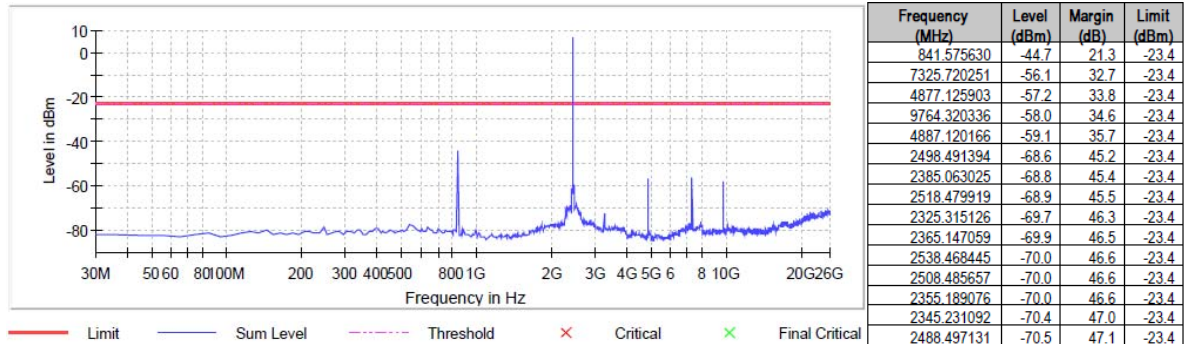
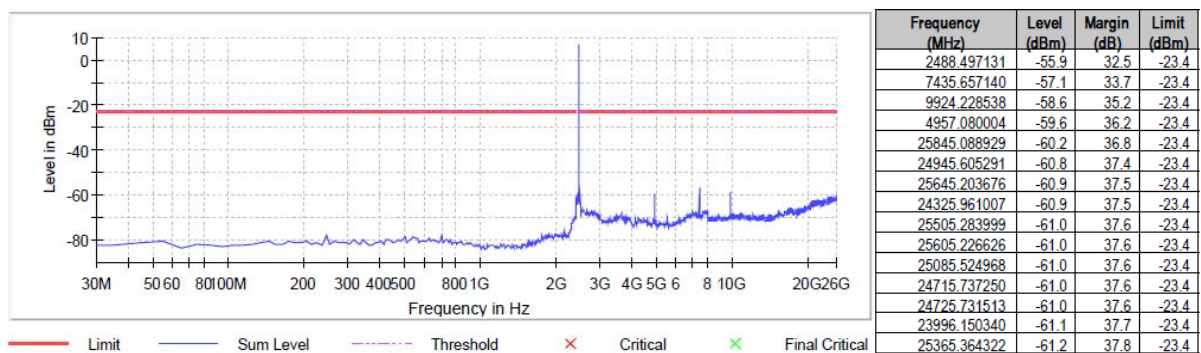


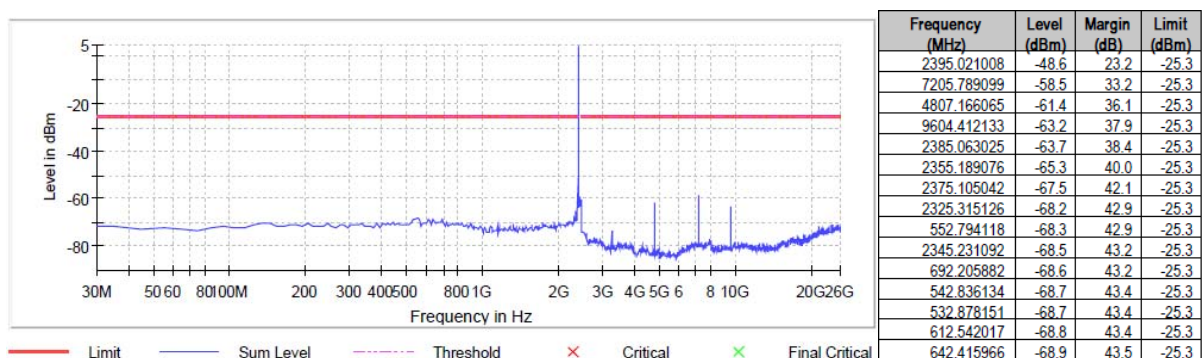
Radio Technology = Bluetooth BDR, Operating Frequency = mid
(S01_166_AB01)



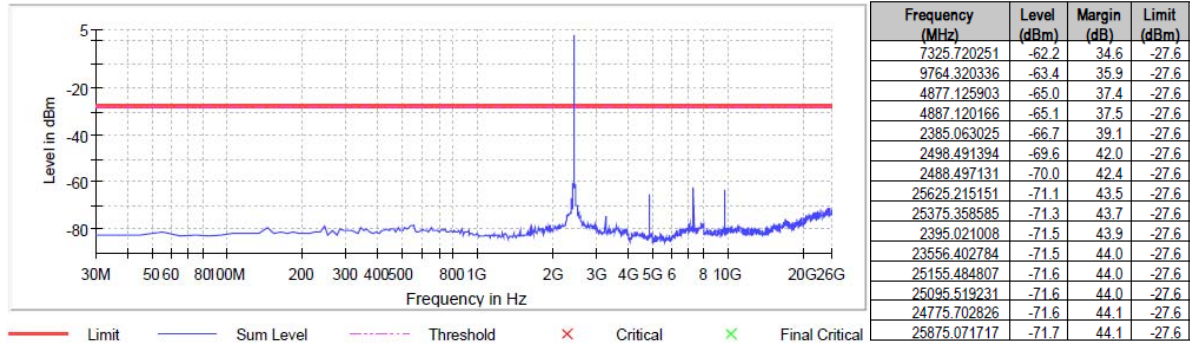
Radio Technology = Bluetooth BDR, Operating Frequency = high
(S01_166_AB01)



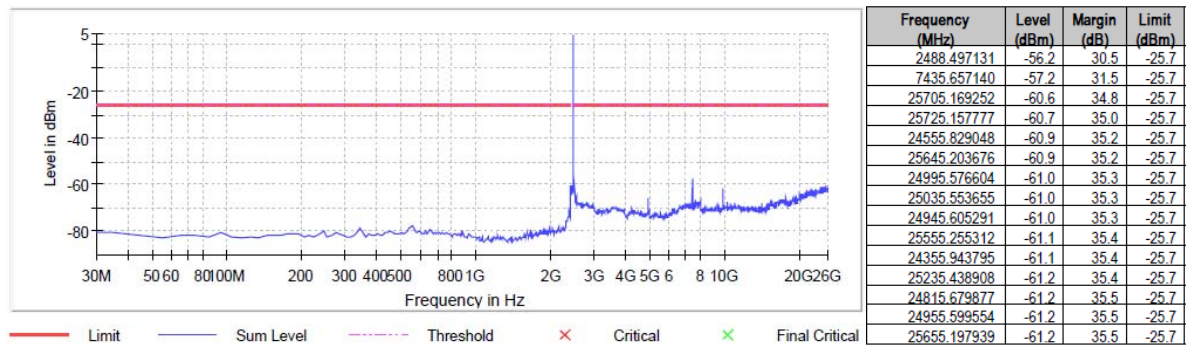
Radio Technology = Bluetooth EDR 2, Operating Frequency = low
(S01_166_AB01)



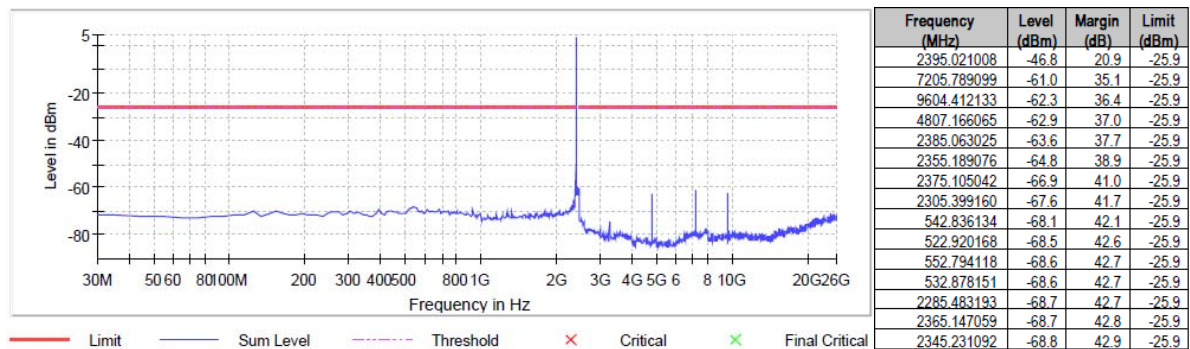
Radio Technology = Bluetooth EDR 2, Operating Frequency = mid
(S01_166_AB01)



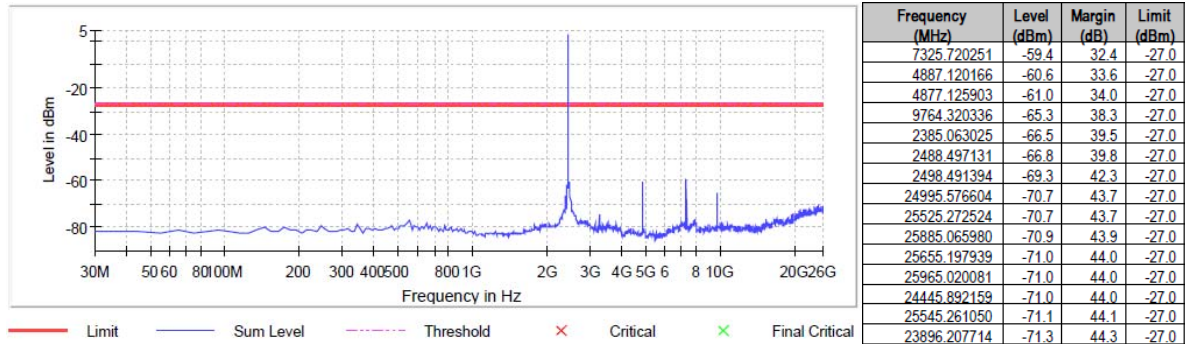
Radio Technology = Bluetooth EDR 2, Operating Frequency = high
(S01_166_AB01)



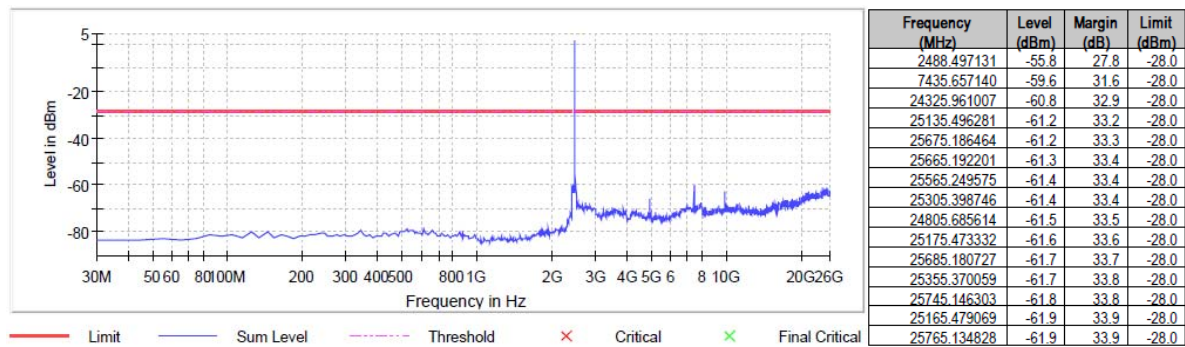
Radio Technology = Bluetooth EDR 3, Operating Frequency = low
(S01_166_AB01)



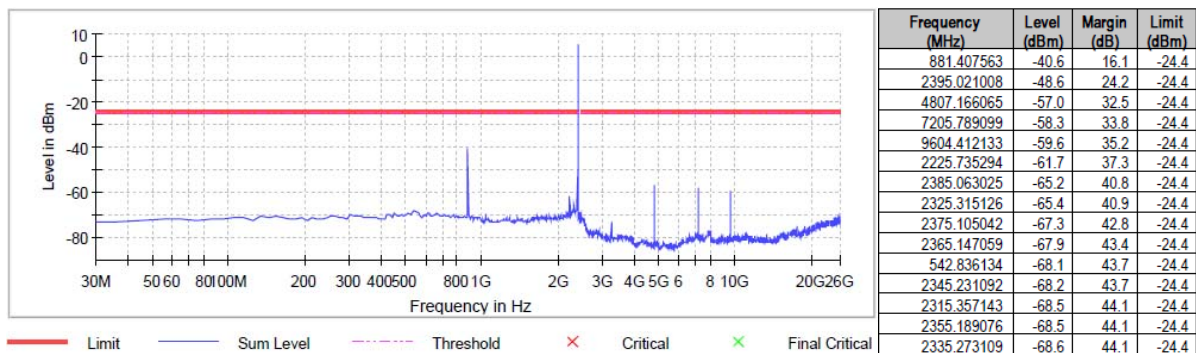
Radio Technology = Bluetooth EDR 3, Operating Frequency = mid
(S01_166_AB01)



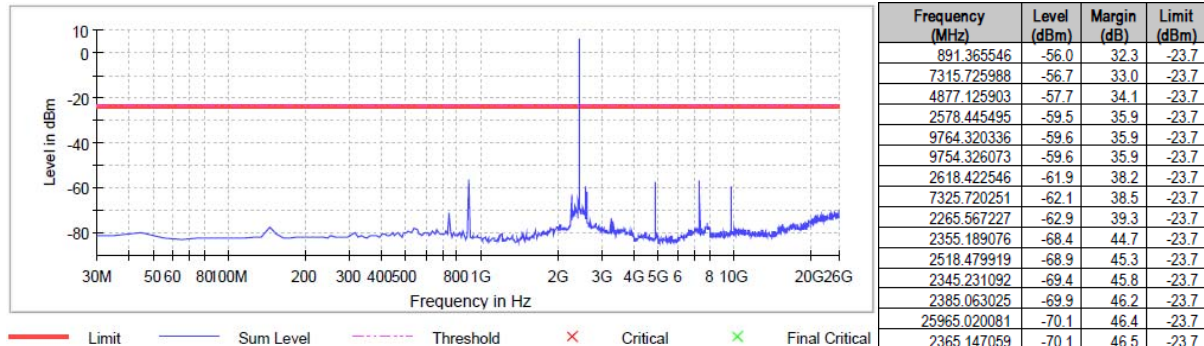
Radio Technology = Bluetooth EDR 3, Operating Frequency = high
(S01_166_AB01)



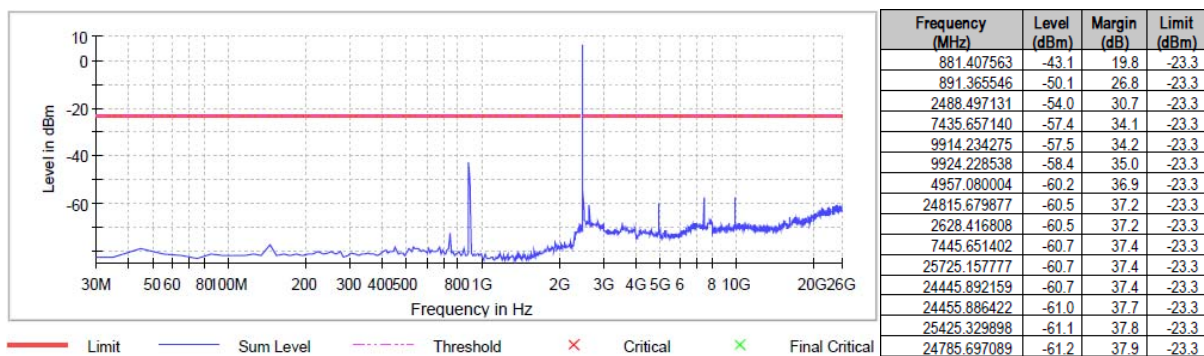
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = low
(S01_166_AB01)



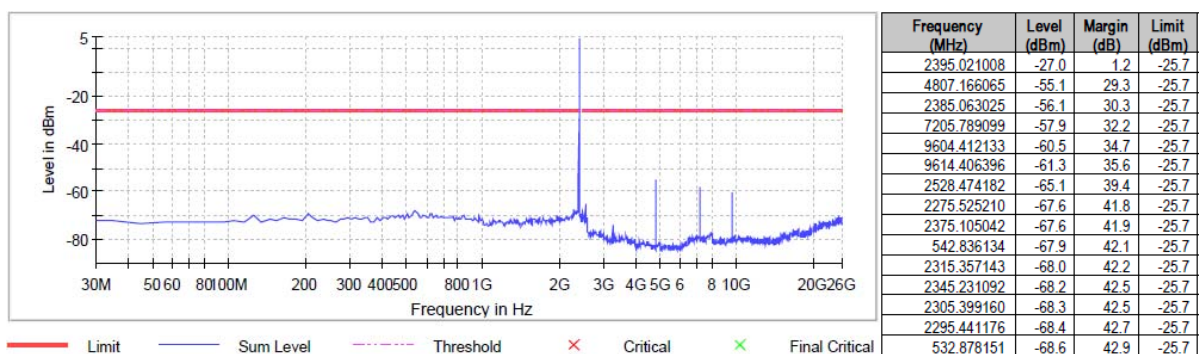
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = mid
(S01_166_AB01)



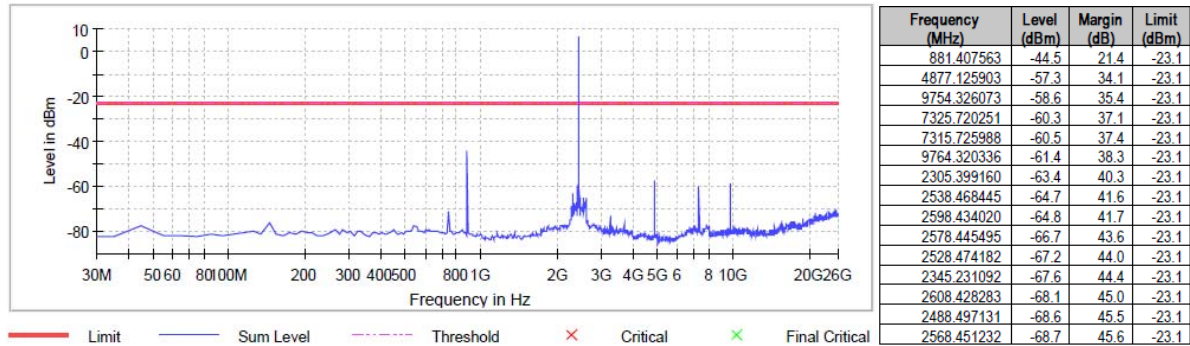
Radio Technology = Bluetooth LE 1 Mbps, Operating Frequency = high
(S01_166_AB01)



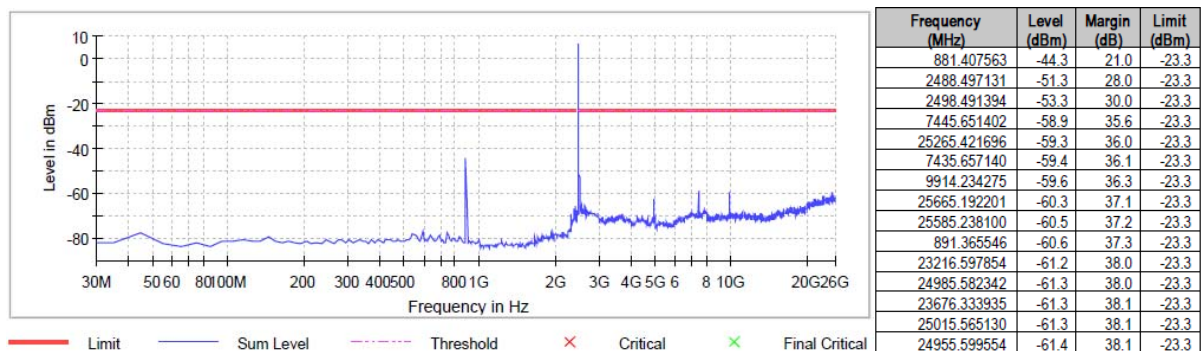
Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = low
(S01_166_AB01)



Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = mid
(S01_166_AB01)



Radio Technology = Bluetooth LE 2 Mbps, Operating Frequency = high
(S01_166_AB01)



5.5.5 TEST EQUIPMENT USED

- R&S TS8997

5.6 TRANSMITTER SPURIOUS RADIATED EMISSIONS

Standard **FCC Part 15 Subpart C**

The test was performed according to:
ANSI C63.10

5.6.1 TEST DESCRIPTION

Radiated Measurement with integral antenna or 50 Ohm termination at antenna port

The test set-up was made in accordance to the general provisions of ANSI C63.10 in a typical installation configuration. The measurements were performed according the following sub-chapters of ANSI C63.10:

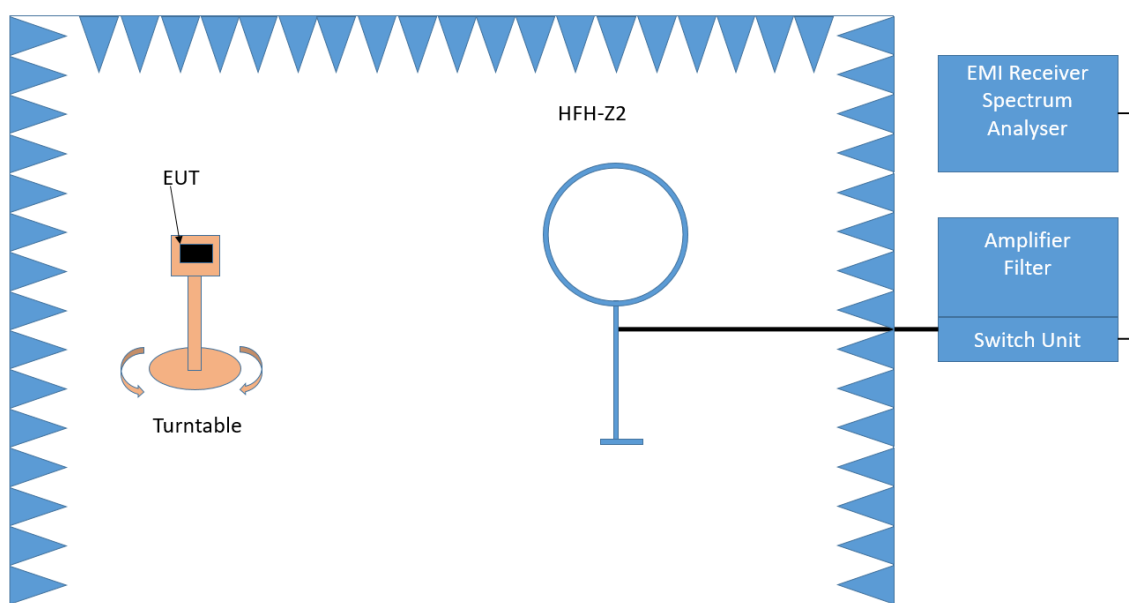
- < 30 MHz: Chapter 6.4
- 30 MHz – 1 GHz: Chapter 6.5
- > 1 GHz: Chapter 6.6 (procedure according 6.6.5 used)

The measurement procedure is implemented into the EMI test software EMC32 from R&S. Exploratory tests are performed at 3 orthogonal axes to determine the worst-case orientation of a body-worn or handheld EUT. The final test on all kind of EUTs is also performed at 3 axes. A pre-check is performed while the EUT is powered.

Below 1 GHz:

The Equipment Under Test (EUT) was set up on a non-conductive table in the semi-anechoic chamber. The influence of the EUT support table that is used between 30–1000 MHz was evaluated.

1. Measurement up to 30 MHz



Test Setup; Spurious Emission Radiated (SAC), 9 kHz – 30 MHz

The Loop antenna HFH2-Z2 is used.

Step 1: pre measurement

- Anechoic chamber
- Antenna distance: 3 m
- Antenna height: 1 m
- Detector: Peak-Maxhold
- Frequency range: 0.009 - 0.15 MHz and 0.15 - 30 MHz
- Frequency steps: 0.05 kHz and 2.25 kHz
- IF-Bandwidth: 0.2 kHz and 9 kHz
- Measuring time / Frequency step: 100 ms (FFT-based)

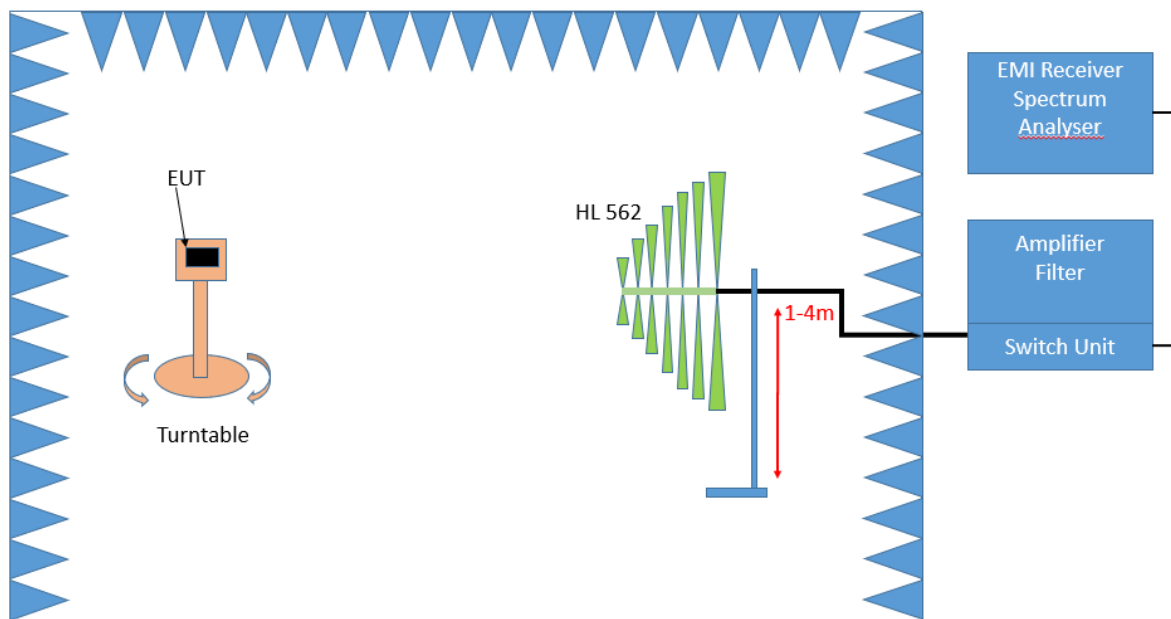
Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: final measurement

For the relevant emissions determined in step 1, an additional measurement with the following settings will be performed. Intention of this step is to find the maximum emission level.

- Detector: Quasi-Peak (9 kHz - 150 kHz, Peak / Average 150 kHz- 30 MHz)
- Frequency range: 0.009 - 30 MHz
- Frequency steps: measurement at frequencies detected in step 1
- IF-Bandwidth: 0.2 - 10 kHz
- Measuring time / Frequency step: 1 s

2. Measurement above 30 MHz and up to 1 GHz



Test Setup; Spurious Emission Radiated (SAC), 30 MHz- 1GHz

Step 1: Preliminary scan

This is a preliminary test to identify the highest amplitudes relative to the limit.

Settings for step 1:

- Antenna distance: 3 m
- Detector: Peak-Maxhold / Quasipeak (FFT-based)
- Frequency range: 30 - 1000 MHz
- Frequency steps: 30 kHz
- IF-Bandwidth: 120 kHz
- Measuring time / Frequency step: 100 ms

- Turntable angle range: -180° to 90°
- Turntable step size: 90°
- Height variation range: 1 – 4 m
- Height variation step size: 1.5 m
- Polarisation: Horizontal + Vertical

Intention of this step is, to determine the radiated EMI-profile of the EUT. Afterwards the relevant emissions for the final measurement are identified.

Step 2: Adjustment measurement

In this step the accuracy of the turntable azimuth and antenna height will be improved. This is necessary to find out the maximum value of every frequency.

For each frequency, which was determined the turntable azimuth and antenna height will be adjusted. The turntable azimuth will slowly vary by $\pm 45^{\circ}$ around this value. During this action, the value of emission is continuously measured. The turntable azimuth at the highest emission will be recorded and adjusted. In this position, the antenna height will also slowly vary by ± 100 cm around the antenna height determined. During this action, the value of emission is also continuously measured. The antenna height of the highest emission will also be recorded and adjusted.

- Detector: Peak – Maxhold
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 100 ms
- Turntable angle range: 360°
- Height variation range: 1 – 4 m
- Antenna Polarisation: max. value determined in step 1

Step 3: Final measurement with QP detector

With the settings determined in step 2, the final measurement will be performed:

EMI receiver settings for step 3:

- Detector: Quasi-Peak (< 1 GHz)
- Measured frequencies: in step 1 determined frequencies
- IF – Bandwidth: 120 kHz
- Measuring time: 1 s

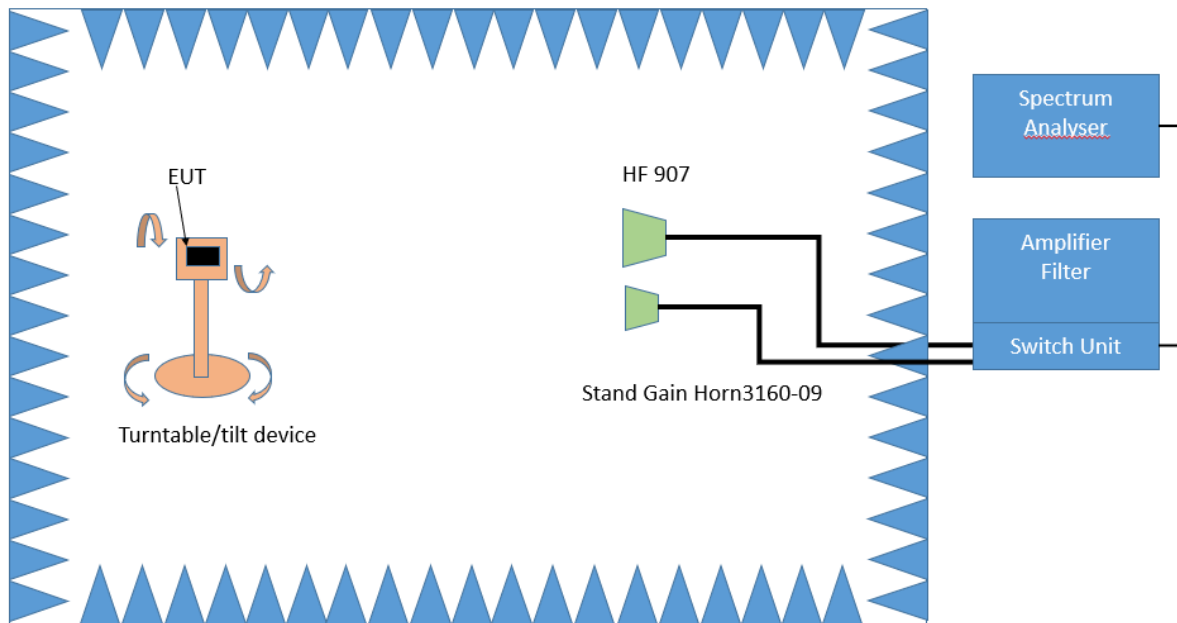
After the measurement a plot will be generated which contains a diagram with the results of the preliminary scan and a chart with the frequencies and values of the results of the final measurement.

Above 1 GHz:

The Equipment Under Test (EUT) was set up on a non-conductive support (tilt device) at 1.5 m height in the fully-anechoic chamber.

All steps were performed with one height (1.5 m) of the receiving antenna only.

3. Measurement above 1 GHz



Test Setup; Spurious Emission Radiated (FAC), 1 GHz-26.5 GHz

Step 1:

The EUT is turned during the preliminary measurement across the elevation axis, with a step size of 90 °.

The turn table step size (azimuth angle) for the preliminary measurement is 45 °.

Spectrum analyser settings:

- Detector: Peak, Average
- RBW = 1 MHz
- VBW = 3 MHz

Step 2:

The turn table azimuth will slowly vary by $\pm 22.5^\circ$.

The elevation angle will slowly vary by $\pm 45^\circ$

Spectrum analyser settings:

- Detector: Peak

Step 3:

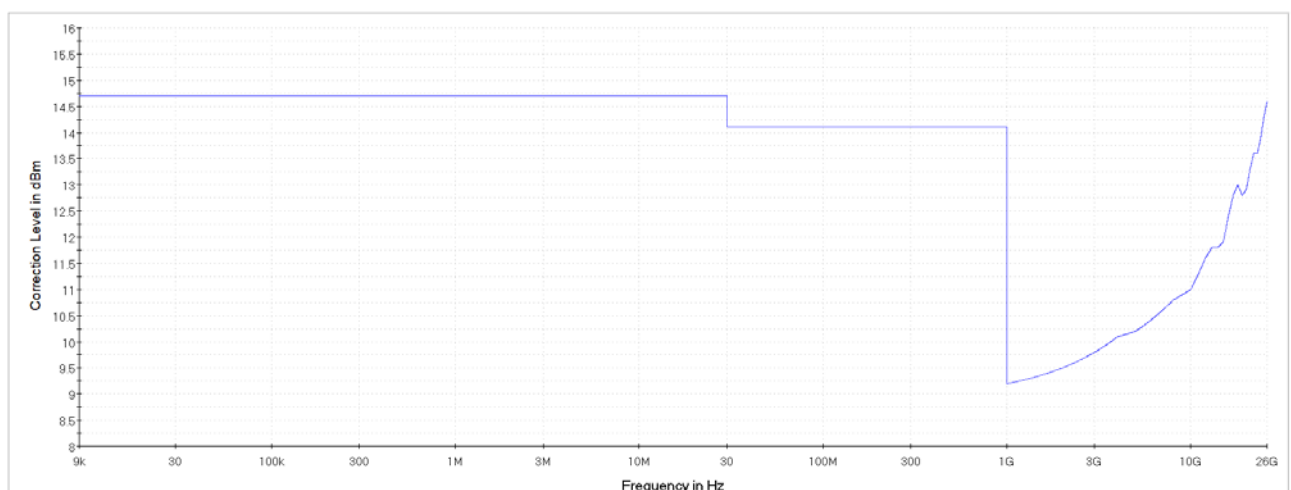
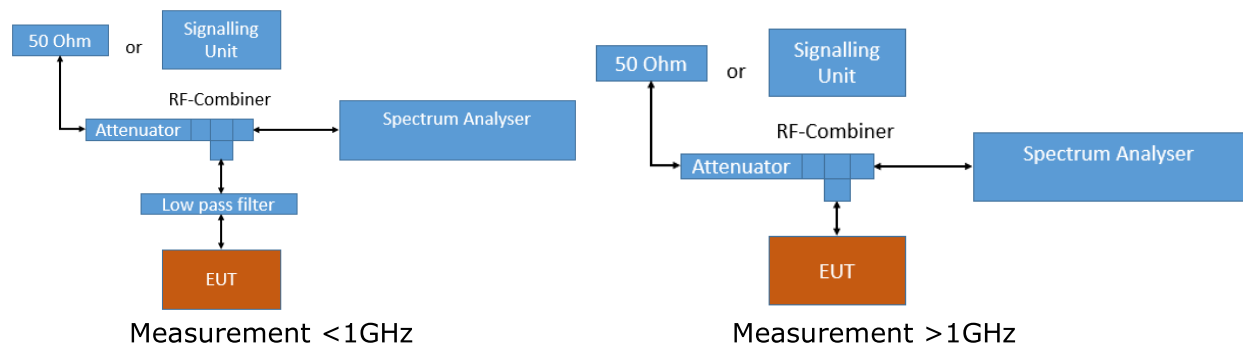
Spectrum analyser settings for step 3:

- Detector: Peak / CISPR Average
- Measured frequencies: in step 1 determined frequencies
- RBW = 1 MHz
- VBW = 3 MHz
- Measuring time: 1 s

Conducted Measurements at antenna ports

The Equipment Under Test (EUT) was set up to perform the spurious emissions measurements.

The EUT was connected to the test system as described in the block diagram below. The complete attenuation of the measurement path is known and considered.



Analyser settings:

- Frequency range: 0.009 – 30 MHz
 - Resolution Bandwidth (RBW): 10 kHz
 - Video Bandwidth (VBW): 30 kHz
 - Trace: Maxhold
 - Sweeps: till stable
 - Sweep Time: coupled
 - Detector: Peak
-
- Frequency range: 30 – 1000 MHz
 - Resolution Bandwidth (RBW): 100 kHz
 - Video Bandwidth (VBW): 300 kHz
 - Trace: Maxhold
 - Sweeps: till stable
 - Sweep Time: coupled
 - Detector: Peak

- Frequency range: 1000 – 26000 MHz
- Resolution Bandwidth (RBW): 1000 kHz
- Video Bandwidth (VBW): 3000 kHz
- Trace: Maxhold, Average Power
- Sweeps: 500
- Sweep Time: coupled
- Detector: Peak, RMS

For the conducted emissions in restricted bands the Value is measured in dBm and then converted to dB μ V/m as given in KDB 558074:

1. Measure the conducted output power in dBm.
2. Add the maximum antenna gain in dBi. (Included in measurement result by offset)
3. Add the appropriate ground reflection factor (included in measurement result by transducer factor)
 - 6 dB for frequencies ≤ 30 MHz;
 - 4.7 dB for frequencies between 30 MHz and 1000 MHz, inclusive; and
 - 0 dB for frequencies > 1000 MHz).
4. Convert the resultant EIRP level to an equivalent electric field strength level using the following relationship:
$$E = \text{EIRP} - 20 \log D + 104.8$$
Where E is the electric field strength in dB μ V/m,
EIRP is the equivalent isotropically radiated power in dBm
D is the specified measurement distance in m

Value [dB μ V/m] = Measured value [dBm] (including gain and ground reflection factor) – 20 log D + 104.8

5.6.2 TEST REQUIREMENTS / LIMITS

FCC Part 15, Subpart C, §15.247 (d)

... In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

FCC Part 15, Subpart C, §15.209, Radiated Emission Limits

Frequency in MHz	Limit (μV/m)	Measurement distance (m)	Limits (dBμV/m)
0.009 – 0.49	2400/F(kHz)@300m	3	(48.5 – 13.8)@300m
0.49 – 1.705	24000/F(kHz)@30m	3	(33.8 – 23.0)@30m
1.705 – 30	30@30m	3	29.5@30m

The measured values are corrected with an inverse linear distance extrapolation factor (40 dB/decade) according FCC 15.31 (2).

Frequency in MHz	Limit (μV/m)	Measurement distance (m)	Limits (dBμV/m)
30 – 88	100@3m	3	40.0@3m
88 – 216	150@3m	3	43.5@3m
216 – 960	200@3m	3	46.0@3m
960 – 26000	500@3m	3	54.0@3m
26000 – 40000	500@3m	1	54.0@3m

The measured values above 26 GHz are corrected with an inverse linear distance extrapolation factor (20 dB/decade).

§15.35(b) ..., there is also a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit....

Used conversion factor: $\text{Limit (dB}\mu\text{V/m)} = 20 \log (\text{Limit } (\mu\text{V/m})/1\mu\text{V/m})$

5.6.3 TEST PROTOCOL

Ambient temperature: 24-30 °C
 Air Pressure: 990-1020 hPa
 Humidity: 30-40 %
 BT GFSK
 Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Radiated Integral Antenna	2402	4804.0	55.3	PEAK	1000	74.0	18.7	RB
Radiated Integral Antenna	2402	4804.0	49.1	AV	1000	54.0	4.9	RB
Radiated Integral Antenna	2441	4882.4	58.1	PEAK	1000	74.0	15.9	RB
Radiated Integral Antenna	2441	4882.2	51.8	AV	1000	54.0	2.2	RB
Radiated Integral Antenna	2441	7322.3	60.1	PEAK	1000	74.0	13.9	RB
Radiated Integral Antenna	2441	7322.3	50.2	AV	1000	54.0	3.8	RB
Radiated Integral Antenna	2480	4960.0	56.2	PEAK	1000	74.0	17.8	RB
Radiated Integral Antenna	2480	4960.0	52.4	AV	1000	54.0	1.6	RB
Radiated 50 Ohm Termination	2480	4960.9	52.2	PEAK	1000	74.0	21.8	RB
Radiated 50 Ohm Termination	2480	4960.9	45.7	AV	1000	54.0	8.3	RB
Radiated 50 Ohm Termination	2480	7439.5	50.1	PEAK	1000	74.0	23.9	RB
Radiated 50 Ohm Termination	2480	7439.5	41.0	AV	1000	54.0	13.0	RB
Conducted	2402	4804.3	46.7	PEAK	1000	74.0	27.3	RB
Conducted	2402	4804.0	41.5	AV	1000	54.0	12.5	RB
Conducted	2441	4881.8	46.8	PEAK	1000	74.0	27.2	RB
Conducted	2441	4881.0	39.9	AV	1000	54.0	14.1	RB
Conducted	2480	4960.1	45.9	PEAK	1000	74.0	28.1	RB
Conducted	2480	4960.0	38.0	AV	1000	54.0	16.0	RB
Conducted	2480	7439.8	49.5	PEAK	1000	74.0	24.5	RB
Conducted	2480	7440.1	41.0	AV	1000	54.0	13.0	RB

BT n/4 DQPSK
 Applied duty cycle correction (AV): 0.2 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2402	4804.3	45.4	PEAK	1000	74.0	28.6	RB
Conducted	2402	4804.0	37.5	AV	1000	54.0	16.5	RB
Conducted	2441	4882.3	44.4	PEAK	1000	74.0	29.6	RB
Conducted	2441	4882.0	36.3	AV	1000	54.0	17.7	RB
Conducted	2441	7321.8	48.4	PEAK	1000	74.0	25.6	RB
Conducted	2441	7323.1	40.4	AV	1000	54.0	13.6	RB
Conducted	2480	4959.8	44.8	PEAK	1000	74.0	29.2	RB
Conducted	2480	4960.3	36.5	AV	1000	54.0	17.5	RB
Conducted	2480	7439.3	48.6	PEAK	1000	74.0	25.4	RB
Conducted	2480	7440.2	39.8	AV	1000	54.0	14.2	RB

BT 8-DPSK

Applied duty cycle correction (AV): 0.3 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2402	4803.6	45.2	PEAK	1000	74.0	28.8	RB
Conducted	2402	4803.7	37.5	AV	1000	54.0	16.5	RB
Conducted	2441	4882.1	45.3	PEAK	1000	74.0	28.7	RB
Conducted	2441	4882.0	36.7	AV	1000	54.0	17.3	RB
Conducted	2441	7322.8	48.2	PEAK	1000	74.0	25.8	RB
Conducted	2441	7323.1	40.9	AV	1000	54.0	13.1	RB
Conducted	2480	4958.3	45.1	PEAK	1000	74.0	28.9	RB
Conducted	2480	4960.2	36.5	AV	1000	54.0	17.5	RB
Conducted	2480	7349.3	50.8	PEAK	1000	74.0	23.2	RB
Conducted	2480	7440.3	39.8	AV	1000	54.0	14.2	RB

BT LE 1 Mbit/s

Applied duty cycle correction (AV): 1.4 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2402	4804.8	47.8	PEAK	1000	74.0	26.2	RB
Conducted	2402	4803.8	41.6	AV	1000	54.0	12.4	RB
Conducted	2440	4880.3	46.3	PEAK	1000	74.0	27.7	RB
Conducted	2440	4880.1	40.2	AV	1000	54.0	13.8	RB
Conducted	2440	7319.6	49.3	PEAK	1000	74.0	24.7	RB
Conducted	2440	7320.3	42.2	AV	1000	54.0	11.8	RB
Conducted	2480	4959.8	46.3	PEAK	1000	74.0	27.7	RB
Conducted	2480	4960.3	38.3	AV	1000	54.0	15.7	RB
Conducted	2480	7440.3	49.1	PEAK	1000	74.0	24.9	RB
Conducted	2480	7440.1	41.2	AV	1000	54.0	12.8	RB

BT LE 2 Mbit/s

Applied duty cycle correction (AV): 7.4 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2402	4803.3	47.1	PEAK	1000	74.0	26.9	RB
Conducted	2402	4804.8	44.1	AV	1000	54.0	9.9	RB
Conducted	2440	4878.8	46.4	PEAK	1000	74.0	27.6	RB
Conducted	2440	4879.1	43.5	AV	1000	54.0	10.5	RB
Conducted	2440	7318.6	48.4	PEAK	1000	74.0	25.6	RB
Conducted	2440	7318.5	46.6	AV	1000	54.0	7.4	RB
Conducted	2480	4960.6	45.5	PEAK	1000	74.0	28.5	RB
Conducted	2480	4960.9	43.1	AV	1000	54.0	10.9	RB
Conducted	2480	7438.3	48.5	PEAK	1000	74.0	25.5	RB
Conducted	2480	7438.5	45.9	AV	1000	54.0	8.1	RB

WLAN b-Mode; 20 MHz; 1 Mbit/s
Applied duty cycle correction (AV): 0 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Radiated Integral Antenna	2412	12061.6	55.3	PEAK	1000	74.0	18.7	RB
Radiated Integral Antenna	2412	12061.6	47.9	PEAK	1000	74.0	26.1	RB
Radiated Integral Antenna	2412	19295.7	54.2	PEAK	1000	74.0	19.8	RB
Radiated Integral Antenna	2412	19295.7	47.2	AV	1000	54.0	6.8	RB
Conducted	2412	2711.4	56.4	PEAK	1000	74.0	17.6	RB
Conducted	2412	2712.1	47.5	AV	1000	54.0	6.5	RB
Conducted	2412	3618.9	58.8	PEAK	1000	74.0	15.2	RB
Conducted	2412	3617.7	53.4	AV	1000	54.0	0.6	RB
Radiated Integral Antenna	2437	7312.8	54.1	PEAK	1000	74.0	19.9	RB
Radiated Integral Antenna	2437	7312.8	48.0	AV	1000	54.0	6.0	RB
Radiated Integral Antenna	2437	12185.4	56.8	PEAK	1000	74.0	17.2	RB
Radiated Integral Antenna	2437	12185.4	49.6	AV	1000	54.0	4.4	RB
Conducted	2437	1608.1	56.2	PEAK	1000	74.0	17.8	RB
Conducted	2437	1608.0	53.5	AV	1000	54.0	0.5	RB
Conducted	2437	2712.3	57.0	PEAK	1000	74.0	17.0	RB
Conducted	2437	2712.3	46.8	AV	1000	54.0	7.2	RB
Conducted	2437	3618.1	58.9	PEAK	1000	74.0	15.1	RB
Conducted	2437	3618.1	53.4	AV	1000	54.0	0.6	RB
Radiated Integral Antenna	2462	7384.5	54.9	PEAK	1000	74.0	19.1	RB
Radiated Integral Antenna	2462	7384.5	48.4	AV	1000	54.0	5.6	RB
Radiated Integral Antenna	2462	12309.3	57.9	PEAK	1000	74.0	16.1	RB
Radiated Integral Antenna	2462	12309.3	51.3	AV	1000	54.0	2.7	RB
Radiated 50 Ohm Termination	2462	7385.0	55.1	PEAK	1000	74.0	18.9	RB
Radiated 50 Ohm Termination	2462	7385.0	48.6	AV	1000	54.0	5.4	RB
Radiated 50 Ohm Termination	2462	12310.6	53.8	PEAK	1000	74.0	20.2	RB
Radiated 50 Ohm Termination	2462	12310.6	46.0	AV	1000	54.0	8.0	RB
Conducted	2462	2228.9	56.4	PEAK	1000	74.0	17.6	RB
Conducted	2462	2228.8	44.0	AV	1000	54.0	10.0	RB
Conducted	2462	2729.9	55.8	PEAK	1000	74.0	18.2	RB
Conducted	2462	2729.9	44.7	AV	1000	54.0	9.3	RB
Conducted	2462	3692.9	57.2	PEAK	1000	74.0	16.8	RB
Conducted	2462	3693.1	51.5	AV	1000	54.0	2.5	RB

WLAN g-Mode; 20 MHz; 6 Mbit/s
Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2412	1608.1	52.0	PEAK	1000	74.0	22.0	RB
Conducted	2412	1607.8	44.0	AV	1000	54.0	10.0	RB
Conducted	2412	2719.9	56.1	PEAK	1000	74.0	17.9	RB
Conducted	2412	2720.6	44.0	AV	1000	54.0	10.0	RB
Conducted	2412	3620.4	57.5	PEAK	1000	74.0	16.5	RB
Conducted	2412	3620.1	48.0	AV	1000	54.0	6.0	RB
Conducted	2437	1625.1	53.8	PEAK	1000	74.0	20.2	RB
Conducted	2437	1624.8	46.4	AV	1000	54.0	7.6	RB
Conducted	2437	2712.4	56.7	PEAK	1000	74.0	17.3	RB
Conducted	2437	2712.1	45.2	AV	1000	54.0	8.8	RB
Conducted	2437	3648.1	59.1	PEAK	1000	74.0	14.9	RB
Conducted	2437	3648.4	49.2	AV	1000	54.0	4.8	RB
Conducted	2462	2234.1	56.7	PEAK	1000	74.0	17.3	RB
Conducted	2462	2234.0	43.1	AV	1000	54.0	10.9	RB
Conducted	2462	2726.6	57.9	PEAK	1000	74.0	16.1	RB
Conducted	2462	2726.1	44.8	AV	1000	54.0	9.2	RB
Conducted	2462	3694.6	55.2	PEAK	1000	74.0	18.8	RB
Conducted	2462	3695.4	46.1	AV	1000	54.0	7.9	RB

WLAN n-Mode; 20 MHz; MCS0
Applied duty cycle correction (AV): 0.1 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2412	1607.9	51.0	PEAK	1000	74.0	23.1	RB
Conducted	2412	1608.0	44.1	AV	1000	54.0	9.9	RB
Conducted	2412	2720.1	55.6	PEAK	1000	74.0	18.4	RB
Conducted	2412	2720.1	43.2	AV	1000	54.0	10.8	RB
Conducted	2412	3614.9	56.4	PEAK	1000	74.0	17.6	RB
Conducted	2412	3615.4	47.0	AV	1000	54.0	7.0	RB
Conducted	2437	2203.1	55.5	PEAK	1000	74.0	18.5	RB
Conducted	2437	2203.3	43.0	AV	1000	54.0	11.0	RB
Conducted	2437	2693.9	57.8	PEAK	1000	74.0	16.2	RB
Conducted	2437	2693.6	44.8	AV	1000	54.0	9.2	RB
Conducted	2437	3659.4	57.4	PEAK	1000	74.0	16.6	RB
Conducted	2437	3659.4	46.7	AV	1000	54.0	7.3	RB
Conducted	2462	2211.4	55.4	PEAK	1000	74.0	18.6	RB
Conducted	2462	2211.5	43.0	AV	1000	54.0	11.0	RB
Conducted	2462	2713.1	55.6	PEAK	1000	74.0	18.4	RB
Conducted	2462	2713.6	44.4	AV	1000	54.0	9.6	RB
Conducted	2462	3685.9	54.7	PEAK	1000	74.0	19.3	RB
Conducted	2462	3685.6	45.8	AV	1000	54.0	8.2	RB

WLAN n-Mode; 40 MHz; MCS0

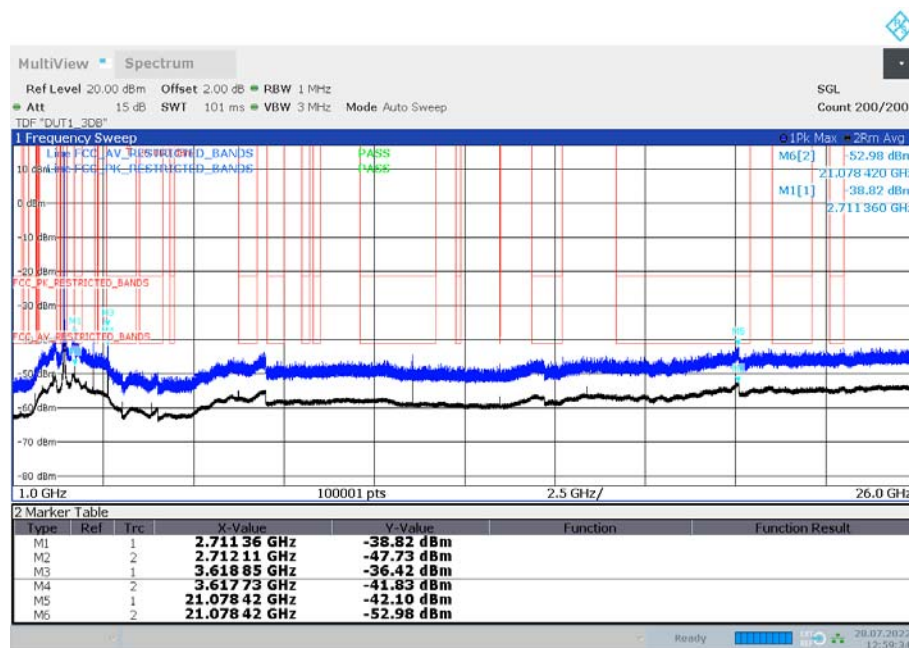
Applied duty cycle correction (AV): 0.2 dB

Measurement Method	Ch. Center Freq. [MHz]	Spurious Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin to Limit [dB]	Limit Type
Conducted	2422	1614.9	51.2	PEAK	1000	74.0	22.9	RB
Conducted	2422	1614.5	41.6	AV	1000	54.0	12.4	RB
Conducted	2422	2710.1	53.8	PEAK	1000	74.0	20.2	RB
Conducted	2422	2708.6	43.1	AV	1000	54.0	10.9	RB
Conducted	2422	3618.1	53.7	PEAK	1000	74.0	20.3	RB
Conducted	2422	3617.1	44.4	AV	1000	54.0	9.6	RB
Conducted	2452	2204.6	54.4	PEAK	1000	74.0	19.6	RB
Conducted	2452	2707.6	43.2	AV	1000	54.0	10.8	RB
Conducted	2452	2707.6	54.5	PEAK	1000	74.0	19.5	RB
Conducted	2452	3269.1	44.0	AV	1000	54.0	10.0	RB
Conducted	2452	3269.4	53.9	PEAK	1000	74.0	20.1	RB
Conducted	2452	3269.4	48.1	AV	1000	54.0	5.9	RB

Remark: Please see next sub-clause for the measurement plot.

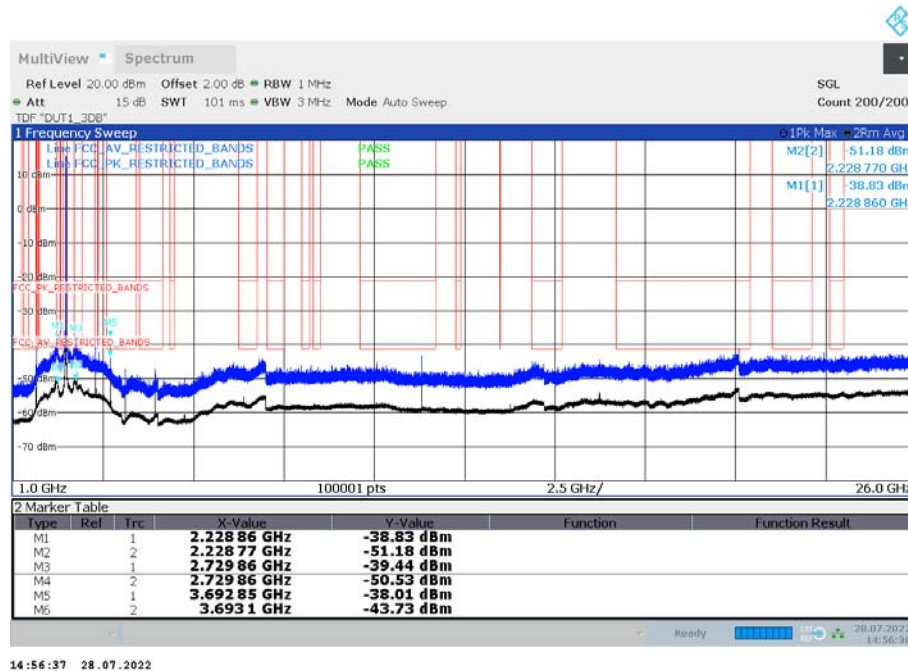
5.6.4 MEASUREMENT PLOT (EXAMPLE PLOT, SHOWING WORST CASE, IF APPLICABLE)

Radio Technology = WLAN b, Operating Frequency = low, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)

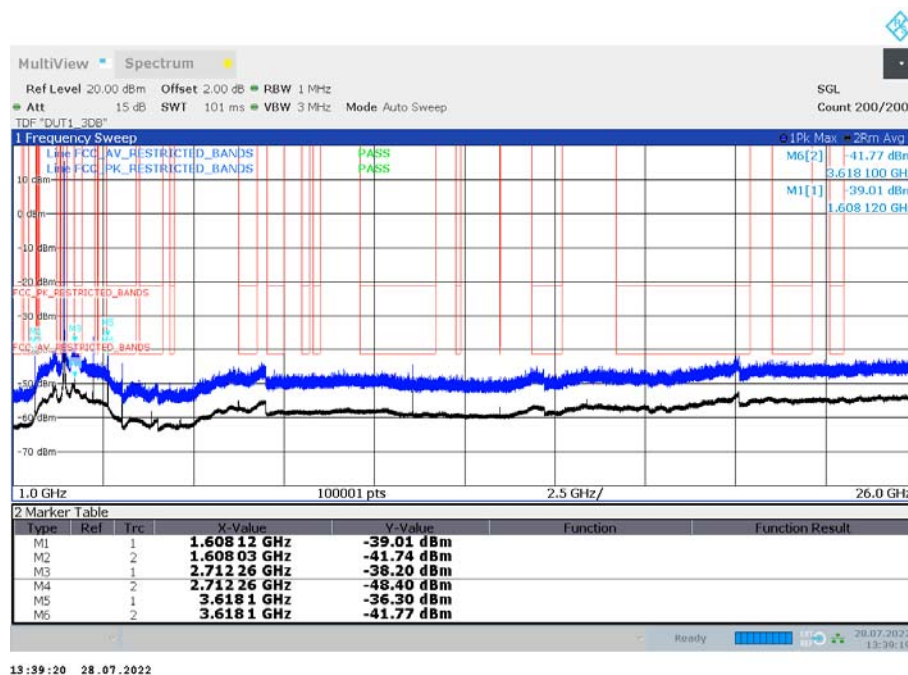


12:59:34 28.07.2022

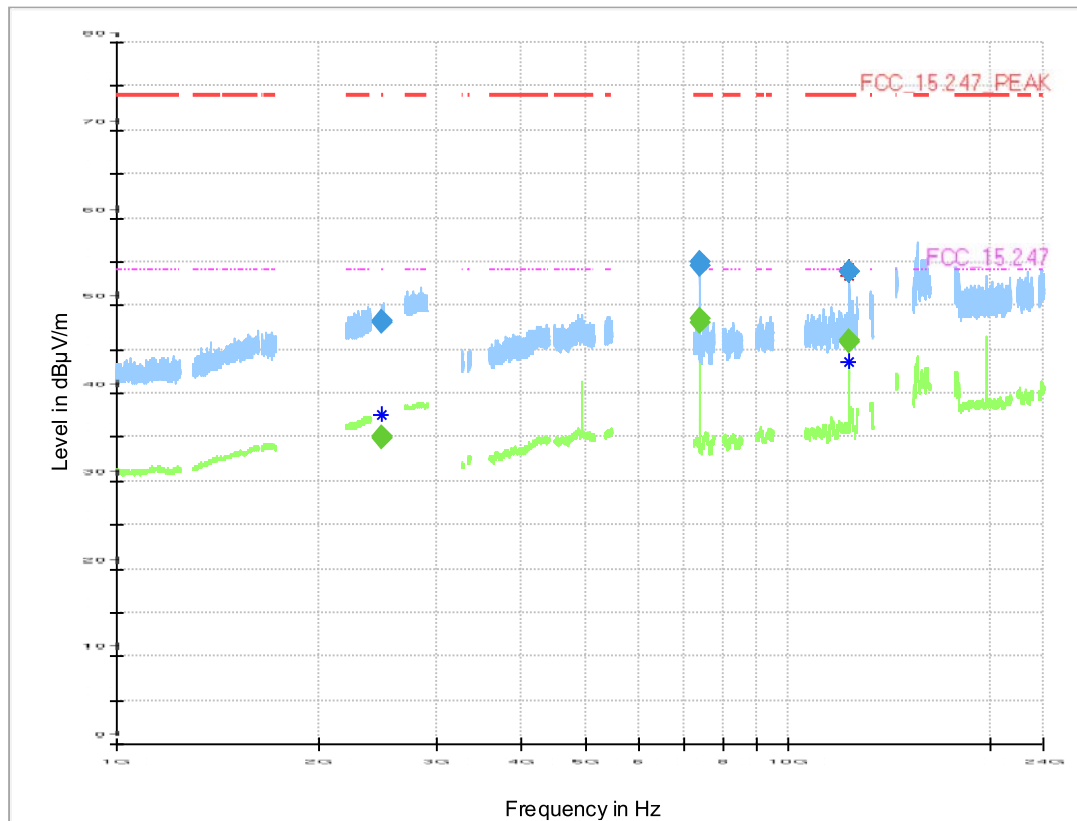
Radio Technology = WLAN b, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 1 GHz - 26 GHz
(S01_166_AB01)



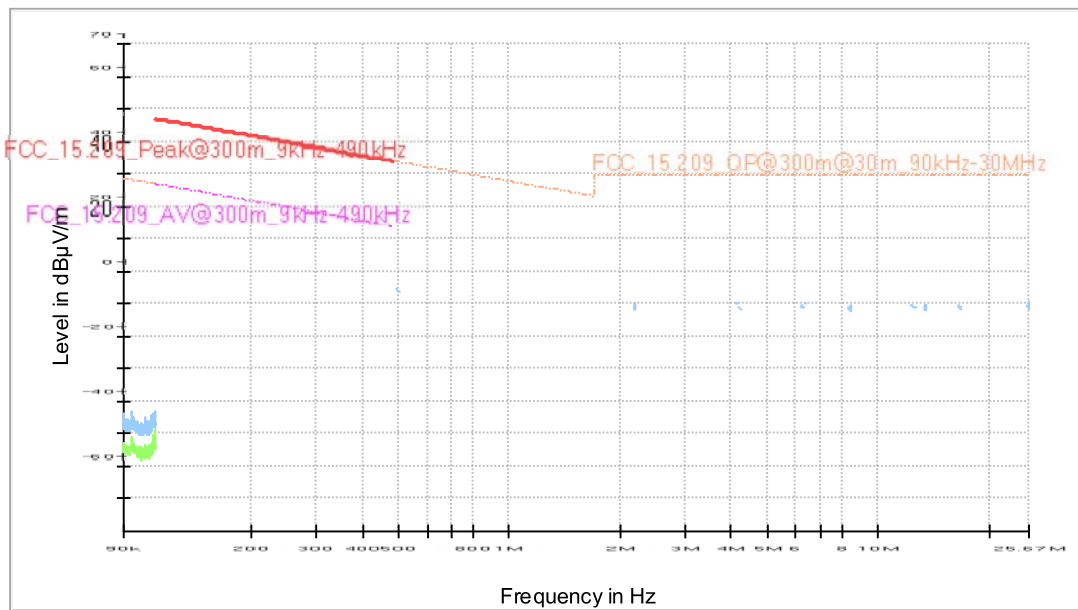
Radio Technology = WLAN b, Operating Frequency = high, Measurement range = 1 GHz - 26 GHz
(S02_166_AB01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
2483.500	48.1	---	74.00	25.93	1000.0	1000.000	150.0	H	64.0	105.0	5.3
2483.500	---	35.0	54.00	18.96	1000.0	1000.000	150.0	H	64.0	105.0	5.3
2483.995	48.2	---	74.00	25.78	1000.0	1000.000	150.0	V	-66.0	91.0	5.3
2483.995	---	35.0	54.00	19.04	1000.0	1000.000	150.0	V	-66.0	91.0	5.3
7384.375	54.5	---	74.00	19.55	1000.0	1000.000	150.0	H	62.0	94.0	-14.2
7384.375	---	48.1	54.00	5.91	1000.0	1000.000	150.0	H	62.0	94.0	-14.2
7385.000	55.1	---	74.00	18.92	1000.0	1000.000	150.0	H	65.0	105.0	-14.2
7385.000	---	48.6	54.00	5.40	1000.0	1000.000	150.0	H	65.0	105.0	-14.2
12310.555	---	45.7	54.00	8.29	1000.0	1000.000	150.0	H	-31.0	75.0	-7.0
12310.555	53.8	---	74.00	20.22	1000.0	1000.000	150.0	H	-31.0	75.0	-7.0
12310.660	---	46.0	54.00	8.04	1000.0	1000.000	150.0	V	-180.0	8.0	-7.0
12310.660	53.7	---	74.00	20.25	1000.0	1000.000	150.0	V	-180.0	8.0	-7.0

Radio Technology = Bluetooth BDR, Operating Frequency = mid, Measurement range = 9 kHz
- 30 MHz
(S02_166_AE01)



Final Result

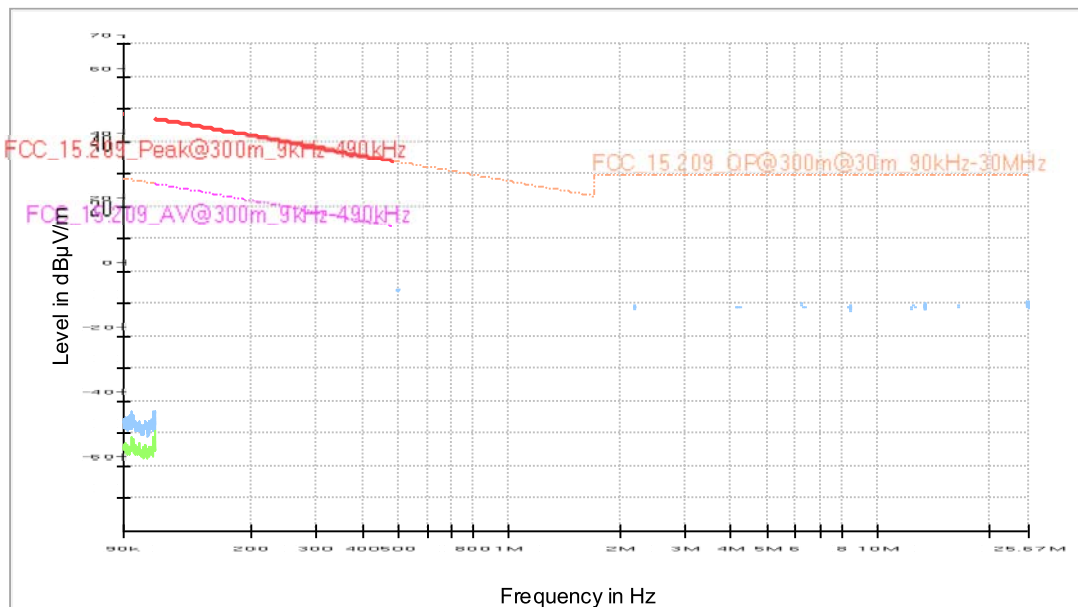
Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = Bluetooth BDR, Operating Frequency = mid, Measurement range = 9 kHz
- 30 MHz
(S01_166_AB01)



16:52:20 29.07.2022

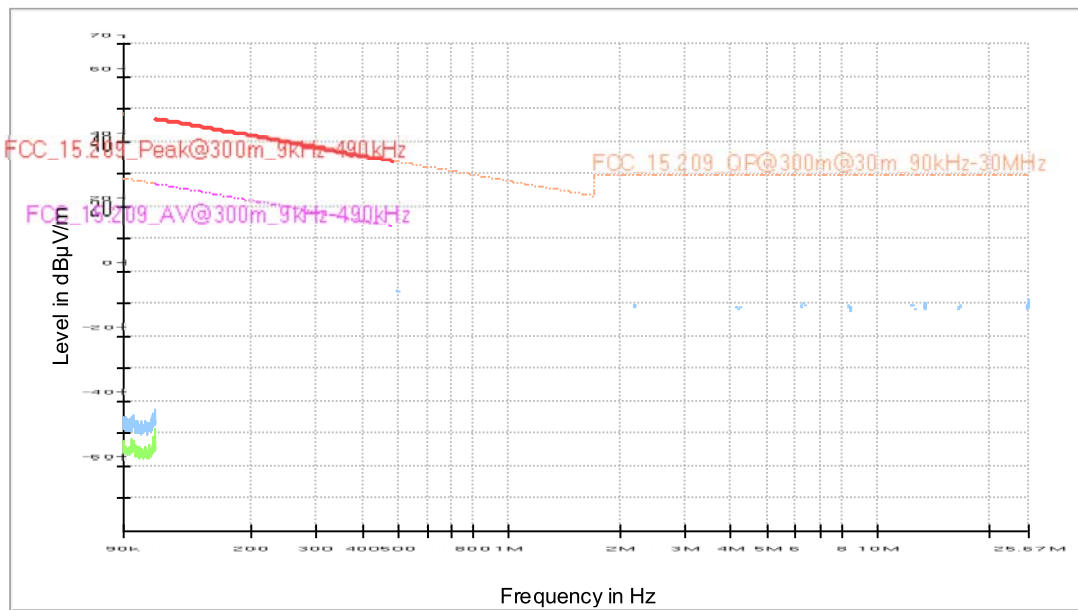
Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 9 kHz
- 30 MHz
(S02_166_AB01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)
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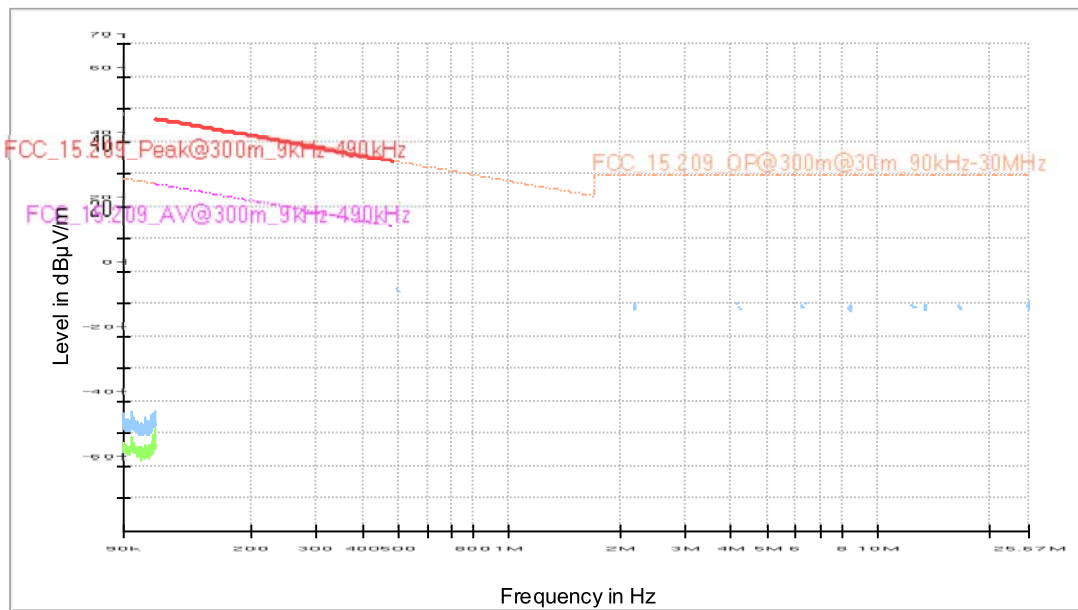
Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 9 kHz - 30 MHz
(S02_166_AB01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)
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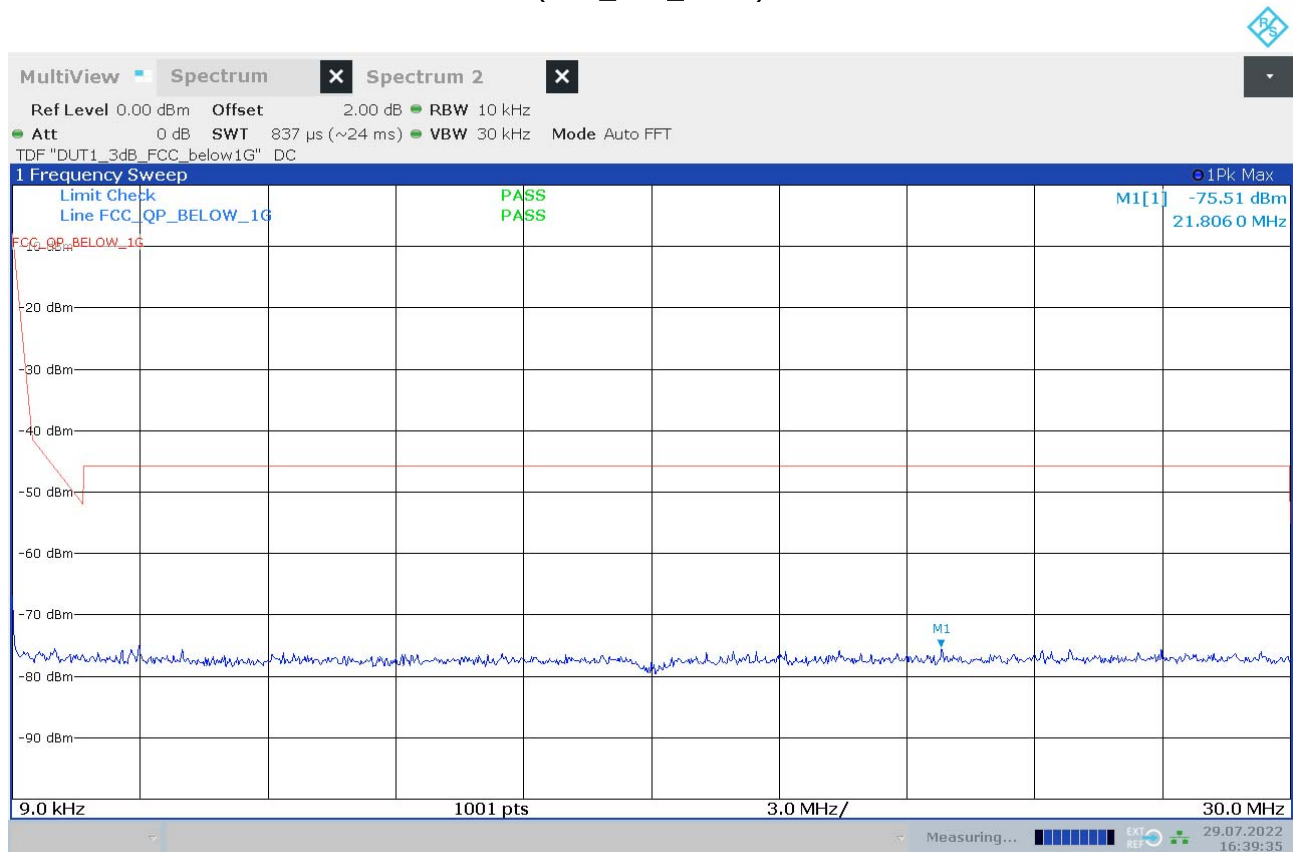
Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 9 kHz - 30 MHz
(S02_166_AE01)



Final Result

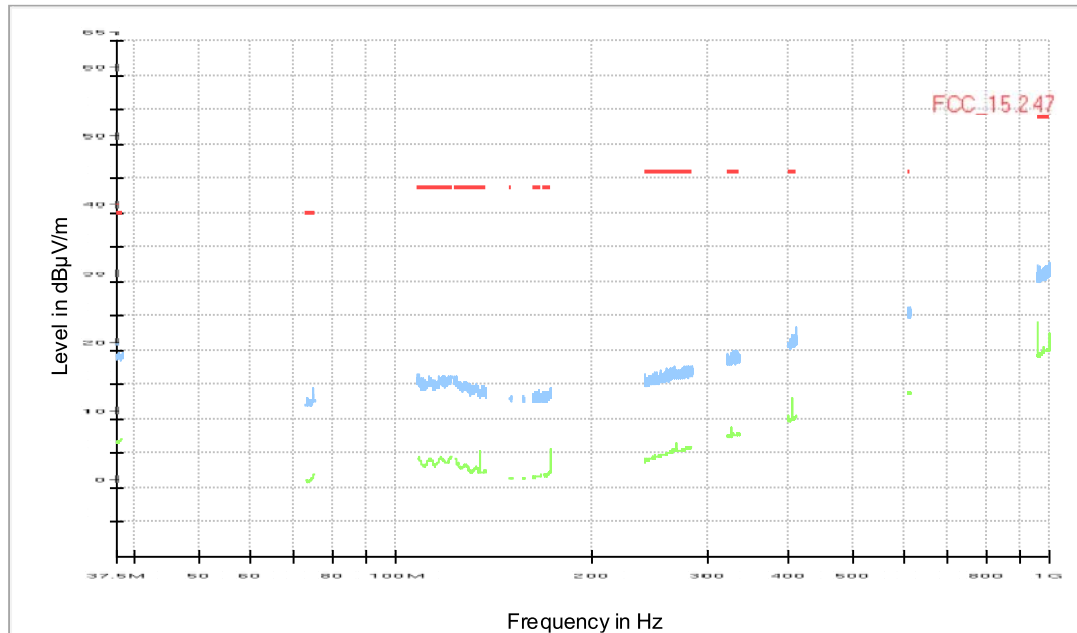
Frequency (MHz)	MaxPeak (dBμV/m)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 9 kHz - 30 MHz
(S01_166_AB01)



16:39:35 29.07.2022

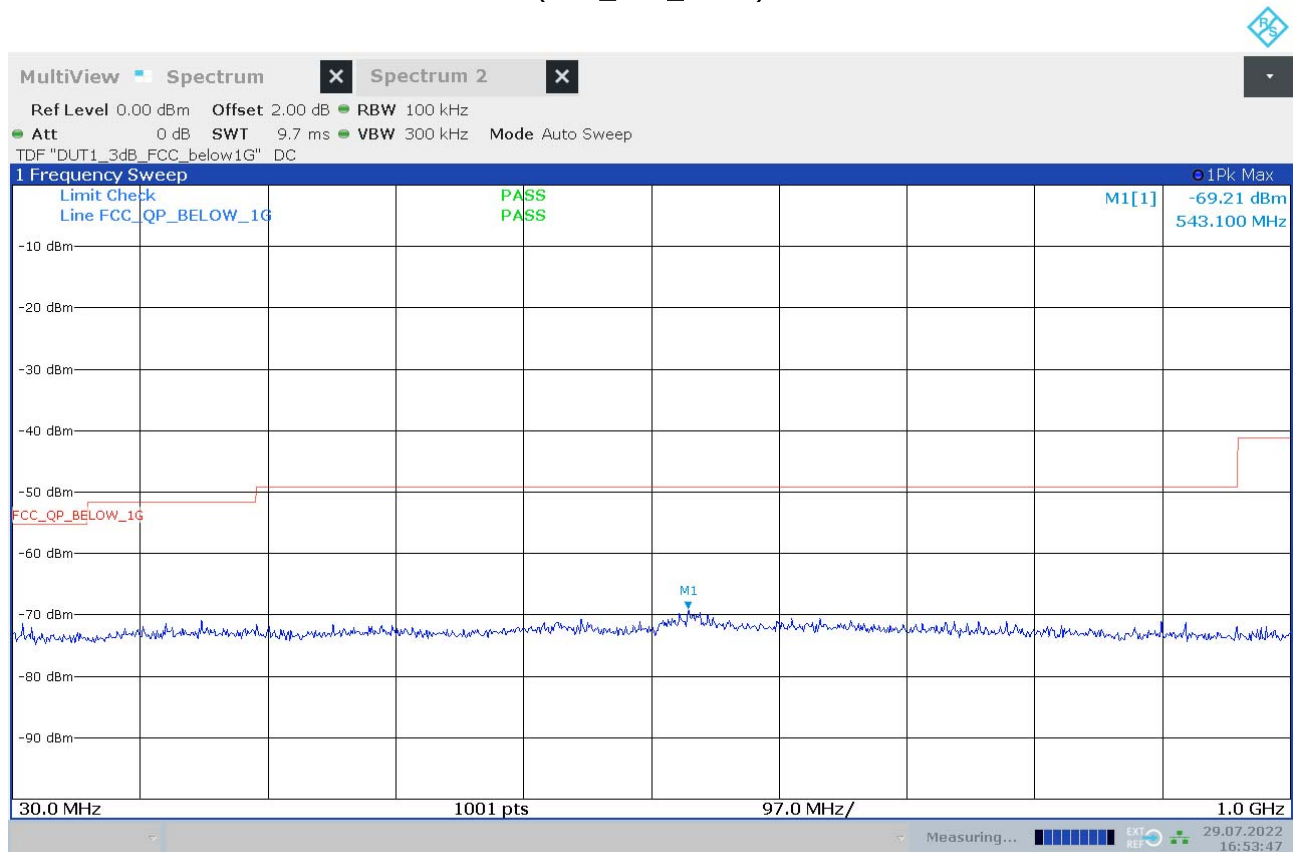
Radio Technology = Bluetooth BDR, Operating Frequency = mid, Measurement range = 30
MHz - 1 GHz
(S02_166_AE01)



Final_Result

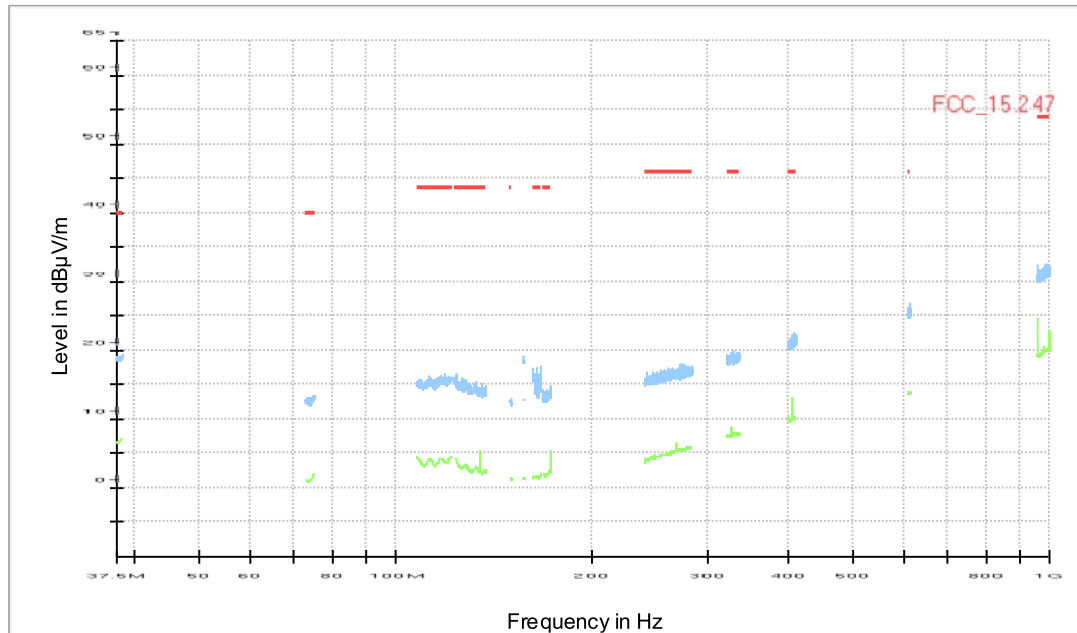
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = Bluetooth BDR, Operating Frequency = mid, Measurement range = 30 MHz - 1 GHz
(S01_166_AB01)



16:53:47 29.07.2022

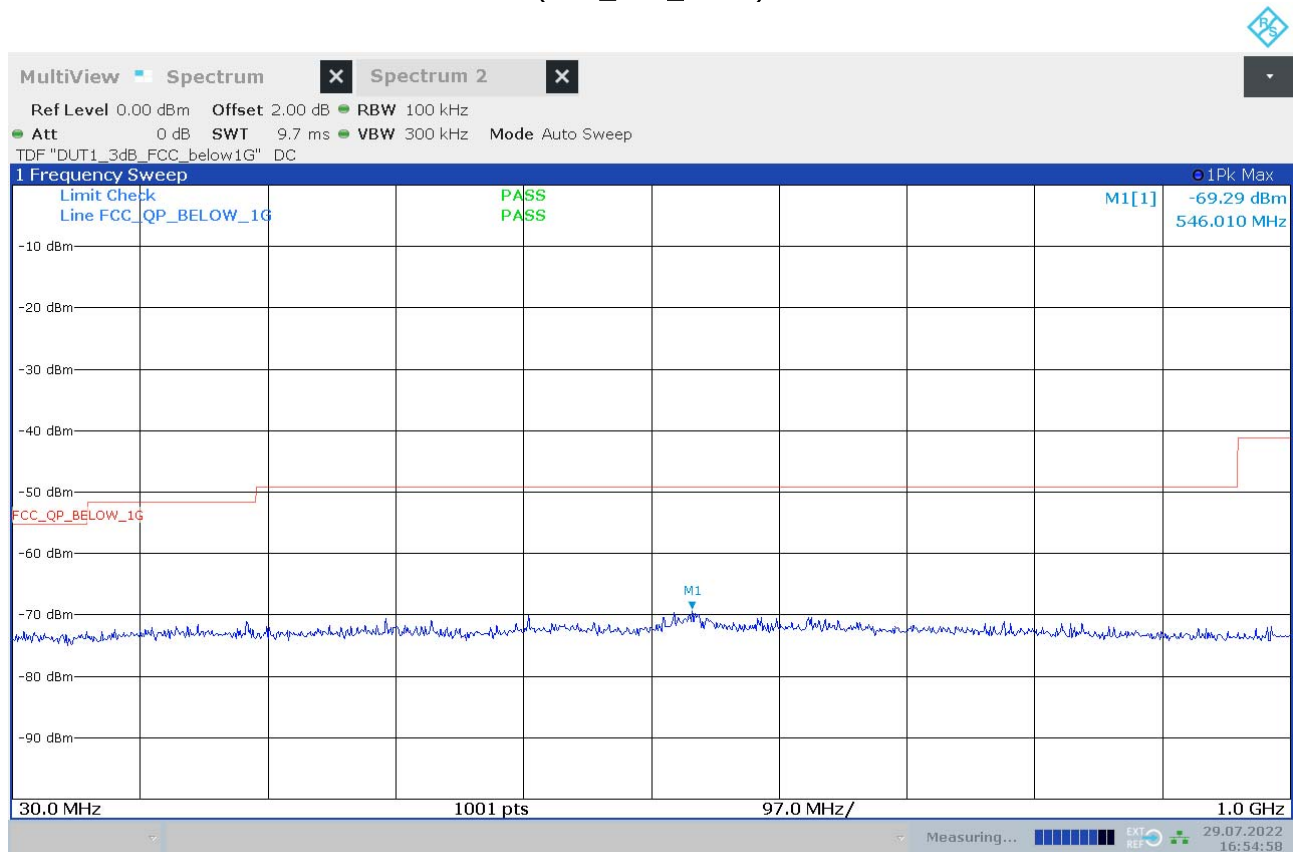
Radio Technology = Bluetooth BDR, Operating Frequency = low, Measurement range = 30 MHz
- 1 GHz
(S02_166_AE01)



Final_Result

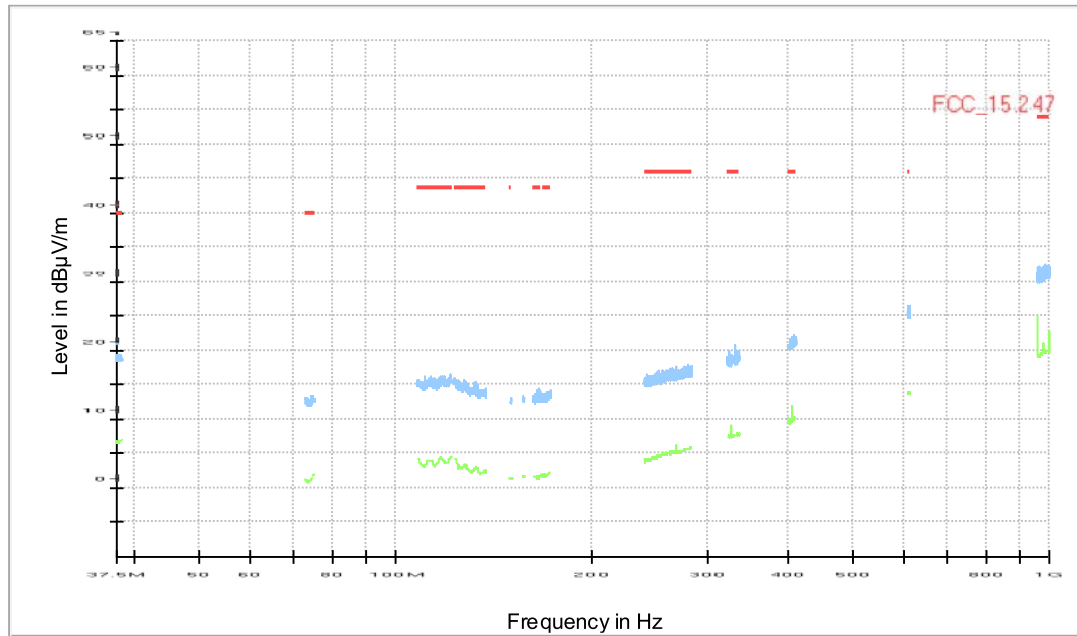
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = Bluetooth BDR, Operating Frequency = low, Measurement range = 30 MHz
- 1 GHz
(S01_166_AB01)



16:54:58 29.07.2022

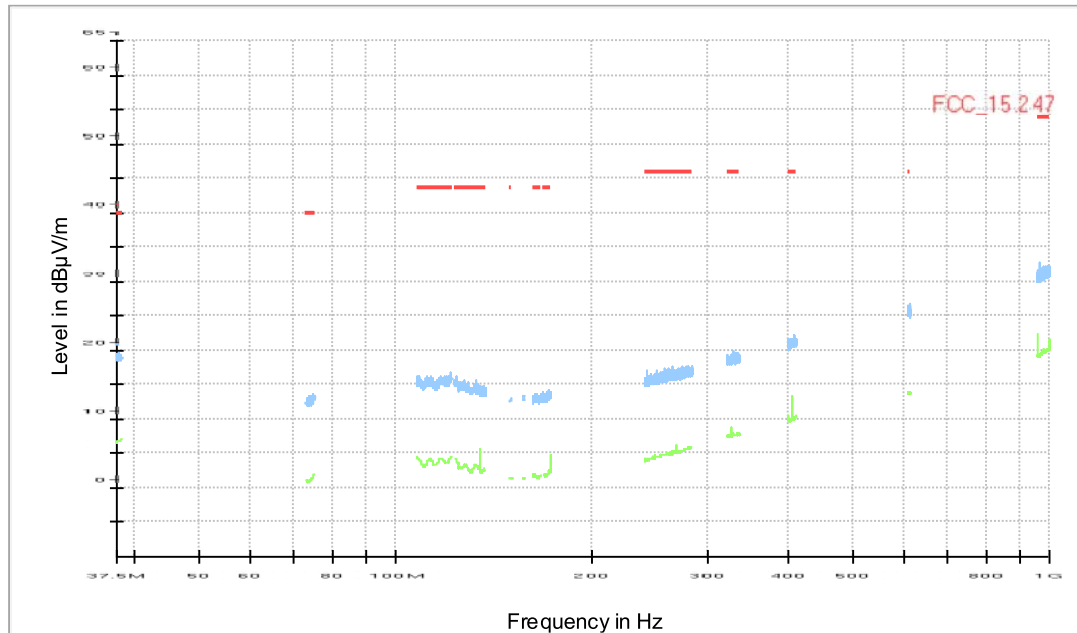
Radio Technology = WLAN b, Operating Frequency = high, Measurement range = 30 MHz - 1 GHz
(S02_166_AB01)



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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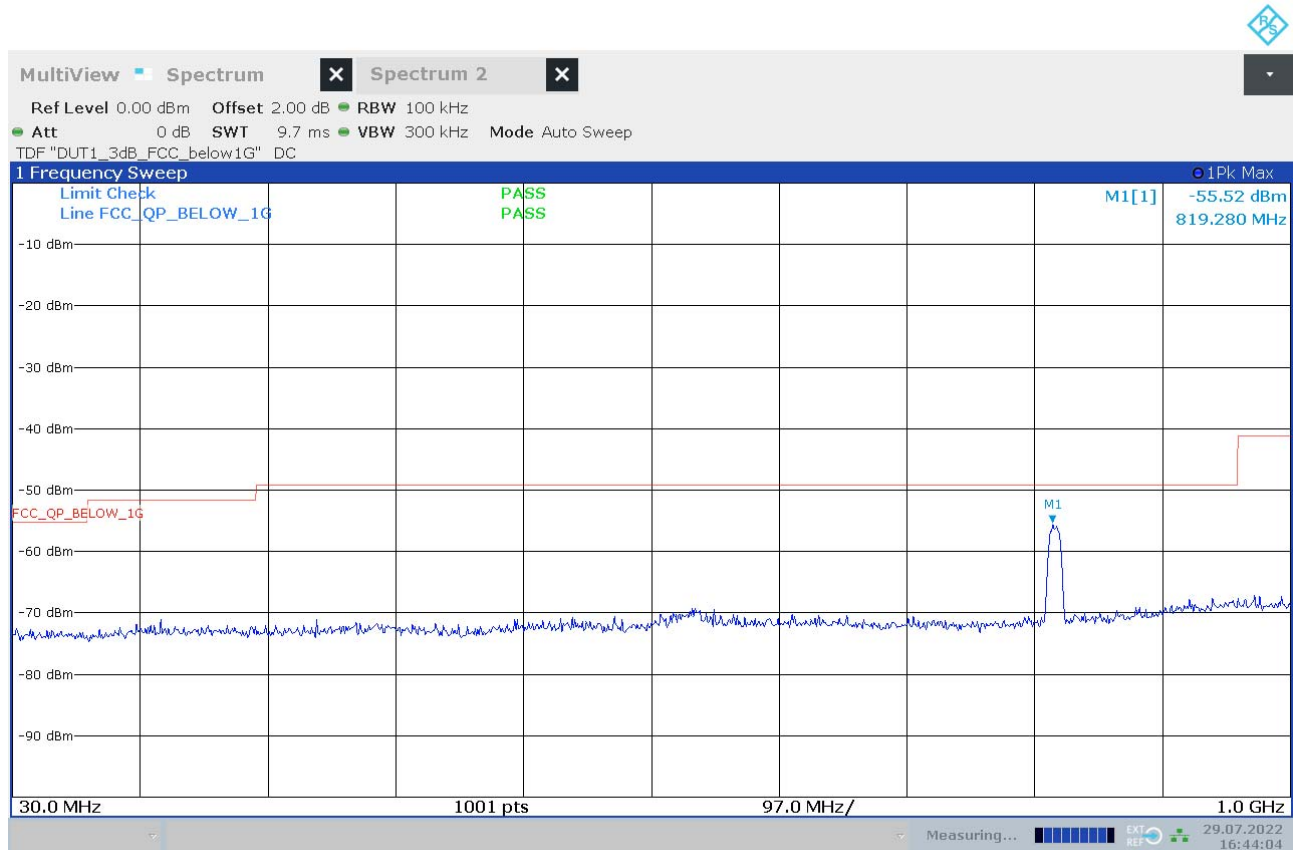
Radio Technology = WLAN b, Operating Frequency = high, Measurement range = 30 MHz - 1 GHz
(S02_166_AE01)



Final_Result

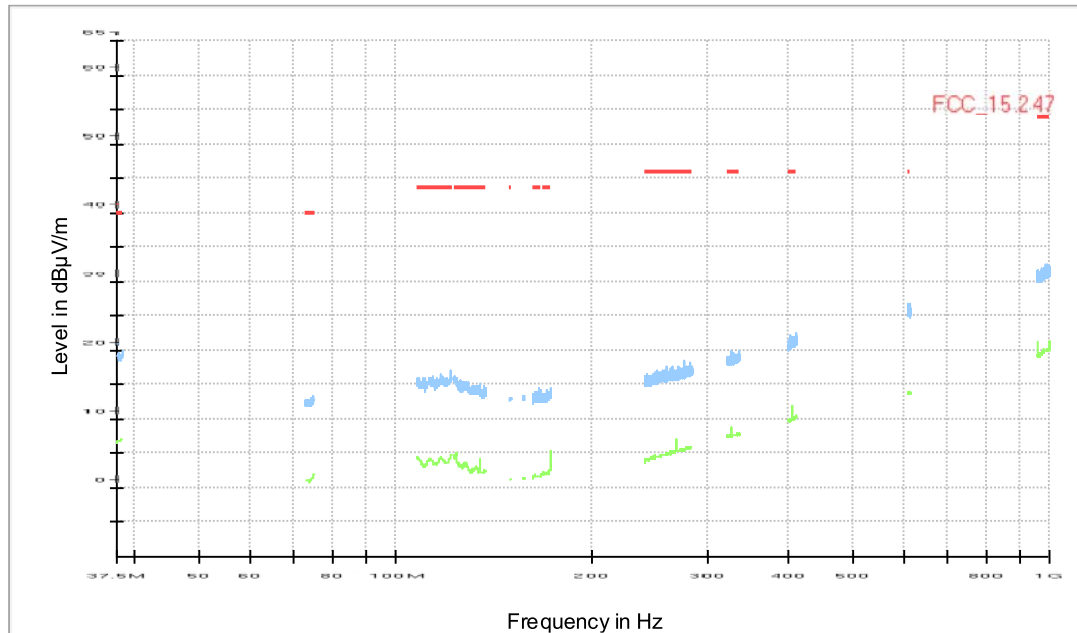
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = WLAN b, Operating Frequency = high, Measurement range = 30 MHz - 1 GHz
(S01_166_AB01)



16:44:04 29.07.2022

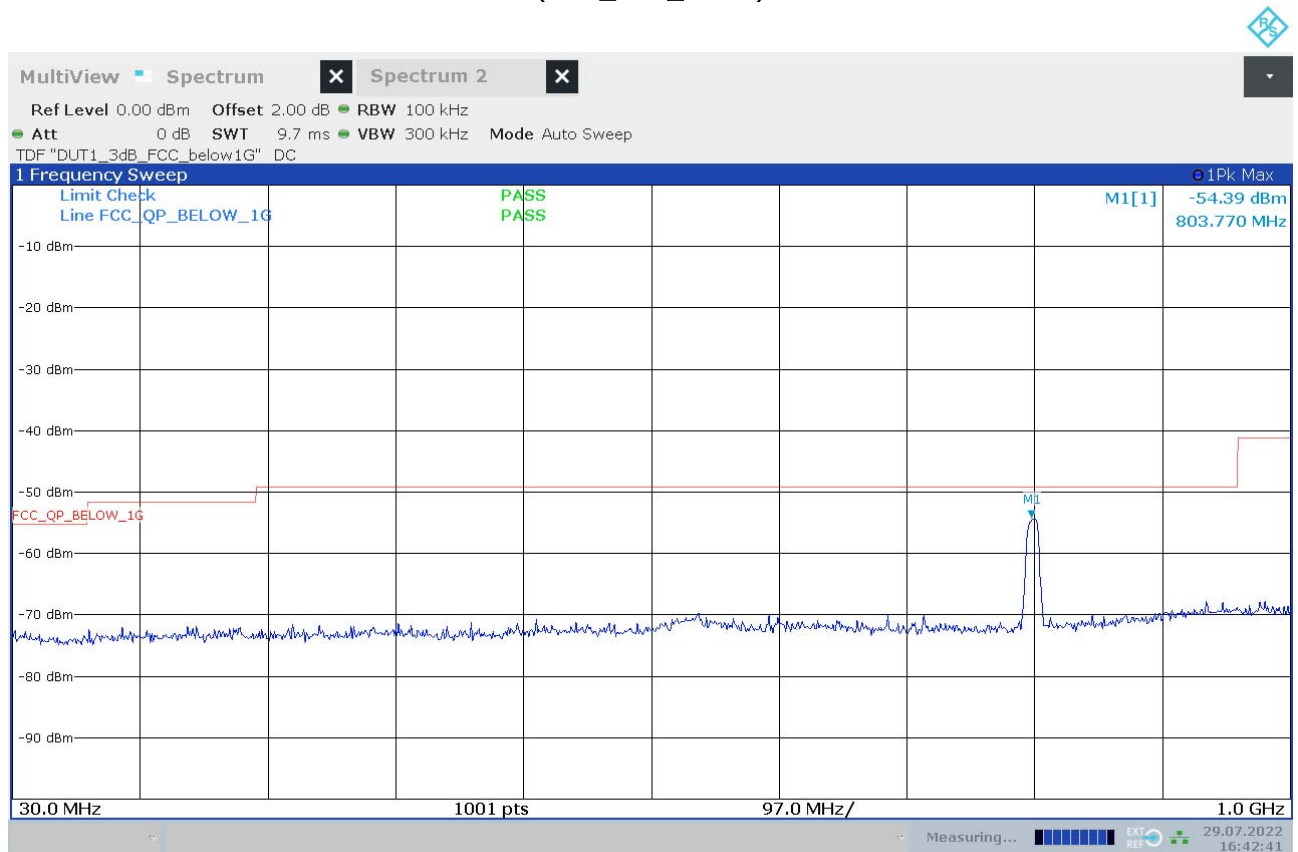
Radio Technology = WLAN b, Operating Frequency = low, Measurement range = 30 MHz - 1 GHz
(S02_166_AE01)



Final_Result

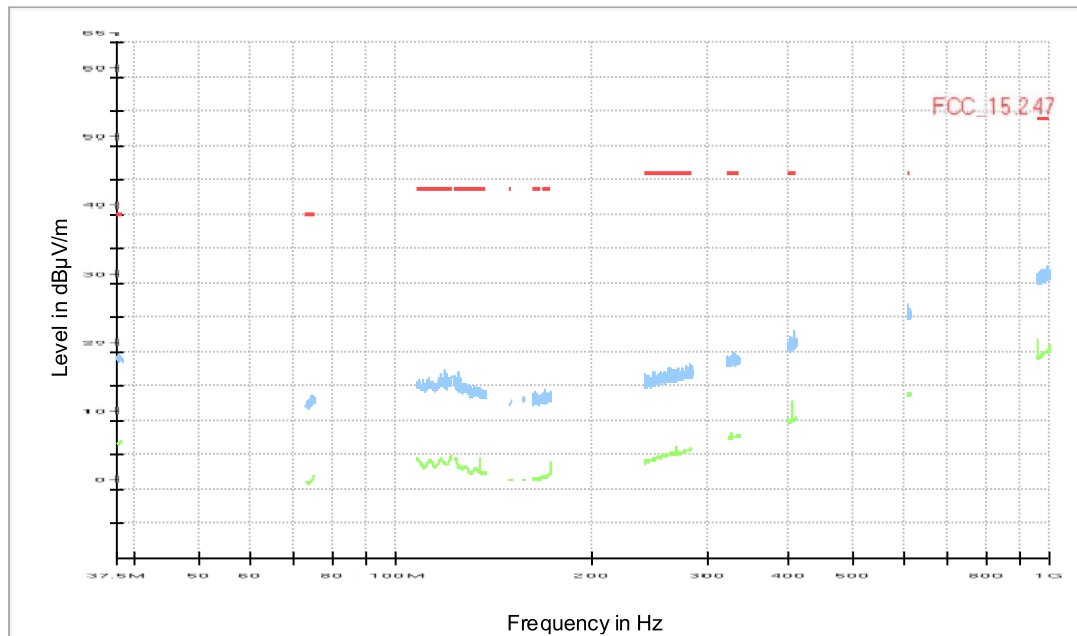
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = WLAN b, Operating Frequency = low, Measurement range = 30 MHz - 1 GHz
(S01_166_AB01)



16:42:41 29.07.2022

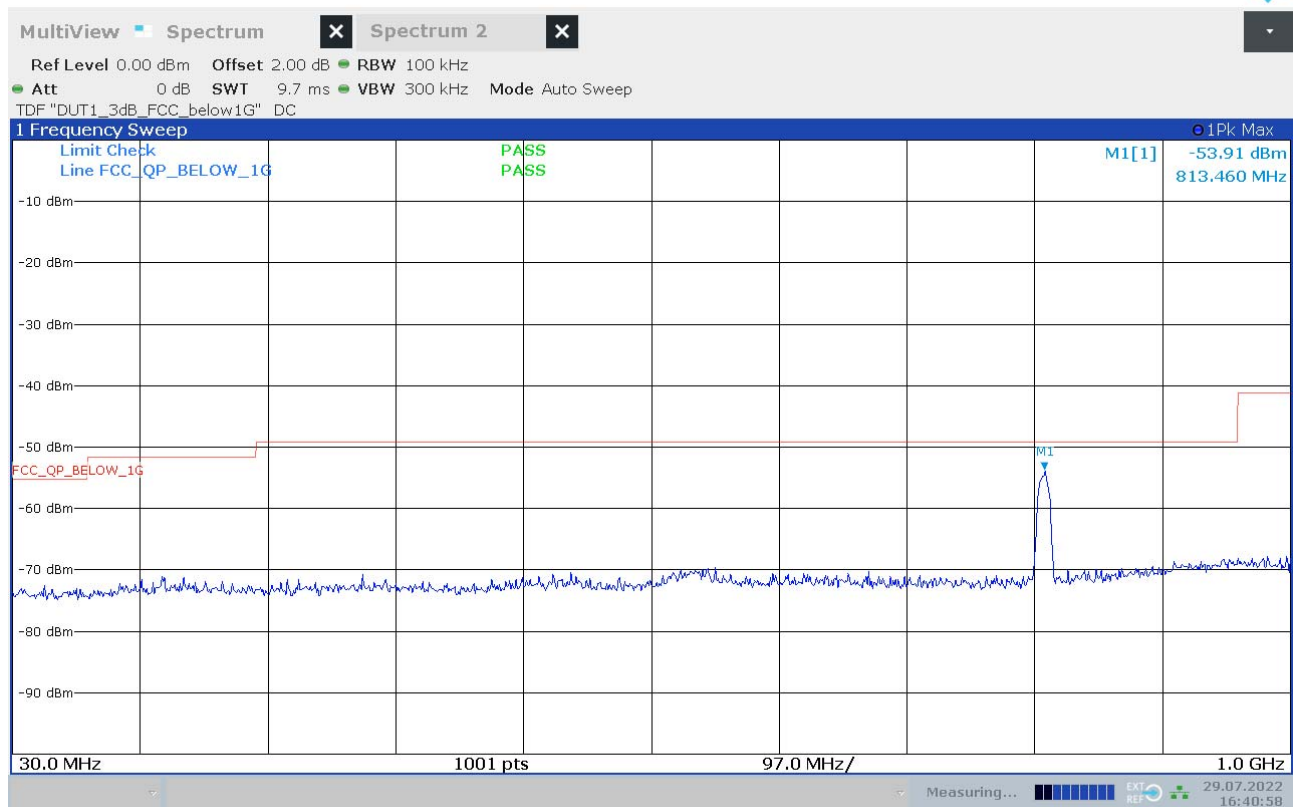
Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 30 MHz - 1
GHz
(S02_166_AE01)



Final_Result

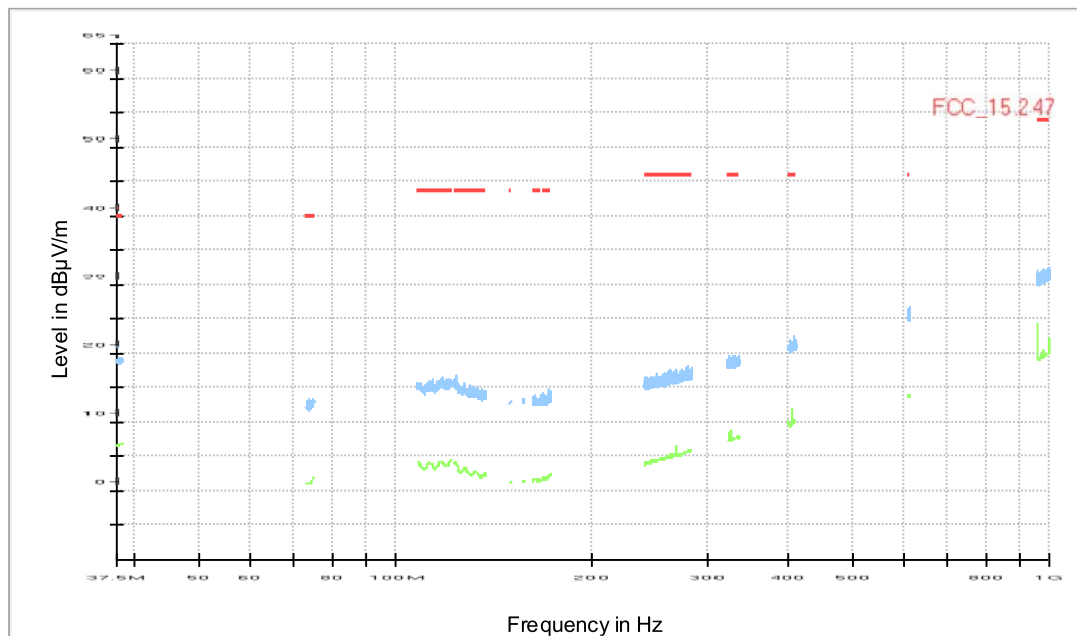
Frequency (MHz)	QuasiPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = WLAN b, Operating Frequency = mid, Measurement range = 30 MHz - 1 GHz
(S01_166_AB01)



16:40:58 29.07.2022

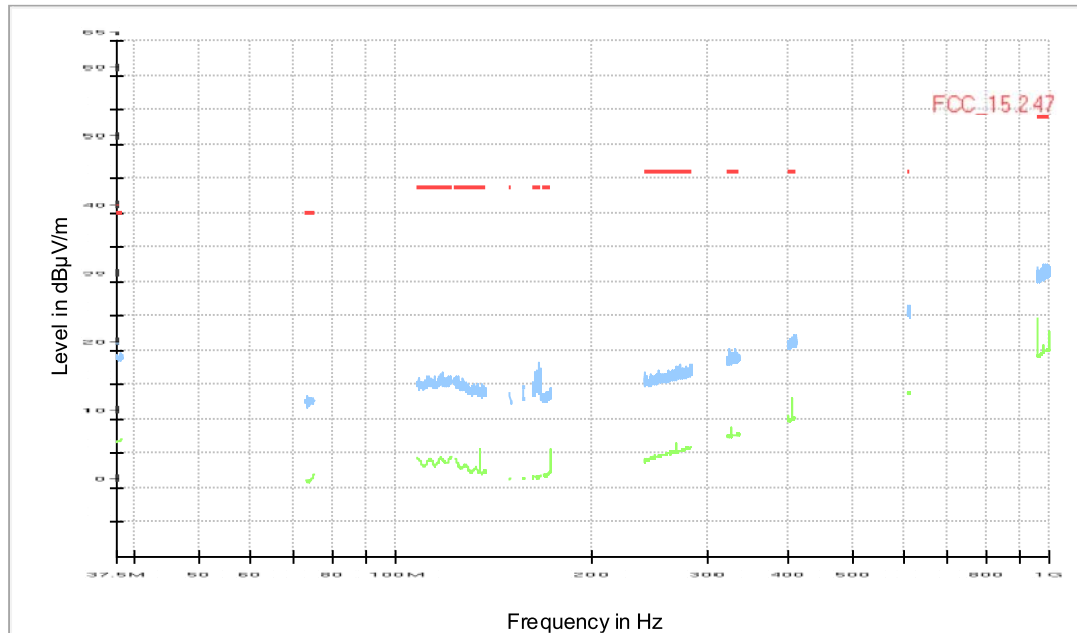
Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 30 MHz - 1 GHz
(S02_166_AB01)



Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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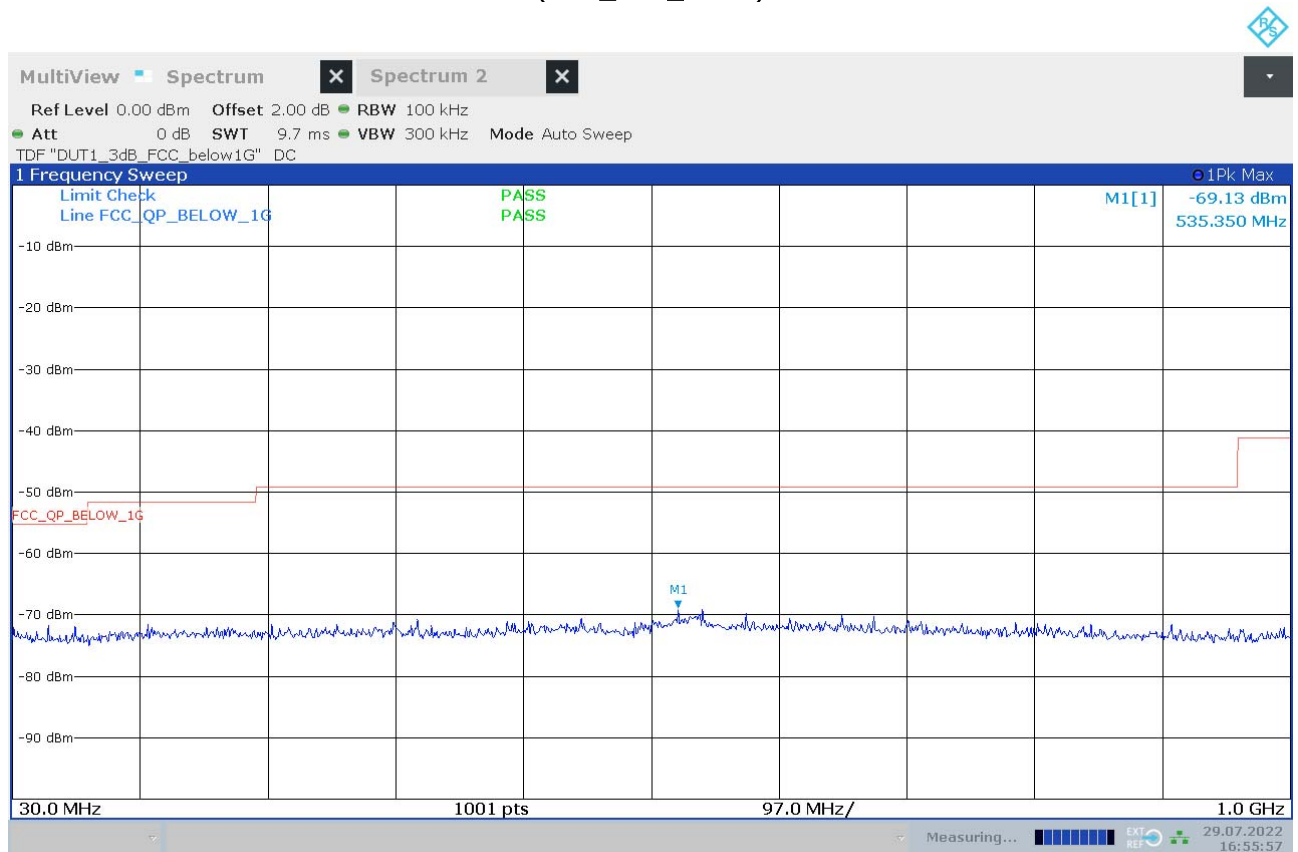
Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 30 MHz - 1 GHz
(S02_166_AE01)



Final_Result

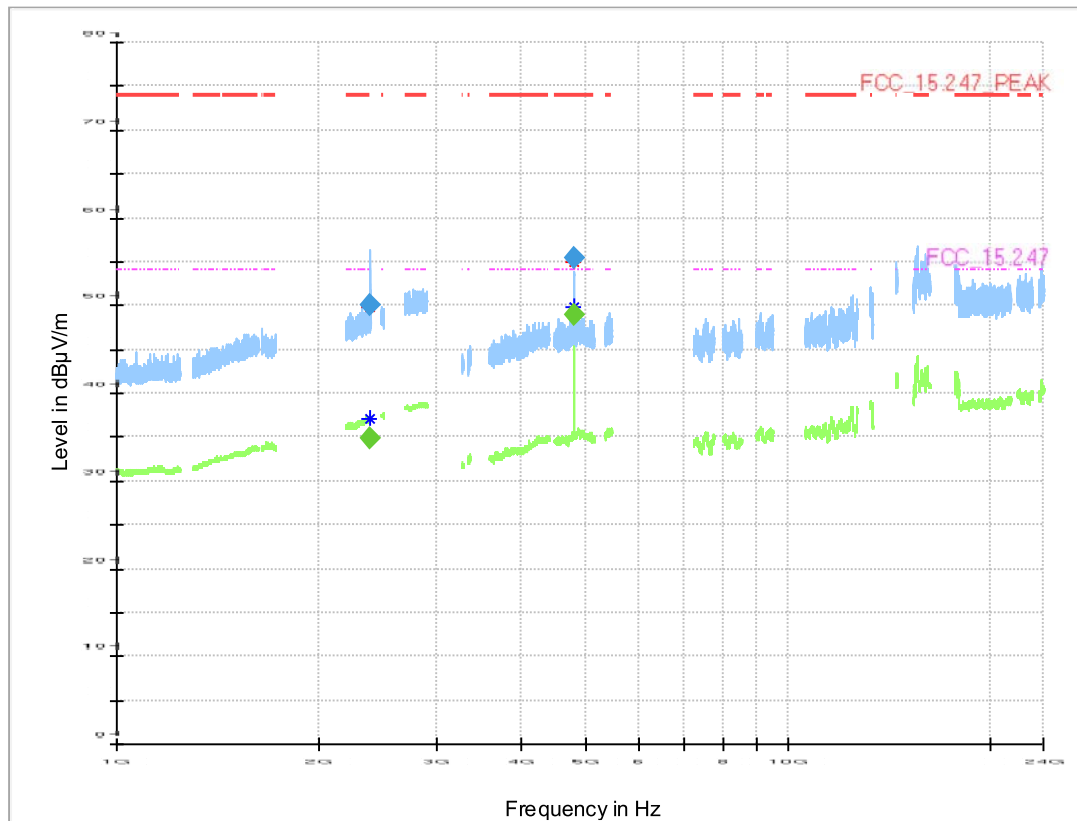
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
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Radio Technology = Bluetooth BDR, Operating Frequency = high, Measurement range = 30 MHz - 1 GHz
(S01_166_AB01)



16:55:57 29.07.2022

Radio Technology = Bluetooth BDR, Operating Frequency = low, Measurement range = 1 GHz
- 26 GHz
(S02_166_AE01)



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB/m)
2389.600	---	34.8	54.00	19.20	1000.0	1000.000	150.0	H	96.0	75.0	4.9
2389.600	50.0	---	74.00	24.04	1000.0	1000.000	150.0	H	96.0	75.0	4.9
4804.038	---	49.0	54.00	5.02	1000.0	1000.000	150.0	H	-128.0	15.0	4.8
4804.038	55.3	---	74.00	18.68	1000.0	1000.000	150.0	H	-128.0	15.0	4.8