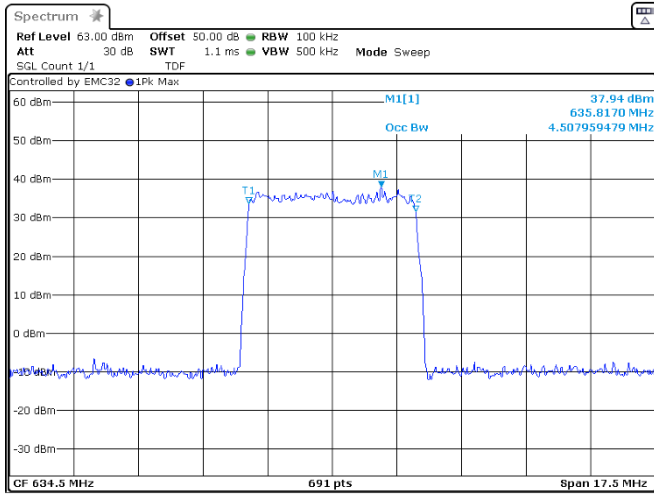
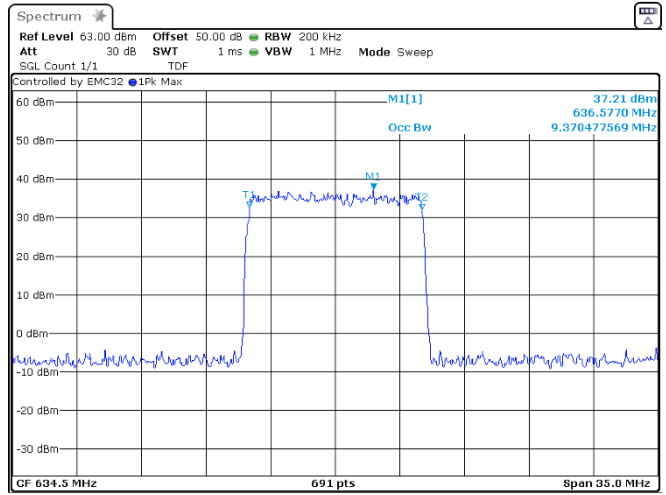


Section 8
Test name
Specification

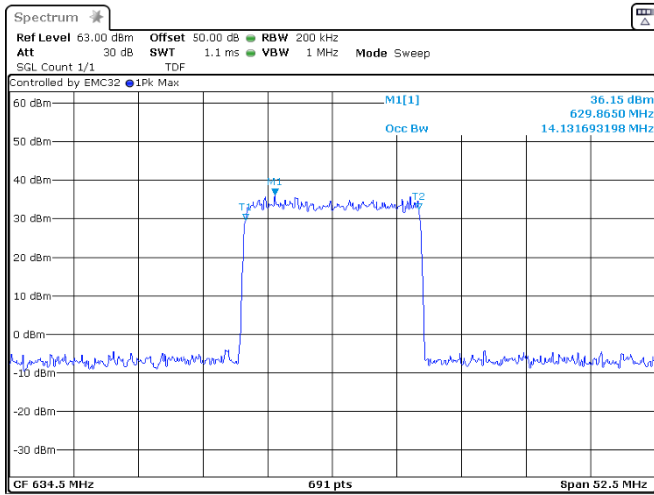
Testing data
 FCC §2.1049(h) 99% Occupied Bandwidth
 FCC Part 27



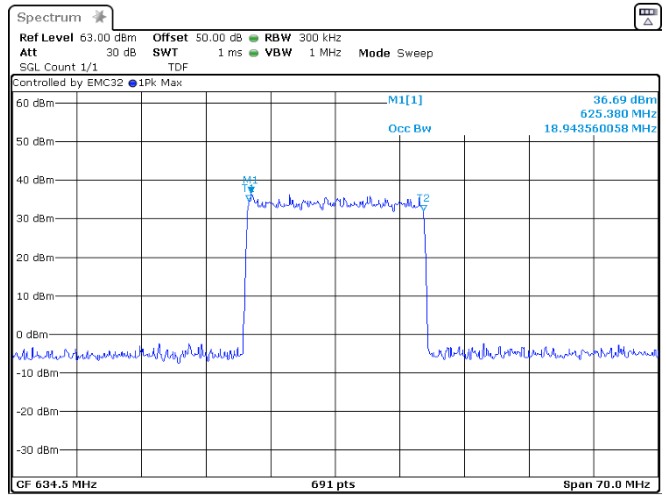
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 5MHz, MOD: 64QAM



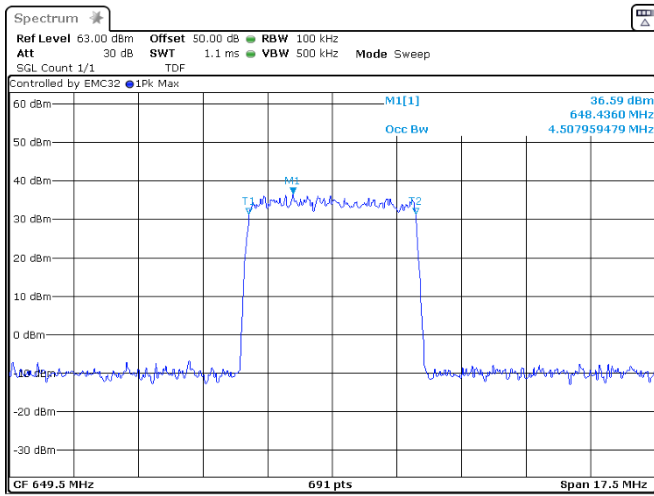
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 10MHz, MOD: 64QAM



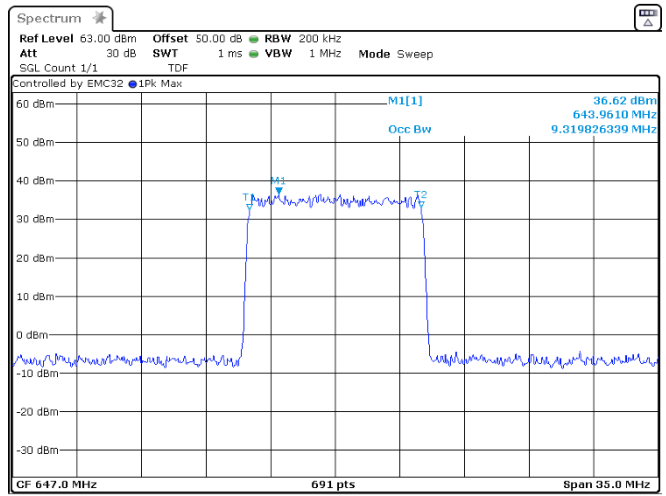
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 15MHz, MOD: 64QAM



Occupied bandwidth (99 %), TX 634.5 MHz, BW: 20MHz, MOD: 64QAM



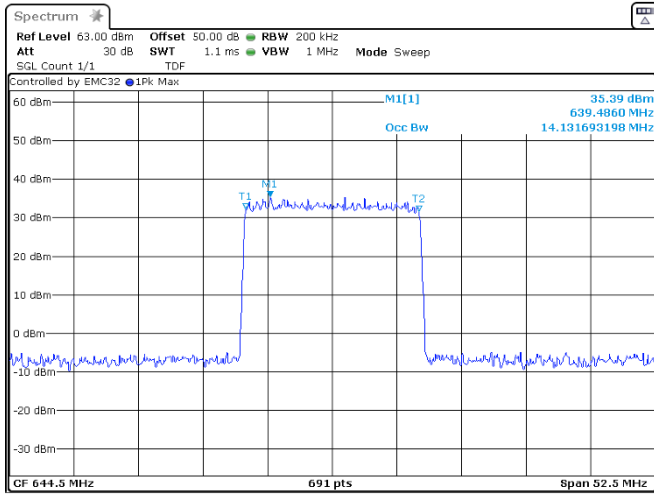
Occupied bandwidth (99 %), TX 649.5 MHz, BW: 5MHz, MOD: 64QAM



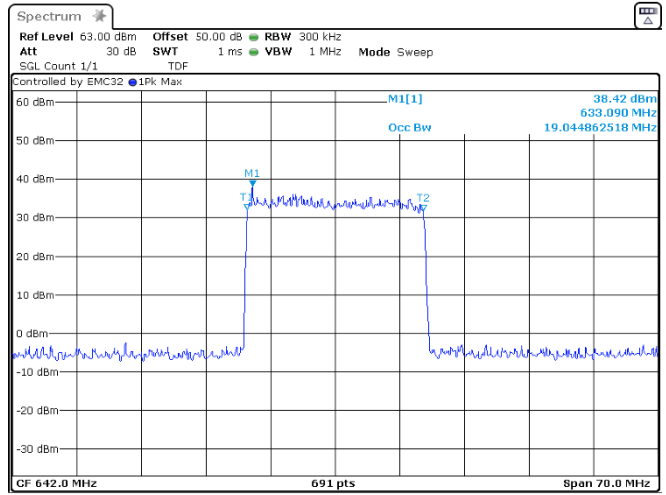
Occupied bandwidth (99 %), TX 647 MHz, BW: 10MHz, MOD: 64QAM

Section 8
Test name
Specification

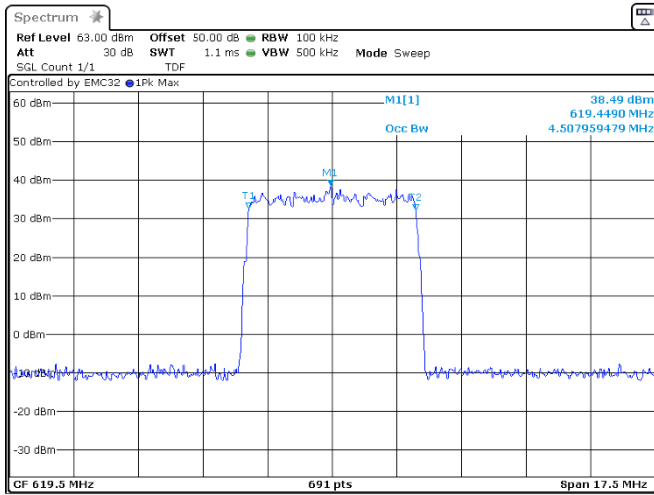
Testing data
 FCC §2.1049(h) 99% Occupied Bandwidth
 FCC Part 27



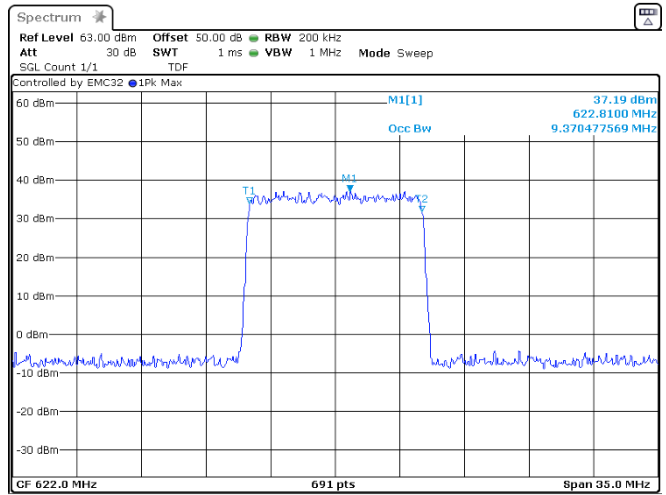
Occupied bandwidth (99 %), TX 644.5 MHz, BW: 15MHz, MOD: 64
 QAM



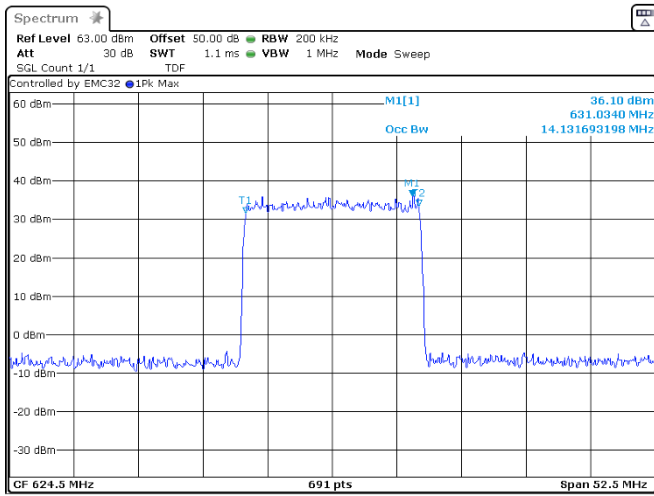
Occupied bandwidth (99 %), TX 642 MHz, BW: 20MHz, MOD: 64QA
 M



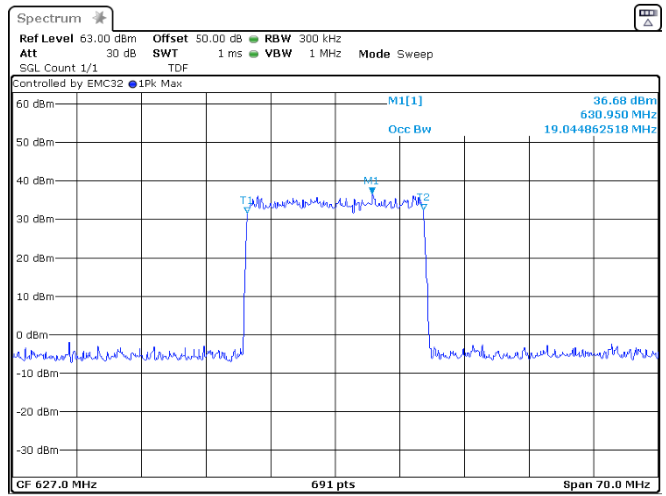
Occupied bandwidth (99 %), TX 619.5 MHz, BW: 5MHz, MOD: 256
 QAM



Occupied bandwidth (99 %), TX 622 MHz, BW: 10MHz, MOD: 256Q
 AM



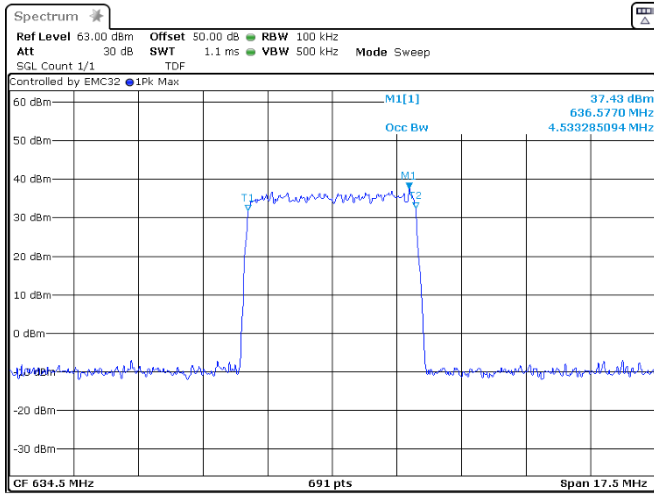
Occupied bandwidth (99 %), TX 624.5 MHz, BW: 15MHz, MOD: 25
 6QAM



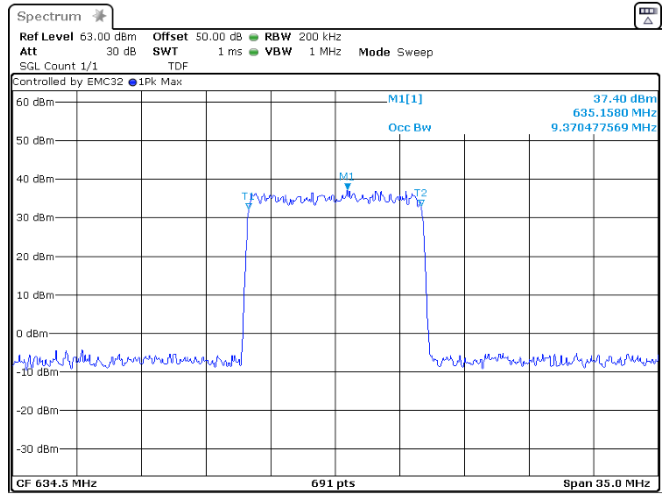
Occupied bandwidth (99 %), TX 627 MHz, BW: 20MHz, MOD: 256Q
 AM

Section 8
Test name
Specification

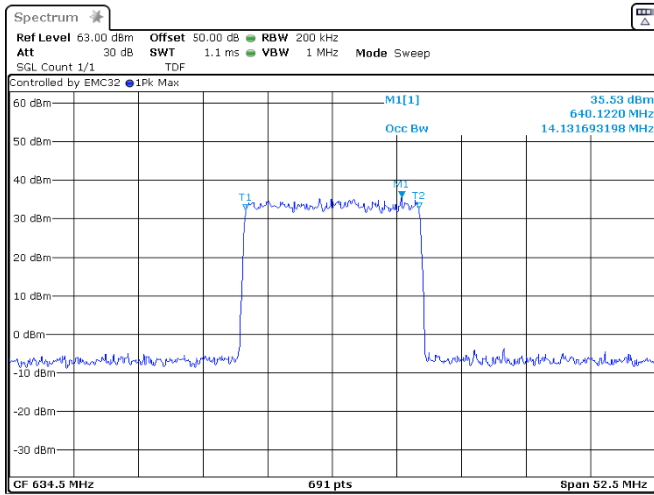
Testing data
 FCC §2.1049(h) 99% Occupied Bandwidth
 FCC Part 27



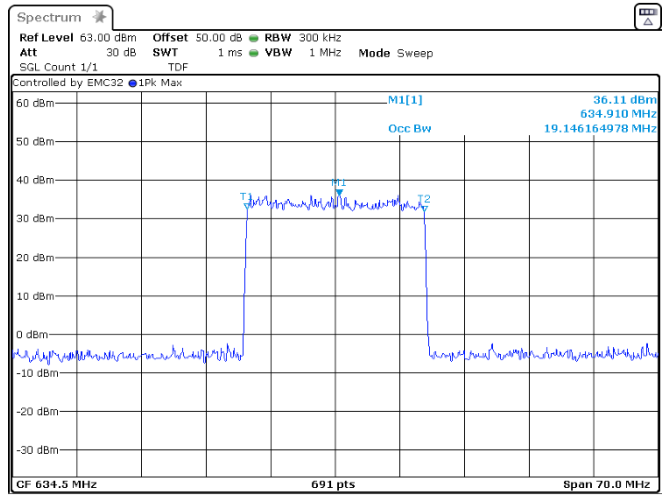
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 5MHz, MOD: 256
 QAM



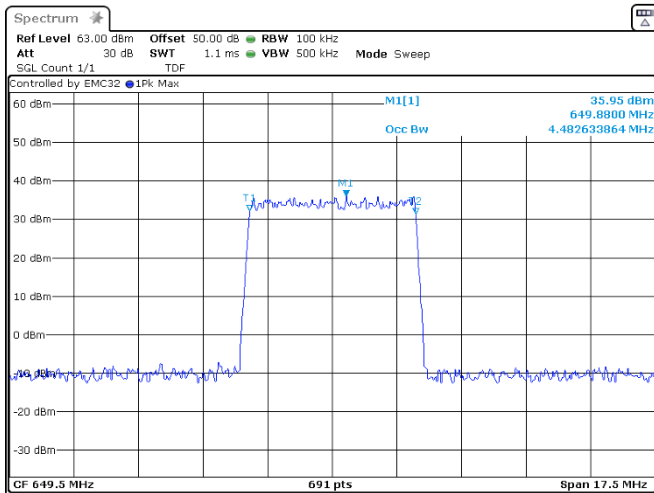
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 10MHz, MOD: 25
 6QAM



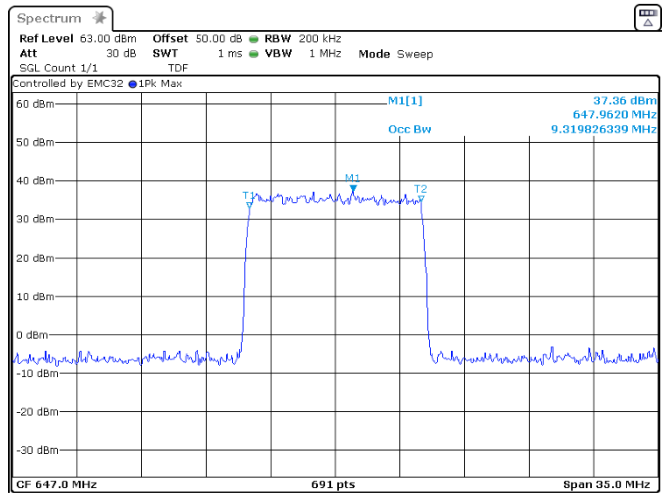
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 15MHz, MOD: 25
 6QAM



Occupied bandwidth (99 %), TX 634.5 MHz, BW: 20MHz, MOD: 25
 6QAM



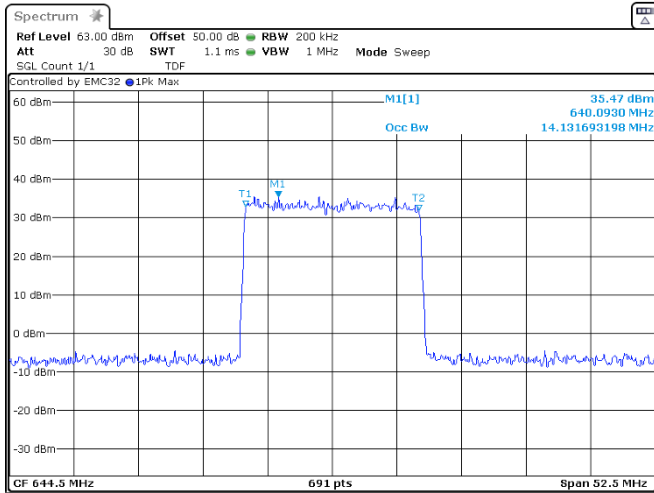
Occupied bandwidth (99 %), TX 649.5 MHz, BW: 5MHz, MOD: 256
 QAM



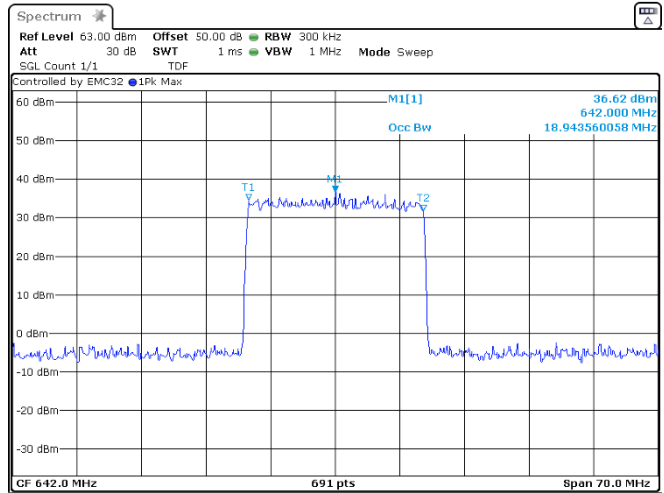
Occupied bandwidth (99 %), TX 647 MHz, BW: 10MHz, MOD: 256Q
 AM

Section 8
Test name
Specification

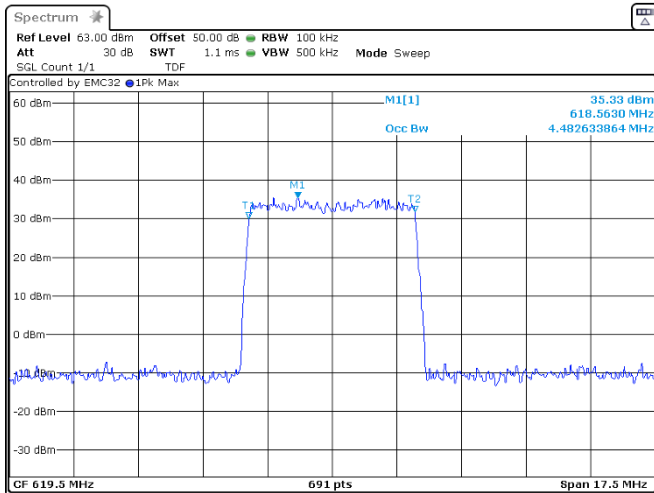
Testing data
 FCC §2.1049(h) 99% Occupied Bandwidth
 FCC Part 27



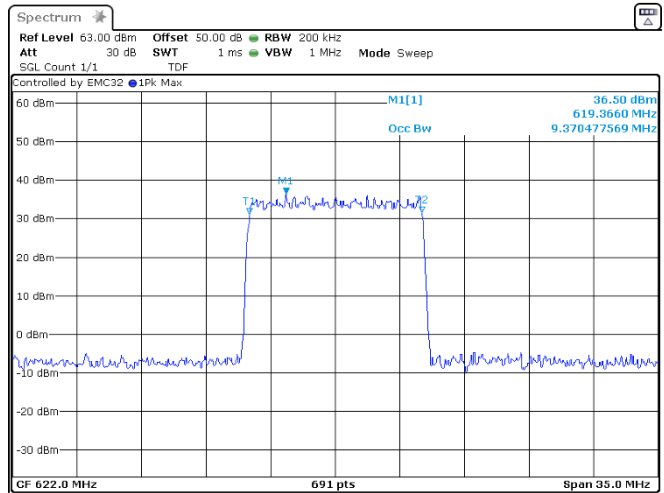
Occupied bandwidth (99 %), TX 644.5 MHz, BW: 15MHz, MOD: 25
 6QAM



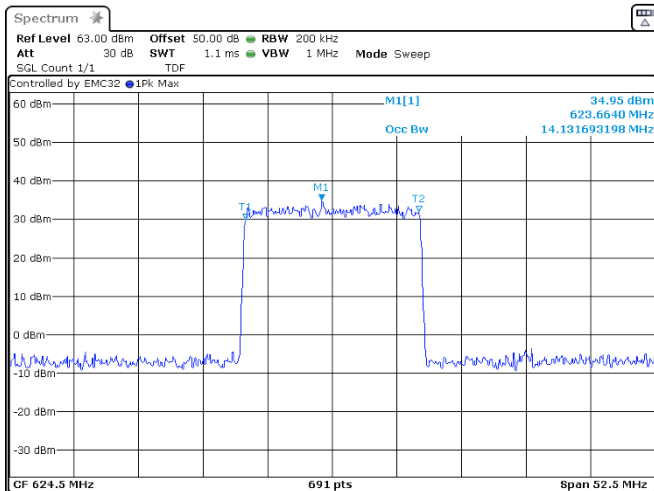
Occupied bandwidth (99 %), TX 642 MHz, BW: 20MHz, MOD: 25BQ
 AM



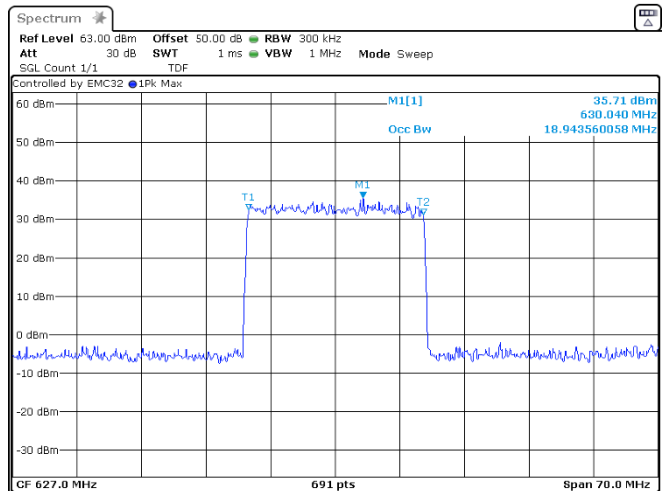
Occupied bandwidth (99 %), TX 619.5 MHz, BW: 5MHz, MOD: 102
 4QAM



Occupied bandwidth (99 %), TX 622 MHz, BW: 10MHz, MOD: 1024
 QAM



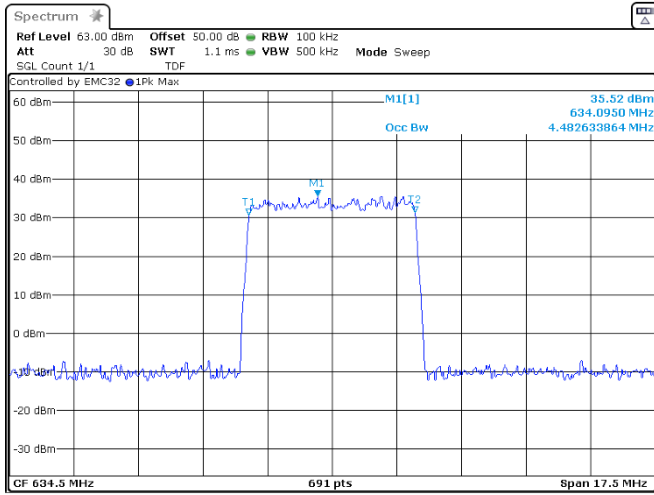
Occupied bandwidth (99 %), TX 624.5 MHz, BW: 15MHz, MOD: 10
 24QAM



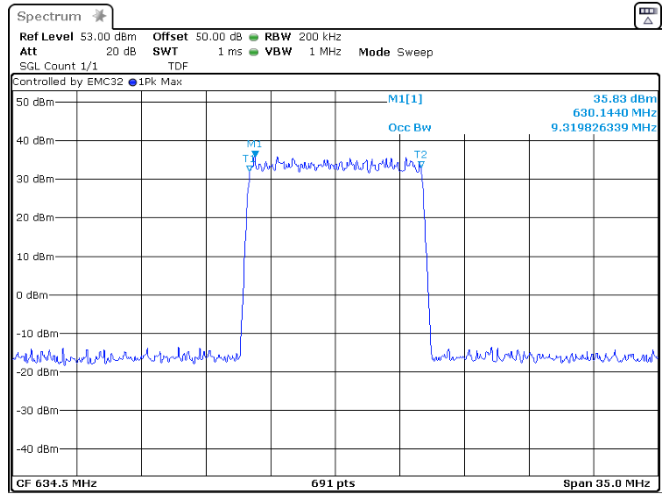
Occupied bandwidth (99 %), TX 627 MHz, BW: 20MHz, MOD: 1024
 QAM

Section 8
Test name
Specification

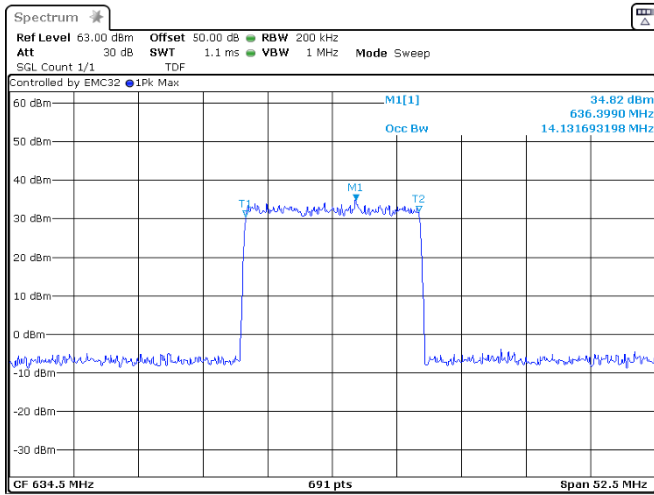
Testing data
 FCC §2.1049(h) 99% Occupied Bandwidth
 FCC Part 27



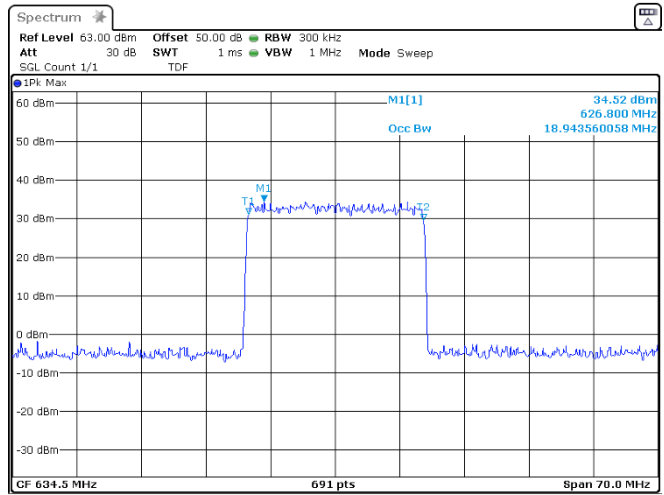
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 5MHz, MOD: 102
 4QAM



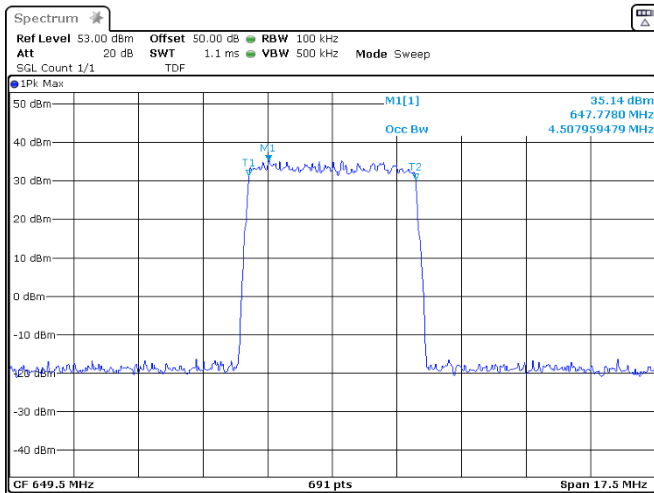
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 10MHz, MOD: 10
 24QAM



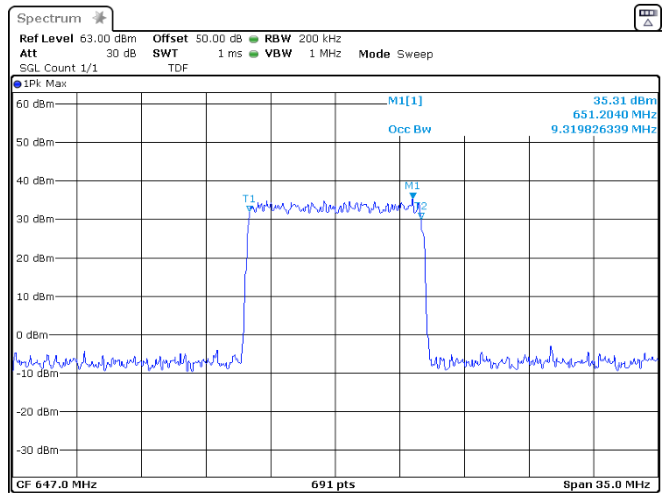
Occupied bandwidth (99 %), TX 634.5 MHz, BW: 15MHz, MOD: 10
 24QAM



Occupied bandwidth (99 %), TX 634.5 MHz, BW: 20MHz, MOD: 10
 24QAM



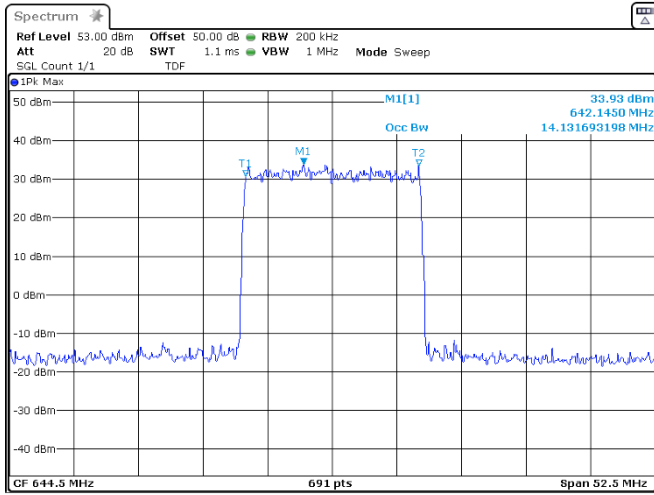
Occupied bandwidth (99 %), TX 649.5 MHz, BW: 5MHz, MOD: 102
 4QAM



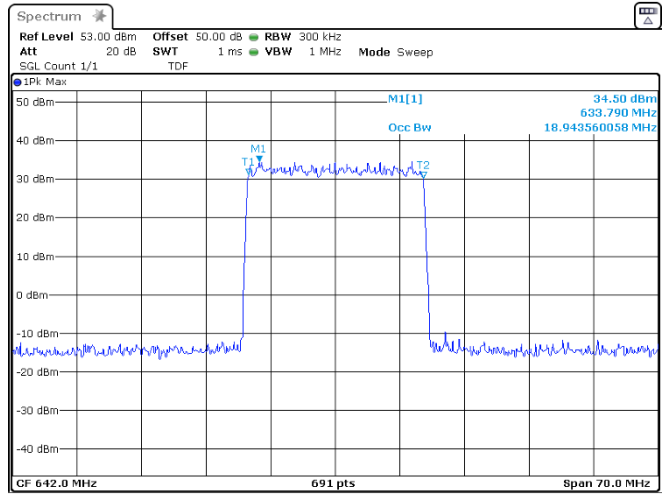
Occupied bandwidth (99 %), TX 647 MHz, BW: 10MHz, MOD: 1024
 QAM

Section 8
Test name
Specification

Testing data
FCC §2.1049(h) 99% Occupied Bandwidth
FCC Part 27



Occupied bandwidth (99 %), TX 644.5 MHz, BW: 15MHz, MOD: 10
24QAM



Occupied bandwidth (99 %), TX 642 MHz, BW: 20MHz, MOD: 1024
QAM

8.3 FCC §27.53 (g), (h) 26 dB Occupied Bandwidth

8.3.1 Definitions and limits

(3) Measurement procedure. (i) Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1-megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

8.3.2 Test summary

Test date	September 12, 2023	Temperature	22 °C
	September 13, 2023		23 °C
	September 14, 2023		22 °C
	November 17, 2023		24 °C
Test engineer	Chenhao Ma Wireless test technician	Air pressure	1003 mbar
			1001 mbar
			997 mbar
			1000 mbar
Verdict	Pass	Relative humidity	51 %
			54 %
			52 %
			52 %

8.3.3 Observations, settings and special notes

Testing was performed on the antenna port identified as the highest output power for each frequency band.
 Testing was performed according to ANSI C63.26 section 5.4.3.

Measured data for information only. 26 dB bandwidth is required to facilitate spurious emissions testing near the authorized band edge. Included spectrum analyzer plots show the worst-case (highest) OBW for each supported frequency band / bandwidth combination.

Spectrum analyzer settings:

Resolution bandwidth	1% - 5% OBW
Video bandwidth	3*RBW
Frequency span	2*OBW
Detector mode	Peak
Trace mode	Max Hold

8.3.4 Test data

Table 8.3-1: 26 dB Occupied bandwidth, QPSK Modulation.

Band	OBW Declared	Port	Channel (MHz)	26dB OBW
NB-loT+n71	0.2+20	B	617.3	20.090
NB-loT+n71	0.2+20	B	641.7	20.160
NB-loT+n71	0.2+20	B	651.7	20.160
n66	5	C	2112.5	4.844
n66	10	C	2115	9.891
n66	15	C	2117.5	14.837
n66	20	C	2120	19.884
n66	5	C	2155	4.844
n66	10	C	2155	9.891
n66	15	C	2155	14.837
n66	20	C	2155	19.986
n66	5	C	2197.5	4.844
n66	10	C	2195	9.942
n66	15	C	2192.5	14.837
n66	20	C	2190	19.884
n70	5	C	1997.5	4.844
n70	20	C	2005	19.844
n70	25	C	2007.5	24.725
n70	5	C	2007.5	4.844
n70	20	C	2007.5	19.783
n70	5	C	2017.5	4.844
n70	20	C	2010	19.844
n71	5	B	619.5	4.819
n71	10	B	622	9.841
n71	15	B	624.5	14.837
n71	20	B	627	19.884
n71	5	B	634.5	4.844
n71	10	B	634.5	9.891
n71	15	B	634.5	14.837
n71	20	B	634.5	19.884
n71	5	B	649.5	4.844
n71	10	B	647	9.942
n71	15	B	644.5	14.837
n71	20	B	642	19.884

Table 8.3-2: 26 dB Occupied bandwidth, 16QAM Modulation.

Band	OBW Declared	Port	Channel (MHz)	26dB OBW
n66	5	C	2112.5	4.844
n66	10	C	2115	9.942
n66	15	C	2117.5	14.761
n66	20	C	2120	19.884
n66	5	C	2155	4.819
n66	10	C	2155	9.942
n66	15	C	2155	14.761
n66	20	C	2155	19.884
n66	5	C	2197.5	4.819
n66	10	C	2195	9.891
n66	15	C	2192.5	14.837
n66	20	C	2190	19.844
n70	5	C	1997.5	4.844
n70	20	C	2005	19.844
n70	25	C	2007.5	24.601
n70	5	C	2007.5	4.819
n70	20	C	2007.5	19.783
n70	5	C	2017.5	4.844
n70	20	C	2010	19.844
n71	5	B	619.5	4.819
n71	10	B	622	9.790
n71	15	B	624.5	14.761
n71	20	B	627	19.783
n71	5	B	634.5	4.844
n71	10	B	634.5	9.942
n71	15	B	634.5	14.837
n71	20	B	634.5	19.783
n71	5	B	649.5	4.819
n71	10	B	647	9.841
n71	15	B	644.5	14.837
n71	20	B	642	19.783

Table 8.3-3: 26 dB Occupied bandwidth, 64QAM Modulation.

Band	OBW Declared	Port	Channel (MHz)	26dB OBW
n66	5	C	2112.5	4.844
n66	10	C	2115	9.891
n66	15	C	2117.5	14.837
n66	20	C	2120	19.986
n66	5	C	2155	4.819
n66	10	C	2155	9.841
n66	15	C	2155	14.837
n66	20	C	2155	19.783
n66	5	C	2197.5	4.819
n66	10	C	2195	9.942
n66	15	C	2192.5	14.761
n66	20	C	2190	19.884
n70	5	C	1997.5	4.844
n70	20	C	2005	19.783
n70	25	C	2007.5	24.855
n70	5	C	2007.5	4.819
n70	20	C	2007.5	19.884
n70	5	C	2017.5	4.844
n70	20	C	2010	19.783
n71	5	B	619.5	4.793
n71	10	B	622	9.891
n71	15	B	624.5	14.837
n71	20	B	627	19.884
n71	5	B	634.5	4.819
n71	10	B	634.5	9.942
n71	15	B	634.5	14.685
n71	20	B	634.5	19.783
n71	5	B	649.5	4.819
n71	10	B	647	9.891
n71	15	B	644.5	14.761
n71	20	B	642	19.783



Table 8.3-4: 26 dB Occupied bandwidth, 256QAM Modulation.

Band	OBW Declared	Port	Channel (MHz)	26dB OBW
n66	5	C	2112.5	4.819
n66	10	C	2115	9.891
n66	15	C	2117.5	14.837
n66	20	C	2120	19.884
n66	5	C	2155	4.819
n66	10	C	2155	9.942
n66	15	C	2155	14.837
n66	20	C	2155	19.783
n66	5	C	2197.5	4.844
n66	10	C	2195	9.942
n66	15	C	2192.5	14.837
n66	20	C	2190	19.783
n70	5	C	1997.5	4.793
n70	20	C	2005	19.884
n70	25	C	2007.5	24.728
n70	5	C	2007.5	4.844
n70	20	C	2007.5	19.783
n70	5	C	2017.5	4.844
n70	20	C	2010	19.844
n71	5	B	619.5	4.793
n71	10	B	622	9.942
n71	15	B	624.5	14.837
n71	20	B	627	19.884
n71	5	B	634.5	4.793
n71	10	B	634.5	9.891
n71	15	B	634.5	14.761
n71	20	B	634.5	19.884
n71	5	B	649.5	4.819
n71	10	B	647	9.841
n71	15	B	644.5	14.761
n71	20	B	642	19.783

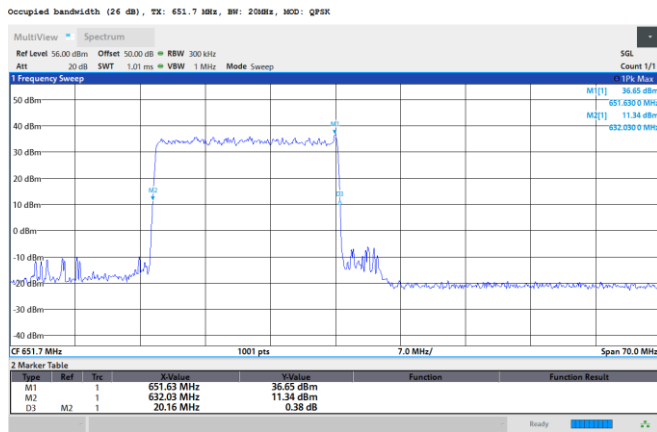
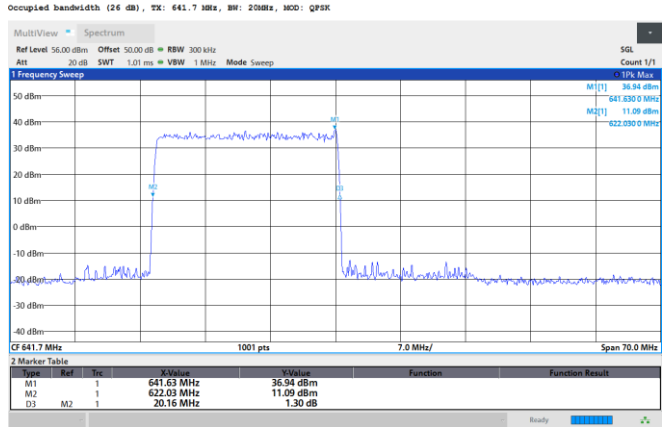
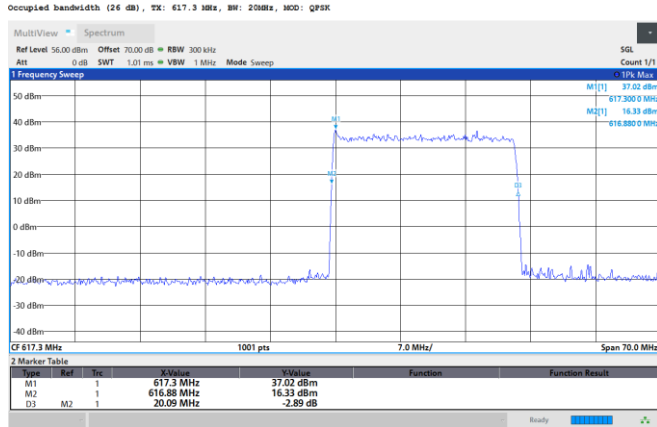


Table 8.3-5: 26 dB Occupied bandwidth, 1024QAM Modulation.

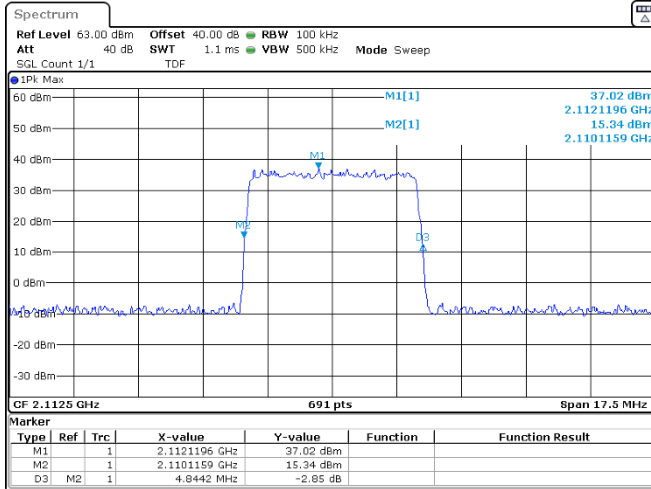
Band	OBW Declared	Port	Channel (MHz)	26dB OBW
n66	5	C	2112.5	4.819
n66	10	C	2115	9.891
n66	15	C	2117.5	14.761
n66	20	C	2120	19.783
n66	5	C	2155	4.844
n66	10	C	2155	9.841
n66	15	C	2155	14.837
n66	20	C	2155	19.783
n66	5	C	2197.5	4.844
n66	10	C	2195	9.942
n66	15	C	2192.5	14.837
n66	20	C	2190	19.783
n70	5	C	1997.5	4.844
n70	20	C	2005	19.884
n70	25	C	2007.5	24.728
n70	5	C	2007.5	4.844
n70	20	C	2007.5	19.884
n70	5	C	2017.5	4.844
n70	20	C	2010	19.783
n71	5	B	619.5	4.819
n71	10	B	622	9.891
n71	15	B	624.5	14.761
n71	20	B	627	19.844
n71	5	B	634.5	4.844
n71	10	B	634.5	9.891
n71	15	B	634.5	14.837
n71	20	B	634.5	19.783
n71	5	B	649.5	4.844
n71	10	B	647	9.841
n71	15	B	644.5	14.837
n71	20	B	642	19.783



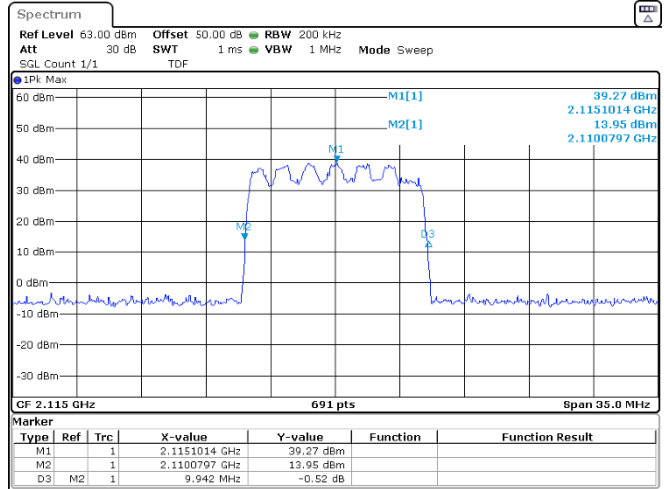
NB-IoT + Band n71, 26dB bandwidth



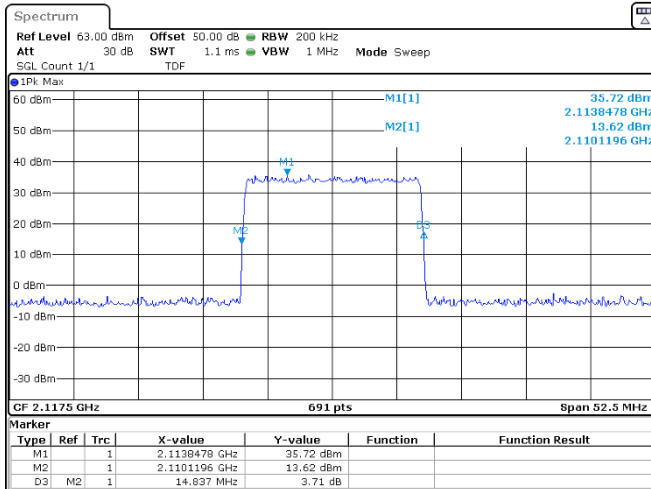
Band n66, 26dB bandwidth



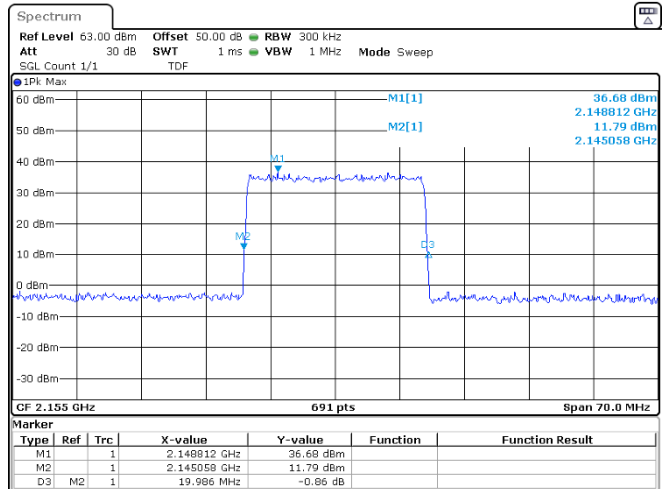
Occupied bandwidth (26 dB), TX 2112.5 MHz, BW: 5MHz, MOD: Q
 PSK



Occupied bandwidth (26 dB), TX 2115 MHz, BW: 10MHz, MOD: 16
 QAM

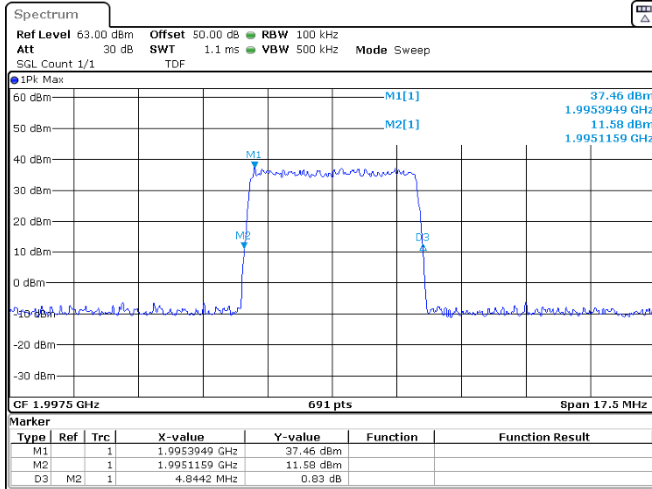


Occupied bandwidth (26 dB), TX 2117.5 MHz, BW: 15MHz, MOD:
 QPSK

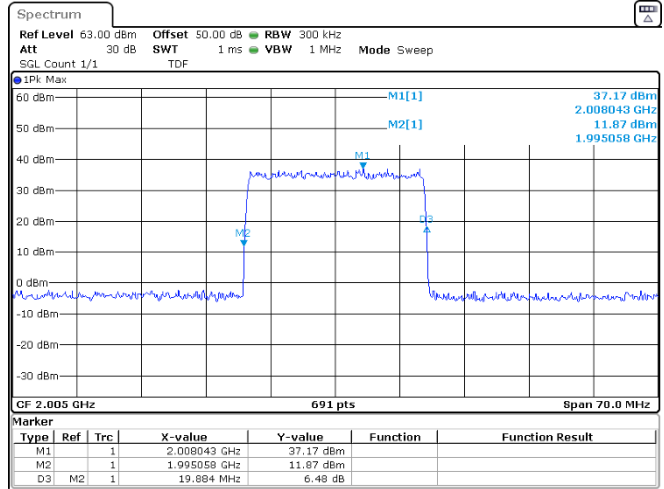


Occupied bandwidth (26 dB), TX 2155 MHz, BW: 20MHz, MOD: QP
 SK

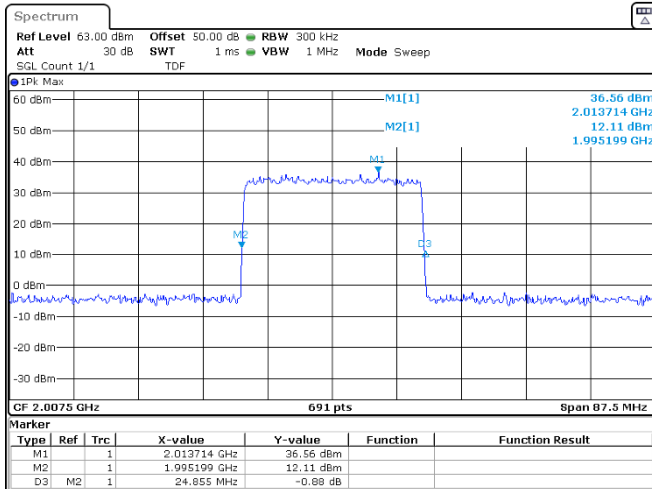
Band n70, 26dB bandwidth



Occupied bandwidth (28 dB), TX 1997.5 MHz, BW: 5MHz, MOD: QPSK

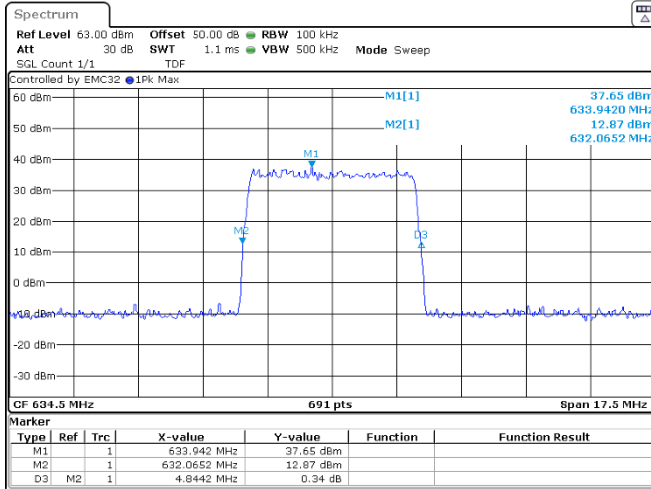


Occupied bandwidth (28 dB), TX 2005 MHz, BW: 20MHz, MOD: QPSK

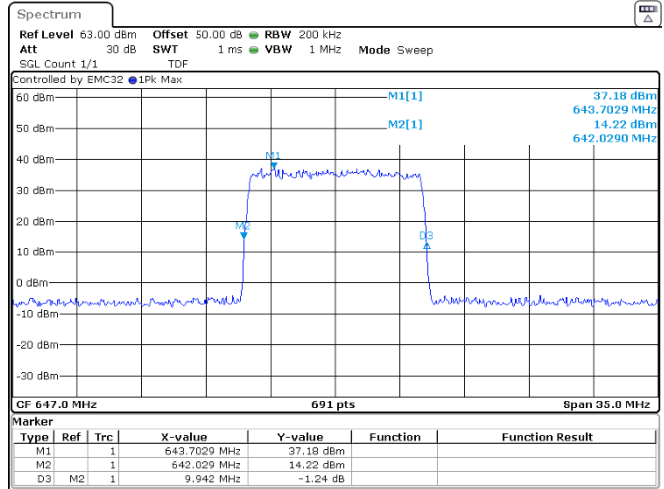


Occupied bandwidth (28 dB), TX 2007.5 MHz, BW: 25MHz, MOD: 64QAM

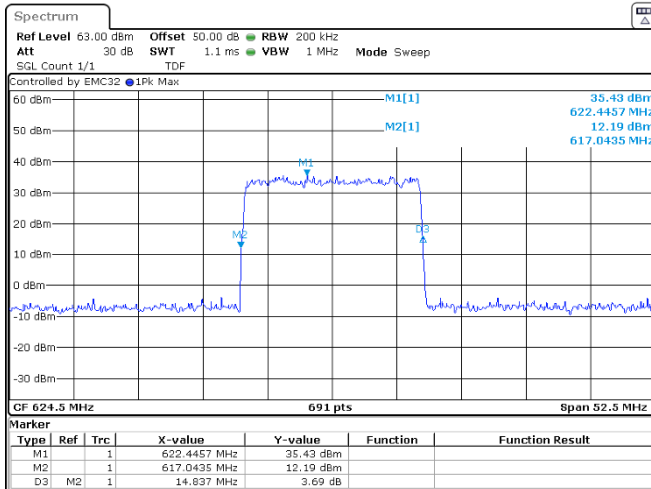
Band n71, 26dB bandwidth



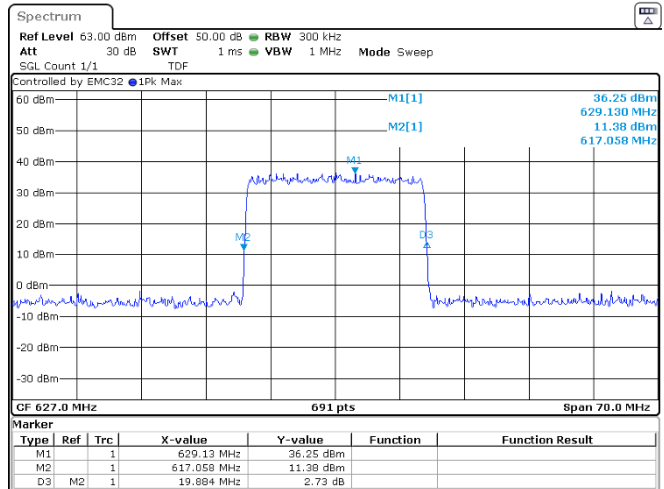
Occupied bandwidth (26 dB), TX 834.5 MHz, BW: 5MHz, MOD: QP
 SK



Occupied bandwidth (26 dB), TX 847 MHz, BW: 10MHz, MOD: QPS
 K



Occupied bandwidth (26 dB), TX 624.5 MHz, BW: 15MHz, MOD: Q
 PSK



Occupied bandwidth (26 dB), TX 627 MHz, BW: 20MHz, MOD: QPS
 K

8.4 FCC §27.50 (c)(3), (d)(2)(ii) Output power

8.4.1 Definitions and limits

(c) The following power and antenna height requirements apply to stations transmitting in the 600 MHz band and the 698–746 MHz band:

(3) Fixed and base stations transmitting a signal with an emission bandwidth greater than 1 MHz must not exceed an ERP of 1000 watts/MHz and an antenna height of 305 m HAAT, except that antenna heights greater than 305 m HAAT are permitted if power levels are reduced below 1000 watts/MHz ERP in accordance with Table 3 of this section

(d) The following power and antenna height requirements apply to stations transmitting in the 1695-1710 MHz, 1710-1755 MHz, 1755-1780 MHz, 1915-1920 MHz, 1995-2000 MHz, 2000-2020 MHz, 2110-2155 MHz, 2155-2180 MHz and 2180-2200 MHz bands:

(2) The power of each fixed or base station transmitting in the 1995-2000 MHz, the 2110-2155 MHz 2155-2180 MHz band, or 2180-2200 MHz band and situated in any geographic location other than that described in paragraph (d)(1) of this section is limited to:

(i) An equivalent isotropically radiated power (EIRP) of 1640 watts when transmitting with an emission bandwidth of 1 MHz or less.

(ii) An EIRP of 1640 watts/MHz when transmitting with an emission bandwidth greater than 1 MHz

8.4.2 Test summary

Test date	September 13, 2023 September 18, 2023 November 17, 2023	Temperature	23 °C 21 °C 24 °C
Test engineer	Chenhao Ma, Wireless test technician	Air pressure	1001 mbar 1002 mbar 1000 mbar
Verdict	Pass	Relative humidity	54 % 51 % 52 %

8.4.3 Observations, settings and special notes

Testing was performed according to ANSI C63.26 section 5.4.4.1.

Spectrum analyzer settings were:

Span	> 2 x OBW
RBW	1 MHz
VBW	3 MHz
Sweep Points	> 2 x Span / RBW
Detector	RMS (power averaging)
Trace type	Average (200 sweeps)

This test was made across the conducted port and using a spectrum. An offset (53.01dB) was added to the measurement to compensate the losses from the cable and attenuator used. The signal transmitted continuously and with a 100% of duty cycle.

EUT has four ports which can transmit at the same time in a correlated way. This correlation permits to make the measurement in one port getting as a result the total power from the 2 ports adding a factor calculated from the next equation:

$$\text{Correlation factor} = 10\text{Log}(N)$$

Where N is the number of ports. In this specific case, $N = 2$,

$$\text{Correlation factor} = 10\text{Log}(2) = 3.01 \text{ dB}$$



The requirements are specified in terms of EIRP density (dBm/MHz). For informational purposes and to facilitate RF exposure calculations, total channel power data is included in the tables below. Total channel power is measured using an RMS power meter. The total channel power below represents the total channel power for one antenna port with no adjustment for antenna gain or MIMO correction.

To select the measurement port, a quick power test was done. The four ports are similar, however, the port with maximum power was chosen to make all the remaining tests. This pre-test was applied to both bands (n66; n70 and n71):

Table 8.4-1: Output power, survey of antenna ports

Band	Modulation	OBW	Channel	Power density Port A (dBm/MHz)	Power density Port B (dBm/MHz)	Power density Port C (dBm/MHz)	Power density Port D (dBm/MHz)
n66	QPSK	5 MHz	2155 MHz	N/A	N/A	40.60	40.35
n66	QPSK	10MHz	2155 MHz	N/A	N/A	37.91	37.78
n66	QPSK	15MHz	2155 MHz	N/A	N/A	36.88	36.61
n66	QPSK	20MHz	2155 MHz	N/A	N/A	35.66	35.38
n70	QPSK	5 MHz	2007.5 MHz	N/A	N/A	41.17	40.63
n70	QPSK	20 MHz	2007.5 MHz	N/A	N/A	34.90	34.42
n70	QPSK	25 MHz	2007.5 MHz	N/A	N/A	33.98	33.41
n71	QPSK	5 MHz	634.5 MHz	41.46	41.53	N/A	N/A
n71	QPSK	10MHz	634.5 MHz	38.22	38.24	N/A	N/A
n71	QPSK	15MHz	634.5 MHz	36.48	36.40	N/A	N/A
n71	QPSK	20MHz	634.5 MHz	35.17	35.23	N/A	N/A

Port B was selected for n71 band and NB-IoT, port C was selected for n66 and n70 bands. They will be used to evaluate all the tests of this document.



8.4.4 Test data

Table 8.4-2: Conducted output power density, modulation QPSK.

Band	OBW Declared	Port	Channel (MHz)	Power Density (dBm/1 MHz)	Total channel power (dBm)
NB-IoT+N71	0.2+20	B	617.3	33.92	40.32
NB-IoT+N71	0.2+20	B	641.7	34.05	40.64
NB-IoT+N71	0.2+20	B	651.7	34.13	40.29
N66	5	C	2112.5	40.57	43.69
N66	10	C	2115	37.94	43.75
N66	15	C	2117.5	37.01	43.77
N66	20	C	2120	35.69	43.73
N66	5	C	2155	40.65	43.82
N66	10	C	2155	38.04	43.80
N66	15	C	2155	36.93	43.77
N66	20	C	2155	35.69	43.55
N66	5	C	2197.5	40.19	43.43
N66	10	C	2195	37.57	43.47
N66	15	C	2192.5	36.64	43.48
N66	20	C	2190	35.29	43.44
N70	5	C	1997.5	41.01	43.60
N70	20	C	2005	34.83	43.58
N70	25	C	2007.5	41.06	43.41
N70	5	C	2007.5	34.80	43.61
N70	20	C	2007.5	33.77	43.40
N70	5	C	2017.5	41.02	43.44
N70	20	C	2010	34.81	43.67
N71	5	B	619.5	41.66	43.89
N71	10	B	622	38.49	43.93
N71	15	B	624.5	36.58	43.94
N71	20	B	627	35.32	43.83
N71	5	B	634.5	41.53	43.91
N71	10	B	634.5	38.24	43.91
N71	15	B	634.5	36.40	43.82
N71	20	B	634.5	35.23	43.80
N71	5	B	649.5	40.94	43.46
N71	10	B	647	38.01	43.57
N71	15	B	644.5	36.26	43.62
N71	20	B	642	35.07	43.64

Table 8.4-3: Conducted output power density, modulation 16QAM.

Band	OBW Declared	Port	Channel (MHz)	Power Density (dBm/1 MHz)	Total channel power (dBm)
N66	5	C	2112.5	40.49	43.68
N66	10	C	2115	37.87	43.72
N66	15	C	2117.5	36.91	43.75
N66	20	C	2120	35.71	43.77
N66	5	C	2155	40.66	43.80
N66	10	C	2155	37.89	43.77
N66	15	C	2155	36.94	43.77
N66	20	C	2155	35.72	43.69
N66	5	C	2197.5	40.14	43.42
N66	10	C	2195	37.46	43.46
N66	15	C	2192.5	36.51	43.48
N66	20	C	2190	35.38	43.51
N70	5	C	1997.5	41.30	43.55
N70	20	C	2005	36.38	43.44
N70	25	C	2007.5	41.30	43.41
N70	5	C	2007.5	36.39	43.57
N70	20	C	2007.5	35.22	43.41
N70	5	C	2017.5	41.30	43.40
N70	20	C	2010	36.49	43.89
N71	5	B	619.5	41.87	43.87
N71	10	B	622	39.22	43.89
N71	15	B	624.5	38.27	43.94
N71	20	B	627	36.89	43.84
N71	5	B	634.5	41.79	43.90
N71	10	B	634.5	39.12	43.89
N71	15	B	634.5	38.02	43.88
N71	20	B	634.5	36.73	43.78
N71	5	B	649.5	41.17	43.45
N71	10	B	647	38.74	43.56
N71	15	B	644.5	37.80	43.61
N71	20	B	642	36.57	43.61

Table 8.4-4: Conducted output power density, modulation 64QAM.

Band	OBW Declared	Port	Channel (MHz)	Power Density (dBm/1 MHz)	Total channel power (dBm)
N66	5	C	2112.5	40.33	43.67
N66	10	C	2115	37.23	43.72
N66	15	C	2117.5	35.37	43.75
N66	20	C	2120	34.07	43.74
N66	5	C	2155	40.46	43.76
N66	10	C	2155	37.21	43.73
N66	15	C	2155	35.43	43.78
N66	20	C	2155	34.06	43.75
N66	5	C	2197.5	39.96	43.40
N66	10	C	2195	36.88	43.46
N66	15	C	2192.5	35.09	43.48
N66	20	C	2190	33.78	43.47
N70	5	C	1997.5	41.08	43.54
N70	20	C	2005	34.79	43.55
N70	25	C	2007.5	41.09	43.68
N70	5	C	2007.5	34.84	43.55
N70	20	C	2007.5	33.87	43.47
N70	5	C	2017.5	41.09	43.38
N70	20	C	2010	34.75	43.74
N71	5	B	619.5	41.63	43.85
N71	10	B	622	38.44	43.93
N71	15	B	624.5	36.70	43.94
N71	20	B	627	35.40	43.84
N71	5	B	634.5	41.52	43.90
N71	10	B	634.5	38.30	43.90
N71	15	B	634.5	36.56	43.88
N71	20	B	634.5	35.26	43.78
N71	5	B	649.5	41.03	43.43
N71	10	B	647	38.01	43.57
N71	15	B	644.5	36.36	43.63
N71	20	B	642	35.19	43.62

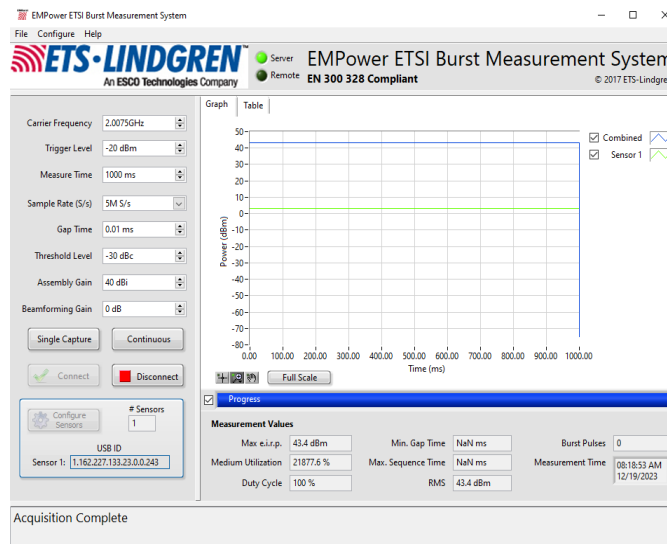
Table 8.4-5: Conducted output power density, modulation 256QAM.

Band	OBW Declared	Port	Channel (MHz)	Power Density (dBm/1 MHz)	Total channel power (dBm)
N66	5	C	2112.5	40.20	43.70
N66	10	C	2115	37.07	43.64
N66	15	C	2117.5	35.27	43.66
N66	20	C	2120	34.12	43.68
N66	5	C	2155	40.42	43.69
N66	10	C	2155	37.16	43.70
N66	15	C	2155	35.35	43.69
N66	20	C	2155	34.06	43.71
N66	5	C	2197.5	39.95	43.47
N66	10	C	2195	36.84	43.39
N66	15	C	2192.5	35.12	43.44
N66	20	C	2190	33.86	43.49
N70	5	C	1997.5	41.08	43.48
N70	20	C	2005	34.80	43.50
N70	25	C	2007.5	41.00	43.39
N70	5	C	2007.5	34.76	43.52
N70	20	C	2007.5	33.92	43.41
N70	5	C	2017.5	40.96	43.35
N70	20	C	2010	34.82	43.40
N71	5	B	619.5	41.80	43.78
N71	10	B	622	38.60	43.87
N71	15	B	624.5	36.58	43.88
N71	20	B	627	34.97	43.80
N71	5	B	634.5	41.12	43.82
N71	10	B	634.5	37.92	43.84
N71	15	B	634.5	36.09	43.82
N71	20	B	634.5	34.77	43.74
N71	5	B	649.5	40.51	43.36
N71	10	B	647	37.47	43.50
N71	15	B	644.5	35.84	43.58
N71	20	B	642	34.64	43.57

Table 8.4-6: Conducted output power density, modulation 102QAM.

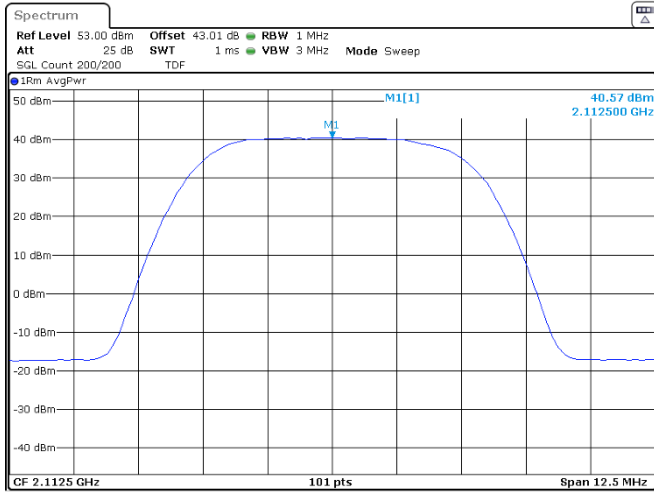
Band	OBW Declared	Port	Channel (MHz)	Power Density (dBm/1 MHz)	Total channel power (dBm)
N66	5	C	2112.5	38.85	42.23
N66	10	C	2115	35.78	42.31
N66	15	C	2117.5	34.01	42.32
N66	20	C	2120	32.70	42.32
N66	5	C	2155	39.03	42.32
N66	10	C	2155	35.79	42.34
N66	15	C	2155	34.02	42.25
N66	20	C	2155	32.68	42.28
N66	5	C	2197.5	38.56	41.95
N66	10	C	2195	35.48	42.05
N66	15	C	2192.5	33.79	42.06
N66	20	C	2190	32.41	42.04
N70	5	C	1997.5	41.08	43.28
N70	20	C	2005	34.80	42.54
N70	25	C	2007.5	41.00	41.99
N70	5	C	2007.5	34.76	42.11
N70	20	C	2007.5	33.92	41.98
N70	5	C	2017.5	40.96	41.97
N70	20	C	2010	34.82	42.02
N71	5	B	619.5	39.58	42.36
N71	10	B	622	36.42	42.46
N71	15	B	624.5	34.66	42.46
N71	20	B	627	33.32	42.35
N71	5	B	634.5	39.50	42.38
N71	10	B	634.5	36.30	42.44
N71	15	B	634.5	34.51	42.41
N71	20	B	634.5	33.23	42.31
N71	5	B	649.5	38.98	41.93
N71	10	B	647	35.98	42.09
N71	15	B	644.5	34.34	42.15
N71	20	B	642	33.12	42.68

Sample total channel power plot:

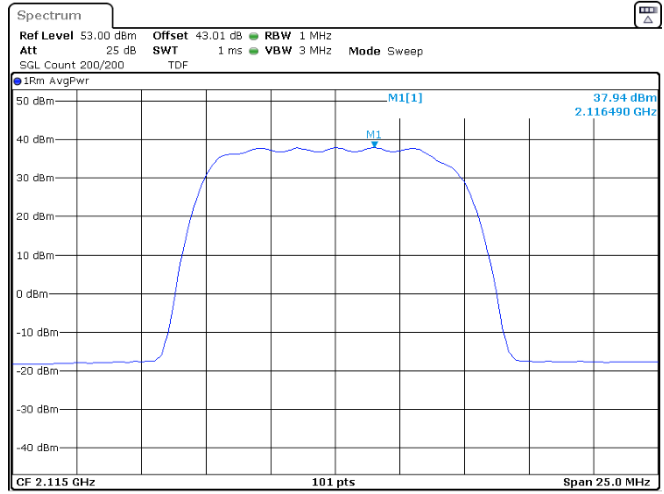




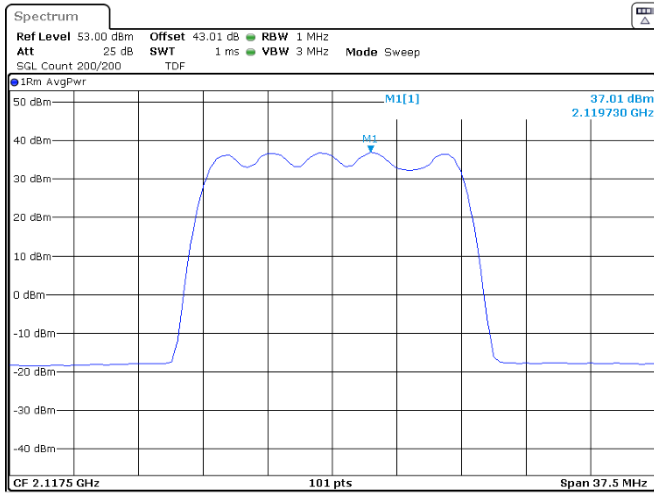
Power density plots (Band 66):



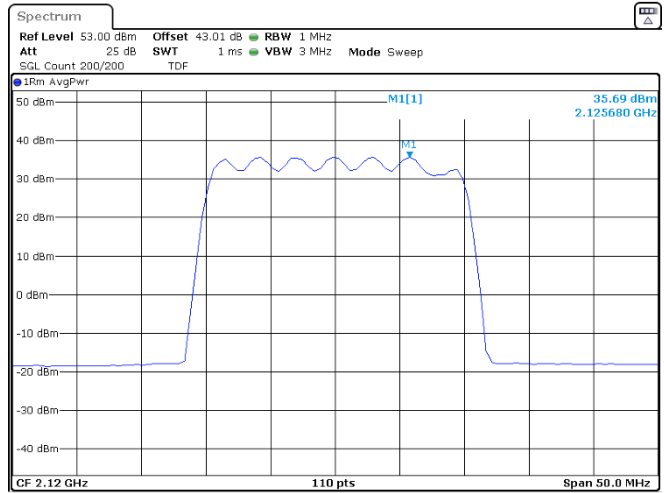
Average PSD, TX 2112.5 MHz, BW: 5MHz, MOD: QPSK



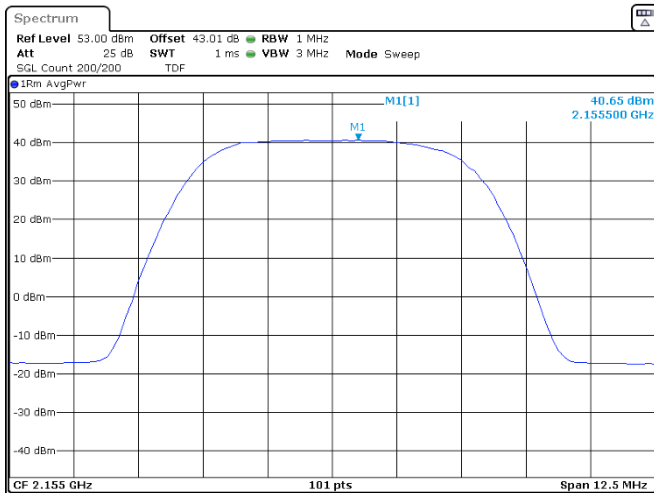
Average PSD, TX 2115 MHz, BW: 10MHz, MOD: QPSK



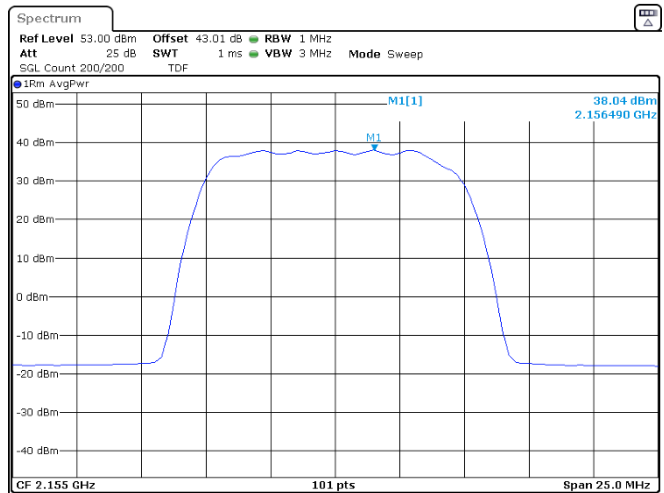
Average PSD, TX 2117.5 MHz, BW: 15MHz, MOD: QPSK



Average PSD, TX 2120 MHz, BW: 20MHz, MOD: QPSK



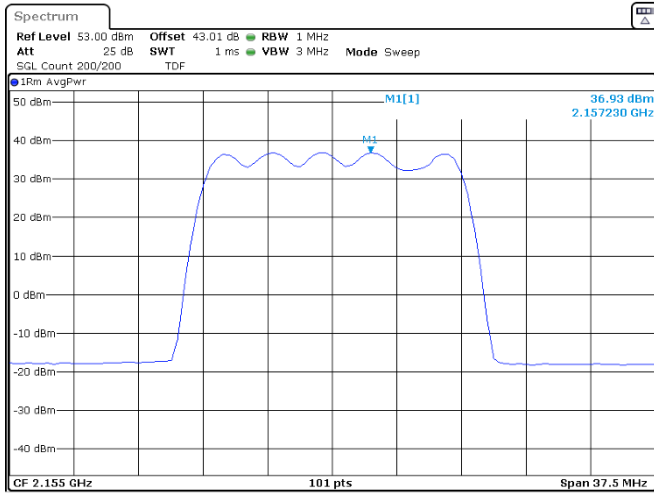
Average PSD, TX 2155 MHz, BW: 5MHz, MOD: QPSK



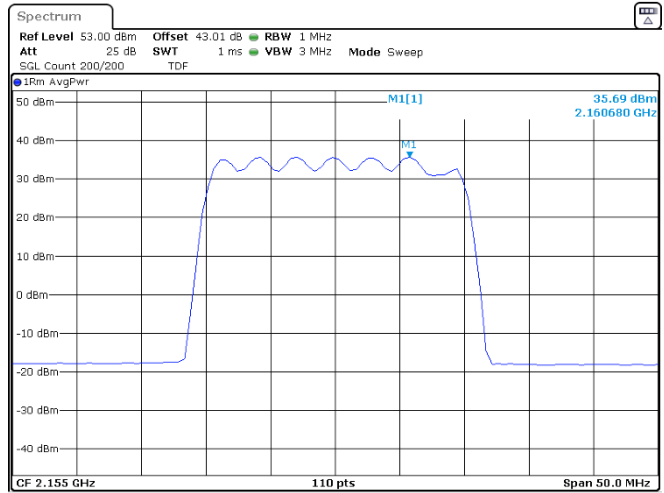
Average PSD, TX 2155 MHz, BW: 10MHz, MOD: QPSK

Section 8
Test name
Specification

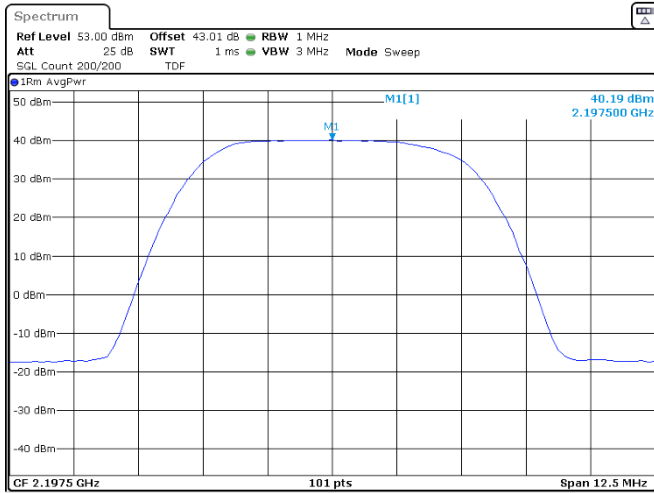
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



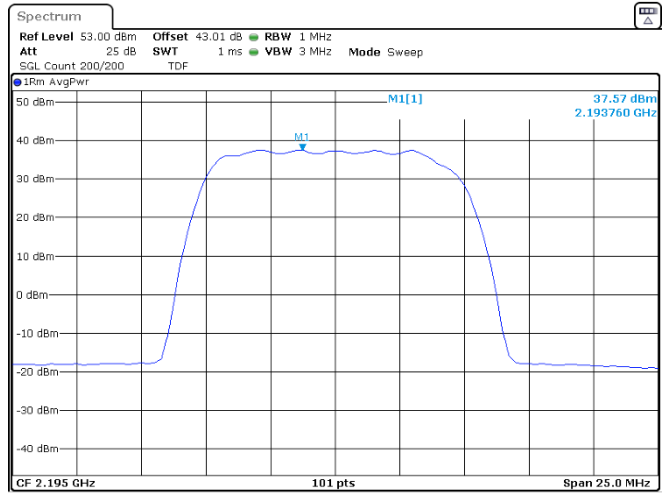
Average PSD, TX 2155 MHz, BW: 15MHz, MOD: QPSK



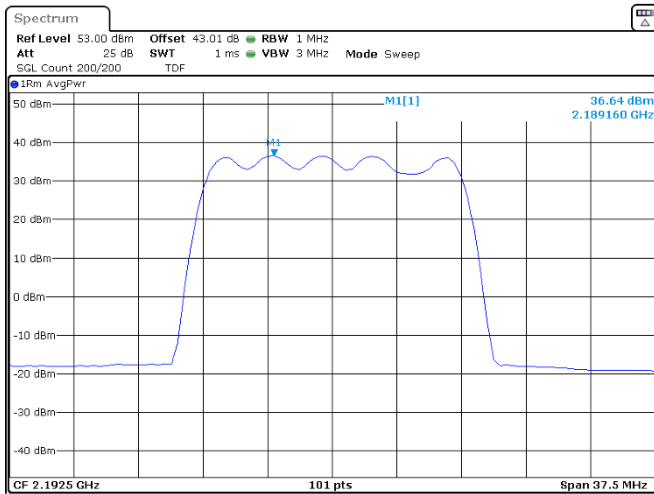
Average PSD, TX 2155 MHz, BW: 20MHz, MOD: QPSK



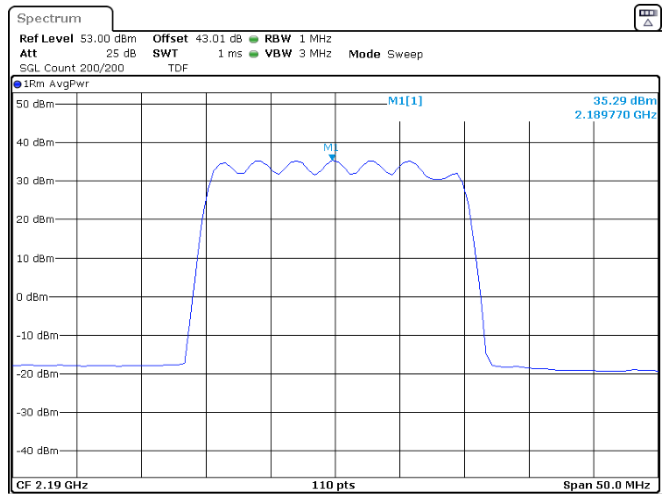
Average PSD, TX 2197.5 MHz, BW: 5MHz, MOD: QPSK



Average PSD, TX 2195 MHz, BW: 10MHz, MOD: QPSK



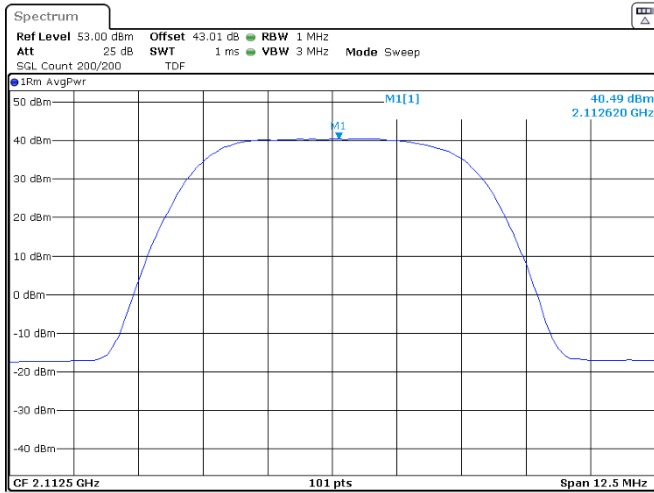
Average PSD, TX 2192.5 MHz, BW: 15MHz, MOD: QPSK



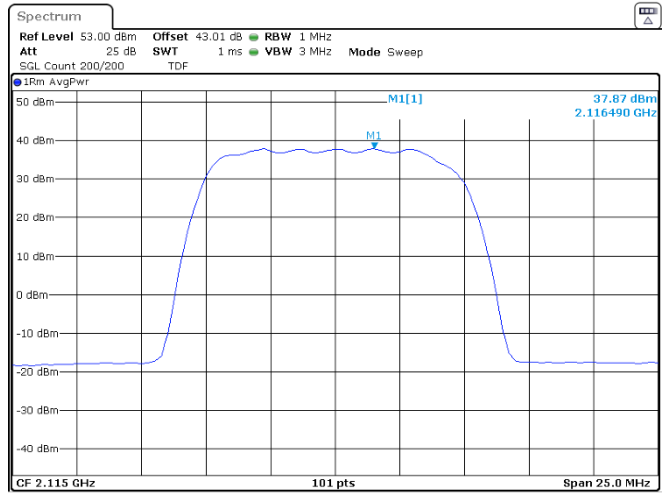
Average PSD, TX 2190 MHz, BW: 20MHz, MOD: QPSK

Section 8
Test name
Specification

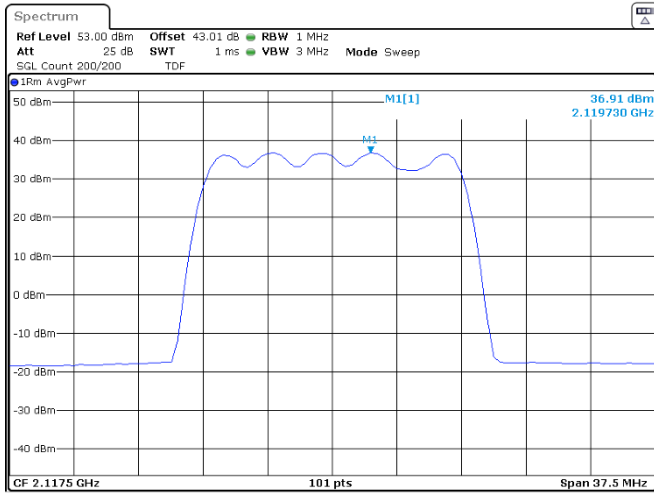
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



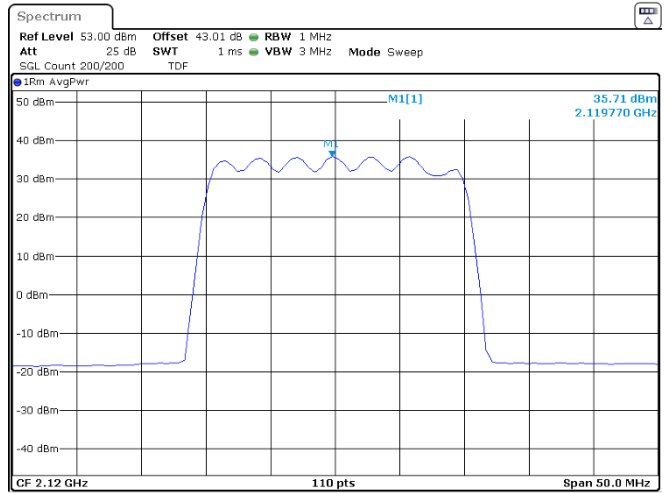
Average PSD, TX 2112.5 MHz, BW: 5MHz, MOD: 16QAM



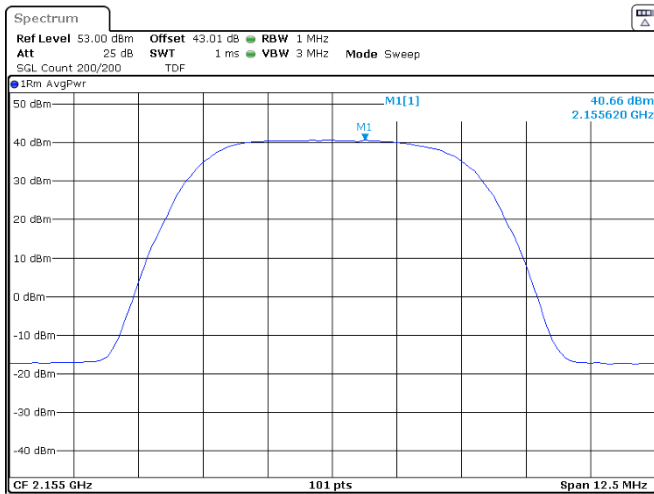
Average PSD, TX 2115 MHz, BW: 10MHz, MOD: 16QAM



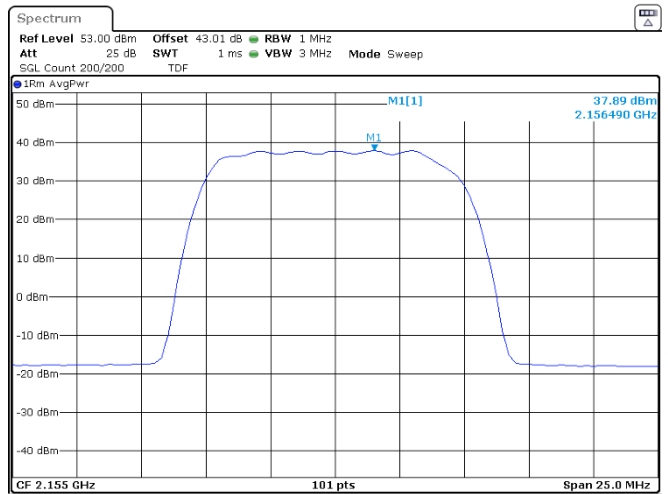
Average PSD, TX 2117.5 MHz, BW: 15MHz, MOD: 16QAM



Average PSD, TX 2120 MHz, BW: 20MHz, MOD: 16QAM



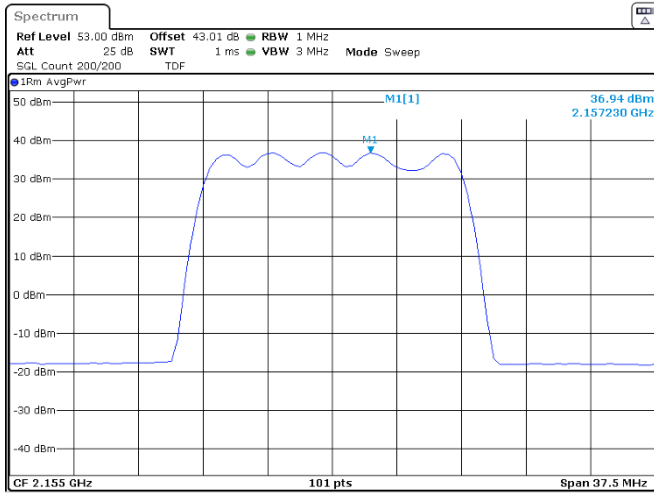
Average PSD, TX 2155 MHz, BW: 5MHz, MOD: 16QAM



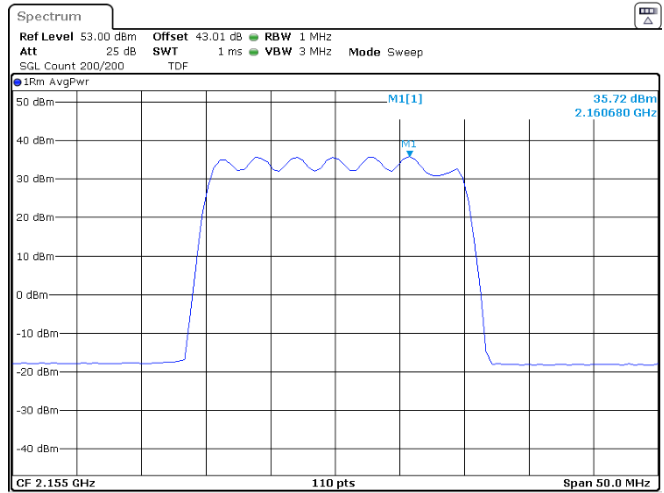
Average PSD, TX 2155 MHz, BW: 10MHz, MOD: 16QAM

Section 8
Test name
Specification

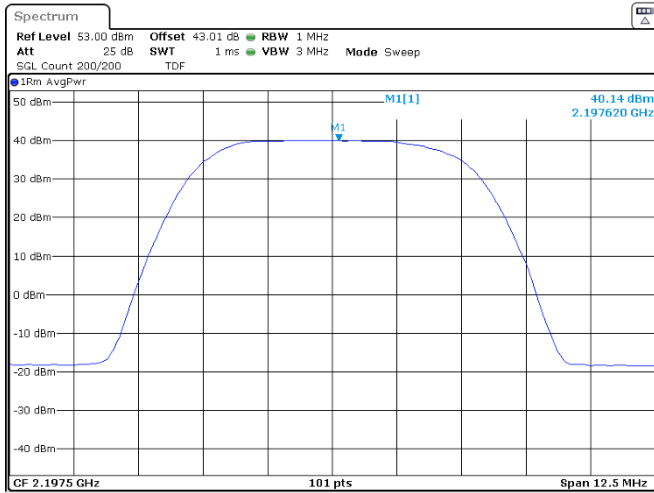
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



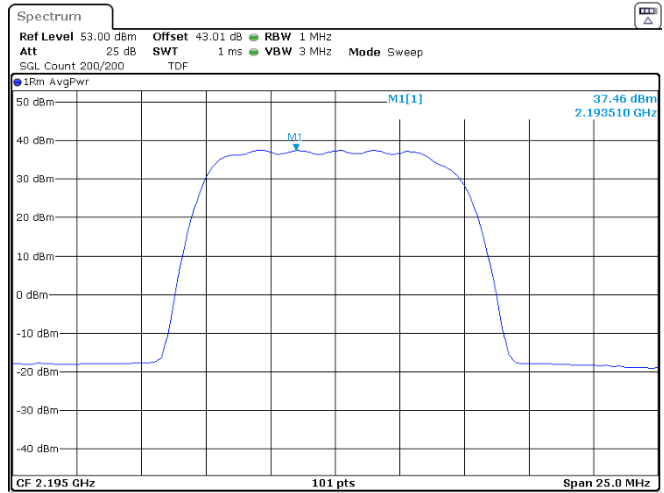
Average PSD, TX 2155 MHz, BW: 15MHz, MOD: 16QAM



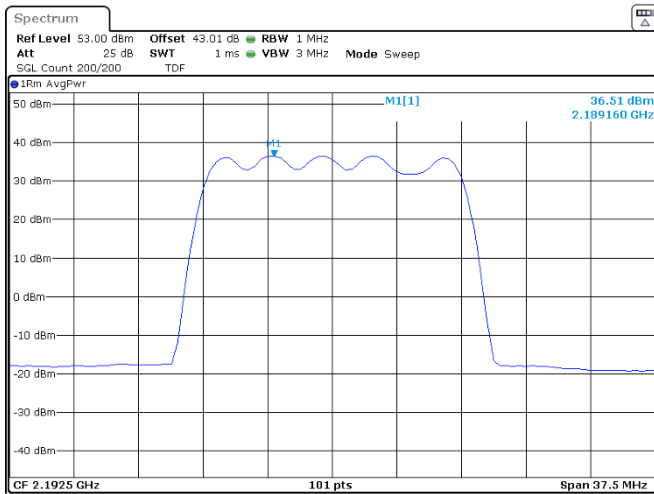
Average PSD, TX 2155 MHz, BW: 20MHz, MOD: 16QAM



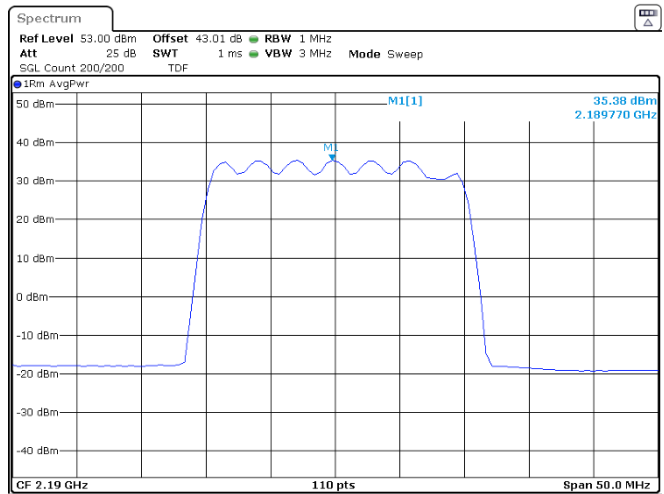
Average PSD, TX 2197.5 MHz, BW: 5MHz, MOD: 16QAM



Average PSD, TX 2195 MHz, BW: 10MHz, MOD: 16QAM



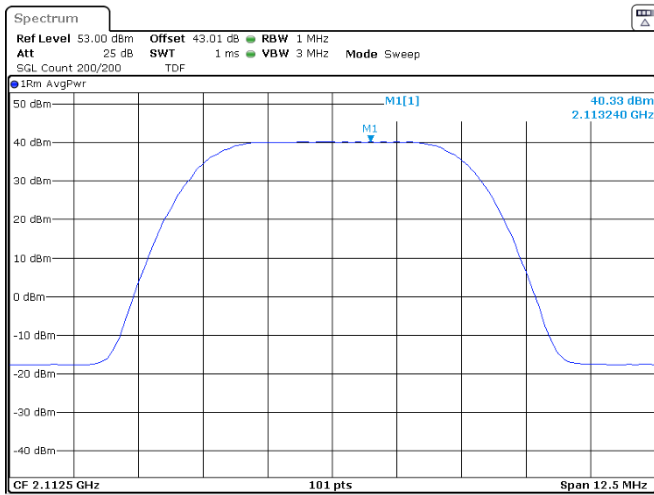
Average PSD, TX 2192.5 MHz, BW: 15MHz, MOD: 16QAM



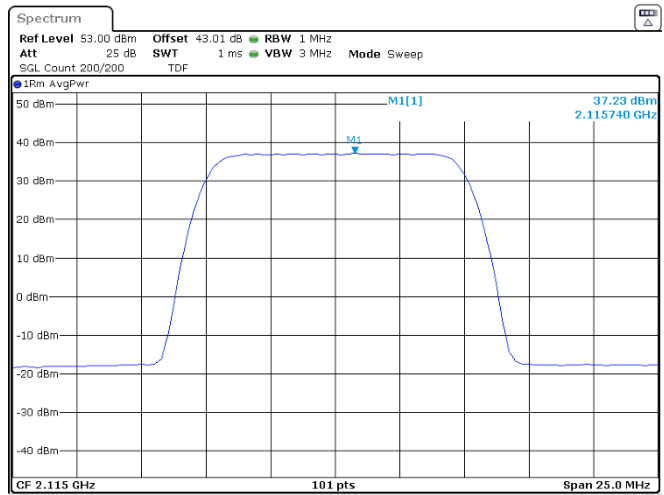
Average PSD, TX 2190 MHz, BW: 20MHz, MOD: 16QAM

Section 8
Test name
Specification

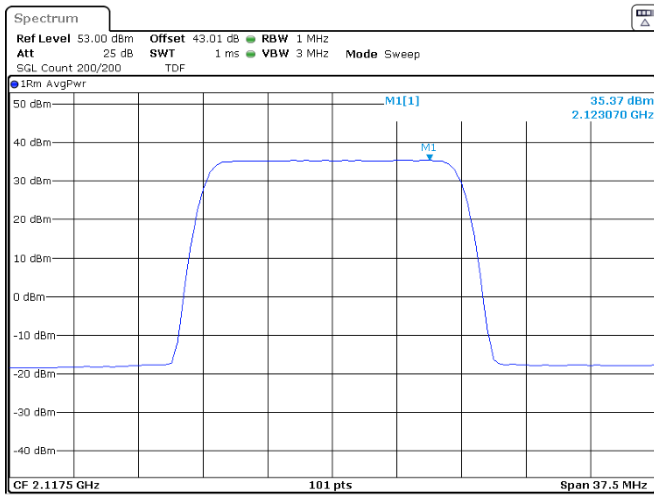
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



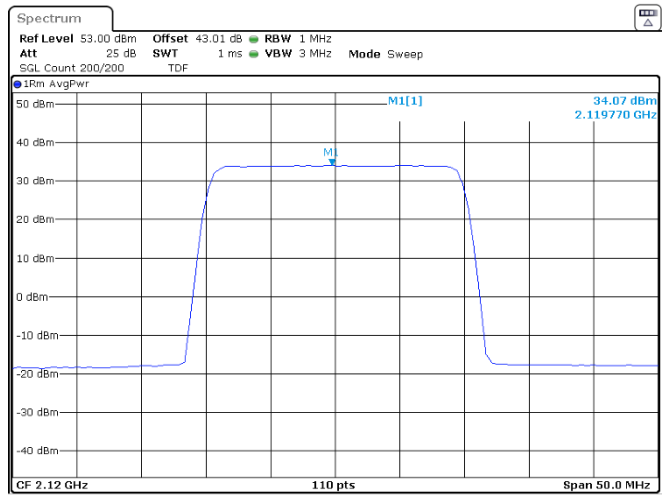
Average PSD, TX 2112.5 MHz, BW: 5MHz, MOD: 64QAM



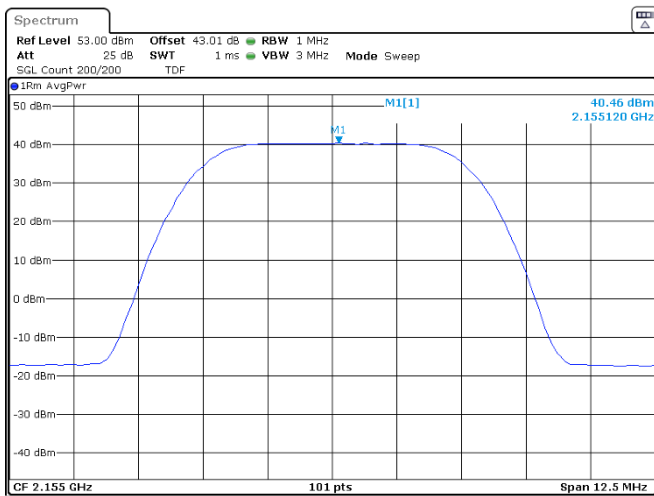
Average PSD, TX 2115 MHz, BW: 10MHz, MOD: 64QAM



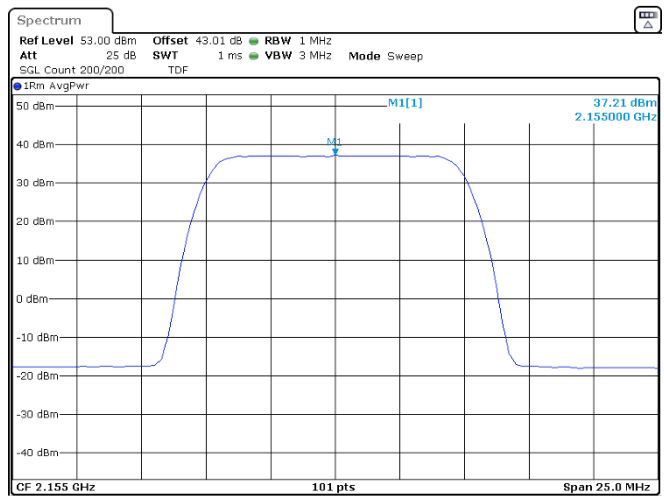
Average PSD, TX 2117.5 MHz, BW: 15MHz, MOD: 64QAM



Average PSD, TX 2120 MHz, BW: 20MHz, MOD: 64QAM



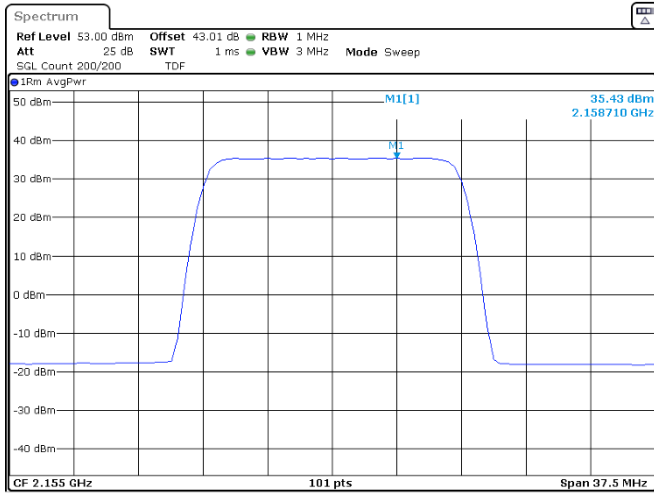
Average PSD, TX 2155 MHz, BW: 5MHz, MOD: 64QAM



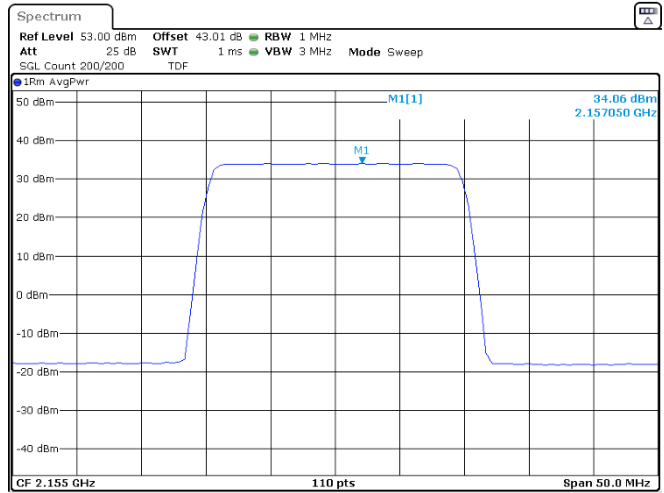
Average PSD, TX 2155 MHz, BW: 10MHz, MOD: 64QAM

Section 8
Test name
Specification

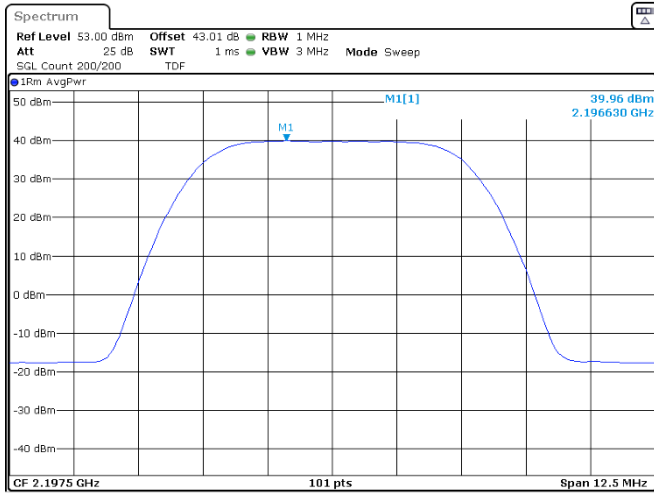
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



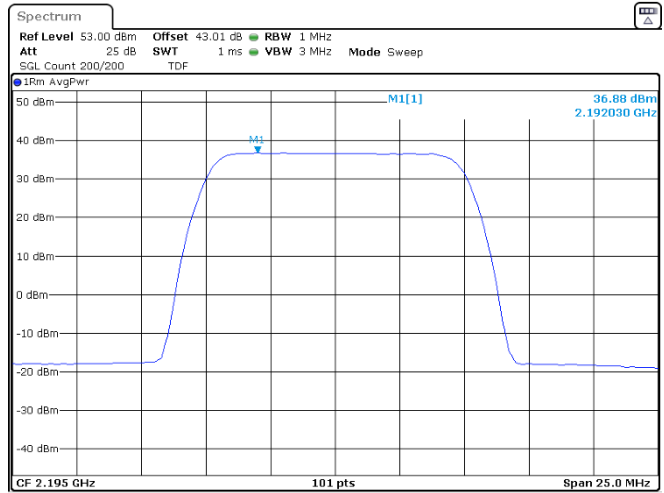
Average PSD, TX 2155 MHz, BW: 15MHz, MOD: 64QAM



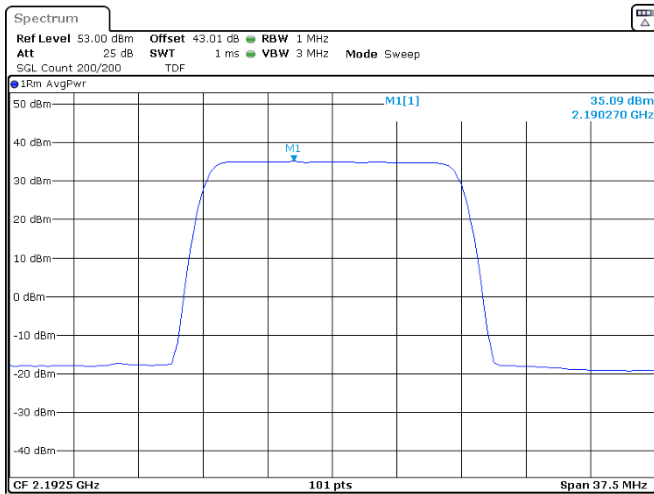
Average PSD, TX 2155 MHz, BW: 20MHz, MOD: 64QAM



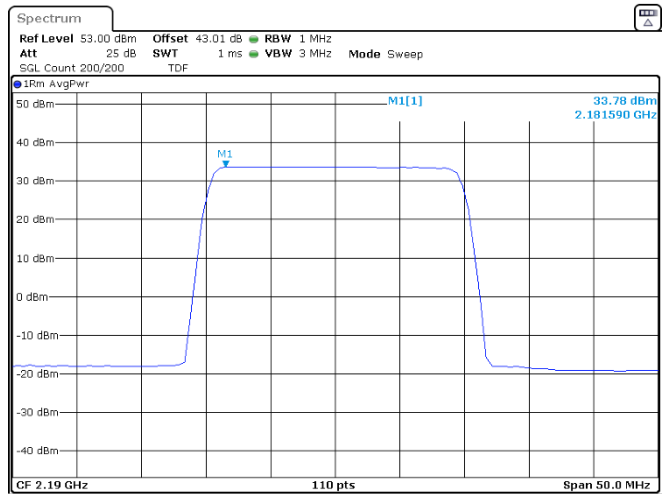
Average PSD, TX 2197.5 MHz, BW: 5MHz, MOD: 64QAM



Average PSD, TX 2195 MHz, BW: 10MHz, MOD: 64QAM



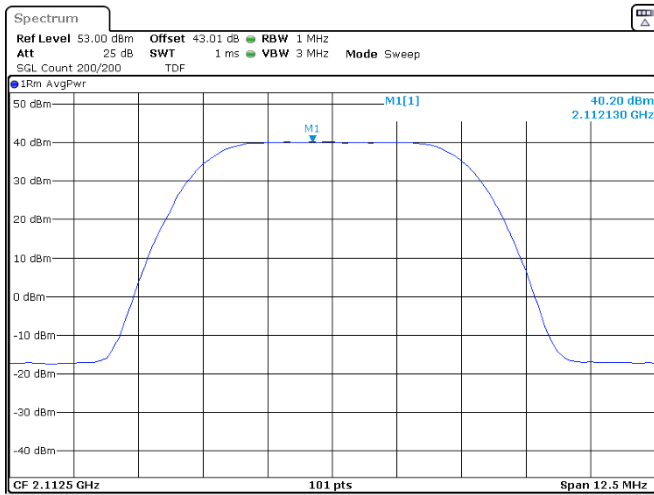
Average PSD, TX 2192.5 MHz, BW: 15MHz, MOD: 64QAM



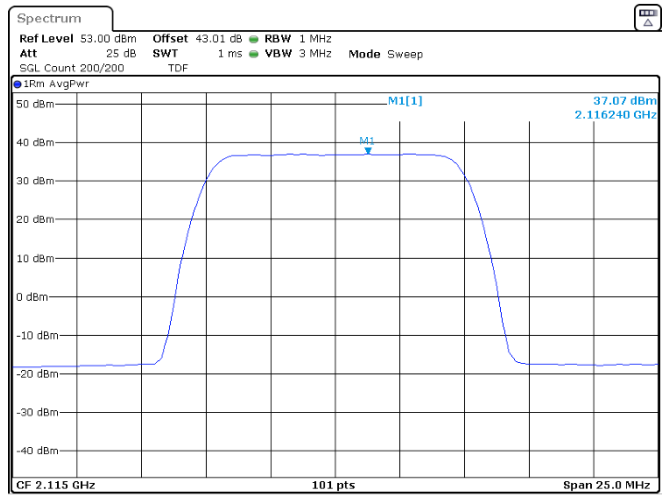
Average PSD, TX 2190 MHz, BW: 20MHz, MOD: 64QAM

Section 8
Test name
Specification

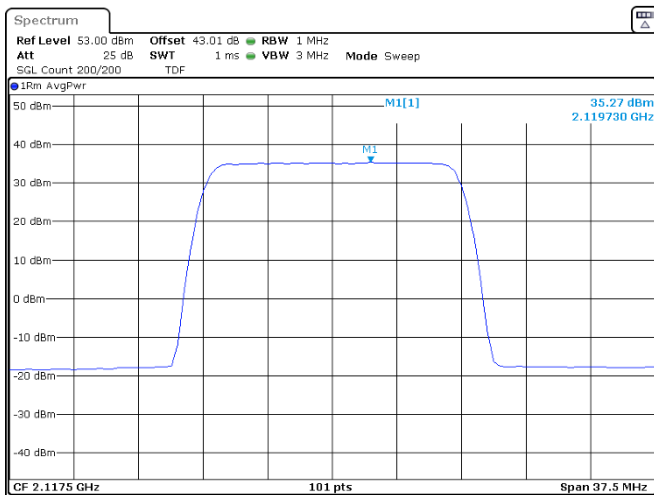
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



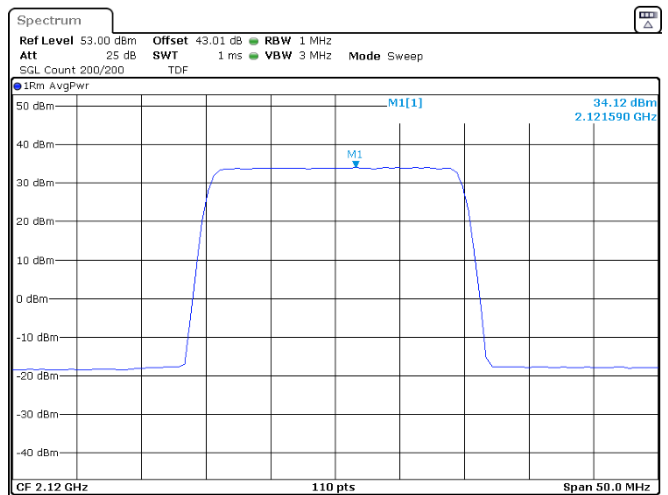
Average PSD, TX 2112.5 MHz, BW: 5MHz, MOD: 256QAM



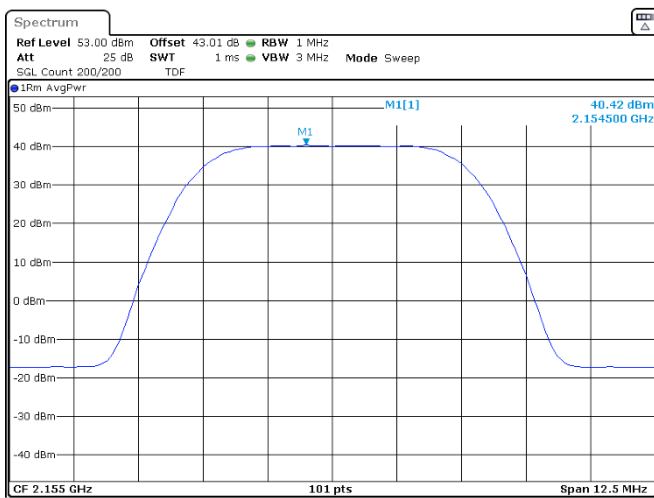
Average PSD, TX 2115 MHz, BW: 10MHz, MOD: 256QAM



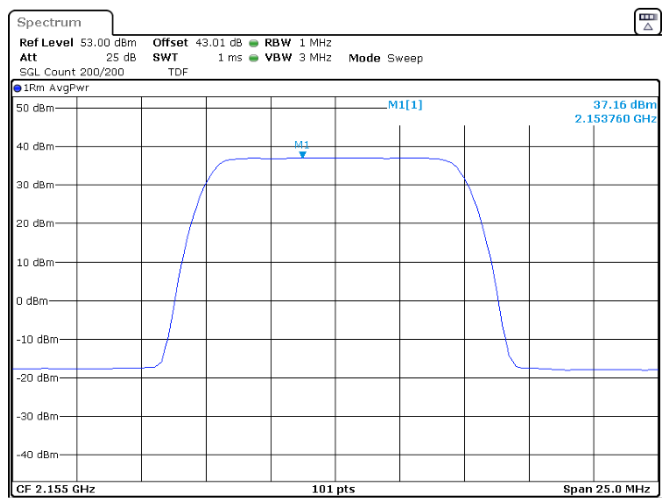
Average PSD, TX 2117.5 MHz, BW: 15MHz, MOD: 256QAM



Average PSD, TX 2120 MHz, BW: 20MHz, MOD: 256QAM



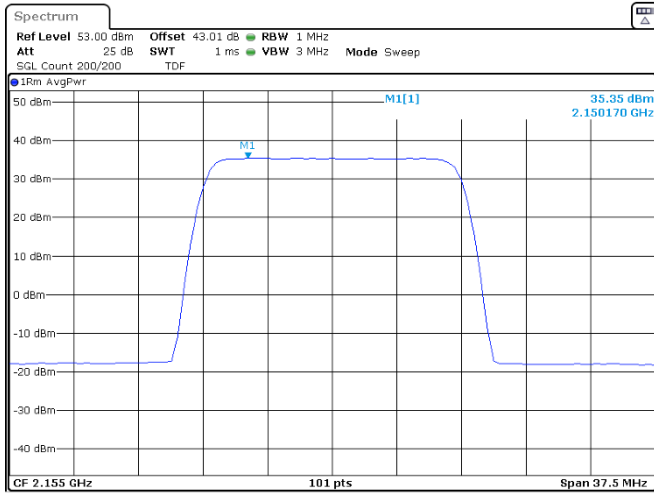
Average PSD, TX 2155 MHz, BW: 5MHz, MOD: 256QAM



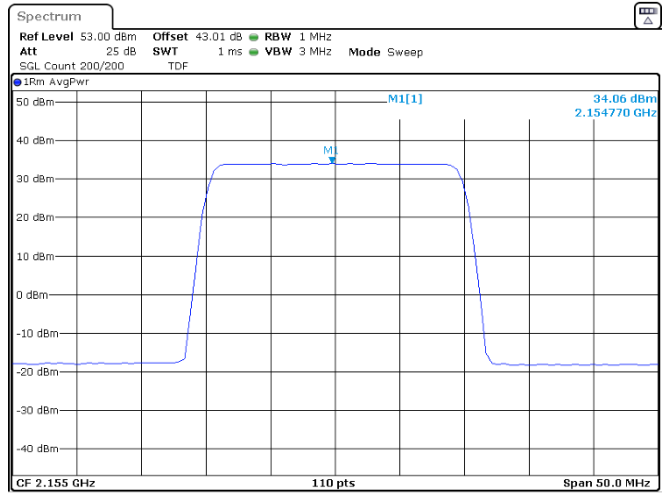
Average PSD, TX 2155 MHz, BW: 10MHz, MOD: 256QAM

Section 8
Test name
Specification

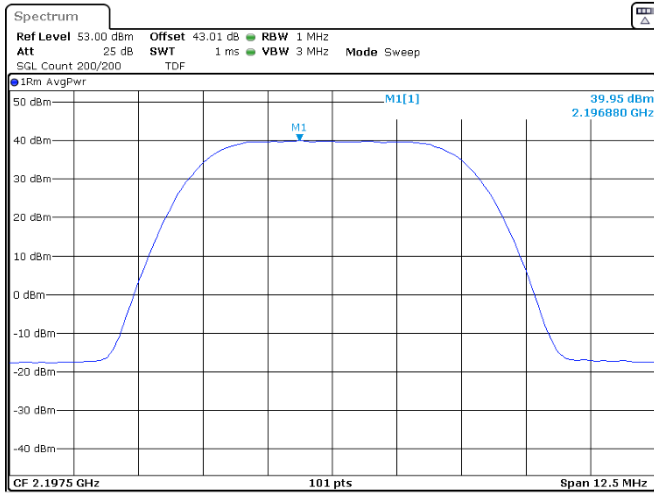
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



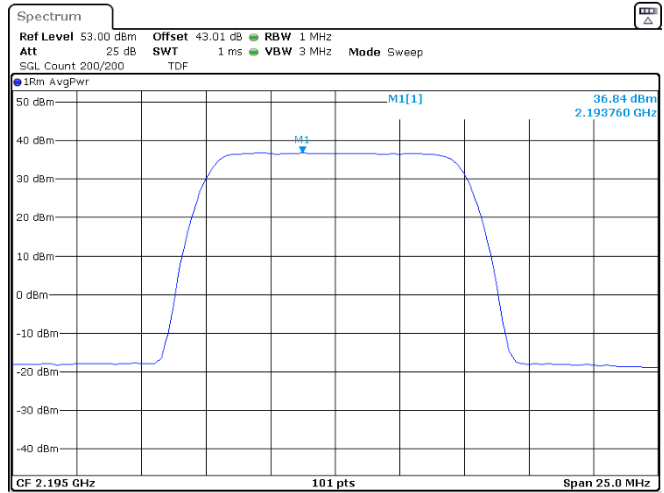
Average PSD, TX 2155 MHz, BW: 15MHz, MOD: 256QAM



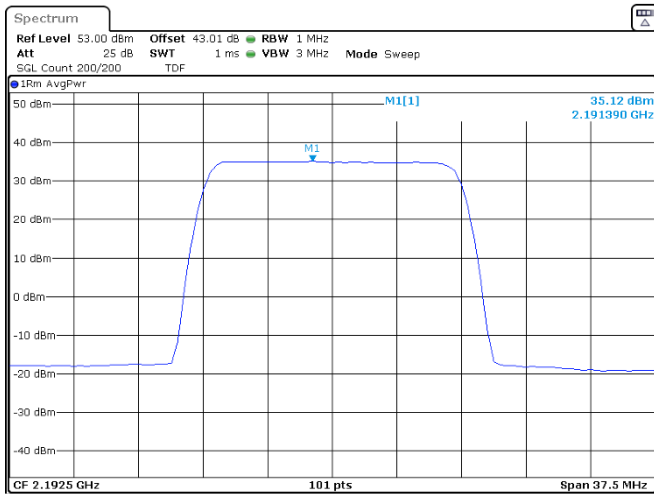
Average PSD, TX 2155 MHz, BW: 20MHz, MOD: 256QAM



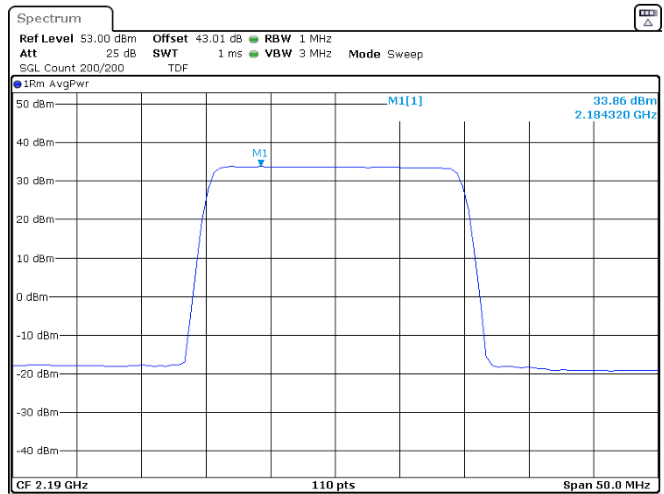
Average PSD, TX 2197.5 MHz, BW: 5MHz, MOD: 256QAM



Average PSD, TX 2195 MHz, BW: 10MHz, MOD: 256QAM



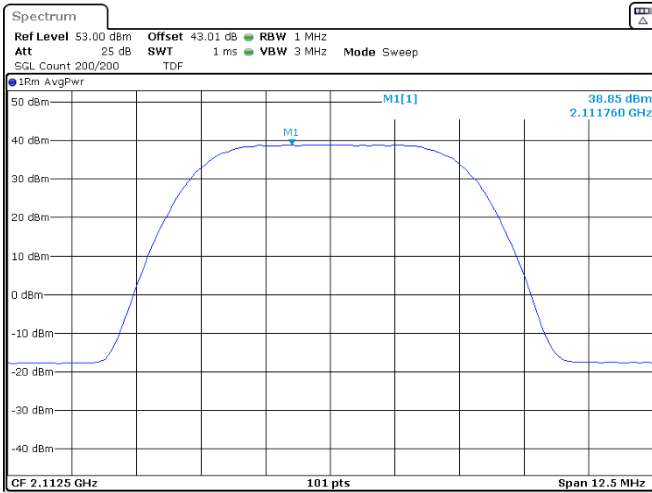
Average PSD, TX 2192.5 MHz, BW: 15MHz, MOD: 256QAM



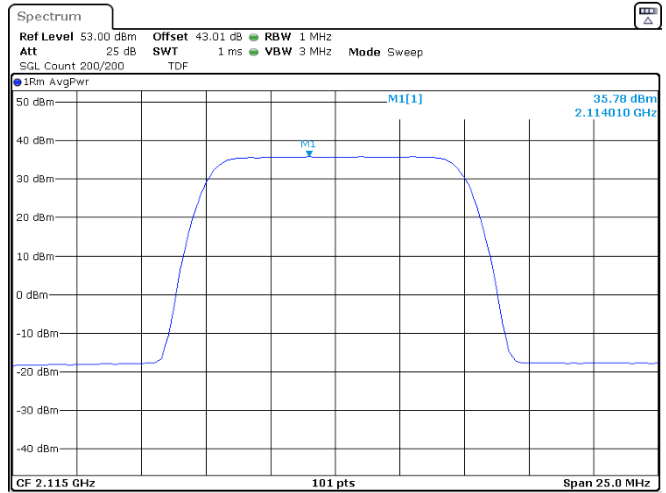
Average PSD, TX 2190 MHz, BW: 20MHz, MOD: 256QAM

Section 8
Test name
Specification

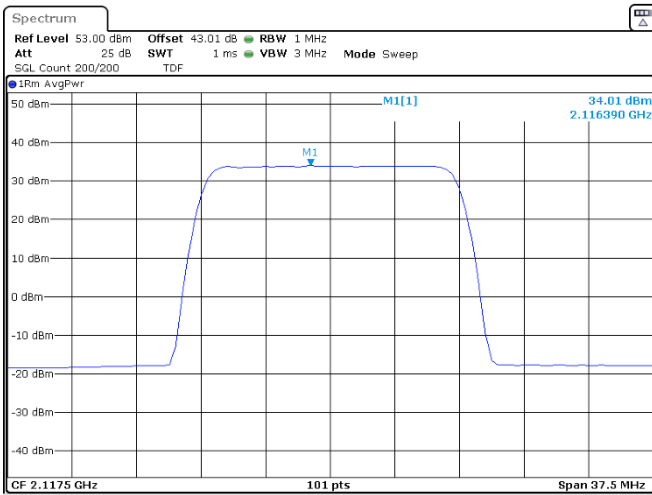
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



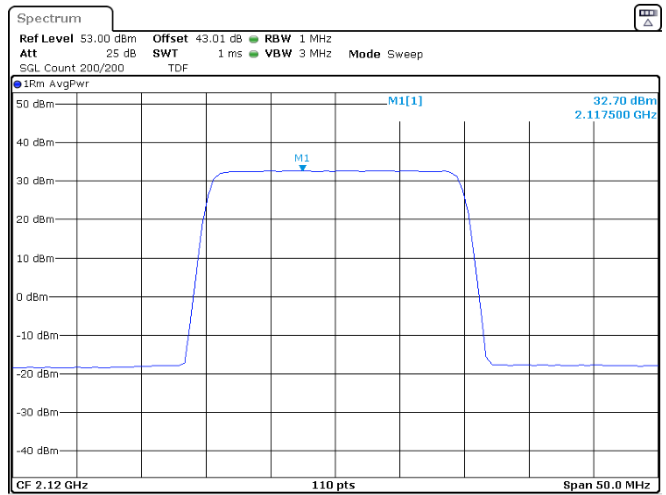
Average PSD, TX 2112.5 MHz, BW: 5MHz, MOD: 1024QAM



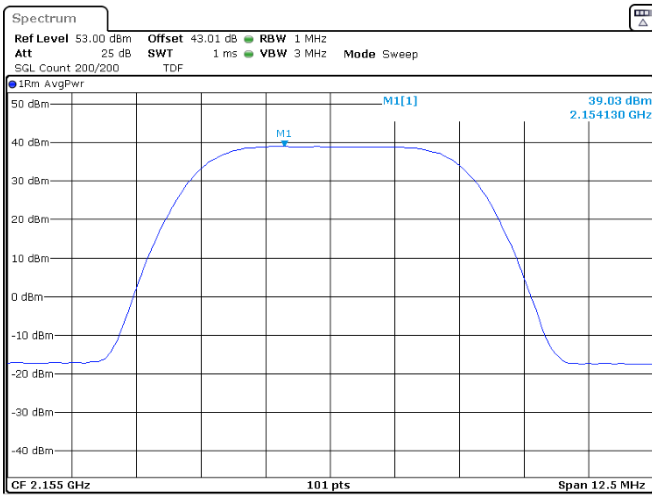
Average PSD, TX 2115 MHz, BW: 10MHz, MOD: 1024QAM



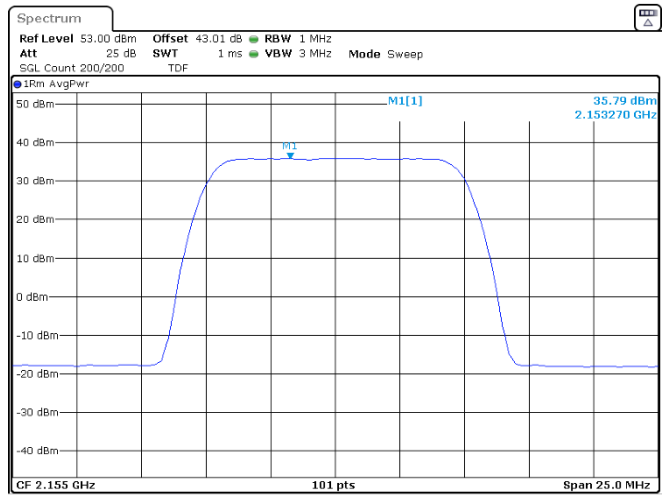
Average PSD, TX 2117.5 MHz, BW: 15MHz, MOD: 1024QAM



Average PSD, TX 2120 MHz, BW: 20MHz, MOD: 1024QAM



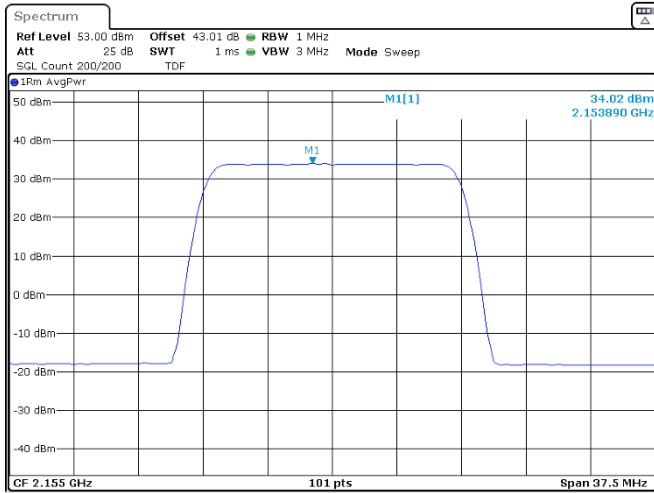
Average PSD, TX 2155 MHz, BW: 5MHz, MOD: 1024QAM



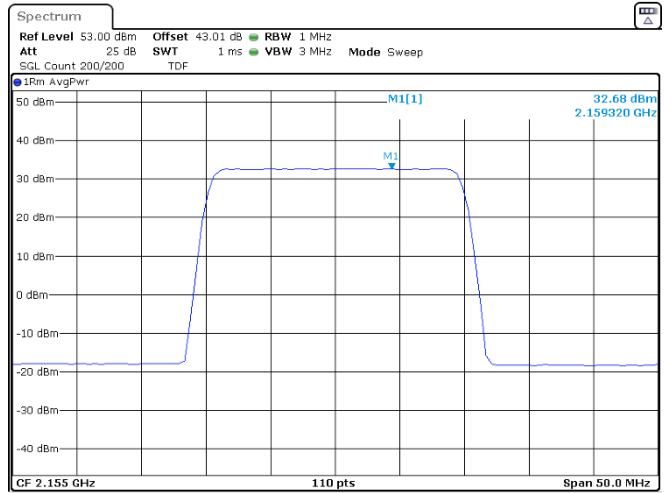
Average PSD, TX 2155 MHz, BW: 10MHz, MOD: 1024QAM

Section 8
Test name
Specification

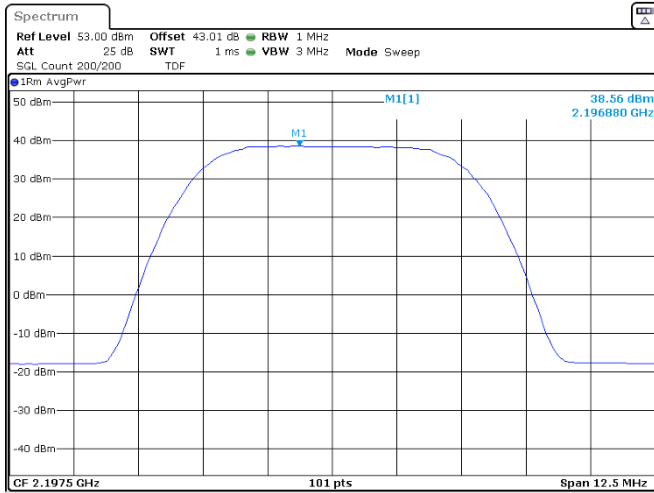
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



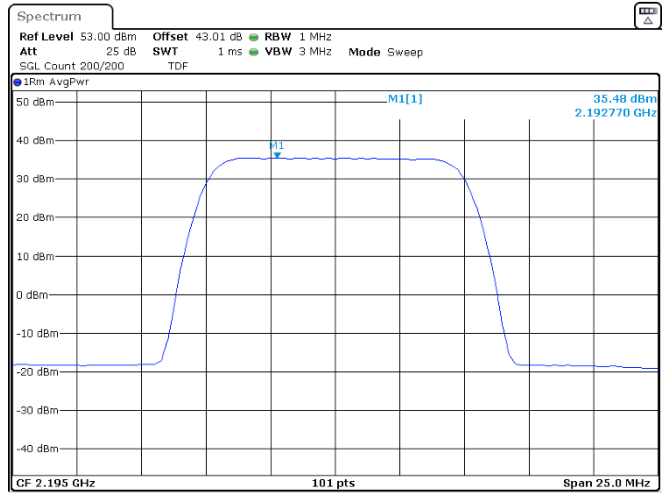
Average PSD, TX 2155 MHz, BW: 15MHz, MOD: 1024QAM



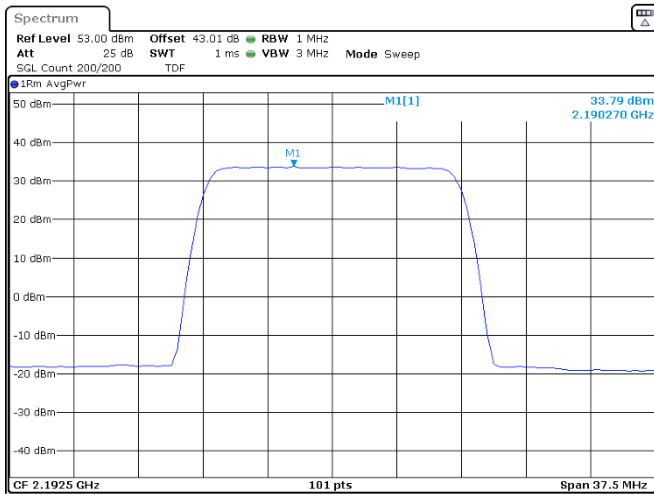
Average PSD, TX 2155 MHz, BW: 20MHz, MOD: 1024QAM



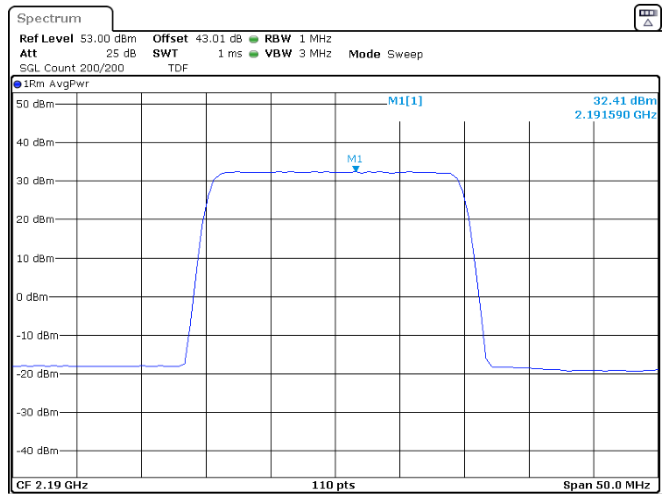
Average PSD, TX 2197.5 MHz, BW: 5MHz, MOD: 1024QAM



Average PSD, TX 2195 MHz, BW: 10MHz, MOD: 1024QAM



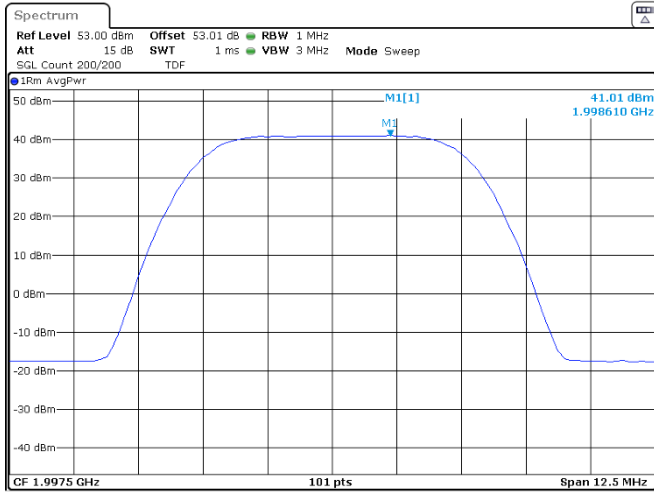
Average PSD, TX 2192.5 MHz, BW: 15MHz, MOD: 1024QAM



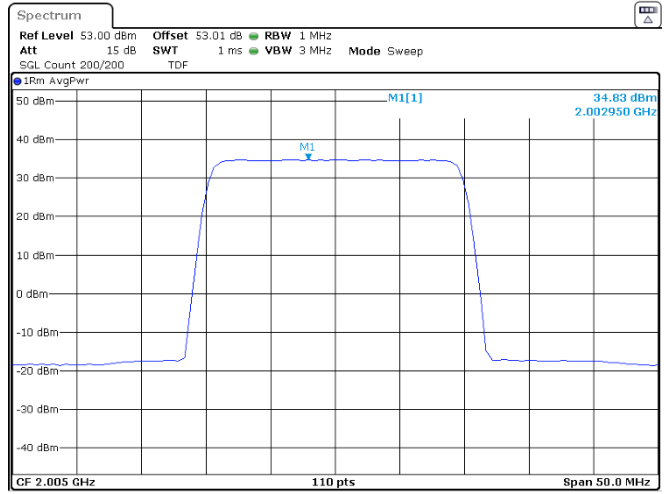
Average PSD, TX 2190 MHz, BW: 20MHz, MOD: 1024QAM



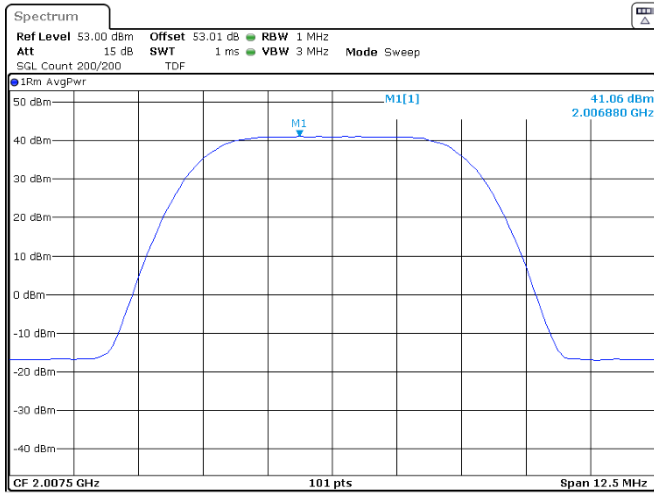
Power density plots (Band 70):



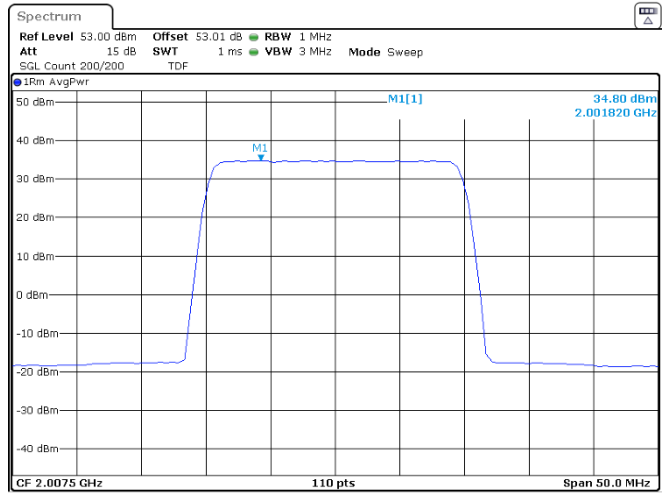
Average PSD, TX 1997.5 MHz, BW: 5MHz, MOD: QPSK



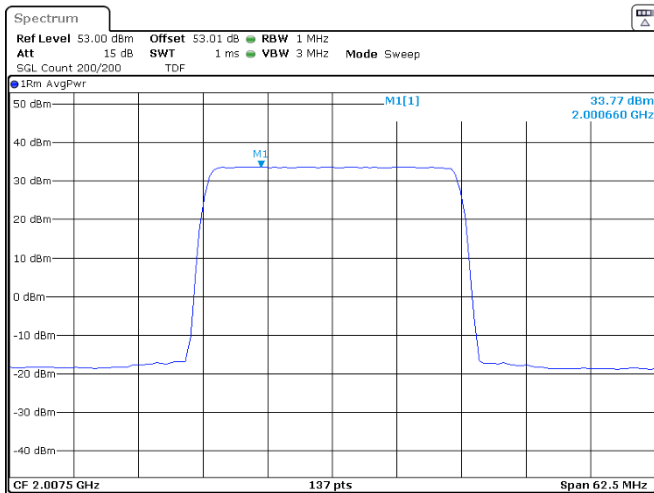
Average PSD, TX 2005 MHz, BW: 20MHz, MOD: QPSK



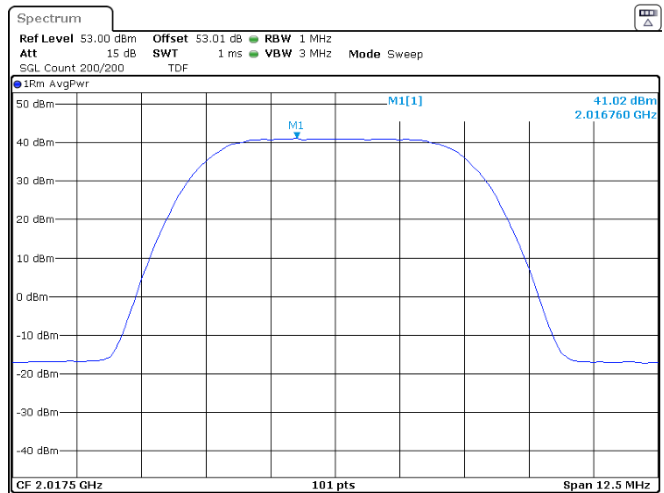
Average PSD, TX 2007.5 MHz, BW: 5MHz, MOD: QPSK



Average PSD, TX 2007.5 MHz, BW: 20MHz, MOD: QPSK



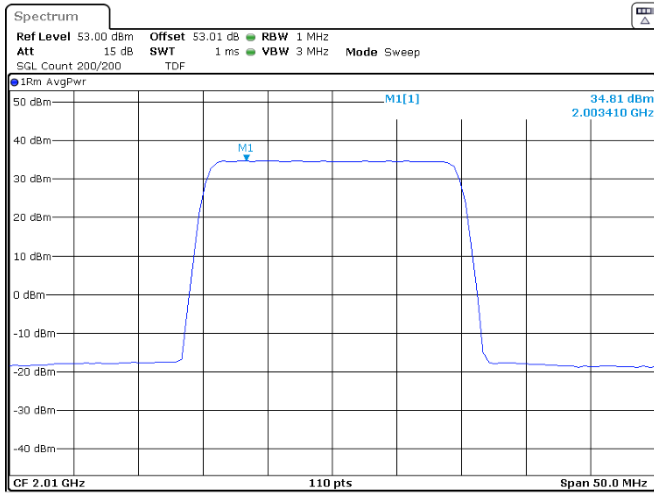
Average PSD, TX 2007.5 MHz, BW: 25MHz, MOD: QPSK



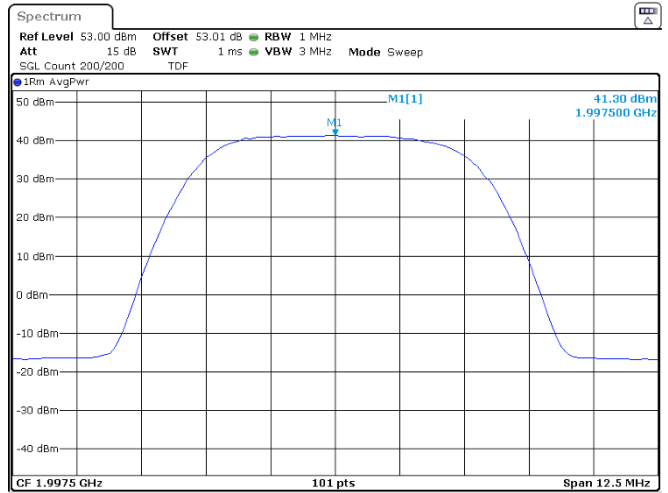
Average PSD, TX 2017.5 MHz, BW: 5MHz, MOD: QPSK

Section 8
Test name
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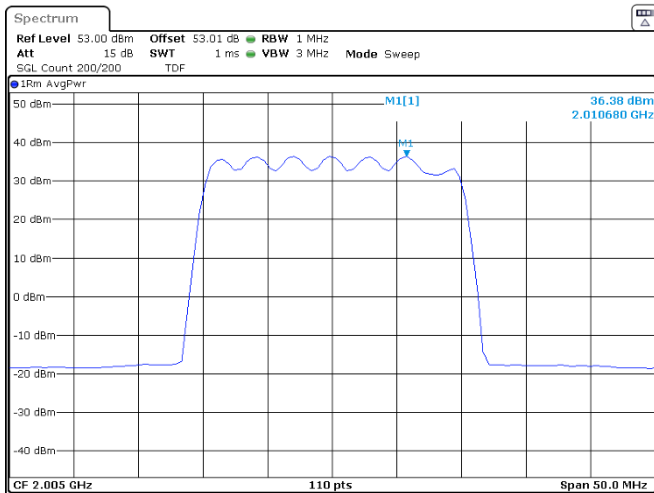
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



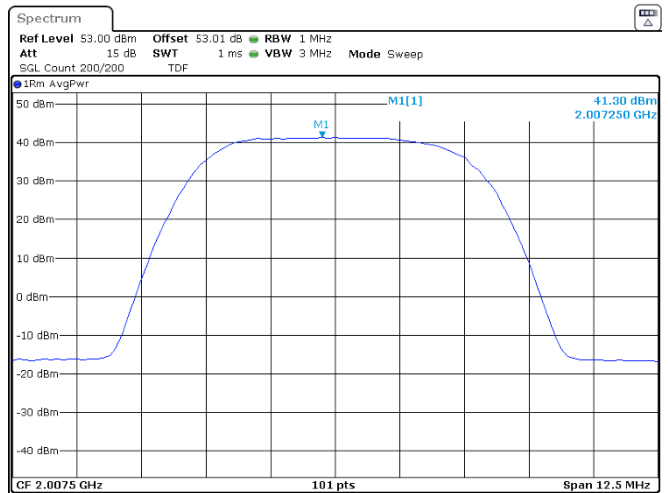
Average PSD, TX 2010 MHz, BW: 20MHz, MOD: QPSK



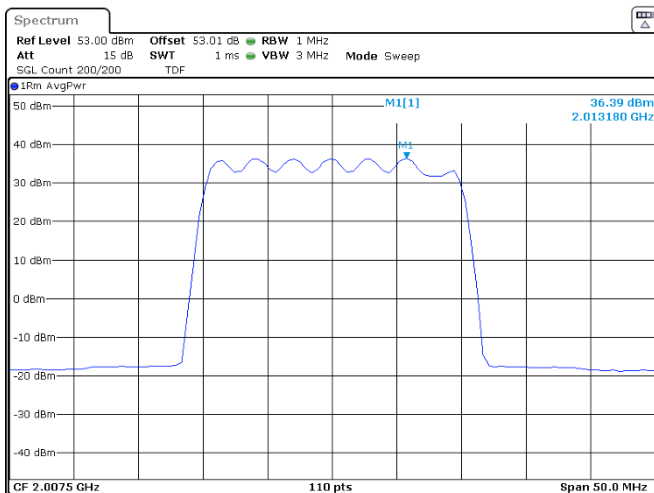
Average PSD, TX 1997.5 MHz, BW: 5MHz, MOD: 16QAM



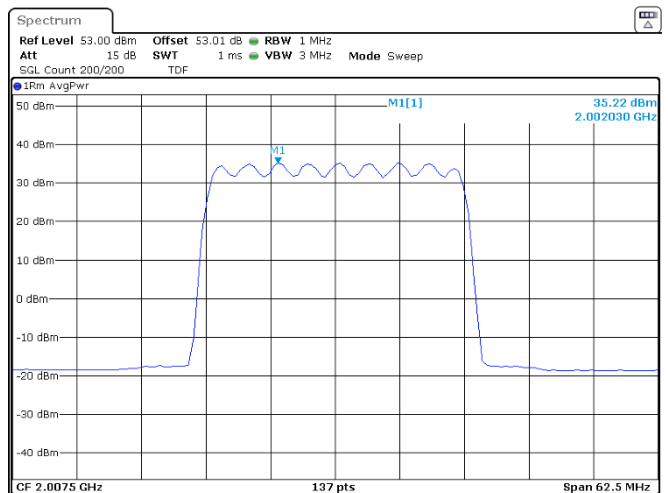
Average PSD, TX 2005 MHz, BW: 20MHz, MOD: 16QAM



Average PSD, TX 2007.5 MHz, BW: 5MHz, MOD: 16QAM



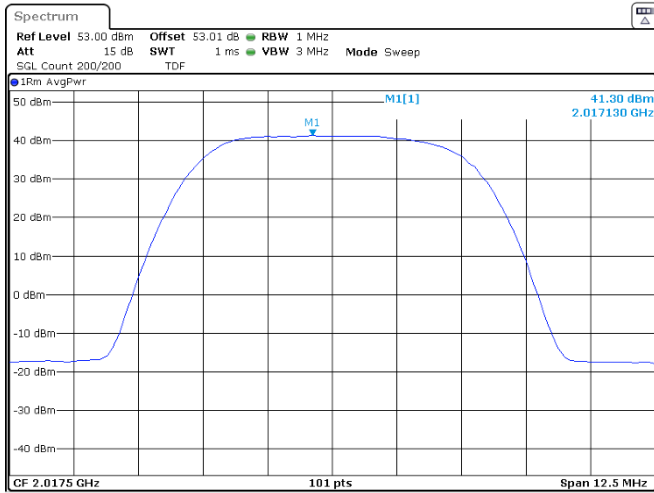
Average PSD, TX 2007.5 MHz, BW: 20MHz, MOD: 16QAM



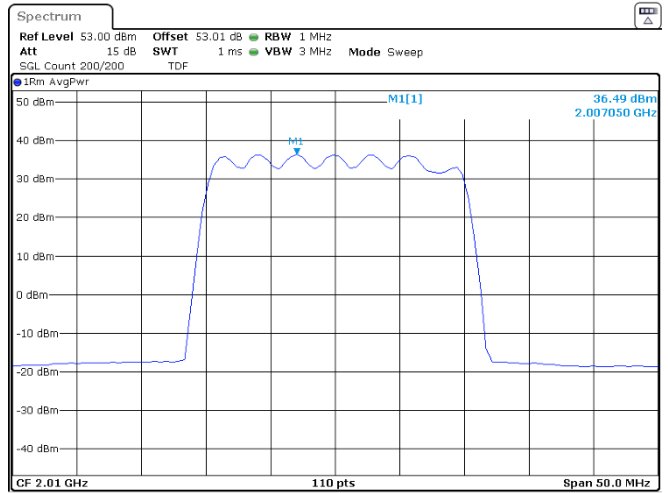
Average PSD, TX 2007.5 MHz, BW: 25MHz, MOD: 16QAM

Section 8
Test name
Specification

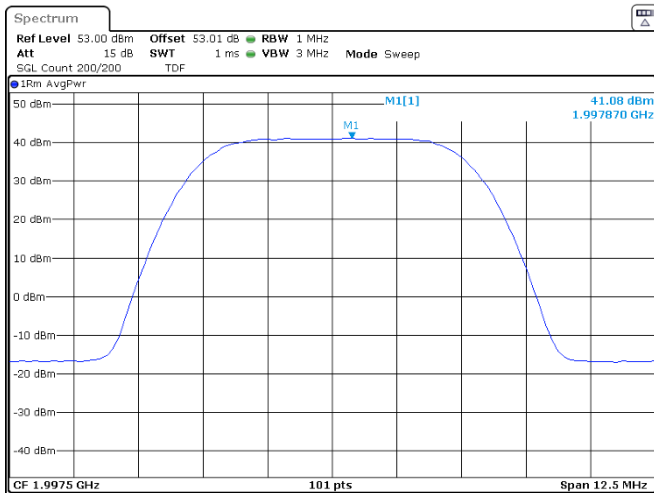
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



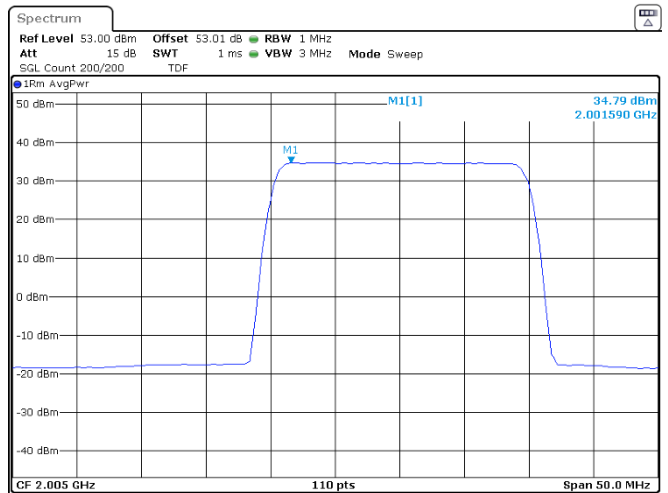
Average PSD, TX 2017.5 MHz, BW: 5MHz, MOD: 16QAM



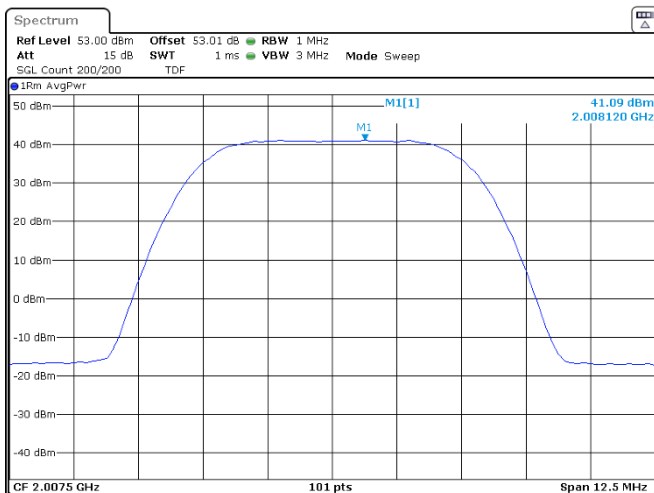
Average PSD, TX 2010 MHz, BW: 20MHz, MOD: 16QAM



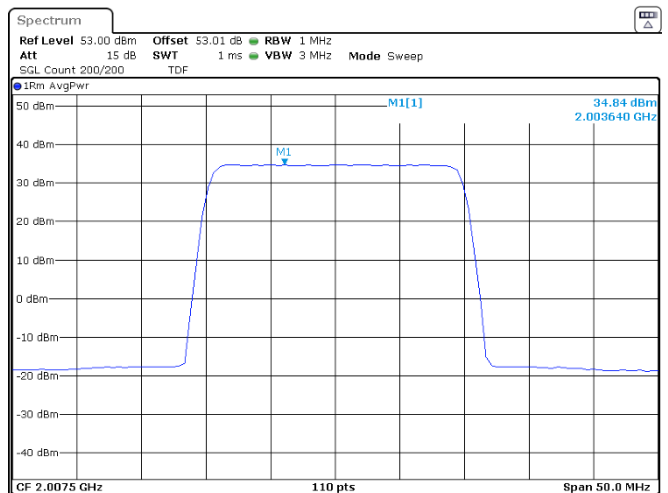
Average PSD, TX 1997.5 MHz, BW: 5MHz, MOD: 64QAM



Average PSD, TX 2005 MHz, BW: 20MHz, MOD: 64QAM



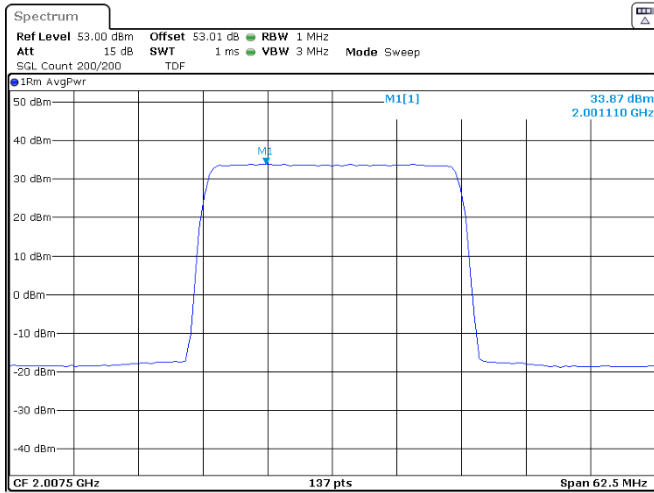
Average PSD, TX 2007.5 MHz, BW: 5MHz, MOD: 64QAM



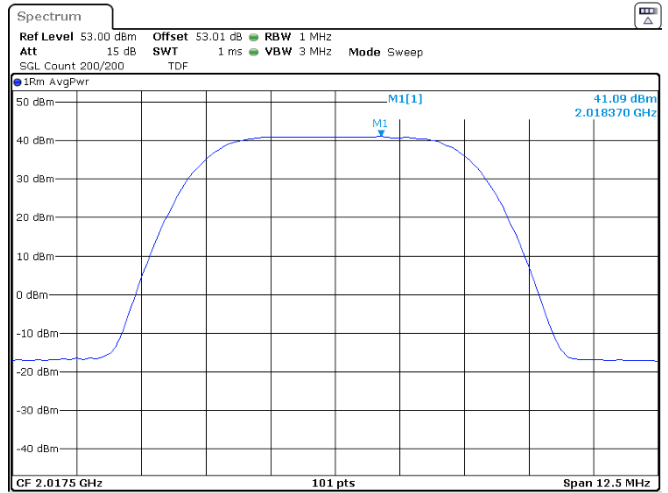
Average PSD, TX 2007.5 MHz, BW: 20MHz, MOD: 64QAM

Section 8
Test name
Specification

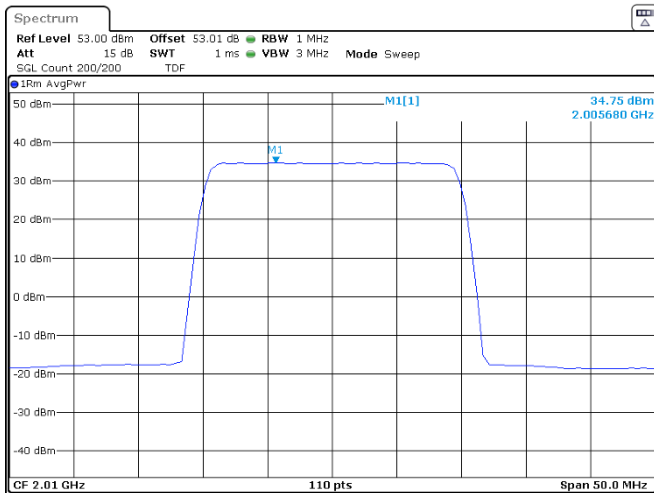
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



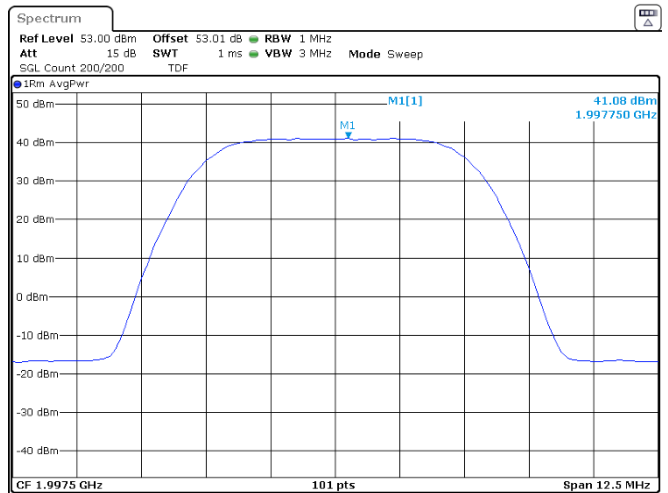
Average PSD, TX 2007.5 MHz, BW: 25MHz, MOD: 64QAM



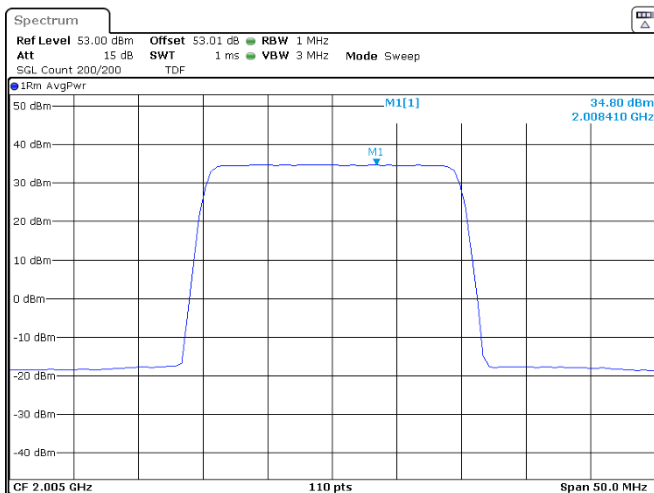
Average PSD, TX 2017.5 MHz, BW: 5MHz, MOD: 64QAM



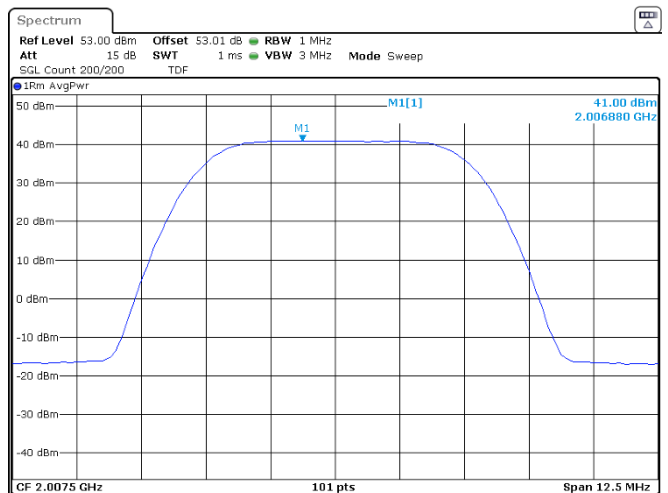
Average PSD, TX 2010 MHz, BW: 20MHz, MOD: 64QAM



Average PSD, TX 1997.5 MHz, BW: 5MHz, MOD: 256QAM



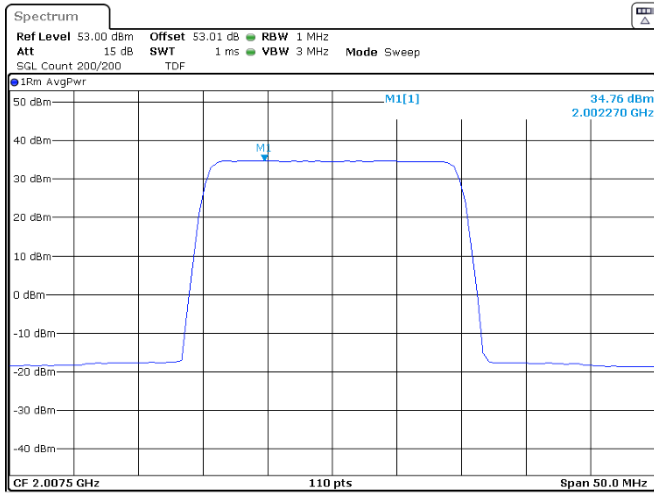
Average PSD, TX 2005 MHz, BW: 20MHz, MOD: 256QAM



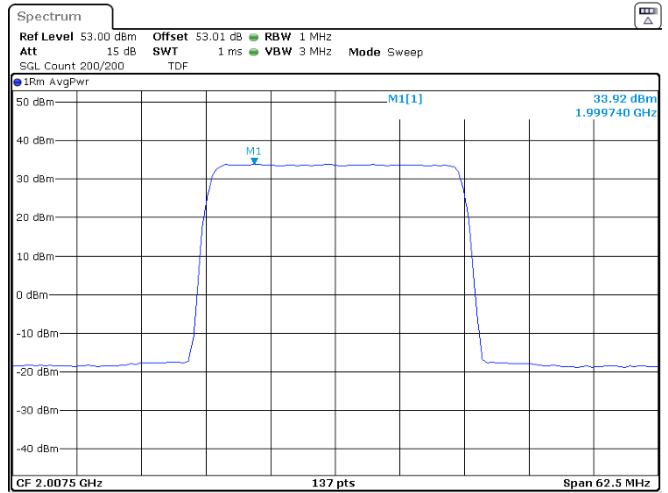
Average PSD, TX 2007.5 MHz, BW: 5MHz, MOD: 256QAM

Section 8
Test name
Specification

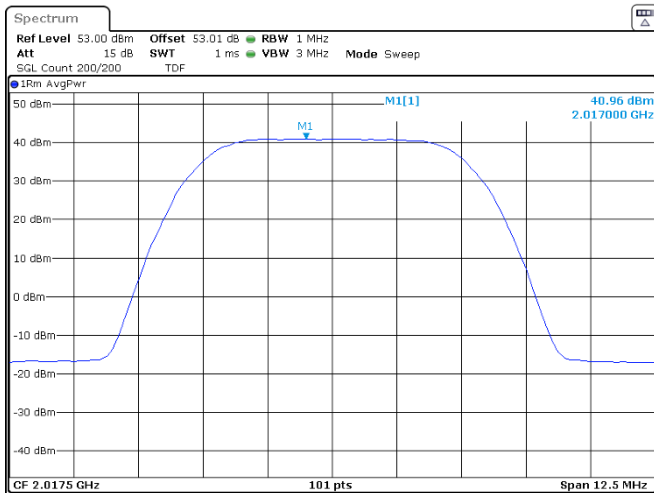
Testing data
 FCC 27.50(c)(3), (d)(2)(ii) Output power
 FCC Part 27



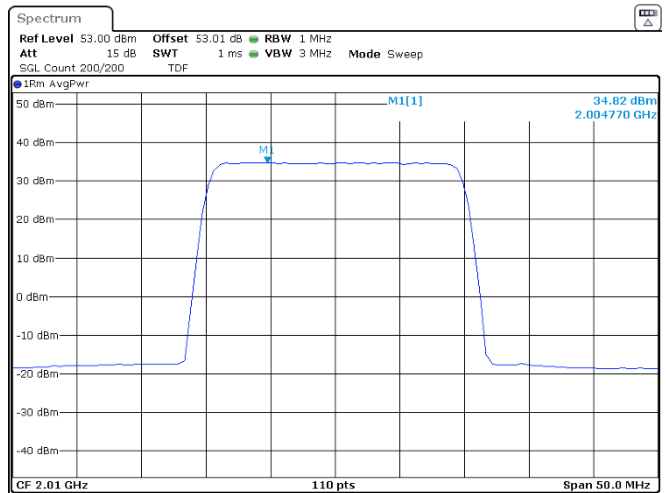
Average PSD, TX 2007.5 MHz, BW: 20MHz, MOD: 256QAM



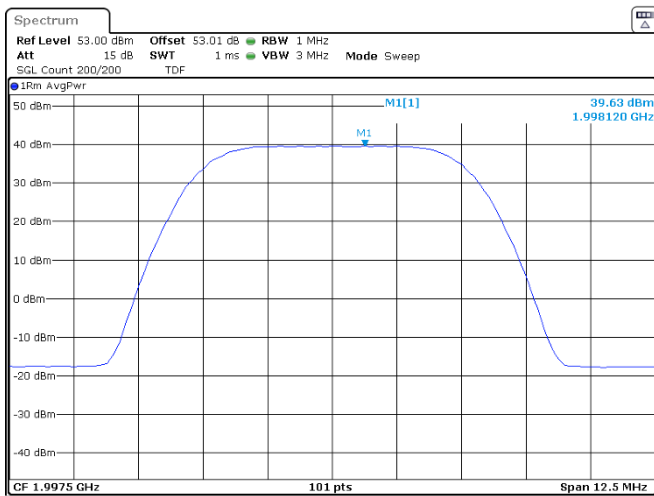
Average PSD, TX 2007.5 MHz, BW: 25MHz, MOD: 256QAM



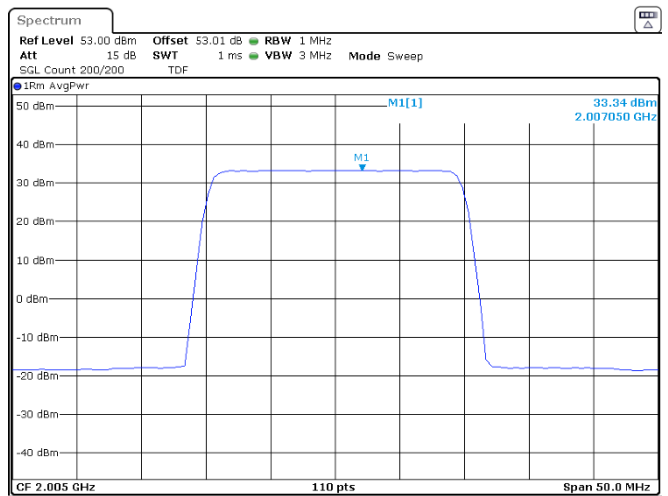
Average PSD, TX 2017.5 MHz, BW: 5MHz, MOD: 256QAM



Average PSD, TX 2010 MHz, BW: 20MHz, MOD: 256QAM



Average PSD, TX 1997.5 MHz, BW: 5MHz, MOD: 1024QAM



Average PSD, TX 2005 MHz, BW: 20MHz, MOD: 1024QAM