

TEST REPORT

Job No. : GPEM2602000157EC
Test Report No. : F690501-RF-EMC004911
Applicant : KIDO SPORTS CO., LTD.
Product Name : Bluetooth Intercom
Model Name : PT-1
Standards : FCC Part 15 Subpart B
ICES-003 Issue 7:2020
FCC ID : 2BEYM-PT-1
Date of Receipt : February 6, 2026
Date of Test : April 29, 2026 ~ May 15, 2026
Date of Issue : May 21, 2026
Test Result : Complied

- 1) This test report does not assure KOLAS accreditation.
2) The results of this test report are effective only to the items tested.
3) The SGS Korea is not responsible for the sampling, the results of this test report apply to the sample as received.

Affirmation

Tested by (Name, signature)

DoHyeon Lee



Approved by (Name, signature)

Paul Kang



SGS Korea Co., Ltd. Gunpo Laboratory

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The results shown in this test report refer only to the sample(s) tested unless otherwise stated. This Test Report cannot be reproduced, except in full.

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Revision History

Revision	Report Number	Description
0	F690501-RF-EMC004911	Initial

1. Test Laboratory

1.1 General information

Name	SGS Korea Co., Ltd.		
- Branch Site	4, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Republic of Korea		
	Tel. +82 31 428 5700		Fax. +82 31 427 5370
- Branch Site-3	35, Giheungdanji-ro 121beon-gil, Giheung-gu, Yongin-si, Gyeonggi-do, Republic of Korea		
	Tel. +82 31 548 0710		Fax. +82 31 548 0719
- Branch Site-4	12, Dongtansandan 10-gil, Hwaseong-si, Gyeonggi-do, 18487, Republic of Korea		
	Tel. +82 31 8007 5302		Fax. +82 31 427 2370
Website	http://www.sgsgroup.kr/ee		

SGS Korea Co., Ltd. has been accredited by the agencies listed in the following table;

Accreditation	Accreditation bodies	Accreditation No.
KC	MSIT- RRA	KR0150
FCC	FCC (MRA)	
ISED	ISED (MRA)	
Vietnam-MIC	Vietnam-MIC	
Japan EMI	VCCI	C-14102, T-11156, R-13662, G-20037
KOLAS	KATS - KOLAS	Testing No.123
CBTL	IECEE	TL 146
SDPPI	SDPPI	-

2. General Information of E.U.T.

2.1 Applicant Information

Applicant	KIDO SPORTS CO., LTD.
Applicant Address	395, Gonghang-daero, Gangseo-gu, Seoul, Republic of Korea
Manufacturer	KIDO SPORTS CO., LTD.
Manufacturer Address	395, Gonghang-daero, Gangseo-gu, Seoul, Republic of Korea

2.2 General Information of E.U.T.

Classification	Description
Product Name	Bluetooth Intercom
Model Name	PT-1
Alt. Model Name	-
Model Differences	-
Serial No.	-
EMI Classification	Class B
Internal Clock Frequency	108 MHz (Wireless Frequency: 2 480 MHz)
Rated Power	3.7 Vd.c., 1 000 mAh
Tested Power	120 V~, 60 Hz (AC Adapter)
H/W Version	1.0
S/W Version	1.0
Port	USB C-Type
Components	USB Cable(Type-C), MIC, Speaker
Function	Bluetooth Intercom

2.3 Configurations of E.U.T

Description	Model	Serial No.	Manufacturer	Note
Main Board	PT-1 V1.2	-	KIDO SPORTS CO.,LTD	-
Battery	-	-	-	-

3. E.U.T. Operation and Test Configuration

3.1 Peripheral Equipments

Description	Model	Serial No.	Manufacturer	Note.
AC Adapter	EP-TA200 002	R37R7T120X4RT3	RFTech Co., Ltd.	-

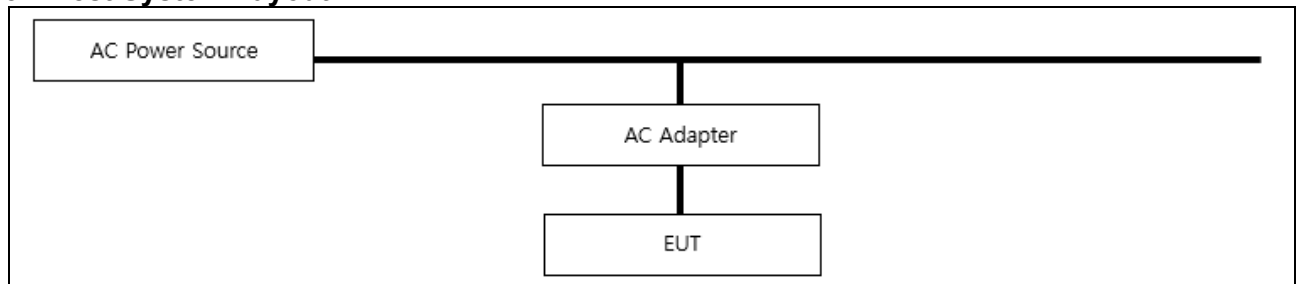
3.2 Cable List

Start		END		Cable Spec.		Used core
Name	I/O Port	Name	I/O Port	Length (m)	Shield	
EUT	USB C-Type	AC Adapter	USB A-Type	1.0	Unshielded	-

3.3 Operating Modes and Conditions

Operating mode	Operating condition
01 Charging+Operating	A state that the EUT was charging through AC Adapter and Operating.

3.4 Test System Layout



3.5 Modifications to the test items during testing

- ☒ No modifications done during testing
- ☐ Modification done during testing (see details below)

No.	Description of modification (if any)
1	
2	

4. Test Results

4.1 Summary

Test Items	Standards	Test Results
Conducted Emission	FCC Part 15 Subpart B Section 15.107 ICES-003 Issue 7:2020 ANSI C63.4a:2017	Complied
Radiated Emission	FCC Part 15 Subpart B Section 15.109 ICES-003 Issue 7:2020 ANSI C63.4a:2017	Complied

4.2 Note

- 1 Test Methods of all test items are performed according to the basic standard in subclause 4.1.
- 2

Emission Test

5.1 Test Method and Limits

Test Items	Measuring Frequency Range	RBW	Measuring Distance
Conducted Emission	0.15 MHz - 30 MHz	9 kHz	-
Radiated Emission	30 MHz - 1 GHz	120 kHz	10 m or 3 m
	Above 1 GHz	1 MHz	3 m

5.2 Test Limits

Frequency Range	Limits(dBμV)		Class
	Quasi-peak	CISPR-Average	
0.15 MHz - 0.5 MHz	79	66	Class A
0.5 MHz - 30 MHz	73	60	
0.15 MHz - 0.5 MHz	66 to 56 ^{Note1}	56 to 46 ^{Note1}	Class B
0.5 MHz - 5 MHz	56	46	
5 MHz - 30 MHz	60	50	

[Table 2.1 Conducted Emission Limits]

Frequency Range	Limits(dBμV/m)	Class
	Quasi-peak	
30 MHz - 88 MHz	39.0	Class A (10 m method)
88 MHz - 216 MHz	43.5	
216 MHz - 960 MHz	46.5	
960 MHz - 1 GHz	49.5	
30 MHz - 88 MHz	40.0	Class B (3 m method)
88 MHz - 216 MHz	43.5	
216 MHz - 960 MHz	46.0	
960 MHz - 1 GHz	54.0	

[Table 2.2 Radiated Emission Limits below 1 GHz_For FCC Part 15 Subpart B]

Frequency Range	Limits(dBμV/m)	Class
	Quasi-peak	
30 MHz - 88 MHz	40.0	Class A (10 m method)
88 MHz - 216 MHz	43.5	
216 MHz - 230 MHz	46.4	
230 MHz - 960 MHz	47.0	
960 MHz - 1 GHz	49.5	

30 MHz - 88 MHz	50.0	Class A (3 m method)
88 MHz - 216 MHz	54.0	
216 MHz - 230 MHz	56.9	
230 MHz - 960 MHz	57.0	
960 MHz - 1 GHz	60.0	
30 MHz - 88 MHz	30.0	Class B (10 m method)
88 MHz - 216 MHz	33.1	
216 MHz - 230 MHz	35.6	
230 MHz - 960 MHz	37.0	
960 MHz - 1 GHz	43.5	
30 MHz - 88 MHz	40.0	Class B (3 m method)
88 MHz - 216 MHz	43.5	
216 MHz - 230 MHz	46.0	
230 MHz - 960 MHz	47.0	
960 MHz - 1 GHz	54.0	

[Table 2.3 Radiated Emission Limits below 1 GHz_For ICES-003 Issue 7 : 2020]

Frequency Range	Limits(dBμV)		Class
	Peak	CISPR-Average	
Above 1 GHz	79.5	59.5	Class A
	74.0	54.0	Class B

[Table 2.4 Radiated Emission Limits Above 1 GHz_For FCC Part 15 Subpart B ^{Note2}]

Frequency Range	Limits(dBμV)		Class
	Peak	CISPR-Average	
Above 1 GHz	80.0	60.0	Class A
	74.0	54.0	Class B

[Table 2.5 Radiated Emission Limits Above 1 GHz_For ICES-003 Issue 7 : 2020]

Note 1. The lower limit shall apply at the transition frequencies. The limit decreases linearly with the logarithm of that frequency.

Note 2. The limits of class A equipment is extrapolated using an extrapolation factor of 20 dB/decade because it was measured at 3 m distance not 10 m distance.

5.3 Conducted Emission

5.3.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Interval (Months)	Cal Date	Cal Due. Date
EMI TEST RECEIVER	ESU8	R&S	100128	12	2025-05-30	2026-05-30
2-LINE V-NETWORK	ENV216	R&S	101180	12	2025-08-07	2026-08-07
PULSE LIMITER	ESH3-Z2	R&S	100283	12	2025-08-21	2026-08-21
RF Cable	EMH-1Lab-CE-01	-	-	6	2026-01-05	2026-07-05

Note. Measuring software is below

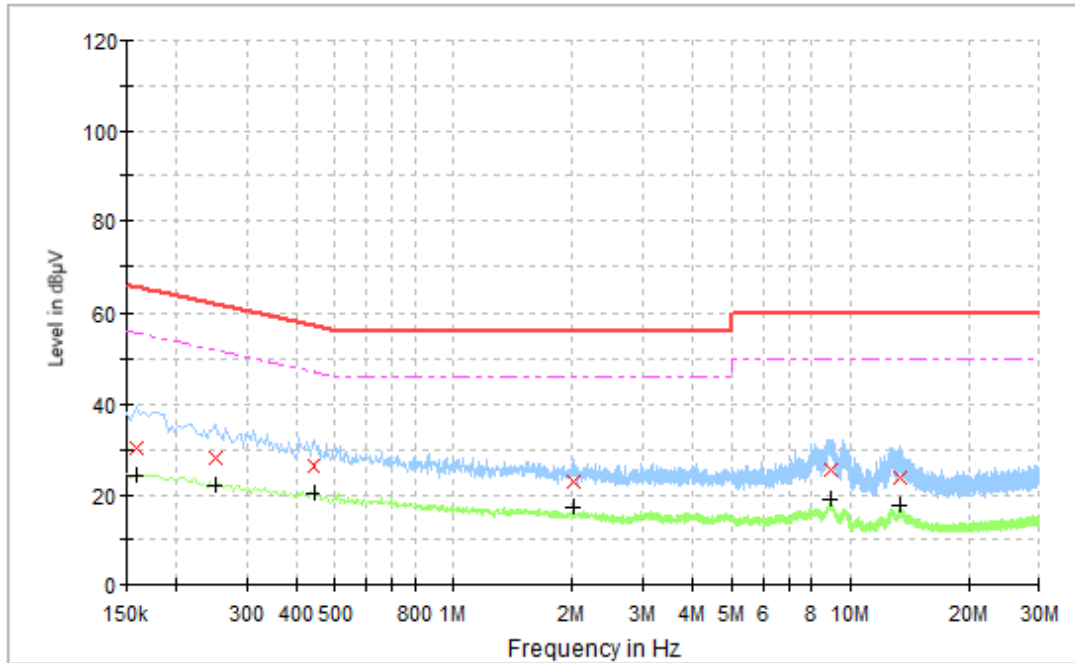
- Branch Site : EMC32(V10.60.20) from R&S
- Branch Site-3 : EMC32(V10.40.10) from R&S
- Branch Site-4 : EMC32(V10.40.00) from R&S

5.3.2 Environment Conditions

Test Site	Shield Room in Branch site-3
Temperature	(Minimum 21.0, Maximum 22.0) °C
Humidity	(Minimum 48.0, Maximum 49.0) % R.H.
Atmospheric Pressure	(Minimum 100.5, Maximum 100.5) kPa
Test Date	2026-05-15

5.3.3 Test Results

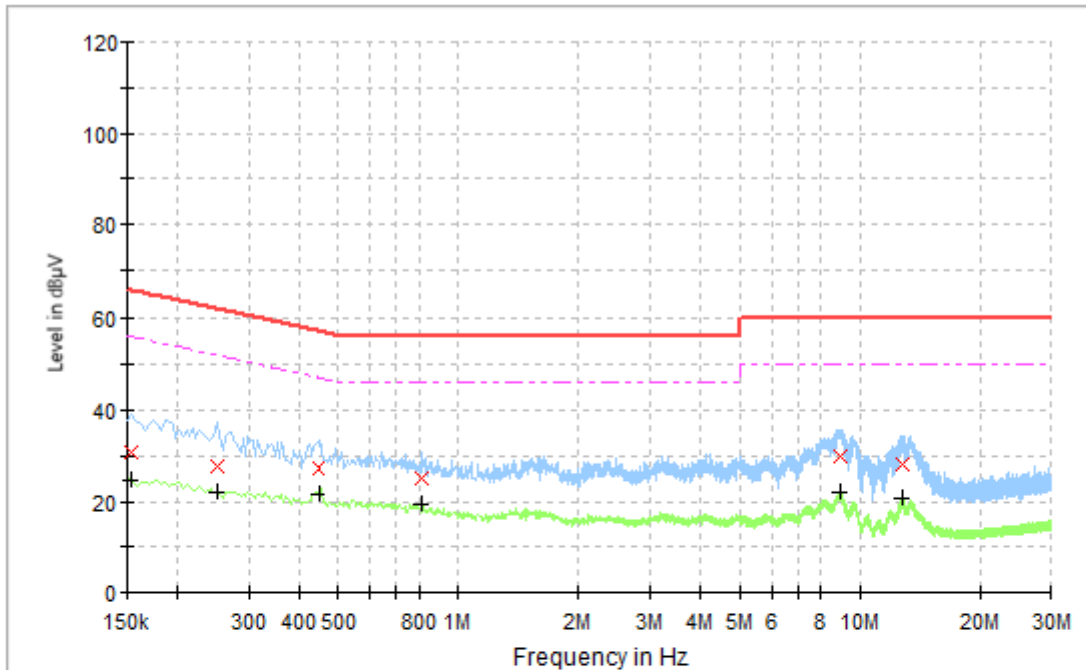
Live Line_01 Mode



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.158	---	24.21	55.57	31.36	15 000.0	9.000	L1	ON	19.7
0.158	30.39	---	65.57	35.18	15 000.0	9.000	L1	ON	19.7
0.250	---	22.28	51.76	29.48	15 000.0	9.000	L1	ON	19.6
0.250	28.12	---	61.76	33.64	15 000.0	9.000	L1	ON	19.6
0.442	---	20.57	47.02	26.45	15 000.0	9.000	L1	ON	19.8
0.442	26.31	---	57.02	30.72	15 000.0	9.000	L1	ON	19.8
2.010	---	17.22	46.00	28.78	15 000.0	9.000	L1	ON	19.7
2.010	22.90	---	56.00	33.10	15 000.0	9.000	L1	ON	19.7
8.942	---	19.01	50.00	30.99	15 000.0	9.000	L1	ON	20.0
8.942	25.35	---	60.00	34.65	15 000.0	9.000	L1	ON	20.0
13.298	---	17.72	50.00	32.28	15 000.0	9.000	L1	ON	20.2
13.298	23.62	---	60.00	36.38	15 000.0	9.000	L1	ON	20.2

Neutral Line_01 Mode



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.154	---	24.48	55.78	31.30	15 000.0	9.000	N	ON	19.7
0.154	30.61	---	65.78	35.17	15 000.0	9.000	N	ON	19.7
0.250	---	22.22	51.76	29.53	15 000.0	9.000	N	ON	19.6
0.250	27.89	---	61.76	33.87	15 000.0	9.000	N	ON	19.6
0.446	---	21.49	46.95	25.45	15 000.0	9.000	N	ON	19.8
0.446	27.27	---	56.95	29.68	15 000.0	9.000	N	ON	19.8
0.810	---	19.47	46.00	26.53	15 000.0	9.000	N	ON	19.7
0.810	25.09	---	56.00	30.91	15 000.0	9.000	N	ON	19.7
8.982	---	22.24	50.00	27.76	15 000.0	9.000	N	ON	20.1
8.982	29.74	---	60.00	30.26	15 000.0	9.000	N	ON	20.1
12.762	---	20.89	50.00	29.11	15 000.0	9.000	N	ON	20.3
12.762	28.30	---	60.00	31.70	15 000.0	9.000	N	ON	20.3

Note. Measurement Uncertainty : See Appendix A

- Line (L1) : Live Line of AC Power
- Margin = Limit – Quasi Peak or CAverage

- Line (N) : Neutral Line of AC Power
- Corr. = LISN Factor + Cable loss + Pulse Limiter factor

Ex) In case

Freq ; 0.5 Mhz, level ; 30 dB(μV), CL ; 0.2 dB, LISN ; 9.5 dB, P/L: 9.8 dB

Result = Level + CL + LISN + P/L

$$= 30 + 0.2 + 9.5 + 9.8$$

$$= 49.5$$

Margin = Limit – Result

$$= 79 - 49.5$$

$$= 29.5$$

5.4 Radiated Emission

5.4.1 Test Equipments

Equipment	Model	Manufacturer	Serial No	Cal Interval (Months)	Cal Date	Cal Due. Date
EMI TEST RECEIVER	ESU40	R&S	100075	12	2026-01-28	2027-01-28
TRILOG BROADBAND ANTENNA	VULB 9163	SCHWARZBECK	9163-437	12	2025-06-02	2026-06-02
Double Ridged Horn Antenna	HF907	R&S	100208	12	2026-03-06	2027-03-06
PRE-AMPLIFIER	AM-1431	MITEQ	1336160	12	2025-06-09	2026-06-09
AMPLIFIER	SCU 18	R&S	10070	12	2025-08-26	2026-08-26
BLUETOOTH TEST SET	MT8852B	Anritsu	6272420469	12	2026-04-03	2027-04-03
RF Cable	EMH-1Lab-RE-01	-	-	6	2026-01-05	2026-07-05
RF Cable	EMH-1Lab-RE-04	-	-	6	2026-01-05	2026-07-05
RF Cable	EMH-1Lab-RE-05	-	-	6	2026-01-05	2026-07-05
RF Cable	EMH-1Lab-RE-06	-	-	6	2026-01-05	2026-07-05

Note. Measuring software is below

- Branch Site : ELECTRA(V5.02.0) from R&S
- Branch Site-3 : EMC32(V10.40.10) from R&S
- Branch Site-4 : EMC32(V10.40.10) from R&S

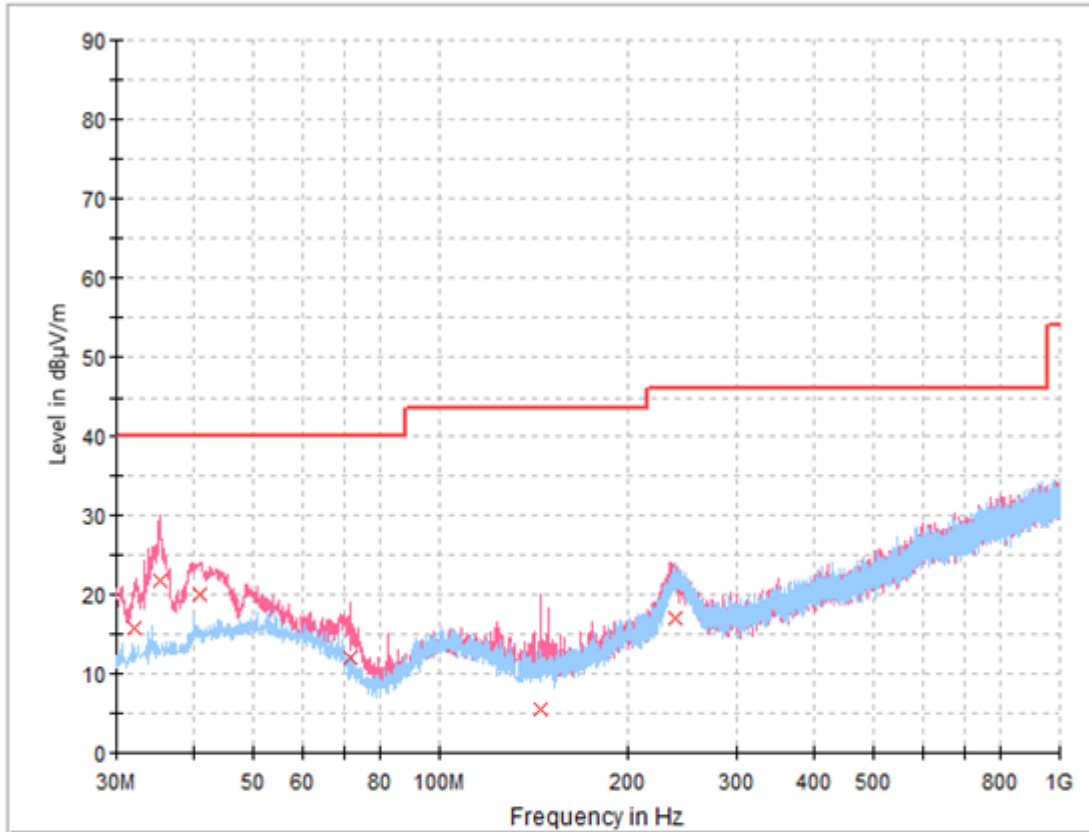
5.4.2 Environment Conditions

Test Site	10 m SEMI-ANECHOIC CHAMBER in Branch site-3
Temperature	(Minimum 18.4, Maximum 22.0) °C
Humidity	(Minimum 31.0, Maximum 35.0) % R.H.
Atmospheric Pressure	(Minimum 100.6, Maximum 100.7) kPa
Test Date	2026-04-29 (for Below 1 GHz) 2026-05-15 (for Above 1 GHz)

5.4.3 Test Result

Below 1 GHz (3 m method)

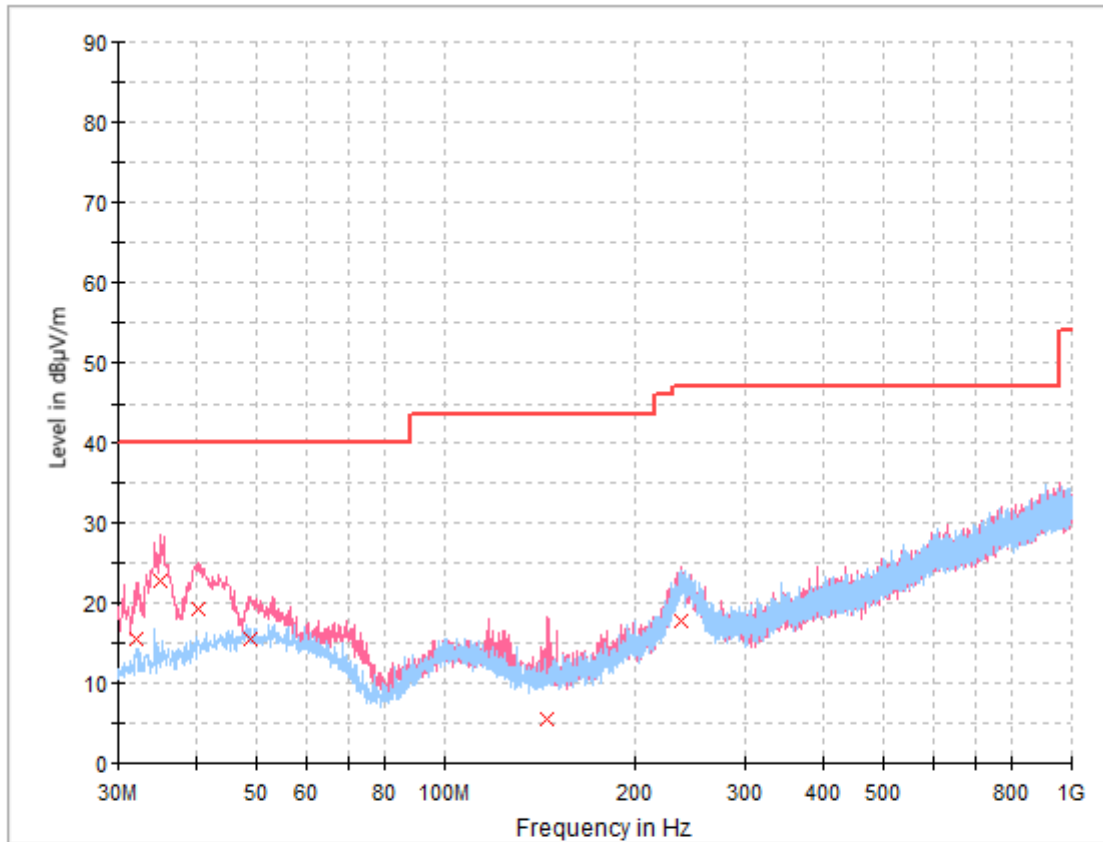
01 Mode [FCC Part 15 Subpart B]



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.037	16.41	40.00	23.59	15 000.0	120.000	105.0	V	328.0	-21.5
35.238	21.85	40.00	18.15	15 000.0	120.000	100.0	V	209.0	-20.6
40.767	20.07	40.00	19.93	15 000.0	120.000	100.0	V	355.0	-18.6
71.516	11.95	40.00	28.05	15 000.0	120.000	110.0	V	0.0	-22.3
144.363	5.51	43.50	37.99	15 000.0	120.000	110.0	V	71.0	-22.8
239.423	17.07	46.00	28.93	15 000.0	120.000	100.0	H	18.0	-17.8

01 Mode [ICES-003 Issue 7: 2020]



Final Result

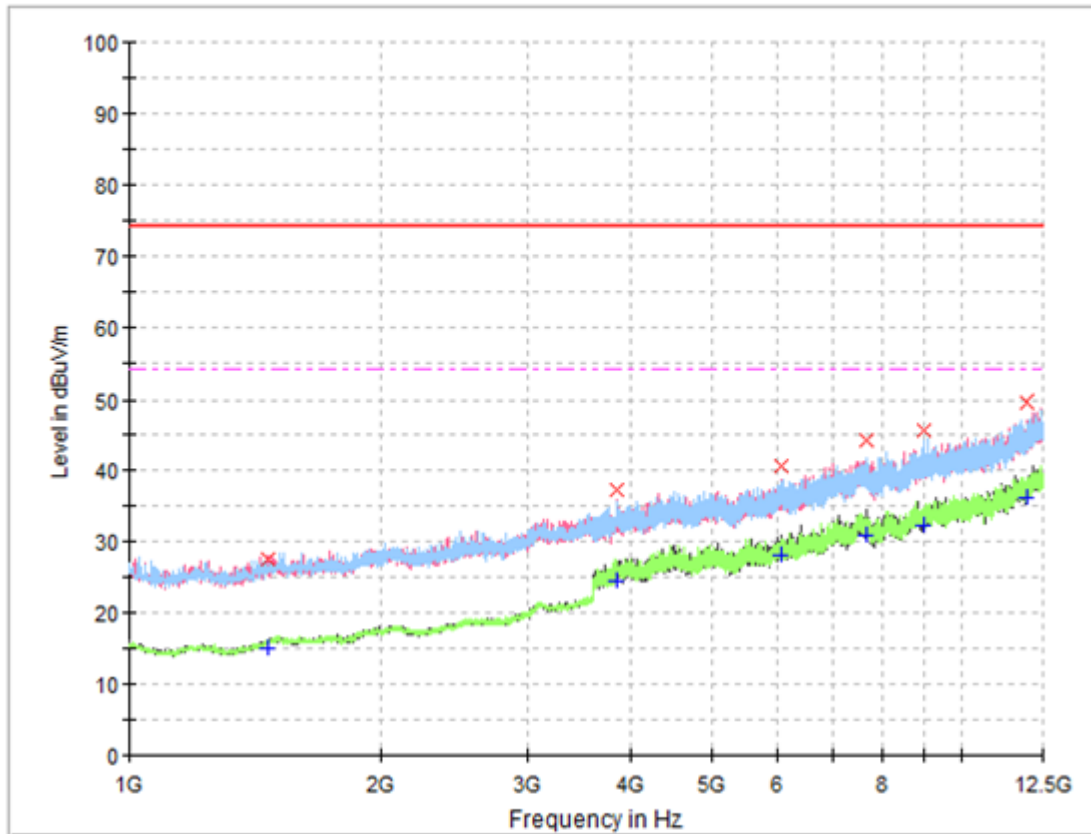
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
32.037	15.61	40.00	24.39	15 000.0	120.000	110.0	V	328.0	-21.5
35.141	22.81	40.00	17.19	15 000.0	120.000	100.0	V	302.0	-20.6
40.379	19.30	40.00	20.70	15 000.0	120.000	120.0	V	320.0	-18.6
49.012	15.47	40.00	24.53	15 000.0	120.000	100.0	V	266.0	-17.1
144.945	5.46	43.50	38.04	15 000.0	120.000	100.0	V	247.0	-22.7
237.289	17.72	47.00	29.28	15 000.0	120.000	100.0	V	0.0	-17.8

Note. Measurement Uncertainty: See Appendix A

- POL H = Horizontal
- POL V = Vertical
- Margin = Limit – Quasi Peak
- Corr. = Antenna Factor + Cable loss – Amplifier Gain

Above 1 GHz (3 m method)

01 Mode



Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	CAverage (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1 465.750	27.66	---	74.00	46.34	15 000.0	1 000.000	100.0	V	356.0	-14.9
1 465.750	---	15.18	54.00	38.82	15 000.0	1 000.000	100.0	V	356.0	-14.9
3 843.950	37.42	---	74.00	36.58	15 000.0	1 000.000	100.0	V	146.0	-4.7
3 843.950	---	24.43	54.00	29.57	15 000.0	1 000.000	100.0	V	146.0	-4.7
6 060.000	---	28.00	54.00	26.00	15 000.0	1 000.000	100.0	V	334.0	-0.4
6 060.000	40.75	---	74.00	33.25	15 000.0	1 000.000	100.0	V	334.0	-0.4
7 689.550	---	30.92	54.00	23.08	15 000.0	1 000.000	100.0	V	0.0	2.2
7 689.550	44.28	---	74.00	29.72	15 000.0	1 000.000	100.0	V	0.0	2.2
9 015.500	45.62	---	74.00	28.38	15 000.0	1 000.000	100.0	H	74.0	4.1
9 015.500	---	32.29	54.00	21.71	15 000.0	1 000.000	100.0	H	74.0	4.1
11 981.350	49.56	---	74.00	24.44	15 000.0	1 000.000	100.0	V	259.0	7.7
11 981.350	---	36.29	54.00	17.71	15 000.0	1 000.000	100.0	V	259.0	7.7

Note. Measurement Uncertainty: See Appendix A

- AF = Antenna Factor
- POL H = Horizontal
- H = Height
- Corr. = AF + CL – AMP

- CL = Cable Loss
- POL V = Vertical
- Margin = Limit – Result
- ** The value of 'Level' includes 'Corr.'.

- AMP = Amplifier Gain
- A = Angle

Ex) In case

Freq ; 100 MHz, level ; 30 dB(μ V/m), AF ; 10 dB/m, CL ; 4 dB, Amp ; 25 dB

Result = Level + AF + CL – Amp

= 30 + 10 + 4 - 25

= 19

Margin = Limit – Result

= 43.5 – 19

= 24.5

Appendix A: Measurement Uncertainty

Test Method		Measurement Uncertainty	
Conducted Emission	ENV216	3.3 dB	(The confidence level is 95 %, $k=2$)
	ESH3-Z6	3.3 dB	(The confidence level is 95 %, $k=2$)
	ESH2-Z5	3.2 dB	(The confidence level is 95 %, $k=2$)
	NNLK8129	3.2 dB	(The confidence level is 95 %, $k=2$)
Conducted Emission - Signal	ISN T800	5.5 dB	(The confidence level is 95 %, $k=2$)
	ISN ST08	6.6 dB	(The confidence level is 95 %, $k=2$)
Radiated Emission	9 kHz - 30 MHz	Horizontal	3.5 dB (The confidence level is 95 %, $k=2$)
		Vertical	3.5 dB (The confidence level is 95 %, $k=2$)
	30 MHz - 1 000 MHz	Horizontal	4.4 dB (The confidence level is 95 %, $k=2$)
		Vertical	5.0 dB (The confidence level is 95 %, $k=2$)
	1 GHz - 18 GHz	Horizontal	3.8 dB (The confidence level is 95 %, $k=2$)
		Vertical	4.1 dB (The confidence level is 95 %, $k=2$)

Table A.1 Measurement Uncertainty of Branch Site-3

Test Method		Measurement Uncertainty	
Conducted Emission	ENV216	3.5 dB	(The confidence level is 95 %, $k=2$)
	ESH2-Z6	3.4 dB	(The confidence level is 95 %, $k=2$)
	ESH3-Z5	3.4 dB	(The confidence level is 95 %, $k=2$)
	NNLK8129	3.4 dB	(The confidence level is 95 %, $k=2$)
Conducted Emission - Signal	ISN T800	5.6 dB	(The confidence level is 95 %, $k=2$)
	ISN ST08	5.6 dB	(The confidence level is 95 %, $k=2$)
Radiated Emission	9 kHz - 30 MHz (Triple Loop Ant.)	2.9 dB	(The confidence level is 95 %, $k=2$)
	9 kHz - 30 MHz (Loop Ant.)	Horizontal	3.6 dB (The confidence level is 95 %, $k=2$)
		Vertical	3.6 dB (The confidence level is 95 %, $k=2$)
	30 MHz - 1 000 MHz	Horizontal	4.9 dB (The confidence level is 95 %, $k=2$)
		Vertical	5.5 dB (The confidence level is 95 %, $k=2$)
	1 GHz - 18 GHz	Horizontal	4.6 dB (The confidence level is 95 %, $k=2$)
		Vertical	4.6 dB (The confidence level is 95 %, $k=2$)

Table A.2 Measurement Uncertainty of Branch Site-4

- End of Test Report -