

Figure 273: Maximum Power Spectral Density, 802.11ac-80, MIMO, RF1, 5210MHz

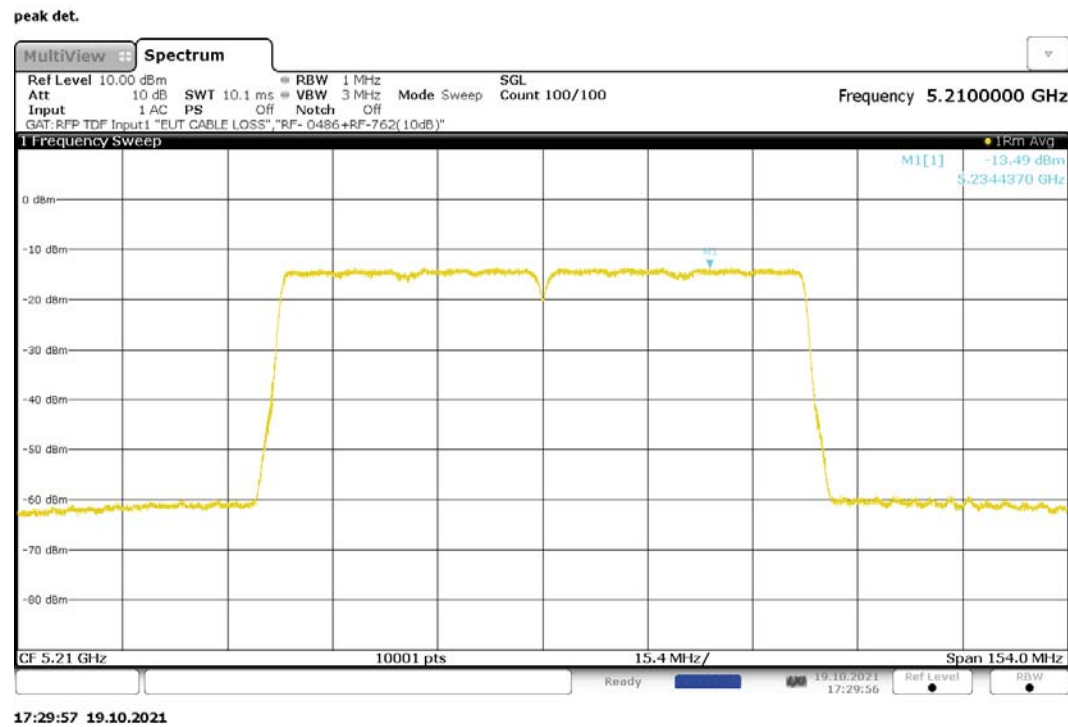
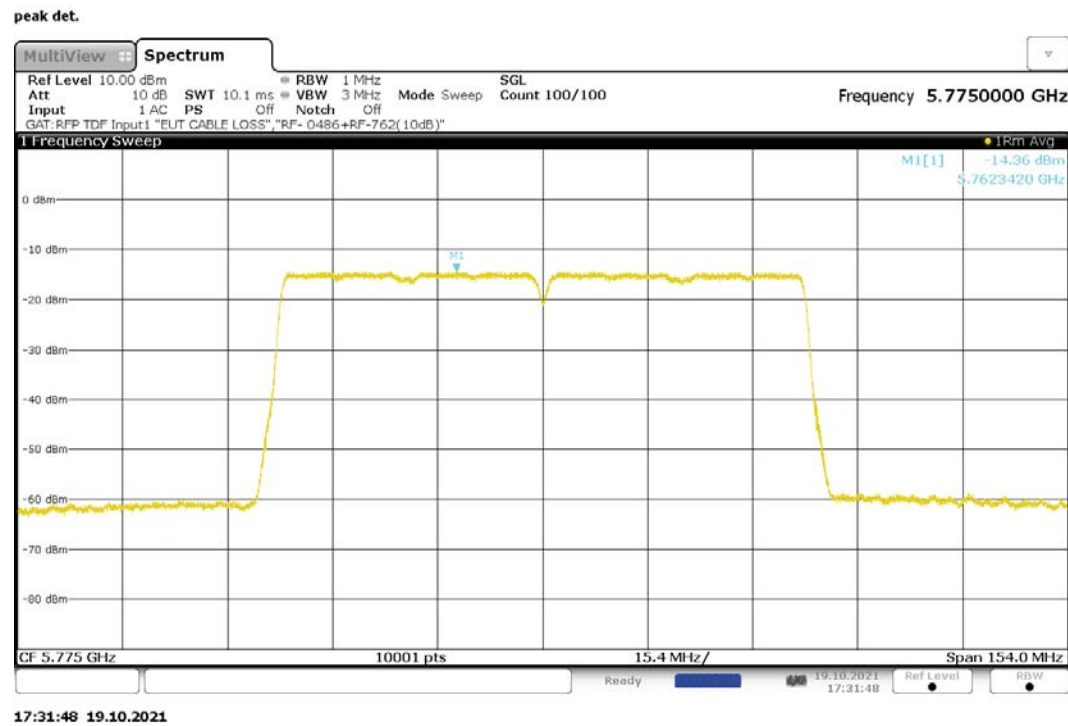


Figure 274: Maximum Power Spectral Density, 802.11ac-80, MIMO, RF1, 5775MHz



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5.2.6 Duty Cycle

RESULT:

PERFORMED

Date of testing: 2021-10-21

Ambient temperature: 23°C

Relative humidity: 47%

Atmospheric pressure: 1013hPa

Requirements:

N/A, this test item was performed as reference.

Test procedure:

ANSI C63.10-2013 §12.2, KDB 789033 D02, II. B.

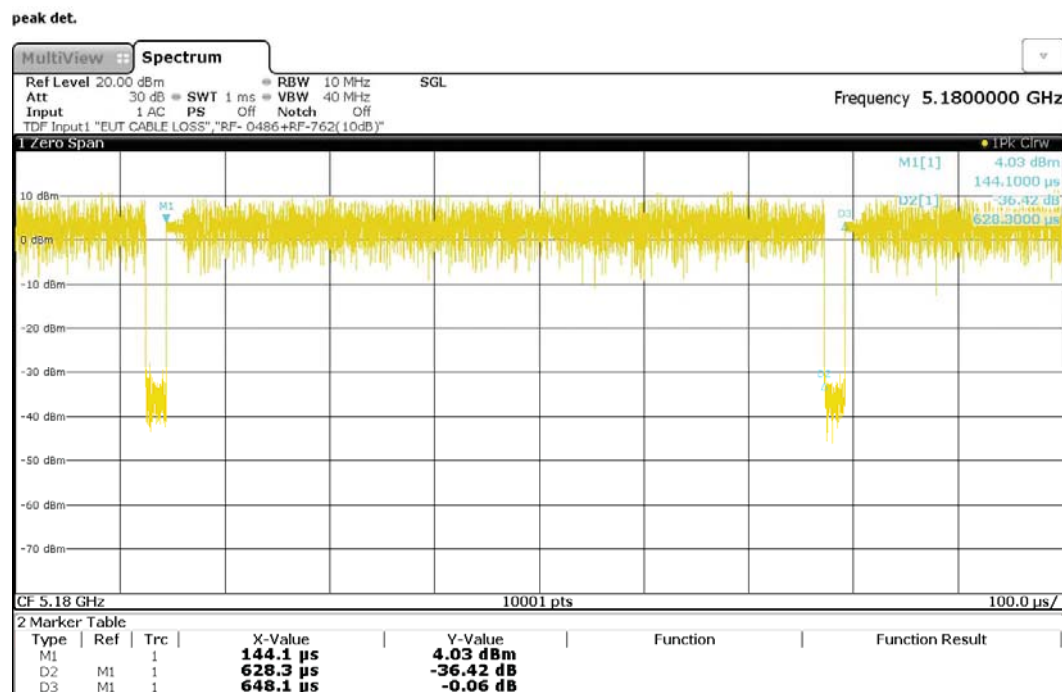
Table 147: Duty Cycle

Radio	Data Rate	Type	On-Time [us]	Period [us]	Duty Cycle
802.11a	6Mbps	SISO	628.3	648.1	96.94%
802.11a	6Mbps	CDD	628.3	647.9	96.97%
802.11n-20	6Mbps	SISO	1300.4	1320.2	98.50%
802.11n-20	MCS0	CDD	1300.6	1320.4	98.50%
802.11n-20	MCS8	MIMO	1300.8	1320.0	98.55%
802.11ac-20	MCS0	SISO	1312.6	1332.2	98.53%
802.11ac-20	MCS0	CDD	1312.8	1332.2	98.54%
802.11ac-20	MCS0	MIMO	1312.4	1332.0	98.53%
802.11n-40	MCS0	SISO	644.9	664.1	97.11%
802.11n-40	MCS0	CDD	644.3	664.1	97.02%
802.11n-40	MCS8	MIMO	644.8	664.4	97.05%
802.11ac-40	MCS0	SISO	652.2	671.9	97.07%
802.11ac-40	MCS0	CDD	652.5	671.9	97.11%
802.11ac-40	MCS0	MIMO	652.7	672.0	97.13%
802.11ac-40	MCS0	SISO	324.2	345.0	93.97%
802.11ac-40	MCS0	CDD	323.4	344.7	93.82%
802.11ac-40	MCS0	MIMO	325.3	344.9	94.32%

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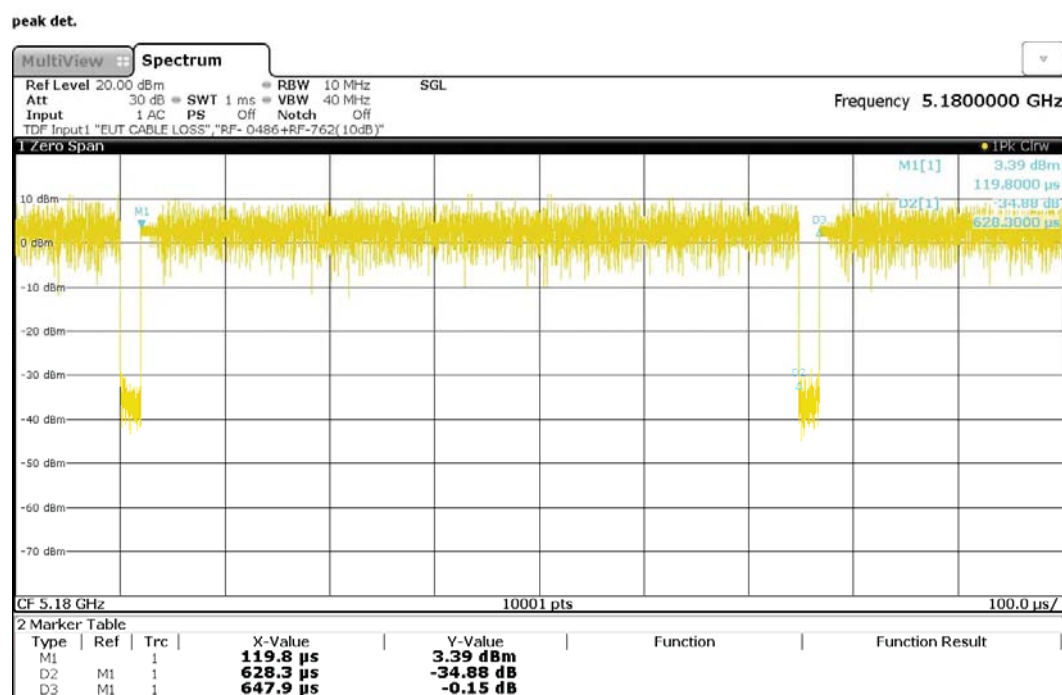
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Figure 275: Duty Cycle, 802.11a, 5180MHz, SISO, 6Mbps



15:15:27 21.10.2021

Figure 276: Duty Cycle, 802.11a, 5180MHz, CDD, 6Mbps



15:18:52 21.10.2021

Figure 277: Duty Cycle, 802.11n-20, 5180MHz, SISO, MCS0

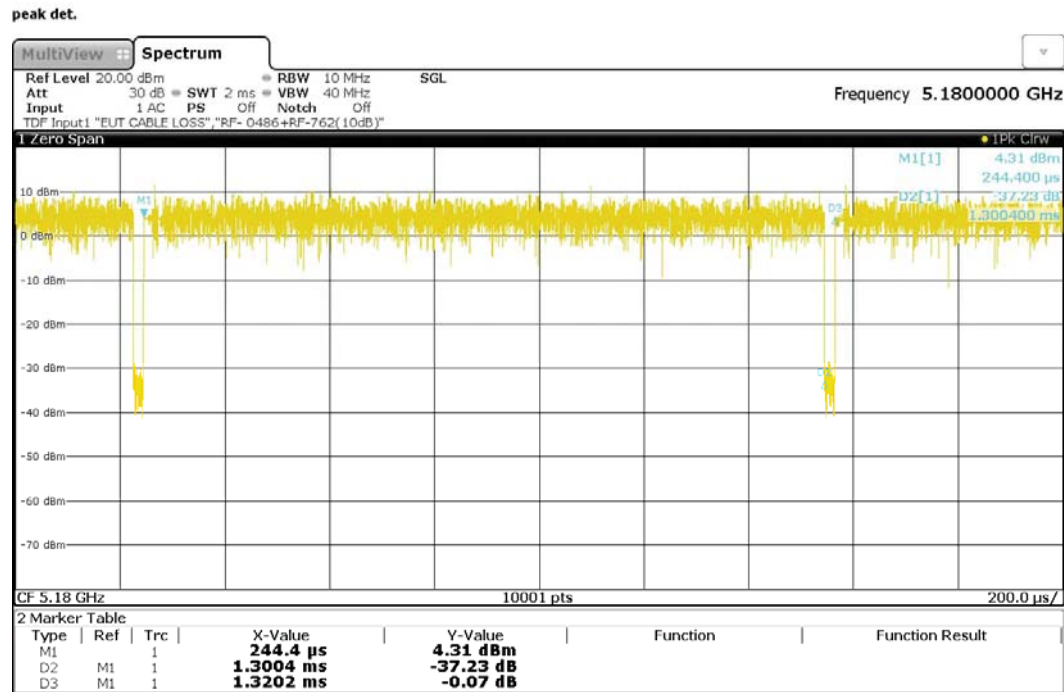
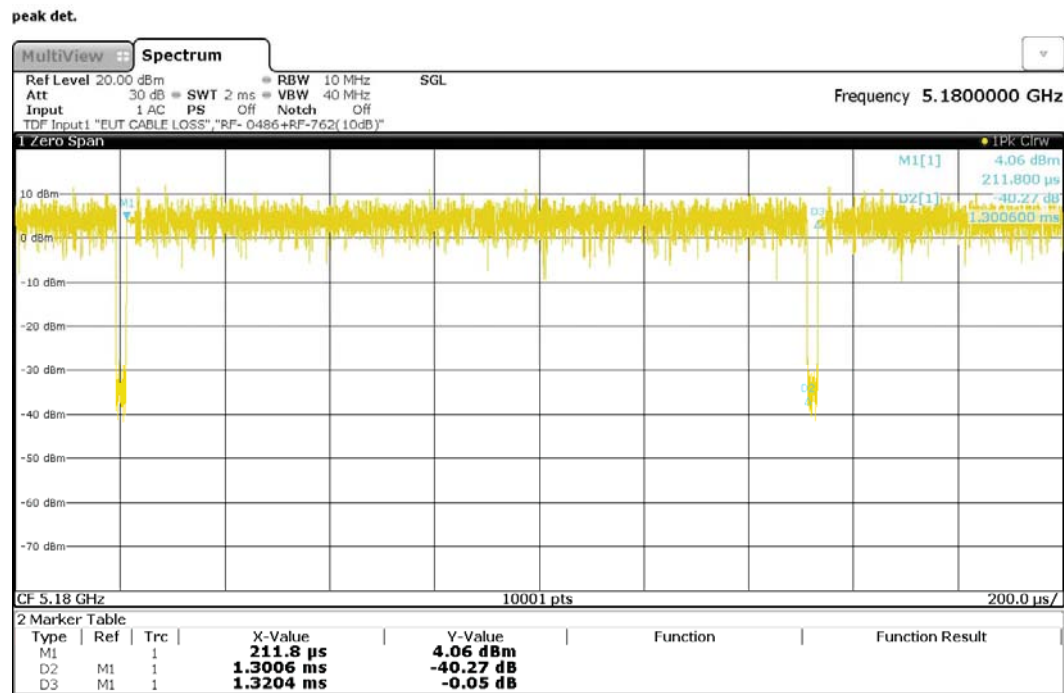


Figure 278: Duty Cycle, 802.11n-20, 5180MHz, CDD, MCS0



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Figure 279: Duty Cycle, 802.11n-20, 5180MHz, MIMO, MCS8

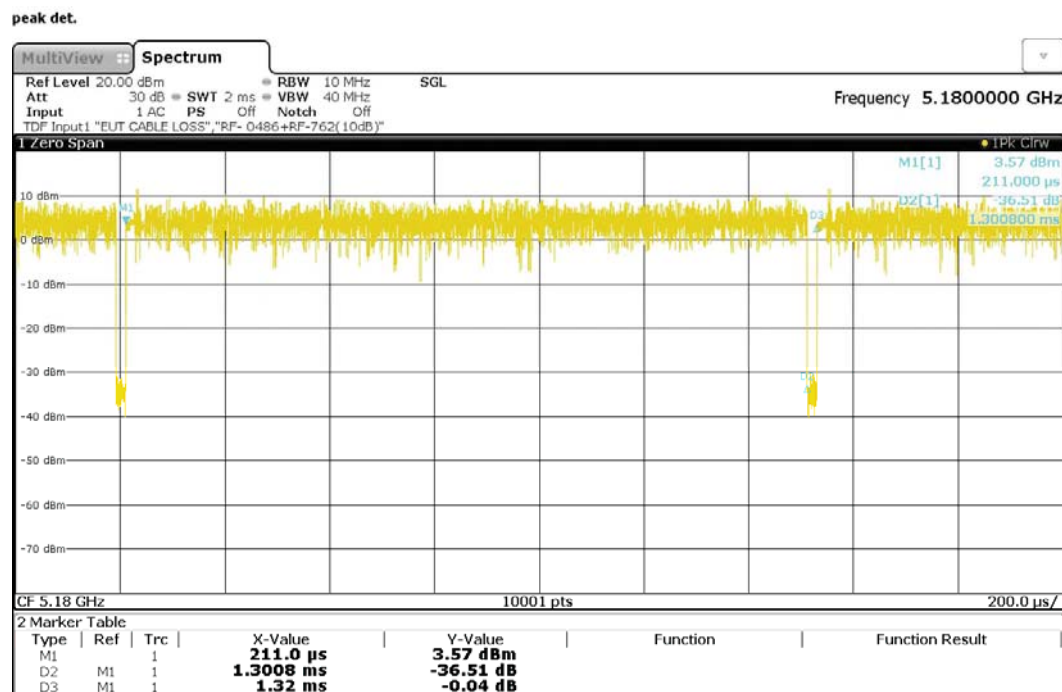
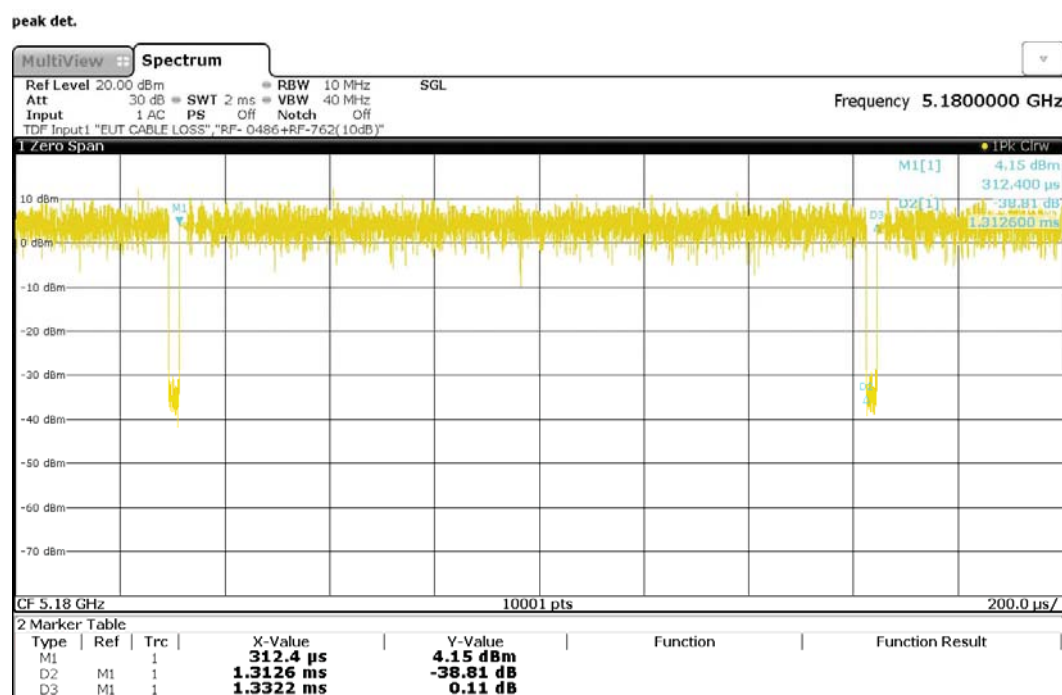


Figure 280: Duty Cycle, 802.11ac-20, 5180MHz, SISO, MCS0



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Figure 281: Duty Cycle, 802.11ac-20, 5180MHz, CDD, MCS0

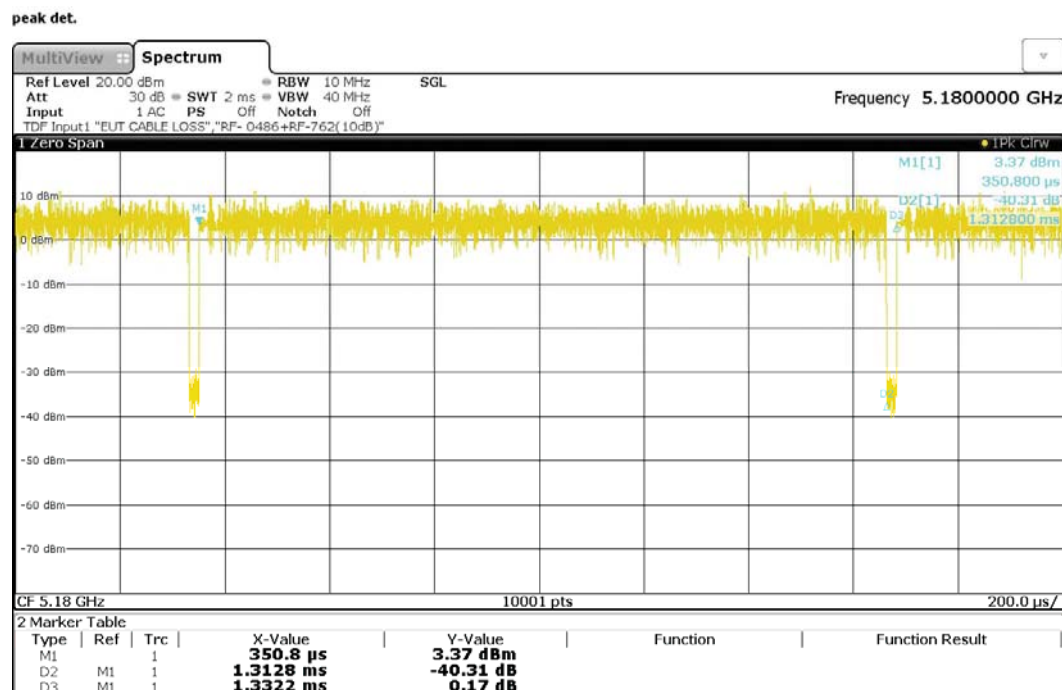
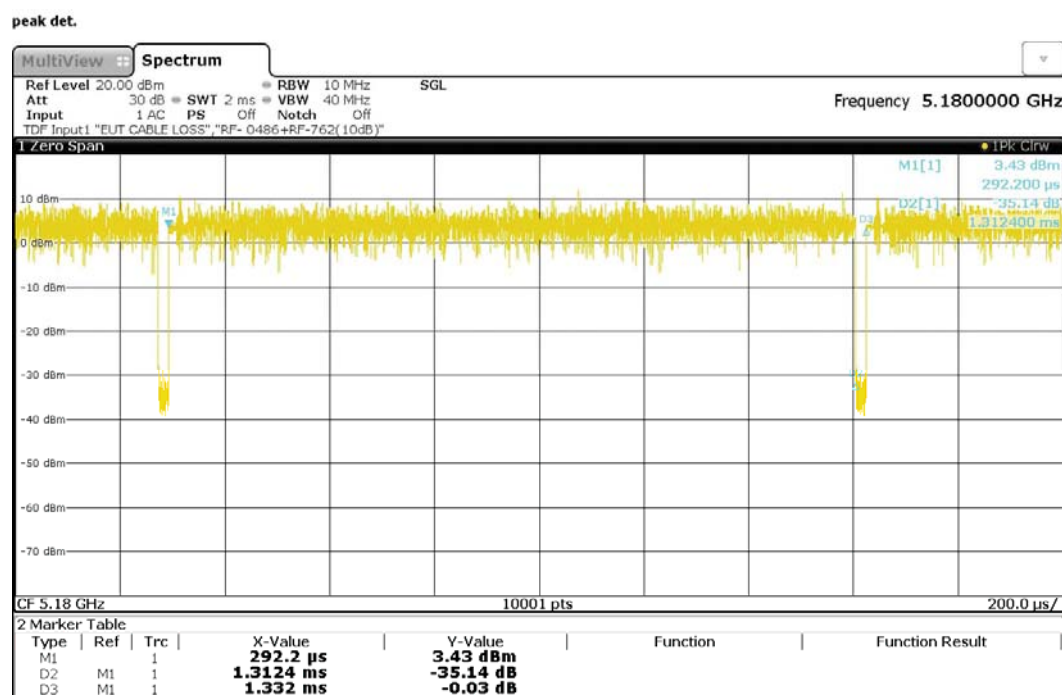


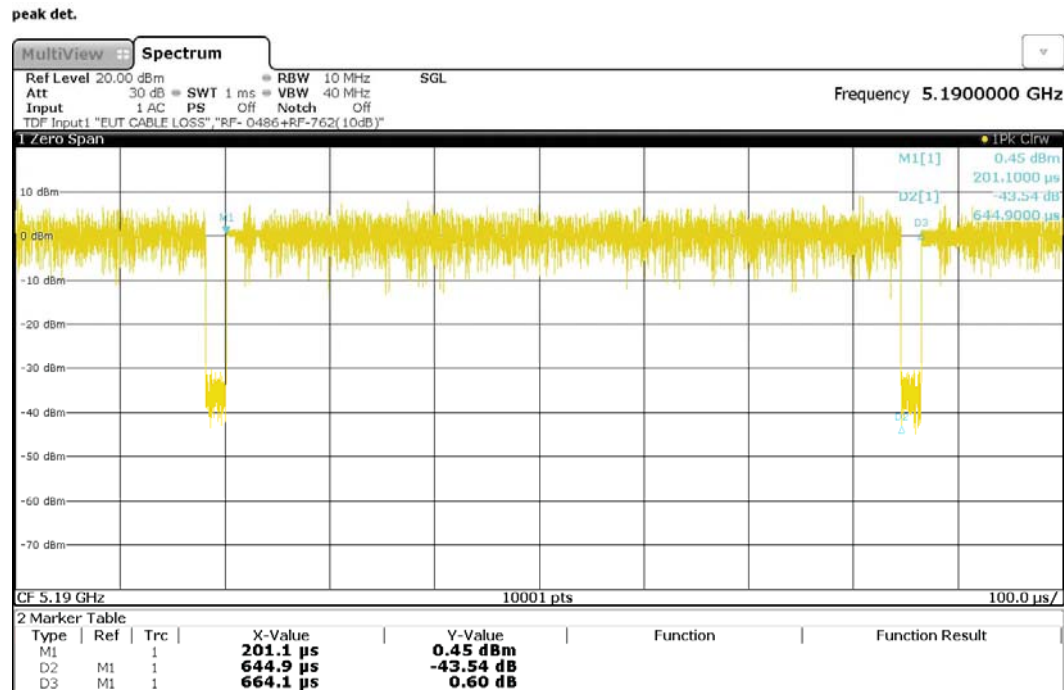
Figure 282: Duty Cycle, 802.11ac-20, 5180MHz, MIMO, MCS0



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Test Report No.:

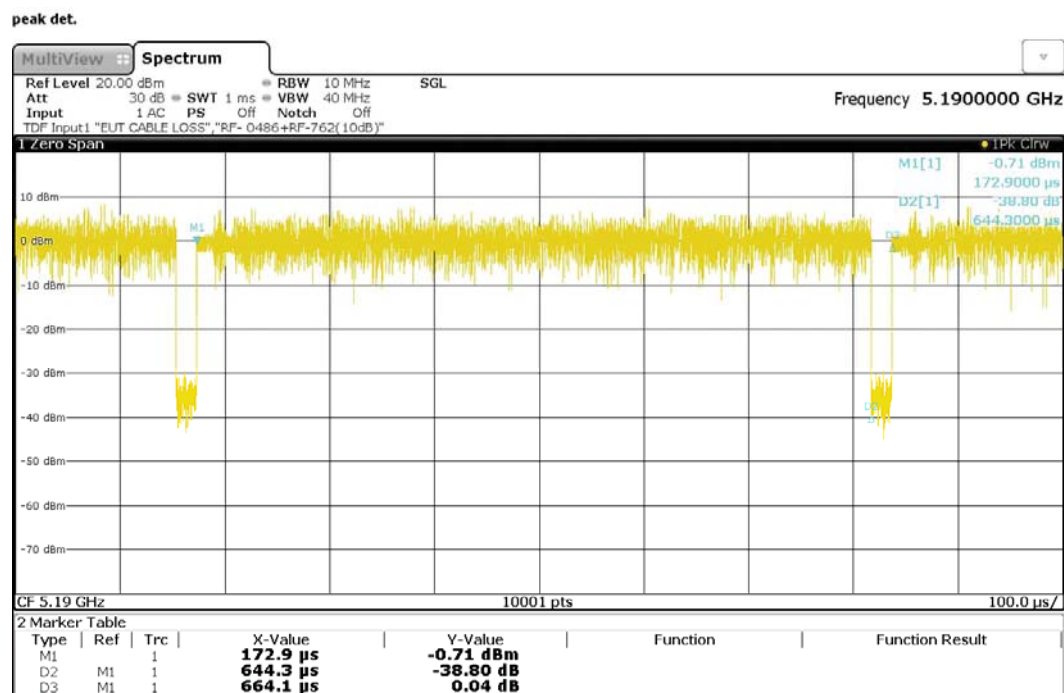
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Figure 283: Duty Cycle, 802.11n-40, 5190MHz, SISO, MCS0



15:37:32 21.10.2021

Figure 284: Duty Cycle, 802.11n-40, 5190MHz, CDD, MCS0

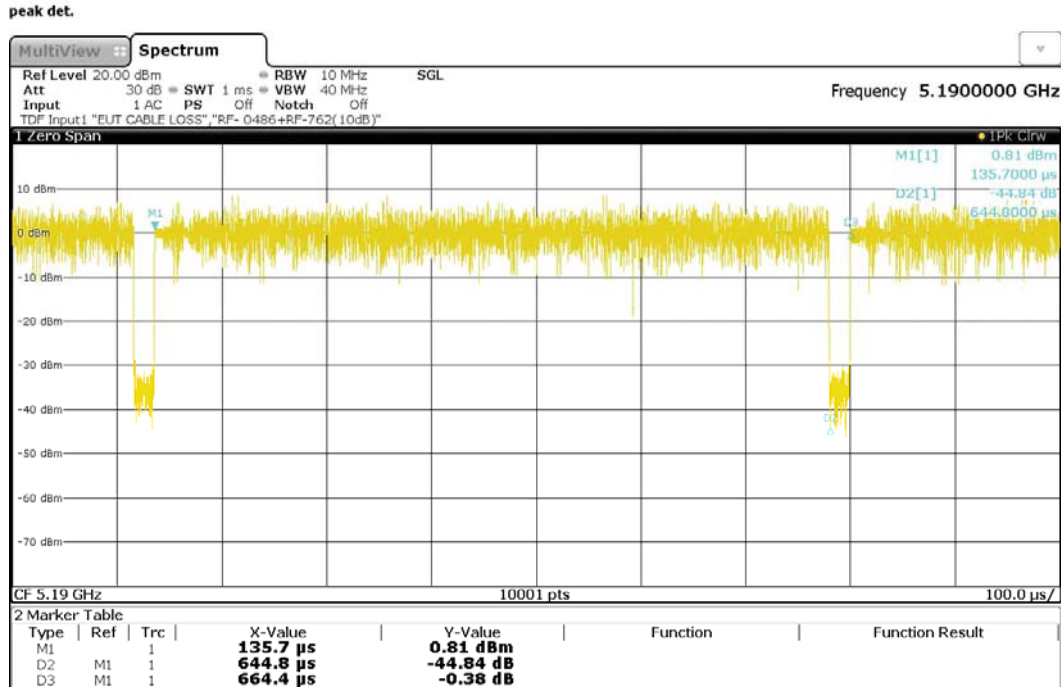


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Test Report No.:

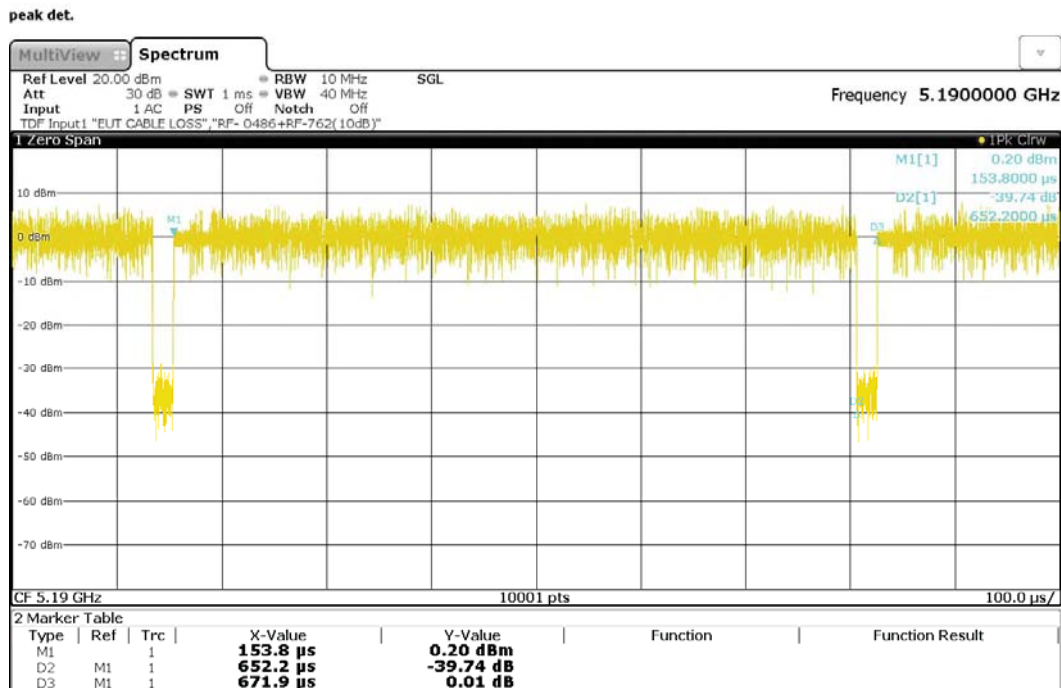
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Figure 285: Duty Cycle, 802.11n-40, 5190MHz, MIMO, MCS8



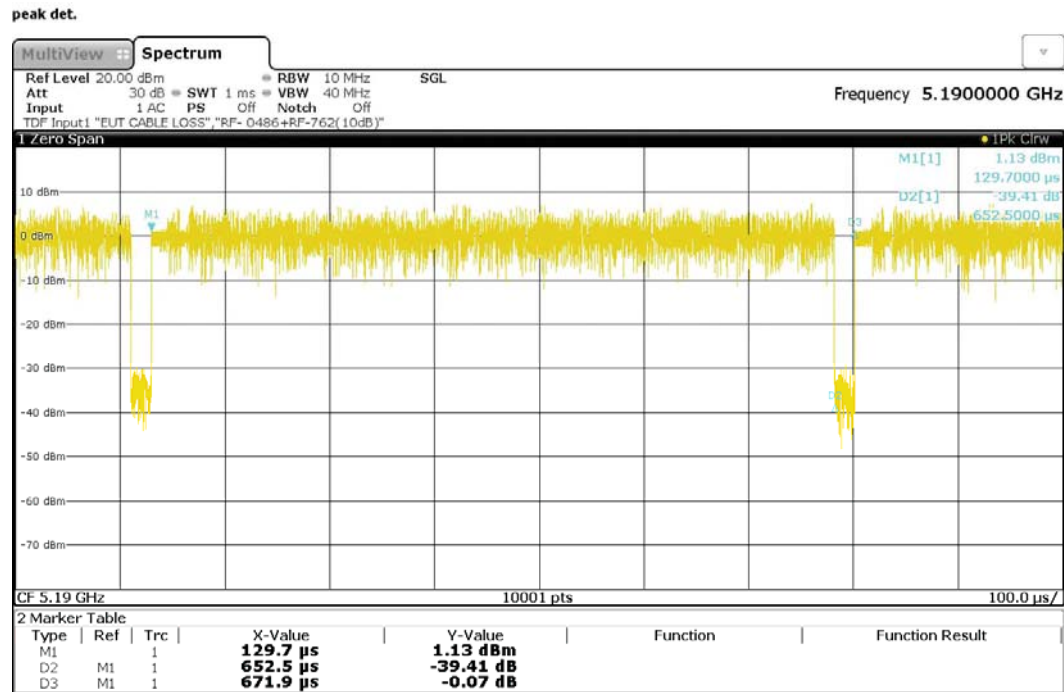
15:42:01 21.10.2021

Figure 286: Duty Cycle, 802.11ac-40, 5190MHz, SISO, MCS0



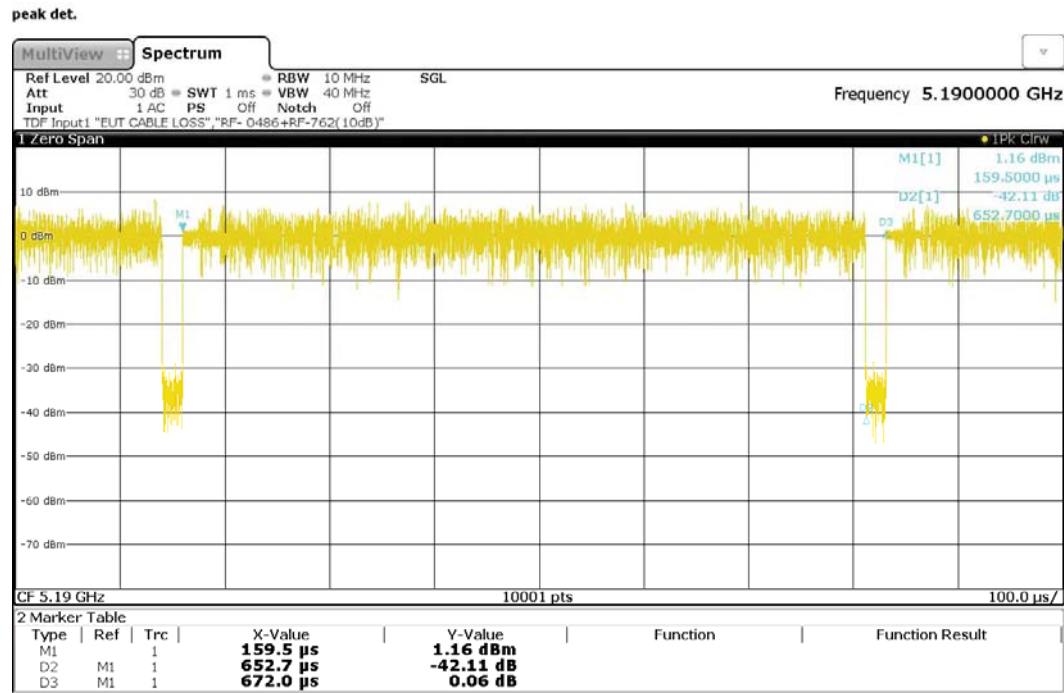
15:47:12 21.10.2021

Figure 287: Duty Cycle, 802.11ac-40, 5190MHz, CDD, MCS0



15:49:42 21.10.2021

Figure 288: Duty Cycle, 802.11ac-40, 5190MHz, MIMO, MCS0

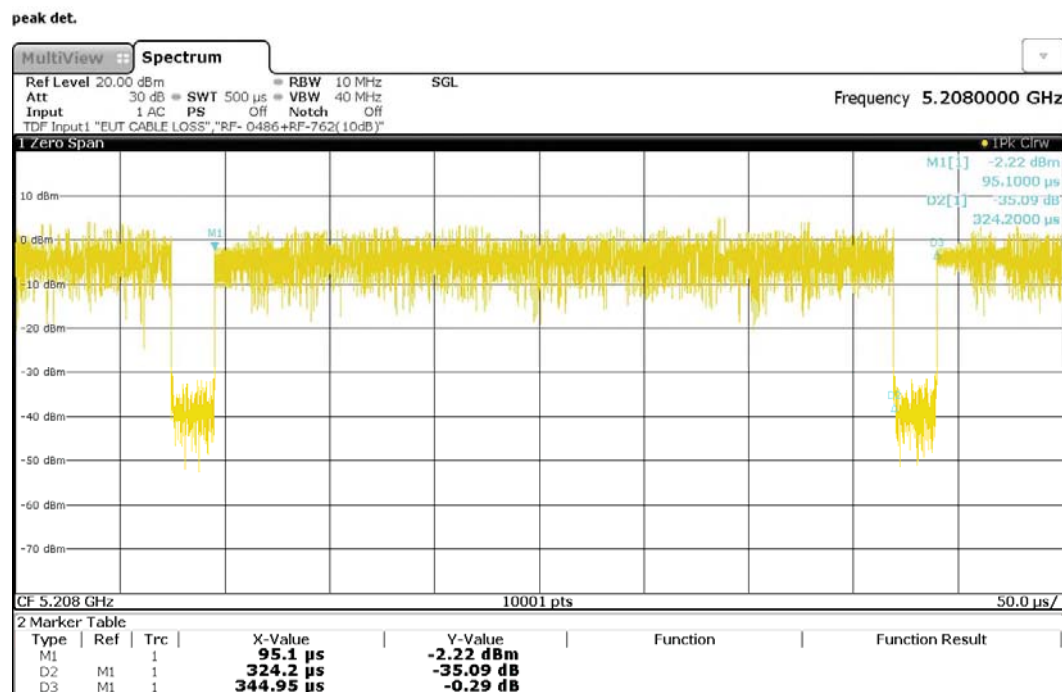


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Prüfbericht-Nr.: **JP211UTZ 001**
Test Report No.:

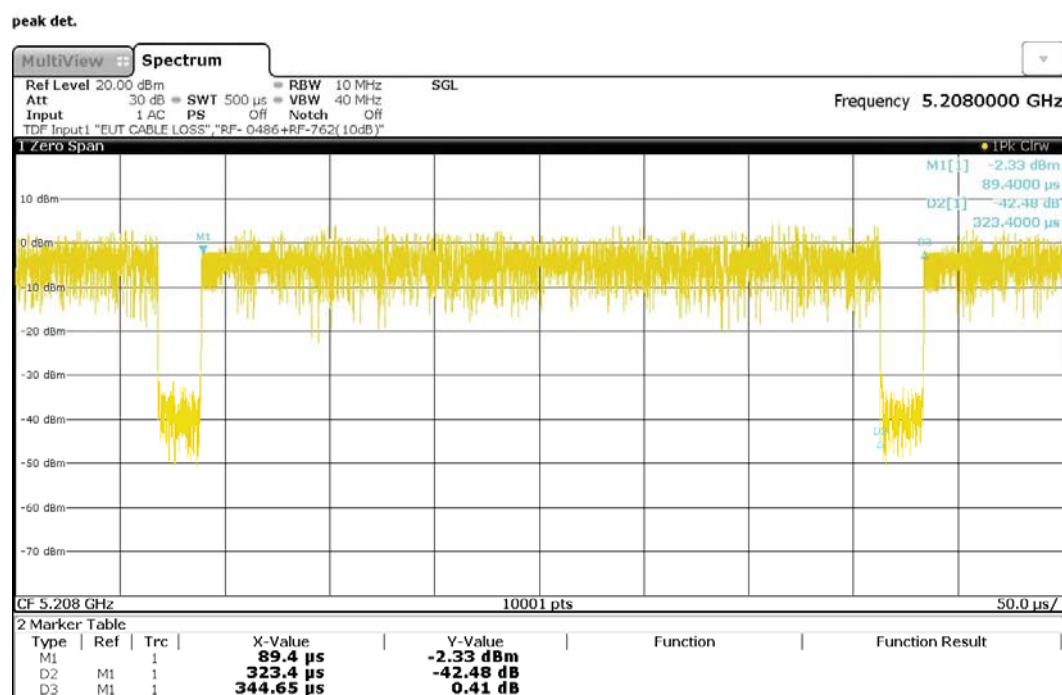
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Figure 289: Duty Cycle, 802.11ac-80, 5210MHz, SISO, MCS0



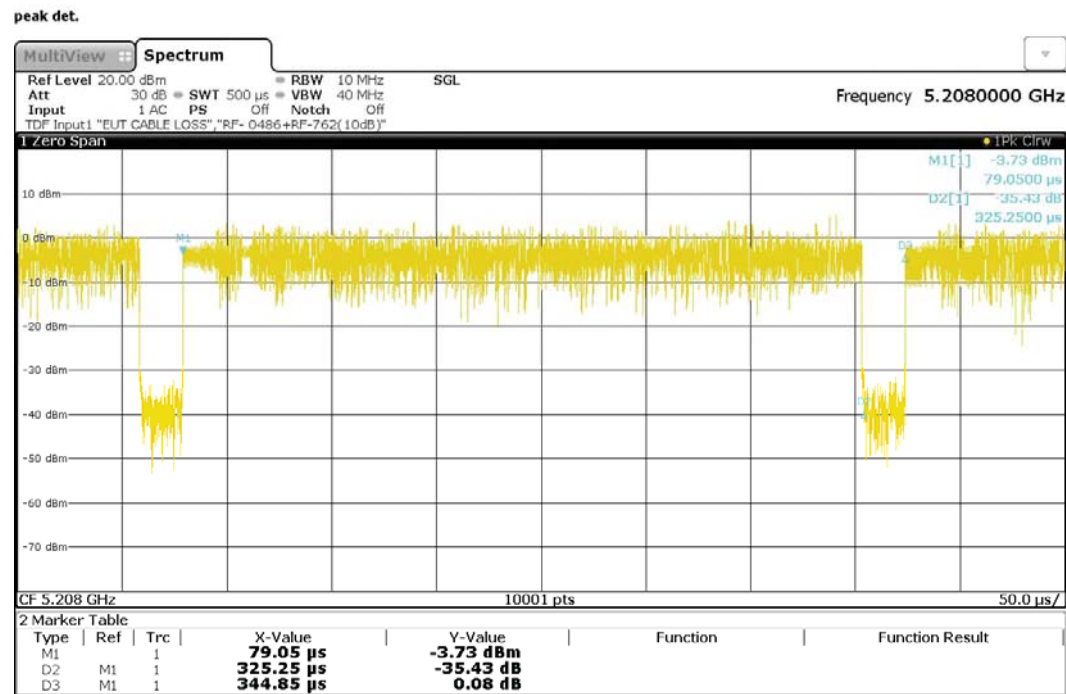
15:04:58 21.10.2021

Figure 290: Duty Cycle, 802.11ac-80, 5210MHz, CDD, MCS0



15:09:33 21.10.2021

Figure 291: Duty Cycle, 802.11ac-80, 5210MHz, MIMO, MCS0



15:10:51 21.10.2021

5.3 Radiated Measurements

5.3.1 Radiated Spurious Emissions of Transmitter and Band Edge

RESULT:

PASS

Date of testing:	2021-09-16, 2021-09-17, 2021-09-21, 2021-09-30, 2021-10-01, 2021-10-03, 2021-10-04
Ambient temperature:	23, 22, 21, 22, 22, 23, 22°C
Relative humidity:	62, 58, 58, 56, 54, 59, 52%
Atmospheric pressure:	1013, 1013, 1013, 1007, 997, 1018, 1022hPa
Frequency range:	9kHz - 40GHz
Measurement distance:	3m
Kind of test site:	Semi Anechoic Chamber

Requirements:

FCC 15.205, FCC 15.209, FCC 15.407(b) and RSS-Gen §8.10, 8.9, RSS-247 §6.2.1.2, 6.2.4.2.

Radiated emissions which fall in the restricted bands, as defined in FCC 15.205(a) and RSS-Gen §8.10, must comply with the radiated emission limits specified in FCC 15.209(a) and RSS-Gen Table 5 and 6.

Radiated emissions which fall outside the operation frequency band and outside restricted bands shall meet the following:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz (Peak).
- (2) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -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, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Test procedure:

ANSI C63.10:2013 §12.7, KDB 789033 D02 §G.

The EUT was placed on a nonconductive turntable. The table height was 0.8m for measurements below 1GHz and 1.5m for measurements above 1GHz. Before final measurements of radiated emissions were performed, the EUT was scanned to determine its emission spectrum profile. The physical arrangement of the test system,

the associated cabling were varied in order to ensure that maximum emission amplitudes were attained.

The spectrum was examined from 9kHz to the 10th harmonic of the highest fundamental transmitter frequency or to 40GHz, whichever is lower (i.e. 40GHz). Final radiated emission measurements were made at 3m distance.

At each frequency where a spurious emission was found, the EUT was rotated 360° in order to determine the emission's maximum level. For frequencies above 30MHz, the antenna was raised and lowered from 1 to 4m and measurements were taken using both horizontal and vertical antenna polarizations.

For emissions between 30MHz and 1GHz, measurements were performed with a test receiver operating in the CISPR quasi-peak detection.

For emissions above 1GHz in Restricted Bands, measurements were performed with a spectrum analyzer using the Peak detector. Averaging with 1kHz VBW is used.

For emissions above 1GHz outside of Restricted Bands, measurements were performed with a spectrum analyzer using the Peak detector.

Absorbers have been placed on the floor between the EUT and the measuring antenna for testing above 1GHz.

The highest emission amplitudes relative to the appropriate limit were recorded in this report. Emissions other than those mentioned are small or not detectable.

Table 148: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5180MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	62.5	-6.0	56.5	74.0	17.5	197	343
5150.000	V	60.6	-6.0	54.6	74.0	19.4	154	355
10360.000	H	50.3	-7.7	42.6	68.2	25.6	200	320
10360.000	V	49.6	-7.7	41.9	68.2	26.3	200	359
15540.000	H	51.4	-5.2	46.2	74.0	27.8	200	26
15540.000	V	51.5	-5.2	46.3	74.0	27.7	154	343
20720.000	H	54.1	-10.6	43.5	74.0	30.5	142	351
20720.000	V	54.4	-10.6	43.8	74.0	30.2	163	305
25900.000	H	53.3	-12.8	40.5	68.2	27.7	200	40
25900.000	V	53.4	-12.8	40.6	68.2	27.6	200	15

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 149: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5180MHz

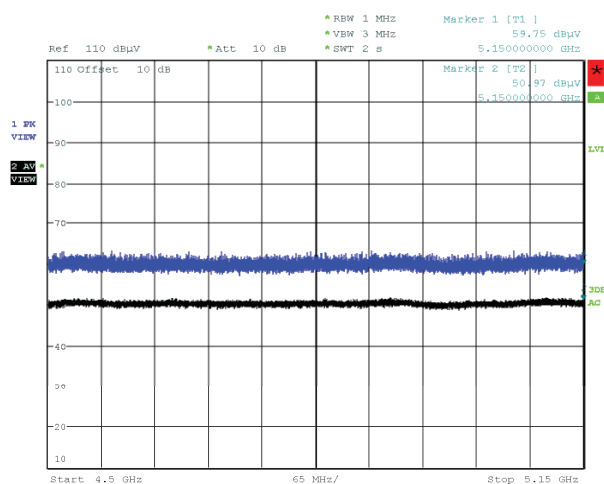
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	42.3	-6.0	36.3	54.0	17.7	197	343
5150.000	V	42.2	-6.0	36.2	54.0	17.8	154	355
15540.000	H	38.9	-5.2	33.7	54.0	20.3	200	26
15540.000	V	39.0	-5.2	33.8	54.0	20.2	154	343
20720.000	H	45.5	-10.6	34.9	54.0	19.1	142	351
20720.000	V	45.8	-10.6	35.2	54.0	18.8	163	305

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

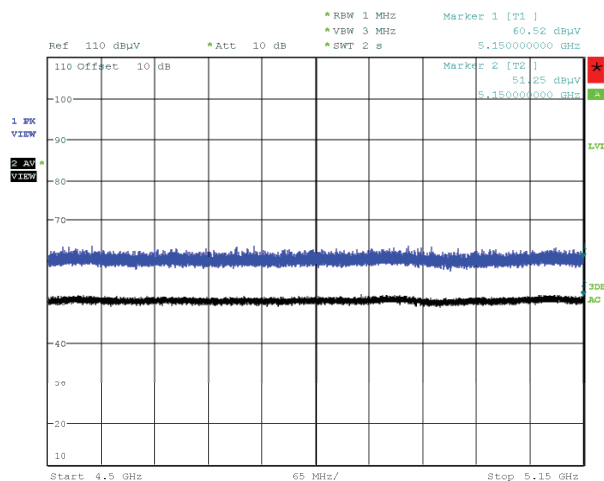
Figure 292: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-20, CDD, 5180MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 15:48:58

Vertical Antenna Orientation



Date: 21.SEP.2021 15:44:30

Table 150: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5220MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	53.5	-6.0	47.5	74.0	26.5	198	120
5150.000	V	54.0	-6.0	48.0	74.0	26.0	146	144
10440.000	H	50.1	-7.2	42.9	68.2	25.3	200	17
10440.000	V	49.8	-7.2	42.6	68.2	25.6	186	23
15660.000	H	50.7	-5.0	45.7	74.0	28.3	200	300
15660.000	V	50.7	-5.0	45.7	74.0	28.3	200	20
20880.000	H	54.1	-10.6	43.5	74.0	30.5	135	352
20880.000	V	54.9	-10.6	44.3	74.0	29.7	161	8
26100.000	H	54.2	-12.7	41.5	68.2	26.7	141	359
26100.000	V	54.0	-12.7	41.3	68.2	26.9	148	20

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 151: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5220MHz

Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	42.3	-6.0	36.3	54.0	17.7	198	120
5150.000	V	42.3	-6.0	36.3	54.0	17.7	146	144
15660.000	H	38.5	-5.0	33.5	54.0	20.5	200	300
15660.000	V	38.5	-5.0	33.5	54.0	20.5	200	20
20880.000	H	45.0	-10.6	34.4	54.0	19.6	135	352
20880.000	V	47.2	-10.6	36.6	54.0	17.4	161	8

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Table 152: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz

Freq. [MHz]	Antenna Orientation	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
148.345	H	58.2	-21.0	37.2	43.5	6.3	217	344

Note: Level QP = Reading QP + Factor

Table 153: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5350.000	H	53.9	-6.3	47.6	74.0	26.4	138	339
5350.000	V	54.1	-6.3	47.8	74.0	26.2	173	111
10480.000	H	50.3	-6.9	43.4	68.2	24.8	194	21
10480.000	V	50.1	-6.9	43.2	68.2	25.0	200	10
15720.000	H	51.4	-4.9	46.5	74.0	27.5	200	302
15720.000	V	51.7	-4.9	46.8	74.0	27.2	113	359
20960.000	H	54.4	-10.7	43.7	74.0	30.3	140	351
20960.000	V	55.1	-10.7	44.4	74.0	29.6	156	8
26200.000	H	54.0	-12.8	41.2	68.2	27.0	131	39
26200.000	V	53.5	-12.8	40.7	68.2	27.5	186	139

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 154: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz

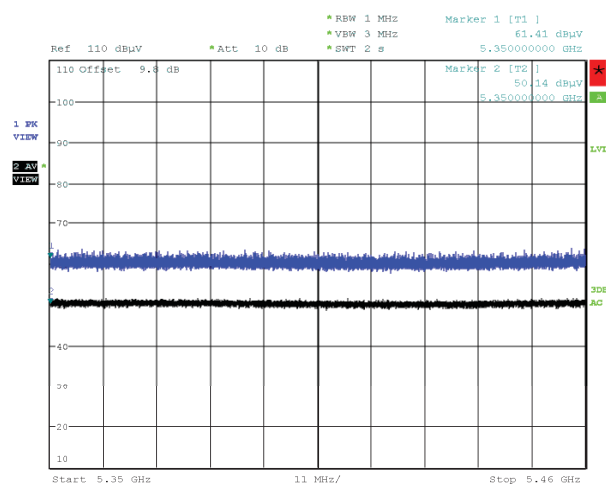
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5350.000	H	42.5	-6.3	36.2	54.0	17.8	138	339
5350.000	V	42.2	-6.3	35.9	54.0	18.1	173	111
15720.000	H	38.6	-4.9	33.7	54.0	20.3	200	302
15720.000	V	38.6	-4.9	33.7	54.0	20.3	113	359
20960.000	H	46.1	-10.7	35.4	54.0	18.6	140	351
20960.000	V	47.8	-10.7	37.1	54.0	16.9	156	8

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

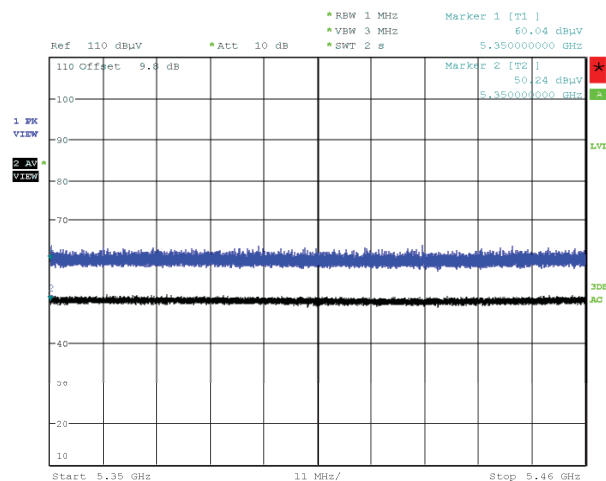
Figure 293: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-20, CDD, 5240MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 16:44:47

Vertical Antenna Orientation



Date: 21.SEP.2021 16:39:28

Table 155: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5745MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5250.000	V	53.9	-6.4	47.5	68.2	20.7	201	134
11490.000	H	49.0	-7.0	42.0	74.0	32.0	198	81
11490.000	V	48.4	-7.0	41.4	74.0	32.6	194	21
17235.000	H	50.5	-4.9	45.6	68.2	22.6	200	43
17235.000	V	50.8	-4.9	45.9	68.2	22.3	123	347
7250.000	H	53.5	0.9	54.4	74.0	19.6	166	354
22980.000	H	56.1	-11.4	44.7	74.0	29.3	156	53
22980.000	V	55.5	-11.4	44.1	74.0	29.9	174	18

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = Sqrt (e.i.r.p. [W] x 30) / distance [m] = 0.00257 [V/m] = 68.2 [dBμV/m]

Table 156: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5745MHz

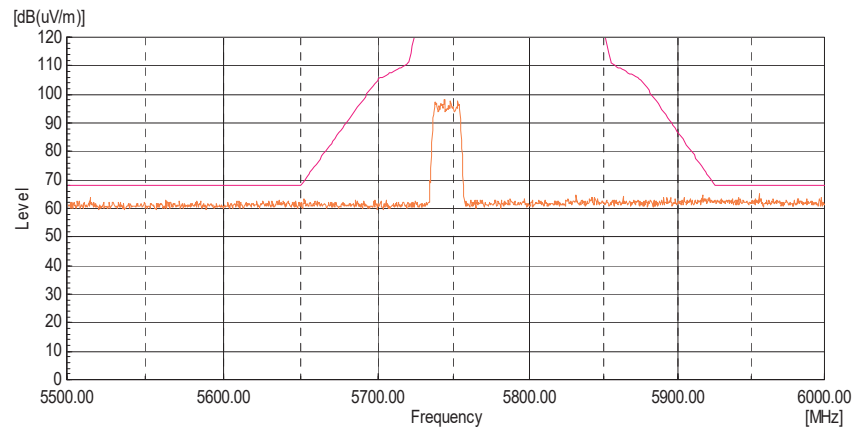
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7250.000	H	41.3	0.9	42.2	54.0	11.8	166	354
11490.000	H	35.2	-7.0	28.2	54.0	25.8	198	81
11490.000	V	35.2	-7.0	28.2	54.0	25.8	194	21
22980.000	H	48.1	-11.4	36.7	54.0	17.3	156	53
22980.000	V	46.8	-11.4	35.4	54.0	18.6	174	18

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 294: Radiated Emissions at Band Edge, Peak, 802.11ac-20, CDD, 5745MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

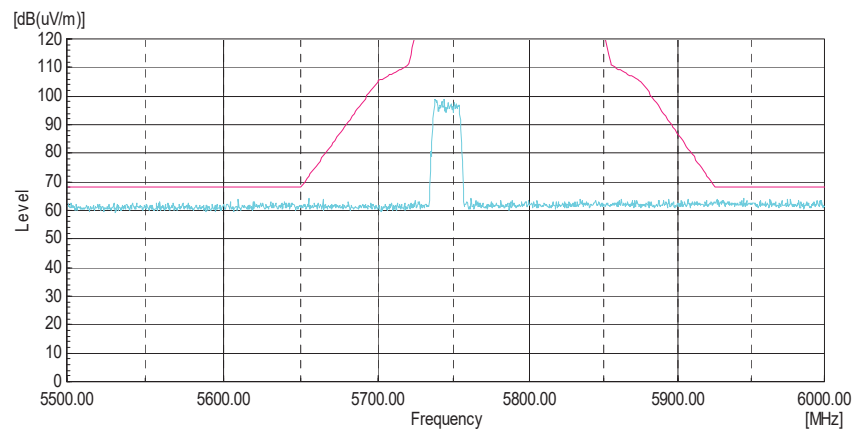


Table 157: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5785MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7266.423	V	53.9	1.0	54.9	74.0	19.1	200	179
7362.859	H	53.5	0.9	54.4	74.0	19.6	100	330
11570.000	H	49.1	-6.8	42.3	74.0	31.7	100	45
11570.000	V	49.4	-6.8	42.6	74.0	31.4	200	331
17355.000	H	50.2	-5.1	45.1	68.2	23.1	114	8
17355.000	V	49.9	-5.1	44.8	68.2	23.4	194	356
23300.000	H	52.8	-11.4	41.4	68.2	26.8	197	338
23300.000	V	52.0	-11.4	40.6	68.2	27.6	187	91

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 158: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5785MHz

Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7266.423	V	41.4	1.0	42.4	54.0	11.6	200	179
7362.859	H	41.3	0.9	42.2	54.0	11.8	100	330
11570.000	H	36.8	-6.8	30.0	54.0	24.0	100	45
11570.000	V	36.9	-6.8	30.1	54.0	23.9	200	331

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Table 159: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz

Freq. [MHz]	Antenna Orientation	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
148.346	H	58.0	-21.0	37.0	43.5	6.5	221	343
353.201	H	49.7	-17.8	31.9	46.0	14.1	100	10

Note: Level QP = Reading QP + Factor

Table 160: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7259.451	V	53.5	1.0	54.5	74.0	19.5	178	0
7266.278	H	54.3	1.0	55.3	74.0	18.7	114	113
11650.000	H	49.8	-6.4	43.4	74.0	30.6	194	88
11650.000	V	50.1	-6.4	43.7	74.0	30.3	200	329
17475.000	H	51.2	-4.9	46.3	68.2	21.9	200	356
17475.000	V	50.3	-4.9	45.4	68.2	22.8	160	300
23140.000	H	51.6	-11.4	40.2	68.2	28.0	161	353
23140.000	V	51.6	-11.4	40.2	68.2	28.0	194	128

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 161: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz

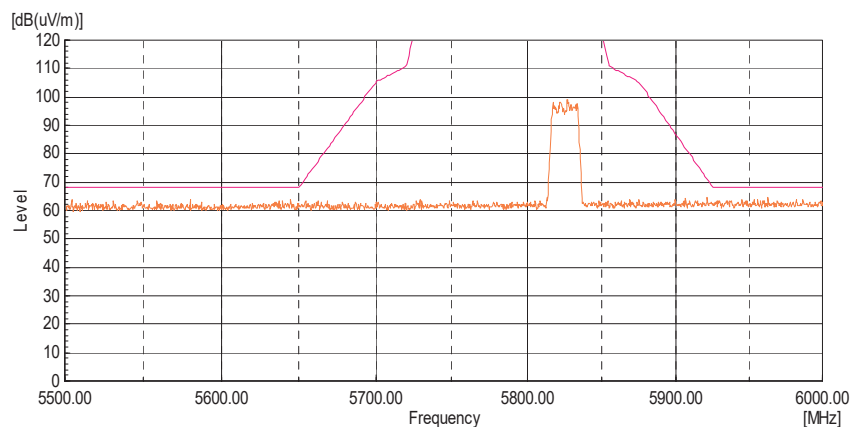
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7259.451	V	41.5	1.0	42.5	54.0	11.5	178	0
7266.278	H	41.4	1.0	42.4	54.0	11.6	114	113
11650.000	H	37.7	-6.4	31.3	54.0	22.7	194	88
11650.000	V	37.8	-6.4	31.4	54.0	22.6	200	329

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 295: Radiated Emissions at Band Edge, Peak, 802.11ac-20, CDD, 5825MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

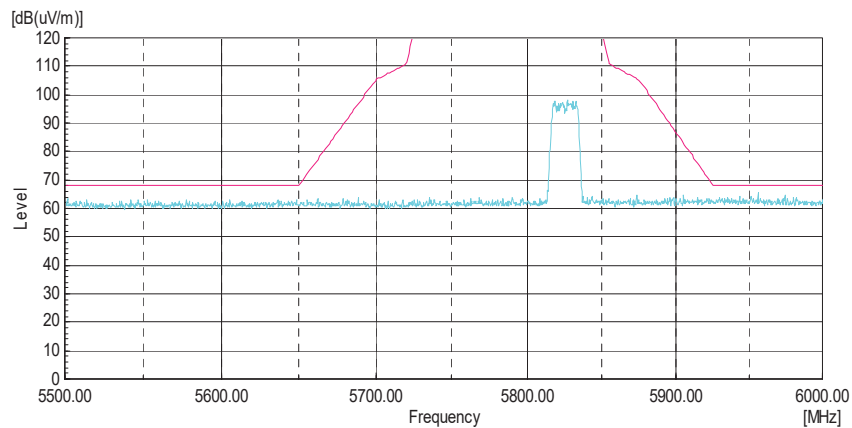


Table 162: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5190MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	67.9	-6.0	61.9	74.0	12.1	178	326
5150.000	V	67.4	-6.0	61.4	74.0	12.6	196	357
10380.000	H	50.8	-7.6	43.2	68.2	25.0	195	53
10380.000	V	50.8	-7.6	43.2	68.2	25.0	198	21
15570.000	H	52.4	-5.1	47.3	74.0	26.7	101	262
15570.000	V	52.2	-5.1	47.1	74.0	26.9	200	200
20760.000	H	53.8	-10.6	43.2	74.0	30.8	148	346
20760.000	V	51.7	-10.6	41.1	74.0	32.9	164	312
25950.000	H	55.3	-12.7	42.6	68.2	25.6	173	58
25950.000	V	55.3	-12.7	42.6	68.2	25.6	177	6

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 163: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5190MHz

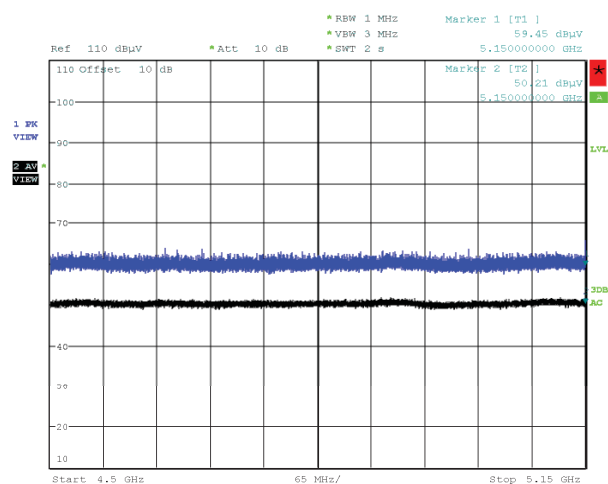
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	43.5	-6.0	37.5	54.0	16.5	178	326
5150.000	V	43.5	-6.0	37.5	54.0	16.5	196	357
15570.000	H	39.0	-5.1	33.9	54.0	20.1	101	262
15570.000	V	39.1	-5.1	34.0	54.0	20.0	200	200
20760.000	H	43.8	-10.6	33.2	54.0	20.8	148	346
20760.000	V	37.9	-10.6	27.3	54.0	26.7	164	312

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

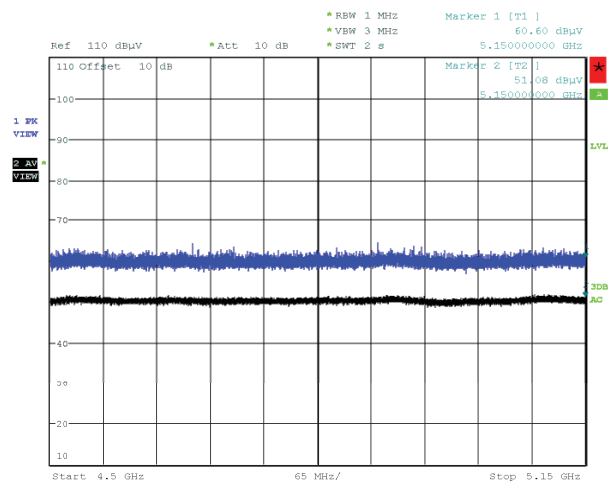
Figure 296: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-40, CDD, 5190MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 17:42:29

Vertical Antenna Orientation



Date: 21.SEP.2021 17:31:03

Table 164: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5230MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5350.000	H	53.0	-6.3	46.7	74.0	27.3	146	120
5350.000	V	53.5	-6.3	47.2	74.0	26.8	146	323
10460.000	H	50.6	-7.0	43.6	68.2	24.6	187	328
10460.000	V	51.0	-7.0	44.0	68.2	24.2	108	99
15690.000	H	51.6	-5.0	46.6	74.0	27.4	160	117
15690.000	V	52.0	-5.0	47.0	74.0	27.0	119	320
20920.000	V	54.2	-10.7	43.5	74.0	30.5	161	6
20920.000	H	53.6	-10.7	42.9	74.0	31.1	136	359
26150.000	H	55.0	-12.7	42.3	68.2	25.9	110	183
26150.000	V	55.5	-12.7	42.8	68.2	25.4	140	285

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 165: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5230MHz

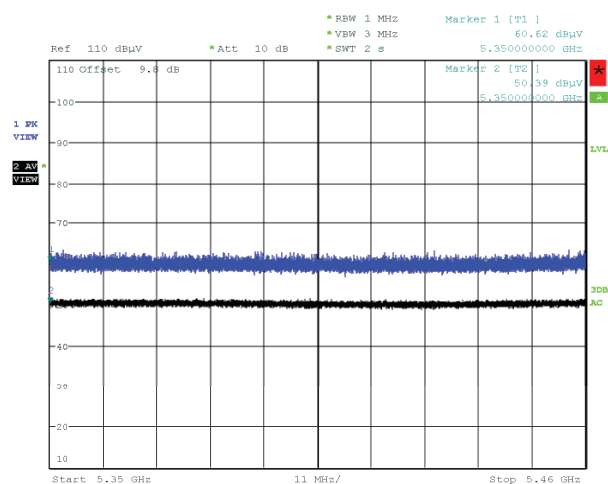
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5350.000	H	41.7	-6.3	35.4	54.0	18.6	146	120
5350.000	V	42.2	-6.3	35.9	54.0	18.1	146	323
15690.000	H	38.8	-5.0	33.8	54.0	20.2	160	117
15690.000	V	38.8	-5.0	33.8	54.0	20.2	119	320
20920.000	V	44.5	-10.7	33.8	54.0	20.2	161	6
20920.000	H	44.0	-10.7	33.3	54.0	20.7	136	359

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

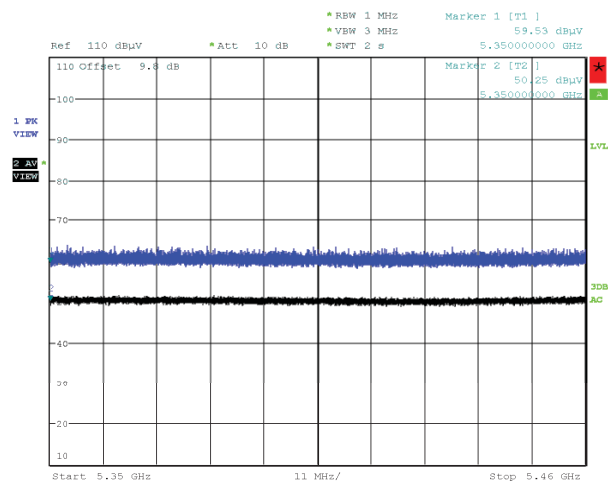
Figure 297: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-40, CDD, 5230MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 18:12:02

Vertical Antenna Orientation



Date: 21.SEP.2021 18:09:19

Table 166: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5755MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7240.077	V	53.6	0.9	54.5	68.2	13.7	130	66
7731.056	H	53.4	0.0	53.4	74.0	20.6	179	345
11510.000	H	50.1	-7.0	43.1	74.0	30.9	147	245
11510.000	V	51.5	-7.0	44.5	74.0	29.5	164	318
17265.000	H	52.1	-5.0	47.1	68.2	21.1	111	236
17265.000	V	52.4	-5.0	47.4	68.2	20.8	167	209
23020.000	H	54.9	-11.4	43.5	74.0	30.5	153	323
23020.000	V	53.5	-11.4	42.1	74.0	31.9	183	22

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 167: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5755MHz

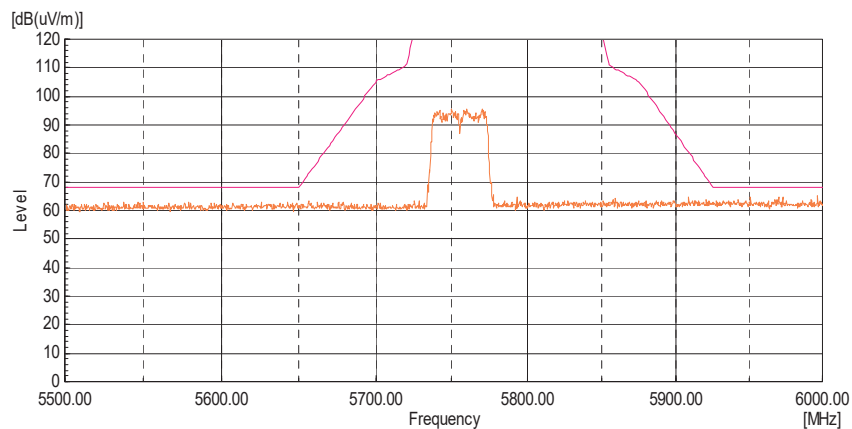
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7731.056	H	41.1	0.0	41.1	54.0	12.9	179	345
11510.000	H	36.6	-7.0	29.6	54.0	24.4	147	245
11510.000	V	36.7	-7.0	29.7	54.0	24.3	164	318
23020.000	H	42.0	-11.4	30.6	54.0	23.4	153	323
23020.000	V	39.7	-11.4	28.3	54.0	25.7	183	22

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 298: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5755MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

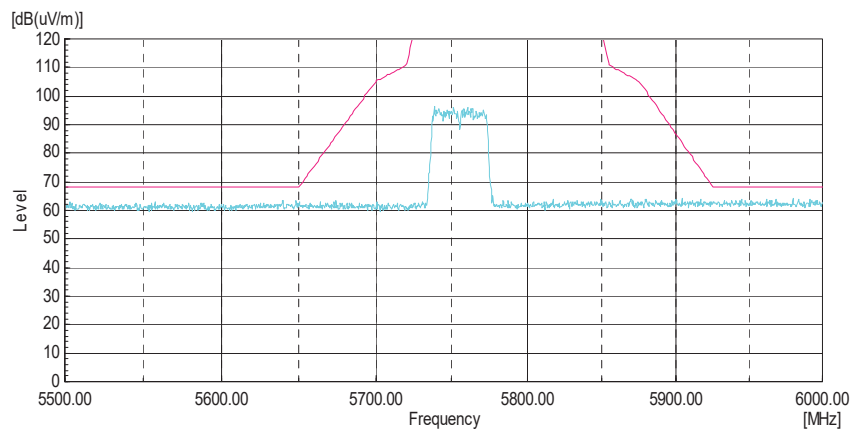


Table 168: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5795MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7256.453	V	53.9	0.9	54.8	74.0	19.2	160	25
7338.328	H	53.5	1.0	54.5	74.0	19.5	177	30
11590.000	H	51.4	-6.7	44.7	74.0	29.3	159	269
17385.000	V	53.2	-5.1	48.1	68.2	20.1	198	234
23180.000	H	54.2	-11.4	42.8	68.2	25.4	182	131

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 169: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5795MHz

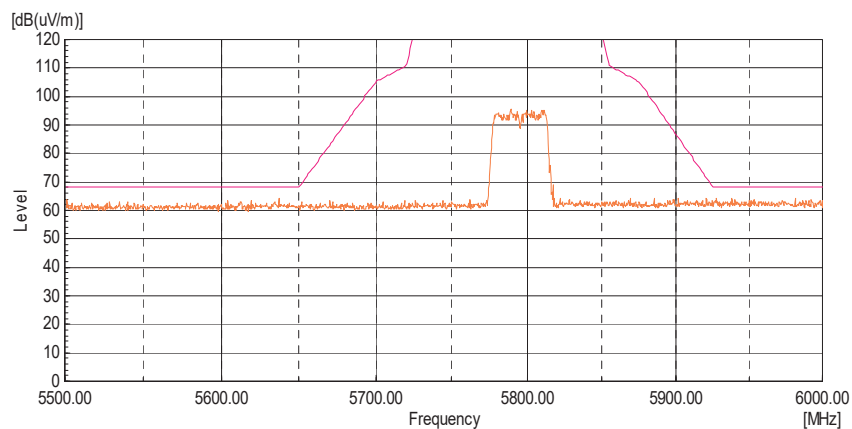
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7256.453	V	41.4	0.9	42.3	54.0	11.7	160	25
7338.328	H	41.2	1.0	42.2	54.0	11.8	177	30
11590.000	H	37.2	-6.7	30.5	54.0	23.5	159	269

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 299: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5795MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

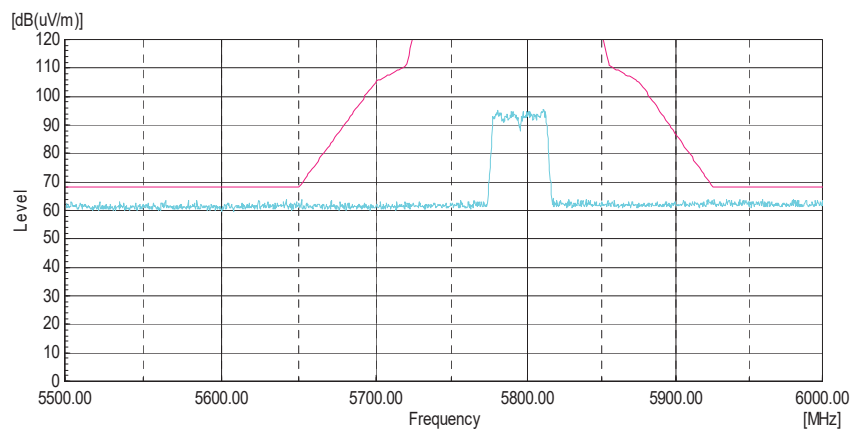


Table 170: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	59.1	-6.0	53.1	74.0	20.9	172	359
5150.000	V	62.8	-6.0	56.8	74.0	17.2	154	12
5350.000	H	54.4	-6.3	48.1	74.0	25.9	197	328
5350.000	H	54.9	-6.3	48.6	74.0	25.4	153	314
10420.000	H	50.7	-7.3	43.4	68.2	24.8	182	3
10420.000	V	50.8	-7.3	43.5	68.2	24.7	103	293
15630.000	H	52.6	-5.0	47.6	74.0	26.4	189	151
15630.000	V	51.7	-5.0	46.7	74.0	27.3	103	80
20840.000	H	52.2	-10.6	41.6	74.0	32.4	136	335
20840.000	V	51.8	-10.6	41.2	74.0	32.8	161	313
26050.000	H	55.2	-12.7	42.5	68.2	25.7	110	29
26050.000	V	55.2	-12.7	42.5	68.2	25.7	120	7

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 171: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz

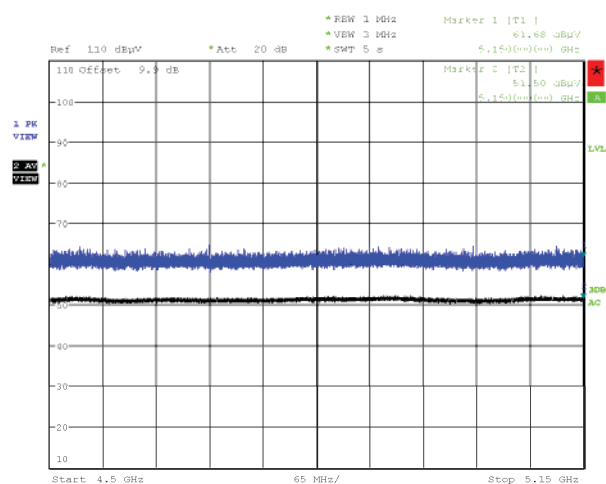
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	44.1	-6.0	38.1	54.0	15.9	172	359
5150.000	V	45.2	-6.0	39.2	54.0	14.8	154	12
5350.000	H	42.8	-6.3	36.5	54.0	17.5	197	328
5350.000	H	43.0	-6.3	36.7	54.0	17.3	153	314
15630.000	H	39.0	-5.0	34.0	54.0	20.0	189	151
15630.000	V	39.0	-5.0	34.0	54.0	20.0	103	80
20840.000	H	40.4	-10.6	29.8	54.0	24.2	136	335
20840.000	V	37.9	-10.6	27.3	54.0	26.7	161	313

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

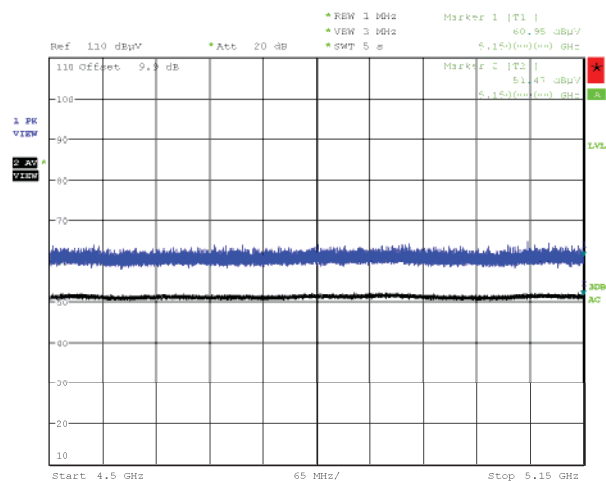
Figure 300: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-80, CDD, 5210MHz

Horizontal Antenna Orientation – Lower Side



Date: 30.SEP.2021 08:38:38

Vertical Antenna Orientation – Lower Side



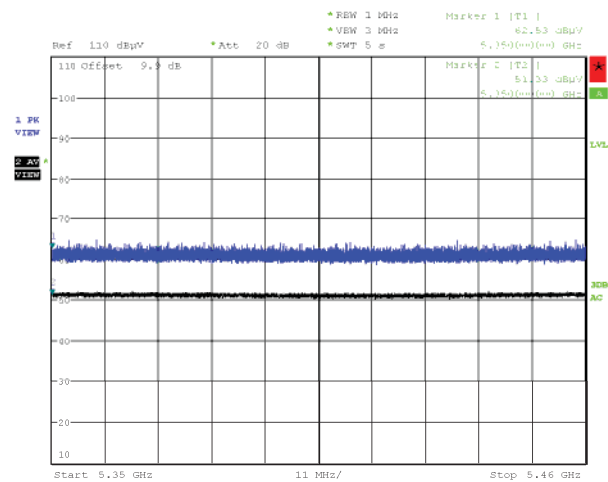
Date: 30.SEP.2021 08:42:15

Prüfbericht-Nr.:
Test Report No.:

JP211UTZ 001

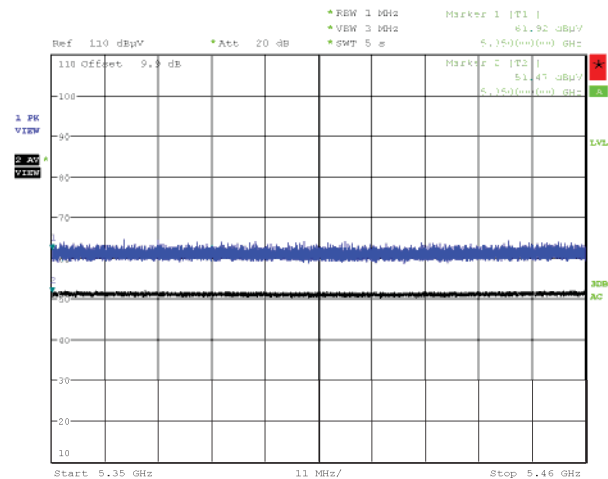
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Horizontal Antenna Orientation – Upper Side



Date: 30.SEP.2021 08:36:37

Vertical Antenna Orientation – Upper Side



Date: 30.SEP.2021 08:44:20

Table 172: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5775MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7285.134	H	53.5	1.0	54.5	74.0	19.5	200	136
7370.086	V	53.6	0.9	54.5	74.0	19.5	130	298
11550.000	H	50.7	-6.9	43.8	74.0	30.2	158	88
11550.000	V	50.6	-6.9	43.7	74.0	30.3	104	93
17325.000	H	52.7	-5.1	47.6	68.2	20.6	119	317
17325.000	V	52.3	-5.1	47.2	68.2	21.0	172	205
23100.000	V	54.3	-11.4	42.9	74.0	31.1	187	11
23100.000	H	53.3	-11.4	41.9	74.0	32.1	144	310

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 173: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5775MHz

Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7285.134	H	41.2	1.0	42.2	54.0	11.8	200	136
7370.086	V	41.2	0.9	42.1	54.0	11.9	130	298
11550.000	H	36.9	-6.9	30.0	54.0	24.0	158	88
11550.000	V	36.9	-6.9	30.0	54.0	24.0	104	93
23100.000	V	42.8	-11.4	31.4	54.0	22.6	187	11
23100.000	H	40.4	-11.4	29.0	54.0	25.0	144	310

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

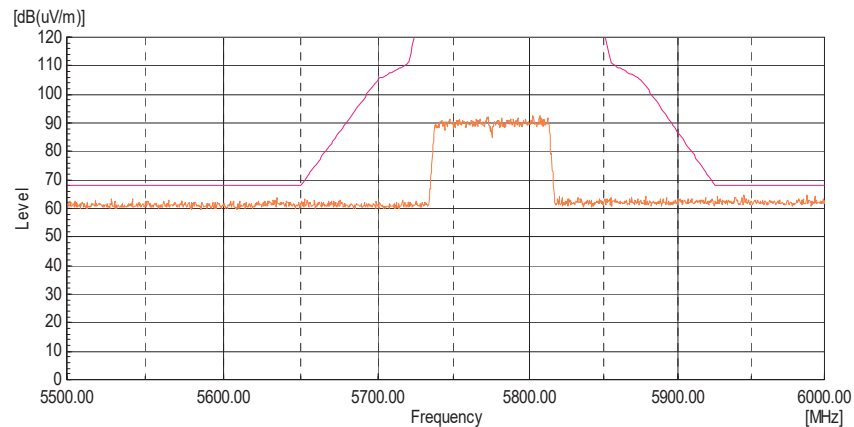
Prüfbericht-Nr.:
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Figure 301: Radiated Emissions at Band Edge, Peak, 802.11ac-80, CDD, 5775MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

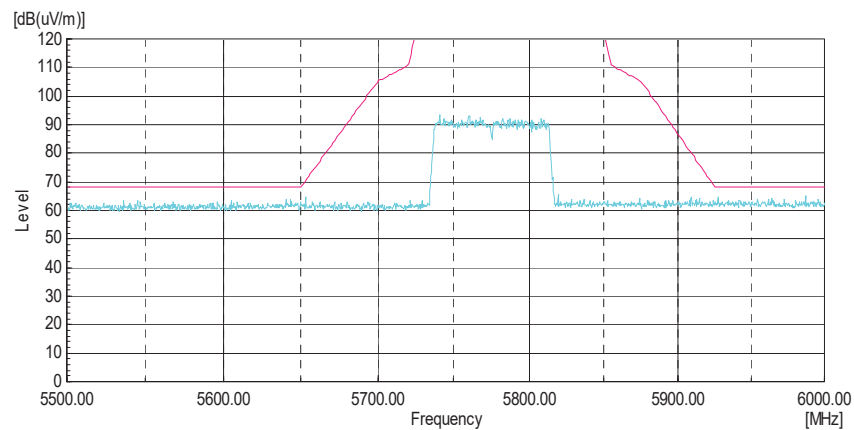


Table 174: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5180MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	V	60.1	-6.0	54.1	74.0	19.9	194	6
5150.000	H	62.8	-6.0	56.8	74.0	17.2	160	351

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 175: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5180MHz, with Bluetooth Hopping on DH5

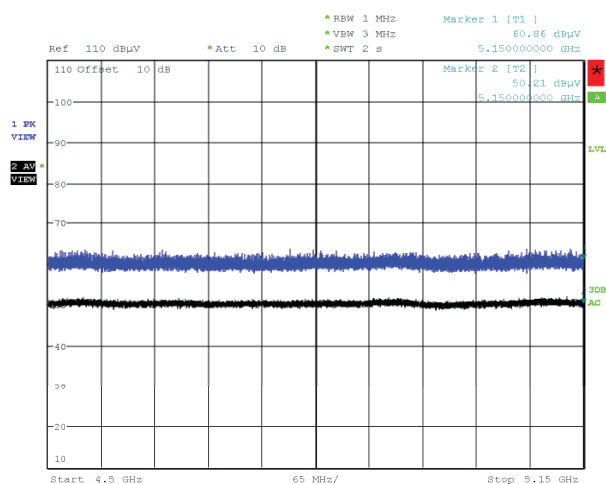
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	V	42.3	-6.0	36.3	54.0	17.7	194	6
5150.000	H	42.3	-6.0	36.3	54.0	17.7	160	351

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

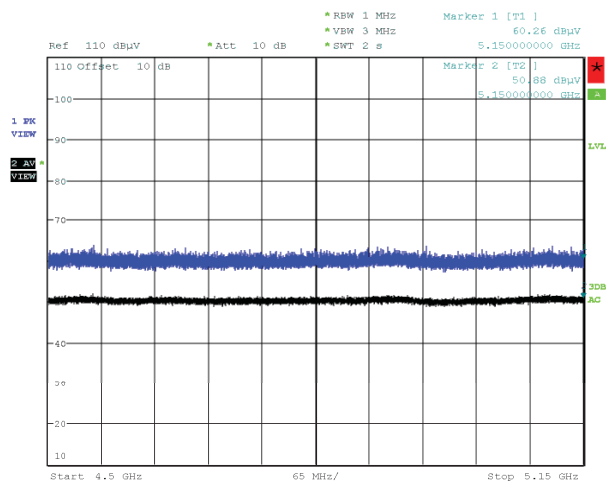
Figure 302: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-20, CDD, 5180MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Date: 21.SEP.2021 18:41:35

Vertical Antenna Orientation



Date: 21.SEP.2021 18:44:48

Table 176: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5350.000	H	53.4	-6.3	47.1	74.0	26.9	122	75
5350.000	V	53.8	-6.3	47.5	74.0	26.5	166	6
10480.000	H	51.3	-6.9	44.4	68.2	23.8	163	60
15720.000	V	52.1	-4.9	47.2	74.0	26.8	126	286

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 177: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz, with Bluetooth Hopping on DH5

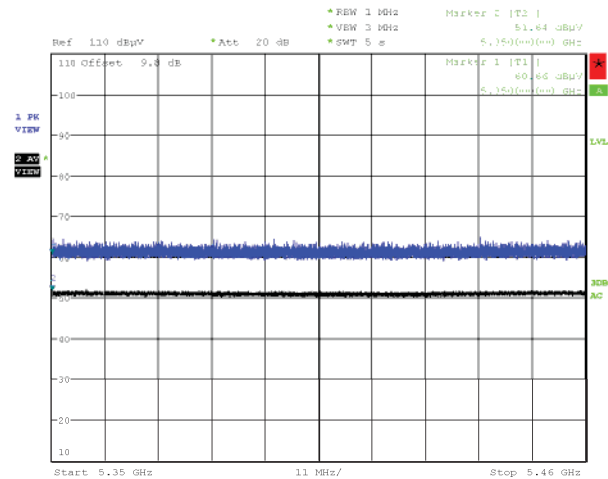
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5350.000	H	42.1	-6.3	35.8	54.0	18.2	122	75
5350.000	V	42.4	-6.3	36.1	54.0	17.9	166	6
15720.000	V	40.3	-4.9	35.4	54.0	18.6	126	286

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

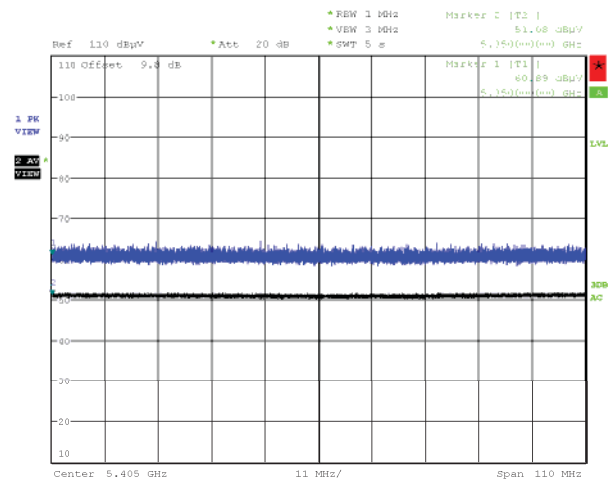
Figure 303: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-20, CDD, 5240MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Date: 29.SEP.2021 11:35:30

Vertical Antenna Orientation



Date: 29.SEP.2021 11:45:30

Table 178: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5745MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7310.141	V	55.3	1.0	56.3	74.0	17.7	200	329
7347.174	H	56.9	1.0	57.9	74.0	16.1	153	354

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 179: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5745MHz, with Bluetooth Hopping on DH5

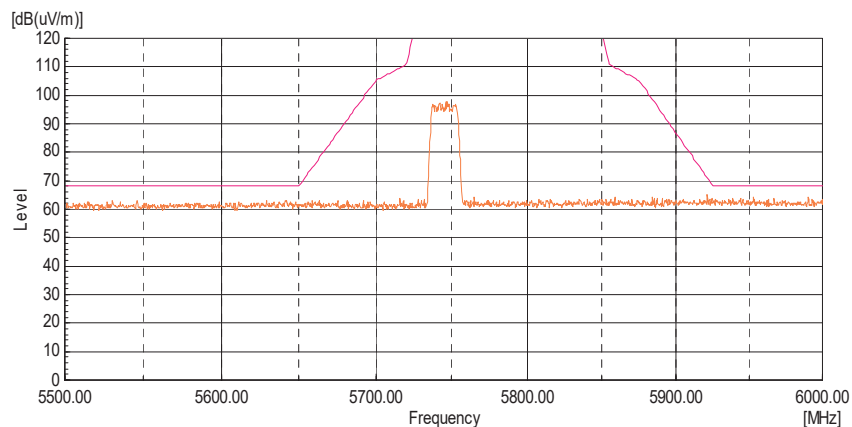
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7310.141	V	42.3	1.0	43.3	54.0	10.7	200	329
7347.174	H	42.7	1.0	43.7	54.0	10.3	153	354

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 304: Radiated Emissions at Band Edge, Peak, 802.11ac-20, CDD, 5745MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Vertical Antenna Orientation

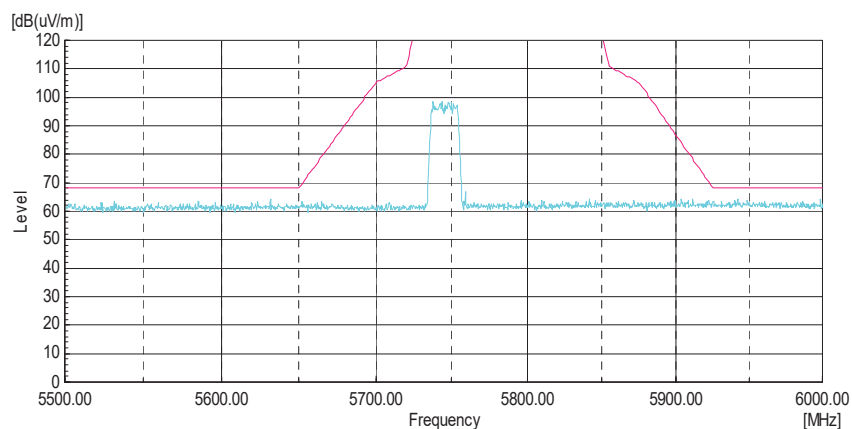


Table 180: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
148.345	H	58.3	-21.0	37.3	43.5	6.2	221	343

Note: Level QP = Reading QP + Factor

Table 181: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7260.017	V	59.8	1.0	60.8	74.0	13.2	122	37
7424.978	H	56.2	0.8	57.0	74.0	17.0	196	8

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 182: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz, with Bluetooth Hopping on DH5

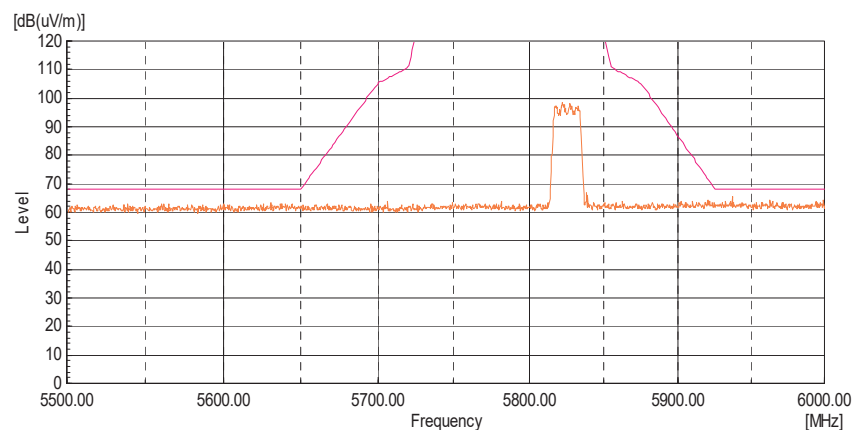
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7260.017	V	43.1	1.0	44.1	54.0	9.9	122	37
7424.978	H	42.6	0.8	43.4	54.0	10.6	196	8

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 305: Radiated Emissions at Band Edge, Peak, 802.11ac-20, CDD, 5825MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Vertical Antenna Orientation

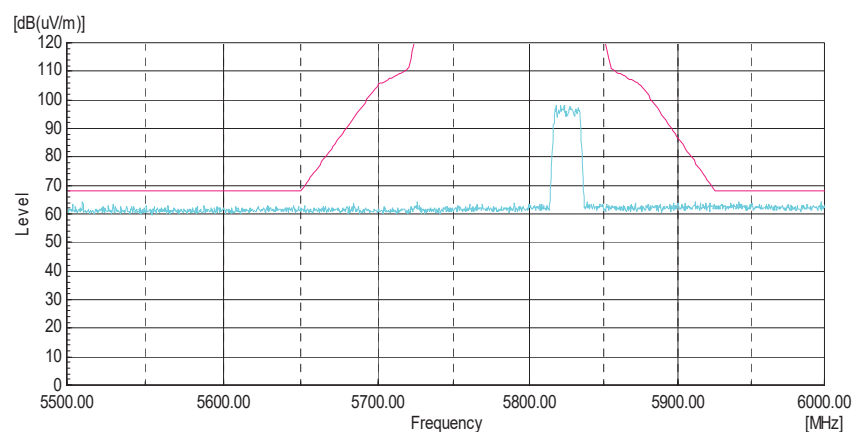


Table 183: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5190MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	66.8	-6.0	60.8	74.0	13.2	184	351
5150.000	V	64.8	-6.0	58.8	74.0	15.2	114	7

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 184: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5190MHz, with Bluetooth Hopping on DH5

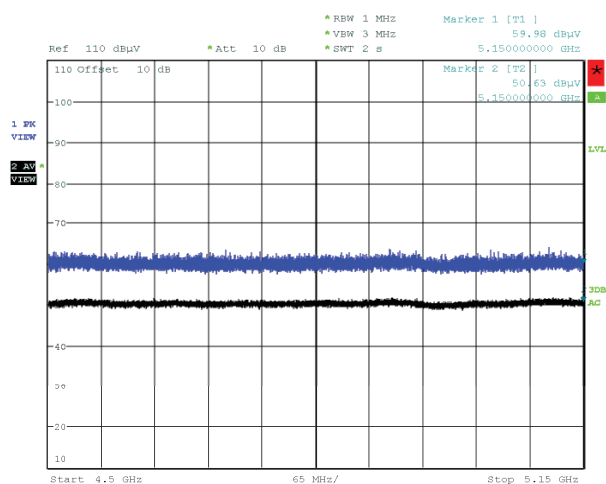
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	42.6	-6.0	36.6	54.0	17.4	184	351
5150.000	V	42.3	-6.0	36.3	54.0	17.7	114	7

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

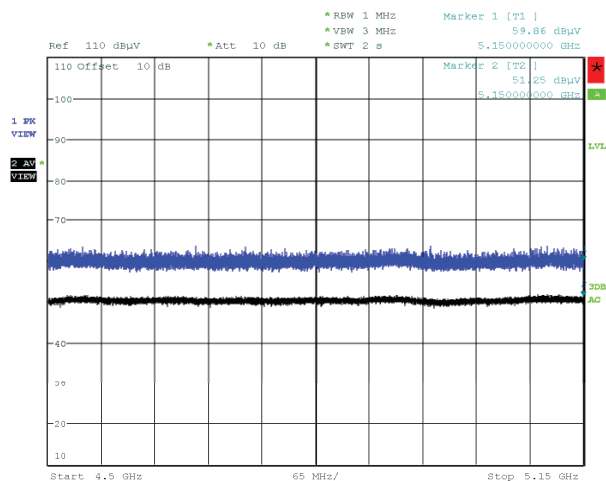
Figure 306: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-40, CDD, 5190MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Date: 21.SEP.2021 18:31:37

Vertical Antenna Orientation



Date: 21.SEP.2021 18:35:56

Table 185: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5230MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5350.000	H	54.2	-6.3	47.9	74.0	26.1	179	325
5350.000	V	54.8	-6.3	48.5	74.0	25.5	190	344

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 186: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5230MHz, with Bluetooth Hopping on DH5

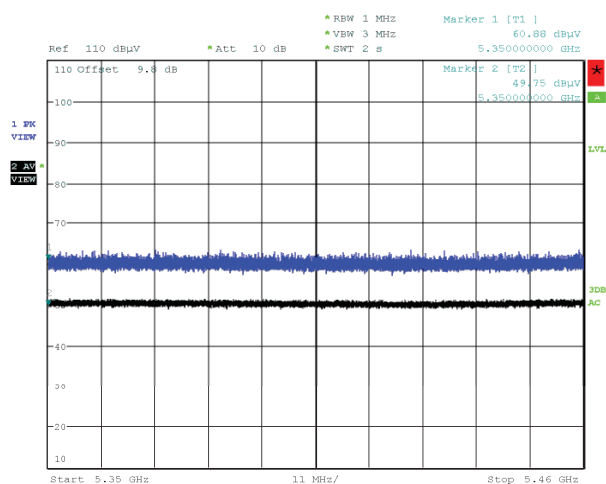
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5350.000	H	42.2	-6.3	35.9	54.0	18.1	179	325
5350.000	V	42.4	-6.3	36.1	54.0	17.9	190	344

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

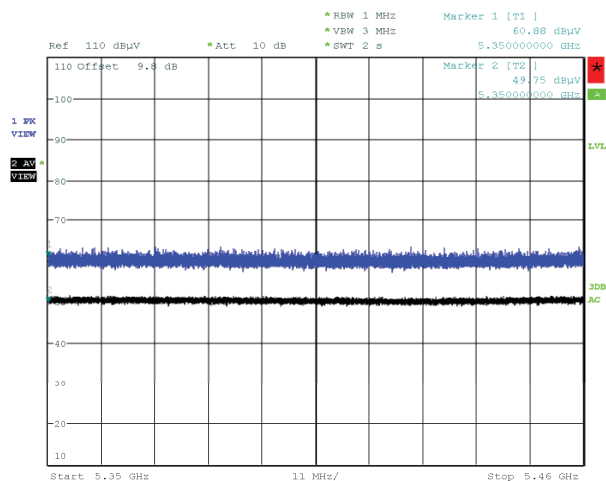
Figure 307: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-40, CDD, 5230MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Date: 21.SEP.2021 18:23:19

Vertical Antenna Orientation



Date: 21.SEP.2021 18:23:19

Table 187: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5755MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7251.026	H	56.3	0.9	57.2	74.0	16.8	130	7
7317.014	V	60.1	1.0	61.1	74.0	12.9	198	51

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 188: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5755MHz, with Bluetooth Hopping on DH5

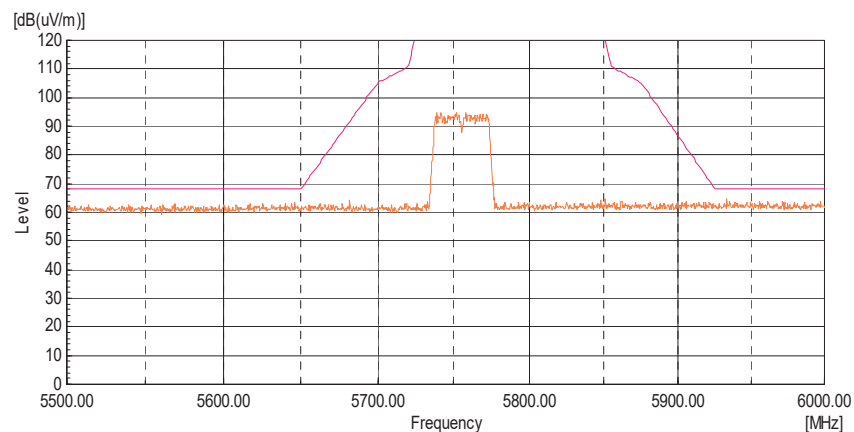
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7251.026	H	41.5	0.9	42.4	54.0	11.6	130	7
7317.014	V	43.2	1.0	44.2	54.0	9.8	198	51

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 308: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5755MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Vertical Antenna Orientation

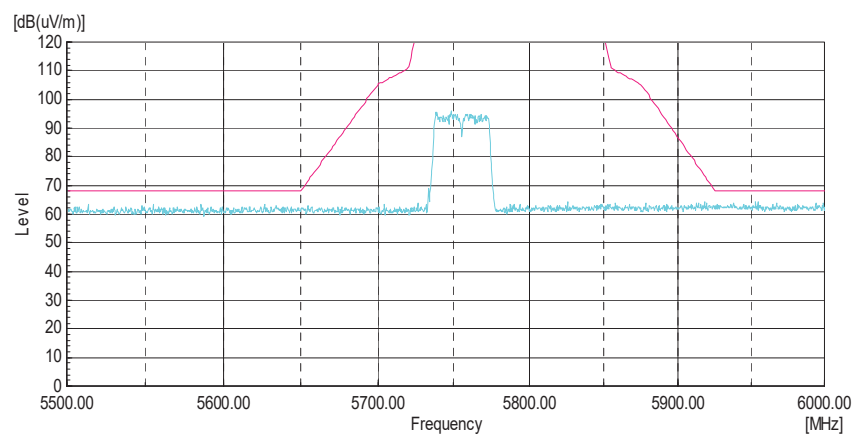


Table 189: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5795MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7317.113	V	56.2	1.0	57.2	74.0	16.8	173	316
7328.868	H	56.2	1.0	57.2	74.0	16.8	184	6

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 190: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5795MHz, with Bluetooth Hopping on DH5

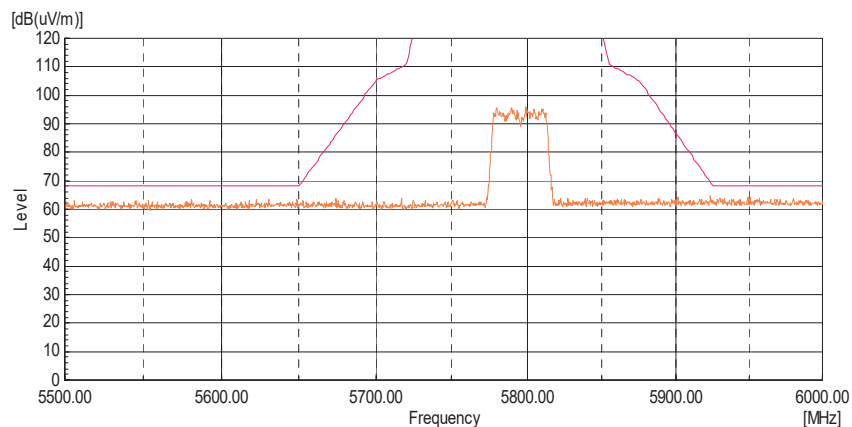
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7317.113	V	42.5	1.0	43.5	54.0	10.5	173	316
7328.868	H	42.5	1.0	43.5	54.0	10.5	184	6

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 309: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5795MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Vertical Antenna Orientation

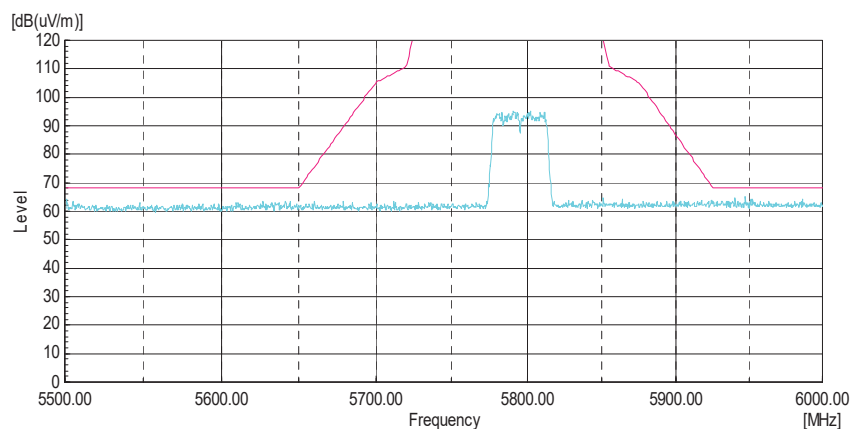


Table 191: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	66.1	-6.0	60.1	74.0	13.9	146	331
5150.000	V	59.8	-6.0	53.8	74.0	20.2	191	349
5350.000	H	55.5	-6.3	49.2	74.0	24.8	190	353
5350.000	V	54.1	-6.3	47.8	74.0	26.2	153	33

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 192: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5

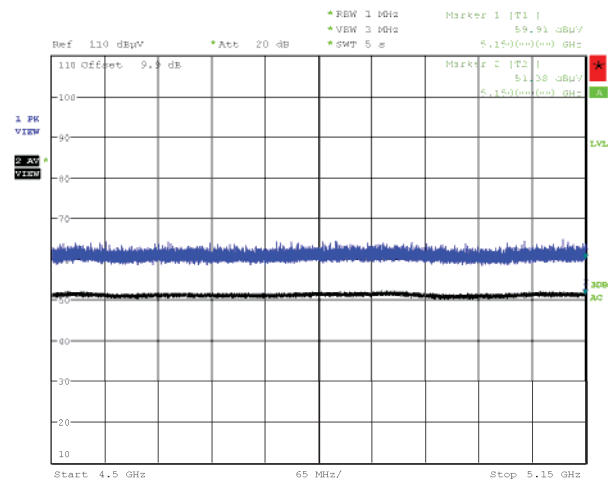
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	46.0	-6.0	40.0	54.0	14.0	146	331
5150.000	V	43.9	-6.0	37.9	54.0	16.1	191	349
5350.000	H	42.7	-6.3	36.4	54.0	17.6	190	353
5350.000	V	42.8	-6.3	36.5	54.0	17.5	153	33

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

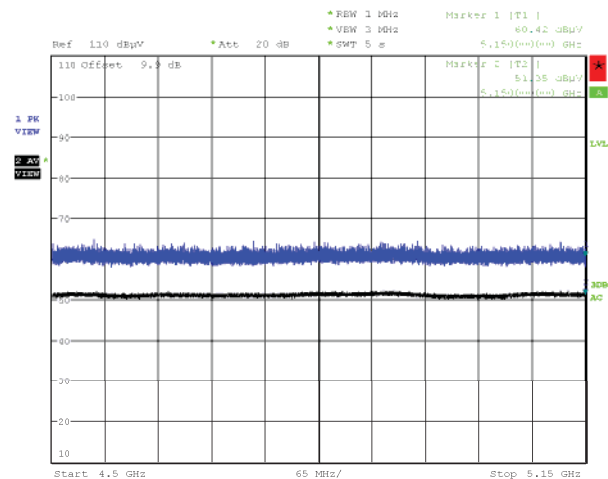
Figure 310: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation – Lower Side



Date: 30.SEP.2021 09:10:59

Vertical Antenna Orientation – Lower Side



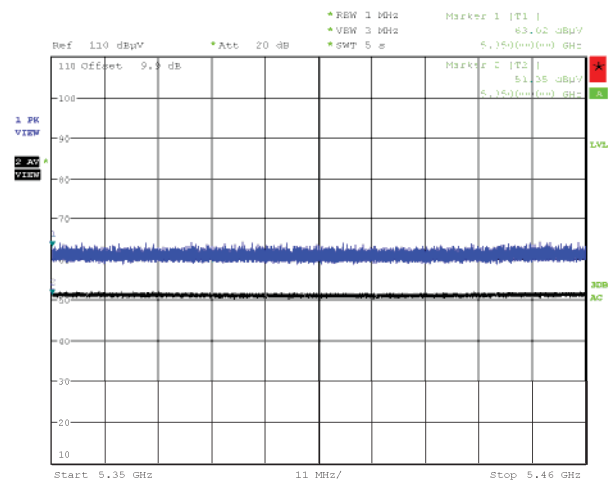
Date: 30.SEP.2021 09:03:22

Prüfbericht-Nr.:
Test Report No.:

JP211UTZ 001

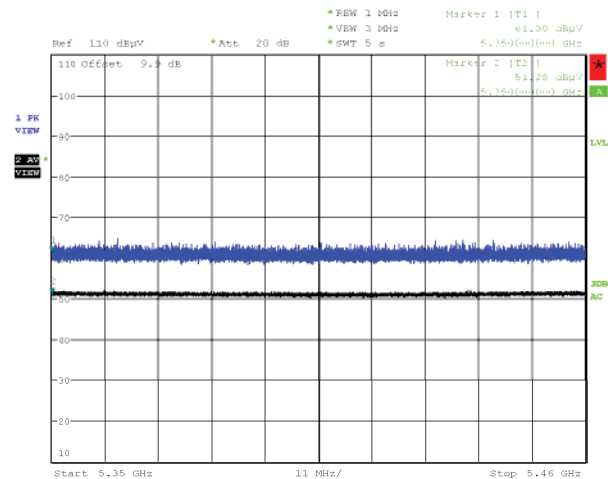
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Horizontal Antenna Orientation – Upper Side



Date: 30.SEP.2021 09:09:19

Vertical Antenna Orientation – Upper Side



Date: 30.SEP.2021 09:05:09

Table 193: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5775MHz, with Bluetooth Hopping on DH5

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7251.127	H	53.6	0.9	54.5	74.0	19.5	200	236
7263.076	V	59.0	1.0	60.0	74.0	14.0	198	36

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 194: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5775MHz, with Bluetooth Hopping on DH5

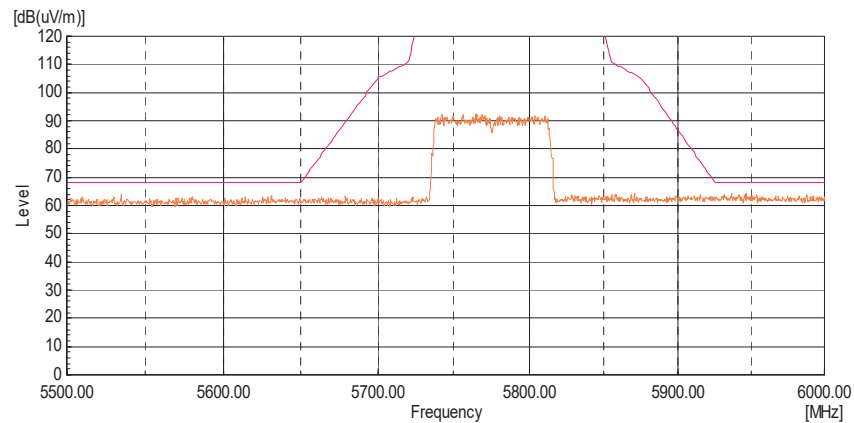
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7251.127	H	41.4	0.9	42.3	54.0	11.7	200	236
7263.076	V	43.4	1.0	44.4	54.0	9.6	198	36

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 311: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5775MHz, with Bluetooth Hopping on DH5

Horizontal Antenna Orientation



Vertical Antenna Orientation

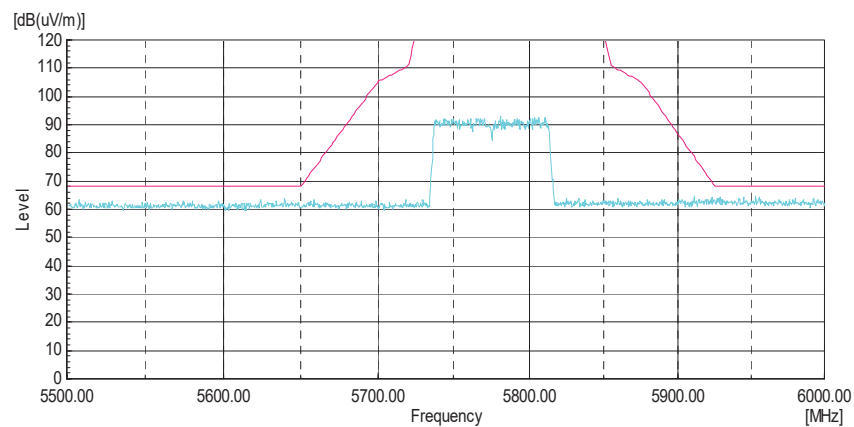


Table 195: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5180MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	64.9	-6.0	58.9	74.0	15.1	161	0
5150.000	V	65.4	-6.0	59.4	74.0	14.6	200	12

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 196: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5180MHz, with 802.11n-20 on 2437MHz

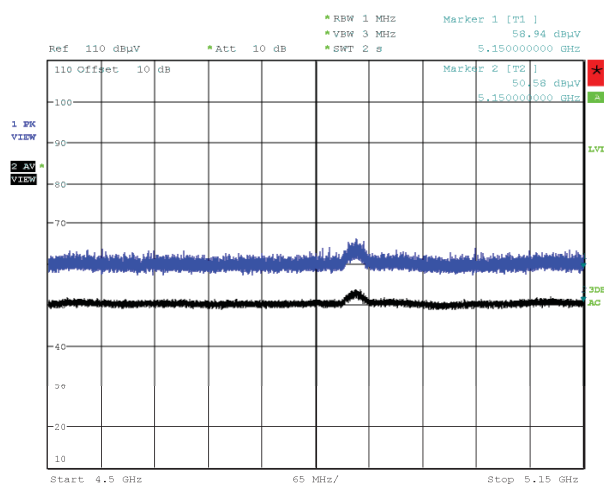
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	42.4	-6.0	36.4	54.0	17.6	161	0
5150.000	V	42.2	-6.0	36.2	54.0	17.8	200	12

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

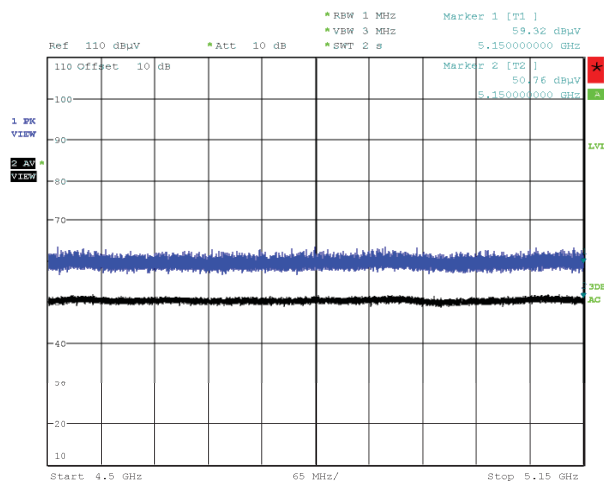
Figure 312: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-20, CDD, 5180MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 16:03:15

Vertical Antenna Orientation



Date: 21.SEP.2021 16:10:05

Table 197: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5350.000	H	53.2	-6.3	46.9	74.0	27.1	147	50
5350.000	V	53.1	-6.3	46.8	74.0	27.2	196	302

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 198: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5240MHz, with 802.11n-20 on 2437MHz

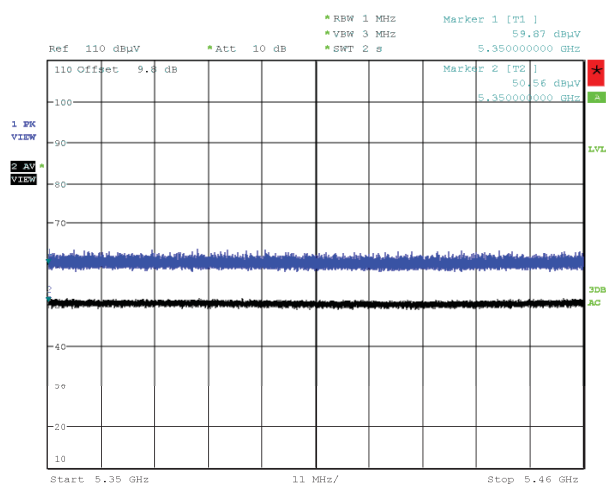
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5350.000	H	40.9	-6.3	34.6	54.0	19.4	147	50
5350.000	V	41.1	-6.3	34.8	54.0	19.2	196	302

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

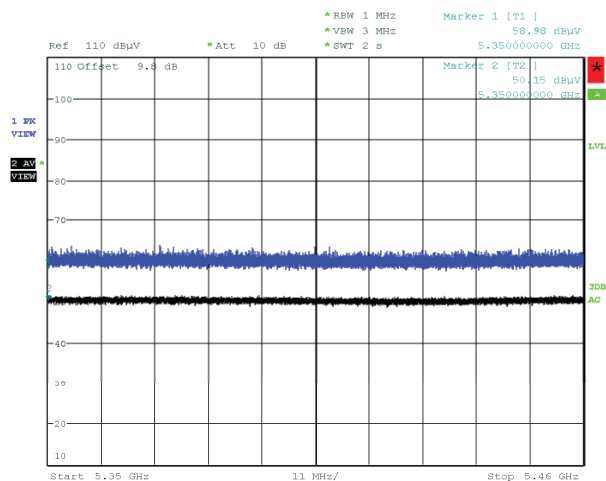
Figure 313: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-20, CDD, 5240MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 16:47:56

Vertical Antenna Orientation



Date: 21.SEP.2021 17:05:00

Table 199: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5745MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7282.076	H	53.3	1.0	54.3	74.0	19.7	200	28
7362.545	V	53.7	0.9	54.6	74.0	19.4	166	143

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 200: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5745MHz, with 802.11n-20 on 2437MHz

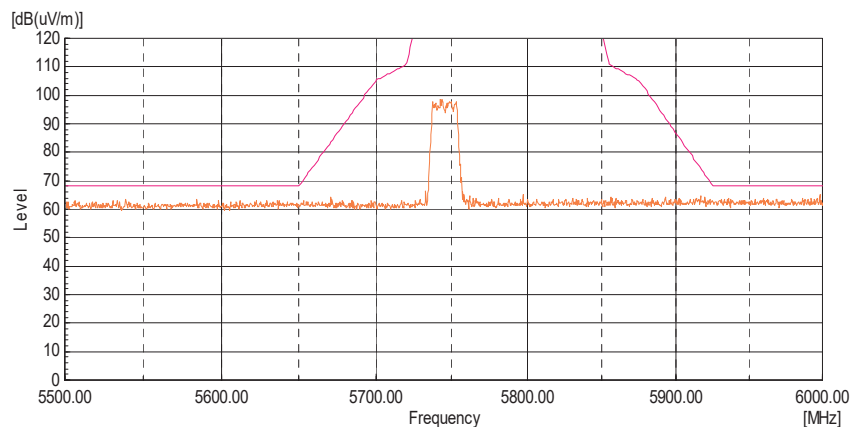
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7282.076	H	41.2	1.0	42.2	54.0	11.8	200	28
7362.545	V	41.3	0.9	42.2	54.0	11.8	166	143

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 314: Radiated Emissions at Band Edge, Peak, 802.11ac-20, CDD, 5745MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

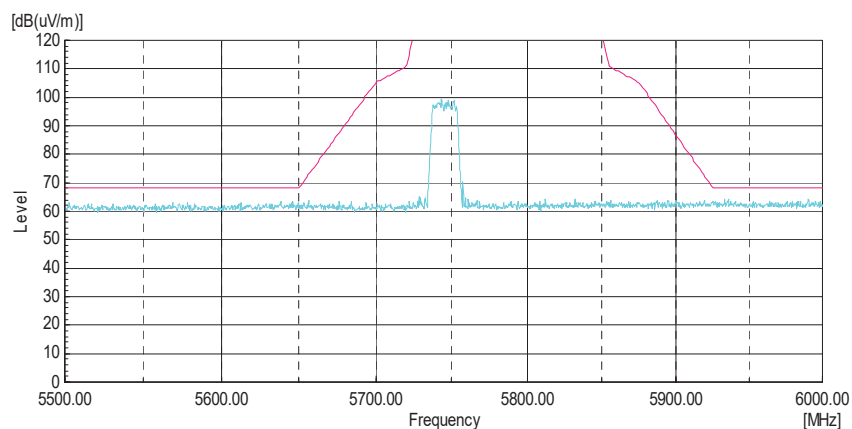


Table 201: Radiated Emissions, Quasi Peak Data, 30MHz - 1GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
148.347	H	58.2	-21.0	37.2	43.5	6.3	222	343

Note: Level QP = Reading QP + Factor

Table 202: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7353.743	H	54.0	1.0	55.0	74.0	19.0	105	326
7473.287	V	53.0	0.7	53.7	74.0	20.3	160	0

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 203: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-20, CDD, 5825MHz, with 802.11n-20 on 2437MHz

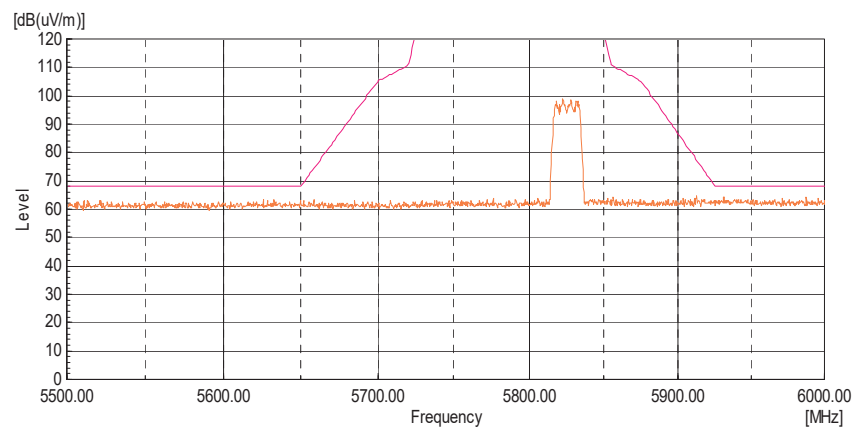
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7353.743	H	41.3	1.0	42.3	54.0	11.7	105	326
7473.287	V	41.2	0.7	41.9	54.0	12.1	160	0

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 315: Radiated Emissions at Band Edge, Peak, 802.11ac-20, CDD, 5825MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

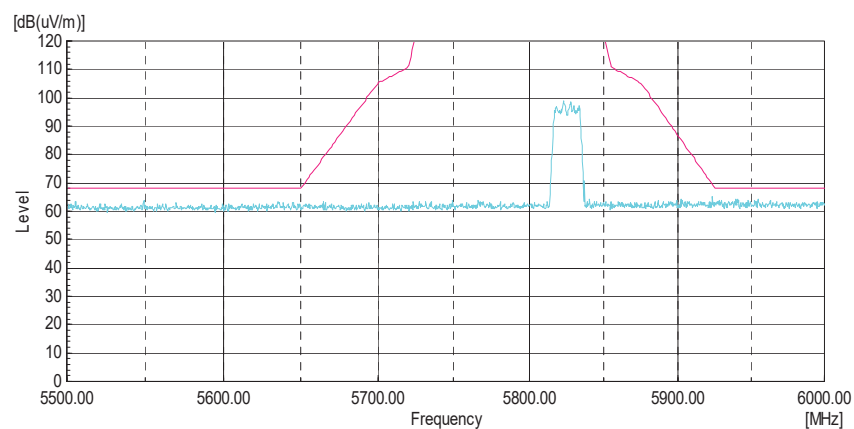


Table 204: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5190MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	56.4	-6.0	50.4	74.0	23.6	154	334
5150.000	V	57.5	-6.0	51.5	74.0	22.5	190	348

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 205: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5190MHz, with 802.11n-20 on 2437MHz

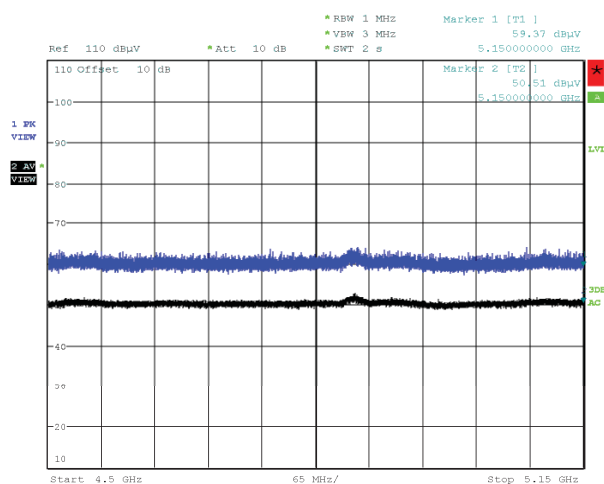
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	42.9	-6.0	36.9	54.0	17.1	154	334
5150.000	V	42.6	-6.0	36.6	54.0	17.4	190	348

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

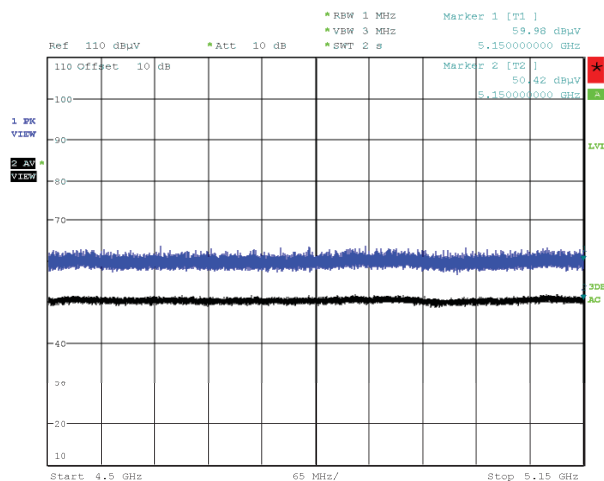
Figure 316: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-40, CDD, 5190MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 17:40:11

Vertical Antenna Orientation



Date: 21.SEP.2021 17:46:12

Table 206: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5230MHz, with 802.11n-20 on 2437MHz

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5350.000	H	53.5	-6.3	47.2	74.0	26.8	191	53
5350.000	V	52.9	-6.3	46.6	74.0	27.4	190	169

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 207: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5230MHz, with 802.11n-20 on 2437MHz

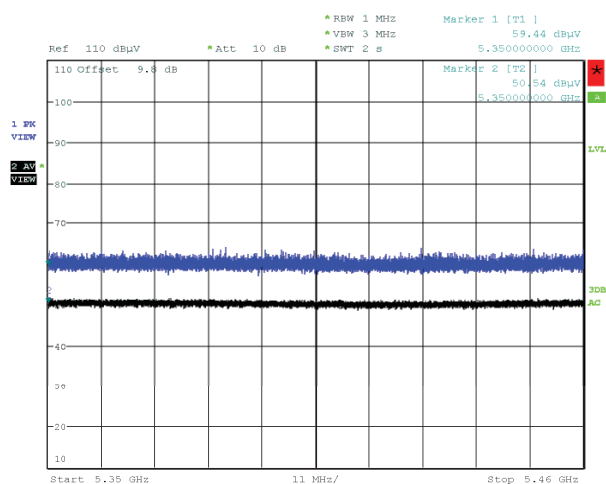
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5350.000	H	42.3	-6.3	36.0	54.0	18.0	191	53
5350.000	V	42.3	-6.3	36.0	54.0	18.0	190	169

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

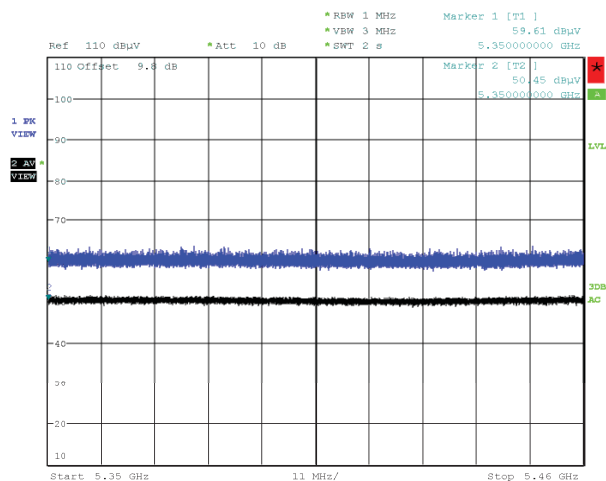
Figure 317: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-40, CDD, 5230MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Date: 21.SEP.2021 18:14:19

Vertical Antenna Orientation



Date: 21.SEP.2021 18:16:50

Table 208: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5755MHz, with 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7461.872	H	53.8	0.8	54.6	74.0	19.4	105	295
7548.188	V	53.2	0.5	53.7	74.0	20.3	105	106

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 209: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5755MHz, with 802.11n-20 on 2437MH

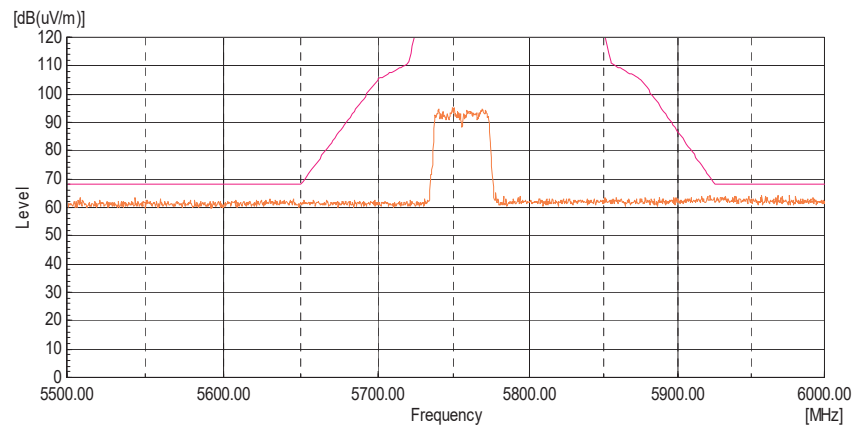
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7461.872	H	41.2	0.8	42.0	54.0	12.0	105	295
7548.188	V	41.0	0.5	41.5	54.0	12.5	105	106

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 318: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5755MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

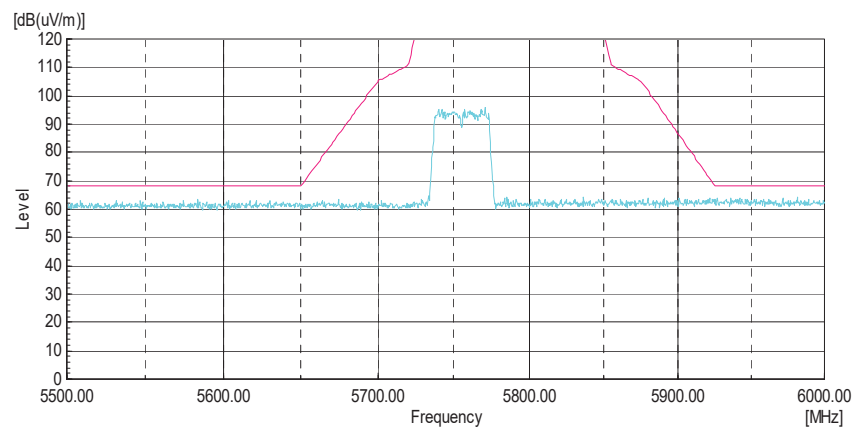


Table 210: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5795MHz, with 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7491.130	H	53.0	0.7	53.7	74.0	20.3	129	309
7657.419	V	53.2	0.1	53.3	74.0	20.7	114	354

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 211: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-40, CDD, 5795MHz, with 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7491.130	H	40.9	0.7	41.6	54.0	12.4	129	309
7657.419	V	40.9	0.1	41.0	54.0	13.0	114	354

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

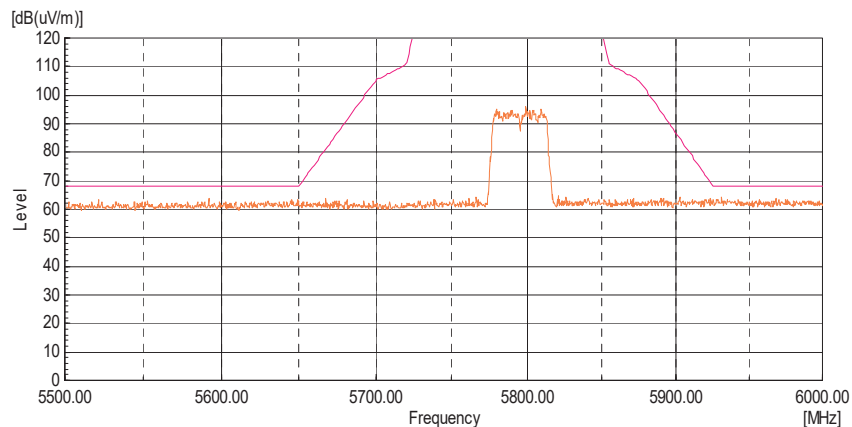
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Figure 319: Radiated Emissions at Band Edge, Peak, 802.11ac-40, CDD, 5795MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

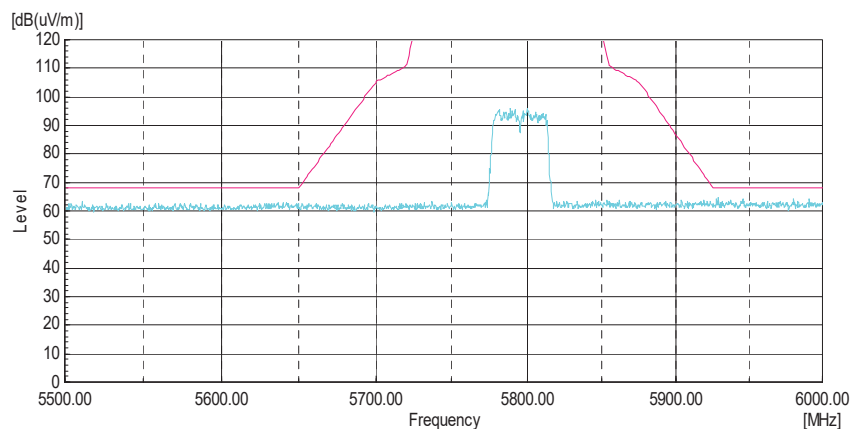


Table 212: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz, with 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	55.9	-6.0	49.9	74.0	24.1	146	348
5150.000	V	57.7	-6.0	51.7	74.0	22.3	172	344
5350.000	H	54.2	-6.3	47.9	74.0	26.1	177	350
5350.000	V	53.3	-6.3	47.0	74.0	27.0	190	33

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 213: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz, with 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	47.3	-6.0	41.3	54.0	12.7	146	348
5150.000	V	47.7	-6.0	41.7	54.0	12.3	172	344
5350.000	H	42.8	-6.3	36.5	54.0	17.5	177	350
5350.000	V	42.4	-6.3	36.1	54.0	17.9	190	33

Note: Level AV = Reading AV + Factor

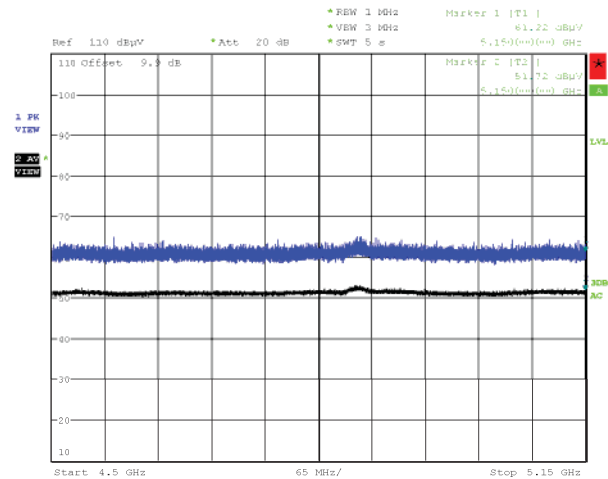
Average results are measured with 1kHz of VBW

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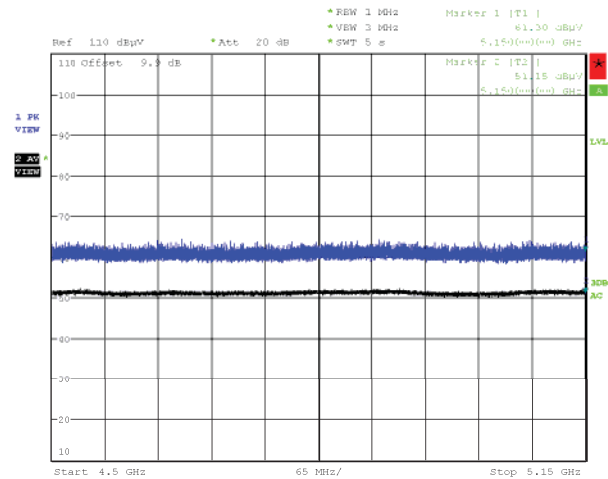
Figure 320: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-80, CDD, 5210MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation – Lower Side



Date: 30.SEP.2021 08:30:57

Vertical Antenna Orientation – Lower Side



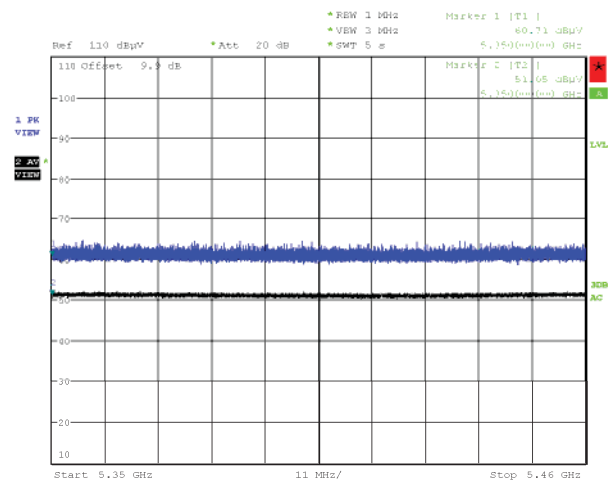
Date: 30.SEP.2021 08:48:26

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Test Report No.:

JP211UTZ 001

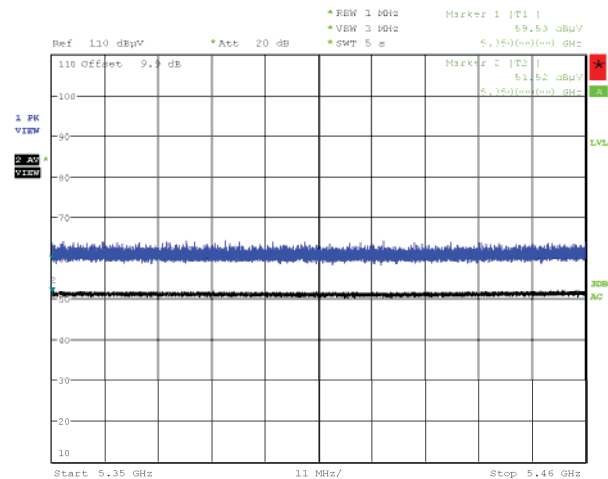
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Horizontal Antenna Orientation – Upper Side



Date: 30.SEP.2021 08:33:43

Vertical Antenna Orientation – Upper Side



Date: 30.SEP.2021 08:46:33

Table 214: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5775MHz, with 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
7331.622	V	54.3	1.0	55.3	74.0	18.7	191	42
7543.349	H	53.7	0.6	54.3	74.0	19.7	100	314

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm ($1.995 \times 10^{-6}W$), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 215: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5775MHz, with 802.11n-20 on 2437MH

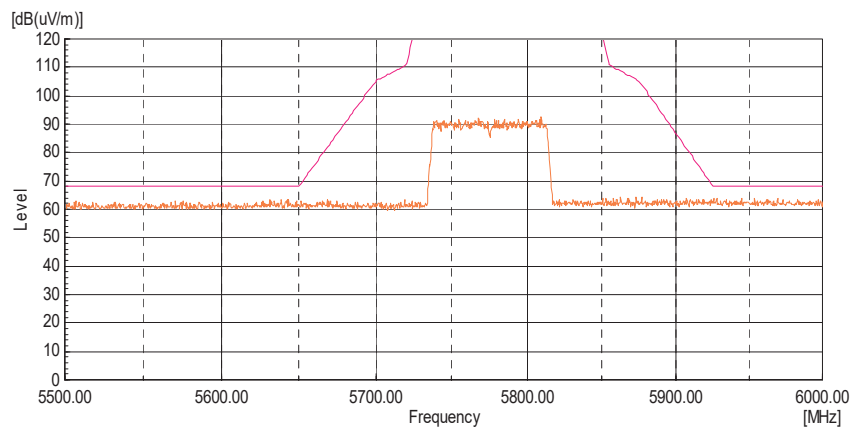
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
7331.622	V	41.2	1.0	42.2	54.0	11.8	191	42
7543.349	H	41.0	0.6	41.6	54.0	12.4	100	314

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

Figure 321: Radiated Emissions at Band Edge, Peak, 802.11ac-80, CDD, 5775MHz, with 802.11n-20 on 2437MHz

Horizontal Antenna Orientation



Vertical Antenna Orientation

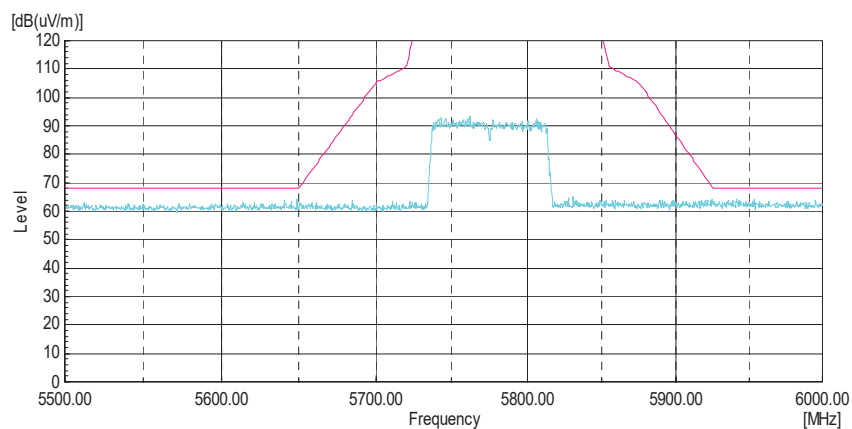


Table 216: Radiated Emissions, Quasi Peak Data, 9kHz - 30MHz, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5 and 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading QP [dBμV]	Factor [dB(1/m)]	Level QP [dBμV/m]	Limit [dBμV/m]	Margin QP [dB]	Height [cm]	Angle [°]
0.01371	H	29.6	19.8	49.4	125.0	75.6	100.0	186
0.38338	H	26.7	19.6	46.3	96.0	49.7	100.0	252
1.51601	H	17.2	19.8	37.0	64.0	27.0	100.0	4
1.93180	H	15.6	19.8	35.4	69.5	34.1	100.0	30
2.57502	H	16.0	19.8	35.8	69.5	33.7	100.0	7
28.17876	H	16.2	21.0	37.2	69.5	32.3	100.0	29
0.01069	V	27.5	20.0	47.5	127.1	79.6	100.0	192
0.01365	V	34.0	19.8	53.8	125.0	71.2	100.0	190
0.38501	V	26.4	19.6	46.0	95.9	49.9	100.0	196
0.66808	V	7.3	19.7	27.0	71.1	44.1	100.0	225
2.57573	V	12.2	19.8	32.0	69.5	37.5	100.0	270
27.79529	V	16.4	20.9	37.3	69.5	32.2	100.0	52

Note: Level QP = Reading QP + Factor

Table 217: Radiated Emissions, Peak Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5 and 802.11n-20 on 2437MH

Freq. [MHz]	Antenna Orientation	Reading PK [dBμV]	Factor [dB(1/m)]	Level PK [dBμV/m]	Limit [dBμV/m]	Margin PK [dB]	Height [cm]	Angle [°]
5150.000	H	64.4	-6.0	58.4	74.0	15.6	196	349
5150.000	V	59.2	-6.0	53.2	74.0	20.8	146	344
5350.000	H	54.1	-6.3	47.8	74.0	26.2	106	318
5350.000	V	54.4	-6.3	48.1	74.0	25.9	192	330
10423.489	V	50.6	-7.3	43.3	68.2	24.9	187	65
10431.034	H	50.6	-7.3	43.4	68.2	24.8	147	154
15629.379	H	52.2	-5.0	47.2	74.0	26.8	160	300
15632.835	V	52.1	-5.0	47.1	74.0	26.9	157	225
20960.000	H	53.1	-10.7	42.4	74.0	31.6	182	338

Note: Level PK = Reading PK + Factor

The e.i.r.p. peak limit for frequency range outside the restricted band is -27dBm (1.995×10^{-6} W), with which the field strength limit is calculated as below:

Field Strength Limit = $\text{Sqrt}(\text{e.i.r.p. [W]} \times 30) / \text{distance [m]} = 0.00257 \text{ [V/m]} = 68.2 \text{ [dBμV/m]}$

Table 218: Radiated Emissions, Average Data, 1 - 40GHz, Horizontal and Vertical Antenna Orientations, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5 and 802.11n-20 on 2437MH

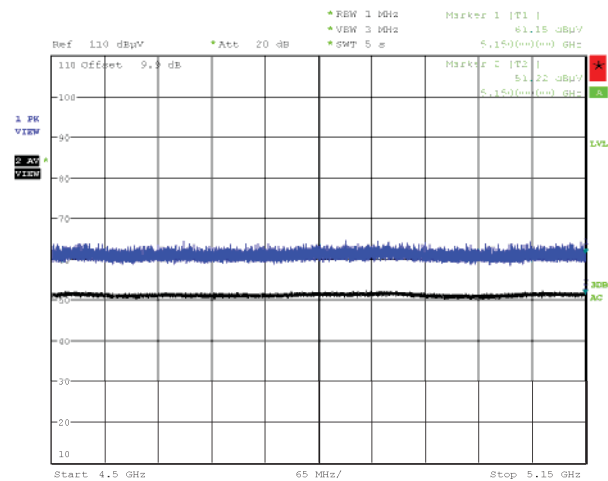
Freq. [MHz]	Antenna Orientation	Reading AV [dBμV]	Factor [dB(1/m)]	Level AV [dBμV/m]	Limit [dBμV/m]	Margin AV [dB]	Height [cm]	Angle [°]
5150.000	H	46.4	-6.0	40.4	54.0	13.6	196	349
5150.000	V	44.4	-6.0	38.4	54.0	15.6	146	344
5350.000	H	42.4	-6.3	36.1	54.0	17.9	106	318
5350.000	V	42.5	-6.3	36.2	54.0	17.8	192	330
15629.379	H	40.2	-5.0	35.2	54.0	18.8	160	300
15632.835	V	40.2	-5.0	35.2	54.0	18.8	157	225
20960.000	H	38.1	-10.7	27.4	54.0	26.6	182	338

Note: Level AV = Reading AV + Factor

Average results are measured with 1kHz of VBW

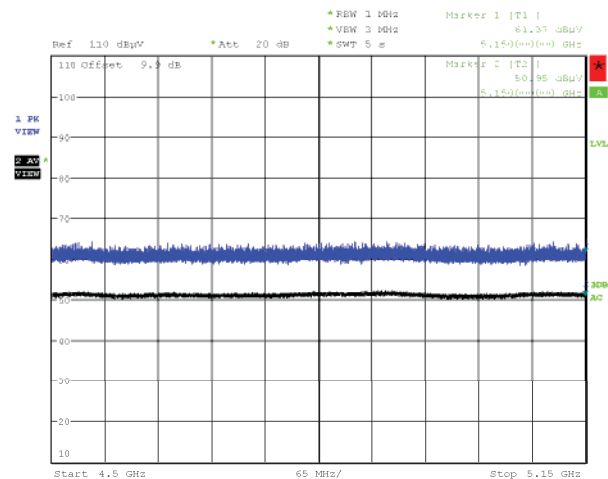
Figure 322: Radiated Emissions at Band Edge, Peak and Average, 802.11ac-80, CDD, 5210MHz, with Bluetooth Hopping on DH5 and 802.11n-20 on 2437MH

Horizontal Antenna Orientation – Lower Side



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Vertical Antenna Orientation – Lower Side



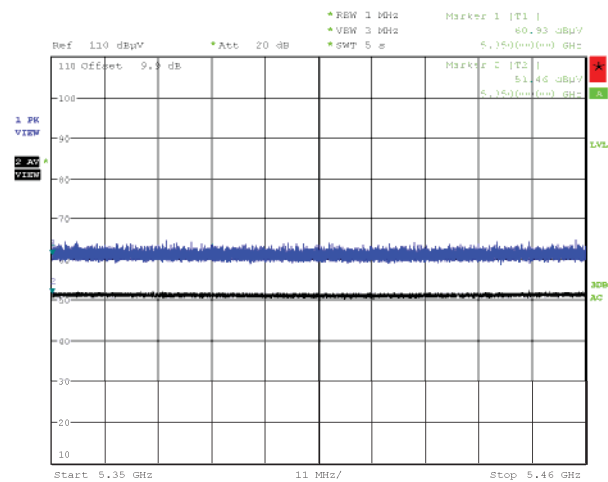
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Prüfbericht-Nr.:
Test Report No.:

JP211UTZ 001

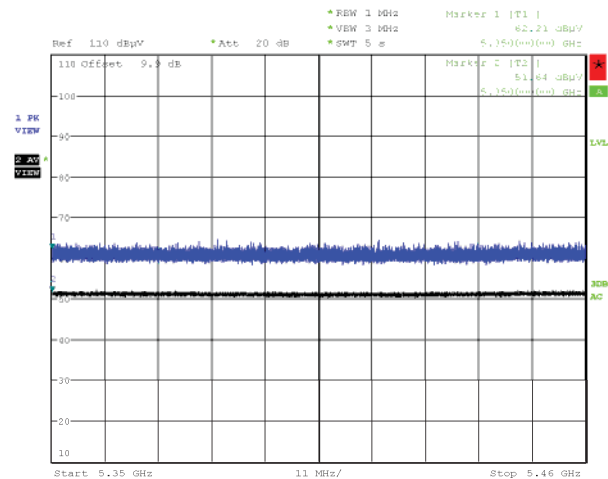
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Horizontal Antenna Orientation – Upper Side



Date: 30.SEP.2021 09:15:48

Vertical Antenna Orientation – Upper Side



Date: 30.SEP.2021 09:17:51

5.4 AC Power Line Conducted Measurements

5.4.1 AC Power Line Conducted Emission of Transmitter

RESULT:

N/A

Requirements:

FCC 15.207 and RSS-Gen §8.8

The AC power line conducted emission on any frequency within the band 150kHz to 30MHz shall not exceed the limits specified in FCC 15.207 and RSS-Gen 8.8.

Test procedure:

ANSI C63.10 §6.2

Note:

Not applicable since the EUT is not the device that is designed to be connected to the public utility (AC) power line.

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– End of test report –