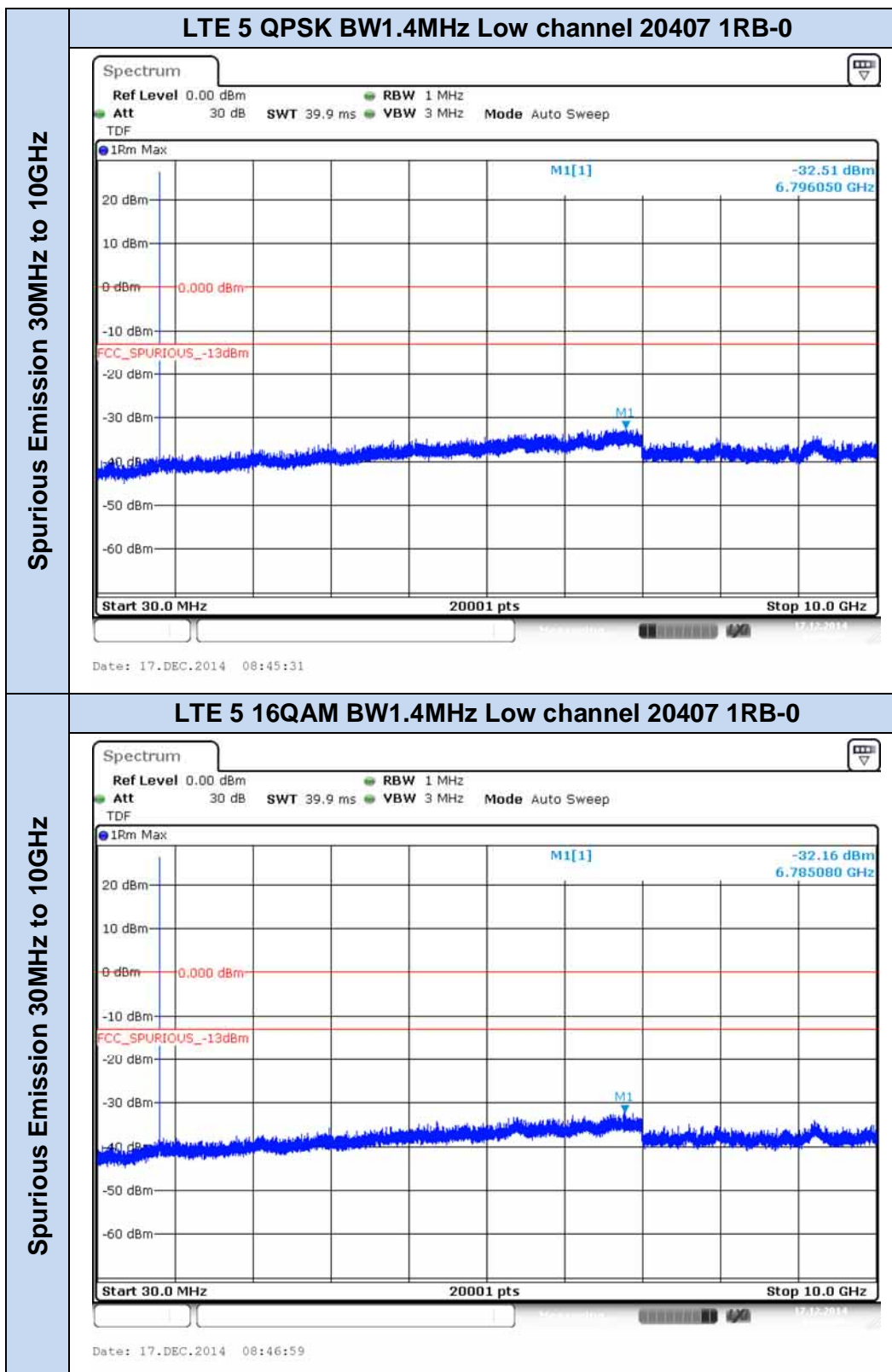
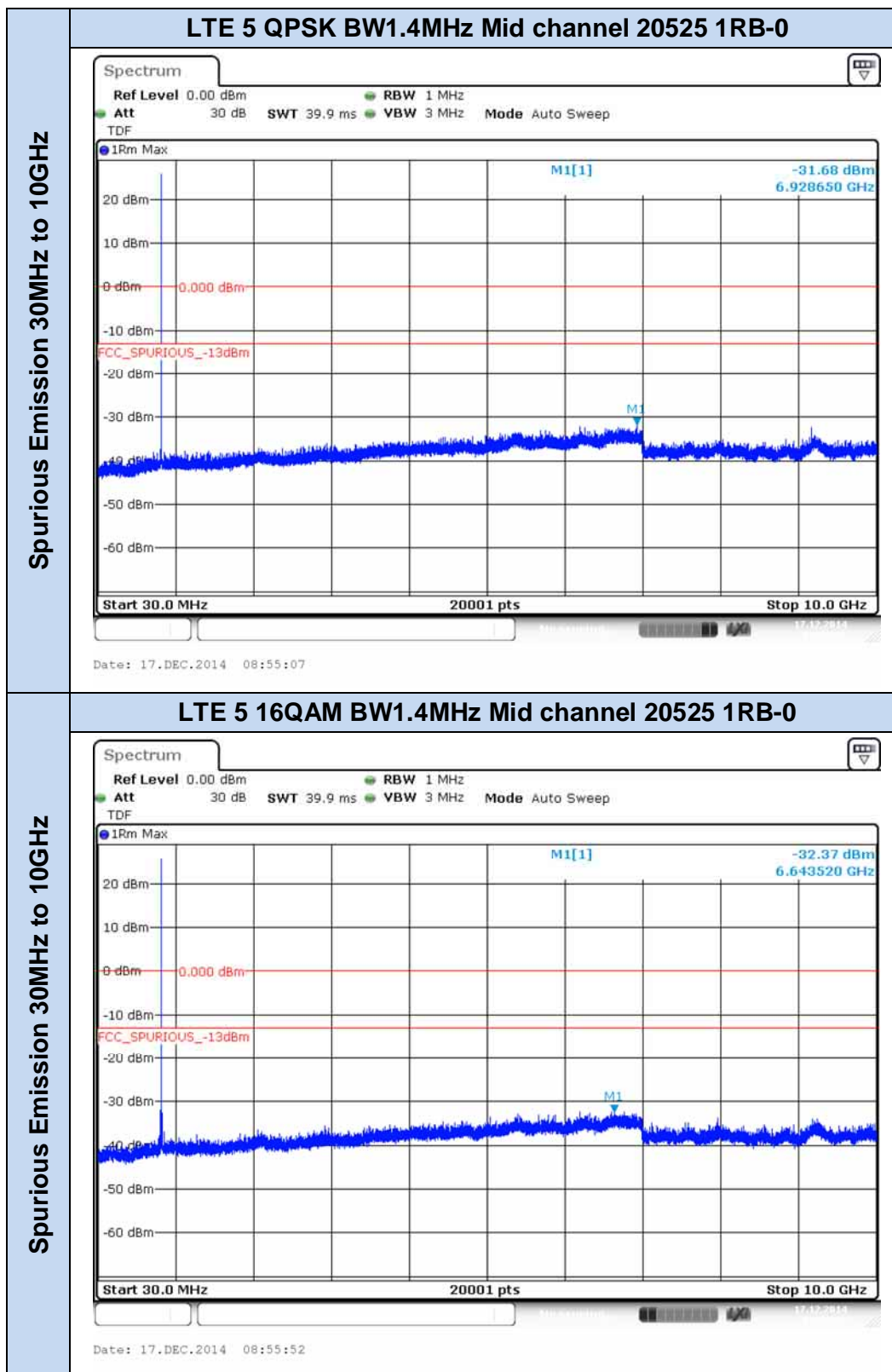
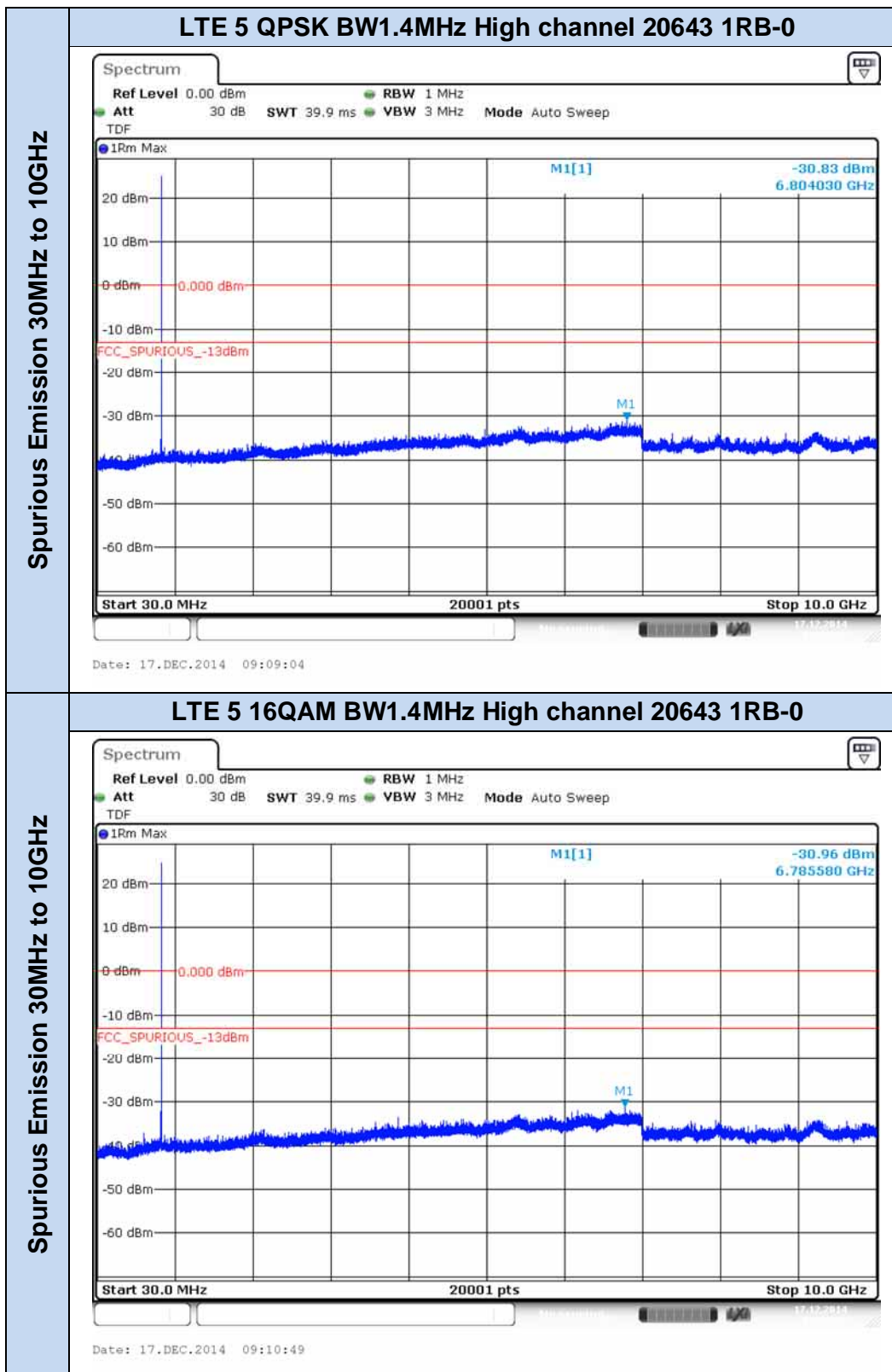
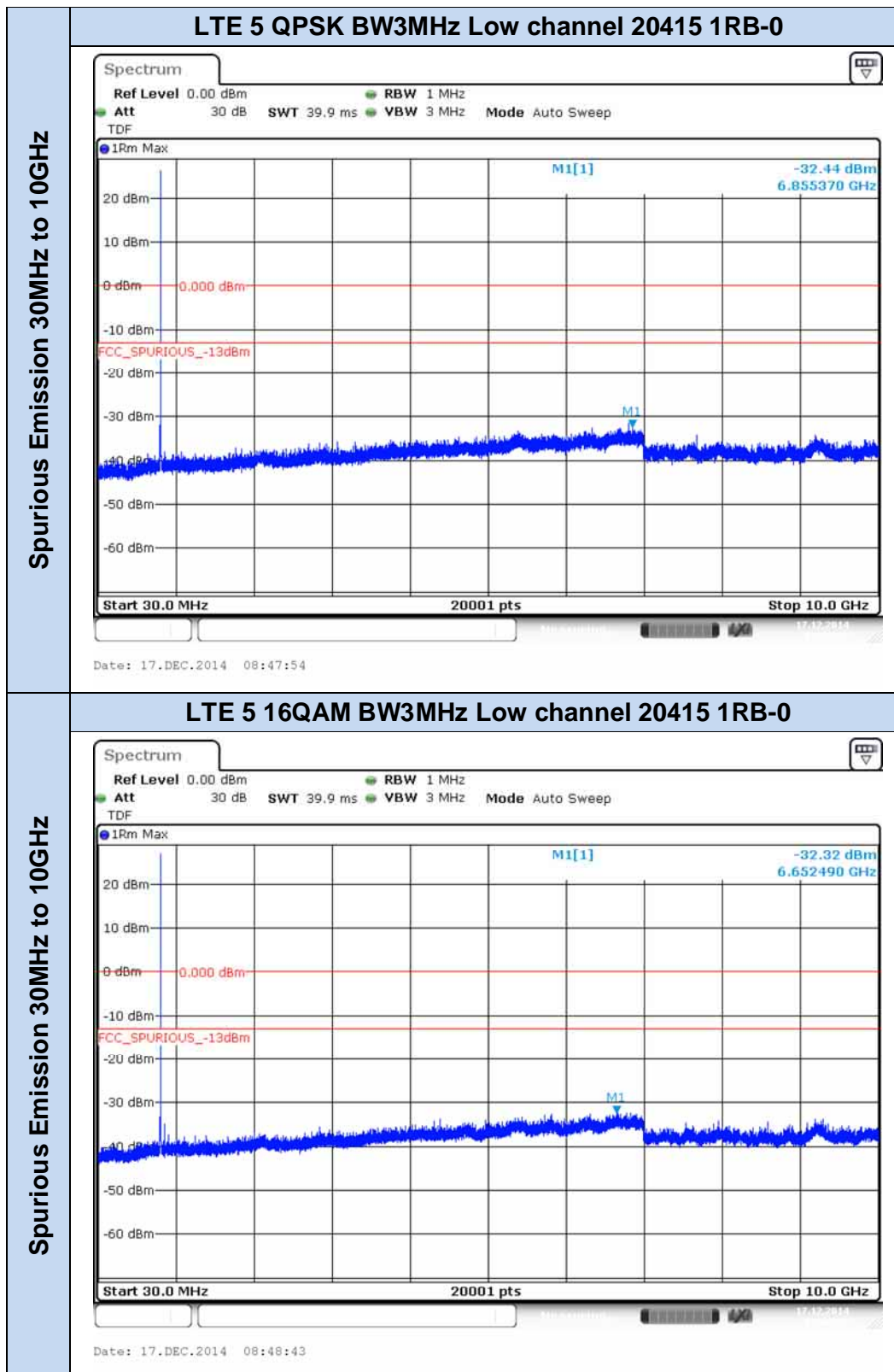


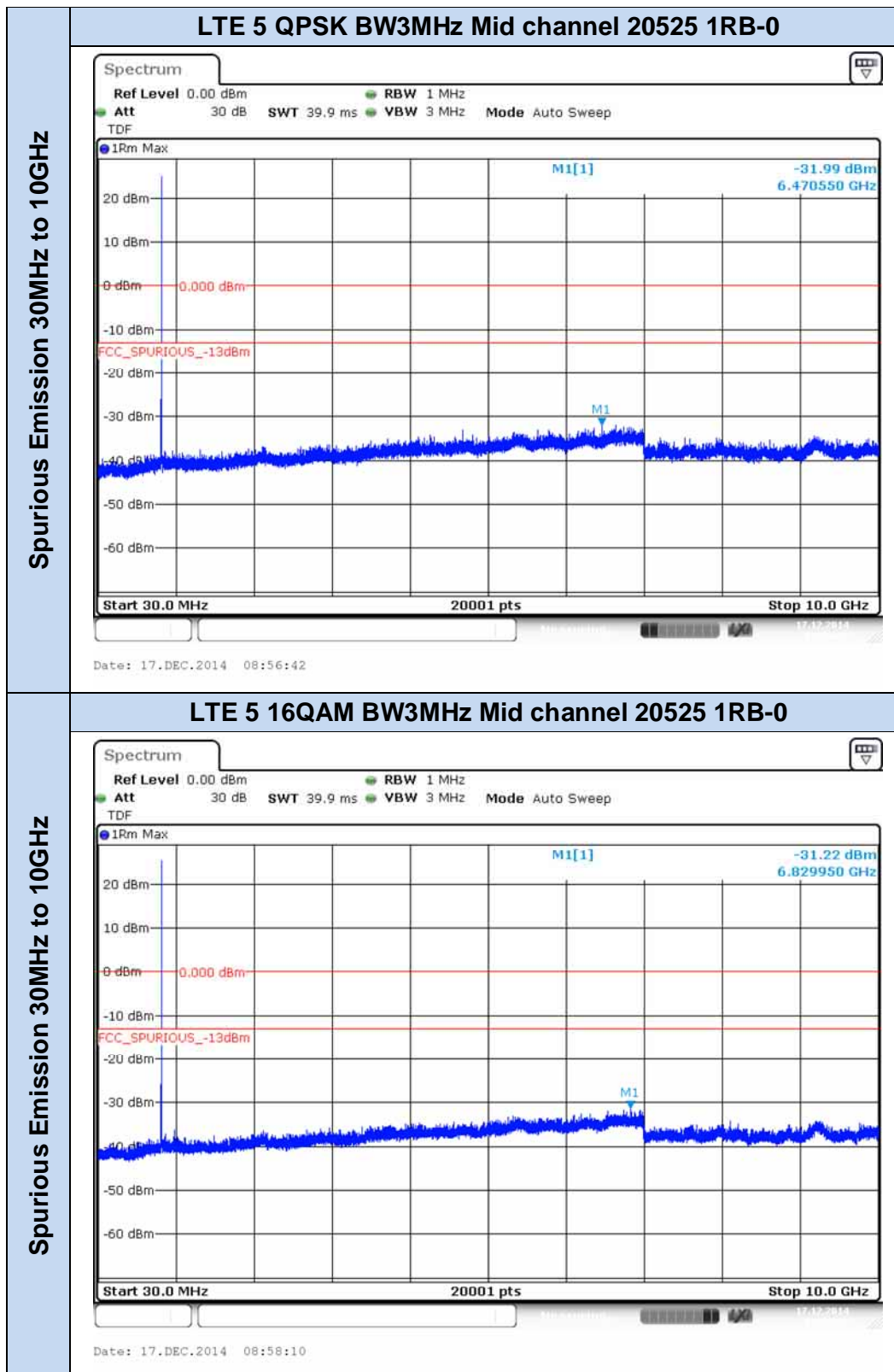
LTE Band 5

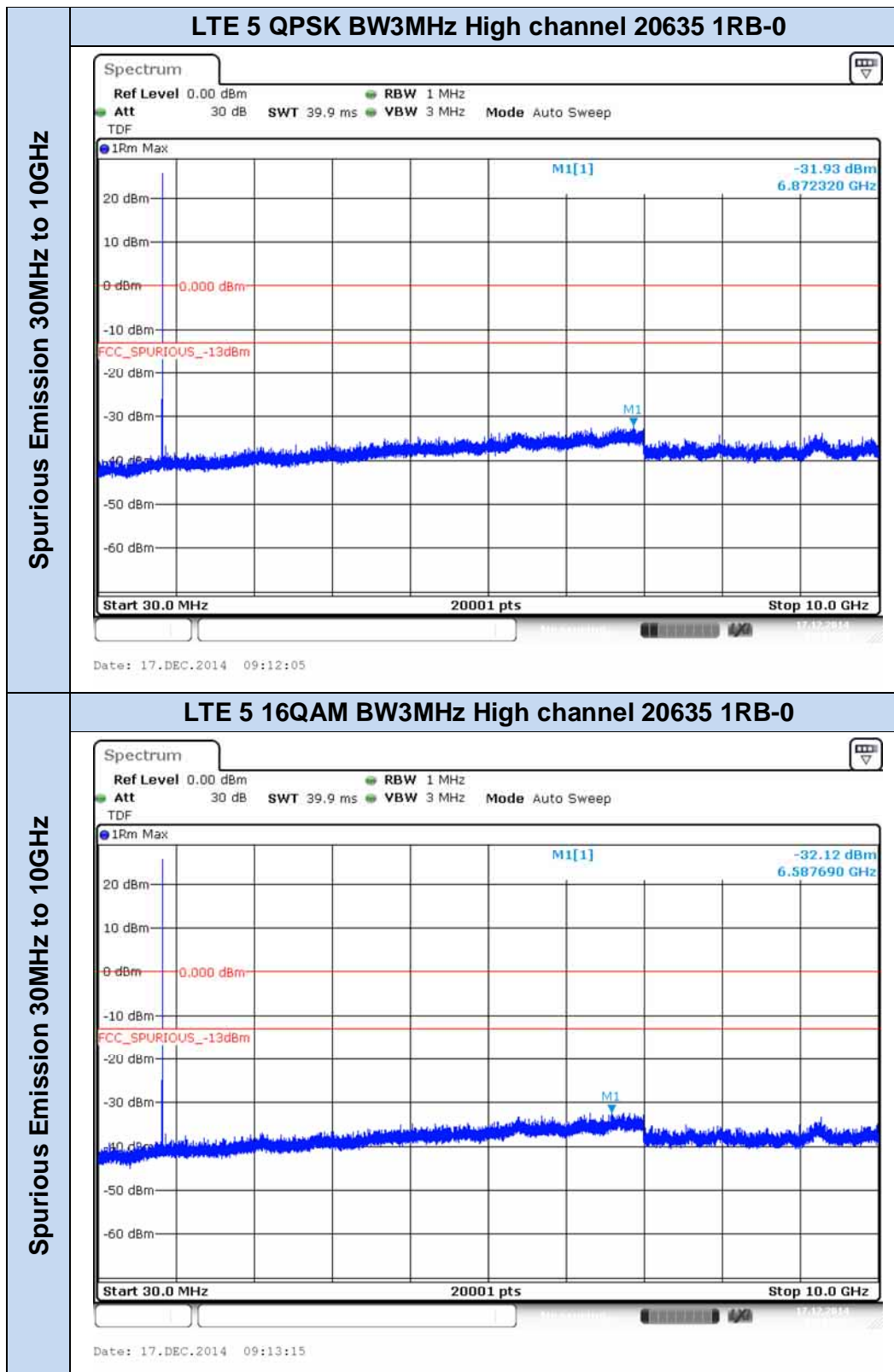


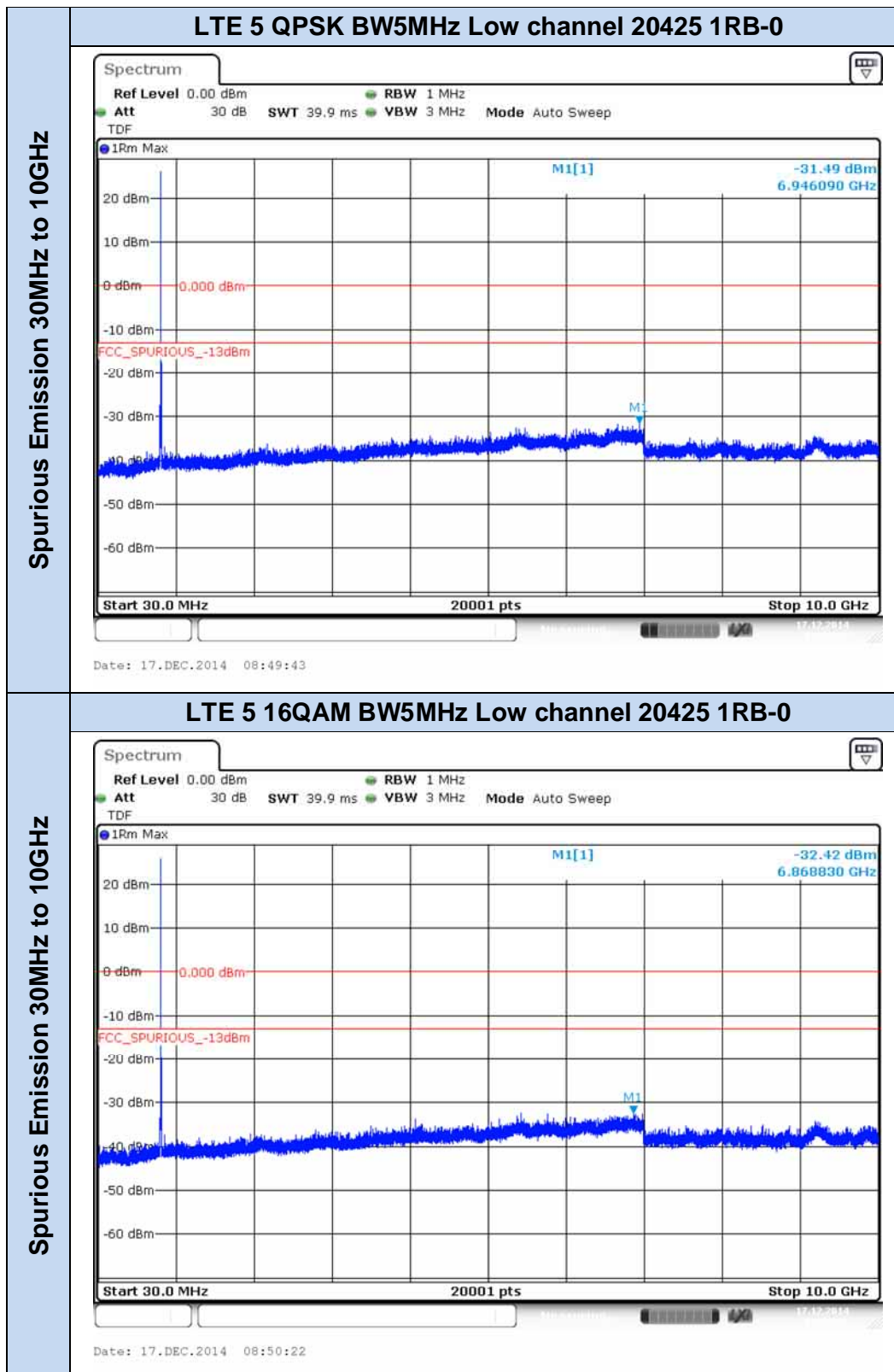


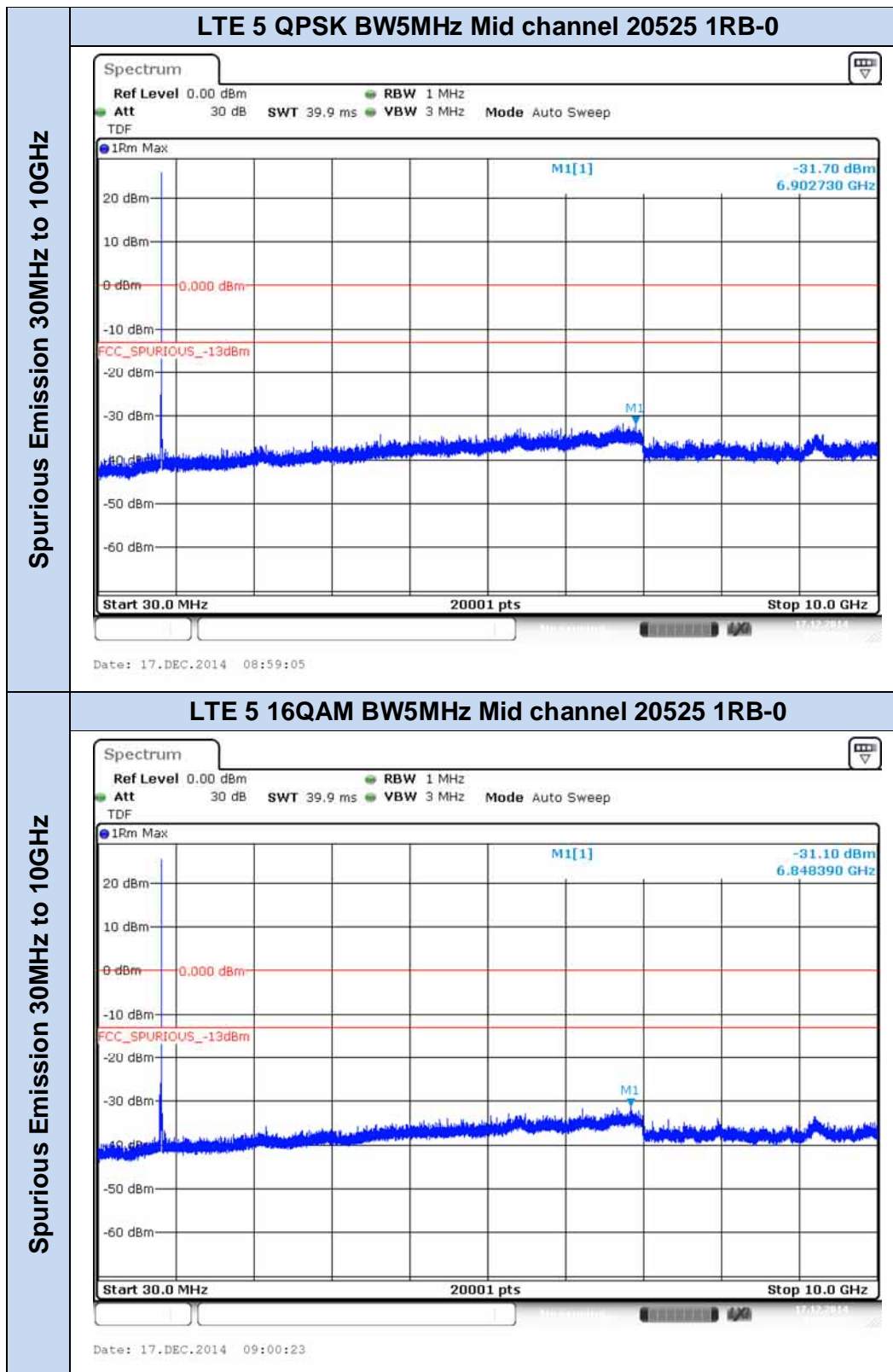


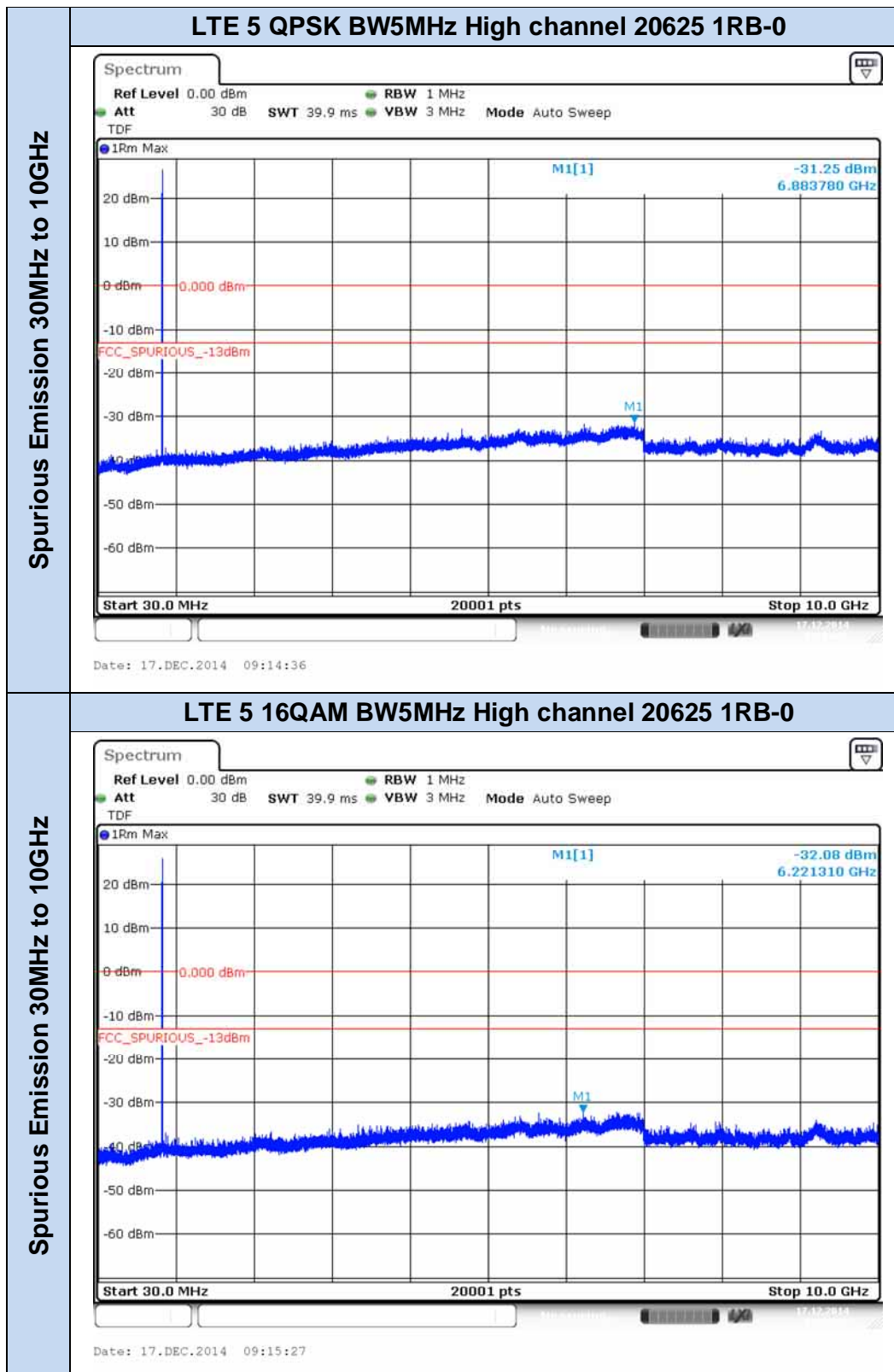


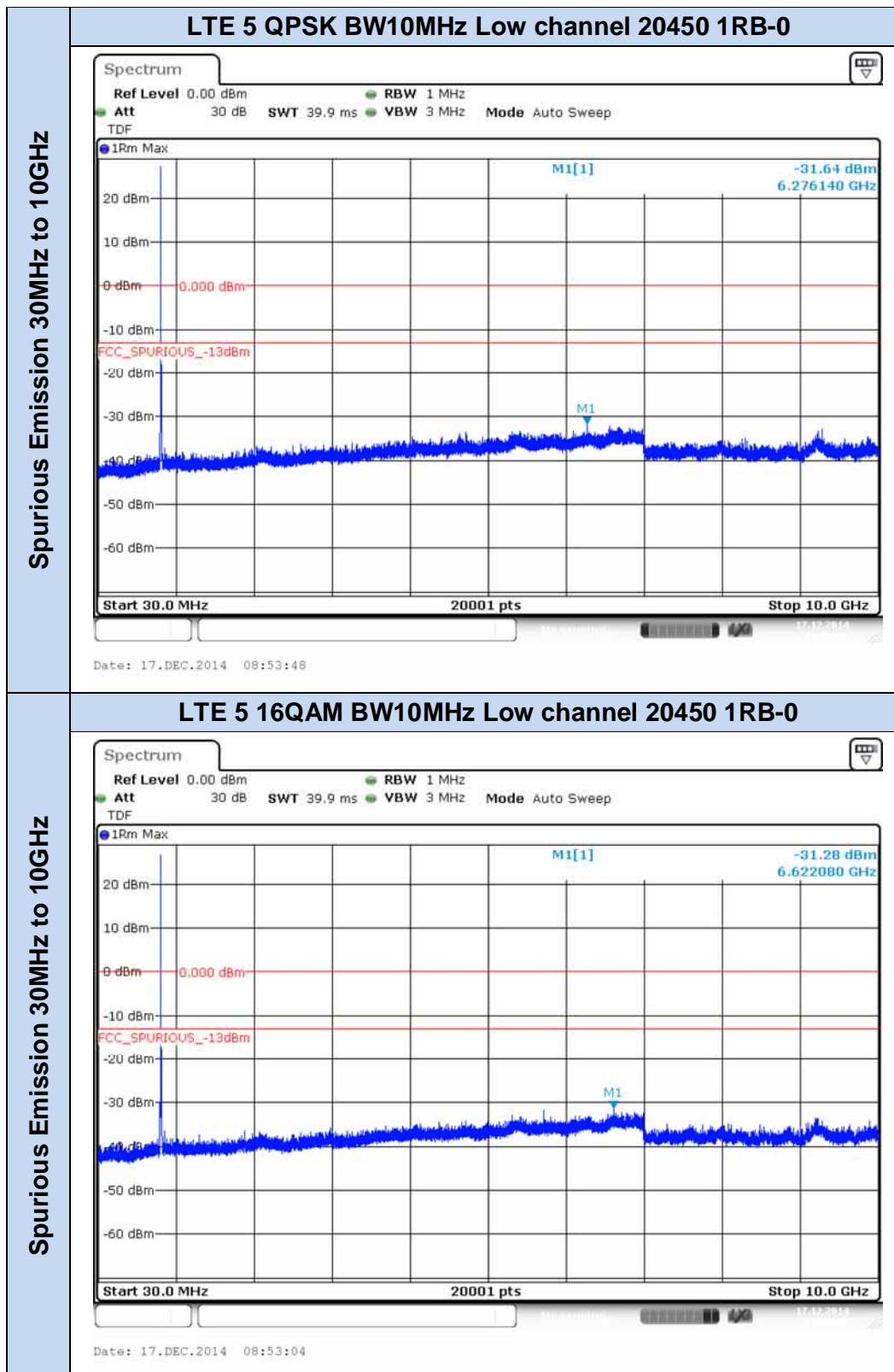


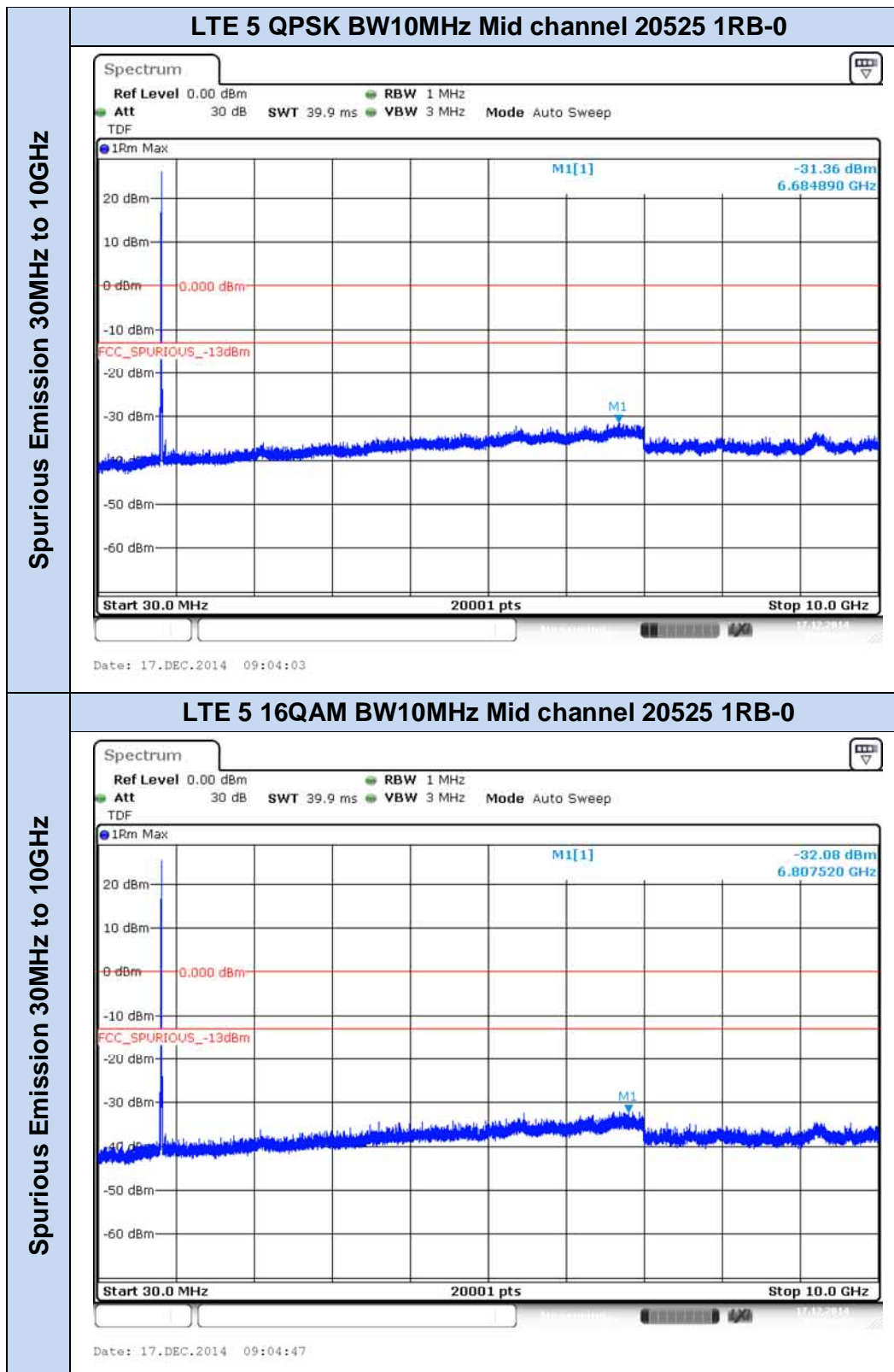


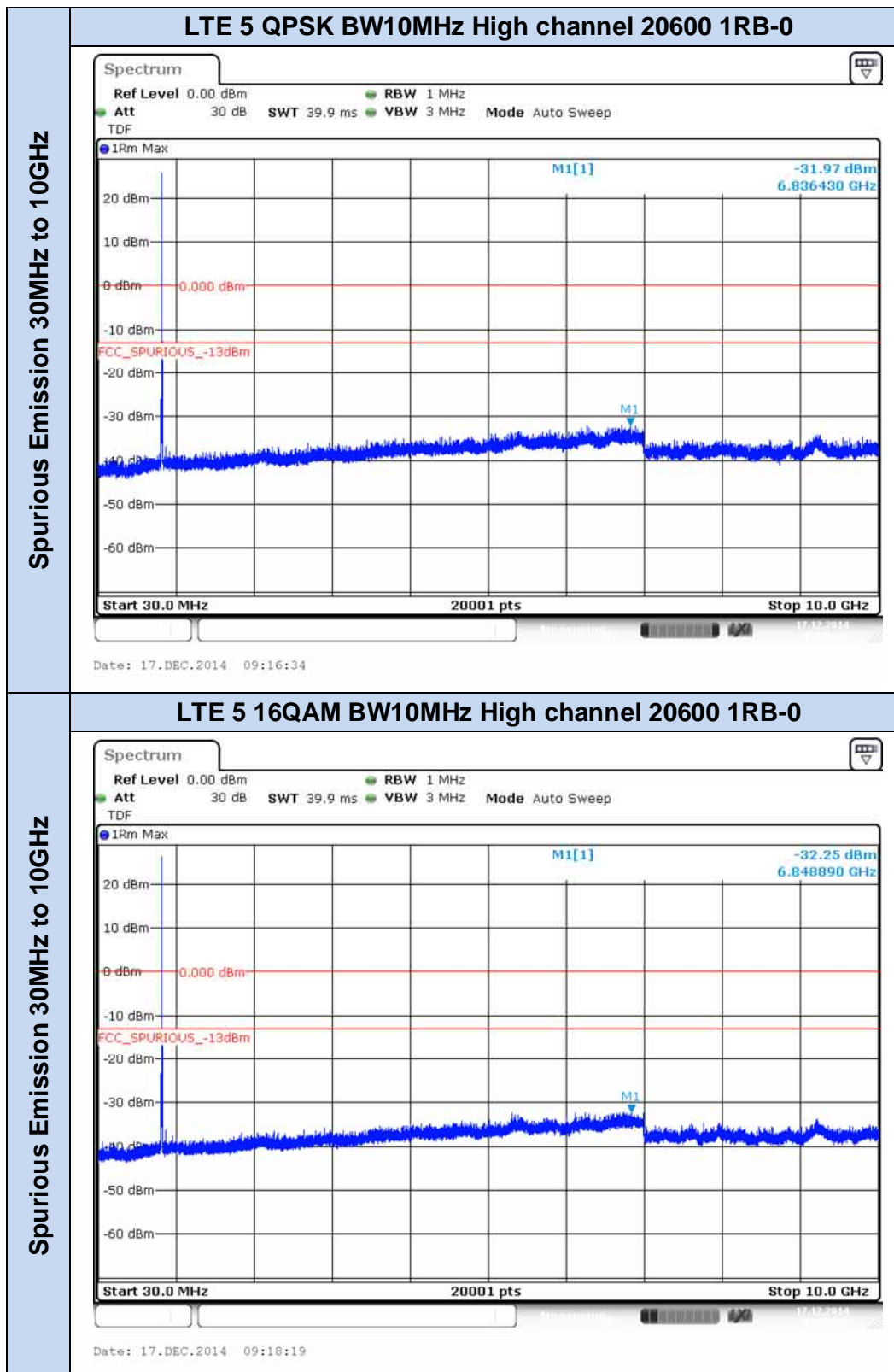




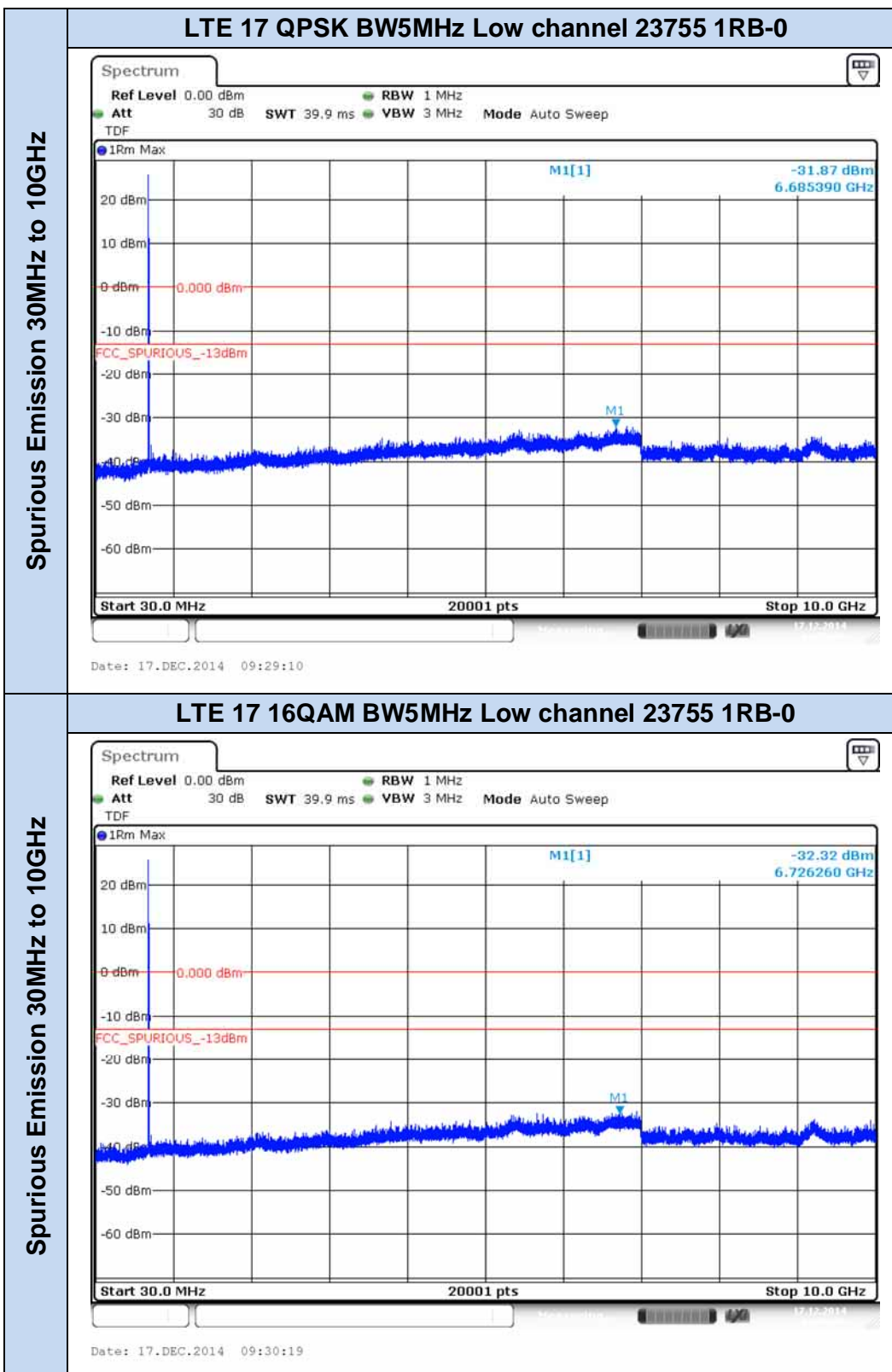






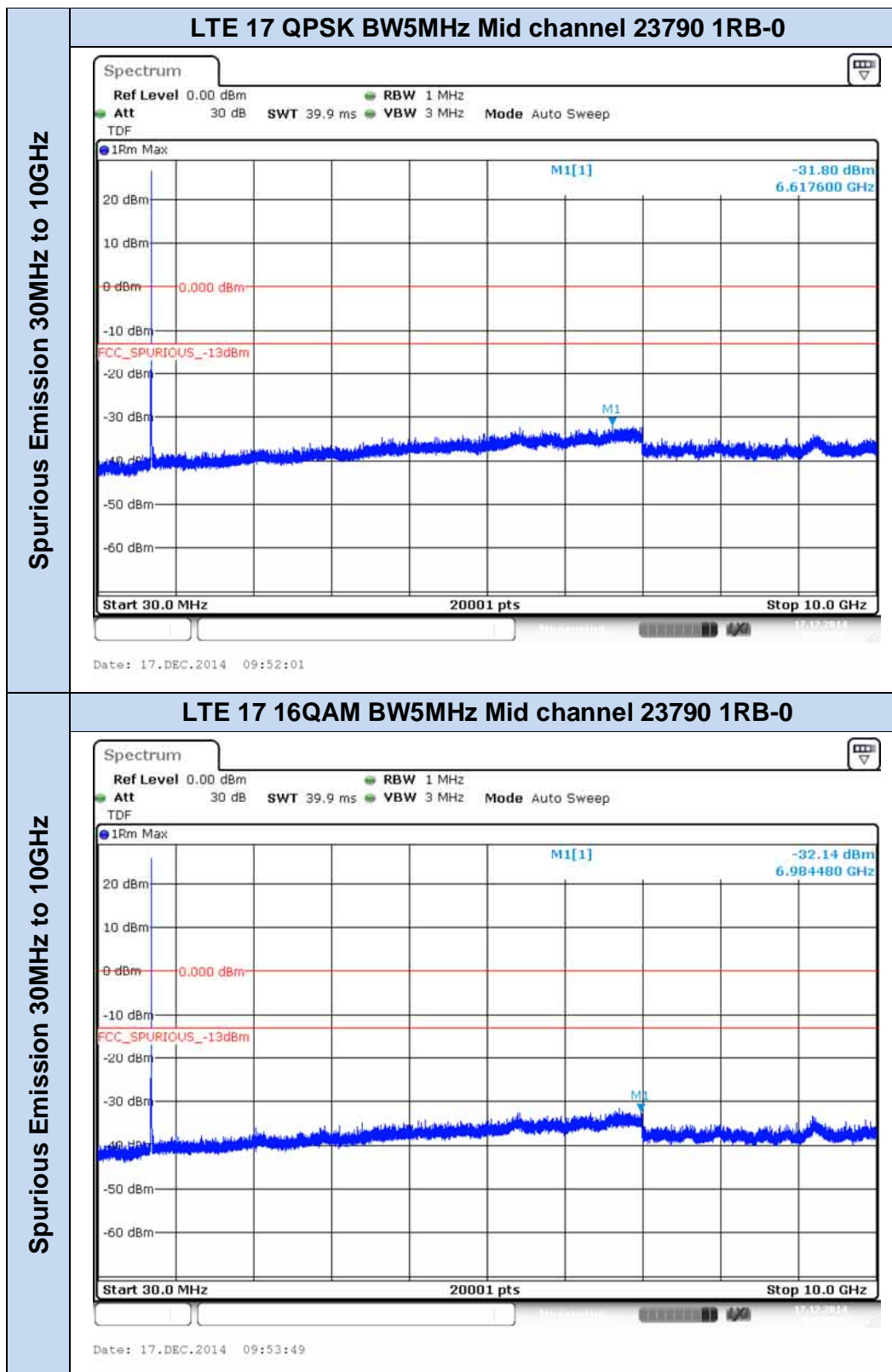


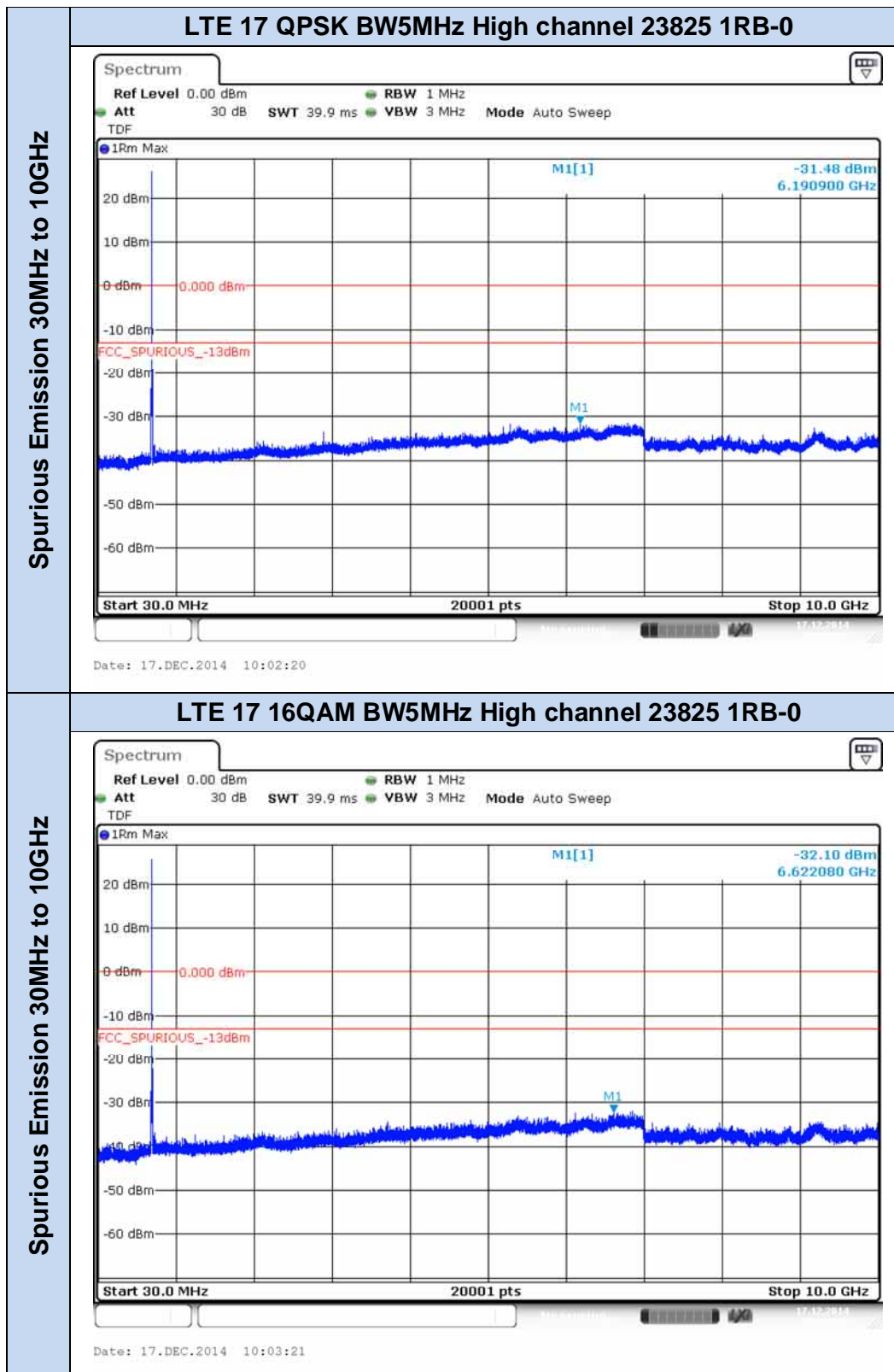
LTE Band 17

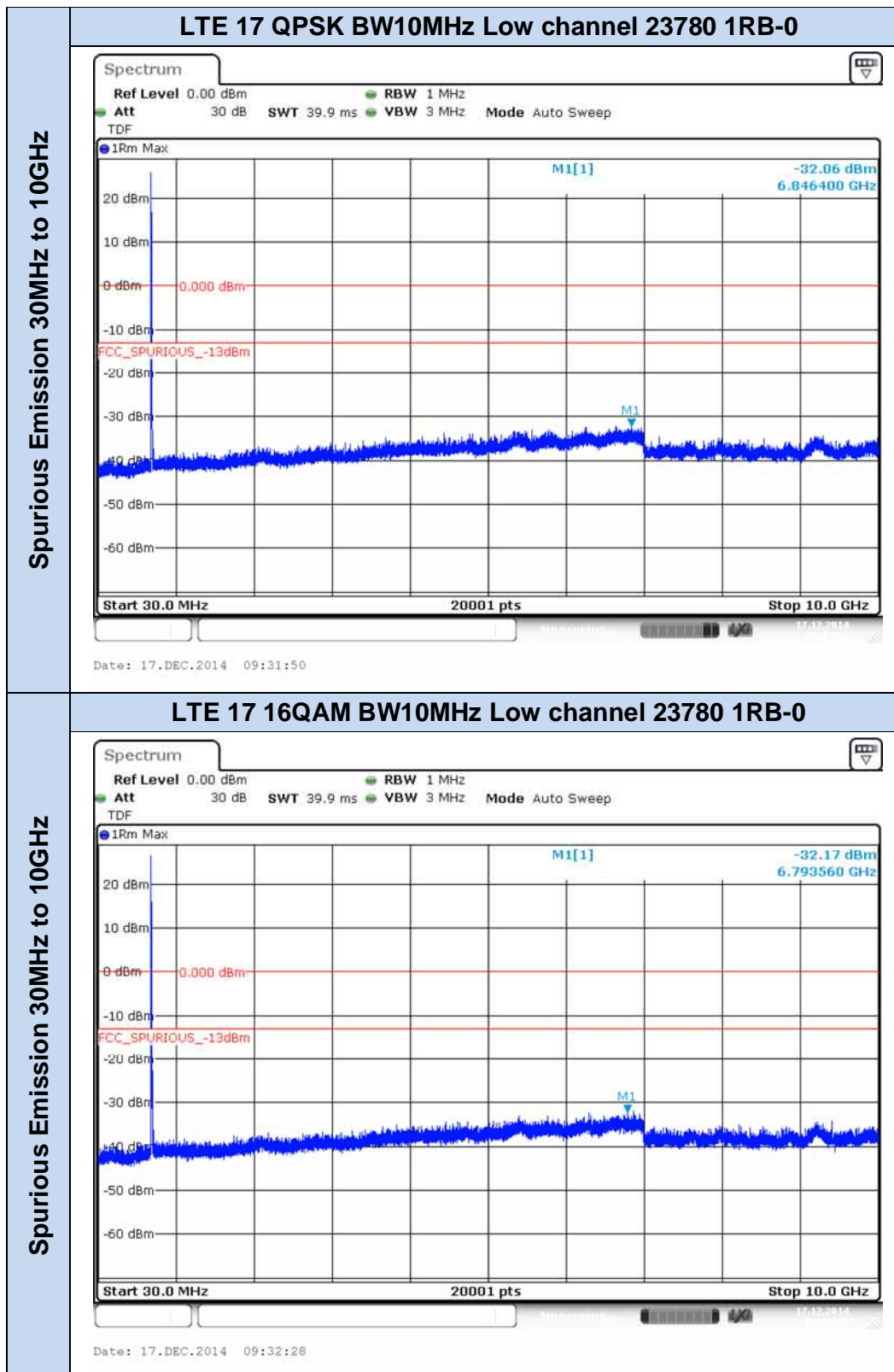


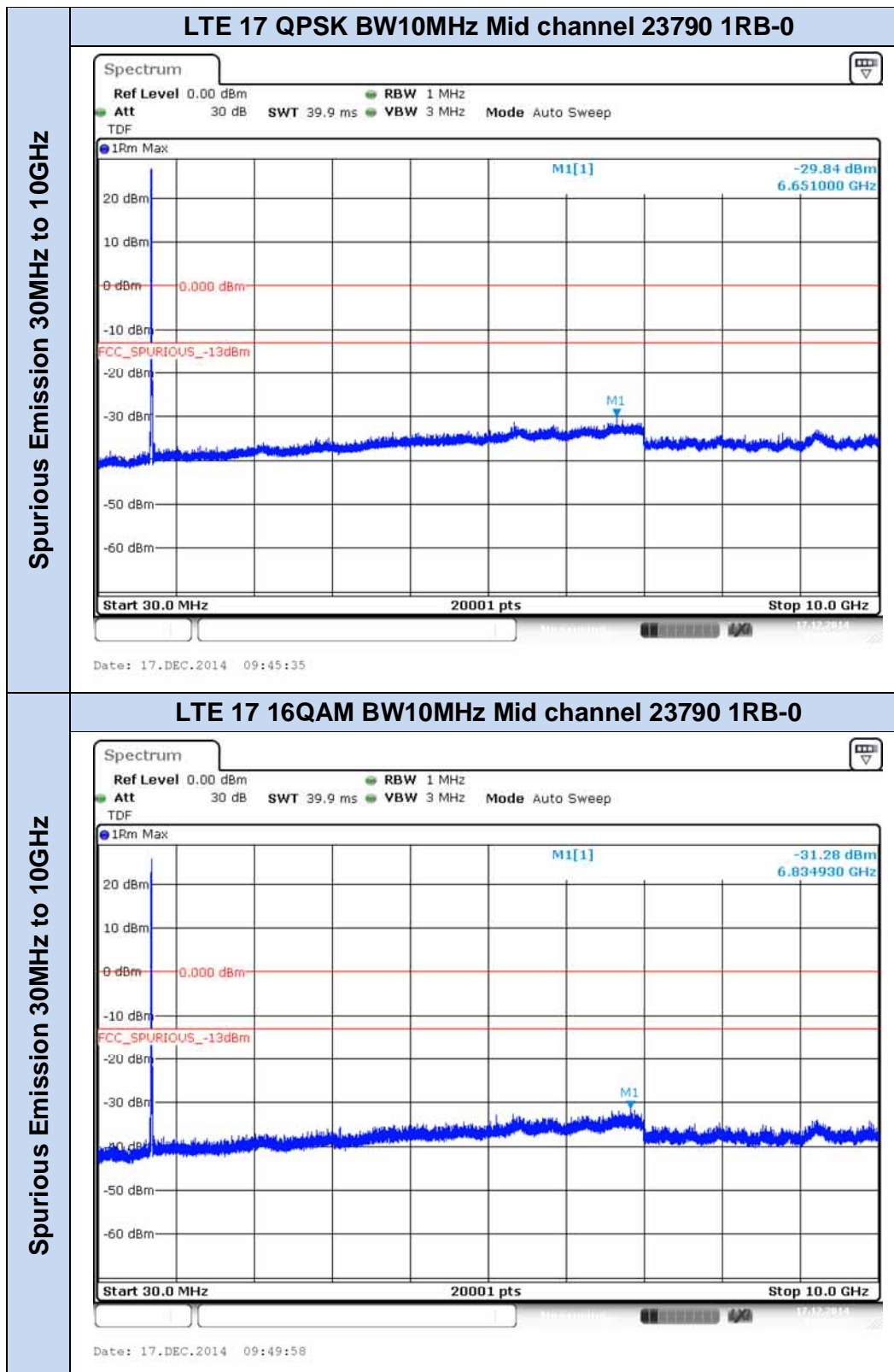
Spurious Emission 30MHz to 10GHz

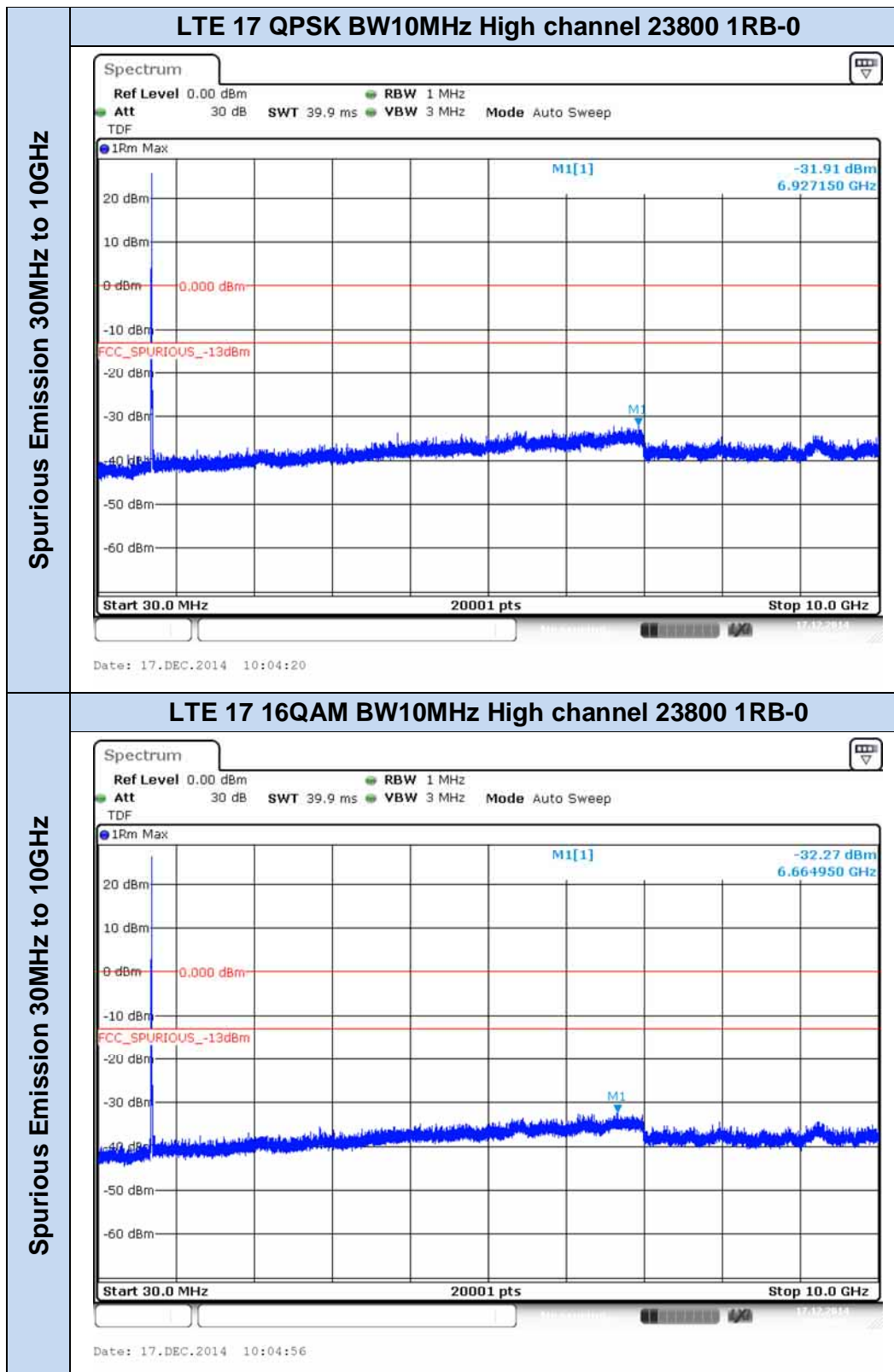
Spurious Emission 30MHz to 10GHz











B.2.5 Radiated spurious emission

Standard references

BAND	FCC part	RSS part	Limits
LTE 2	2. 1051, 24.238	133-ch6.5.1	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.
LTE 4	2. 1051, 27.53	139-ch.6.5	The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB.
LTE 5	2. 1051, 22.917	132-ch.5.5	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.
LTE 17	2. 1051, 22.53	130-ch.4.6	The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

Test procedure

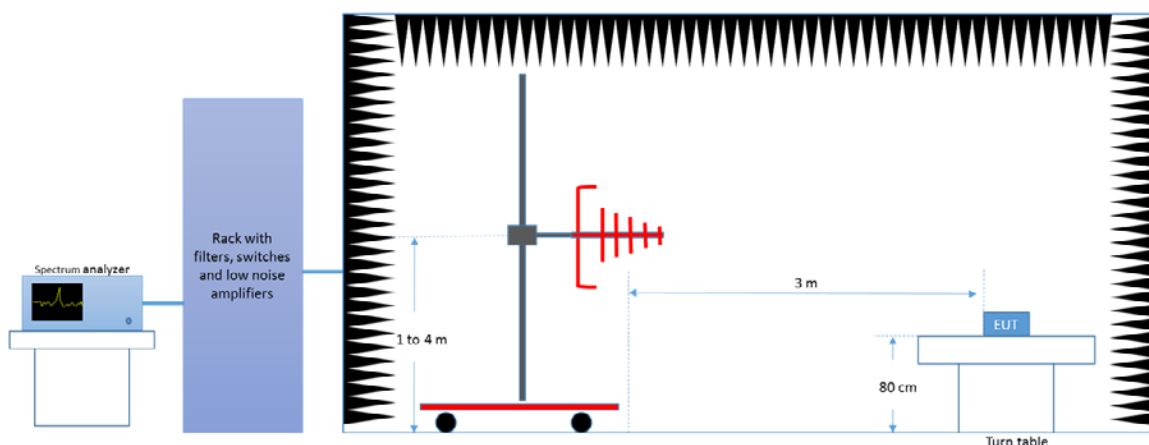
The setup below was used to measure the radiated spurious emissions. The test was done following the FCC OET KDB 971168 D01 v02r02 § 7.

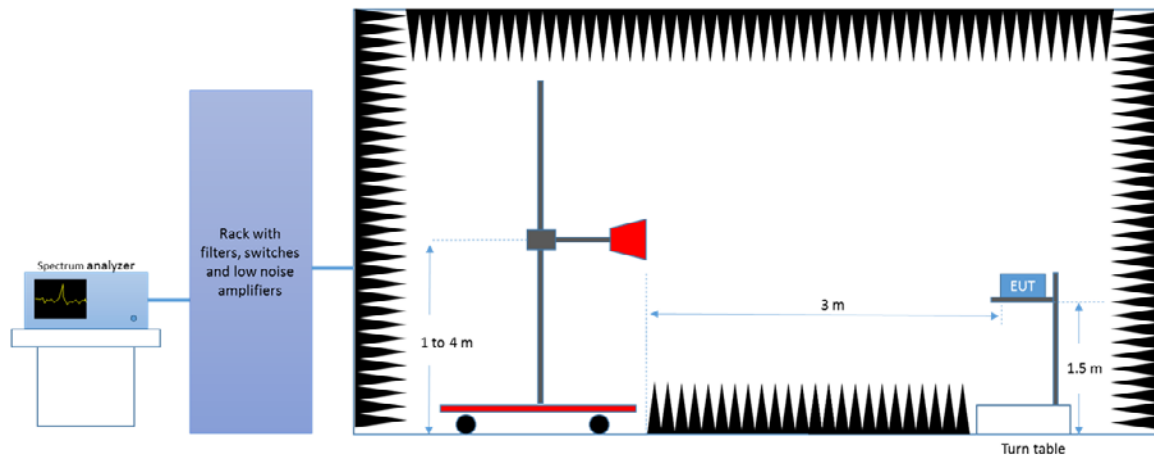
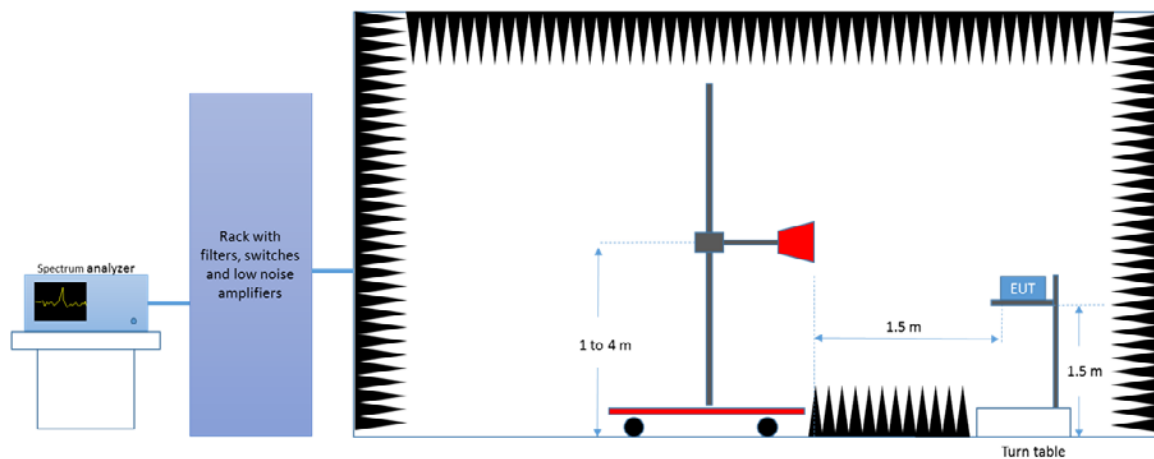
Depending of the frequency range and bands being tested, different antennas and filters were used.

The final measurement is done by varying the antenna height from 1 to 4 meters, the EUT azimuth over 360° and for both Vertical and Horizontal polarizations.

For GSM and WCDMA, the radiated spurious emission was measured on the worst case configuration selected from the chapter B.2.1 and on the low, middle and high channel.

Radiated Setup < 1GHz



Radiated Setup Frequency range 1 GHz to 18 GHz*Radiated Setup > 18GHz*

Test Results – Band 2
Radiated measurement from 30MHz to 1GHz

LTE Band 2 Low channel 18607

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Elevation	Corr.
MHz	dBm	dBm	cm		deg	deg	dB
624.615385	-53.01	---	100.0	H	150.0	0.0	-94.9
624.615385	---	-63.71	100.0	H	130.0	0.0	-94.9

LTE Band 2 Mid channel 18900

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
625.192308	---	-63.63	100.0	H	140.0	-94.8
627.115385	-54.06	---	300.0	H	135.0	-95.1

LTE Band 2 High channel 19193

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
625.192308	---	-63.63	100.0	H	200.0	-94.8
627.115385	-54.06	---	300.0	H	150.0	-95.1

Radiated measurement from 1GHz to 6.4 GHz

LTE Band 2 Low channel 18607

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
5727.955556	---	-43.60	1000.000	167.1	V	343.0	-92.6
5728.133334	-31.40	---	1000.000	163.2	V	180.0	-92.6

LTE Band 2 Mid channel 18900

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
5200.700000	---	-53.46	1000.000	168.2	V	208.0	-93.4
5203.111111	-42.02	---	1000.000	142.1	V	21.0	-93.3
5639.872222	-34.29	---	1000.000	143.2	V	176.0	-92.7
5639.994444	---	-47.01	1000.000	144.1	V	173.0	-92.7

LTE Band 2 High channel 19193

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
5727.855556	-32.15	---	1000.000	143.2	V	178.0	-92.6
5728.127778	---	-42.18	1000.000	163.2	V	180.0	-92.6

Radiated measurement from 6.4GHz to 18 GHz

LTE Band 2 Low channel 18607

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
7480.983333	---	-43.67	1000.000	187.2	V	106.0	-98.2
7481.245000	-37.39	---	1000.000	153.1	V	93.0	-98.2
9351.223333	---	-46.15	1000.000	172.1	V	81.0	-99.0
9351.326666	-32.86	---	1000.000	172.1	V	85.0	-99.0
11221.385000	-39.41	---	1000.000	132.1	V	277.0	-97.6
11221.690000	---	-53.27	1000.000	137.1	V	279.0	-97.6

LTE Band 2 Mid channel 18900

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
7518.138334	-37.47	---	1000.000	174.1	V	92.0	-98.2
7518.211667	---	-44.36	1000.000	173.1	V	99.0	-98.2
9397.883333	---	-44.30	1000.000	155.1	V	81.0	-99.0
9397.898333	-31.21	---	1000.000	156.1	V	82.0	-99.0
11277.308333	-36.23	---	1000.000	195.2	V	111.0	-97.5
11277.451666	---	-50.40	1000.000	196.1	V	110.0	-97.5

LTE Band 2 High channel 19193

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
7635.288333	-37.07	---	1000.000	171.1	V	84.0	-98.8
7635.421667	---	-41.98	1000.000	190.2	V	77.0	-98.8
9544.343333	-30.13	---	1000.000	174.1	V	73.0	-98.9
9544.395000	-30.34	---	1000.000	152.1	V	78.0	-98.9
11453.213334	-34.70	---	1000.000	211.1	V	66.0	-97.3
11453.305000	---	-47.43	1000.000	213.2	V	68.0	-97.3

Radiated measurement from 18 GHz to 26GHz

LTE Band 2 Low channel 18607

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
18066.346000	---	-61.47	1000.000	150.0	H	111.0	-91.0
18112.444000	-49.31	---	1000.000	150.0	H	91.0	-91.1

LTE Band 2 Mid channel 18900

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
26464.306000	-48.61	---	1000.000	150.0	H	1.0	-89.3
26491.984000	---	-60.27	1000.000	150.0	V	15.0	-89.2

LTE Band 2 High channel 19193

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
18074.432000	---	-61.40	1000.000	150.0	H	256.0	-91.0
18075.982000	-49.88	---	1000.000	150.0	V	343.0	-91.0
26470.306000	---	-60.71	1000.000	150.0	V	160.0	-89.2
26477.784000	-48.19	---	1000.000	150.0	H	144.0	-89.2

Test Results – Band 4
Radiated measurement from 30MHz to 1GHz

LTE Band 4 Low channel 19957

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
624.615385	-53.01	---	100.0	H	110.0	-94.9
624.615385	---	-63.71	100.0	H	125.0	-94.9

LTE Band 4 Mid channel 20175

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
625.000000	---	-63.81	100.0	H	150.0	-94.8
627.115385	-53.84	---	300.0	H	250.0	-95.1

LTE Band 4 High channel 20393

Frequency	MaxPeak	RMS	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	cm		deg	dB
625.000000	---	-63.50	100.0	H	270.0	-94.8
627.115385	-53.60	---	100.0	H	180.0	-95.1

Radiated measurement from 1GHz to 6.4 GHz

LTE Band 4 Low channel 19957

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Elevation	Corr.
MHz	dBm	dBm	kHz	cm		deg	deg	dB
3420.355556	-42.32	---	1000.000	293.2	V	279.0	0.0	-97.9
3420.594445	---	-48.49	1000.000	289.1	V	288.0	0.0	-97.9
5130.633333	-50.07	---	1000.000	142.1	V	315.0	0.0	-107.0
5130.783334	---	-59.20	1000.000	144.1	V	322.0	0.0	-107.0

LTE Band 4 Mid channel 20175

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
3464.144444	---	-49.69	1000.000	316.1	V	283.0	-98.0
3464.166666	-42.22	---	1000.000	312.1	V	290.0	-98.0
5196.122222	---	-47.25	1000.000	143.2	V	327.0	-93.4
5196.194445	-36.94	---	1000.000	144.1	V	327.0	-93.4

LTE Band 4 High channel 20393

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
3508.833333	---	-51.03	1000.000	264.1	V	110.0	-98.0
3508.938889	-43.07	---	1000.000	101.2	H	77.0	-98.2
5263.277777	---	-42.26	1000.000	206.2	V	212.0	-92.9
5263.500000	-37.16	---	1000.000	224.9	V	214.0	-92.9

Radiated measurement from 6.4GHz to 18 GHz

LTE Band 4 Low channel 19957

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
6840.850000	---	-39.15	1000.000	192.1	V	338.0	-99.9
6840.851667	-30.72	---	1000.000	228.1	V	108.0	-99.9
8551.238333	-27.30	---	1000.000	173.2	V	79.0	-99.5
8551.555000	---	-44.72	1000.000	171.1	V	77.0	-99.5
10261.586667	-37.57	---	1000.000	175.2	V	65.0	-99.1
10261.750000	---	-53.22	1000.000	153.1	V	65.0	-99.1

LTE Band 4 Mid channel 20175

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
6928.225000	-33.15	---	1000.000	152.2	V	100.0	-99.8
6928.398333	---	-40.74	1000.000	155.1	V	103.0	-99.8
8659.998334	-33.22	---	1000.000	154.2	V	78.0	-99.4
8660.270000	---	-47.65	1000.000	155.0	V	80.0	-99.4
10392.286666	---	-52.15	1000.000	136.1	V	62.0	-98.9
10392.325000	-39.81	---	1000.000	136.2	V	67.0	-98.9
12124.266667	---	-51.17	1000.000	195.1	V	67.0	-96.8
12124.375000	-37.15	---	1000.000	187.8	V	63.0	-96.8

LTE Band 4 High channel 20393

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
7015.345000	-31.71	---	1000.000	173.2	V	105.0	-99.7
7015.430000	---	-40.14	1000.000	172.1	V	104.0	-99.7
8769.208333	-32.61	---	1000.000	173.0	V	78.0	-99.4
8769.300000	-32.95	---	1000.000	172.1	V	76.0	-99.4
10522.906666	---	-55.17	1000.000	154.1	V	64.0	-98.7
10523.018333	-41.48	---	1000.000	136.1	V	60.0	-98.7

Test Results – Band 5
Radiated measurement from 30MHz to 1GHz

LTE Band 5 Low channel 20407

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
624.694200	---	-47.77	100.000	112.2	H	204.0	-64.5
627.120200	-37.98	---	100.000	146.2	H	234.0	-64.8

LTE Band 5 Mid channel 20525

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
624.341600	---	-47.89	100.000	397.2	H	11.0	-64.6
624.455000	-37.86	---	100.000	173.1	H	358.0	-64.6

LTE Band 5 High channel 20643

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
627.862600	-37.97	---	100.000	243.1	H	40.0	-64.9
628.023200	---	-48.07	100.000	399.8	H	49.0	-64.9

Radiated measurement from 1GHz to 6.4 GHz

LTE Band 5 Low channel 20407

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
1648.482143	-49.77	---	1000.000	196.1	V	41.0	-105.5
1648.560714	---	-58.36	1000.000	152.1	V	41.0	-105.5
1763.317857	---	-66.33	1000.000	190.1	H	74.0	-106.0
1774.653571	-54.57	---	1000.000	190.1	H	261.0	-105.9
5199.675000	-39.68	---	1000.000	132.1	V	243.0	-90.3
5202.617857	---	-49.82	1000.000	366.1	V	272.0	-90.3

LTE Band 5 Mid channel 20525

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
1762.607143	-55.01	---	1000.000	289.2	H	1.0	-106.0
1769.560714	---	-66.17	1000.000	267.1	H	18.0	-106.0
2459.300000	---	-62.16	1000.000	155.1	H	88.0	-102.9
2462.153571	-47.63	---	1000.000	290.1	V	1.0	-98.9
5182.960715	-39.63	---	1000.000	188.1	V	10.0	-90.4
5197.342857	---	-48.47	1000.000	304.1	V	142.0	-90.3

LTE Band 5 High channel 20643

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
1695.739286	---	-60.33	1000.000	137.1	V	47.0	-105.0
1696.078571	-51.73	---	1000.000	156.1	V	78.0	-105.0
1772.500000	---	-64.43	1000.000	101.2	V	309.0	-104.2
1773.485714	-53.25	---	1000.000	135.2	V	37.0	-104.2
1980.310714	-53.33	---	1000.000	306.1	H	307.0	-104.1
1980.807143	---	-64.43	1000.000	311.1	H	264.0	-104.1

Radiated measurement from 6.4GHz to 18 GHz

LTE Band 5 Low channel 20407

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
12119.283333	-47.90	---	1000.000	231.1	V	1.0	-96.8
12169.665000	---	-59.20	1000.000	271.2	V	91.0	-96.8
17978.720000	-41.56	---	1000.000	113.2	V	14.0	-84.8
17998.334844	---	-52.74	1000.000	154.1	V	223.0	-84.3

LTE Band 5 Mid channel 20525

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
17997.696144	-42.41	---	1000.000	100.1	H	268.0	-85.1
17998.067911	---	-52.43	1000.000	115.2	V	120.0	-84.3

LTE Band 5 High channel 20643

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
17989.589472	---	-52.75	1000.000	101.1	V	203.0	-84.5
17995.818267	-41.89	---	1000.000	229.1	V	229.0	-84.4

Tests Results – LTE Band 17
Radiated measurement from 30MHz to 1GHz

LTE Band 17 Low channel 23775

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
895.904400	---	-44.38	100.000	323.1	H	280.0	-62.5
898.512200	-32.68	---	100.000	241.1	H	107.0	-61.8

LTE Band 17 Mid channel 23790

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
898.951800	---	-43.63	100.000	160.1	H	292.0	-61.7
899.449200	-33.62	---	100.000	241.1	H	50.0	-61.6

LTE Band 17 High channel 23825

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
899.804400	---	-43.74	100.000	101.2	H	67.0	-61.5
901.822000	-33.23	---	100.000	160.1	H	316.0	-61.8

Radiated measurement from 1GHz to 6.4 GHz

LTE Band 17 Low channel 23775

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
1422.725000	---	-50.41	1000.000	156.1	V	285.0	-107.2
1422.767857	-45.39	---	1000.000	175.2	V	34.0	-107.2
2132.125000	-48.44	---	1000.000	386.1	V	279.0	-100.6
2143.960714	---	-60.77	1000.000	382.2	V	172.0	-100.4
5203.003572	-37.10	---	1000.000	189.1	V	226.0	-90.3
5203.246428	---	-51.32	1000.000	387.1	V	304.0	-90.3
5684.150000	-39.64	---	1000.000	274.8	V	30.0	-90.0
5708.075000	---	-46.29	1000.000	270.2	V	213.0	-90.0

LTE Band 17 Mid channel 23790

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
1417.607143	-46.31	---	1000.000	173.1	V	280.0	-107.2
1417.646428	---	-52.65	1000.000	155.1	V	281.0	-107.2
1951.339286	---	-64.63	1000.000	399.9	H	4.0	-104.3
1958.203572	-53.35	---	1000.000	399.8	H	231.0	-104.3
5196.500000	---	-50.53	1000.000	348.2	V	88.0	-90.3
5202.521428	-39.31	---	1000.000	247.1	V	94.0	-90.3
5687.860715	-38.53	---	1000.000	212.1	V	215.0	-90.0
5688.128572	---	-48.64	1000.000	287.2	V	228.0	-90.0

LTE Band 17 High channel 23825

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
1427.385714	---	-52.80	1000.000	153.2	V	282.0	-107.2
1427.514285	-47.88	---	1000.000	131.2	V	291.0	-107.2
1960.625000	---	-62.70	1000.000	271.1	V	24.0	-102.5
1962.375000	-51.54	---	1000.000	366.1	V	246.0	-102.5
2137.035714	-48.59	---	1000.000	131.1	V	128.0	-100.5
2144.900000	---	-60.76	1000.000	188.1	V	324.0	-100.4
5197.675000	---	-49.43	1000.000	268.1	V	207.0	-90.3
5199.114286	-39.33	---	1000.000	213.2	V	48.0	-90.3

Radiated measurement from 6.4GHz to 18 GHz

LTE Band 17 Low channel 23775

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
14394.311667	-47.86	---	1000.000	270.2	V	197.0	-96.3
14405.833333	---	-59.63	1000.000	400.0	V	158.0	-96.3

LTE Band 17 Mid channel 23790

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
17998.646531	-40.83	---	1000.000	231.1	V	23.0	-84.3
17998.740039	---	-52.32	1000.000	100.1	V	154.0	-84.3

LTE Band 17 High channel 23825

Frequency	MaxPeak	RMS	Bandwidth	Height	Pol	Azimuth	Corr.
MHz	dBm	dBm	kHz	cm		deg	dB
17976.686667	-40.88	---	1000.000	213.1	V	55.0	-84.8
17979.630000	---	-52.62	1000.000	100.1	V	224.0	-84.8

Annex C. Subcontracted Test Results

The results in this annex are issued from the subcontractor test report reference 45006RRF.002

C.1 Frequency stability over temperature variations.

FDD Band 2, channel frequency 1880MHz

MODULATION QPSK (20MHz 100RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-12.32	-0.00655	-0.000006553191
+40	-12.40	-0.00660	-0.000006595745
+30	-13.82	-0.00735	-0.000007351064
+20	-12.95	-0.00689	-0.000006888298
+10	-15.09	-0.00803	-0.000008026596
0	-12.75	-0.00678	-0.000006781915
-10	-13.70	-0.00729	-0.000007287234
-20	-11.47	-0.00610	-0.000006101064
-30	-13.36	-0.00711	-0.000007106383

MODULATION 16QAM (20MHz 100RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-14.95	-0.00795	-0.000007952128
+40	12.25	0.00652	0.000006515957
+30	-14.33	-0.00762	-0.000007622340
+20	-13.46	-0.00716	-0.000007159574
+10	-11.50	-0.00612	-0.000006117021
0	-13.30	-0.00707	-0.000007074468
-10	-13.60	-0.00723	-0.000007234043
-20	-13.68	-0.00728	-0.000007276596
-30	-13.70	-0.00729	-0.000007287234

FDD Band 4, channel frequency 1732.5MHz

MODULATION QPSK (20MHz 100RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-14.00	-0.00808	-0.000008080808
+40	-16.94	-0.00978	-0.000009777778
+30	-15.49	-0.00894	-0.000008940837
+20	-15.13	-0.00873	-0.000008733045
+10	-14.28	-0.00824	-0.000008242424
0	-13.75	-0.00794	-0.000007936508
-10	-14.99	-0.00865	-0.000008652237
-20	-12.55	-0.00724	-0.000007243867
-30	-13.78	-0.00795	-0.000007953824

MODULATION 16QAM (20MHz 100RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	-17.38	-0.01003	-0.0000010031746
+40	-17.85	-0.01030	-0.0000010303030
+30	-15.74	-0.00909	-0.0000009085137
+20	-15.08	-0.00870	-0.0000008704185
+10	-14.83	-0.00856	-0.0000008559885
0	-15.06	-0.00869	-0.0000008692641
-10	-15.19	-0.00877	-0.0000008767677
-20	-14.28	-0.00824	-0.0000008242424
-30	-16.16	-0.00933	-0.0000009327561

FDD Band 5, channel frequency 836.5MHz
MODULATION QPSK (10MHz 50RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	6.44	0.00770	0.0000007698745
+40	-5.19	-0.00620	-0.0000006204423
+30	-6.29	-0.00752	-0.0000007519426
+20	6.08	0.00727	0.0000007268380
+10	-6.65	-0.00795	-0.0000007949791
0	6.90	0.00825	0.0000008248655
-10	6.79	0.00812	0.0000008117155
-20	6.48	0.00775	0.0000007746563
-30	5.71	0.00683	0.0000006826061

MODULATION 16QAM (10MHz 50RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	6.82	0.00815	0.0000008153019
+40	6.71	0.00802	0.0000008021518
+30	6.57	0.00785	0.0000007854154
+20	7.12	0.00851	0.0000008511656
+10	6.32	0.00756	0.0000007555290
0	6.54	0.00782	0.0000007818290
-10	-6.48	-0.00775	-0.0000007746563
-20	-5.75	-0.00687	-0.0000006873879
-30	6.84	0.00818	0.0000008176928

FDD Band 17, channel frequency 710MHz

MODULATION QPSK (10MHz 50RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	5.62	0.00792	0.0000007915493
+40	5.49	0.00773	0.0000007732394
+30	5.05	0.00711	0.0000007112676
+20	5.08	0.00715	0.0000007154930
+10	5.65	0.00796	0.0000007957746
0	5.28	0.00744	0.0000007436620
-10	5.26	0.00741	0.0000007408451
-20	5.29	0.00745	0.0000007450704
-30	7.98	0.01124	0.0000011239437

MODULATION 16QAM (10MHz 50RB)

Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
+50	6.61	0.00931	0.0000009309859
+40	4.76	0.00670	0.0000006704225
+30	6.75	0.00951	0.0000009507042
+20	5.98	0.00842	0.0000008422535
+10	5.25	0.00739	0.0000007394366
0	4.88	0.00687	0.0000006873239
-10	5.69	0.00801	0.0000008014085
-20	6.24	0.00879	0.0000008788732
-30	4.92	0.00693	0.0000006929577

C.2 Frequency stability over voltage variations.

FDD Band 2, Frequency channel 1880MHz

QPSK MODULATION

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-13.53	-0.00720	-0.0000007196809
Vmin	2.8	-12.59	-0.00670	-0.0000006696809

16QAM MODULATION

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-17.02	-0.00905	-0.0000009053191
Vmin	2.8	-13.23	-0.00704	-0.0000007037234

FDD Band 4, Frequency channel 1732.5MHz

QPSK MODULATION

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-13.88	-0.00801	-0.0000008011544
Vmin	2.8	-12.22	-0.00705	-0.0000007053391

16QAM MODULATION

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-16.05	-0.00926	-0.0000009264069
Vmin	2.8	-15.56	-0.00898	-0.0000008981241

FDD Band 5, Frequency channel 836.5MHz

MODULATION QPSK (10MHz 50RB)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-6.14	-0.00734	-0.0000007340108
Vmin	2.8	6.61	0.00790	0.0000007901973

MODULATION 16QAM (10MHz 50RB)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	-6.55	-0.00783	-0.0000007830245
Vmin	2.8	6.17	0.00738	0.0000007375971

FDD Band 17, Frequency channel 710MHz

MODULATION QPSK (10MHz 50RB)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	5.78	0.00814	0.0000008140845
Vmin	2.8	6.65	0.00937	0.00000093661967



MODULATION QPSK (10MHz 50RB)

Battery Supply voltage	Voltage (V)	Frequency Error (Hz)	Frequency Error (ppm)	Frequency Error (%)
Vmax	3.8	6.15	0.00866	0.0000008661972
Vmin	2.8	5.54	0.00780	0.0000007802817