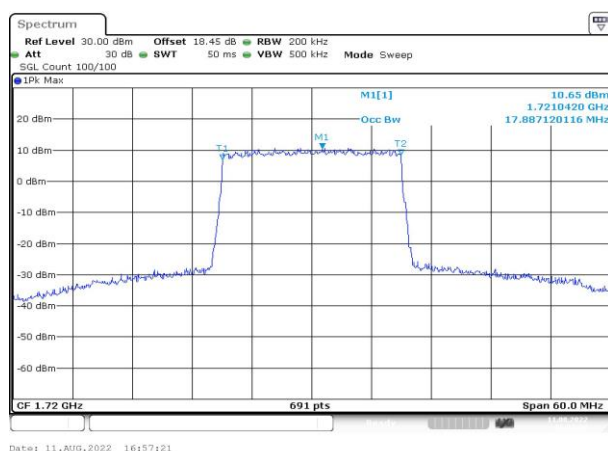


Fig.34

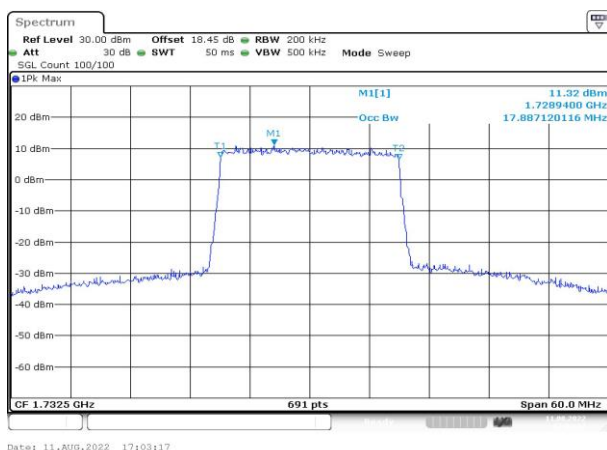


Fig.35

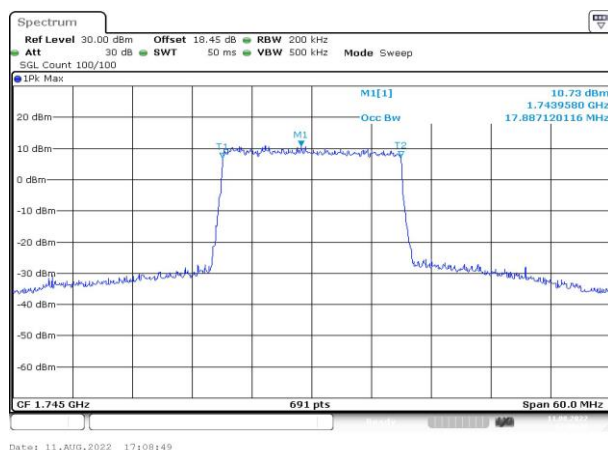


Fig.36

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
4	QPSK	1710.7	19957	1.4	6	0	1.240	Fig.1
4	QPSK	1732.5	20175	1.4	6	0	1.210	Fig.2
4	QPSK	1754.3	20393	1.4	6	0	1.222	Fig.3
4	QPSK	1711.5	19965	3	15	0	2.957	Fig.4
4	QPSK	1732.5	20175	3	15	0	2.944	Fig.5
4	QPSK	1753.5	20385	3	15	0	2.918	Fig.6
4	QPSK	1712.5	19975	5	25	0	4.884	Fig.7
4	QPSK	1732.5	20175	5	25	0	4.906	Fig.8
4	QPSK	1752.5	20375	5	25	0	4.863	Fig.9
4	QPSK	1715	20000	10	50	0	9.638	Fig.10
4	QPSK	1732.5	20175	10	50	0	9.768	Fig.11
4	QPSK	1750	20350	10	50	0	9.725	Fig.12
4	QPSK	1717.5	20025	15	75	0	14.653	Fig.13
4	QPSK	1732.5	20175	15	75	0	14.588	Fig.14
4	QPSK	1747.5	20325	15	75	0	14.522	Fig.15
4	QPSK	1720	20050	20	100	0	19.103	Fig.16
4	QPSK	1732.5	20175	20	100	0	19.103	Fig.17
4	QPSK	1745	20300	20	100	0	19.276	Fig.18

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
4	16QAM	1710.7	19957	1.4	6	0	1.197	Fig.19
4	16QAM	1732.5	20175	1.4	6	0	1.222	Fig.20
4	16QAM	1754.3	20393	1.4	6	0	1.228	Fig.21
4	16QAM	1711.5	19965	3	15	0	2.944	Fig.22
4	16QAM	1732.5	20175	3	15	0	2.957	Fig.23
4	16QAM	1753.5	20385	3	15	0	2.944	Fig.24
4	16QAM	1712.5	19975	5	25	0	4.906	Fig.25
4	16QAM	1732.5	20175	5	25	0	4.884	Fig.26
4	16QAM	1752.5	20375	5	25	0	4.906	Fig.27
4	16QAM	1715	20000	10	50	0	9.638	Fig.28
4	16QAM	1732.5	20175	10	50	0	9.682	Fig.29
4	16QAM	1750	20350	10	50	0	9.638	Fig.30
4	16QAM	1717.5	20025	15	75	0	14.588	Fig.31
4	16QAM	1732.5	20175	15	75	0	14.588	Fig.32
4	16QAM	1747.5	20325	15	75	0	14.588	Fig.33
4	16QAM	1720	20050	20	100	0	19.276	Fig.34
4	16QAM	1732.5	20175	20	100	0	19.190	Fig.35
4	16QAM	1745	20300	20	100	0	19.190	Fig.36

Test Mode: QPSK

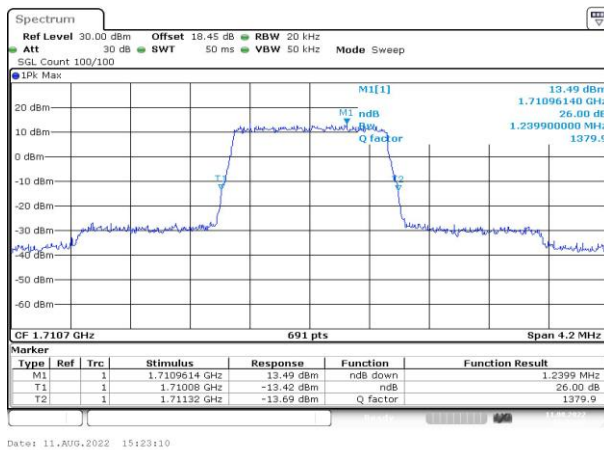


Fig.1

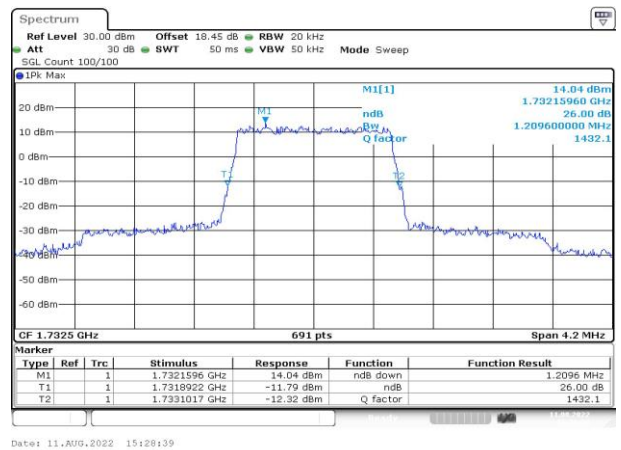


Fig.2

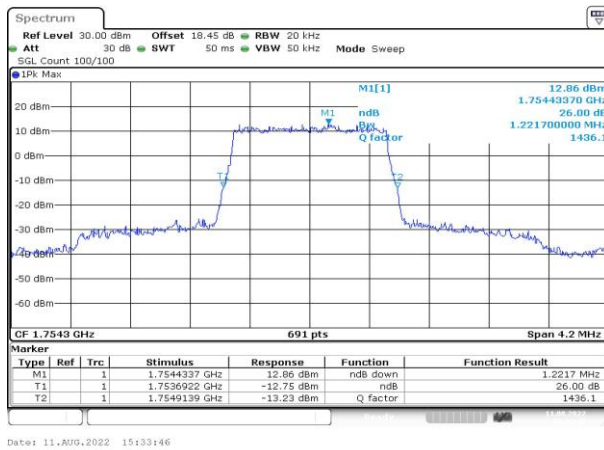


Fig.3

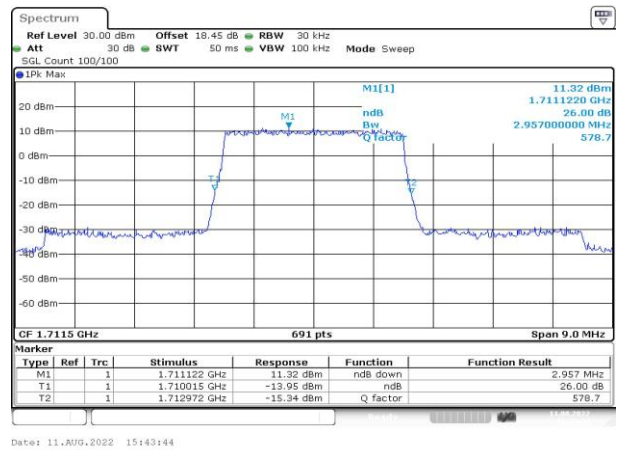


Fig.4

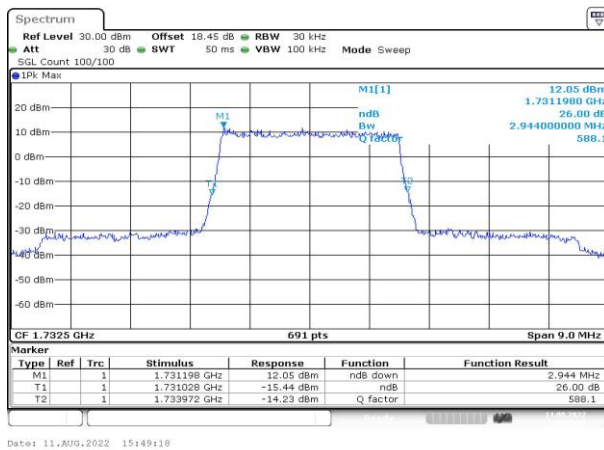


Fig.5

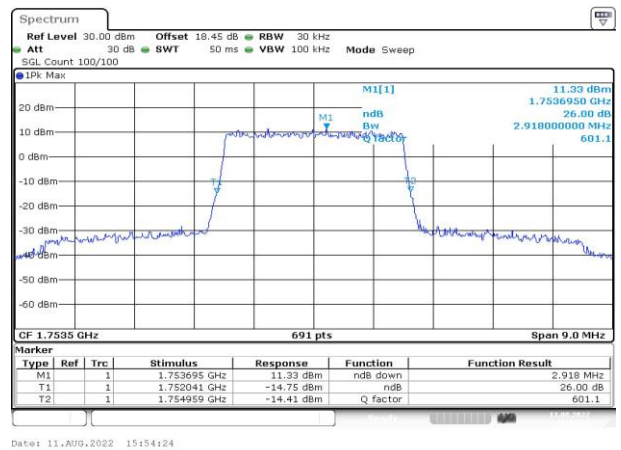


Fig.6

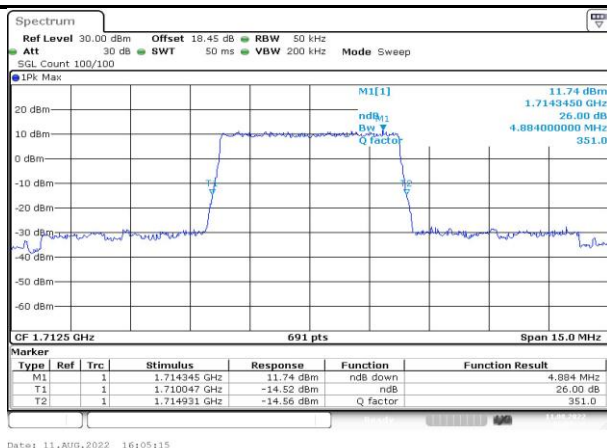


Fig.7

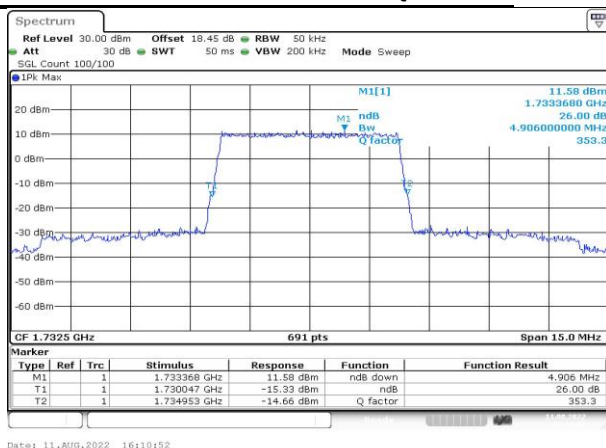


Fig.8

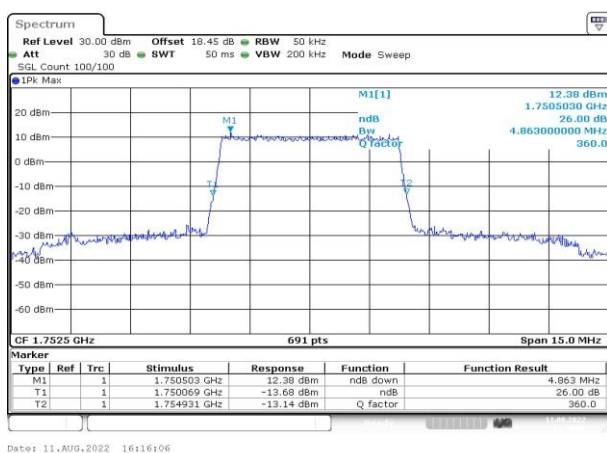


Fig.9

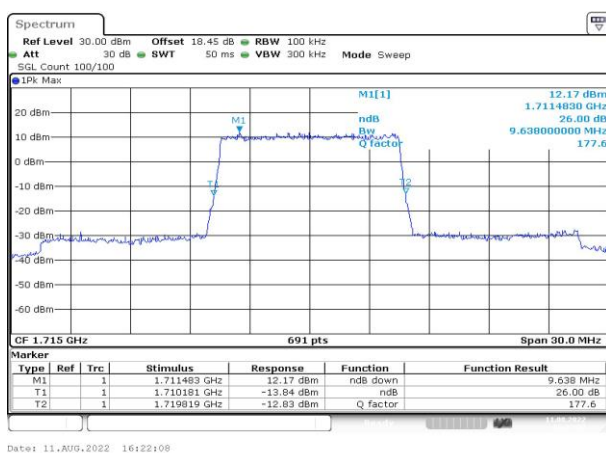


Fig.10

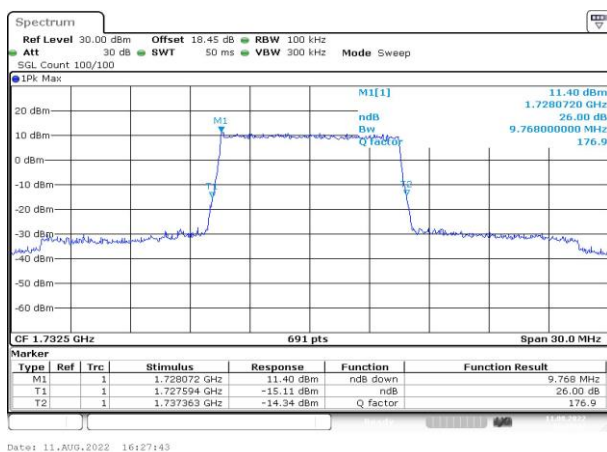


Fig.11

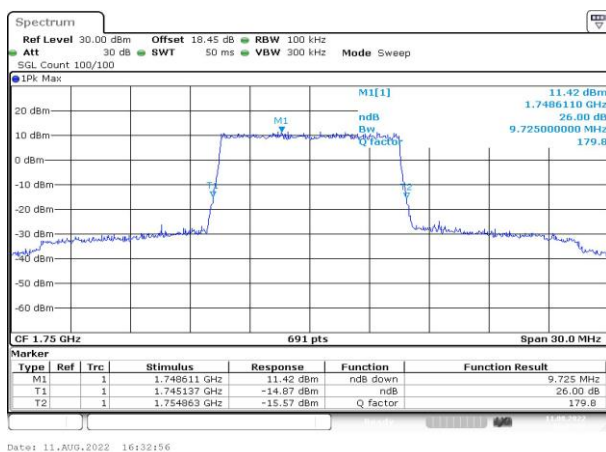


Fig.12

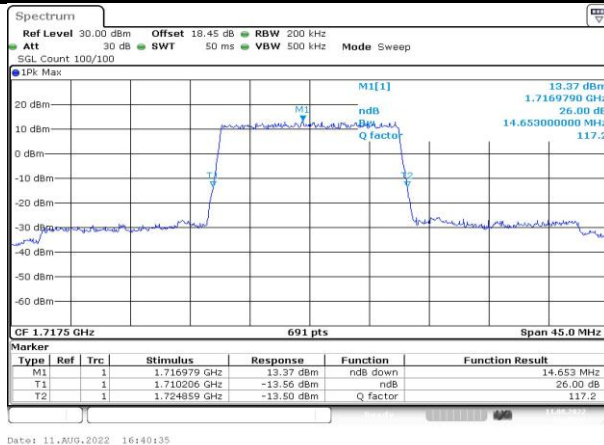


Fig.13

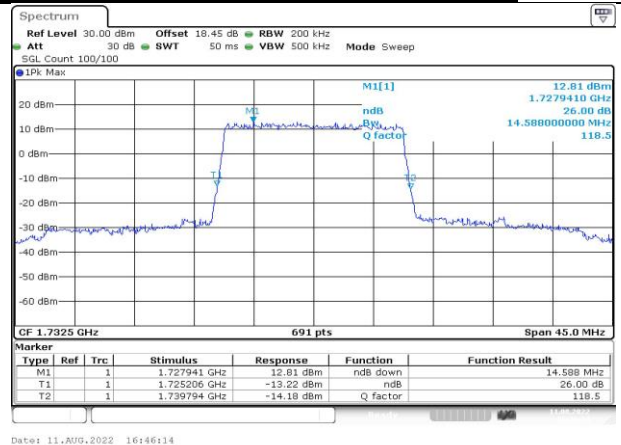


Fig.14

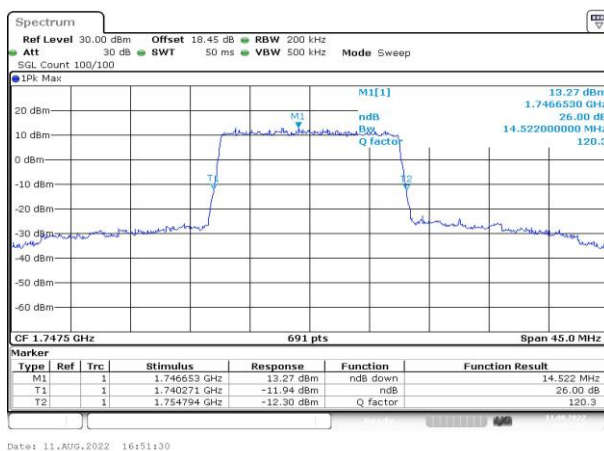


Fig.15

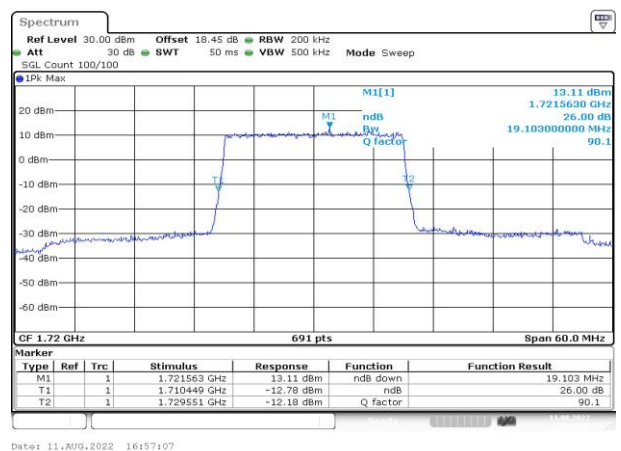


Fig.16

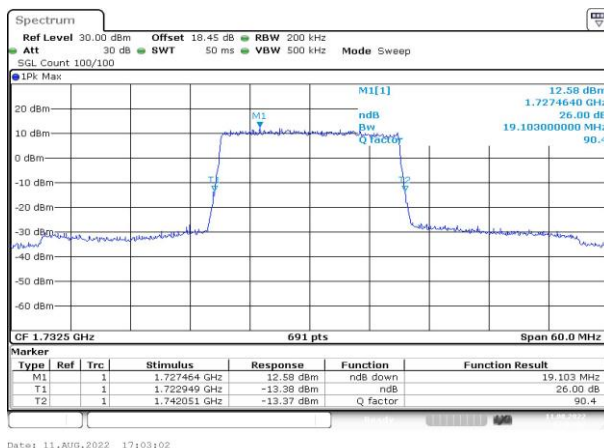


Fig.17

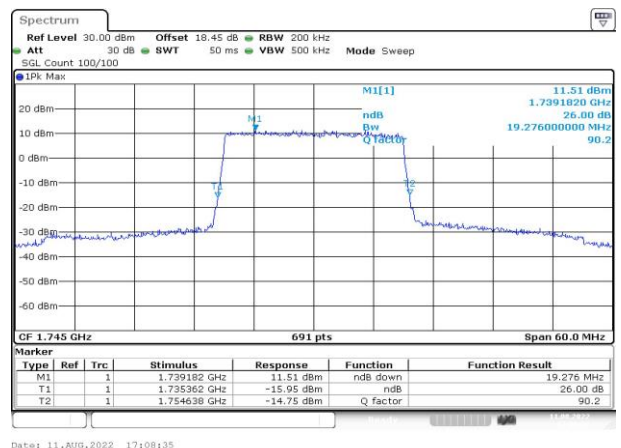


Fig.18

Test Mode: 16QAM

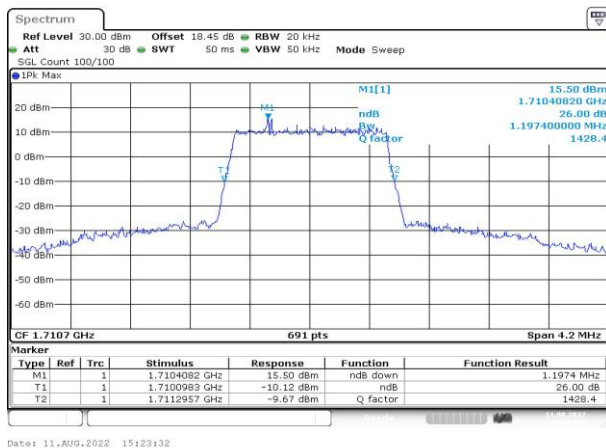


Fig.19

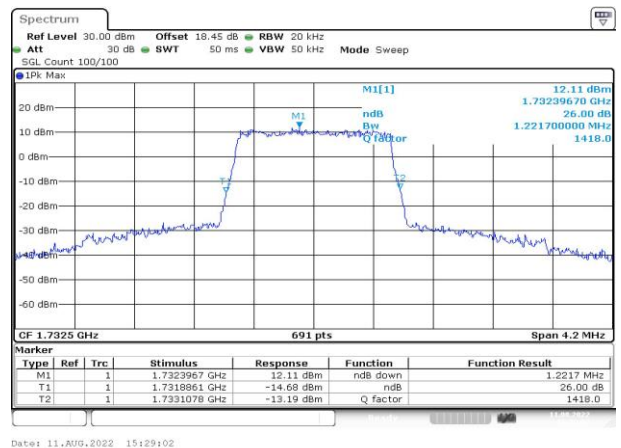


Fig.20

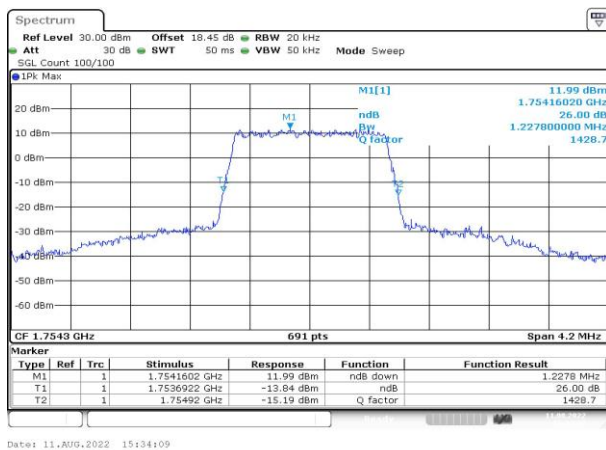


Fig.21

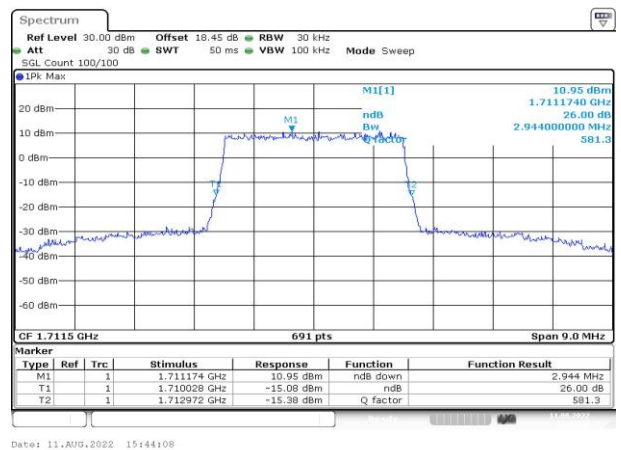


Fig.22

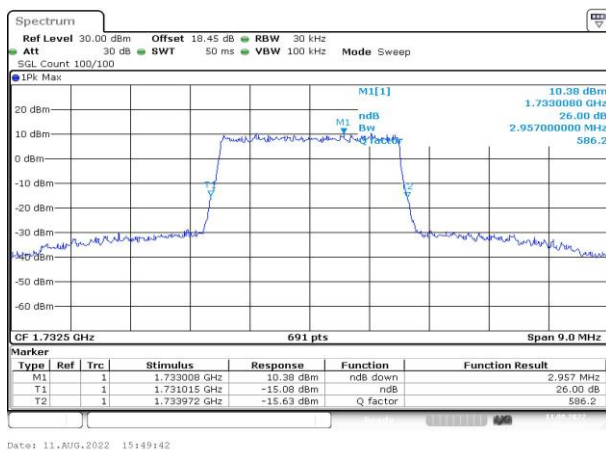


Fig.23

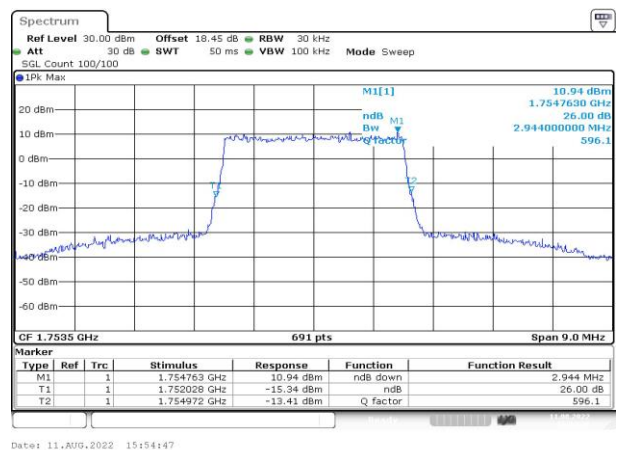


Fig.24

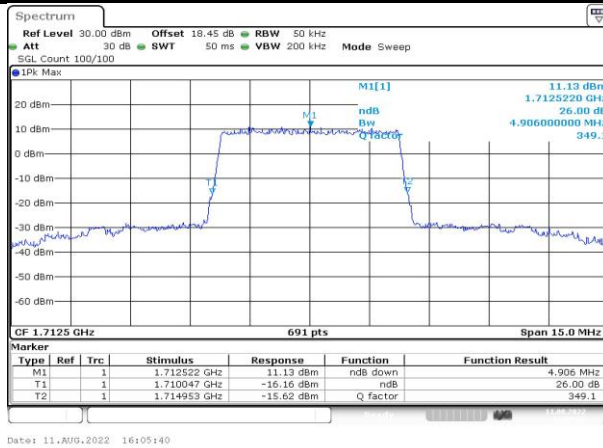


Fig.25

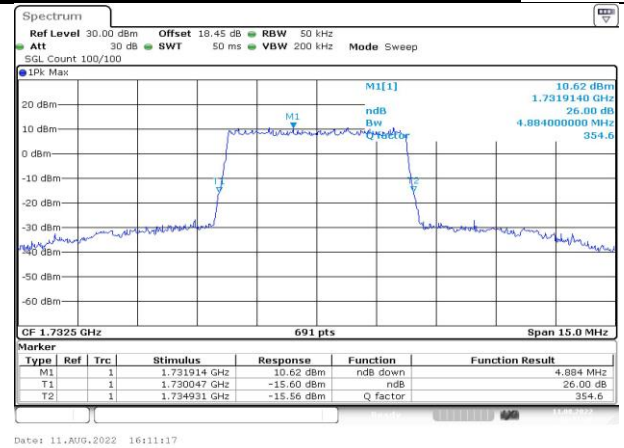


Fig.26

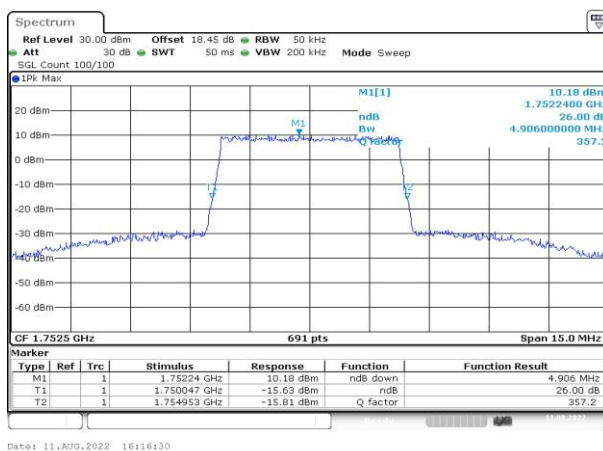


Fig.27

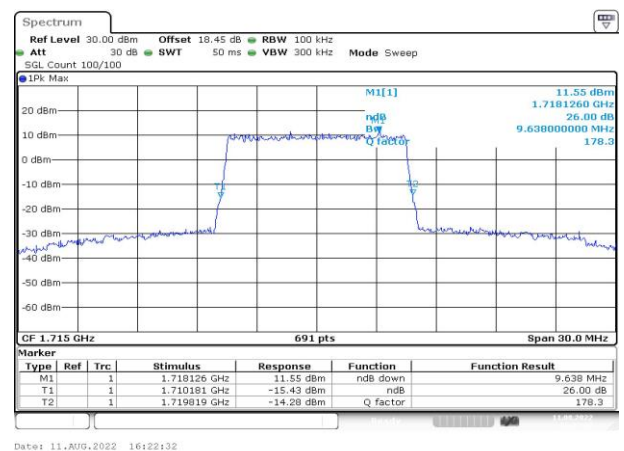


Fig.28

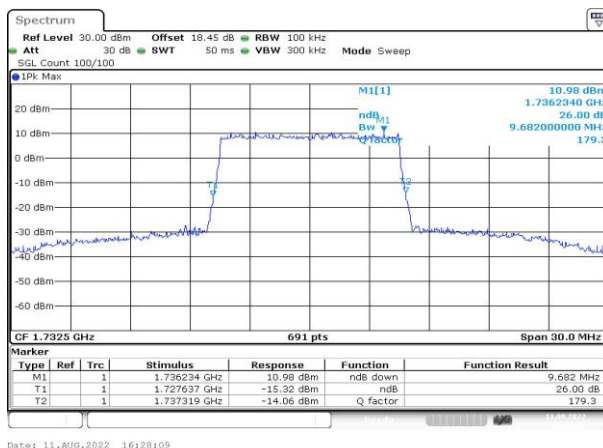


Fig.29

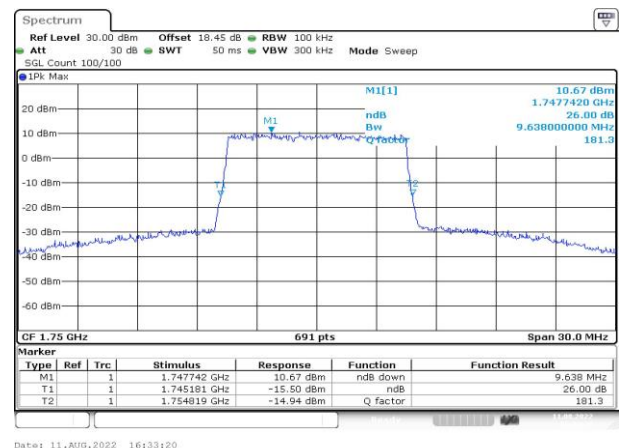


Fig.30