



TEST REPORT

KCTL Inc. 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea TEL: 82-31-285-0894 FAX: 82-505-299-8311 www.kctl.co.kr	Report No.: KR19-SRF0053-A Page (1) of (21)	
1. Client		
◦ Name : CITECH CO.,LTD. ◦ Address : 11F, 932, Yangjae-daero, Songpa-gu, Seoul, Republic of Korea ◦ Date of Receipt : 2019-02-19		
2. Use of Report : -		
3. Name of Product and Model : All-in-One Player / RS201		
4. Manufacturer and Country of Origin : CITECH CO.,LTD. / Korea		
5. FCC ID : 2ANYL-RS201		
6. Date of Test : 2019-04-22 to 2019-04-26		
7. Test Standards : FCC Part 15 Subpart C, 15.247		
8. Test Results : Refer to the test result in the test report		
Affirmation	Tested by  Name : Myeonghwa Jang (Signature)	Technical Manager  Name :Seungyong Kim (Signature)
2019-05-10		
KCTL Inc.		
As a test result of the sample which was submitted from the client, this report does not guarantee the whole product quality. This test report should not be used and copied without a written agreement by KCTL Inc.		

Report revision history

Date	Revision	Page No
2019-05-02	Initial report	-
2019-05-10	Updated antenna information	4, 5

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1. General information

Client : CITECH CO.,LTD.
 Address : 11F, 932, Yangjae-daero, Songpa-gu, Seoul, Republic of Korea
 Manufacturer : CITECH CO.,LTD.
 Address : 11F, 932, Yangjae-daero, Songpa-gu, Seoul, Republic of Korea
 Laboratory : KCTL Inc.
 Address : 65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
 Accreditations : FCC Site Designation No: KR0040, FCC Site Registration No: 687132
 VCCI Registration No. : R-3327, G-198, C-3706, T-1849
 Industry Canada Registration No. : 8035A-2
 KOLAS No.: KT231

2. Device information

Equipment under test : All-in-One Player
 Model : RS201
 Derivative model : RS201A, RS201B, RS201C, RS201D, RS201E, RS201F, RS201G, RS201H, RS201I, RS201J, RS201K, RS201L, RS201N, RS201M, RS201O, RS201P, RS201Q, RS201R, RS201S, RS201T, RS201U, RS201V, RS201W, RS201X, RS201Y, RS201Z
 Frequency range : Bluetooth(BDR/EDR/BLE)_2 402 MHz ~ 2 480 MHz
 WIFI(802.11b/g/n HT20)_2 412 MHz ~ 2 462 MHz
 WIFI(802.11n HT40)_2 422 MHz ~ 2 452 MHz
 WIFI(802.11a/n20)_5 180 MHz ~ 5 240 MHz (UNII-1)
 5 745 MHz ~ 5 825 MHz (UNII-3)
 WIFI(802.11n HT40)_5 190 MHz ~ 5 230 MHz (UNII-1)
 5 755 MHz ~ 5 795 MHz (UNII-3)
 Modulation technique : Bluetooth(BDR/EDR)_GFSK, $\pi/4$ DQPSK, 8DPSK
 Bluetooth(BLE)_GFSK
 WIFI(802.11a/b/g/n(HT20/40))_DSSS, OFDM
 Number of channels : Bluetooth(BDR/EDR)_79ch
 Bluetooth(BLE)_40 ch
 2.4 GHz: 11 ch (802.11b/g/n HT20), 7 ch (802.11n HT40)
 5.2 GHz (UNII 1): 4 ch (802.11a/n HT20), 2 ch (802.11n HT40)
 5.8 GHz (UNII 3): 5 ch (802.11a/n HT20), 2 ch (802.11n HT40)
 Power source : DC 24 V
 Antenna specification : PCB Pattern Antenna
 Antenna gain : 4.07 dBi (Bluetooth, WIFI 2.4 GHz), 4.57 dBi (WIFI 5 GHz)
 Software version : 1.1.09
 Hardware version : Rev 1.0
 Test device serial No. : N/A
 Operation temperature : 0 °C ~ 40 °C

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	Power source
Adaptor	ChungKwangTech Inc.	ADS-120QL-19-3 240120E	-	100-240V, 50/60Hz, 1.6A

2.2. Information about derivative model

The basic and derivative model are electrically identical.

The derivative models is only for the simplified derivation based on buyer's model name.

2.3. Frequency/channel operations

This device contains the following capabilities:

802.11a/b/g/n(HT20/40), Bluetooth(BDR, EDR), Bluetooth Low Energy

Ch.	Frequency (MHz)
00	2 402
.	.
19	2 440
.	.
39	2 480

Table 2.3.1. Bluetooth Low Energy

3. Antenna requirement

Requirement of FCC part section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

- The transmitter has permanently attached UFL type PCB Pattern Antenna.

4. Summary of tests

FCC Part section(s)	Parameter	Test results
15.247(b)(3)	Maximum peak output power	NT(Note ¹)
15.247(e)	Peak power spectral density	NT(Note ¹)
15.247(a)(2)	6 dB channel bandwidth	NT(Note ¹)
15.247(d), 15.205(a), 15.209(a)	Spurious emission	Pass
15.207(a)	Conducted emissions	Pass

Notes:

- Test was performed by modular transmitter (Model Name: RTL8821AE, FCC ID: TX2-RTL8821AE, Test Report No. FR342603AD issued on 02, July, 2013 by SPORTON International Inc.)
- All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- According to exploratory test no any obvious emission were detected from 9 kHz to 30 MHz. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
- The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in X orientation
- The test procedure(s) in this report were performed in accordance as following.
 - ANSI C63.10-2013

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of $k=2$ to indicated a 95 % level of confidence. The measurement data shown herein meets or exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

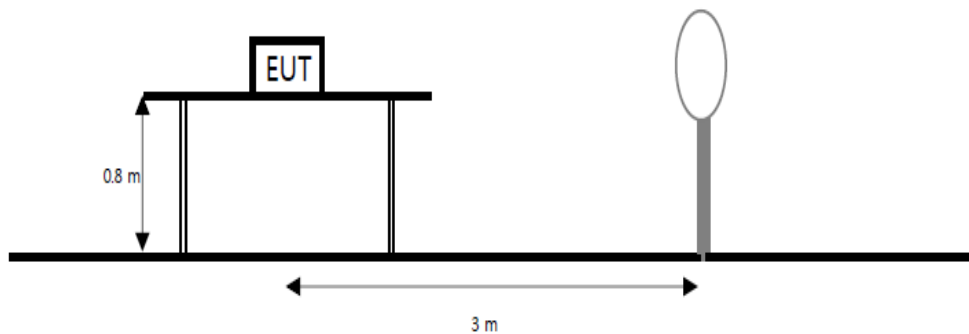
Parameter	Expanded uncertainty	
Radiated spurious emissions	9 kHz ~ 30 MHz	2.28 dB
	30 MHz ~ 300 MHz	4.98 dB
	300 MHz ~ 1 000 MHz	5.14 dB
	1 GHz ~ 6 GHz	6.70 dB
	Above 6 GHz	6.60 dB
Conducted emissions	9 kHz ~ 150 kHz	3.66 dB
	150 kHz ~ 30 MHz	3.26 dB

6. Test results

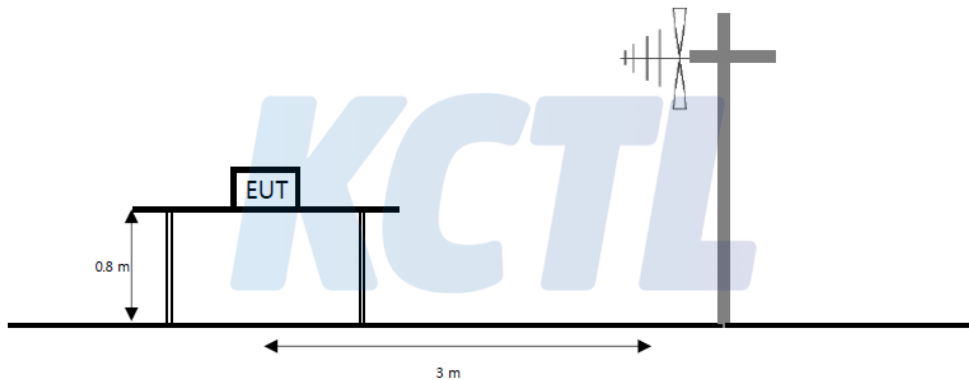
6.1. Spurious Emission, Band Edge and Restricted bands

Test setup

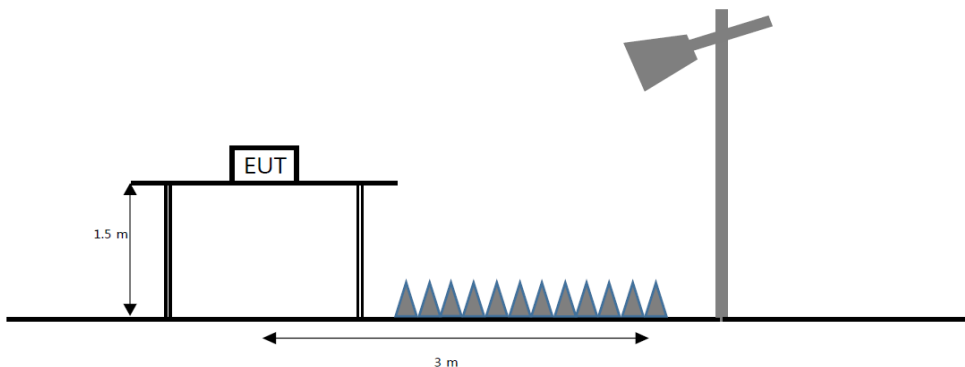
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 kHz to 30 MHz Emissions



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 MHz to 1 GHz emissions.



The diagram below shows the test setup that is utilized to make the measurements for emission from 1 GHz to the tenth harmonic of the highest fundamental frequency or to 40 GHz emissions, whichever is lower.



Limit

According to section 15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field strength ($\mu\text{V/m}$)	Measurement distance (m)
0.009 - 0.490	2 400/F(kHz)	300
0.490 - 1.705	24 000/F(kHz)	30
1.705 - 30	30	30
30 - 88	100**	3
88 - 216	150**	3
216 - 960	200**	3
Above 960	500	3

**Except as provided in paragraph (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 or 470–806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., Section 15.231 and 15.241.

According to section 15.205(a) and (b), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.009 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
0.495 - 0.505	16.694 75 - 16.695 25	608 - 614	5.35 - 5.46
2.173 5 - 2.190 5	16.804 25 - 16.804 75	960 - 1 240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1 300 - 1 427	8.025 - 8.5
4.177 25 - 4.177 75	37.5 - 38.25	1 435 - 1 626.5	9.0 - 9.2
4.207 25 - 4.207 75	73 - 74.6	1 645.5 - 1 646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1 660 - 1 710	10.6 - 12.7
6.267 75 - 6.268 25	108 - 121.94	1 718.8 - 1 722.2	13.25 - 13.4
6.311 75 - 6.312 25	123 - 138	2 200 - 2 300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2 310 - 2 390	15.35 - 16.2
8.362 - 8.366	156.524 75 - 156.525	2 483.5 - 2 500	17.7 - 21.4
8.376 25 - 8.386 75	25	2 690 - 2 900	22.01 - 23.12
8.414 25 - 8.414 75	156.7 - 156.9	3 260 - 3 267	23.6 - 24.0
12.29 - 12.293	162.012 5 - 167.17	3 332 - 3 339	31.2 - 31.8
12.519 75 - 12.520 25	167.72 - 173.2	3 345.8 - 3 358	36.43 - 36.5
12.576 75 - 12.577 25	240 - 285	3 600 - 4 400	Above 38.6
13.36 - 13.41	322 - 335.4		

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 1 000 MHz, compliance with the limits in section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1 000 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.

Test procedure

ANSI C63.10-2013

Test settings**Peak field strength measurements**

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in table
3. VBW $\geq$ (3 $\times$ RBW)
4. Detector = peak
5. Sweep time = auto
6. Trace mode = max hold
7. Allow sweeps to continue until the trace stabilizes

Table. RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1 000 MHz	100 kHz to 120 kHz
> 1 000 MHz	1 MHz

Average field strength measurements**Trace averaging with continuous EUT transmission at full power**

If the EUT can be configured or modified to transmit continuously ($D \geq 98\%$), then the average emission levels shall be measured using the following method (with EUT transmitting continuously):

1. RBW = 1 MHz (unless otherwise specified).
2. VBW $\geq$ (3 $\times$ RBW).
3. Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied, then the detector mode shall be set to peak.
4. Averaging type = power (i.e., rms):
 - 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
 - 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.
5. Sweep time = auto.
6. Perform a trace average of at least 100 traces.

Trace averaging across ON and OFF times of the EUT transmissions followed by duty cycle correction

If continuous transmission of the EUT ($D \geq 98\%$) cannot be achieved and the duty cycle is constant (duty cycle variations are less than $\pm 2\%$), then the following procedure shall be used:

1. The EUT shall be configured to operate at the maximum achievable duty cycle.
2. Measure the duty cycle D of the transmitter output signal as described in 11.6.
3. RBW = 1 MHz (unless otherwise specified).
4. VBW $\geq [3 \times \text{RBW}]$.
5. Detector = RMS (power averaging), if $[\text{span} / (\# \text{ of points in sweep})] \leq (\text{RBW} / 2)$. Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this

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condition cannot be satisfied, then the detector mode shall be set to peak.

6. Averaging type = power (i.e., rms):

- 1) As an alternative, the detector and averaging type may be set for linear voltage averaging.
- 2) Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.

7. Sweep time = auto.

8. Perform a trace average of at least 100 traces.

9. A correction factor shall be added to the measurement results prior to comparing with the emission limit to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:

- 1) If power averaging (rms) mode was used in step f), then the applicable correction factor is $[10 \log (1 / D)]$, where D is the duty cycle.
- 2) If linear voltage averaging mode was used in step f), then the applicable correction factor is $[20 \log (1 / D)]$, where D is the duty cycle.
- 3) If a specific emission is demonstrated to be continuous ($D \geq 98\%$) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Notes:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1 GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz ($\geq 1/T$) for Average detection (AV) at frequency above 1 GHz. (where T = pulse width)

2. $f < 30$ MHz, extrapolation factor of 40 dB/decade of distance. $F_d = 40 \log(D_m/D_s)$

$f \geq 30$ MHz, extrapolation factor of 20 dB/decade of distance. $F_d = 20 \log(D_m/D_s)$

Where:

F_d = Distance factor in dB

D_m = Measurement distance in meters

D_s = Specification distance in meters

3. Factors(dB) = Antenna factor(dB/m) + Cable loss(dB) + or Amp. gain(dB) + or F_d (dB)

4. The worst-case emissions are reported however emissions whose levels were not within 20 dB of respective limits were not reported.

5. Average test would be performed if the peak result were greater than the average limit.

6. ¹⁾ mean is restricted band.

7. According to part 15.31(f)(2), an extrapolation factor of 40 dB/decade is applied because

8. measured distance of radiated emission is 3 m.

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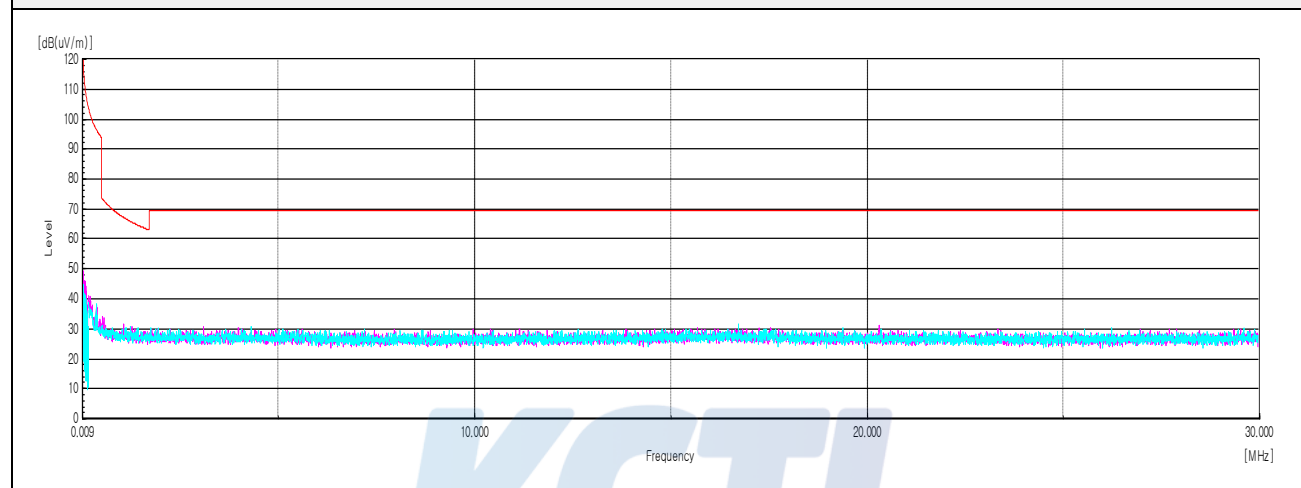
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**Test results (Below 30 MHz) –Worst case: Lowest frequency**

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
No spurious emissions were detected within 20 dB of the limit.									

Horizontal/Vertical

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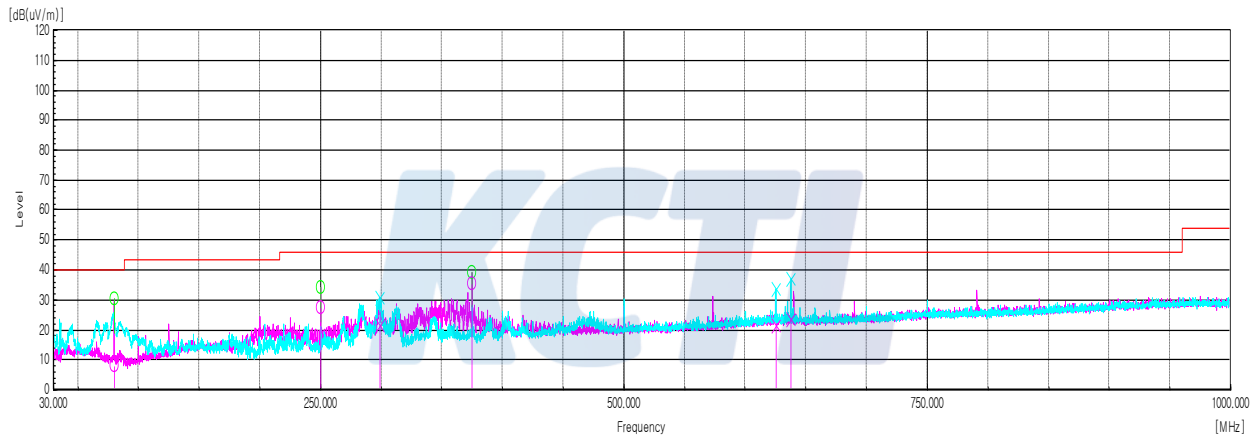
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**Test results (Below 1 000 MHz) –Worst case: Lowest frequency**

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Quasi peak data									
79.83	H	23.90	1.88	-30.67	13.09	-15.70	8.20	40.00	31.80
249.95	H	38.40	1.24	-32.47	20.23	-11.00	27.40	46.00	18.60
299.18	V	30.20	3.87	-31.95	19.18	-8.90	21.30	46.00	24.70
374.96	H	42.10	4.39	-32.06	21.07	-6.60	35.50	46.00	10.50
625.10	V	21.70	5.84	-30.74	24.70	-0.20	21.50	46.00	24.50
637.46	V	23.60	5.90	-30.85	24.75	-0.20	23.40	46.00	22.60

Horizontal/Vertical

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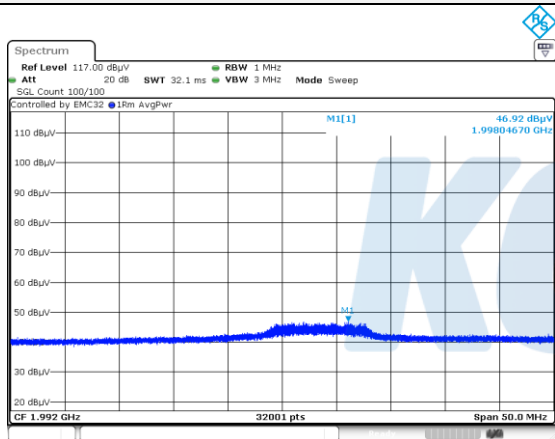
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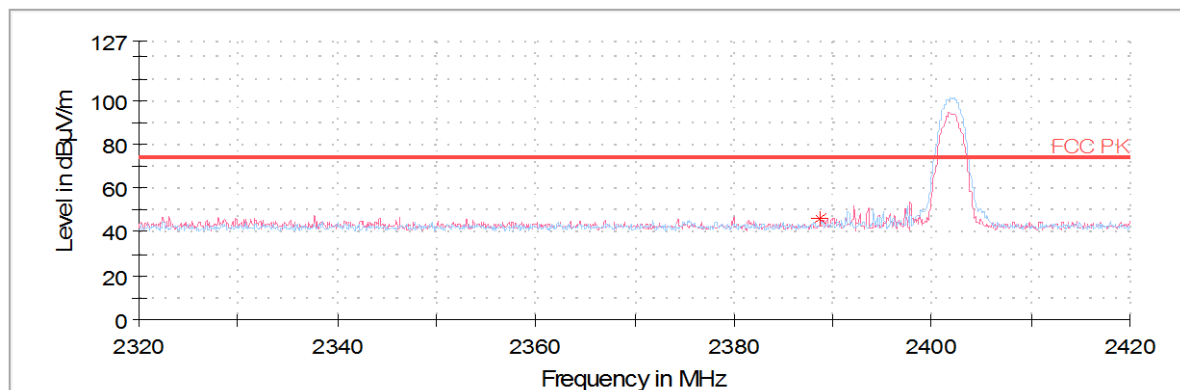
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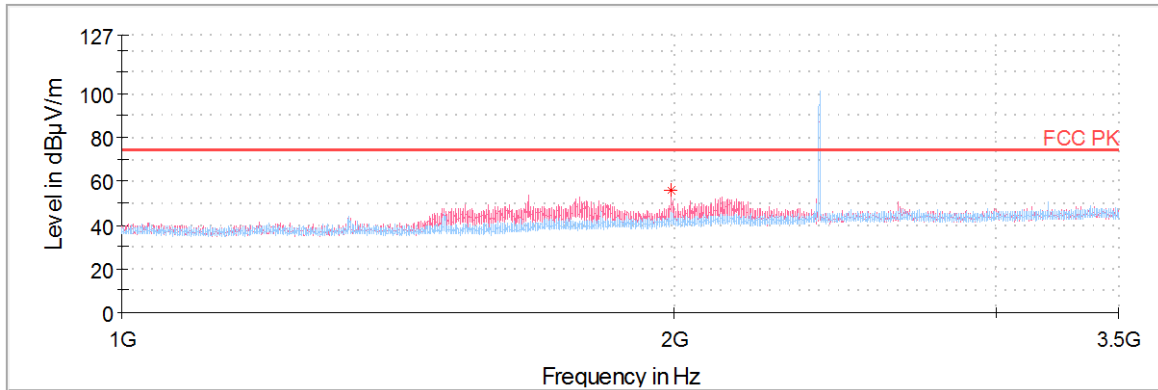
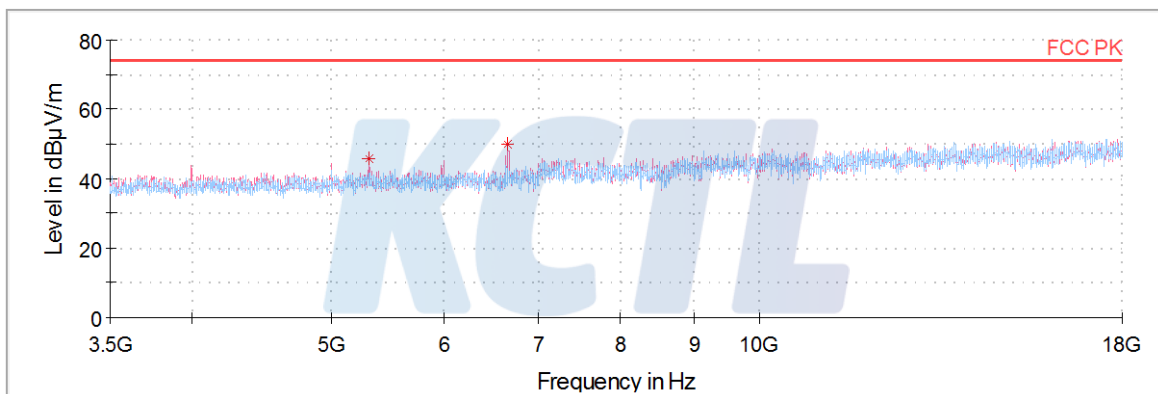
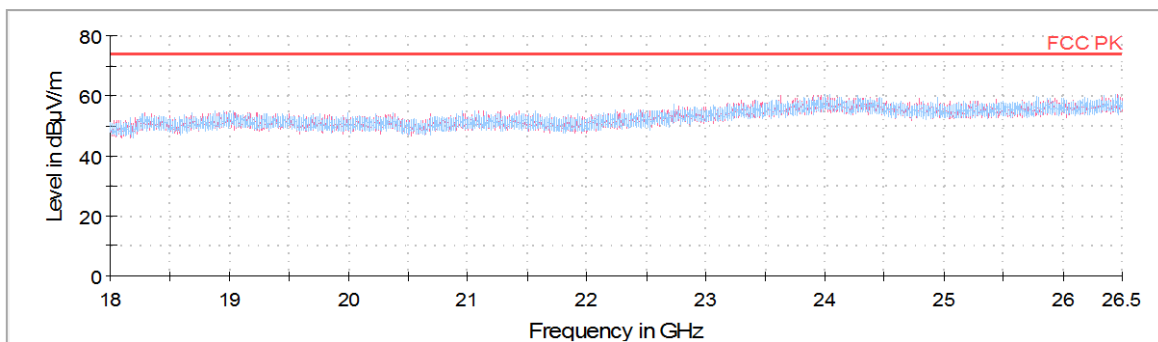
**Test results (Above 1 000 MHz)****Low Channel**

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data									
1 998.05	V	60.63	3.42	-36.21	27.79	-	55.63	74.00	18.37
2 388.67 ¹⁾	H	50.17	3.70	-36.22	28.54	-	46.19	74.00	27.81
5 317.48	V	67.35	5.67	-60.54	33.38	-	45.86	74.00	28.14
6 658.73	V	69.15	6.44	-61.10	35.26	-	49.75	74.00	24.25
Average Data									
1 998.05	V	46.92	3.42	-36.21	27.79	-	41.92	54.00	12.08

Average data**Average data**

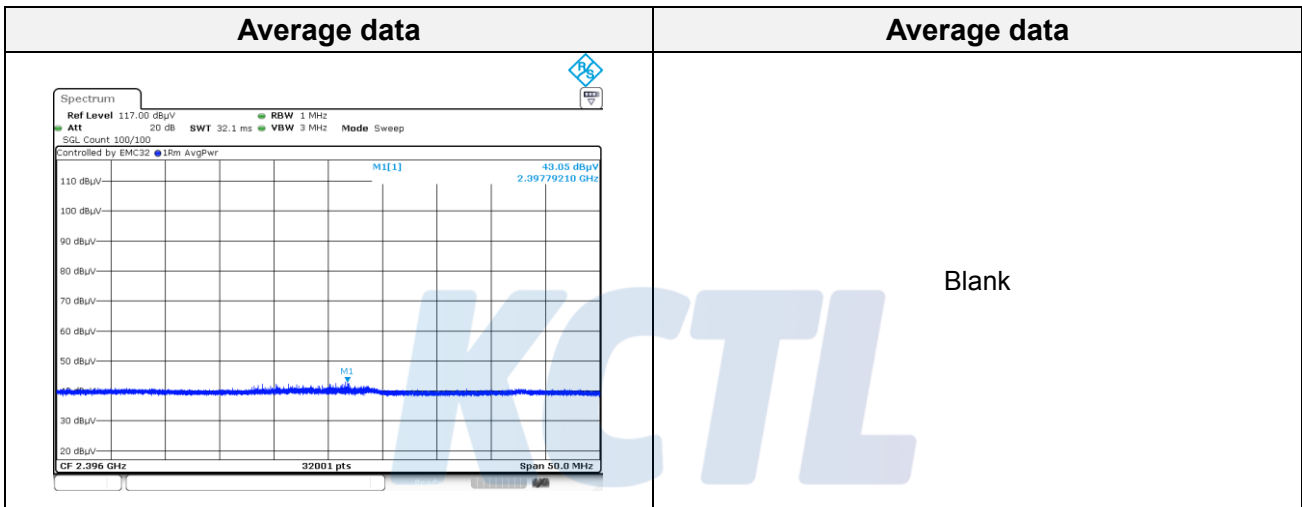
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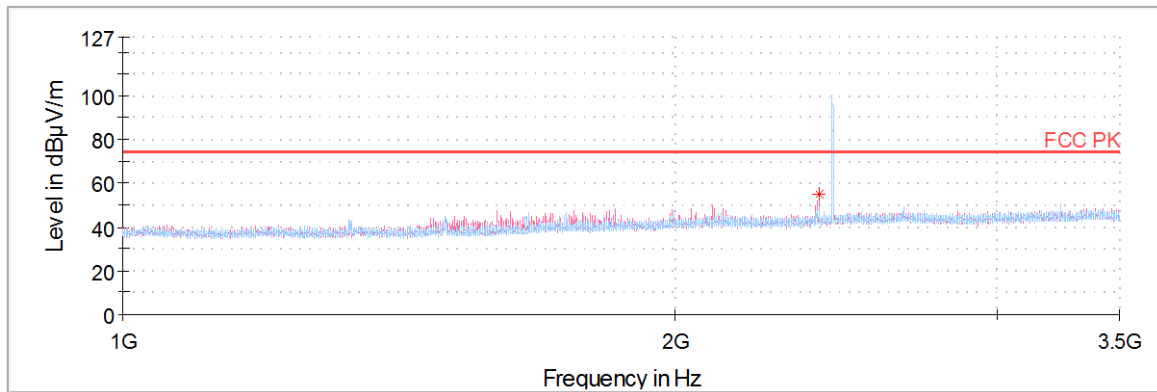
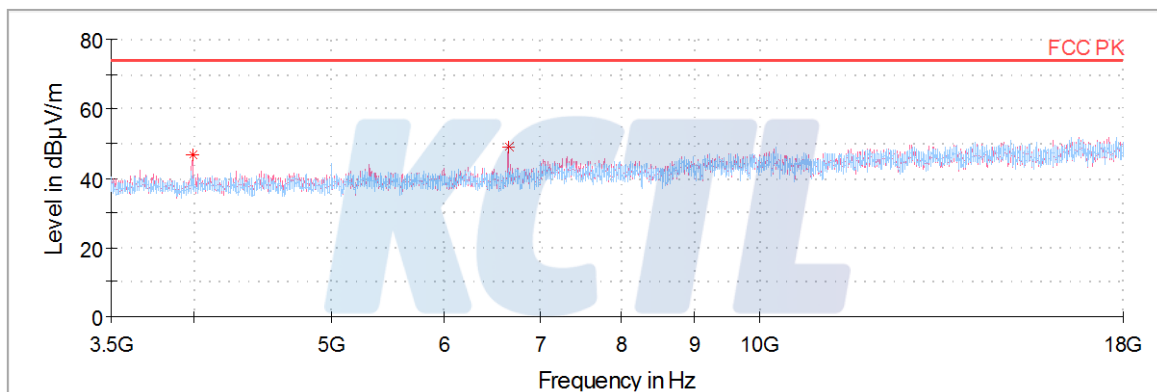
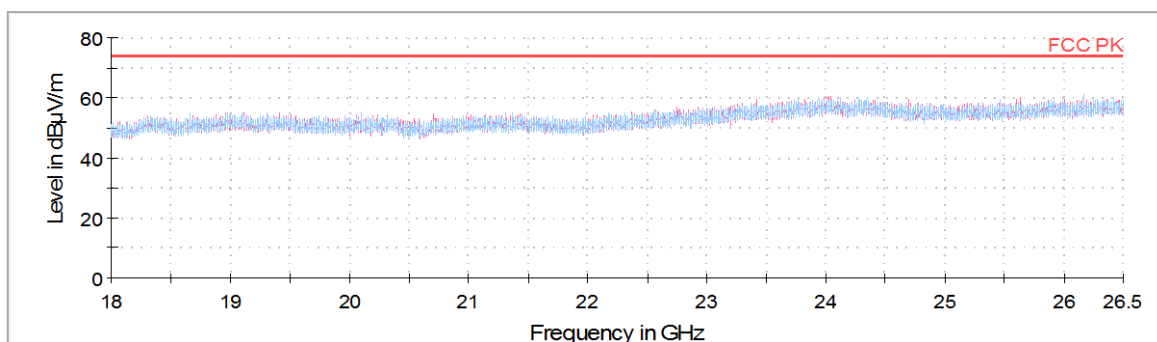
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 3.5 GHz**Horizontal/Vertical for 3.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 26.5 GHz**

Middle Channel

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data									
2 397.79	V	58.63	3.71	-36.21	28.56	-	54.69	74.00	19.31
3 996.17 ¹⁾	V	70.83	4.78	-61.19	32.39	-	46.81	74.00	27.19
6 655.56	V	68.26	6.44	-61.10	35.25	-	48.85	74.00	25.15
Average Data									
2 397.79	V	43.05	3.71	-36.21	28.56	-	39.11	54.00	14.89



Horizontal/Vertical for 1 GHz ~ 3.5 GHz**Horizontal/Vertical for 3.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 26.5 GHz**

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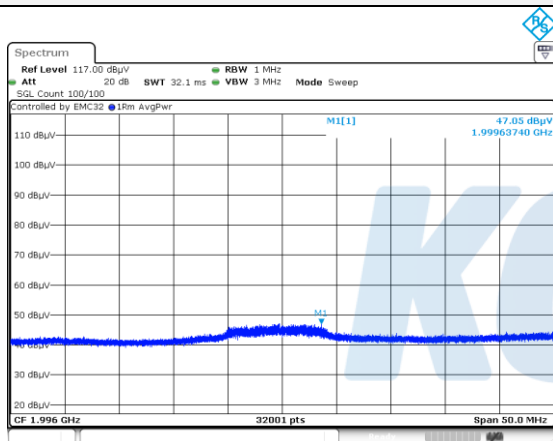
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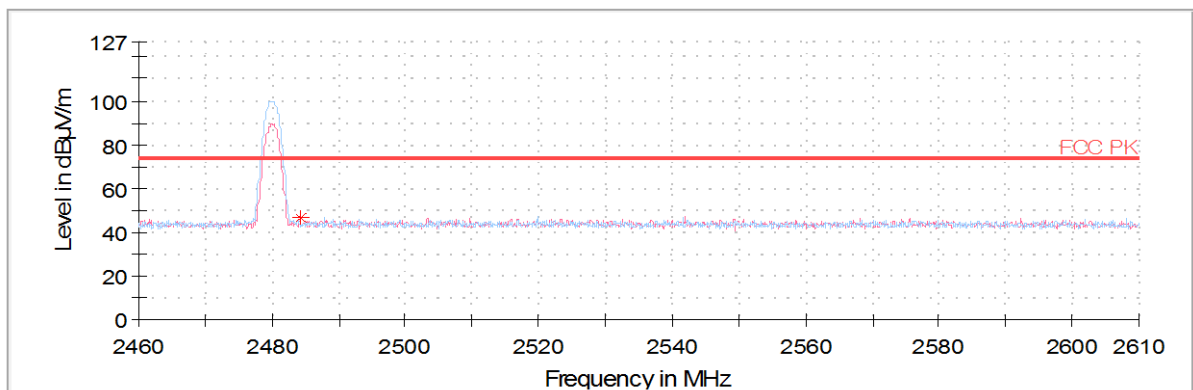
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**High Channel**

Frequency	Pol.	Reading	Cable Loss	Amp Gain	Antenna Factor	DCCF	Result	Limit	Margin
[MHz]	[V/H]	[dB(μV)]	[dB]	[dB]	[dB]	[dB]	[dB(μV/m)]	[dB(μV/m)]	[dB]
Peak data									
1 999.64	V	59.78	3.43	-36.21	27.80	-	54.80	74.00	19.20
2 484.22 ¹⁾	H	50.03	3.77	-35.92	28.72	-	46.60	74.00	27.40
3 997.98 ¹⁾	V	70.08	4.78	-61.18	32.39	-	46.07	74.00	27.93
6 656.02	V	67.29	6.44	-61.10	35.25	-	47.88	74.00	26.12
Average Data									
1 999.64	V	47.05	3.43	-36.21	27.80	-	42.07	54.00	11.93

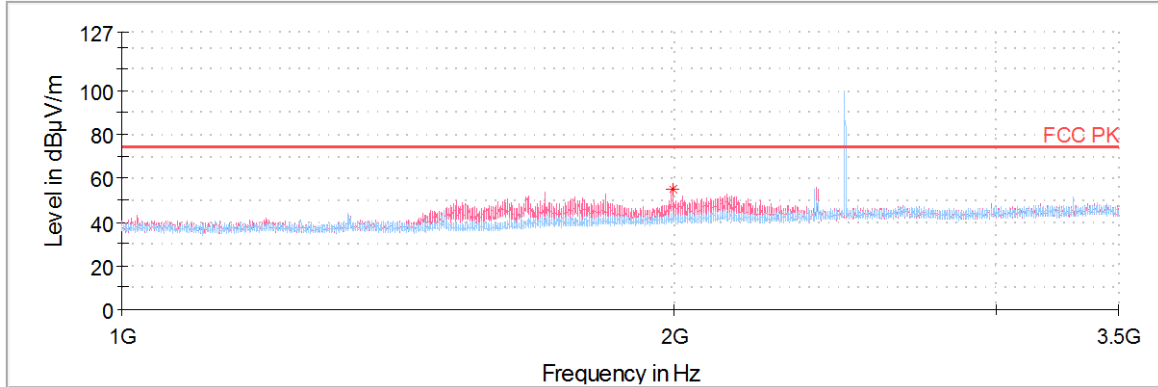
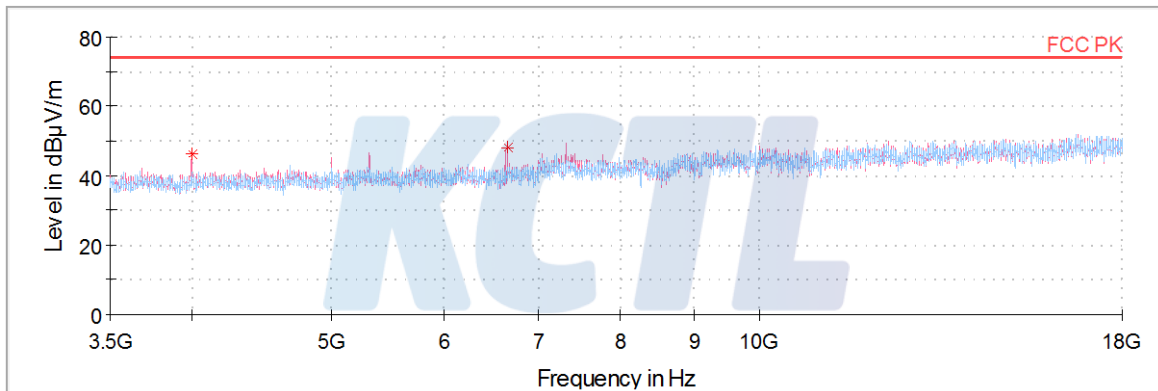
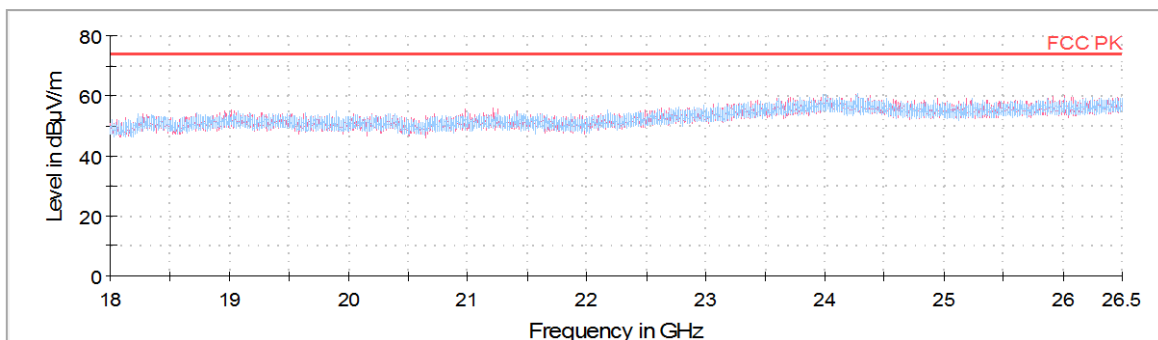
Average data**Average data**

Blank

Horizontal/Vertical for Band-edge

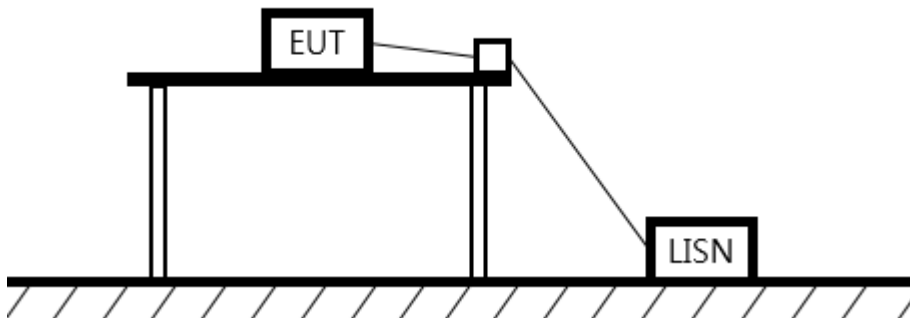
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KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 3.5 GHz**Horizontal/Vertical for 3.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 26.5 GHz**

6.2. AC Conducted emission

Test setup



Limit

According to 15.207(a), for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohm line impedance stabilization network (LISN). Compliance with the provision of this paragraph shall be on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequencies ranges.

Frequency of Emission (MHz)	Conducted limit (dB μ V/m)	
	Quasi-peak	Average
0.15 – 0.50	66 - 56*	56 - 46*
0.50 – 5.00	56	46
5.00 – 30.0	60	50

Measurement procedure

1. The EUT was placed on a wooden table of size, 1 m by 1.5 m, raised 80 cm in which is located 40 cm away from the vertical wall and 1.5m away from the side wall of the shielded room.
2. Each current-carrying conductor of the EUT power cord was individually connected through a 50 Ω /50 μ H LISN, which is an input transducer to a spectrum analyzer or an EMI/Field Intensity Meter, to the input power source.
3. Exploratory measurements were made to identify the frequency of the emission that had the highest amplitude relative to the limit by operating the EUT in a range of typical modes of operation, cable position, and with a typical system equipment configuration and arrangement. Based on the exploratory tests of the EUT, the one EUT cable configuration and arrangement and mode of operation that had produced the emission with the highest amplitude relative to the limit was selected for the final measurement.
4. The final test on all current-carrying conductors of all of the power cords to the equipment that comprises the EUT (but not the cords associated with other non-EUT equipment in the system) was then performed over the frequency range of 0.15 MHz to 30 MHz.
5. The measurements were made with the detector set to peak amplitude within a bandwidth of 10 kHz or to quasi-peak and average within a bandwidth of 9 kHz. The EUT was in transmitting mode during the measurements.

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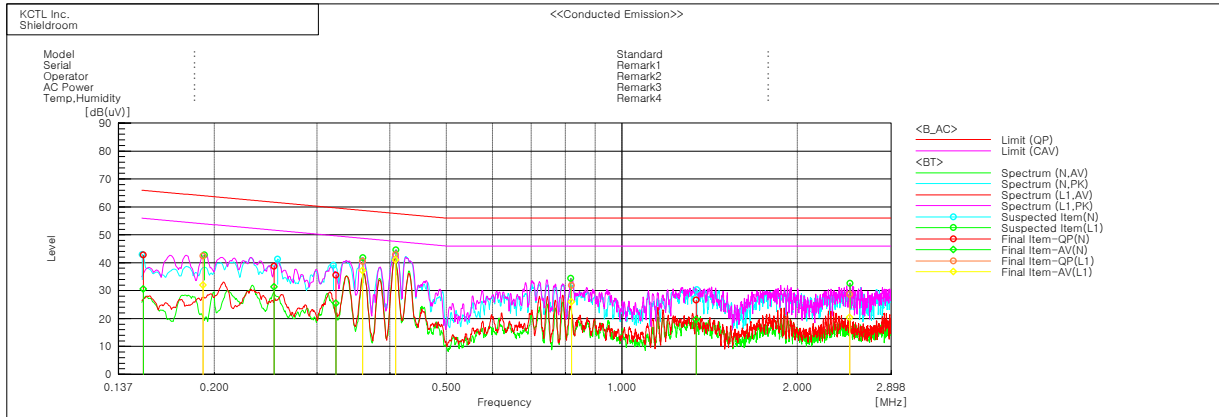
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Test results



Final Result

--- N Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.15123	32.9	20.7	9.8	42.7	30.5	65.9	55.9	23.2	25.4
2	0.25317	29.0	21.7	9.6	38.6	31.3	61.7	51.7	23.1	20.4
3	0.32352	25.8	15.7	9.7	35.5	25.4	59.6	49.6	24.1	24.2
4	1.34102	16.9	9.9	9.7	26.6	19.6	56.0	46.0	29.4	26.4
5	17.01298	8.1	1.9	10.0	18.1	11.9	60.0	50.0	41.9	38.1
6	24.17679	4.3	-1.7	10.0	14.3	8.3	60.0	50.0	45.7	41.7

--- L1 Phase ---										
No.	Frequency	Reading QP	Reading CAV	c.f	Result QP	Result CAV	Limit QP	Limit AV	Margin QP	Margin CAV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.19118	32.4	21.9	10.0	42.4	31.9	64.0	54.0	21.6	22.1
2	0.35941	30.7	27.4	9.8	40.5	37.2	58.7	48.7	18.2	11.5
3	0.40923	33.1	31.1	9.8	42.9	40.9	57.7	47.7	14.8	6.8
4	0.81982	22.0	16.2	9.8	31.8	26.0	56.0	46.0	24.2	20.0
5	2.45944	19.0	10.6	9.7	28.7	20.3	56.0	46.0	27.3	25.7
6	3.56627	19.2	8.6	9.8	29.0	18.4	56.0	46.0	27.0	27.6

7. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R & S	FSV40	100988	20.01.04
Pulse Power Meter	ANRITSU	ML2495A	1608009	19.08.02
Pulse Power Sensor	ANRITSU	MA2411B	1726174	19.08.02
ATTENUATOR	R & S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31212	19.05.14
EMI TEST RECEIVER	R & S	ESCI	100732	19.08.23
Bi-Log Antenna	SCHWARZBECK	VULB 9168	583	20.05.04
Amplifier	SONOMA INSTRUMENT	310N	284608	19.08.23
COAXIAL FIXED ATTENUATOR	Agilent	8491B-003	2708A18758	20.05.04
Horn antenna	ETS.lindgren	3116	00086635	19.05.10
Horn antenna	ETS.lindgren	3117	161225	19.05.18
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800 -22-10P	2003683	19.05.15
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33 -8P	2000997	19.08.02
LOOP Antenna	R & S	HFH2-Z2	100355	20.08.24
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	DT2000	79	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	Innco Systems	DT2000	79	-
TWO-LINE V - NETWORK	R&S	ENV216	101584	19.04.05
EMI TEST RECEIVER	R & S	ESCI	101408	19.08.23
Highpass Filter	WT	WT-A1698-HS	WT160411001	19.05.14
Vector Signal Generator	R & S	SMBV100A	257566	20.01.04
Signal Generator	R & S	SMR40	100007	19.05.15
Cable Assembly	RadiAll	2301761768000PJ	1724.659	-
Cable Assembly	gigalane	RG-400	-	-
Cable Assembly	HUER+SUHNER	SUCOFLEX 104	MY4342/4	-

End of test report