

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 0 °C and +40 °C (Declaration by the Manufacturer). The temperature was incremented by 10 °C 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.

Temperature (°C)	0	10	20	30	40
Frequency	Measured Frequency Error (kHz)				
5 180 MHz	52.267	25.475	14.761	1.734	-5.981
5 200 MHz	44.704	32.514	1.017	4.544	-1.481
5 240 MHz	38.569	24.916	-0.672	-4.283	-4.666
5 260 MHz	50.731	40.519	22.557	17.620	8.669
5 300 MHz	49.859	33.093	12.014	12.060	12.433
5 320 MHz	49.169	26.496	8.960	-0.369	5.281
5 500 MHz	43.863	27.560	0.151	2.374	0.669
5 600 MHz	49.997	28.360	14.349	3.585	5.671
5 720 MHz	54.103	29.535	18.637	1.511	2.340
5 745 MHz	31.265	2.470	-7.507	-19.996	-17.945
5 785 MHz	35.976	19.897	-2.102	-9.215	-7.377
5 825 MHz	47.665	30.967	20.891	9.704	7.669

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

- 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 \geq RBW
c) Detector = CISPR Quasi-peak
d) Sweep time = auto couple

- Peak

Frequency Range = 1 GHz ~ 40 GHz

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ RBW
c) Detector = Peak
d) Sweep time = auto
e) Trace mode = max hold

- Average (duty cycle $\geq 98\%$)

Frequency Range = 1 GHz ~ 40 GHz

- a) RBW = 1 MHz
b) VBW $\geq 3 \times$ 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 (dB)
802.11a	0.21
802.11n_HT20	0.21
802.11n_HT40	0.42
802.11ac_VHT20	0.00
802.11ac_VHT40	0.11
802.11ac_VHT80	0.25

Limit

- 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.

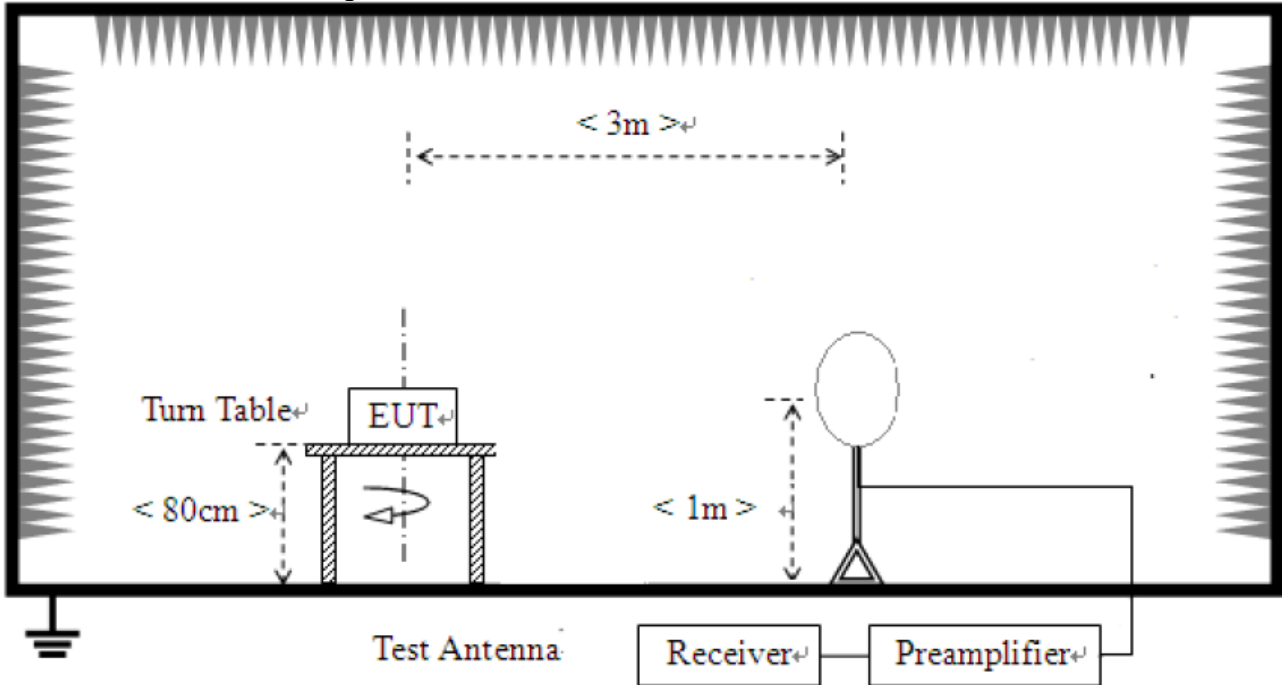
- 15.407, KDB 789033

E.I.R.P -27 dBm/MHz

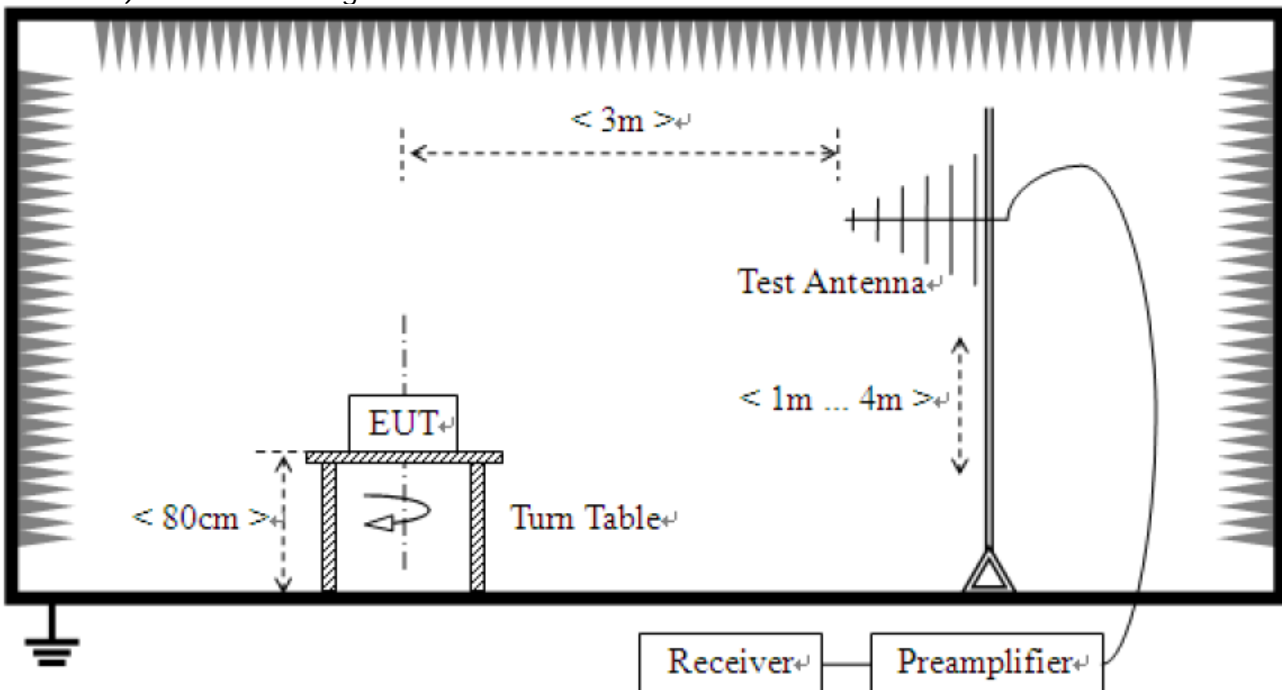
$E[\text{dBuV/m}] = \text{EIRP}[\text{dBm}] + 95.2$, for $d = 3\text{m}$

Test Setup:

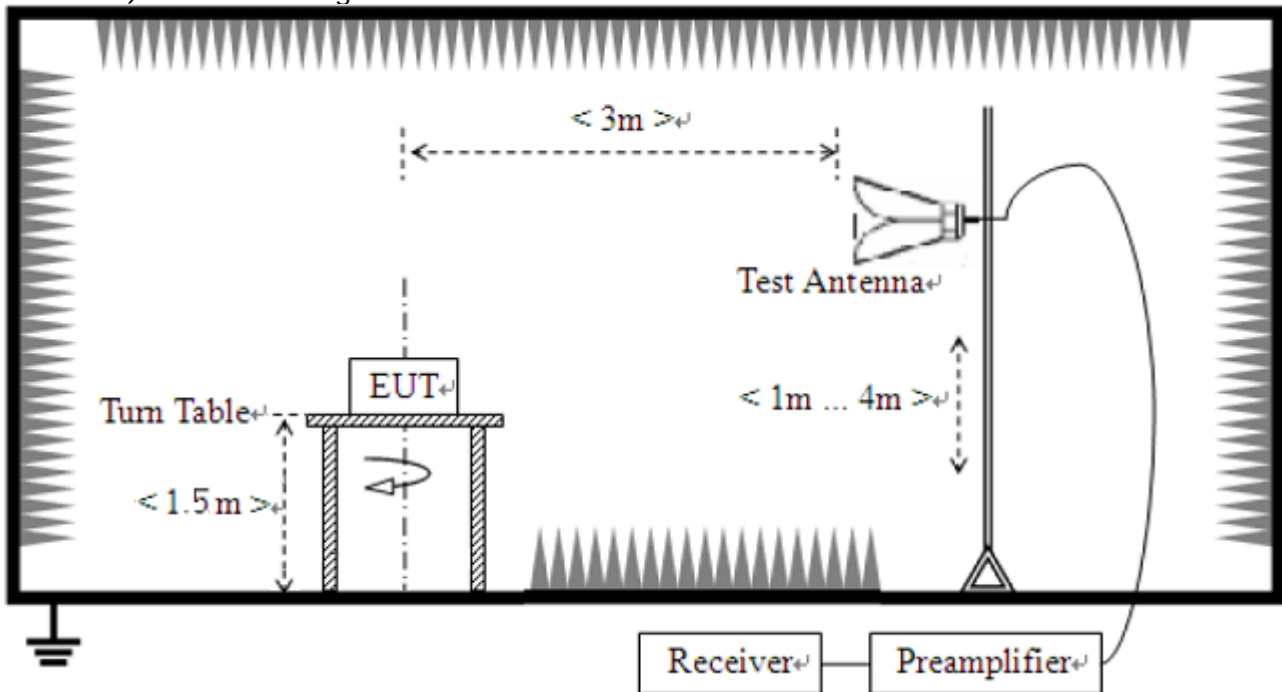
- 1) For field strength of emissions from 9 kHz to 30 MHz



- 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 + ANT3 + ANT4 (MIMO)
- 802.11n : ANT1 + ANT2 + ANT3 + ANT4 (MIMO)
- 802.11ac : ANT1 + ANT2 + ANT3 + ANT4 (MIMO)

So the results are only attached worst cases.

Test Results

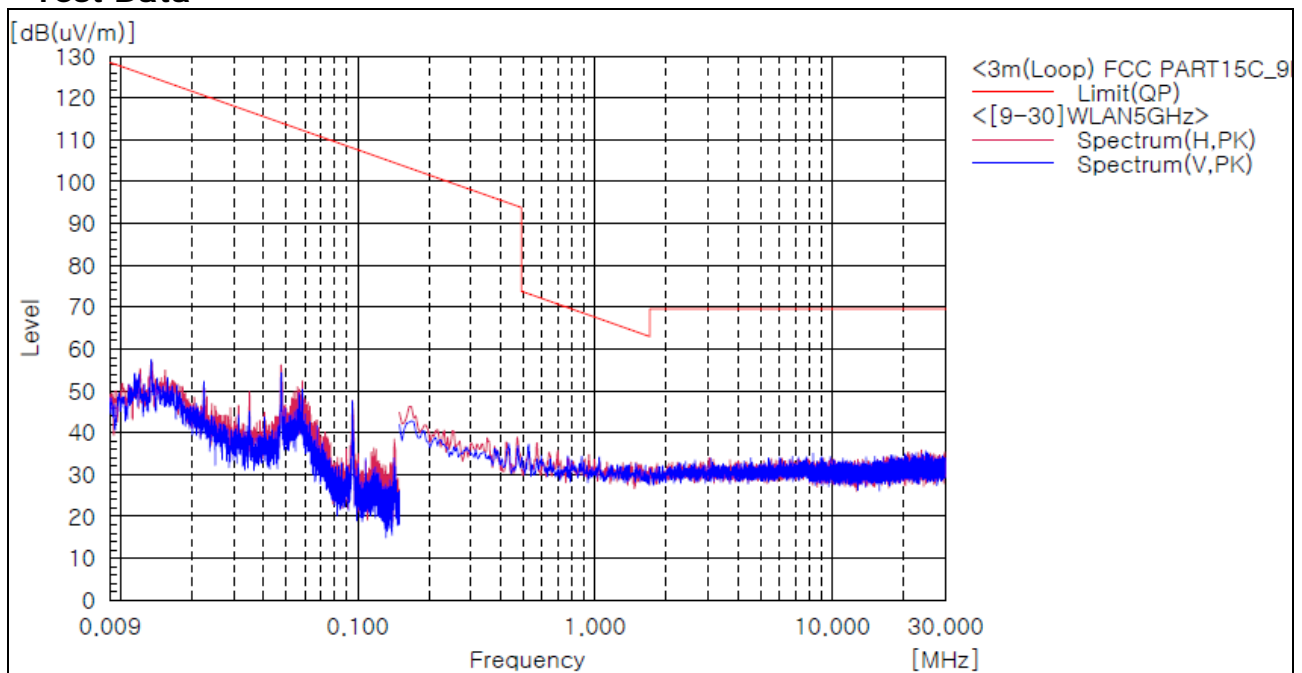
1) 9 kHz to 30 MHz

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]
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The emissions 9 kHz to 30 MHz were 20 dB lower than the limit.

Remark :

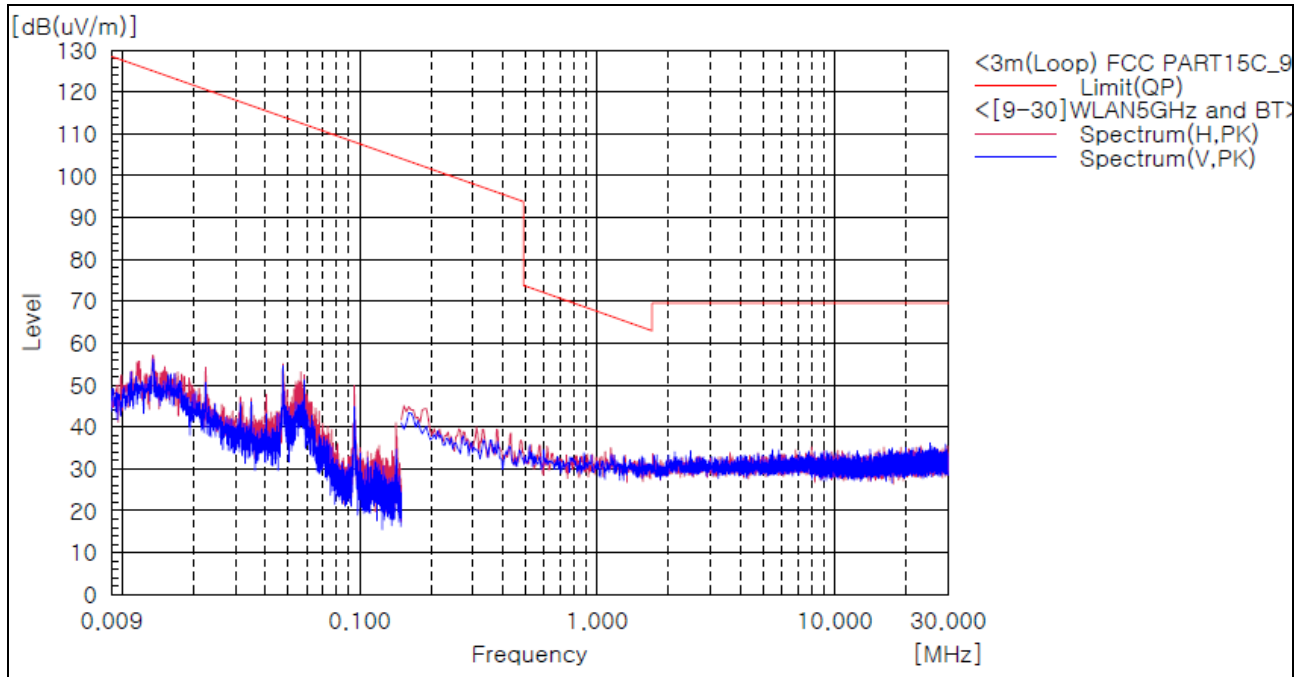
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor +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

Test mode : Transmitter (simultaneous transmissions BDR + RF4CE+ WLAN 5GHz)

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]
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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 position(X,Y axis). The worst emission was found in stand-up position(Z 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.

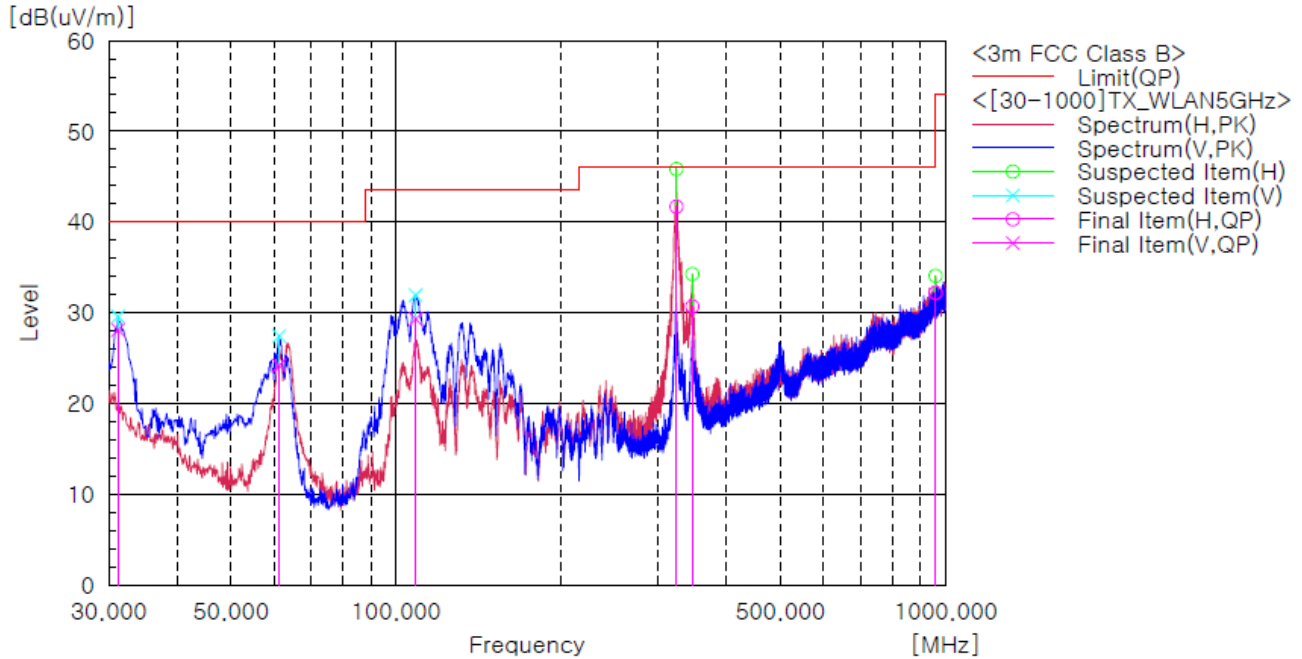
2) 30 MHz to 1 GHz

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	31.213	V	34.6	-6.5	28.1	40.0	11.9	101.0	61.0
2	61.283	V	42.7	-18.5	24.2	40.0	15.8	101.0	84.0
3	108.570	V	42.0	-12.7	29.3	43.5	14.2	101.0	322.0
4	323.910	H	49.8	-8.1	41.7	46.0	4.3	101.0	21.0
5	346.341	H	38.0	-7.3	30.7	46.0	15.3	101.0	21.0
6	959.988	H	24.6	7.6	32.2	46.0	13.8	101.0	70.0

Remark :

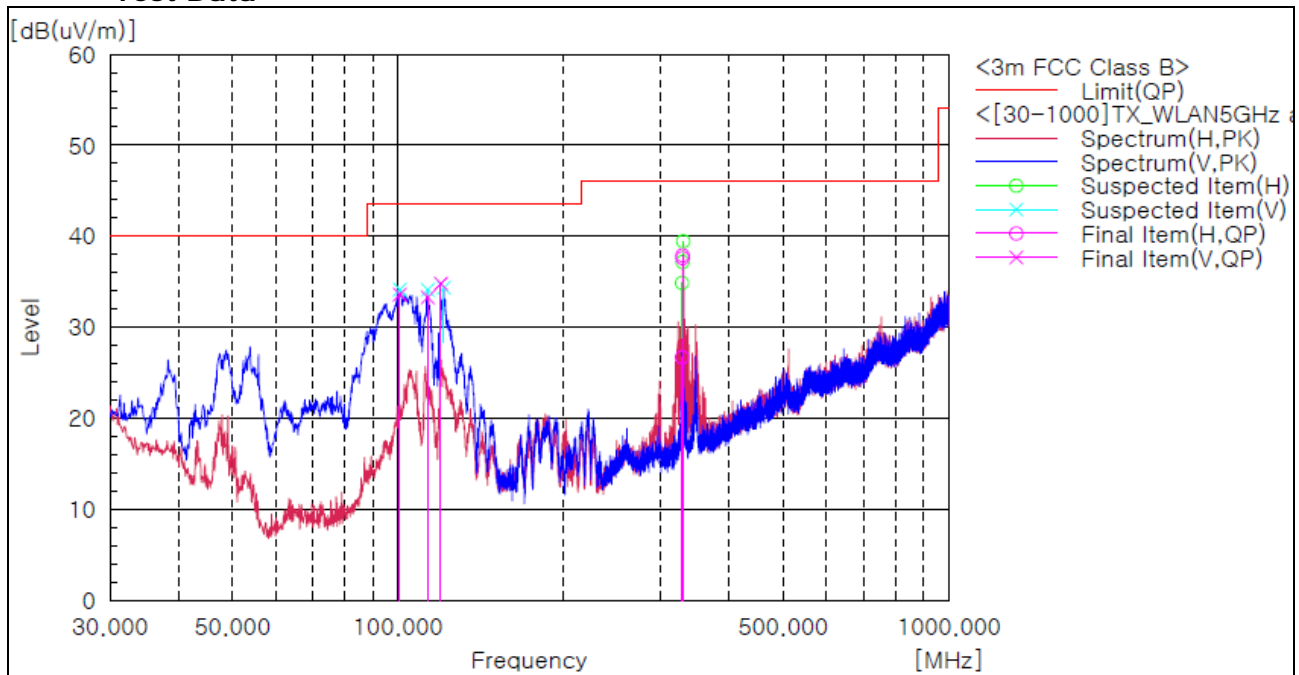
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor +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

Test mode : Transmitter (simultaneous transmissions BDR + RF4CE+ WLAN 5GHz)

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	100.810	V	47.1	-13.5	33.6	43.5	9.9	101.0	277.0
2	113.299	V	46.2	-12.9	33.3	43.5	10.2	101.0	277.0
3	119.684	V	47.0	-12.2	34.8	43.5	8.7	101.0	306.0
4	328.033	H	34.6	-7.9	26.7	46.0	19.3	101.0	194.0
5	328.881	H	45.5	-7.9	37.6	46.0	8.4	101.0	194.0
6	328.747	H	45.8	-7.9	37.9	46.0	8.1	101.0	334.0

Remark :

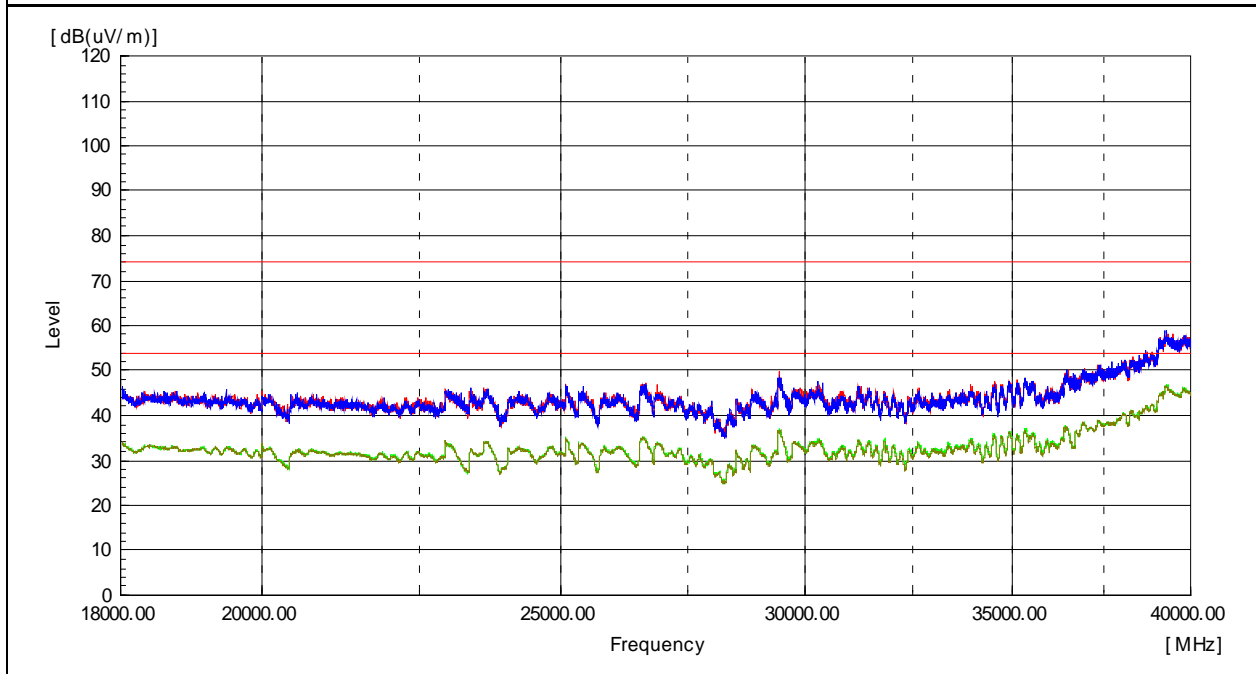
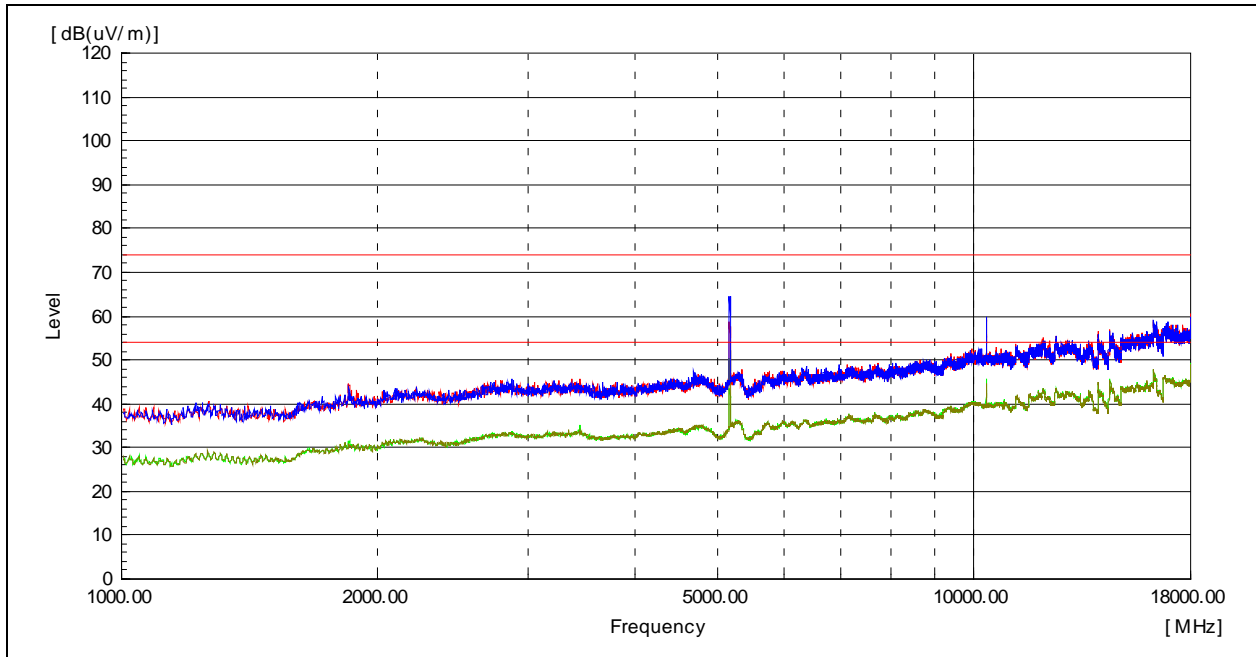
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Result = Reading + c.f(Correction factor)
3. Correction factor = Antenna factor +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

3) above 1 GHz

The requirements are:

Complies

Test Data





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 Page (197) / (250) Pages

Test mode : Transmitter, 802.11a

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]
3 453.25	H	49.2	-----	-0.8	-----	48.4	-----	74.0	-----	25.6	-----
3 453.39	H	-----	40.5	-0.8	0.2	-----	39.9	-----	54.0	-----	14.1
3 453.20	V	48.4	-----	-0.8	-----	47.6	-----	74.0	-----	26.4	-----
3 453.35	V	-----	38.9	-0.8	0.2	-----	38.3	-----	54.0	-----	15.7
10 359.03	H	56.7	-----	6.7	-----	63.4	-----	74.0	-----	10.6	-----
10 364.26	H	-----	42.2	6.7	0.2	-----	49.1	-----	54.0	-----	4.9
10 358.52	V	55.6	-----	6.7	-----	62.3	-----	74.0	-----	11.7	-----
10 359.87	V	-----	38.9	6.7	0.2	-----	45.8	-----	54.0	-----	8.2

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]
3 466.81	H	49.1	-----	-0.8	-----	48.3	-----	74.0	-----	25.7	-----
3 466.63	H	-----	40.2	-0.8	0.2	-----	39.6	-----	54.0	-----	14.4
3 466.81	V	48.2	-----	-0.8	-----	47.4	-----	74.0	-----	26.6	-----
3 466.63	V	-----	38.9	-0.8	0.2	-----	38.3	-----	54.0	-----	15.7
10 398.01	H	57.4	-----	6.7	-----	64.1	-----	74.0	-----	9.9	-----
10 403.58	H	-----	41.2	6.7	0.2	-----	48.1	-----	54.0	-----	5.9
10 399.19	V	56.8	-----	6.7	-----	63.5	-----	74.0	-----	10.5	-----
10 400.03	V	-----	39.3	6.7	0.2	-----	46.2	-----	54.0	-----	7.8



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Report No.:
 CTK-2021-00840
 Page (198) / (250) Pages

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]
3 493.30	H	49.6	-----	-0.9	-----	48.7	-----	74.0	-----	25.3	-----
3 493.29	H	-----	39.0	-0.9	0.2	-----	38.3	-----	54.0	-----	15.7
3 493.39	V	48.3	-----	-0.9	-----	47.4	-----	74.0	-----	26.6	-----
3 493.37	V	-----	37.4	-0.9	0.2	-----	36.7	-----	54.0	-----	17.3
10 480.36	H	55.1	-----	6.9	-----	62.0	-----	74.0	-----	12.0	-----
10 483.22	H	-----	39.0	6.9	0.2	-----	46.1	-----	54.0	-----	7.9
10 477.66	V	54.7	-----	6.9	-----	61.6	-----	74.0	-----	12.4	-----
10 479.34	V	-----	39.8	6.9	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]
3 506.57	H	47.8	-----	-0.9	-----	46.9	-----	74.0	-----	27.1	-----
3 506.63	H	-----	38.1	-0.9	0.2	-----	37.4	-----	54.0	-----	16.6
3 506.56	V	46.9	-----	-0.9	-----	46.0	-----	74.0	-----	28.0	-----
3 506.68	V	-----	36.5	-0.9	0.2	-----	35.8	-----	54.0	-----	18.2
10 525.41	H	54.7	-----	7.0	-----	61.7	-----	74.0	-----	12.3	-----
10 524.23	H	-----	39.3	7.0	0.2	-----	46.5	-----	54.0	-----	7.5
10 520.69	V	53.8	-----	7.0	-----	60.8	-----	74.0	-----	13.2	-----
10 527.10	V	-----	38.6	7.0	0.2	-----	45.8	-----	54.0	-----	8.2

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]
3 533.72	H	47.5	-----	-0.9	-----	46.6	-----	74.0	-----	27.4	-----
3 533.25	H	-----	36.8	-0.9	0.2	-----	36.1	-----	54.0	-----	17.9
3 533.45	V	46.3	-----	-0.9	-----	45.4	-----	74.0	-----	28.6	-----
3 533.46	V	-----	35.1	-0.9	0.2	-----	34.4	-----	54.0	-----	19.6
10 598.48	H	51.8	-----	7.2	-----	59.0	-----	74.0	-----	15.0	-----
10 603.88	H	-----	38.6	7.2	0.2	-----	46.0	-----	54.0	-----	8.0
10 597.64	V	52.0	-----	7.2	-----	59.2	-----	74.0	-----	14.8	-----
10 597.97	V	-----	39.0	7.2	0.2	-----	46.4	-----	54.0	-----	7.6

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]
3 546.74	H	46.5	-----	-0.9	-----	45.6	-----	74.0	-----	28.4	-----
3 546.64	H	-----	36.0	-0.9	0.2	-----	35.3	-----	54.0	-----	18.7
3 546.41	V	46.5	-----	-0.9	-----	45.6	-----	74.0	-----	28.4	-----
3 546.63	V	-----	34.4	-0.9	0.2	-----	33.7	-----	54.0	-----	20.3
10 638.98	H	50.7	-----	7.2	-----	57.9	-----	74.0	-----	16.1	-----
10 643.54	H	-----	38.1	7.2	0.2	-----	45.5	-----	54.0	-----	8.5
10 647.42	V	53.3	-----	7.2	-----	60.5	-----	74.0	-----	13.5	-----
10 647.42	V	-----	38.9	7.2	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]
10 995.89	H	47.8	-----	7.6	-----	55.4	-----	74.0	-----	18.6	-----
11 000.11	H	-----	35.4	7.6	0.2	-----	43.2	-----	54.0	-----	10.8
10 995.04	V	48.9	-----	7.6	-----	56.5	-----	74.0	-----	17.5	-----
10 997.91	V	-----	35.5	7.6	0.2	-----	43.3	-----	54.0	-----	10.7

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

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

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]
11 486.61	H	47.2	-----	8.5	-----	55.7	-----	74.0	-----	18.3	-----
11 492.86	H	-----	34.6	8.5	0.2	-----	43.3	-----	54.0	-----	10.7
11 485.77	V	47.1	-----	8.5	-----	55.6	-----	74.0	-----	18.4	-----
11 443.08	V	-----	34.0	8.8	0.2	-----	43.0	-----	54.0	-----	11.0



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Report No.:
 CTK-2021-00840
 Page (200) / (250) Pages

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

Ch.165(5 825 MHz)

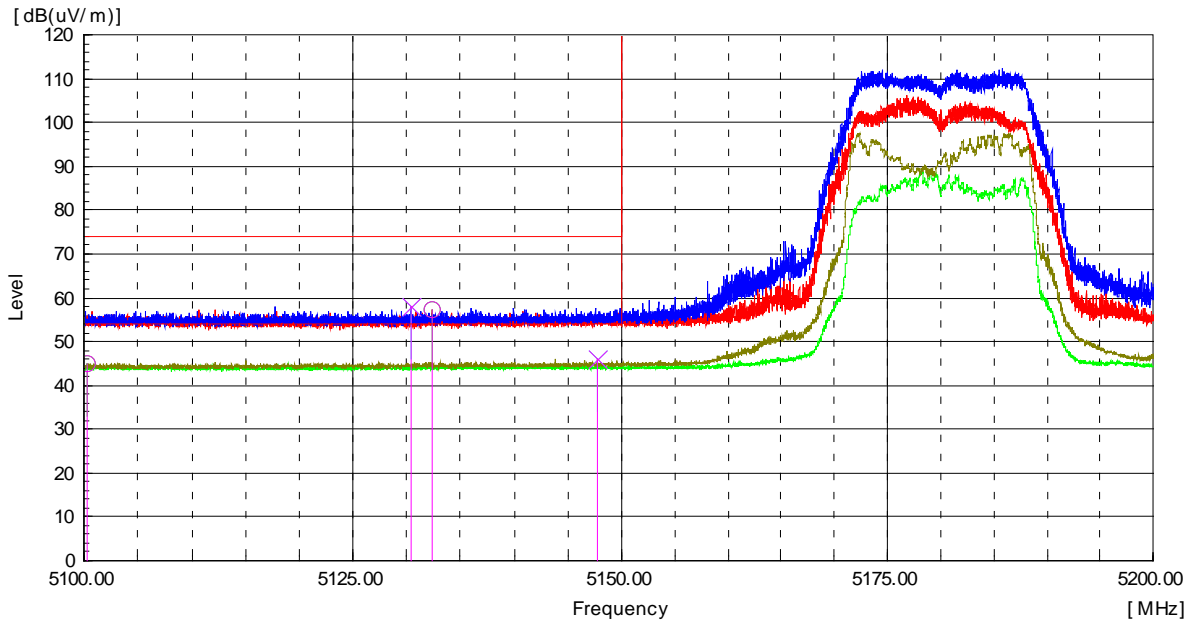
Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
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The emissions above 1 GHz were 20 dB lower than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

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z 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

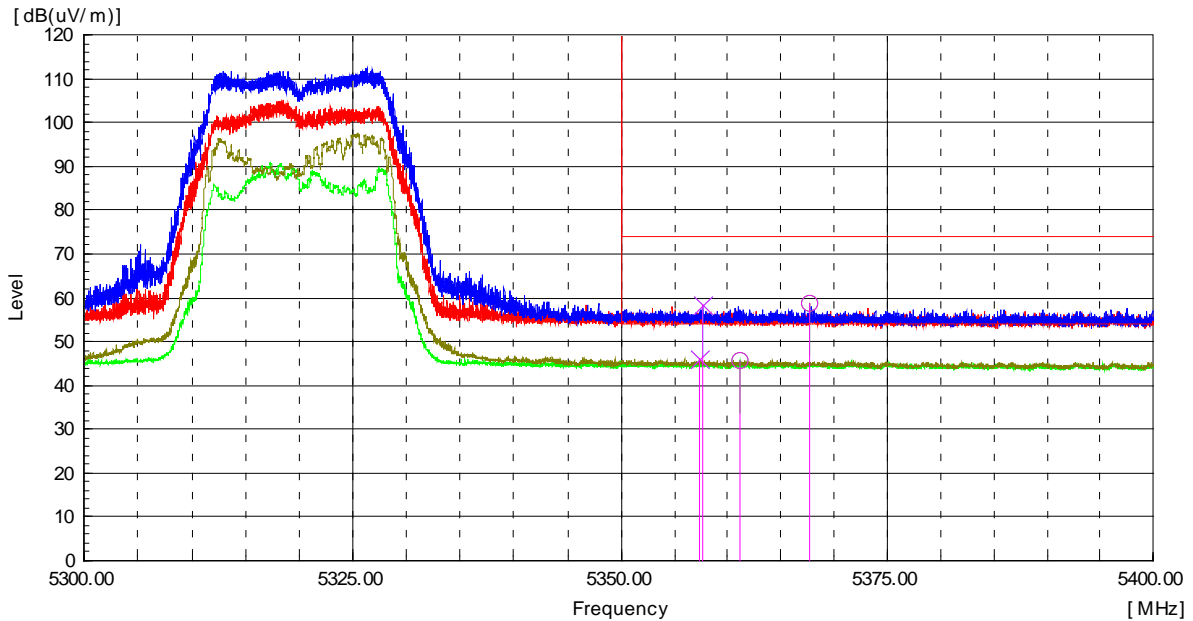
Worst Case Mode :	802.11a
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



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]
5 132.40	H	56.0	-----	1.4	-----	57.4	-----	74.0	-----	16.6	-----
5 100.24	H	-----	43.7	1.3	0.2	-----	45.2	-----	54.0	-----	8.8
5 130.35	V	56.6	-----	1.4	-----	58.0	-----	74.0	-----	16.0	-----
5 147.74	V	-----	44.7	1.4	0.2	-----	46.3	-----	54.0	-----	7.7

Radiated Restricted Band Edge Plot

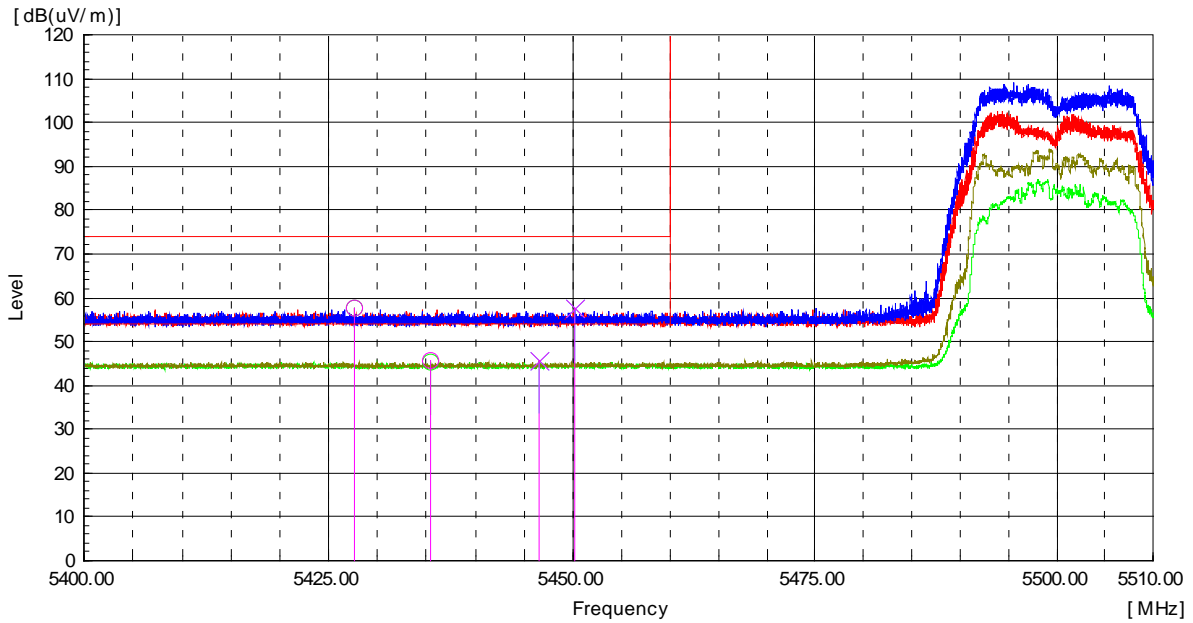
Worst Case Mode :	802.11a
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



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]
5 367.74	H	56.5	-----	2.1	-----	58.6	-----	74.0	-----	15.4	-----
5 361.08	H	-----	43.5	2.1	0.21	-----	45.8	-----	54.0	-----	8.2
5 357.69	V	56.1	-----	2.1	-----	58.2	-----	74.0	-----	15.8	-----
5 357.36	V	-----	44.0	2.1	0.21	-----	46.3	-----	54.0	-----	7.7

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a
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]
5 427.61	H	55.7	-----	2.0	-----	57.7	-----	74.0	-----	16.3	-----
5 435.39	H	-----	43.5	2.0	0.21	-----	45.7	-----	54.0	-----	8.3
5 450.17	V	55.7	-----	2.0	-----	57.7	-----	74.0	-----	16.3	-----
5 446.54	V	-----	43.6	2.0	0.21	-----	45.8	-----	54.0	-----	8.2

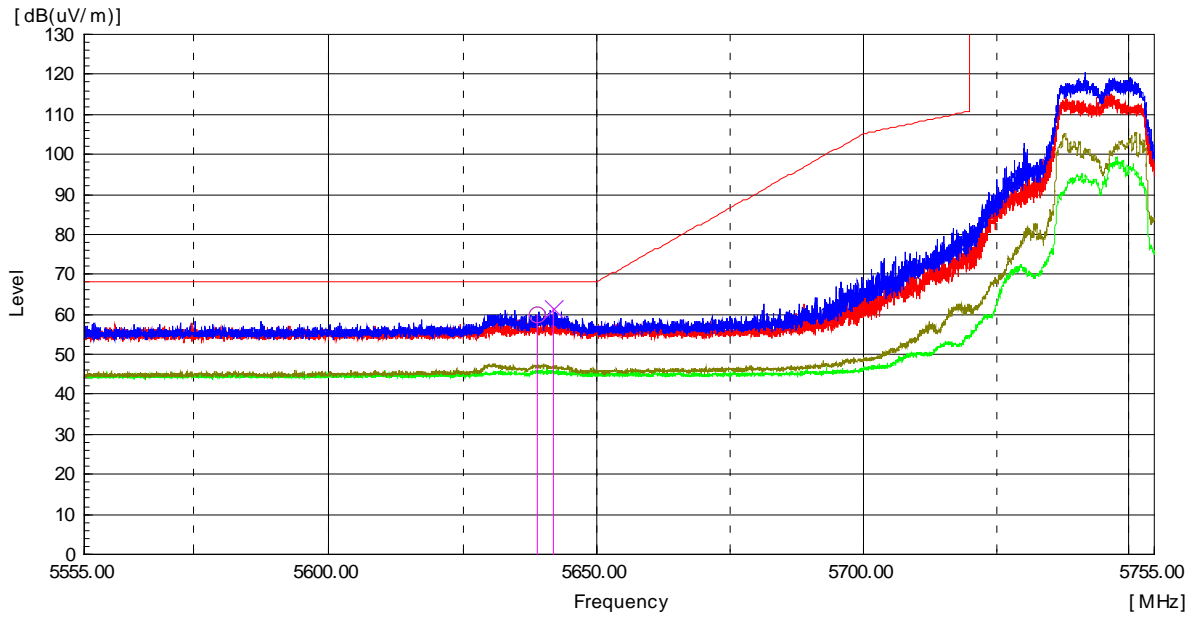
Radiated Restricted Band Edge Plot



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Report No.:
 CTK-2021-00840
 Page (204) / (250) Pages

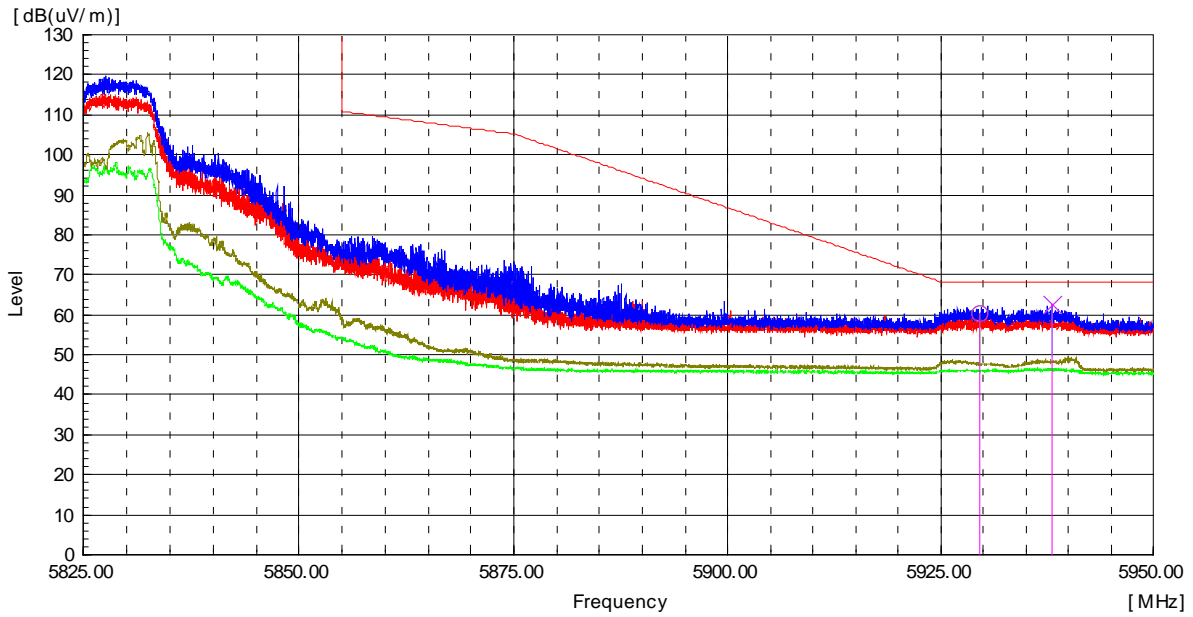
Worst Case Mode :	802.11a
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



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]
5 638.78	H	57.4	-----	2.6	-----	60.0	-----	68.2	-----	8.2	-----
5 641.80	V	58.9	-----	2.7	-----	61.6	-----	68.2	-----	6.6	-----

Radiated Restricted Band Edge Plot

Worst Case Mode :	802.11a
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]
5 929.59	H	56.9	-----	3.3	-----	60.2	-----	68.2	-----	8.0	-----
5 938.00	V	59.5	-----	3.3	-----	62.8	-----	68.2	-----	5.4	-----

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]
3 453.27	H	49.8	-----	-0.8	-----	49.0	-----	74.0	-----	25.0	-----
3 453.30	H	-----	40.5	-0.8	0.2	-----	39.9	-----	54.0	-----	14.1
3 453.50	V	48.8	-----	-0.8	-----	48.0	-----	74.0	-----	26.0	-----
3 453.32	V	-----	39.2	-0.8	0.2	-----	38.6	-----	54.0	-----	15.4
10 359.36	H	56.5	-----	6.7	-----	63.2	-----	74.0	-----	10.8	-----
10 362.40	H	-----	41.5	6.7	0.2	-----	48.4	-----	54.0	-----	5.6
10 353.79	V	57.6	-----	6.6	-----	64.2	-----	74.0	-----	9.8	-----
10 359.03	V	-----	41.5	6.7	0.2	-----	48.4	-----	54.0	-----	5.6

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]
3 466.71	H	49.5	-----	-0.8	-----	48.7	-----	74.0	-----	25.3	-----
3 466.61	H	-----	40.2	-0.8	0.2	-----	39.6	-----	54.0	-----	14.4
3 466.58	V	48.0	-----	-0.8	-----	47.2	-----	74.0	-----	26.8	-----
3 466.70	V	-----	38.9	-0.8	0.2	-----	38.3	-----	54.0	-----	15.7
10 404.25	H	57.7	-----	6.7	-----	64.4	-----	74.0	-----	9.6	-----
10 402.73	H	-----	41.8	6.7	0.2	-----	48.7	-----	54.0	-----	5.3
10 401.55	V	58.4	-----	6.7	-----	65.1	-----	74.0	-----	8.9	-----
10 398.85	V	-----	41.2	6.7	0.2	-----	48.1	-----	54.0	-----	5.9



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Report No.:
 CTK-2021-00840
 Page (207) / (250) Pages

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]
3 493.06	H	49.2	-----	-0.9	-----	48.3	-----	74.0	-----	25.7	-----
3 493.29	H	-----	39.2	-0.9	0.2	-----	38.5	-----	54.0	-----	15.5
3 493.52	V	47.4	-----	-0.9	-----	46.5	-----	74.0	-----	27.5	-----
3 493.27	V	-----	37.2	-0.9	0.2	-----	36.5	-----	54.0	-----	17.5
10 479.34	H	55.2	-----	6.9	-----	62.1	-----	74.0	-----	11.9	-----
10 482.21	H	-----	41.2	6.9	0.2	-----	48.3	-----	54.0	-----	5.7
10 478.84	V	54.1	-----	6.9	-----	61.0	-----	74.0	-----	13.0	-----
10 478.50	V	-----	40.7	6.9	0.2	-----	47.8	-----	54.0	-----	6.2

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]
3 506.34	H	47.8	-----	-0.9	-----	46.9	-----	74.0	-----	27.1	-----
3 506.60	H	-----	38.0	-0.9	0.2	-----	37.3	-----	54.0	-----	16.7
3 506.57	V	46.9	-----	-0.9	-----	46.0	-----	74.0	-----	28.0	-----
3 506.70	V	-----	36.3	-0.9	0.2	-----	35.6	-----	54.0	-----	18.4
10 519.51	H	55.5	-----	7.0	-----	62.5	-----	74.0	-----	11.5	-----
10 522.21	H	-----	39.9	7.0	0.2	-----	47.1	-----	54.0	-----	6.9
10 524.23	V	53.9	-----	7.0	-----	60.9	-----	74.0	-----	13.1	-----
10 523.56	V	-----	40.2	7.0	0.2	-----	47.4	-----	54.0	-----	6.6

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]
3 533.50	H	47.2	-----	-0.9	-----	46.3	-----	74.0	-----	27.7	-----
3 533.32	H	-----	36.8	-0.9	0.2	-----	36.1	-----	54.0	-----	17.9
3 532.52	V	46.4	-----	-0.9	-----	45.5	-----	74.0	-----	28.5	-----
3 533.25	V	-----	35.0	-0.9	0.2	-----	34.3	-----	54.0	-----	19.7
10 599.49	H	55.8	-----	7.2	-----	63.0	-----	74.0	-----	11.0	-----
10 602.36	H	-----	39.0	7.2	0.2	-----	46.4	-----	54.0	-----	7.6
10 597.30	V	54.3	-----	7.2	-----	61.5	-----	74.0	-----	12.5	-----
10 598.48	V	-----	41.6	7.2	0.2	-----	49.0	-----	54.0	-----	5.0

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]
3 546.40	H	46.7	-----	-0.9	-----	45.8	-----	74.0	-----	28.2	-----
3 546.67	H	-----	35.9	-0.9	0.2	-----	35.2	-----	54.0	-----	18.8
3 546.64	V	46.3	-----	-0.9	-----	45.4	-----	74.0	-----	28.6	-----
3 546.70	V	-----	34.3	-0.9	0.2	-----	33.6	-----	54.0	-----	20.4
10 637.29	H	55.6	-----	7.2	-----	62.8	-----	74.0	-----	11.2	-----
10 642.19	H	-----	39.0	7.2	0.2	-----	46.4	-----	54.0	-----	7.6
10 639.83	V	53.3	-----	7.2	-----	60.5	-----	74.0	-----	13.5	-----
10 638.81	V	-----	40.3	7.2	0.2	-----	47.7	-----	54.0	-----	6.3

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]
10 998.59	H	48.4	-----	7.6	-----	56.0	-----	74.0	-----	18.0	-----
11 001.96	H	-----	36.8	7.6	0.2	-----	44.6	-----	54.0	-----	9.4
11 000.95	V	48.7	-----	7.6	-----	56.3	-----	74.0	-----	17.7	-----
11 005.51	V	-----	35.5	7.6	0.2	-----	43.3	-----	54.0	-----	10.7

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

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]
-----------------	-----	-------------------	-------------------	---------------	------------------------	---------------------	---------------------	---------------------	---------------------	----------------	----------------

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

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]
11 484.42	H	48.0	-----	8.5	-----	56.5	-----	74.0	-----	17.5	-----
11 496.23	H	-----	34.6	8.5	0.2	-----	43.3	-----	54.0	-----	10.7
11 487.96	V	46.7	-----	8.5	-----	55.2	-----	74.0	-----	18.8	-----
11 488.64	V	-----	35.4	8.5	0.2	-----	44.1	-----	54.0	-----	9.9



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Report No.:
 CTK-2021-00840
 Page (209) / (250) Pages

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]
-----------------	-----	-------------------	-------------------	---------------	------------------------	---------------------	---------------------	---------------------	---------------------	----------------	----------------

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

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]
-----------------	-----	-------------------	-------------------	---------------	------------------------	---------------------	---------------------	---------------------	---------------------	----------------	----------------

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

Remarks

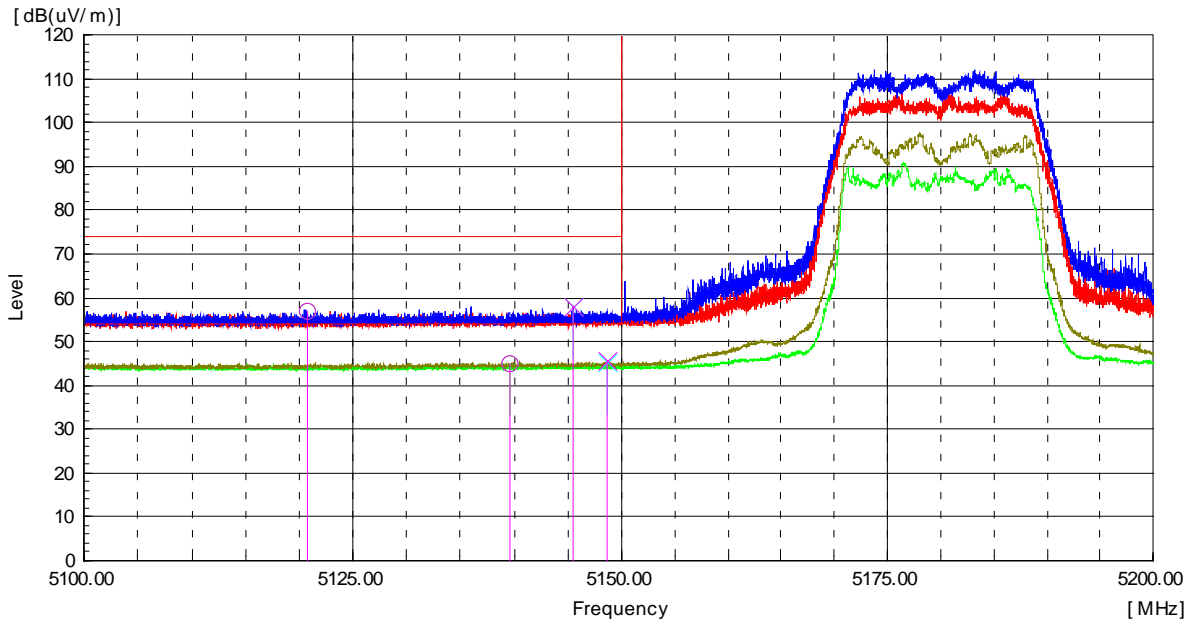
1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
2. Peak Result = Reading + c.f(Correction factor)
 Average Result = Reading + c.f(Correction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



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Report No.:
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 Page (210) / (250) Pages

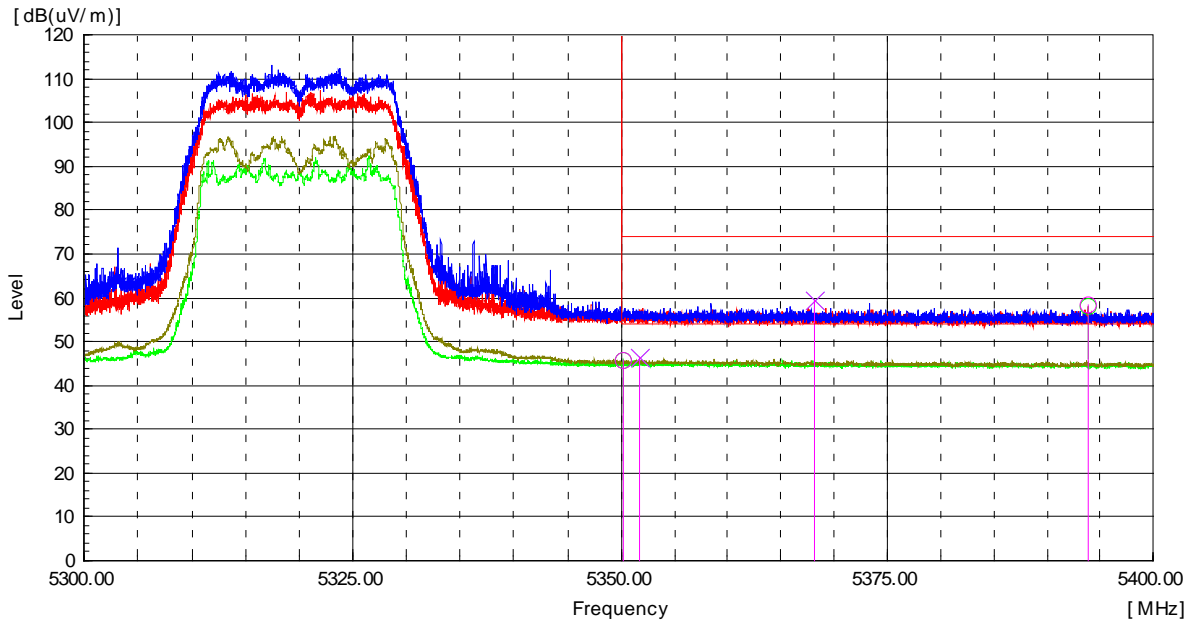
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



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]
5 120.75	H	55.5	-----	1.3	-----	56.8	-----	74.0	-----	17.2	-----
5 139.68	H	-----	43.6	1.4	0.2	-----	45.2	-----	54.0	-----	8.8
5 145.53	V	56.6	-----	1.4	-----	58.0	-----	74.0	-----	16.0	-----
5 148.64	V	-----	44.1	1.4	0.2	-----	45.7	-----	54.0	-----	8.3

Radiated Restricted Band Edge Plot

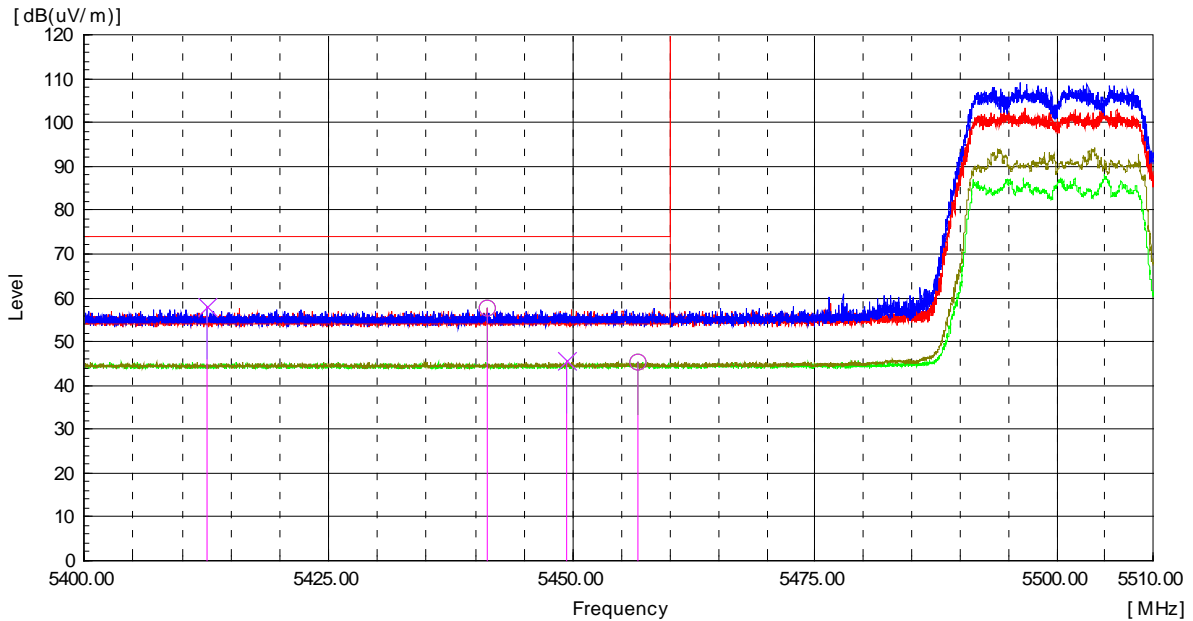
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



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]
5 393.83	H	56.1	-----	2.1	-----	58.2	-----	74.0	-----	15.8	-----
5 350.15	H	-----	43.7	2.1	0.2	-----	46.0	-----	54.0	-----	8.0
5 368.18	V	57.5	-----	2.1	-----	59.6	-----	74.0	-----	14.4	-----
5 351.76	V	-----	44.2	2.1	0.2	-----	46.5	-----	54.0	-----	7.5

Radiated Restricted Band Edge Plot

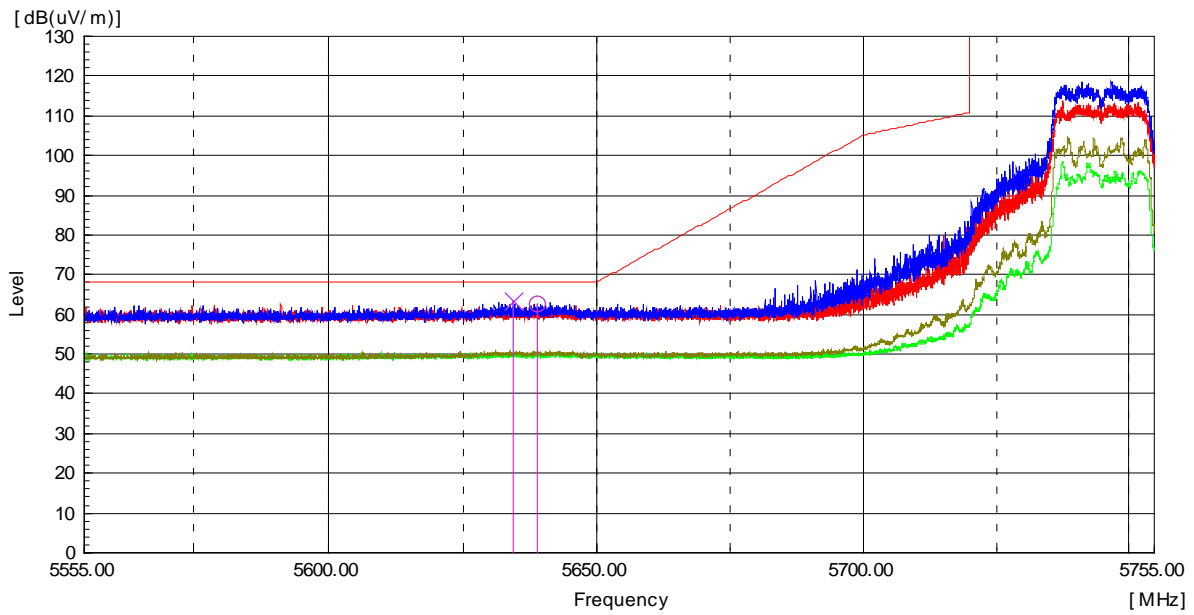
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



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]
5 441.24	H	55.6	-----	2.0	-----	57.6	-----	74.0	-----	16.4	-----
5 456.76	H	-----	43.4	2.0	0.2	-----	45.6	-----	54.0	-----	8.4
5 412.61	V	56.0	-----	2.1	-----	58.1	-----	74.0	-----	15.9	-----
5 449.43	V	-----	43.5	2.0	0.2	-----	45.7	-----	54.0	-----	8.3

Radiated Restricted Band Edge Plot

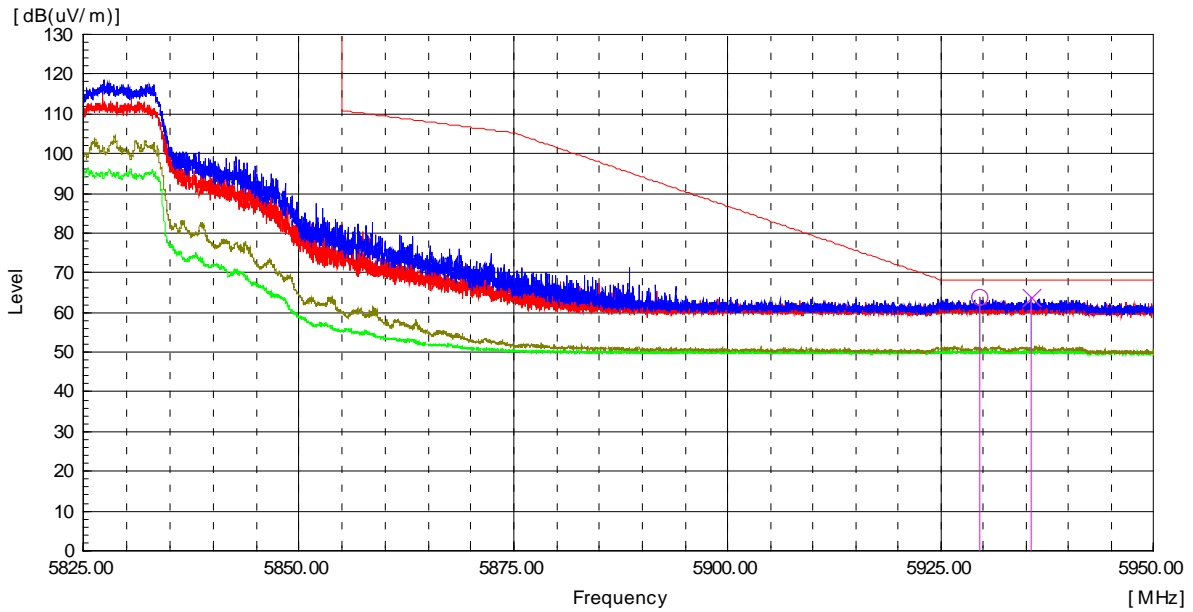
Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



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]
5 638.90	H	59.9	-----	2.6	-----	62.5	-----	68.2	-----	5.7	-----
5 634.45	V	60.8	-----	2.6	-----	63.4	-----	68.2	-----	4.8	-----

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]
5 929.52	H	60.4	-----	3.3	-----	63.7	-----	68.2	-----	4.5	-----
5 935.55	V	60.6	-----	3.3	-----	63.9	-----	68.2	-----	4.3	-----

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]
3 453.28	H	50.0	-----	-0.8	-----	49.2	-----	74.0	-----	24.8	-----
3 453.26	H	-----	41.7	-0.8	0.0	-----	40.9	-----	54.0	-----	13.1
3 453.32	V	49.3	-----	-0.8	-----	48.5	-----	74.0	-----	25.5	-----
3 453.30	V	-----	38.7	-0.8	0.0	-----	37.9	-----	54.0	-----	16.1
10 360.88	H	59.3	-----	6.7	-----	66.0	-----	74.0	-----	8.0	-----
10 362.23	H	-----	43.4	6.7	0.0	-----	50.1	-----	54.0	-----	3.9
10 364.93	V	58.1	-----	6.7	-----	64.8	-----	74.0	-----	9.2	-----
10 358.52	V	-----	42.0	6.7	0.0	-----	48.7	-----	54.0	-----	5.3

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]
3 466.51	H	49.6	-----	-0.8	-----	48.8	-----	74.0	-----	25.2	-----
3 466.65	H	-----	40.7	-0.8	0.0	-----	39.9	-----	54.0	-----	14.1
3 466.60	V	48.8	-----	-0.8	-----	48.0	-----	74.0	-----	26.0	-----
3 466.60	V	-----	39.3	-0.8	0.0	-----	38.5	-----	54.0	-----	15.5
10 399.36	H	57.3	-----	6.7	-----	64.0	-----	74.0	-----	10.0	-----
10 397.67	H	-----	42.6	6.7	0.0	-----	49.3	-----	54.0	-----	4.7
10 400.71	V	57.3	-----	6.7	-----	64.0	-----	74.0	-----	10.0	-----
10 399.02	V	-----	41.6	6.7	0.0	-----	48.3	-----	54.0	-----	5.7



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Report No.:
 CTK-2021-00840
 Page (216) / (250) Pages

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]
3 493.33	H	49.4	-----	-0.9	-----	48.5	-----	74.0	-----	25.5	-----
3 493.36	H	-----	39.7	-0.9	0.0	-----	38.8	-----	54.0	-----	15.2
3 493.36	V	48.2	-----	-0.9	-----	47.3	-----	74.0	-----	26.7	-----
3 493.28	V	-----	37.9	-0.9	0.0	-----	37.0	-----	54.0	-----	17.0
10 485.92	H	55.5	-----	6.9	-----	62.4	-----	74.0	-----	11.6	-----
10 477.83	H	-----	41.8	6.9	0.0	-----	48.7	-----	54.0	-----	5.3
10 475.13	V	55.6	-----	6.9	-----	62.5	-----	74.0	-----	11.5	-----
10 484.74	V	-----	41.4	6.9	0.0	-----	48.3	-----	54.0	-----	5.7

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]
3 506.48	H	48.2	-----	-0.9	-----	47.3	-----	74.0	-----	26.7	-----
3 506.71	H	-----	38.2	-0.9	0.0	-----	37.3	-----	54.0	-----	16.7
3 506.34	V	47.2	-----	-0.9	-----	46.3	-----	74.0	-----	27.7	-----
3 506.62	V	-----	36.2	-0.9	0.0	-----	35.3	-----	54.0	-----	18.7
10 525.41	H	55.6	-----	7.0	-----	62.6	-----	74.0	-----	11.4	-----
10 520.86	H	-----	42.5	7.0	0.0	-----	49.5	-----	54.0	-----	4.5
10 521.03	V	54.2	-----	7.0	-----	61.2	-----	74.0	-----	12.8	-----
10 523.22	V	-----	41.1	7.0	0.0	-----	48.1	-----	54.0	-----	5.9

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]
3 533.15	H	47.0	-----	-0.9	-----	46.1	-----	74.0	-----	27.9	-----
3 533.40	H	-----	37.0	-0.9	0.0	-----	36.1	-----	54.0	-----	17.9
3 534.40	V	46.5	-----	-0.9	-----	45.6	-----	74.0	-----	28.4	-----
3 533.41	V	-----	35.2	-0.9	0.0	-----	34.3	-----	54.0	-----	19.7
10 601.69	H	55.1	-----	7.2	-----	62.3	-----	74.0	-----	11.7	-----
10 601.86	H	-----	41.5	7.2	0.0	-----	48.7	-----	54.0	-----	5.3
10 597.81	V	54.3	-----	7.2	-----	61.5	-----	74.0	-----	12.5	-----
10 598.48	V	-----	41.0	7.2	0.0	-----	48.2	-----	54.0	-----	5.8



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]
3 546.54	H	45.8	-----	-0.9	-----	44.9	-----	74.0	-----	29.1	-----
3 546.63	H	-----	35.4	-0.9	0.0	-----	34.5	-----	54.0	-----	19.5
3 546.41	V	45.2	-----	-0.9	-----	44.3	-----	74.0	-----	29.7	-----
3 546.84	V	-----	33.8	-0.9	0.0	-----	32.9	-----	54.0	-----	21.1
10 639.15	H	54.6	-----	7.2	-----	61.8	-----	74.0	-----	12.2	-----
10 642.36	H	-----	41.2	7.2	0.0	-----	48.4	-----	54.0	-----	5.6
10 638.14	V	54.4	-----	7.2	-----	61.6	-----	74.0	-----	12.4	-----
10 638.98	V	-----	40.9	7.2	0.0	-----	48.1	-----	54.0	-----	5.9

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]
11 004.66	H	48.4	-----	7.6	-----	56.0	-----	74.0	-----	18.0	-----
10 996.90	H	-----	37.3	7.6	0.0	-----	44.9	-----	54.0	-----	9.1
11 008.04	V	48.2	-----	7.6	-----	55.8	-----	74.0	-----	18.2	-----
11 001.29	V	-----	35.9	7.6	0.0	-----	43.5	-----	54.0	-----	10.5

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

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

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



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Report No.:
 CTK-2021-00840
 Page (218) / (250) Pages

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

Ch.165(5 825 MHz)

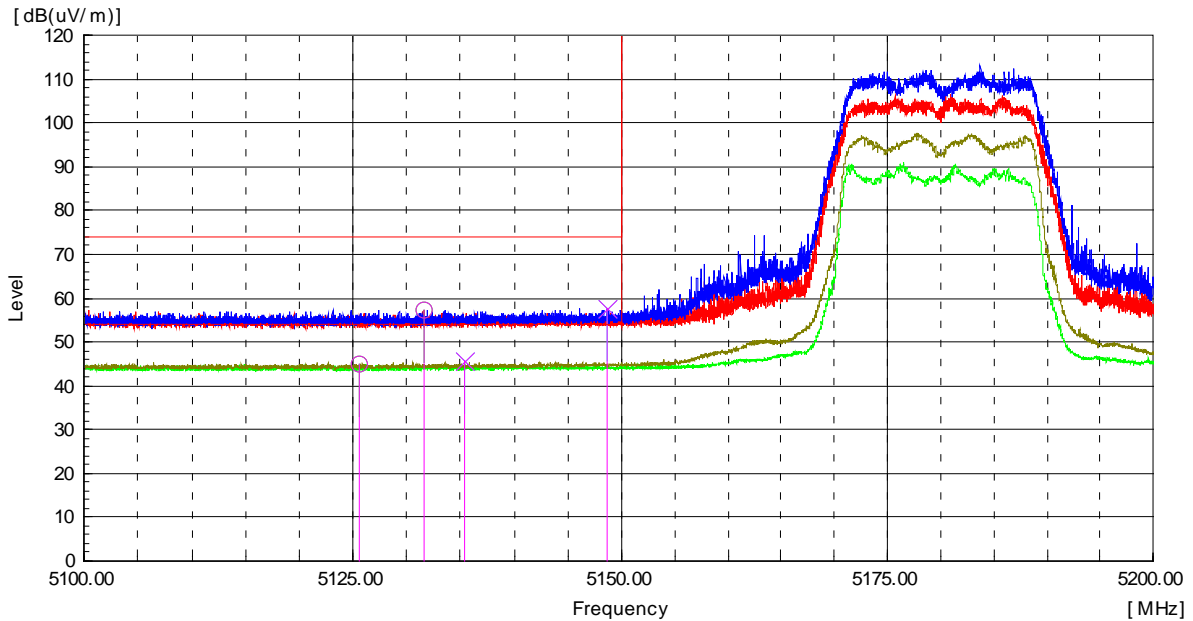
Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
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The emissions above 1 GHz were 20 dB lower than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

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z 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

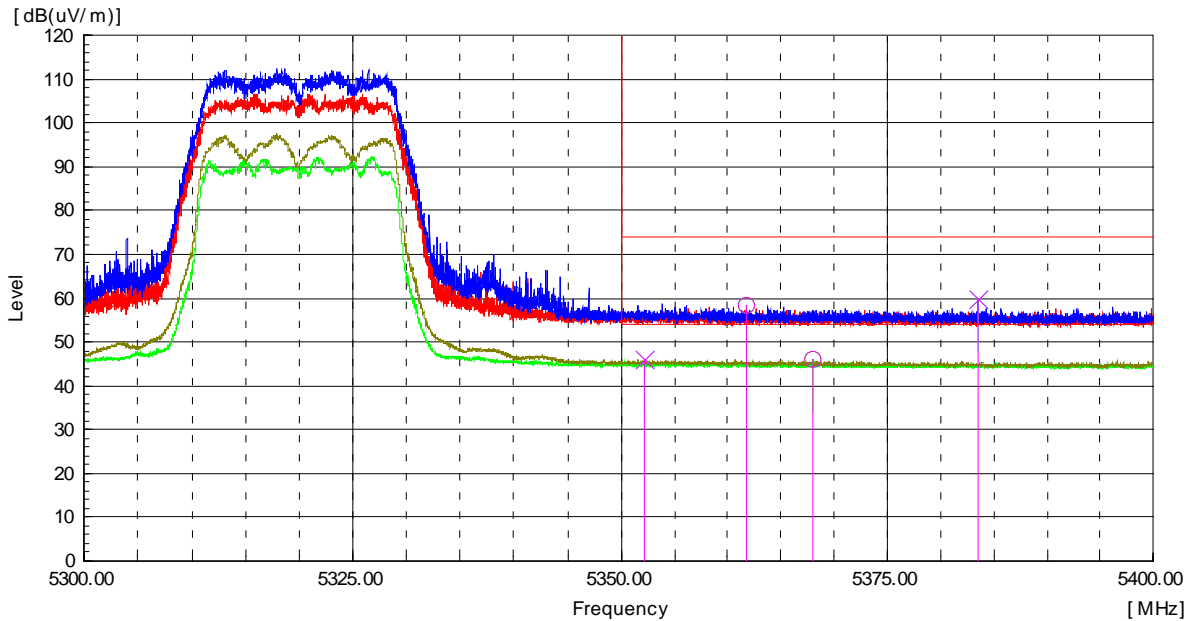
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



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]
5 131.61	H	55.9	-----	1.4	-----	57.3	-----	74.0	-----	16.7	-----
5 125.63	H	-----	43.6	1.3	0.0	-----	44.9	-----	54.0	-----	9.1
5 148.64	V	56.4	-----	1.4	-----	57.8	-----	74.0	-----	16.2	-----
5 135.35	V	-----	44.2	1.4	0.0	-----	45.6	-----	54.0	-----	8.4

Radiated Restricted Band Edge Plot

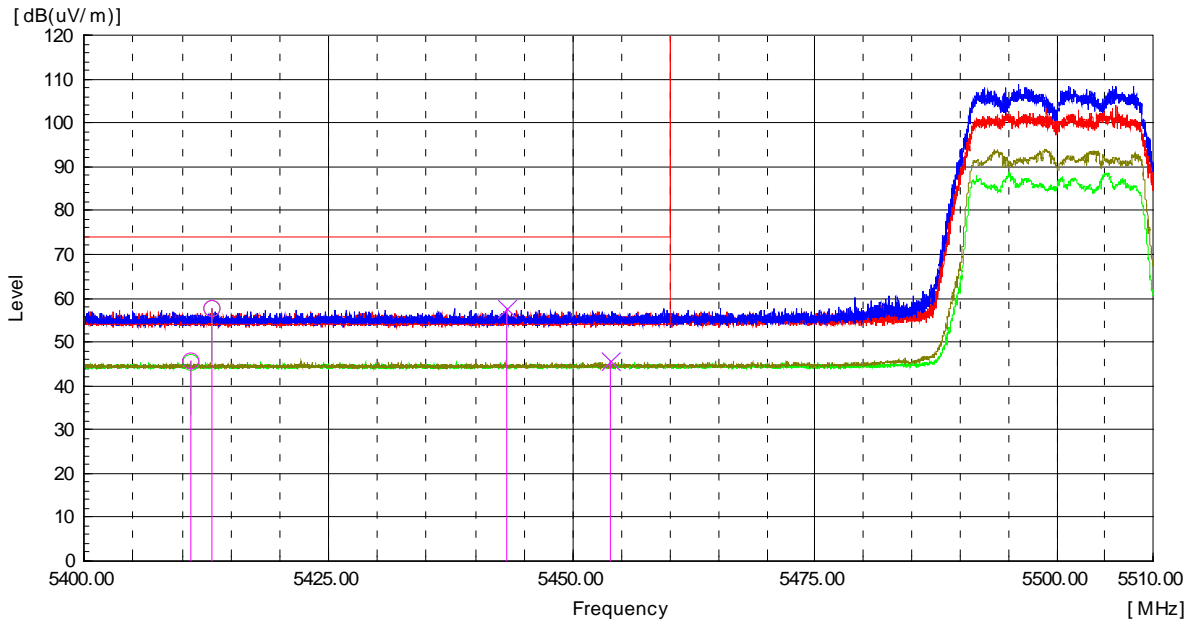
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



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]
5 361.74	H	56.3	-----	2.1	-----	58.4	-----	74.0	-----	15.6	-----
5 367.96	H	-----	43.9	2.1	0.0	-----	46.0	-----	54.0	-----	8.0
5 383.56	V	57.6	-----	2.1	-----	59.7	-----	74.0	-----	14.3	-----
5 352.16	V	-----	44.0	2.1	0.0	-----	46.1	-----	54.0	-----	7.9

Radiated Restricted Band Edge Plot

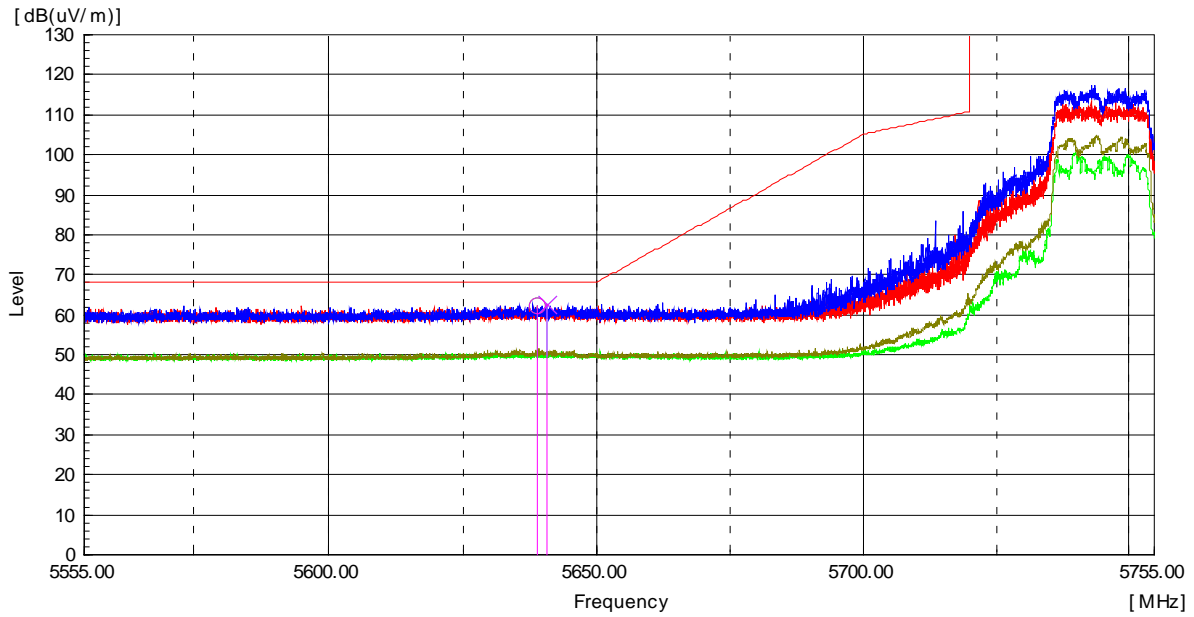
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



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]
5 413.13	H	55.4	-----	2.1	-----	57.5	-----	74.0	-----	16.5	-----
5 410.82	H	-----	43.4	2.1	0.0	-----	45.5	-----	54.0	-----	8.5
5 443.30	V	55.7	-----	2.0	-----	57.7	-----	74.0	-----	16.3	-----
5 453.94	V	-----	43.7	2.0	0.0	-----	45.7	-----	54.0	-----	8.3

Radiated Restricted Band Edge Plot

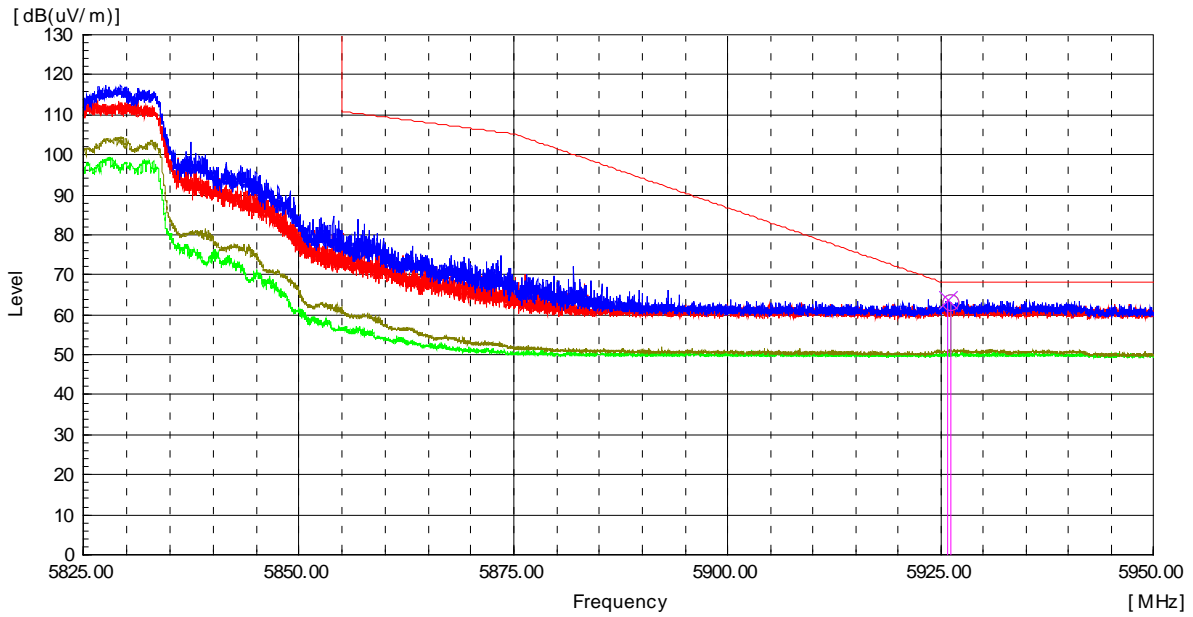
Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



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]
5 638.93	H	59.8	-----	2.6	-----	62.4	-----	68.2	-----	5.8	-----
5 640.48	V	60.1	-----	2.7	-----	62.8	-----	68.2	-----	5.4	-----

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]
5 926.23	H	59.8	-----	3.3	-----	63.1	-----	68.2	-----	5.1	-----
5 925.86	V	60.7	-----	3.3	-----	64.0	-----	68.2	-----	4.2	-----

Radiated Restricted Band Edge Plot



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Report No.:
 CTK-2021-00840
 Page (224) / (250) Pages

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]
3 459.96	H	49.1	-----	-0.8	-----	48.3	-----	74.0	-----	25.7	-----
3 459.94	H	-----	40.1	-0.8	0.4	-----	39.7	-----	54.0	-----	14.3
3 460.17	V	48.4	-----	-0.8	-----	47.6	-----	74.0	-----	26.4	-----
3 459.94	V	-----	39.0	-0.8	0.4	-----	38.6	-----	54.0	-----	15.4
10 377.76	H	54.9	-----	6.7	-----	61.6	-----	74.0	-----	12.4	-----
10 372.36	H	-----	40.9	6.7	0.4	-----	48.0	-----	54.0	-----	6.0
10 382.14	V	57.4	-----	6.7	-----	64.1	-----	74.0	-----	9.9	-----
10 378.94	V	-----	40.7	6.7	0.4	-----	47.8	-----	54.0	-----	6.2

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]
3 486.78	H	49.6	-----	-0.9	-----	48.7	-----	74.0	-----	25.3	-----
3 486.66	H	-----	39.8	-0.9	0.4	-----	39.3	-----	54.0	-----	14.7
3 486.49	V	47.5	-----	-0.9	-----	46.6	-----	74.0	-----	27.4	-----
3 486.62	V	-----	38.0	-0.9	0.4	-----	37.5	-----	54.0	-----	16.5
10 458.08	H	55.2	-----	6.9	-----	62.1	-----	74.0	-----	11.9	-----
10 462.81	H	-----	40.9	6.9	0.4	-----	48.2	-----	54.0	-----	5.8
10 461.12	V	54.5	-----	6.9	-----	61.4	-----	74.0	-----	12.6	-----
10 460.11	V	-----	39.5	6.9	0.4	-----	46.8	-----	54.0	-----	7.2



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Report No.:
 CTK-2021-00840
 Page (225) / (250) Pages

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]
3 513.31	H	49.8	-----	-0.9	-----	48.9	-----	74.0	-----	25.1	-----
3 513.35	H	-----	39.3	-0.9	0.4	-----	38.8	-----	54.0	-----	15.2
3 513.42	V	48.4	-----	-0.9	-----	47.5	-----	74.0	-----	26.5	-----
3 513.38	V	-----	36.7	-0.9	0.4	-----	36.2	-----	54.0	-----	17.8
10 539.59	H	54.0	-----	7.1	-----	61.1	-----	74.0	-----	12.9	-----
10 547.35	H	-----	41.1	7.1	0.4	-----	48.6	-----	54.0	-----	5.4
10 536.21	V	55.4	-----	7.1	-----	62.5	-----	74.0	-----	11.5	-----
10 538.74	V	-----	40.3	7.1	0.4	-----	47.8	-----	54.0	-----	6.2

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]
3 540.24	H	47.9	-----	-0.9	-----	47.0	-----	74.0	-----	27.0	-----
3 539.94	H	-----	37.4	-0.9	0.4	-----	36.9	-----	54.0	-----	17.1
3 540.06	V	46.9	-----	-0.9	-----	46.0	-----	74.0	-----	28.0	-----
3 539.97	V	-----	35.5	-0.9	0.4	-----	35.0	-----	54.0	-----	19.0
10 615.86	H	52.8	-----	7.2	-----	60.0	-----	74.0	-----	14.0	-----
10 617.38	H	-----	39.8	7.2	0.4	-----	47.4	-----	54.0	-----	6.6
10 617.55	V	53.8	-----	7.2	-----	61.0	-----	74.0	-----	13.0	-----
10 623.79	V	-----	40.7	7.2	0.4	-----	48.3	-----	54.0	-----	5.7

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]
11 019.01	H	51.2	-----	7.7	-----	58.9	-----	74.0	-----	15.1	-----
11 018.84	H	-----	37.3	7.7	0.4	-----	45.4	-----	54.0	-----	8.6
11 019.68	V	48.6	-----	7.7	-----	56.3	-----	74.0	-----	17.7	-----
11 018.84	V	-----	36.5	7.7	0.4	-----	44.6	-----	54.0	-----	9.4



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

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

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

Ch.159(5 795 MHz)

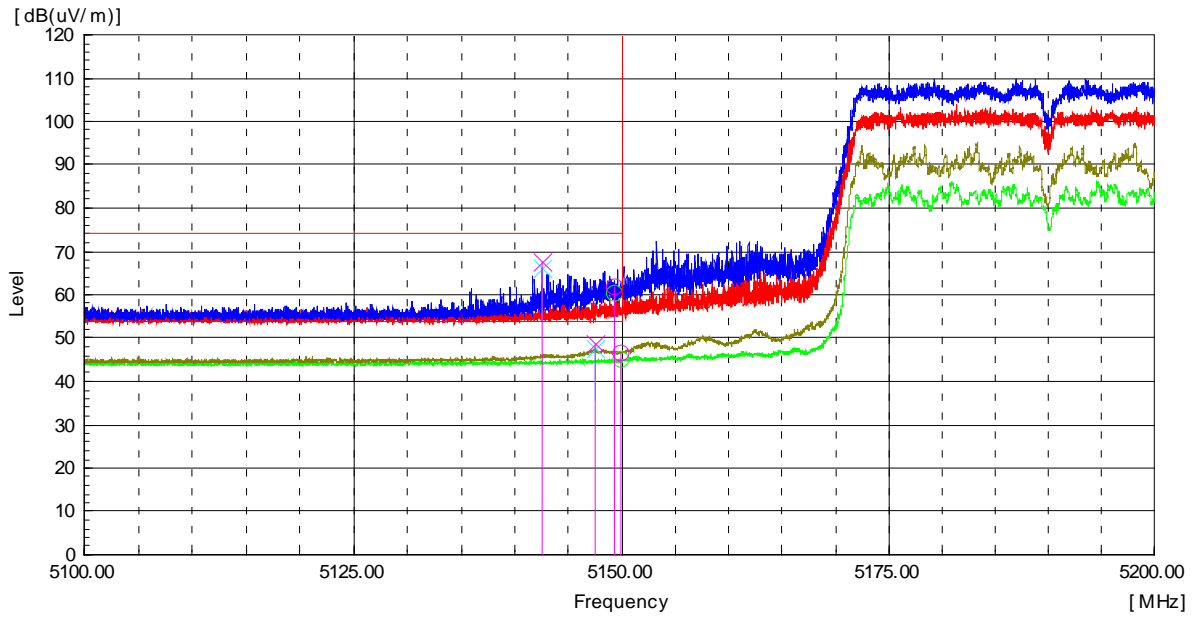
Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
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The emissions above 1 GHz were 20 dB lower than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

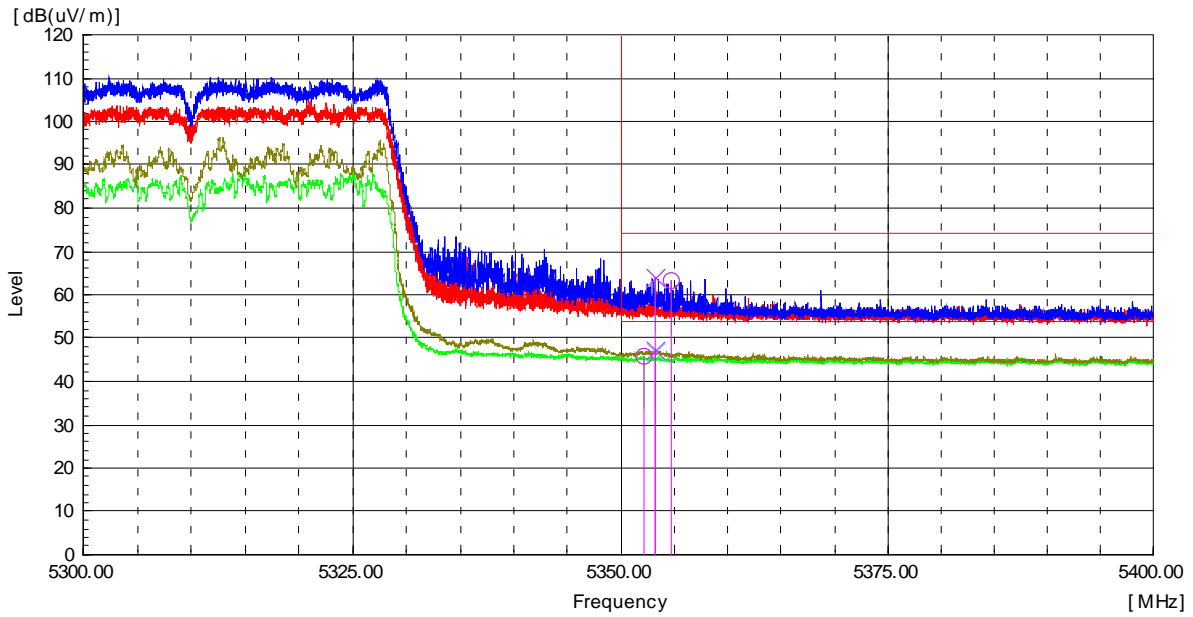
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 190 MHz
Channel :	38



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]
5 149.36	H	60.4	-----	1.4	-----	61.8	-----	74.0	-----	12.2	-----
5 149.89	H	-----	45.2	1.4	0.4	-----	47.0	-----	54.0	-----	7.0
5 142.54	V	66.2	-----	1.4	-----	67.6	-----	74.0	-----	6.4	-----
5 147.50	V	-----	47.5	1.4	0.4	-----	49.3	-----	54.0	-----	4.7

Radiated Restricted Band Edge Plot

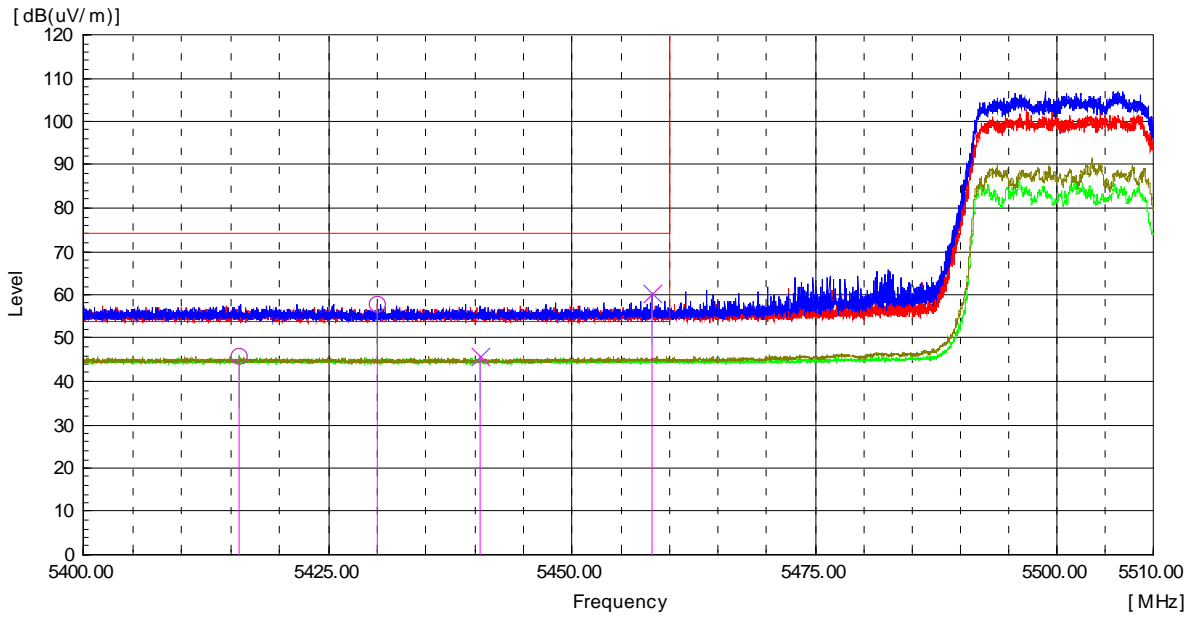
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 310 MHz
Channel :	62



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]
5 354.73	H	61.2	-----	2.1	-----	63.3	-----	74.0	-----	10.7	-----
5 352.14	H	-----	43.9	2.1	0.4	-----	46.4	-----	54.0	-----	7.6
5 353.24	V	61.9	-----	2.1	-----	64.0	-----	74.0	-----	10	-----
5 353.25	V	-----	45.0	2.1	0.4	-----	47.5	-----	54.0	-----	6.5

Radiated Restricted Band Edge Plot

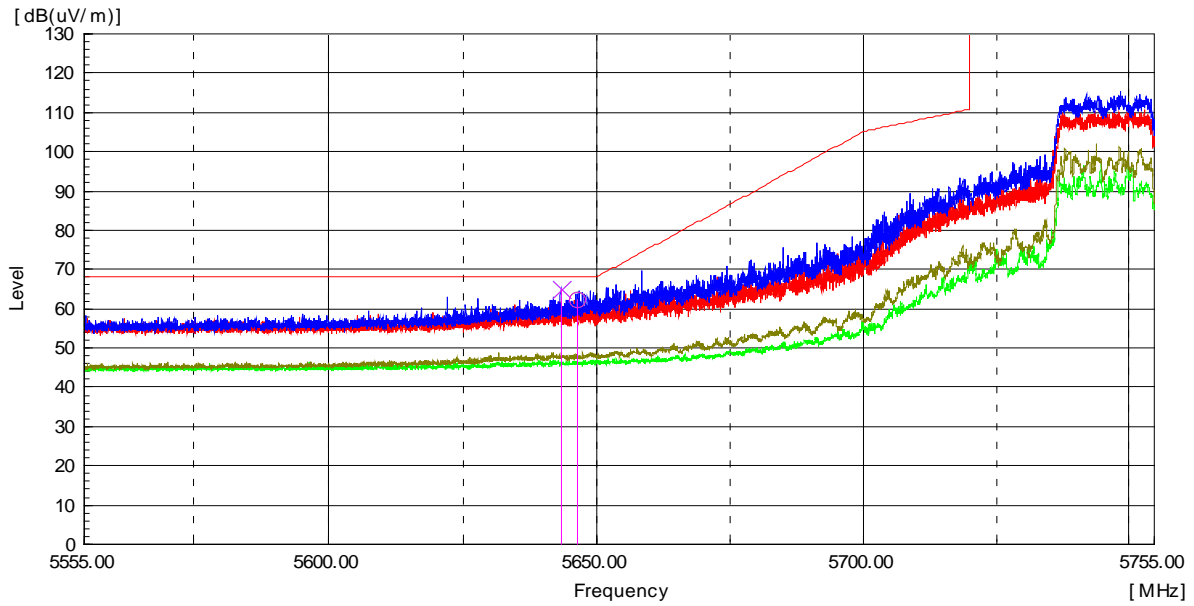
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 510 MHz
Channel :	102



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]
5 430.07	H	55.8	-----	2.0	-----	57.8	-----	74.0	-----	16.2	-----
5 415.96	H	-----	43.6	2.1	0.4	-----	46.1	-----	54.0	-----	7.9
5 458.25	V	58.3	-----	2.0	-----	60.3	-----	74.0	-----	13.7	-----
5 440.48	V	-----	43.8	2.0	0.4	-----	46.2	-----	54.0	-----	7.8

Radiated Restricted Band Edge Plot

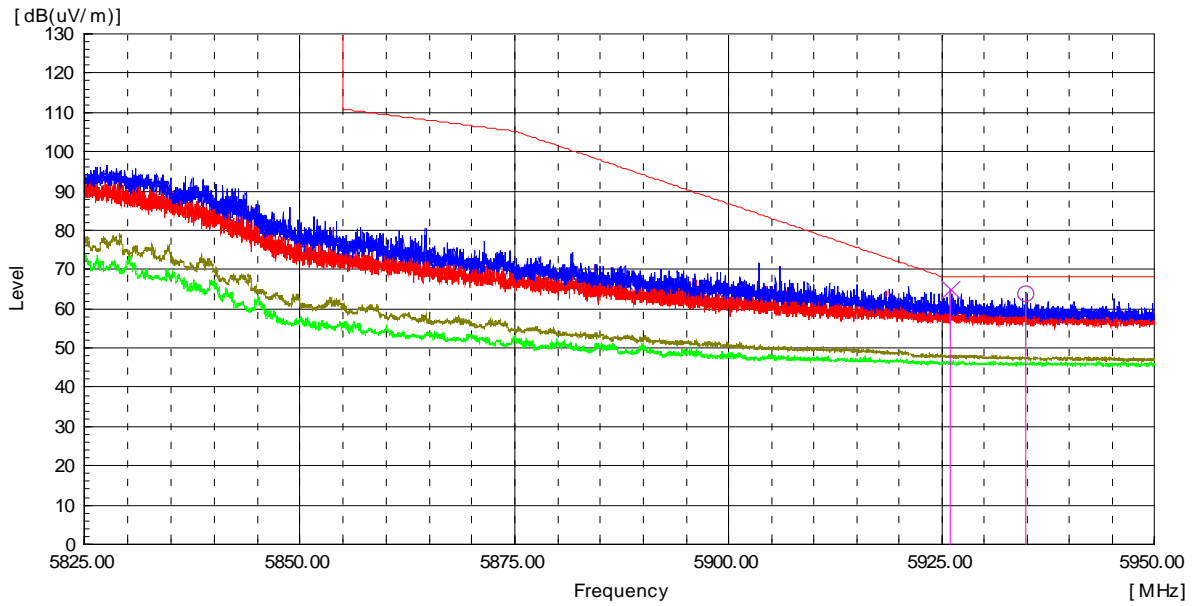
Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 755 MHz
Channel :	151



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]
5 646.33	H	59.5	-----	2.7	-----	62.2	-----	68.2	-----	6.0	-----
5 643.18	V	62.2	-----	2.7	-----	64.9	-----	68.2	-----	3.3	-----

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]
5 934.83	H	60.7	-----	3.3	-----	64.0	-----	68.2	-----	4.2	-----
5 926.02	V	61.6	-----	3.3	-----	64.9	-----	68.2	-----	3.3	-----

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]
3 459.96	H	50.0	-----	-0.8	-----	49.2	-----	74.0	-----	24.8	-----
3 459.99	H	-----	40.9	-0.8	0.1	-----	40.2	-----	54.0	-----	13.8
3 460.13	V	48.5	-----	-0.8	-----	47.7	-----	74.0	-----	26.3	-----
3 460.04	V	-----	39.2	-0.8	0.1	-----	38.5	-----	54.0	-----	15.5
10 382.31	H	56.9	-----	6.7	-----	63.6	-----	74.0	-----	10.4	-----
10 377.76	H	-----	42.2	6.7	0.1	-----	49.0	-----	54.0	-----	5.0
10 372.69	V	57.1	-----	6.7	-----	63.8	-----	74.0	-----	10.2	-----
10 379.28	V	-----	41.5	6.7	0.1	-----	48.3	-----	54.0	-----	5.7

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]
3 486.61	H	49.0	-----	-0.9	-----	48.1	-----	74.0	-----	25.9	-----
3 486.65	H	-----	39.9	-0.9	0.1	-----	39.1	-----	54.0	-----	14.9
3 486.89	V	48.0	-----	-0.9	-----	47.1	-----	74.0	-----	26.9	-----
3 486.55	V	-----	37.3	-0.9	0.1	-----	36.5	-----	54.0	-----	17.5
10 459.77	H	54.0	-----	6.9	-----	60.9	-----	74.0	-----	13.1	-----
10 462.47	H	-----	42.1	6.9	0.1	-----	49.1	-----	54.0	-----	4.9
10 465.84	V	56.0	-----	6.9	-----	62.9	-----	74.0	-----	11.1	-----
10 464.66	V	-----	40.9	6.9	0.1	-----	47.9	-----	54.0	-----	6.1



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Report No.:
 CTK-2021-00840
 Page (233) / (250) Pages

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]
3 513.34	H	49.4	-----	-0.9	-----	48.5	-----	74.0	-----	25.5	-----
3 513.34	H	-----	39.1	-0.9	0.1	-----	38.3	-----	54.0	-----	15.7
3 513.02	V	47.4	-----	-0.9	-----	46.5	-----	74.0	-----	27.5	-----
3 513.27	V	-----	36.3	-0.9	0.1	-----	35.5	-----	54.0	-----	18.5
10 527.27	H	52.7	-----	7.0	-----	59.7	-----	74.0	-----	14.3	-----
10 537.06	H	-----	40.3	7.1	0.1	-----	47.5	-----	54.0	-----	6.5
10 541.28	V	52.2	-----	7.1	-----	59.3	-----	74.0	-----	14.7	-----
10 539.25	V	-----	39.9	7.1	0.1	-----	47.1	-----	54.0	-----	6.9

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]
3 539.84	H	47.2	-----	-0.9	-----	46.3	-----	74.0	-----	27.7	-----
3 539.99	H	-----	37.8	-0.9	0.1	-----	37.0	-----	54.0	-----	17.0
3 539.84	V	46.5	-----	-0.9	-----	45.6	-----	74.0	-----	28.4	-----
3 539.83	V	-----	35.2	-0.9	0.1	-----	34.4	-----	54.0	-----	19.6
10 618.73	H	53.3	-----	7.2	-----	60.5	-----	74.0	-----	13.5	-----
10 616.88	H	-----	40.2	7.2	0.1	-----	47.5	-----	54.0	-----	6.5
10 621.26	V	52.4	-----	7.2	-----	59.6	-----	74.0	-----	14.4	-----
10 618.39	V	-----	40.7	7.2	0.1	-----	48.0	-----	54.0	-----	6.0

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]
11 018.67	H	49.8	-----	7.7	-----	57.5	-----	74.0	-----	16.5	-----
11 027.44	H	-----	37.4	7.7	0.1	-----	45.2	-----	54.0	-----	8.8
11 016.64	V	49.0	-----	7.7	-----	56.7	-----	74.0	-----	17.3	-----
11 014.79	V	-----	36.8	7.7	0.1	-----	44.6	-----	54.0	-----	9.4



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

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

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

Ch.159(5 795 MHz)

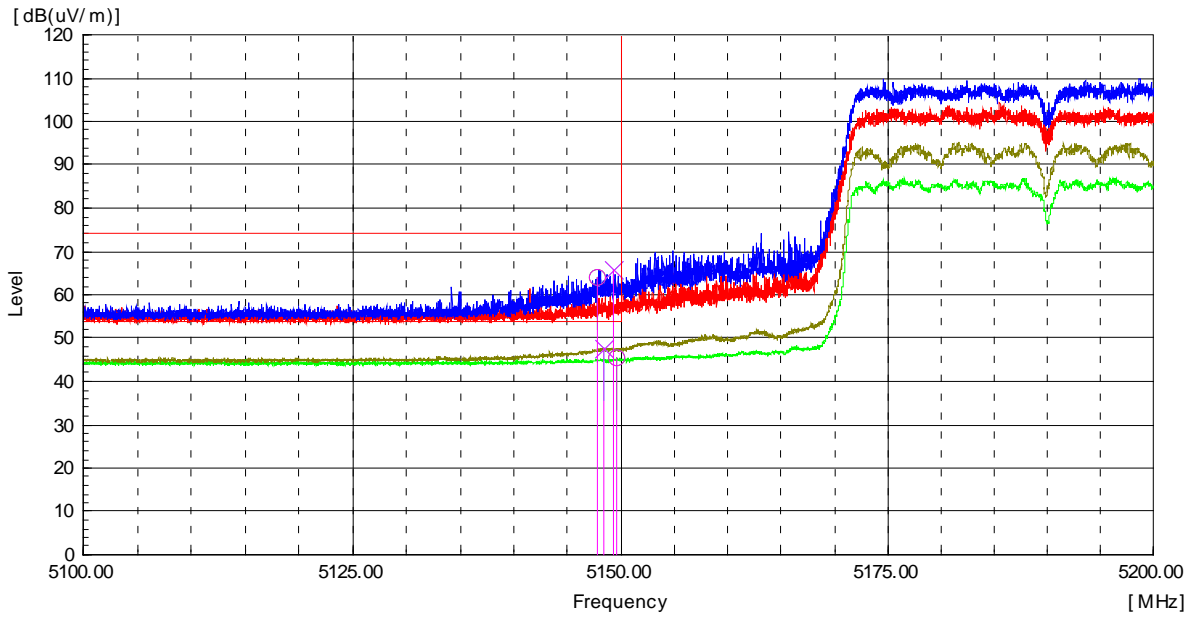
Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
-----------------	-----	-------------------	-------------------	---------------	------------------------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

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 stand-up position(Z 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

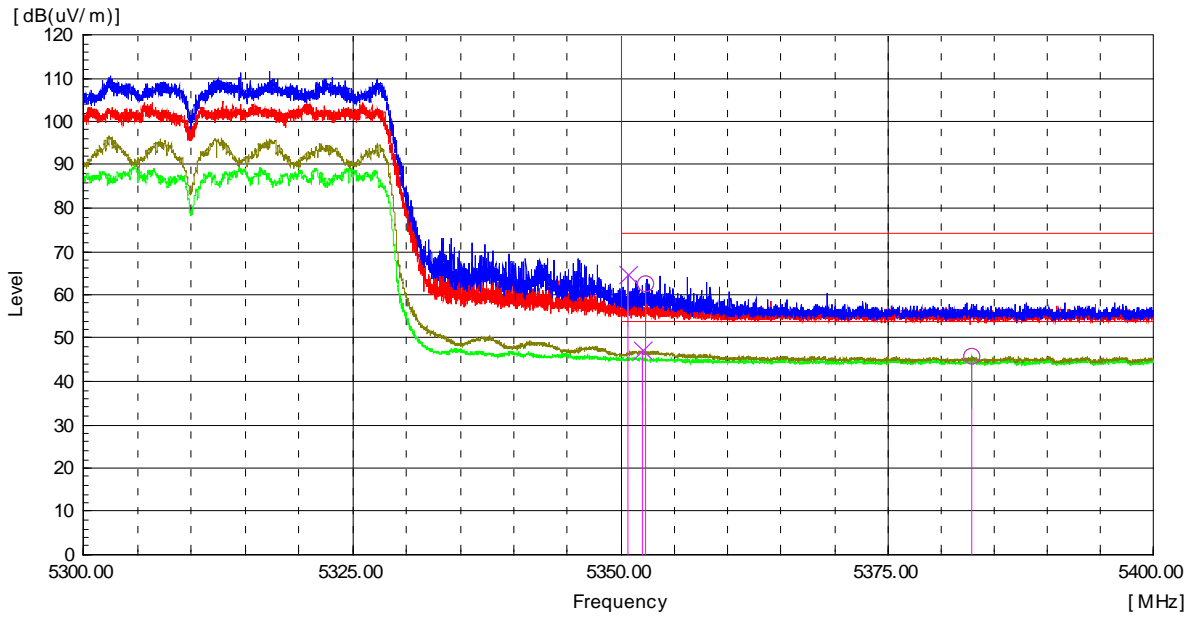
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 190 MHz
Channel :	38



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]
5 147.86	H	62.5	-----	1.4	-----	63.9	-----	74.0	-----	10.1	-----
5 149.56	H	-----	44.0	1.4	0.1	-----	45.5	-----	54.0	-----	8.5
5 149.34	V	64.5	-----	1.4	-----	65.9	-----	74.0	-----	8.1	-----
5 148.41	V	-----	46.4	1.4	0.1	-----	47.9	-----	54.0	-----	6.1

Radiated Restricted Band Edge Plot

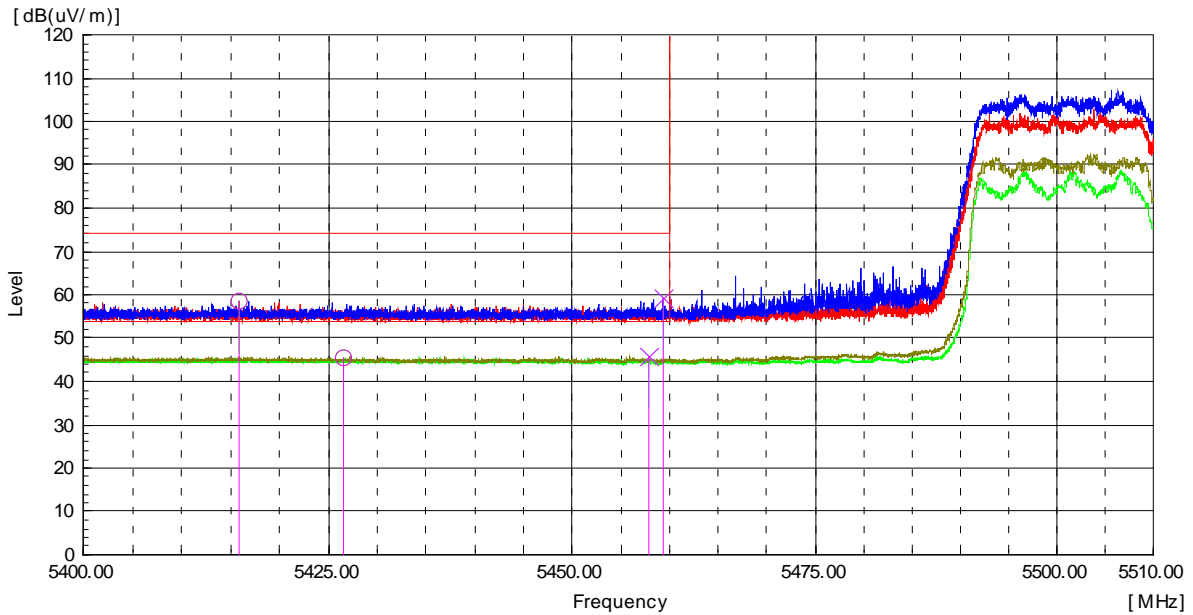
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 310 MHz
Channel :	62



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]
5 352.28	H	60.5	-----	2.1	-----	62.6	-----	74.0	-----	11.4	-----
5 382.98	H	-----	43.7	2.1	0.1	-----	45.9	-----	54.0	-----	8.1
5 350.65	V	62.7	-----	2.1	-----	64.8	-----	74.0	-----	9.2	-----
5 352.06	V	-----	45.0	2.1	0.1	-----	47.2	-----	54.0	-----	6.8

Radiated Restricted Band Edge Plot

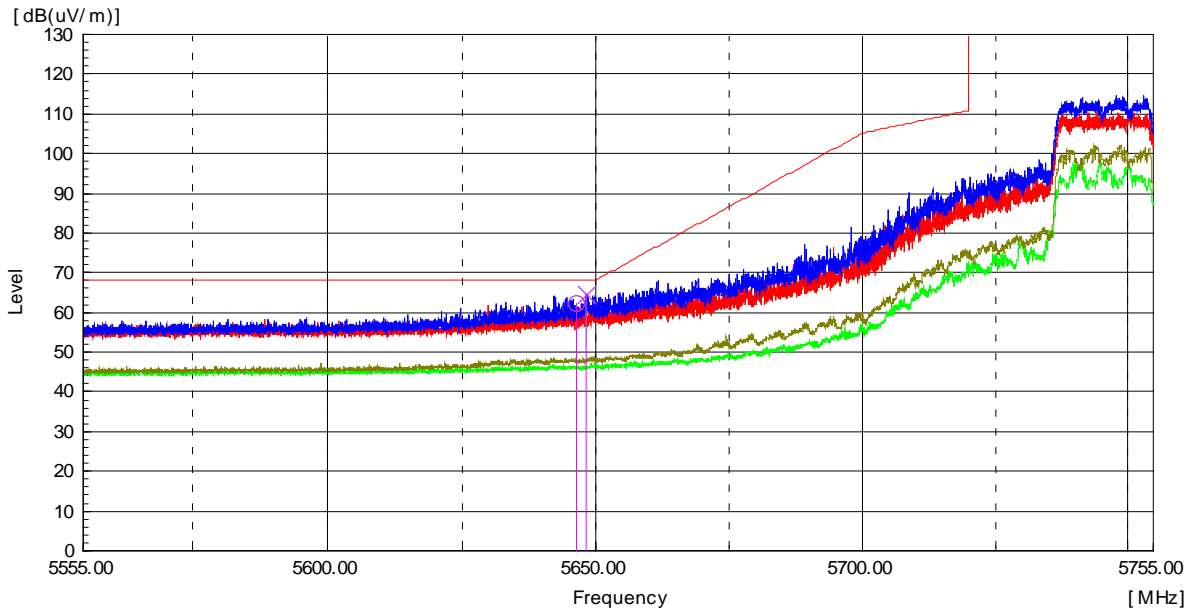
Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 510 MHz
Channel :	102



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]
5 415.95	H	56.5	-----	2.1	-----	58.6	-----	74.0	-----	15.4	-----
5 426.59	H	-----	43.5	2.1	0.1	-----	45.7	-----	54.0	-----	8.3
5 459.28	V	57.4	-----	2.0	-----	59.4	-----	74.0	-----	14.6	-----
5 457.93	V	-----	43.8	2.0	0.1	-----	45.9	-----	54.0	-----	8.1

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]
5 646.38	H	59.7	-----	2.7	-----	62.4	-----	68.2	-----	5.8	-----
5 648.13	V	62.0	-----	2.7	-----	64.7	-----	68.2	-----	3.5	-----

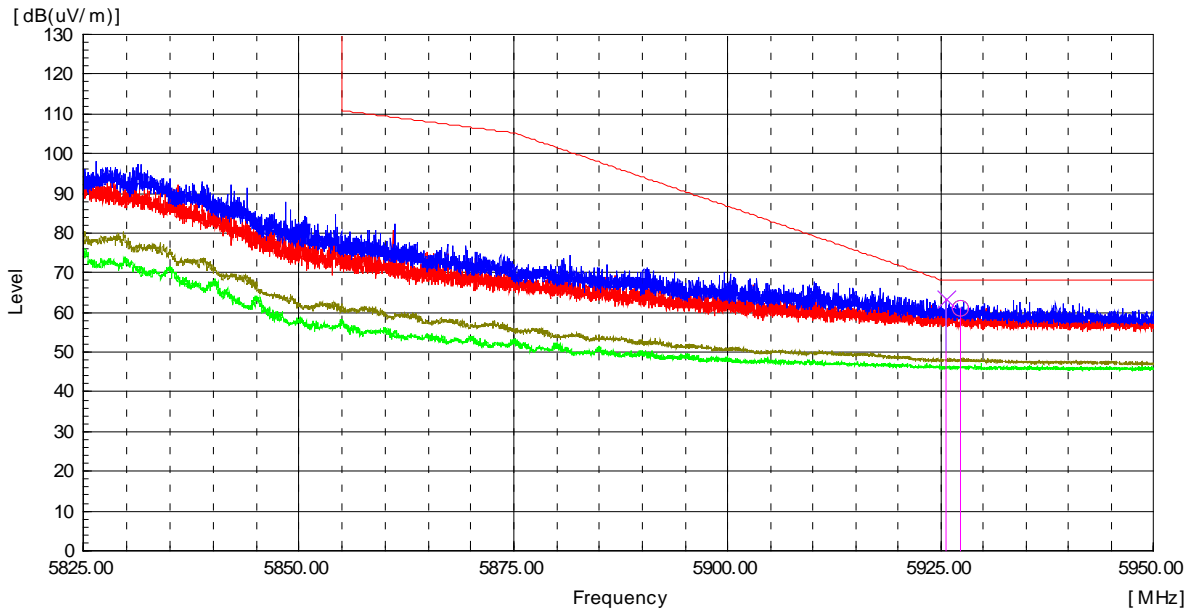
Radiated Restricted Band Edge Plot



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Report No.:
 CTK-2021-00840
 Page (239) / (250) Pages

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]
5 927.25	H	57.9	-----	3.3	-----	61.2	-----	68.2	-----	7.0	-----
5 925.66	V	60.2	-----	3.3	-----	63.5	-----	68.2	-----	4.7	-----

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]
3 473.44	H	51.2	-----	-0.8	-----	50.4	-----	74.0	-----	23.6	-----
3 473.32	H	-----	40.9	-0.8	0.3	-----	40.4	-----	54.0	-----	13.7
3 473.31	V	48.8	-----	-0.8	-----	48.0	-----	74.0	-----	26.0	-----
3 473.34	V	-----	38.5	-0.8	0.3	-----	38.0	-----	54.0	-----	16.1
10 419.94	H	52.9	-----	6.8	-----	59.7	-----	74.0	-----	14.3	-----
10 412.35	H	-----	39.6	6.8	0.3	-----	46.7	-----	54.0	-----	7.4
10 421.13	V	53.5	-----	6.8	-----	60.3	-----	74.0	-----	13.7	-----
10 428.89	V	-----	38.4	6.8	0.3	-----	45.5	-----	54.0	-----	8.6

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]
3 526.80	H	48.0	-----	-0.9	-----	47.1	-----	74.0	-----	26.9	-----
3 526.63	H	-----	37.8	-0.9	0.3	-----	37.2	-----	54.0	-----	16.9
3 526.53	V	46.5	-----	-0.9	-----	45.6	-----	74.0	-----	28.4	-----
3 526.65	V	-----	35.3	-0.9	0.3	-----	34.7	-----	54.0	-----	19.4
10 579.08	H	51.9	-----	7.1	-----	59.0	-----	74.0	-----	15.0	-----
10 580.76	H	-----	38.4	7.1	0.3	-----	45.8	-----	54.0	-----	8.3
10 592.58	V	50.5	-----	7.2	-----	57.7	-----	74.0	-----	16.3	-----
10 603.71	V	-----	37.6	7.2	0.3	-----	45.1	-----	54.0	-----	9.0

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]
11 050.22	H	46.9	-----	7.8	-----	54.7	-----	74.0	-----	19.3	-----
11 037.57	H	-----	36.0	7.8	0.3	-----	44.1	-----	54.0	-----	10.0
11 103.55	V	47.3	-----	7.9	-----	55.2	-----	74.0	-----	18.8	-----
11 061.70	V	-----	35.3	7.8	0.3	-----	43.4	-----	54.0	-----	10.7



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Report No.:
 CTK-2021-00840
 Page (241) / (250) Pages

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

Ch.155(5 775 MHz)

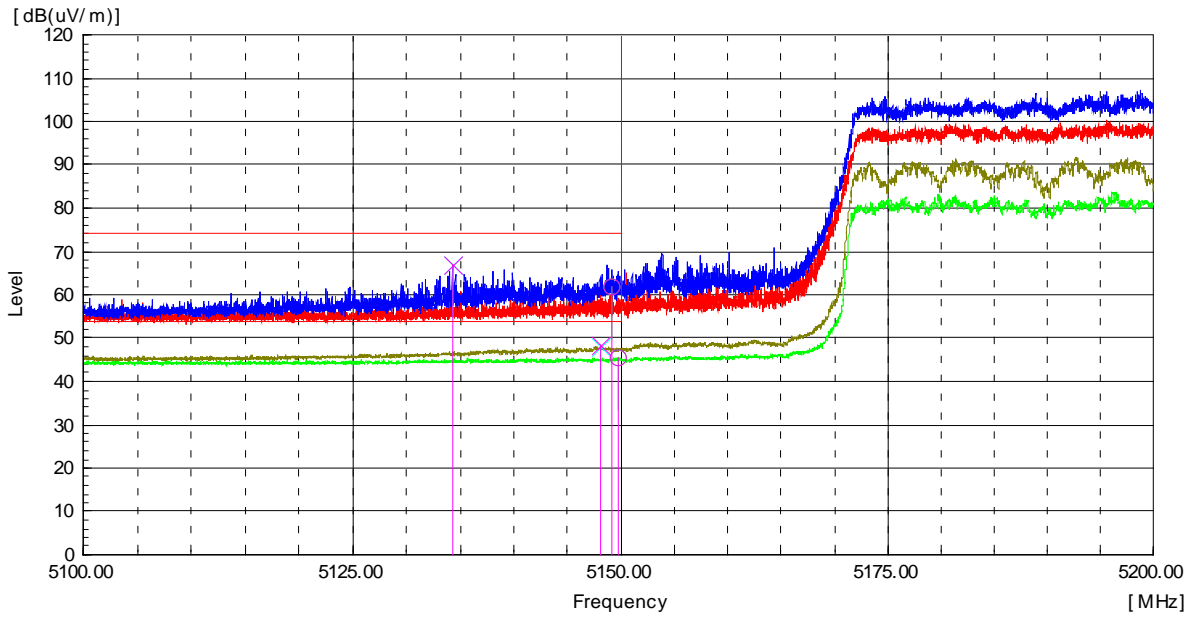
Frequency [MHz]	(P)	Reading PK [dBuV]	Reading AV [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
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The emissions above 1 GHz were 20 dB lower than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

Remarks

1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z 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

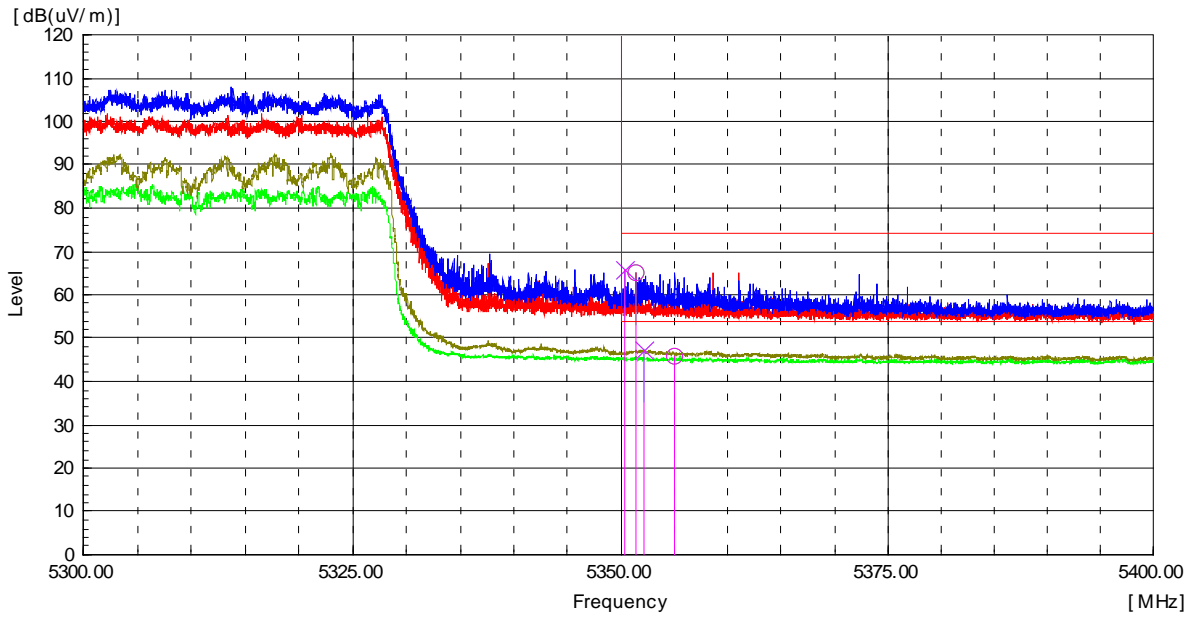
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 210 MHz
Channel :	42



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]
5 149.18	H	60.5	-----	1.4	-----	61.9	-----	74.0	-----	12.1	-----
5 149.73	H	-----	44.2	1.4	0.3	-----	45.9	-----	54.0	-----	8.2
5 134.26	V	65.4	-----	1.4	-----	66.8	-----	74.0	-----	7.2	-----
5 148.16	V	-----	46.8	1.4	0.3	-----	48.5	-----	54.0	-----	5.6

Radiated Restricted Band Edge Plot

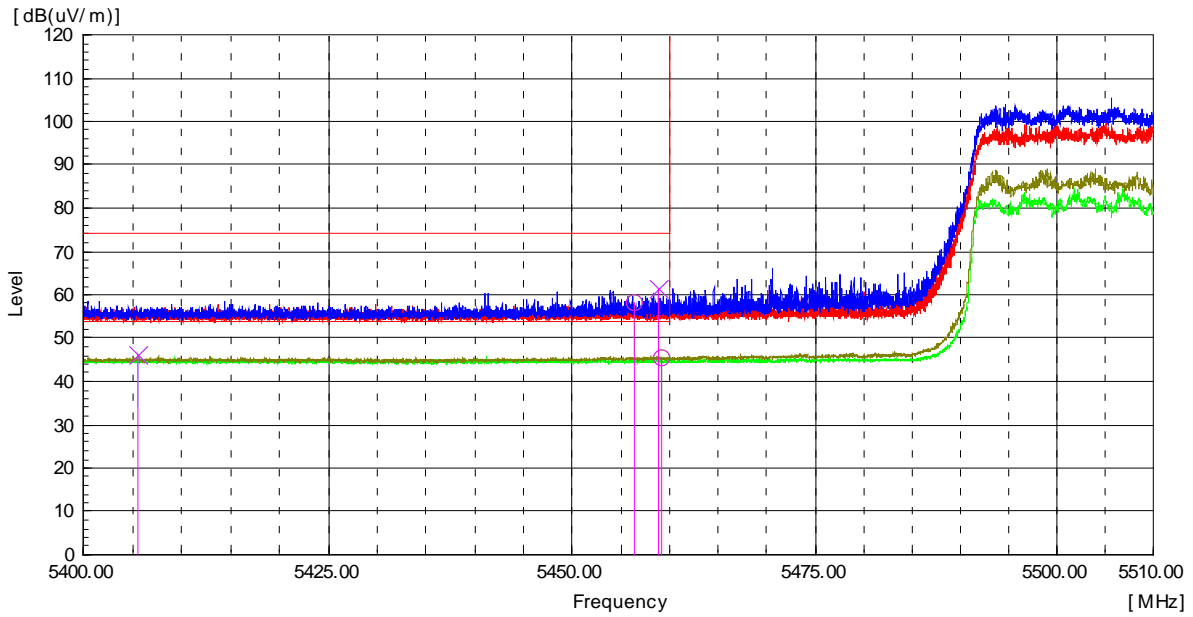
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 290 MHz
Channel :	58



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]
5 351.44	H	63.1	-----	2.1	-----	65.2	-----	74.0	-----	8.8	-----
5 355.01	H	-----	43.7	2.1	0.3	-----	46.1	-----	54.0	-----	8.0
5 350.34	V	63.7	-----	2.1	-----	65.8	-----	74.0	-----	8.2	-----
5 352.23	V	-----	45.1	2.1	0.3	-----	47.5	-----	54.0	-----	6.6

Radiated Restricted Band Edge Plot

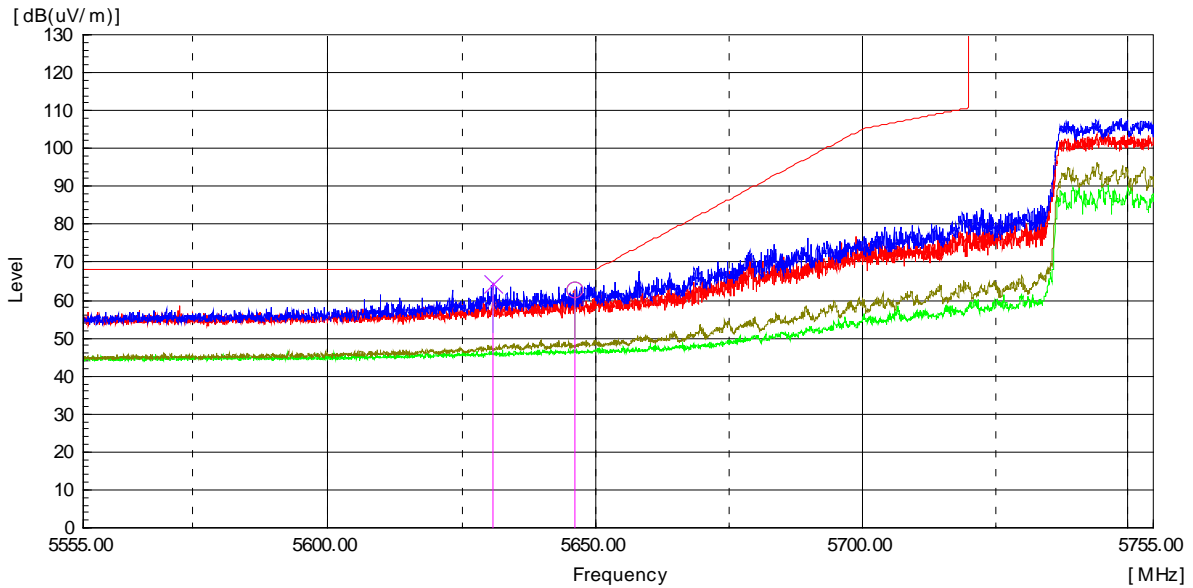
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 530 MHz
Channel :	106



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]
5 456.39	H	56.2	-----	2.0	-----	58.2	-----	74.0	-----	15.8	-----
5 459.11	H	-----	43.5	2.0	0.3	-----	45.8	-----	54.0	-----	8.3
5 458.91	V	59.3	-----	2.0	-----	61.3	-----	74.0	-----	12.7	-----
5 405.64	V	-----	44.0	2.1	0.3	-----	46.4	-----	54.0	-----	7.7

Radiated Restricted Band Edge Plot

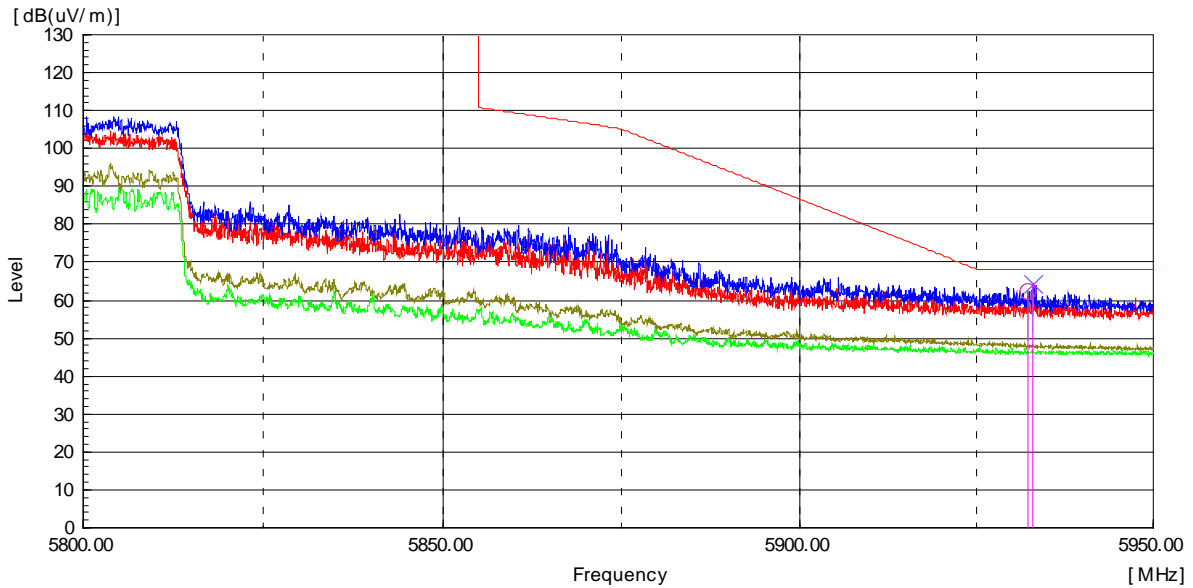
Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency :	5 775 MHz
Channel :	155



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]
5 645.90	H	60.0	-----	2.7	-----	62.7	-----	68.2	-----	5.5	-----
5 630.79	V	61.7	-----	2.6	-----	64.3	-----	68.2	-----	3.9	-----

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]
5 932.32	H	58.9	-----	3.3	-----	62.2	-----	68.2	-----	6.0	-----
5 932.92	V	61.0	-----	3.3	-----	64.3	-----	68.2	-----	3.9	-----

Radiated Restricted Band Edge Plot



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Report No.:
CTK-2021-00840
Page (247) / (250) Pages

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

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

* Decreases with the logarithm of the frequency.

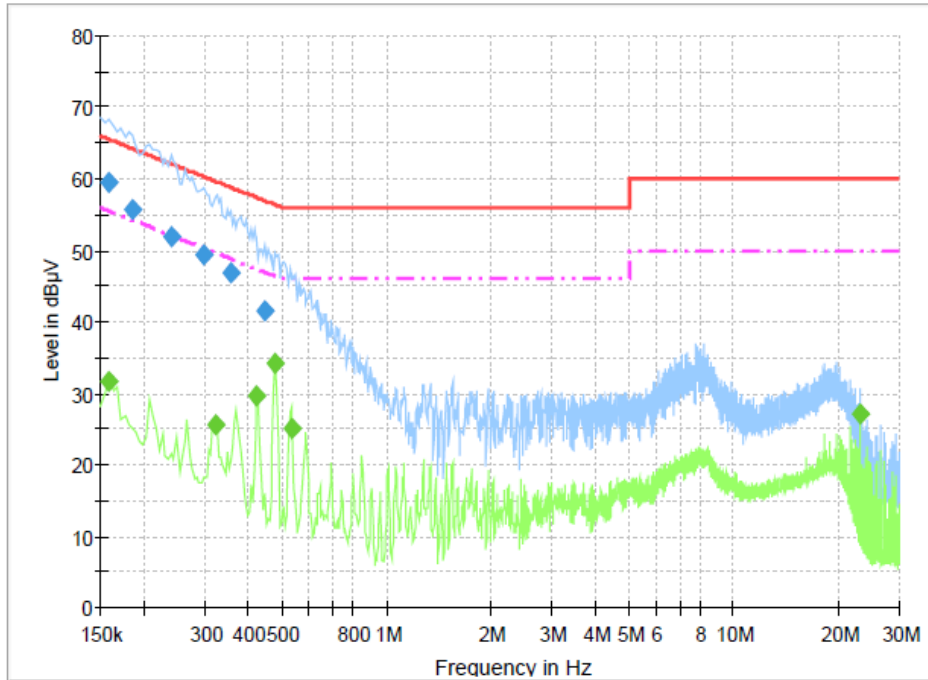
Test Results

The requirements are:

Complies

Test Data

[LINE]
(with EC)3CE_Class B_L1



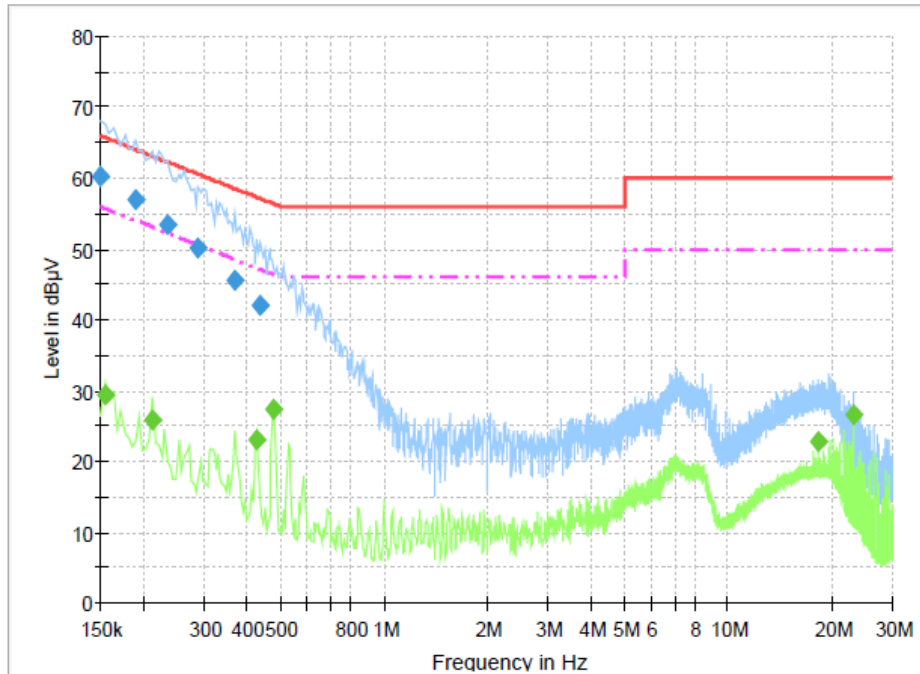
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	59.4	1000.0	9.000	On	L1	9.7	6.1	65.5
0.186000	55.8	1000.0	9.000	On	L1	9.7	8.4	64.2
0.240000	51.8	1000.0	9.000	On	L1	9.7	10.3	62.1
0.298500	49.3	1000.0	9.000	On	L1	9.7	11.0	60.3
0.357000	46.7	1000.0	9.000	On	L1	9.7	12.1	58.8
0.447000	41.5	1000.0	9.000	On	L1	9.7	15.4	56.9

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.159000	31.6	1000.0	9.000	On	L1	9.7	24.0	55.5
0.321000	25.6	1000.0	9.000	On	L1	9.7	24.1	49.7
0.424500	29.7	1000.0	9.000	On	L1	9.7	17.7	47.4
0.478500	34.3	1000.0	9.000	On	L1	9.7	12.1	46.4
0.537000	25.1	1000.0	9.000	On	L1	9.7	20.9	46.0
23.127000	27.2	1000.0	9.000	On	L1	11.0	22.8	50.0

[NEUTRAL]
(with EC)3CE_Class B_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	60.2	1000.0	9.000	On	N	9.7	5.8	66.0
0.190500	56.9	1000.0	9.000	On	N	9.7	7.1	64.0
0.235500	53.4	1000.0	9.000	On	N	9.7	8.9	62.3
0.289500	50.1	1000.0	9.000	On	N	9.7	10.5	60.5
0.370500	45.7	1000.0	9.000	On	N	9.7	12.8	58.5
0.438000	42.0	1000.0	9.000	On	N	9.7	15.1	57.1

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.154500	29.2	1000.0	9.000	On	N	9.7	26.5	55.8
0.213000	25.9	1000.0	9.000	On	N	9.7	27.2	53.1
0.429000	23.1	1000.0	9.000	On	N	9.7	24.2	47.3
0.478500	27.5	1000.0	9.000	On	N	9.7	18.9	46.4
18.244500	22.8	1000.0	9.000	On	N	10.7	27.2	50.0
23.127000	26.7	1000.0	9.000	On	N	10.9	23.3	50.0



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Report No.:
 CTK-2021-00840
 Page (250) / (250) Pages

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	MY50200512	2020-05-25	2021-05-25
2	Signal Analyzer	Agilent	N9020A	MY48011598	2020-10-12	2021-10-12
3	Signal Generator	Rohde & Schwarz	SMB100A	175528	2020-04-28	2021-04-28
4	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2020-10-20	2021-10-20
5	Bilog Antenna	Schaffner	CBL6111C	2551	2020-05-26	2022-05-26
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-126	2020-05-20	2022-05-20
7	6dB Attenuator	R&S	DNF	272.4110.50-2	2020-10-23	2021-10-23
8	6dB Attenuator	BIRD	5W 6dB	1744	2020-12-17	2021-12-17
9	AMPLIFIER	SONOMA	310	291721	2021-01-22	2022-01-22
10	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2021-01-12	2022-01-12
11	Preamplifier	Agilent	8449B	3008A01504	2020-12-17	2021-12-17
12	Horn Antenna	ETS-Lindgren	3117	00154525	2020-10-14	2021-10-14
13	Horn Antenna	SCHWARZBECK	BBHA9170	00967	2020-06-02	2021-06-02
14	Low Noise Amplifier	TESTEK	TK-PA1840H	200115-L	2020-05-29	2021-05-29
15	Band Reject Filter	Micro Tronics	BRM50716	G264	2020-04-17	2021-04-17
16	LISN	Rohde & Schwarz	ENV216	101235	2021-01-12	2022-01-12
17	Temp&Humi Chamber	ESPEC CORP.	SH-642	93016524	2020-11-09	2021-11-09

	Cable	Manufacturer	Model No.	Serial No.	Check Date
1	RF Cable	Canare Corporation	L-5D2W	N/A	2020-01-19
2	RF Cable	Junkosha Inc.	MWX221	1510S086	2022-02-09
3	RF Cable	HUBER+SUHNER	SUCOFLEX 102	MY073/2	2021-02-20
4	RF Cable	HUBER+SUHNER	SUCOFLEX 104	MY27558/4	2021-02-20
5	RF Cable	HUBER+SUHNER	SUCOFLEX 104	N/A	2021-02-20
6	RF Cable	HUBER+SUHNER	SUCOFLEX 104	MY27573/4	2021-02-20
7	RF Cable	HUBER+SUHNER	SUCOFLEX 106	N/A	2021-02-20
8	RF Cable	HUBER+SUHNER	SUCOFLEX 102	803010/2	2021-02-20
9	RF Cable	HUBER+SUHNER	SUCOFLEX 102	803742/2	2021-02-20
10	RF Cable	HUBER+SUHNER	SUCOFLEX 102	MY2374/2	2021-02-20
11	RF Cable	HUBER+SUHNER	SUCOFLEX 102	MY4728/2	2021-02-20