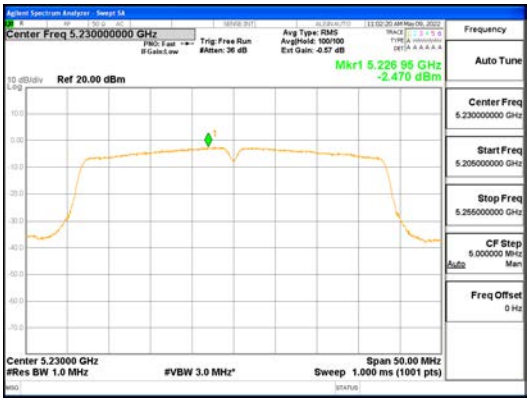
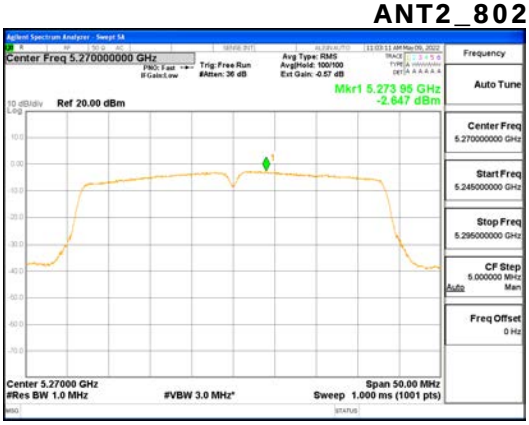
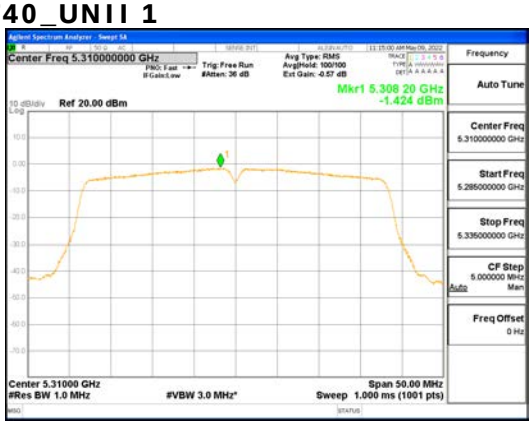
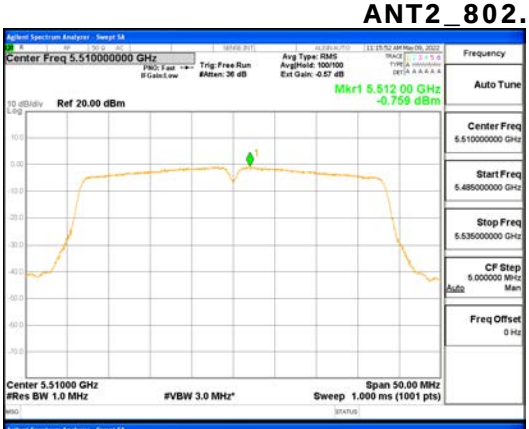


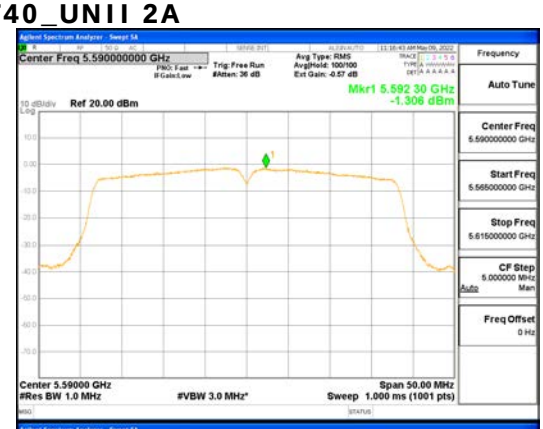
ANT2_802.11n_HT40_UNII 1

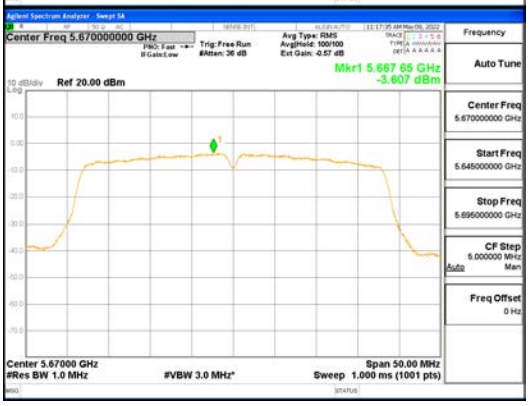


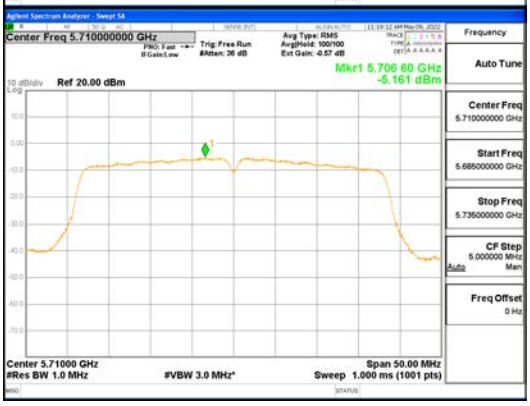


ANT2_802.11n_HT40_UNII 2A

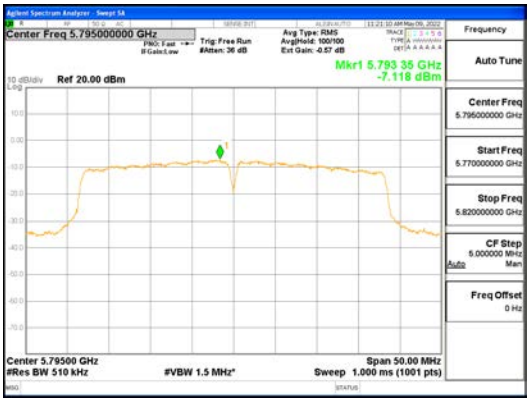




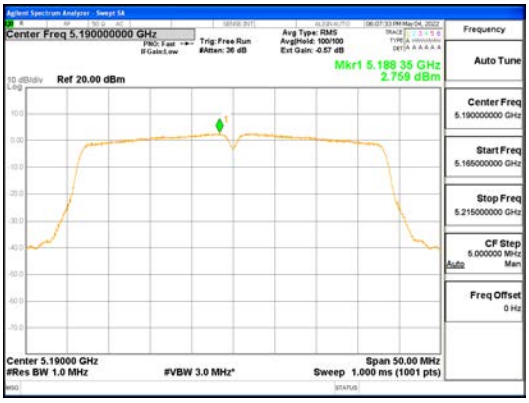


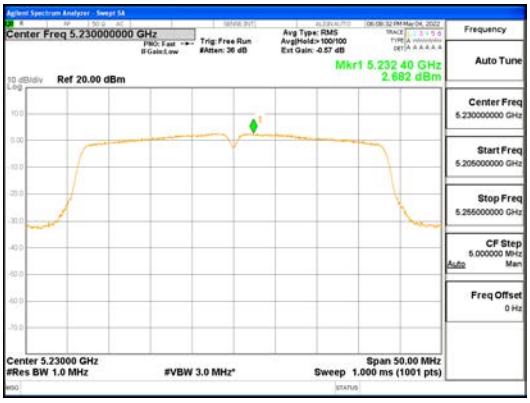


ANT2_802.11n_HT40_UNII 2C



ANT2_802.11n_HT40_UNII 3





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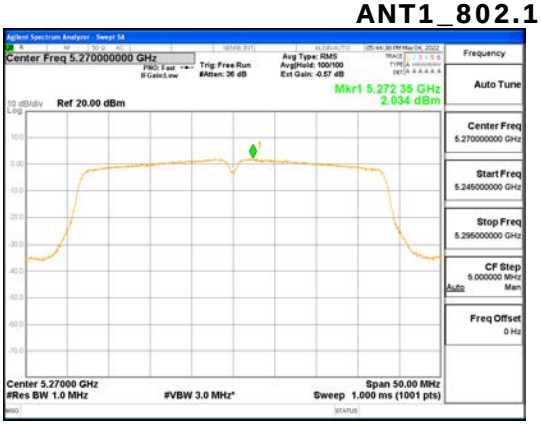
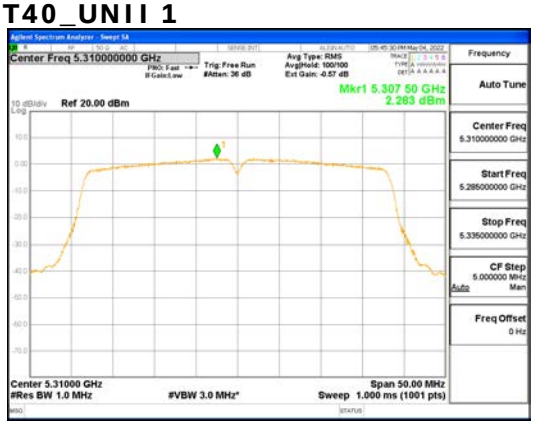
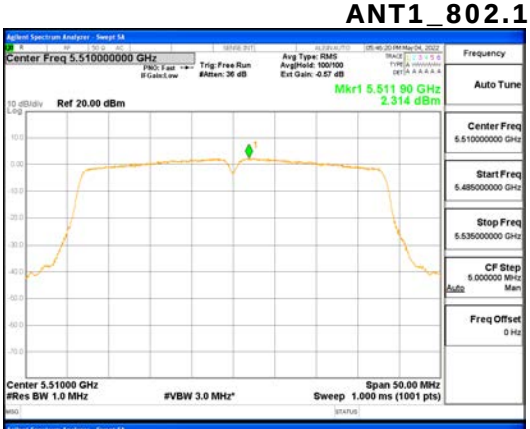
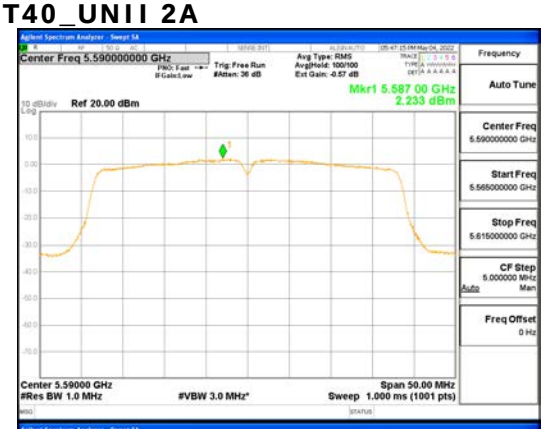
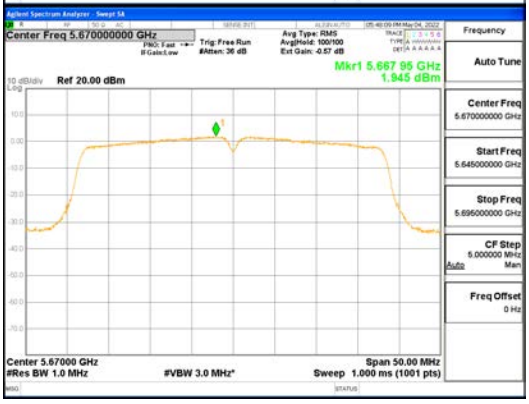


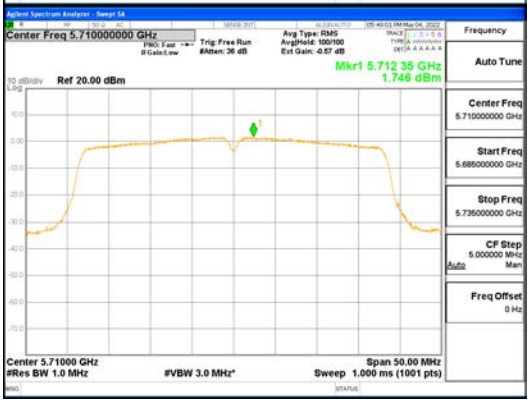


ANT1_802.11ac_VHT40_UNII 2A

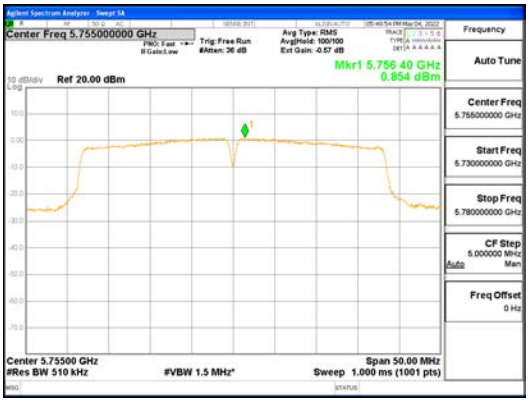


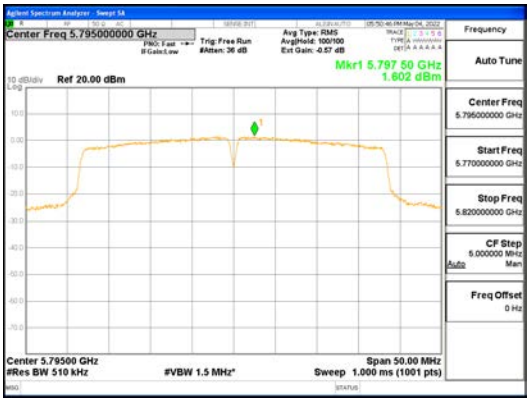




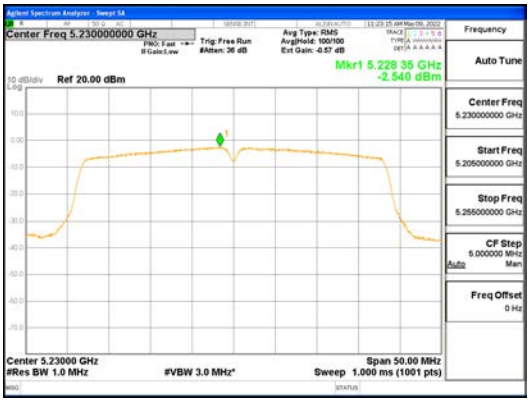


ANT1_802.11ac_VHT40_UNII 2C





ANT1_802.11ac_VHT40_UNII 3



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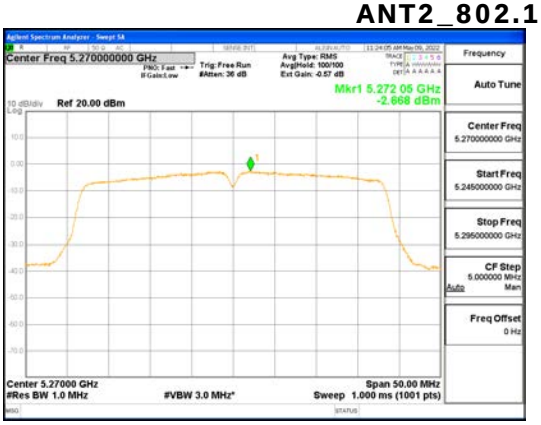

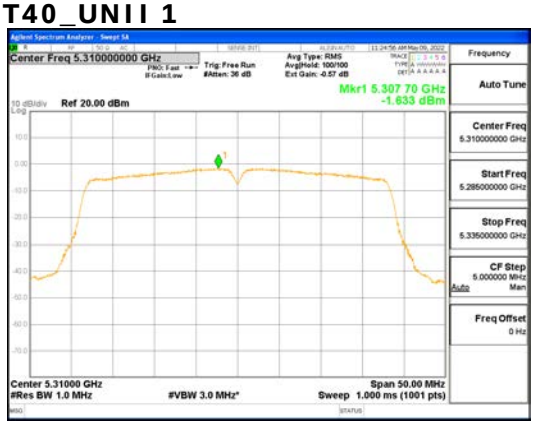

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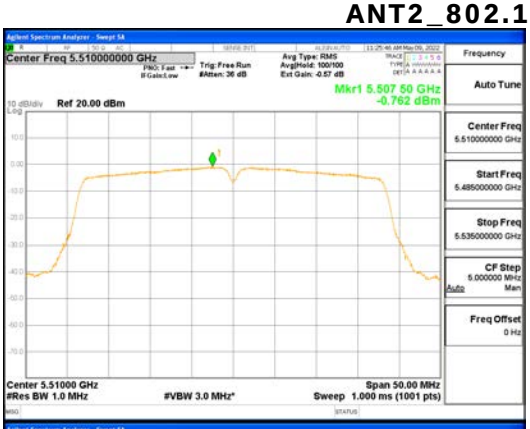
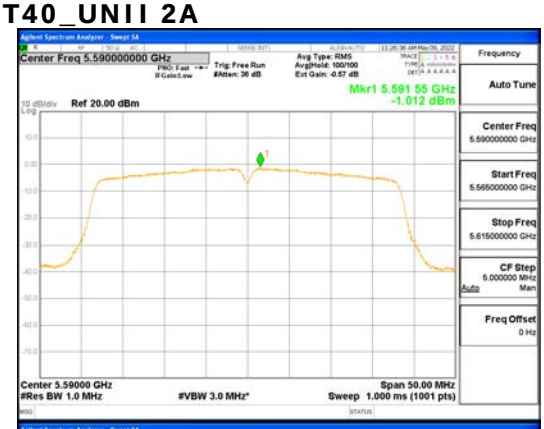
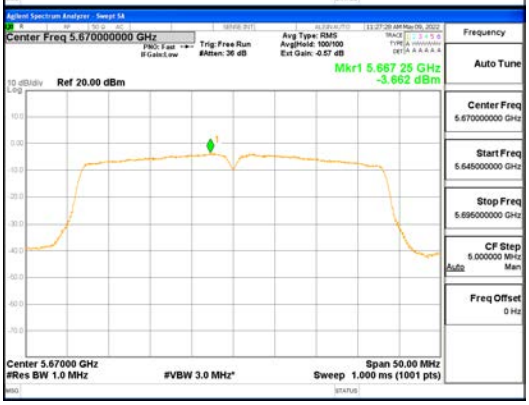
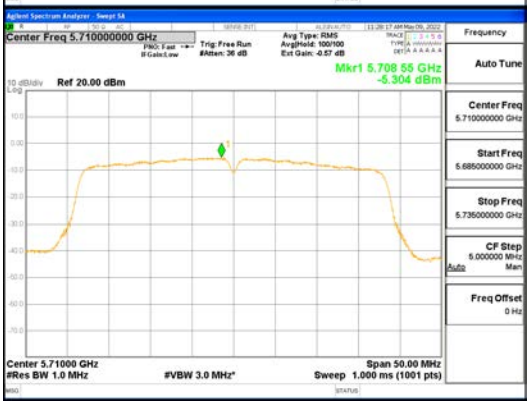


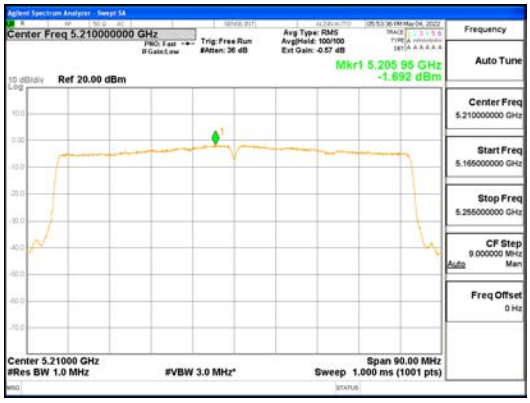




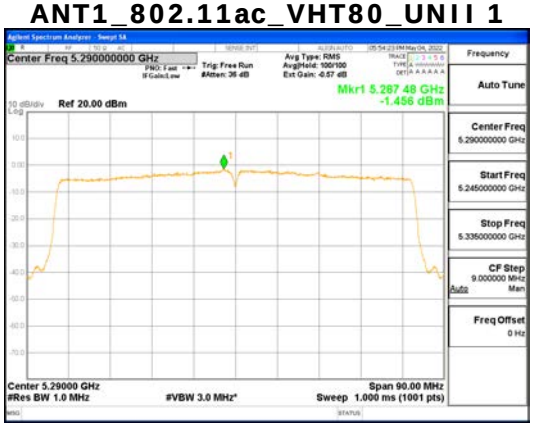


ANT2_802.11ac_VHT40_UNII 2C

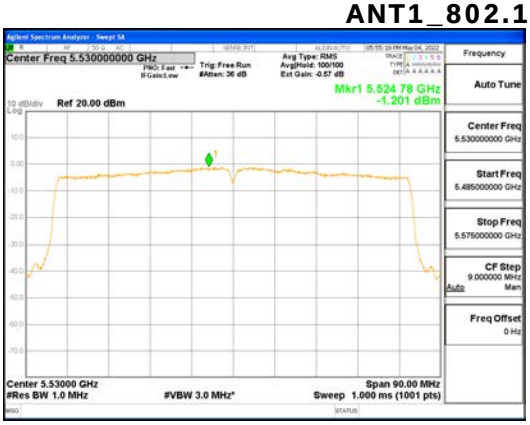
ANT2_802.11ac_VHT40_UNII 3

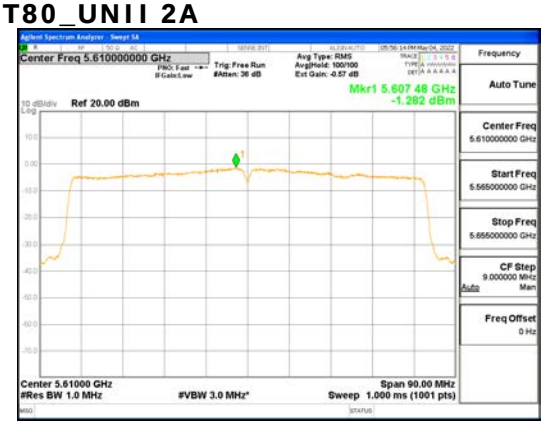


ANT1_802.11ac_VHT80_UNII 1

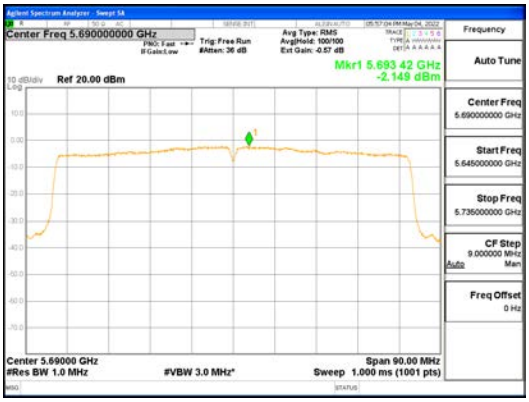


ANT1_802.11ac_VHT80_UNII 2A





ANT1_802.11ac_VHT80_UNII 2C



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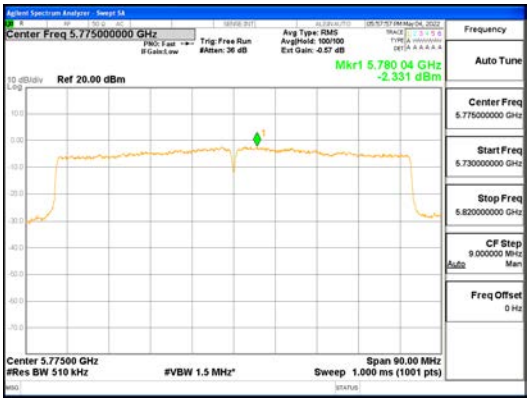
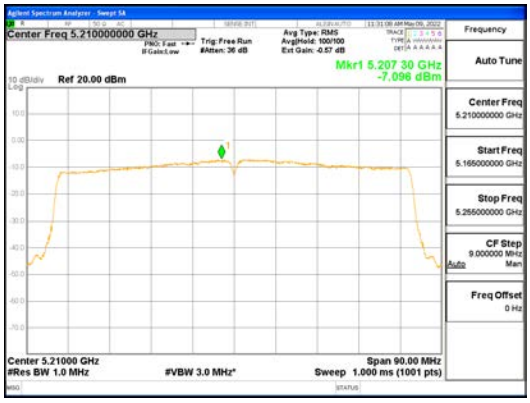


ANT1_802.11ac_VHT80_UNII 3



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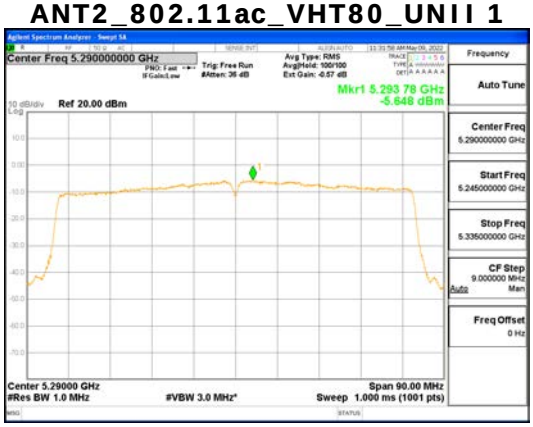
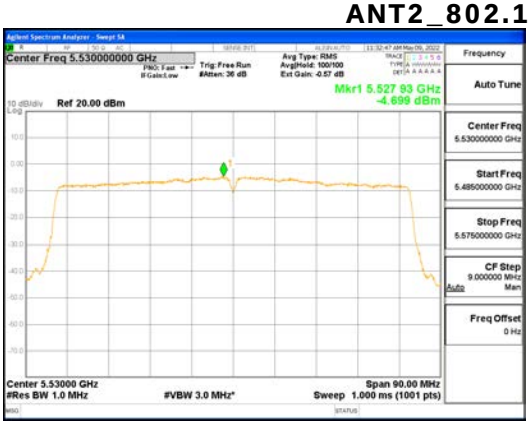
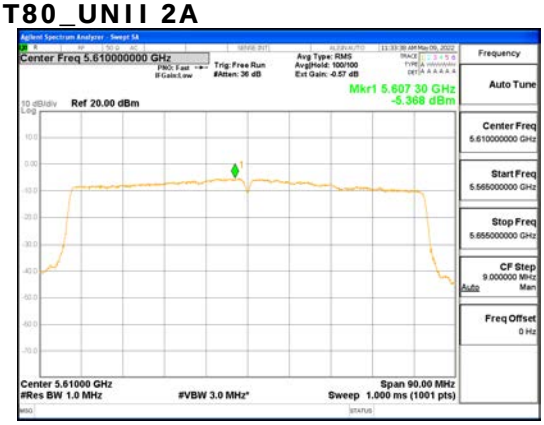
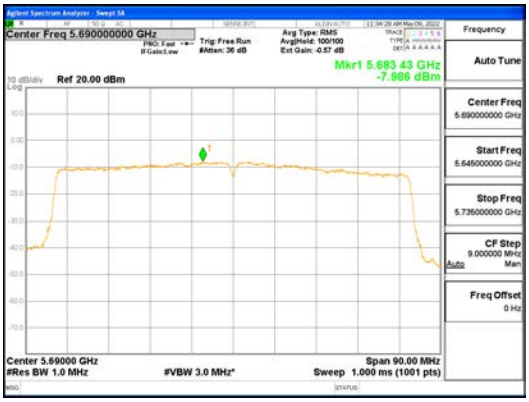


ANT2_802.11ac_VHT80_UNII 2A

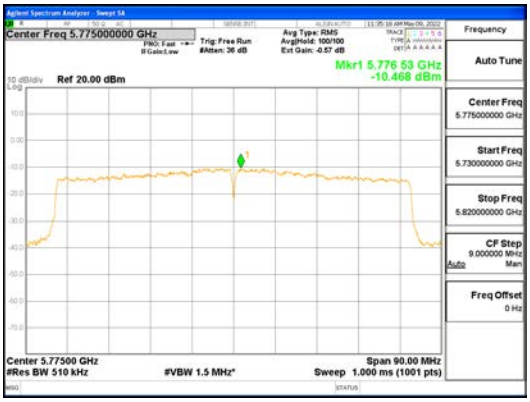




ANT2_802.11ac_VHT80_UNII 2C



ANT2_802.11ac_VHT80_UNII 2C



ANT2_802.11ac_VHT80_UNII 3

4.5 Frequency Stability

Test Procedures

KDB 789033 – Section A.3

The EUT was placed inside of an environmental chamber as the temperature in the chamber was varied between -10 ℃ and +50 ℃(Declaration by the Manufacturer). The temperature was incremented by 10 ℃ intervals and the unit was allowed to stabilize at each temperature before each measurement. The center frequency of the transmitting channel was evaluated at each temperature and the frequency deviation from the channel's center frequency was recorded.

Data for the worst case channel is shown below.

Measured Frequency Error (kHz)							
Voltage (VDC)	Temperature (℃)	Test Frequency (MHz)					
		5 180	5 200	5 240	5 260	5 300	5 320
5.0	-10	32 232	31 699	31 460	31 499	31 829	32 079
5.0	0	24 674	22 589	24 661	21 351	21 432	21523
5.0	10	8 391	7 567	6 809	6 606	6 654	6 790
5.0	20(Ref)	-8 411	-8 694	-9 265	-9 352	-9 230	-9 119
5.0	30	-22 560	-22 742	-23 358	-23 488	-23 551	-23 489
5.0	40	-28 717	-27 176	-28 440	-28 857	-29 133	-29 225
5.0	50	-30 334	-30 097	-30 157	-29 866	-29 700	-29 600
4.25	20(Ref)	-27 694	-28 427	-29 446	-29 966	-30 214	-30 354
5.75	20(Ref)	-26 994	-28 406	-27 040	-27 354	-28 111	-28 615

Measured Frequency Error (kHz)							
Voltage (VDC)	Temperature (℃)	Test Frequency (MHz)					
		5 500	5 600	5 720	5 745	5 785	5 825
5.0	-10	33 018	33 591	34 371	34 363	34 454	34 782
5.0	0	21 900	22 227	22 827	22 612	22 521	22 856
5.0	10	6 754	6 741	6 915	6 733	6 613	6 800
5.0	20(Ref)	-9 560	-9 841	-10 073	-10 321	-10 589	-10 567
5.0	30	-24 475	-24 928	-25 410	-25 608	-26 004	-26 033
5.0	40	-30 472	-31 109	-31 675	-31 943	-32 382	-32 465
5.0	50	-30 541	-30 973	-31 466	-31 461	-31 872	-31 881
4.25	20(Ref)	-31 633	-32 452	-33 051	-33 312	-33 801	-33 932
5.75	20(Ref)	-30 124	-31 014	-31 866	-32 294	-32 882	-33 108

Note :

Based on the results of the frequency stability test shown above the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature range as tested.

4.6 Unwanted Emissions

Test Location

☒ 10 m SAC (test distance : ☐ 10 m, ☒ 3 m)
☒ 3 m SAC (test distance : 3 m)

Test Procedures

KDB 789033 - Section G
ANSI C63.10-2013 – Section 12.7

1) In the frequency range of 9 kHz to 30 MHz, magnetic field is measured with Loop Antenna. The Test Antenna is positioned with its plane vertical at 1m distance from the EUT. The center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates about its vertical axis for maximum response at each azimuth about the EUT.
2) In the frequency range above 30 MHz, Bi-Log Test Antenna(30 MHz to 1 GHz) and Horn Test Antenna(above 1 GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is carried from 1m to 4m above the ground to determine the maximum value of the field strength. The emissions levels at both horizontal and vertical polarizations should be tested.

Test Settings:

Frequency Range = 9 kHz ~ 1 GHz

a) RBW = 100 kHz for f < 1 GHz, 9 kHz for f < 30 MHz

b) VBW ≥ RBW

c) Detector = CISPR Quasi-peak

d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Detector = Peak

d) Sweep time = auto

e) Trace mode = max hold

- Average (duty cycle ≥ 98%)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)

- Average (duty cycle < 98%)

Frequency Range = 1 GHz ~ 40 GHz

a) RBW = 1 MHz

b) VBW ≥ 3 x RBW

c) Detector = RMS

d) Sweep time = auto

e) Averaging type = power (i.e., RMS)

f) Trace mode = average (at least 100 traces)
If power averaging (RMS) mode, then the applicable correction factor is 10 log(1/x), where x is the duty cycle.

Test mode	Duty Cycle Factor
802.11a	0.15 dB
802.11n_HT20	0.16 dB
802.11n_HT40	0.30 dB
802.11ac_VHT20	0.16 dB
802.11ac_VHT40	0.32 dB
802.11ac_VHT80	0.62 dB

Limit

1. UNII 1, 2A : All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

2. UNII 2C : All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

3. UNII 3 : 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.

* E.I.R.P -27 dBm/MHz
E[dBuV/m] = EIRP[dBm] + 95.2, for d = 3m

4. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.

- 15.209(a)

Frequency(MHz)	Field Strength uV/m@3m	Field Strength dBuV/m@3m	Deasurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	30
1.705-30	30	-	30
30-88	100**	40	3
88-216	150**	43.5	3
216-960	200**	46	3
Above 960	500	54	3

** Except as provided in 15.209(g).fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72MHz, 76-88MHz, 174-216MHz, 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

5. FCC Part 15 § 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	MHz	MHz	GHz
0.09-0.11	8.37626-8.38675	73-74.6	399.9-410	2690-2900	10.6-12.7
[1]0.495-0.505	8.41425-8.41475	74.8-75.2	608-614	3260-3267	13.25-13.4
2.1735-2.1905	12.29-12.293	108-121.94	960-1240	3332-3339	14.47-14.5
4.125-4.128	12.51975-12.52025	123-138	1300-1427	3345.8-3358	15.35-16.2
4.17725-4.17775	12.57675-12.57725	149.9-150.05	1435-1626.5	3600-4400	17.7-21.4
4.20725-4.20775	13.36-13.41	156.52475-156.52525	1645.5-1646.5	4500-5150	22.01-23.12
6.215-6.218	16.42-16.423	156.7-156.9	1660-1710	5350-5460	23.6-24
6.26775-6.26825	16.69475-16.69525	162.0125-167.17	1718.8-1722.2	7250-7750	31.2-31.8
6.31175-6.31225	16.80425-16.80475	167.72-173.2	2200-2300	8025-8500	36.43-36.5
8.291-8.294	25.5-25.67	240-285	2310-2390	9000-9200	[2]Above 38.6
8.362-8.366	37.5-38.25	322-335.4	2483.5-2500	9300-9500	

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

[2] Above 38.6

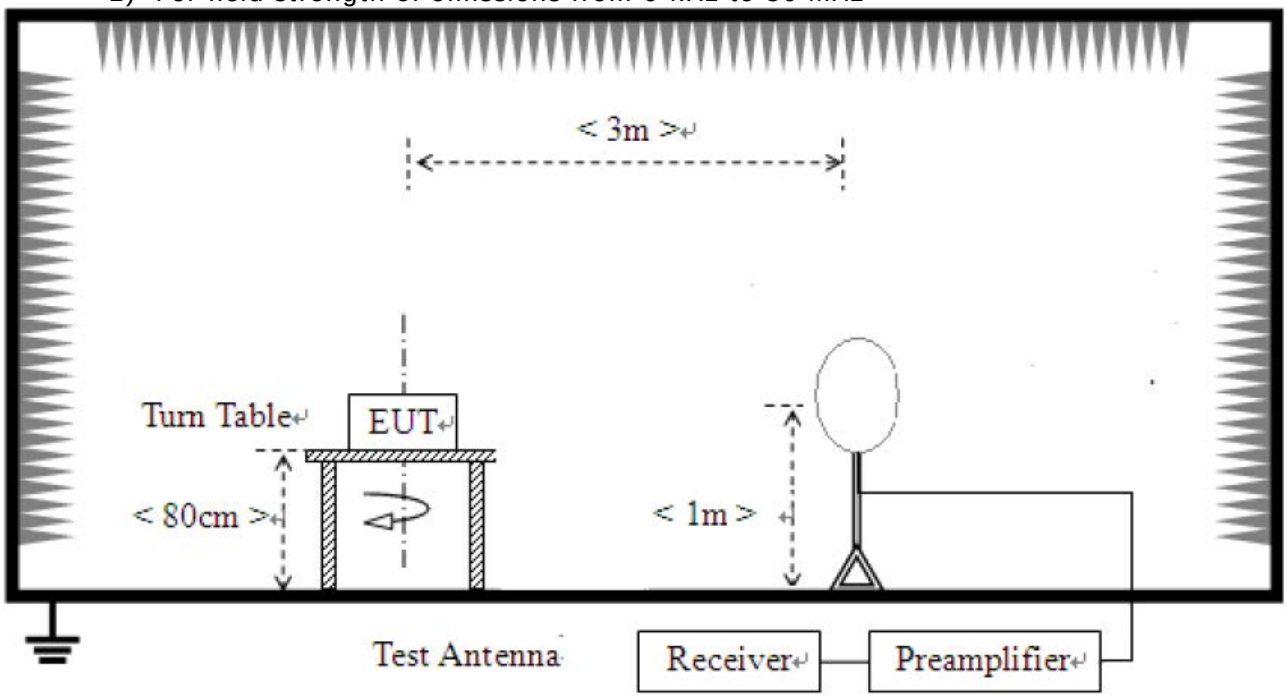
§ 15.205 (b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown is Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

Note :

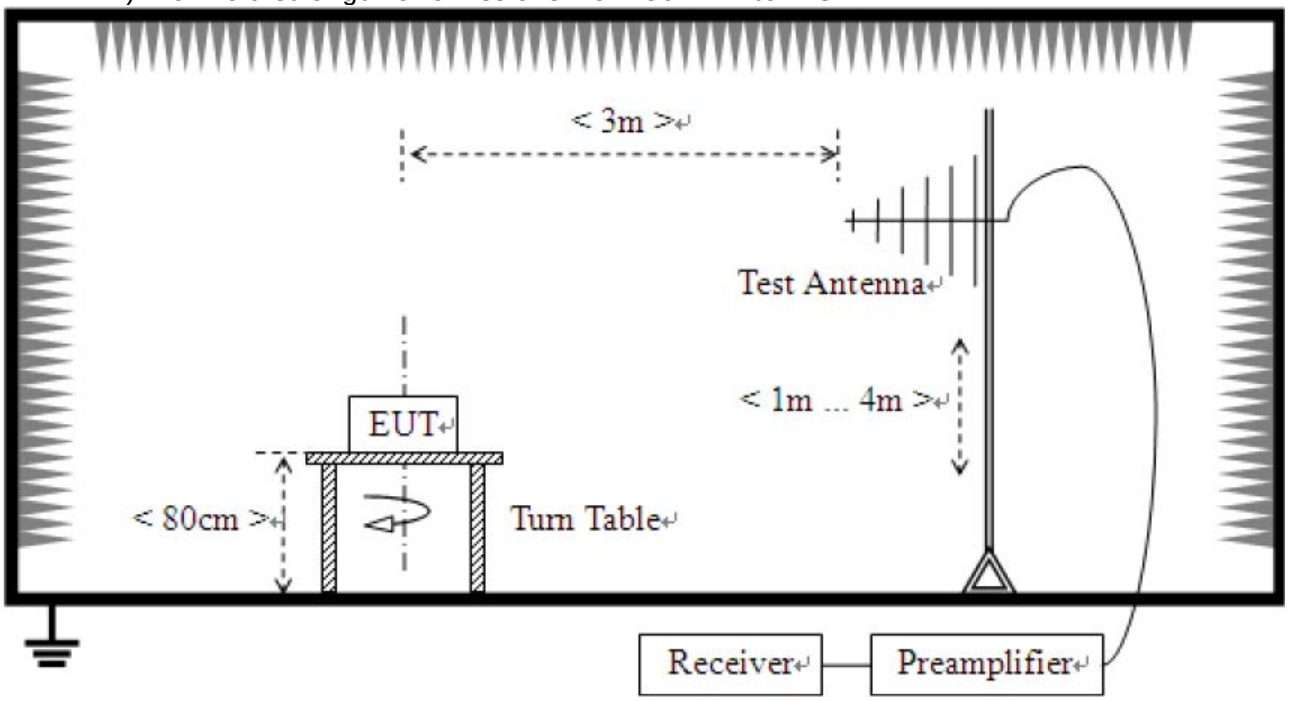
1) For above 1 GHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
2) For above 1 GHz, limit field strength of harmonics : 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

Test Setup:

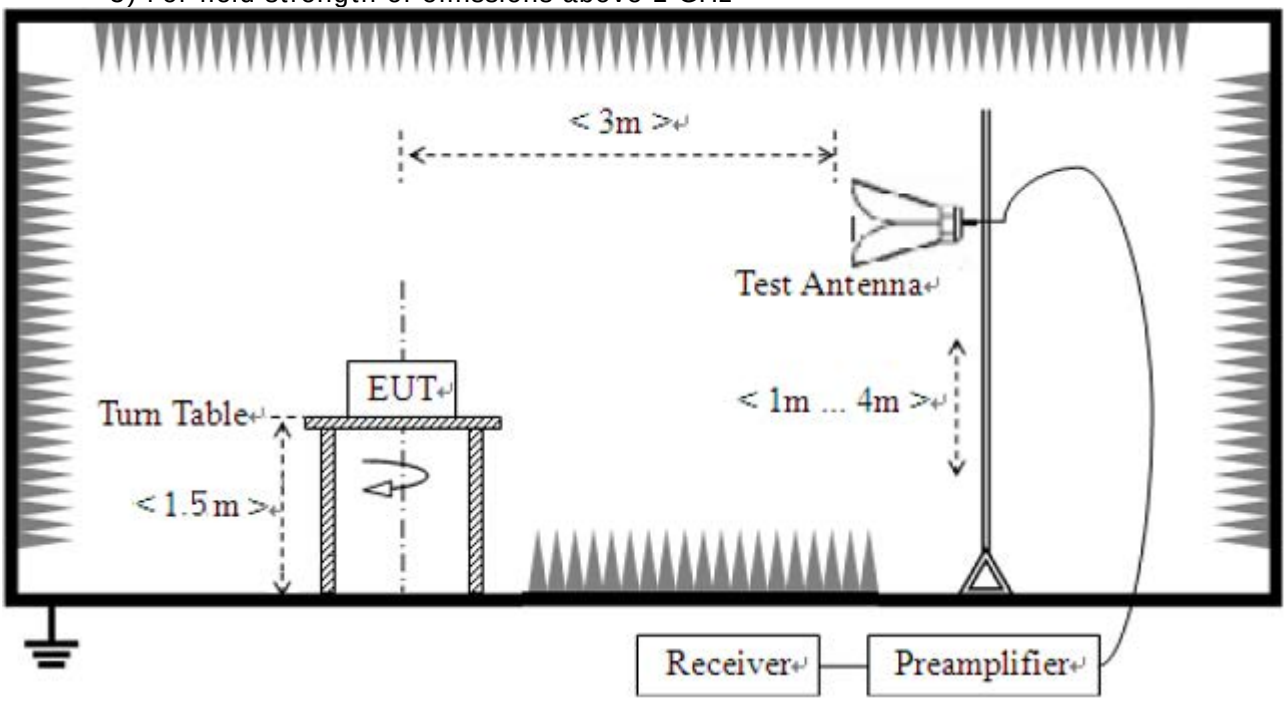
1) For field strength of emissions from 9 kHz to 30 MHz



2) For field strength of emissions from 30 MHz to 1 GHz



3) For field strength of emissions above 1 GHz



Test Mode

We have done all test mode.
The worst case antenna configuration and Test mode are determined to be as follows.

802.11a : ANT1, ANT2 (SISO)
802.11n : ANT1 + ANT2 (MIMO)
802.11ac : ANT1 + ANT2 (MIMO)

So the results are only attached worst cases.

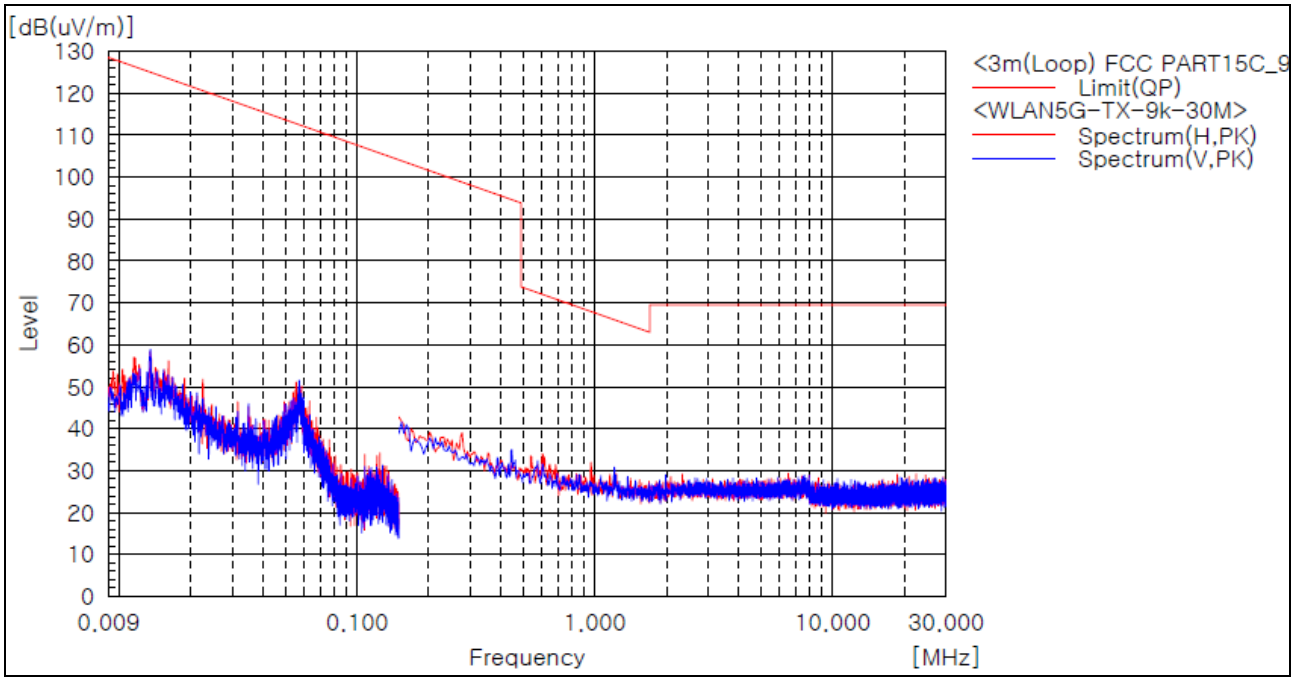
Test Results

1) 9 kHz to 30 MHz

Test mode : Transmitter (Worst Case)

The requirements are:
☒ Complies

Test Data



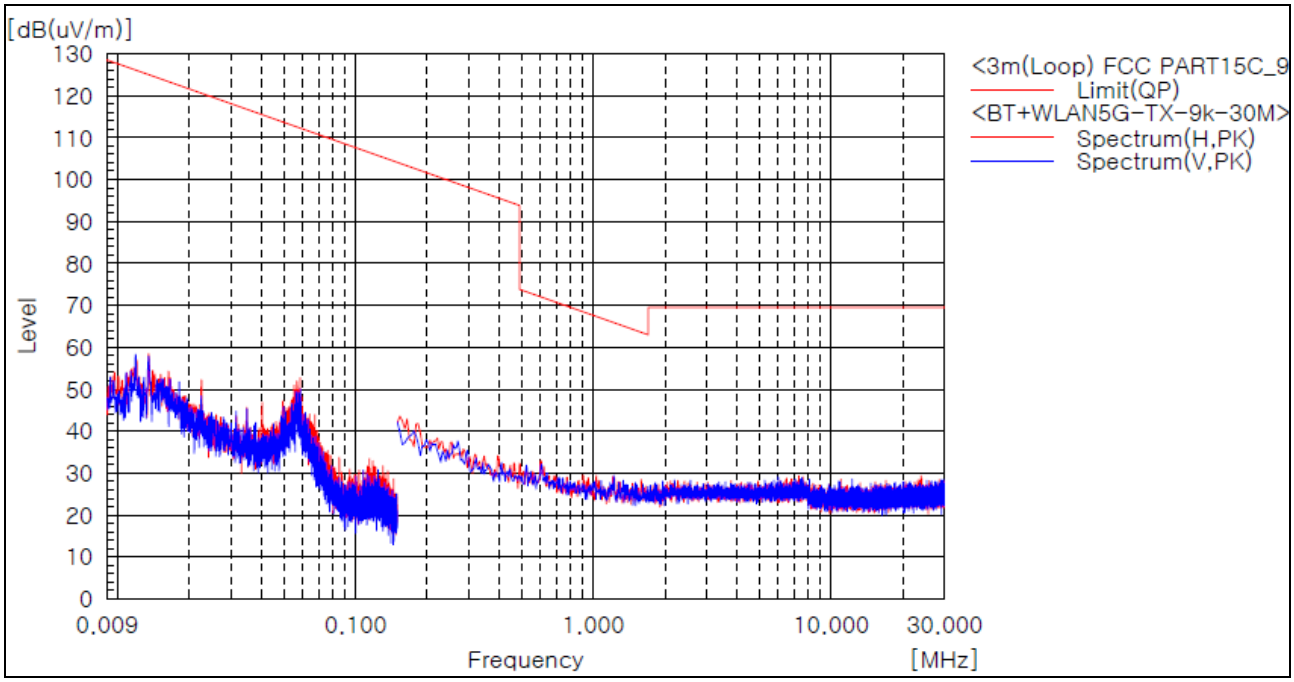
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.						

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

Test mode : Transmitter (simultaneous transmissions DSS+ NII)

The requirements are:
☒ Complies

Test Data



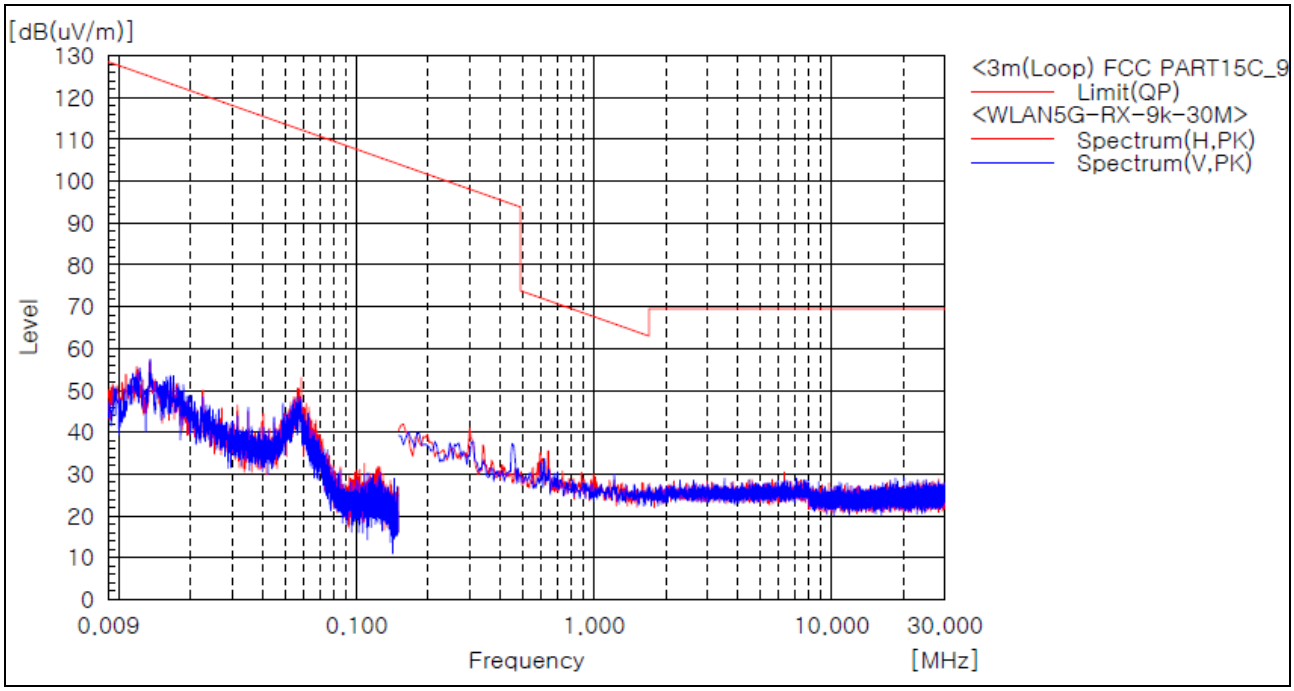
Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.						

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

Test mode : Receiver (Worst Case)

The requirements are:
☒ Complies

Test Data



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Level [dB(uV/m)]	Limit [dB(uV/m)]	Margin [dB]
The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.						

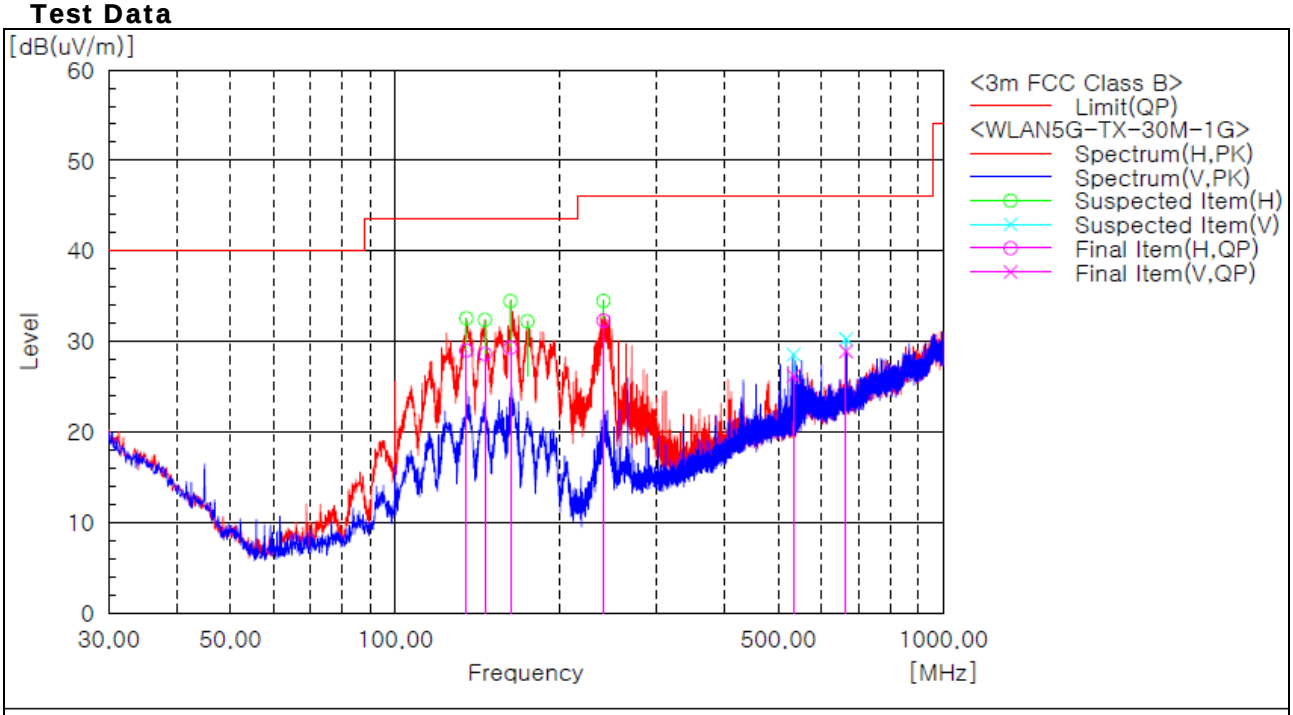
Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain
4. This data is the Peak(PK) value.

2) 30 MHz to 1 GHz

Test mode : Transmitter (Worst Case)

The requirements are:
☒ Complies

Test Data



Final Result

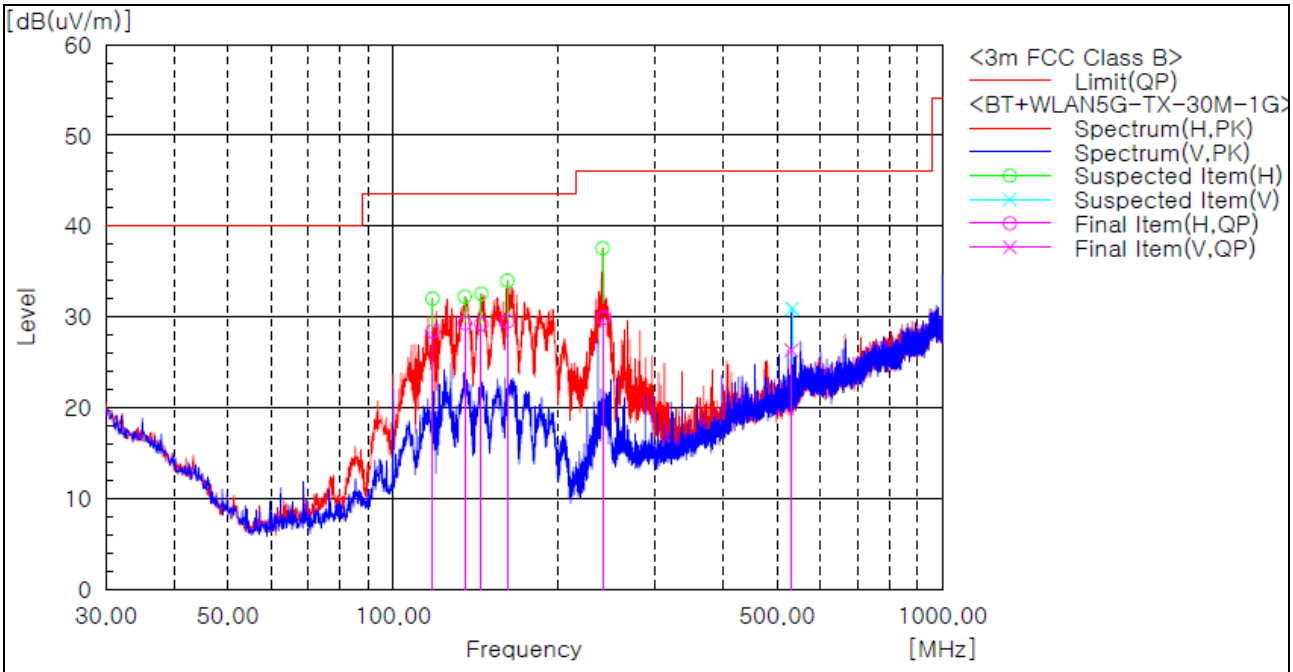
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	134.881	H	40.6	-11.6	29.0	43.5	14.5	209.0	8.0
2	145.794	H	40.0	-11.4	28.6	43.5	14.9	209.0	0.0
3	162.405	H	42.0	-12.7	29.3	43.5	14.2	209.0	0.0
4	240.005	H	43.0	-10.7	32.3	46.0	13.7	100.0	0.0
5	533.066	V	28.3	-2.1	26.2	46.0	19.8	101.0	16.0
6	664.623	V	27.6	1.3	28.9	46.0	17.1	194.0	137.0

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain

Test mode : Transmitter (simultaneous transmissions DSS + NII)

The requirements are:
☒ Complies

Test Data



Final Result

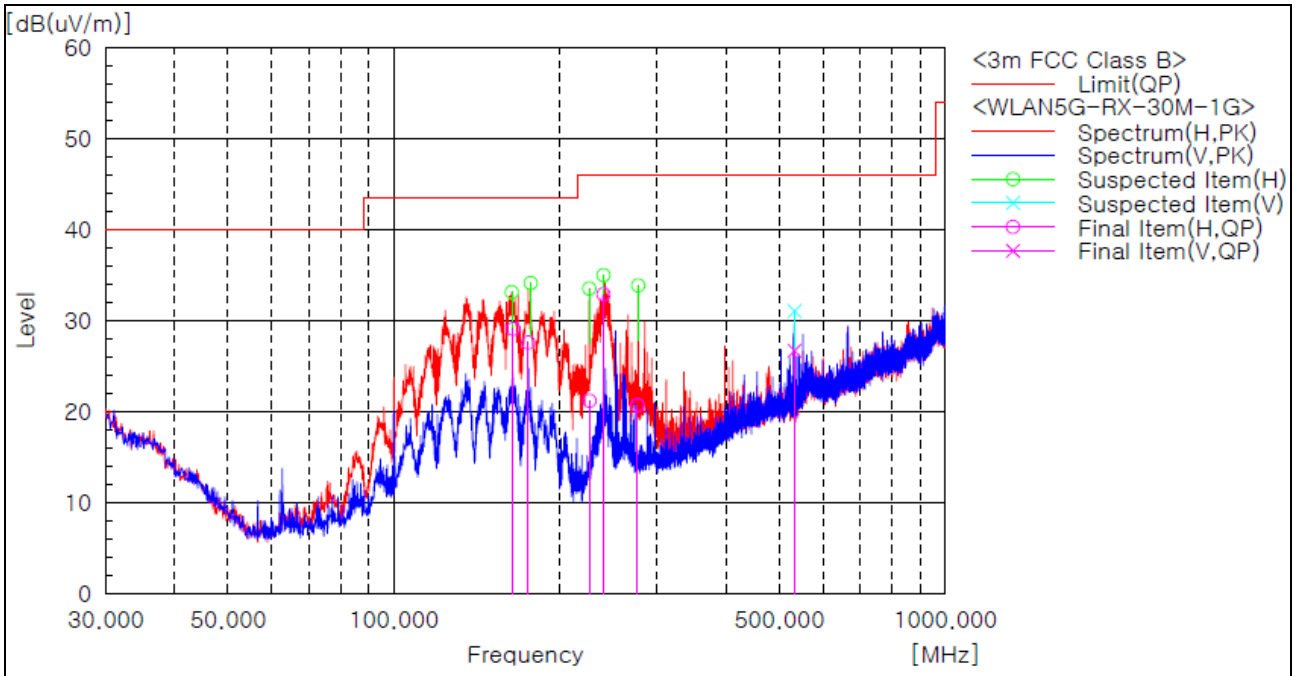
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	118.028	H	40.6	-12.2	28.4	43.5	15.1	206.0	6.0
2	135.124	H	40.9	-11.6	29.3	43.5	14.2	206.0	8.0
3	144.824	H	40.5	-11.3	29.2	43.5	14.3	206.0	6.0
4	161.435	H	42.1	-12.6	29.5	43.5	14.0	206.0	8.0
5	241.833	H	40.2	-10.3	29.9	46.0	16.1	101.0	21.0
6	531.051	V	28.5	-2.2	26.3	46.0	19.7	100.0	209.0

Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain

Test mode : Receiver (Worst Case)

The requirements are:
☒ Complies

Test Data



Final Result

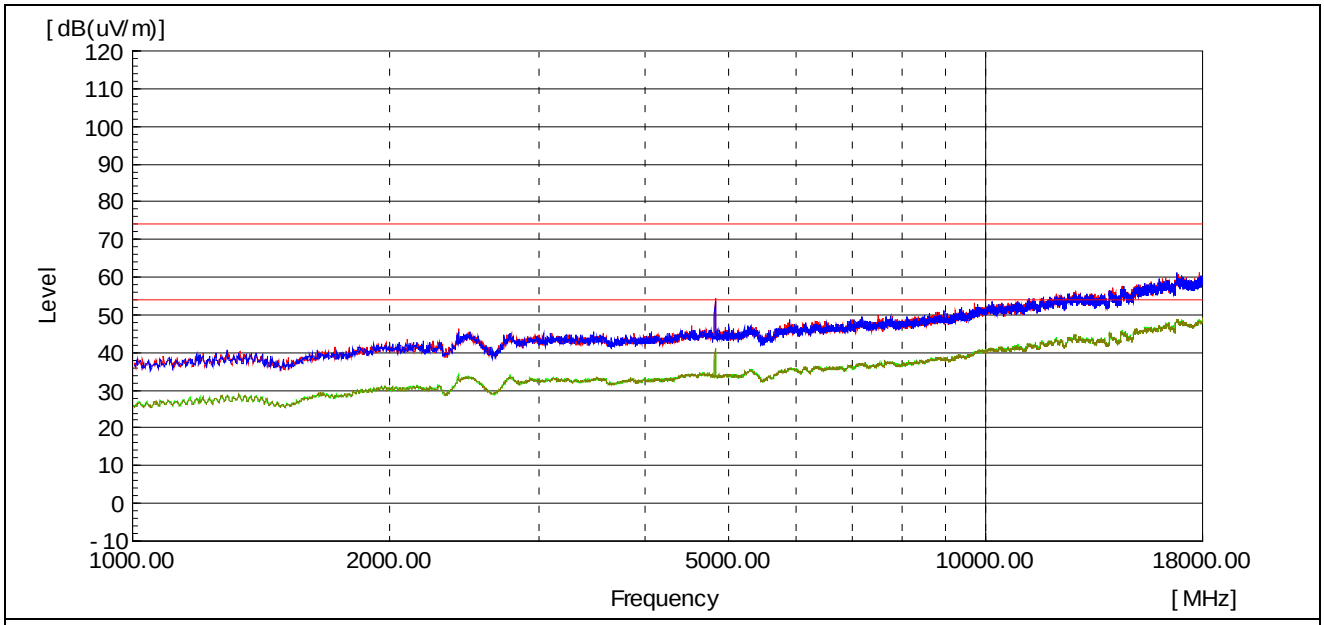
No.	Frequency [MHz]	(P)	Reading QP [dB(uV)]	c.f [dB(1/m)]	Result QP [dB(uV/m)]	Limit QP [dB(uV/m)]	Margin QP [dB]	Height [cm]	Angle [deg]
1	164.588	H	41.9	-12.8	29.1	43.5	14.4	209.0	334.0
2	175.293	H	41.1	-13.5	27.6	43.5	15.9	100.0	7.0
3	226.474	H	33.5	-12.3	21.2	46.0	24.8	100.0	64.0
4	240.018	H	43.6	-10.7	32.9	46.0	13.1	100.0	5.0
5	276.501	H	29.8	-9.1	20.7	46.0	25.3	100.0	17.0
6	533.188	V	28.8	-2.1	26.7	46.0	19.3	101.0	197.0

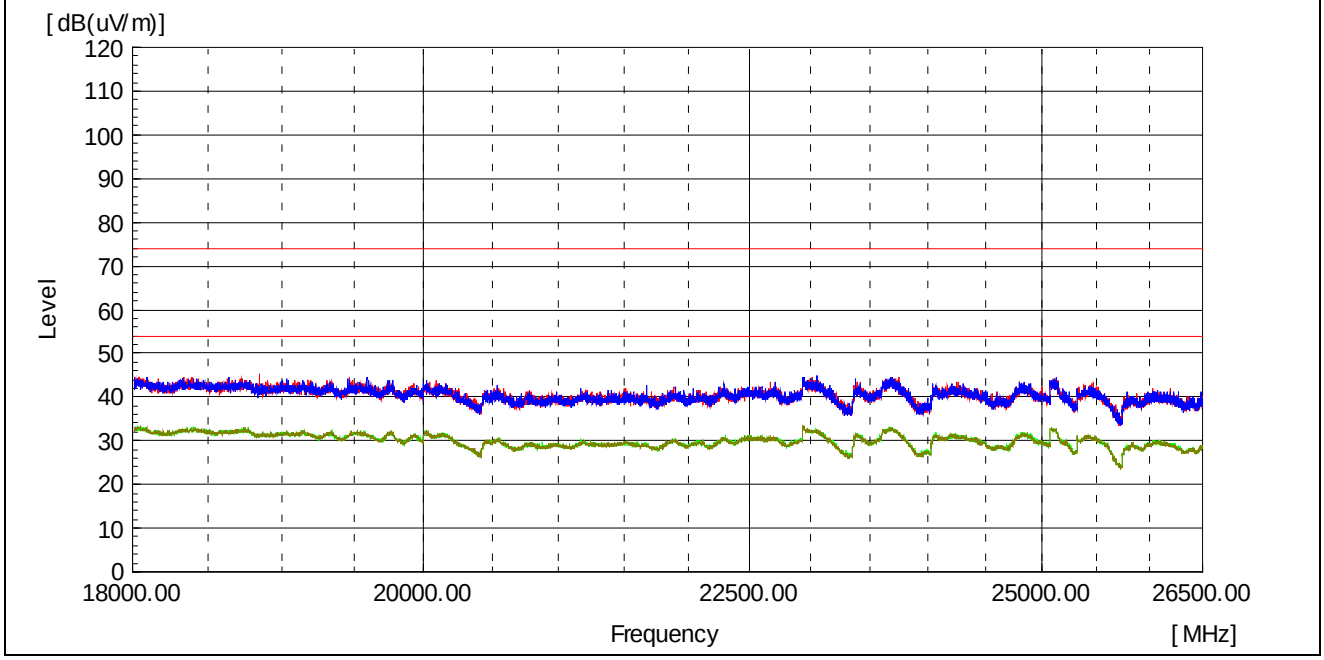
Remark :
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp Gain

3) above 1 GHz

The requirements are:
☒ Complies

Test Data





Test mode : Transmitter, 802.11a-ANT1

The requirements are:
☒ Complies

Test Data

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 356.67	H	52.7	-----	6.6	-----	59.3	-----	74.0	-----	14.7	-----
10 361.31	H	-----	35.8	6.6	0.2	-----	42.6	-----	54.0	-----	11.4
10 361.79	V	58.9	-----	6.6	-----	65.5	-----	74.0	-----	8.5	-----
10 360.97	V	-----	44.4	6.6	0.2	-----	51.2	-----	54.0	-----	2.8

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 399.90	H	51.3	-----	7.2	-----	58.5	-----	74.0	-----	15.5	-----
10 401.89	H	-----	35.6	7.2	0.2	-----	43.0	-----	54.0	-----	11.0
10 401.76	V	56.9	-----	7.2	-----	64.1	-----	74.0	-----	9.9	-----
10 402.83	V	-----	42.3	7.2	0.2	-----	49.7	-----	54.0	-----	4.3

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 475.97	H	50.3	-----	7.2	-----	57.5	-----	74.0	-----	16.5	-----
10 481.05	H	-----	35.6	7.4	0.2	-----	43.2	-----	54.0	-----	10.8
10 481.44	V	56.0	-----	7.4	-----	63.4	-----	74.0	-----	10.6	-----
10 482.20	V	-----	41.8	7.4	0.2	-----	49.4	-----	54.0	-----	4.6

Ch.52(5 260 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 516.29	H	51.8	-----	7.5	-----	59.3	-----	74.0	-----	14.7	-----
10 521.97	H	-----	36.4	7.4	0.2	-----	44.0	-----	54.0	-----	10.0
10 516.39	V	57.8	-----	7.5	-----	65.3	-----	74.0	-----	8.7	-----
10 517.95	V	-----	42.1	7.5	0.2	-----	49.8	-----	54.0	-----	4.2

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 600.65	H	50.6	-----	7.3	-----	57.9	-----	74.0	-----	16.1	-----
10 599.64	H	-----	35.9	7.3	0.2	-----	43.4	-----	54.0	-----	10.6
10 596.46	V	55.0	-----	7.3	-----	62.3	-----	74.0	-----	11.7	-----
10 599.99	V	-----	41.3	7.3	0.2	-----	48.8	-----	54.0	-----	5.2

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 641.55	H	51.5	-----	7.4	-----	58.9	-----	74.0	-----	15.1	-----
10 637.90	H	-----	35.9	7.4	0.2	-----	43.5	-----	54.0	-----	10.5
10 640.91	V	54.2	-----	7.4	-----	61.6	-----	74.0	-----	12.4	-----
10 642.42	V	-----	41.7	7.4	0.2	-----	49.3	-----	54.0	-----	4.7

Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 003.24	H	46.7	-----	7.8	-----	54.5	-----	74.0	-----	19.5	-----
11 002.09	H	-----	34.3	7.8	0.2	-----	42.3	-----	54.0	-----	11.7
10 996.46	V	48.7	-----	7.8	-----	56.5	-----	74.0	-----	17.5	-----
11 002.64	V	-----	36.1	7.8	0.2	-----	44.1	-----	54.0	-----	9.9

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 169.56	H	46.4	-----	8.1	-----	54.5	-----	74.0	-----	19.5	-----
11 202.14	H	-----	34.3	8.2	0.2	-----	42.7	-----	54.0	-----	11.3
11 199.45	V	47.8	-----	8.2	-----	56.0	-----	74.0	-----	18.0	-----
11 201.30	V	-----	35.2	8.2	0.2	-----	43.6	-----	54.0	-----	10.4

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 401.85	H	46.8	-----	8.6	-----	55.4	-----	74.0	-----	18.6	-----
11 398.74	H	-----	34.3	8.6	0.2	-----	43.1	-----	54.0	-----	10.9
11 405.91	V	49.5	-----	8.6	-----	58.1	-----	74.0	-----	15.9	-----
11 401.99	V	-----	36.3	8.6	0.2	-----	45.1	-----	54.0	-----	8.9

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 436.20	H	46.8	-----	8.6	-----	55.4	-----	74.0	-----	18.6	-----
11 437.96	H	-----	34.9	8.7	0.2	-----	43.8	-----	54.0	-----	10.2
11 445.24	V	50.0	-----	8.7	-----	58.7	-----	74.0	-----	15.3	-----
11 441.58	V	-----	36.6	8.7	0.2	-----	45.5	-----	54.0	-----	8.5

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 485.13	H	47.1	-----	8.4	-----	55.5	-----	74.0	-----	18.5	-----
11 487.72	H	-----	35.1	8.3	0.2	-----	43.6	-----	54.0	-----	10.4
11 486.31	V	51.8	-----	8.3	-----	60.1	-----	74.0	-----	13.9	-----
11 491.79	V	-----	36.6	8.3	0.2	-----	45.1	-----	54.0	-----	8.9

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 532.61	H	46.7	-----	8.5	-----	55.2	-----	74.0	-----	18.8	-----
11 564.05	H	-----	34.6	8.6	0.2	-----	43.4	-----	54.0	-----	10.6
11 569.80	V	51.0	-----	8.6	-----	59.6	-----	74.0	-----	14.4	-----
11 567.90	V	-----	37.7	8.6	0.2	-----	46.5	-----	54.0	-----	7.5

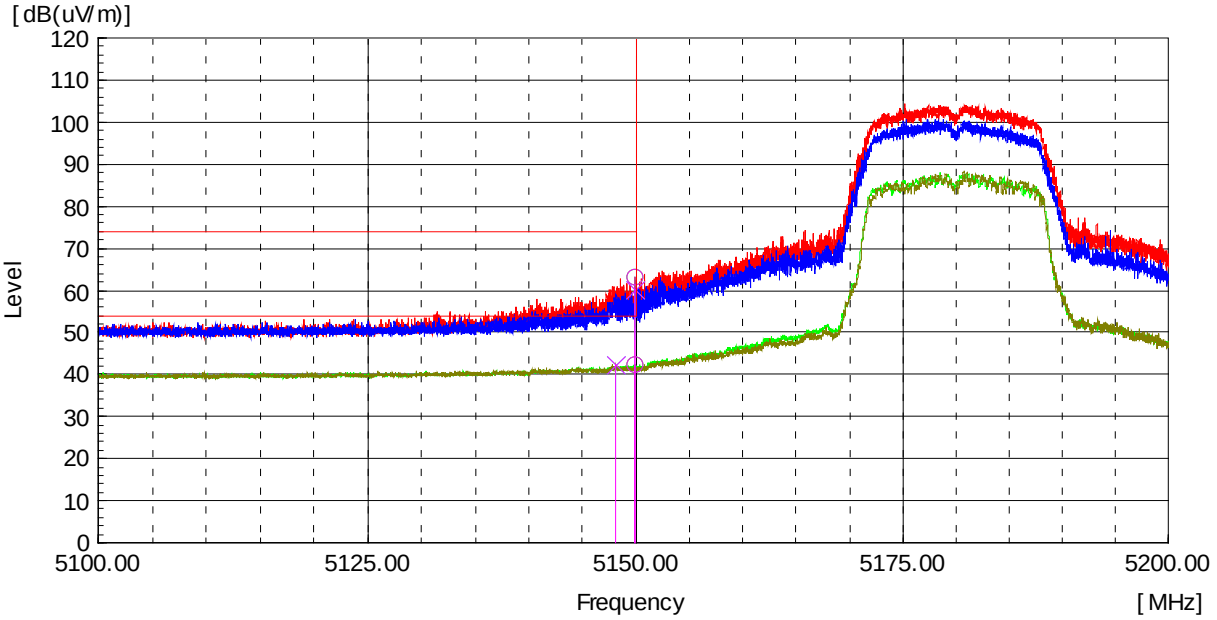
Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 648.72	H	48.1	-----	8.3	-----	56.4	-----	74.0	-----	17.6	-----
11 647.74	H	-----	34.8	8.3	0.2	-----	43.3	-----	54.0	-----	10.7
11 650.99	V	52.1	-----	8.3	-----	60.4	-----	74.0	-----	13.6	-----
11 651.69	V	-----	38.2	8.3	0.2	-----	46.7	-----	54.0	-----	7.3

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

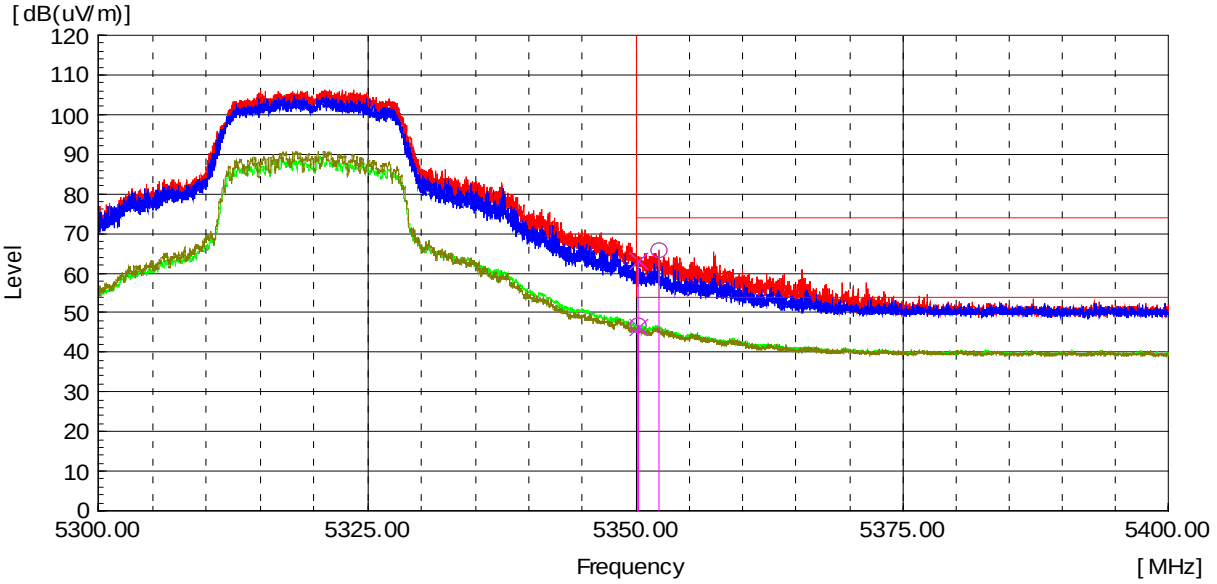
Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 149.86	H	61.5	-----	1.6	-----	63.1	-----	74.0	-----	10.9	-----
5 149.93	H	-----	40.6	1.6	0.2	-----	42.4	-----	54.0	-----	11.6
5 149.91	V	58.5	-----	1.6	-----	60.1	-----	74.0	-----	13.9	-----
5 148.18	V	-----	40.9	1.6	0.2	-----	42.7	-----	54.0	-----	11.3

Radiated Restricted Band Edge Plot

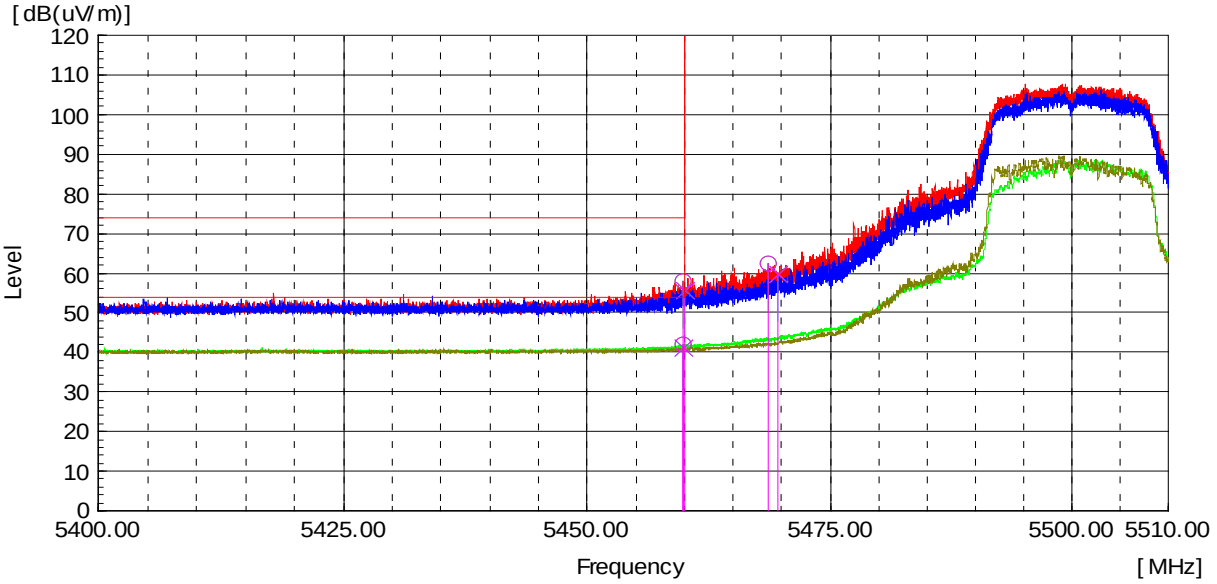
Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 352.18	H	64.2	-----	1.7	-----	65.9	-----	74.0	-----	8.1	-----
5 350.20	H	-----	45.1	1.7	0.2	-----	47.0	-----	54.0	-----	7.0
5 350.16	V	61.4	-----	1.7	-----	63.1	-----	74.0	-----	10.9	-----
5 350.23	V	-----	44.6	1.7	0.2	-----	46.5	-----	54.0	-----	7.5

Radiated Restricted Band Edge Plot

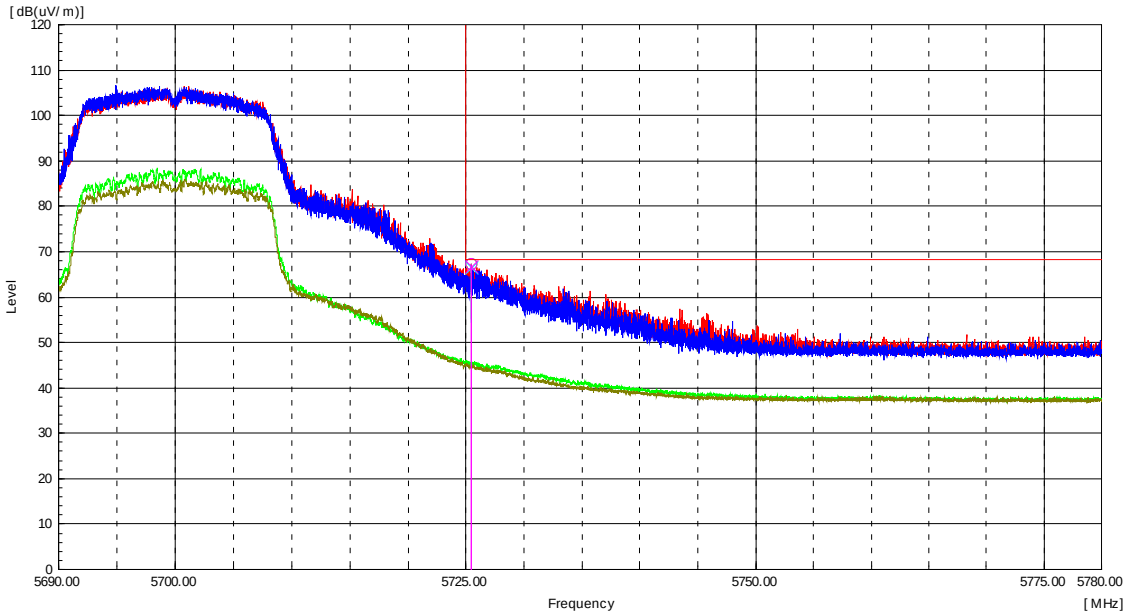
Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 459.81	H	56.2	-----	1.7	-----	57.9	-----	74.0	-----	16.1	-----
5 459.90	H	-----	40.3	1.7	0.2	-----	42.2	-----	54.0	-----	11.8
5 459.96	V	54.0	-----	1.7	-----	55.7	-----	74.0	-----	18.3	-----
5 459.91	V	-----	39.5	1.7	0.2	-----	41.4	-----	54.0	-----	12.6
5 468.68	H	60.6	-----	1.7	-----	62.3	-----	68.2	-----	5.9	-----
5 469.66	V	58.0	-----	1.7	-----	59.7	-----	68.2	-----	8.5	-----

Radiated Restricted Band Edge Plot

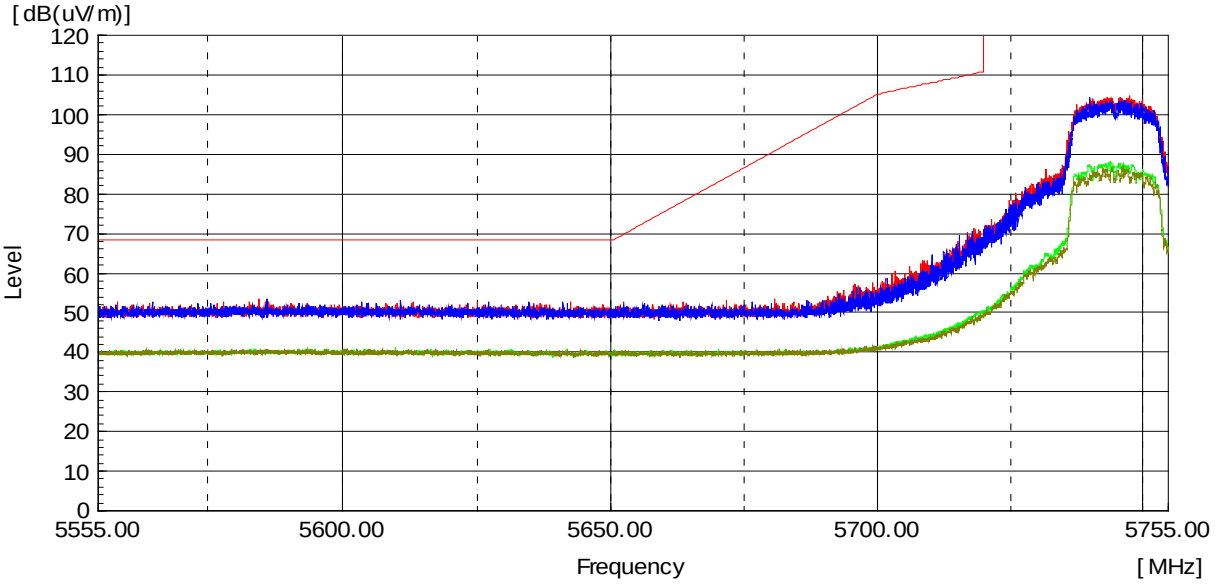
Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 725.48	H	65.2	-----	2.0	-----	67.2	-----	74.0	-----	1.0	-----
5 725.44	V	64.7	-----	2.0	-----	66.7	-----	74.0	-----	1.5	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a-ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149

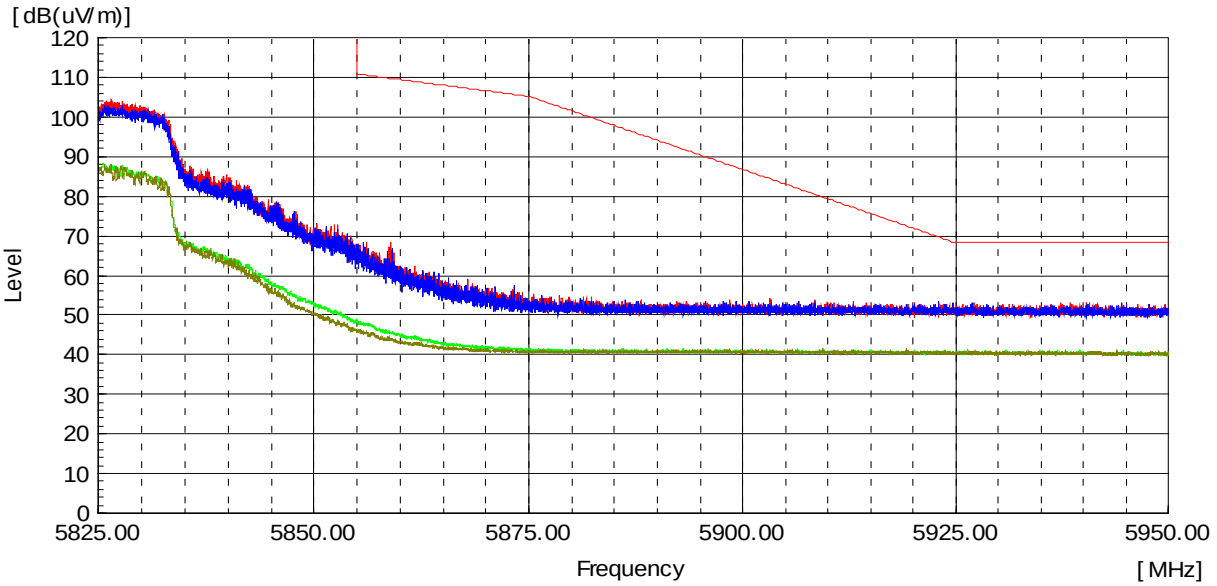


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a –ANT1
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11a-ANT2

The requirements are:
☒ Complies

Test Data

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 356.50	H	51.0	-----	6.6	-----	57.6	-----	74.0	-----	16.4	-----
10 358.17	H	-----	34.9	6.6	0.2	-----	41.7	-----	54.0	-----	12.3
10 361.40	V	52.5	-----	6.6	-----	59.1	-----	74.0	-----	14.9	-----
10 360.42	V	-----	38.3	6.6	0.2	-----	45.1	-----	54.0	-----	8.9

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 401.25	H	50.8	-----	7.2	-----	58.0	-----	74.0	-----	16.0	-----
10 401.54	H	-----	34.8	7.2	0.2	-----	42.2	-----	54.0	-----	11.8
10 401.54	V	53.4	-----	7.2	-----	60.6	-----	74.0	-----	13.4	-----
10 402.10	V	-----	36.8	7.2	0.2	-----	44.2	-----	54.0	-----	9.8

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 480.85	H	50.1	-----	7.4	-----	57.5	-----	74.0	-----	16.5	-----
10 481.75	H	-----	34.8	7.4	0.2	-----	42.4	-----	54.0	-----	11.6
10 475.78	V	53.3	-----	7.2	-----	60.5	-----	74.0	-----	13.5	-----
10 481.70	V	-----	37.7	7.4	0.2	-----	45.3	-----	54.0	-----	8.7

Ch.52(5 260 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 518.20	H	50.0	-----	7.5	-----	57.5	-----	74.0	-----	16.5	-----
10 518.40	H	-----	35.2	7.5	0.2	-----	42.9	-----	54.0	-----	11.1
10 516.11	V	54.1	-----	7.5	-----	61.6	-----	74.0	-----	12.4	-----
10 517.50	V	-----	38.2	7.5	0.2	-----	45.9	-----	54.0	-----	8.1

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 600.70	H	51.4	-----	7.3	-----	58.7	-----	74.0	-----	15.3	-----
10 601.59	H	-----	37.1	7.3	0.2	-----	44.6	-----	54.0	-----	9.4
10 596.10	V	53.7	-----	7.3	-----	61.0	-----	74.0	-----	13.0	-----
10 602.26	V	-----	38.5	7.3	0.2	-----	46.0	-----	54.0	-----	8.0

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 641.92	H	50.9	-----	7.4	-----	58.3	-----	74.0	-----	15.7	-----
10 639.69	H	-----	37.3	7.4	0.2	-----	44.9	-----	54.0	-----	9.1
10 636.17	V	54.4	-----	7.4	-----	61.8	-----	74.0	-----	12.2	-----
10 642.19	V	-----	38.7	7.4	0.2	-----	46.3	-----	54.0	-----	7.7

Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 996.56	H	49.5	-----	7.8	-----	57.3	-----	74.0	-----	16.7	-----
11 002.10	H	-----	37.0	7.8	0.2	-----	45.0	-----	54.0	-----	9.0
11 001.83	V	52.1	-----	7.8	-----	59.9	-----	74.0	-----	14.1	-----
10 998.06	V	-----	36.6	7.8	0.2	-----	44.6	-----	54.0	-----	9.4

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 203.31	H	46.9	-----	8.2	-----	55.1	-----	74.0	-----	18.9	-----
11 195.41	H	-----	34.7	8.2	0.2	-----	43.1	-----	54.0	-----	10.9
11 196.47	V	48.0	-----	8.2	-----	56.2	-----	74.0	-----	17.8	-----
11 202.90	V	-----	34.7	8.2	0.2	-----	43.1	-----	54.0	-----	10.9

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 406.44	H	46.2	-----	8.6	-----	54.8	-----	74.0	-----	19.2	-----
11 399.29	H	-----	34.7	8.6	0.2	-----	43.5	-----	54.0	-----	10.5
11 401.05	V	46.8	-----	8.6	-----	55.4	-----	74.0	-----	18.6	-----
11 405.21	V	-----	34.6	8.6	0.2	-----	43.4	-----	54.0	-----	10.6

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 489.11	H	46.4	-----	8.3	-----	54.7	-----	74.0	-----	19.3	-----
11 445.16	H	-----	34.1	8.7	0.2	-----	43.0	-----	54.0	-----	11.0
11 438.25	V	46.9	-----	8.7	-----	55.6	-----	74.0	-----	18.4	-----
11 442.99	V	-----	34.1	8.7	0.2	-----	43.0	-----	54.0	-----	11.0

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11487.40	H	47.0	-----	8.3	-----	55.3	-----	74.0	-----	18.7	-----
11484.34	H	-----	34.6	8.4	0.2	-----	43.2	-----	54.0	-----	10.8
11494.92	V	47.9	-----	8.3	-----	56.2	-----	74.0	-----	17.8	-----
11496.64	V	-----	34.9	8.3	0.2	-----	43.4	-----	54.0	-----	10.6

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 571.17	H	47.4	-----	8.5	-----	55.9	-----	74.0	-----	18.1	-----
11 536.26	H	-----	34.2	8.6	0.2	-----	43.0	-----	54.0	-----	11.0
11 566.29	V	47.6	-----	8.6	-----	56.2	-----	74.0	-----	17.8	-----
11 570.76	V	-----	34.5	8.6	0.2	-----	43.3	-----	54.0	-----	10.7

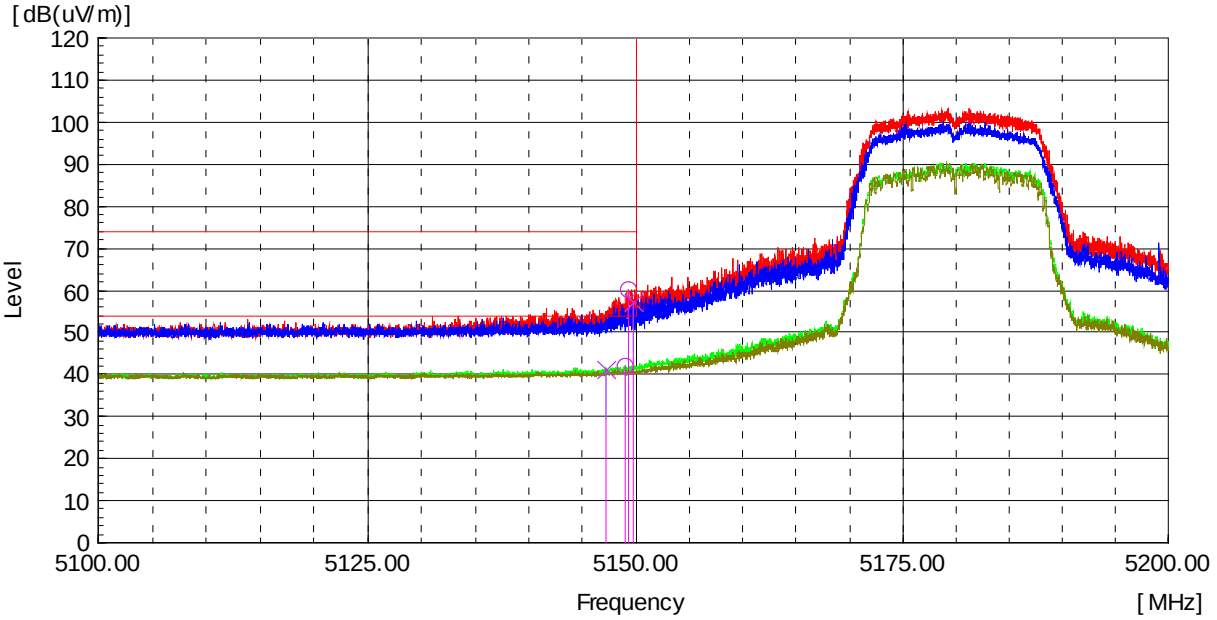
Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 684.91	H	46.8	-----	8.3	-----	55.1	-----	74.0	-----	18.9	-----
11 647.55	H	-----	35.0	8.3	0.2	-----	43.5	-----	54.0	-----	10.5
11 647.60	V	47.9	-----	8.3	-----	56.2	-----	74.0	-----	17.8	-----
11 644.33	V	-----	35.0	8.3	0.2	-----	43.5	-----	54.0	-----	10.5

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

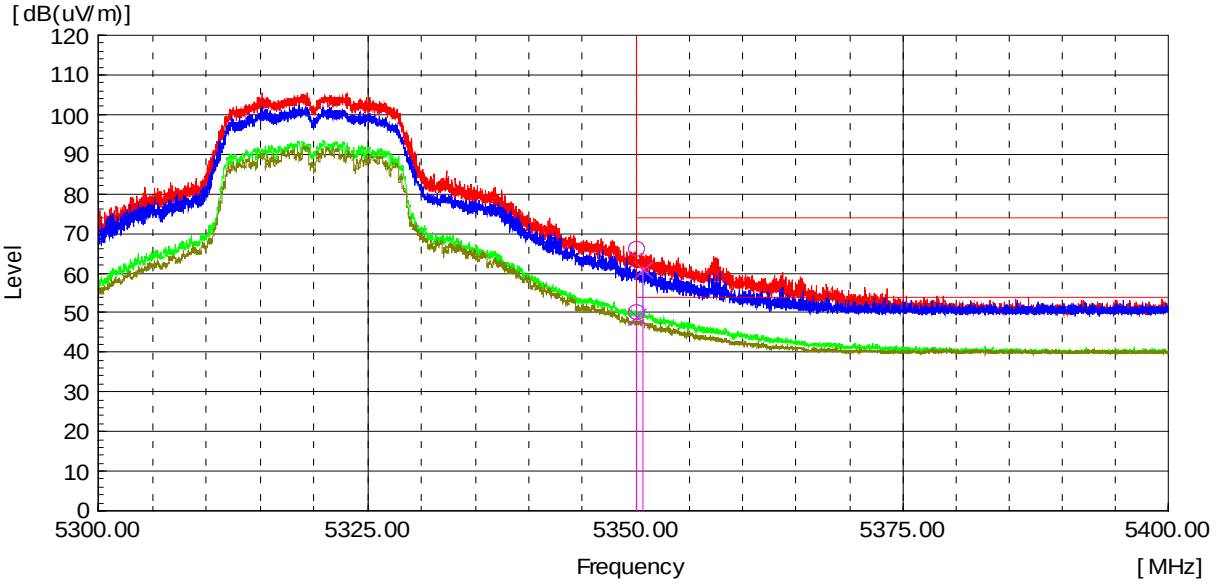
Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 149.28	H	58.7	-----	1.6	-----	60.3	-----	74.0	-----	13.7	-----
5 148.94	H	-----	40.4	1.6	0.2	-----	42.2	-----	54.0	-----	11.8
5 149.81	V	55.6	-----	1.6	-----	57.2	-----	74.0	-----	16.8	-----
5 147.26	V	-----	39.6	1.6	0.2	-----	41.4	-----	54.0	-----	12.6

Radiated Restricted Band Edge Plot

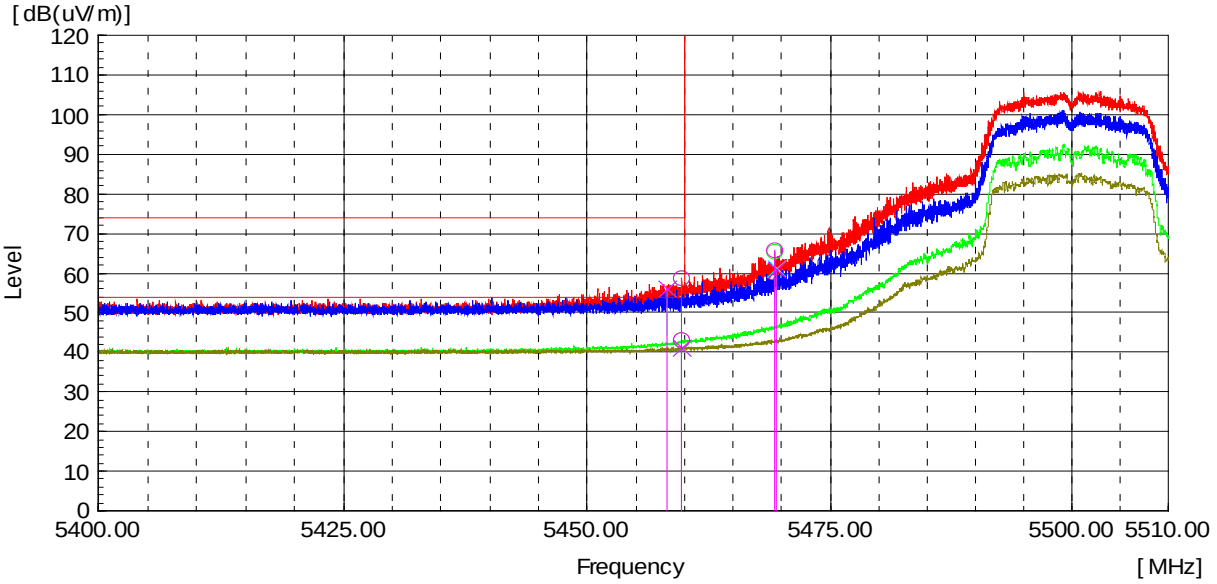
Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 350.06	H	64.3	-----	1.7	-----	66.0	-----	74.0	-----	8.0	-----
5 350.00	H	-----	48.5	1.7	0.2	-----	50.4	-----	54.0	-----	3.6
5 350.68	V	59.3	-----	1.7	-----	61.0	-----	74.0	-----	13.0	-----
5 350.11	V	-----	47.2	1.7	0.2	-----	49.1	-----	54.0	-----	4.9

Radiated Restricted Band Edge Plot

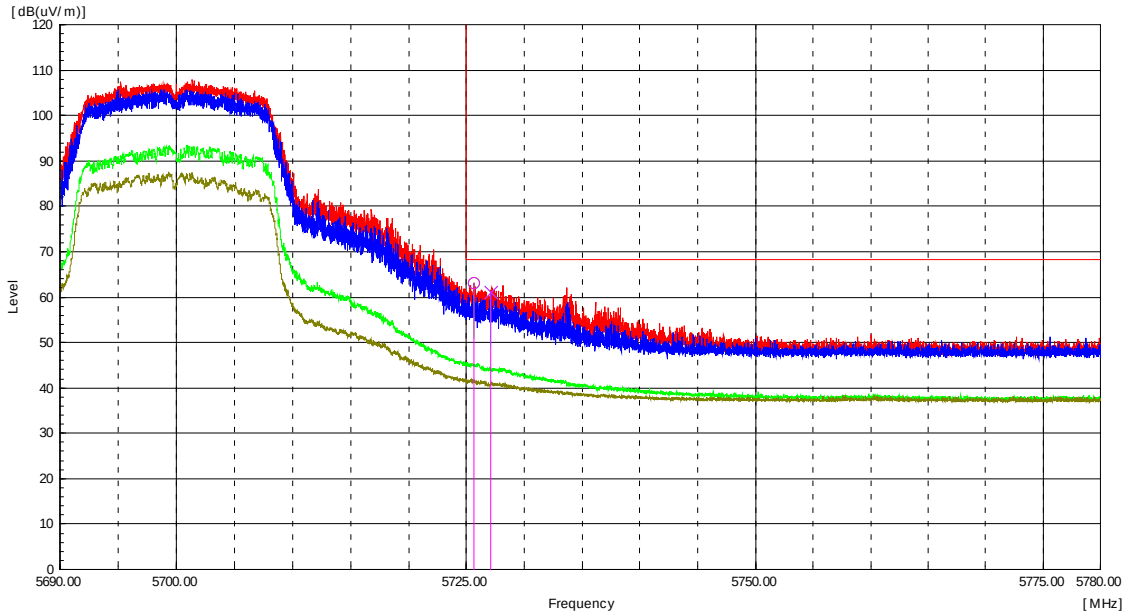
Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 459.76	H	56.9	-----	1.7	-----	58.6	-----	74.0	-----	15.4	-----
5 459.69	H	-----	41.4	1.7	0.2	-----	43.3	-----	54.0	-----	10.7
5 458.12	V	54.3	-----	1.7	-----	56.0	-----	74.0	-----	18.0	-----
5 459.65	V	-----	39.5	1.7	0.2	-----	41.4	-----	54.0	-----	12.6
5 469.31	H	63.9	-----	1.7	-----	65.6	-----	68.2	-----	2.6	-----
5 469.52	V	59.4	-----	1.7	-----	61.1	-----	68.2	-----	7.1	-----

Radiated Restricted Band Edge Plot

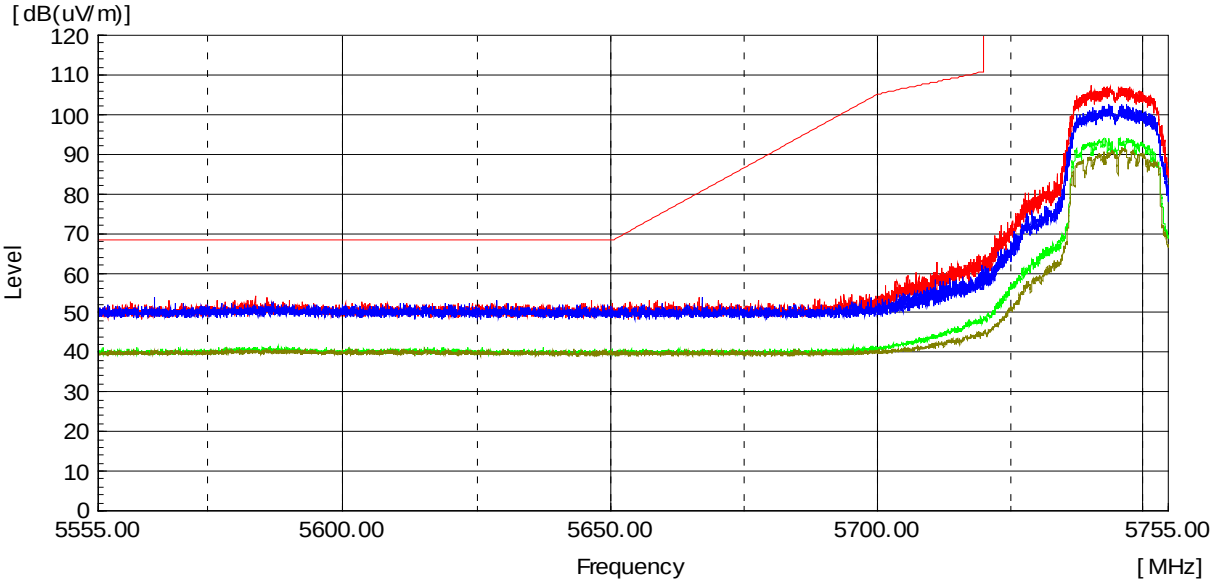
Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 725.63	H	61.2	-----	2.0	-----	63.2	-----	68.2	-----	5.0	-----
5 727.11	V	59.2	-----	2.0	-----	61.2	-----	68.2	-----	7.0	-----

Radiated Restricted Band Edge Plot

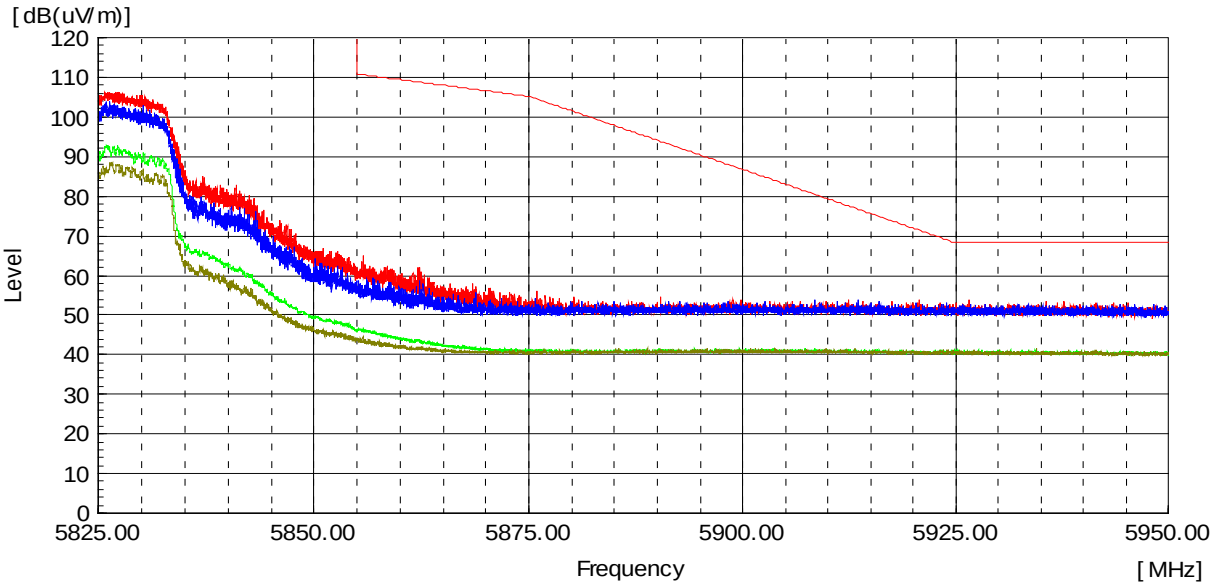
Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a-ANT2
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11n_HT20

The requirements are:
☒ Complies

Test Data

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 357.33	H	51.7	-----	6.6	-----	58.3	-----	74.0	-----	15.7	-----
10 359.58	H	-----	35.4	6.6	0.2	-----	42.2	-----	54.0	-----	11.8
10 359.96	V	55.6	-----	6.6	-----	62.2	-----	74.0	-----	11.8	-----
10 360.06	V	-----	41.7	6.6	0.2	-----	48.5	-----	54.0	-----	5.5

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 397.04	H	51.6	-----	7.2	-----	58.8	-----	74.0	-----	15.2	-----
10 399.79	H	-----	35.0	7.2	0.2	-----	42.4	-----	54.0	-----	11.6
10 397.13	V	56.9	-----	7.2	-----	64.1	-----	74.0	-----	9.9	-----
10 399.63	V	-----	39.9	7.2	0.2	-----	47.3	-----	54.0	-----	6.7

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 479.25	H	48.9	-----	7.3	-----	56.2	-----	74.0	-----	17.8	-----
10 481.85	H	-----	34.8	7.4	0.2	-----	42.4	-----	54.0	-----	11.6
10 476.95	V	55.5	-----	7.3	-----	62.8	-----	74.0	-----	11.2	-----
10 481.90	V	-----	39.3	7.4	0.2	-----	46.9	-----	54.0	-----	7.1

Ch.52(5 260 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 515.30	H	52.6	-----	7.5	-----	60.1	-----	74.0	-----	13.9	-----
10 514.74	H	-----	37.1	7.5	0.2	-----	44.8	-----	54.0	-----	9.2
10 517.21	V	59.5	-----	7.5	-----	67.0	-----	74.0	-----	7.0	-----
10 514.47	V	-----	41.5	7.5	0.2	-----	49.2	-----	54.0	-----	4.8

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 600.34	H	53.1	-----	7.3	-----	60.4	-----	74.0	-----	13.6	-----
10 602.08	H	-----	37.9	7.3	0.2	-----	45.4	-----	54.0	-----	8.6
10 596.96	V	56.1	-----	7.3	-----	63.4	-----	74.0	-----	10.6	-----
10 599.33	V	-----	41.6	7.3	0.2	-----	49.1	-----	54.0	-----	4.9

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 637.01	H	54.1	-----	7.4	-----	61.5	-----	74.0	-----	12.5	-----
10 634.72	H	-----	37.7	7.4	0.2	-----	45.3	-----	54.0	-----	8.7
10 637.51	V	56.1	-----	7.4	-----	63.5	-----	74.0	-----	10.5	-----
10 637.30	V	-----	41.3	7.4	0.2	-----	48.9	-----	54.0	-----	5.1

Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 001.56	H	49.1	-----	7.8	-----	56.9	-----	74.0	-----	17.1	-----
10 999.20	H	-----	36.8	7.8	0.2	-----	44.8	-----	54.0	-----	9.2
10 997.25	V	52.2	-----	7.8	-----	60.0	-----	74.0	-----	14.0	-----
10 999.21	V	-----	37.4	7.8	0.2	-----	45.4	-----	54.0	-----	8.6

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 201.74	H	47.5	-----	8.2	-----	55.7	-----	74.0	-----	18.3	-----
11 201.63	H	-----	35.1	8.2	0.2	-----	43.5	-----	54.0	-----	10.5
11 198.78	V	50.0	-----	8.2	-----	58.2	-----	74.0	-----	15.8	-----
11 203.92	V	-----	35.7	8.2	0.2	-----	44.1	-----	54.0	-----	9.9

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 402.51	H	46.4	-----	8.6	-----	55.0	-----	74.0	-----	19.0	-----
11 399.01	H	-----	34.0	8.6	0.2	-----	42.8	-----	54.0	-----	11.2
11 399.22	V	48.6	-----	8.6	-----	57.2	-----	74.0	-----	16.8	-----
11 402.05	V	-----	36.0	8.6	0.2	-----	44.8	-----	54.0	-----	9.2

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 436.96	H	55.6	-----	8.7	-----	64.3	-----	74.0	-----	9.7	-----
11 439.17	H	-----	35.7	8.7	0.2	-----	44.6	-----	54.0	-----	9.4
11 441.00	V	51.6	-----	8.7	-----	60.3	-----	74.0	-----	13.7	-----
11 441.94	V	-----	37.3	8.7	0.2	-----	46.2	-----	54.0	-----	7.8

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 489.46	H	47.5	-----	8.3	-----	55.8	-----	74.0	-----	18.2	-----
11 489.66	H	-----	35.6	8.3	0.2	-----	44.1	-----	54.0	-----	9.9
11 491.84	V	52.5	-----	8.3	-----	60.8	-----	74.0	-----	13.2	-----
11 489.96	V	-----	37.3	8.3	0.2	-----	45.8	-----	54.0	-----	8.2

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 567.69	H	48.8	-----	8.6	-----	57.4	-----	74.0	-----	16.6	-----
11 564.74	H	-----	35.2	8.6	0.2	-----	44.0	-----	54.0	-----	10.0
11 567.01	V	51.8	-----	8.6	-----	60.4	-----	74.0	-----	13.6	-----
11 564.56	V	-----	38.6	8.6	0.2	-----	47.4	-----	54.0	-----	6.6

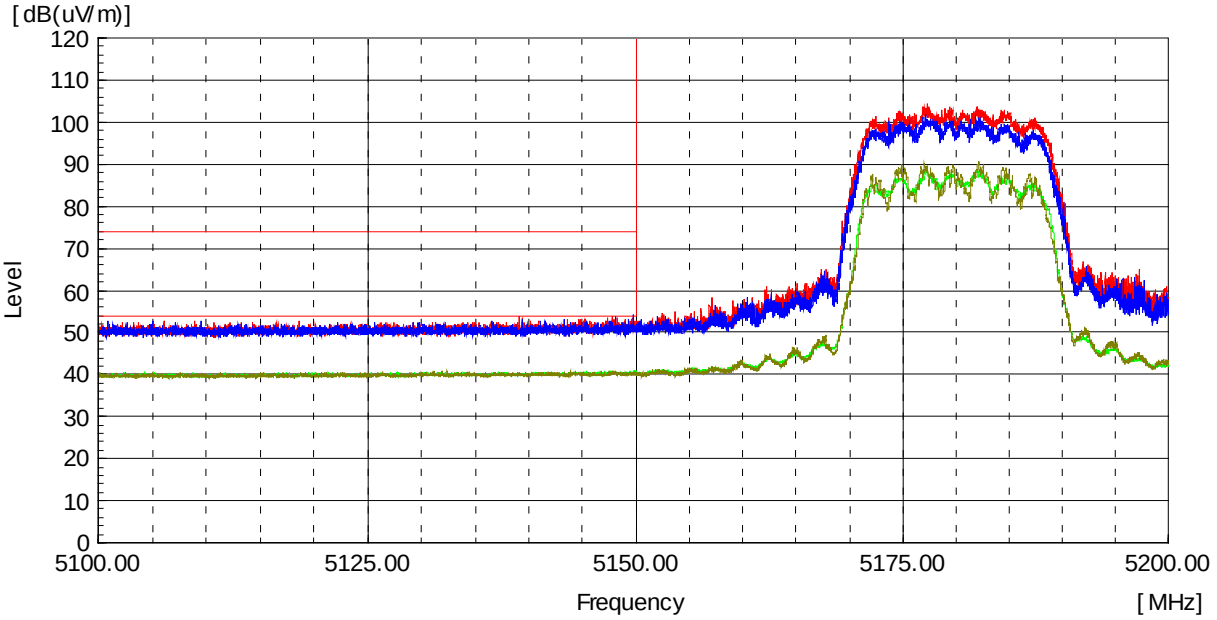
Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 643.05	H	48.4	-----	8.3	-----	56.7	-----	74.0	-----	17.3	-----
11 657.53	H	-----	34.9	8.3	0.2	-----	43.4	-----	54.0	-----	10.6
11 647.15	V	53.1	-----	8.3	-----	61.4	-----	74.0	-----	12.6	-----
11 649.67	V	-----	39.1	8.3	0.2	-----	47.6	-----	54.0	-----	6.4

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36

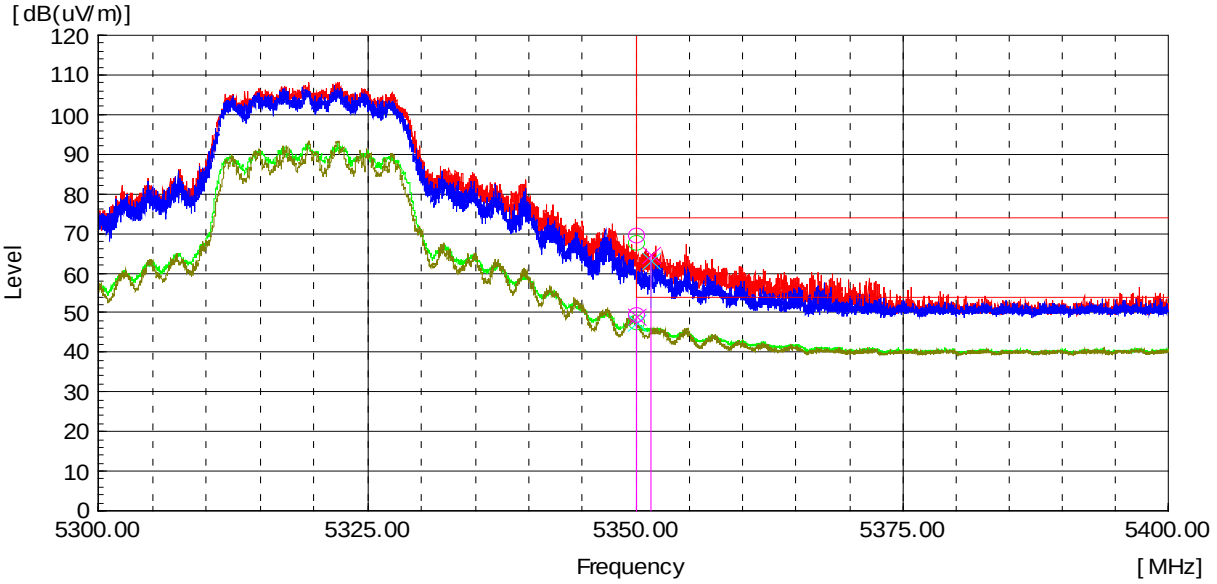


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

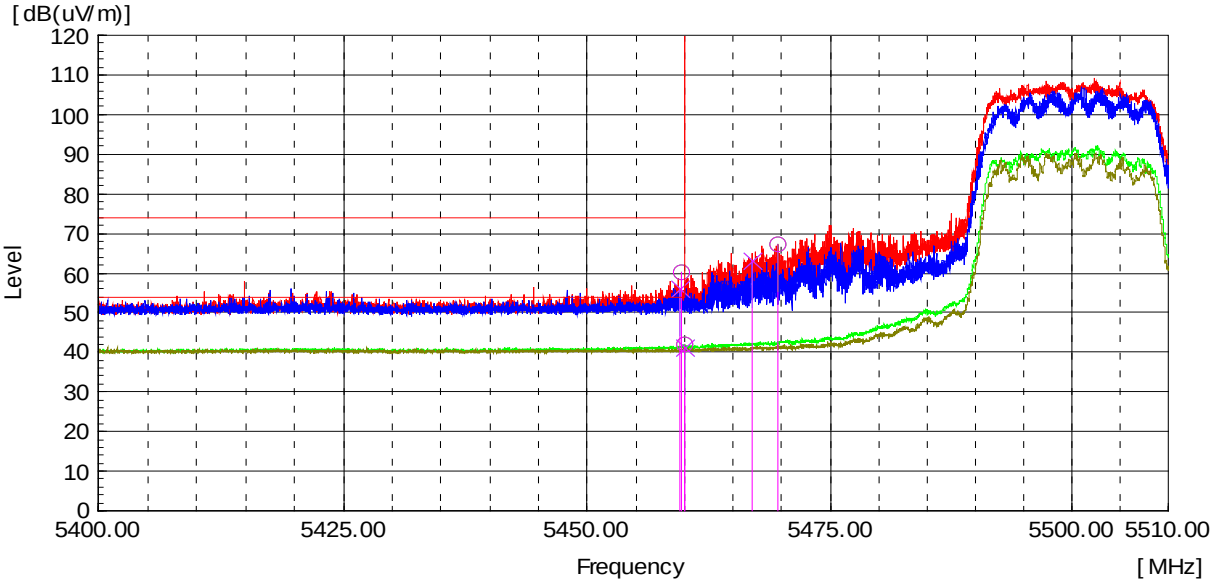
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 350.10	H	67.6	-----	1.7	-----	69.3	-----	74.0	-----	4.7	-----
5 350.14	H	-----	47.6	1.7	0.2	-----	49.5	-----	54.0	-----	4.5
5 351.49	V	63.0	-----	1.7	-----	64.7	-----	74.0	-----	9.3	-----
5 350.08	V	-----	47.4	1.7	0.2	-----	49.3	-----	54.0	-----	4.7

Radiated Restricted Band Edge Plot

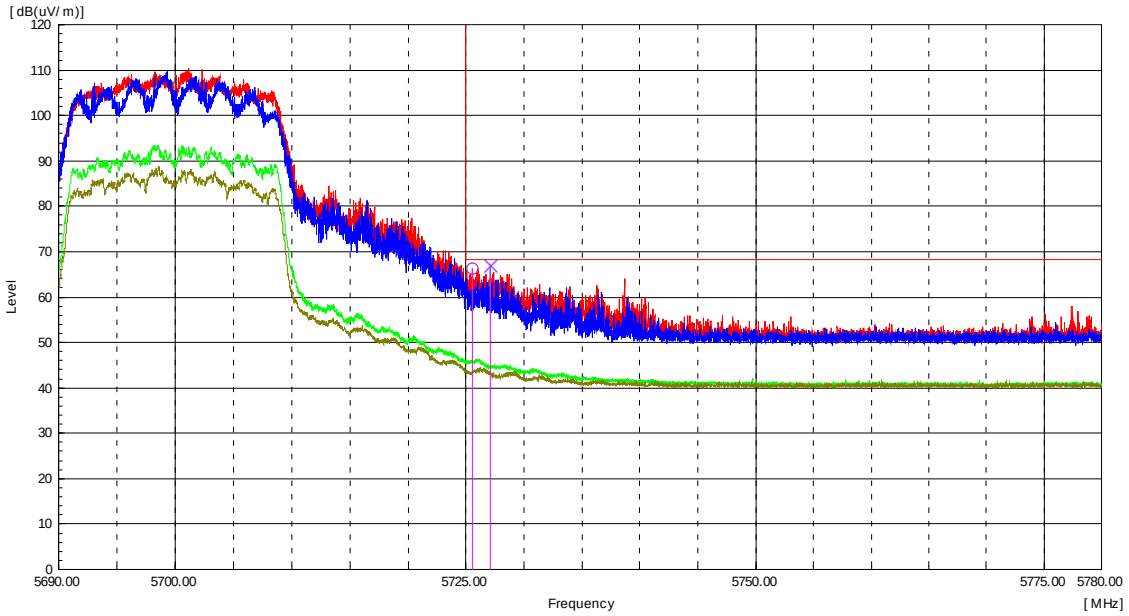
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 459.65	H	58.4	-----	1.7	-----	60.1	-----	74.0	-----	13.9	-----
5 459.98	H	-----	40.2	1.7	0.2	-----	42.1	-----	54.0	-----	11.9
5 459.58	V	54.3	-----	1.7	-----	56.0	-----	74.0	-----	18.0	-----
5 459.94	V	-----	39.5	1.7	0.2	-----	41.4	-----	54.0	-----	12.6
5 469.69	H	65.4	-----	1.7	-----	67.1	-----	68.2	-----	1.1	-----
5 467.02	V	61.3	-----	1.7	-----	63.0	-----	68.2	-----	5.2	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140

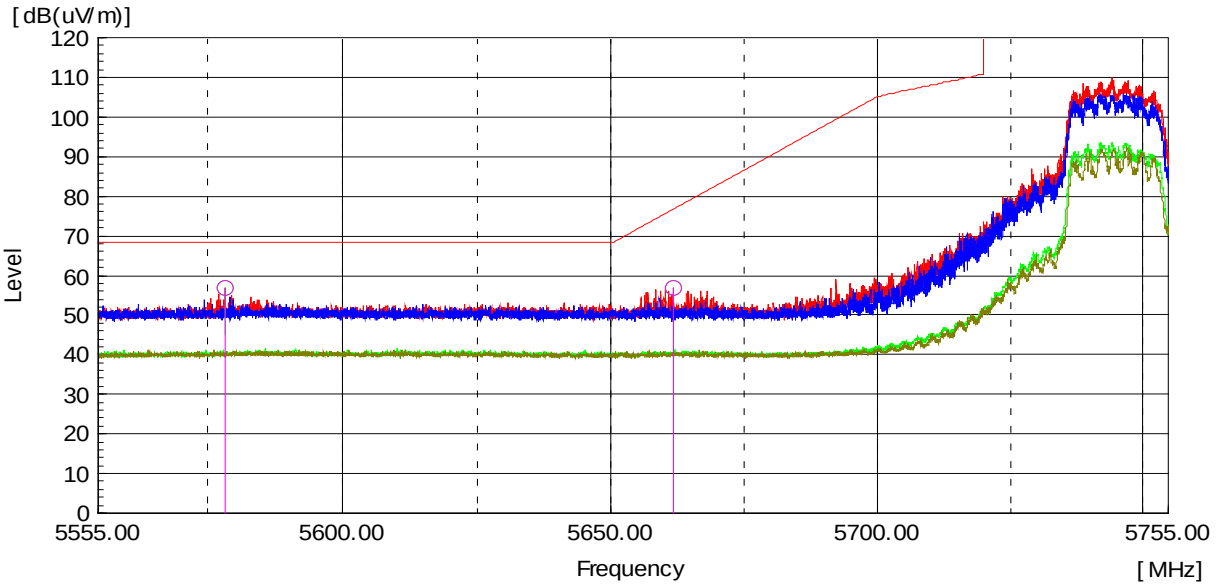


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 725.52	H	64.4	-----	2.0	-----	66.4	-----	68.2	-----	1.8	-----
5 727.11	V	64.9	-----	2.0	-----	66.9	-----	68.2	-----	1.3	-----

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

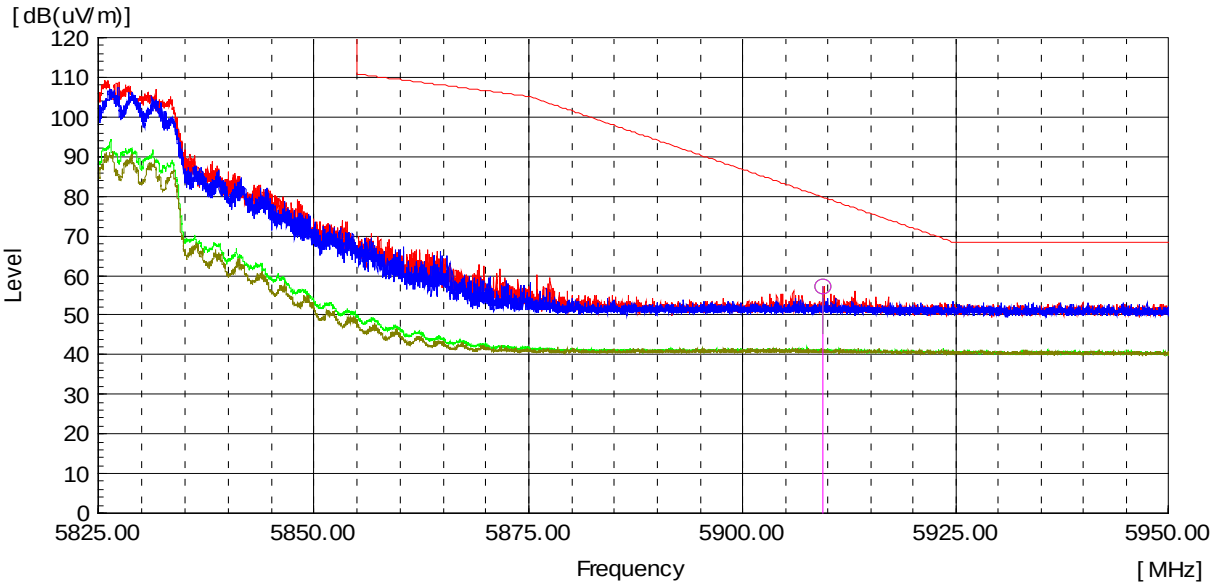
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 578.33	H	55.0	-----	1.8	-----	56.8	-----	68.2	-----	11.4	-----
5 661.60	H	54.7	-----	2.0	-----	56.7	-----	76.8	-----	20.1	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 909.28	H	54.2	-----	3.1	-----	57.3	-----	79.8	-----	22.5	-----

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11ac_VHT20

The requirements are:
☒ Complies

Test Data

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 362.47	H	52.2	-----	6.6	-----	58.8	-----	74.0	-----	15.2	-----
10 359.94	H	-----	35.6	6.6	0.2	-----	42.4	-----	54.0	-----	11.6
10 357.19	V	56.5	-----	6.6	-----	63.1	-----	74.0	-----	10.9	-----
10 360.03	V	-----	42.4	6.6	0.2	-----	49.2	-----	54.0	-----	4.8

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 394.95	H	51.5	-----	7.2	-----	58.7	-----	74.0	-----	15.3	-----
10 399.88	H	-----	35.4	7.2	0.2	-----	42.8	-----	54.0	-----	11.2
10 397.14	V	56.0	-----	7.2	-----	63.2	-----	74.0	-----	10.8	-----
10 397.55	V	-----	40.4	7.2	0.2	-----	47.8	-----	54.0	-----	6.2

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 484.83	H	49.2	-----	7.4	-----	56.6	-----	74.0	-----	17.4	-----
10 479.45	H	-----	35.4	7.3	0.2	-----	42.9	-----	54.0	-----	11.1
10 479.67	V	56.1	-----	7.3	-----	63.4	-----	74.0	-----	10.6	-----
10 479.67	V	-----	40.1	7.3	0.2	-----	47.6	-----	54.0	-----	6.4

Ch.52(5 260 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 517.24	H	53.8	-----	7.5	-----	61.3	-----	74.0	-----	12.7	-----
10 514.58	H	-----	37.5	7.5	0.2	-----	45.2	-----	54.0	-----	8.8
10 517.08	V	60.2	-----	7.5	-----	67.7	-----	74.0	-----	6.3	-----
10 519.75	V	-----	42.4	7.4	0.2	-----	50.0	-----	54.0	-----	4.0

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 600.20	H	53.9	-----	7.3	-----	61.2	-----	74.0	-----	12.8	-----
10 599.46	H	-----	37.9	7.3	0.2	-----	45.4	-----	54.0	-----	8.6
10 604.92	V	56.2	-----	7.3	-----	63.5	-----	74.0	-----	10.5	-----
10 604.65	V	-----	41.6	7.3	0.2	-----	49.1	-----	54.0	-----	4.9

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 637.13	H	53.4	-----	7.4	-----	60.8	-----	74.0	-----	13.2	-----
10 637.13	H	-----	37.9	7.4	0.2	-----	45.5	-----	54.0	-----	8.5
10 637.06	V	55.8	-----	7.4	-----	63.2	-----	74.0	-----	10.8	-----
10 641.75	V	-----	41.7	7.4	0.2	-----	49.3	-----	54.0	-----	4.7

Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 001.38	H	50.4	-----	7.8	-----	58.2	-----	74.0	-----	15.8	-----
10 999.31	H	-----	37.3	7.8	0.2	-----	45.3	-----	54.0	-----	8.7
10 997.10	V	53.0	-----	7.8	-----	60.8	-----	74.0	-----	13.2	-----
10 999.36	V	-----	37.9	7.8	0.2	-----	45.9	-----	54.0	-----	8.1

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 200.66	H	47.6	-----	8.2	-----	55.8	-----	74.0	-----	18.2	-----
11 201.47	H	-----	35.4	8.2	0.2	-----	43.8	-----	54.0	-----	10.2
11 198.66	V	51.0	-----	8.2	-----	59.2	-----	74.0	-----	14.8	-----
11 198.83	V	-----	36.2	8.2	0.2	-----	44.6	-----	54.0	-----	9.4

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 394.42	H	46.8	-----	8.5	-----	55.3	-----	74.0	-----	18.7	-----
11 401.90	H	-----	34.8	8.6	0.2	-----	43.6	-----	54.0	-----	10.4
11 402.00	V	49.0	-----	8.6	-----	57.6	-----	74.0	-----	16.4	-----
11 401.85	V	-----	35.9	8.6	0.2	-----	44.7	-----	54.0	-----	9.3

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 444.53	H	46.7	-----	8.7	-----	55.4	-----	74.0	-----	18.6	-----
11 439.10	H	-----	35.4	8.7	0.2	-----	44.3	-----	54.0	-----	9.7
11 441.11	V	51.5	-----	8.7	-----	60.2	-----	74.0	-----	13.8	-----
11 441.76	V	-----	37.4	8.7	0.2	-----	46.3	-----	54.0	-----	7.7

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 485.76	H	47.8	-----	8.3	-----	56.1	-----	74.0	-----	17.9	-----
11 489.50	H	-----	35.6	8.3	0.2	-----	44.1	-----	54.0	-----	9.9
11 486.56	V	52.1	-----	8.3	-----	60.4	-----	74.0	-----	13.6	-----
11 492.10	V	-----	37.4	8.3	0.2	-----	45.9	-----	54.0	-----	8.1

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 570.26	H	48.3	-----	8.6	-----	56.9	-----	74.0	-----	17.1	-----
11 567.26	H	-----	35.0	8.6	0.2	-----	43.8	-----	54.0	-----	10.2
11 569.94	V	51.4	-----	8.6	-----	60.0	-----	74.0	-----	14.0	-----
11 569.86	V	-----	38.4	8.6	0.2	-----	47.2	-----	54.0	-----	6.8

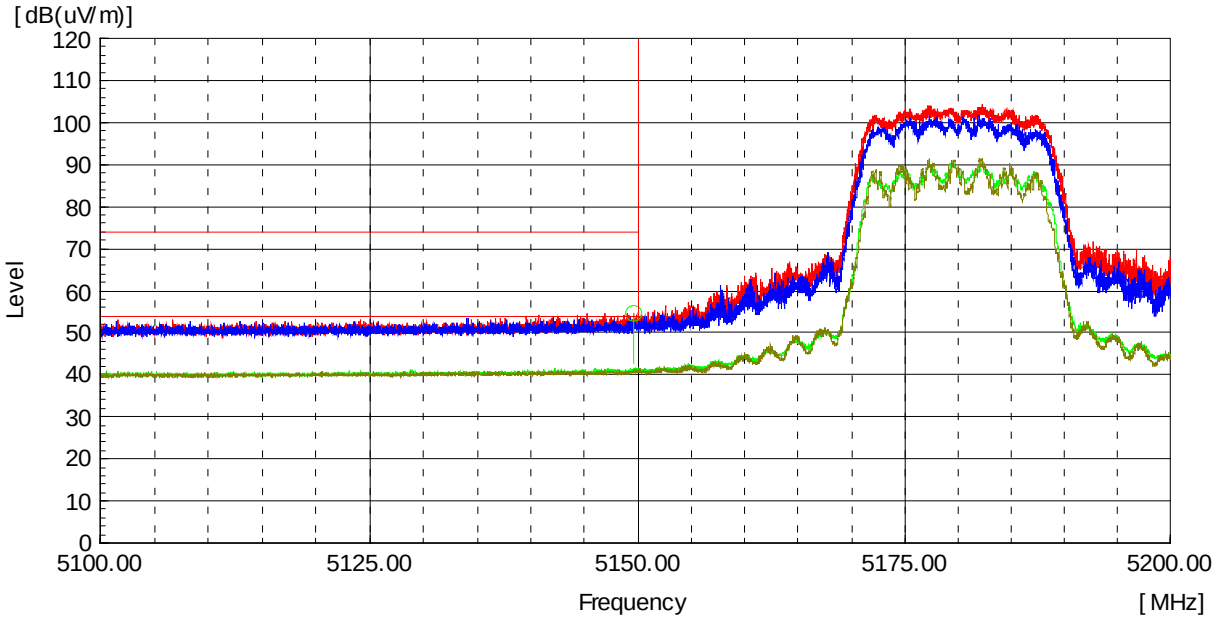
Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 652.70	H	49.4	-----	8.3	-----	57.7	-----	74.0	-----	16.3	-----
11 652.16	H	-----	34.9	8.3	0.2	-----	43.4	-----	54.0	-----	10.6
11 647.33	V	52.3	-----	8.3	-----	60.6	-----	74.0	-----	13.4	-----
11 649.88	V	-----	39.0	8.3	0.2	-----	47.5	-----	54.0	-----	6.5

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36

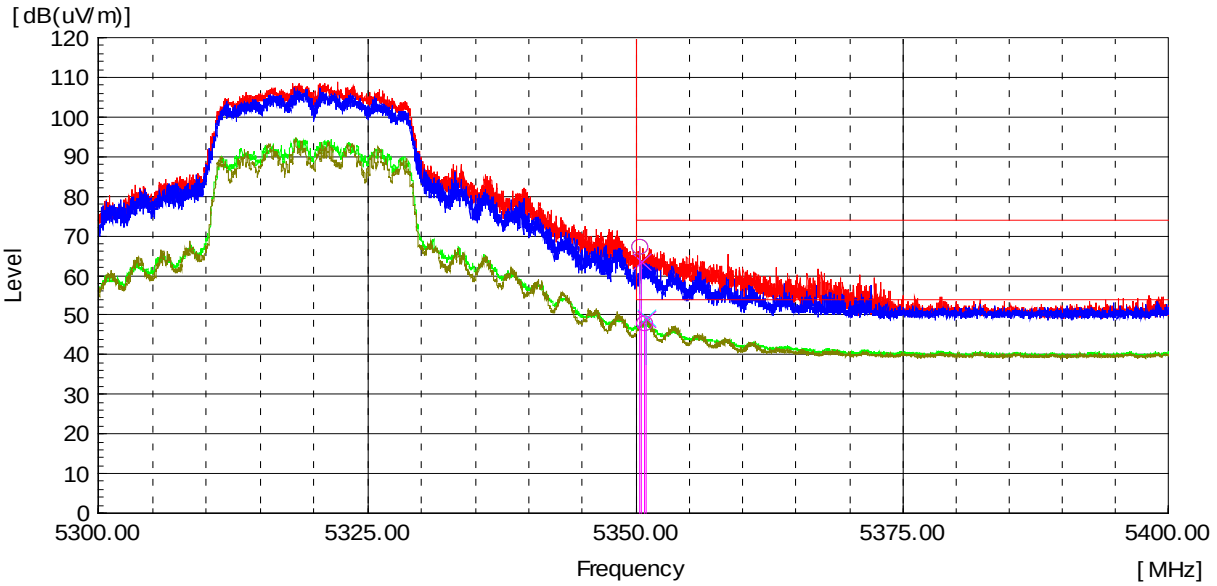


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 149.59	H	53.2	-----	1.6	-----	54.8	-----	74.0	-----	19.2	-----

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

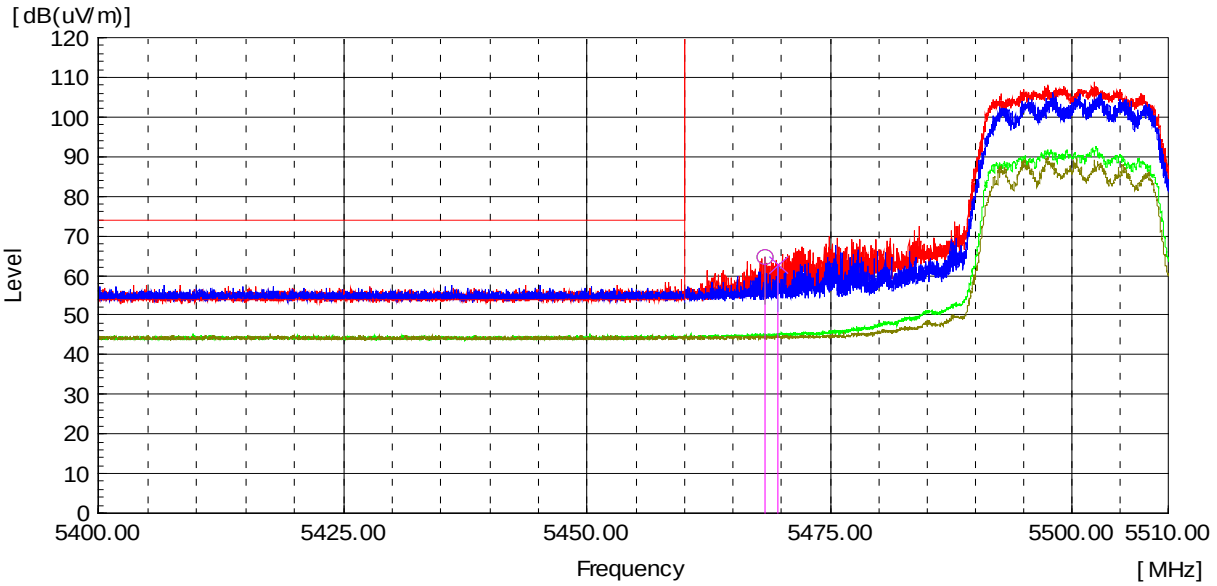
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 350.43	H	65.7	-----	1.7	-----	67.4	-----	74.0	-----	6.6	-----
5 350.83	H	-----	46.1	1.7	0.2	-----	48.0	-----	54.0	-----	6.0
5 350.54	V	61.7	-----	1.7	-----	63.4	-----	74.0	-----	10.6	-----
5 350.93	V	-----	47.5	1.7	0.2	-----	49.4	-----	54.0	-----	4.6

Radiated Restricted Band Edge Plot

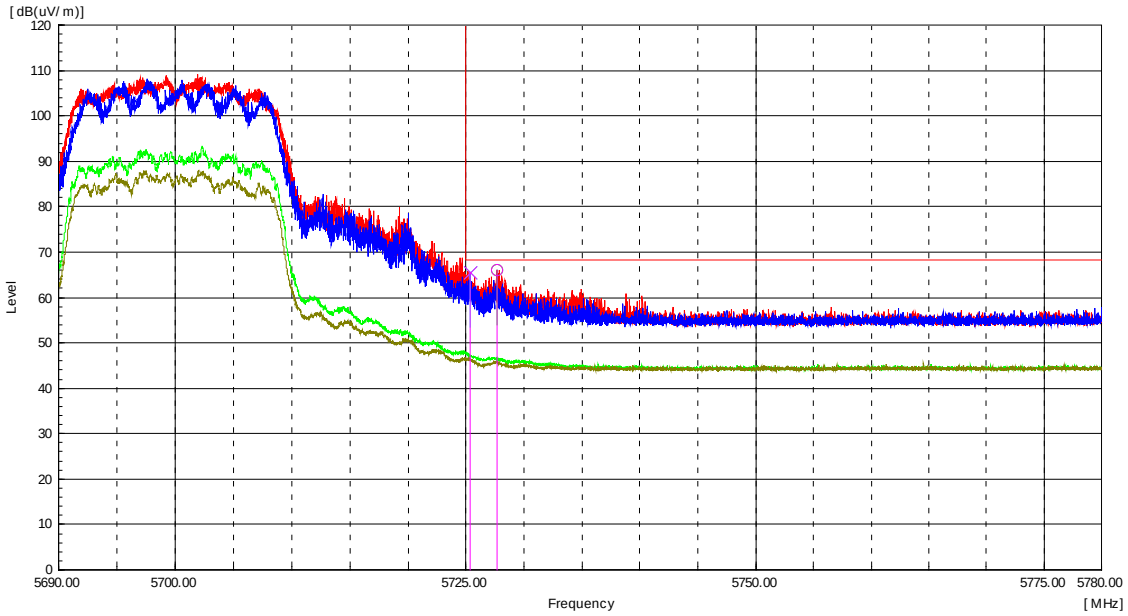
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 468.21	H	63.1	-----	1.7	-----	64.8	-----	68.2	-----	3.4	-----
5 469.60	V	61.0	-----	1.7	-----	62.7	-----	68.2	-----	5.5	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140

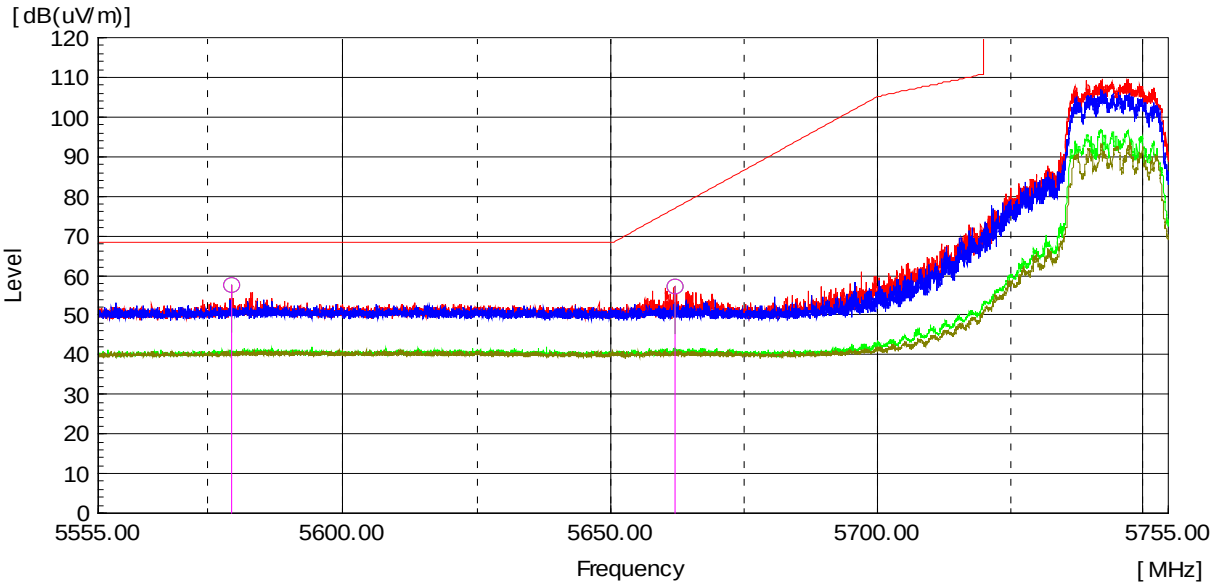


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 725.38	V	63.5	-----	2.0	-----	65.5	-----	68.2	-----	2.7	-----
5 727.62	H	64.0	-----	2.1	-----	66.1	-----	68.2	-----	2.1	-----

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

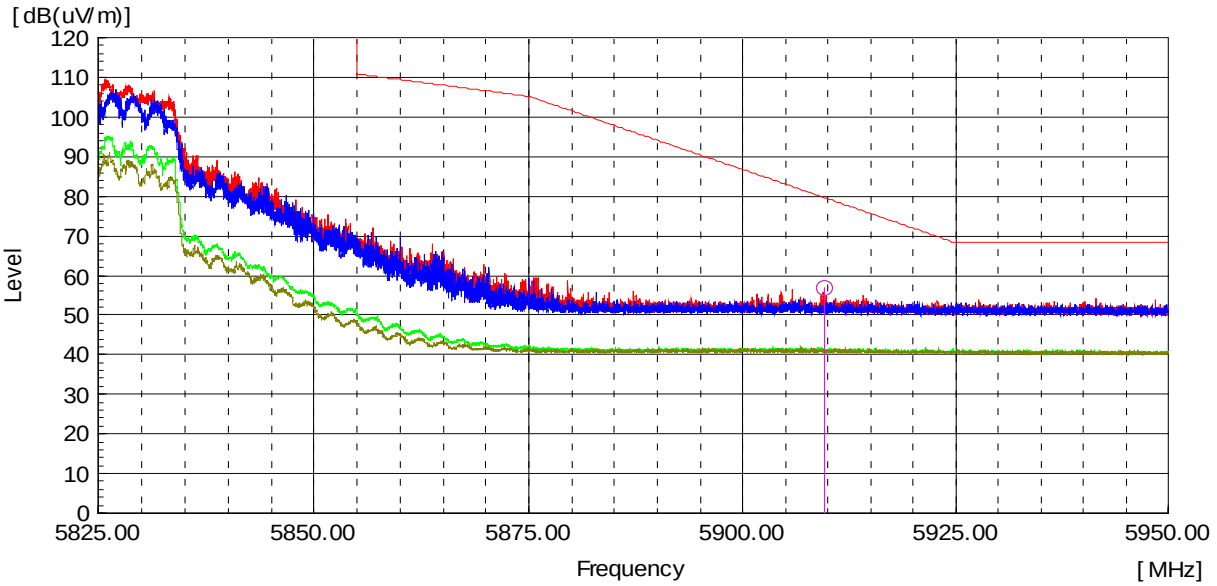
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 579.65	H	55.7	-----	1.8	-----	57.5	-----	68.2	-----	10.7	-----
5 661.80	H	55.2	-----	2.0	-----	57.2	-----	76.9	-----	19.7	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 909.47	H	53.7	-----	3.1	-----	56.8	-----	79.7	-----	22.9	-----

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11n_HT40

The requirements are:
☒ Complies

Test Data

Ch.38(5 190 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 379.51	H	51.6	-----	6.9	-----	58.5	-----	74.0	-----	15.5	-----
10 379.53	H	-----	35.8	6.9	0.3	-----	43.0	-----	54.0	-----	11.0
10 377.31	V	56.4	-----	6.9	-----	63.3	-----	74.0	-----	10.7	-----
10 379.95	V	-----	41.4	7.0	0.3	-----	48.7	-----	54.0	-----	5.3

Ch.46(5 230 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 458.78	H	51.2	-----	6.9	-----	58.1	-----	74.0	-----	15.9	-----
10 459.30	H	-----	35.9	6.9	0.3	-----	43.1	-----	54.0	-----	10.9
10 459.80	V	56.2	-----	6.9	-----	63.1	-----	74.0	-----	10.9	-----
10 459.58	V	-----	41.7	6.9	0.3	-----	48.9	-----	54.0	-----	5.1

Ch.54(5 270 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 540.10	H	49.6	-----	7.2	-----	56.8	-----	74.0	-----	17.2	-----
10 539.67	H	-----	36.2	7.2	0.3	-----	43.7	-----	54.0	-----	10.3
10 539.77	V	54.3	-----	7.2	-----	61.5	-----	74.0	-----	12.5	-----
10 539.35	V	-----	38.8	7.2	0.3	-----	46.3	-----	54.0	-----	7.7

Ch.62(5 310 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 614.40	H	49.2	-----	7.3	-----	56.5	-----	74.0	-----	17.5	-----
10 619.58	H	-----	36.4	7.3	0.3	-----	44.0	-----	54.0	-----	10.0
10 614.78	V	52.3	-----	7.3	-----	59.6	-----	74.0	-----	14.4	-----
10 619.58	V	-----	39.1	7.3	0.3	-----	46.7	-----	54.0	-----	7.3

Ch.102(5 510 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 028.90	H	47.1	-----	7.7	-----	54.8	-----	74.0	-----	19.2	-----
11 024.63	H	-----	35.3	7.7	0.3	-----	43.3	-----	54.0	-----	10.7
11 016.95	V	48.7	-----	7.7	-----	56.4	-----	74.0	-----	17.6	-----
11 019.90	V	-----	36.1	7.7	0.3	-----	44.1	-----	54.0	-----	9.9

Ch.118(5 590 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 178.80	H	47.6	-----	8.2	-----	55.8	-----	74.0	-----	18.2	-----
11 203.25	H	-----	34.9	8.2	0.3	-----	43.4	-----	54.0	-----	10.6
11 201.75	V	46.7	-----	8.2	-----	54.9	-----	74.0	-----	19.1	-----
11 183.95	V	-----	35.1	8.2	0.3	-----	43.6	-----	54.0	-----	10.4

Ch.134(5 670 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 318.80	H	45.7	-----	8.4	-----	54.1	-----	74.0	-----	19.9	-----
11 348.65	H	-----	34.3	8.4	0.3	-----	43.0	-----	54.0	-----	11.0
11 339.17	V	46.9	-----	8.4	-----	55.3	-----	74.0	-----	18.7	-----
11 338.90	V	-----	35.8	8.4	0.3	-----	44.5	-----	54.0	-----	9.5

Ch.142(5 710 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 431.08	H	45.9	-----	8.6	-----	54.5	-----	74.0	-----	19.5	-----
11 403.25	H	-----	34.2	8.6	0.3	-----	43.1	-----	54.0	-----	10.9
11 413.80	V	47.2	-----	8.6	-----	55.8	-----	74.0	-----	18.2	-----
11 419.53	V	-----	35.5	8.6	0.3	-----	44.4	-----	54.0	-----	9.6

Ch.151(5 755 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 504.33	H	46.8	-----	8.3	-----	55.1	-----	74.0	-----	18.9	-----
11 519.13	H	-----	34.9	8.4	0.3	-----	43.6	-----	54.0	-----	10.4
11 508.92	V	48.6	-----	8.3	-----	56.9	-----	74.0	-----	17.1	-----
11 508.92	V	-----	36.5	8.3	0.3	-----	45.1	-----	54.0	-----	8.9

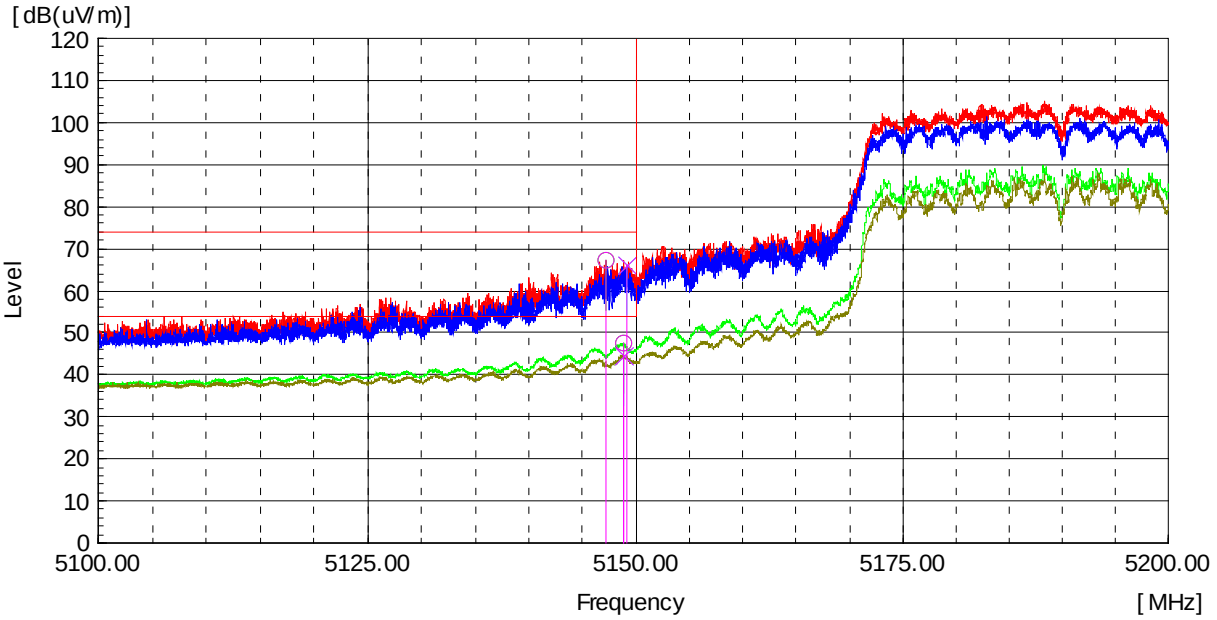
Ch.159(5 795 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 571.78	H	47.0	-----	8.5	-----	55.5	-----	74.0	-----	18.5	-----
11 568.15	H	-----	34.9	8.6	0.3	-----	43.8	-----	54.0	-----	10.2
11 589.53	V	50.1	-----	8.4	-----	58.5	-----	74.0	-----	15.5	-----
11 589.67	V	-----	38.1	8.4	0.3	-----	46.8	-----	54.0	-----	7.2

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

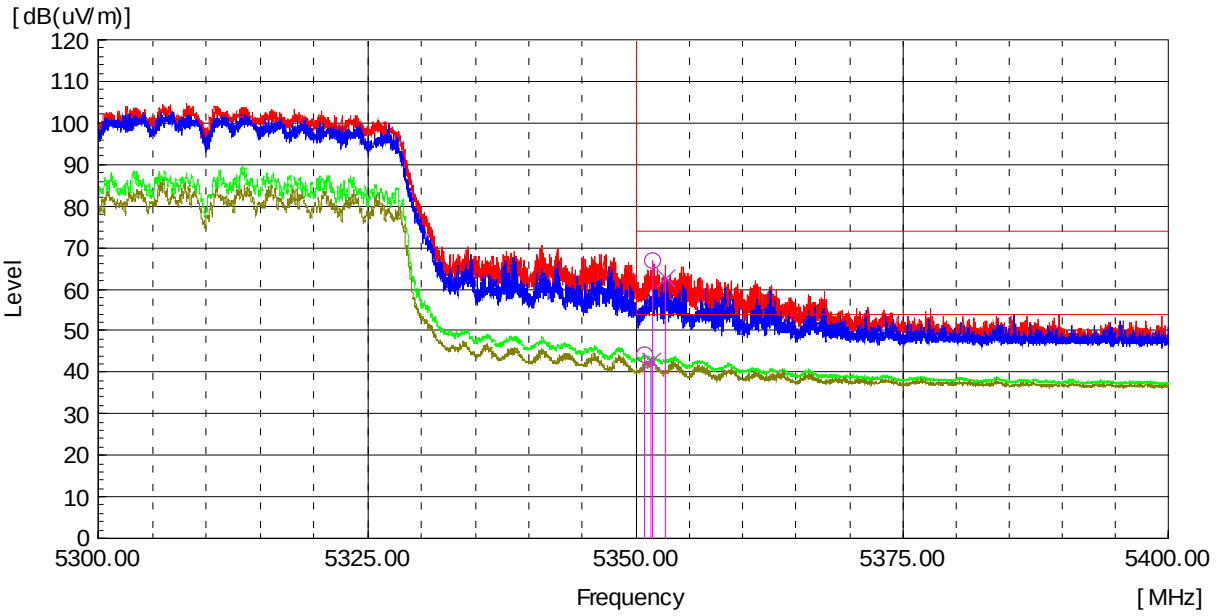
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 190 MHz
Channel :	38



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 147.16	H	65.8	-----	1.6	-----	67.4	-----	74.0	-----	6.6	-----
5 148.83	H	-----	46.1	1.6	0.3	-----	48.0	-----	54.0	-----	6.0
5 149.14	V	64.4	-----	1.6	-----	66.0	-----	74.0	-----	8.0	-----
5 148.84	V	-----	43.1	1.6	0.3	-----	45.0	-----	54.0	-----	9.0

Radiated Restricted Band Edge Plot

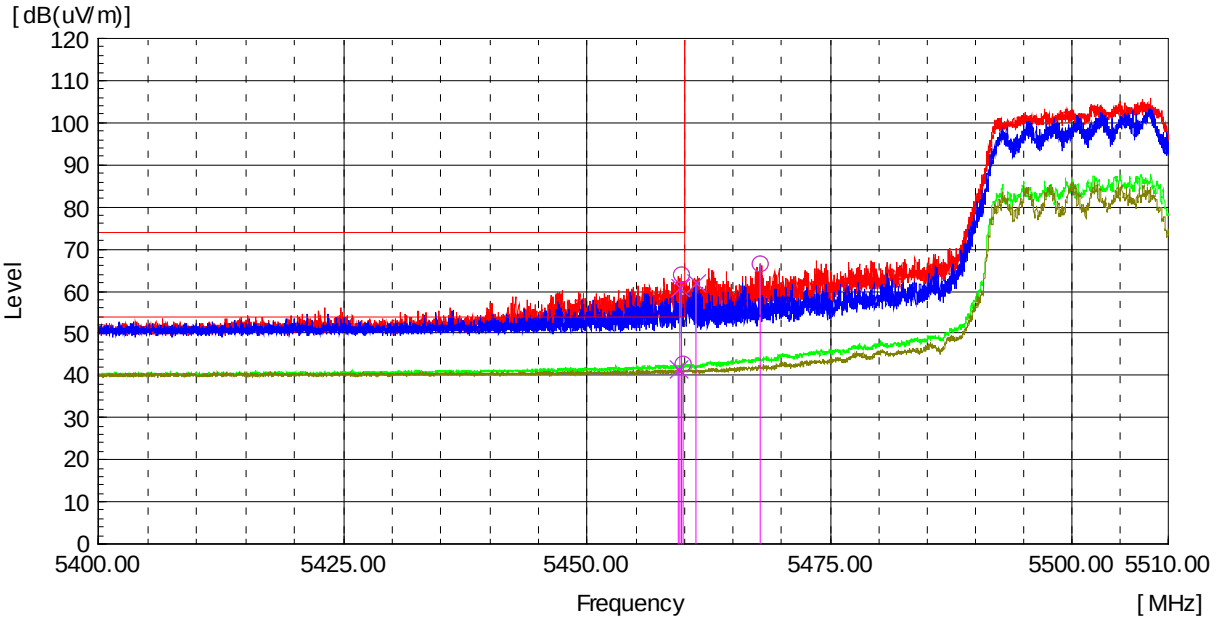
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 310 MHz
Channel :	62



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 351.63	H	65.1	-----	1.7	-----	66.8	-----	74.0	-----	7.2	-----
5 350.75	H	-----	42.4	1.7	0.3	-----	44.4	-----	54.0	-----	9.6
5 352.74	V	61.1	-----	1.7	-----	62.8	-----	74.0	-----	11.2	-----
5 351.38	V	-----	41.1	1.7	0.3	-----	43.1	-----	54.0	-----	10.9

Radiated Restricted Band Edge Plot

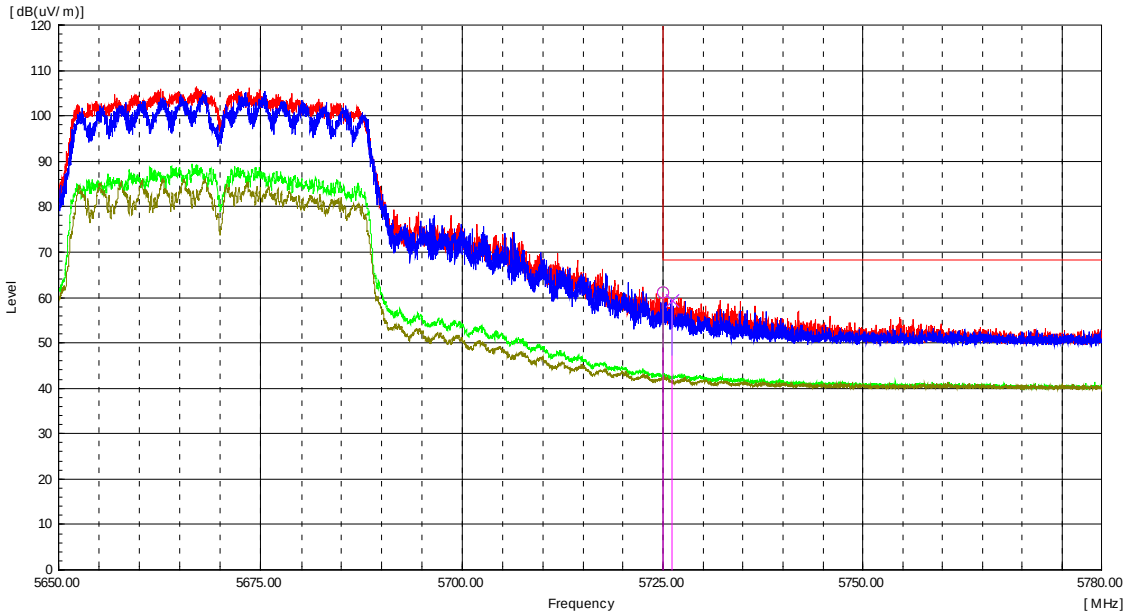
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 510 MHz
Channel :	102



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 459.62	H	62.1	-----	1.7	-----	63.8	-----	74.0	-----	10.2	-----
5 459.91	H	-----	41.0	1.7	0.3	-----	43.0	-----	54.0	-----	11.0
5 459.58	V	59.2	-----	1.7	-----	60.9	-----	74.0	-----	13.1	-----
5 459.35	V	-----	39.8	1.7	0.3	-----	41.8	-----	54.0	-----	12.2
5 467.72	H	64.7	-----	1.7	-----	66.4	-----	68.2	-----	1.8	-----
5 461.16	V	60.5	-----	1.7	-----	62.2	-----	68.2	-----	6.0	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 670 MHz
Channel :	134

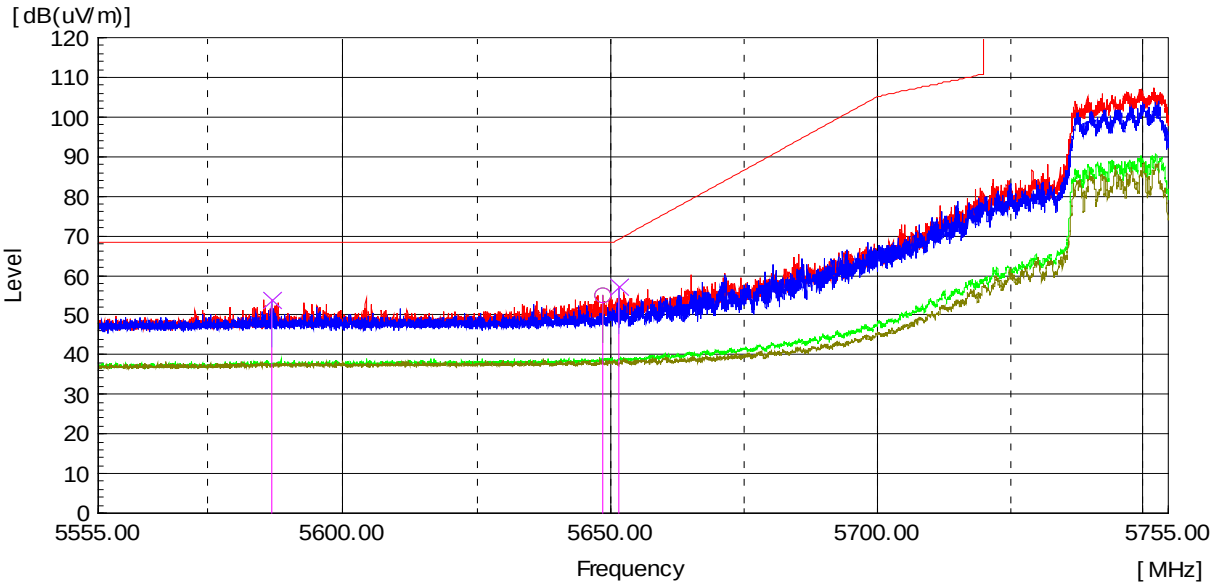


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 725.03	H	59.0	-----	2.0	-----	61.0	-----	68.2	-----	7.2	-----
5 726.03	V	57.3	-----	2.0	-----	59.3	-----	68.2	-----	8.9	-----

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

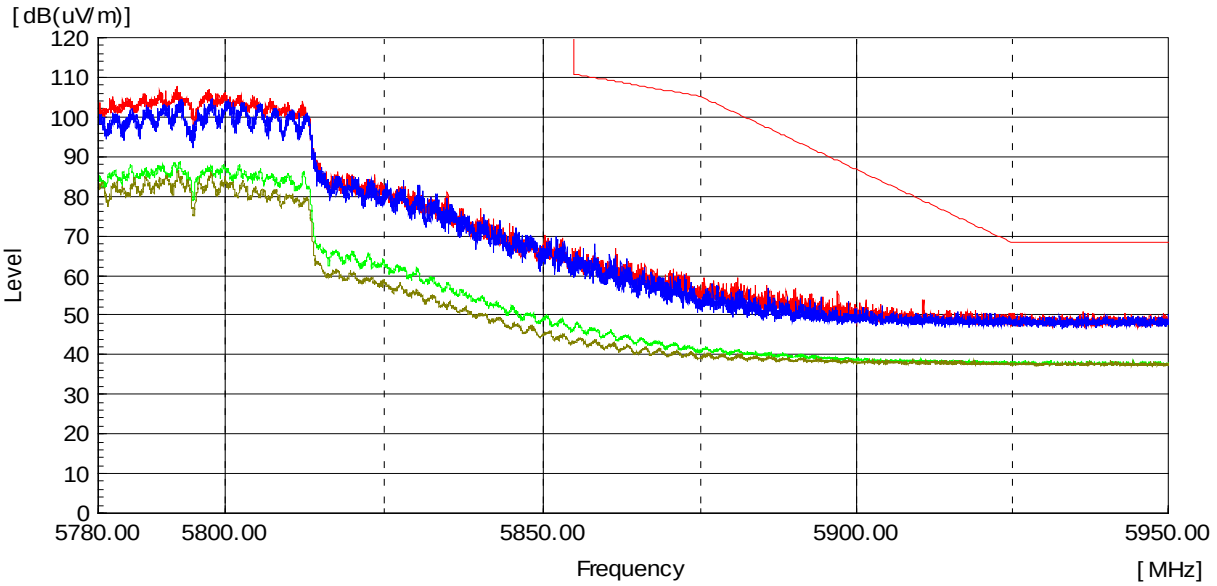
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 755 MHz
Channel :	151



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 586.85	V	52.1	-----	1.9	-----	54.0	-----	68.2	-----	14.2	-----
5 648.48	H	52.9	-----	2.0	-----	54.9	-----	68.2	-----	13.3	-----
5 651.45	V	55.1	-----	2.0	-----	57.1	-----	69.3	-----	12.2	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 795 MHz
Channel :	159



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11ac_VHT40

The requirements are:
☒ Complies

Test Data

Ch.38(5 190 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 379.70	H	51.5	-----	6.9	-----	58.4	-----	74.0	-----	15.6	-----
10 379.70	H	-----	35.9	6.9	0.3	-----	43.1	-----	54.0	-----	10.9
10 379.80	V	57.7	-----	6.9	-----	64.6	-----	74.0	-----	9.4	-----
10 379.62	V	-----	41.5	6.9	0.3	-----	48.7	-----	54.0	-----	5.3

Ch.46(5 230 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 460.22	H	49.9	-----	6.9	-----	56.8	-----	74.0	-----	17.2	-----
10 459.60	H	-----	36.0	6.9	0.3	-----	43.2	-----	54.0	-----	10.8
10 454.35	V	56.0	-----	6.8	-----	62.8	-----	74.0	-----	11.2	-----
10 459.83	V	-----	42.1	6.9	0.3	-----	49.3	-----	54.0	-----	4.7

Ch.54(5 270 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 538.65	H	49.5	-----	7.2	-----	56.7	-----	74.0	-----	17.3	-----
10 539.65	H	-----	36.3	7.2	0.3	-----	43.8	-----	54.0	-----	10.2
10 539.72	V	52.9	-----	7.2	-----	60.1	-----	74.0	-----	13.9	-----
10 539.82	V	-----	39.0	7.2	0.3	-----	46.5	-----	54.0	-----	7.5

Ch.62(5 310 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 614.23	H	50.0	-----	7.3	-----	57.3	-----	74.0	-----	16.7	-----
10 619.75	H	-----	36.5	7.3	0.3	-----	44.1	-----	54.0	-----	9.9
10 619.53	V	51.7	-----	7.3	-----	59.0	-----	74.0	-----	15.0	-----
10 619.60	V	-----	38.9	7.3	0.3	-----	46.5	-----	54.0	-----	7.5

Ch.102(5 510 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 012.07	H	46.6	-----	7.8	-----	54.4	-----	74.0	-----	19.6	-----
11 016.52	H	-----	35.3	7.7	0.3	-----	43.3	-----	54.0	-----	10.7
11 013.67	V	48.4	-----	7.8	-----	56.2	-----	74.0	-----	17.8	-----
11 019.22	V	-----	36.1	7.7	0.3	-----	44.1	-----	54.0	-----	9.9

Ch.118(5 590 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 173.62	H	46.1	-----	8.1	-----	54.2	-----	74.0	-----	19.8	-----
11 191.28	H	-----	35.0	8.2	0.3	-----	43.5	-----	54.0	-----	10.5
11 175.60	V	46.6	-----	8.1	-----	54.7	-----	74.0	-----	19.3	-----
11 176.82	V	-----	35.2	8.1	0.3	-----	43.6	-----	54.0	-----	10.4

Ch.134(5 670 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 352.60	H	45.9	-----	8.4	-----	54.3	-----	74.0	-----	19.7	-----
11 361.50	H	-----	34.3	8.5	0.3	-----	43.1	-----	54.0	-----	10.9
11 342.38	V	47.1	-----	8.4	-----	55.5	-----	74.0	-----	18.5	-----
11 332.55	V	-----	35.8	8.4	0.3	-----	44.5	-----	54.0	-----	9.5

Ch.142(5 710 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 405.15	H	46.1	-----	8.6	-----	54.7	-----	74.0	-----	19.3	-----
11 401.98	H	-----	34.2	8.6	0.3	-----	43.1	-----	54.0	-----	10.9
11 416.98	V	47.5	-----	8.6	-----	56.1	-----	74.0	-----	17.9	-----
11 414.48	V	-----	36.1	8.6	0.3	-----	45.0	-----	54.0	-----	9.0

Ch.151(5 755 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 538.95	H	46.4	-----	8.6	-----	55.0	-----	74.0	-----	19.0	-----
11 529.47	H	-----	34.8	8.5	0.3	-----	43.6	-----	54.0	-----	10.4
11 509.55	V	48.9	-----	8.3	-----	57.2	-----	74.0	-----	16.8	-----
11 509.90	V	-----	36.9	8.3	0.3	-----	45.5	-----	54.0	-----	8.5

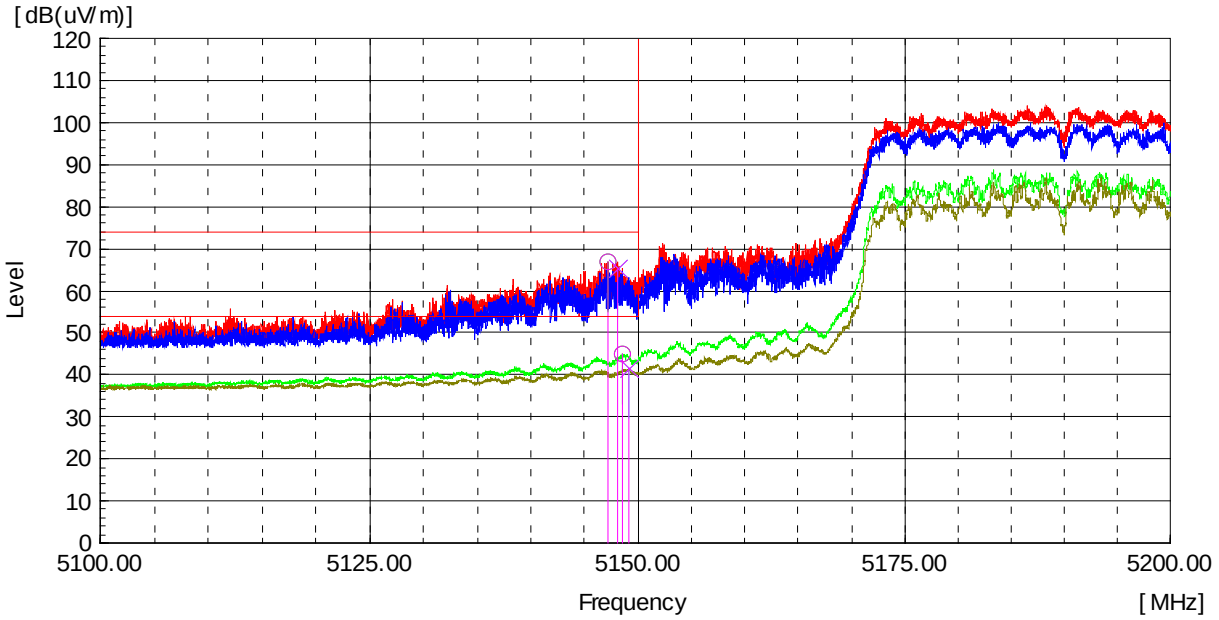
Ch.159(5 795 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 584.67	H	47.2	-----	8.4	-----	55.6	-----	74.0	-----	18.4	-----
11 579.88	H	-----	34.9	8.4	0.3	-----	43.6	-----	54.0	-----	10.4
11 589.60	V	50.6	-----	8.4	-----	59.0	-----	74.0	-----	15.0	-----
11 589.97	V	-----	37.9	8.4	0.3	-----	46.6	-----	54.0	-----	7.4

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 190 MHz
Channel :	38

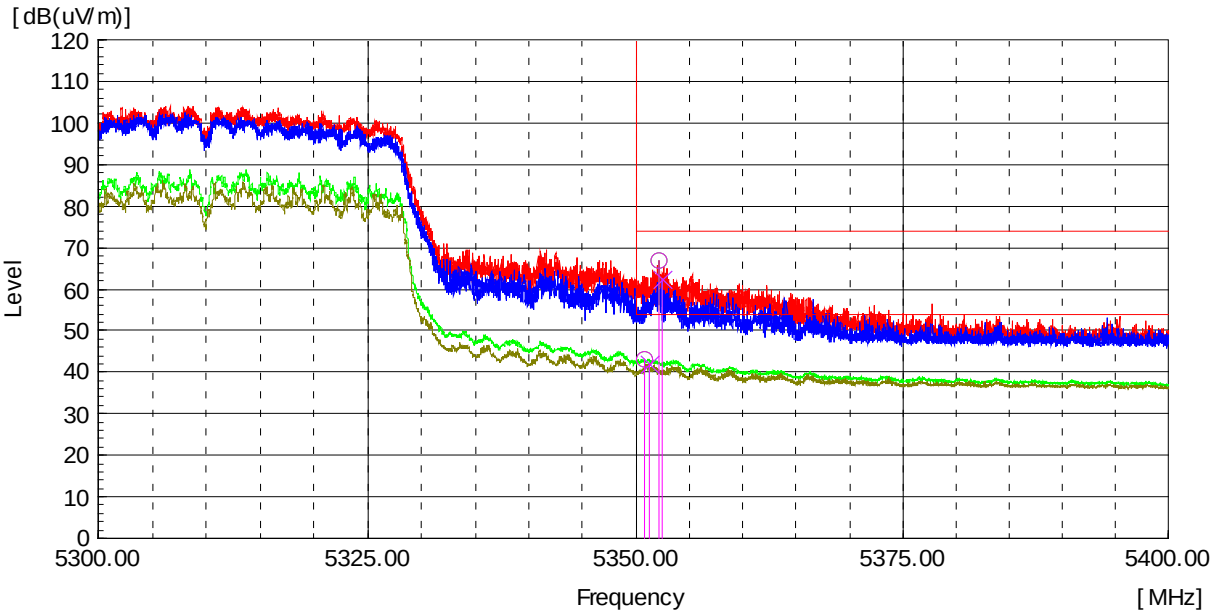


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 147.24	H	65.3	-----	1.6	-----	66.9	-----	74.0	-----	7.1	-----
5 148.59	H	-----	43.3	1.6	0.3	-----	45.2	-----	54.0	-----	8.8
5 148.14	V	63.9	-----	1.6	-----	65.5	-----	74.0	-----	8.5	-----
5 149.16	V	-----	39.9	1.6	0.3	-----	41.8	-----	54.0	-----	12.2

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

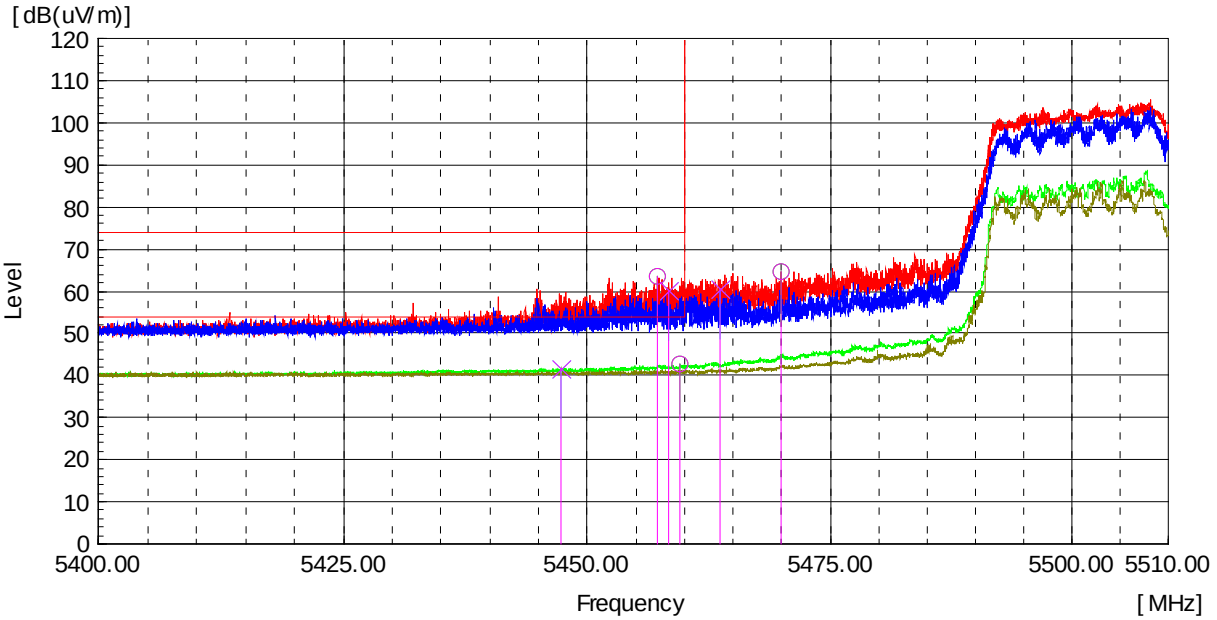
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 310 MHz
Channel :	62



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 352.21	H	65.3	-----	1.7	-----	67.0	-----	74.0	-----	7.0	-----
5 350.81	H	-----	41.5	1.7	0.3	-----	43.5	-----	54.0	-----	10.5
5 352.44	V	60.7	-----	1.7	-----	62.4	-----	74.0	-----	11.6	-----
5 351.20	V	-----	40.2	1.7	0.3	-----	42.2	-----	54.0	-----	11.8

Radiated Restricted Band Edge Plot

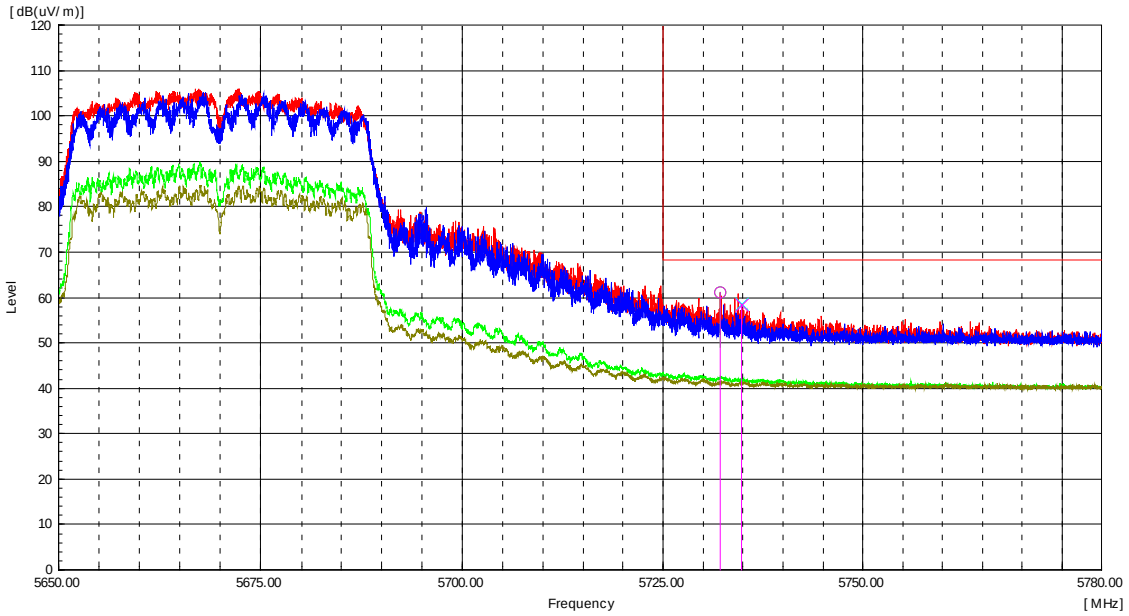
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 510 MHz
Channel :	102



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 457.28	H	61.8	-----	1.7	-----	63.5	-----	74.0	-----	10.5	-----
5 459.58	H	-----	40.9	1.7	0.3	-----	42.9	-----	54.0	-----	11.1
5 458.38	V	58.5	-----	1.7	-----	60.2	-----	74.0	-----	13.8	-----
5 447.22	V	-----	39.9	1.7	0.3	-----	41.9	-----	54.0	-----	12.1
5 469.96	H	63.0	-----	1.7	-----	64.7	-----	68.2	-----	3.5	-----
5 463.61	V	58.9	-----	1.7	-----	60.6	-----	68.2	-----	7.6	-----

Radiated Restricted Band Edge Plot

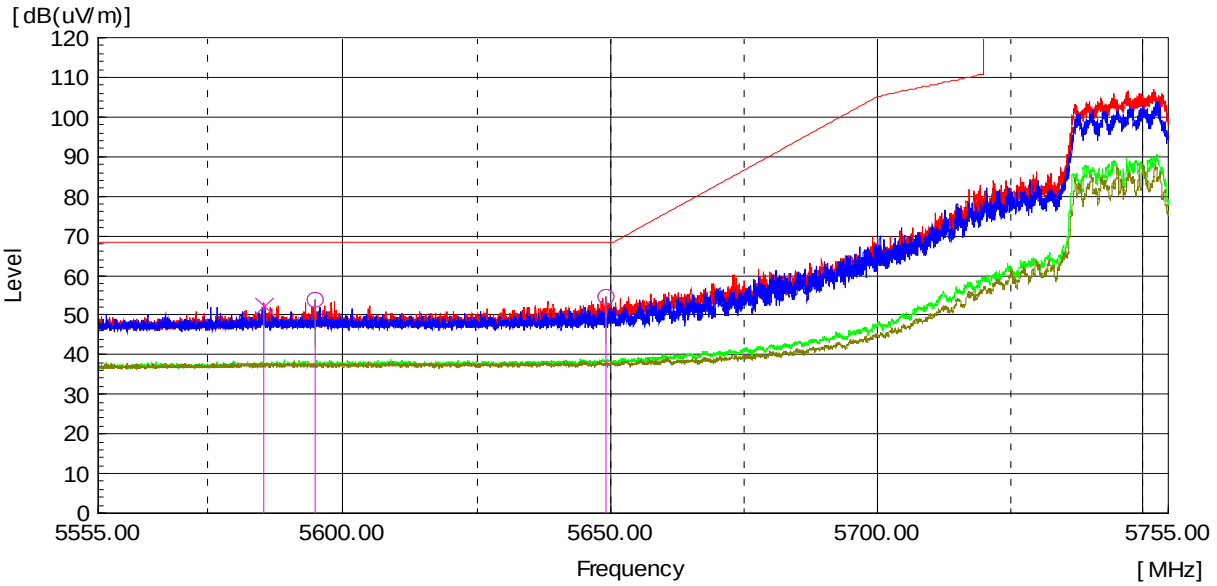
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 670 MHz
Channel :	134



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 732.11	H	59.1	-----	2.1	-----	61.2	-----	68.2	-----	7.0	-----
5 734.79	V	56.4	-----	2.1	-----	58.5	-----	68.2	-----	9.7	-----

Radiated Restricted Band Edge Plot

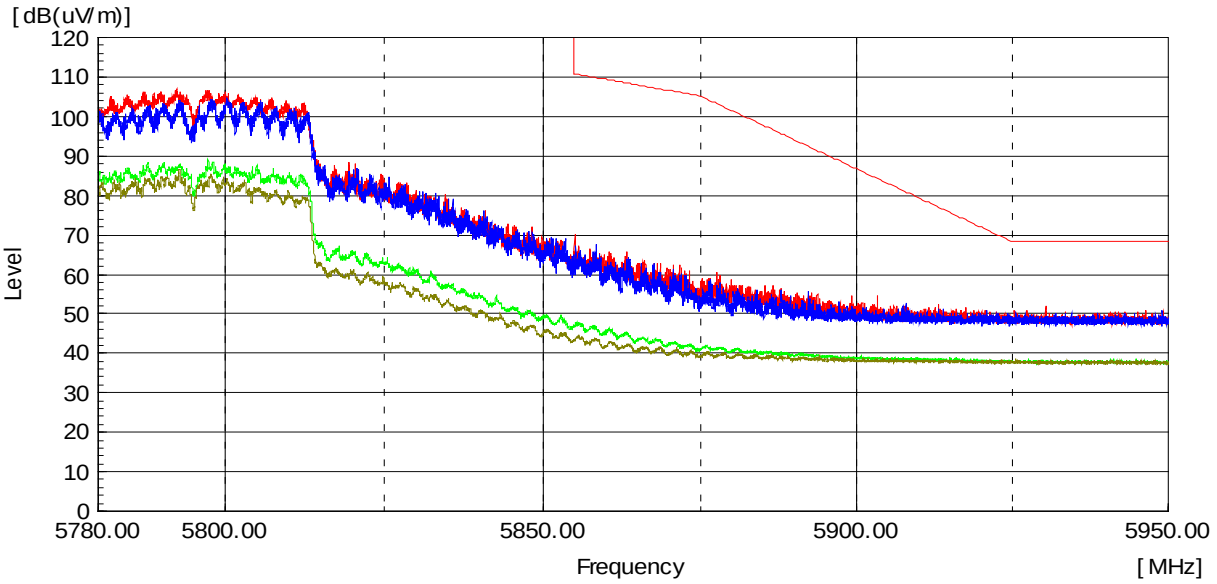
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 755 MHz
Channel :	151



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 594.88	H	51.9	-----	1.9	-----	53.8	-----	68.2	-----	14.4	-----
5 585.50	V	50.6	-----	1.9	-----	52.5	-----	68.2	-----	15.7	-----
5 649.08	H	52.6	-----	2.0	-----	54.6	-----	68.2	-----	13.6	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 795 MHz
Channel :	159



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Radiated Restricted Band Edge Plot

Test mode : Transmitter, 802.11ac_VHT80

The requirements are:
☒ Complies

Test Data

Ch.42(5 210 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 449.00	H	48.8	-----	6.8	-----	55.6	-----	74.0	-----	18.4	-----
10 494.65	H	-----	34.9	7.6	0.6	-----	43.1	-----	54.0	-----	10.9
10 412.30	V	54.1	-----	7.1	-----	61.2	-----	74.0	-----	12.8	-----
10 419.95	V	-----	38.1	7.0	0.6	-----	45.7	-----	54.0	-----	8.3

Ch.58(5 290 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 598.85	H	47.9	-----	7.3	-----	55.2	-----	74.0	-----	18.8	-----
10 570.05	H	-----	35.4	7.2	0.6	-----	43.2	-----	54.0	-----	10.8
10 599.30	V	50.8	-----	7.3	-----	58.1	-----	74.0	-----	15.9	-----
10 579.85	V	-----	36.9	7.2	0.6	-----	44.7	-----	54.0	-----	9.3

Ch.106(5 530 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Ch.122(5 610 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

Ch.138(5 690 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
The emissions above 1 GHz were 20 dB lower than the limit.											

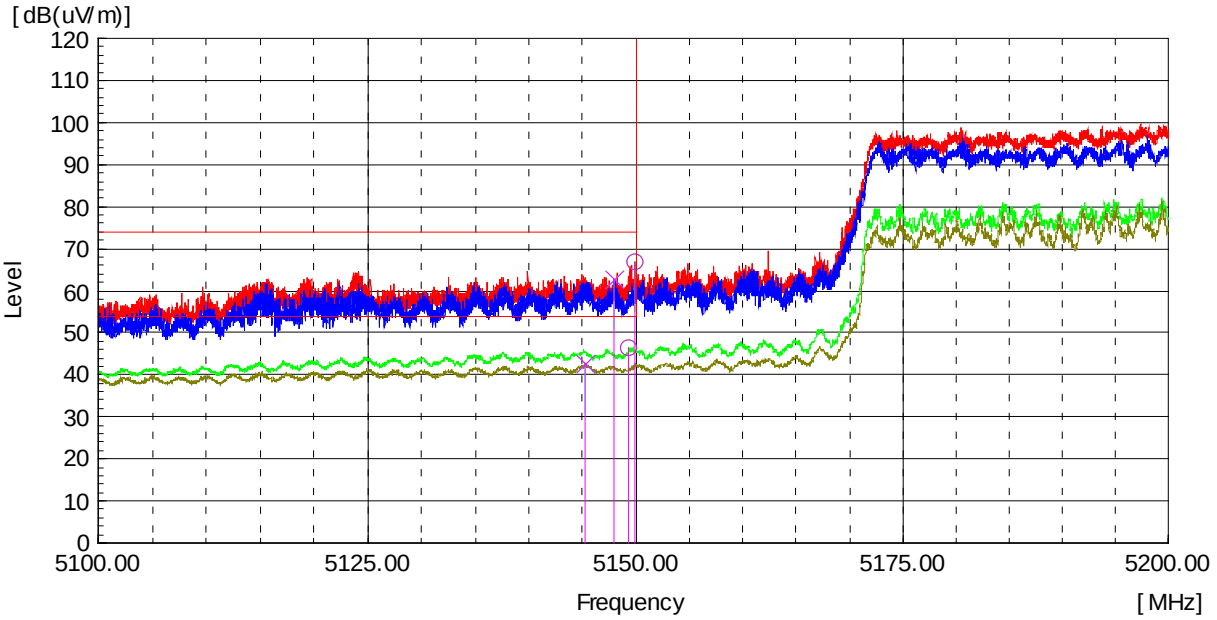
Ch.155(5 775 MHz)

Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 543.20	H	46.4	-----	8.6	-----	55.0	-----	74.0	-----	19.0	-----
11 557.25	H	-----	34.7	8.7	0.6	-----	44.0	-----	54.0	-----	10.0
11 569.45	V	48.8	-----	8.6	-----	57.4	-----	74.0	-----	16.6	-----
11 552.30	V	-----	35.4	8.7	0.6	-----	44.7	-----	54.0	-----	9.3

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

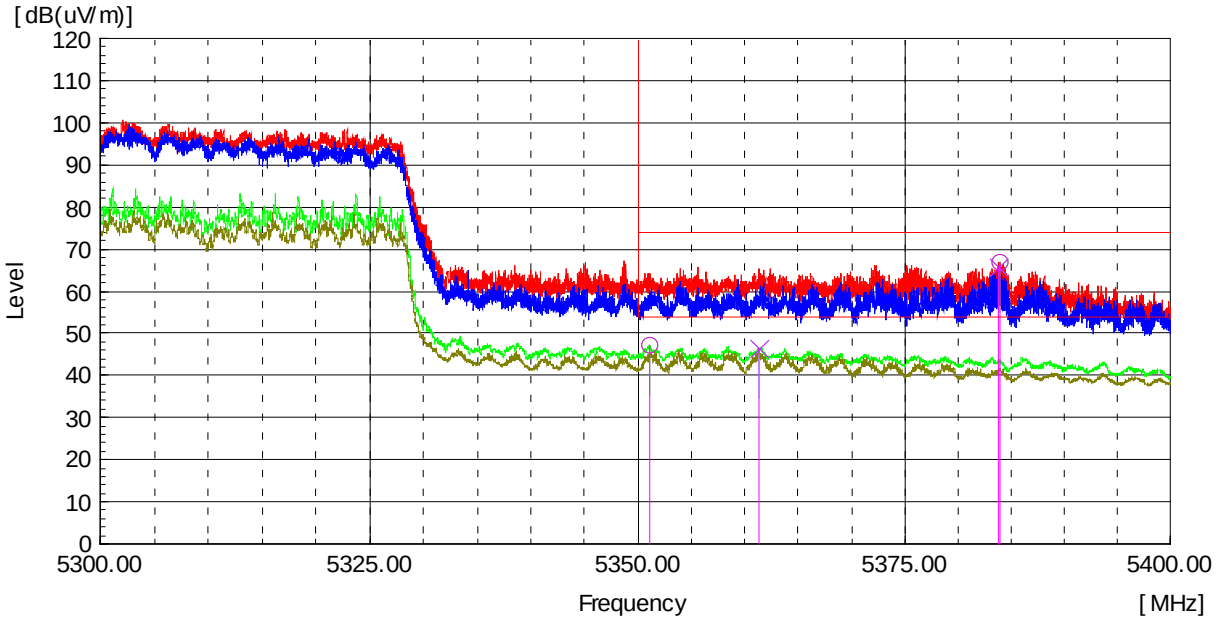
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 210 MHz
Channel :	42



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 149.95	H	65.3	-----	1.6	-----	66.9	-----	74.0	-----	7.1	-----
5 149.38	H	-----	44.9	1.6	0.6	-----	47.1	-----	54.0	-----	6.9
5 147.96	V	61.3	-----	1.6	-----	62.9	-----	74.0	-----	11.1	-----
5 145.31	V	-----	41.1	1.6	0.6	-----	43.3	-----	54.0	-----	10.7

Radiated Restricted Band Edge Plot

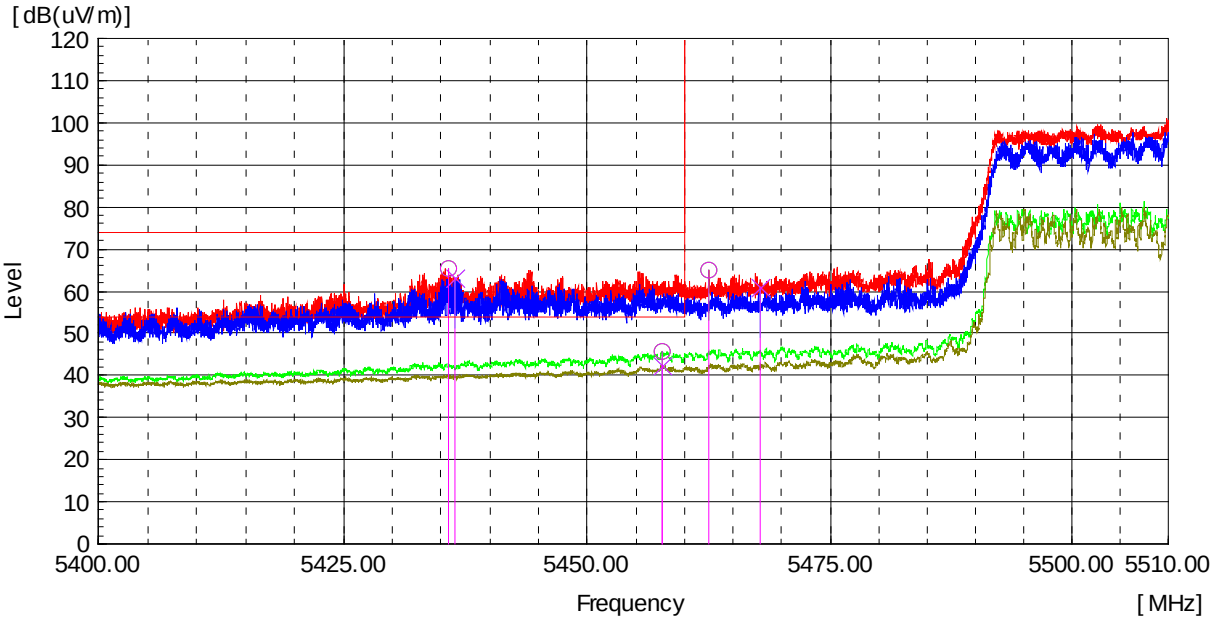
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 290 MHz
Channel :	58



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 383.95	H	65.1	-----	1.9	-----	67.0	-----	74.0	-----	7.0	-----
5 351.09	H	-----	45.4	1.7	0.6	-----	47.7	-----	54.0	-----	6.3
5 383.74	V	63.9	-----	1.9	-----	65.8	-----	74.0	-----	8.2	-----
5 361.29	V	-----	44.6	1.7	0.6	-----	46.9	-----	54.0	-----	7.1

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 530 MHz
Channel :	106

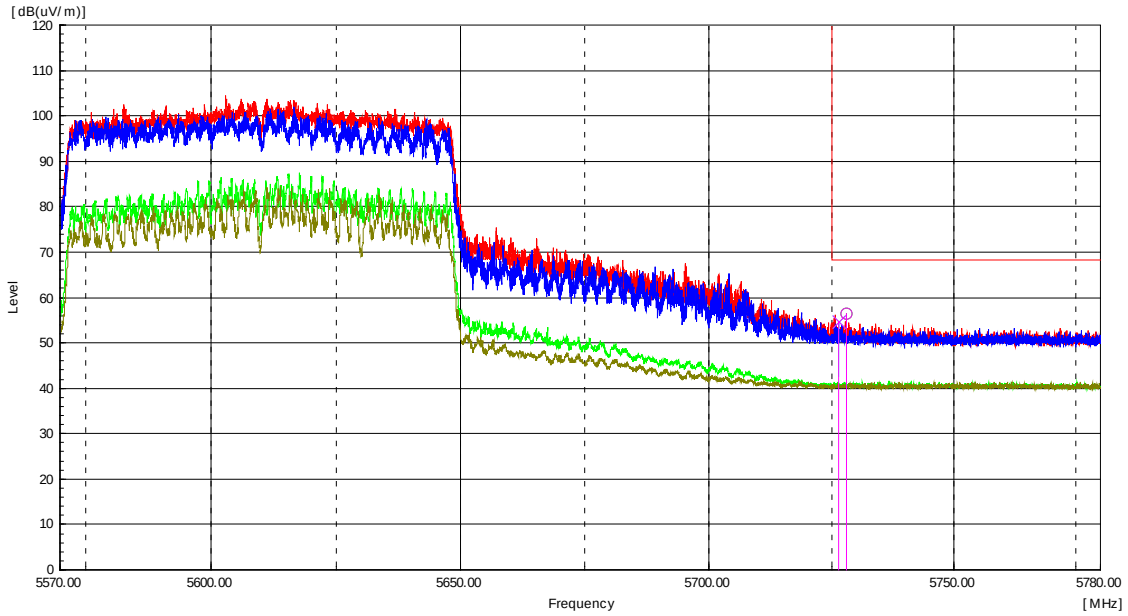


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 435.82	H	63.7	-----	1.8	-----	65.5	-----	74.0	-----	8.5	-----
5 457.65	H	-----	44.0	1.7	0.6	-----	46.3	-----	54.0	-----	7.7
5 436.45	V	61.2	-----	1.8	-----	63.0	-----	74.0	-----	11.0	-----
5 457.71	V	-----	40.6	1.7	0.6	-----	42.9	-----	54.0	-----	11.1
5 462.47	H	63.3	-----	1.7	-----	65.0	-----	68.2	-----	3.2	-----
5 467.77	V	59.2	-----	1.7	-----	60.9	-----	68.2	-----	7.3	-----

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 610 MHz
Channel :	122

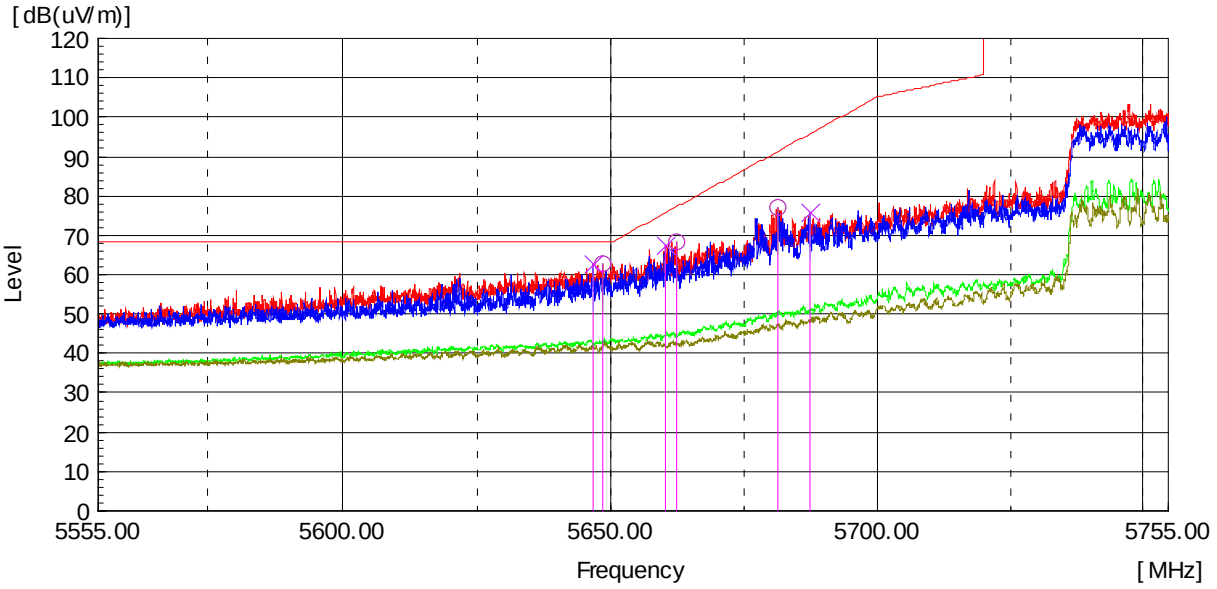


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 728.05	H	54.3	-----	2.1	-----	56.4	-----	68.2	-----	11.8	-----
5 726.35	V	52.8	-----	2.0	-----	54.8	-----	68.2	-----	13.4	-----

Radiated Restricted Band Edge Plot

CTK Co., Ltd.
(Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea
Tel: +82-31-339-9970
Fax: +82-31-624-9501

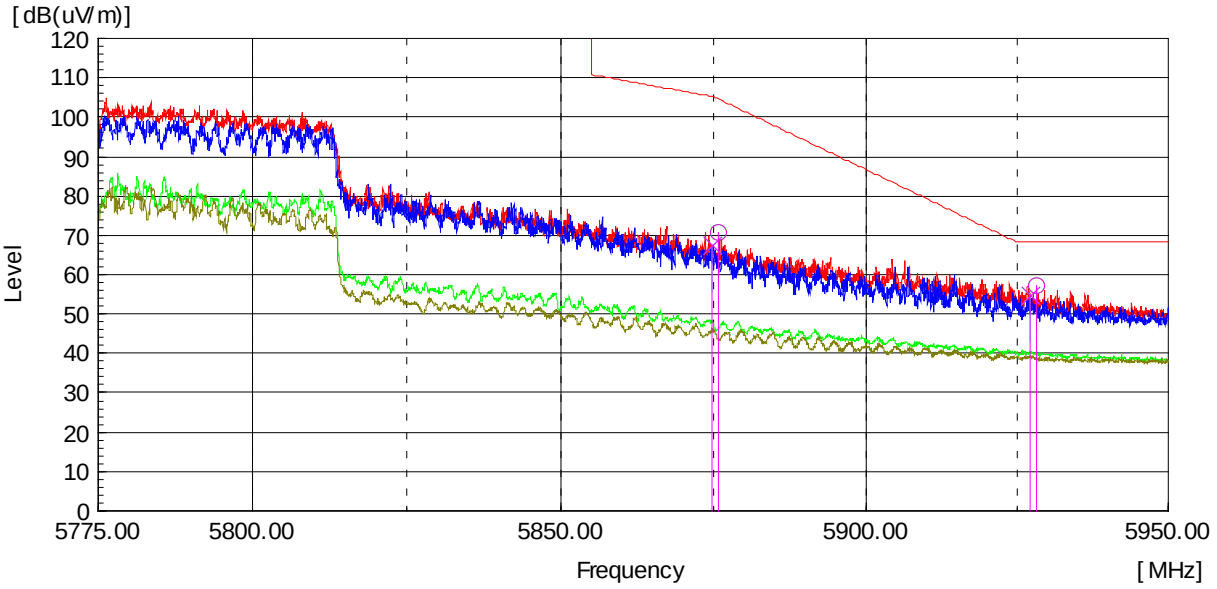
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 775 MHz
Channel :	155



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 646.54	V	60.7	-----	2.0	-----	62.7	-----	68.2	-----	5.5	-----
5 648.32	H	60.8	-----	2.0	-----	62.8	-----	68.2	-----	5.4	-----
5 660.07	V	65.6	-----	2.0	-----	67.6	-----	75.7	-----	8.1	-----
5 662.24	H	66.4	-----	2.0	-----	68.4	-----	77.3	-----	8.9	-----
5 681.25	H	75.0	-----	1.9	-----	76.9	-----	91.3	-----	14.4	-----
5 687.28	V	74.1	-----	1.9	-----	76.0	-----	95.8	-----	19.8	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 775 MHz
Channel :	155

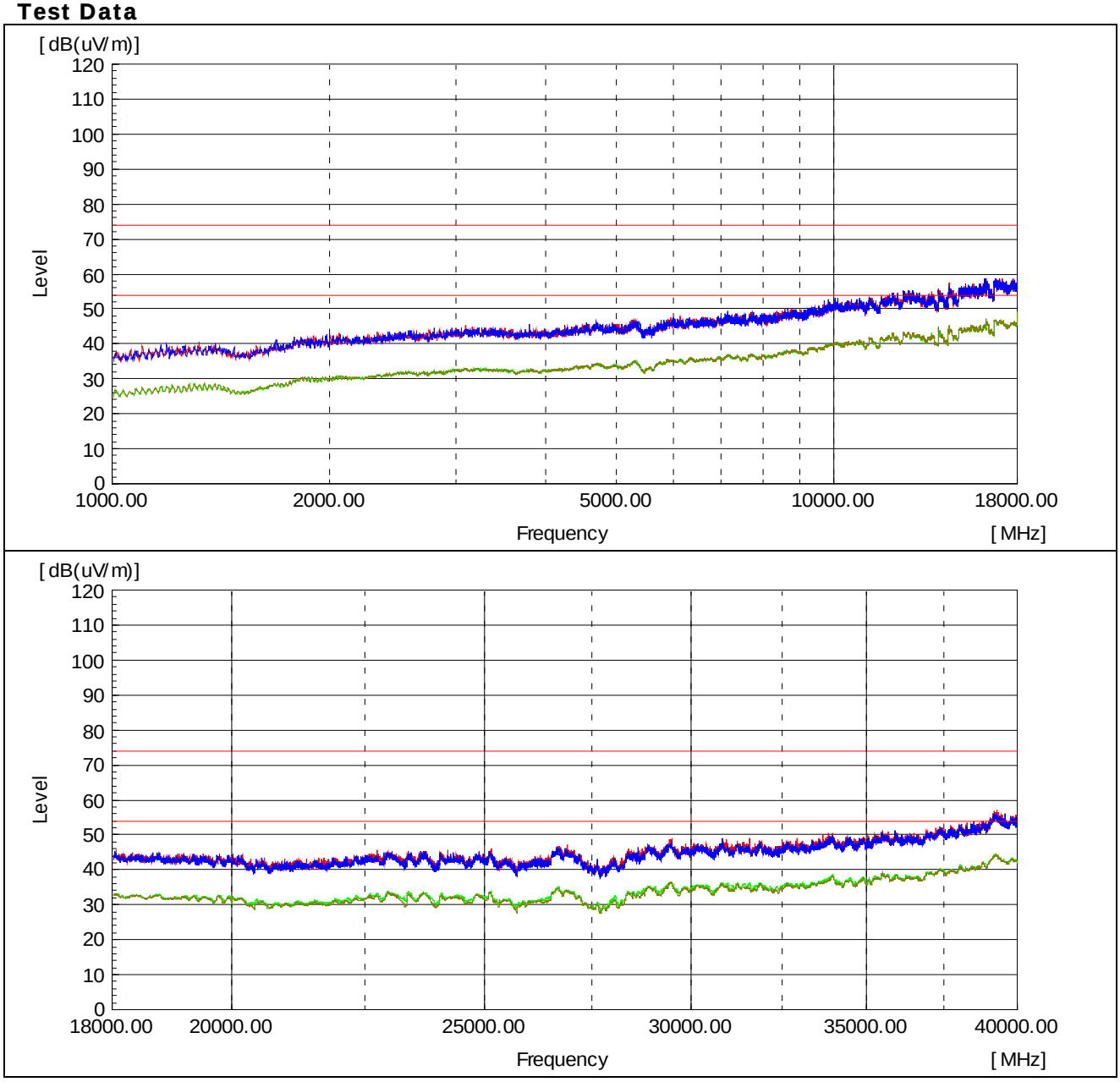


Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 927.24	V	51.8	-----	3.0	-----	54.8	-----	68.2	-----	13.4	-----
5 928.23	H	54.1	-----	3.0	-----	57.1	-----	68.2	-----	11.1	-----

Radiated Restricted Band Edge Plot

Test mode : Receiver (Worst Case)

Test Data



Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in lie-down positon(X axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
   Average Result = Reading + c.f(Correction factor) + Duty Cycle Factor
3. Correction factor = Antenna factor + Cable loss - Amp Gain

4.7 AC Conducted Emissions

Test Location
Shielded Room

Frequency Range of Measurement
150 kHz to 30 MHz

Instrument Settings
IF Band Width: 9 kHz

Test Procedures

ANSI C63.10-2013 - Section 6.2
RSS-Gen - Section 8.8

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.
Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit
- **15.207(a)**

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average**
0.15 ~ 0.5	66 to 56*	56 to 46*
0.5 ~ 5	56	46
5 ~ 30	60	50

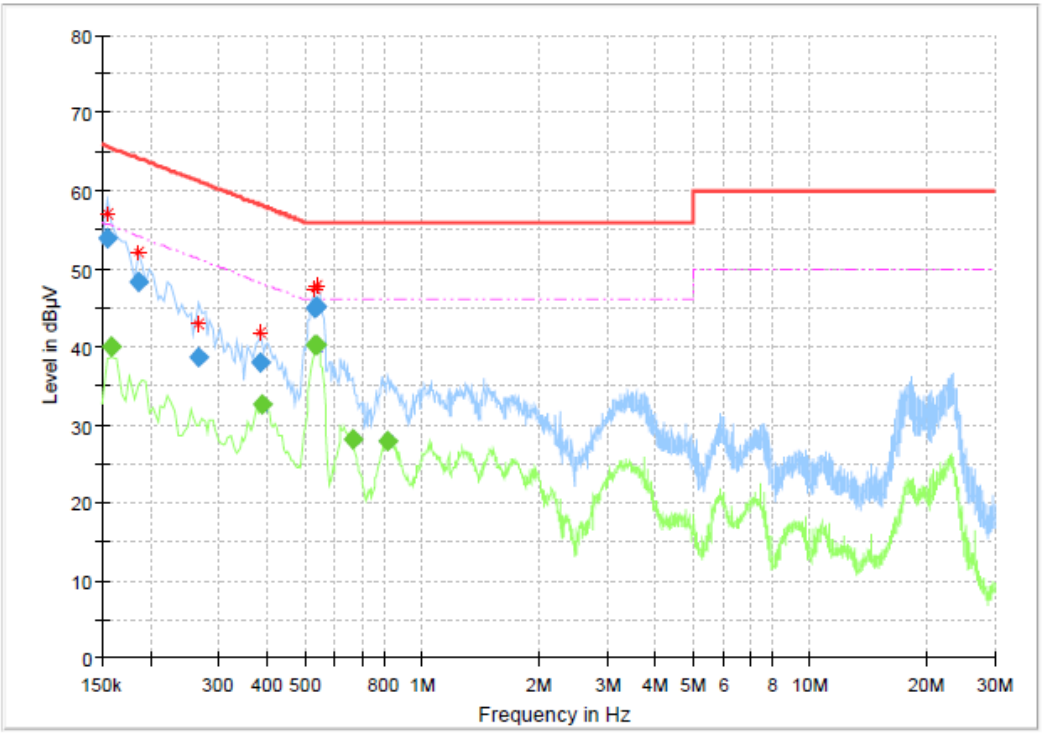
* The level decreases linearly with the logarithm of the frequency.
** A linear average detector is required.

Test Results

The requirements are:
☒ Complies

Test Data

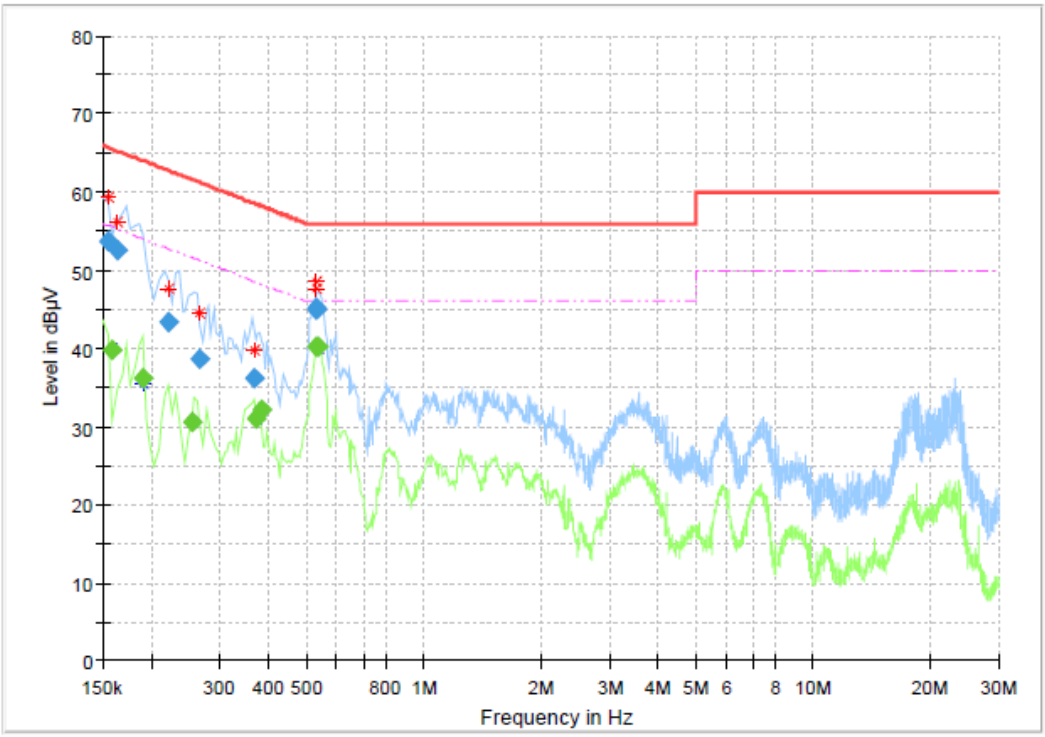
[LINE]



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	53.85	---	65.75	11.90	3000.0	9.000	L1	ON	9.7
0.159000	---	39.95	55.52	15.57	3000.0	9.000	L1	ON	9.7
0.186000	48.36	---	64.21	15.85	3000.0	9.000	L1	ON	9.9
0.267000	38.74	---	61.21	22.47	3000.0	9.000	L1	ON	9.7
0.384000	38.07	---	58.19	20.12	3000.0	9.000	L1	ON	9.9
0.388500	---	32.52	48.10	15.58	3000.0	9.000	L1	ON	9.9
0.532500	---	40.13	46.00	5.87	3000.0	9.000	L1	ON	9.9
0.532500	45.04	---	56.00	10.96	3000.0	9.000	L1	ON	9.9
0.537000	---	40.14	46.00	5.86	3000.0	9.000	L1	ON	9.9
0.537000	45.06	---	56.00	10.94	3000.0	9.000	L1	ON	9.9
0.663000	---	28.01	46.00	17.99	3000.0	9.000	L1	ON	9.8
0.820500	---	27.87	46.00	18.13	3000.0	9.000	L1	ON	9.8

[NEUTRAL]



Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154500	53.76	---	65.75	11.99	3000.0	9.000	N	ON	9.9
0.159000	---	39.74	55.52	15.78	3000.0	9.000	N	ON	9.9
0.163500	52.49	---	65.28	12.80	3000.0	9.000	N	ON	9.9
0.190500	---	36.09	54.02	17.92	3000.0	9.000	N	ON	10.0
0.222000	43.35	---	62.74	19.39	3000.0	9.000	N	ON	9.9
0.253500	---	30.52	51.64	21.12	3000.0	9.000	N	ON	9.8
0.267000	38.67	---	61.21	22.54	3000.0	9.000	N	ON	9.8
0.366000	36.12	---	58.59	22.47	3000.0	9.000	N	ON	10.0
0.370500	---	31.05	48.49	17.44	3000.0	9.000	N	ON	10.0
0.384000	---	32.22	48.19	15.98	3000.0	9.000	N	ON	10.0
0.528000	44.91	---	56.00	11.09	3000.0	9.000	N	ON	10.1
0.532500	---	40.19	46.00	5.81	3000.0	9.000	N	ON	10.1
0.532500	45.06	---	56.00	10.94	3000.0	9.000	N	ON	10.1
0.537000	---	40.24	46.00	5.76	3000.0	9.000	N	ON	10.1

APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY46471102	2022-01-13	2023-01-13
2	Signal Analyzer	Agilent	N9020A	MY50200096	2022-01-07	2023-01-07
3	Signal Generator	Rohde & Schwarz	SMB100A	175528	2022-03-25	2023-03-25
4	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2021-10-20	2022-10-20
5	BILOG ANTENNA	TESEQ	CBL6111D	58490	2021-03-03	2023-03-03
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-126	2022-05-11	2024-05-11
7	ATTENUATOR	PASTERNACK	PE7047-6	NONE	2022-02-22	2023-02-22
8	6dB Attenuator	BIRD	5W 6dB	1744	2021-11-18	2022-11-18
9	AMPLIFIER	SONOMA	310	291721	2022-01-21	2023-01-21
10	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2022-01-11	2023-01-11
11	Preamplifier	Agilent	8449B	3008A01504	2021-12-17	2022-12-17
12	Double Ridged Guide Antenna	ETS-Lindgren	3117	00154525	2021-10-21	2022-10-21
13	Horn Antenna	SCHWARZBECK	BBHA9170	00967	2022-05-18	2023-05-18
14	Low Noise Amplifier	TESTEK	TK-PA1840H	200115-L	2022-05-11	2023-05-11
15	Band Reject Filter	Micro Tronics	BRM50716	G184	2022-01-07	2023-01-07
16	LISN	Rohde & Schwarz	ENV216	102324	2022-03-23	2023-03-23
17	EMI Test Receiver	Rohde & Schwarz	ESR7	101088	2022-03-23	2023-03-23
18	Temp&Humi Chamber	ESPEC CORP.	SH-241	92000872	2022-01-21	2023-01-21
19	Signal Analyzer	Rohde & Schwarz	FSV-30	100925	2022-01-07	2023-01-07
20	DC Power Supply	Agilent	E3632A	MY40009327	2022-04-18	2023-04-18

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable (Conducted)	Junkosha Inc.	MWX221	1802S135	2022-04-20
2	RF Cable (Conducted)	Junkosha Inc.	MWX221	1802S136	2022-04-20
3	RF Cable (Line Conducted)	Canare Corporation	L-5D2W	N/A	2022-04-21
4	RF Cable (9kHZ-30MHz Radiated)	HUBER+SUHNER	NA	NA	2022-04-16
5	RF Cable (9kHZ-1GHz Below Radiated)	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2022-04-16
6	RF Cable (30MHz-1GHz Below Radiated)	HUBER+SUHNER	SUCOFLEX 104	N/A	2022-04-16
7	RF Cable (1GHz-18GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY2374/2	2022-04-16
8	RF Cable (1GHz-40GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	MY4728/2	2022-04-16
9	RF Cable (18GHz-40GHz Radiated)	HUBER+SUHNER	SUCOFLEX 102	803010/2	2022-04-16

-END-