



2.6 CONDUCTED SPURIOUS EMISSIONS

2.6.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1051
FCC 47 CFR Part 96, Clause 96.41(e)(1)(2)(3)

2.6.2 Standard Applicable

FCC 47 CFR Part 96.41:

(e) 3.5 GHz Emissions and Interference Limits - (1) General protection levels. Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(2) Additional protection levels: Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

2.6.3 Equipment Under Test and Modification State

Serial No: FJ220819C00056 / Test Configuration A

2.6.4 Date of Test/Initial of test personnel who performed the test

October 28, 2019 / AC

2.6.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.6.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature	24.8 °C
Relative Humidity	43.2 %
ATM Pressure	98.8 kPa

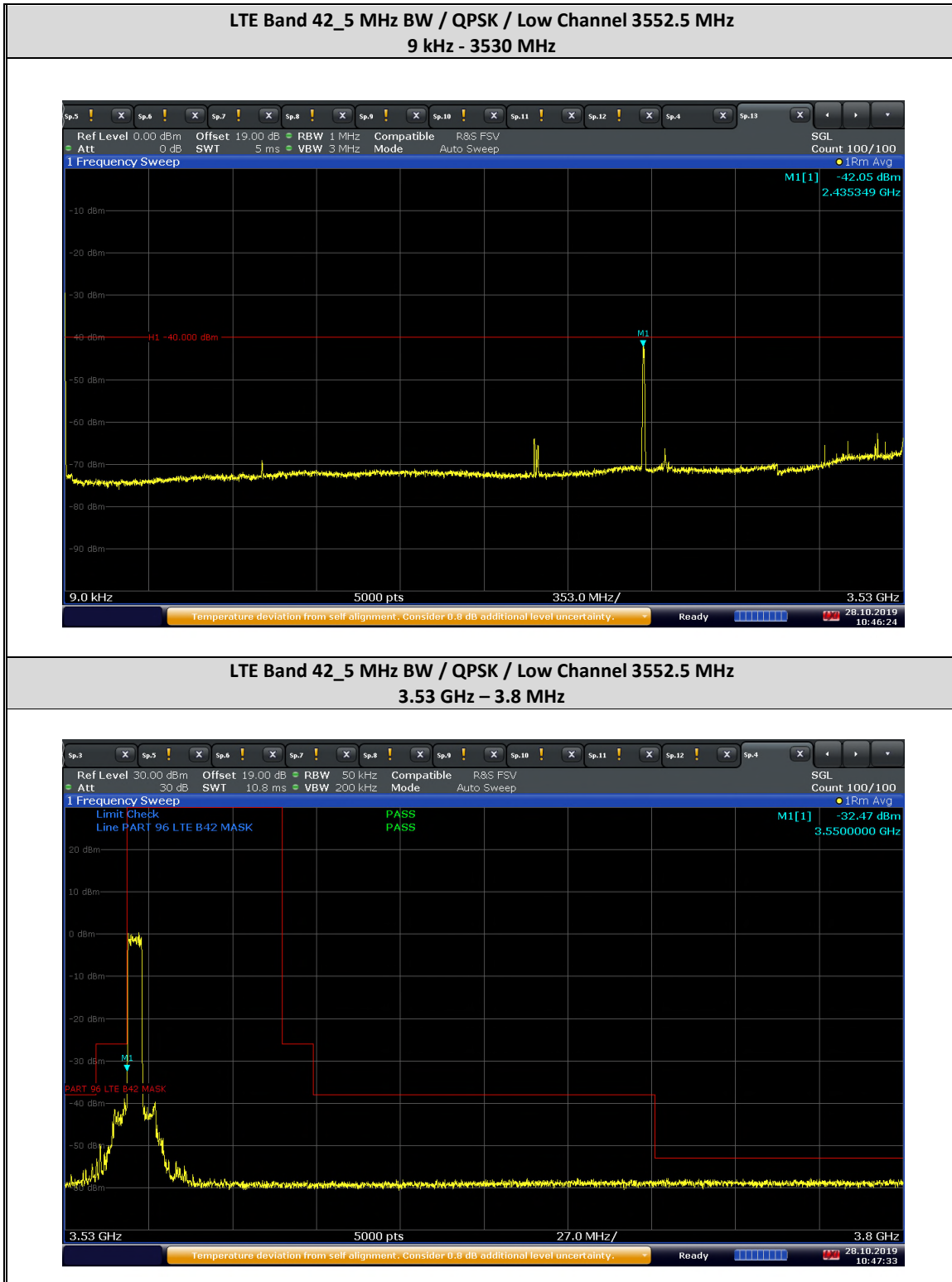


2.6.7 Additional Observations

- This is a conducted test.
- The spectrum was searched from 30MHz to the 10th harmonic.
- Only noise floor measurements observed above 26.5 GHz.
- Low, Middle and High channels on all channel bandwidth and modulation are verified. Only the worst case channel of each band presented.



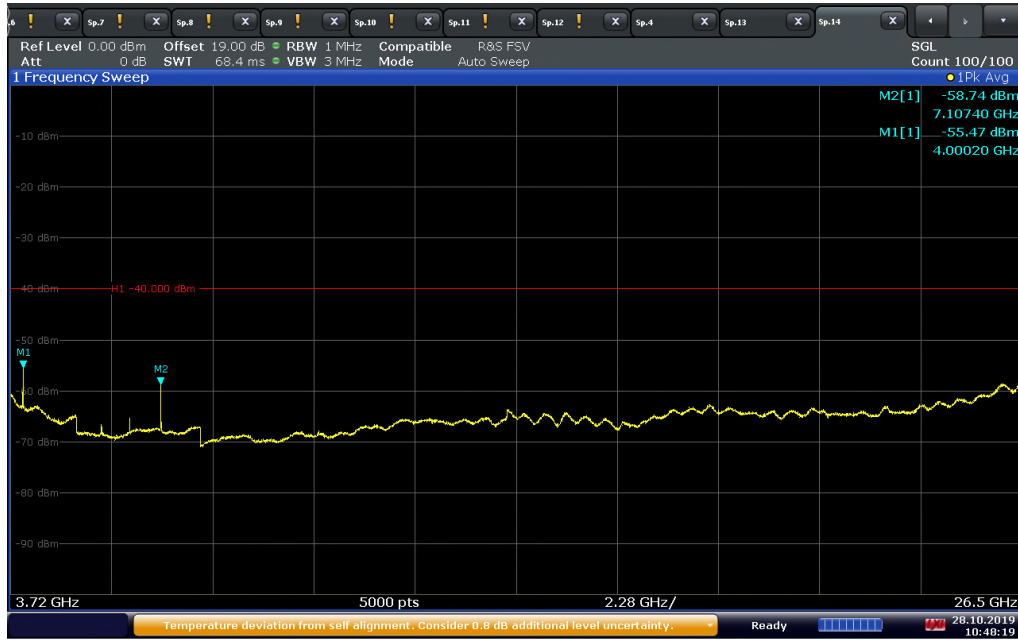
2.6.8 Test Results



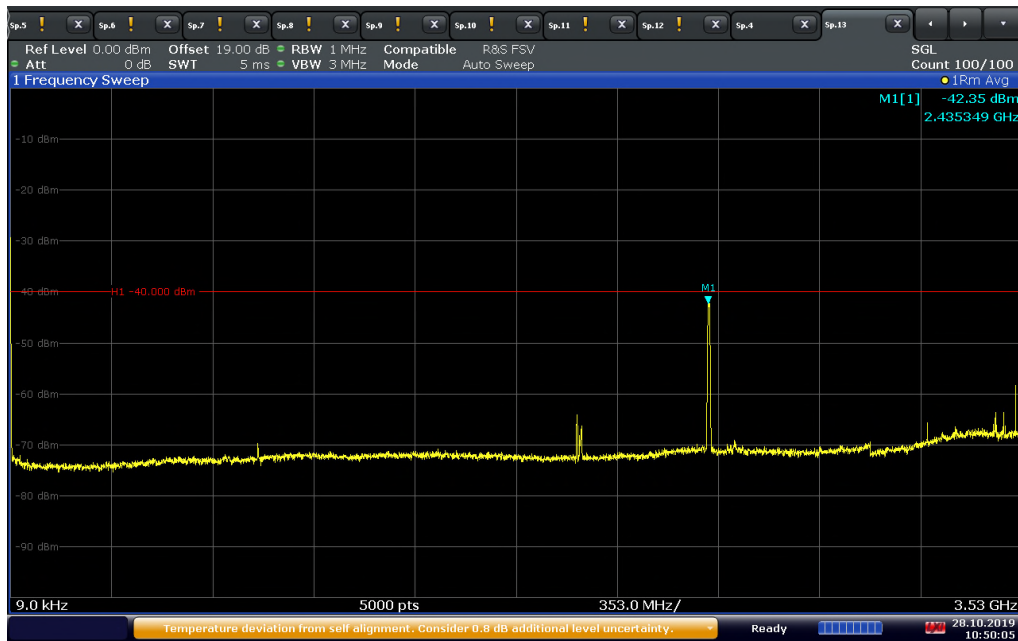


America

LTE Band 42_5 MHz BW / QPSK / Low Channel 3552.5 MHz
3.72 GHz – 26.5 MHz



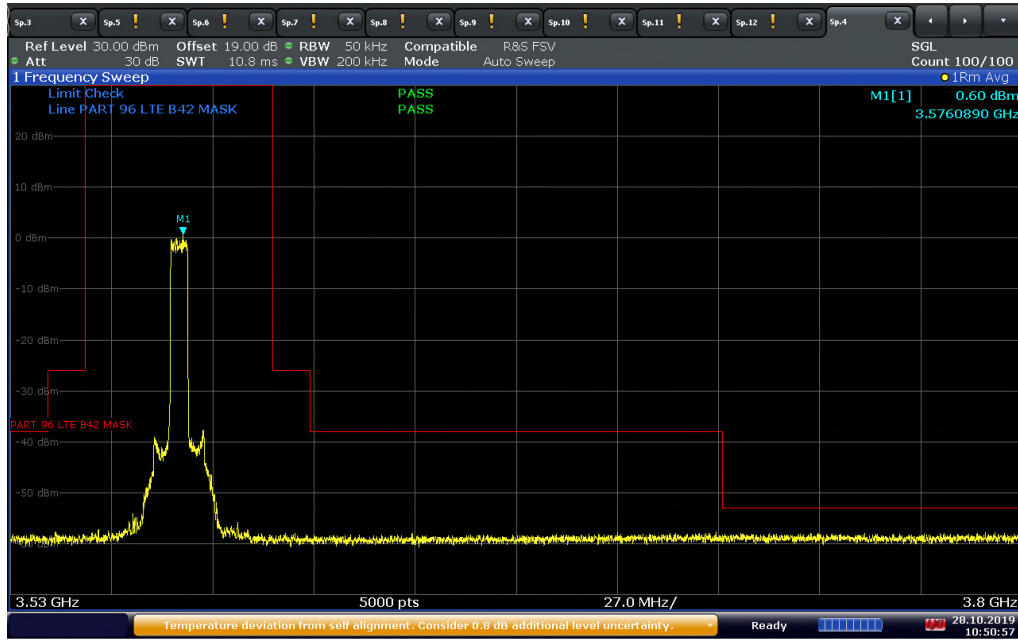
LTE Band 42_5 MHz BW / QPSK / Mid Channel 3575 MHz
9 kHz - 3530 MHz



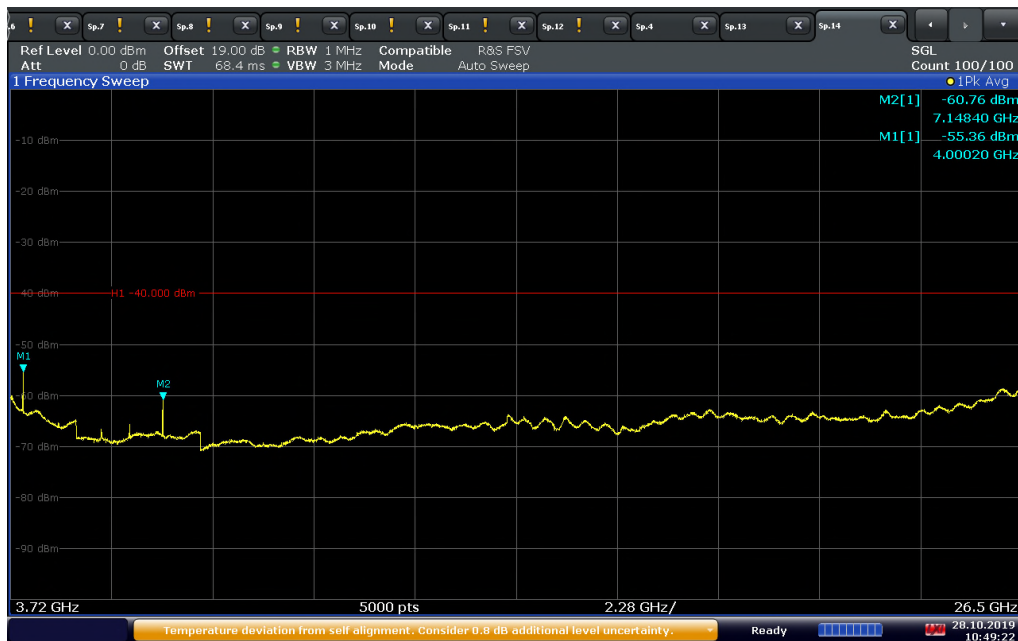


America

LTE Band 42_5 MHz BW / QPSK / Mid Channel 3575 MHz
3.53 GHz – 3.8 MHz



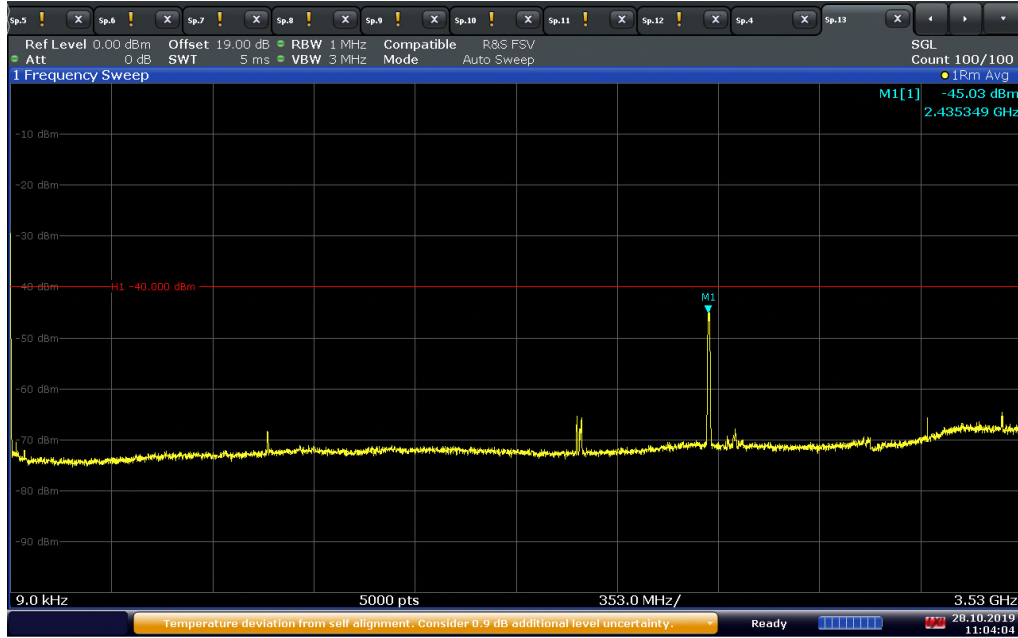
LTE Band 42_5 MHz BW / QPSK / Mid Channel 3575 MHz
3.72 GHz – 26.5 MHz



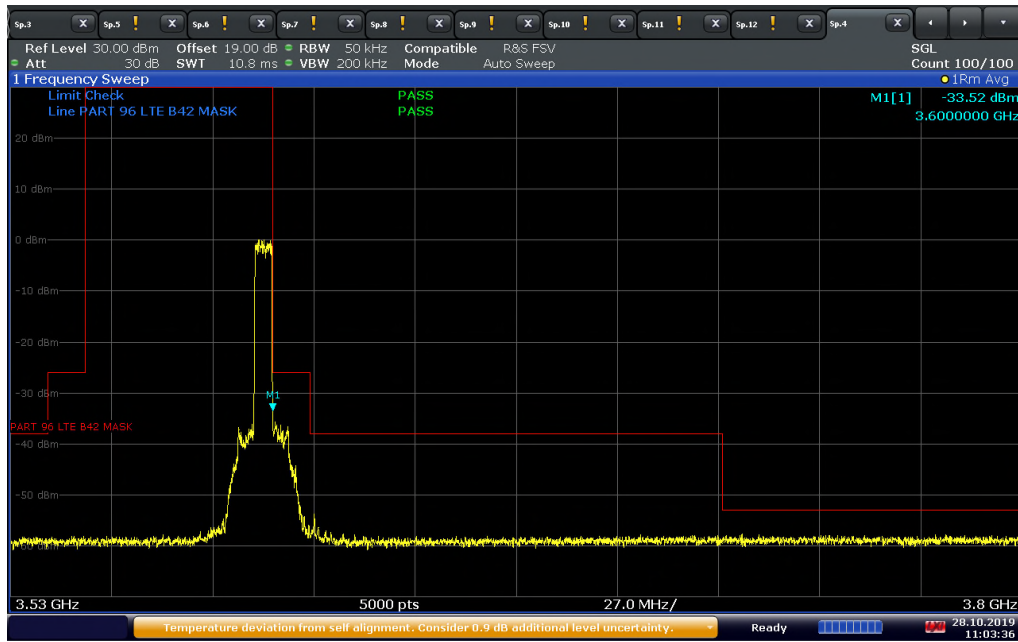


America

LTE Band 42_5 MHz BW / QPSK / High Channel 3597.5 MHz
9 kHz - 3530 MHz



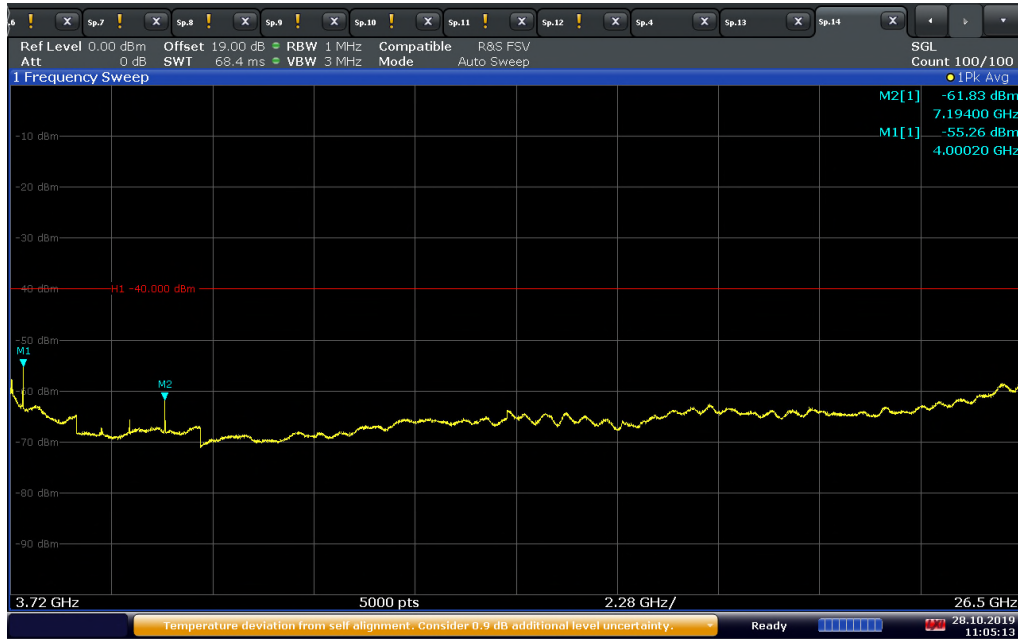
LTE Band 42_5 MHz BW / QPSK / High Channel 3597.5 MHz
3.53 GHz - 3.8 MHz





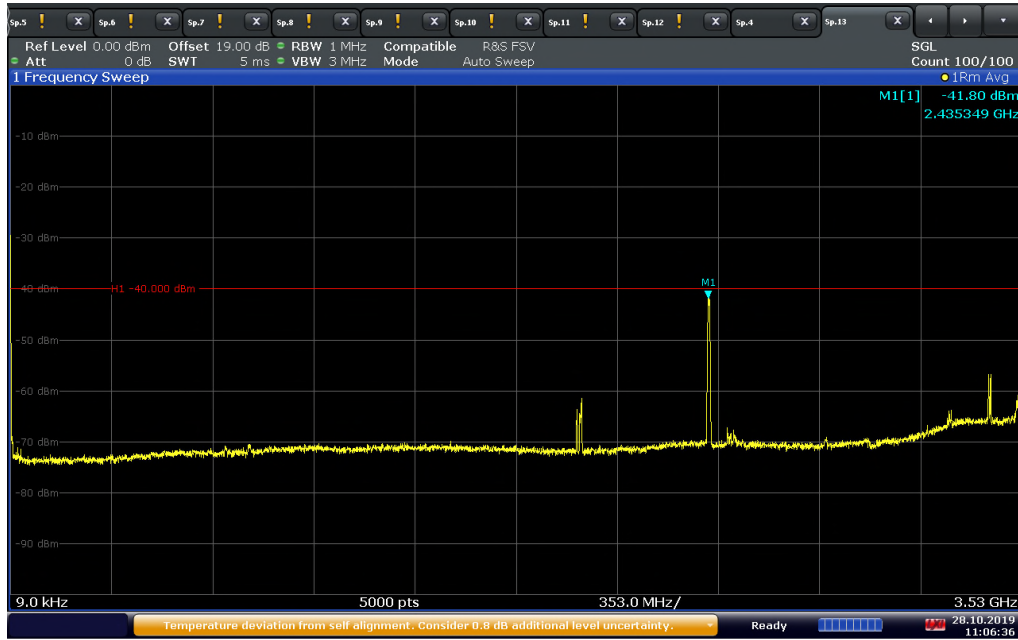
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LTE Band 42_5 MHz BW / QPSK / High Channel 3597.5 MHz
3.72 GHz – 26.5 MHz

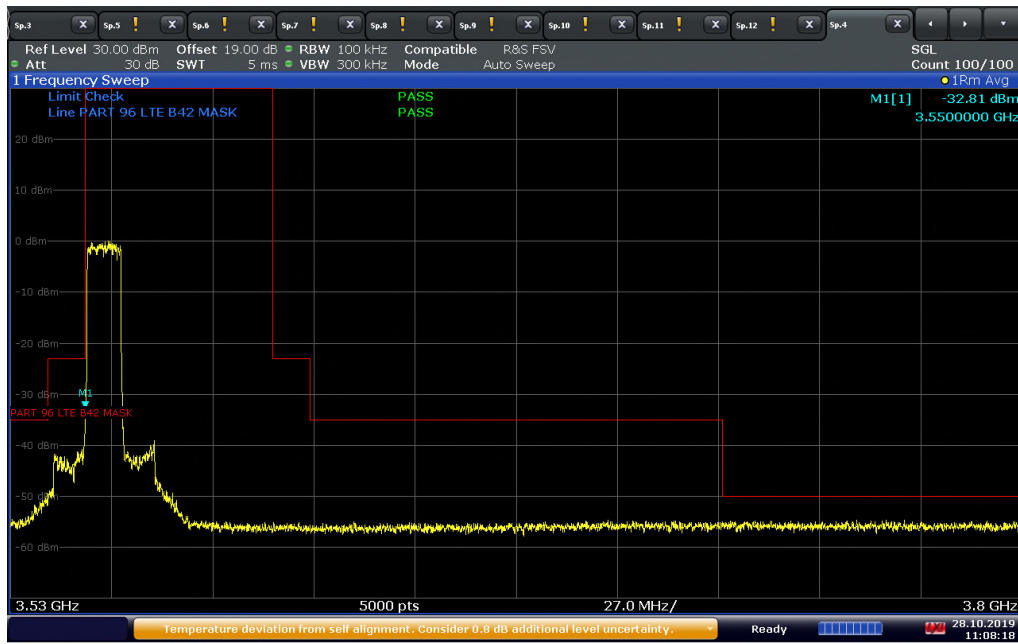




LTE Band 42_10 MHz BW / QPSK / Low Channel 3555 MHz
9 kHz - 3530 MHz



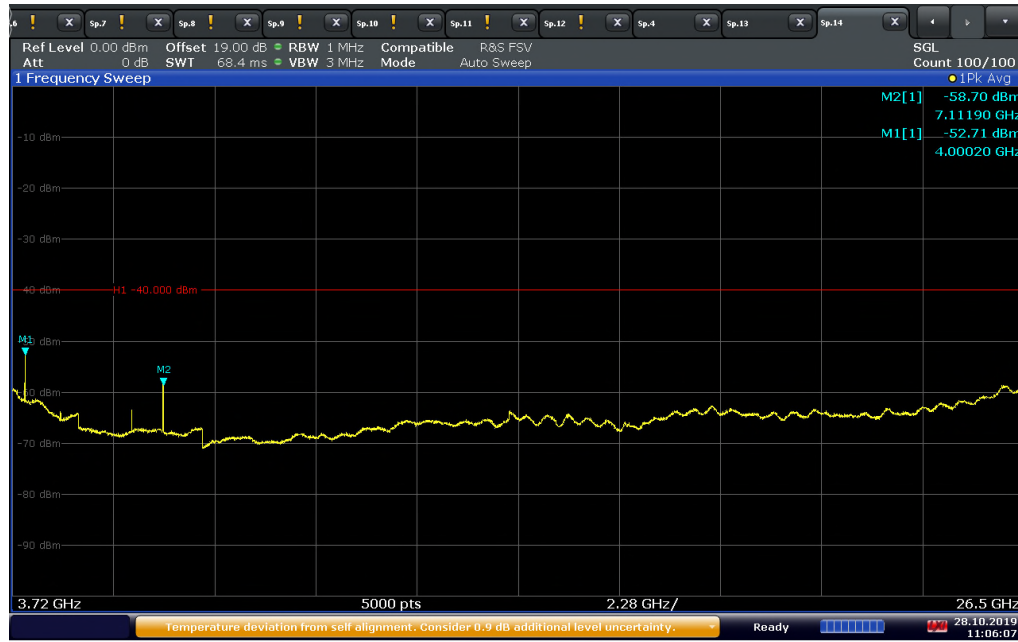
LTE Band 42_10 MHz BW / QPSK / Low Channel 3555 MHz
3.53 GHz - 3.8 MHz



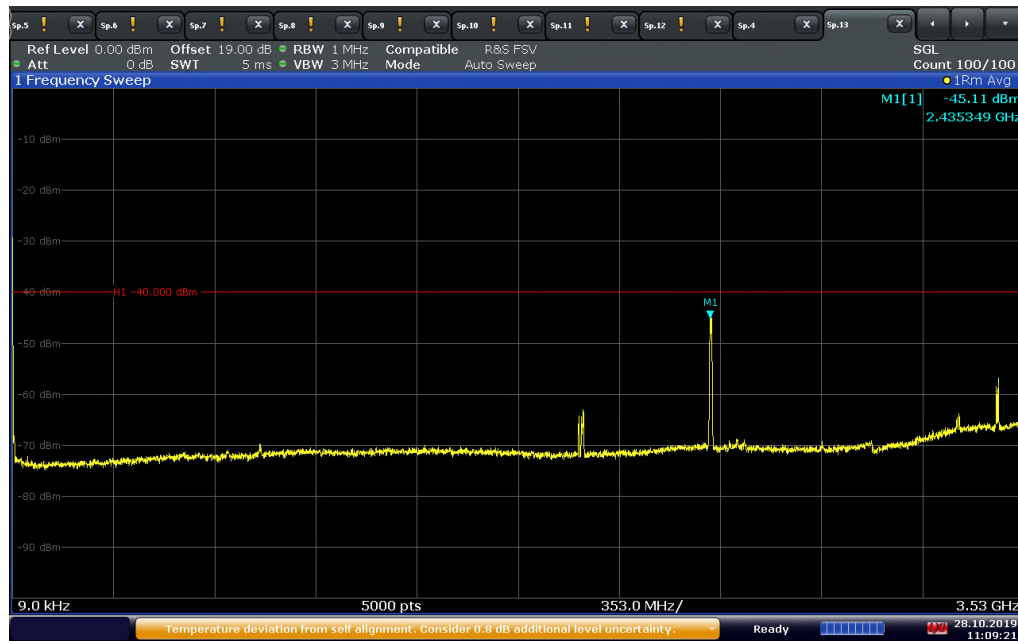


America

LTE Band 42_10 MHz BW / QPSK / Low Channel 3555 MHz
3.72 GHz – 26.5 MHz



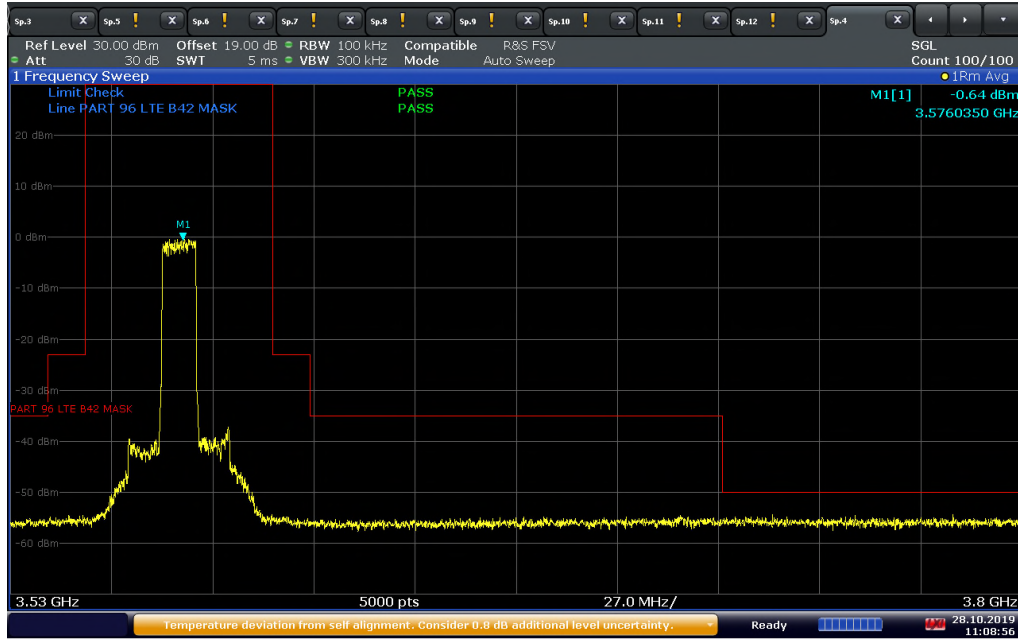
LTE Band 42_10 MHz BW / QPSK / Mid Channel 3575 MHz
9 kHz - 3530 MHz



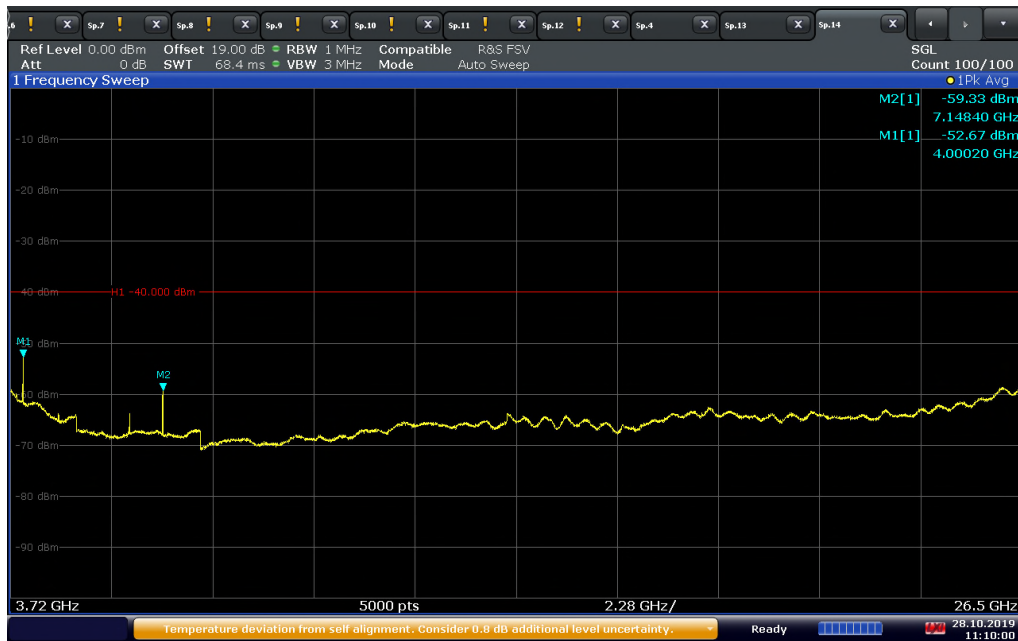


America

LTE Band 42_10 MHz BW / QPSK / Mid Channel 3575 MHz
3.53 GHz – 3.8 MHz



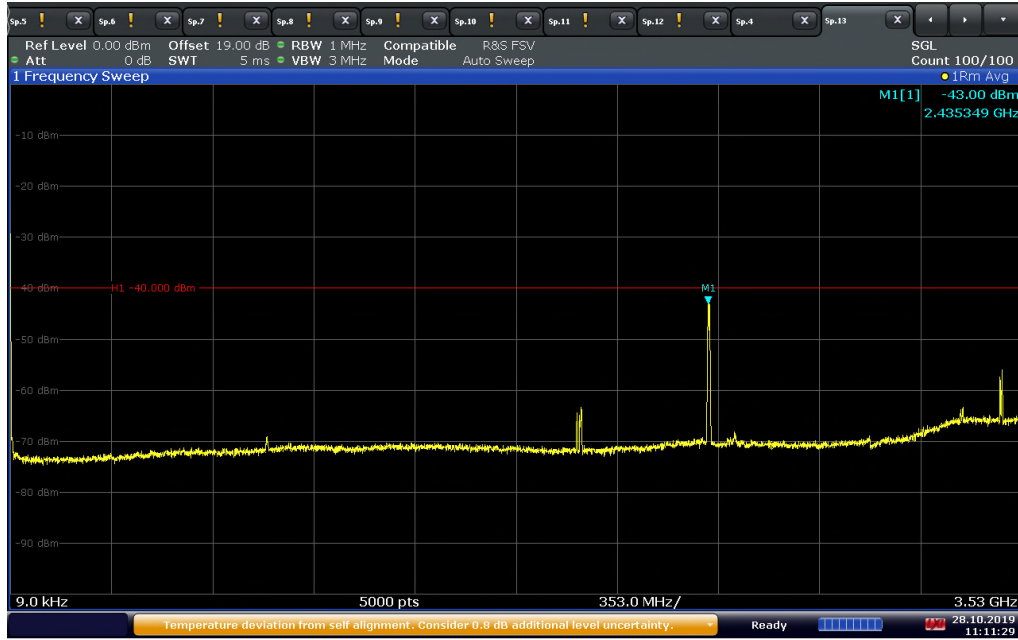
LTE Band 42_10 MHz BW / QPSK / Mid Channel 3575 MHz
3.72 GHz – 26.5 MHz



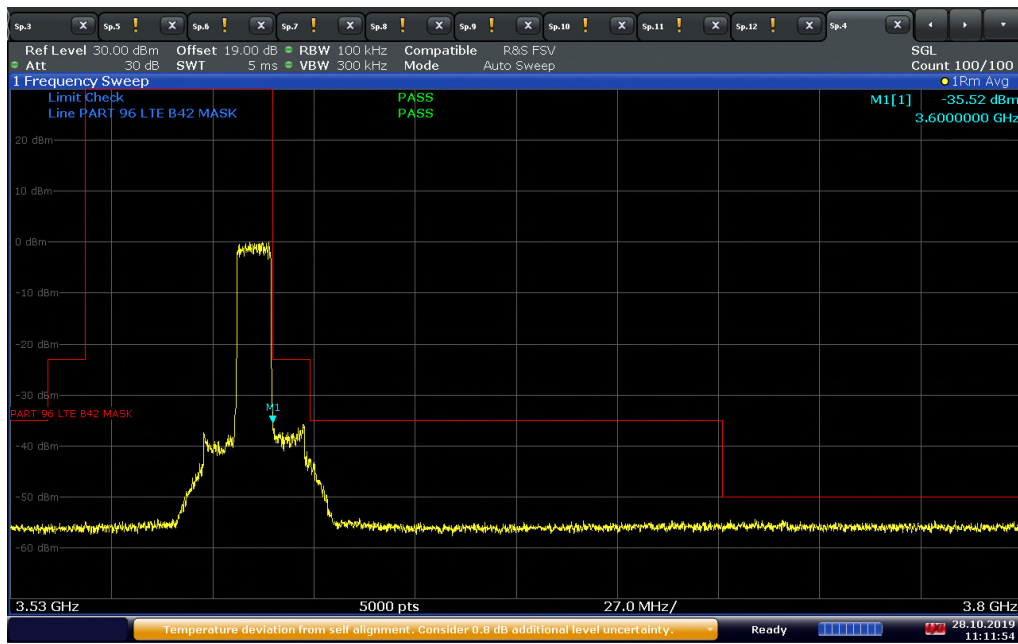


America

LTE Band 42_10 MHz BW / QPSK / High Channel 3595 MHz
9 kHz - 3530 MHz



LTE Band 42_10 MHz BW / QPSK / High Channel 3595 MHz
3.53 GHz - 3.8 MHz





America

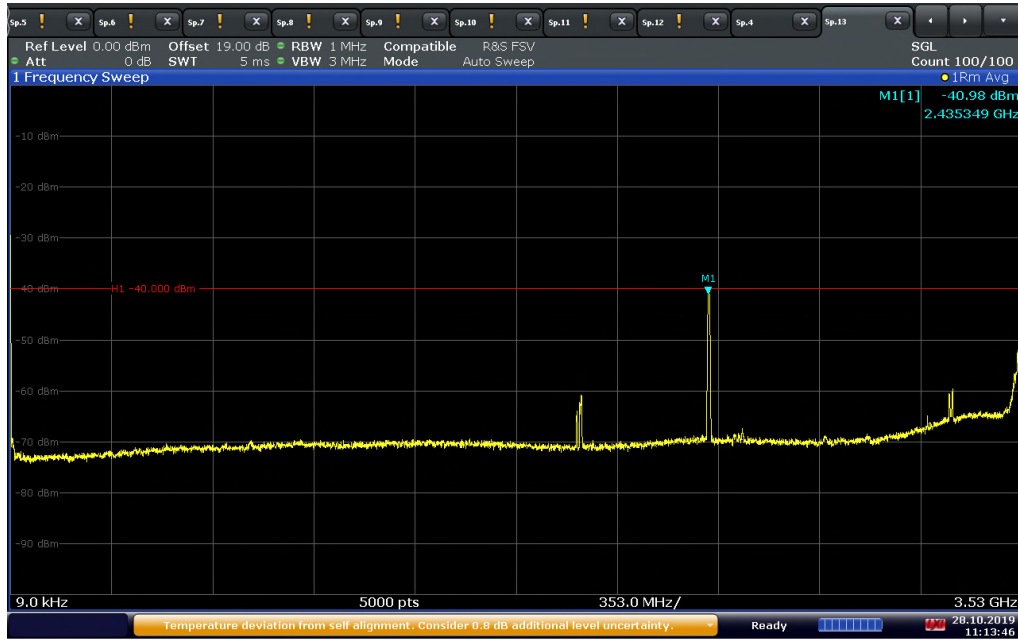
LTE Band 42_10 MHz BW / QPSK / High Channel 3595 MHz
 3.72 GHz – 26.5 MHz



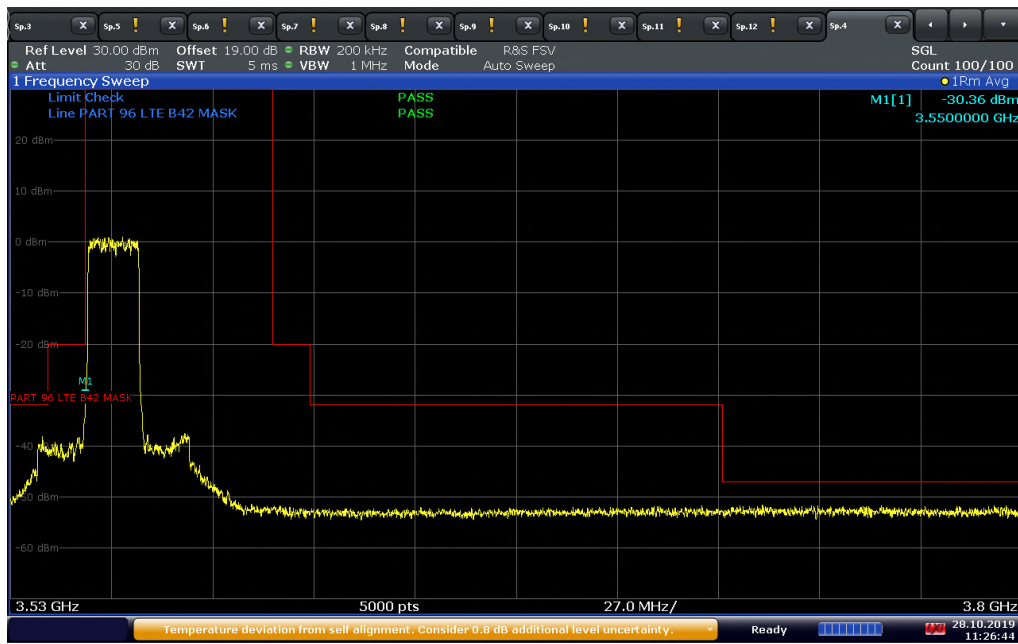


America

LTE Band 42_15 MHz BW / QPSK / Low Channel 3557.5 MHz
9 kHz - 3530 MHz



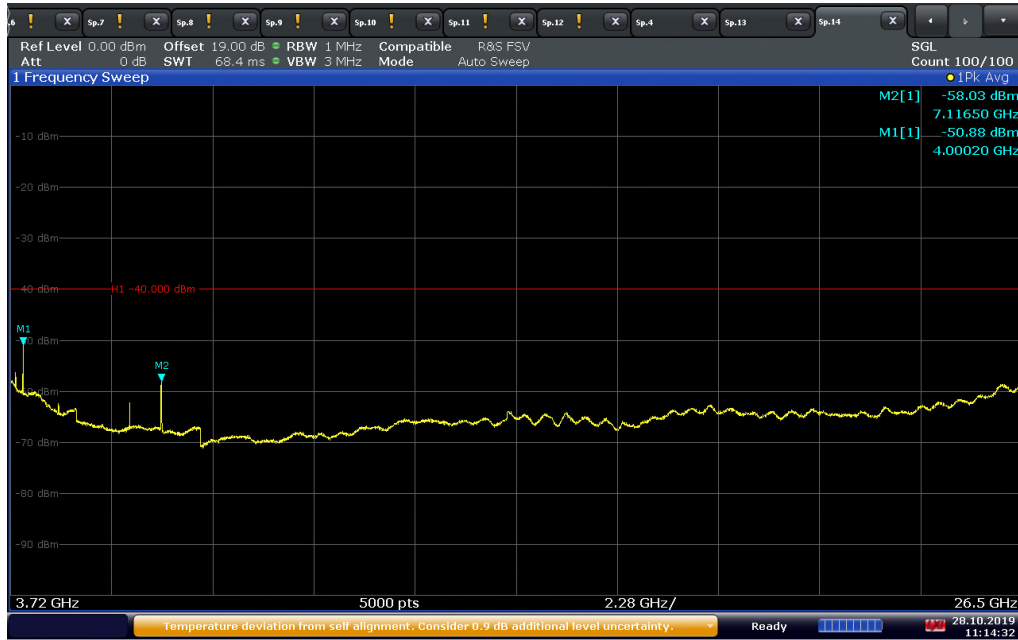
LTE Band 42_15 MHz BW / QPSK / Low Channel 3557.5 MHz
3.53 GHz - 3.8 MHz



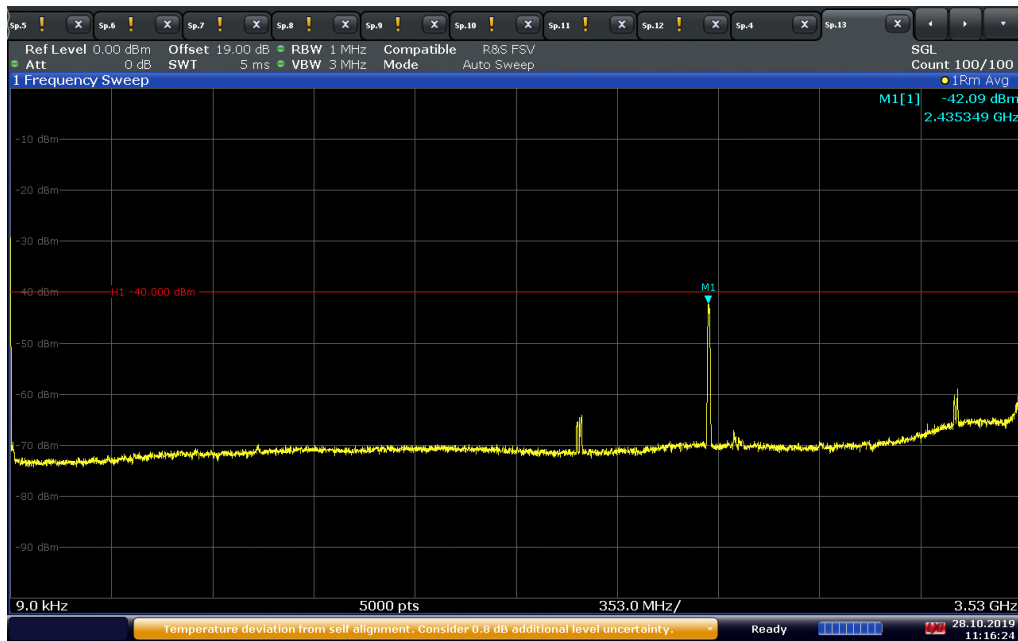


America

LTE Band 42_15 MHz BW / QPSK / Low Channel 3557.5 MHz
3.72 GHz – 26.5 MHz



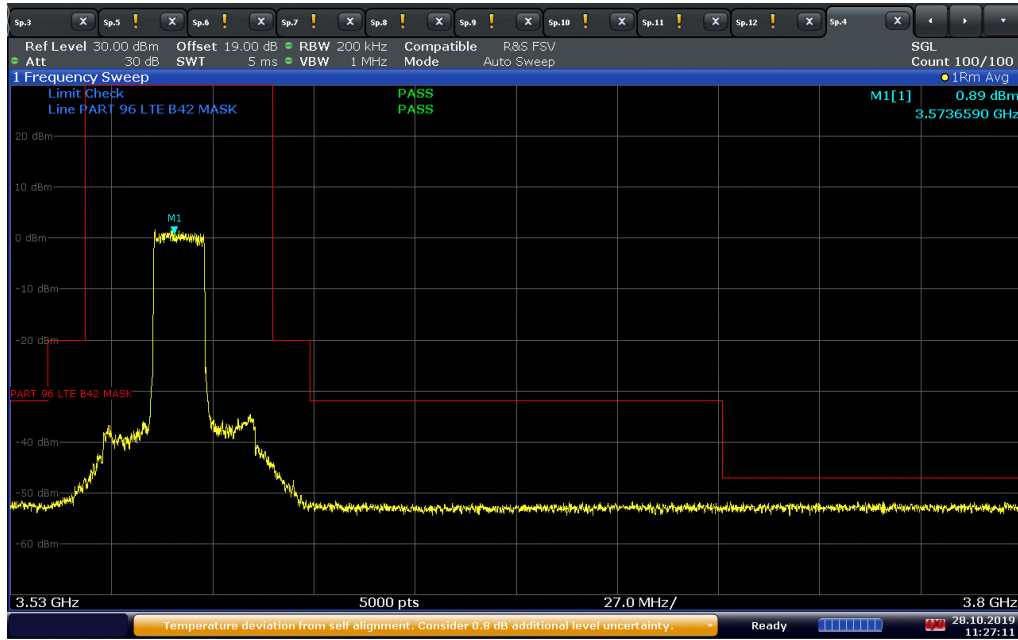
LTE Band 42_15 MHz BW / QPSK / Mid Channel 3575 MHz
9 kHz - 3530 MHz



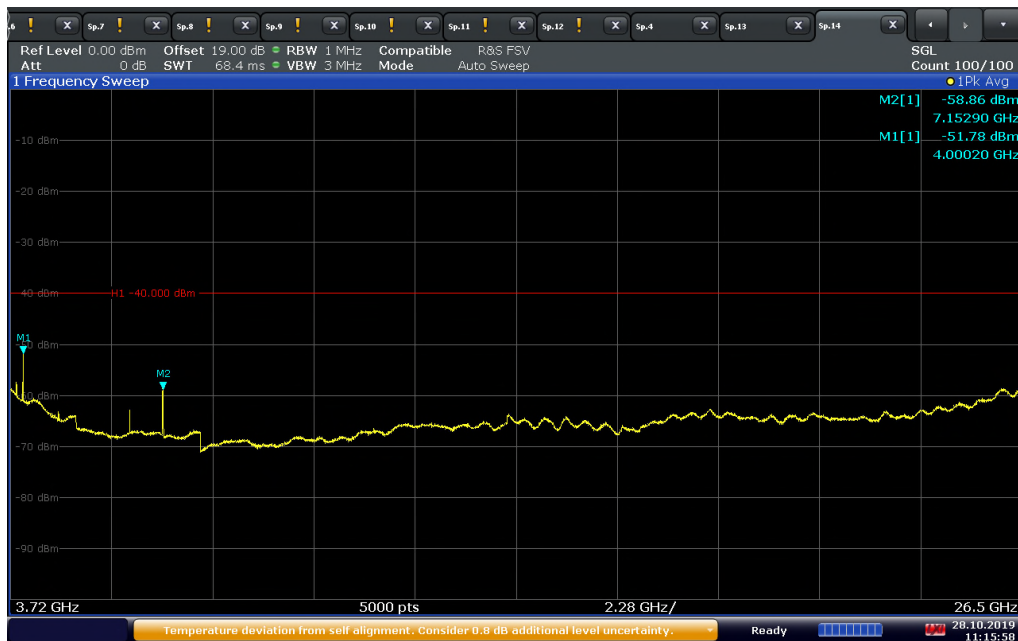


America

LTE Band 42_15 MHz BW / QPSK / Mid Channel 3575 MHz
3.53 GHz – 3.8 MHz



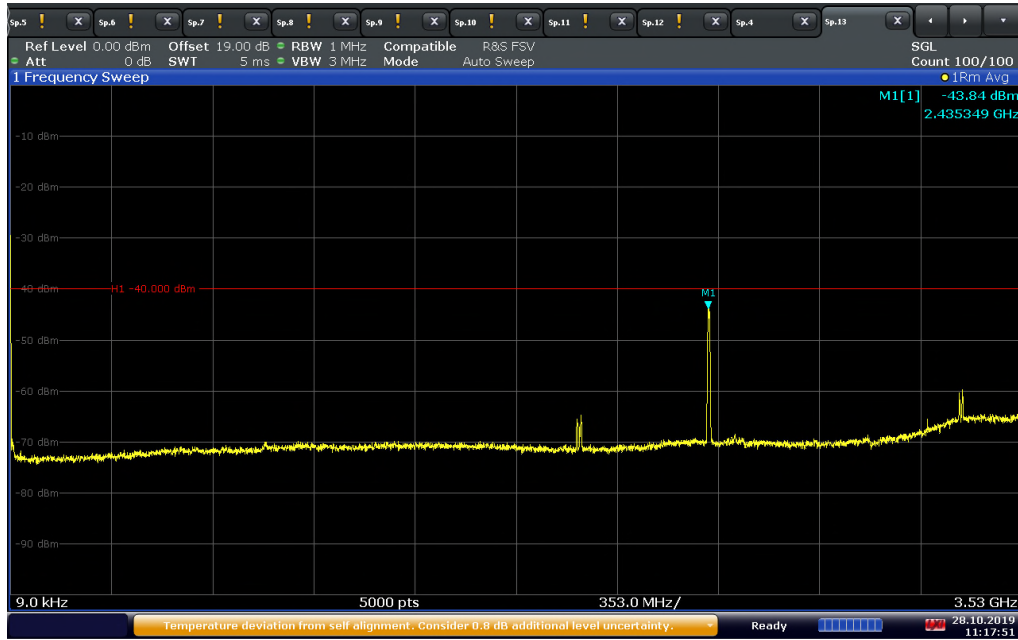
LTE Band 42_15 MHz BW / QPSK / Mid Channel 3575 MHz
3.72 GHz – 26.5 MHz



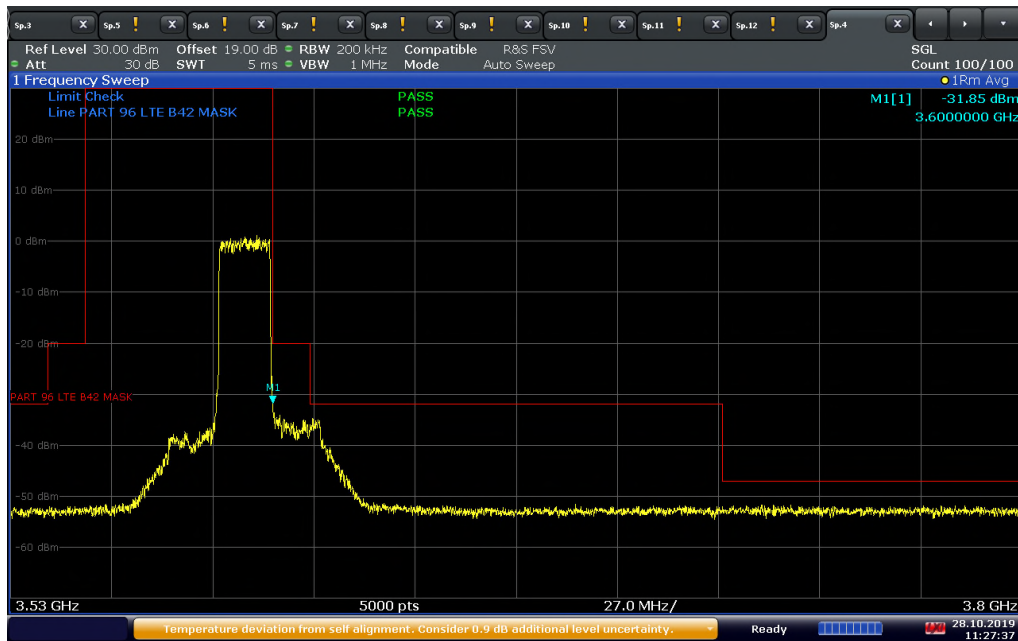


America

LTE Band 42_15 MHz BW / QPSK / High Channel 3592.5 MHz
9 kHz - 3530 MHz



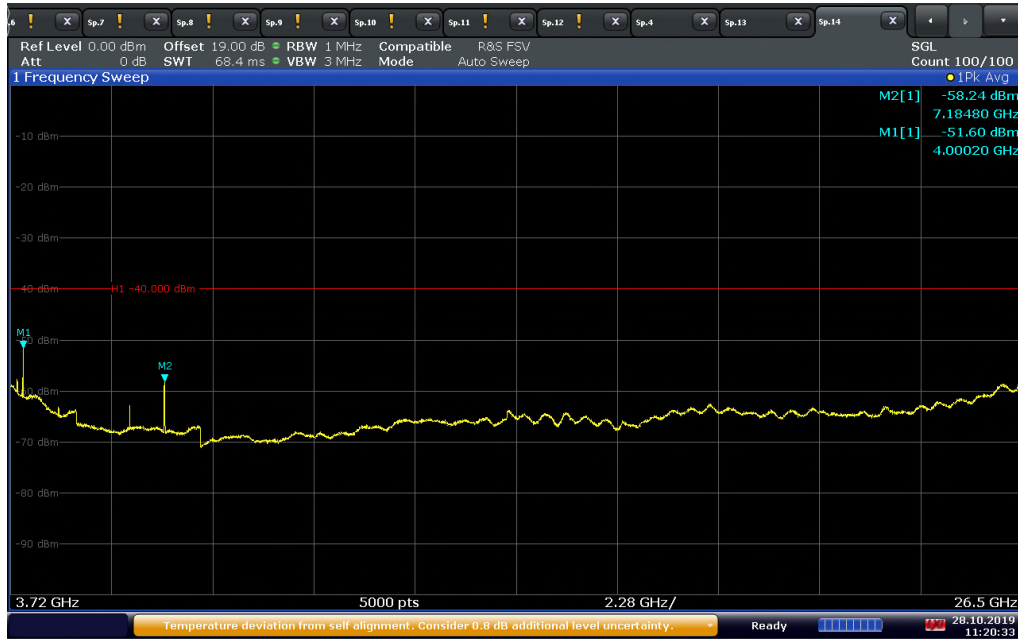
LTE Band 42_15 MHz BW / QPSK / High Channel 3592.5 MHz
3.53 GHz - 3.8 MHz





America

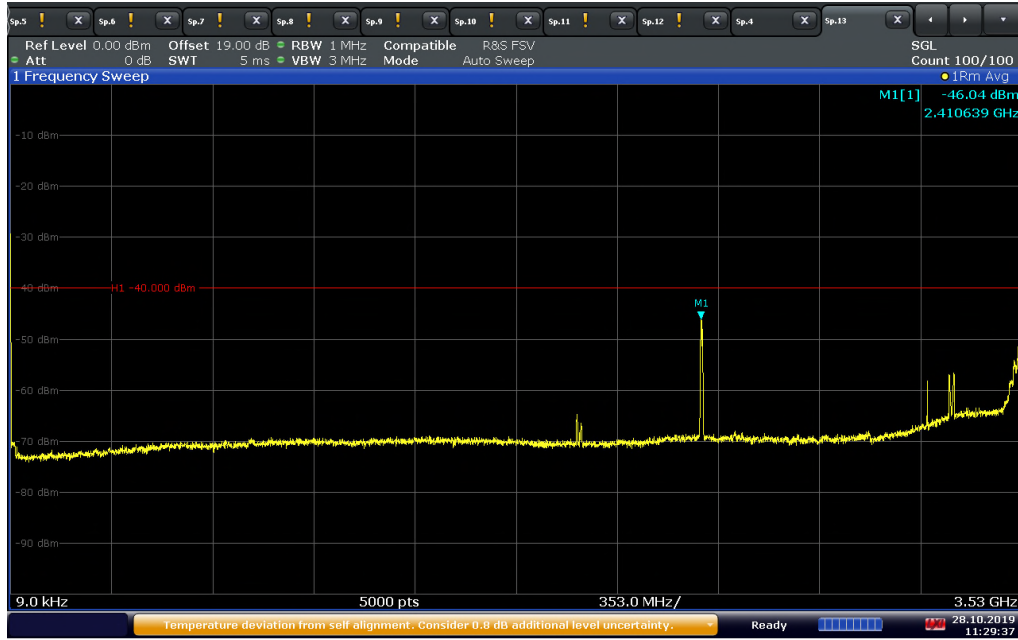
LTE Band 42_15 MHz BW / QPSK / High Channel 3592.5 MHz
3.72 GHz – 26.5 MHz



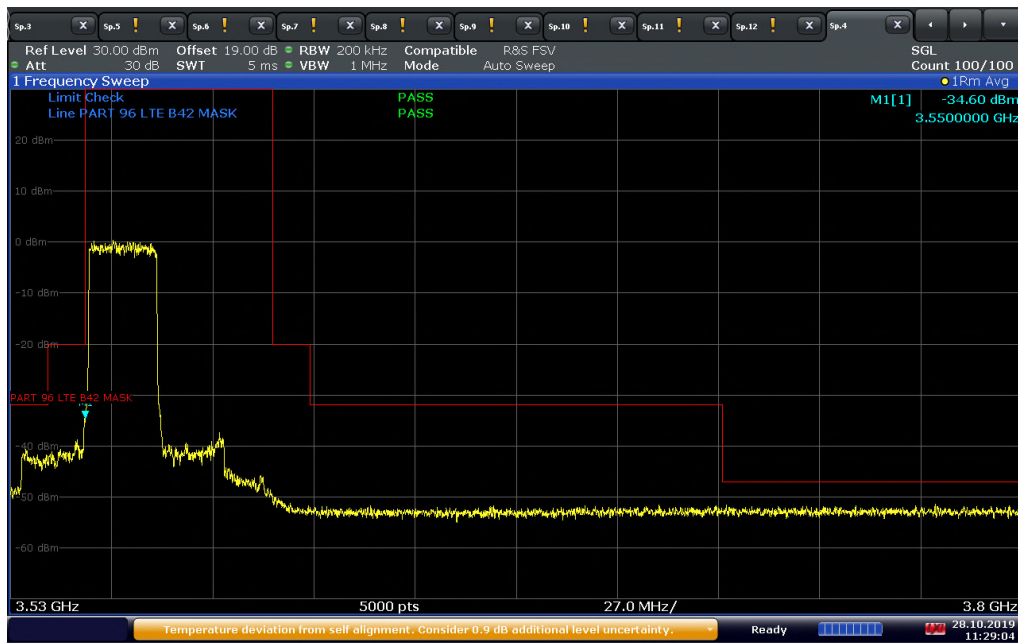


America

LTE Band 42_20 MHz BW / QPSK / Low Channel 3560 MHz
9 kHz - 3530 MHz



LTE Band 42_20 MHz BW / QPSK / Low Channel 3560 MHz
3.53 GHz - 3.8 MHz



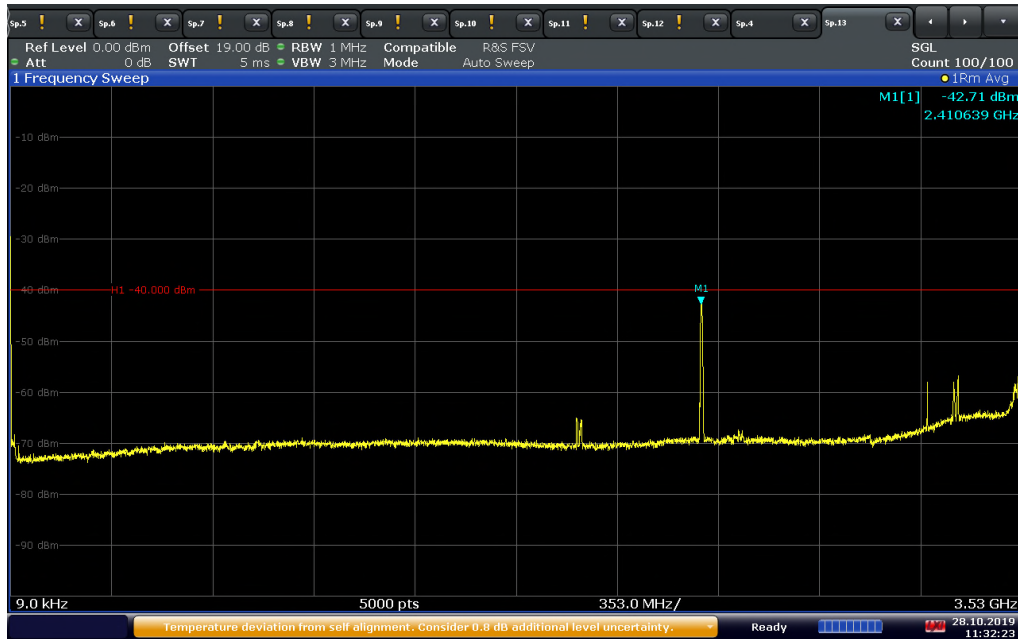


America

LTE Band 42_20 MHz BW / QPSK / Low Channel 3560 MHz
3.72 GHz – 26.5 MHz



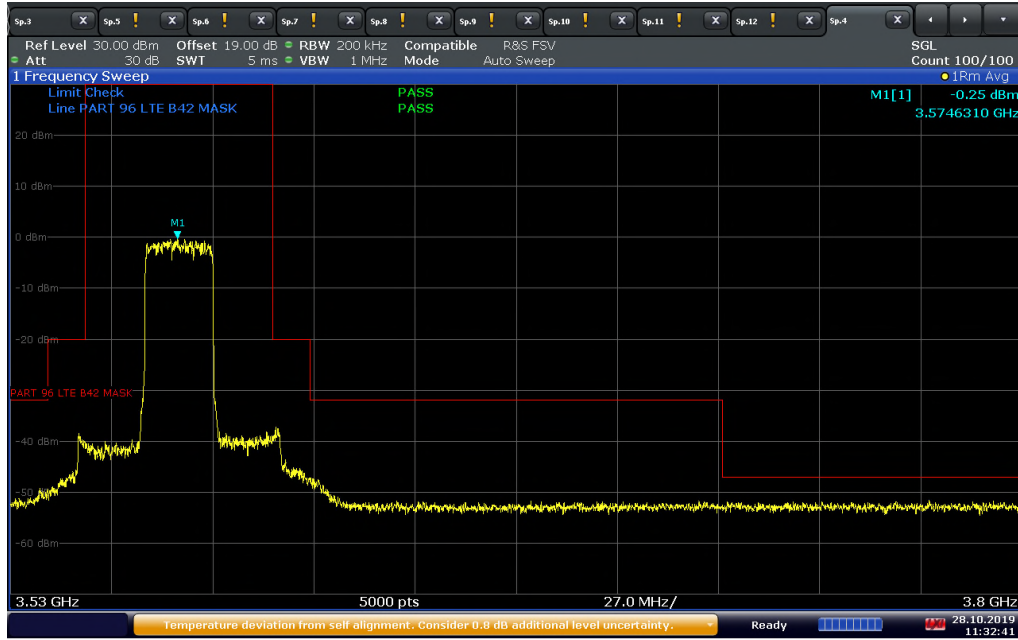
LTE Band 42_20 MHz BW / QPSK / Mid Channel 3575 MHz
9 kHz - 3530 MHz



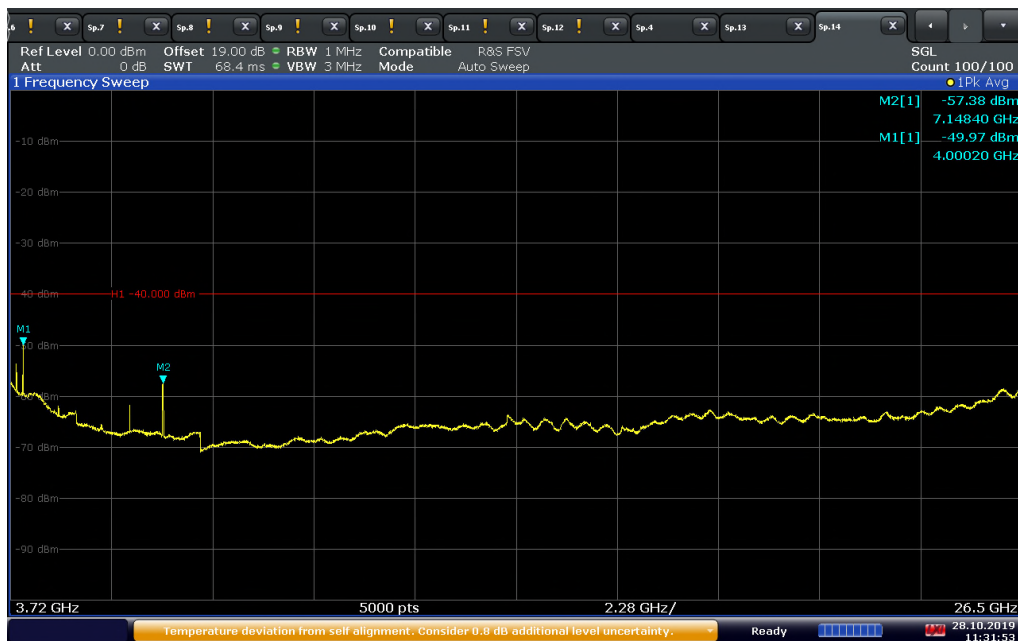


America

LTE Band 42_20 MHz BW / QPSK / Mid Channel 3575 MHz
3.53 GHz – 3.8 MHz



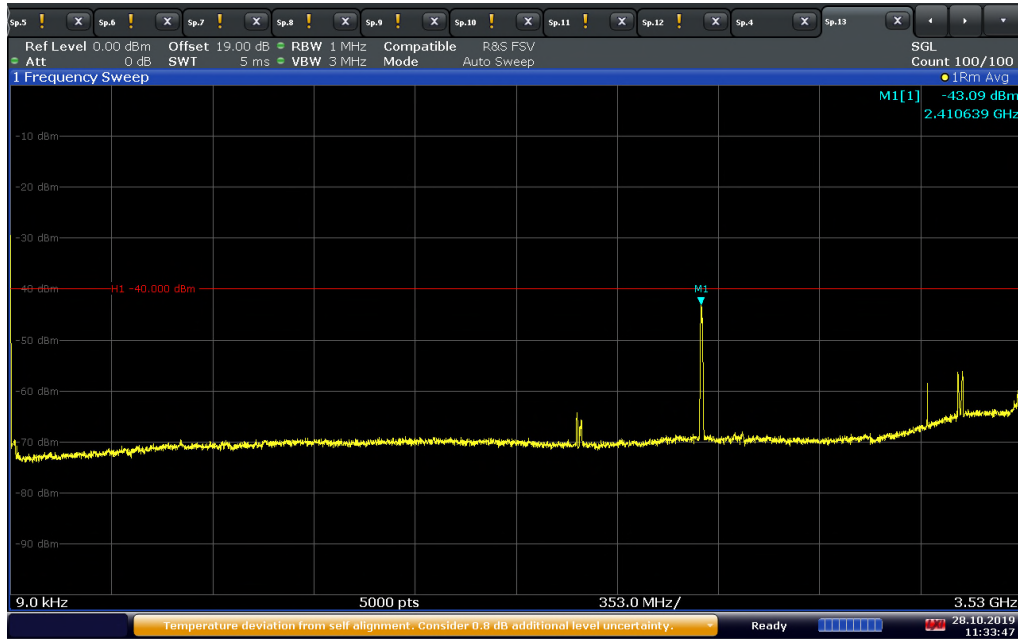
LTE Band 42_20 MHz BW / QPSK / Mid Channel 3575 MHz
3.72 GHz – 26.5 MHz



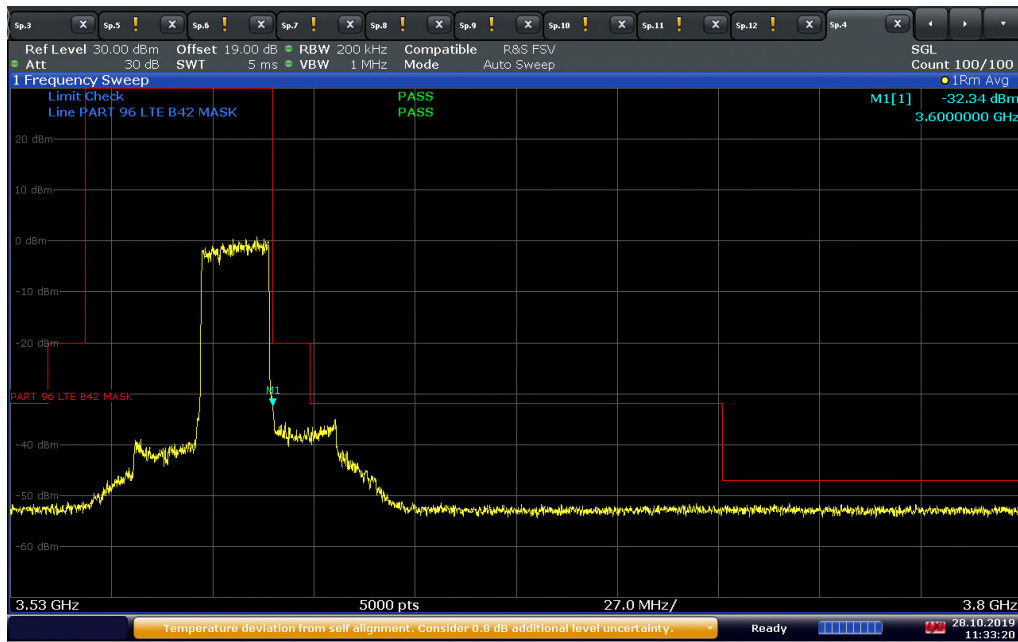


America

LTE Band 42_20 MHz BW / QPSK / High Channel 3590 MHz
9 kHz - 3530 MHz



LTE Band 42_20 MHz BW / QPSK / High Channel 3590 MHz
3.53 GHz - 3.8 MHz





America

LTE Band 42_20 MHz BW / QPSK / High Channel 3590 MHz
3.72 GHz – 26.5 MHz





2.7 FIELD STRENGTH OF SPURIOUS RADIATION

2.7.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1053
FCC 47 CFR Part 96, Clause 96.41(e)

2.7.2 Standard Applicable

FCC 47 CFR Part 96.41:

(e) 3.5 GHz Emissions and Interference Limits - (1) General protection levels. Except as otherwise specified in paragraph (e)(2) of this section, for channel and frequency assignments made by the SAS to CBSDs, the conducted power of any emission outside the fundamental emission (whether in or outside of the authorized band) shall not exceed -13 dBm/MHz within 0-10 megahertz above the upper SAS-assigned channel edge and within 0-10 megahertz below the lower SAS-assigned channel edge. At all frequencies greater than 10 megahertz above the upper SAS assigned channel edge and less than 10 MHz below the lower SAS assigned channel edge, the conducted power of any emission shall not exceed -25 dBm/MHz. The upper and lower SAS assigned channel edges are the upper and lower limits of any channel assigned to a CBSD by an SAS, or in the case of multiple contiguous channels, the upper and lower limits of the combined contiguous channels.

(2) Additional protection levels: Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

2.7.3 Equipment Under Test and Modification State

Serial No: FG090719C00005 / Test Configuration B

2.7.4 Date of Test/Initial of test personnel who performed the test

November 22, 2019 / AC

2.7.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.



2.7.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature	23.4 °C
Relative Humidity	46.3 %
ATM Pressure	98.7 kPa

2.7.7 Additional Observations

- This is a radiated test using substitution method as per Unwanted Emissions: Radiated Spurious method of measurement of Sub clause 5.5 of ANSI C63.16-2015.
- Emissions within 6dB of the limit will be proven by substitution method.
- Only the worst case configuration presented in this test report.
- Only noise floor measurements observed above 18GHz.
- Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only.

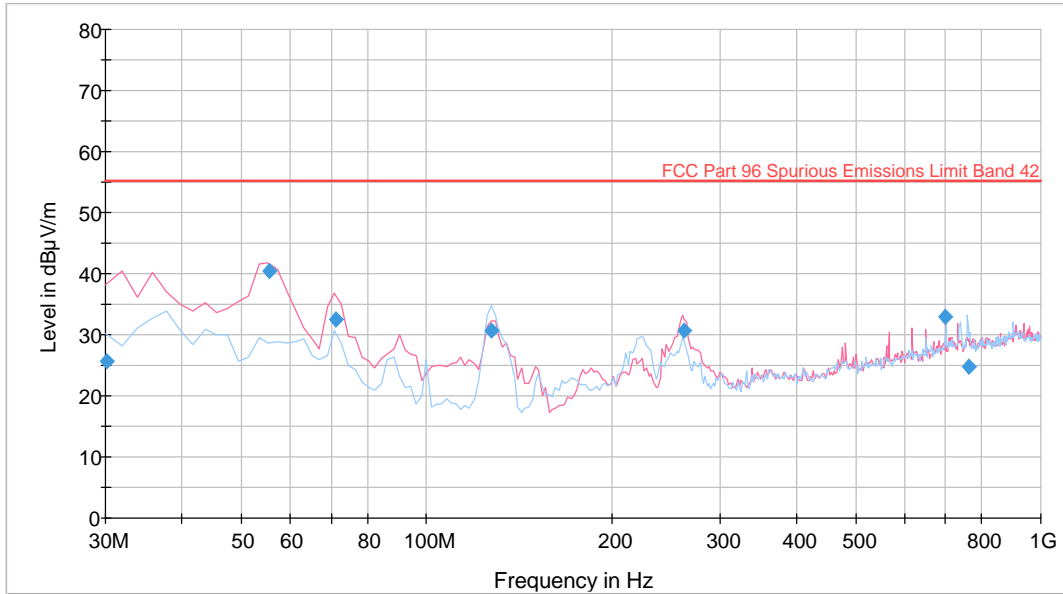
2.7.8 Test Results

See attached plots.



2.7.9 Radiated Emission Test Results Below 1GHz – Worst Case Band 42_QPSK_15 MHz BW 1RB 0 offset_Middle Channel 3575 MHz

Continuous Rotation TUV 3m Radiated 30 to 1000MHz



- FCC Part 96 Spurious Emissions Limit Band 42 [..\EMI Radiated]
- Preview Result 1V-PK+ [Preview Result 1V.Result:2]
- Preview Result 1H-PK+ [Preview Result 1H.Result:2]
- ◆ Final Result 1-QPK [Final Result 1.Result:1]

Quasi Peak Data

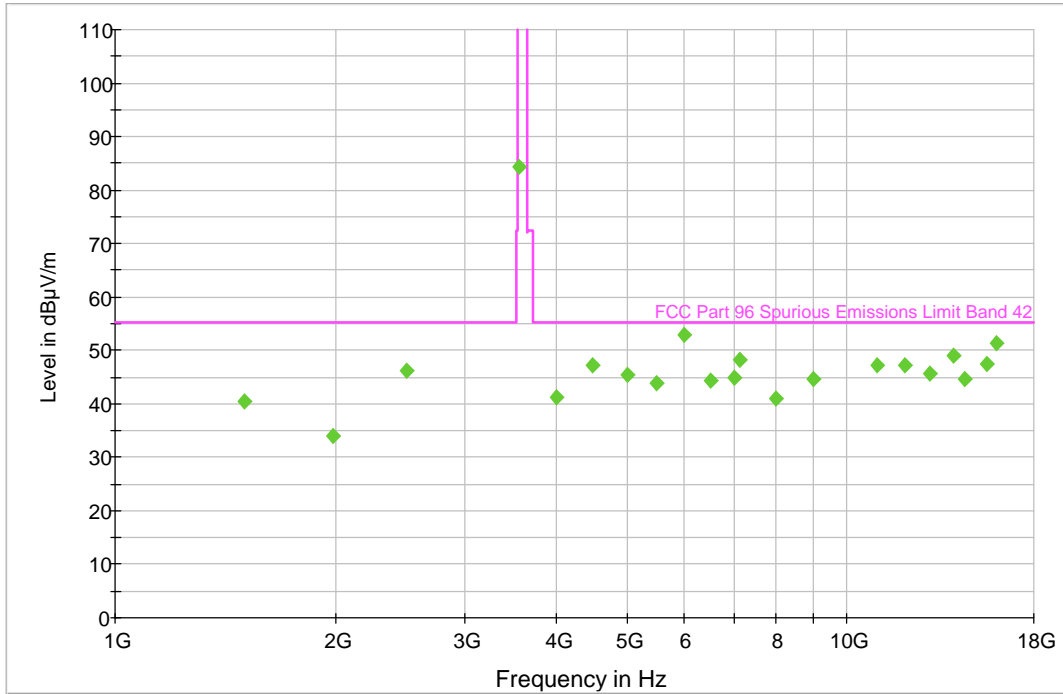
Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
30.200000	25.7	1000.0	120.000	150.0	V	198.0	-7.8	29.5	55.2
55.350541	40.5	1000.0	120.000	100.0	V	43.0	-15.8	14.7	55.2
71.301643	32.5	1000.0	120.000	126.0	V	320.0	-17.0	22.7	55.2
127.474389	30.7	1000.0	120.000	150.0	H	97.0	-14.3	24.5	55.2
262.402645	30.8	1000.0	120.000	100.0	V	87.0	-8.3	24.4	55.2
700.001283	33.0	1000.0	120.000	109.0	V	223.0	2.6	22.2	55.2
762.341804	24.7	1000.0	120.000	100.0	H	22.0	3.1	30.5	55.2

Test Notes: Only worst case modulation/bandwidth/channel presented for spurious emissions below 1GHz.



2.7.10 Radiated Emission Test Results Above 1GHz – Worst Case Band 42_QPSK_15 MHz BW 1RB 0 offset_Middle Channel 3575 MHz

Continuous Rotation TUV 3m Radiated 1000 to 18000MHz



— FCC Part 96 Spurious Emissions Limit Band 42 [..EMI Radiated] Final Result 2-AVG [Final Result 2.Res

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Peak Margin (dB)	Limit (dBµV/m)
1500.000000	40.4	1000.0	1000.000	103.7	H	14.0	-6.1	14.8	55.2
1986.533333	34.0	1000.0	1000.000	102.7	V	260.0	-2.3	21.2	55.2
2500.166667	46.2	1000.0	1000.000	151.2	V	177.0	-0.3	9.0	55.2
3568.333333	84.3	1000.0	1000.000	405.0	H	333.0	1.7	45.7	130.0
4000.133333	41.2	1000.0	1000.000	131.7	H	74.0	2.5	14.0	55.2
4499.933333	47.2	1000.0	1000.000	300.2	V	25.0	3.7	8.0	55.2
5000.133333	45.5	1000.0	1000.000	406.7	V	172.0	3.8	9.7	55.2
5500.100000	43.8	1000.0	1000.000	378.1	H	10.0	5.0	11.4	55.2
5999.900000	53.0	1000.0	1000.000	234.4	V	55.0	5.7	2.2	55.2
6499.866667	44.3	1000.0	1000.000	252.3	V	69.0	6.3	10.9	55.2
7000.066667	44.9	1000.0	1000.000	410.7	H	327.0	6.7	10.3	55.2
7136.633333	48.4	1000.0	1000.000	228.4	V	40.0	7.0	6.8	55.2
7999.833333	40.9	1000.0	1000.000	406.7	V	333.0	6.9	14.3	55.2
9000.000000	44.5	1000.0	1000.000	289.2	V	79.0	7.6	10.7	55.2
11000.166667	47.3	1000.0	1000.000	395.0	H	141.0	11.8	7.9	55.2
11999.933333	47.3	1000.0	1000.000	410.7	H	149.0	13.5	7.9	55.2
13000.100000	45.7	1000.0	1000.000	351.6	V	78.0	13.6	9.5	55.2
13999.900000	48.9	1000.0	1000.000	352.1	H	200.0	14.7	6.3	55.2
14500.066667	44.6	1000.0	1000.000	340.1	H	135.0	15.4	10.6	55.2
15500.066667	47.5	1000.0	1000.000	352.1	V	86.0	16.1	7.7	55.2
16000.033333	51.5	1000.0	1000.000	300.2	V	59.0	16.3	3.7	55.2



America

Substitution Data

Frequency (MHz)	Field Strength @ 3 meters (dB μ V/m)	Cable Loss (dB)	Substitution Antenna Gain (dBi)	Signal Generator Level (dBm)	Substitution Data SGL+AG-CL (dBm)	Limit (dBm)	Compliance
5999.900000	53.0	-6.4	11.74	-47.5	-42.16	-40	Yes
16000.033333	51.5	-14.7	16.4	-45.5	-43.8	-40	Yes



2.8 FREQUENCY STABILITY

2.8.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1055

2.8.2 Standard Applicable

The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

2.8.3 Equipment Under Test and Modification State

Serial No: FJ220819C00056 / Test Configuration A

2.8.4 Date of Test/Initial of test personnel who performed the test

October 15, 2019 / AC

2.8.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.8.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature	24.8 °C
Relative Humidity	43.2 %
ATM Pressure	98.8 kPa



2.8.7 Additional Observations

- This is a conducted test. The EUT was operated at 3.7 VDC nominal voltage and was placed in the temperature chamber for this evaluation. The EUT was controlled by a CMW500 and utilizing a spectrum analyser for measurement.
- Test performed in 5 MHz Bandwidth Middle channel as the representative configuration.
- Measurement was done using the CMW 500 measurement function.
- The EUT was tested over the temperature -30°C to +50°C in 10°C steps and allowed to sit for 1 hour to allow the equipment and chamber temperature to stabilize. The measurements were then performed.
- Voltage variation was also performed at voltage 3.3VDC and higher 4.3VDC of the nominal voltage at 20°C.

2.8.8 Test Results

LTE Band 42 – QPSK 5 MHz BW-Middle Channel 3575 MHz				
Voltage (VDC)	Temperature (°C)	Frequency Error (Hz)	Frequency Error (ppm)	Limit (ppm)
3.7	-30	-29.49	-0.0083	-
	-20	25.71	0.0072	-
	-10	-29.21	-0.0082	-
	0	28.88	0.0081	-
	+10	-24.39	-0.0068	-
	+20	-28.71	-0.008	-
	+30	25.19	0.00704	-
	+40	29.97	0.0084	-
	+50	-27.48	-0.0077	-
3.3	20	-24.07	-0.0067	-
4.3		29.05	0.0081	-

The frequency stability of the EUT is sufficient to keep it within the authorised frequency ranges at any temperature interval and voltage variations across the measured range.



2.8.9 Sample Test Results

CMW 500 V 3.7.120 - LTE Measurement - V3.7.60 - TX Measurement									
Multi Evaluation PRACH SRS									
TDD	Freq: 3575.0 MHz	Ref. Level: 41.00 dBm	BW: 15.0 MHz	CP: Normal	Meas Subfr./Slot: 0 / All				
TX Measurement									
Detected Allocation	NoRB:	75OffsetRB:			0				
		Current	Average	Extreme	StdDev				
EVM RMS [%] I/h	4.11	4.14	5.02	4.29	6.01	4.49	0.85	0.12	
EVM Peak [%] I/h	30.13	30.31	66.62	29.50	109.87	35.45	40.16	2.78	
EVM DMRS [%] I/h	6.06	6.08	6.09	6.14	6.23	6.30	0.06	0.08	
MErr RMS [%] I/h	3.51	3.52	4.41	3.65	5.48	3.80	0.85	0.10	
MErr Peak [%] I/h	-27.70	-30.25	58.48	29.29	-99.79	-35.44	32.88	2.84	
MErr DMRS [%] I/h	4.11	4.14	4.11	4.16	4.23	4.38	0.08	0.11	
PhErr RMS [°] I/h	1.24	1.27	2.17	1.31	3.50	1.41	0.81	0.04	
PhErr Peak [°] I/h	-8.00	12.30	68.34	9.68	-172.04	-15.46	63.19	2.17	
PhErr DMRS [°] I/h	2.56	2.56	2.58	2.59	2.69	2.70	0.03	0.03	
IQ Offset [dBc]		-51.13		-51.14		-49.50		1.05	
IQ Gain Imbalance [dB]		-0.01		-0.01		-0.03		0.01	
IQ Quadrature Error [°]		0.07		0.14		0.30		0.10	
Freq Error [Hz]		-0.69		-1.05		-28.71		13.63	
Timing Error [Ts]		-39.63		-42.96		-46.04		2.79	
OBW [MHz]		13.37		13.37		13.37		0.00	
		Current	Average	Min	Max	StdDev			
TX Power [dBm]		26.08	26.06	25.99	26.18	0.06			
Peak Power [dBm]		30.08	31.00	30.81	31.17	0.07			
Statistic Count	Out of Tolerance	Detected Modulation	Detected Channel Type	View Filter	Throughput				
20 / 20	0.00 %	QPSK	PUSCH	100.0 %					
PS:	Connection Established	RRC State: Connected							

LTE Band 42 – QPSK 5 MHz BW-Middle Channel 3575 MHz at Normal Voltage 20°C



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

ID Number (SDGE/SDRB/FRGE)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
Antenna Conducted Port Setup						
7662	P-Series Power Meter	N1911A	MY45100951	Agilent	06/28/19	06/28/20
7605	50MHz-18GHz Wideband Power Sensor	N1921A	MY51100054	Agilent	07/24/19	07/24/20
7582	Signal/Spectrum Analyzer	FSW26	101614	Rhode & Schwarz	01/07/19	01/07/20
40813	Wideband Radio Communication Tester	CMW500	145913-RH	Rhode & Schwarz	04/22/19	04/22/20
41535	10dB Attenuator with Blue RF Cable	8772	606-10-1F4/DR and W17.02	MECA	08/16/19	08/16/20
8801	Power Divider	1506A	RR003	Aeroflex Weinschel	Verified by 7608 and 7582	
43135	RF Cable	SMA Cable	JX50013-48	RF Precision Cables	09/09/19	09/09/20
7608	Vector Signal Generator	SMBV100A	259021	Rhode & Schwarz	10/10/19	10/10/21
6006	Spectrum Analyzer (9kHz – 6GHz)	FSL6	100346	Rhode & Schwarz	05/23/19	05/23/20
Radiated Test Setup						
7582	Signal/Spectrum Analyzer	FSW26	101614	Rhode & Schwarz	01/07/19	01/07/20
7608	Vector Signal Generator	SMBV100A	259021	Rhode & Schwarz	10/10/19	10/10/21
1033	Bilog Antenna	3142C	00044556	EMCO	09/05/19	09/05/21
7575	Double-ridged waveguide horn antenna	3117	00155511	EMCO	06/16/18	06/16/20
1016	Pre-amplifier	PAM-0202	187	PAM	03/08/19	03/08/20
8921	High-frequency cable	SucoFlex 100 SX	N/A	Suhner	Verified by 7608 and 7582	
8923	High-frequency cable	Micropore 19057793	N/A	United Microwave Products	Verified by 7608 and 7582	
1040	EMI Test Receiver	ESIB40	100292	Rhode & Schwarz	10/10/19	10/10/20
7620	EMI Test Receiver	ESU	100399	Rhode & Schwarz	10/18/19	10/18/20
8628	Pre-amplifier	QLI-01182835-JO	8986002	Quinstar	03/07/19	03/07/20
40813	Wideband Radio Communication Tester	CMW500	145913-RH	Rhode & Schwarz	04/22/19	04/22/20
Miscellaneous						
43003	True RMS Multimeter	85 III	96880143	Fluke	10/07/19	10/07/20
7579	Temperature Chamber	115	151617	TestQuity	09/18/19	09/18/20
7619	Temp & Humidity Sensor	iBTHX-W	15050268	Omega	06/18/19	06/18/20
—	Test Software	EMC32	V8.53	Rhode & Schwarz	N/A	



3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

3.2.1 Conducted Antenna Port Measurement

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Cable attenuation	1.00 dB	Normal, k=2	2.000	0.50	0.25
3	Receiver sinewave accuracy	0.08 dB	Normal, k=2	2.000	0.04	0.00
4	Receiver pulse amplitude	0.00 dB	Rectangular	1.732	0.00	0.00
5	Receiver pulse repetition rate	0.00 dB	Rectangular	1.732	0.00	0.00
6	Noise floor proximity	0.00 dB	Rectangular	1.732	0.00	0.00
7	Frequency interpolation	0.10 dB	Rectangular	1.732	0.06	0.00
8	Mismatch	0.07 dB	U-shaped	1.414	0.05	0.00
Combined standard uncertainty			Normal		0.52 dB	
Expanded uncertainty			Normal, k=2		1.03 dB	

3.2.2 Radiated Emission Measurement 30 MHz – 1000 MHz at a distance of 3 m

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.75 dB	Normal, k=2	2.000	0.38	0.14
4	Receiver sinewave accuracy	0.45 dB	Normal, k=2	2.000	0.23	0.05
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarization	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.76 dB	Triangular	2.449	1.54	2.36
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.77 dB	Rectangular	1.732	0.44	0.20
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal		2.95 dB	
Expanded uncertainty			Normal, k=2		5.90 dB	



3.2.3 Radiated Emission Measurements Above 1GHz at a distance of 3 m

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.30 dB	Normal, k=2	2.000	0.15	0.02
3	Preamplifier Gain	0.20 dB	Normal, k=2	2.000	0.10	0.01
4	Antenna factor AF	0.37 dB	Normal, k=2	2.000	0.19	0.03
5	Sinewave accuracy	0.57 dB	Normal, k=2	2.000	0.29	0.08
6	Instability of preamp gain	1.21 dB	Rectangular	1.732	0.70	0.49
7	Noise floor proximity	0.70 dB	Rectangular	1.732	0.40	0.16
8	Mismatch: antenna-preamplifier	1.41 dB	U-shaped	1.414	1.00	0.99
9	Mismatch: preamplifier-receiver	1.30 dB	U-shaped	1.414	0.92	0.85
10	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
11	Directivity difference at 3 m	1.50 dB	Rectangular	1.732	0.87	0.75
12	Phase center location at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
13	Cross-polarization	0.90 dB	Rectangular	1.732	0.52	0.27
14	Site imperfections VSWR (Method 2)	3.00 dB	Triangular	2.449	1.22	1.50
15	Effect of setup table material	1.50 dB	Rectangular	1.732	0.87	0.75
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Table height at 3 m	0.00 dB	Normal, k=2	2.000	0.00	0.00
Combined standard uncertainty			Normal	2.45	dB	
Expanded uncertainty			Normal, k=2	4.90	dB	



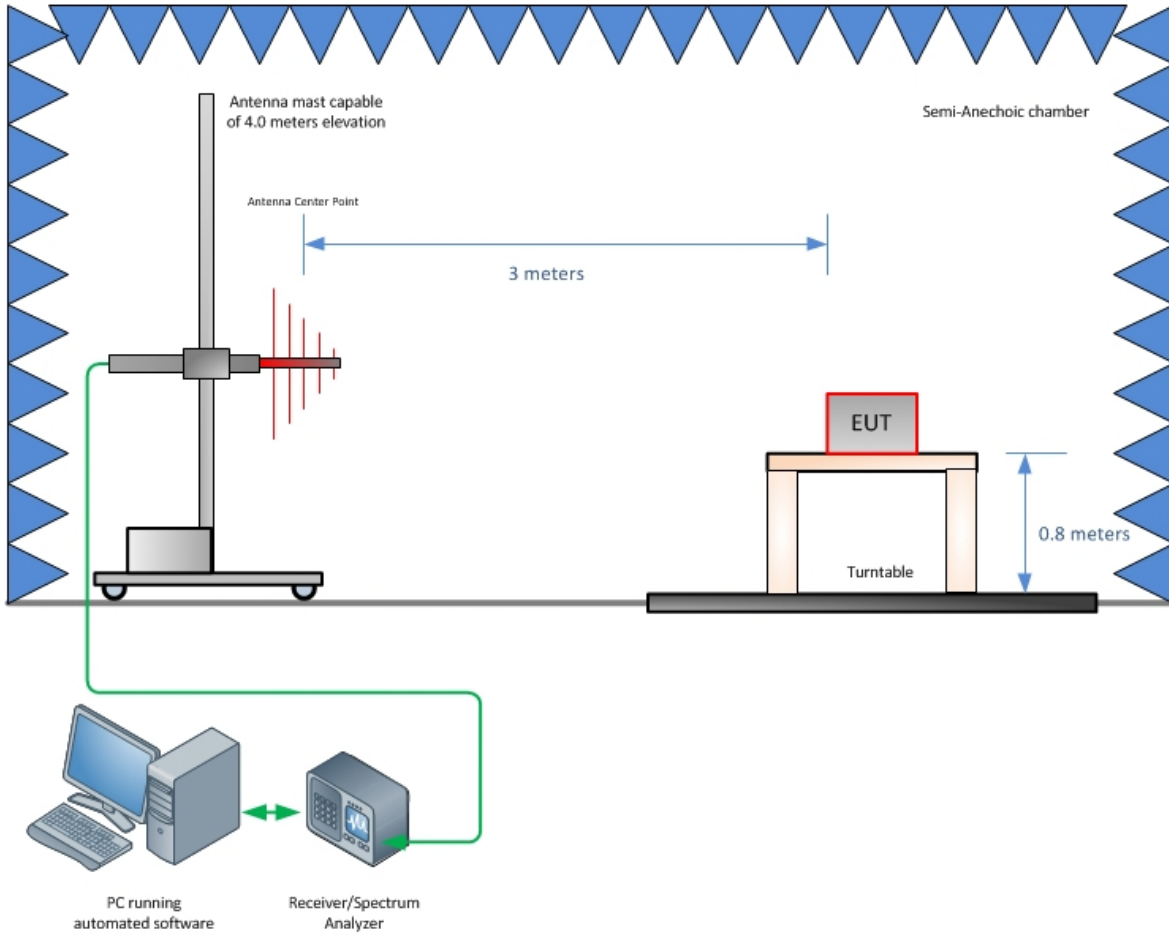
SECTION 4

DIAGRAM OF TEST SETUP

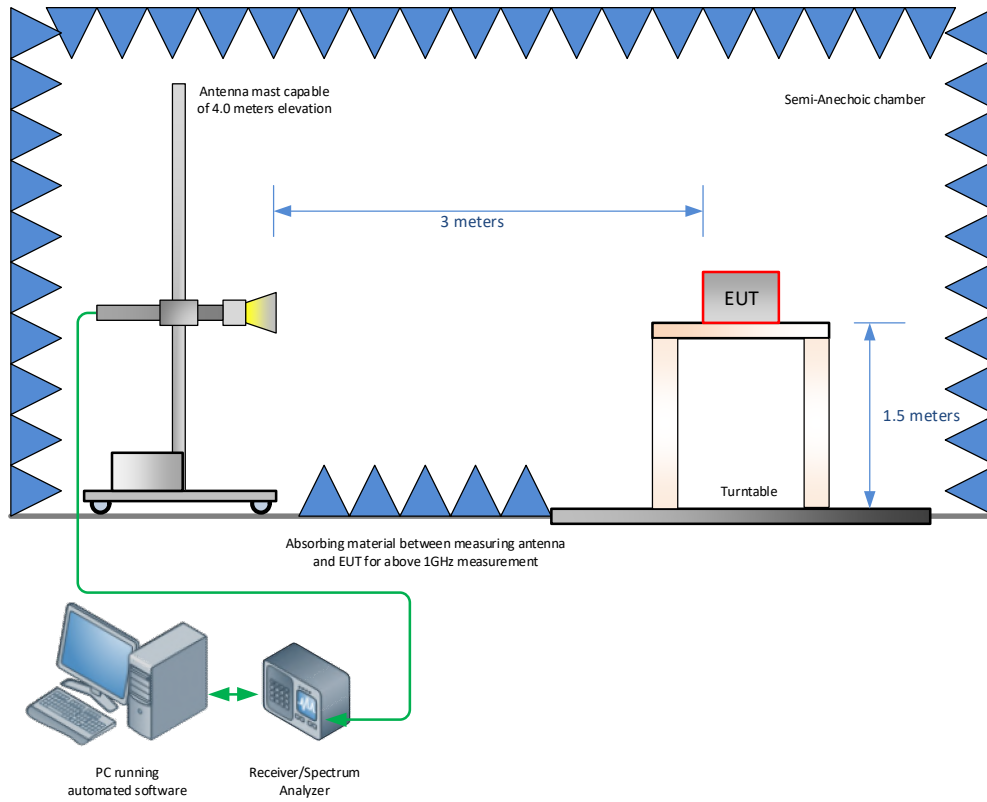


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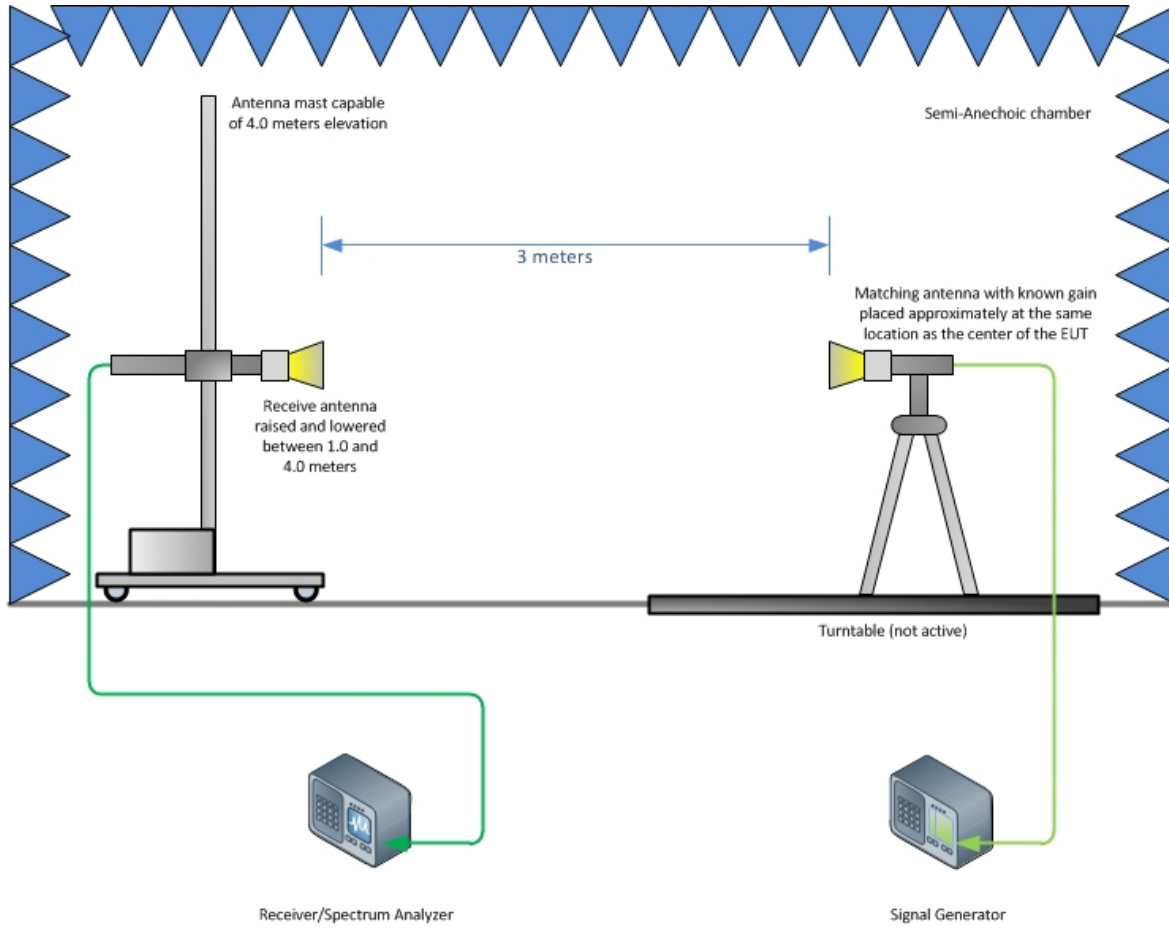
4.1 TEST SETUP DIAGRAM



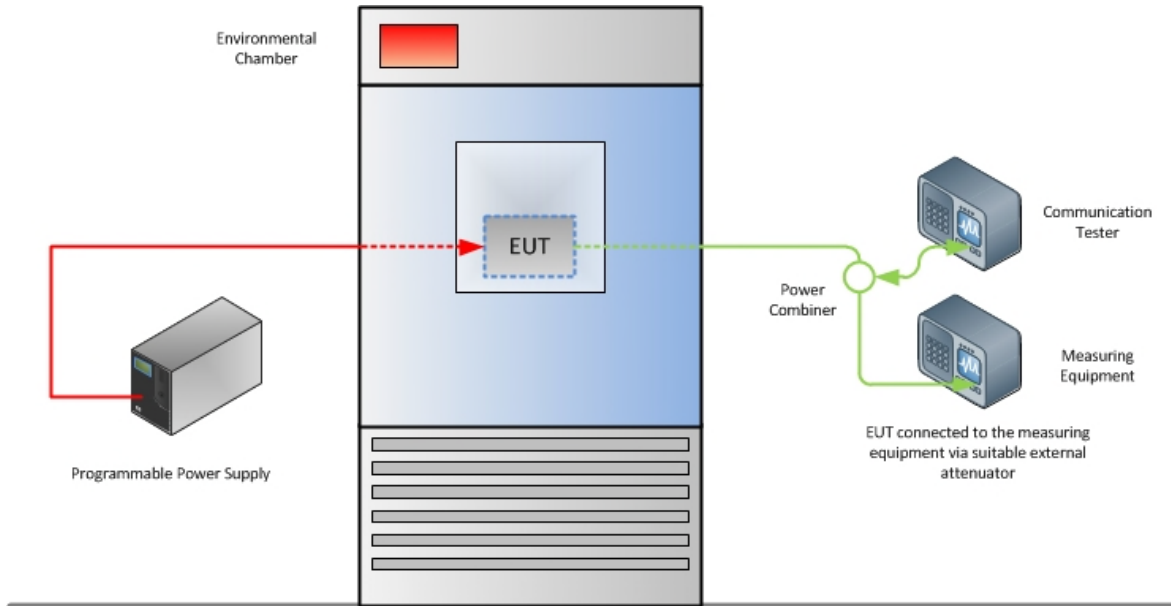
Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



Substitution Test Method (Above 1GHz)



Frequency Stability Test Configuration



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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