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ANT0_802.11ax_HE80_52T_Low_UNII 2A



ANT0_802.11ax_HE80_52T_Low_UNII 2C



ANT0_802.11ax_HE80_52T_Low_UNII 3



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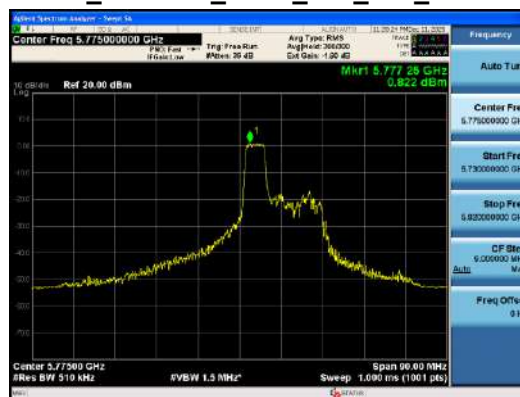
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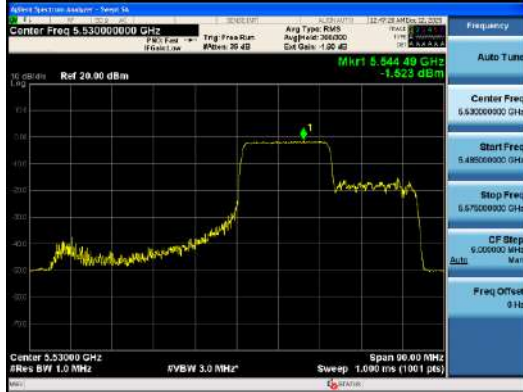
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ANT1_802.11ax_HE80_484T_Low_UNII 2C



ANT1_802.11ax_HE80_484T_Low_UNII 3



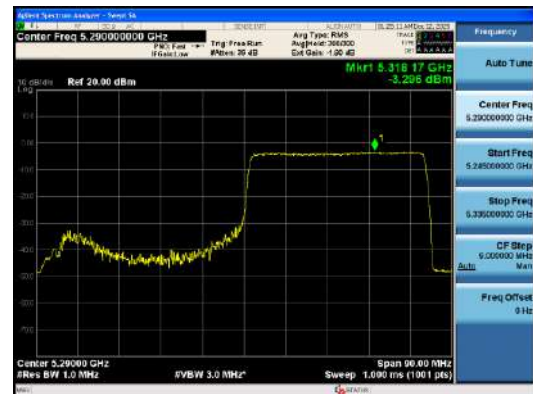
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4.5 Frequency Stability

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 -20 °C and +50 °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.

Measured Frequency Error [MHz]						
Voltage [VDC]	Temperature [°C]	Test Frequency [MHz]				
		5 180	5 200	5 240	5 260	5 300
5.00	-20	46.520	46.170	46.190	46.215	46.155
5.00	-10	37.370	35.550	34.810	34.255	33.820
5.00	0	40.085	34.230	29.835	26.410	23.405
5.00	10	27.730	19.710	13.810	11.930	7.095
5.00	20(Ref)	-13.510	-17.535	-19.985	-21.535	-22.850
5.00	30	-8.625	-17.130	-22.545	-25.955	-28.475
5.00	40	-24.125	-29.715	-32.795	-34.410	-35.510
5.00	50	-33.880	-34.800	-34.365	-33.005	-31.520
4.25	20(Ref)	-7.150	-13.090	-16.755	-19.475	-21.765
5.75	20(Ref)	-7.145	-13.590	-17.620	-20.375	-22.605

Measured Frequency Error [MHz]						
Voltage [VDC]	Temperature [°C]	Test Frequency [MHz]				
		5 320	5 500	5 600	5 700	5 720
5.00	-20	46.080	47.110	48.390	49.830	50.295
5.00	-10	33.485	34.140	34.865	35.985	36.320
5.00	0	21.200	19.915	19.365	19.480	19.175
5.00	10	3.910	1.350	0.300	-0.100	-0.715
5.00	20(Ref)	-23.510	-25.090	-25.985	-26.540	-26.690
5.00	30	-30.090	-32.335	-33.340	-34.095	-34.320
5.00	40	-35.830	-37.215	-37.655	-38.270	-38.160
5.00	50	-29.805	-29.330	-28.630	-28.695	-27.890
4.25	20(Ref)	-23.175	-25.170	-26.050	-26.625	-26.790
5.75	20(Ref)	-24.030	-26.025	-27.310	-28.290	-28.835

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Measured Frequency Error [MHz]				
Voltage [VDC]	Temperature [°C]	Test Frequency [MHz]		
		5 745	5 785	5 825
5.00	-20	51.160	51.955	52.690
5.00	-10	36.895	37.190	37.815
5.00	0	19.280	19.350	19.725
5.00	10	-0.880	-1.195	-1.110
5.00	20(Ref)	-26.990	-27.525	-26.960
5.00	30	-34.715	-34.980	-35.245
5.00	40	-38.420	-38.540	-38.820
5.00	50	-27.705	-27.260	-27.195
4.25	20(Ref)	-26.980	-27.230	-27.450
5.75	20(Ref)	-29.300	-29.695	-25.845

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.

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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 C63.10-2020 – 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 3 m distance from the EUT. The center of the Loop Test Antenna is 1 m 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 3 m away from the EUT. Test Antenna height is carried from 1 m to 4 m 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 to 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 to 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 ≥ 98 %)

Frequency Range = 1 GHz to 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 %, duty cycle variations are less than ± 2 %)

Frequency Range = 1 GHz to 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)

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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]	Test Mode	Duty Cycle Factor [dB]
802.11a	0.14	802.11ax_HE40_52T	0.23
802.11n_HT20	0.14	802.11ax_HE40_106T	0.24
802.11n_HT40	0.29	802.11ax_HE40_242T	0.28
802.11ac_VHT20	0.28	802.11ax_HE40_484T	0.28
802.11ac_VHT40	0.51	802.11ax_HE80_26T	0.22
802.11ac_VHT80	0.91	802.11ax_HE80_52T	0.23
802.11ax_HE20_26T	0.22	802.11ax_HE80_106T	0.25
802.11ax_HE20_52T	0.23	802.11ax_HE80_242T	0.28
802.11ax_HE20_106T	0.25	802.11ax_HE80_484T	0.29
802.11ax_HE20_242T	0.28	802.11ax_HE80_996T	0.29
802.11ax_HE40_26T	0.22		

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

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

4. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209 and RSS-GEN § 8.9

- 15.209(a) and RSS-GEN § 8.9

Frequency [MHz]	Magnetic Field Strength [uA/m]	Field Strength [uV/m]	Field Strength [dBuV/m]	Deasurement Distance [meters]
0.009-0.490	6.37/F (F in kHz)	2400/F(kHz)	48.5-13.8	300
0.490-1.705	63.7/F (F in kHz)	24000/F(kHz)	33.8-23	30
1.705-30	0.08	30	29.5	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 54-72 MHz, 76-88 MHz, 174-216 MHz, 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g.15.231 and 15.241.

** Except as provided in RSS-GEN § 8.9. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

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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:

Table 1. Restricted Frequency Bands (FCC)

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 in 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.

According to RSS-GEN §8.10 Unwanted emissions that fall into restricted frequency bands listed in table 2 shall comply with the limits specified in table 2.

Table 2. Restricted Frequency Bands (ISED)

MHz	MHz	MHz	MHz	MHz	GHz
0.090-0.110	8.291-8.294	25.5-25.67	322-335.4	2655-2900	10.6-12.7
0.495-0.505	8.362-8.366	37.5-38.25	399.9-410	3260 – 3267	13.25-13.4
2.1735-2.1905	8.37625-8.38675	73-74.6	608-614	3332-3339	14.47-14.5
3.020-3.026	8.41425-8.41475	74.8-75.2	960-1427	3345.8-3358	15.35-16.2
4.125-4.128	12.29-12.293	108 – 138	1435-1626.5	3500-4400	10.6-12.7
4.17725-4.17775	12.51975-12.52025	149.9-150.05	1645.5-1646.5	4500-5150	22.01-23.12
4.20725-4.20775	12.57675-12.57725	156.52475-156.52525	1660-1710	5350-5460	23.6-24.0
5.677-5.683	13.36-13.41	156.7-156.9	1718.8-1722.2	7250-7750	31.2-31.8
6.215-6.218	16.42-16.423	162.0125-167.17	2200-2300	8025–8500	36.43-36.5
6.26775-6.26825	16.69475-16.69525	167.72-173.2	2310-2390	9000-9200	Above 38.6
6.31175-6.31225	16.80425-16.80475	240 – 285	2483.5-2500	9300-9500	

Note 1: Certain frequency bands listed in table 2 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

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@3 m (AV) and 74 dBuV/m@3 m (PK)

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Test Mode :

We have done all test mode.

The worst-case antenna configuration and Test mode are determined to be as follows.

802.11a mode : ANT0, ANT1

802.11n mode : ANT0 + ANT1 (MIMO)

802.11ac mode : ANT0 + ANT1 (MIMO)

802.11ax mode : ANT0 + ANT1 (MIMO)

So the results are only attached worst cases.

802.11ax Test RU Index for Tones

Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	20	5 180	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 200	26T	-	8
			242T	-	61
		5 240	26T	-	8
			242T	-	61
		5 260	26T	-	8
			242T	-	61
		5 300	26T	-	8
			242T	-	61
		5 320	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 500	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 600	26T	-	8
			242T	-	61
		5 700	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 720	26T	-	8
			242T	-	61
		5 745	26T	0	8
			52T	37	-
			106T	53	-
			242T	61	61
		5 785	26T	-	8
			242T	-	61
		5 825	26T	8	8
			52T	8	-
			106T	8	-
			242T	61	61

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Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	40	5 190	26T	0	9
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 230	26T	-	9
			484T	-	65
		5 270	26T	-	9
			484T	-	65
		5 310	26T	0	9
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 510	26T	0	9
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 590	26T	-	9
			484T	-	65
		5 670	26T	0	9
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 710	26T	-	9
			484T	-	65
		5 755	26T	0	9
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65
		5 795	26T	0	9
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	65



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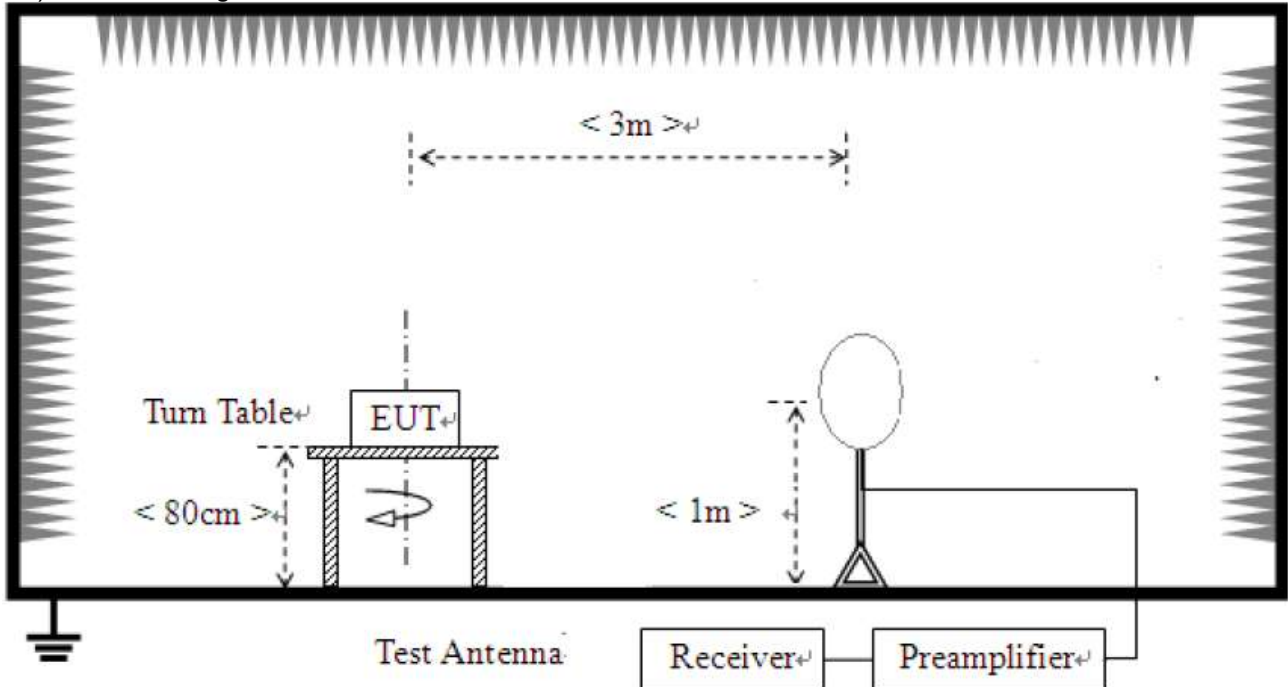
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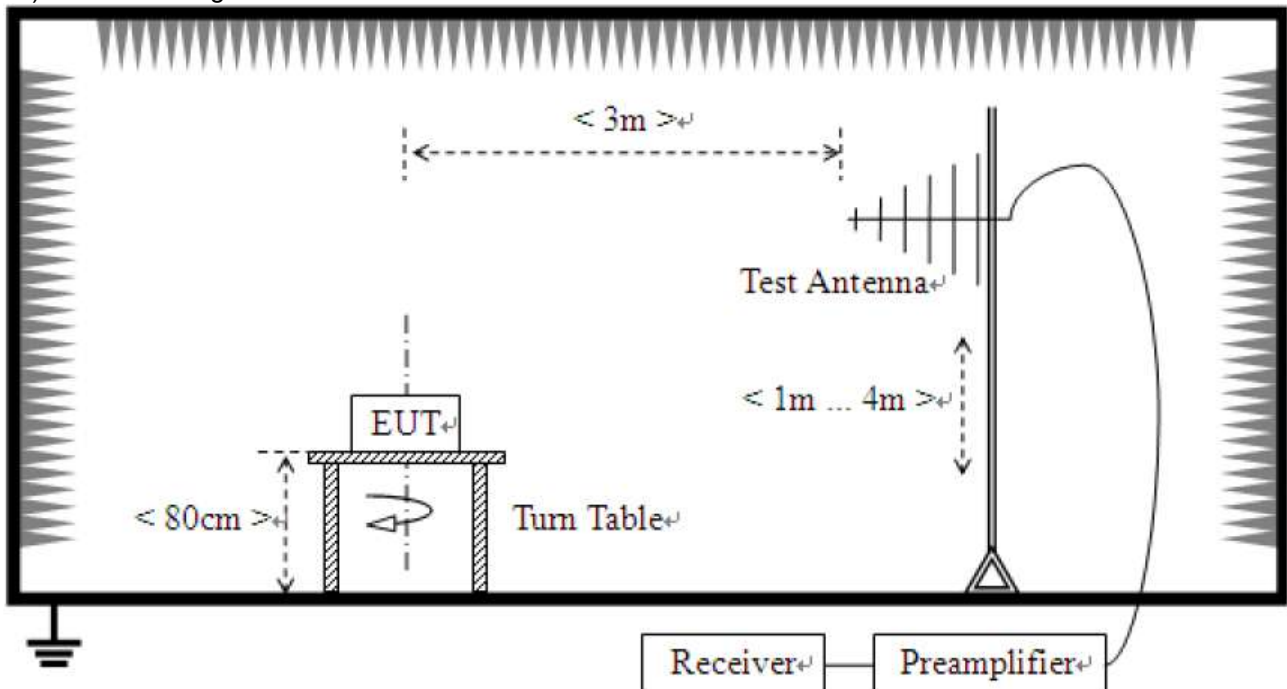
Mode	Bandwidth [MHz]	Frequency [MHz]	Tones	Test RU Index	
				Band Edge	Spurious Emission
802.11ax	80	5 210	26T	0	0
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		5 290	26T	0	0
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		5 530	26T	0	0
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		5 610	26T	0	0
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67
		5 690	26T	-	0
			996T	-	67
		5 775	26T	0	0
			52T	37	-
			106T	53	-
			242T	61	-
			484T	65	-
			996T	67	67

Test Setup :

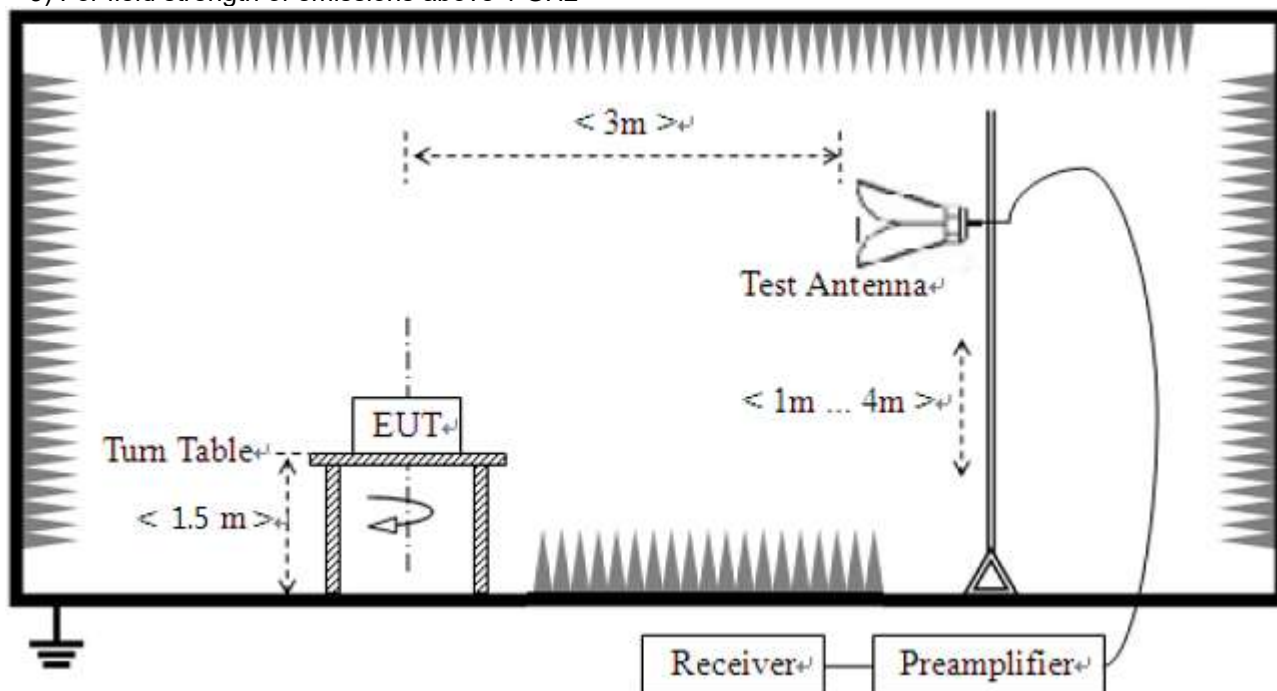
1) For field strength of emissions from 9 kHz to 30 MHz



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



3) For field strength of emissions above 1 GHz





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Test Results :

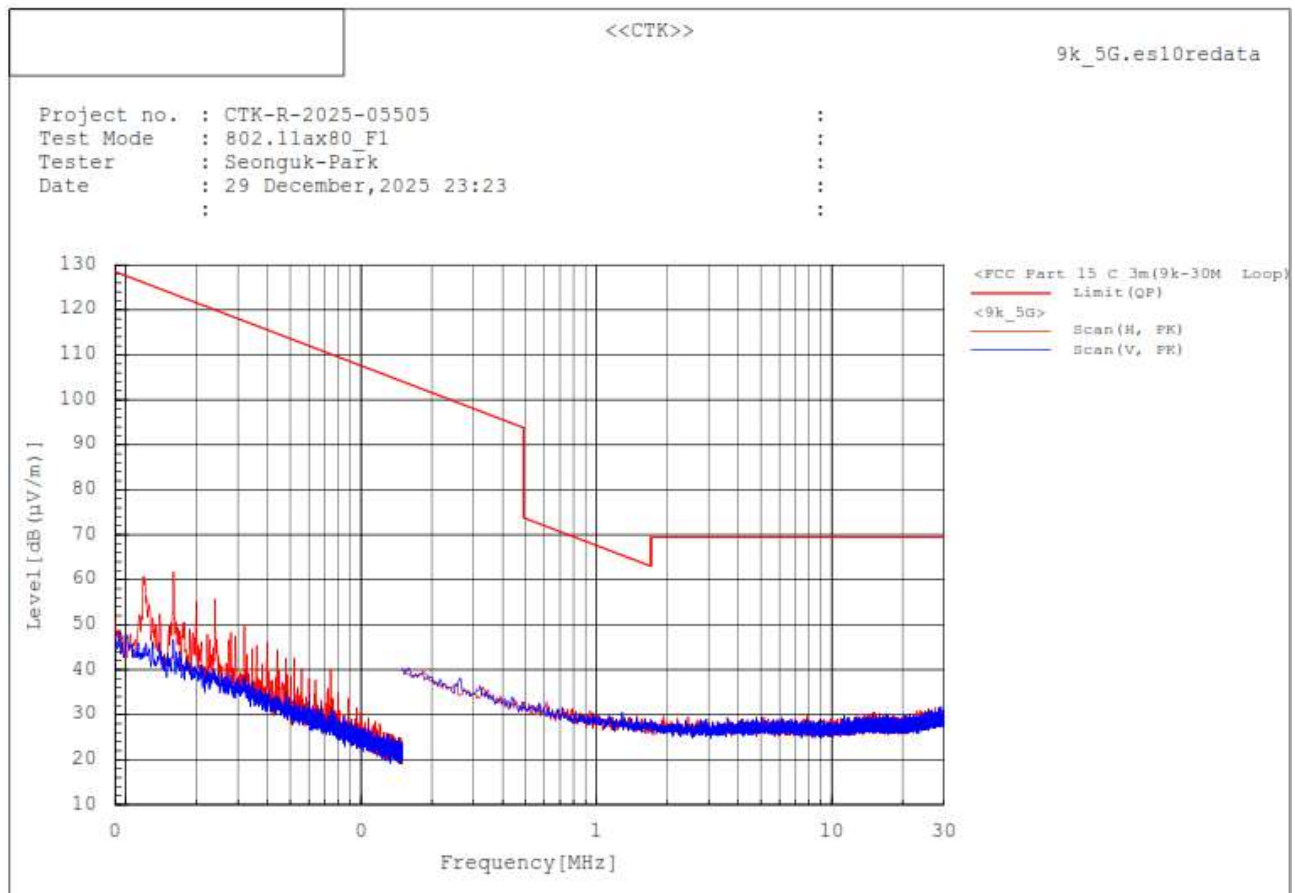
1) 9 kHz to 30 MHz

Test Mode : Transmitter_UNII 1(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 :

- Measuring position : 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 lie-down position (Z axis) and the worst case was recorded.
- Result = Reading + c.f (Correction factor)
- Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- This data is the Peak (PK) value.



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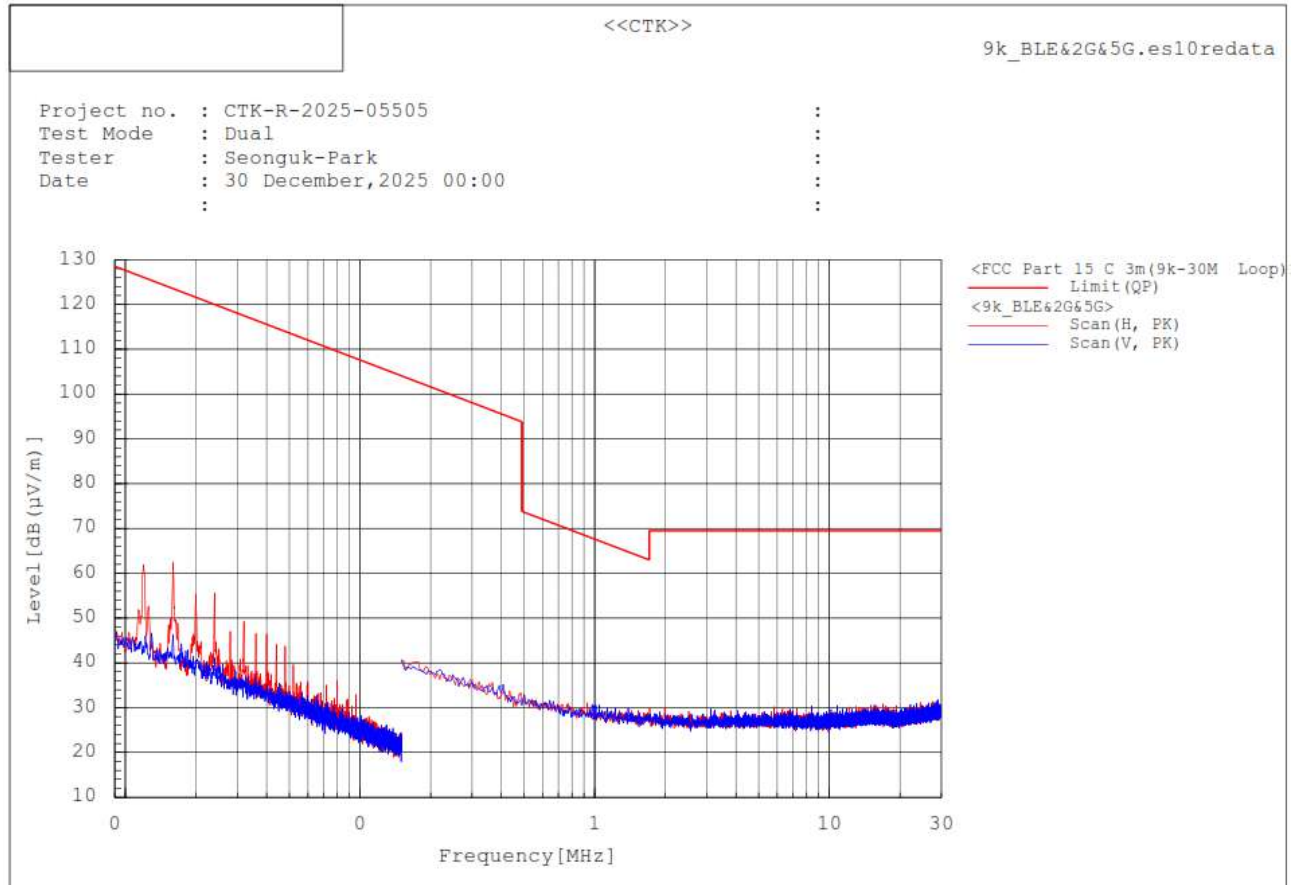
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Test Mode : Transmitter (Simultaneous transmissions DTS + 2.4 GHz + 5 GHz)

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 :

- Measuring position : 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 lie-down position (Z axis) and the worst case was recorded.
- Result = Reading + c.f (Correction factor)
- Correction factor = Antenna factor + Cable loss + 6 dB attenuator
- Distance extrapolation factor = 40 log (specific distance / test distance) (dB)
- This data is the Peak (PK) value.



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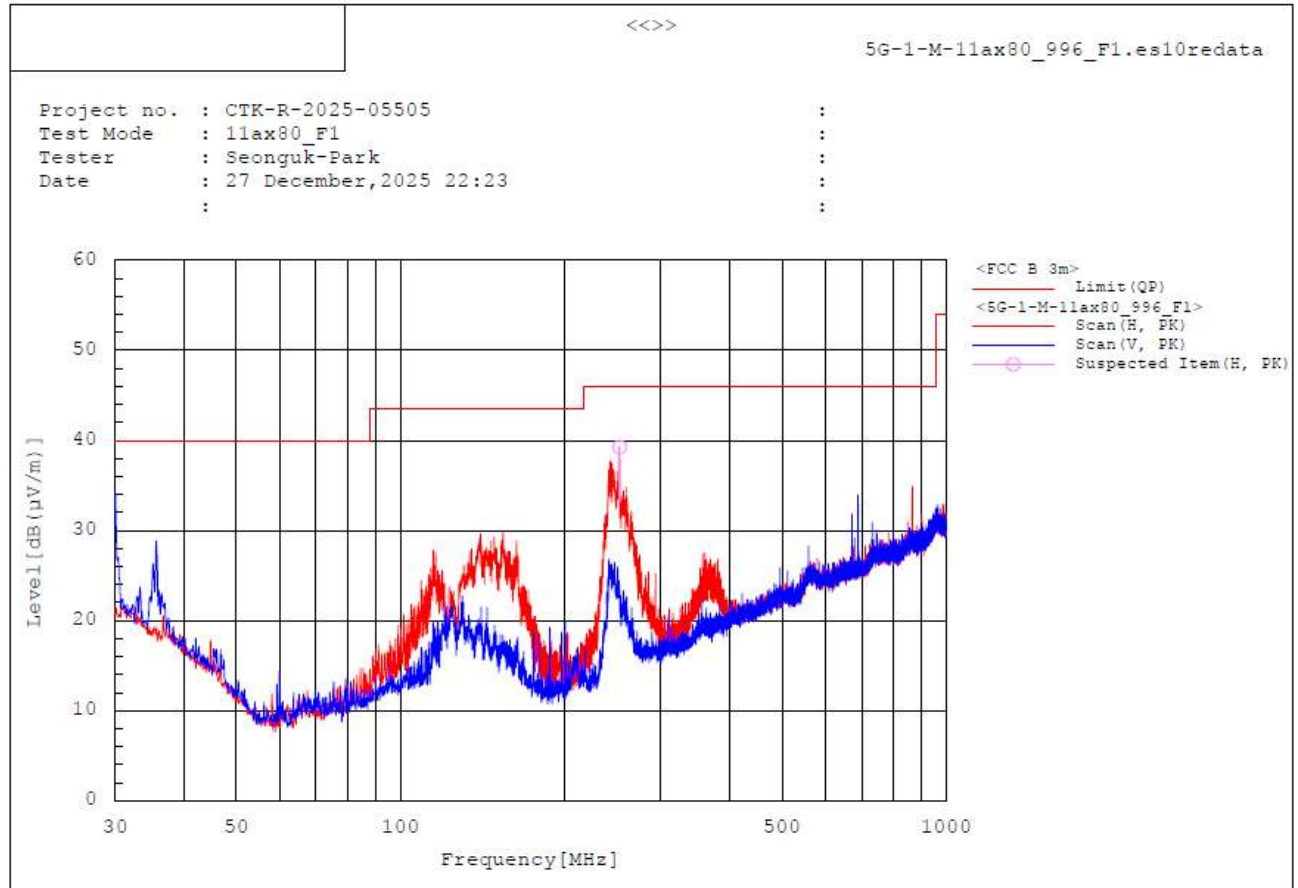
2) 30 MHz to 1 GHz

Test Mode : Transmitter_UNII 1(Worst Case)

The requirements are:

☒ Complies

Test Data :



Spectrum Selection

No.	Frequency [MHz]	Pol	Reading PK [dB(μV)]	c.f [dB(1/m)]	Result PK [dB(μV/m)]	Limit QP [dB(μV/m)]	Margin QP-PK [dB]	Height [cm]	Angle [deg]	Remark
1	251.936	H	49.6	-10.2	39.3	46.0	6.7	99.9	220.7	

Remark :

1. Measuring position : 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 lie-down 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



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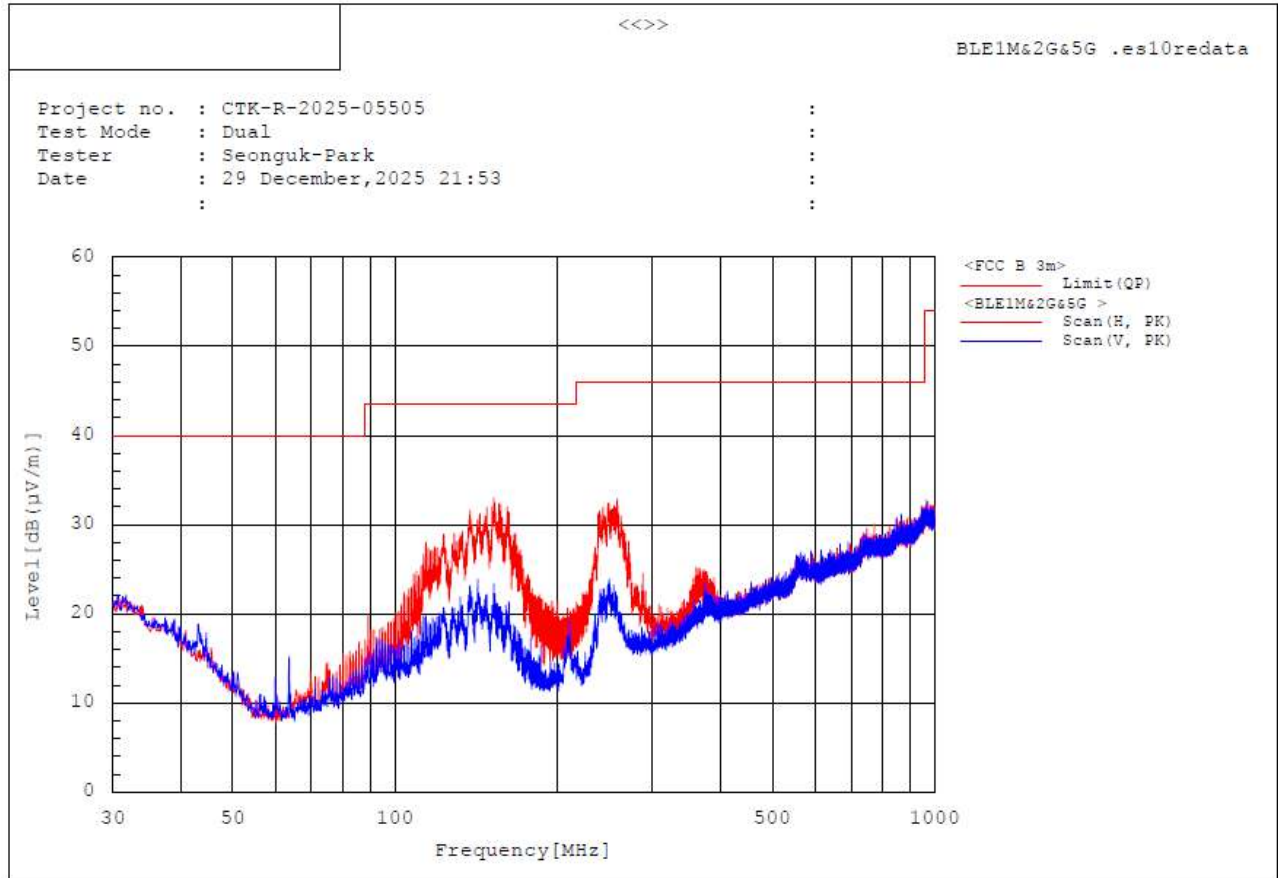
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Test Mode : Transmitter (Simultaneous transmissions DTS + 2.4 GHz + 5 GHz)

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 10 dB lower than the limit.

Remark :

- Measuring position : 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 lie-down position (Z axis) and the worst case was recorded.
- Result = Reading + c.f (Correction factor)
- Correction factor = Antenna factor + Cable loss + 6 dB attenuator - Amp gain



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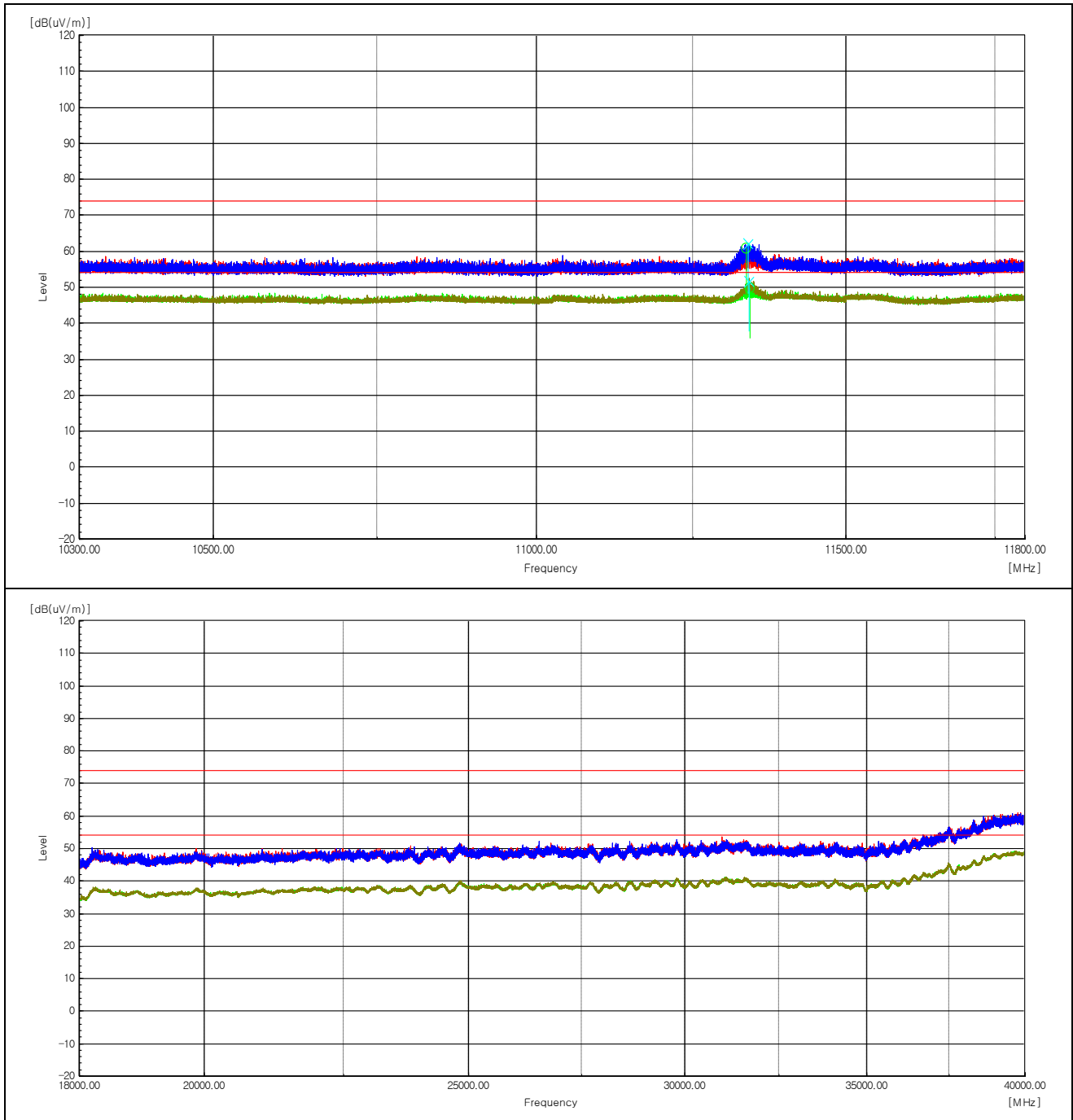
3) Above 1 GHz

Test Mode : Transmitter (Worst Case)

The requirements are:

☒ Complies

Test Data :





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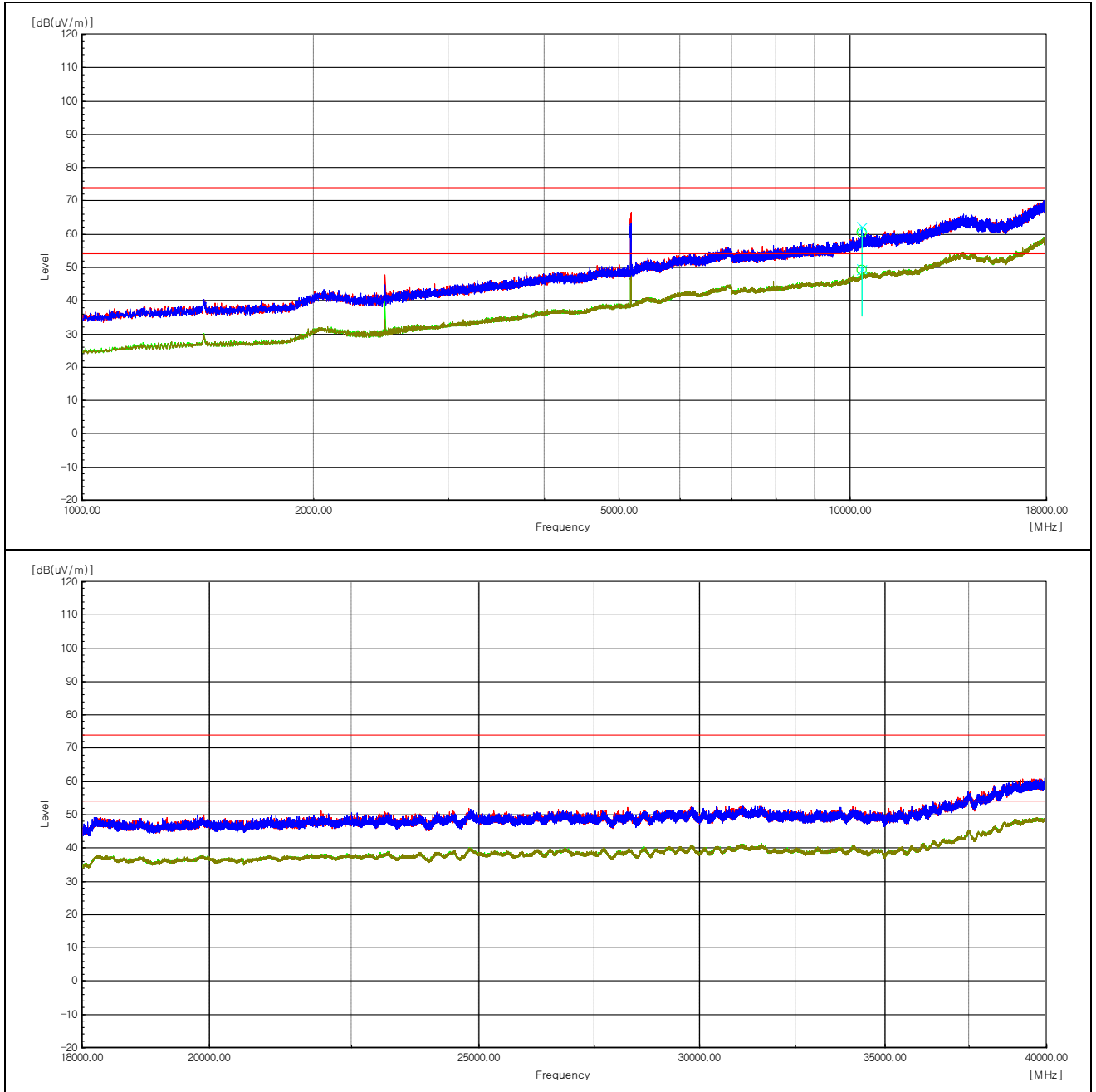
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Test Mode : Transmitter (Simultaneous transmissions DTS + 2.4 GHz + 5 GHz)

The requirements are:

☒ Complies



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Test Mode : Transmitter (802.11a, ANT0)

The requirements are:

☒ Complies

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 365.22	H	48.9	12.6	-----	61.50	-----	74.00	-----	12.50	-----	Peak
10 360.48	H	36.5	12.6	0.14	-----	49.24	-----	54.00	-----	4.76	Average
10 361.50	V	52.0	12.6	-----	64.60	-----	74.00	-----	9.40	-----	Peak
10 359.46	V	39.0	12.6	0.14	-----	51.74	-----	54.00	-----	2.26	Average

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 400.26	H	47.6	12.5	-----	60.10	-----	74.00	-----	13.90	-----	Peak
10 399.00	H	38.2	12.5	0.14	-----	50.84	-----	54.00	-----	3.16	Average
10 399.96	V	52.1	12.5	-----	64.60	-----	74.00	-----	9.40	-----	Peak
10 399.96	V	39.0	12.5	0.14	-----	51.64	-----	54.00	-----	2.36	Average

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 478.69	H	51.3	12.6	-----	63.90	-----	74.00	-----	10.10	-----	Peak
10 479.71	H	38.3	12.6	0.14	-----	51.04	-----	54.00	-----	2.96	Average
10 477.79	V	52.0	12.6	-----	64.60	-----	74.00	-----	9.40	-----	Peak
10 479.53	V	39.1	12.6	0.14	-----	51.84	-----	54.00	-----	2.16	Average

Ch.52(5 260 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 515.77	H	48.1	12.7	-----	60.80	-----	74.00	-----	13.20	-----	Peak
10 519.25	H	39.1	12.7	0.14	-----	51.94	-----	54.00	-----	2.06	Average
10 522.49	V	50.9	12.7	-----	63.60	-----	74.00	-----	10.40	-----	Peak
10 519.61	V	38.8	12.7	0.14	-----	51.64	-----	54.00	-----	2.36	Average

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 601.57	H	48.0	13.2	-----	61.20	-----	74.00	-----	12.80	-----	Peak
10 599.71	H	38.1	13.2	0.14	-----	51.44	-----	54.00	-----	2.56	Average
10 608.47	V	48.3	13.2	-----	61.50	-----	74.00	-----	12.50	-----	Peak
10 600.37	V	38.4	13.2	0.14	-----	51.74	-----	54.00	-----	2.26	Average

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 637.03	H	46.5	13.3	-----	59.80	-----	74.00	-----	14.20	-----	Peak
10 637.03	H	37.4	13.3	0.14	-----	50.84	-----	54.00	-----	3.16	Average
10 640.69	V	48.5	13.3	-----	61.80	-----	74.00	-----	12.20	-----	Peak
10 639.91	V	38.5	13.3	0.14	-----	51.94	-----	54.00	-----	2.06	Average

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Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 004.49	H	44.9	13.4	-----	58.30	-----	74.00	-----	15.70	-----	Peak
10 981.09	H	34.9	13.2	0.14	-----	48.24	-----	54.00	-----	5.76	Average
10 997.11	V	45.8	13.3	-----	59.10	-----	74.00	-----	14.90	-----	Peak
11 004.85	V	35.4	13.4	0.14	-----	48.94	-----	54.00	-----	5.06	Average

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 203.94	H	46.3	13.9	-----	60.20	-----	74.00	-----	13.80	-----	Peak
11 196.86	H	36.8	13.9	0.14	-----	50.84	-----	54.00	-----	3.16	Average
11 198.24	V	48.3	13.9	-----	62.20	-----	74.00	-----	11.80	-----	Peak
11 201.06	V	36.4	13.9	0.14	-----	50.44	-----	54.00	-----	3.56	Average

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 390.42	H	47.3	13.7	-----	61.00	-----	74.00	-----	13.00	-----	Peak
11 395.29	H	37.4	13.7	0.14	-----	51.24	-----	54.00	-----	2.76	Average
11 399.79	V	50.7	13.7	-----	64.40	-----	74.00	-----	9.60	-----	Peak
11 399.25	V	38.0	13.7	0.14	-----	51.84	-----	54.00	-----	2.16	Average

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 436.93	H	47.5	13.8	-----	61.30	-----	74.00	-----	12.70	-----	Peak
11 436.93	H	37.0	13.8	0.14	-----	50.94	-----	54.00	-----	3.06	Average
11 441.37	V	49.3	13.8	-----	63.10	-----	74.00	-----	10.90	-----	Peak
11 440.29	V	38.0	13.8	0.14	-----	51.94	-----	54.00	-----	2.06	Average

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 492.73	H	46.3	13.8	-----	60.10	-----	74.00	-----	13.90	-----	Peak
11 490.81	H	36.4	13.8	0.14	-----	50.34	-----	54.00	-----	3.66	Average
11 493.63	V	48.3	13.8	-----	62.10	-----	74.00	-----	11.90	-----	Peak
11 490.57	V	36.7	13.8	0.14	-----	50.64	-----	54.00	-----	3.36	Average

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 566.65	H	47.0	13.9	-----	60.90	-----	74.00	-----	13.10	-----	Peak
11 575.65	H	35.6	13.9	0.14	-----	49.64	-----	54.00	-----	4.36	Average
11 572.71	V	49.1	13.9	-----	63.00	-----	74.00	-----	11.00	-----	Peak
11 570.43	V	36.5	13.9	0.14	-----	50.54	-----	54.00	-----	3.46	Average

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Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 647.59	H	45.2	13.8	-----	59.00	-----	74.00	-----	15.00	-----	Peak
11 644.36	H	34.5	13.8	0.14	-----	48.44	-----	54.00	-----	5.56	Average
11 649.75	V	47.7	13.8	-----	61.50	-----	74.00	-----	12.50	-----	Peak
11 650.71	V	36.5	13.8	0.14	-----	50.44	-----	54.00	-----	3.56	Average

Remarks

1. Measuring position : 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 lie-down 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
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.

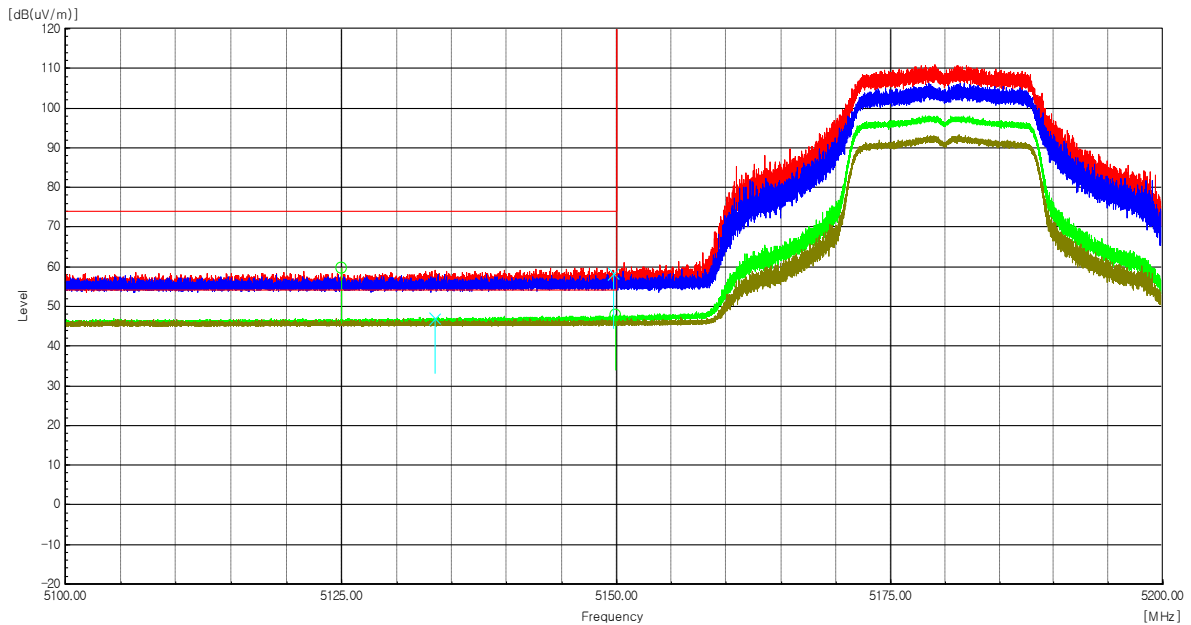


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Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 180 MHz
Channel :	36



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 124.95	H	55.9	3.8	-----	59.70	-----	74.00	-----	14.30	-----	Peak
5 149.90	H	43.9	3.8	0.14	-----	47.84	-----	54.00	-----	6.16	Average
5 149.70	V	54.4	3.8	-----	58.20	-----	74.00	-----	15.80	-----	Peak
5 133.47	V	43.3	3.8	0.14	-----	47.24	-----	54.00	-----	6.76	Average

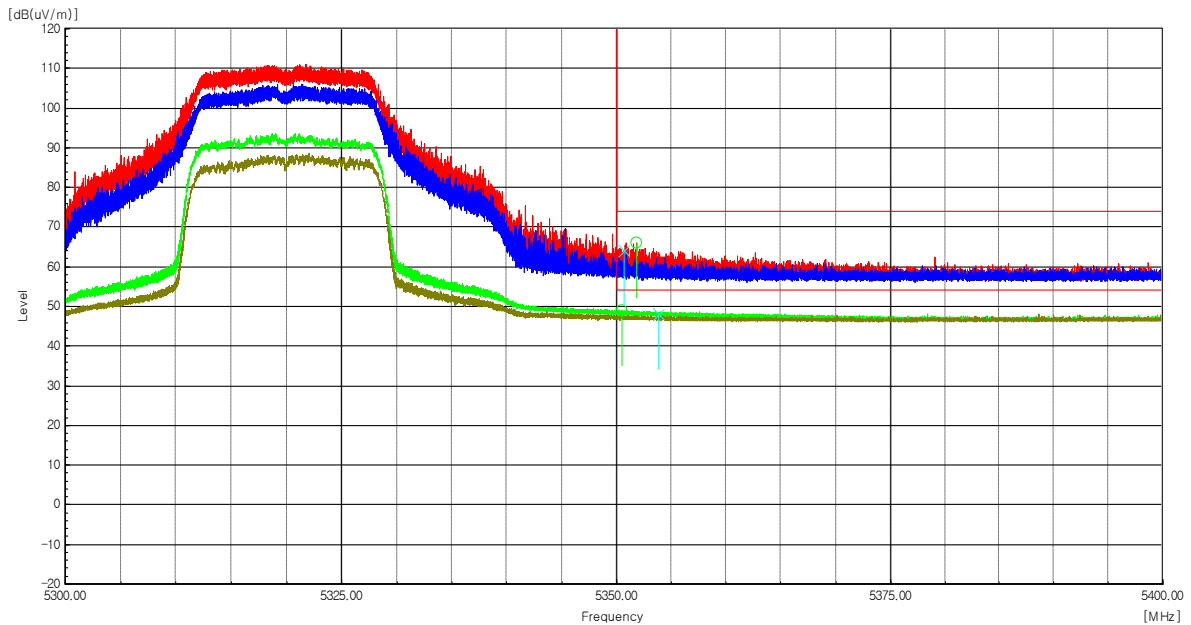
Radiated Restricted Band Edge Plot

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Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 320 MHz
Channel :	64



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 351.80	H	61.6	4.3	-----	65.90	-----	74.00	-----	8.10	-----	Peak
5 350.46	H	44.7	4.3	0.14	-----	49.14	-----	54.00	-----	4.86	Average
5 350.69	V	59.7	4.3	-----	64.00	-----	74.00	-----	10.00	-----	Peak
5 353.84	V	43.8	4.3	0.14	-----	48.24	-----	54.00	-----	5.76	Average

Radiated Restricted Band Edge Plot

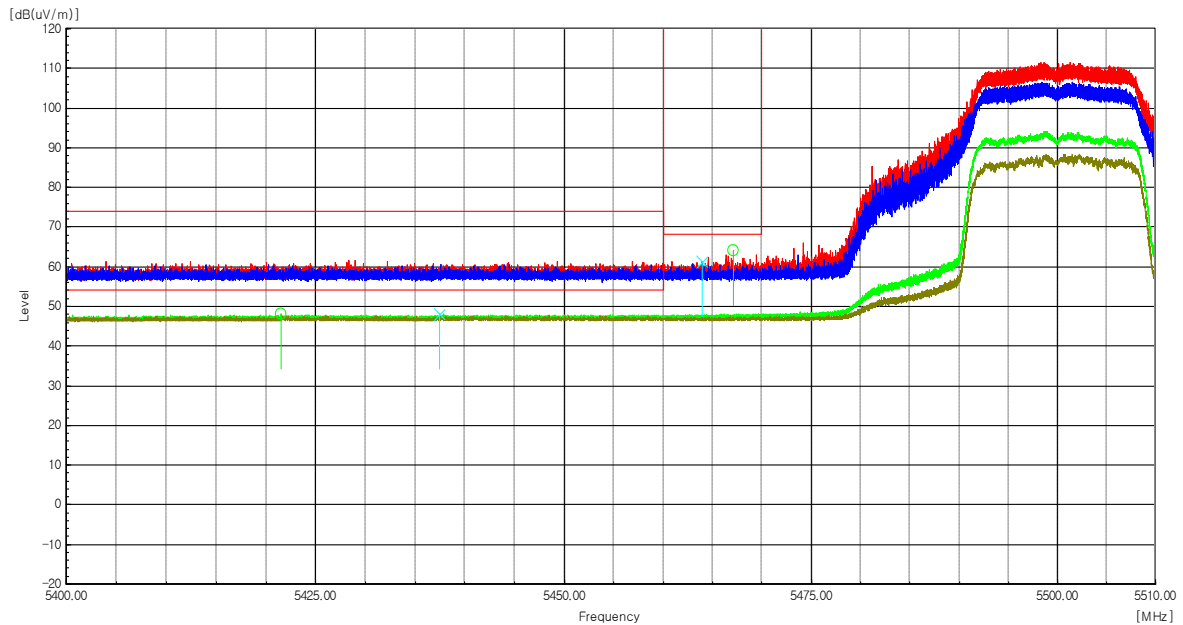


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Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 500 MHz
Channel :	100



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 467.09	H	59.2	4.9	-----	64.10	-----	68.20	-----	4.10	-----	Peak
5 421.53	H	43.2	4.8	0.14	-----	48.14	-----	54.00	-----	5.86	Average
5 463.95	V	56.5	4.9	-----	61.40	-----	68.20	-----	6.80	-----	Peak
5 437.49	V	43.1	4.9	0.14	-----	48.14	-----	54.00	-----	5.86	Average

Radiated Restricted Band Edge Plot

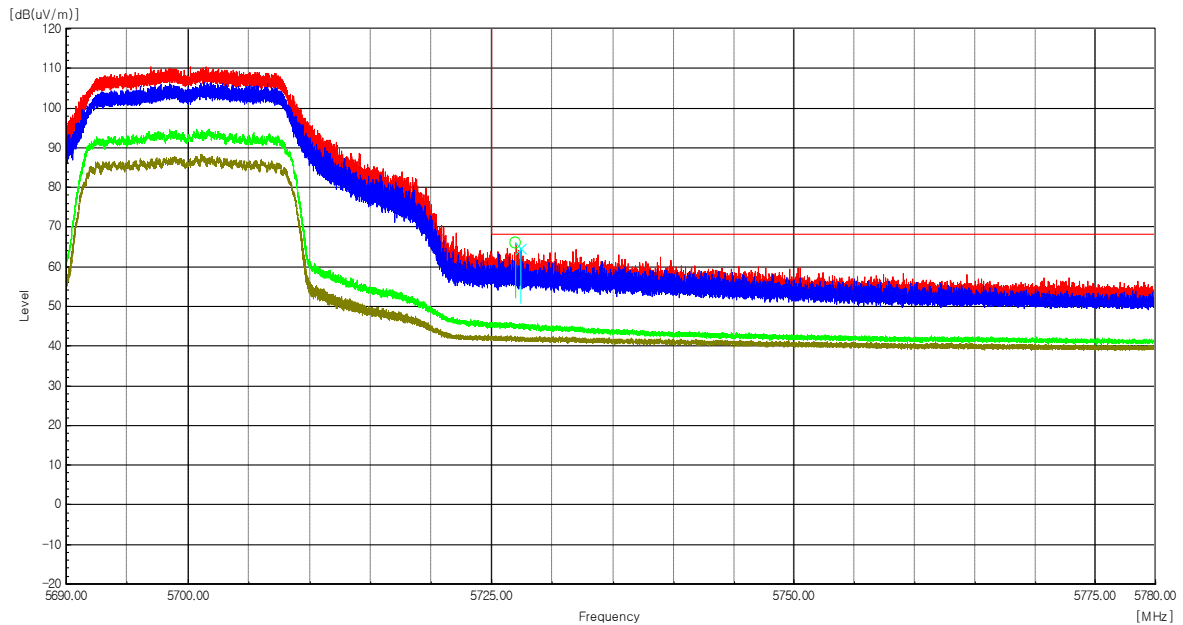


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Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 700 MHz
Channel :	140



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 726.99	H	60.7	5.4	-----	66.10	-----	68.20	-----	2.10	-----	Peak
5 727.38	V	59.2	5.4	-----	64.60	-----	68.20	-----	3.60	-----	Peak

Radiated Restricted Band Edge Plot

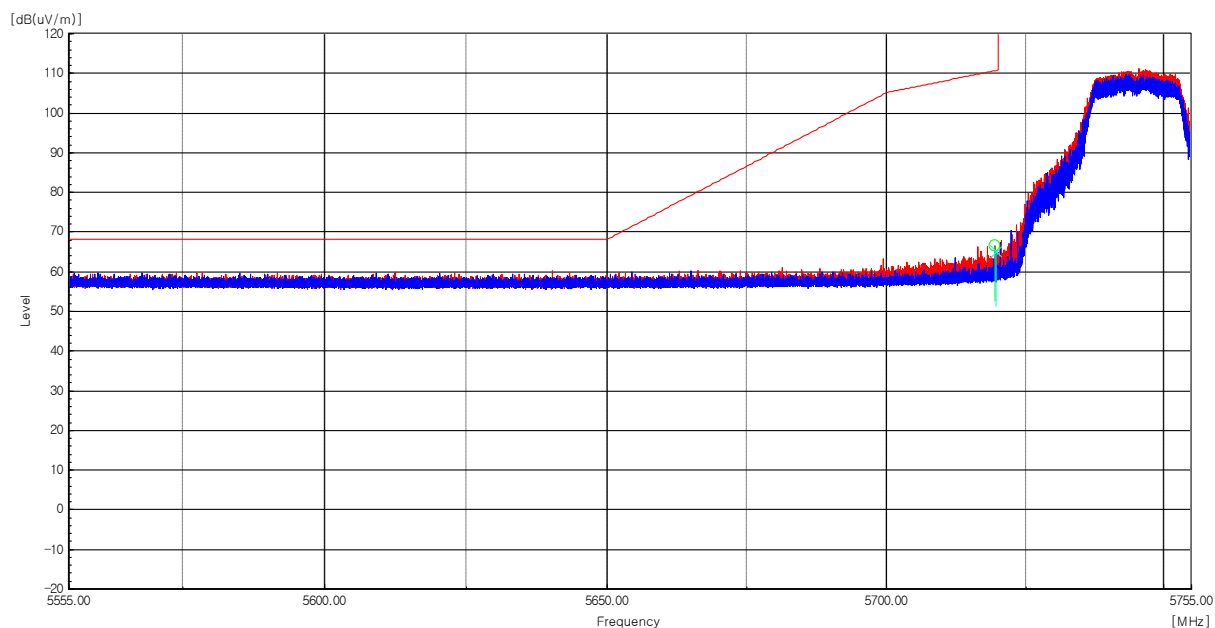


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Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 745 MHz
Channel :	149



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 719.56	H	61.1	5.4	-----	66.50	-----	110.70	-----	44.20	-----	Peak
5 719.73	V	59.7	5.4	-----	65.10	-----	110.70	-----	45.60	-----	Peak

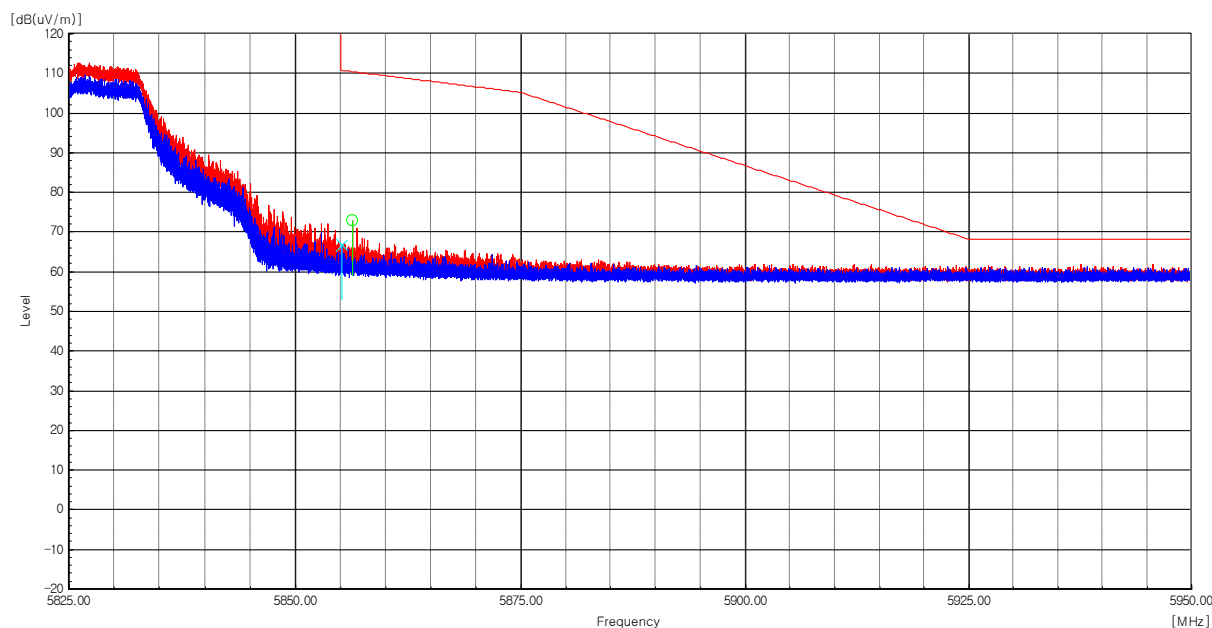
Radiated Restricted Band Edge Plot

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Worst Case Mode :	802.11a-ANT0
Worst Case Transfer Rate :	6 Mbps
Distance of Measurements :	3 Meters
Operating Frequency :	5 825 MHz
Channel :	165



Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
5 825.15	V	60.9	5.9	-----	66.80	-----	110.80	-----	44.00	-----	Peak
5 856.33	H	66.9	6.0	-----	72.90	-----	110.40	-----	37.50	-----	Peak

Radiated Restricted Band Edge Plot

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Test Mode : Transmitter (802.11a, ANT1)

The requirements are:

☒ Complies

Ch.36(5 180 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 359.46	H	50.0	12.6	-----	62.60	-----	74.00	-----	11.40	-----	Peak
10 356.16	H	39.1	12.6	0.14	-----	51.84	-----	54.00	-----	2.16	Average
10 361.56	V	50.2	12.6	-----	62.80	-----	74.00	-----	11.20	-----	Peak
10 360.06	V	37.5	12.6	0.14	-----	50.24	-----	54.00	-----	3.76	Average

Ch.40(5 200 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 404.22	H	49.0	12.5	-----	61.50	-----	74.00	-----	12.50	-----	Peak
10 399.18	H	39.2	12.5	0.14	-----	51.84	-----	54.00	-----	2.16	Average
10 398.04	V	48.8	12.5	-----	61.30	-----	74.00	-----	12.70	-----	Peak
10 399.06	V	37.3	12.5	0.14	-----	49.94	-----	54.00	-----	4.06	Average

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 479.23	H	50.4	12.6	-----	63.00	-----	74.00	-----	11.00	-----	Peak
10 480.31	H	38.7	12.6	0.14	-----	51.44	-----	54.00	-----	2.56	Average
10 477.25	V	51.1	12.6	-----	63.70	-----	74.00	-----	10.30	-----	Peak
10 480.55	V	36.8	12.6	0.14	-----	49.54	-----	54.00	-----	4.46	Average

Ch.52(5 260 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 518.38	H	49.2	12.7	-----	61.90	-----	74.00	-----	12.10	-----	Peak
10 520.11	H	35.8	12.7	0.14	-----	48.64	-----	54.00	-----	5.36	Average
10 526.44	V	49.2	12.8	-----	62.00	-----	74.00	-----	12.00	-----	Peak
10 521.64	V	36.8	12.7	0.14	-----	49.64	-----	54.00	-----	4.36	Average

Ch.60(5 300 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 596.23	H	48.4	13.2	-----	61.60	-----	74.00	-----	12.40	-----	Peak
10 599.83	H	38.1	13.2	0.14	-----	51.44	-----	54.00	-----	2.56	Average
10 598.39	V	49.7	13.2	-----	62.90	-----	74.00	-----	11.10	-----	Peak
10 596.35	V	37.8	13.2	0.14	-----	51.14	-----	54.00	-----	2.86	Average

Ch.64(5 320 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
10 638.47	H	47.5	13.3	-----	60.80	-----	74.00	-----	13.20	-----	Peak
10 640.87	H	37.2	13.3	0.14	-----	50.64	-----	54.00	-----	3.36	Average
10 635.53	V	49.4	13.3	-----	62.70	-----	74.00	-----	11.30	-----	Peak
10 639.79	V	37.4	13.3	0.14	-----	50.84	-----	54.00	-----	3.16	Average

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Ch.100(5 500 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 001.31	H	46.4	13.3	-----	59.70	-----	74.00	-----	14.30	-----	Peak
11 000.35	H	34.8	13.3	0.14	-----	48.24	-----	54.00	-----	5.76	Average
10 998.31	V	50.0	13.3	-----	63.30	-----	74.00	-----	10.70	-----	Peak
10 998.97	V	38.2	13.3	0.14	-----	51.64	-----	54.00	-----	2.36	Average

Ch.120(5 600 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 202.14	H	47.9	13.9	-----	61.80	-----	74.00	-----	12.20	-----	Peak
11 199.68	H	35.2	13.9	0.14	-----	49.24	-----	54.00	-----	4.76	Average
11 203.76	V	49.3	13.9	-----	63.20	-----	74.00	-----	10.80	-----	Peak
11 200.40	V	37.5	13.9	0.14	-----	51.54	-----	54.00	-----	2.46	Average

Ch.140(5 700 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 403.50	H	47.4	13.7	-----	61.10	-----	74.00	-----	12.90	-----	Peak
11 396.49	H	36.3	13.7	0.14	-----	50.14	-----	54.00	-----	3.86	Average
11 398.46	V	49.5	13.7	-----	63.20	-----	74.00	-----	10.80	-----	Peak
11 393.66	V	37.5	13.7	0.14	-----	51.34	-----	54.00	-----	2.66	Average

Ch.144(5 720 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 438.49	H	46.7	13.8	-----	60.50	-----	74.00	-----	13.50	-----	Peak
11 433.93	H	35.0	13.8	0.14	-----	48.94	-----	54.00	-----	5.06	Average
11 438.31	V	49.4	13.8	-----	63.20	-----	74.00	-----	10.80	-----	Peak
11 441.85	V	36.6	13.8	0.14	-----	50.54	-----	54.00	-----	3.46	Average

Ch.149(5 745 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 488.53	H	48.1	13.8	-----	61.90	-----	74.00	-----	12.10	-----	Peak
11 488.59	H	35.2	13.8	0.14	-----	49.14	-----	54.00	-----	4.86	Average
11 494.11	V	49.5	13.8	-----	63.30	-----	74.00	-----	10.70	-----	Peak
11 488.53	V	38.0	13.8	0.14	-----	51.94	-----	54.00	-----	2.06	Average

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 573.01	H	46.3	13.9	-----	60.20	-----	74.00	-----	13.80	-----	Peak
11 569.71	H	34.8	13.9	0.14	-----	48.84	-----	54.00	-----	5.16	Average
11 570.73	V	49.2	13.9	-----	63.10	-----	74.00	-----	10.90	-----	Peak
11 570.01	V	36.3	13.9	0.14	-----	50.34	-----	54.00	-----	3.66	Average

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Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Reading [dBuV]	c.f [dB(1/m)]	Duty Cycle Factor [dB]	Level PK [dBuV/m]	Level AV [dBuV/m]	Limit PK [dBuV/m]	Limit AV [dBuV/m]	Margin PK [dB]	Margin AV [dB]	Note
11 652.70	H	44.7	13.8	-----	58.50	-----	74.00	-----	15.50	-----	Peak
11 708.02	H	34.0	14.1	0.14	-----	48.24	-----	54.00	-----	5.76	Average
11 646.82	V	48.6	13.8	-----	62.40	-----	74.00	-----	11.60	-----	Peak
11 648.43	V	35.4	13.8	0.14	-----	49.34	-----	54.00	-----	4.66	Average

Remarks

1. Measuring position : 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 lie-down 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
4. The 18 GHz end had no signal detected. As can be seen from the conducted spurious emission test, no signal was detected in the section.