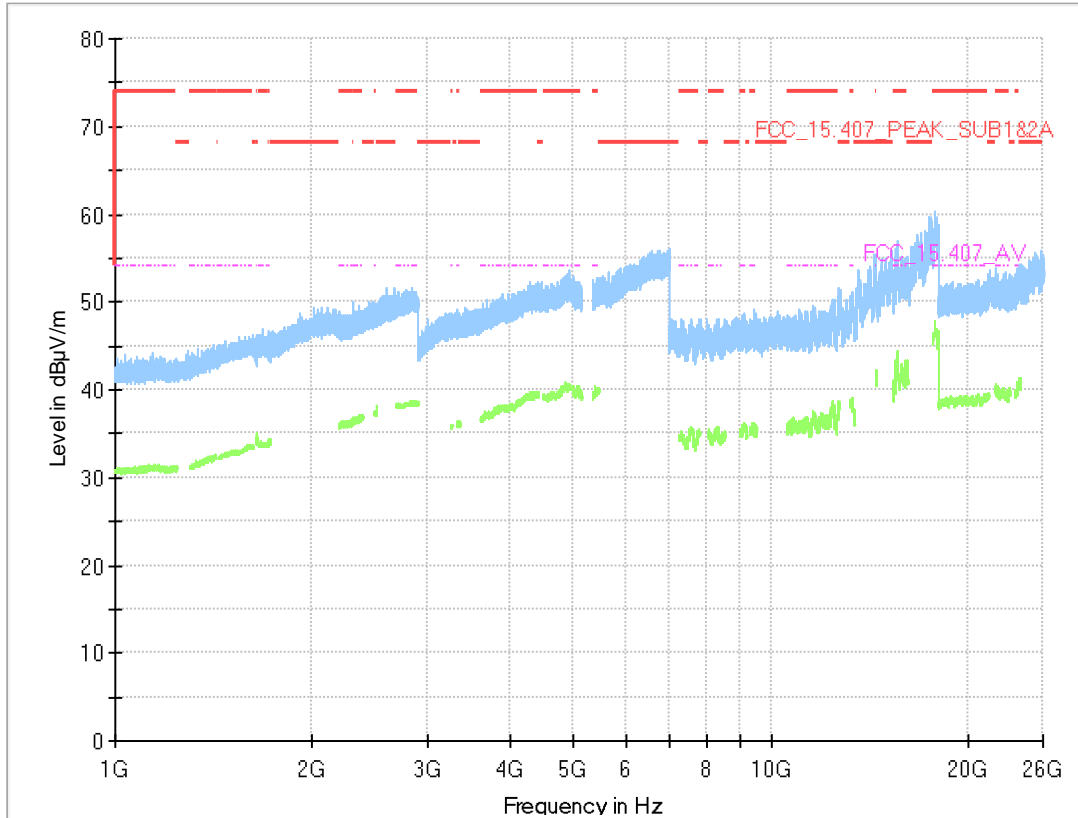


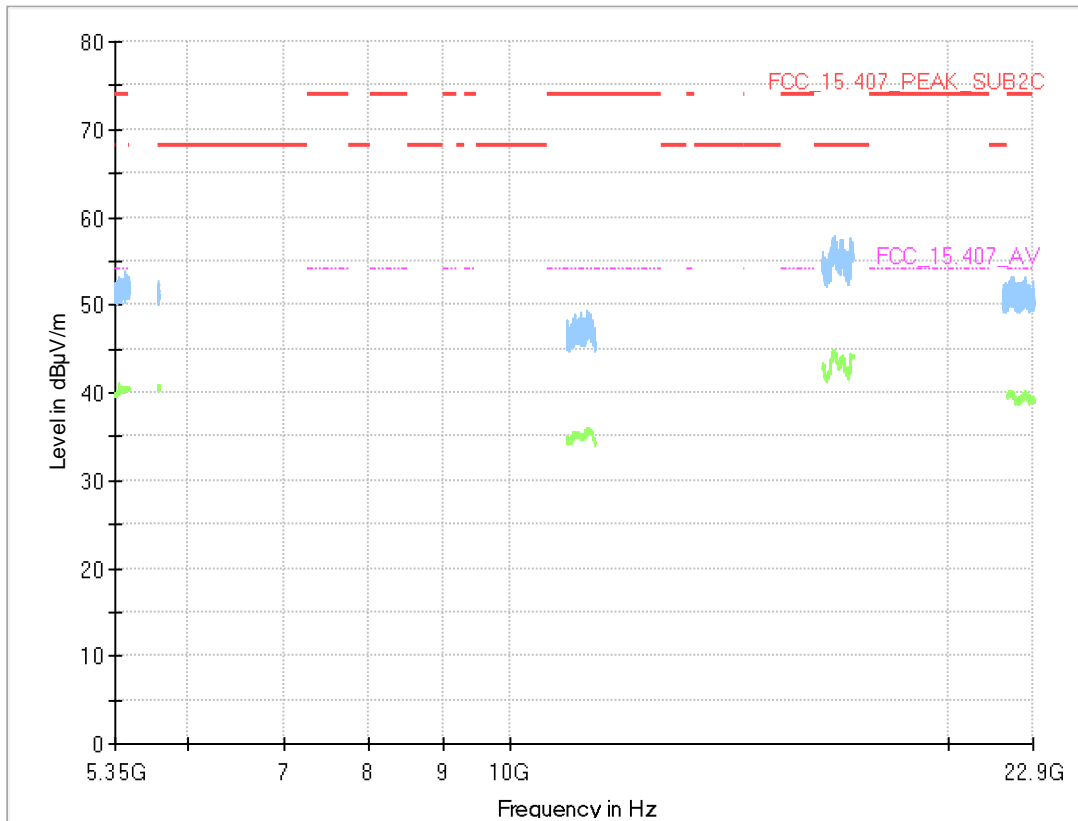
Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



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)
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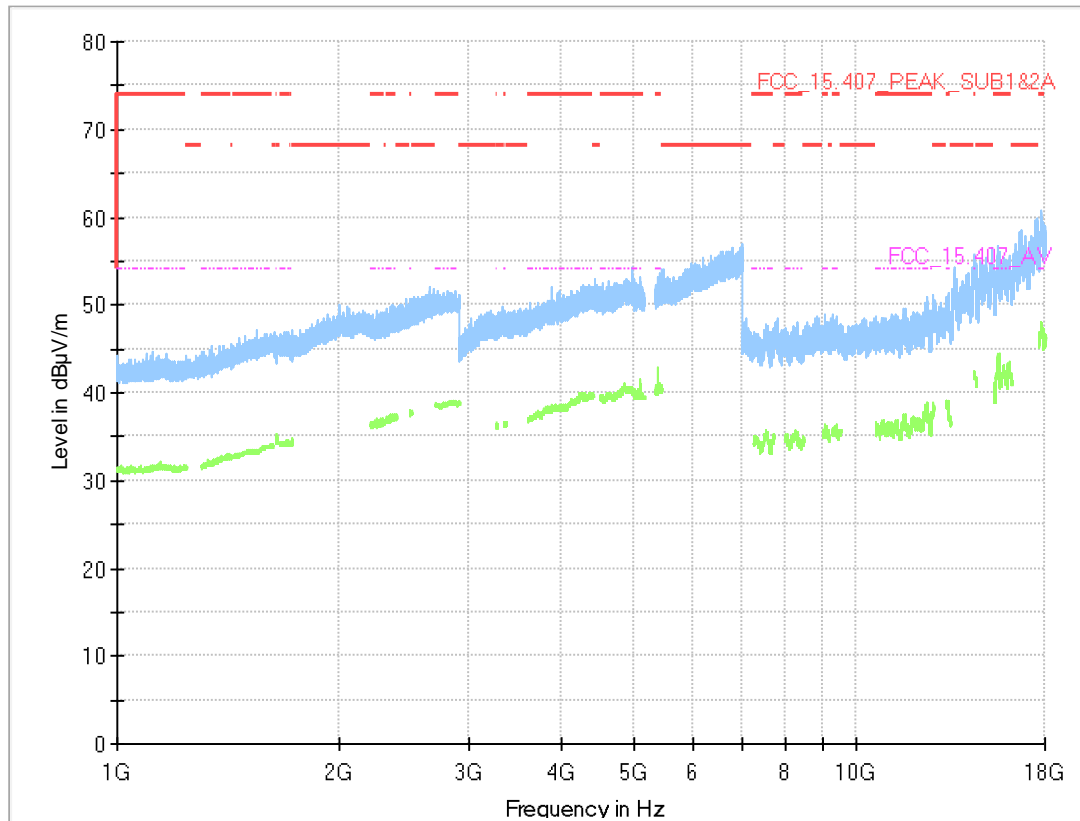
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S04_AJ03)



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)
---	---	---	---	---	---	---	---		---	---	---

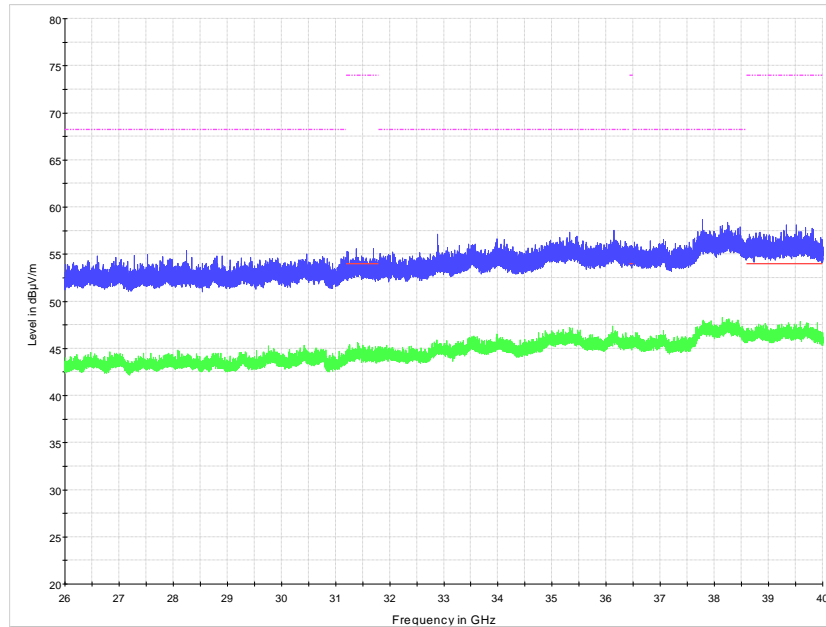
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



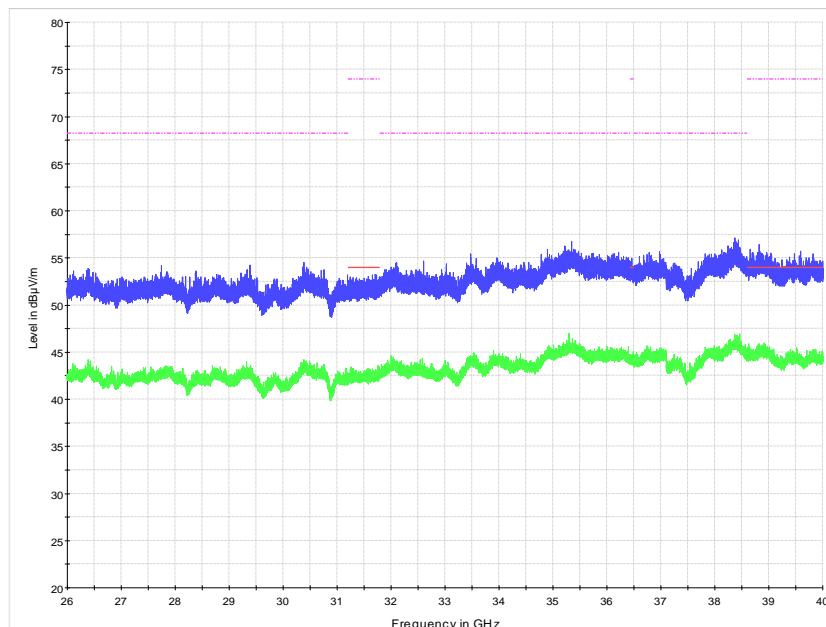
Final Result

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)
---	---	---	---	---	---	---	---		---	---	---

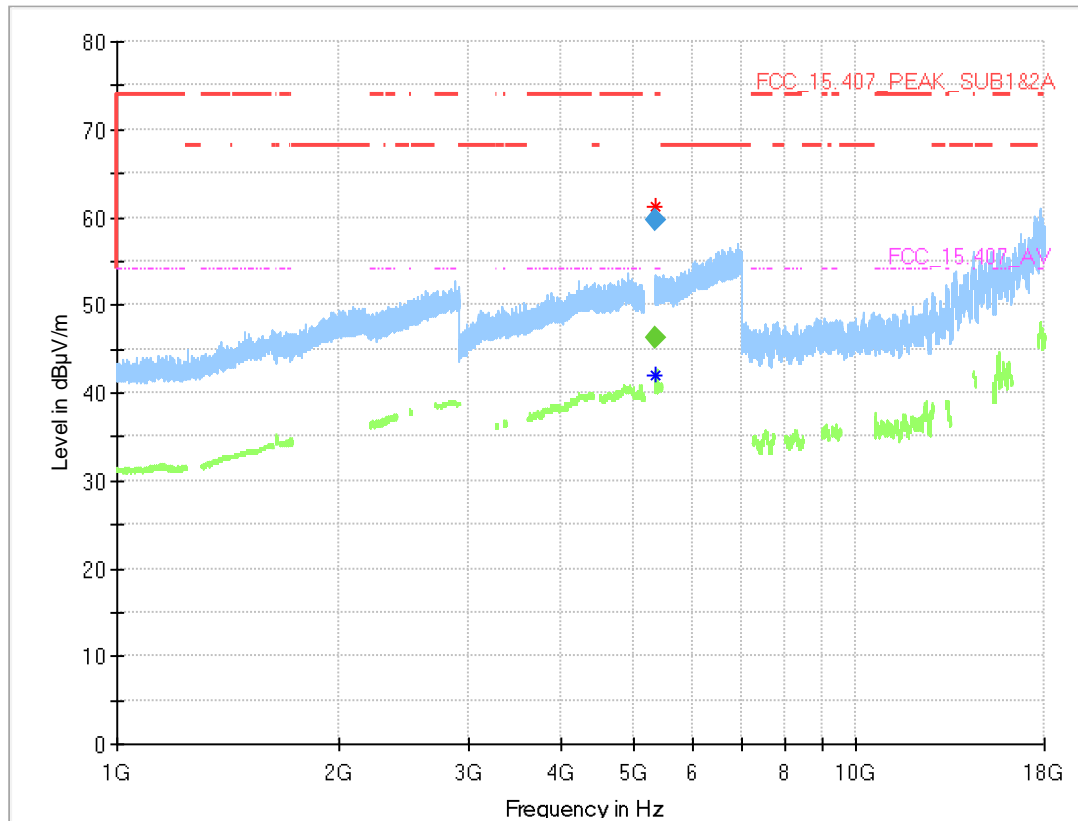
Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-2A (S04_AJ03)



Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 26GHz - 40GHz, Subband = U-NII-2C (S04_AJ03)



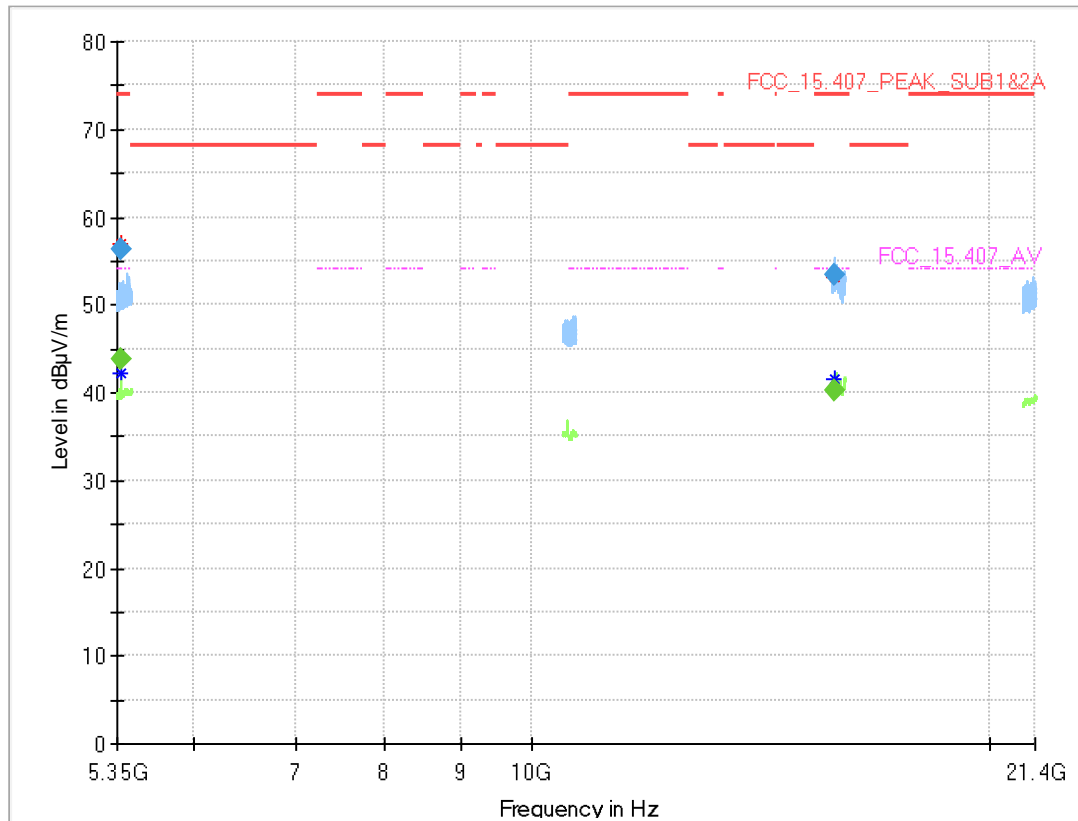
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



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)
5350.110	---	46.2	54.00	7.82	1000.0	1000.000	150.0	V	3.0	80.0	14.1
5350.110	59.7	---	74.00	14.31	1000.0	1000.000	150.0	V	3.0	80.0	14.1

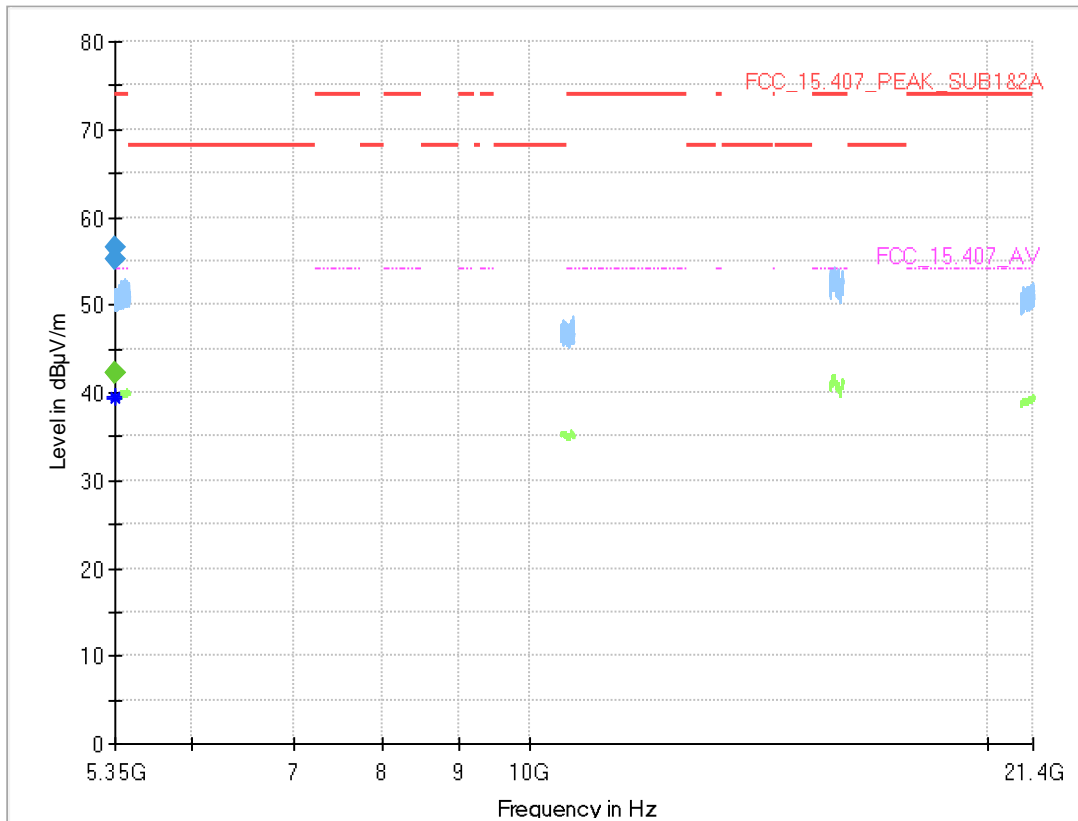
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



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)
5375.850	---	43.7	54.00	10.30	1000.0	1000.000	150.0	H	-8.0	96.0	14.2
5375.850	56.3	---	74.00	17.73	1000.0	1000.000	150.0	H	-8.0	96.0	14.2
15820.700	---	40.2	54.00	13.77	1000.0	1000.000	150.0	V	11.0	105.0	-2.9
15820.700	53.4	---	74.00	20.63	1000.0	1000.000	150.0	V	11.0	105.0	-2.9

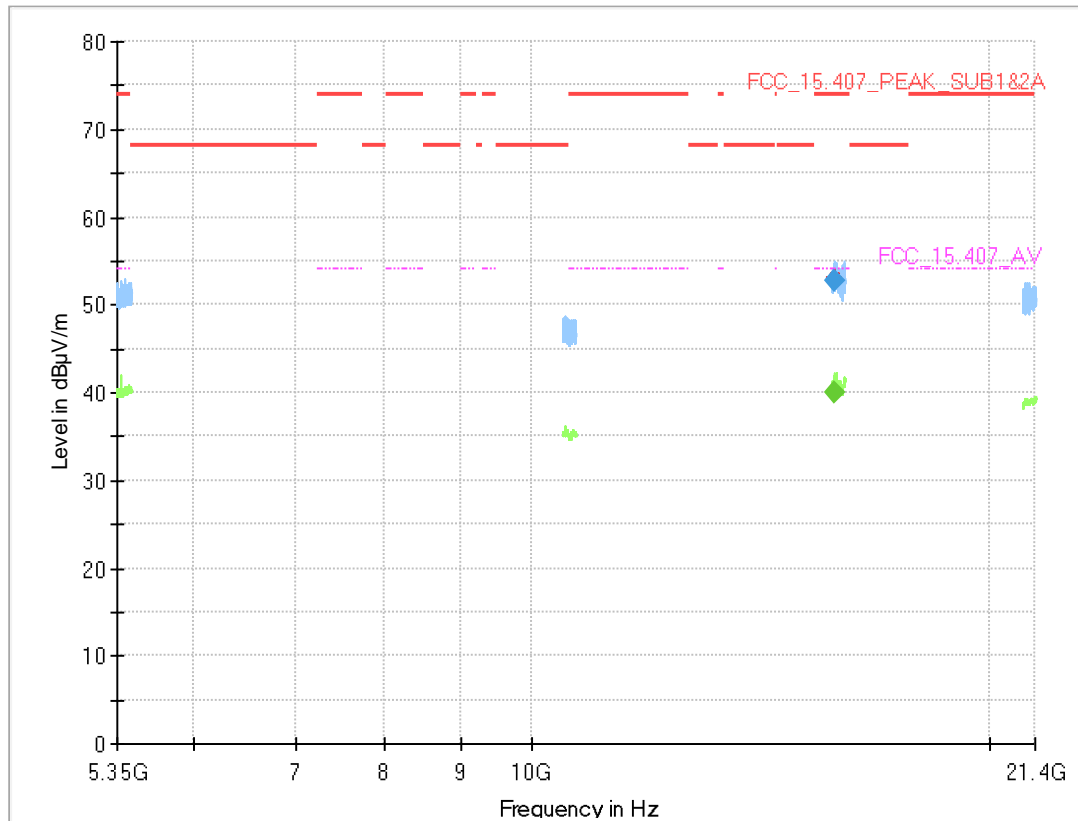
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



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)
5351.430	---	42.3	54.00	11.65	1000.0	1000.000	150.0	V	91.0	85.0	14.1
5351.430	56.5	---	74.00	17.52	1000.0	1000.000	150.0	V	91.0	85.0	14.1
5353.630	---	42.3	54.00	11.71	1000.0	1000.000	150.0	V	80.0	105.0	14.1
5353.630	55.2	---	74.00	18.75	1000.0	1000.000	150.0	V	80.0	105.0	14.1

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



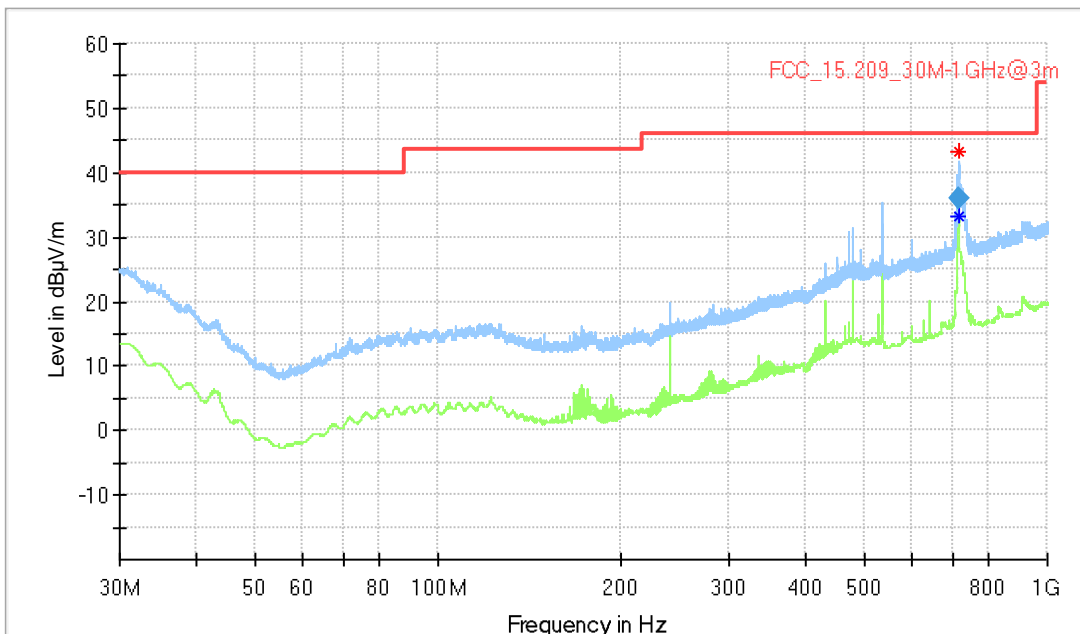
Final Result

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)
15822.600	---	40.0	54.00	13.95	1000.0	1000.000	150.0	H	-84.0	105.0	-2.9
15822.600	52.7	---	74.00	21.33	1000.0	1000.000	150.0	H	-84.0	105.0	-2.9

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Measurement range = 30MHz - 1GHz, Subband = U-NII-2A (S04_AJ03)

Common Information

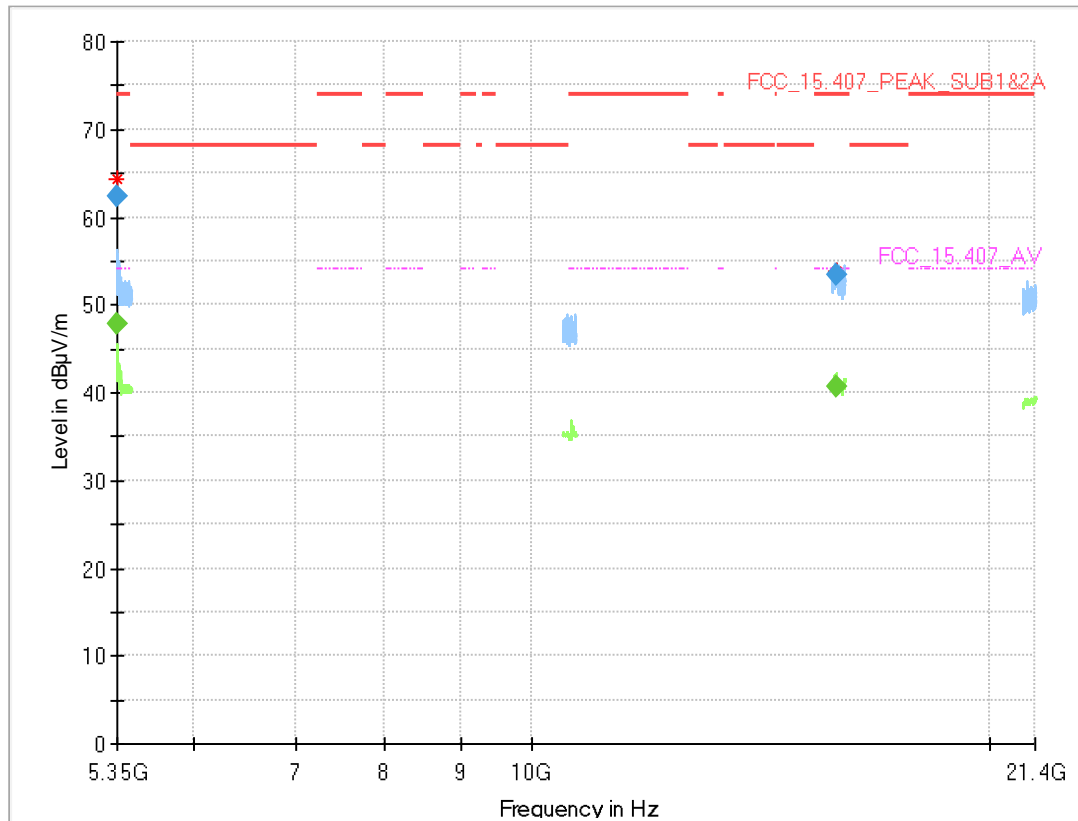
Test Description: Radiated Emissions, Test Site: Semi Anechoic Chamber @ 3 m
 Test Standard: ANSI C63.10
 EUT / Setup Code: DE1039028aj03
 Operating Conditions: CH 62, 5310 MHz, 40 MHz n-mode, MIMO, 18 dBm per chain
 Operator Name: HAE/GAL
 Comment:
 Legend: Trace (preview): blue = PK, green = QP; Star: red or blue = critical frequency; Rhombus: blue = final QP



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)
714.900000	35.85	46.00	10.15	1000.0	120.000	115.0	H	-76.0	23.2

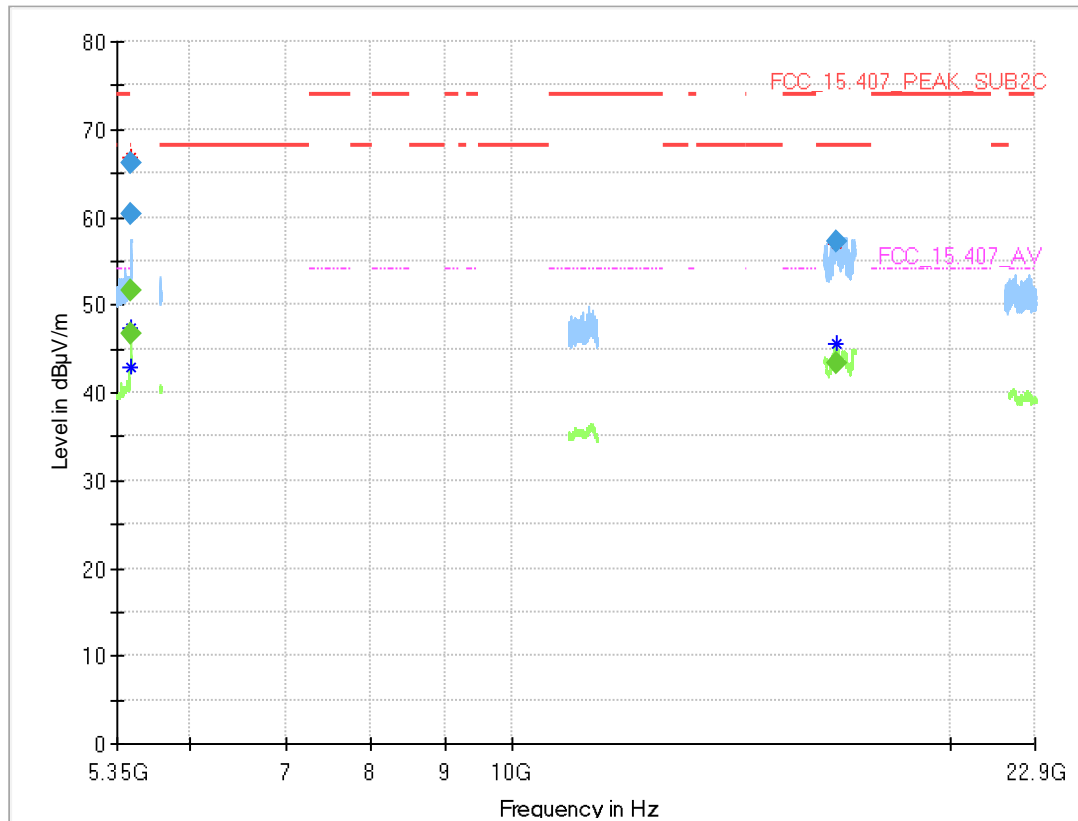
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S04_AJ03)



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)
5350.880	---	47.8	54.00	6.18	1000.0	1000.000	150.0	V	9.0	98.0	14.1
5350.880	62.2	---	74.00	11.77	1000.0	1000.000	150.0	V	9.0	98.0	14.1
15842.200	---	40.6	54.00	13.40	1000.0	1000.000	150.0	V	98.0	98.0	-2.7
15842.200	53.4	---	74.00	20.65	1000.0	1000.000	150.0	V	98.0	98.0	-2.7

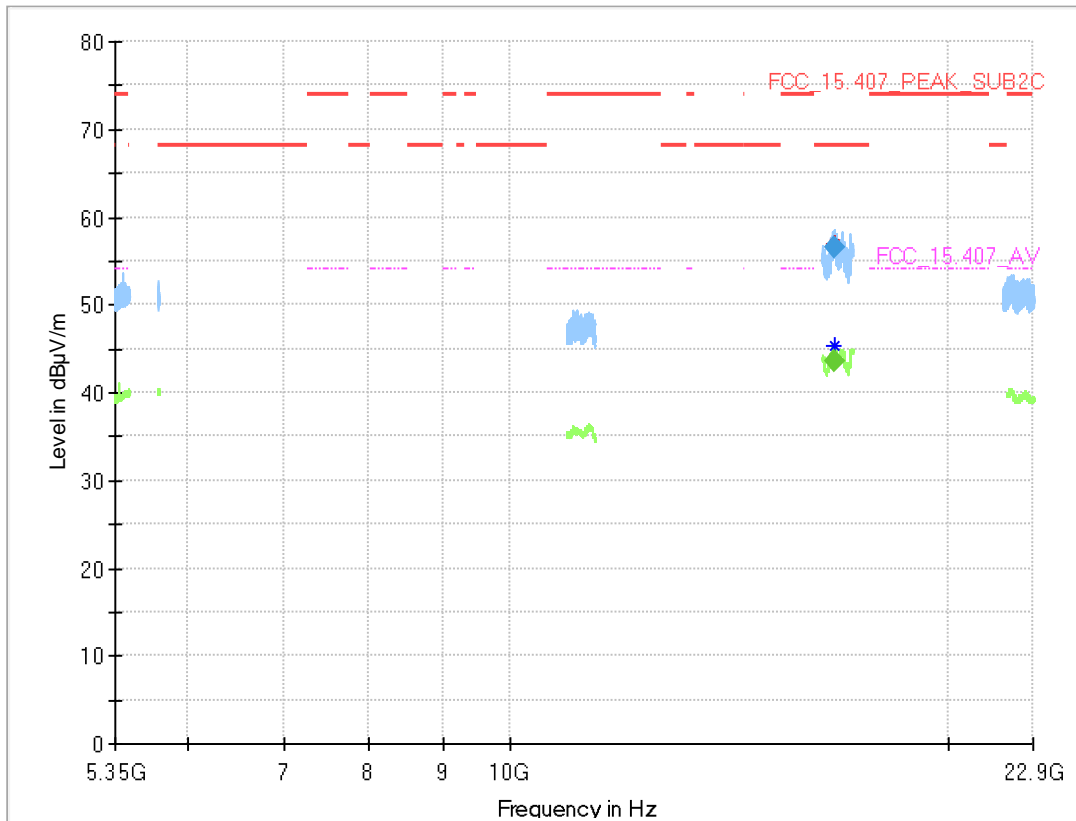
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C
(S04_AJ03)



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)
5459.800	---	46.8	54.00	7.18	1000.0	1000.000	150.0	V	-1.0	105.0	14.5
5459.800	60.3	---	74.00	13.65	1000.0	1000.000	150.0	V	-1.0	105.0	14.5
5470.000	---	51.5	---	---	1000.0	1000.000	150.0	V	-1.0	105.0	14.4
5470.000	66.2	---	68.20	1.95	1000.0	1000.000	150.0	V	-1.0	105.0	14.4
16703.282	---	43.4	---	---	1000.0	1000.000	150.0	H	-183.0	15.0	-0.6
16703.282	57.3	---	68.20	10.92	1000.0	1000.000	150.0	H	-183.0	15.0	-0.6

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S04_AJ03)



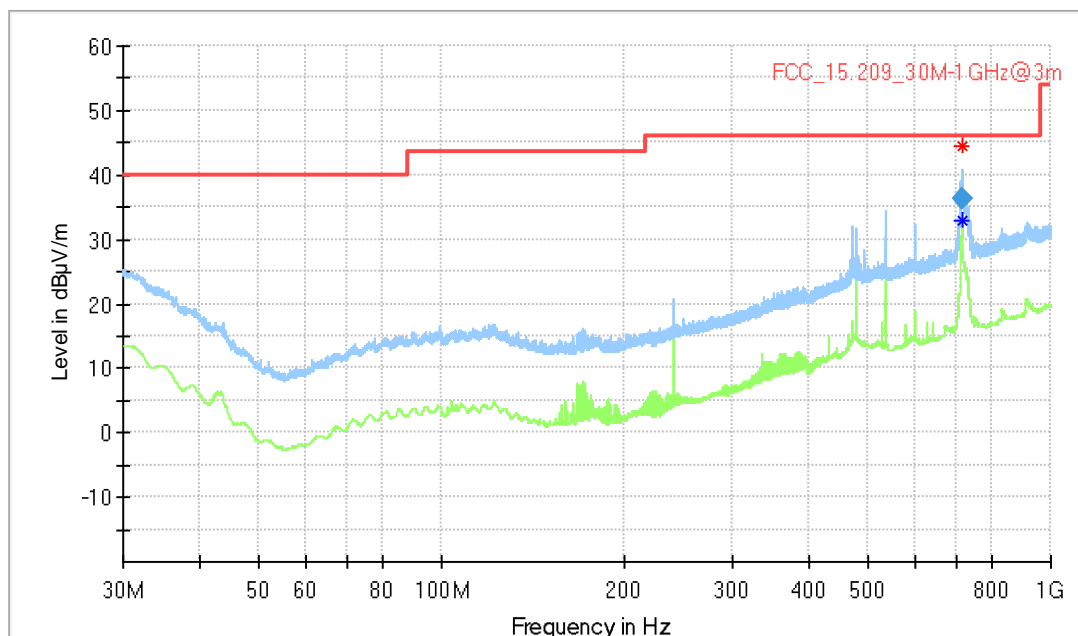
Final Result

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)
16700.126	---	43.6	---	---	1000.0	1000.000	150.0	H	-134.0	-12.0	-0.5
16700.126	56.6	---	68.20	11.61	1000.0	1000.000	150.0	H	-134.0	-12.0	-0.5

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = mid, Measurement range = 30MHz - 1GHz, Subband = U-NII-2C (S04_AJ03)

Common Information

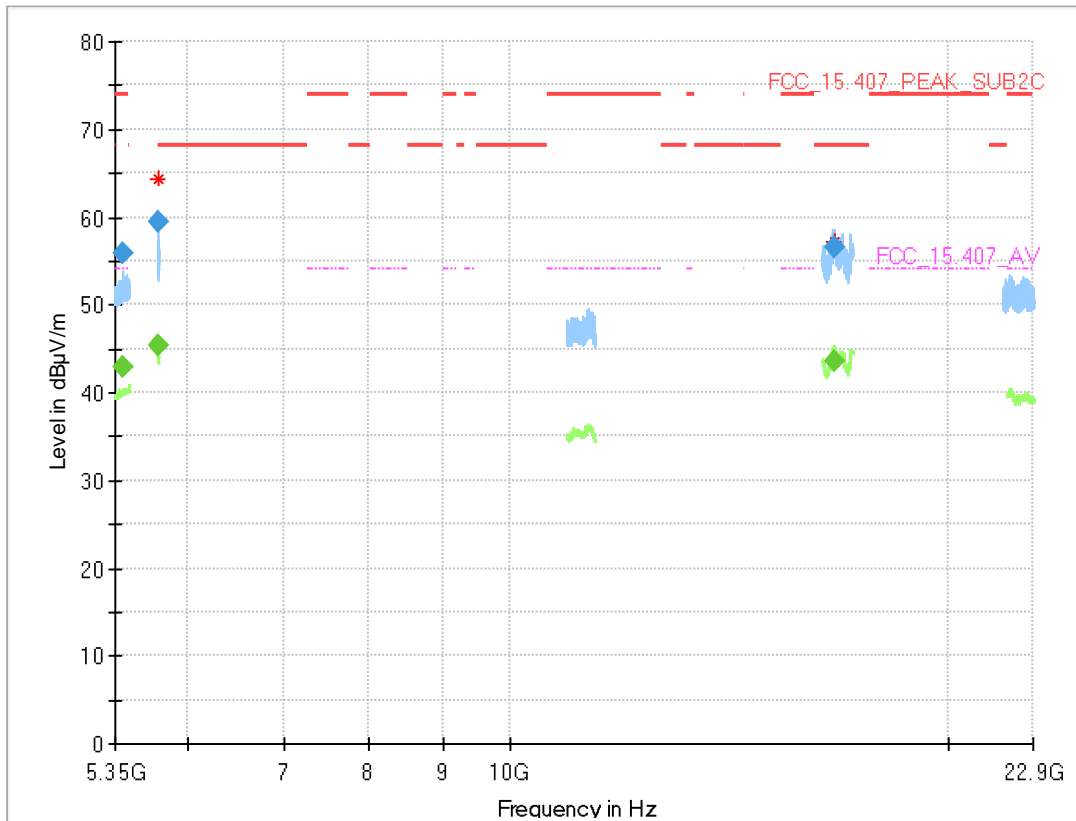
Test Description: Radiated Emissions, Test Site: Semi Anechoic Chamber @ 3 m
 Test Standard: ANSI C63.10
 EUT / Setup Code: DE1039028aj03
 Operating Conditions: CH 110, 5550 MHz, n-mode, 40 MHz, MIMO, 18 dBm per chain
 Operator Name: HAE/GAL
 Comment:
 Legend: Trace (preview): blue = PK, green = QP; Star: red or blue = critical frequency; Rhombus: blue = final QP



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)
715.500000	36.20	46.00	9.80	1000.0	120.000	119.0	H	-66.0	23.2

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S04_AJ03)

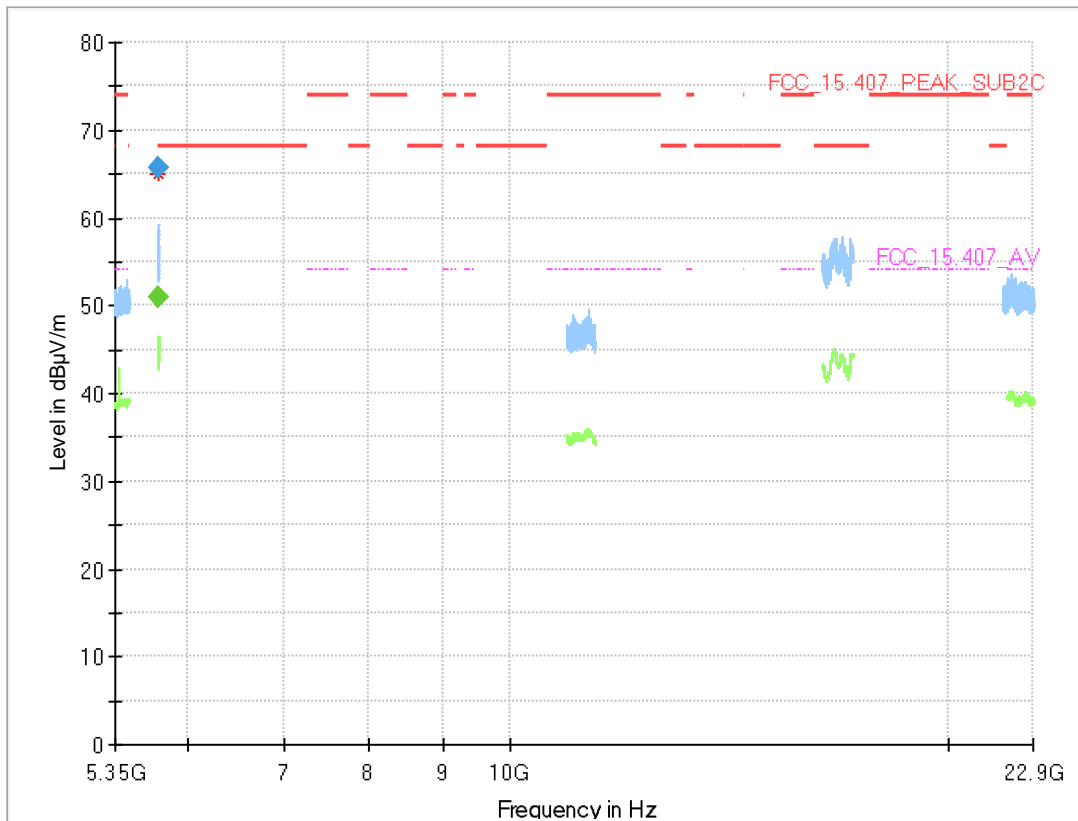


Final Result

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)
5416.960	---	43.0	54.00	11.02	1000.0	1000.000	150.0	V	131.0	78.0	14.5
5416.960	55.9	---	74.00	18.13	1000.0	1000.000	150.0	V	131.0	78.0	14.5
5727.800	---	45.3	---	---	1000.0	1000.000	150.0	H	-36.0	89.0	14.2
5727.800	59.5	---	68.20	8.71	1000.0	1000.000	150.0	H	-36.0	89.0	14.2
16706.151	---	43.5	---	---	1000.0	1000.000	150.0	V	53.0	103.0	-0.7
16706.151	56.5	---	68.20	11.70	1000.0	1000.000	150.0	V	53.0	103.0	-0.7

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S03_AJ03)

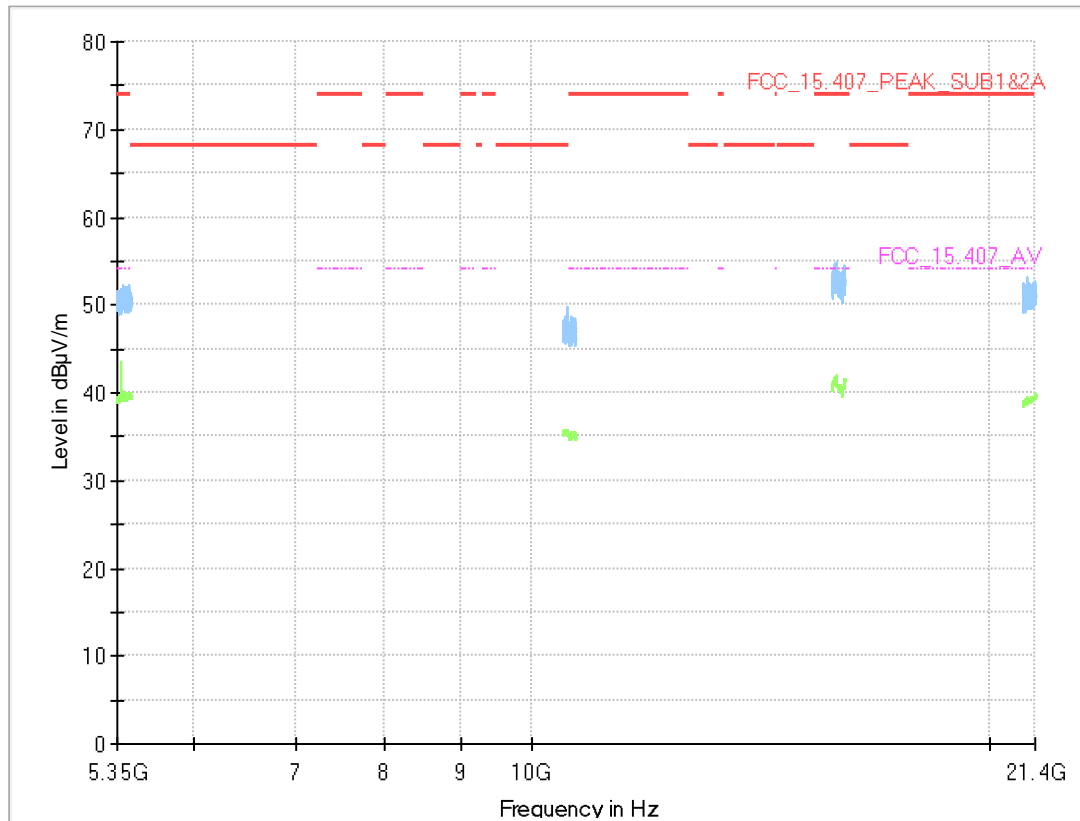


Final_Result

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)
5725.150	---	51.1	---	---	1000.0	1000.000	150.0	V	-11.0	102.0	14.2
5725.150	65.7	---	68.20	2.45	1000.0	1000.000	150.0	V	-11.0	102.0	14.2

Final Results can be found in Band Edge Radiated test case.

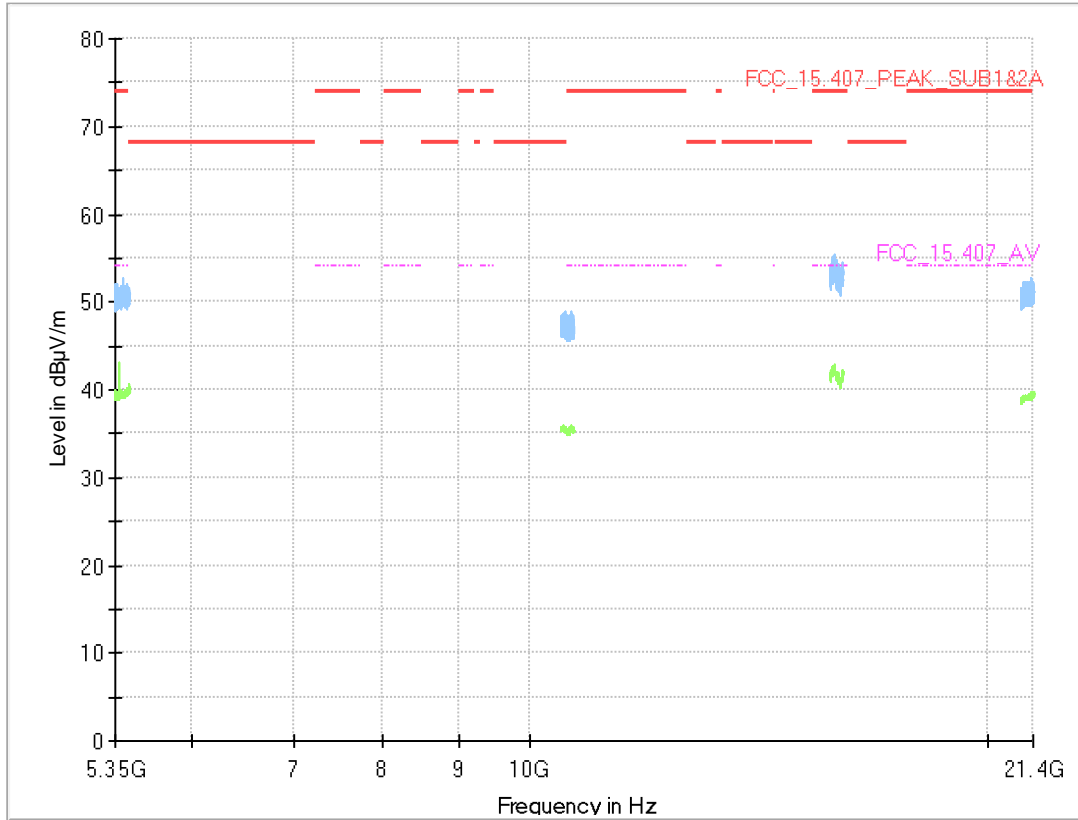
Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S03_AJ03)



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)
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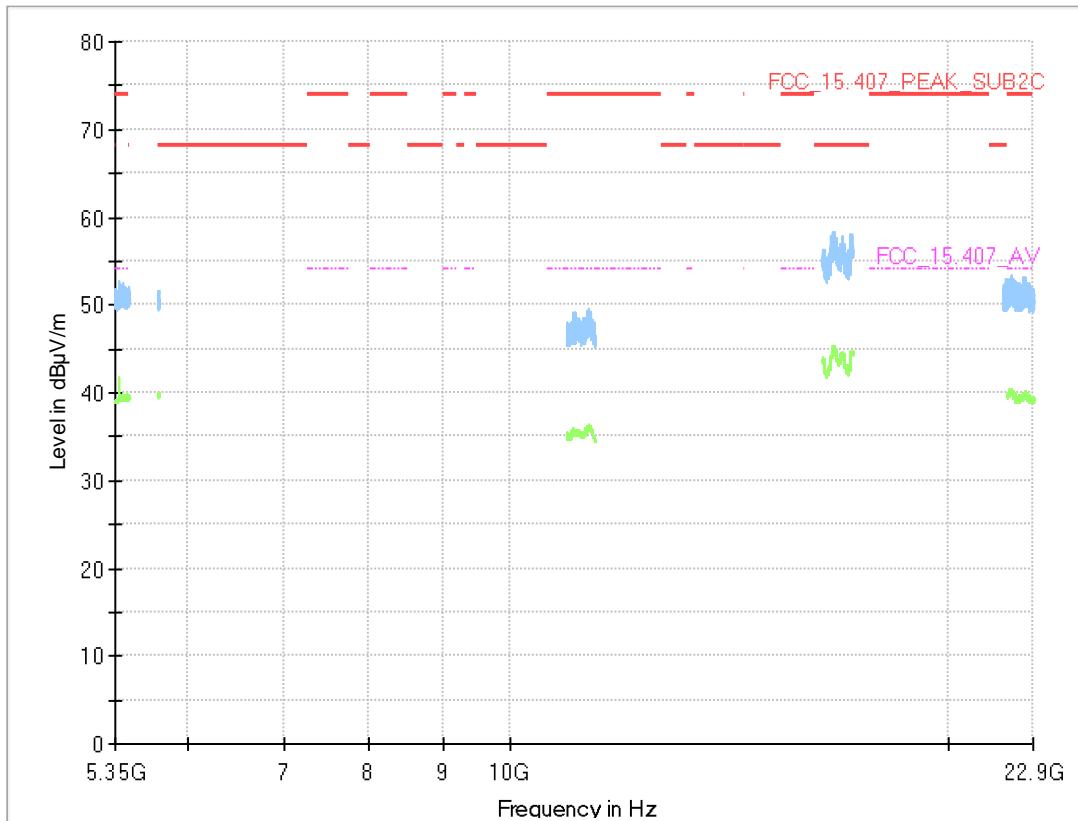
Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S03_AJ03)



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)
---	---	---	---	---	---	---	---	---	---	---	---

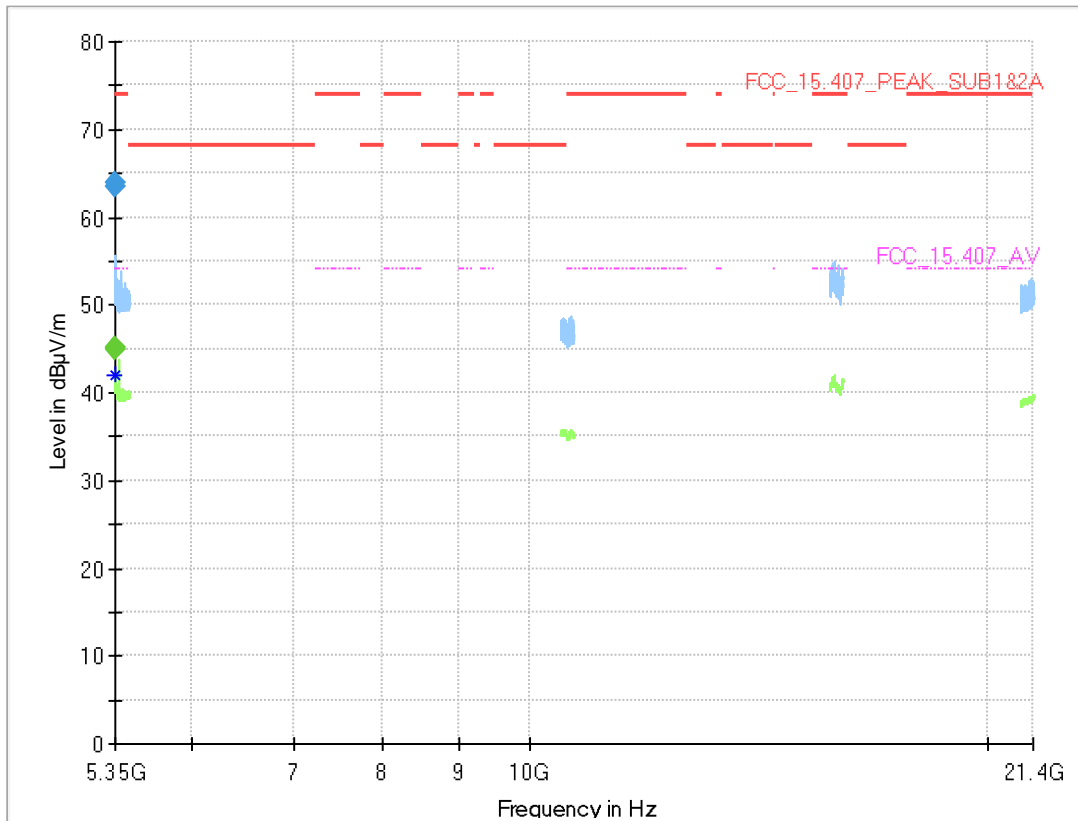
Radio Technology = WLAN a, Operating Frequency = mid, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S03_AJ03)



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)
---	---	---	---	---	---	---	---		---	---	---

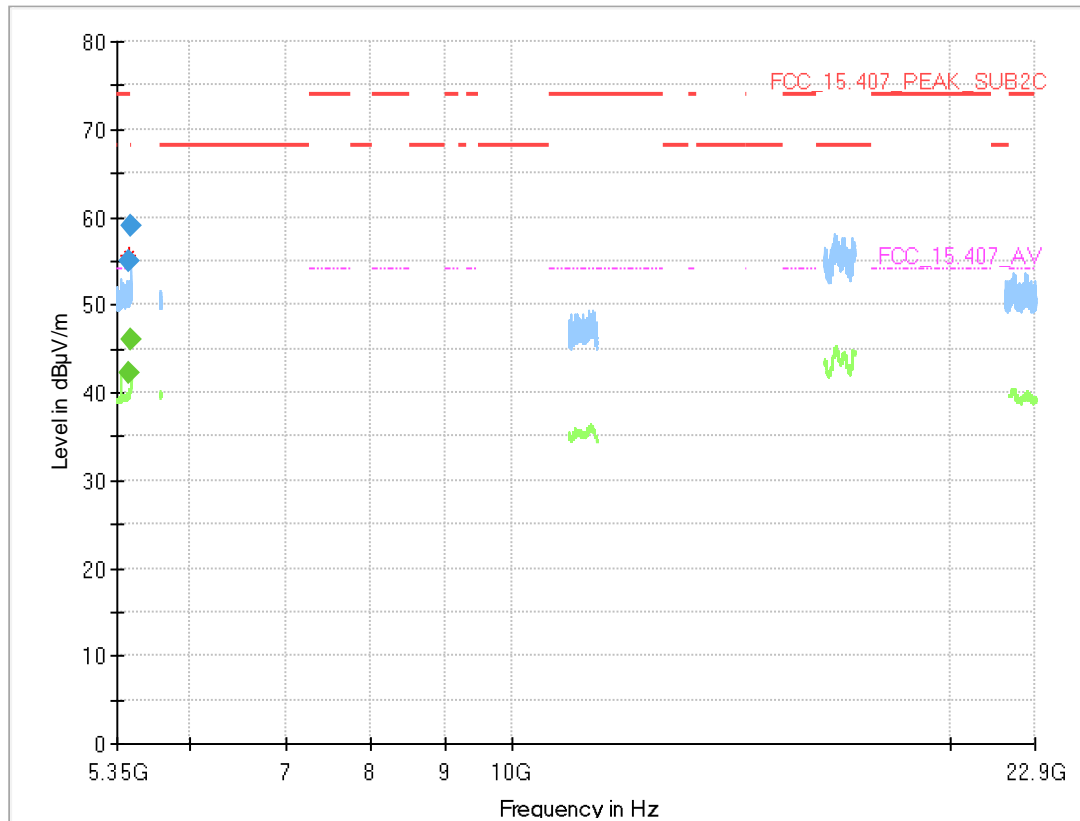
Radio Technology = WLAN a, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2A (S03_AJ03)



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)
5351.430	---	45.1	54.00	8.92	1000.0	1000.000	150.0	V	-5.0	105.0	14.1
5351.430	63.9	---	74.00	10.07	1000.0	1000.000	150.0	V	-5.0	105.0	14.1
5351.870	---	44.9	54.00	9.10	1000.0	1000.000	150.0	V	-9.0	105.0	14.1
5351.870	63.5	---	74.00	10.46	1000.0	1000.000	150.0	V	-9.0	105.0	14.1

Radio Technology = WLAN a, Operating Frequency = low, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S03_AJ03)

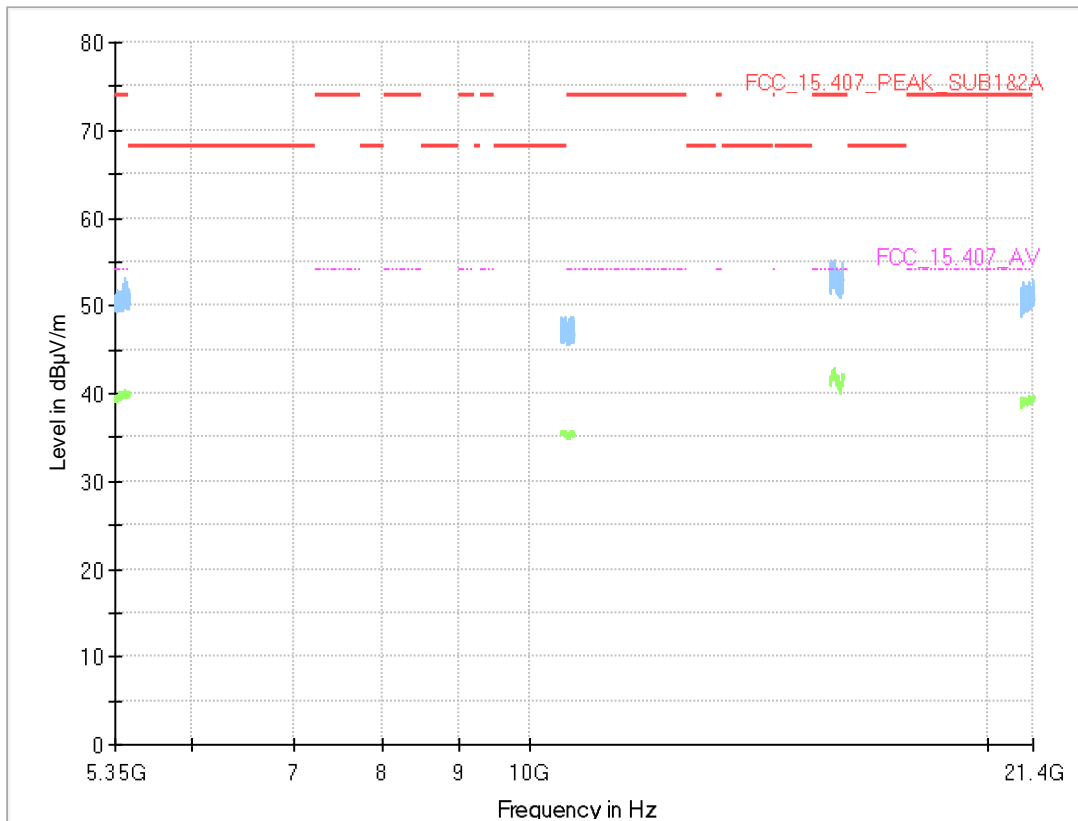


Final Result

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)
5452.240	---	42.2	54.00	11.76	1000.0	1000.000	150.0	V	98.0	-11.0	14.4
5452.240	55.1	---	74.00	18.92	1000.0	1000.000	150.0	V	98.0	-11.0	14.4
5468.800	---	46.0	---	---	1000.0	1000.000	150.0	V	11.0	99.0	14.5
5468.800	59.1	---	68.20	9.15	1000.0	1000.000	150.0	V	11.0	99.0	14.5

**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

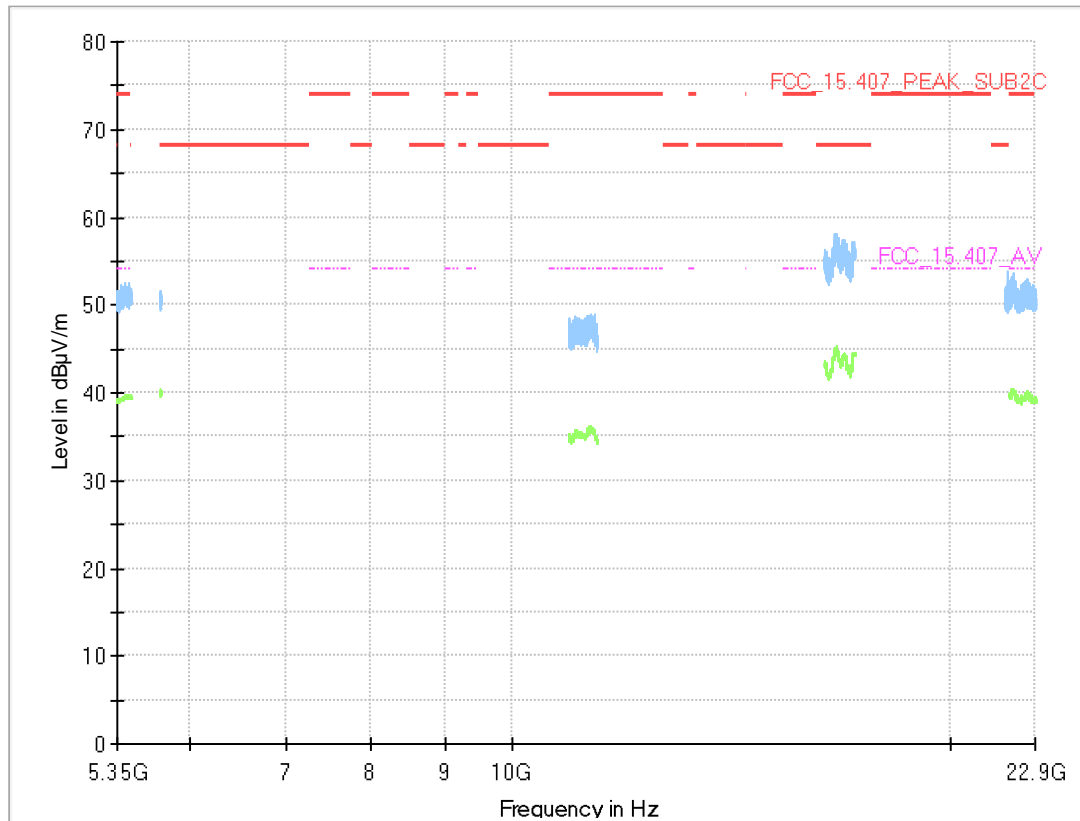
Radio Technology = WLAN a DIVERSITY, Operating Frequency = low,
Measurement range = 1GHz - 26GHz, Subband = U-NII-2A
(S05_AH03)



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)
---	---	---	---	---	---	---	---	---	---	---	---

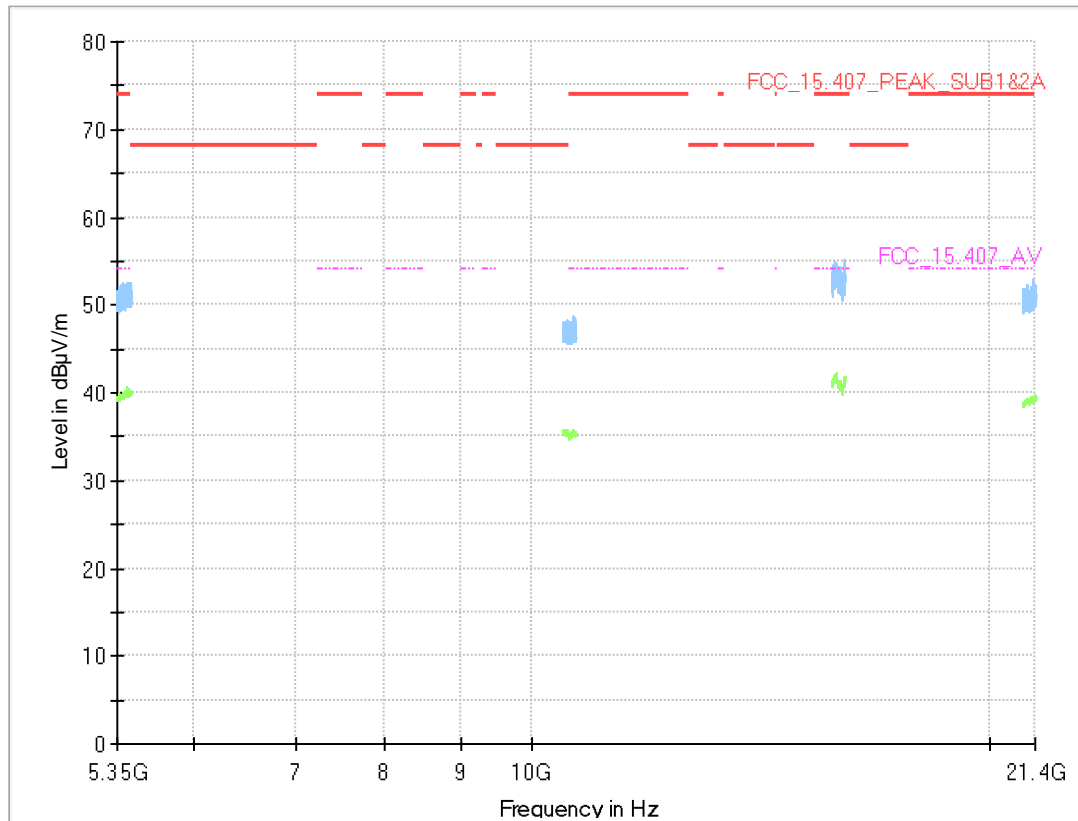
Radio Technology = WLAN a DIVERSITY, Operating Frequency = mid,
 Measurement range = 1GHz - 26GHz, Subband = U-NII-2C
 (S05_AH03)



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)
---	---	---	---	---	---	---	---	---	---	---	---

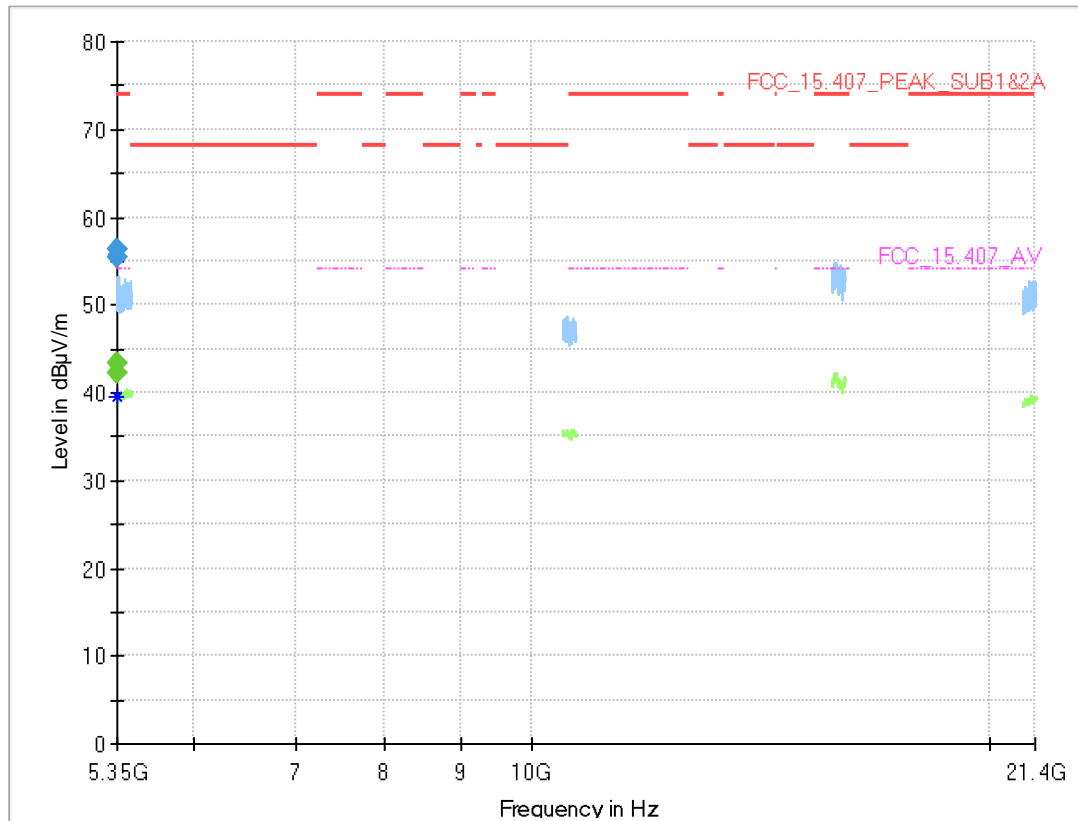
Radio Technology = WLAN a DIVERSITY, Operating Frequency = mid,
 Measurement range = 1GHz - 26GHz, Subband = U-NII-2A
 (S05_AH03)



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)
---	---	---	---	---	---	---	---	---	---	---	---

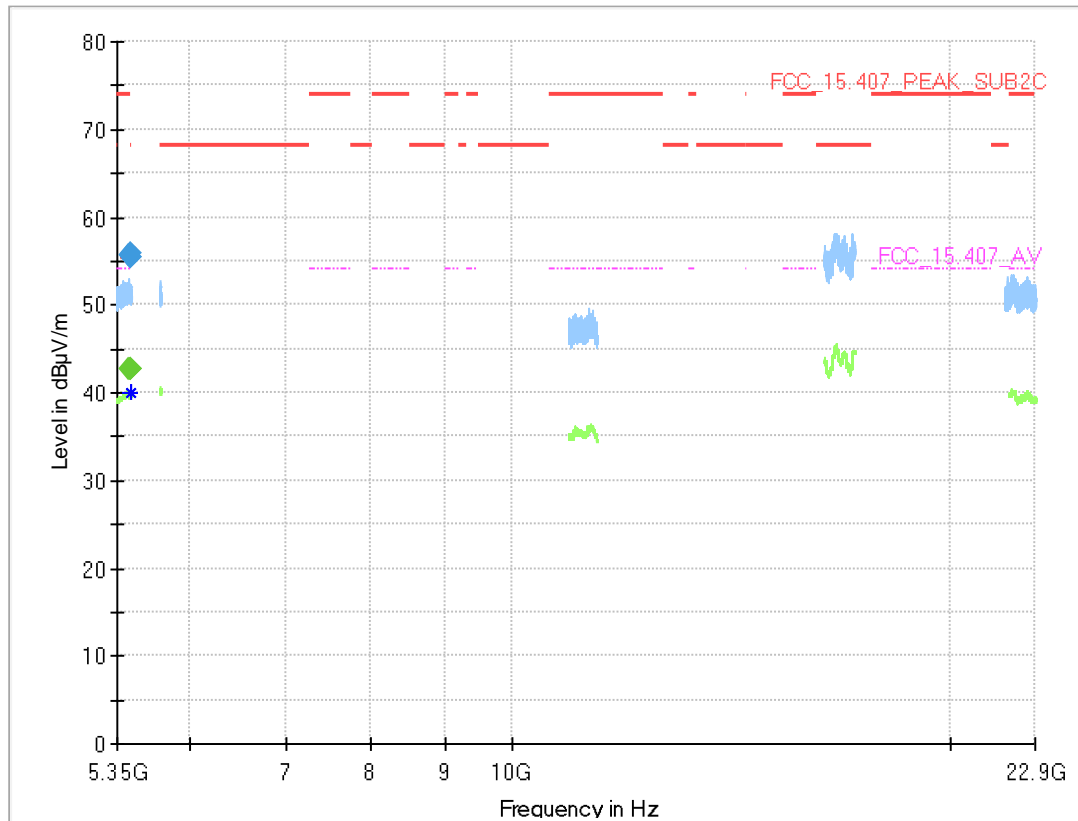
Radio Technology = WLAN a DIVERSITY, Operating Frequency = high,
 Measurement range = 1GHz - 26GHz, Subband = U-NII-2A
 (S05_AH03)



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)
5350.770	---	42.2	54.00	11.85	1000.0	1000.000	150.0	H	-187.0	105.0	14.1
5350.770	55.3	---	74.00	18.65	1000.0	1000.000	150.0	H	-187.0	105.0	14.1
5351.980	---	43.3	54.00	10.67	1000.0	1000.000	150.0	V	3.0	98.0	14.1
5351.980	56.3	---	74.00	17.70	1000.0	1000.000	150.0	V	3.0	98.0	14.1

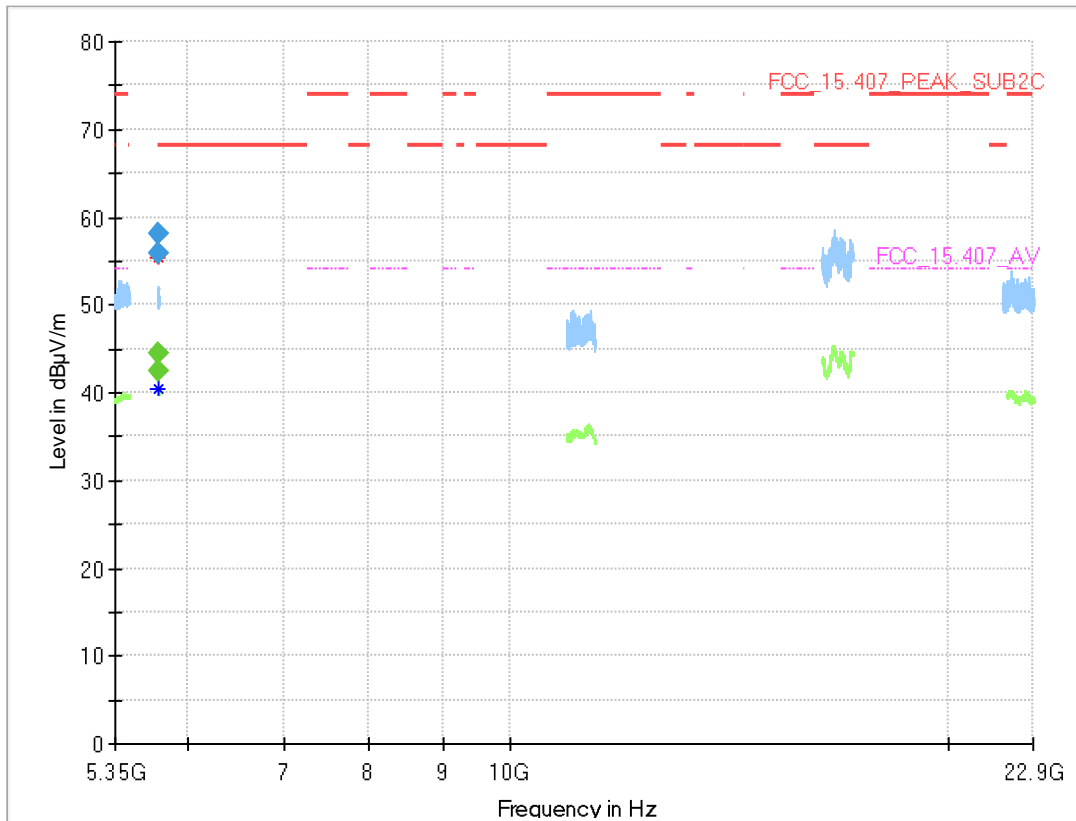
Radio Technology = WLAN a DIVERSITY, Operating Frequency = low,
 Measurement range = 1GHz - 26GHz, Subband = U-NII-2C
 (S05_AH03)



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)
5459.200	---	42.6	54.00	11.38	1000.0	1000.000	150.0	V	137.0	82.0	14.5
5459.200	55.6	---	74.00	18.42	1000.0	1000.000	150.0	V	137.0	82.0	14.5
5459.440	---	42.6	54.00	11.39	1000.0	1000.000	150.0	H	142.0	-15.0	14.5
5459.440	55.5	---	74.00	18.53	1000.0	1000.000	150.0	H	142.0	-15.0	14.5
5468.560	---	42.7	---	---	1000.0	1000.000	150.0	V	-177.0	-3.0	14.5
5468.560	55.3	---	68.20	12.86	1000.0	1000.000	150.0	V	-177.0	-3.0	14.5
5469.640	---	42.6	---	---	1000.0	1000.000	150.0	V	-83.0	-1.0	14.4
5469.640	55.9	---	68.20	12.32	1000.0	1000.000	150.0	V	-83.0	-1.0	14.4

Radio Technology = WLAN a DIVERSITY, Operating Frequency = high, Measurement range = 1GHz - 26GHz, Subband = U-NII-2C (S05_AH03)



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)
5726.450	---	44.5	---	---	1000.0	1000.000	150.0	H	6.0	100.0	14.2
5726.450	58.2	---	68.20	10.03	1000.0	1000.000	150.0	H	6.0	100.0	14.2
5726.850	---	42.5	---	---	1000.0	1000.000	150.0	H	90.0	85.0	14.2
5726.850	55.8	---	68.20	12.44	1000.0	1000.000	150.0	H	90.0	85.0	14.2

5.6.5 TEST EQUIPMENT USED

- Radiated Emissions

5.7 BAND EDGE

Standard **FCC Part 15 Subpart E**

The test was performed according to:

ANSI C63.10, chapter 6.6.5

5.7.1 TEST DESCRIPTION

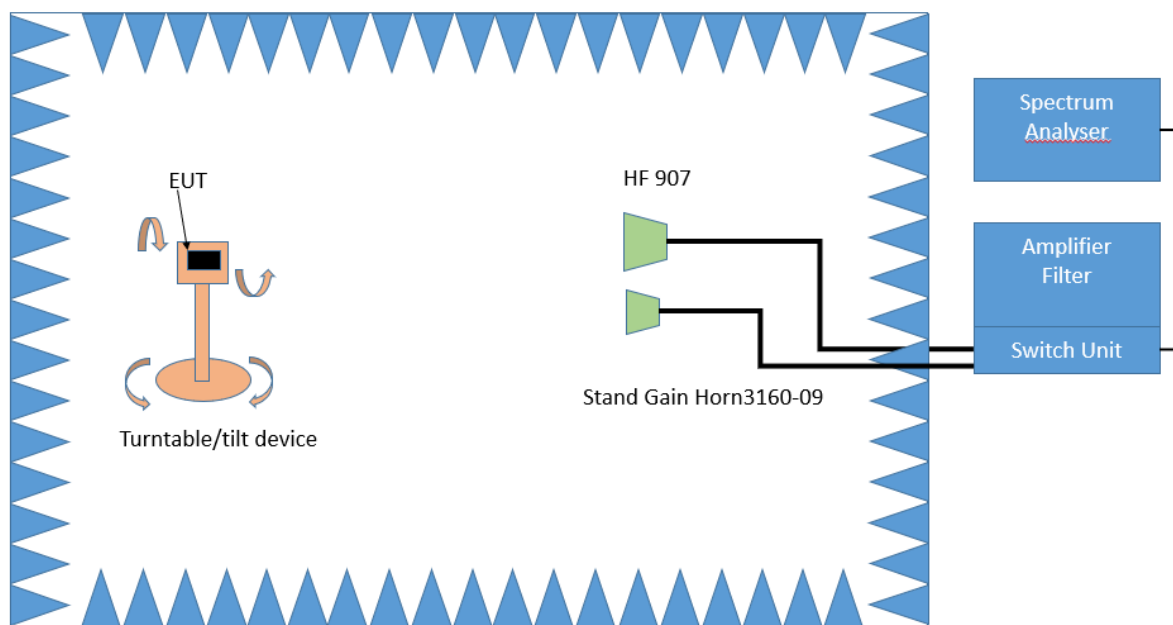
The test set-up was made in accordance to the general provisions of ANSI C63.10 in a typical installation configuration. The measurements were performed according the following sub-chapter of ANSI C63.10:

- Chapter 6.10.5

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 (procedure according ANSI C63.10, chapter 6.6.5).

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

5.7.2 TEST REQUIREMENTS / LIMITS

A) FCC

FCC Part 15 Subpart E, §15.407 (b)(1)

For transmitters operating in the 5150–5250 MHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5150–5350 MHz.

FCC Part 15 Subpart E, §15.407 (b)(2)

For transmitters operating in the 5250–5350 MHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5150–5350 MHz.

FCC Part 15 Subpart E, §15.407 (b)(3)

For transmitters operating in the 5470–5725 MHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5470–5725 MHz.

FCC Part 15 Subpart E, §15.407 (b)(4)

For transmitters operating in the 5725–5850 MHz band:

Limit: –27 dBm/MHz at 75 MHz or more above or below the band edge
increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge
increasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edge
increasing linearly to 27 dBm/MHz at the band edge.

FCC Part 15 Subpart E, §15.407 (b) (5)

For transmitters operating within the 5.925-7.125 GHz band:

Limit: –27 dBm/MHz EIRP outside of the band 5.925-7.125 GHz.

FCC Part 15 Subpart E, §15.407 (b) (6)

For transmitters operating within the 5.925-7.125 GHz bands:

Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

B) IC

Different frequency bands and limits apply, as compared to the FCC requirements.

RSS-247, 6.2.1.2, Emissions outside the band 5150-5250 MHz, indoor operation only:

Limit: –27 dBm/MHz EIRP outside of the band 5150–5250 MHz.

RSS-247, 6.2.2.2, Emissions outside the band 5250-5350 MHz:

Limit: –27 dBm/MHz EIRP outside of the band 5250–5350 MHz.

RSS-247, 6.2.3.2, Emissions outside the bands 5470-5600 MHz and 5650-5725 MHz:
 Limit: -27 dBm/MHz EIRP outside of the band 5470-5725 MHz.

However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p.at 5850 MHz instead of 5725 MHz.

Note: No operation is permitted for the frequency range 5600-5650 MHz.

RSS-247, 6.2.4.2, Emissions outside the band 5725-5850 MHz:

- a. 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges;
- b. 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- c. 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- d. -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

C) FCC & IC

For band edges connected to a restricted band, the limits are specified in Section 15.209(a)

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

Frequency in MHz	Limit ($\mu\text{V}/\text{m}$)	Measurement distance (m)	Limits ($\text{dB}\mu\text{V}/\text{m}$)
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 ($\mu\text{V}/\text{m}$)	Measurement distance (m)	Limits ($\text{dB}\mu\text{V}/\text{m}$)
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: $\text{Limit (dB}\mu\text{V}/\text{m)} = 20 \log (\text{Limit } (\mu\text{V}/\text{m})/1\mu\text{V}/\text{m})$

5.7.3 TEST PROTOCOL

Ambient temperature: 22 – 26 °C
 Air Pressure: 991 – 1023 hPa
 Humidity: 37 – 57 %

Conducted power settings for antenna gain ≤ 8.0 dBi (see chapter 4.6)

WLAN a-Mode; 20 MHz; 6 Mbit/s, DIVERSITY
 Applied duty cycle correction (AV): 0.8 dB

U-NII-Sub-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detec-tor	RBW [kHz]	Limit [dBμV /m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	58.8	PEAK	1000	74.0	15.2	BE-RB	FCC&IC
	64	5320	5350.0	45.8	AV	1000	54.0	8.2	BE-RB	FCC&IC
2C	100	5500	5460.0	58.3	PEAK	1000	74.0	15.7	BE-RB	FCC&IC
	100	5500	5460.0	45.3	AV	1000	54.0	8.7	BE-RB	FCC&IC
	100	5500	5470.0	58.4	PEAK	1000	68.2	9.8	BE-UE	FCC&IC
	140	5700	5725.0	61.1	PEAK	1000	68.2	7.1	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS 0; SISO
 Applied duty cycle correction (AV): 1.3 dB

U-NII-Sub-band	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detec-tor	RBW [kHz]	Limit [dBμV /m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	52.4	PEAK	1000	74.0	21.6	BE-RB	FCC&IC
	62	5310	5350.0	46.4	AV	1000	54.0	7.6	BE-RB	FCC&IC
2C	102	5510	5460.0	59.0	PEAK	1000	74.0	15.0	BE-RB	FCC&IC
	102	5510	5460.0	45.7	AV	1000	54.0	8.3	BE-RB	FCC&IC
	102	5510	5470.0	63.2	PEAK	1000	68.2	5.0	BE-UE	FCC&IC
	134	5670	5725.0	68.0	PEAK	1000	68.2	0.2	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS 0; SISO
 Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detec-tor	RBW [kHz]	Limit [dBμV /m]	Margin [dB]	Limit Type	FCC /IC?
	134	5670	5725.0	65.5	PEAK	1000	68.2	2.7	BE-UE	FCC&IC

WLAN ac-Mode; 40 MHz; MCS 0; SISO
 Applied duty cycle correction (AV): 0.6 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detec-tor	RBW [kHz]	Limit [dBμV /m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	59.3	PEAK	1000	74.0	14.7	BE-RB	FCC&IC
	62	5310	5350.0	46.4	AV	1000	54.0	7.6	BE-RB	FCC&IC
2C	102	5510	5460.0	60.6	PEAK	1000	74.0	13.4	BE-RB	FCC&IC
	102	5510	5460.0	46.5	AV	1000	54.0	7.5	BE-RB	FCC&IC
	102	5510	5470.0	64.3	PEAK	1000	68.2	3.9	BE-UE	FCC&IC
	134	5670	5725.0	63.8	PEAK	1000	68.2	4.4	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
	134	5670	5725.0	59.5	PEAK	1000	68.2	8.7	BE-UE	FCC&IC

WLAN n-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	56.5	PEAK	1000	74.0	17.5	BE-RB	FCC&IC
	64	5320	5350.0	42.8	AV	1000	54.0	11.2	BE-RB	FCC&IC
2C	100	5500	5460.0	58.5	PEAK	1000	74.0	15.5	BE-RB	FCC&IC
	100	5500	5460.0	45.3	AV	1000	54.0	8.7	BE-RB	FCC&IC
	100	5500	5470.0	59.1	PEAK	1000	68.2	9.1	BE-UE	FCC&IC
	140	5700	5725.0	45.5	PEAK	1000	68.2	22.7	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 1.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	62.2	PEAK	1000	74.0	11.8	BE-RB	FCC&IC
	62	5310	5350.0	49.5	AV	1000	54.0	4.5	BE-RB	FCC&IC
2C	102	5510	5460.0	60.3	PEAK	1000	74.0	13.7	BE-RB	FCC&IC
	102	5510	5460.0	48.5	AV	1000	54.0	5.5	BE-RB	FCC&IC
	102	5510	5470.0	66.2	PEAK	1000	68.2	2.0	BE-UE	FCC&IC
	134	5670	5725.0	59.5	PEAK	1000	68.2	8.7	BE-UE	FCC&IC

WLAN ac-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	57.2	PEAK	1000	74.0	16.8	BE-RB	FCC&IC
	64	5320	5350.0	44.1	AV	1000	54.0	9.9	BE-RB	FCC&IC
2C	100	5500	5460.0	58.3	PEAK	1000	74.0	15.7	BE-RB	FCC&IC
	100	5500	5460.0	44.5	AV	1000	54.0	9.5	BE-RB	FCC&IC
	100	5500	5470.0	59.5	PEAK	1000	68.2	8.7	BE-UE	FCC&IC
	140	5700	5725.0	59.2	PEAK	1000	68.2	9.0	BE-UE	FCC&IC

WLAN ax-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	59.7	PEAK	1000	74.0	14.3	BE-RB	FCC&IC
	64	5320	5350.0	46.7	AV	1000	54.0	7.3	BE-RB	FCC&IC
2C	100	5500	5460.0	57.1	PEAK	1000	74.0	16.9	BE-RB	FCC&IC
	100	5500	5460.0	45.5	AV	1000	54.0	8.5	BE-RB	FCC&IC
	100	5500	5470.0	57.0	PEAK	1000	74.0	17.0	BE-UE	FCC&IC
	140	5700	5725.0	62.3	PEAK	1000	68.2	5.9	BE-UE	FCC&IC

WLAN ac-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2C	134	5670	5725.0	59.2	PEAK	1000	68.2	9.0	BE-UE	FCC&IC

Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi (see chapter 4.6)

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	63.9	PEAK	1000	74.0	10.1	BE-UE	FCC&IC
	64	5320	5350.0	45.2	AV	1000	54.0	8.8	BE-UE	FCC&IC
2C	100	5500	5460.0	55.1	PEAK	1000	74.0	18.9	BE-UE	FCC&IC
	100	5500	5460.0	42.3	AV	1000	54.0	11.7	BE-UE	FCC&IC
	100	5500	5470.0	59.1	PEAK	1000	68.2	9.1	BE-UE	FCC&IC
	140	5700	5725.0	65.7	PEAK	1000	68.2	2.5	BE-UE	FCC&IC

WLAN n-Mode; 20 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	58.7	PEAK	1000	74.0	15.3	BE-UE	FCC&IC
	64	5320	5350.0	46.8	AV	1000	54.0	7.2	BE-UE	FCC&IC
2C	100	5500	5460.0	57.2	PEAK	1000	74.0	16.8	BE-UE	FCC&IC
	100	5500	5460.0	45.7	AV	1000	54.0	8.3	BE-UE	FCC&IC
	100	5500	5470.0	60.2	PEAK	1000	68.2	8.0	BE-UE	FCC&IC
	140	5700	5725.0	65.2	PEAK	1000	68.2	3.0	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	65.0	PEAK	1000	74.0	9.0	BE-RB	FCC&IC
	62	5310	5350.0	50.7	AV	1000	54.0	3.3	BE-RB	FCC&IC
2C	102	5510	5460.0	59.0	PEAK	1000	74.0	15.0	BE-RB	FCC&IC
	102	5510	5460.0	46.3	AV	1000	54.0	7.7	BE-RB	FCC&IC
	102	5510	5470.0	67.4	PEAK	1000	68.2	0.8	BE-UE	FCC&IC
	134	5670	5725.0	65.0	PEAK	1000	68.2	3.2	BE-UE	FCC&IC

WLAN ac-Mode; 20 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	67.3	PEAK	1000	74.0	6.7	BE-RB	FCC&IC
	64	5320	5350.0	49.3	AV	1000	54.0	4.8	BE-RB	FCC&IC
2C	100	5500	5460.0	57.8	PEAK	1000	74.0	16.2	BE-RB	FCC&IC
	100	5500	5460.0	45.4	AV	1000	54.0	8.6	BE-RB	FCC&IC
	100	5500	5470.0	60.4	PEAK	1000	68.2	7.8	BE-UE	FCC&IC
	140	5700	5725.0	66.6	PEAK	1000	68.2	1.6	BE-UE	FCC&IC

WLAN ac-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 0.6 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	64.1	PEAK	1000	74.0	9.9	BE-RB	FCC&IC
	62	5310	5350.0	51.5	AV	1000	54.0	2.5	BE-RB	FCC&IC
2C	102	5510	5460.0	59.8	PEAK	1000	74.0	14.2	BE-RB	FCC&IC
	102	5510	5460.0	47.6	AV	1000	54.0	6.4	BE-RB	FCC&IC
	102	5510	5470.0	67.0	PEAK	1000	68.2	1.2	BE-UE	FCC&IC
	134	5670	5725.0	67.0	PEAK	1000	68.2	1.3	BE-UE	FCC&IC

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	69.1	PEAK	1000	74.0	4.9	BE-UE	FCC&IC
	64	5320	5350.0	50.6	AV	1000	54.0	3.4	BE-UE	FCC&IC
2C	100	5500	5460.0	58.8	PEAK	1000	74.0	15.2	BE-UE	FCC&IC
	100	5500	5460.0	46.1	AV	1000	54.0	7.9	BE-UE	FCC&IC
	100	5500	5470.0	60.2	PEAK	1000	68.2	8.0	BE-UE	FCC&IC
	140	5700	5725.0	66.6	PEAK	1000	68.2	1.6	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS 0; SISO
Applied duty cycle correction (AV): 1.3 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	64.1	PEAK	1000	74.0	9.9	BE-UE	FCC&IC
	62	5310	5350.0	52.2	AV	1000	54.0	1.8	BE-UE	FCC&IC
2C	102	5510	5460.0	61.2	PEAK	1000	74.0	12.8	BE-UE	FCC&IC
	102	5510	5460.0	48.7	AV	1000	54.0	5.3	BE-UE	FCC&IC
	102	5510	5470.0	66.3	PEAK	1000	68.2	2.0	BE-UE	FCC&IC
	134	5670	5725.0	67.0	PEAK	1000	68.2	1.3	BE-UE	FCC&IC

WLAN ax-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	59.0	PEAK	1000	74.0	15.0	BE-RB	FCC&IC
	64	5320	5350.0	46.7	AV	1000	54.0	7.3	BE-RB	FCC&IC
2C	100	5500	5460.0	57.0	PEAK	1000	74.0	17.0	BE-RB	FCC&IC
	100	5500	5460.0	44.3	AV	1000	54.0	9.7	BE-RB	FCC&IC
	100	5500	5470.0	59.0	PEAK	1000	68.2	9.2	BE-UE	FCC&IC
	140	5700	5725.0	55.4	PEAK	1000	68.2	12.8	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	59.0	PEAK	1000	74.0	15.0	BE-RB	FCC&IC
	62	5310	5350.0	46.7	AV	1000	54.0	7.3	BE-RB	FCC&IC
2C	102	5510	5460.0	59.9	PEAK	1000	74.0	14.1	BE-RB	FCC&IC
	102	5510	5460.0	48.4	AV	1000	54.0	5.7	BE-RB	FCC&IC
	102	5510	5470.0	68.1	PEAK	1000	68.2	0.1	BE-UE	FCC&IC
	134	5670	5725.0	55.4	PEAK	1000	68.2	12.8	BE-UE	FCC&IC

WLAN n-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	59.9	PEAK	1000	74.0	14.1	BE-RB	FCC&IC
	64	5320	5350.0	45.9	AV	1000	54.0	8.1	BE-RB	FCC&IC
2C	100	5500	5460.0	55.4	PEAK	1000	74.0	18.6	BE-RB	FCC&IC
	100	5500	5460.0	42.5	AV	1000	54.0	11.5	BE-RB	FCC&IC
	100	5500	5470.0	57.9	PEAK	1000	68.2	10.3	BE-UE	FCC&IC
	140	5700	5725.0	55.4	PEAK	1000	68.2	12.8	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 1.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	59.0	PEAK	1000	74.0	15.0	BE-RB	FCC&IC
	62	5310	5350.0	47.9	AV	1000	54.0	6.1	BE-RB	FCC&IC
2C	102	5510	5460.0	59.1	PEAK	1000	74.0	14.9	BE-RB	FCC&IC
	102	5510	5460.0	48.6	AV	1000	54.0	5.4	BE-RB	FCC&IC
	102	5510	5470.0	66.7	PEAK	1000	68.2	1.5	BE-UE	FCC&IC
	134	5670	5725.0	55.4	PEAK	1000	68.2	12.8	BE-UE	FCC&IC

WLAN ac-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	58.6	PEAK	1000	74.0	15.4	BE-RB	FCC&IC
	64	5320	5350.0	46.8	AV	1000	54.0	7.2	BE-RB	FCC&IC
2C	100	5500	5460.0	58.1	PEAK	1000	74.0	15.9	BE-RB	FCC&IC
	100	5500	5460.0	45.8	AV	1000	54.0	8.2	BE-RB	FCC&IC
	100	5500	5470.0	62.0	PEAK	1000	68.2	6.2	BE-UE	FCC&IC
	140	5700	5725.0	55.4	PEAK	1000	68.2	12.8	BE-UE	FCC&IC

WLAN ac-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBµV/m]	Detector	RBW [kHz]	Limit [dBµV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	59.0	PEAK	1000	74.0	15.0	BE-RB	FCC&IC
	62	5310	5350.0	46.7	AV	1000	54.0	7.3	BE-RB	FCC&IC
2C	102	5510	5460.0	59.3	PEAK	1000	74.0	14.7	BE-RB	FCC&IC
	102	5510	5460.0	47.7	AV	1000	54.0	6.3	BE-RB	FCC&IC
	102	5510	5470.0	67.2	PEAK	1000	68.2	1.0	BE-UE	FCC&IC
	134	5670	5725.0	55.4	PEAK	1000	68.2	12.8	BE-UE	FCC&IC

Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi (see chapter 4.6)

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

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	58.8	PEAK	1000	74.0	15.2	BE-RB	FCC&IC
	64	5320	5350.0	46.0	AV	1000	54.0	8.1	BE-RB	FCC&IC
2C	100	5500	5460.0	56.9	PEAK	1000	74.0	17.1	BE-RB	FCC&IC
	100	5500	5460.0	44.4	AV	1000	54.0	9.6	BE-RB	FCC&IC
	100	5500	5470.0	59.8	PEAK	1000	68.2	8.4	BE-UE	FCC&IC
	140	5700	5725.0	58.0	PEAK	1000	68.2	10.2	BE-UE	FCC&IC

WLAN a-Mode; 20 MHz; 6 Mbit/s; DIVERSITY
Applied duty cycle correction (AV): 0.8 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	56.3	PEAK	1000	74.0	17.7	BE-RB	FCC&IC
	64	5320	5350.0	44.1	AV	1000	54.0	9.9	BE-RB	FCC&IC
2C	100	5500	5460.0	55.6	PEAK	1000	74.0	18.4	BE-RB	FCC&IC
	100	5500	5460.0	43.4	AV	1000	54.0	10.6	BE-RB	FCC&IC
	100	5500	5470.0	55.9	PEAK	1000	68.2	12.3	BE-UE	FCC&IC
	140	5700	5725.0	58.2	PEAK	1000	68.2	10.0	BE-UE	FCC&IC

WLAN ax-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	58.4	PEAK	1000	74.0	15.6	BE-RB	FCC&IC
	64	5320	5350.0	46.5	AV	1000	54.0	7.5	BE-RB	FCC&IC
2C	100	5500	5460.0	58.7	PEAK	1000	74.0	15.3	BE-RB	FCC&IC
	100	5500	5460.0	45.9	AV	1000	54.0	8.1	BE-RB	FCC&IC
	100	5500	5470.0	60.8	PEAK	1000	68.2	7.4	BE-UE	FCC&IC
	140	5700	5725.0	65.2	PEAK	1000	68.2	3.0	BE-UE	FCC&IC

WLAN ax-Mode; 40 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	64.8	PEAK	1000	74.0	9.2	BE-RB	FCC&IC
	62	5310	5350.0	51.6	AV	1000	54.0	2.4	BE-RB	FCC&IC
2C	102	5510	5460.0	58.5	PEAK	1000	74.0	15.5	BE-RB	FCC&IC
	102	5510	5460.0	46.1	AV	1000	54.0	7.9	BE-RB	FCC&IC
	102	5510	5470.0	62.9	PEAK	1000	68.2	5.3	BE-UE	FCC&IC
	134	5670	5725.0	61.3	PEAK	1000	68.2	6.9	BE-UE	FCC&IC

WLAN n-Mode; 20 MHz; MCS 0; MIMO
Applied duty cycle correction (AV): 0.5 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dBμV/m]	Detector	RBW [kHz]	Limit [dBμV/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	57.4	PEAK	1000	74.0	16.6	BE-RB	FCC&IC
	64	5320	5350.0	44.7	AV	1000	54.0	9.3	BE-RB	FCC&IC
2C	100	5500	5460.0	55.9	PEAK	1000	74.0	18.1	BE-RB	FCC&IC
	100	5500	5460.0	44.5	AV	1000	54.0	9.5	BE-RB	FCC&IC
	100	5500	5470.0	58.3	PEAK	1000	68.2	9.9	BE-UE	FCC&IC
	140	5700	5725.0	57.7	PEAK	1000	68.2	10.5	BE-UE	FCC&IC

WLAN n-Mode; 40 MHz; MCS 0; MIMO
 Applied duty cycle correction (AV): 1.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	63.7	PEAK	1000	74.0	10.3	BE-RB	FCC&IC
	62	5310	5350.0	52.3	AV	1000	54.0	1.7	BE-RB	FCC&IC
2C	102	5510	5460.0	58.9	PEAK	1000	74.0	15.1	BE-RB	FCC&IC
	102	5510	5460.0	47.4	AV	1000	54.0	6.6	BE-RB	FCC&IC
	102	5510	5470.0	63.6	PEAK	1000	68.2	4.6	BE-UE	FCC&IC
	134	5670	5725.0	57.2	PEAK	1000	68.2	11.0	BE-UE	FCC&IC

WLAN ac-Mode; 20 MHz; MCS 0; MIMO
 Applied duty cycle correction (AV): 0.7 dB

U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type	FCC /IC?
2A	64	5320	5350.0	59.6	PEAK	1000	74.0	14.4	BE-RB	FCC&IC
	64	5320	5350.0	46.8	AV	1000	54.0	7.2	BE-RB	FCC&IC
2C	100	5500	5460.0	57.2	PEAK	1000	74.0	16.8	BE-RB	FCC&IC
	100	5500	5460.0	45.9	AV	1000	54.0	8.1	BE-RB	FCC&IC
	100	5500	5470.0	59.3	PEAK	1000	68.2	8.9	BE-UE	FCC&IC
	140	5700	5725.0	63.1	PEAK	1000	68.2	5.1	BE-UE	FCC&IC

WLAN ac-Mode; 40 MHz; MCS 0; MIMO
 Applied duty cycle correction (AV): 0.5 dB

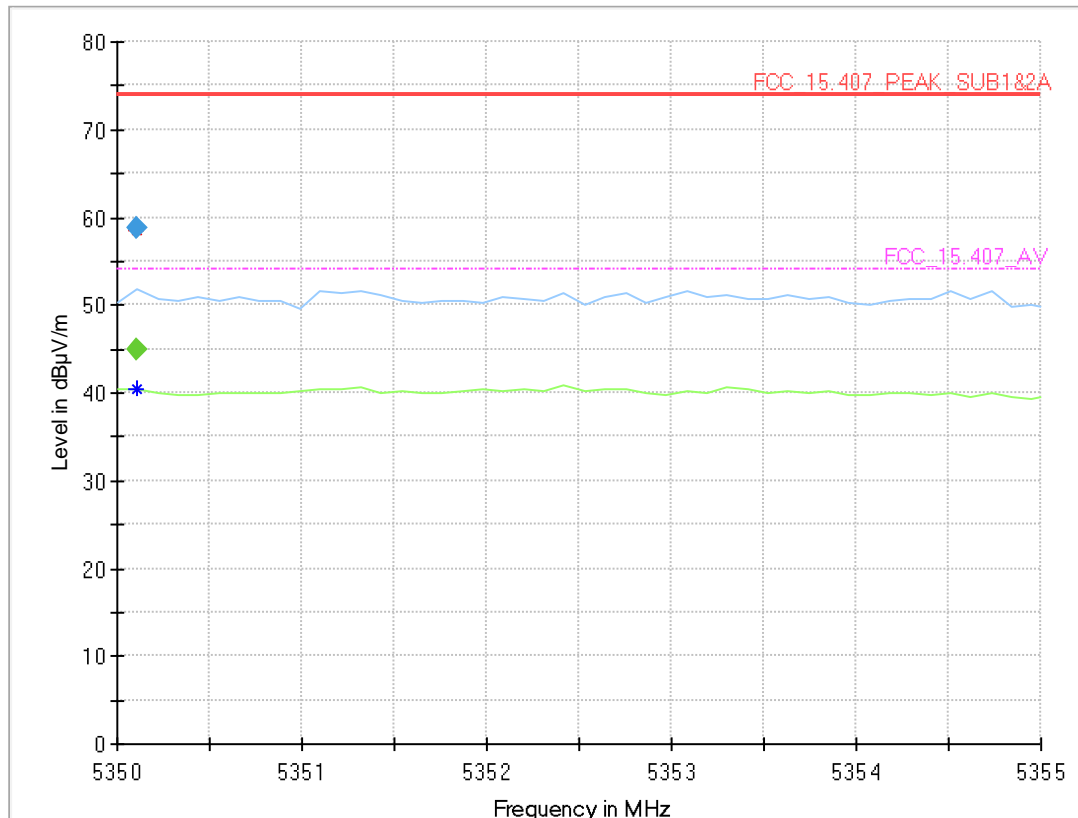
U-NII-Subband	Ch. No.	Ch. Center Freq. [MHz]	Band Edge Freq. [MHz]	Spurious Level [dB μ V/m]	Detector	RBW [kHz]	Limit [dB μ V/m]	Margin [dB]	Limit Type	FCC /IC?
2A	62	5310	5350.0	63.9	PEAK	1000	74.0	10.1	BE-RB	FCC&IC
	62	5310	5350.0	51.2	AV	1000	54.0	2.8	BE-RB	FCC&IC
2C	102	5510	5460.0	59.1	PEAK	1000	74.0	14.9	BE-RB	FCC&IC
	102	5510	5460.0	46.9	AV	1000	54.0	7.1	BE-RB	FCC&IC
	102	5510	5470.0	66.7	PEAK	1000	68.2	1.5	BE-UE	FCC&IC
	134	5670	5725.0	60.0	PEAK	1000	68.2	8.2	BE-UE	FCC&IC

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

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

Conducted power settings for antenna gain ≤ 8.0 dBi (see chapter 4.6)

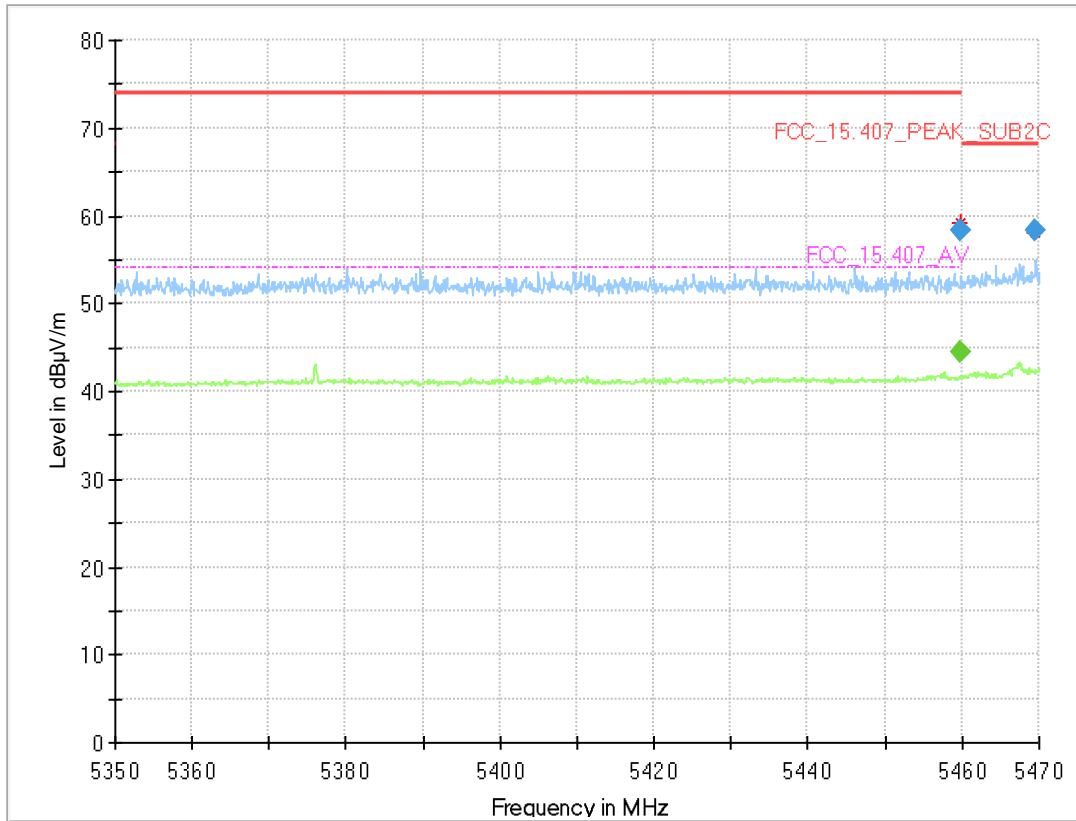
Radio Technology = WLAN a DIVERSITY, Operating Frequency = high, Subband = U-NII-2A (S04_AJ03)



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)
5350.110	---	44.9	54.00	9.10	1000.0	1000.000	150.0	H	-41.0	75.0	14.1
5350.110	58.8	---	74.00	15.15	1000.0	1000.000	150.0	H	-41.0	75.0	14.1

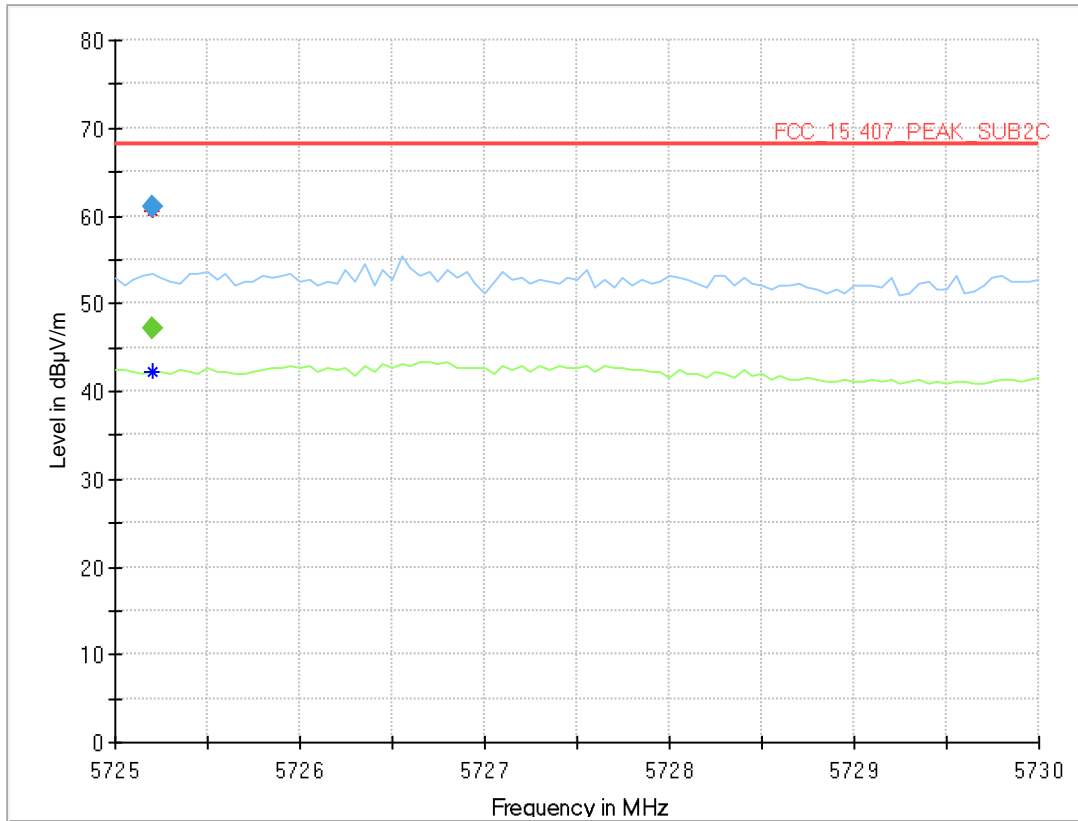
Radio Technology = WLAN a DIVERSITY, Operating Frequency = low, Subband = U-NII-2C (S04_AJ03)



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)
5459.670	---	44.4	54.00	9.59	1000.0	1000.000	150.0	H	136.0	101.0	14.5
5459.890	58.3	---	74.00	15.74	1000.0	1000.000	150.0	H	11.0	78.0	14.5
5469.600	58.4	---	68.20	9.83	1000.0	1000.000	150.0	V	53.0	7.0	14.4

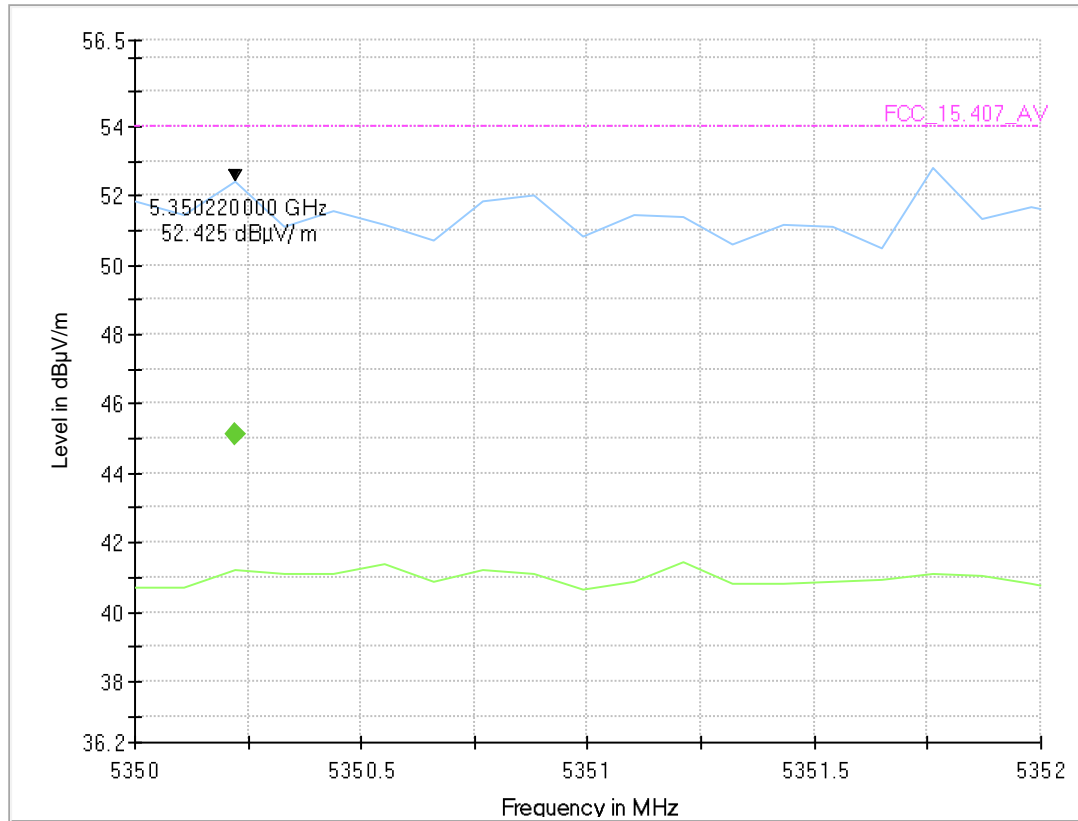
Radio Technology = WLAN a DIVERSITY, Operating Frequency = high, Subband = U-NII-2C (S04_AJ03)



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)
5725.200	---	47.2	---	---	1000.0	1000.000	150.0	H	-56.0	105.0	14.2
5725.200	61.1	---	68.20	7.12	1000.0	1000.000	150.0	H	-56.0	105.0	14.2

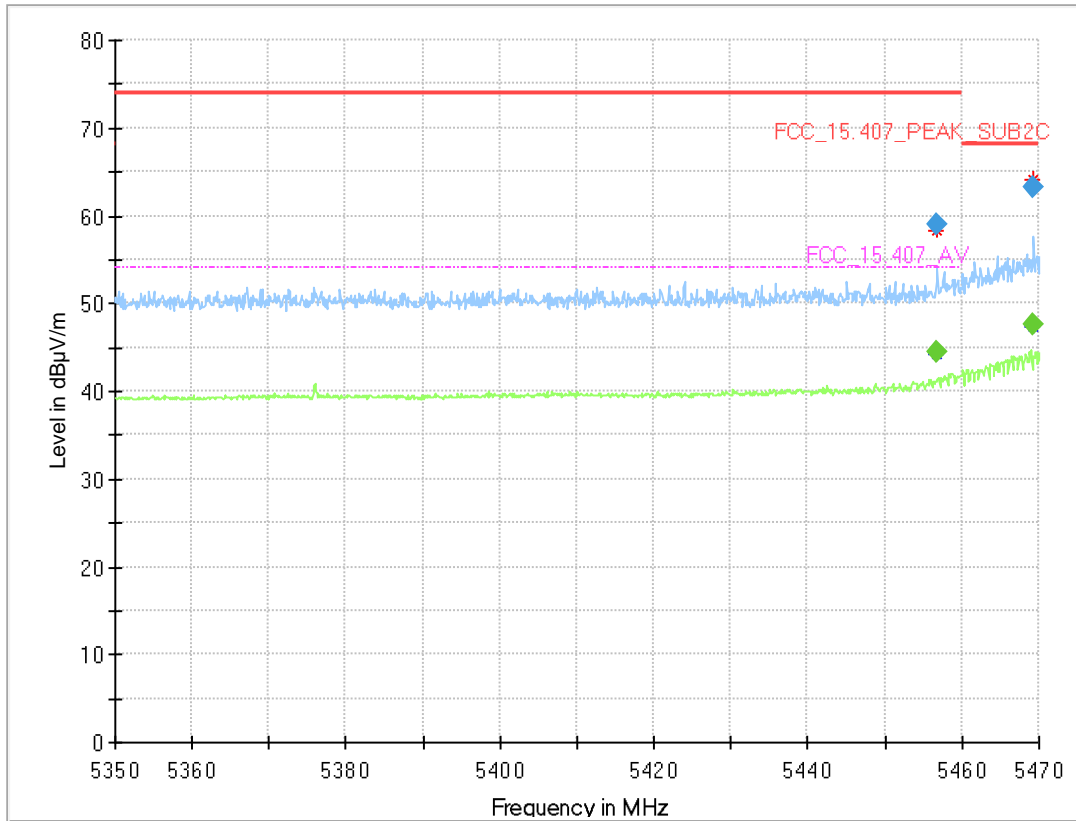
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S04_AJ03)



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)
5350.220	---	45.1	54.00	8.88	1000.0	1000.000	150.0	H	56.0	105.0	14.1
5350.220	58.8	---	74.00	15.17	1000.0	1000.000	150.0	H	56.0	105.0	14.1

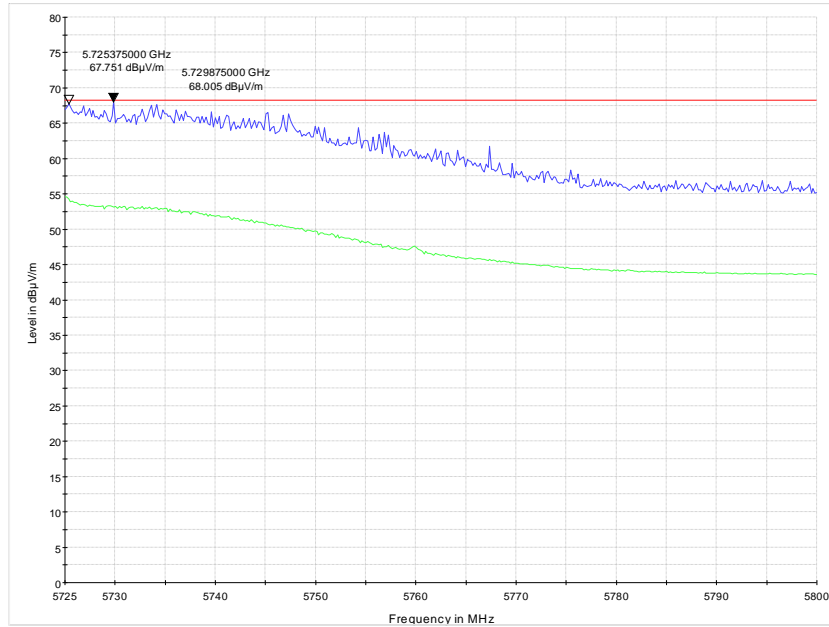
Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S04_AJ03)



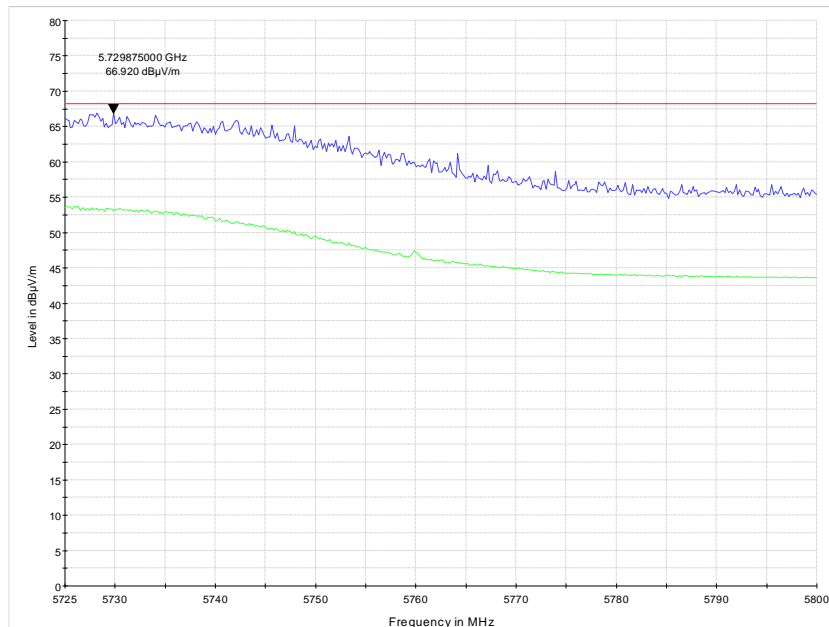
Final Result

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)
5456.700	---	44.4	54.00	9.55	1000.0	1000.000	150.0	H	44.0	96.0	14.5
5456.810	59.0	---	74.00	15.02	1000.0	1000.000	150.0	V	142.0	-15.0	14.5
5469.200	---	47.5	---	---	1000.0	1000.000	150.0	V	-191.0	-15.0	14.4
5469.300	63.2	---	68.20	4.97	1000.0	1000.000	150.0	H	51.0	105.0	14.4

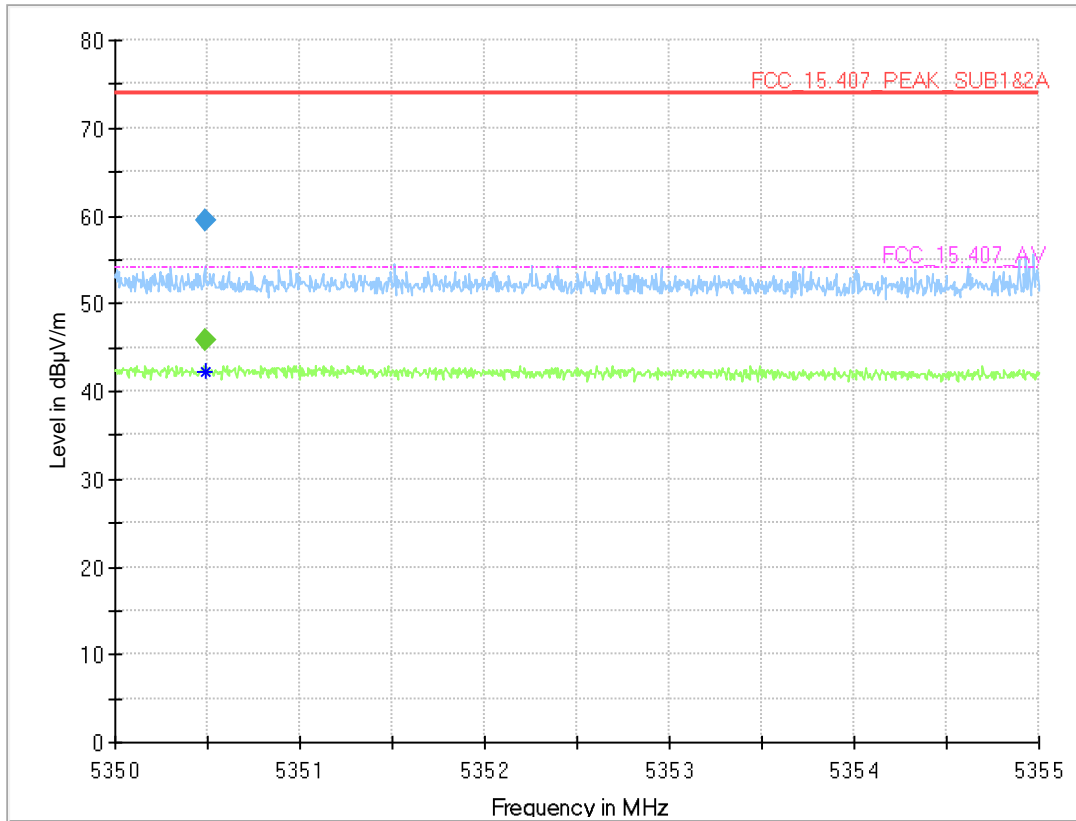
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S04_AJ03)



Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S04_AJ03)



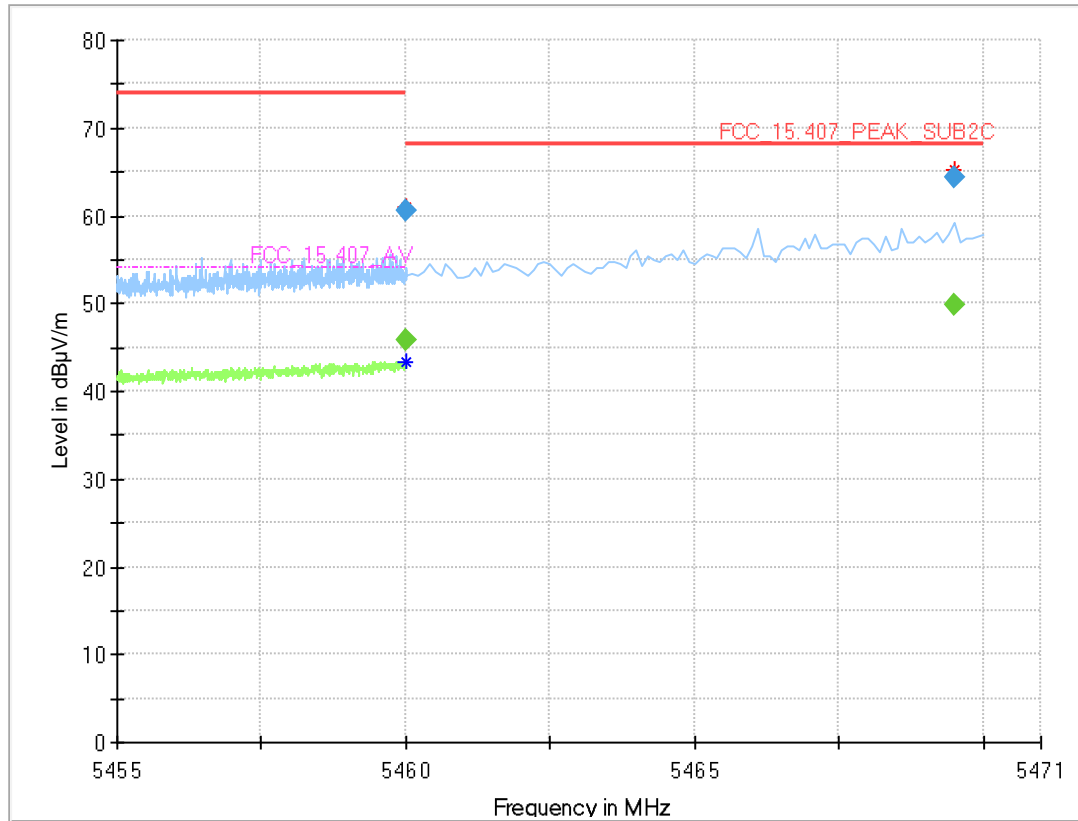
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S04_AJ03)



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)
5350.485	---	45.8	54.00	8.25	1000.0	1000.000	150.0	H	40.0	90.0	14.1
5350.485	59.3	---	74.00	14.67	1000.0	1000.000	150.0	H	40.0	90.0	14.1

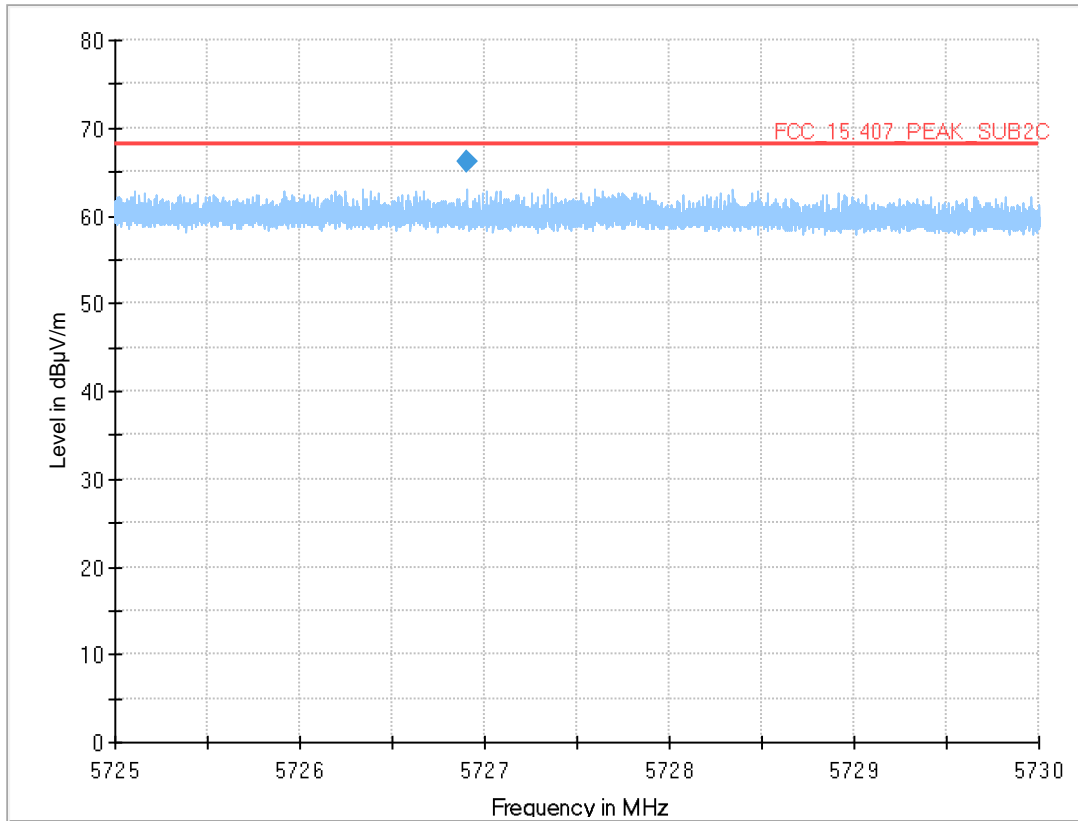
Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S04_AJ03)



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)
5460.000	---	45.9	54.00	8.13	1000.0	1000.000	150.0	V	-2.0	91.0	14.5
5460.000	60.6	---	74.00	13.44	1000.0	1000.000	150.0	V	-2.0	91.0	14.5
5469.500	---	49.9	---	---	1000.0	1000.000	150.0	V	-4.0	90.0	14.4
5469.500	64.3	---	68.20	3.89	1000.0	1000.000	150.0	V	-4.0	90.0	14.4

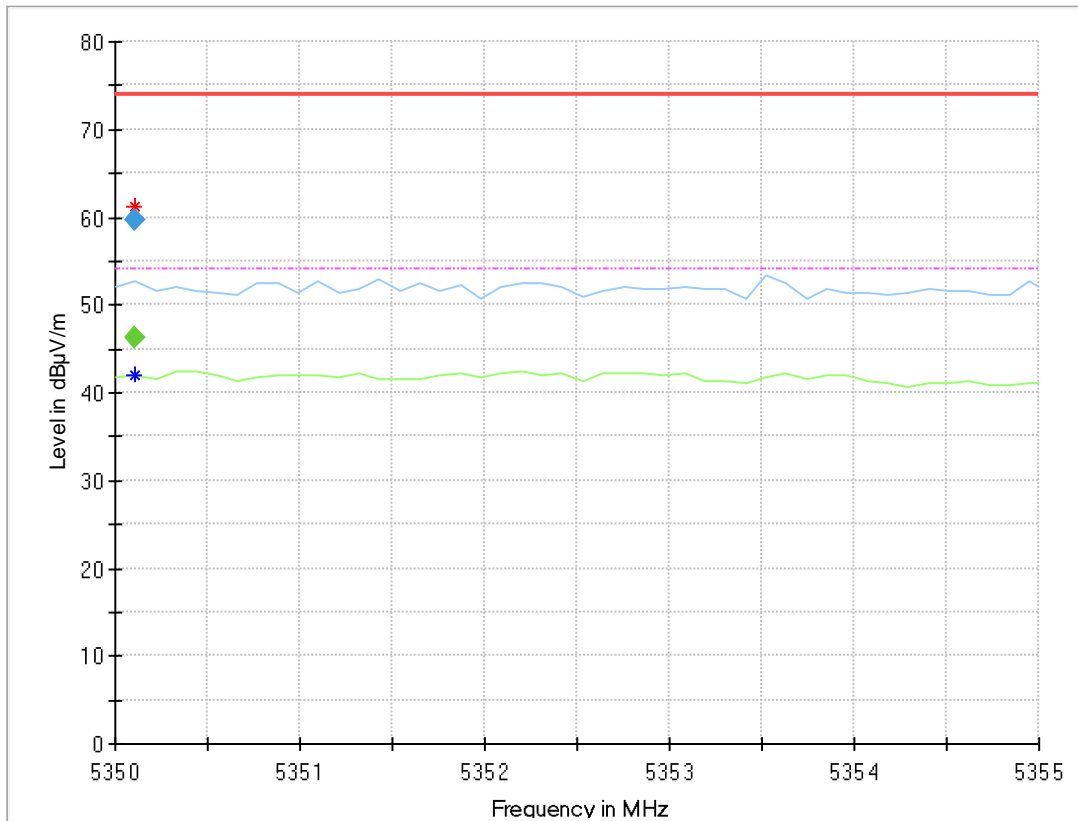
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S04_AJ03)



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)
5726.906	66.2	---	68.20	1.98	1000.0	1000.000	150.0	H	88.0	95.0	14.2

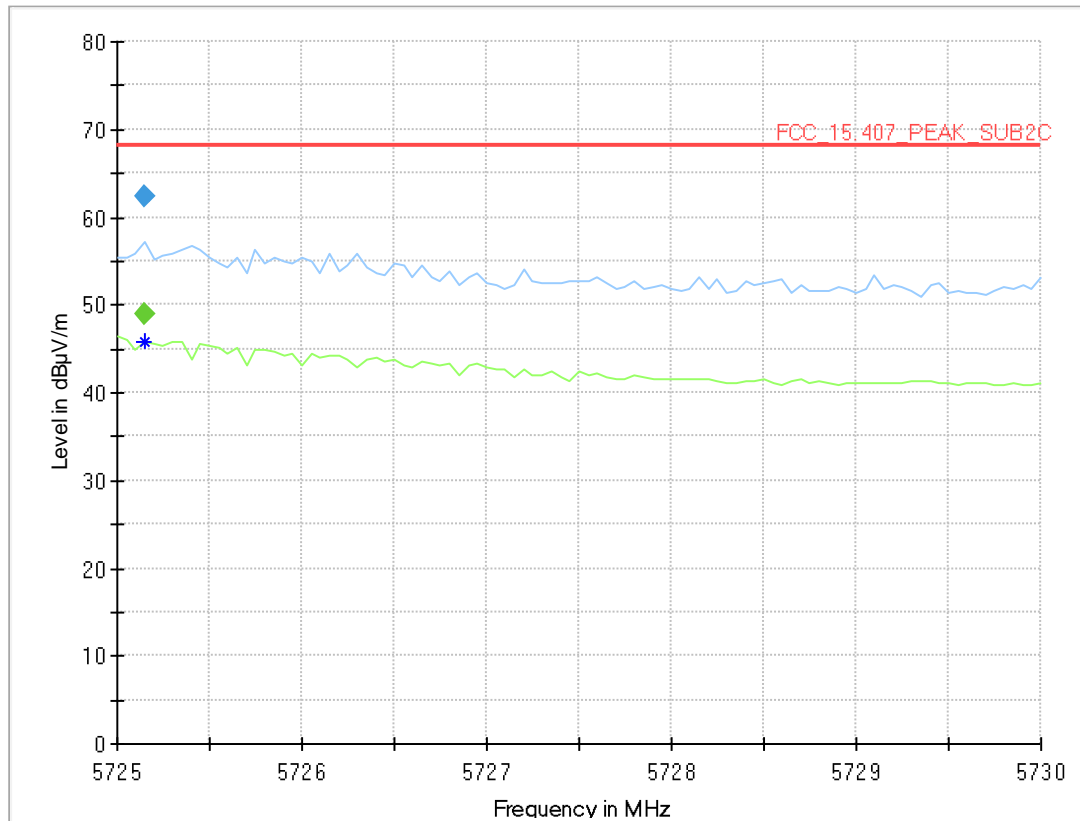
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high,
 Subband = U-NII-2A
 (S04_AJ03)



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)
5350.110	---	46.2	54.00	7.82	1000.0	1000.000	150.0	V	3.0	80.0	14.1
5350.110	59.7	---	74.00	14.31	1000.0	1000.000	150.0	V	3.0	80.0	14.1

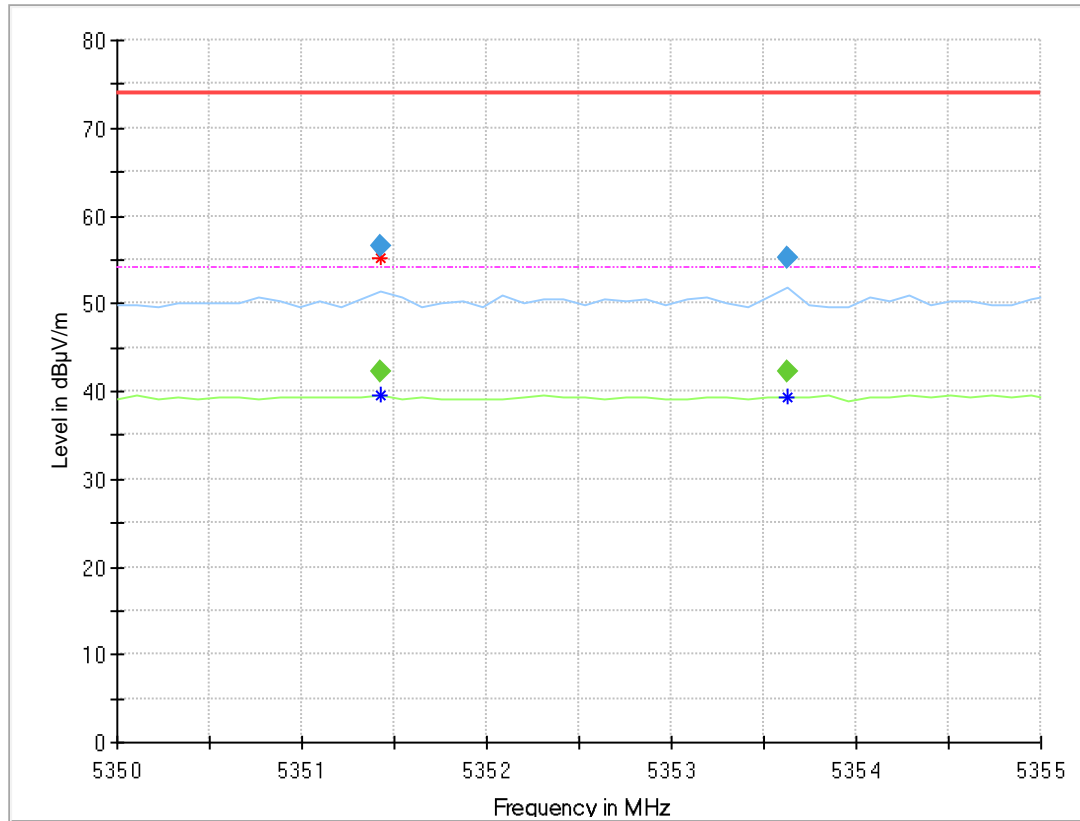
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high,
 Subband = U-NII-2C
 (S04_AJ03)



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)
5725.150	---	49.0	---	---	1000.0	1000.000	150.0	H	-56.0	92.0	14.2
5725.150	62.3	---	68.20	5.88	1000.0	1000.000	150.0	H	-56.0	92.0	14.2

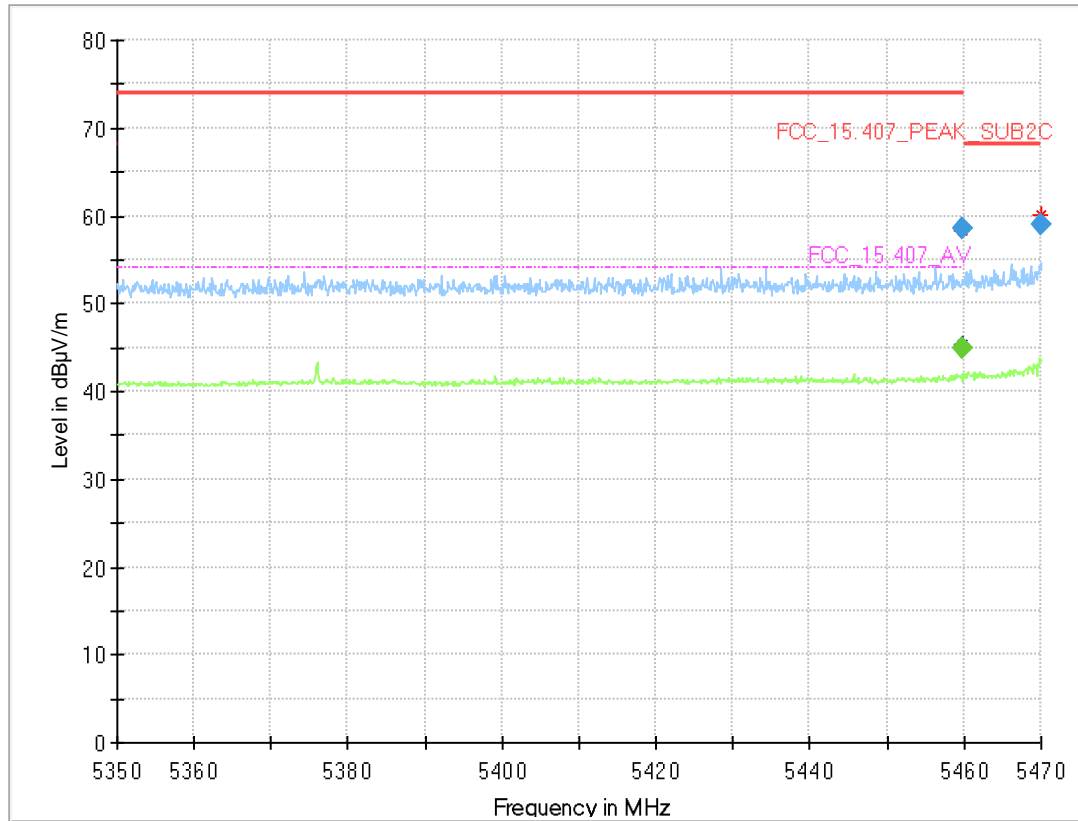
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S04_AJ03)



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)
5351.430	---	42.3	54.00	11.65	1000.0	1000.000	150.0	V	91.0	85.0	14.1
5351.430	56.5	---	74.00	17.52	1000.0	1000.000	150.0	V	91.0	85.0	14.1
5353.630	---	42.3	54.00	11.71	1000.0	1000.000	150.0	V	80.0	105.0	14.1
5353.630	55.2	---	74.00	18.75	1000.0	1000.000	150.0	V	80.0	105.0	14.1

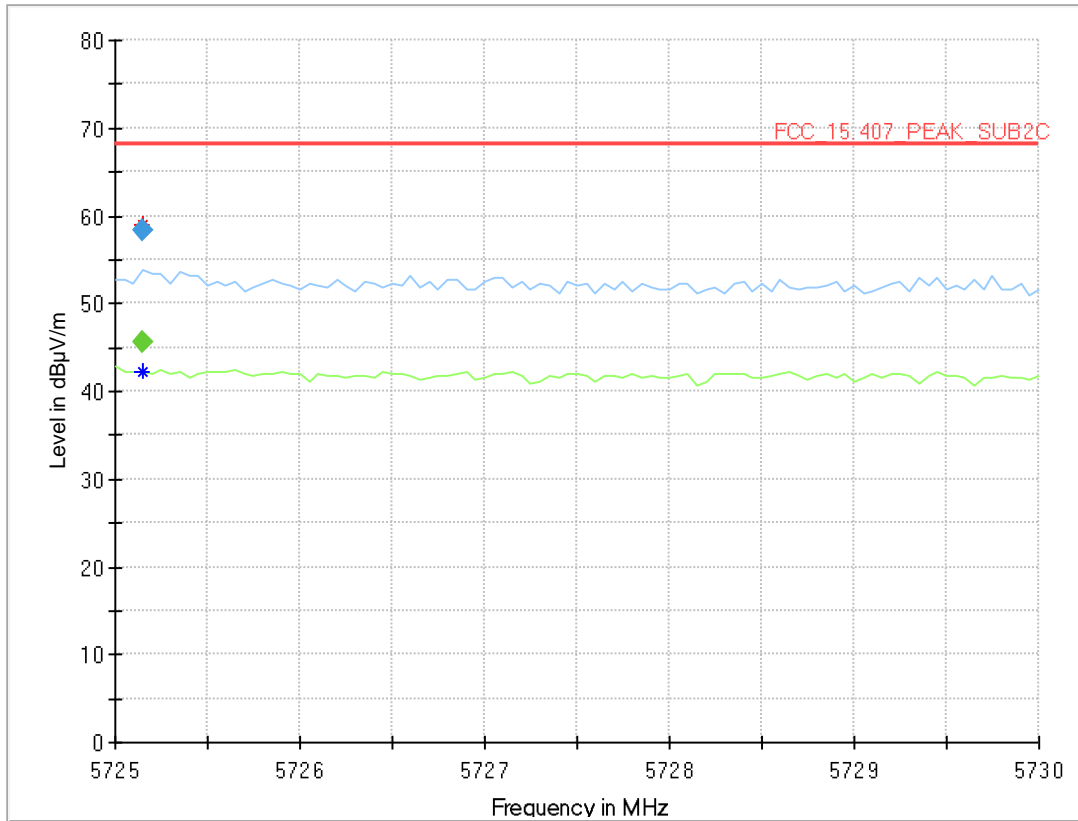
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S04_AJ03)



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)
5459.780	58.5	---	74.00	15.52	1000.0	1000.000	150.0	H	50.0	82.0	14.5
5459.890	---	44.8	54.00	9.17	1000.0	1000.000	150.0	H	52.0	78.0	14.5
5470.000	59.1	---	68.20	9.15	1000.0	1000.000	150.0	H	41.0	95.0	14.4

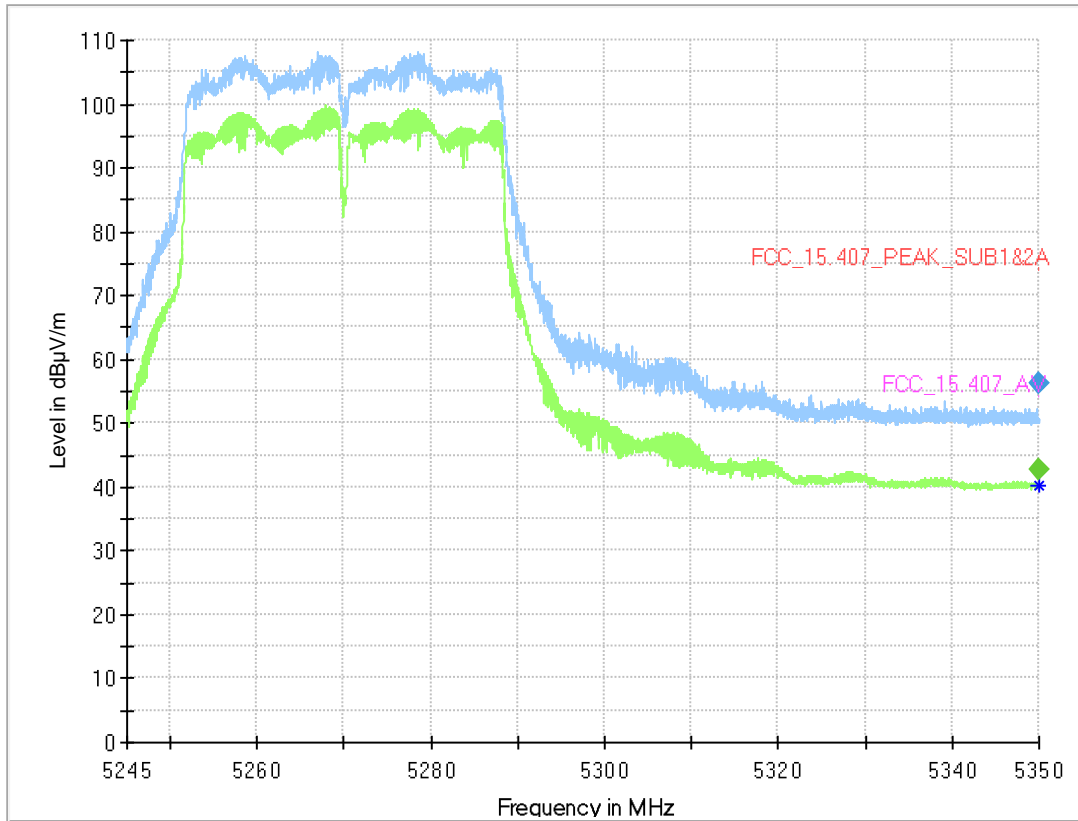
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S04_AJ03)



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)
5725.150	---	45.5	---	---	1000.0	1000.000	150.0	V	-89.0	0.0	14.2
5725.150	58.4	---	68.20	9.80	1000.0	1000.000	150.0	V	-89.0	0.0	14.2

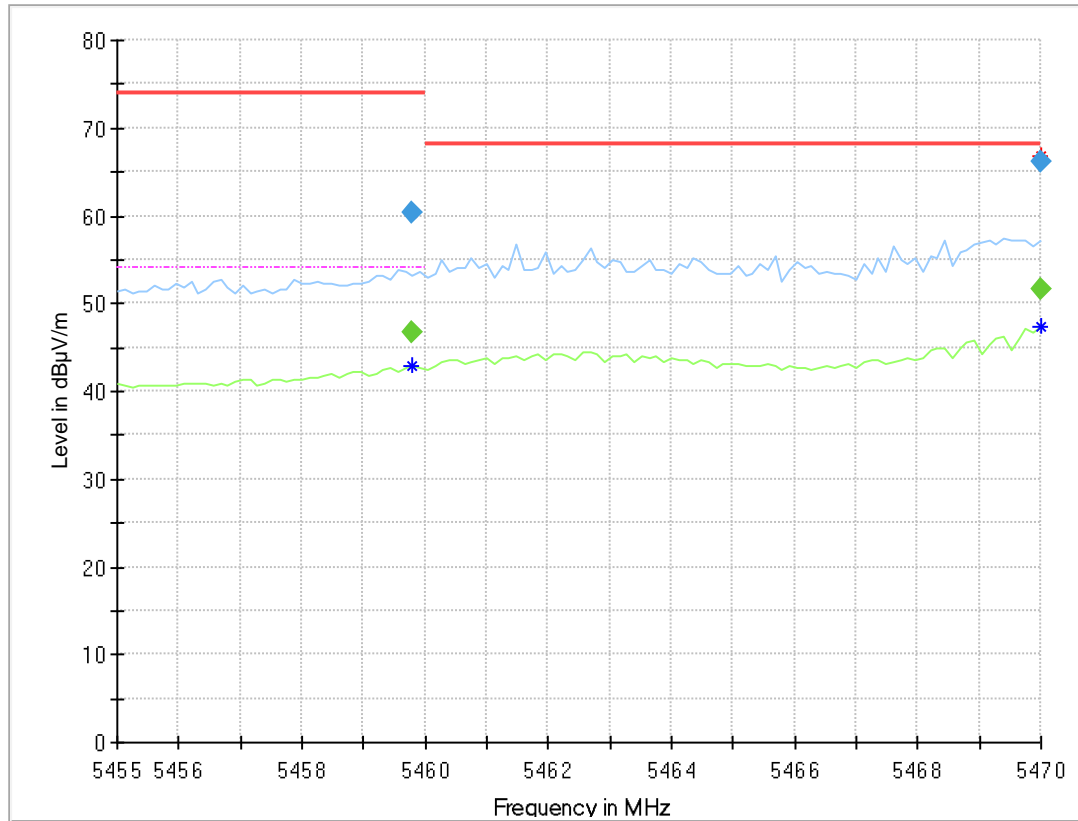
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S04_AJ03)



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)
5350.000	---	42.6	54.00	11.40	1000.0	1000.000	150.0	V	146.0	15.0	14.1
5350.000	56.2	---	74.00	17.77	1000.0	1000.000	150.0	V	146.0	15.0	14.1

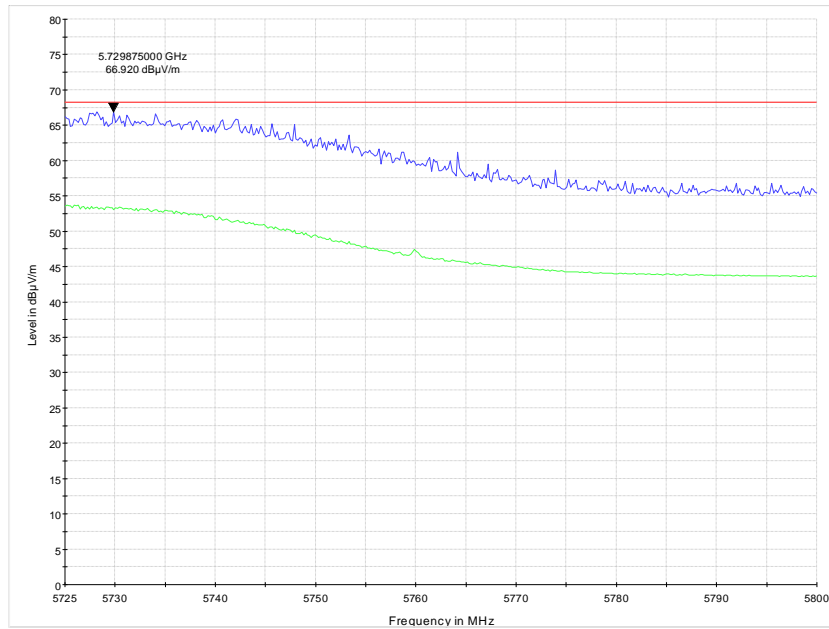
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S04_AJ03)



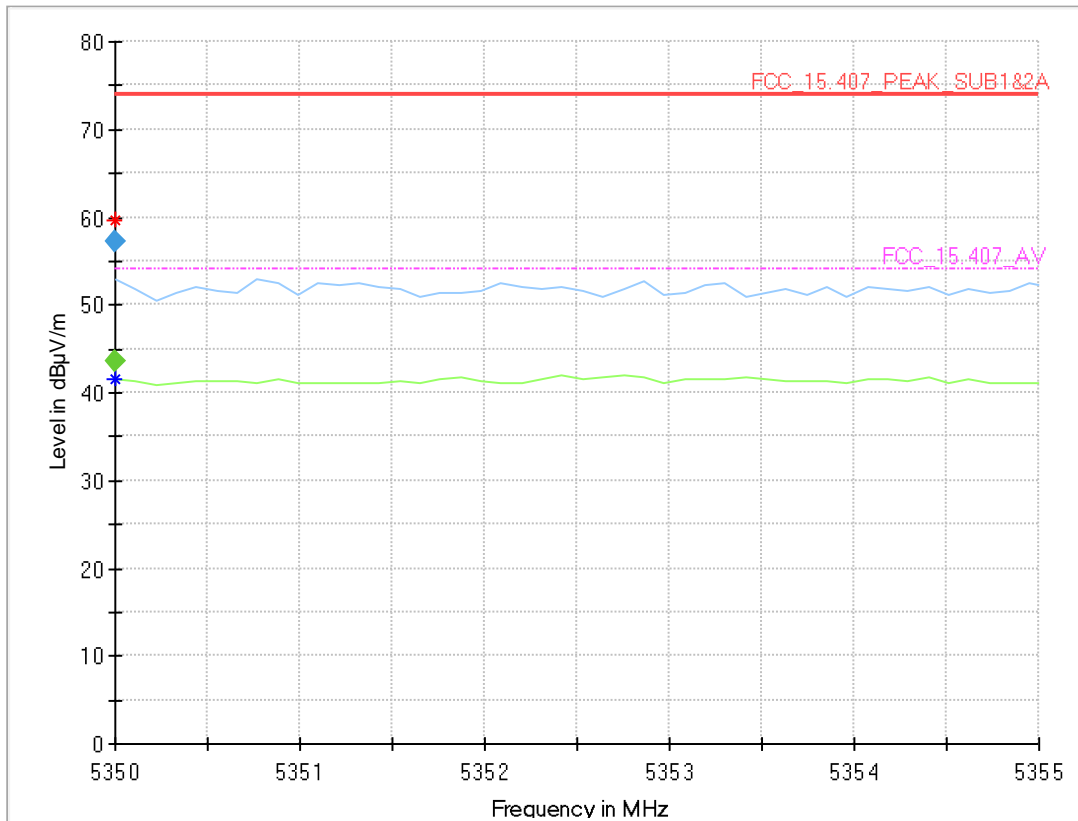
Final Result

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)
5459.800	---	46.8	54.00	7.18	1000.0	1000.000	150.0	V	-1.0	105.0	14.5
5459.800	60.3	---	74.00	13.65	1000.0	1000.000	150.0	V	-1.0	105.0	14.5
5470.000	---	51.5	---	---	1000.0	1000.000	150.0	V	-1.0	105.0	14.4
5470.000	66.2	---	68.20	1.95	1000.0	1000.000	150.0	V	-1.0	105.0	14.4
16703.282	---	43.4	---	---	1000.0	1000.000	150.0	H	-183.0	15.0	-0.6
16703.282	57.3	---	68.20	10.92	1000.0	1000.000	150.0	H	-183.0	15.0	-0.6

Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C
(S04_AJ03)



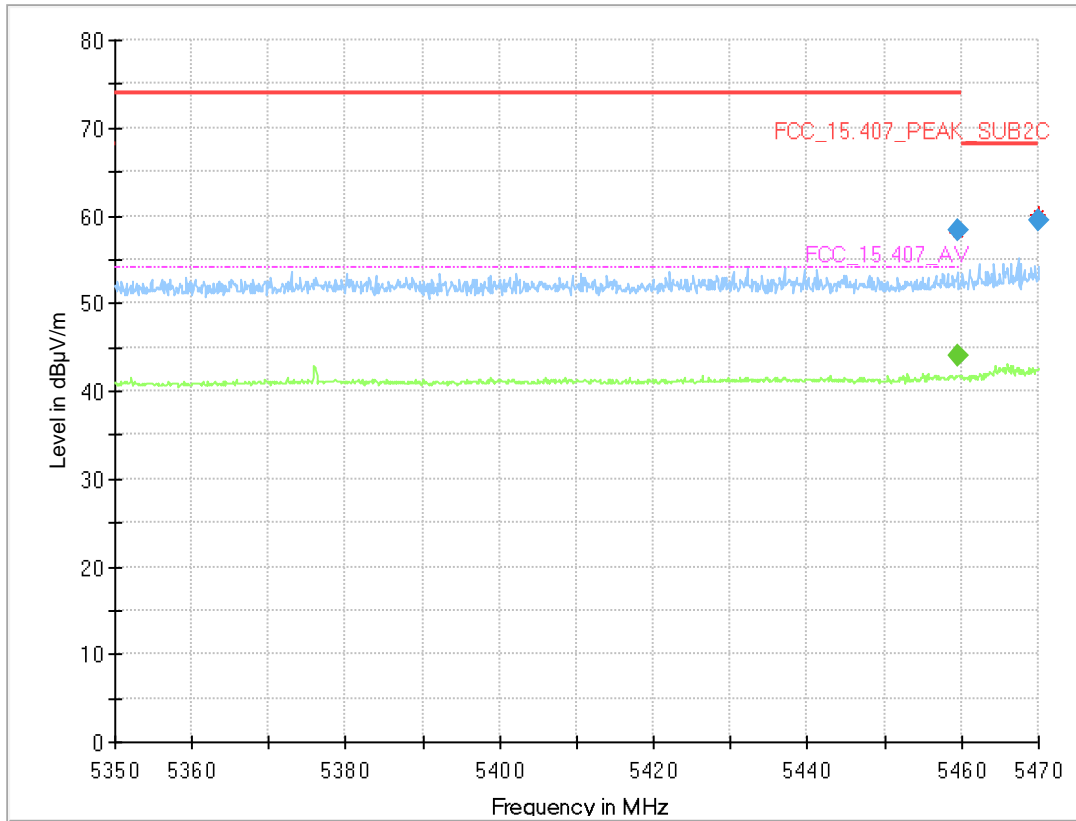
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = high,
 Subband = U-NII-2A
 (S04_AJ03)



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)
5350.000	---	43.6	54.00	10.43	1000.0	1000.000	150.0	H	-9.0	89.0	14.1
5350.000	57.2	---	74.00	16.85	1000.0	1000.000	150.0	H	-9.0	89.0	14.1

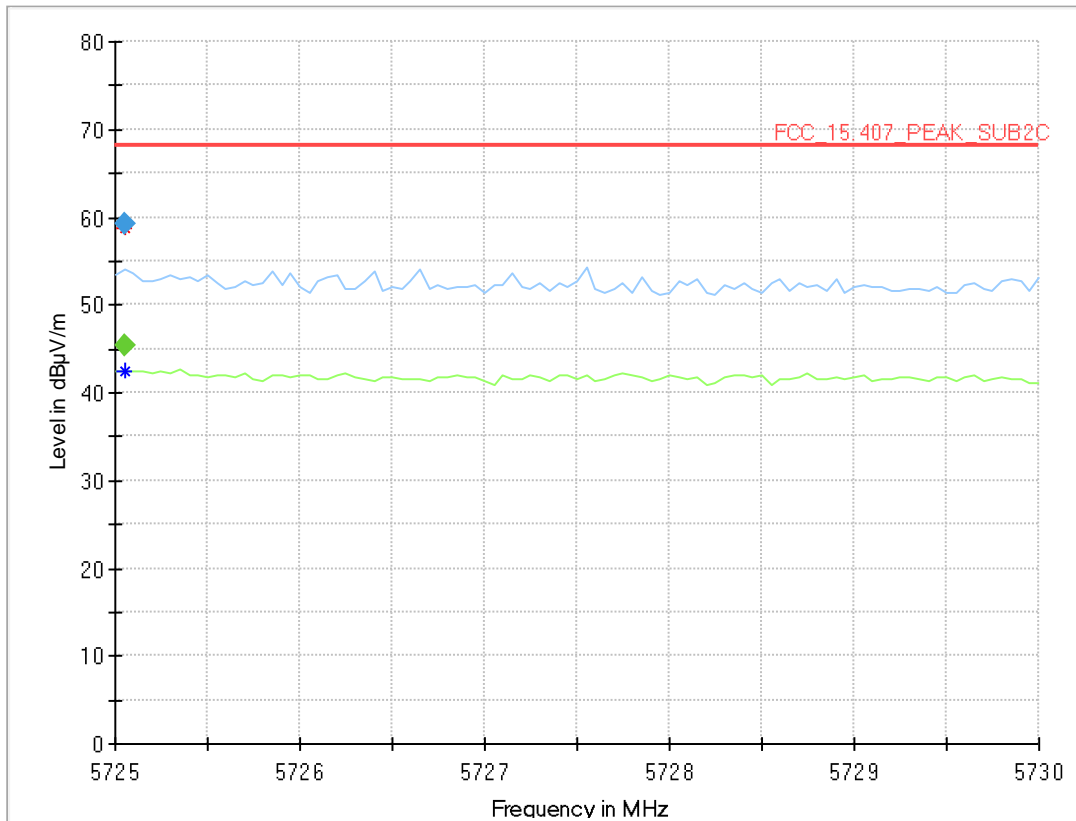
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S04_AJ03)



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)
5459.450	---	44.0	54.00	10.00	1000.0	1000.000	150.0	H	136.0	75.0	14.5
5459.450	58.3	---	74.00	15.71	1000.0	1000.000	150.0	H	50.0	85.0	14.5
5470.000	59.5	---	68.20	8.66	1000.0	1000.000	150.0	H	81.0	75.0	14.4

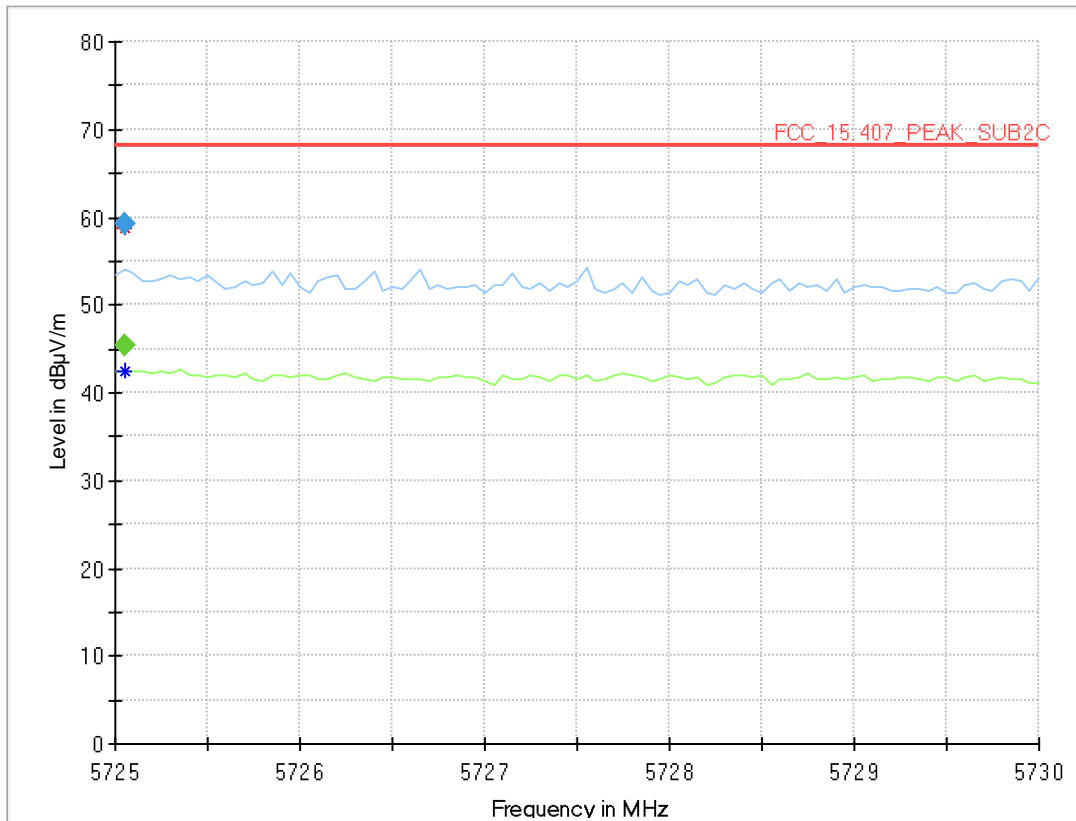
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = high,
 Subband = U-NII-2C
 (S04_AJ03)



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)
5725.050	---	45.4	---	---	1000.0	1000.000	150.0	V	-90.0	-2.0	14.2
5725.050	59.2	---	68.20	9.04	1000.0	1000.000	150.0	V	-90.0	-2.0	14.2

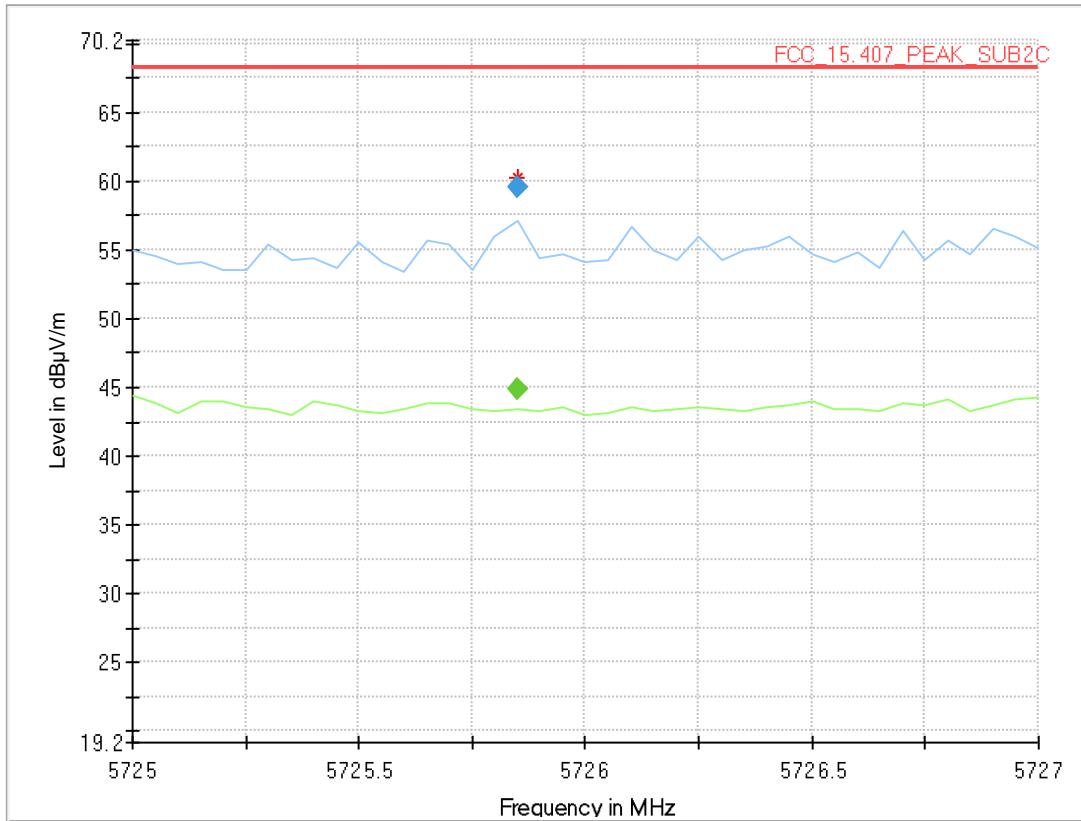
Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = high,
 Subband = U-NII-2C
 (S04_AJ03)



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)
5725.050	---	45.4	---	---	1000.0	1000.000	150.0	V	-90.0	-2.0	14.2
5725.050	59.2	---	68.20	9.04	1000.0	1000.000	150.0	V	-90.0	-2.0	14.2

Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = high,
 Subband = U-NII-2C
 (S04_AJ03)

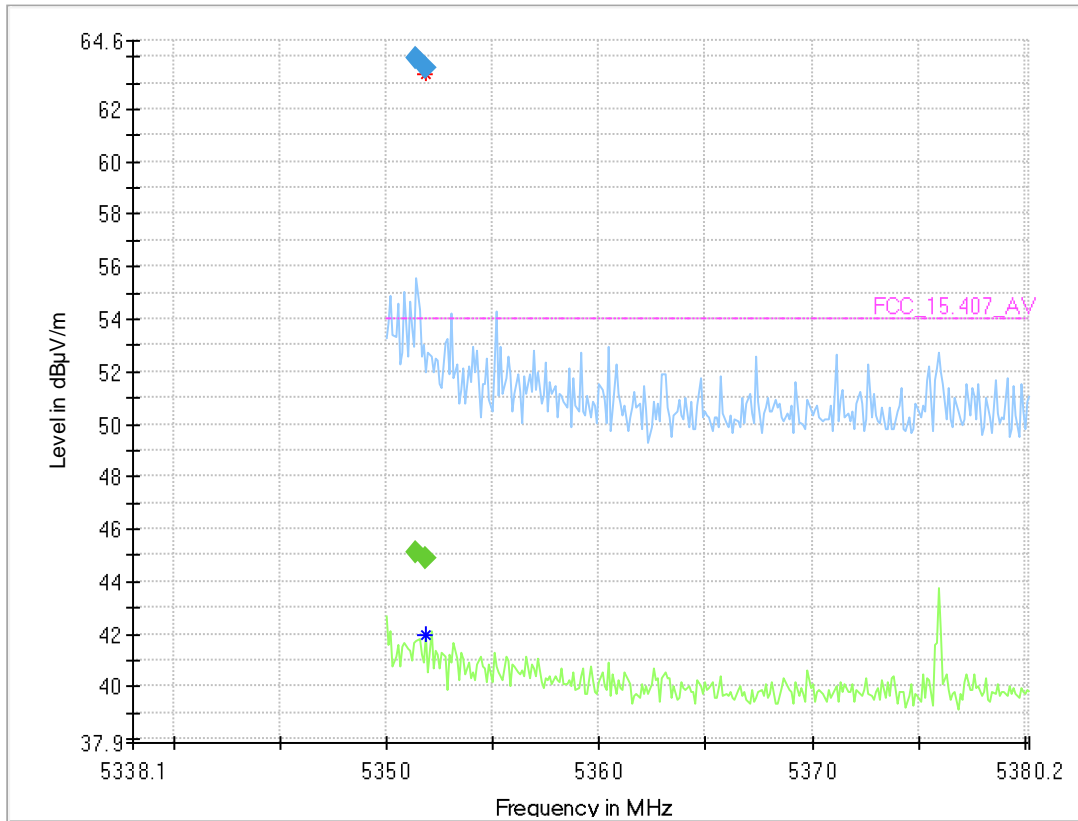


Final Result

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)
5725.850	---	44.8	---	---	1000.0	1000.000	150.0	V	128.0	-4.0	14.2
5725.850	59.5	---	68.20	8.70	1000.0	1000.000	150.0	V	128.0	-4.0	14.2

**Conducted power settings for antenna gain > 8.0 dBi and ≤ 9.0 dBi
(see chapter 4.6)**

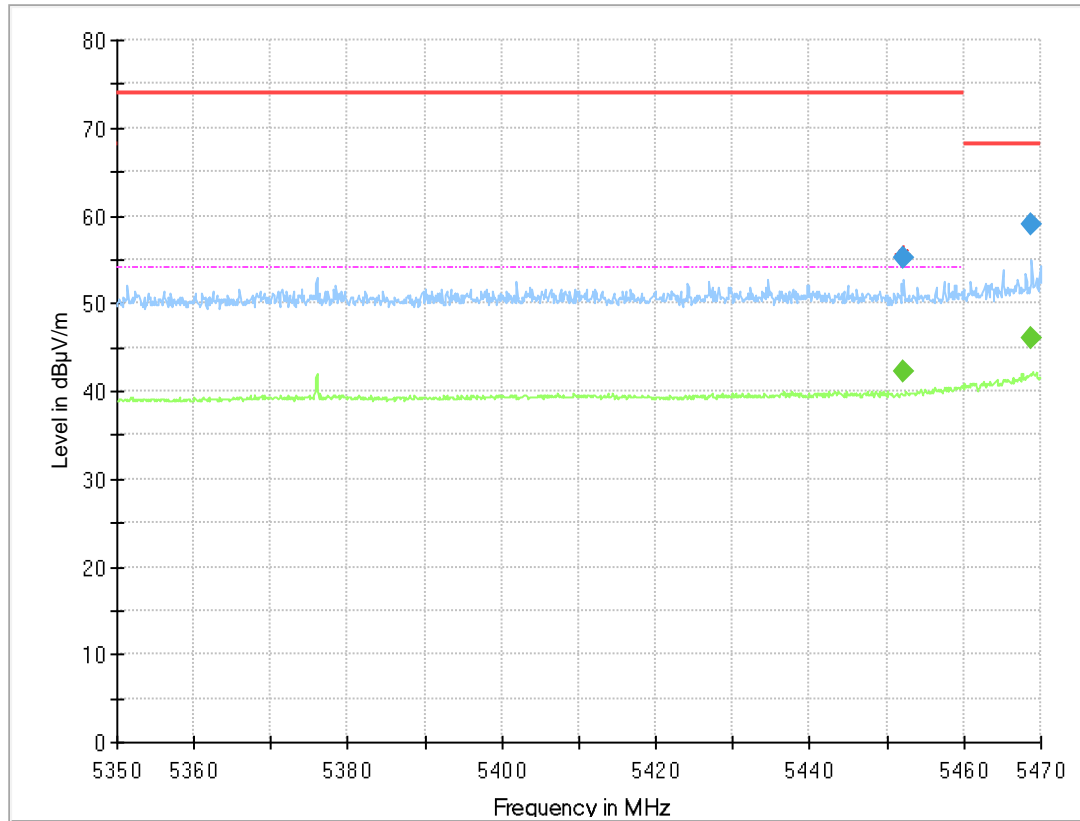
Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2A
(S03_AJ03)



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)
5351.430	---	45.1	54.00	8.92	1000.0	1000.000	150.0	V	-5.0	105.0	14.1
5351.430	63.9	---	74.00	10.07	1000.0	1000.000	150.0	V	-5.0	105.0	14.1
5351.870	---	44.9	54.00	9.10	1000.0	1000.000	150.0	V	-9.0	105.0	14.1
5351.870	63.5	---	74.00	10.46	1000.0	1000.000	150.0	V	-9.0	105.0	14.1

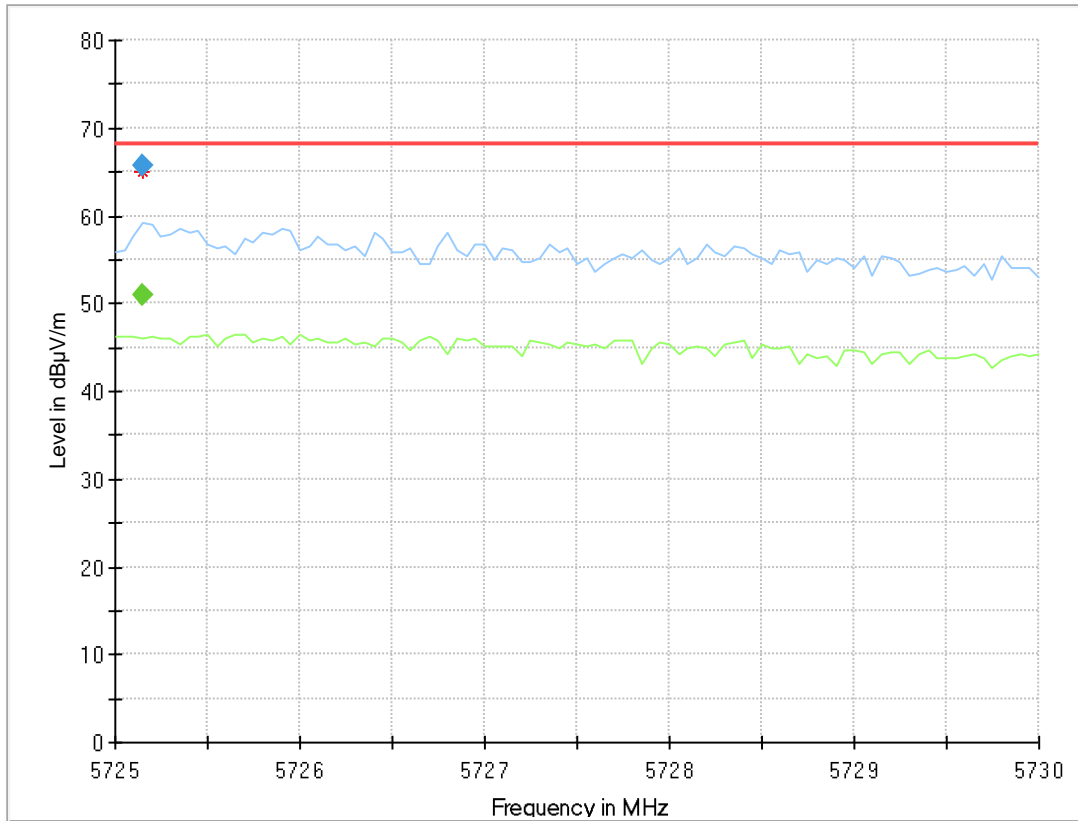
Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



Final Result

Frequency (MHz)	MaxPeak (dBµV/m)	CAverage (dBµV/m)	Limit (dBµV/m)	Marg in (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Cor. (dB/m)
5452.240	55.1	---	74.0	18.92	1000.0	1000.00	150.	V	98.0	-11.0	14.4
5452.240	---	42.2	54.0	11.76	1000.0	1000.00	150.	V	98.0	-11.0	14.4
5468.800	59.1	---	68.2	9.15	1000.0	1000.00	150.	V	11.0	99.0	14.5
5468.800	---	46.0	---	---	1000.0	1000.00	150.	V	11.0	99.0	14.5

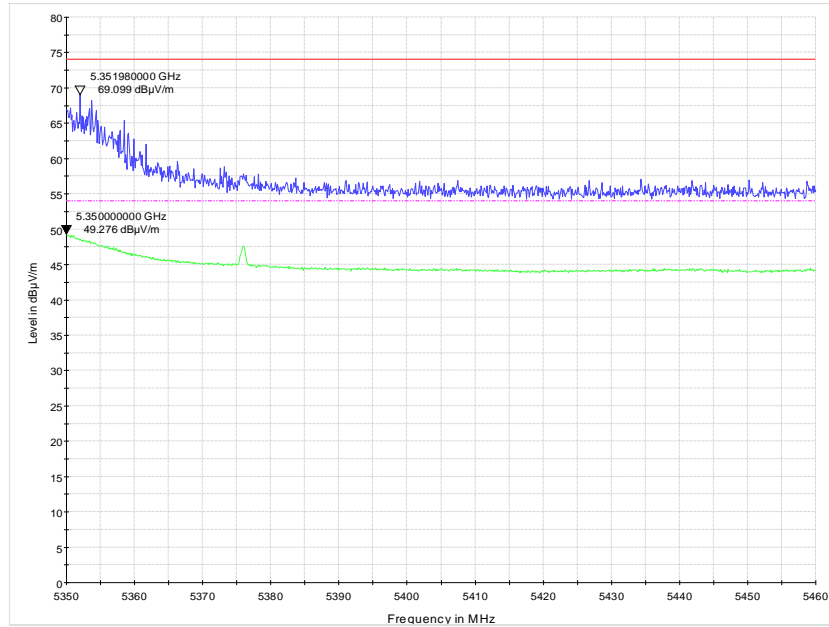
Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



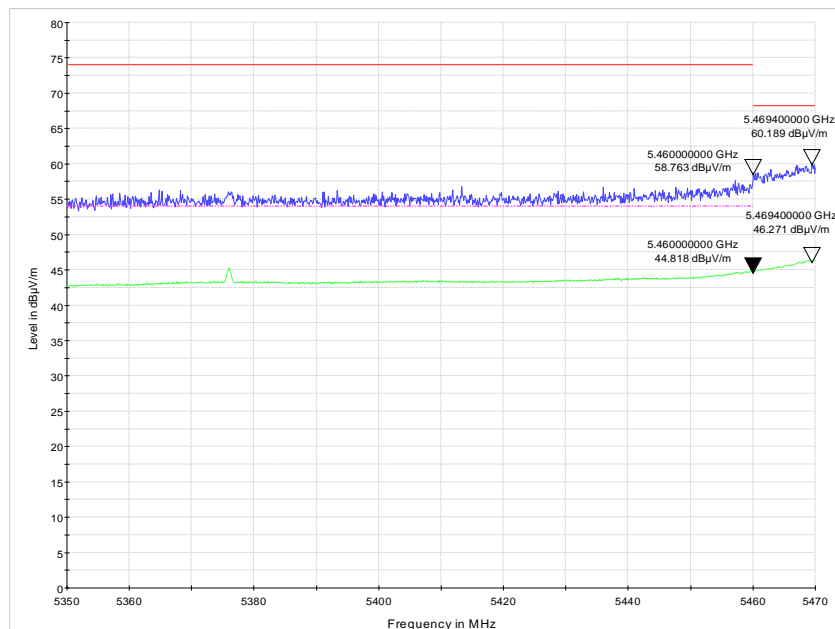
Final Result

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)
5725.150	---	51.1	---	---	1000.0	1000.000	150.0	V	-11.0	102.0	14.2
5725.150	65.7	---	68.20	2.45	1000.0	1000.000	150.0	V	-11.0	102.0	14.2

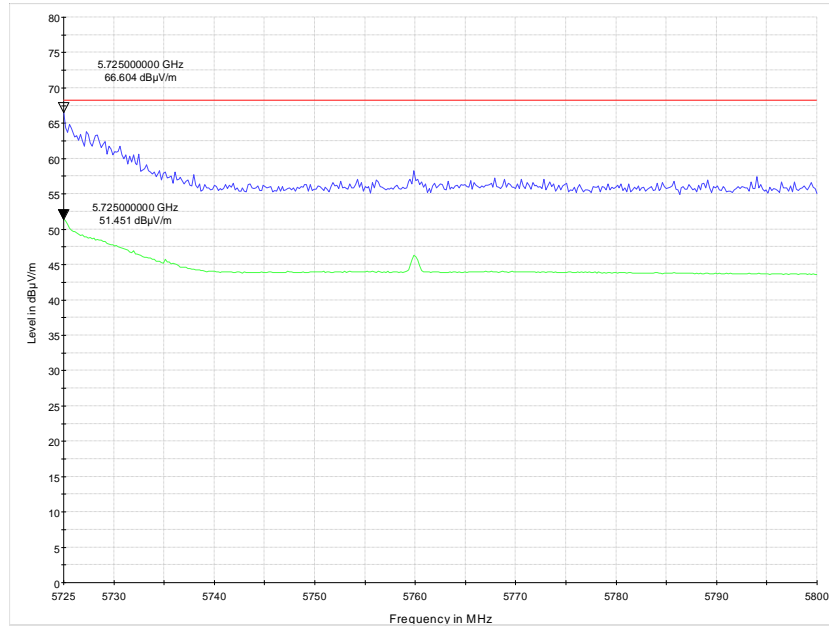
Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



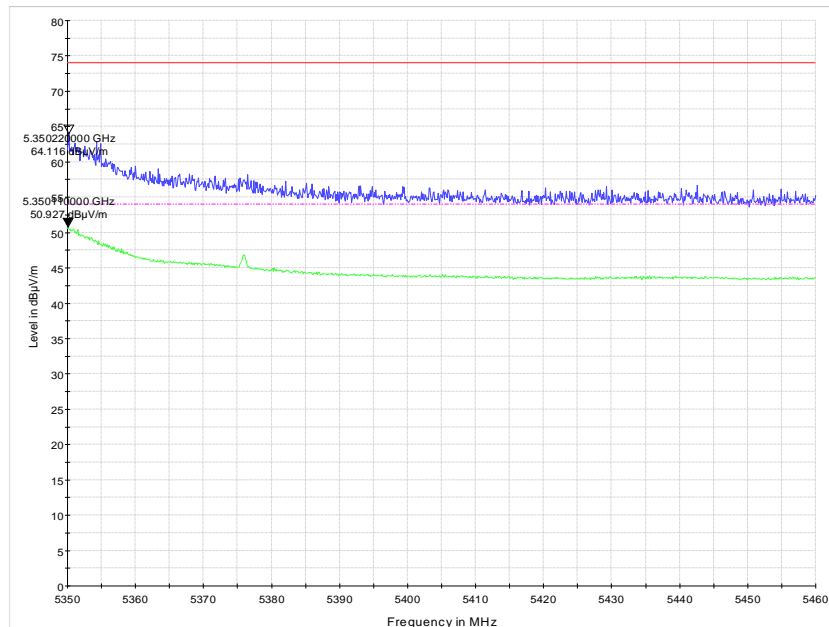
Radio Technology = WLAN ax 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



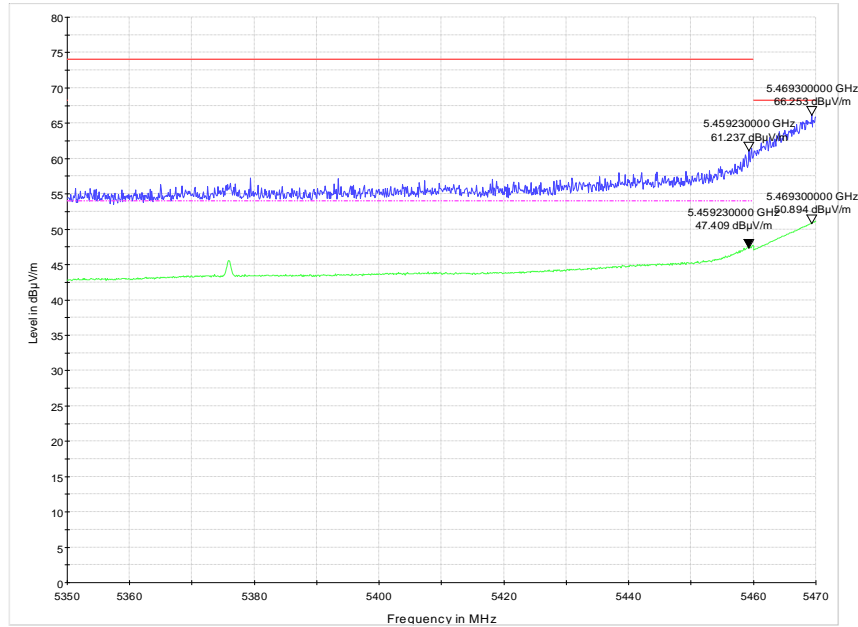
Radio Technology = WLAN ax 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



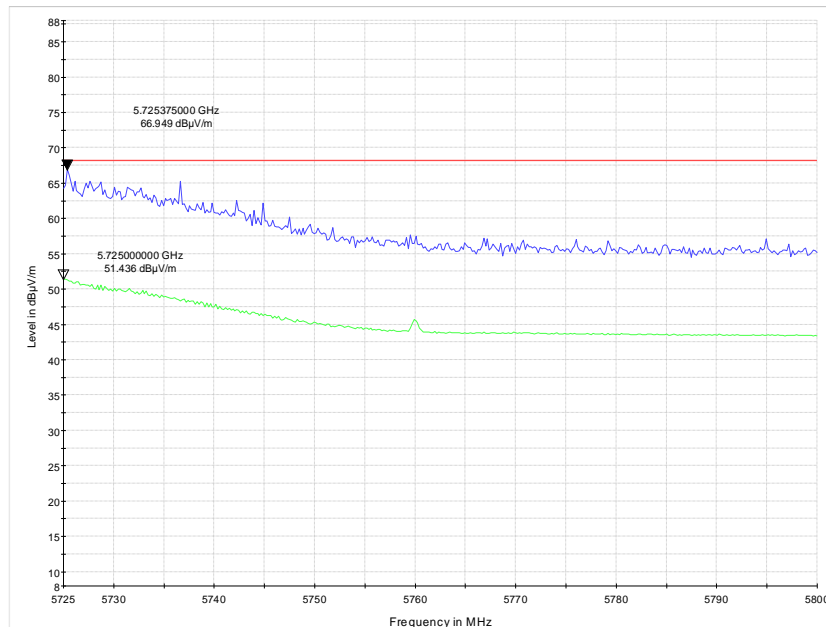
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



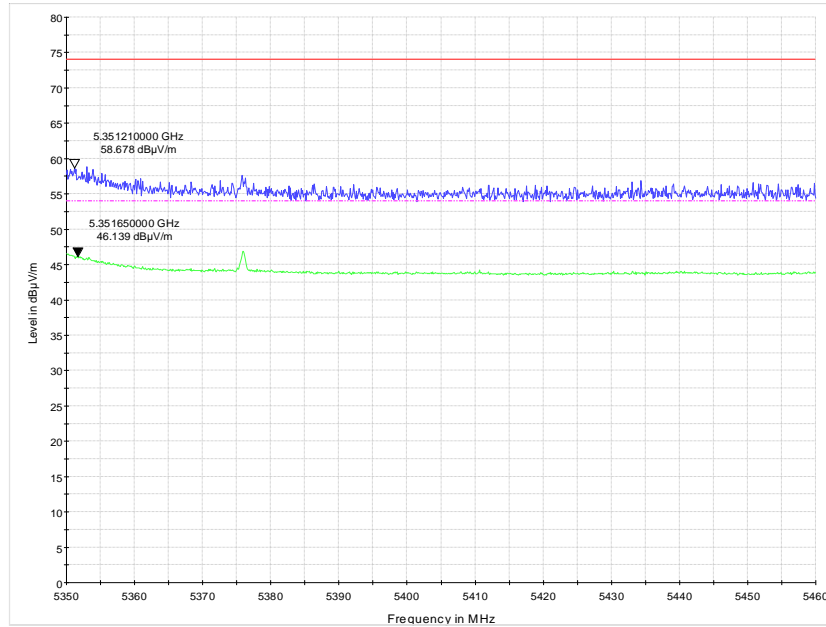
Radio Technology = WLAN ax 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



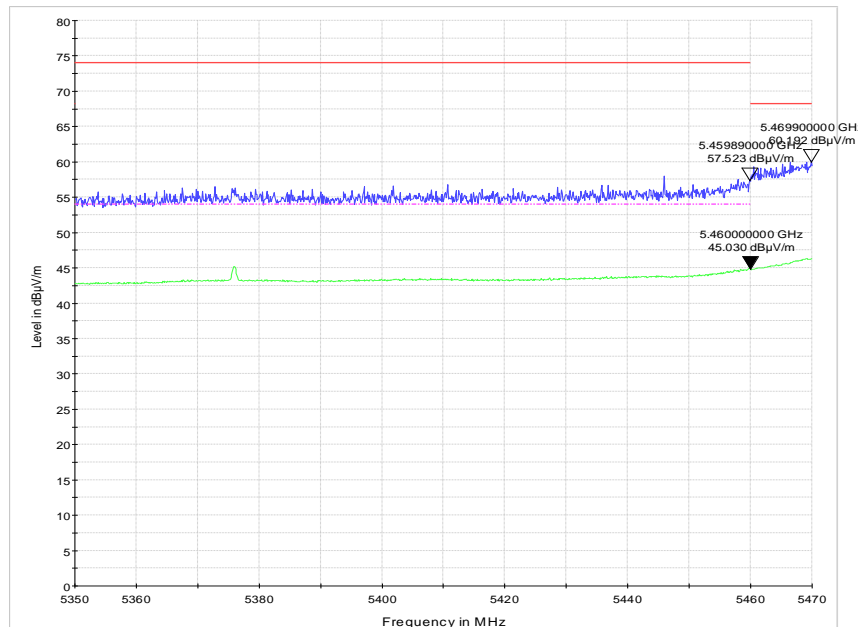
Radio Technology = WLAN ax 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



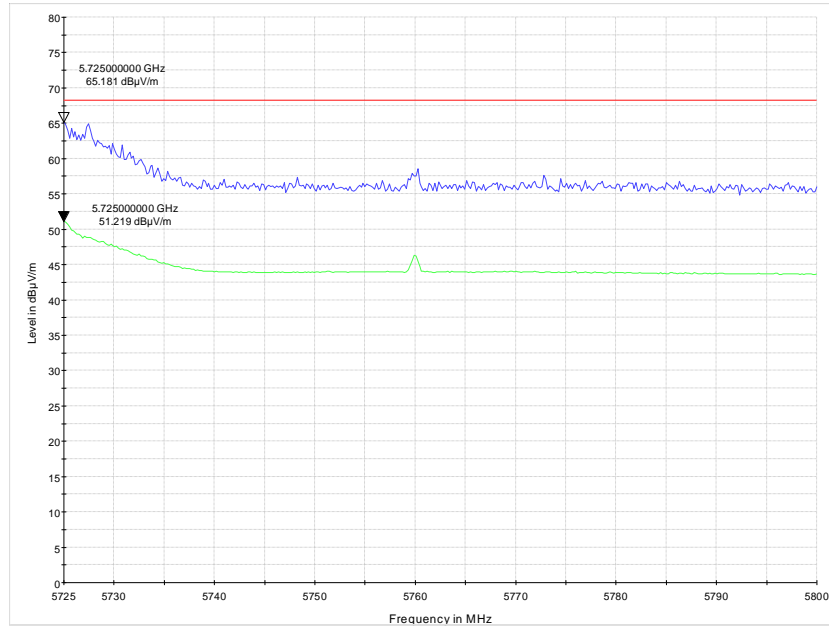
Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



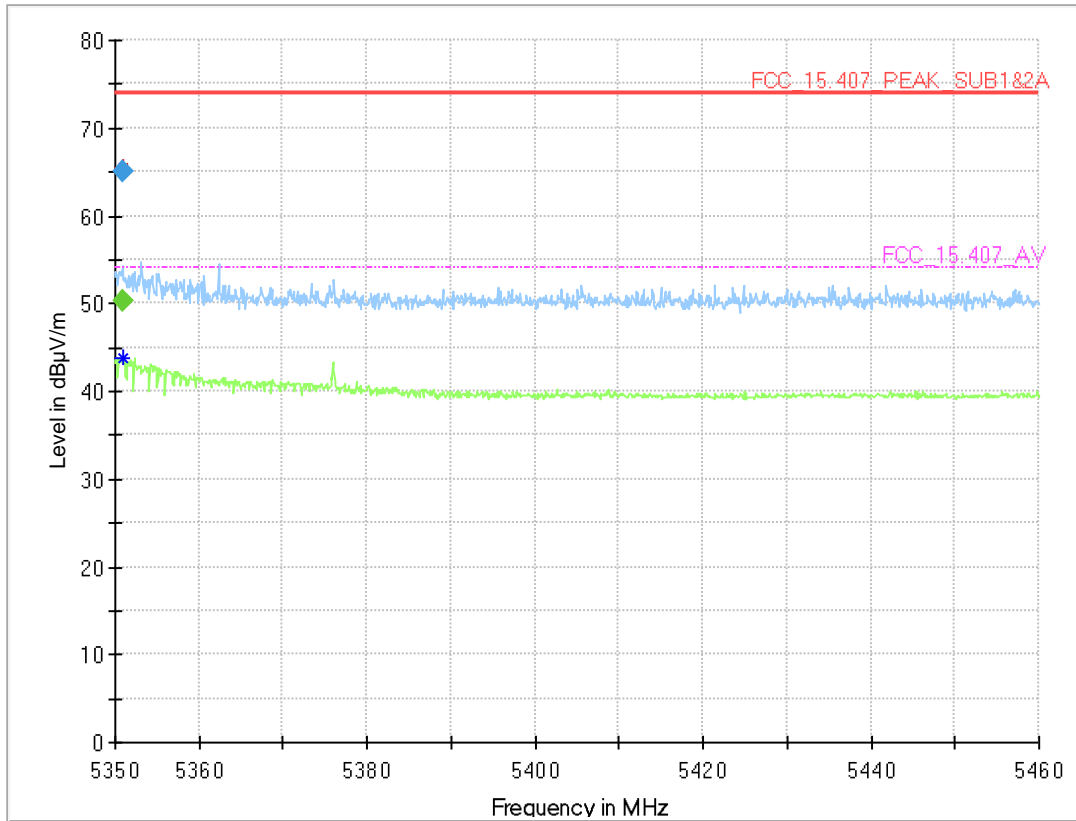
Radio Technology = WLAN n 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



Radio Technology = WLAN n 20 MHz, Operating Frequency = high, Subband = U-NII-2C
(S03_AJ03)



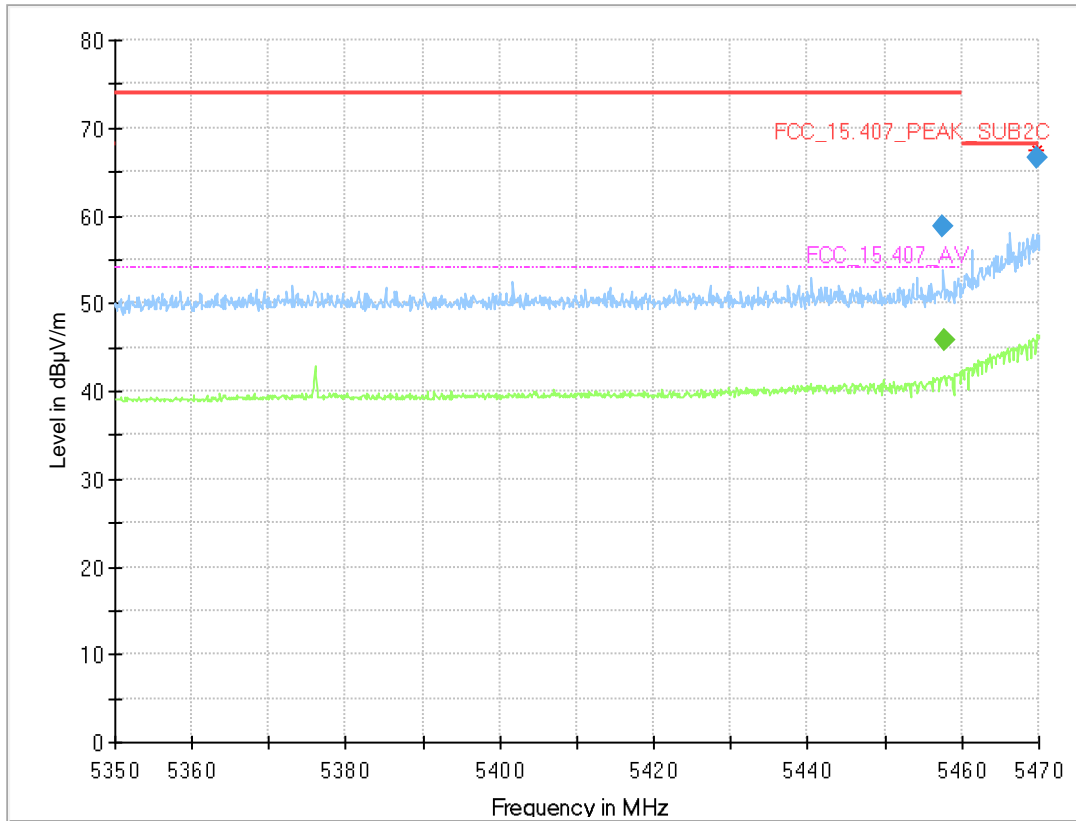
Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



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)
5350.880	---	50.2	54.00	3.81	1000.0	1000.000	150.0	V	1.0	104.0	14.1
5350.880	65.0	---	74.00	9.05	1000.0	1000.000	150.0	V	1.0	104.0	14.1

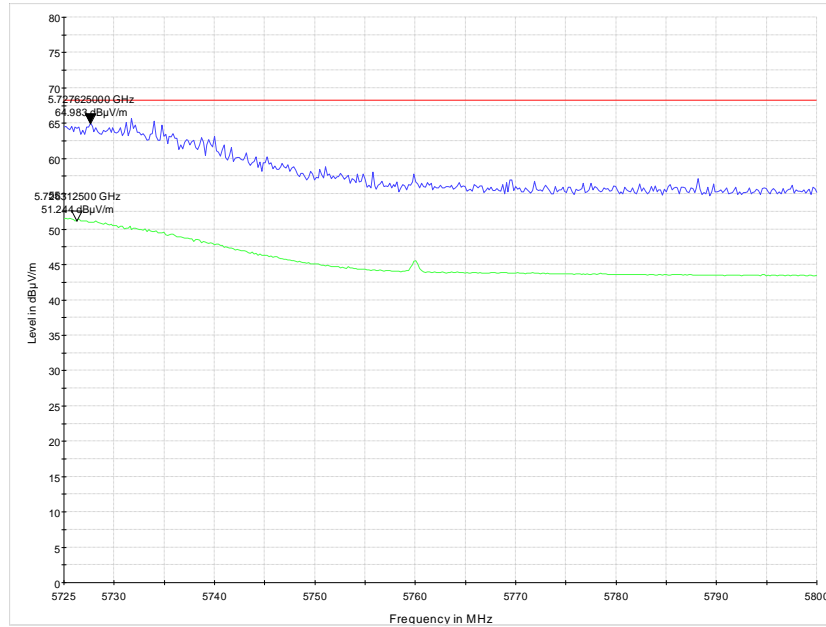
Radio Technology = WLAN n 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



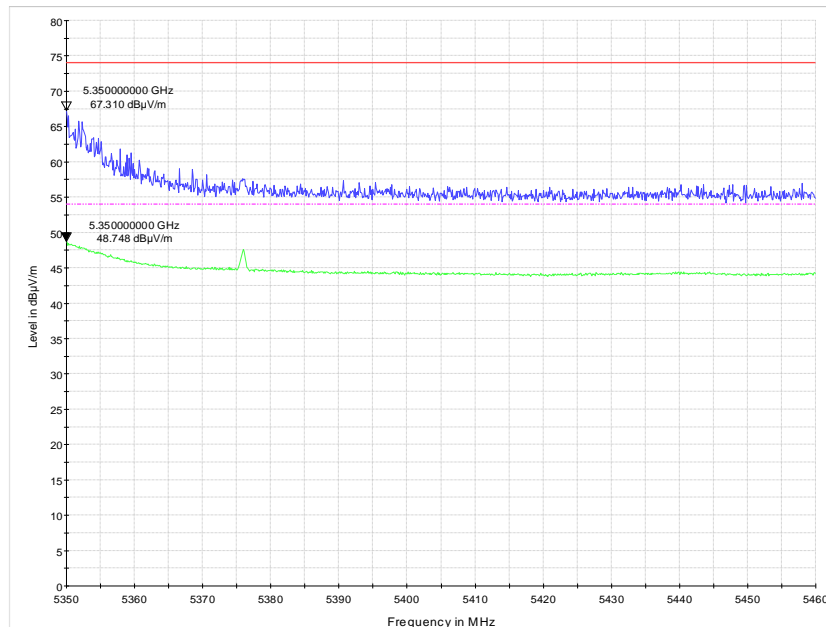
Final Result

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)
5457.580	58.7	---	74.00	15.28	1000.0	1000.000	150.0	V	-6.0	105.0	14.5
5457.690	---	45.8	54.00	8.24	1000.0	1000.000	150.0	V	3.0	97.0	14.5
5469.800	66.5	---	68.20	1.67	1000.0	1000.000	150.0	V	10.0	99.0	14.4

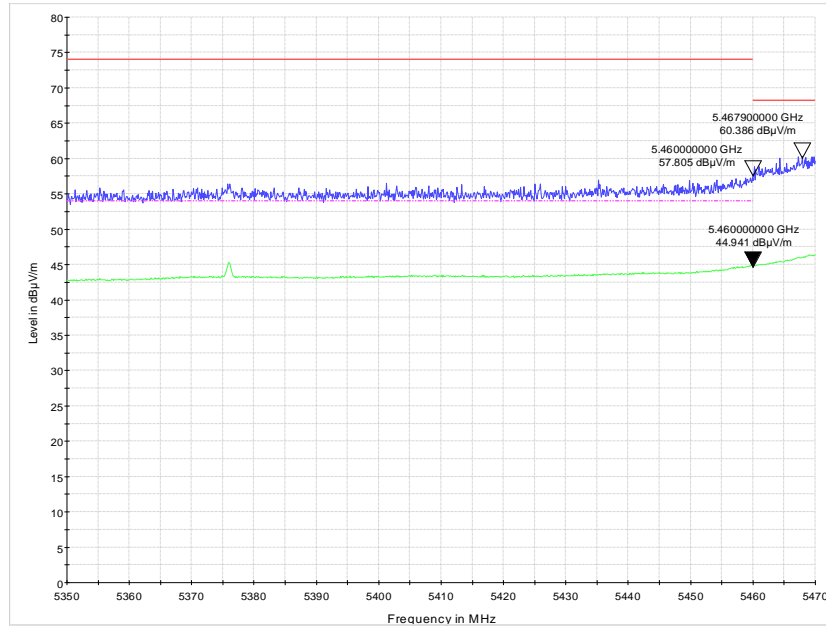
Radio Technology = WLAN n 40 MHz, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



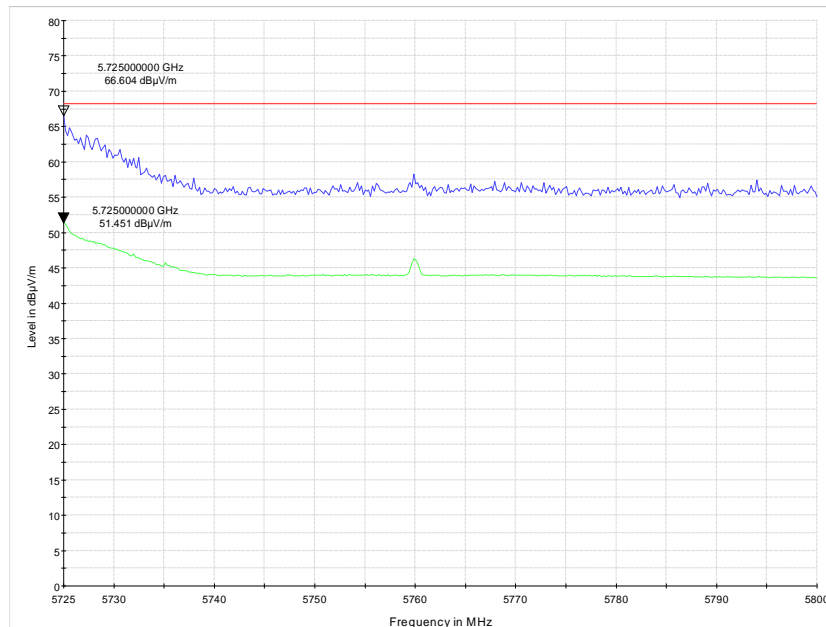
Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



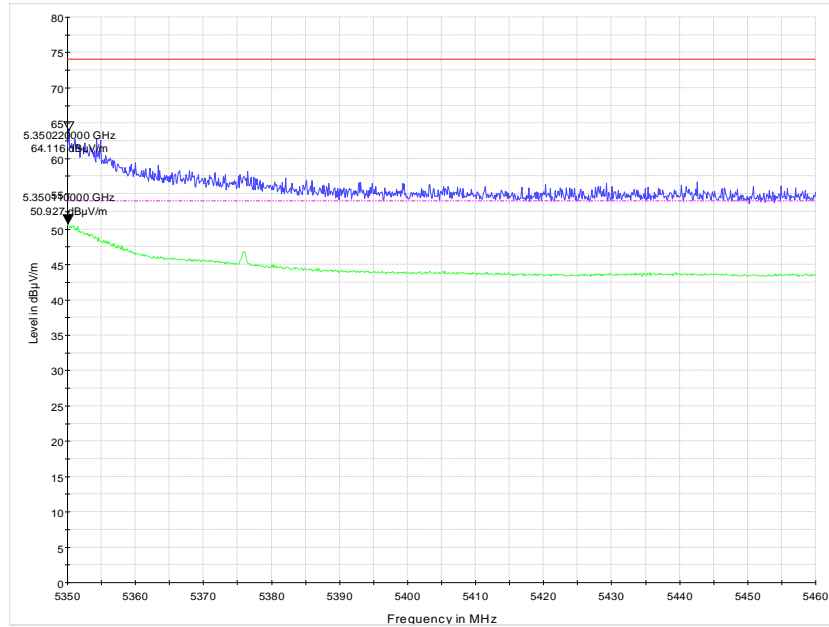
Radio Technology = WLAN ac 20 MHz, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



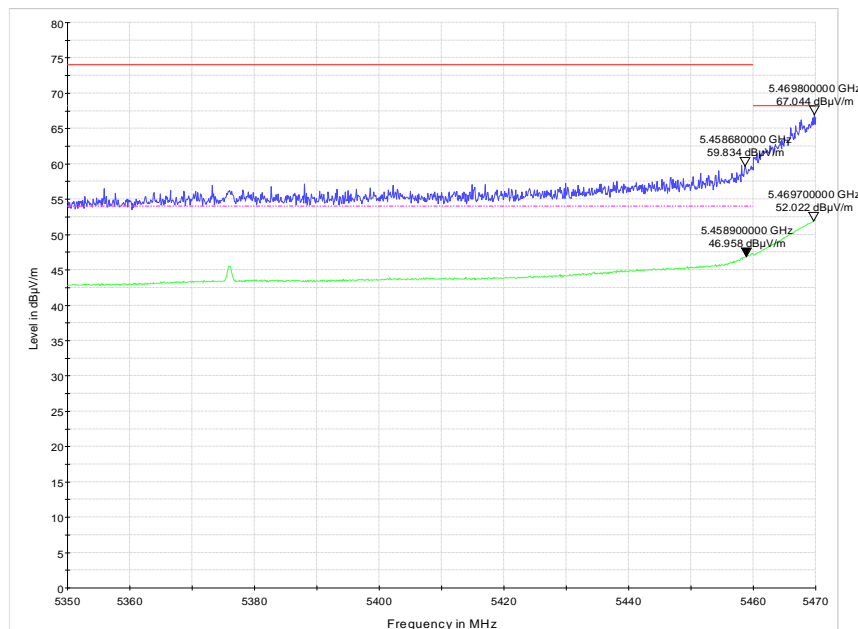
Radio Technology = WLAN ac 20 MHz, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



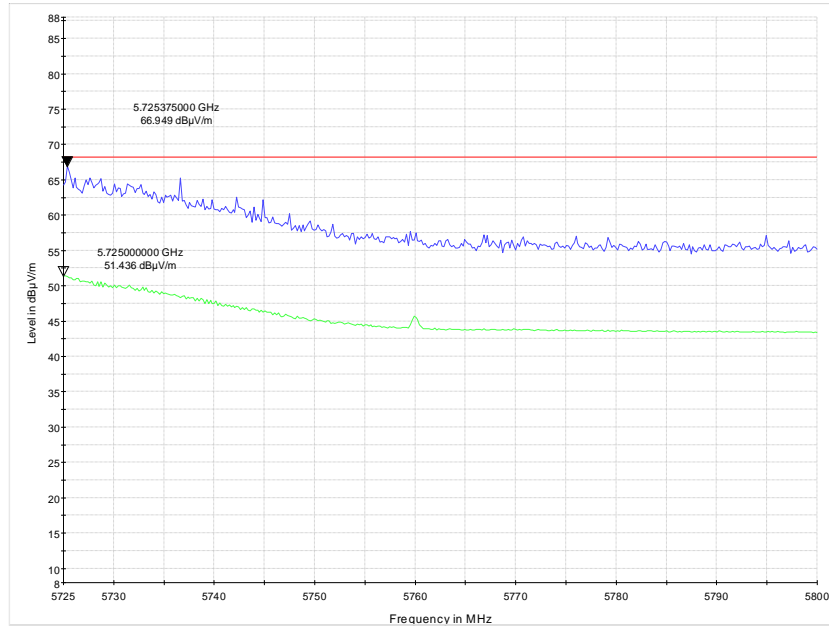
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



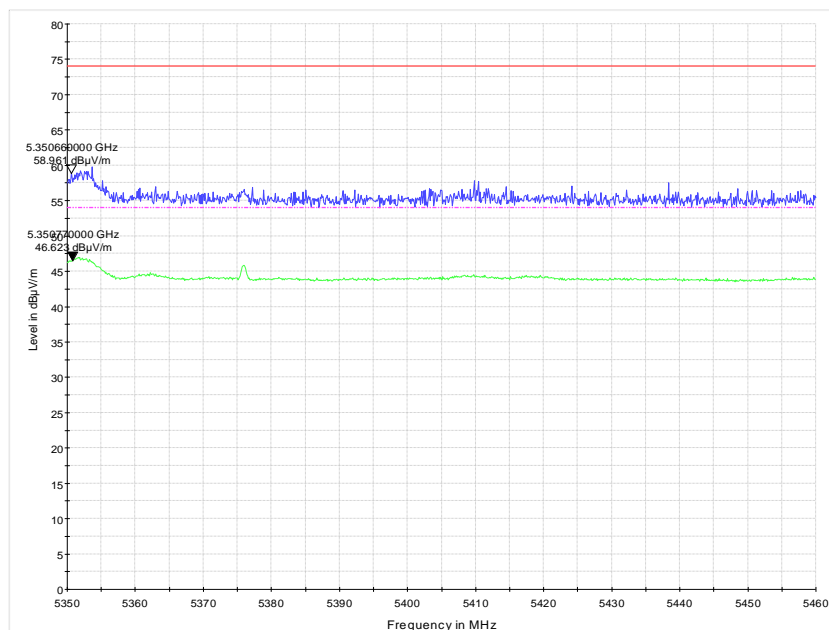
Radio Technology = WLAN ac 40 MHz, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



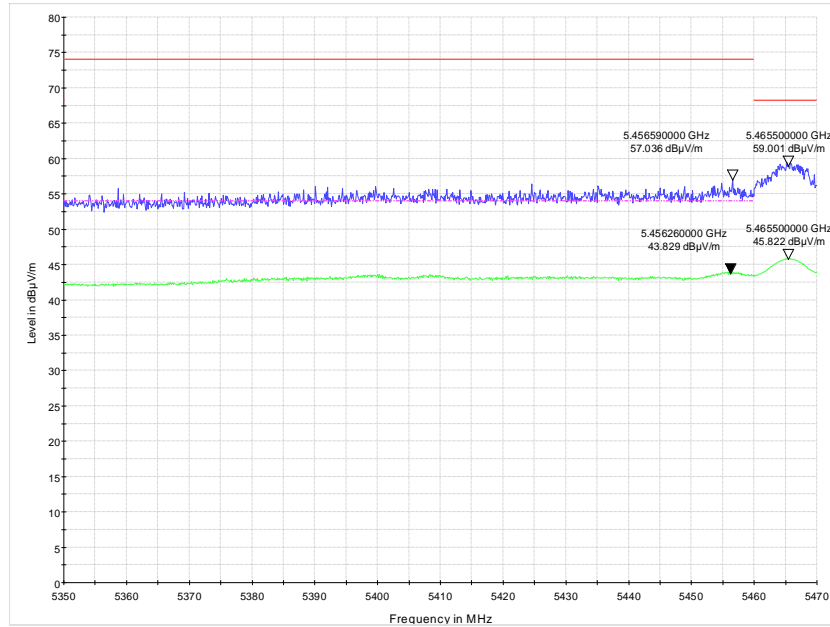
Radio Technology = WLAN ac 40 MHz, Operating Frequency = high, Subband = U-NII-2C
(S03_AJ03)



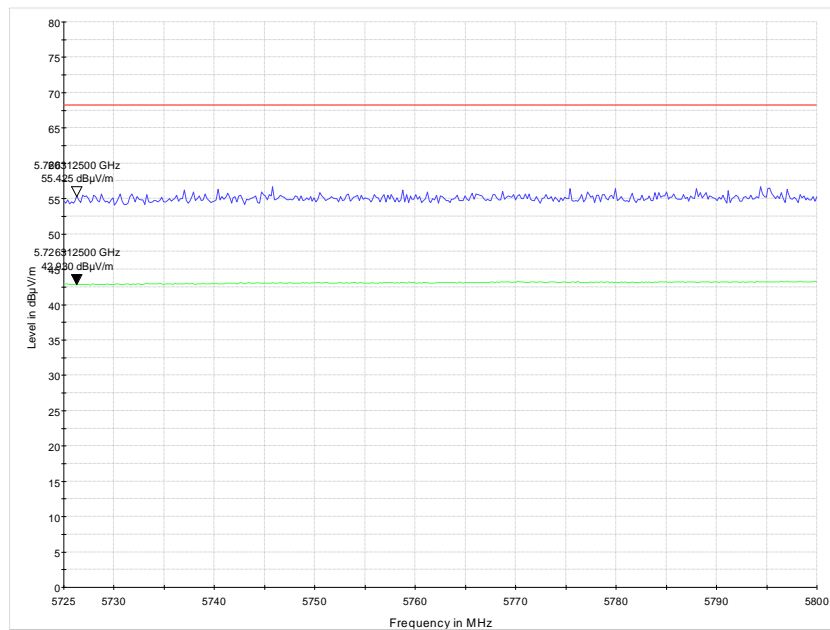
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
(S03_AJ03)



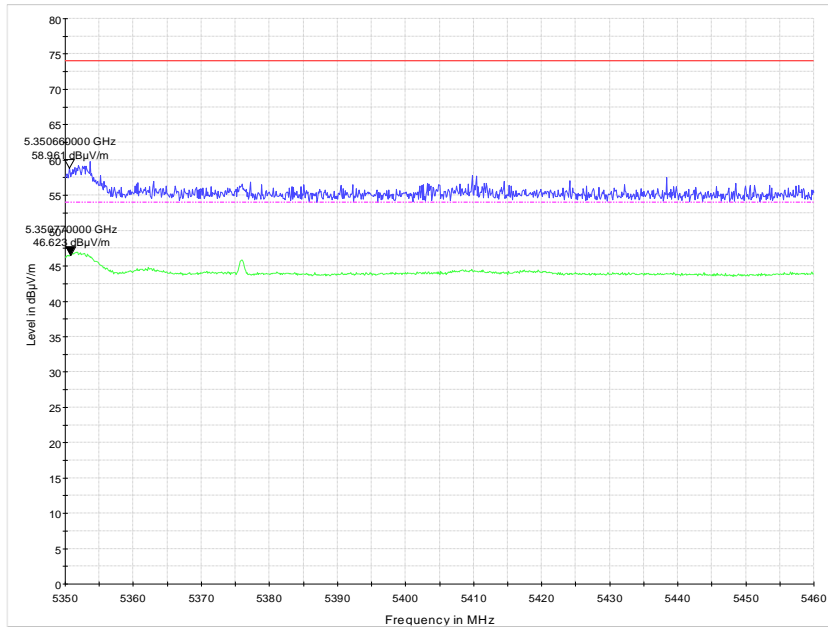
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



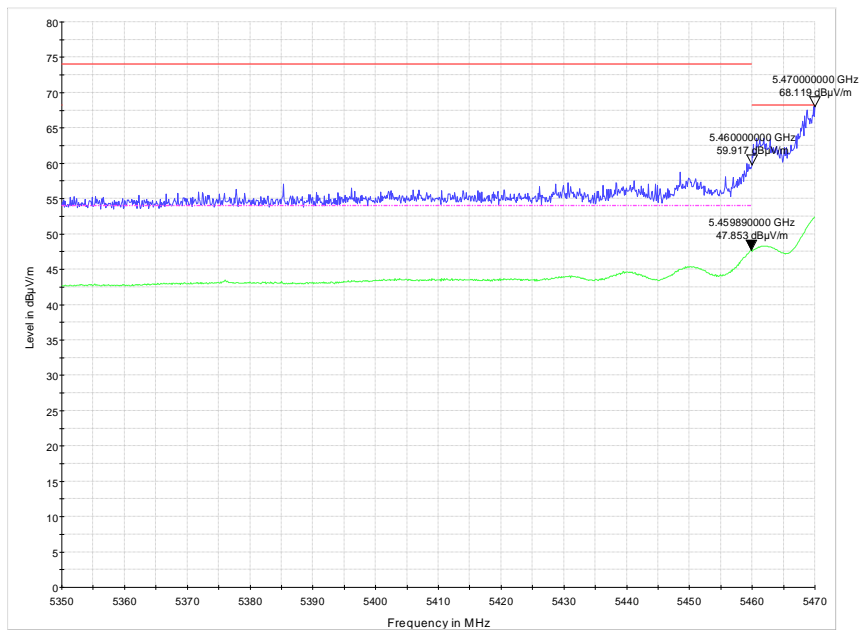
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



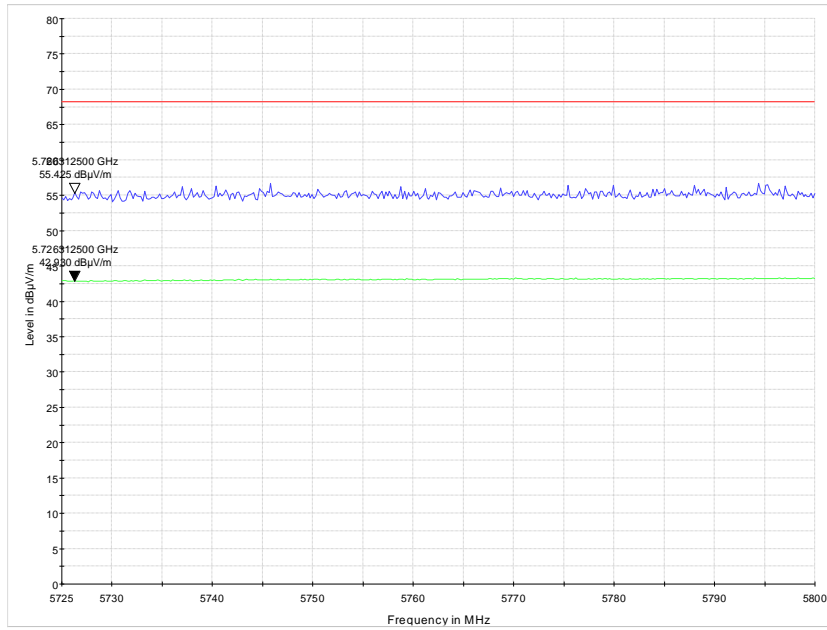
Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
 (S03_AJ03)



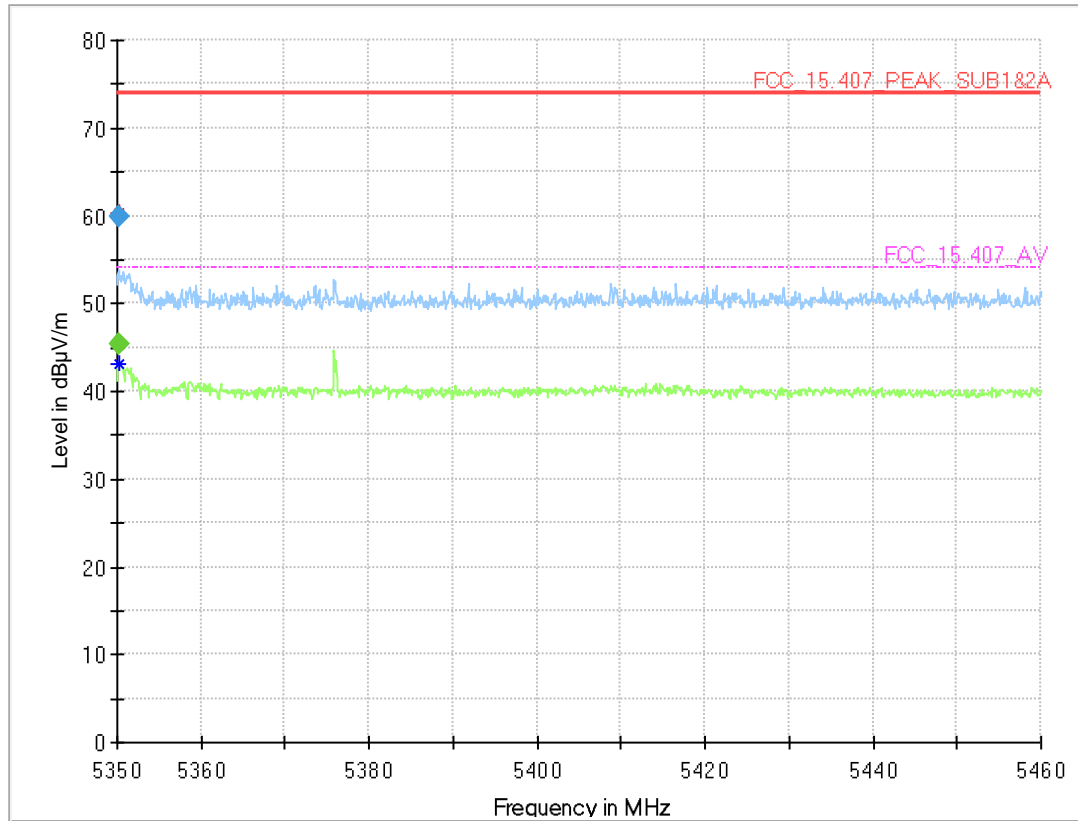
Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C
 (S03_AJ03)



Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C
(S03_AJ03)



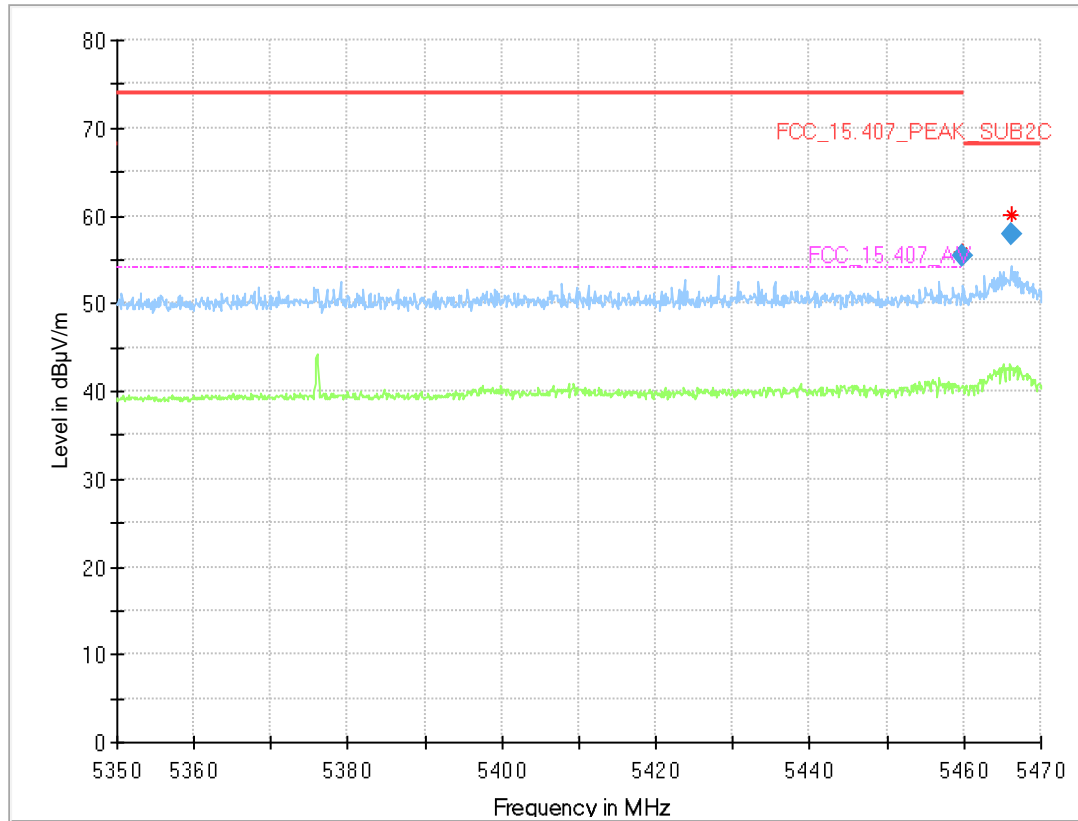
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



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)
5350.220	---	45.4	54.00	8.60	1000.0	1000.000	150.0	V	0.0	84.0	14.1
5350.220	59.9	---	74.00	14.14	1000.0	1000.000	150.0	V	0.0	84.0	14.1

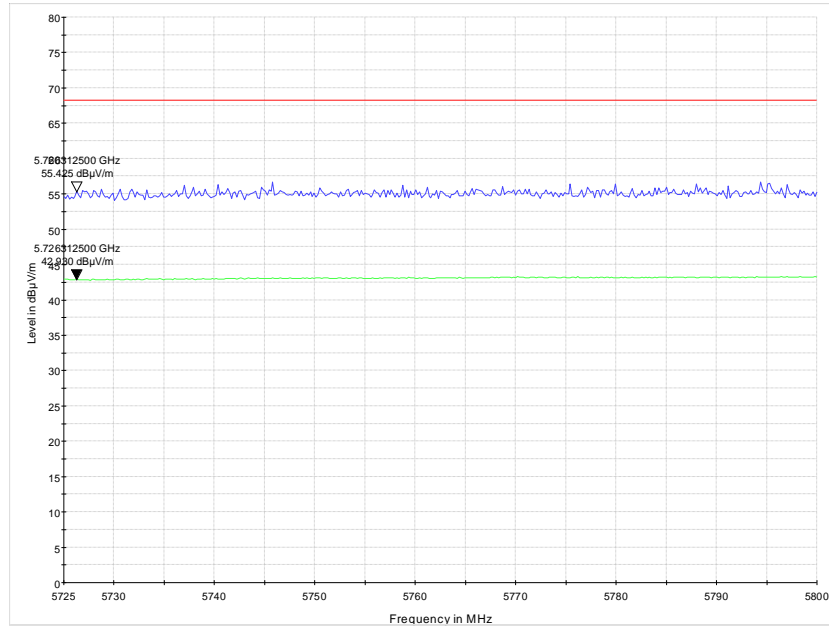
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



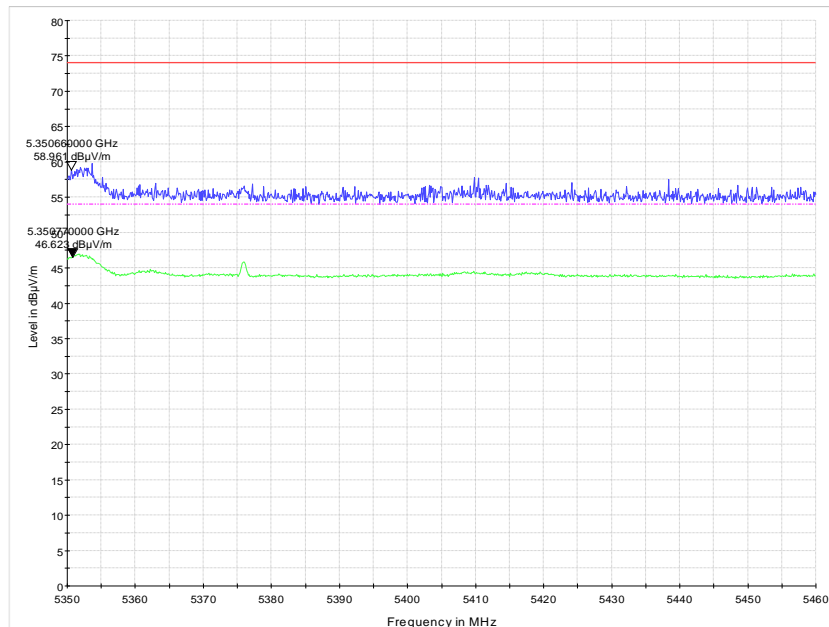
Final_Result

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)
5459.890	55.4	---	74.00	18.60	1000.0	1000.000	150.0	H	-46.0	4.0	14.5
5466.100	57.9	---	68.20	10.34	1000.0	1000.000	150.0	V	0.0	88.0	14.5

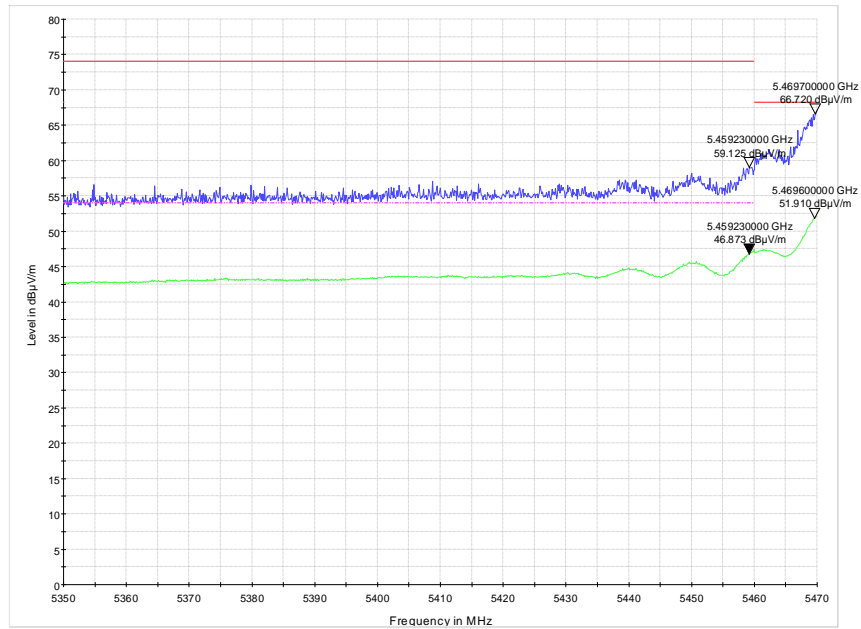
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



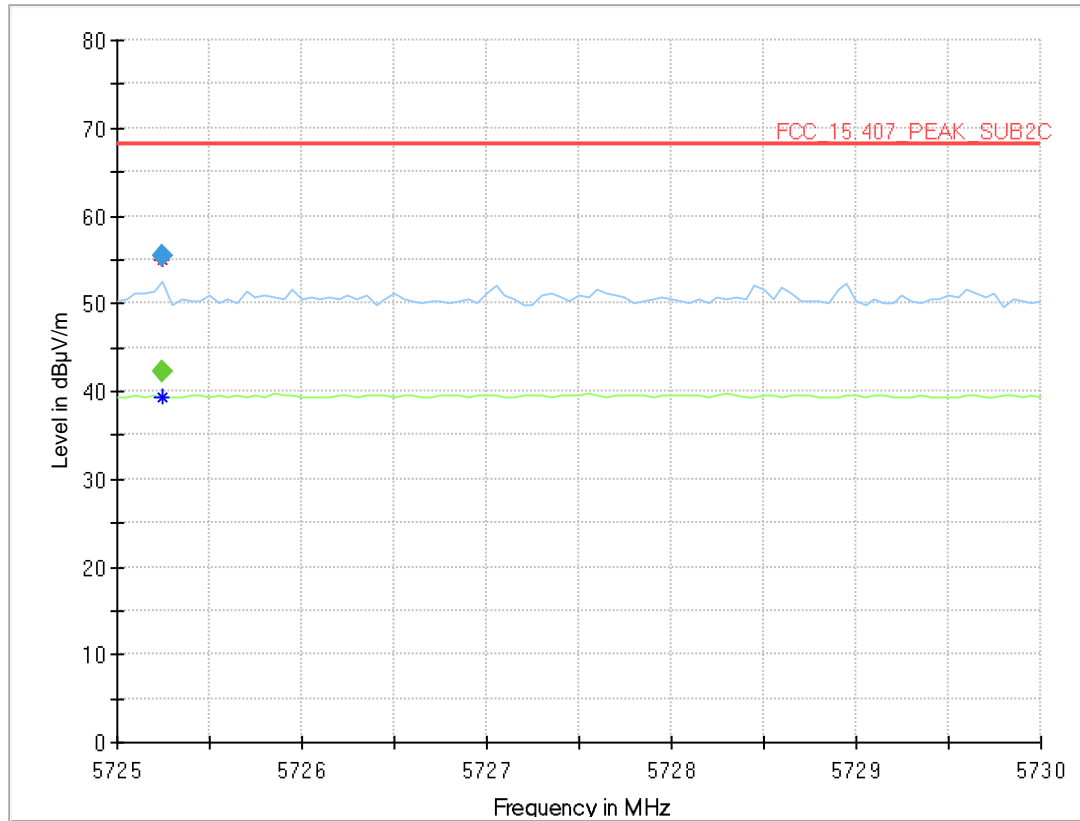
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S03_AJ03)



Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)



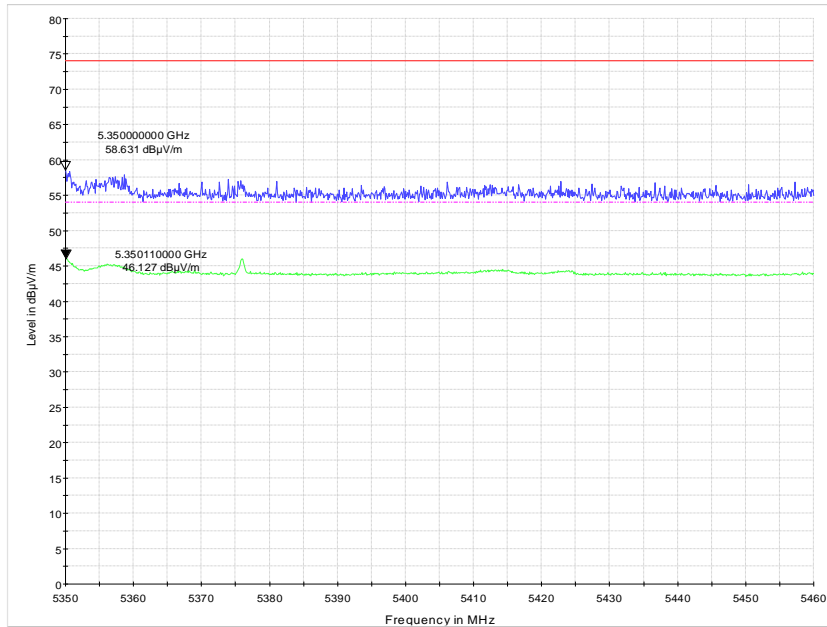
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



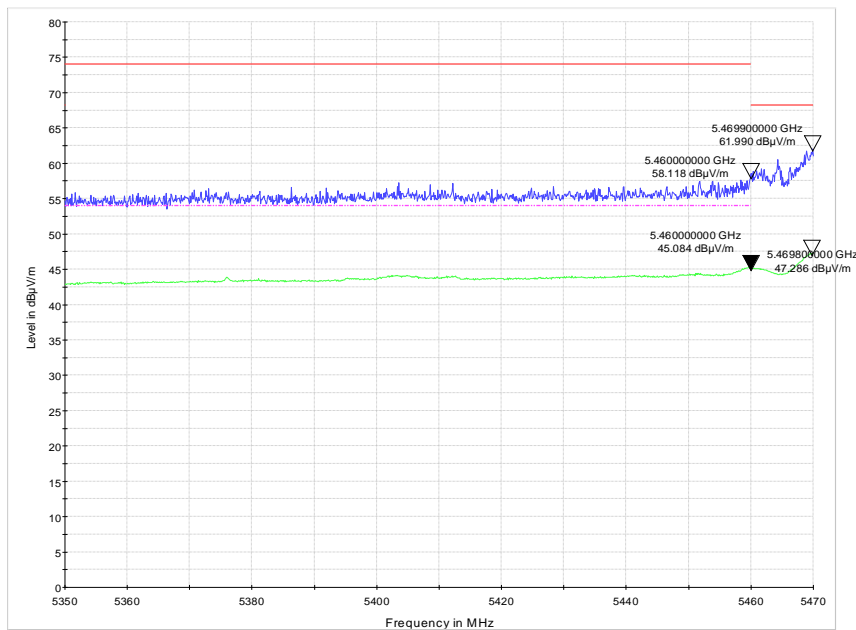
Final Result

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)
5725.250	---	42.2	---	---	1000.0	1000.000	150.0	V	-125.0	73.0	14.2
5725.250	55.4	---	68.20	12.76	1000.0	1000.000	150.0	V	-125.0	73.0	14.2

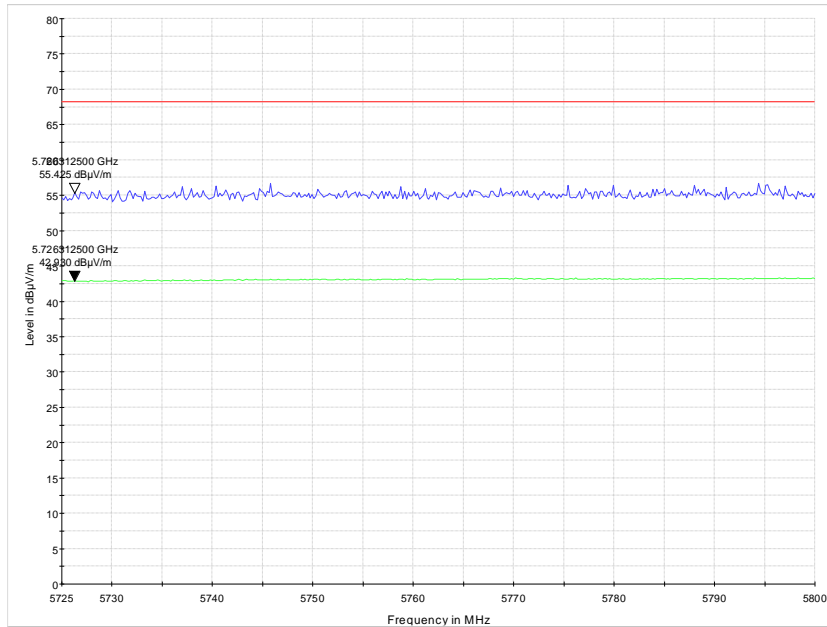
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
 (S03_AJ03)



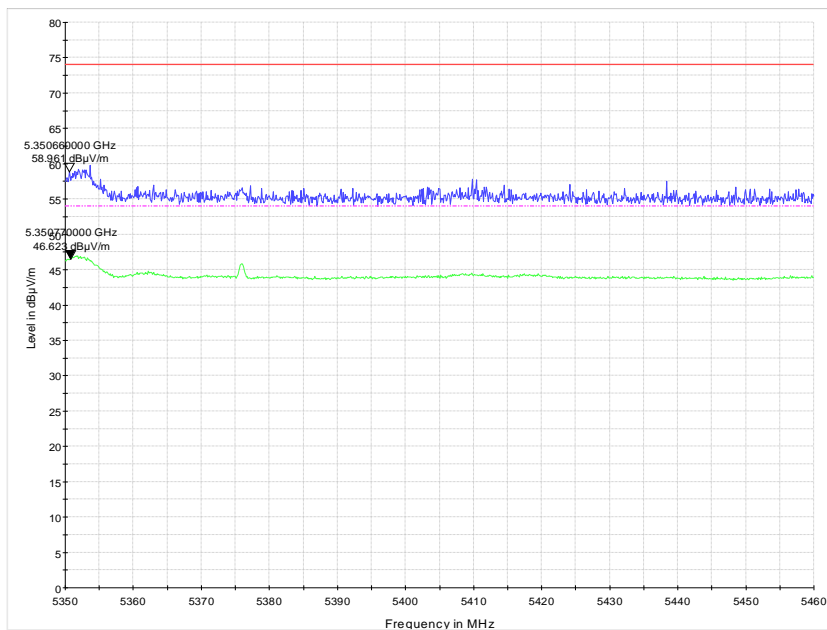
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C
 (S03_AJ03)



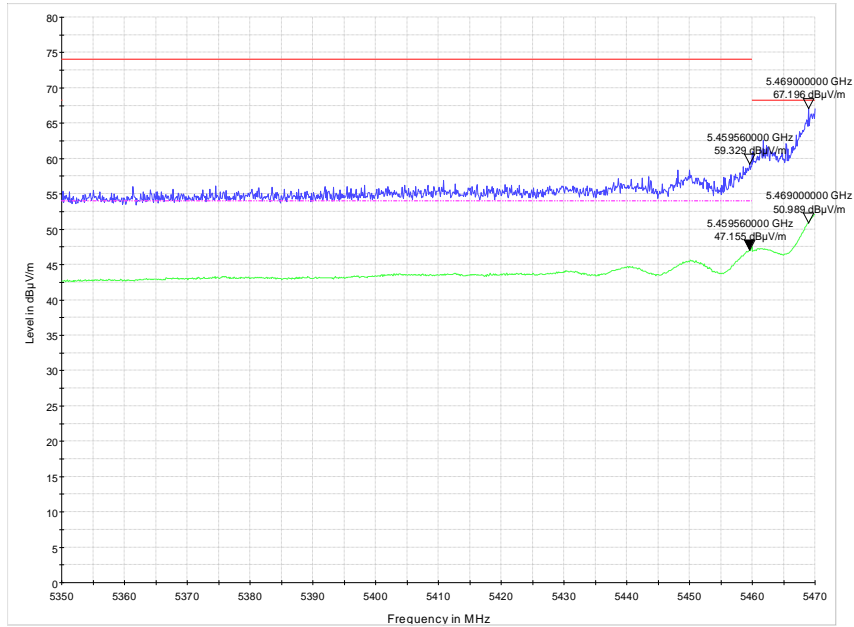
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C
(S03_AJ03)



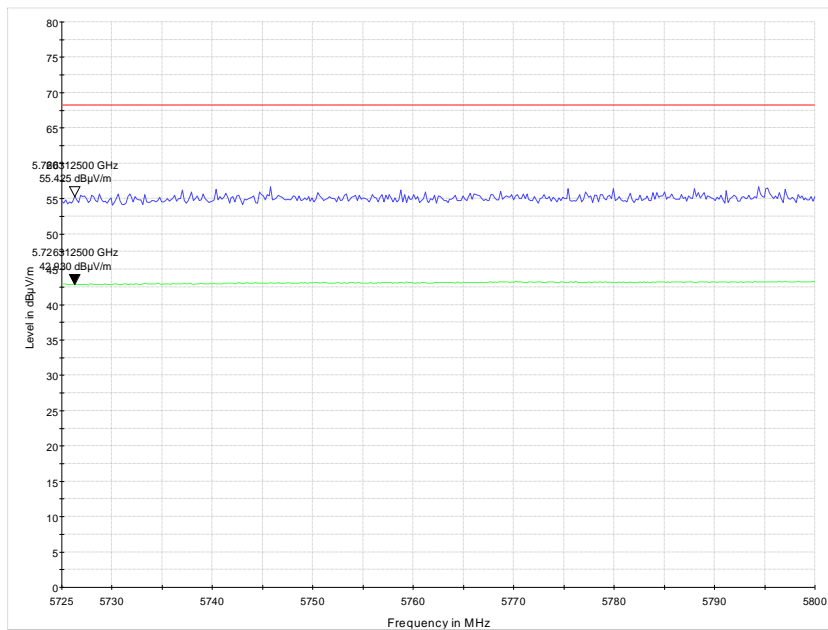
Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
(S03_AJ03)



Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S03_AJ03)

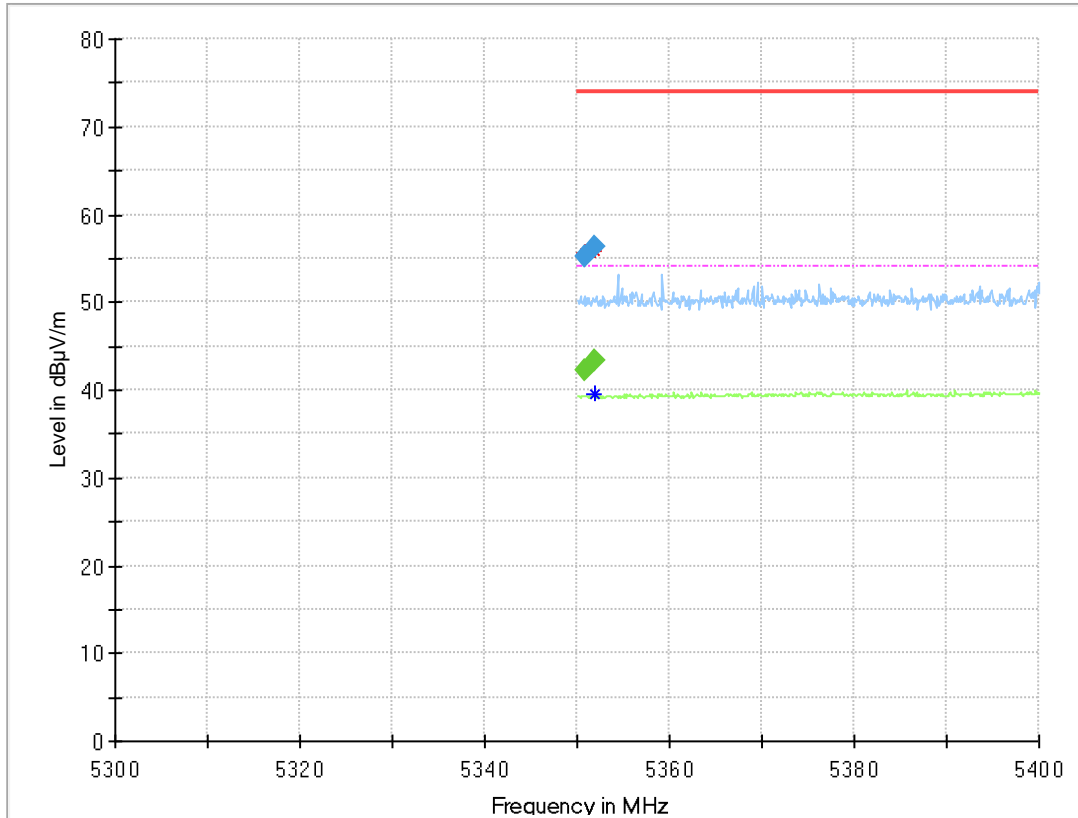


Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S03_AJ03)



**Conducted power settings for antenna gain > 9.0 dBi and ≤ 14.2 dBi
(see chapter 4.6)**

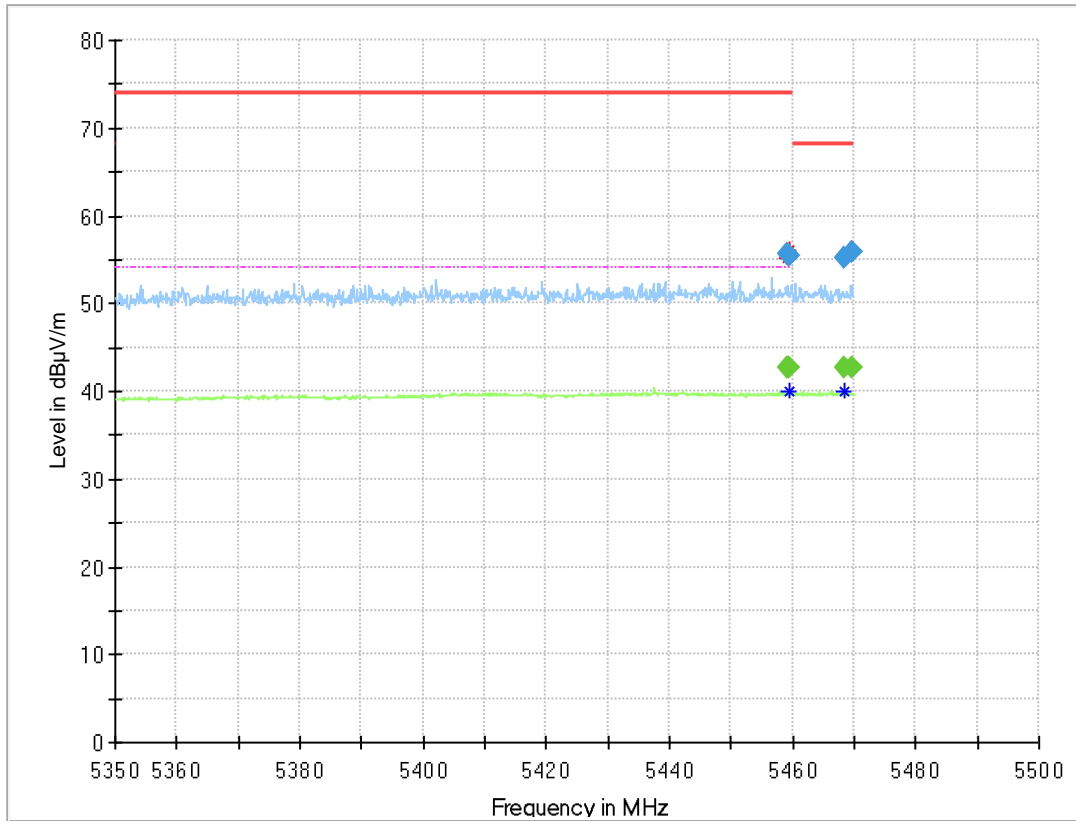
Radio Technology = WLAN a DIVERSITY, Operating Frequency = high, Subband = U-NII-2A (S05_AH03)



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)
5350.770	55.3	---	74.00	18.65	1000.0	1000.000	150.0	H	-187.0	105.0	14.1
5350.770	---	42.2	54.00	11.85	1000.0	1000.000	150.0	H	-187.0	105.0	14.1
5351.980	56.3	---	74.00	17.70	1000.0	1000.000	150.0	V	3.0	98.0	14.1
5351.980	---	43.3	54.00	10.67	1000.0	1000.000	150.0	V	3.0	98.0	14.1

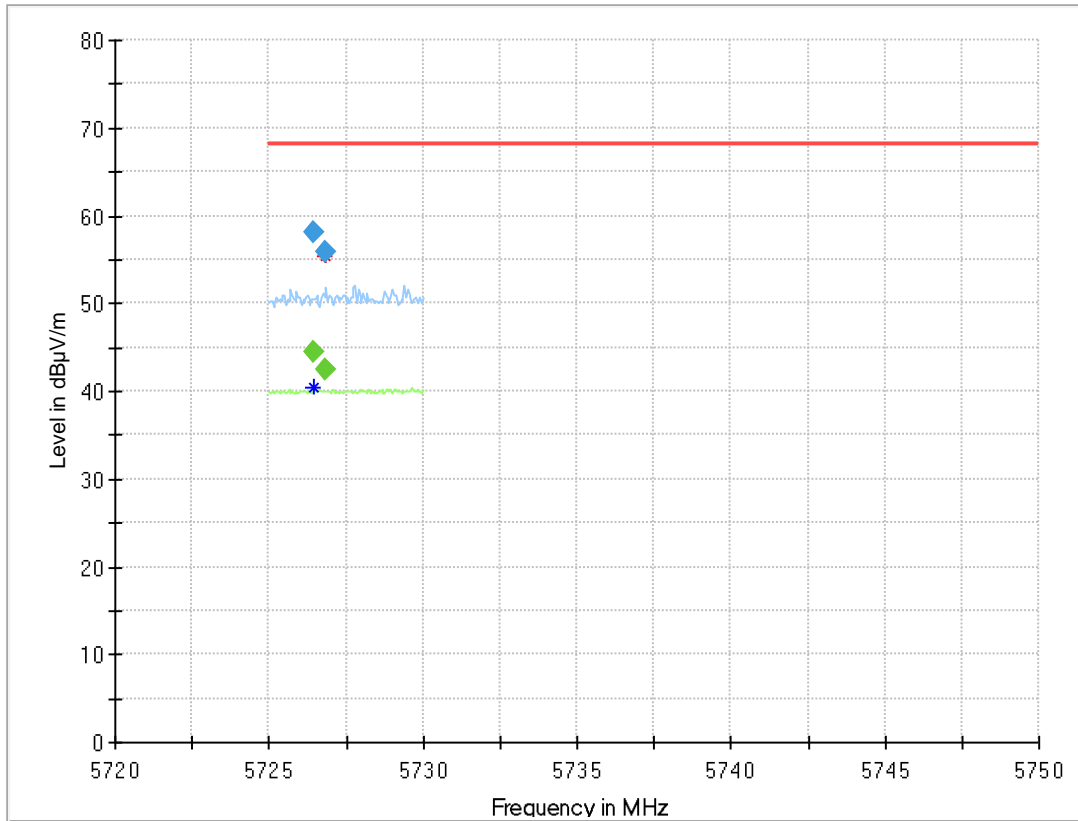
Radio Technology = WLAN a DIVERSITY, Operating Frequency = low, Subband = U-NII-2C (S05_AH03)



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)
5459.200	55.6	---	74.00	18.42	1000.0	1000.000	150.0	V	137.0	82.0	14.5
5459.200	---	42.6	54.00	11.38	1000.0	1000.000	150.0	V	137.0	82.0	14.5
5459.440	55.5	---	74.00	18.53	1000.0	1000.000	150.0	H	142.0	-15.0	14.5
5459.440	---	42.6	54.00	11.39	1000.0	1000.000	150.0	H	142.0	-15.0	14.5
5468.560	55.3	---	68.20	12.86	1000.0	1000.000	150.0	V	-177.0	-3.0	14.5
5468.560	---	42.7	---	---	1000.0	1000.000	150.0	V	-177.0	-3.0	14.5
5469.640	55.9	---	68.20	12.32	1000.0	1000.000	150.0	V	-83.0	-1.0	14.4
5469.640	---	42.6	---	---	1000.0	1000.000	150.0	V	-83.0	-1.0	14.4

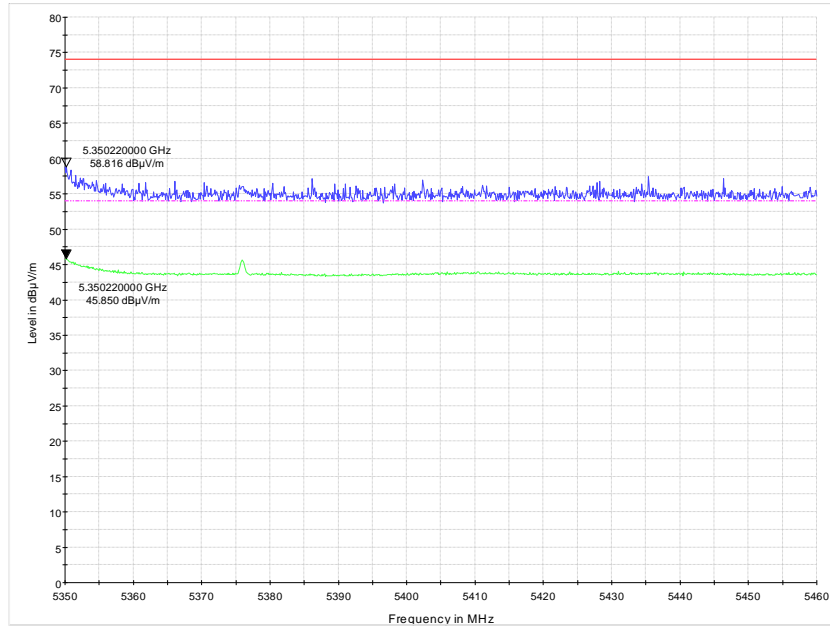
Radio Technology = WLAN a DIVERSITY, Operating Frequency = high, Subband = U-NII-2C (S05_AH03)



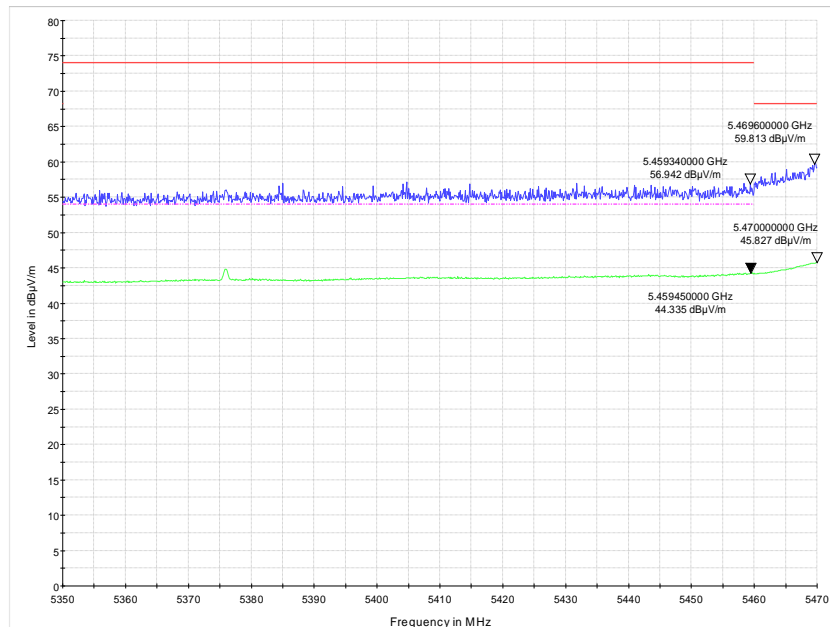
Final Result

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)
5726.450	---	44.5	---	---	1000.0	1000.000	150.0	H	6.0	100.0	14.2
5726.450	58.2	---	68.20	10.03	1000.0	1000.000	150.0	H	6.0	100.0	14.2
5726.850	---	42.5	---	---	1000.0	1000.000	150.0	H	90.0	85.0	14.2
5726.850	55.8	---	68.20	12.44	1000.0	1000.000	150.0	H	90.0	85.0	14.2

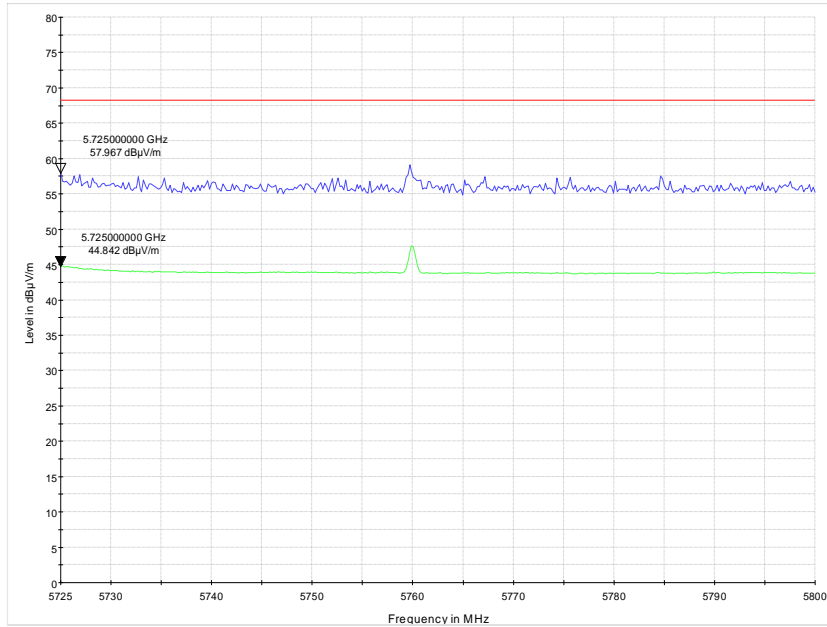
Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2A (S05_AH03)



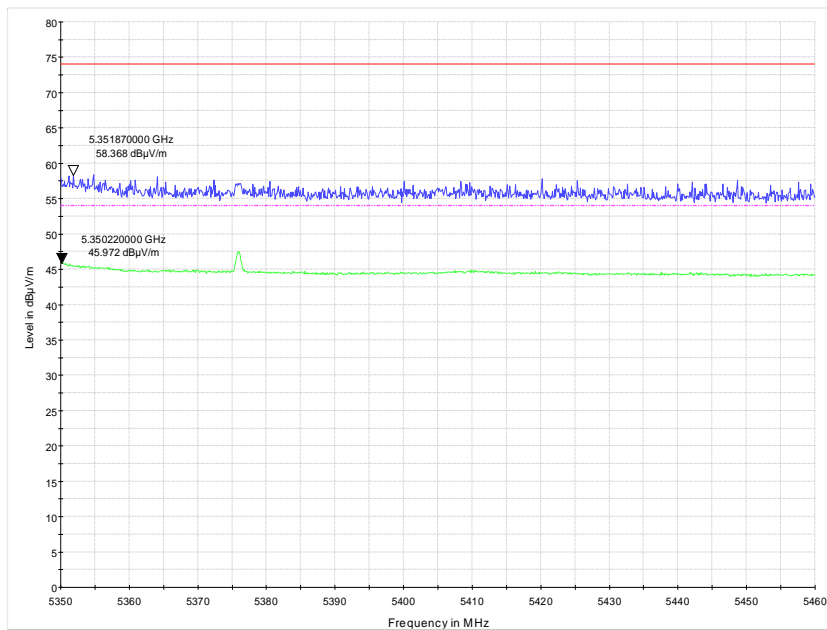
Radio Technology = WLAN a, Operating Frequency = low, Subband = U-NII-2C (S05_AH03)



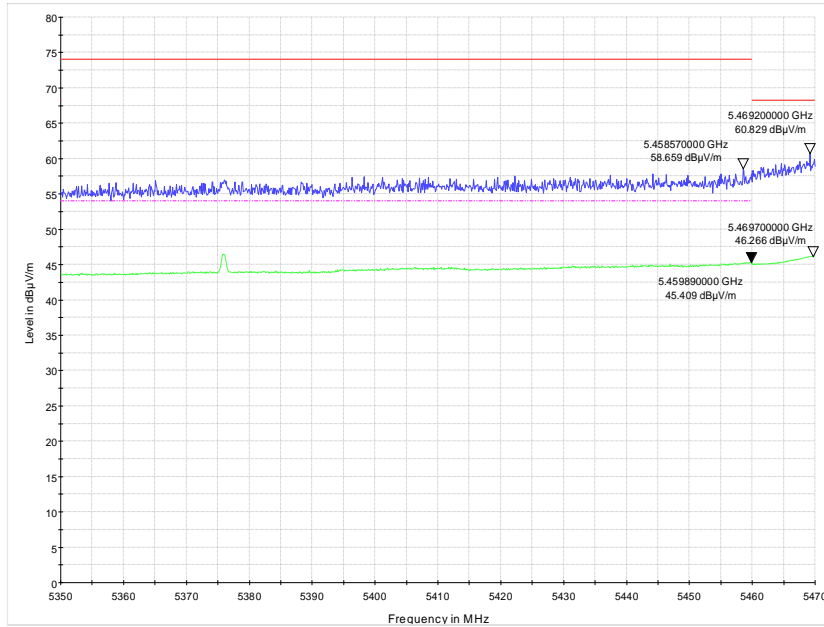
Radio Technology = WLAN a, Operating Frequency = high, Subband = U-NII-2C
(S05_AH03)



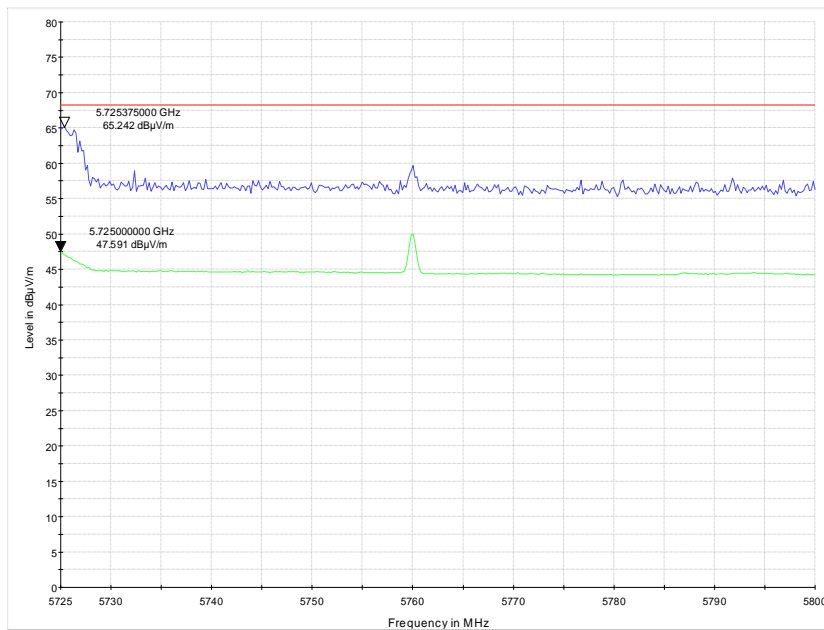
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
(S05_AH03)



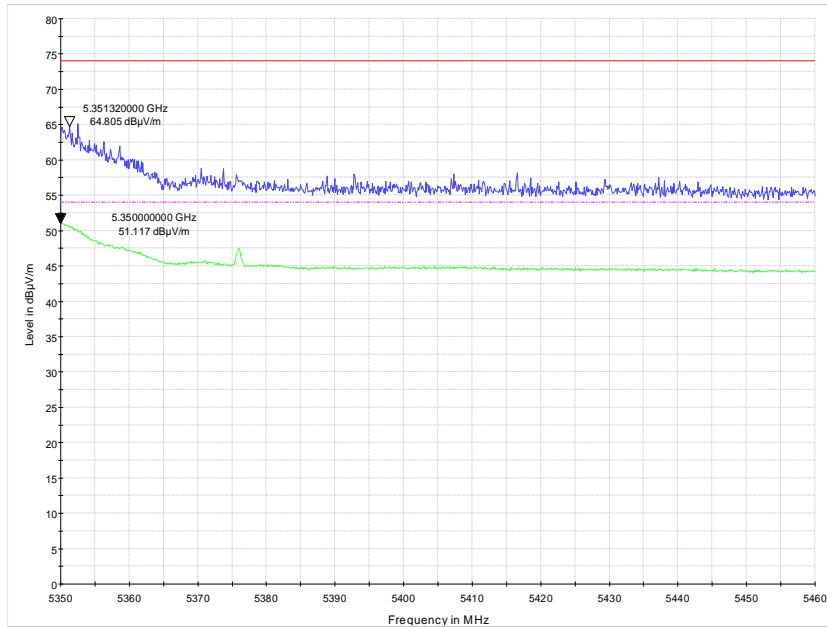
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S05_AH03)



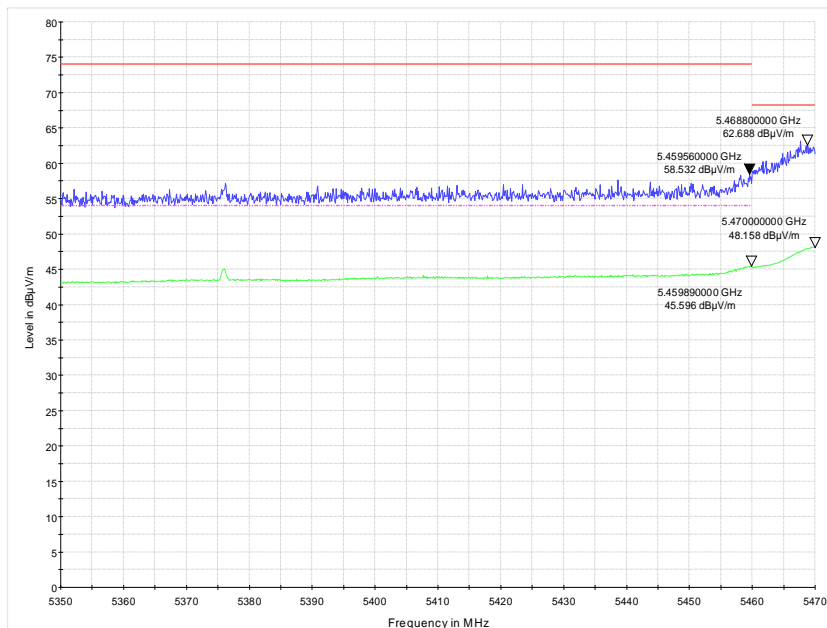
Radio Technology = WLAN ax 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S05_AH03)



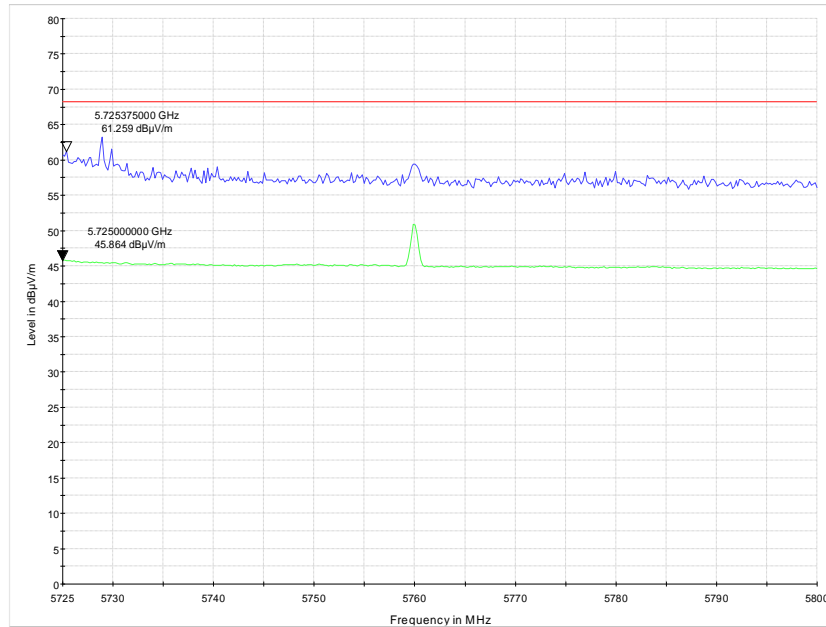
Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
 (S05_AH03)



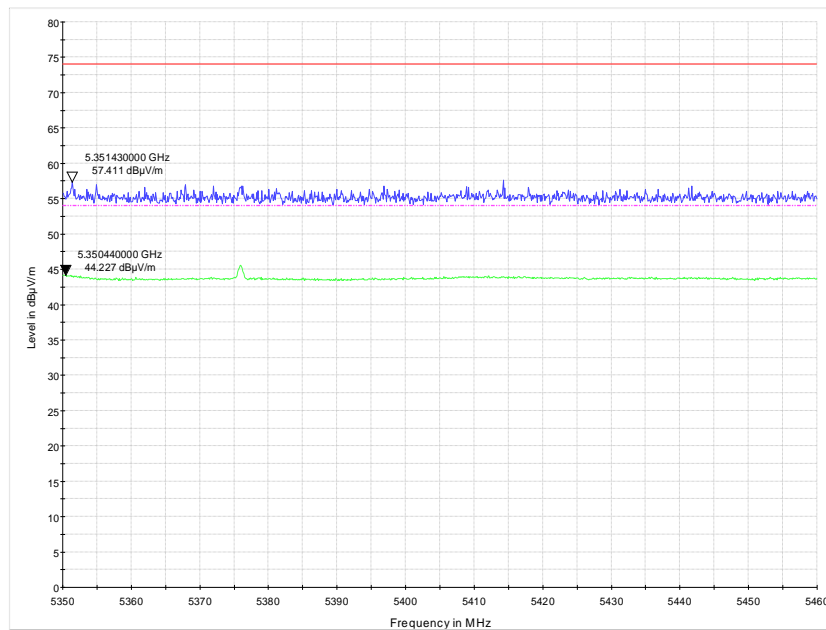
Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C
 (S05_AH03)



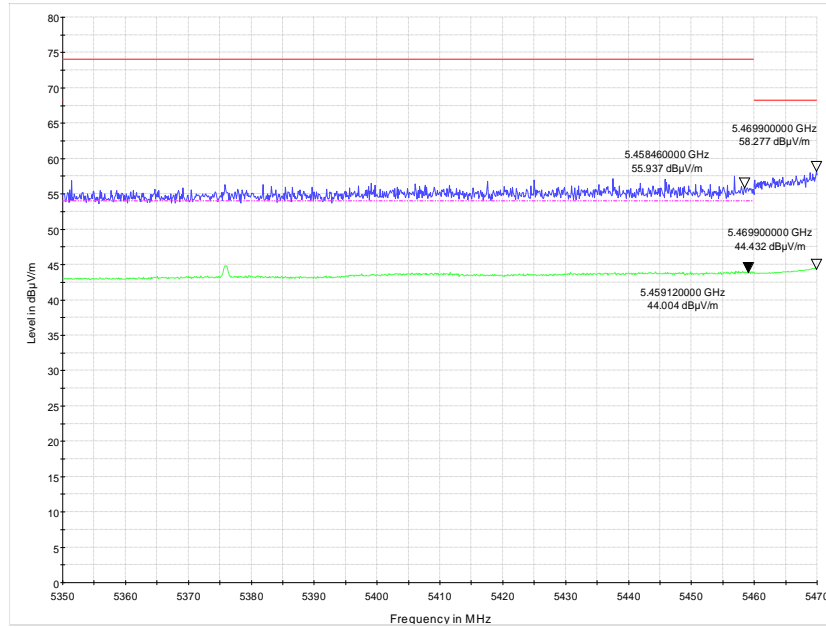
Radio Technology = WLAN ax 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C
 (S05_AH03)



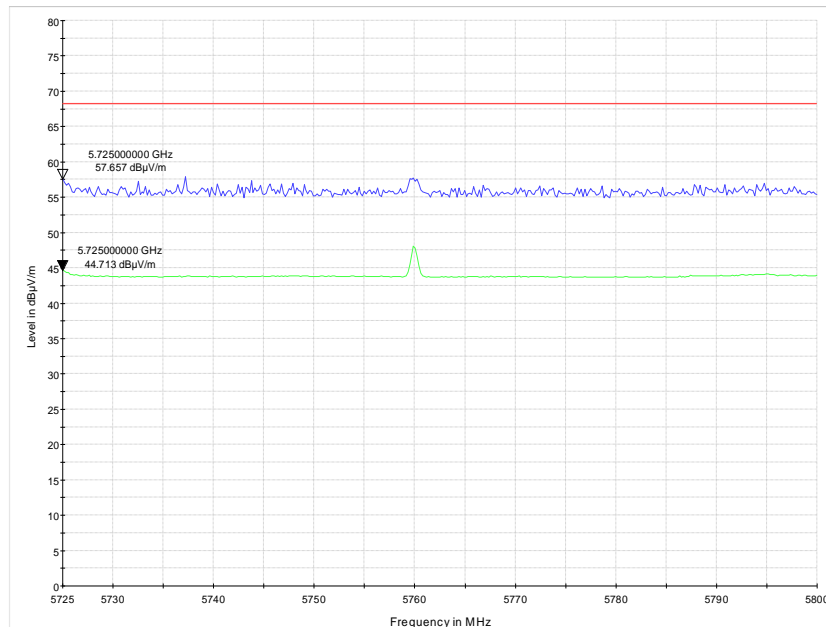
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
 (S05_AH03)



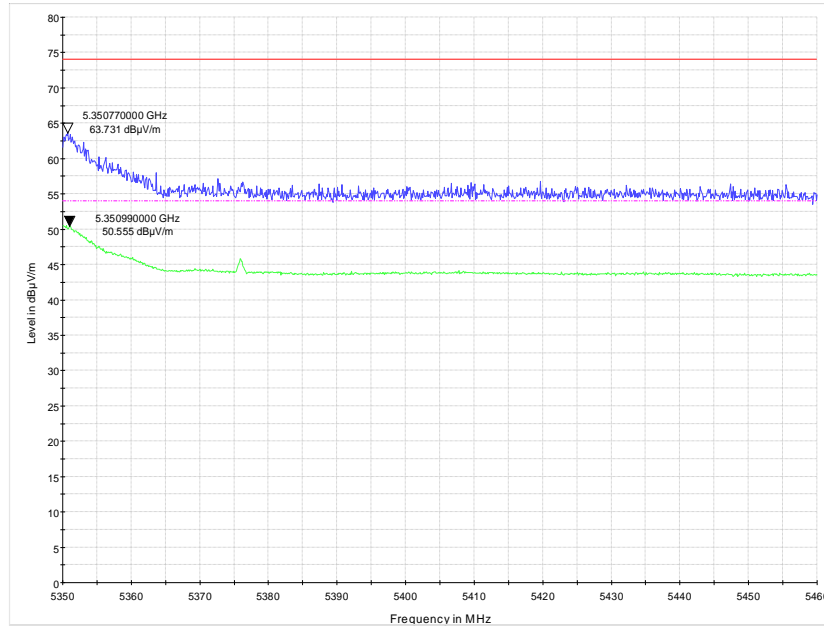
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S05_AH03)



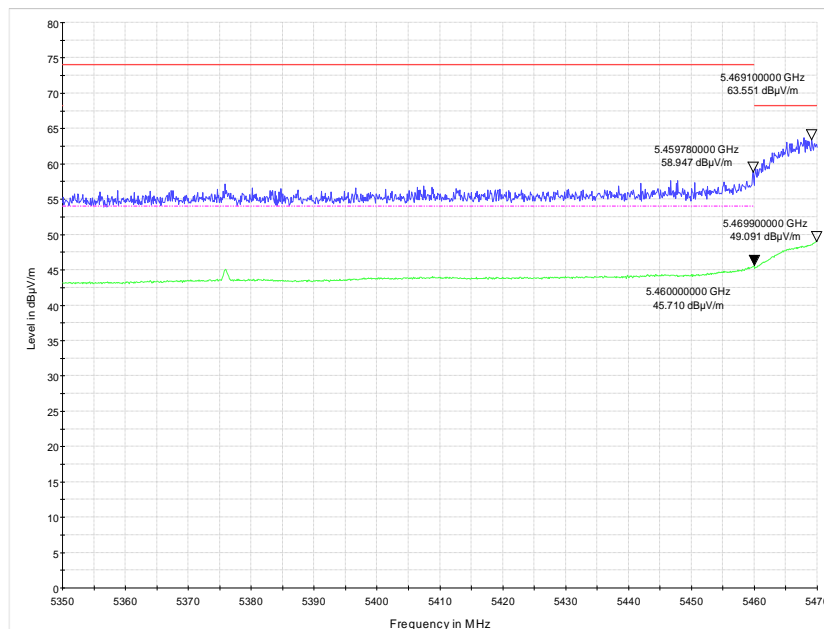
Radio Technology = WLAN n 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S05_AH03)



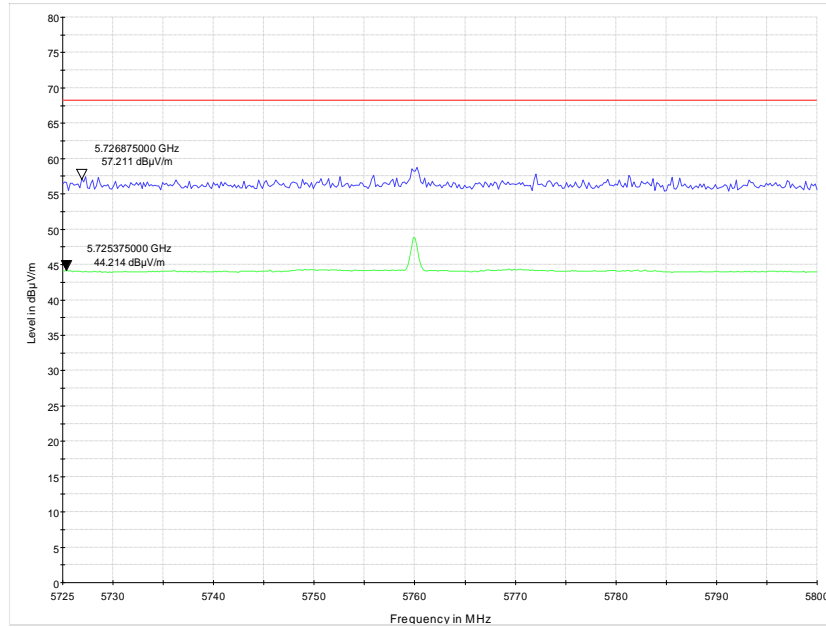
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S05_AH03)



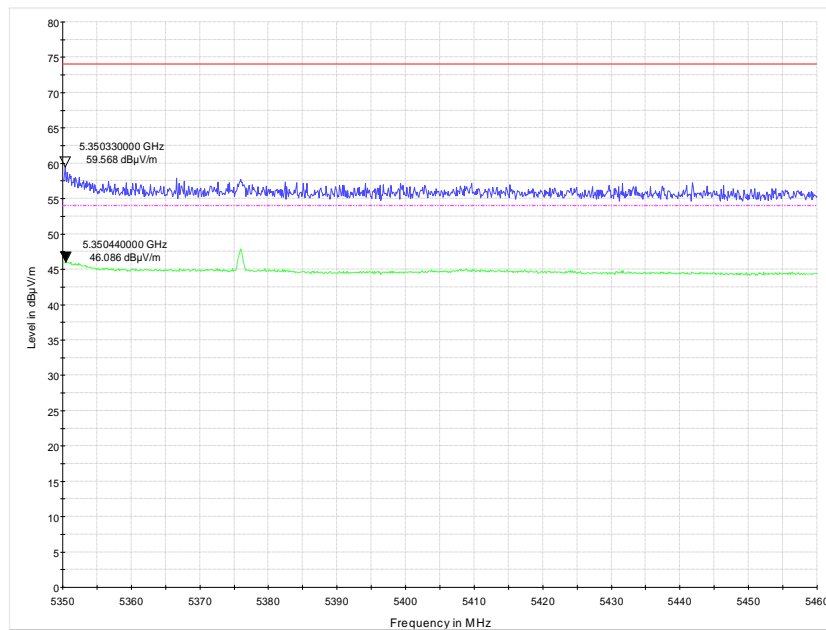
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S05_AH03)



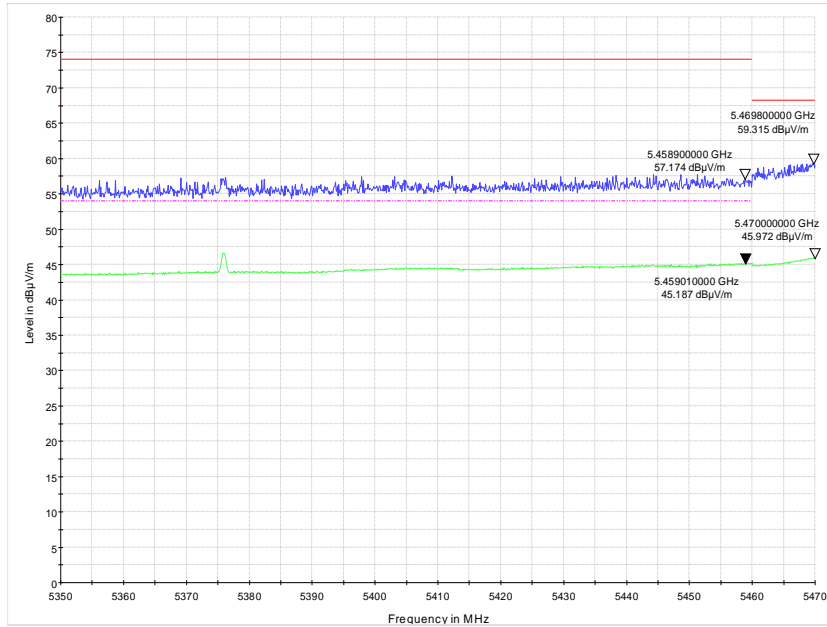
Radio Technology = WLAN n 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S05_AH03)



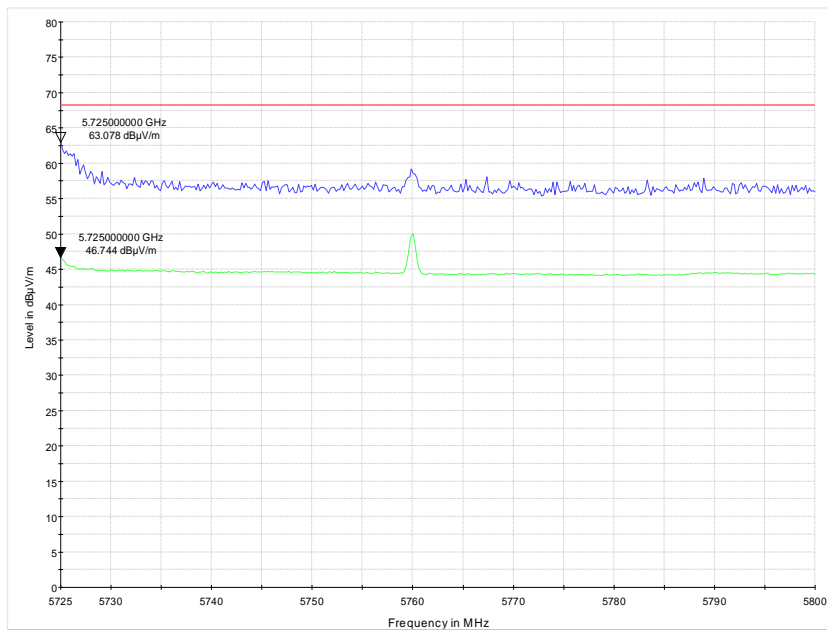
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A (S05_AH03)



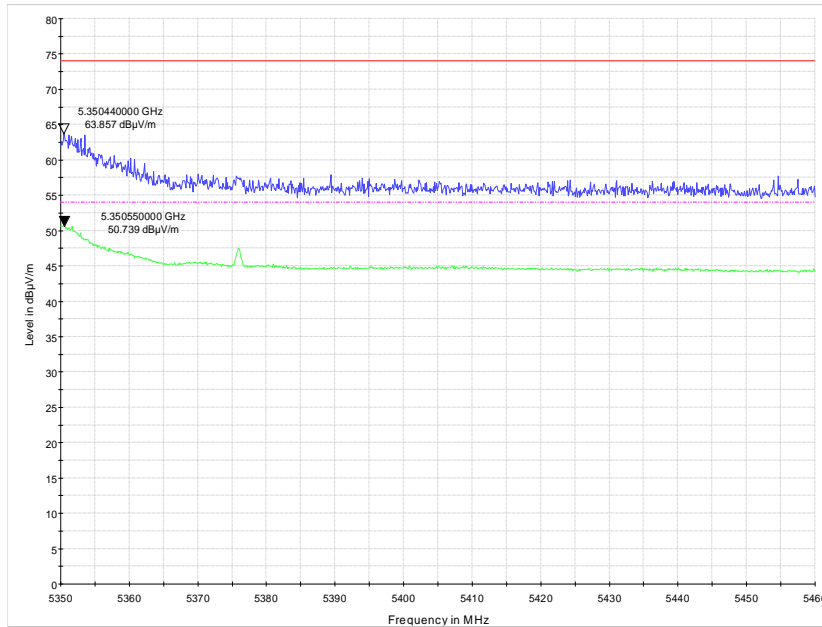
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C (S05_AH03)



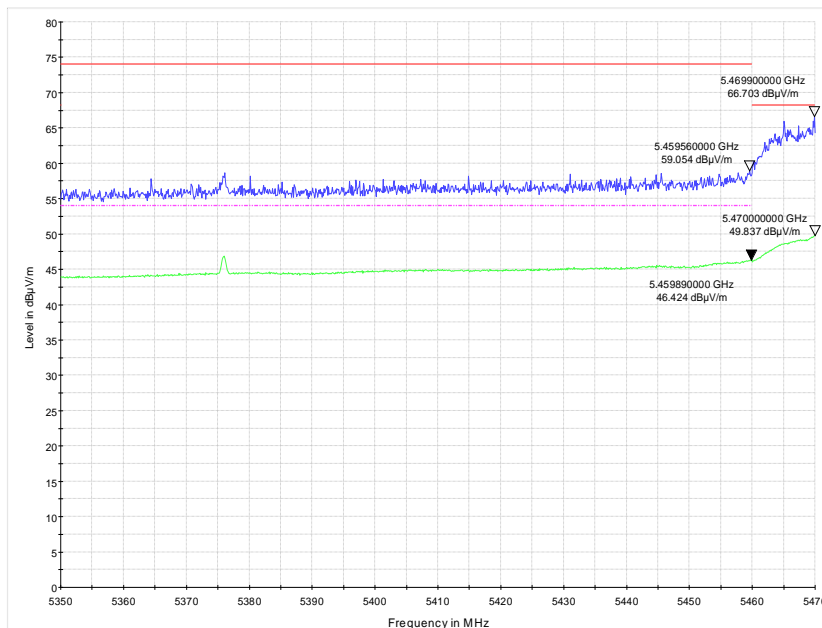
Radio Technology = WLAN ac 20 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C (S05_AH03)



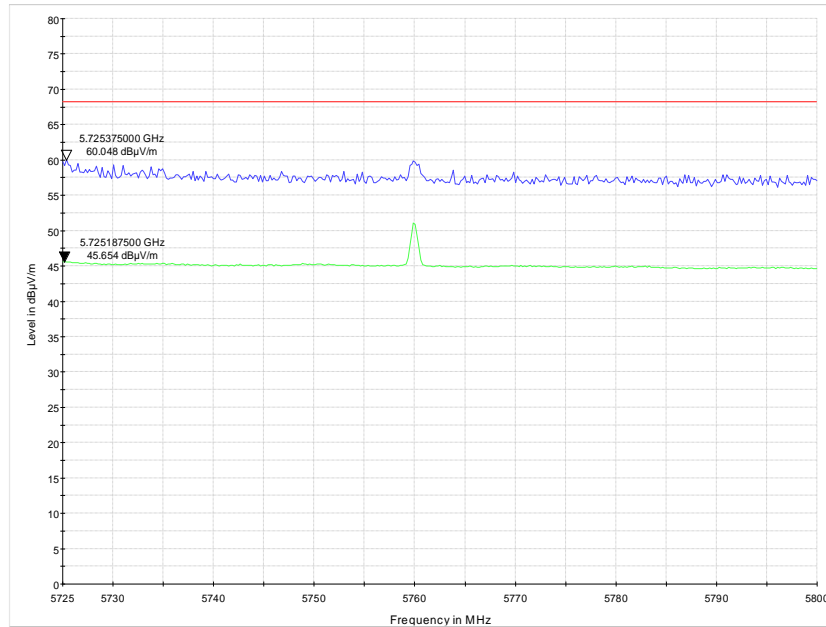
Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2A
 (S05_AH03)



Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = low, Subband = U-NII-2C
 (S05_AH03)



Radio Technology = WLAN ac 40 MHz MIMO, Operating Frequency = high, Subband = U-NII-2C
 (S05_AH03)



5.7.5 TEST EQUIPMENT USED

- Radiated Emissions

6 TEST EQUIPMENT

6.1 TEST EQUIPMENT HARDWARE

- 1 R&S TS8997
2.4 and 5 GHz Bands Conducted Test Lab

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
1.1	MFS	Rubidium Frequency Normal	Datum GmbH	002	2021-11	2022-11
1.2	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2021-10	2023-10
1.3	SMB100A	Signal Generator 9 kHz - 6 GHz	Rohde & Schwarz	107695	2021-06	2024-06
1.4	EX520	Digital Multimeter 12	Extech Instruments Corp	05157876	2022-06	2024-06
1.5	NGSM 32/10	Power Supply	Rohde & Schwarz GmbH & Co. KG	3456	2022-01	2024-01
1.6	Temperature Chamber KWP 120/70	Temperature Chamber Weiss 01	Weiss	59226012190010	2022-05	2024-05
1.7	Temperature Chamber VT 4002	Temperature Chamber Vötsch 03	Vötsch	58566002150010	2022-05	2024-05
1.8	FSW43	Signal analyser	Rohde & Schwarz GmbH & Co. KG	102013	2021-06	2023-06
1.9	Opus10 THI (8152.00)	T/H Logger 14	Lufft Mess- und Regeltechnik GmbH	13993	2021-08	2023-08
1.10	SMBV100A	Vector Signal Generator 9 kHz - 6 GHz	Rohde & Schwarz	259291	2019-11	2022-11
1.11	OSP120	Contains Power Meter and Switching Unit OSP-B157W8 PLUS	Rohde & Schwarz	101158	2021-08	2024-08
1.12	CMX500	Radio Communication Tester New Radio 5G	Rohde & Schwarz GmbH & Co. KG	101305-LP	2020-04	2023-04

2 Radiated Emissions
 Lab to perform radiated emission tests

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
2.1	MFS	Rubidium Frequency Normal	Datum GmbH	002	2021-11	2022-11
2.2	N5000/NP	Filter for EUT, 2 Lines, 250 V, 16 A	ETS-LINDGREN	241515	N/A	N/A
2.3	Opus10 TPR (8253.00)	T/P Logger 13	Lufft Mess- und Regeltechnik GmbH	13936	2021-10	2023-10
2.4	ESW44	EMI Receiver / Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	101603	2022-01	2024-01
2.5	Anechoic Chamber 01	SAC/FAR, 10.58 m x 6.38 m x 6.00 m	Frankonia	none	N/A	N/A
2.6	HL 562 ULTRALOG	Biconical-log-per antenna (30 MHz - 3 GHz) with HL 562E biconicals	Rohde & Schwarz GmbH & Co. KG	830547/003	2021-09	2024-09
2.7	AMF-7D00101800-30-10P-R	Broadband Amplifier 100 MHz - 18 GHz	Miteq		N/A	N/A
2.8	5HC2700/12750-1.5-KK	High Pass Filter	Trilithic	9942012	N/A	N/A
2.9	ASP 1.2/1.8-10 kg	Antenna Mast	Maturo GmbH	-	N/A	N/A
2.10	Anechoic Chamber 03	FAR, 8.80m x 4.60m x 4.05m (l x w x h)	Albatross Projects	P26971-647-001-PRB	2021-04	2023-04
2.11	Fluke 177	Digital Multimeter 03 (Multimeter)	Fluke Europe B.V.	86670383	2022-06	2024-06
2.12	Opus10 THI (8152.00)	T/H Logger 10	Lufft Mess- und Regeltechnik GmbH	12488	2021-08	2023-08
2.13	PONTIS Con4101	PONTIS Camera Controller		6061510370	N/A	N/A
2.14	JS4-18002600-32-5P	Broadband Amplifier 18 GHz - 26 GHz	Miteq	849785	N/A	N/A
2.15	FSW 43	Spectrum Analyzer	Rohde & Schwarz GmbH & Co. KG	103779	2021-06	2023-06
2.16	3160-09	Standard Gain / Pyramidal Horn Antenna 26.5 GHz	EMCO Elektronik GmbH	00083069	N/A	N/A
2.17	WHKX 7.0/18G-8SS	High Pass Filter	Wainwright Instruments GmbH	09	N/A	N/A
2.18	DS 420S	Turn Table 2 m diameter	HD GmbH	420/573/99	N/A	N/A
2.19	4HC1600/12750-1.5-KK	High Pass Filter	Trilithic	9942011	N/A	N/A

Ref.No.	Device Name	Description	Manufacturer	Serial Number	Last Calibration	Calibration Due
2.20	JS4-00102600-42-5A	Broadband Amplifier 30 MHz - 26 GHz	Miteq	619368	N/A	N/A
2.21	TT 1.5 WI	Turn Table	Maturo GmbH	-	N/A	N/A
2.22	3160-10	Standard Gain / Pyramidal Horn Antenna 40 GHz	EMCO Elektronik GmbH	00086675	N/A	N/A
2.23	MA4985-XP-ET	Bore Sight Antenna Mast	innco systems GmbH	none	N/A	N/A
2.24	VLFX-650+	Low Pass Filter DC650 MHz	Mini-Circuits	15542	N/A	N/A
2.25	JUN-AIR Mod. 6-15	Air Compressor	JUN-AIR Deutschland GmbH	612582	N/A	N/A
2.26	5HC3500/18000-1.2-KK	High Pass Filter	Trilithic	200035008	N/A	N/A
2.27	HFH2-Z2	Loop Antenna + 3 Axis Tripod	Rohde & Schwarz GmbH & Co. KG	829324/006	2021-01	2024-01
2.28	Voltcraft M-3860M	Digital Multimeter 01 (Multimeter)	Conrad	IJ096055	N/A	N/A
2.29	SB4-100.OLD20-3T/10 Airwin 2 x 1.5 kW	Air compressor (oil-free)	airWin Kompressoren UG	901/00503	N/A	N/A
2.30	UNI-T UT195E	True RMS Digital Multimeter	UNI-T UNI-TREND TECHNOLOGY (CHINA) CO., LTD.	C190729561	N/A	N/A
2.31	JS4-00101800-35-5P	Broadband Amplifier 30 MHz - 18 GHz	Miteq	896037	N/A	N/A
2.32	AS 620 P	Antenna Mast (pneumatic polarisation)	HD GmbH	620/37	N/A	N/A
2.33	TD1.5-10kg	EUT Tilt Device (Rohacell)	Maturo GmbH	TD1.5-10kg/024/3790709	N/A	N/A
2.34	Innco Systems CO3000	Controller for bore sight mast SAC	innco systems GmbH	CO3000/967/39371016/L	N/A	N/A
2.35	HF 907-2	Double-ridged horn	Rohde & Schwarz	102817	2022-07	2025-07
2.36	PAS 2.5 - 10 kg	Antenna Mast	Maturo GmbH	-		
2.37	CMX500	Radio Communication Tester New Radio 5G	Rohde & Schwarz GmbH & Co. KG	101305-LP	2020-04	2023-04
2.38	AM 4.0	Antenna Mast 4 m	Maturo GmbH	AM4.0/180/11920513	N/A	N/A
2.39	HF 907	Double-ridged horn	Rohde & Schwarz	102444	2021-09	2024-09

The calibration interval is the time interval between "Last Calibration" and "Calibration Due"

6.2 TEST EQUIPMENT SOFTWARE

Semi-Anechoic Chamber:	
Software	Version
EMC32 Measurement Software	10.60.10
INNCO Mast Controller	1.02.62
MATURO Mast Controller	12.19
MATURO Turn-Table Controller	30.10
Fully-Anechoic Chamber:	
Software	Version
EMC32 Measurement Software	10.60.10
MATURO Turn-Unit Cotrolller	11.10
MATURO Mast Controller	12.10
MATURO Turntable Controller	12.11
Conducted AC Emissions:	
Software	Version
EMC32 Measurement Software	10.60.20

7 ANTENNA FACTORS, CABLE LOSS AND SAMPLE CALCULATIONS

This chapter contains the antenna factors with their corresponding path loss of the used measurement path for all antennas as well as the insertion loss of the LISN.

7.1 LISN R&S ESH3-Z5 (150 KHZ – 30 MHZ)

Frequency MHz	Corr. dB	LISN insertion loss ESH3- Z5 dB	cable loss (incl. 10 dB atten- uator) dB
0.15	10.1	0.1	10.0
5	10.3	0.1	10.2
7	10.5	0.2	10.3
10	10.5	0.2	10.3
12	10.7	0.3	10.4
14	10.7	0.3	10.4
16	10.8	0.4	10.4
18	10.9	0.4	10.5
20	10.9	0.4	10.5
22	11.1	0.5	10.6
24	11.1	0.5	10.6
26	11.2	0.5	10.7
28	11.2	0.5	10.7
30	11.3	0.5	10.8

Sample calculation

$$U_{LISN} \text{ (dB } \mu\text{V)} = U \text{ (dB } \mu\text{V)} + \text{Corr. (dB)}$$

U = Receiver reading

LISN Insertion loss = Voltage Division Factor of LISN

Corr. = sum of single correction factors of used LISN, cables, switch units (if used)

Linear interpolation will be used for frequencies in between the values in the table.

7.2 ANTENNA R&S HFH2-Z2 (9 KHZ – 30 MHZ)

Frequency MHz	AF HFH-Z2) dB (1/m)	Corr. dB	cable loss 1 (inside chamber) dB	cable loss 2 (outside chamber) dB	cable loss 3 (switch unit) dB	cable loss 4 (to receiver) dB	distance corr. (-40 dB/ decade) dB	d _{Limit} (meas. distance (limit) m	d _{used} (meas. distance (used) m
0.009	20.50	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.01	20.45	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.015	20.37	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.02	20.36	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.025	20.38	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.03	20.32	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.05	20.35	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.08	20.30	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.1	20.20	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.2	20.17	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.3	20.14	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.49	20.12	-79.6	0.1	0.1	0.1	0.1	-80	300	3
0.490001	20.12	-39.6	0.1	0.1	0.1	0.1	-40	30	3
0.5	20.11	-39.6	0.1	0.1	0.1	0.1	-40	30	3
0.8	20.10	-39.6	0.1	0.1	0.1	0.1	-40	30	3
1	20.09	-39.6	0.1	0.1	0.1	0.1	-40	30	3
2	20.08	-39.6	0.1	0.1	0.1	0.1	-40	30	3
3	20.06	-39.6	0.1	0.1	0.1	0.1	-40	30	3
4	20.05	-39.5	0.2	0.1	0.1	0.1	-40	30	3
5	20.05	-39.5	0.2	0.1	0.1	0.1	-40	30	3
6	20.02	-39.5	0.2	0.1	0.1	0.1	-40	30	3
8	19.95	-39.5	0.2	0.1	0.1	0.1	-40	30	3
10	19.83	-39.4	0.2	0.1	0.2	0.1	-40	30	3
12	19.71	-39.4	0.2	0.1	0.2	0.1	-40	30	3
14	19.54	-39.4	0.2	0.1	0.2	0.1	-40	30	3
16	19.53	-39.3	0.3	0.1	0.2	0.1	-40	30	3
18	19.50	-39.3	0.3	0.1	0.2	0.1	-40	30	3
20	19.57	-39.3	0.3	0.1	0.2	0.1	-40	30	3
22	19.61	-39.3	0.3	0.1	0.2	0.1	-40	30	3
24	19.61	-39.3	0.3	0.1	0.2	0.1	-40	30	3
26	19.54	-39.3	0.3	0.1	0.2	0.1	-40	30	3
28	19.46	-39.2	0.3	0.1	0.3	0.1	-40	30	3
30	19.73	-39.1	0.4	0.1	0.3	0.1	-40	30	3

Sample calculation

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + AF \text{ (dB 1/m)} + Corr. \text{ (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

distance correction = $-40 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values

7.3 ANTENNA R&S HL562 (30 MHZ – 1 GHZ)

($d_{Limit} = 3\text{ m}$)

Frequency MHz	AF R&S HL562 dB (1/m)	Corr. dB
30	18.6	0.6
50	6.0	0.9
100	9.7	1.2
150	7.9	1.6
200	7.6	1.9
250	9.5	2.1
300	11.0	2.3
350	12.4	2.6
400	13.6	2.9
450	14.7	3.1
500	15.6	3.2
550	16.3	3.5
600	17.2	3.5
650	18.1	3.6
700	18.5	3.6
750	19.1	4.1
800	19.6	4.1
850	20.1	4.4
900	20.8	4.7
950	21.1	4.8
1000	21.6	4.9

cable loss 1 (inside chamber) dB	cable loss 2 (outside chamber) dB	cable loss 3 (switch unit) dB	cable loss 4 (to receiver) dB	distance corr. (-20 dB/ decade) dB	d_{Limit} (meas. distance (limit)) m	d_{used} (meas. distance (used)) m
0.29	0.04	0.23	0.02	0.0	3	3
0.39	0.09	0.32	0.08	0.0	3	3
0.56	0.14	0.47	0.08	0.0	3	3
0.73	0.20	0.59	0.12	0.0	3	3
0.84	0.21	0.70	0.11	0.0	3	3
0.98	0.24	0.80	0.13	0.0	3	3
1.04	0.26	0.89	0.15	0.0	3	3
1.18	0.31	0.96	0.13	0.0	3	3
1.28	0.35	1.03	0.19	0.0	3	3
1.39	0.38	1.11	0.22	0.0	3	3
1.44	0.39	1.20	0.19	0.0	3	3
1.55	0.46	1.24	0.23	0.0	3	3
1.59	0.43	1.29	0.23	0.0	3	3
1.67	0.34	1.35	0.22	0.0	3	3
1.67	0.42	1.41	0.15	0.0	3	3
1.87	0.54	1.46	0.25	0.0	3	3
1.90	0.46	1.51	0.25	0.0	3	3
1.99	0.60	1.56	0.27	0.0	3	3
2.14	0.60	1.63	0.29	0.0	3	3
2.22	0.60	1.66	0.33	0.0	3	3
2.23	0.61	1.71	0.30	0.0	3	3

($d_{Limit} = 10\text{ m}$)

30	18.6	-9.9
50	6.0	-9.6
100	9.7	-9.2
150	7.9	-8.8
200	7.6	-8.6
250	9.5	-8.3
300	11.0	-8.1
350	12.4	-7.9
400	13.6	-7.6
450	14.7	-7.4
500	15.6	-7.2
550	16.3	-7.0
600	17.2	-6.9
650	18.1	-6.9
700	18.5	-6.8
750	19.1	-6.3
800	19.6	-6.3
850	20.1	-6.0
900	20.8	-5.8
950	21.1	-5.6
1000	21.6	-5.6

0.29	0.04	0.23	0.02	-10.5	10	3
0.39	0.09	0.32	0.08	-10.5	10	3
0.56	0.14	0.47	0.08	-10.5	10	3
0.73	0.20	0.59	0.12	-10.5	10	3
0.84	0.21	0.70	0.11	-10.5	10	3
0.98	0.24	0.80	0.13	-10.5	10	3
1.04	0.26	0.89	0.15	-10.5	10	3
1.18	0.31	0.96	0.13	-10.5	10	3
1.28	0.35	1.03	0.19	-10.5	10	3
1.39	0.38	1.11	0.22	-10.5	10	3
1.44	0.39	1.20	0.19	-10.5	10	3
1.55	0.46	1.24	0.23	-10.5	10	3
1.59	0.43	1.29	0.23	-10.5	10	3
1.67	0.34	1.35	0.22	-10.5	10	3
1.67	0.42	1.41	0.15	-10.5	10	3
1.87	0.54	1.46	0.25	-10.5	10	3
1.90	0.46	1.51	0.25	-10.5	10	3
1.99	0.60	1.56	0.27	-10.5	10	3
2.14	0.60	1.63	0.29	-10.5	10	3
2.22	0.60	1.66	0.33	-10.5	10	3
2.23	0.61	1.71	0.30	-10.5	10	3

Sample calculation

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + \text{AF (dB 1/m)} + \text{Corr. (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

distance correction = $-20 * \text{LOG} (d_{Limit} / d_{used})$

Linear interpolation will be used for frequencies in between the values in the table.

Tables show an extract of values.

7.4 ANTENNA R&S HF907 (1 GHZ – 18 GHZ)

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
1000	24.4	-19.4
2000	28.5	-17.4
3000	31.0	-16.1
4000	33.1	-14.7
5000	34.4	-13.7
6000	34.7	-12.7
7000	35.6	-11.0

cable loss 1 (relay + cable inside chamber)	cable loss 2 (outside chamber)	cable loss 3 (switch unit, attenuator & pre-amp)	cable loss 4 (to receiver)
dB	dB	dB	dB
0.99	0.31	-21.51	0.79
1.44	0.44	-20.63	1.38
1.87	0.53	-19.85	1.33
2.41	0.67	-19.13	1.31
2.78	0.86	-18.71	1.40
2.74	0.90	-17.83	1.47
2.82	0.86	-16.19	1.46

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
3000	31.0	-23.4
4000	33.1	-23.3
5000	34.4	-21.7
6000	34.7	-21.2
7000	35.6	-19.8

cable loss 1 (relay inside chamber)	cable loss 2 (inside chamber)	cable loss 3 (outside chamber)	cable loss 4 (switch unit, attenuator & pre-amp)	cable loss 5 (to receiver)	used for FCC 15.247
dB	dB	dB	dB	dB	
0.47	1.87	0.53	-27.58	1.33	
0.56	2.41	0.67	-28.23	1.31	
0.61	2.78	0.86	-27.35	1.40	
0.58	2.74	0.90	-26.89	1.47	
0.66	2.82	0.86	-25.58	1.46	

Frequency	AF R&S HF907	Corr.
MHz	dB (1/m)	dB
7000	35.6	-57.3
8000	36.3	-56.3
9000	37.1	-55.3
10000	37.5	-56.2
11000	37.5	-55.3
12000	37.6	-53.7
13000	38.2	-53.5
14000	39.9	-56.3
15000	40.9	-54.1
16000	41.3	-54.1
17000	42.8	-54.4
18000	44.2	-54.7

cable loss 1 (relay inside chamber)	cable loss 2 (High Pass)	cable loss 3 (pre-amp)	cable loss 4 (inside chamber)	cable loss 5 (outside chamber)	cable loss 6 (to receiver)
dB	dB	dB	dB	dB	dB
0.56	1.28	-62.72	2.66	0.94	1.46
0.69	0.71	-61.49	2.84	1.00	1.53
0.68	0.65	-60.80	3.06	1.09	1.60
0.70	0.54	-61.91	3.28	1.20	1.67
0.80	0.61	-61.40	3.43	1.27	1.70
0.84	0.42	-59.70	3.53	1.26	1.73
0.83	0.44	-59.81	3.75	1.32	1.83
0.91	0.53	-63.03	3.91	1.40	1.77
0.98	0.54	-61.05	4.02	1.44	1.83
1.23	0.49	-61.51	4.17	1.51	1.85
1.36	0.76	-62.36	4.34	1.53	2.00
1.70	0.53	-62.88	4.41	1.55	1.91

Sample calculation

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + \text{AF (dB 1/m)} + \text{Corr. (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the table.

Tables show an extract of values.

7.5 ANTENNA EMCO 3160-09 (18 GHZ – 26.5 GHZ)

Frequency MHz	AF EMCO 3160-09 dB (1/m)	Corr. dB
18000	40.2	-23.5
18500	40.2	-23.2
19000	40.2	-22.0
19500	40.3	-21.3
20000	40.3	-20.3
20500	40.3	-19.9
21000	40.3	-19.1
21500	40.3	-19.1
22000	40.3	-18.7
22500	40.4	-19.0
23000	40.4	-19.5
23500	40.4	-19.3
24000	40.4	-19.8
24500	40.4	-19.5
25000	40.4	-19.3
25500	40.5	-20.4
26000	40.5	-21.3
26500	40.5	-21.1

cable loss 1 (inside chamber) dB	cable loss 2 (pre- amp) dB	cable loss 3 (inside chamber) dB	cable loss 4 (switch unit) dB	cable loss 5 (to receiver) dB
0.72	-35.85	6.20	2.81	2.65
0.69	-35.71	6.46	2.76	2.59
0.76	-35.44	6.69	3.15	2.79
0.74	-35.07	7.04	3.11	2.91
0.72	-34.49	7.30	3.07	3.05
0.78	-34.46	7.48	3.12	3.15
0.87	-34.07	7.61	3.20	3.33
0.90	-33.96	7.47	3.28	3.19
0.89	-33.57	7.34	3.35	3.28
0.87	-33.66	7.06	3.75	2.94
0.88	-33.75	6.92	3.77	2.70
0.90	-33.35	6.99	3.52	2.66
0.88	-33.99	6.88	3.88	2.58
0.91	-33.89	7.01	3.93	2.51
0.88	-33.00	6.72	3.96	2.14
0.89	-34.07	6.90	3.66	2.22
0.86	-35.11	7.02	3.69	2.28
0.90	-35.20	7.15	3.91	2.36

Sample calculation

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + \text{AF (dB 1/m)} + \text{Corr. (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values.

7.6 ANTENNA EMCO 3160-10 (26.5 GHZ – 40 GHZ)

Frequency GHz	AF EMCO 3160-10 dB (1/m)	Corr. dB	cable loss 1 (inside chamber) dB	cable loss 2 (outside chamber) dB	cable loss 3 (switch unit) dB	cable loss 4 (to receiver) dB	distance corr. (-20 dB/ decade) dB	d _{Limit} (meas. distance (limit) m	d _{used} (meas. distance (used) m
26.5	43.4	-11.2	4.4				-9.5	3	1.0
27.0	43.4	-11.2	4.4				-9.5	3	1.0
28.0	43.4	-11.1	4.5				-9.5	3	1.0
29.0	43.5	-11.0	4.6				-9.5	3	1.0
30.0	43.5	-10.9	4.7				-9.5	3	1.0
31.0	43.5	-10.8	4.7				-9.5	3	1.0
32.0	43.5	-10.7	4.8				-9.5	3	1.0
33.0	43.6	-10.7	4.9				-9.5	3	1.0
34.0	43.6	-10.6	5.0				-9.5	3	1.0
35.0	43.6	-10.5	5.1				-9.5	3	1.0
36.0	43.6	-10.4	5.1				-9.5	3	1.0
37.0	43.7	-10.3	5.2				-9.5	3	1.0
38.0	43.7	-10.2	5.3				-9.5	3	1.0
39.0	43.7	-10.2	5.4				-9.5	3	1.0
40.0	43.8	-10.1	5.5				-9.5	3	1.0

Sample calculation

$$E \text{ (dB } \mu\text{V/m)} = U \text{ (dB } \mu\text{V)} + \text{AF (dB 1/m)} + \text{Corr. (dB)}$$

U = Receiver reading

AF = Antenna factor

Corr. = sum of single correction factors of used cables, switch unit, distance correction, amplifier (if applicable)

Linear interpolation will be used for frequencies in between the values in the table.

distance correction = $-20 * \text{LOG} (d_{\text{Limit}} / d_{\text{used}})$

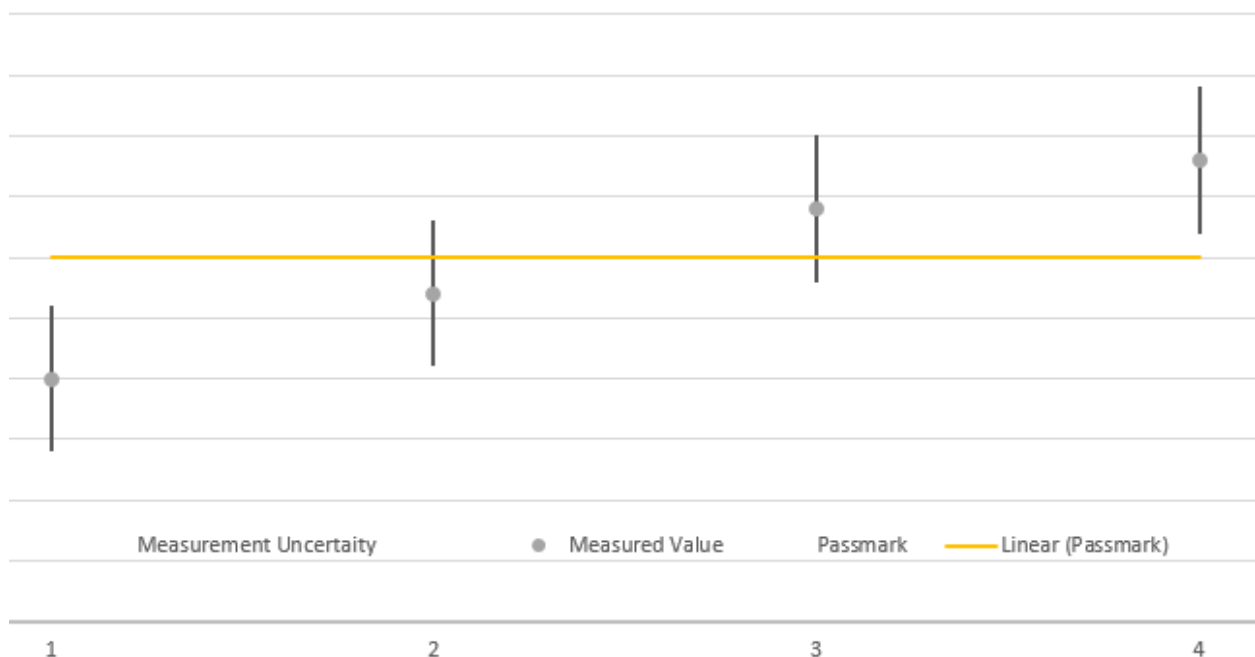
Linear interpolation will be used for frequencies in between the values in the table.

Table shows an extract of values.

8 MEASUREMENT UNCERTAINTIES

Test Case	Parameter	Uncertainty
AC Power Line	Power	± 3.4 dB
Field Strength of spurious radiation	Power	± 5.5 dB
6 dB / 26 dB / 99% Bandwidth	Power Frequency	± 2.9 dB ± 11.2 kHz
Conducted Output Power	Power	± 2.2 dB
Band Edge Compliance	Power Frequency	± 2.2 dB ± 11.2 kHz
Frequency Stability	Frequency	± 25 Hz
Power Spectral Density	Power	± 2.2 dB

The measurement uncertainties for all parameters are calculated with an expansion factor (coverage factor) $k = 1.96$. This means, that the true value is in the corresponding interval with a probability of 95 %.



The verdicts in this test report are given according the above diagram:

Case	Measured Value	Uncertainty Range	Verdict
1	below pass mark	below pass mark	Passed
2	below pass mark	within pass mark	Passed
3	above pass mark	within pass mark	Failed
4	above pass mark	above pass mark	Failed

That means, the laboratory applies, as decision rule (see ISO/IEC 17025:2017), the so called shared risk principle.

9 PHOTO REPORT

Please see separate photo report.