

Field Strength of Spurious Radiation

LTE Mode Test Verdict

Test Band	Test Bandwidth(MHz)	UL Channel	UL RB Number	UL RB Position	UL Modulation	Verdict
Cat-M Band 2	15	18900	6	0	QPSK	Pass
Cat-M Band 4	20	20175	1	0	16QAM	Pass
Cat-M Band 5	5	20425	1	0	16QAM	Pass
Cat-M Band 12	10	23130	1	0	QPSK	Pass
Cat-M Band 13	5	23255	1	0	QPSK	Pass
Cat-M Band 25	15	26365	1	0	QPSK	Pass
Cat-M Band 26 (Part22)	15	26965	1	0	QPSK	Pass
Cat-M Band 26 (Part90)	5	26740	1	0	QPSK	Pass
Cat-M Band 66	5	132322	1	0	QPSK	Pass

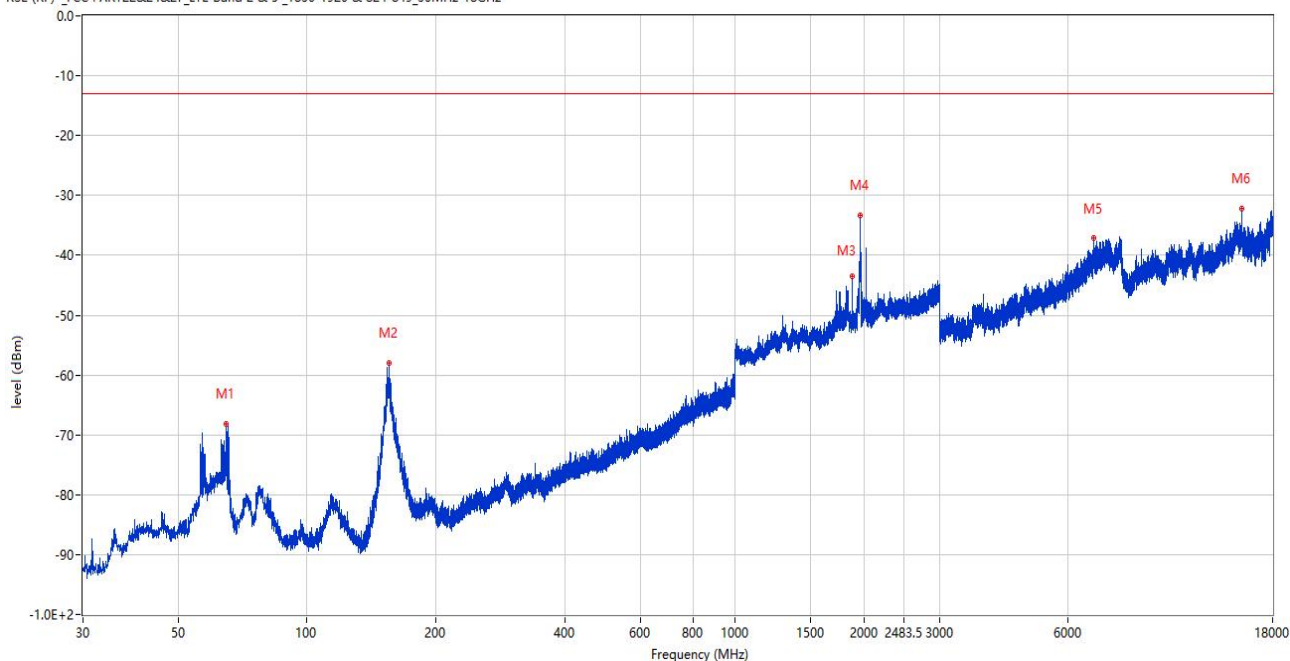
Test Band	Bandwidth (KHz)	UL Channel	UL Modulation	UL RB Number	UL RB Position	Verdict
NB-IoT Band 2	15	HCH	BPSK	1	0	Pass
NB-IoT Band 4	15	HCH	QPSK	1	11	Pass
NB-IoT Band 5	3.75	MCH	BPSK	1	47	Pass
NB-IoT Band 12	15	MCH	QPSK	1	0	Pass
NB-IoT Band 13	15	HCH	QPSK	1	11	Pass
NB-IoT Band 17	15	HCH	QPSK	12	0	Pass
NB-IoT Band 25	15	HCH	BPSK	1	0	Pass
NB-IoT Band 66	15	LCH	BPSK	1	11	Pass

1 LTE Cat-M

1.1 LTE Cat-M Band 2

Band:LTE B2

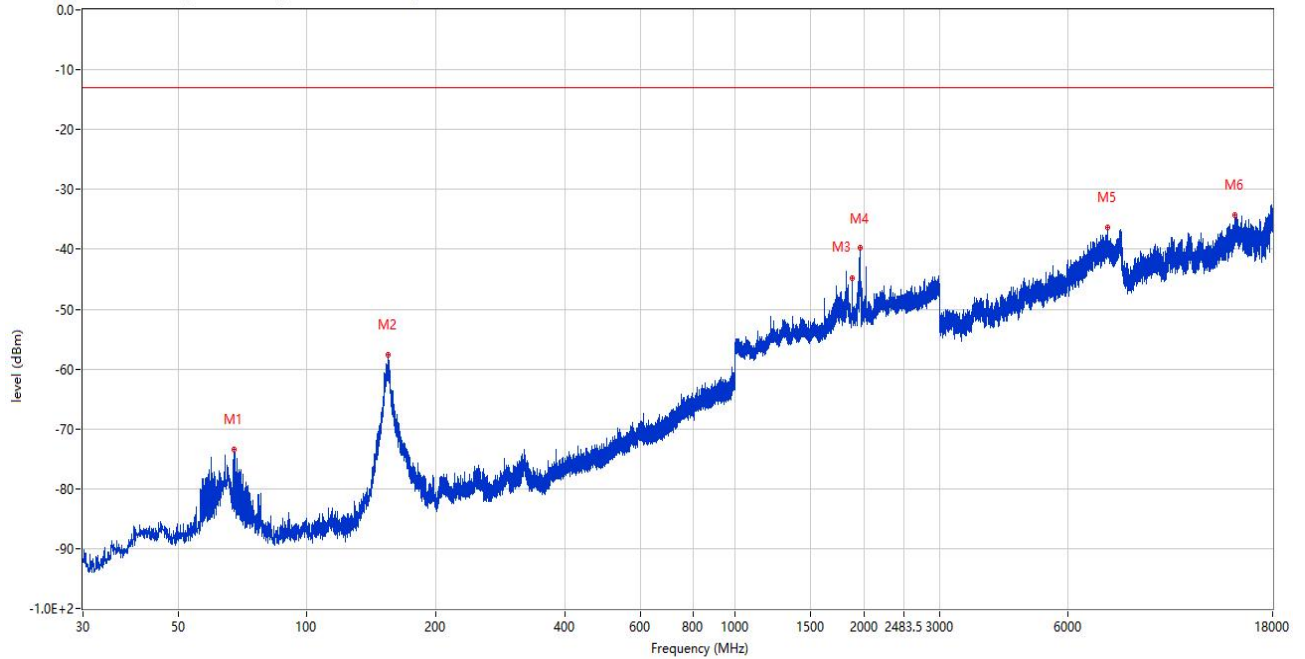
RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
64.871	-68.14	-16.31	-13.0	55.14	90.00	Vertical	Vertical	Pass
155.615	-57.91	-19.30	-13.0	44.91	269.00	Vertical	Vertical	Pass
1873.200	-43.59	3.38	-13.0	30.59	101.00	Vertical	Vertical	N/A
1956.900	-33.31	2.84	-13.0	20.31	240.00	Vertical	Vertical	N/A
6875.750	-37.15	16.76	-13.0	24.15	110.00	Vertical	Vertical	Pass
15263.000	-32.30	22.65	-13.0	19.30	232.00	Vertical	Vertical	Pass

Band:LTE B2

RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz

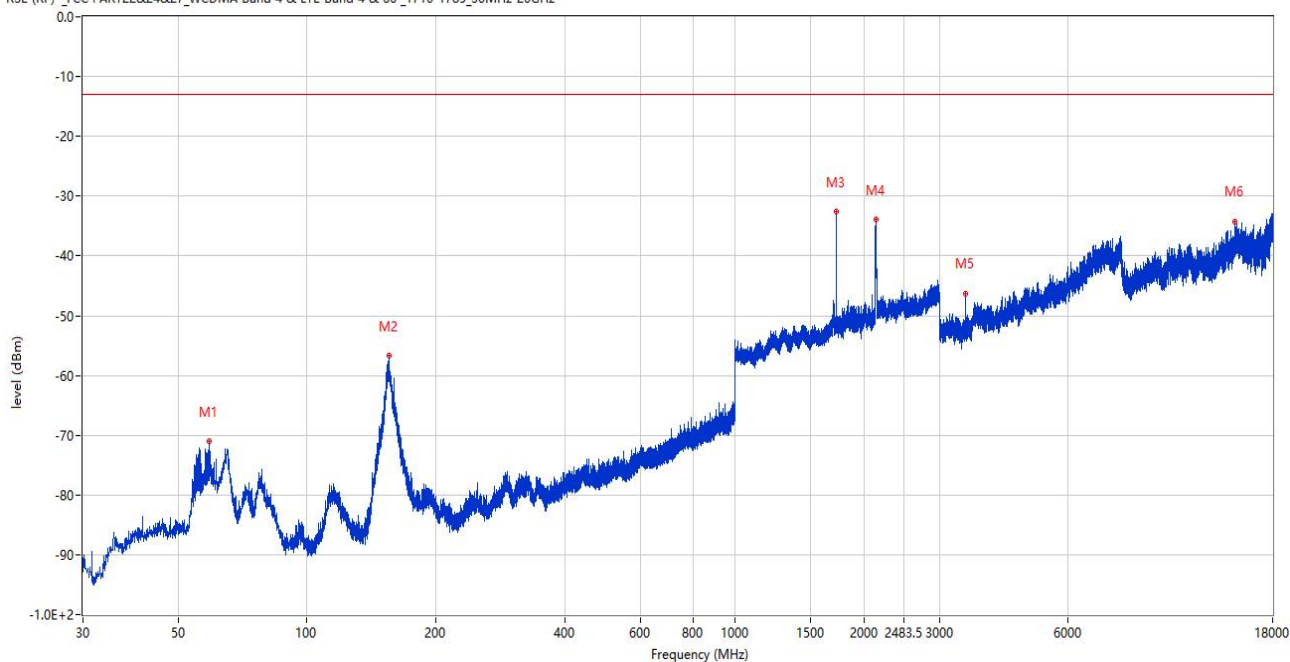


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
67.733	-73.48	-16.63	-13.0	60.48	82.00	Horizontal	Vertical	Pass
154.742	-57.58	-19.46	-13.0	44.58	167.00	Horizontal	Vertical	Pass
1873.500	-44.84	3.39	-13.0	31.84	65.00	Horizontal	Vertical	N/A
1957.400	-39.81	2.85	-13.0	26.81	307.00	Horizontal	Vertical	N/A
7407.250	-36.35	19.06	-13.0	23.35	348.00	Horizontal	Vertical	Pass
14699.500	-34.25	23.41	-13.0	21.25	225.00	Horizontal	Vertical	Pass

1.2 LTE Cat-M Band 4

Band:LTE B4

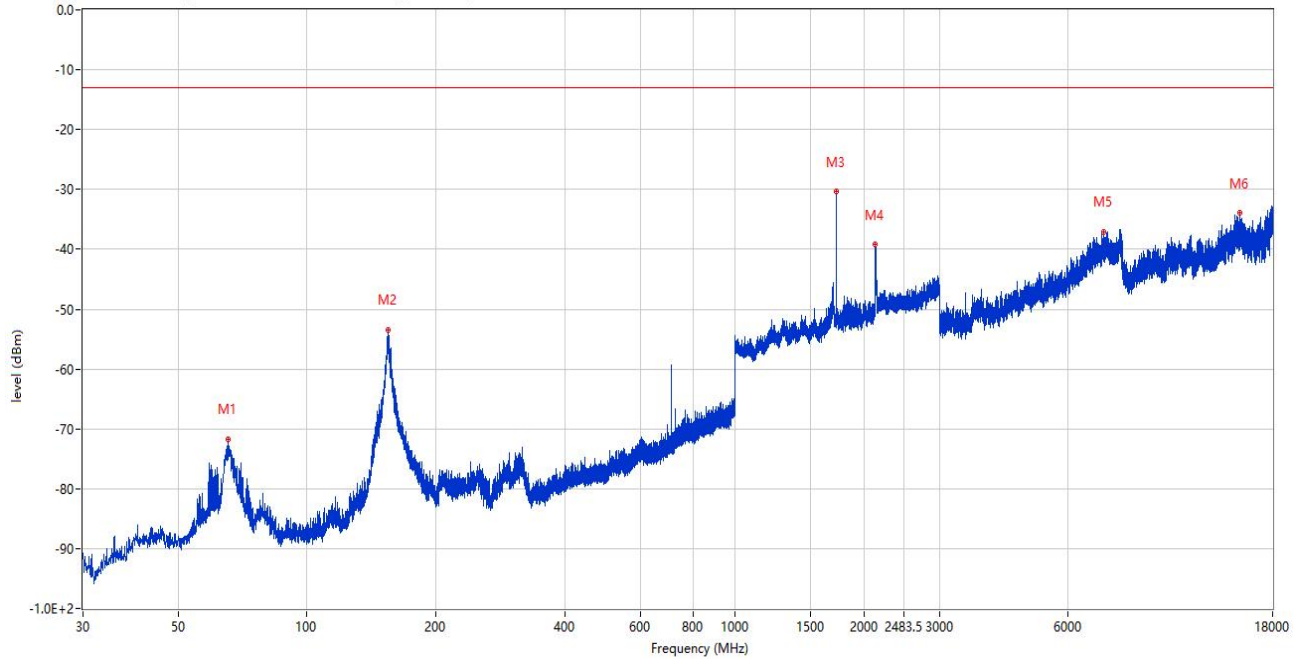
RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66_1710-1785_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.245	-71.03	-16.96	-13.0	58.03	250.00	Vertical	Vertical	Pass
155.566	-56.70	-20.84	-13.0	43.70	256.00	Vertical	Vertical	Pass
1723.900	-32.61	2.70	-13.0	19.61	90.00	Vertical	Vertical	N/A
2128.700	-33.95	3.90	-13.0	20.95	231.00	Vertical	Vertical	N/A
3447.750	-46.37	4.85	-13.0	33.37	359.00	Vertical	Vertical	Pass
14703.000	-34.24	23.44	-13.0	21.24	64.00	Vertical	Vertical	Pass

Band:LTE B4

RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66 _1710-1785_30MHz-20GHz

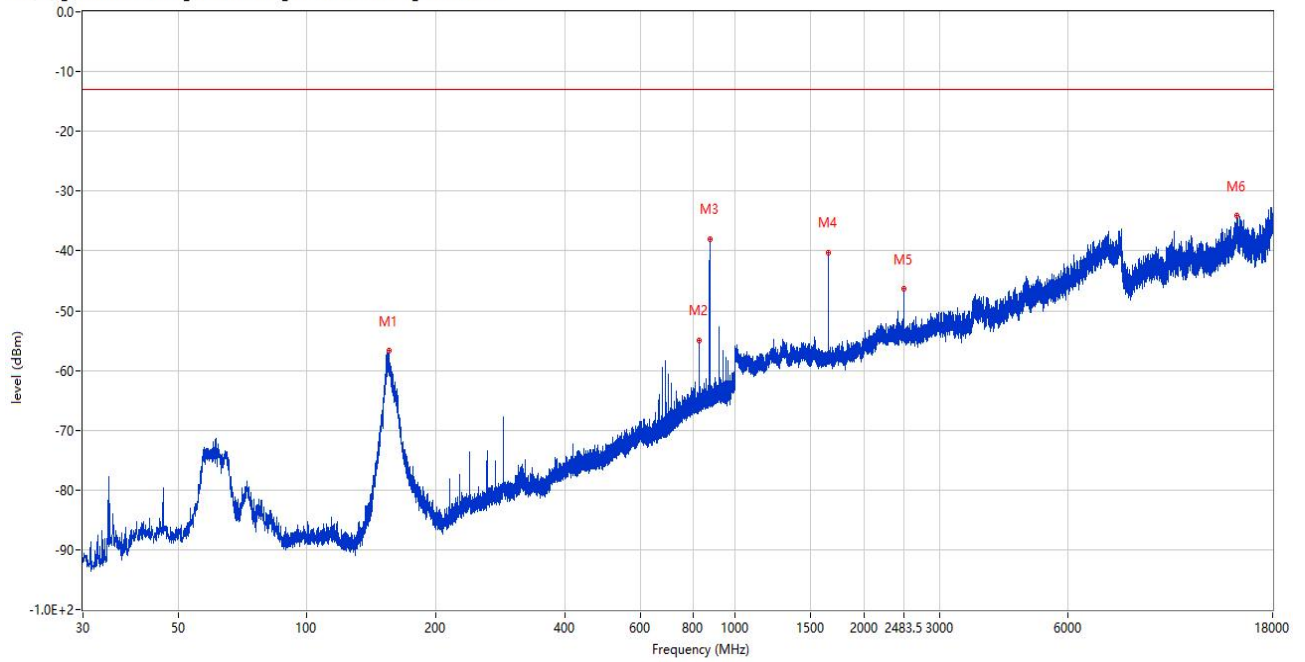


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
65.550	-71.83	-17.52	-13.0	58.83	255.00	Horizontal	Vertical	Pass
154.645	-53.42	-21.01	-13.0	40.42	131.00	Horizontal	Vertical	Pass
1723.900	-30.34	2.70	-13.0	17.34	46.00	Horizontal	Vertical	N/A
2128.400	-39.21	3.90	-13.0	26.21	295.00	Horizontal	Vertical	N/A
7266.250	-37.19	17.41	-13.0	24.19	220.00	Horizontal	Vertical	Pass
15126.674	-33.98	22.29	-13.0	20.98	360.00	Horizontal	Vertical	Pass

1.3 LTE Cat-M Band 5

Band:LTE B5

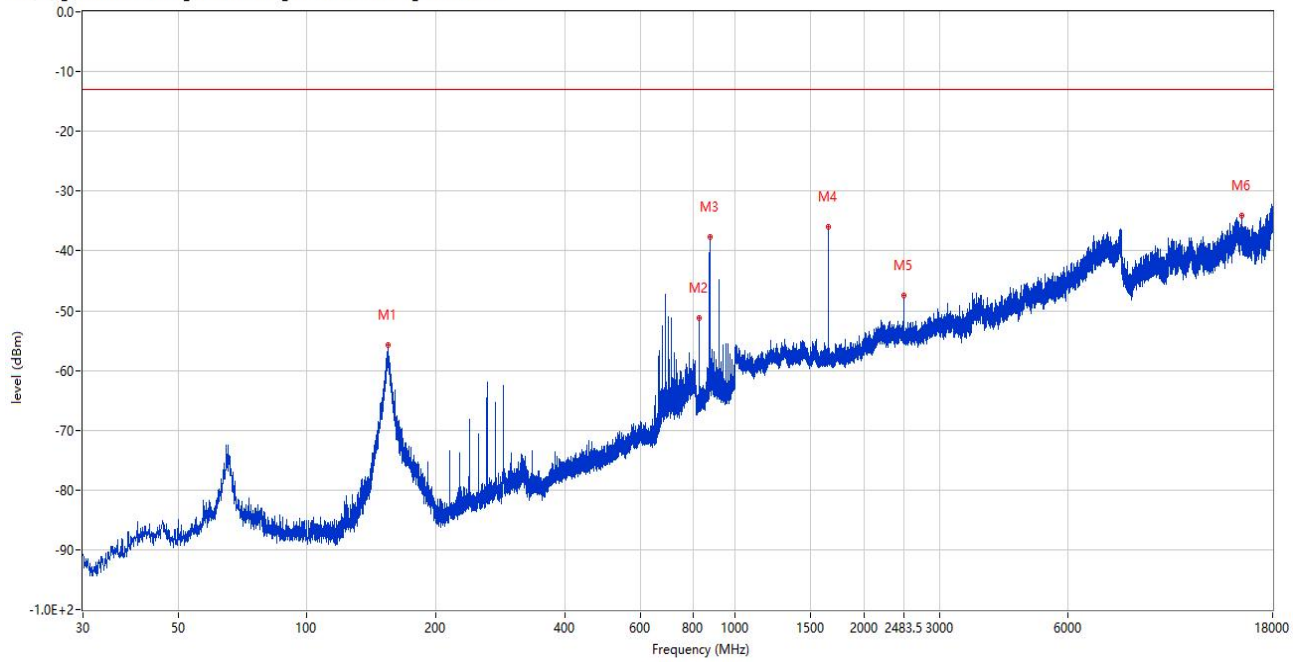
RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
155.664	-56.63	-19.29	-13.0	43.63	288.00	Vertical	Vertical	Pass
824.333	-55.08	4.70	-13.0	42.08	217.00	Vertical	Vertical	N/A
873.657	-38.01	4.86	-13.0	25.01	91.00	Vertical	Vertical	N/A
1648.600	-40.27	-3.61	-13.0	27.27	110.00	Vertical	Vertical	Pass
2473.000	-46.30	1.09	-13.0	33.30	49.00	Vertical	Vertical	Pass
14822.000	-34.11	24.48	-13.0	21.11	342.00	Vertical	Vertical	Pass

Band:LTE B5

RSE (RF) _FCC PART228&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz

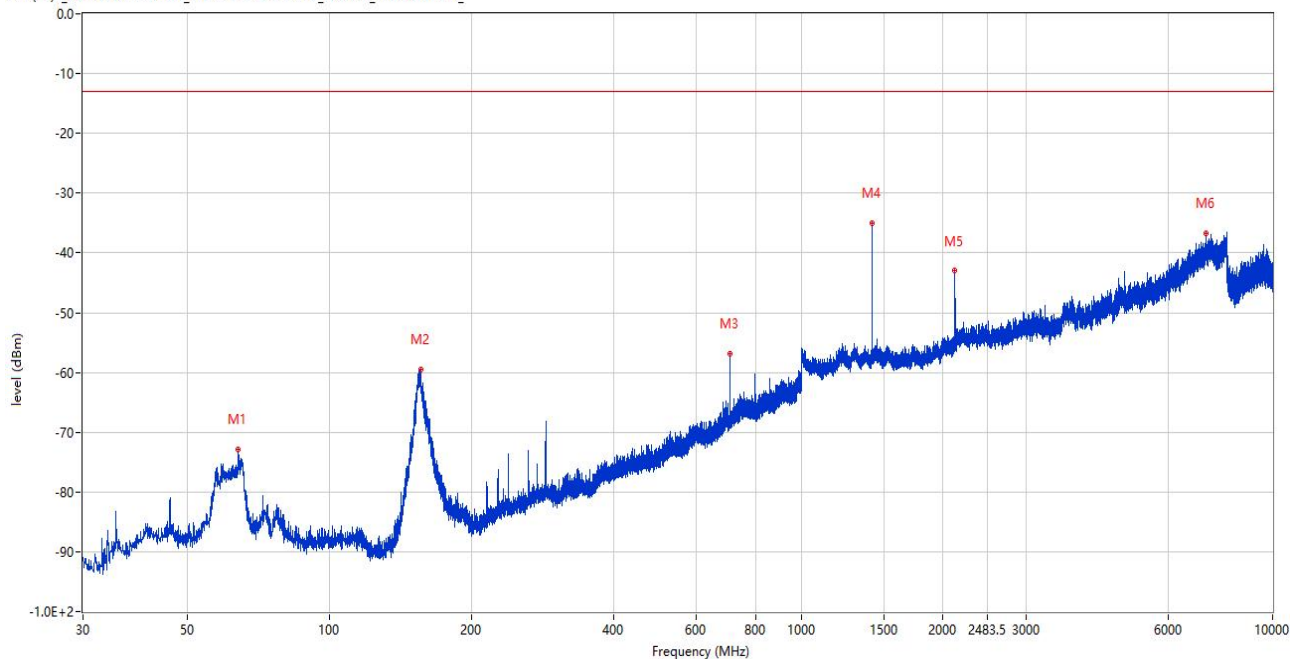


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
154.500	-55.84	-19.50	-13.0	42.84	154.00	Horizontal	Vertical	Pass
824.381	-51.14	4.70	-13.0	38.14	0.00	Horizontal	Vertical	N/A
872.930	-37.58	4.80	-13.0	24.58	81.00	Horizontal	Vertical	N/A
1648.700	-35.95	-3.61	-13.0	22.95	242.00	Horizontal	Vertical	Pass
2472.900	-47.39	1.09	-13.0	34.39	85.00	Horizontal	Vertical	Pass
15257.000	-34.08	22.74	-13.0	21.08	284.00	Horizontal	Vertical	Pass

1.4 LTE Cat-M Band 12

Band:LTE B12

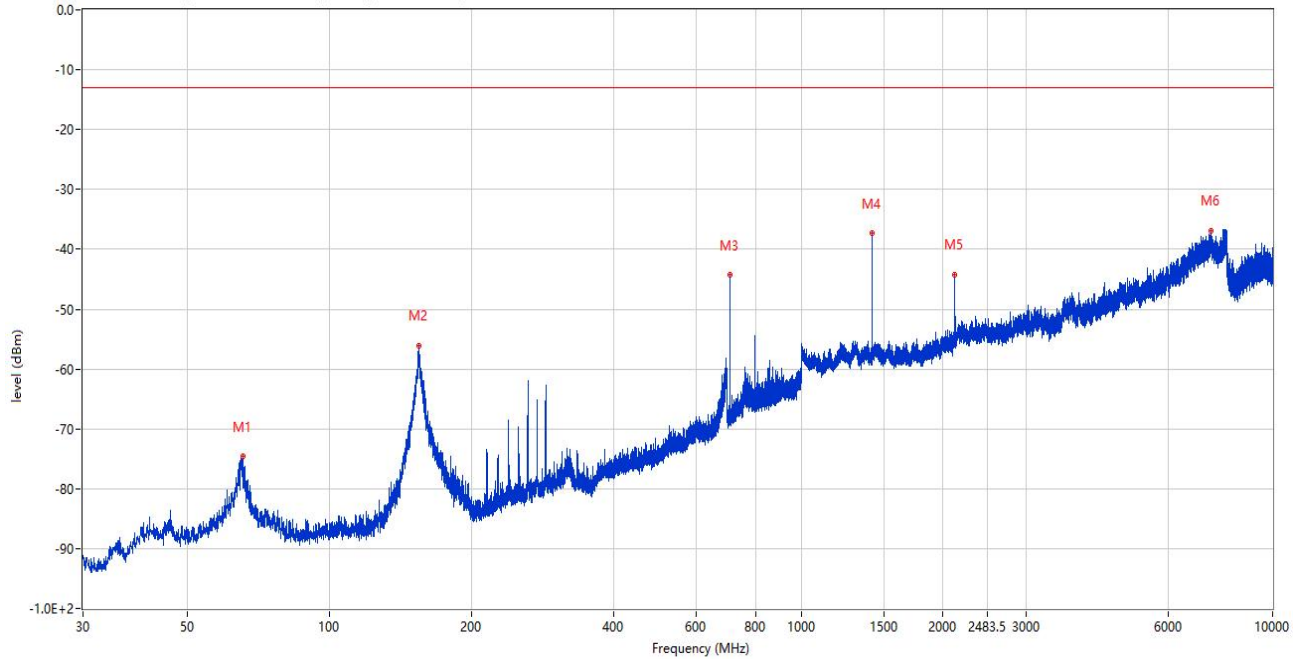
RSE (RF) _FCC PART22&24&27_LTE B12 & B17 & B28 _699-748_30MHz-10GHz_



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
64.047	-72.97	-16.01	-13.0	59.97	195.00	Vertical	Vertical	Pass
155.858	-59.58	-19.15	-13.0	46.58	268.00	Vertical	Vertical	Pass
706.769	-56.85	2.26	-13.0	43.85	146.00	Vertical	Vertical	N/A
1413.500	-34.98	-3.61	-13.0	21.98	278.00	Vertical	Vertical	Pass
2120.100	-43.03	-0.77	-13.0	30.03	147.00	Vertical	Vertical	Pass
7228.000	-36.64	18.54	-13.0	23.64	8.00	Vertical	Vertical	Pass

Band:LTE B12

RSE (RF) _FCC PART22&24&27_LTE B12 & B17 & B28 _699-748_30MHz-10GHz_

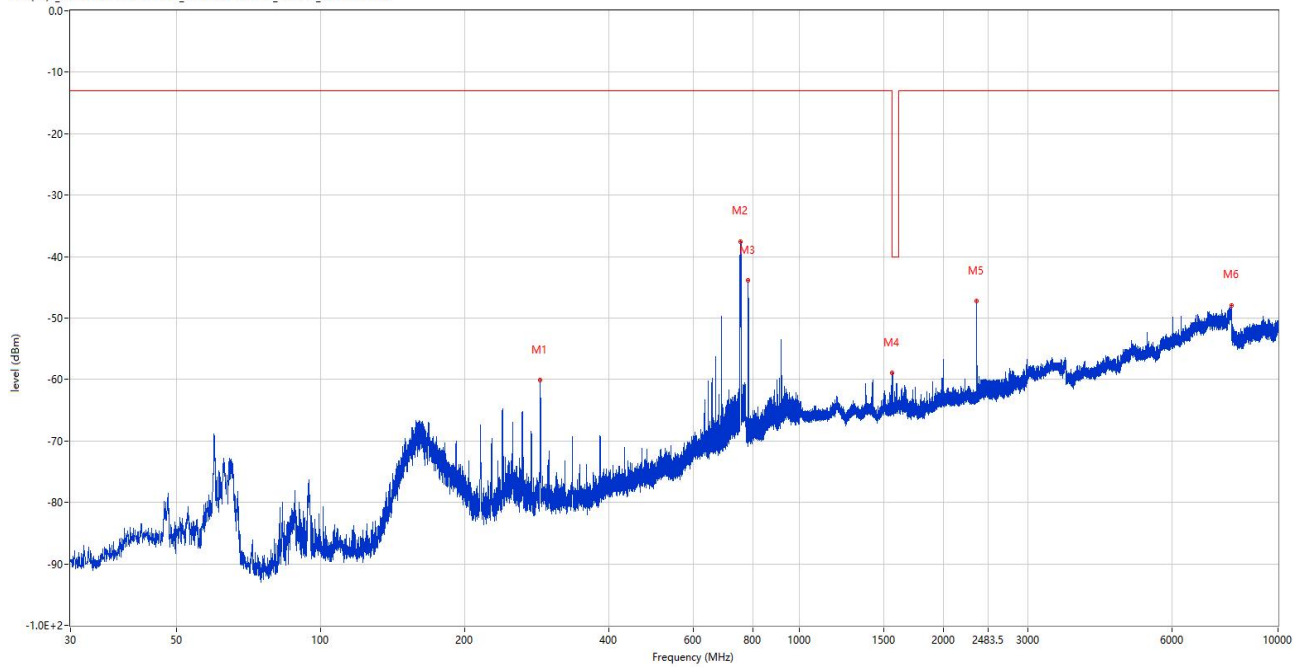


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
65.502	-74.54	-16.52	-13.0	61.54	261.00	Horizontal	Vertical	Pass
154.451	-56.15	-19.40	-13.0	43.15	165.00	Horizontal	Vertical	Pass
706.818	-44.30	2.27	-13.0	31.30	0.00	Horizontal	Vertical	N/A
1413.400	-37.33	-3.61	-13.0	24.33	248.00	Horizontal	Vertical	Pass
2120.000	-44.33	-0.77	-13.0	31.33	216.00	Horizontal	Vertical	Pass
7407.750	-36.90	19.07	-13.0	23.90	191.00	Horizontal	Vertical	Pass

1.5 LTE Cat-M Band 13

Band:LTE B13

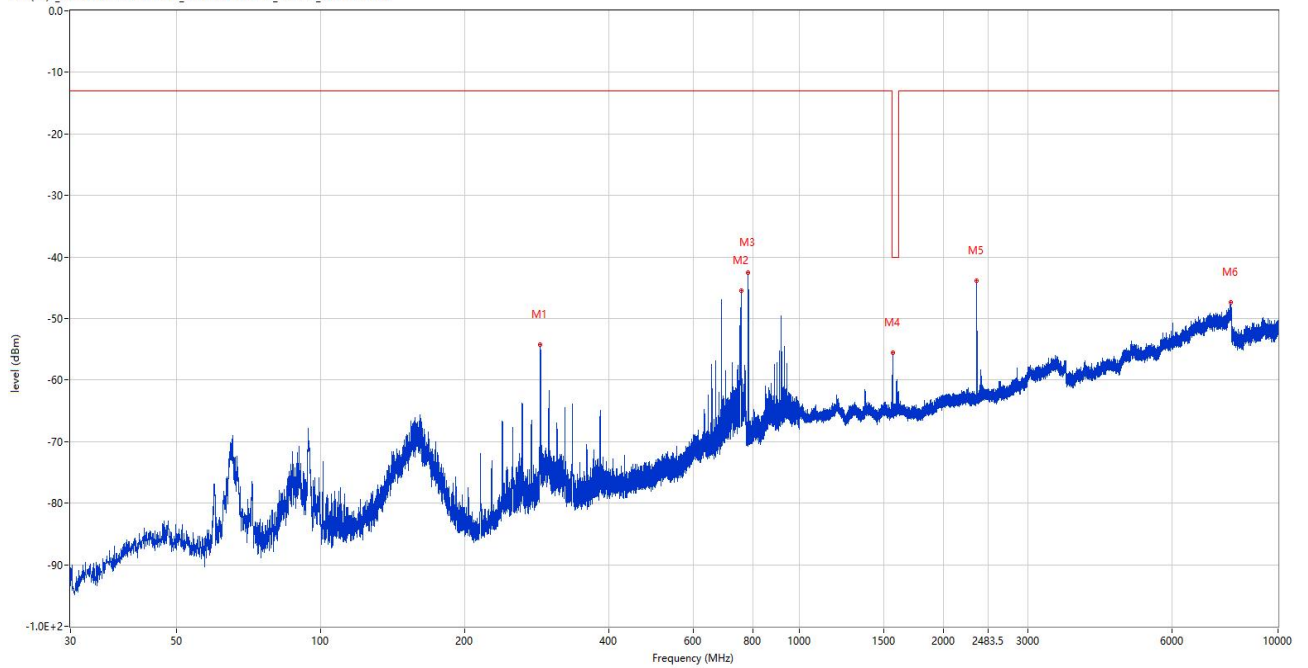
RSE (RF) _FCC PART22&24&27-RSE_LTE Band 13 & 14_777-803_30MHz-10GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
287.583	-60.12	-8.86	-13.0	47.12	121.00	Vertical	Horizontal	Pass
754.735	-37.50	4.57	-13.0	24.50	162.00	Vertical	Horizontal	Pass
782.332	-43.79	4.35	-13.0	30.79	74.00	Vertical	Horizontal	Pass
1564.400	-58.89	-4.01	-40.0	18.89	253.00	Vertical	Horizontal	Pass
2347.400	-47.19	-0.87	-13.0	34.19	331.00	Vertical	Horizontal	Pass
7987.000	-47.89	15.53	-13.0	34.89	8.00	Vertical	Horizontal	Pass

Band:LTE B13

RSE (RF) _FCC PART22&24&27-RSE_LTE Band 13 & 14_777-803_30MHz-10GHz

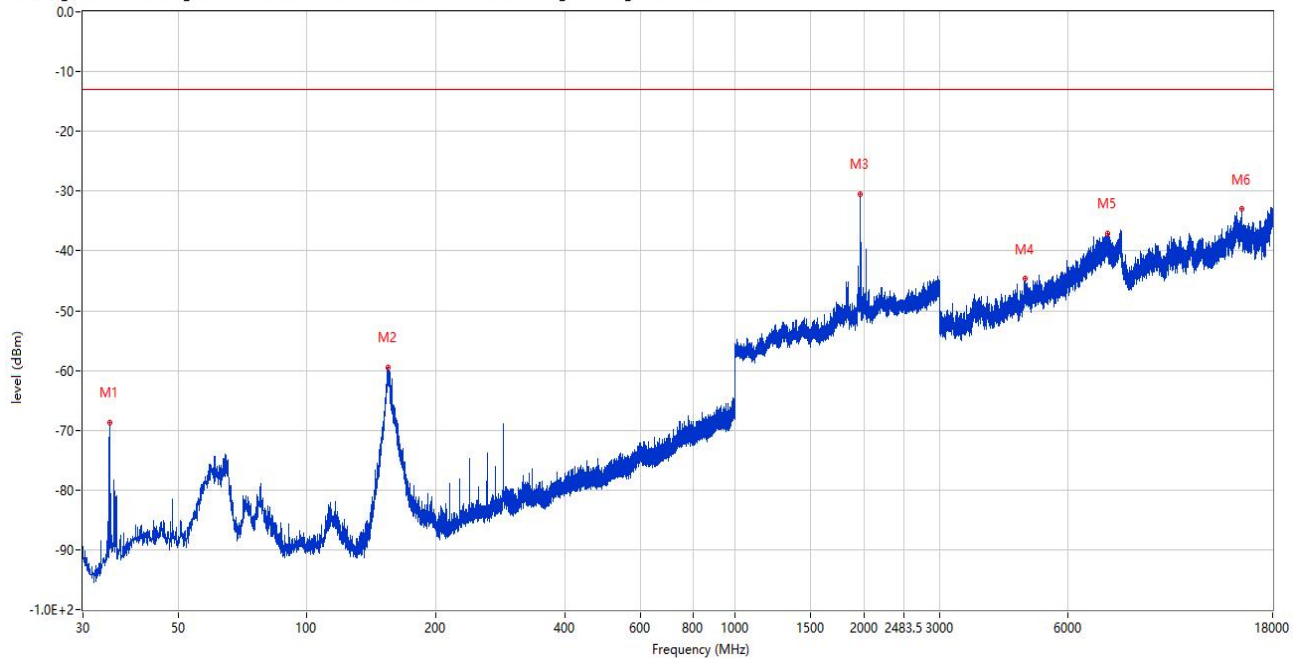


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
287.778	-54.29	-8.83	-13.0	41.29	92.00	Horizontal	Horizontal	Pass
755.511	-45.51	4.62	-13.0	32.51	92.00	Horizontal	Horizontal	Pass
782.332	-42.54	4.35	-13.0	29.54	259.00	Horizontal	Horizontal	Pass
1565.600	-55.56	-3.96	-40.0	15.56	235.00	Horizontal	Horizontal	Pass
2346.800	-43.82	-0.83	-13.0	30.82	90.00	Horizontal	Horizontal	Pass
7963.250	-47.31	15.89	-13.0	34.31	360.00	Horizontal	Horizontal	Pass

1.6 LTE Cat-M Band 25

Band:LTE B25

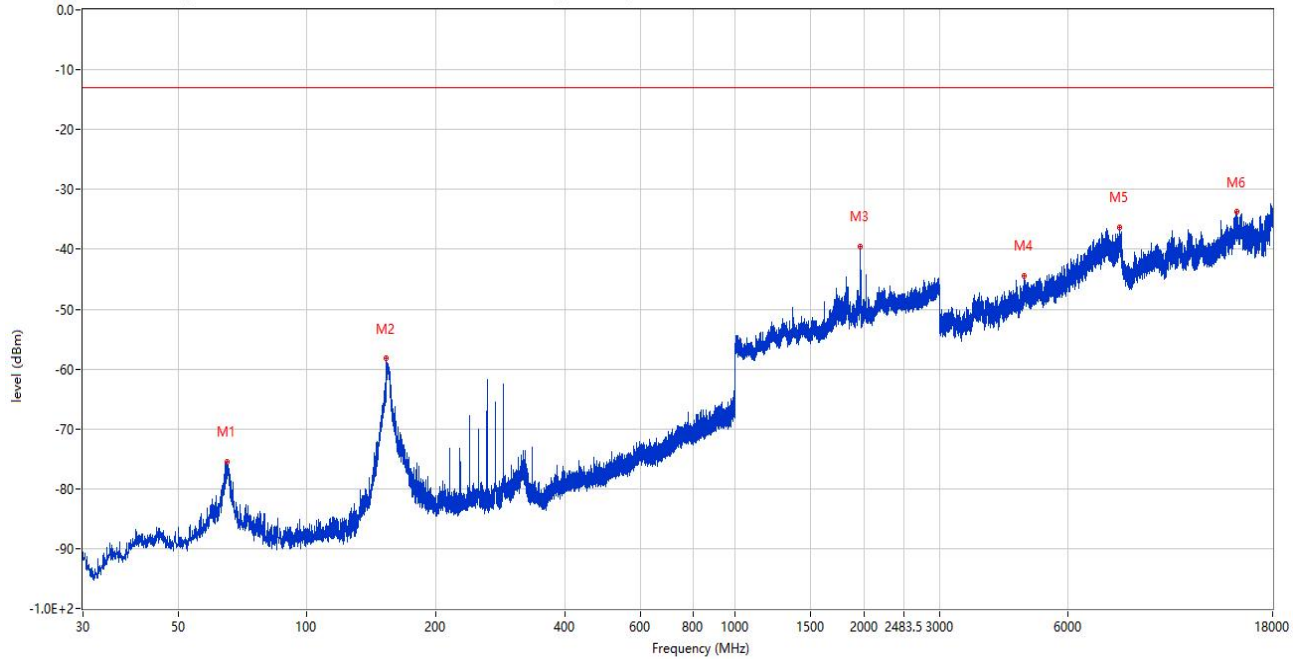
RSE (RF) _FCC PART22&24&27_GSM 1900 & CDMA BC1 & WCDMA Band 2 & LTE Band 2 & 25_1830-1920_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
34.608	-68.75	-20.81	-13.0	55.75	25.00	Vertical	Vertical	Pass
154.936	-59.43	-20.95	-13.0	46.43	256.00	Vertical	Vertical	Pass
1959.800	-30.42	2.91	-13.0	17.42	239.00	Vertical	Vertical	N/A
4749.750	-44.67	11.23	-13.0	31.67	217.00	Vertical	Vertical	Pass
7419.250	-37.01	18.71	-13.0	24.01	182.00	Vertical	Vertical	Pass
15236.500	-32.99	22.57	-13.0	19.99	136.00	Vertical	Vertical	Pass

Band:LTE B25

RSE (RF) _FCC PART22&24&27_GSM 1900 & CDMA BC1 & WCDMA Band 2 & LTE Band 2 & 25_1830-1920_30MHz-20GHz

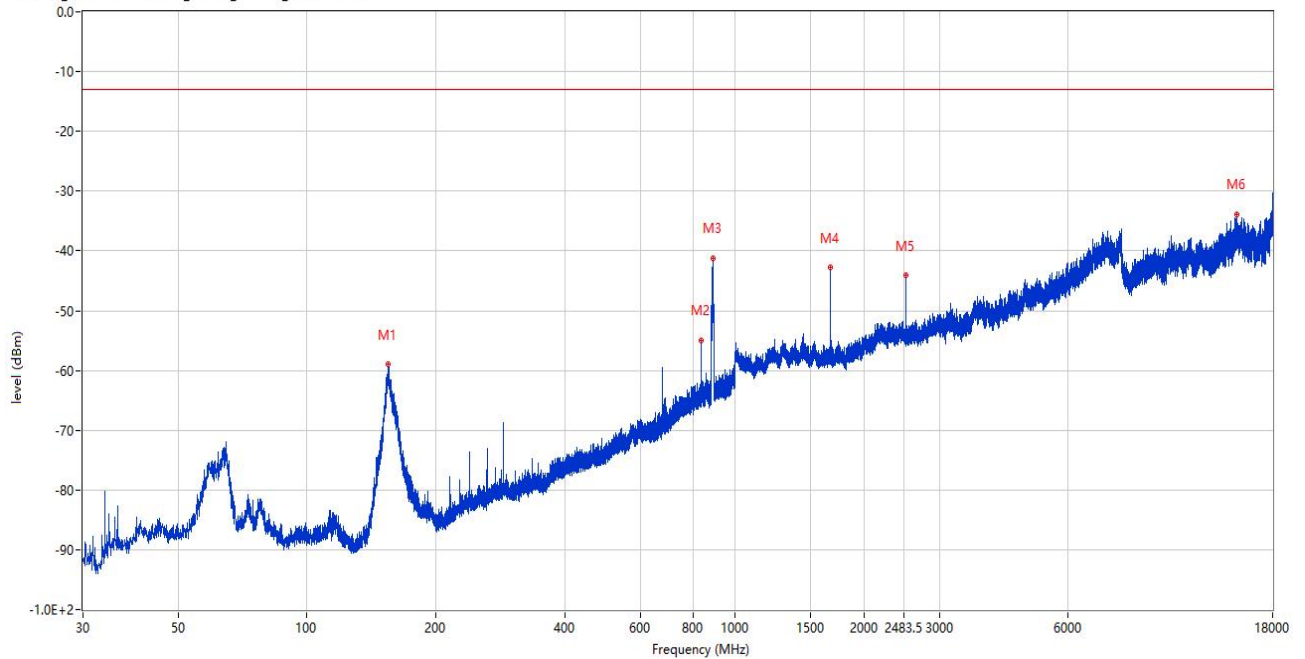


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
65.162	-75.49	-17.38	-13.0	62.49	270.00	Horizontal	Vertical	Pass
153.238	-58.28	-21.28	-13.0	45.28	313.00	Horizontal	Vertical	Pass
1959.800	-39.60	2.91	-13.0	26.60	98.00	Horizontal	Vertical	N/A
4742.250	-44.43	10.96	-13.0	31.43	26.00	Horizontal	Vertical	Pass
7906.500	-36.33	19.29	-13.0	23.33	283.00	Horizontal	Vertical	Pass
14814.500	-33.76	24.49	-13.0	20.76	274.00	Horizontal	Vertical	Pass

1.7 LTE Cat-M Band 26(part22)

Band:LTE B26(part22)

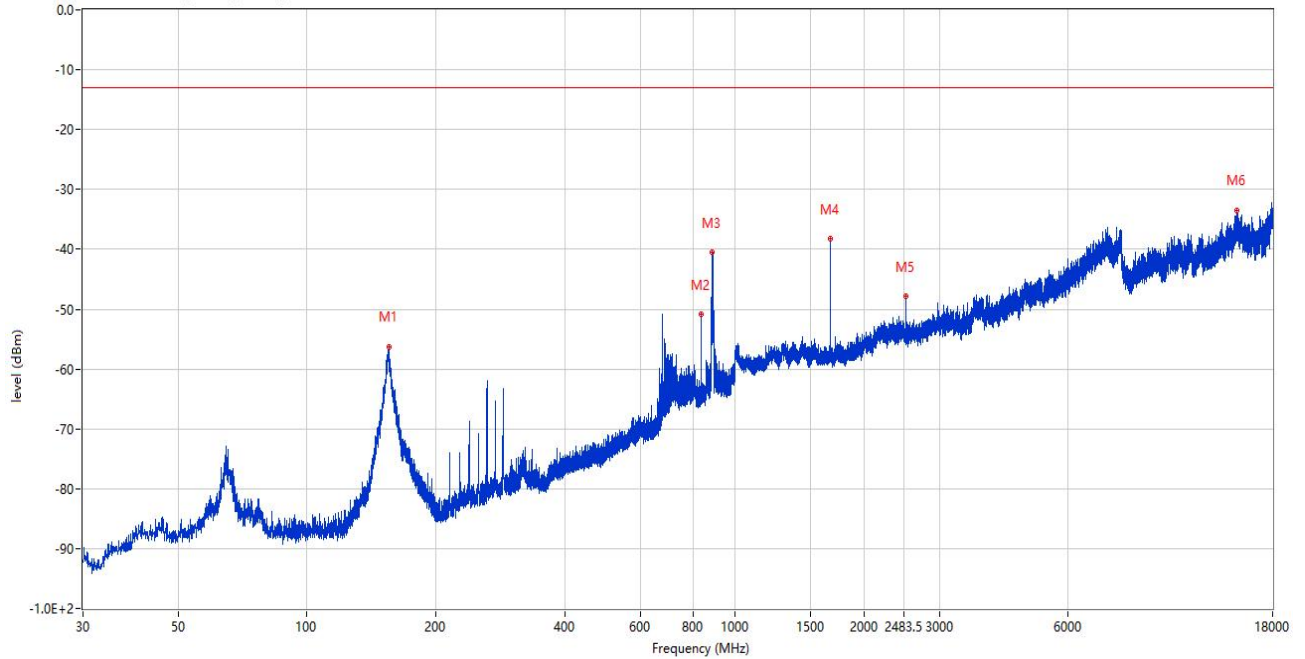
RSE (RF) _FCC PART22&24&27_LTE 26_814-849_30MHz-18GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
154.888	-59.04	-19.13	-13.0	46.04	260.00	Vertical	Vertical	Pass
835.052	-55.06	5.67	-13.0	42.06	240.00	Vertical	Vertical	N/A
886.801	-41.22	5.90	-13.0	28.22	202.00	Vertical	Vertical	N/A
1669.800	-42.77	-3.60	-13.0	29.77	116.00	Vertical	Vertical	Pass
2505.100	-44.15	0.58	-13.0	31.15	299.00	Vertical	Vertical	Pass
14831.362	-33.88	24.14	-13.0	20.88	11.00	Vertical	Vertical	Pass

Band:LTE B26(part22)

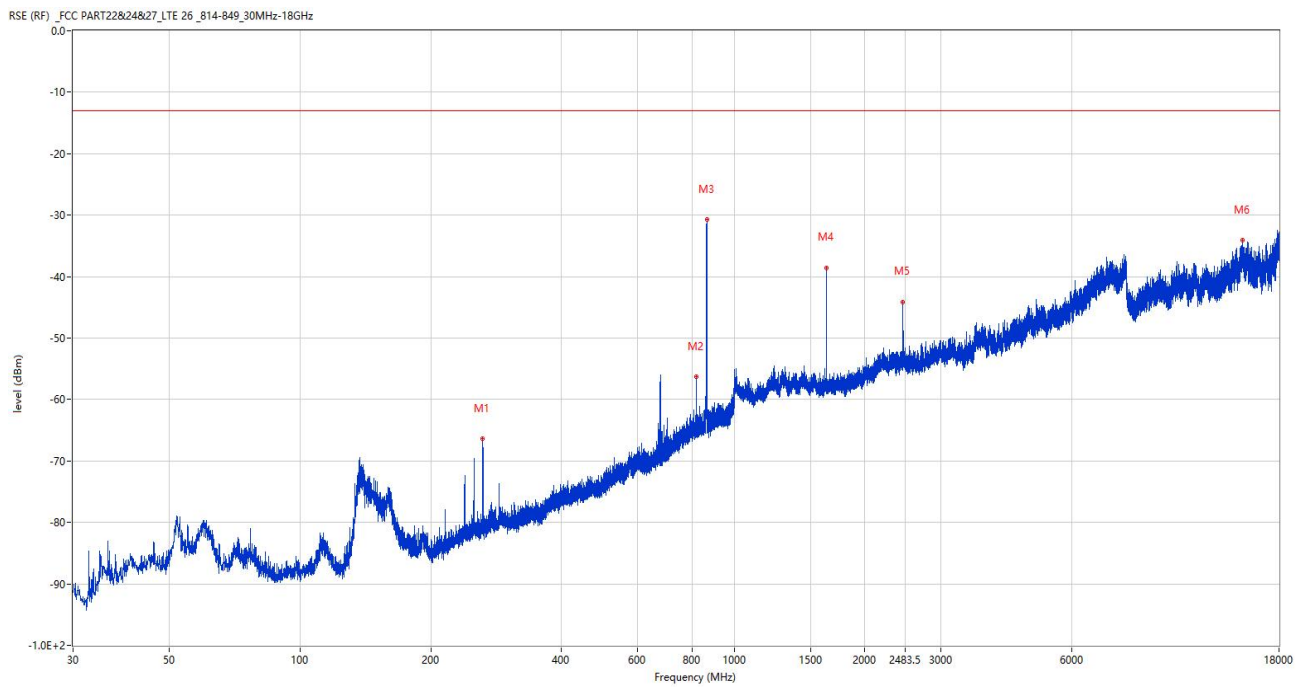
RSE (RF) _FCC PART22&24&27_LTE 26_814-849_30MHz-18GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
155.954	-56.38	-18.94	-13.0	43.38	131.00	Horizontal	Vertical	Pass
835.052	-50.87	5.67	-13.0	37.87	240.00	Horizontal	Vertical	N/A
883.309	-40.50	5.74	-13.0	27.50	18.00	Horizontal	Vertical	N/A
1670.100	-38.26	-3.60	-13.0	25.26	0.00	Horizontal	Vertical	Pass
2505.100	-47.91	0.58	-13.0	34.91	271.00	Horizontal	Vertical	Pass
14832.151	-33.54	24.11	-13.0	20.54	206.00	Horizontal	Vertical	Pass

1.8 LTE Cat-M Band 26(part90)

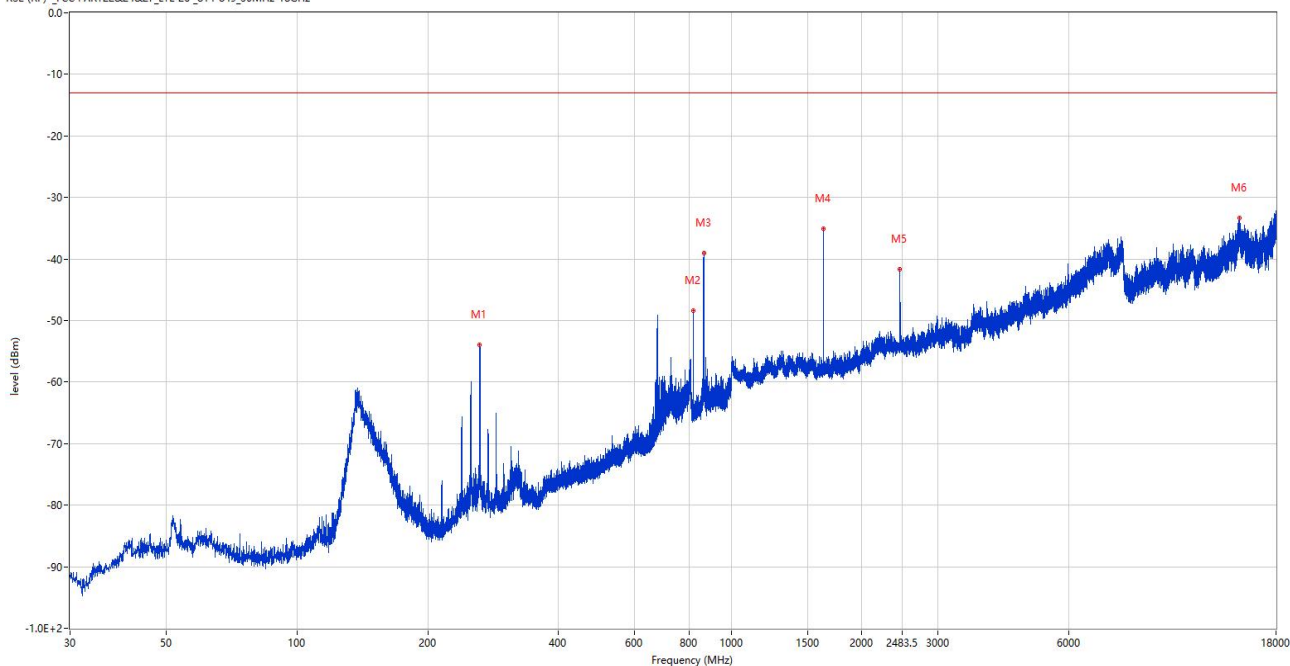
Band:LTE B26(part90)



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
263.625	-66.39	-11.19	-13.0	53.39	269.00	Vertical	Vertical	Pass
816.767	-56.35	5.15	-13.0	43.35	235.00	Vertical	Vertical	N/A
865.073	-30.72	5.53	-13.0	17.72	300.00	Vertical	Vertical	N/A
1633.700	-38.54	-3.77	-13.0	25.54	115.00	Vertical	Vertical	Pass
2450.400	-44.08	0.63	-13.0	31.08	271.00	Vertical	Vertical	Pass
14827.425	-34.14	24.29	-13.0	21.14	61.00	Vertical	Vertical	Pass

Band:LTE B26(part90)

RSE (RF) _FCC PART22&24&27_LTE 26_814-849_30MHz-18GHz

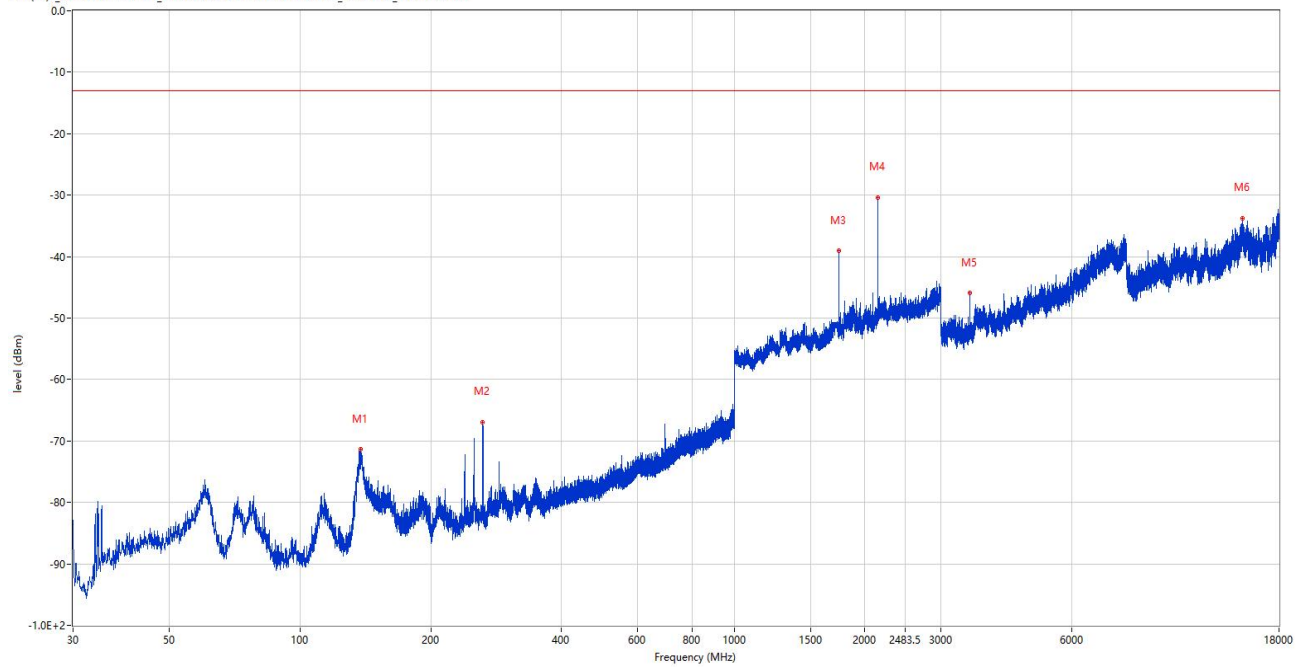


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
263.770	-53.96	-11.18	-13.0	40.96	0.00	Horizontal	Vertical	Pass
816.815	-48.36	5.15	-13.0	35.36	327.00	Horizontal	Vertical	N/A
865.267	-39.05	5.52	-13.0	26.05	12.00	Horizontal	Vertical	N/A
1633.600	-35.16	-3.78	-13.0	22.16	240.00	Horizontal	Vertical	Pass
2450.600	-41.68	0.63	-13.0	28.68	52.00	Horizontal	Vertical	Pass
14808.526	-33.37	24.42	-13.0	20.37	322.00	Horizontal	Vertical	Pass

1.9 LTE Cat-M Band 66

Band:LTE B66

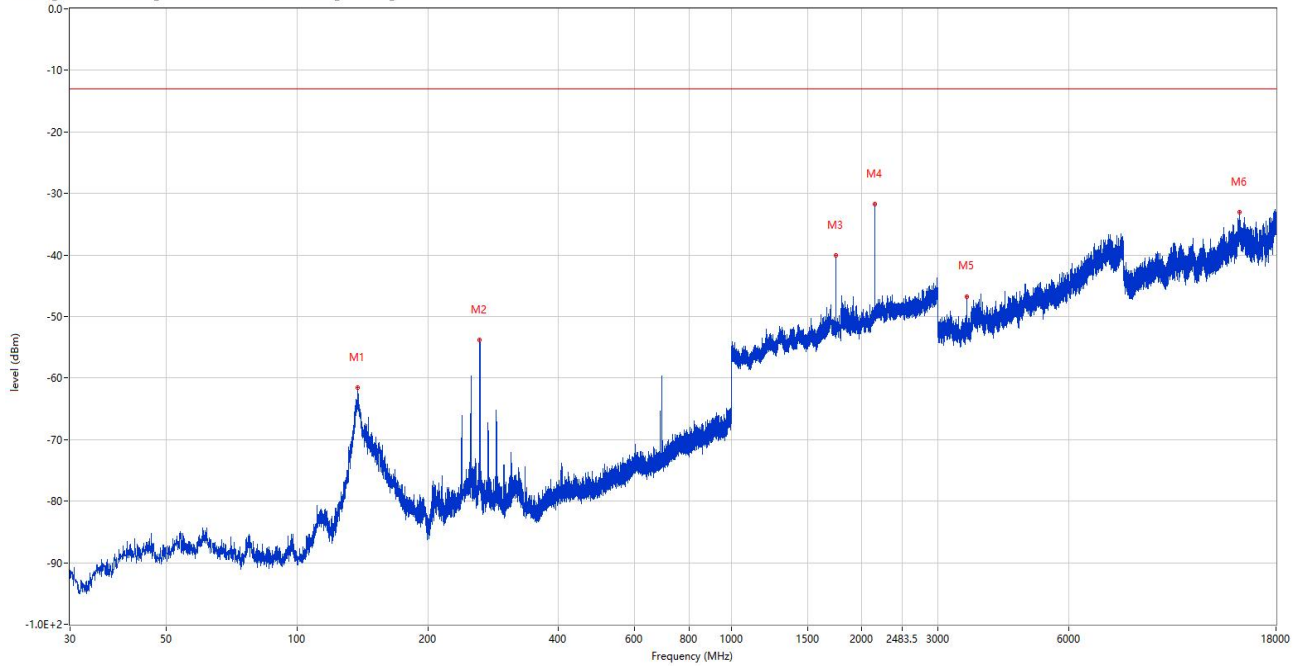
RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66_1710-1785_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
137.913	-71.40	-22.68	-13.0	58.40	26.00	Vertical	Vertical	Pass
263.770	-66.90	-13.87	-13.0	53.90	250.00	Vertical	Vertical	Pass
1742.700	-39.06	2.67	-13.0	26.06	76.00	Vertical	Vertical	N/A
2147.100	-30.36	4.58	-13.0	17.36	252.00	Vertical	Vertical	N/A
3485.500	-45.94	5.49	-13.0	32.94	150.00	Vertical	Vertical	Pass
14832.412	-33.76	24.11	-13.0	20.76	110.00	Vertical	Vertical	Pass

Band:LTE B66

RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66_1710-1785_30MHz-20GHz



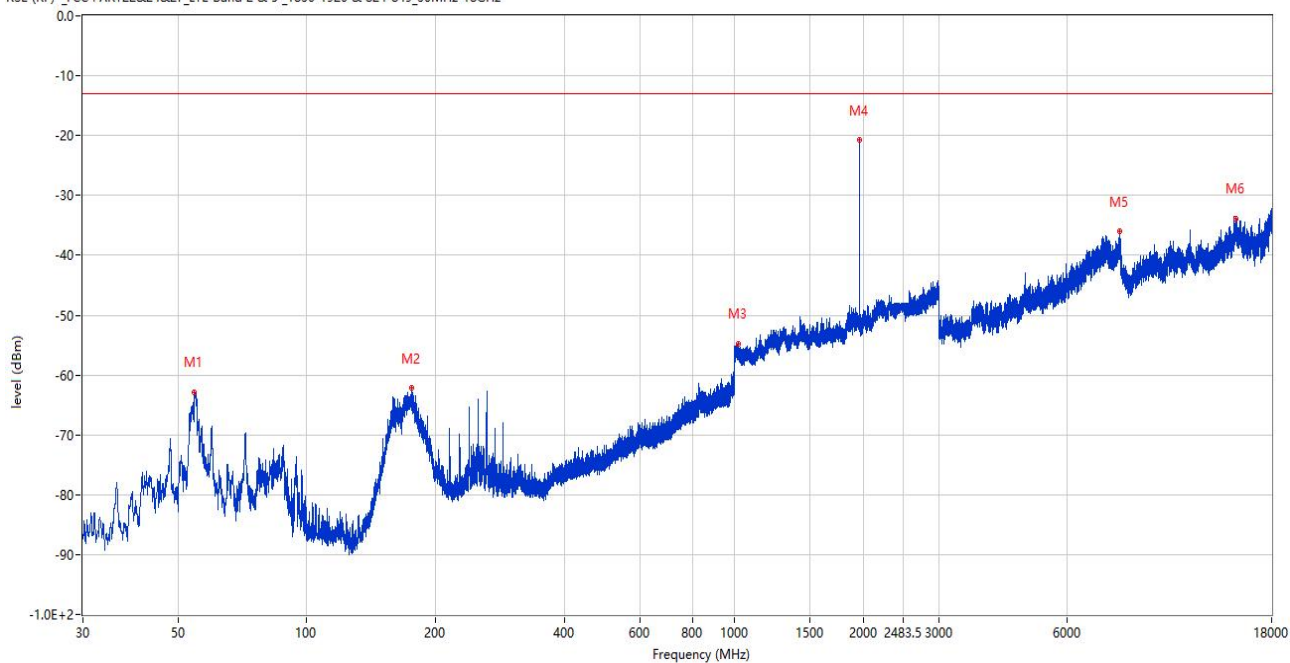
Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
137.961	-61.56	-22.68	-13.0	48.56	109.00	Horizontal	Vertical	Pass
263.625	-53.80	-13.88	-13.0	40.80	21.00	Horizontal	Vertical	Pass
1742.700	-40.09	2.67	-13.0	27.09	9.00	Horizontal	Vertical	N/A
2145.000	-31.70	4.50	-13.0	18.70	29.00	Horizontal	Vertical	N/A
3485.750	-46.73	5.50	-13.0	33.73	65.00	Horizontal	Vertical	Pass
14843.963	-33.03	23.69	-13.0	20.03	150.00	Horizontal	Vertical	Pass

2 LTE NB-IoT

2.1 LTE NB-IoT Band 2

Band:LTE B2

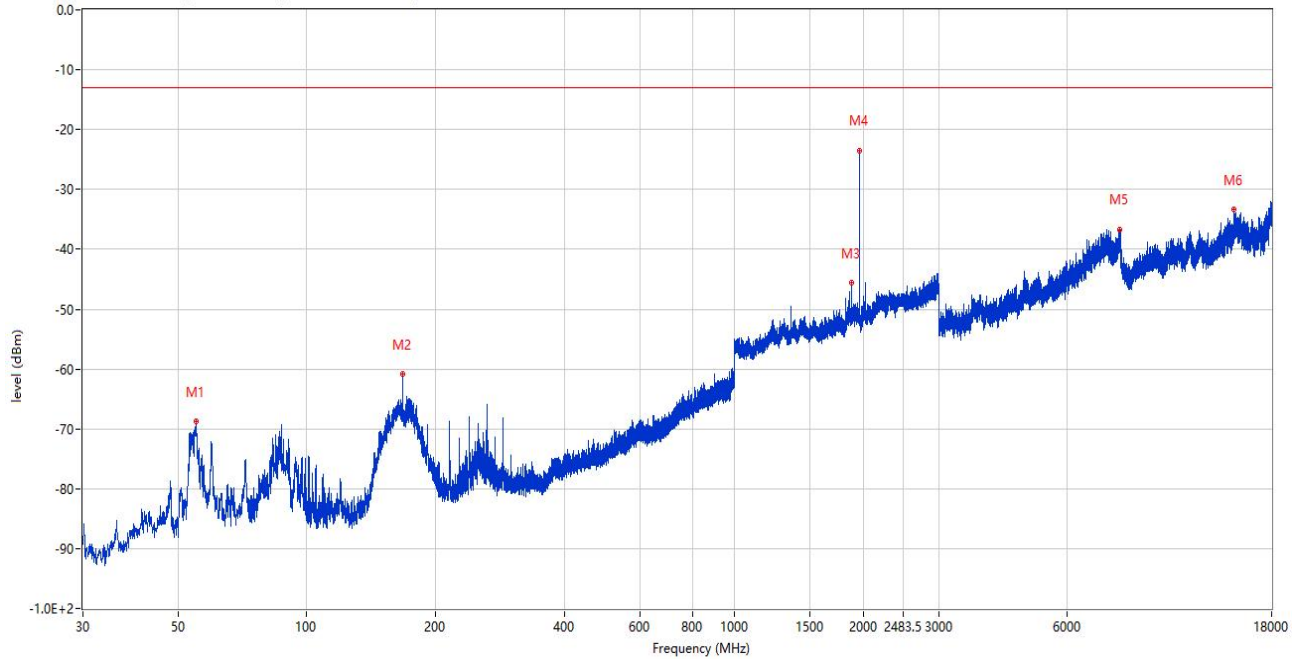
RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
54.687	-62.99	-16.54	-13.0	49.99	102.00	Vertical	Horizontal	Pass
175.548	-62.23	-16.71	-13.0	49.23	323.00	Vertical	Horizontal	Pass
1019.900	-54.72	-1.33	-13.0	41.72	222.00	Vertical	Horizontal	Pass
1960.800	-20.64	2.84	-13.0	7.64	183.00	Vertical	Horizontal	N/A
7957.000	-36.01	19.77	-13.0	23.01	358.00	Vertical	Horizontal	Pass
14834.500	-33.82	24.03	-13.0	20.82	342.00	Vertical	Horizontal	Pass

Band:LTE B2

RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz

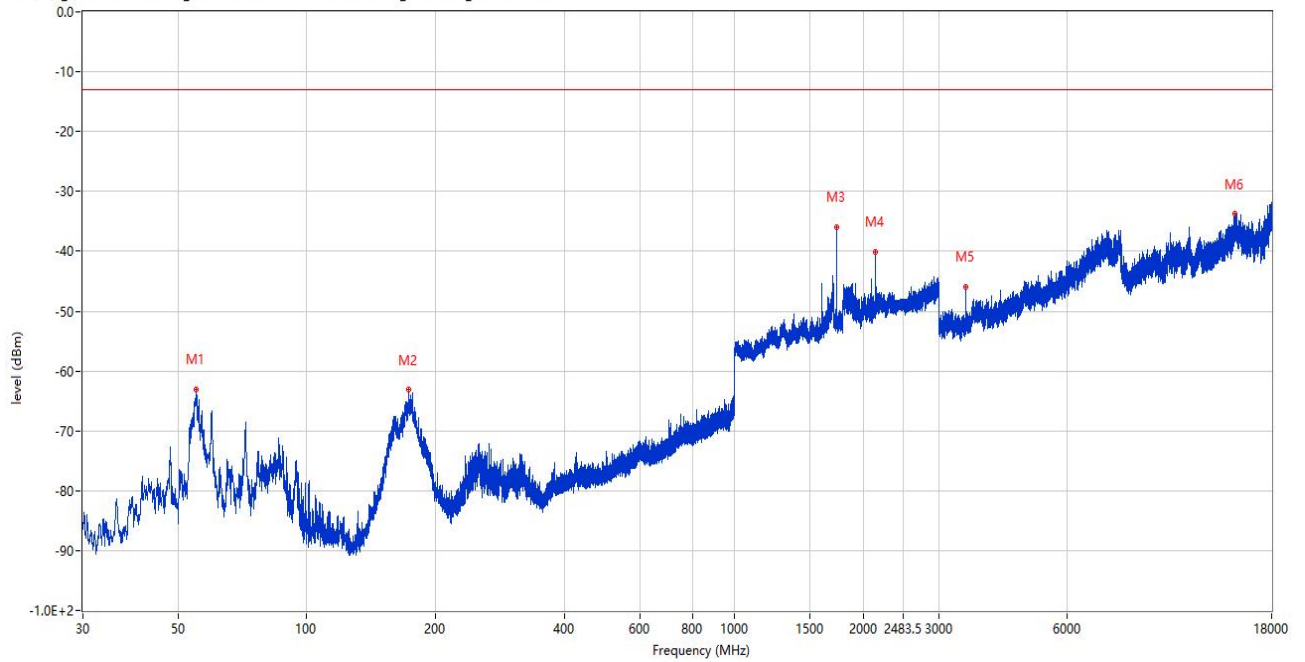


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
55.123	-68.68	-16.51	-13.0	55.68	177.00	Horizontal	Horizontal	Pass
167.934	-60.82	-17.47	-13.0	47.82	262.00	Horizontal	Horizontal	Pass
1880.500	-45.61	3.42	-13.0	32.61	174.00	Horizontal	Horizontal	N/A
1960.900	-23.50	2.83	-13.0	10.50	178.00	Horizontal	Horizontal	N/A
7946.750	-36.67	19.60	-13.0	23.67	60.00	Horizontal	Horizontal	Pass
14710.500	-33.38	23.48	-13.0	20.38	342.00	Horizontal	Horizontal	Pass

2.2 LTE NB-IoT Band 4

Band:LTE B4

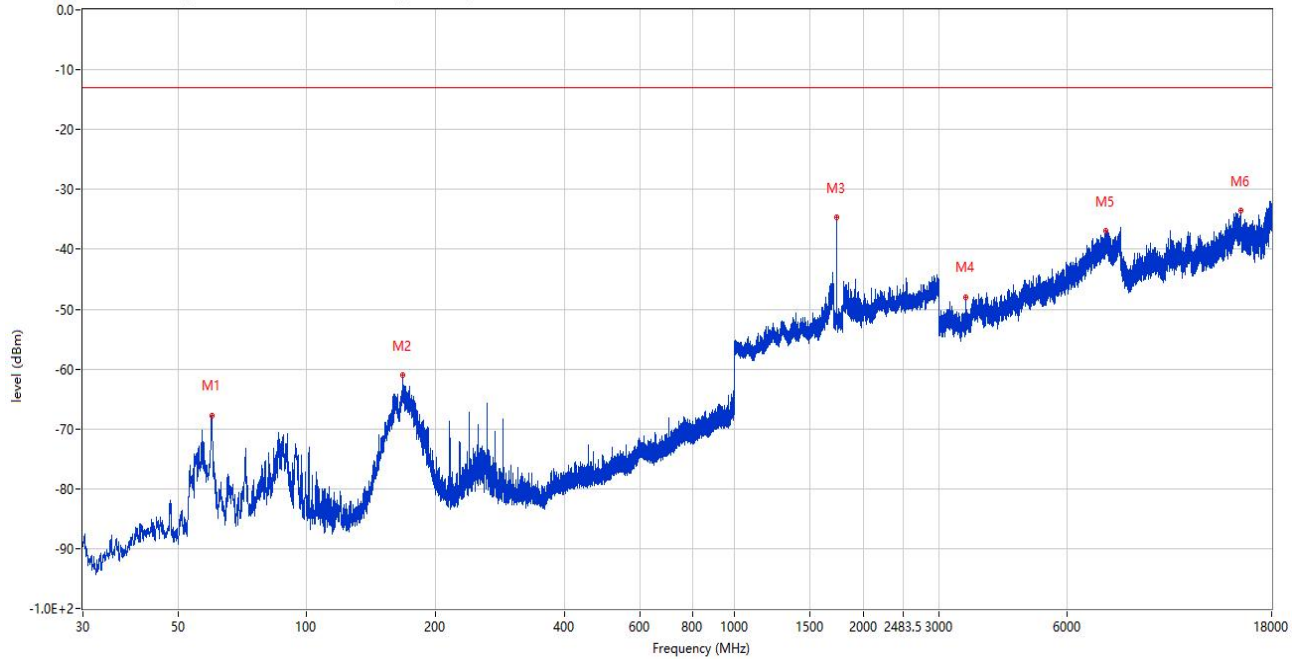
RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66_1710-1785_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
55.269	-63.05	-17.37	-13.0	50.05	34.00	Vertical	Horizontal	Pass
173.366	-63.16	-18.63	-13.0	50.16	131.00	Vertical	Horizontal	Pass
1733.300	-43.54	2.77	-13.0	30.54	360.00	Vertical	Horizontal	N/A
2133.600	-40.12	4.04	-13.0	27.12	148.00	Vertical	Horizontal	N/A
3465.750	-45.95	4.94	-13.0	32.95	40.00	Vertical	Horizontal	Pass
14809.050	-33.68	24.43	-13.0	20.68	96.00	Vertical	Horizontal	Pass

Band:LTE B4

RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66 _1710-1785_30MHz-20GHz

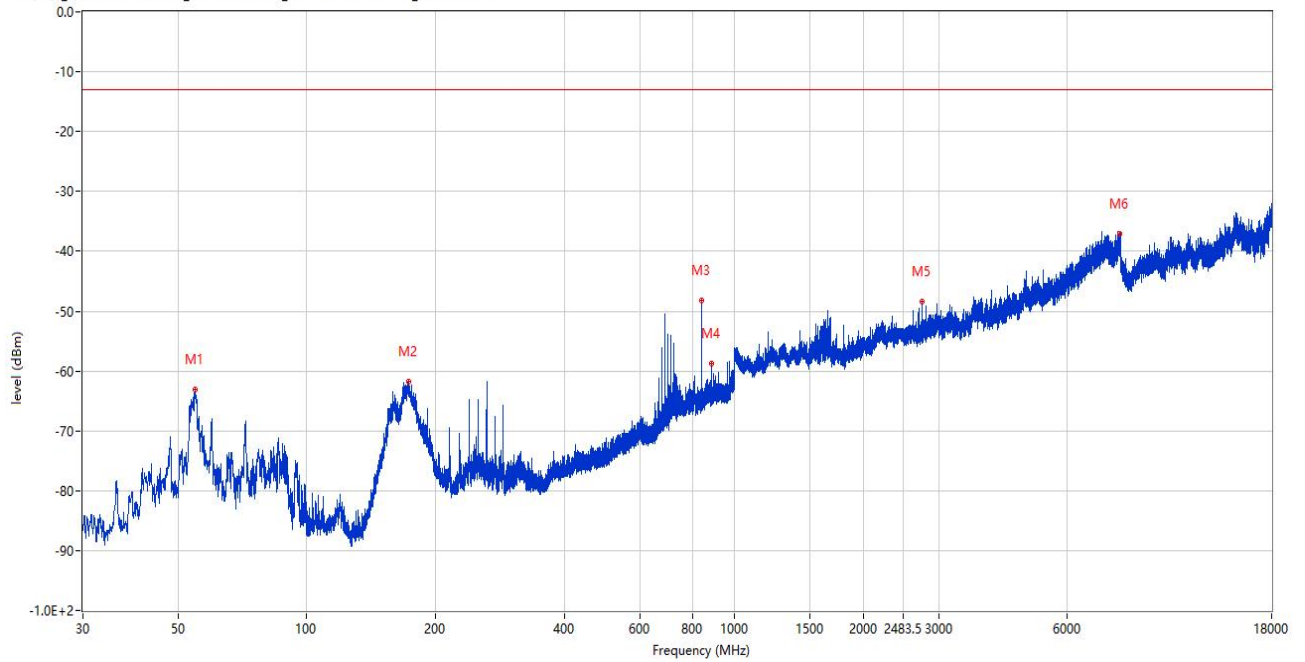


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
60.022	-67.88	-16.64	-13.0	54.88	205.00	Horizontal	Horizontal	Pass
167.934	-61.09	-19.10	-13.0	48.09	259.00	Horizontal	Horizontal	Pass
1733.500	-34.69	2.77	-13.0	21.69	184.00	Horizontal	Horizontal	N/A
3465.750	-48.04	4.94	-13.0	35.04	356.00	Horizontal	Horizontal	Pass
7387.500	-36.88	18.46	-13.0	23.88	178.00	Horizontal	Horizontal	Pass
15252.412	-33.60	22.81	-13.0	20.60	239.00	Horizontal	Horizontal	Pass

2.3 LTE NB-IoT Band 5

Band:LTE B5

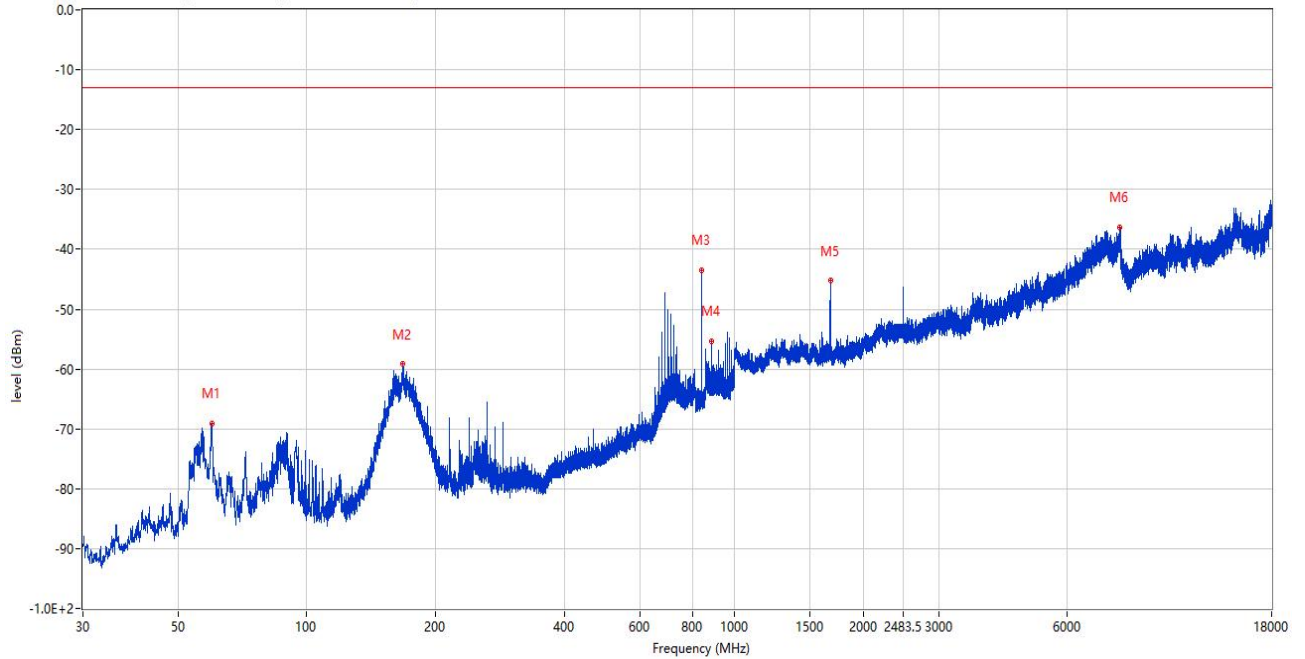
RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
54.832	-63.04	-16.53	-13.0	50.04	204.00	Vertical	Horizontal	Pass
173.124	-61.68	-16.98	-13.0	48.68	279.00	Vertical	Horizontal	Pass
836.604	-48.16	5.00	-13.0	35.16	55.00	Vertical	Horizontal	N/A
881.514	-58.72	5.07	-13.0	45.72	117.00	Vertical	Horizontal	N/A
2743.200	-48.44	1.45	-13.0	35.44	93.00	Vertical	Horizontal	Pass
7958.500	-37.07	19.78	-13.0	24.07	273.00	Vertical	Horizontal	Pass

Band:LTE B5

RSE (RF) _FCC PART22&24&27_LTE Band 2 & 5 _1830-1920 & 824-849_30MHz-18GHz

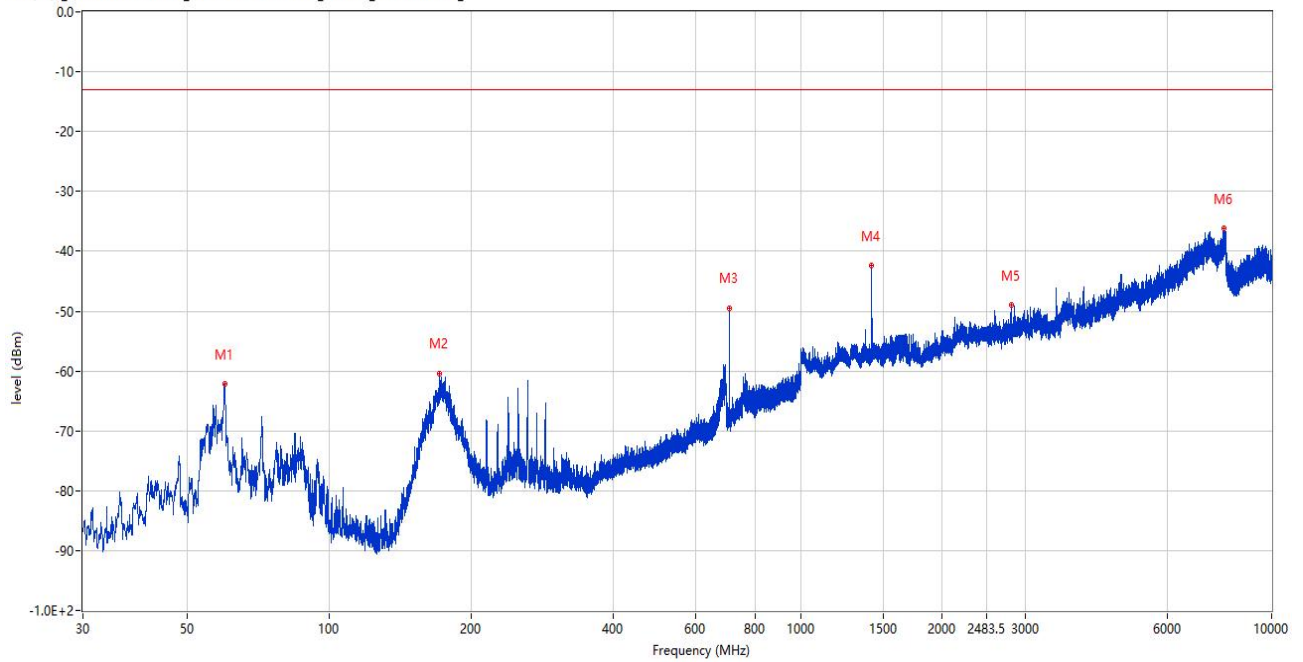


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.973	-69.04	-15.73	-13.0	56.04	208.00	Horizontal	Horizontal	Pass
167.837	-59.16	-17.48	-13.0	46.16	277.00	Horizontal	Horizontal	Pass
836.604	-43.51	5.00	-13.0	30.51	29.00	Horizontal	Horizontal	N/A
881.466	-55.37	5.08	-13.0	42.37	274.00	Horizontal	Horizontal	N/A
1674.000	-46.23	-3.70	-13.0	33.23	115.00	Horizontal	Horizontal	Pass
7939.000	-36.36	19.32	-13.0	23.36	237.00	Horizontal	Horizontal	Pass

2.4 LTE NB-IoT Band 12

Band:LTE B12

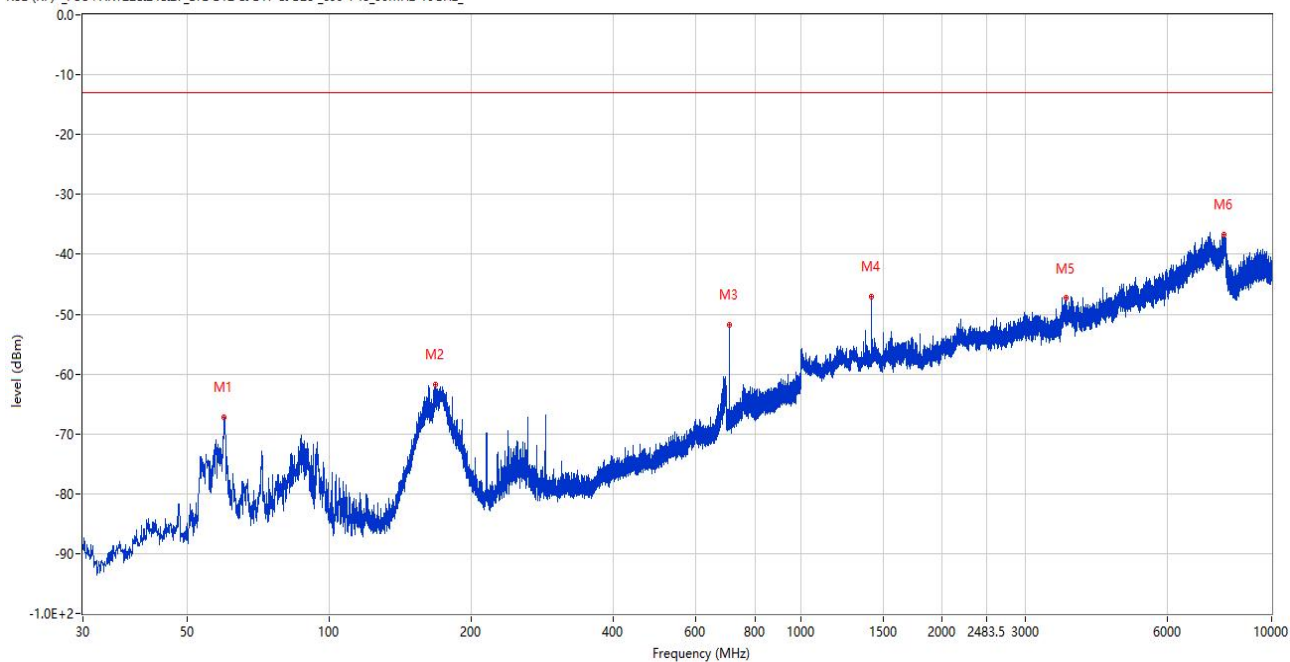
RSE (RF) _FCC PART22&24&27_LTE B12 & B17 & B28_699-748_30MHz-10GHz_



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
60.022	-62.18	-15.67	-13.0	49.18	91.00	Vertical	Horizontal	Pass
171.184	-60.38	-17.09	-13.0	47.38	280.00	Vertical	Horizontal	Pass
707.448	-49.45	2.29	-13.0	36.45	127.00	Vertical	Horizontal	N/A
1415.600	-42.45	-3.51	-13.0	29.45	137.00	Vertical	Horizontal	Pass
2797.400	-49.06	2.31	-13.0	36.06	112.00	Vertical	Horizontal	Pass
7906.000	-36.23	19.28	-13.0	23.23	218.00	Vertical	Horizontal	Pass

Band:LTE B12

RSE (RF) _FCC PART22&24&27_LTE B12 & B17 & B28 _699-748_30MHz-10GHz_

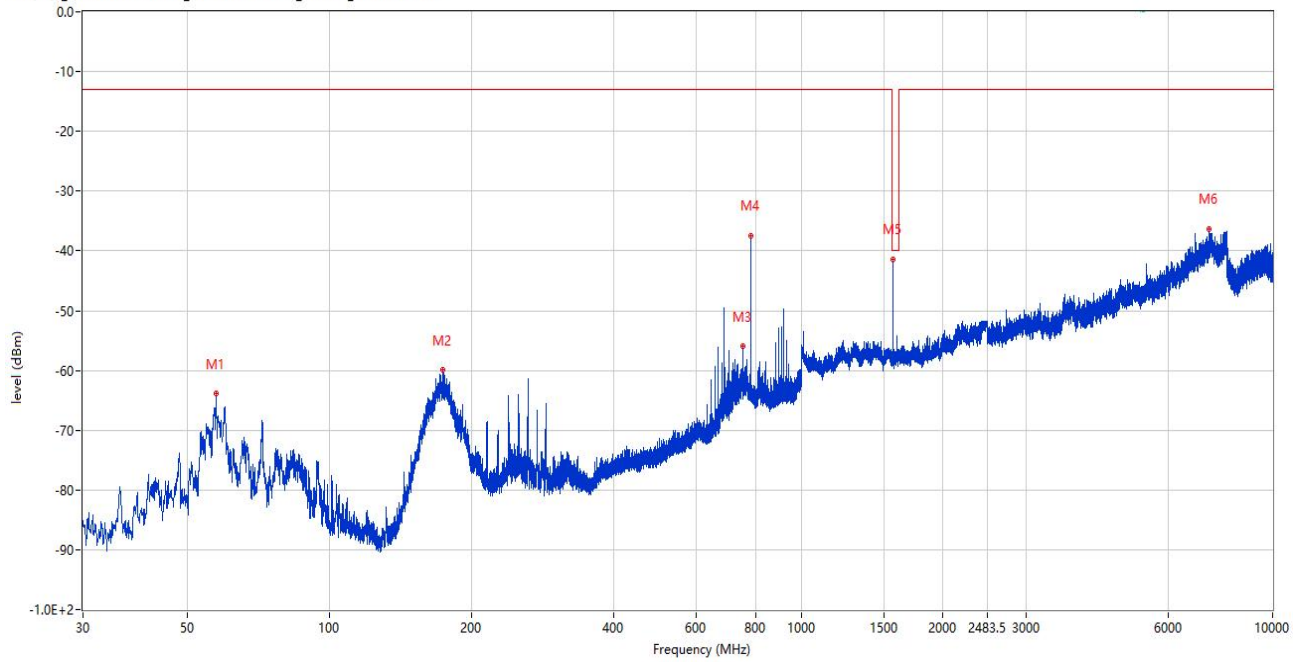


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.876	-67.19	-15.73	-13.0	54.19	176.00	Horizontal	Horizontal	Pass
167.643	-61.74	-17.38	-13.0	48.74	294.00	Horizontal	Horizontal	Pass
707.448	-51.71	2.29	-13.0	38.71	57.00	Horizontal	Horizontal	N/A
1416.000	-47.01	-3.49	-13.0	34.01	112.00	Horizontal	Horizontal	Pass
3662.500	-47.33	8.29	-13.0	34.33	288.00	Horizontal	Horizontal	Pass
7909.250	-36.69	19.34	-13.0	23.69	87.00	Horizontal	Horizontal	Pass

2.5 LTE NB-IoT Band 13

Band:LTE B13

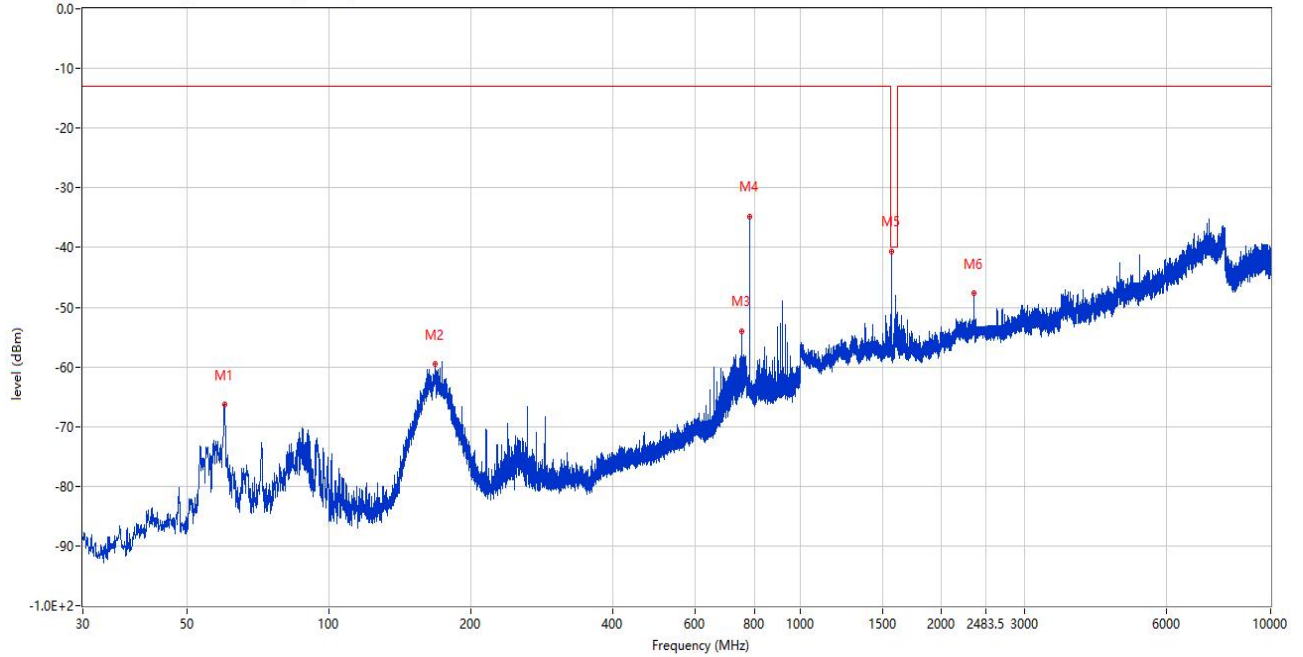
RSE (RF) _FCC PART22&24&27_LTE Band 13 & 14 _777-803_30MHz-10GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
57.499	-63.90	-16.55	-13.0	50.90	113.00	Vertical	Horizontal	Pass
174.239	-59.92	-16.78	-13.0	46.92	269.00	Vertical	Horizontal	Pass
751.001	-55.87	3.36	-13.0	42.87	246.00	Vertical	Horizontal	N/A
782.089	-37.46	6.36	-13.0	24.46	83.00	Vertical	Horizontal	N/A
1565.000	-41.42	-4.14	-40.0	1.42	106.00	Vertical	Horizontal	Pass
7346.750	-36.29	17.77	-13.0	23.29	44.00	Vertical	Horizontal	Pass

Band:LTE B13

RSE (RF) _FCC PART22&24&27_LTE Band 13 & 14 _777-803_30MHz-10GHz

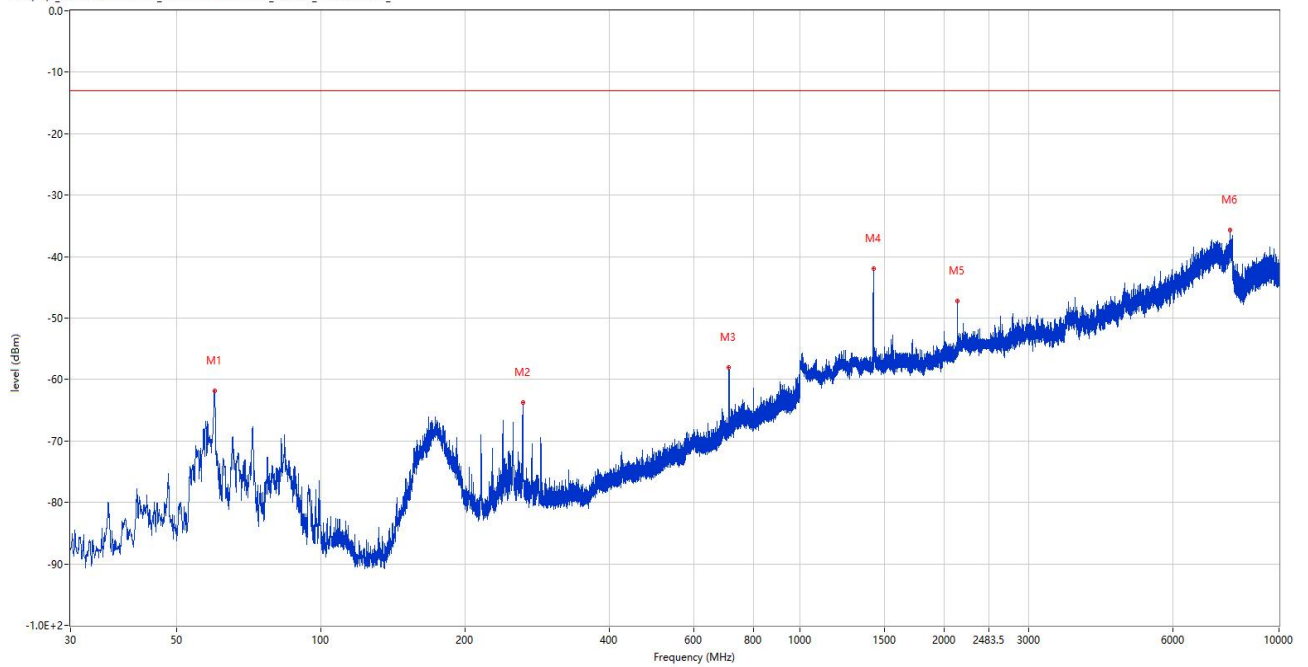


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.925	-66.29	-15.75	-13.0	53.29	178.00	Horizontal	Horizontal	Pass
167.788	-59.55	-17.45	-13.0	46.55	272.00	Horizontal	Horizontal	Pass
751.001	-54.04	3.36	-13.0	41.04	309.00	Horizontal	Horizontal	N/A
782.089	-34.85	6.36	-13.0	21.85	25.00	Horizontal	Horizontal	N/A
1565.100	-42.19	-4.15	-40.0	2.19	104.00	Horizontal	Horizontal	Pass
2347.100	-47.66	1.09	-13.0	34.66	72.00	Horizontal	Horizontal	Pass

2.6 LTE NB-IoT Band 17

Band:LTE B17

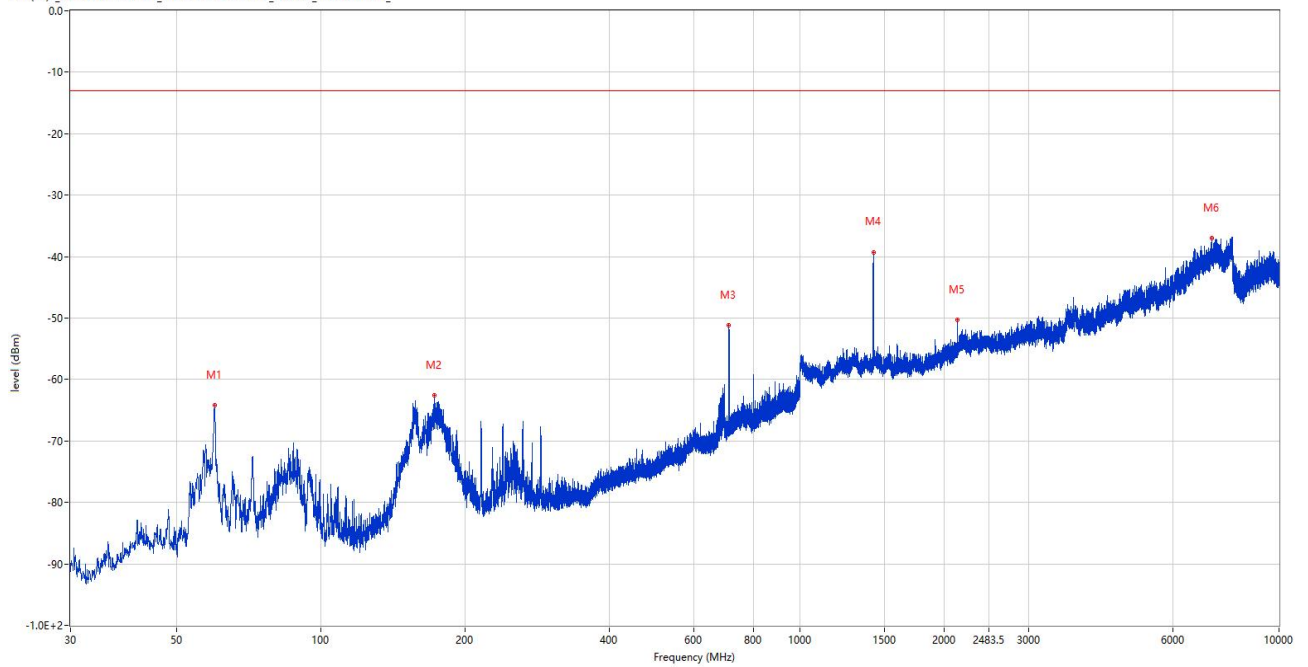
RSE (RF) _FCC PART22&24&27_LTE B12 & B17 & B28 _699-748_30MHz-10GHz_



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.925	-61.87	-15.71	-13.0	48.87	136.00	Vertical	Horizontal	Pass
263.867	-63.78	-11.42	-13.0	50.78	96.00	Vertical	Horizontal	Pass
710.989	-58.11	2.46	-13.0	45.11	197.00	Vertical	Horizontal	N/A
1422.800	-41.92	-3.13	-13.0	28.92	55.00	Vertical	Horizontal	Pass
2134.400	-47.27	-0.76	-13.0	34.27	287.00	Vertical	Horizontal	Pass
7901.500	-35.66	19.19	-13.0	22.66	153.00	Vertical	Horizontal	Pass

Band:LTE B17

RSE (RF) _FCC PART22&24&27_LTE B12 & B17 & B28 _699-748_30MHz-10GHz_

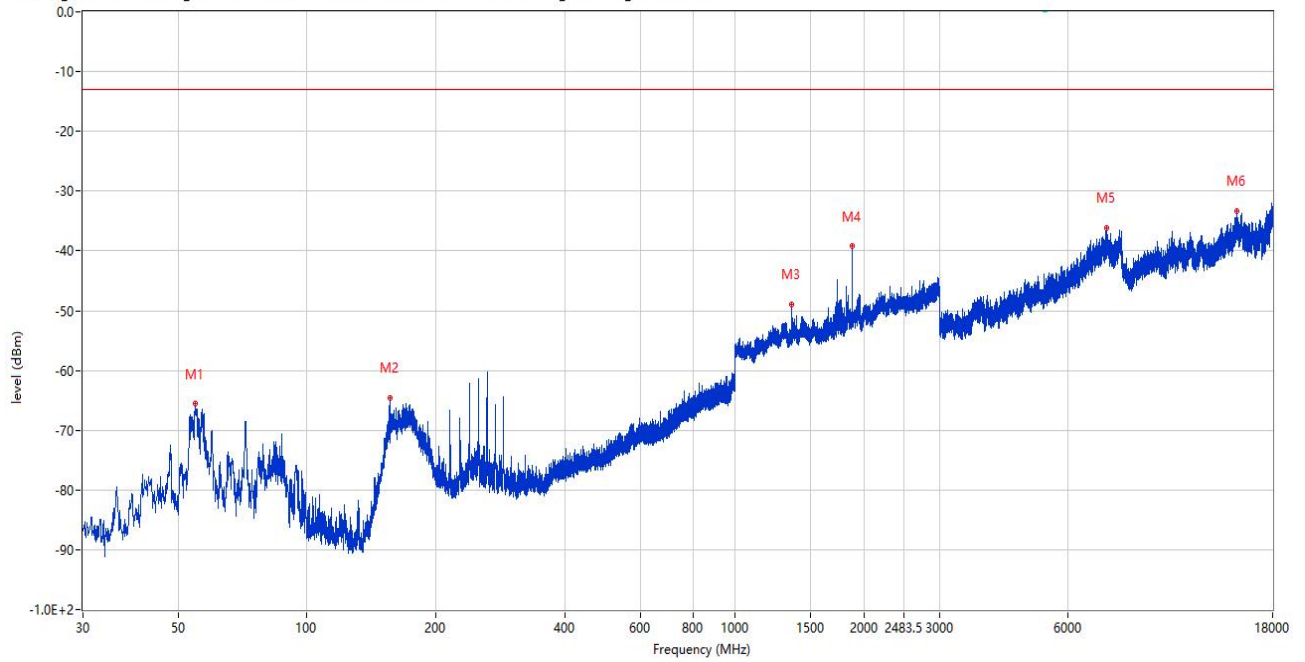


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
60.022	-64.18	-15.67	-13.0	51.18	217.00	Horizontal	Horizontal	Pass
172.736	-62.53	-16.90	-13.0	49.53	116.00	Horizontal	Horizontal	Pass
711.037	-51.20	2.46	-13.0	38.20	132.00	Horizontal	Horizontal	N/A
1422.600	-39.27	-3.15	-13.0	26.27	132.00	Horizontal	Horizontal	Pass
2133.900	-50.32	-0.78	-13.0	37.32	90.00	Horizontal	Horizontal	Pass
7238.250	-37.00	18.05	-13.0	24.00	246.00	Horizontal	Horizontal	Pass

2.7 LTE NB-IoT Band 25

Band:LTE B25

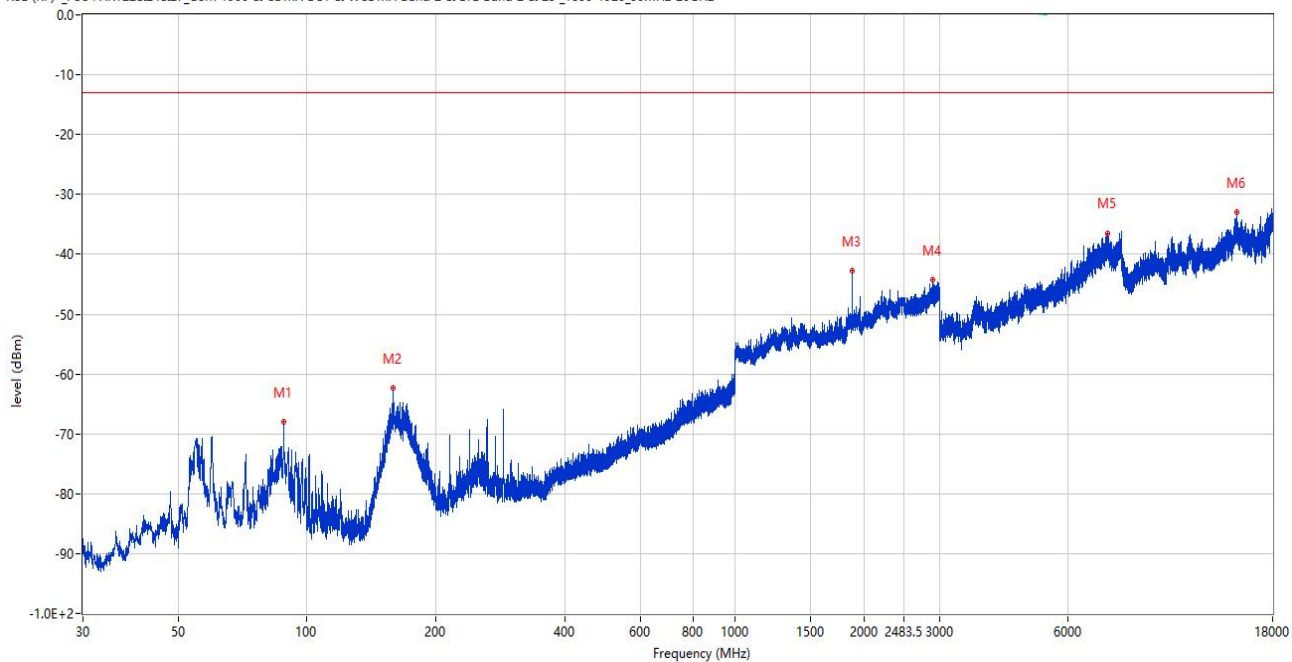
RSE (RF) _FCC PART22&24&27_GSM 1900 & CDMA BC1 & WCDMA Band 2 & LTE Band 2 & 25_1830-1920_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
54.832	-65.60	-16.53	-13.0	52.60	102.00	Vertical	Horizontal	Pass
156.052	-64.52	-19.22	-13.0	51.52	225.00	Vertical	Horizontal	Pass
1357.900	-48.99	-0.03	-13.0	35.99	295.00	Vertical	Horizontal	Pass
1880.900	-39.11	3.42	-13.0	26.11	283.00	Vertical	Horizontal	N/A
7388.500	-36.15	18.46	-13.0	23.15	147.00	Vertical	Horizontal	Pass
14822.500	-33.29	24.46	-13.0	20.29	6.00	Vertical	Horizontal	Pass

Band:LTE B25

RSE (RF) _FCC PART22&24&27_GSM 1900 & CDMA BC1 & WCDMA Band 2 & LTE Band 2 & 25_1830-1920_30MHz-20GHz

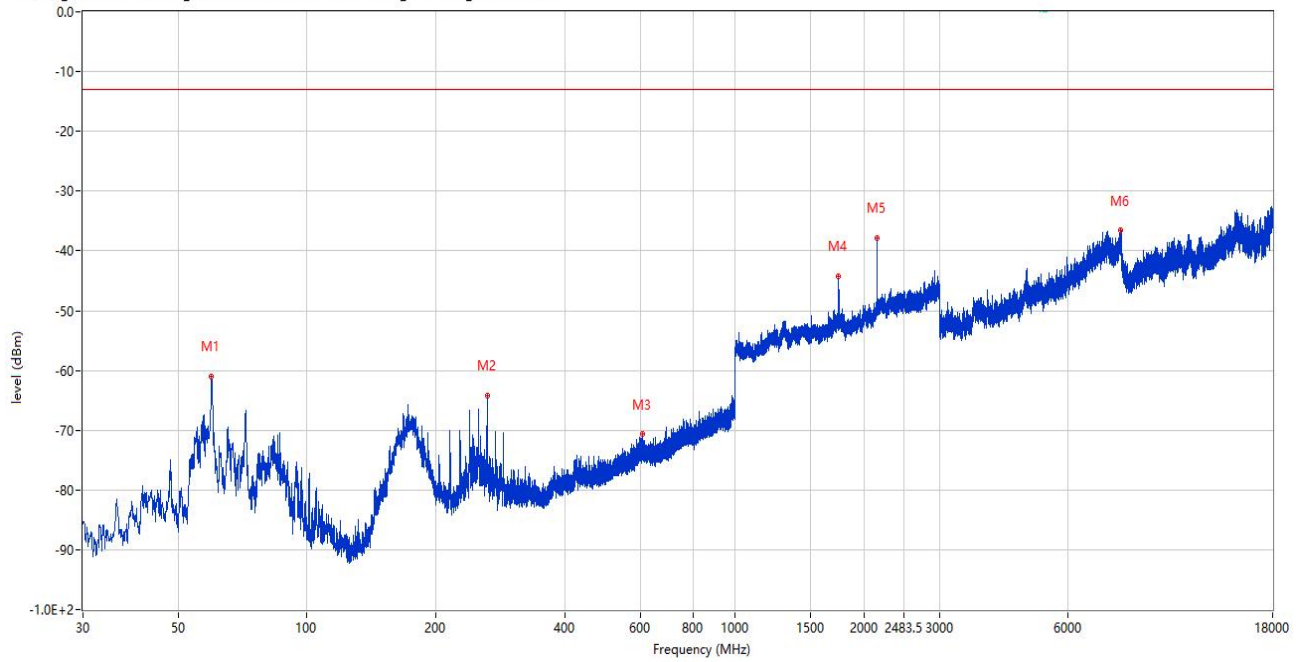


Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
88.297	-68.05	-18.68	-13.0	55.05	156.00	Horizontal	Horizontal	Pass
159.156	-62.37	-18.61	-13.0	49.37	308.00	Horizontal	Horizontal	Pass
1880.800	-42.81	3.42	-13.0	29.81	41.00	Horizontal	Horizontal	N/A
2900.300	-44.31	9.44	-13.0	31.31	132.00	Horizontal	Horizontal	Pass
7396.750	-36.59	18.78	-13.0	23.59	165.00	Horizontal	Horizontal	Pass
14837.000	-33.96	23.94	-13.0	20.96	11.00	Horizontal	Horizontal	Pass

2.8 LTE NB-IoT Band 66

Band:LTE B66

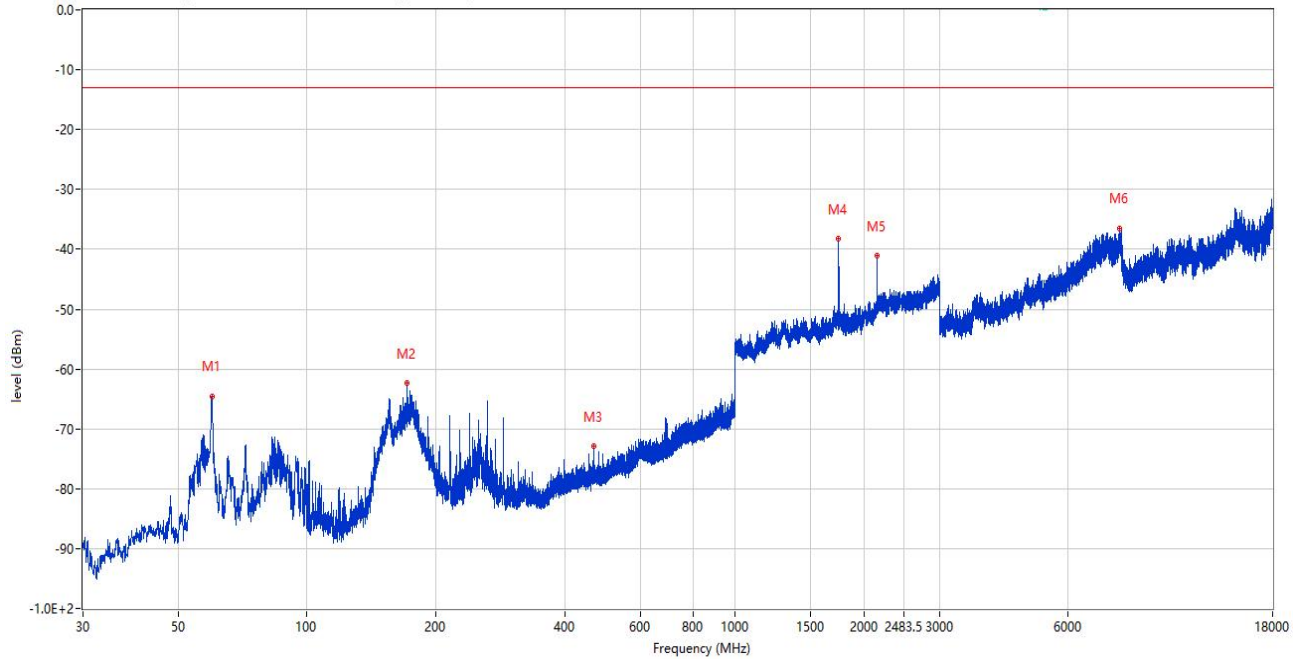
RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66_1710-1785_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.876	-60.93	-16.70	-13.0	47.93	116.00	Vertical	Horizontal	Pass
263.770	-64.14	-13.87	-13.0	51.14	41.00	Vertical	Horizontal	Pass
607.005	-70.68	-4.09	-13.0	57.68	142.00	Vertical	Horizontal	Pass
1745.700	-44.26	2.64	-13.0	31.26	317.00	Vertical	Horizontal	N/A
2145.900	-37.91	4.54	-13.0	24.91	284.00	Vertical	Horizontal	N/A
7947.000	-36.61	19.61	-13.0	23.61	282.00	Vertical	Horizontal	Pass

Band:LTE B66

RSE (RF) _FCC PART22&24&27_WCDMA Band 4 & LTE Band 4 & 66_1710-1785_30MHz-20GHz



Frequency (MHz)	Result (dBm)	Factor (dB)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
59.973	-64.56	-16.66	-13.0	51.56	200.00	Horizontal	Horizontal	Pass
170.941	-62.41	-18.90	-13.0	49.41	125.00	Horizontal	Horizontal	Pass
468.004	-72.97	-8.43	-13.0	59.97	232.00	Horizontal	Horizontal	Pass
1745.800	-38.26	2.64	-13.0	25.26	192.00	Horizontal	Horizontal	N/A
2145.900	-41.07	4.54	-13.0	28.07	247.00	Horizontal	Horizontal	N/A
7889.750	-36.57	18.93	-13.0	23.57	123.00	Horizontal	Horizontal	Pass