



시험 성적서

TEST REPORT

페이지(page) : (1) / (총(Total) 24)

성적서 번호 Report No.		ICRT-TR-E202749-0A	
신청자 Client	기관명 Name	RADWAG Wagi Elektroniczne Witold Lewandowski	
	주 소 Address	5 Torunska Street Radom, Poland 26-600	
시험대상품목 Sample description		R series balances	
모델명 Type designation		AS R, PS R, PS R.M	
정 격 Ratings		AC 120 V, 60 Hz	
시험장소 Place of test		☒ 고정시험(Inside test) ☐ 현장시험(Field test) 주소지(Address): 112, 113, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do,	
시험기간 Date of test		2020. 10. 19 ~ 2020. 10. 21	
시험방법/항목 Test Method/Item		FCC 47 CFR Part 15 Subpart B	
시험결과 Test Results		Refer to summary of test results	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
	성 명 Name	박 찬 (서명) Park, Chan (Signature)	박명철 (서명) Park, Myeongcheol (Signature)
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ICRT-QPA-17-03 Rev.0

112, 113, Hwanggeum3-ro 7beon-gil, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea / Tel: 02-6351-9001 ~ 6



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1. Applicant Information

1.1 Applicant

Applicant : RADWAG Wagi Elektroniczne Witold Lewandowski
Address : 5 Torunska Street Radom, Poland 26-600
Contact person : Piotr Cieplucha
Telephone No. : 48483866240
Facsimile No. : -
E-mail : p.cieplucha@radwag.pl

1.2 Manufacture

Manufacture : RADWAG Wagi Elektroniczne Witold Lewandowski
Address : 5 Torunska Street Radom, Poland 26-600
Contact person : Piotr Cieplucha
Telephone No. : 48483866240
Facsimile No. : -
E-mail : p.cieplucha@radwag.pl

2. Laboratory

2.1 Information

Laboratory : ICR Co., Ltd
Address : 112, 113, Hwanggeum 3-ro 7beon-gil, Hagun-ri, Yangchon-eup, Gimpo-si, Gyeonggi-do, Korea
Telephone No. : +82-2-6351-9001
Facsimile No. : +82-2-6351-9007

KOLAS No. : KT652
RRA No. : KR0165

3. Revision History

Issued Report No.	Issued Date	Revisions	Effect Section
ICRT-TR-E202749-0A	2020. 10. 26	-	-





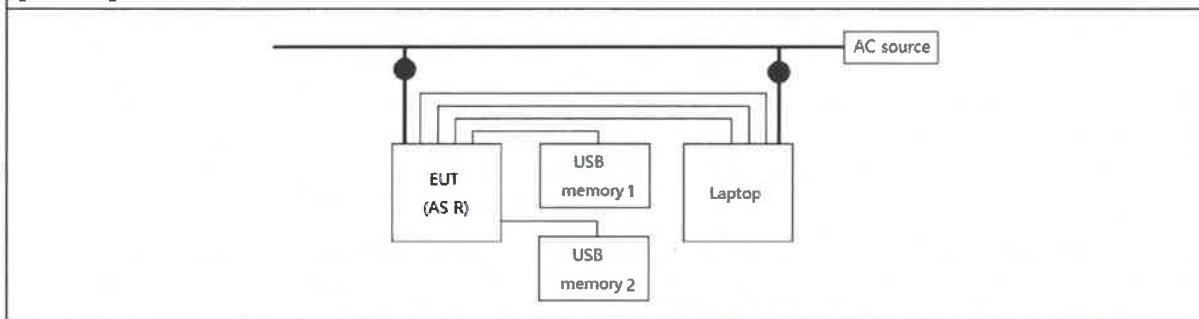
4. List of EUT and Accessory

4.1 Used equipment

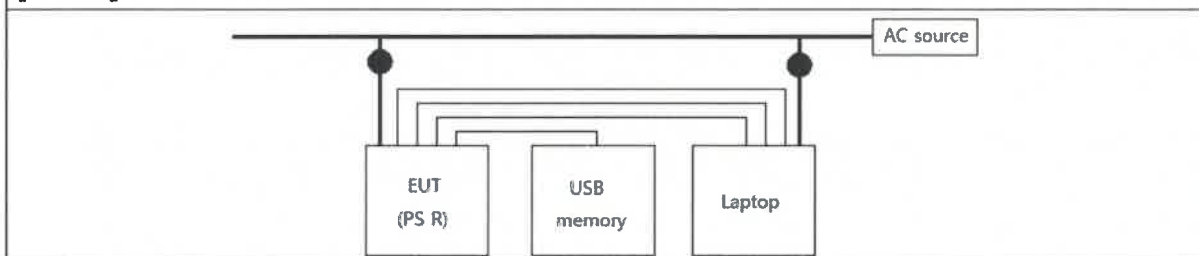
Description	Model	Manufacturer	Remark
R series balances	AS R	RADWAG Wagi Elektroniczne Witold Lewandowski	EUT [Mode 1]
R series balances	PS R	RADWAG Wagi Elektroniczne Witold Lewandowski	EUT [Mode 2]
R series balances	PS R.M	RADWAG Wagi Elektroniczne Witold Lewandowski	EUT [Mode 3]
Adapter	MSA-C1200CS12.0-18F-DE	MOSO	EUT
Laptop	E520 1143-A89	LENOVO	AE
Adapter(Laptop)	PA-1650-16	LENOVO	AE
USB memory1	-	-	AE
USB memory2	-	-	AE

4.2 Test Configuration

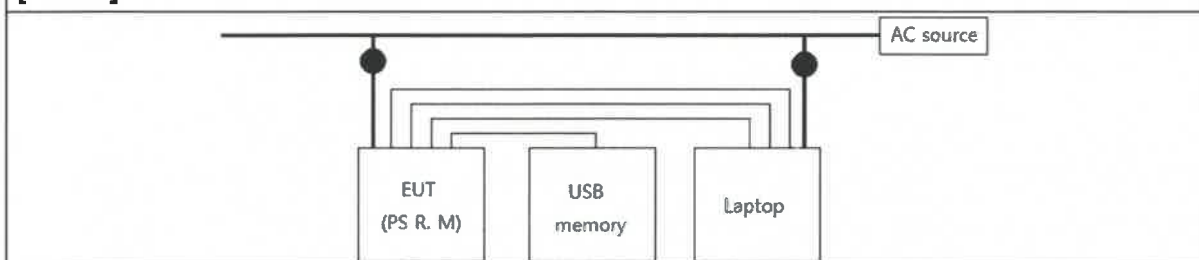
[Mode 1]



[Mode 2]



[Mode 3]



— : Signal line — : Power line △ : GROUND ● : Adapter





4.3 Cable List

Equipment	Port	Equipment	Port	Length (m)	Shielded
EUT [Mode 1]	COM1	Laptop	USB	3.0	Shielded
	COM2	Laptop	USB	3.0	Shielded
	USB1	Laptop	USB	2.0	Shielded
	USB2	USB memory1	USB	2.0	Shielded
	USB3	USB memory2	USB	2.0	Shielded
	DC IN	Adapter	DC OUT	1.5	Unshielded
EUT [Mode 2, 3]	COM1	Laptop	USB	3.0	Shielded
	COM2	Laptop	USB	3.0	Shielded
	USB1	Laptop	USB	2.0	Shielded
	USB2	USB memory	USB	2.0	Shielded
	DC IN	Adapter	DC OUT	1.5	Unshielded

4.4 Mode of Operating during the test

Common operating mode : EUT was continuous measure a Ferrite core weight. At the same time, measuring data is transmit the laptop and store to USB memory.

[Mode 1] : Sample AS R

[Mode 2] : Sample PS R

[Mode 3] : Sample PS R.M

4.5 EUT Modifications

- None

4.6 Family Model Name

- None

4.7 Additional Items

- FCC ID : 2AXRT-ASPSR





5. Summary of test result

5.1 Test Summary

Standard	Test items	Applied	Results
FCC Part 15.109 Class B	Radiated disturbance	☒	Pass
FCC Part 15.107 Class B	Conducted disturbance	☒	Pass
* The data in this test report are traceable to the national or international standards.			

Frequency range to be scanned:

0.15 MHz to 30 MHz as Conducted measurement

5th harmonic of the highest frequency or 40 GHz, whichever is lower as Radiated measurement

Bandwidth:

Measured by the CISPR quasi-peak function Bandwidth is 9 kHz in the frequency 0.15 MHz to 30 MHz and 120 kHz in the frequency 30 MHz to 1 000 MHz.

Measured by the CISPR Peak function Bandwidth is 1 MHz in the frequency 1 GHz to 40 GHz.

※ The internal sources of the EUT is less than 108 MHz





6. Test Description

5.2 Facility

All the testing facilities are periodically serviced as a daily check for equipment and cables systems, an every 6 months facility check for the facilities and a monthly check and annual calibration for testing equipment according to ISO/IEC 17025. All the testing facilities are used as the same specifications shown below. There are descriptions both for radiated disturbance measurement and conducted disturbance measurement conformed by ANSI C 63.4-2014.

5.3 Test Procedure

6.2.1 Radiated Disturbance Measurements – Below 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m/10 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m and 4 m in height above the ground.
- The EUT is placed on the non-conducting table with 0.8 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (100 kHz bandwidth) and an EMI receiver with quasi-peak detectors(120 kHz bandwidth).
- Refer to the list of test equipment used for the test.
- Trilog antenna are used as Broadband antenna.
- The Trilog antenna is used in the frequency range of 30 to 1 000MHz, the Horn antenna is used in the frequency range of 1 GHz to 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out by a ICR operator as manual operation.
- searching for some of High disturbance frequency points than the other points with the following settings;
bandwidth 100 kHz, frequency range 10 MHz between 30 MHz and 300 MHz and frequency range 50 MHz between 300 MHz and 1 GHz.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m to 4 m.
- reading the disturbance level by the EMI receiver with quasi-peak detectors (120 kHz bandwidth) according to ANSI C 63.4-2014.
- measuring to vertical and horizontal polarization.
- calculating the measurement result with the following formula or equation:

[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

6.2.2 Radiated Disturbance Measurements – Above 1 GHz

- Test site is met the requirements of ANSI C 63.4-2014 and the distance between the EUT and the antenna is adjusted 3 m.
- The turntable can be rotated 360 degrees.
- The antenna can be adjusted between 1 m in height above the ground.
- The EUT is placed on the non-conducting table with 1 m height on the turntable.
- Measurements are carried out using a EMI test receiver with peak detectors (1 MHz bandwidth) and an EMI receiver with peak and average detectors(1 MHz bandwidth).
- Refer to the list of test equipment used for the test.
- HORN ANTENNA are used as WIDEBAND ANTENNA.
- The HORN ANTENNA is used in the frequency range of 1 GHz to 18 GHz.
- A variable attenuator is used for verifying amplifier's linearity.
- Rotating the turntable and adjusting the height of the antenna are carried out by control buttons on the console.
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.





- Measurement is carried out by a ICR operator as manual operation.
- searching the worst direction with the maximum level of the disturbance wave in rotating the turntable 360 degrees at each searched frequency point.
- setting the height of the antenna with the maximum level of the disturbance wave from 1 m
- reading the disturbance level by the EMI receiver with peak and average detectors (1 MHz bandwidth) according to ANSI C 63.4-2014.
 - measuring to vertical and horizontal polarization.
 - calculating the measurement result with the following formula or equation:
[Measurement result= measured value + Antenna factor + Cable loss - (Amp.)]

5.2.2 Conducted Disturbance Measurements

- The measurement is carried out on an open site with horizontal and metallic ground plane.
- An AMN(Artificial Mains Network) with a nominal impedance (50 Ω /50 μ H) as defined in ANSI C 63.4-2014., shall be utilized.
- The AMN is grounded on a horizontal metal ground plane.
- Measurement is carried out using an EMI receiver with quasi-peak detectors and average detector. (Refer to the List of test equipment used for the test.)
- The shortest distance between the EUT and the AMN is 0.8 m.
- The EUT is placed on the non-conducting table with 0.8 m height.
- A remote switch is used for changing phases between Line (L) and Neutral (N).
- Refer to "Brief Information"(page 4-5) about details of the EUT and configuration of the cables.
- Measurement is carried out as manual operation.
 - detecting the maximized emission level using the maxhold function after setting the spectrum analyzer bandwidth 1 kHz and the frequency range from 150 kHz to 1 MHz, 1 MHz to 5 MHz and 5 MHz to 30 MHz.
 - searching the maximum frequency point of the disturbance wave in each frequency range.
 - reading the disturbance level of quasi-peak, average and Line (L) and Neutral (N) in 9 kHz bandwidth by the EMI receiver.
- calculating the measurement result with the following formula or equation.
(Result = Reading + Corr)
(Margin = Limit - Result)





6. EMISSION

6.1 Radiated disturbance

Definition:

The test assesses the ability of ancillary equipment to limit their internal noise from being radiated from the enclosure.

Test method	: FCC Part 15.109, Class B
Test Date	: 2020. 10. 20 @ Below 1 GHz : 2020. 10. 21 @ Above 1 GHz
Temperature, Humidity	: (19.8 to 20.9) °C, (38.3 to 39.2) % R.H. @ Below 1 GHz (20.1 to 21.2) °C, (37.7 to 39.0) % R.H. @ Above 1 GHz
Measurement Distance	: Below 1 GHz @ 10 m, Above 1 GHz @ 3 m
Measurement Frequency range	: 30 MHz to 18 GHz
Measurement RBW	: Below 1 GHz @ 120 kHz, Above 1 GHz @ 1 MHz
Test mode	: Mode 1 ~ 3
Result	: Pass

A sample calculation:

- Corr (correction factor) = Ant. Factor + Cable loss – (Amp.) (Below 1 GHz)
- Corr (correction factor) = Ant. Factor + Cable loss – (Amp.) (Above 1 GHz)
- Emission Level = meter reading + Corr
- Sample calculation; MODE 3
- Below 1 GHz (Quasi-Peak)
At Frequency : 120.016 MHz Result = Reading + Corr = 63.92 (dBμV/m) + (-23.1) dB = 40.82 dB(μV/m)
- Sample calculation; MODE 1
- Above 1 GHz (Average)
At Frequency : 17 678.372 MHz Result = Reading + Corr = 35.2 dB(μV/m) + (10.5) dB = 45.70 dB(μV/m)
- Measurement Data kept in ICR



**Limits of below 1 GHz - CLASS A**

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Distance (m)
30 to 88	90	10
88 to 216	150	
216 to 960	210	
Above 960	300	

Limits of below 1 GHz - CLASS B

Frequency Range (MHz)	Field strength ($\mu\text{V/m}$)	Distance (m)
30 to 88	100	3
88 to 216	150	
216 to 960	200	
Above 960	500	

Used equipments:**- Below 1 GHz**

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
☒	EMI Test Receiver	ESR7	R&S	101724	2021. 04. 16
☒	TRILOG BROAD BAND ANTENNA(KOLAS)	VULB 9162	SCHWARZBECK	143	2020. 12. 07
☒	RF Pre Amplifier	SCU 08	R&S	100744	2021. 04. 16
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63105	2021. 03. 04

- Above 1 GHz

Used	Equipment	Model name	Manufacturer	Serial No.	Next Cal.
☒	EMI Test Receiver	ESR26	R&S	101462	2021. 04. 16
☒	HORN ANTENNA (RRA)	HF907	R&S	102606	2021. 01. 24
☒	RF Pre Amplifier	SCU 18	R&S	102342	2021. 04. 16
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63106	2021. 03. 04

Test Software:

Used	Description	Model name	Manufacturer	Version.
☒	EMI Test Software	EMC32	R & S	10.01.00

Measurement Data:

- Refer to the Next page.



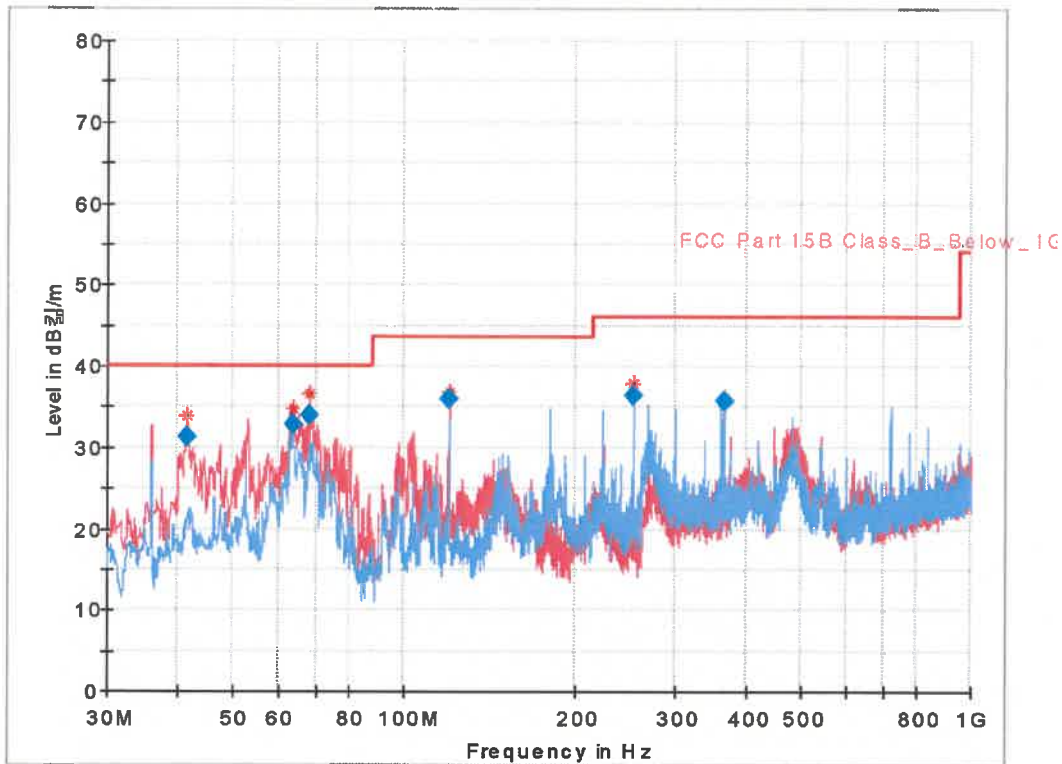


DATA(Mode 1) – 1 GHz Below

Test Report

Common Information

Test Description: AS R
Operating Conditions: ICR 3 m Chamber
Operator Name: CHAN PARK
Comment: MODE1_RE



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
41.543000	31.38	40.00	8.62	1000.0	120.000	100.0	V	281.0	-19.9
63.853000	32.82	40.00	7.18	1000.0	120.000	299.9	V	252.0	-21.5
68.121000	34.07	40.00	5.93	1000.0	120.000	200.1	V	273.0	-23.0
120.016000	36.01	43.50	7.49	1000.0	120.000	100.0	V	86.0	-23.1
252.809000	36.43	46.00	9.57	1000.0	120.000	100.0	H	97.0	-18.7
365.135000	35.68	46.00	10.32	1000.0	120.000	100.0	V	167.0	-15.8





DATA(Mode 2) – 1 GHz Below

Test Report

Common Information

Test Description:

PS R

Operating Conditions:

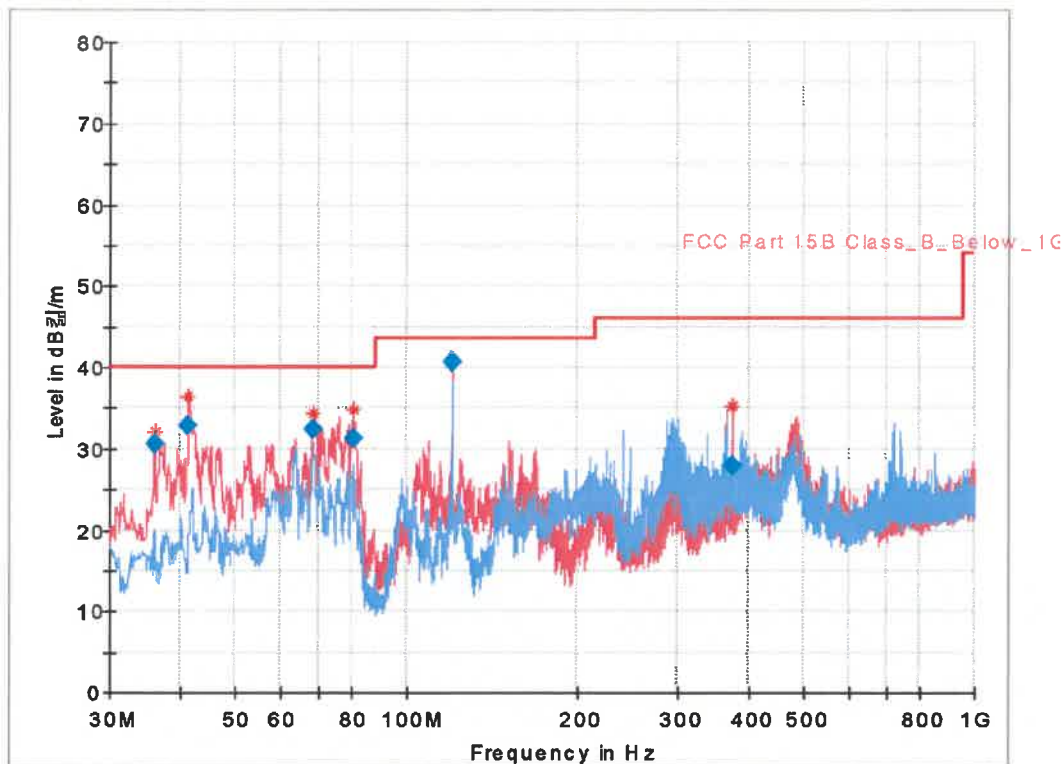
ICR 3 m Chamber

Operator Name:

CHAN PARK

Comment:

MODE2_RE



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
36.014000	30.70	40.00	9.30	1000.0	120.000	100.0	V	123.0	-21.7
41.349000	32.77	40.00	7.23	1000.0	120.000	100.0	V	304.0	-20.0
68.606000	32.40	40.00	7.60	1000.0	120.000	100.0	V	226.0	-23.2
80.634000	31.30	40.00	8.70	1000.0	120.000	200.1	V	245.0	-25.6
120.016000	40.66	43.60	2.84	1000.0	120.000	100.0	V	99.0	-23.1
373.380000	27.90	46.00	18.10	1000.0	120.000	200.1	V	32.0	-15.5



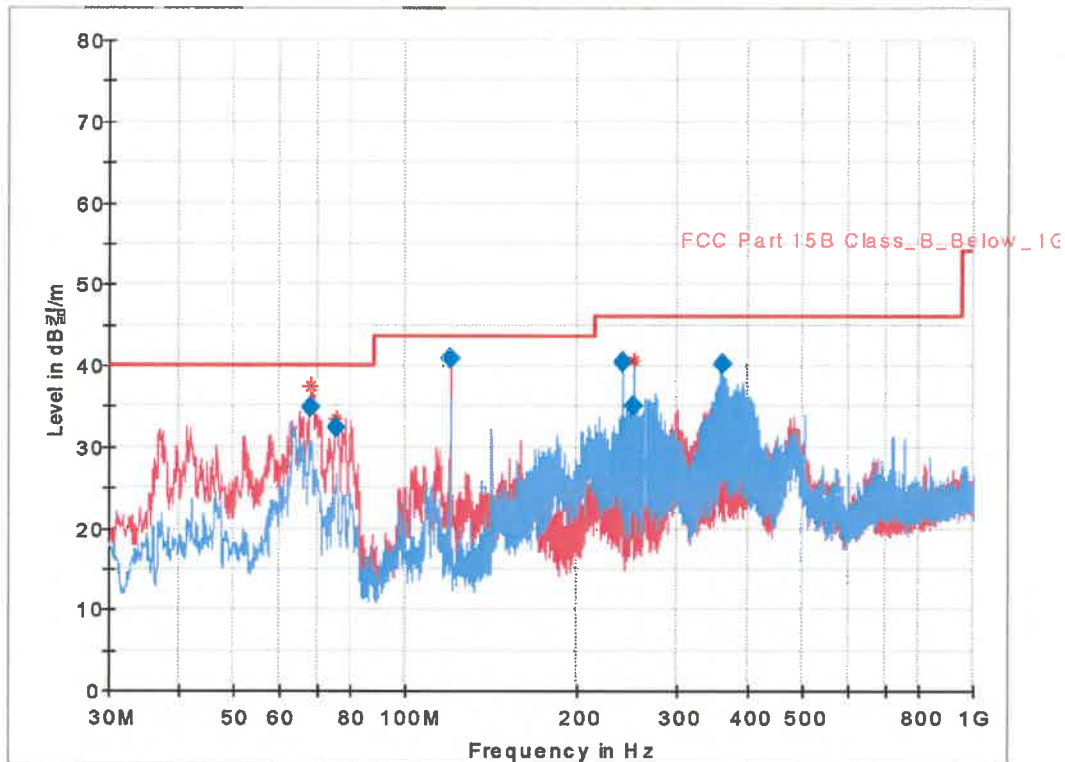


DATA(Mode 3) – 1 GHz Below

Test Report

Common Information

Test Description: PS R.M
Operating Conditions: ICR 3 m Chamber
Operator Name: CHAN PARK
Comment: MODE3_RE



Final Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
68.218000	34.89	40.00	5.11	1000.0	120.000	200.1	V	311.0	-23.1
75.493000	32.31	40.00	7.69	1000.0	120.000	100.0	V	319.0	-25.0
120.016000	40.82	43.50	2.68	1000.0	120.000	100.0	V	193.0	-23.1
240.005000	40.47	46.00	5.53	1000.0	120.000	100.0	H	278.0	-19.4
261.257000	35.00	46.00	11.00	1000.0	120.000	100.0	H	264.0	-18.8
360.091000	40.27	46.00	5.73	1000.0	120.000	100.0	H	299.0	-16.0



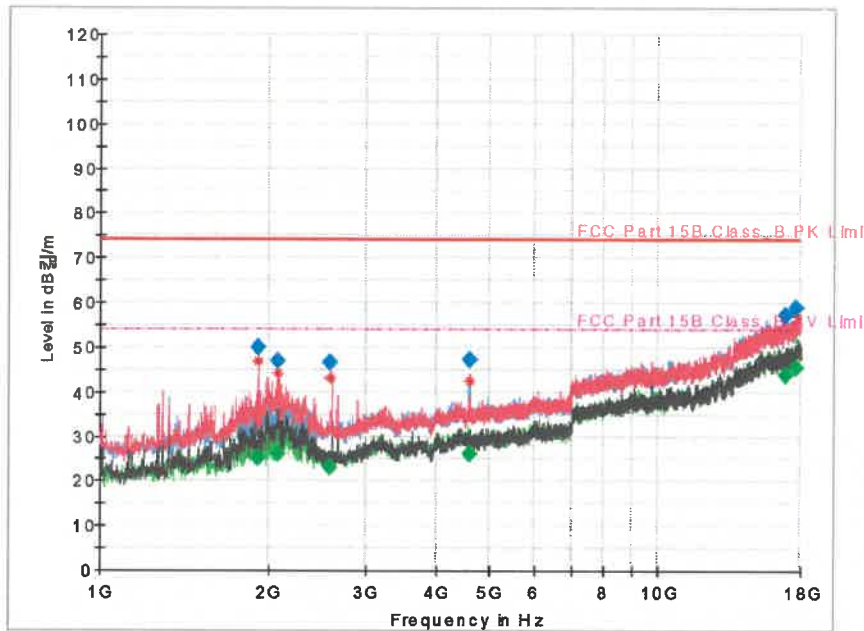


DATA(Mode 1) – 1 GHz Above

Test Report

Common Information

Test Description: AS R
Test Site: ICR 3 m Chamber
Operator Name: CHAN PARK
Comment: MODE1_REG



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1913.903	---	25.01	64.00	28.99	3000.0	1000.000	300.0	V	0.0	-14.5
1913.903	49.79	---	74.00	24.21	3000.0	1000.000	300.0	V	0.0	-14.6
2076.860	---	26.24	64.00	27.76	3000.0	1000.000	300.0	V	39.0	-13.4
2076.860	46.92	---	74.00	27.08	3000.0	1000.000	300.0	V	39.0	-13.4
2590.608	---	23.01	64.00	30.99	3000.0	1000.000	300.0	H	47.0	-12.0
2590.608	46.55	---	74.00	27.45	3000.0	1000.000	300.0	H	47.0	-12.0
4594.089	---	26.00	64.00	28.00	3000.0	1000.000	300.0	H	111.0	-5.7
4594.089	47.21	---	74.00	26.79	3000.0	1000.000	300.0	H	111.0	-5.7
16968.374	---	44.06	64.00	9.95	3000.0	1000.000	99.7	H	320.0	9.0
16968.374	57.26	---	74.00	16.75	3000.0	1000.000	99.7	H	320.0	9.0
17678.372	---	45.70	64.00	8.30	3000.0	1000.000	199.8	V	4.0	10.5
17678.372	58.83	---	74.00	15.17	3000.0	1000.000	199.8	V	4.0	10.5



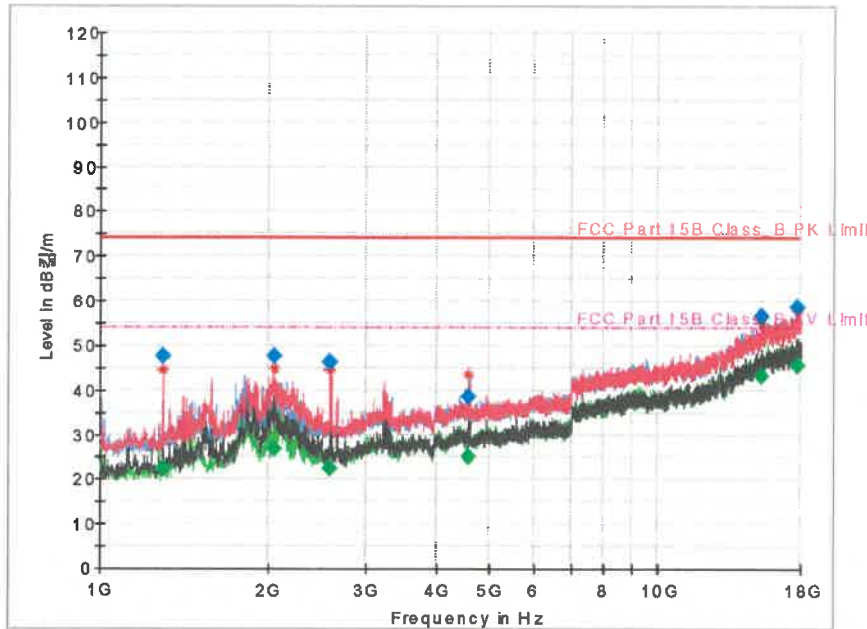


DATA(Mode 2) – 1 GHz Above

Test Report

Common Information

Test Description: PS R
Test Site: ICR 3 m Chamber
Operator Name: CHAN PARK
Comment: MODE2_REG



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1296.452	---	22.33	54.00	31.67	3000.0	1000.000	300.0	V	348.0	-18.3
1296.452	47.50	---	74.00	26.50	3000.0	1000.000	300.0	V	348.0	-18.3
2048.939	47.74	---	74.00	26.26	3000.0	1000.000	199.5	V	0.0	-13.5
2048.939	---	26.97	54.00	27.03	3000.0	1000.000	199.5	V	0.0	-13.5
2588.244	46.17	---	74.00	27.83	3000.0	1000.000	300.0	V	72.0	-12.0
2588.244	---	22.59	54.00	31.41	3000.0	1000.000	300.0	V	72.0	-12.0
4582.398	---	25.28	54.00	28.72	3000.0	1000.000	300.0	H	41.0	-5.7
4582.398	38.56	---	74.00	35.44	3000.0	1000.000	300.0	H	41.0	-5.7
15345.713	56.53	---	74.00	17.47	3000.0	1000.000	199.5	V	180.0	8.6
15345.713	---	43.29	54.00	10.71	3000.0	1000.000	199.5	V	180.0	8.6
17788.073	58.79	---	74.00	15.21	3000.0	1000.000	199.5	V	110.0	10.7
17788.073	---	45.58	54.00	8.42	3000.0	1000.000	199.5	V	110.0	10.7



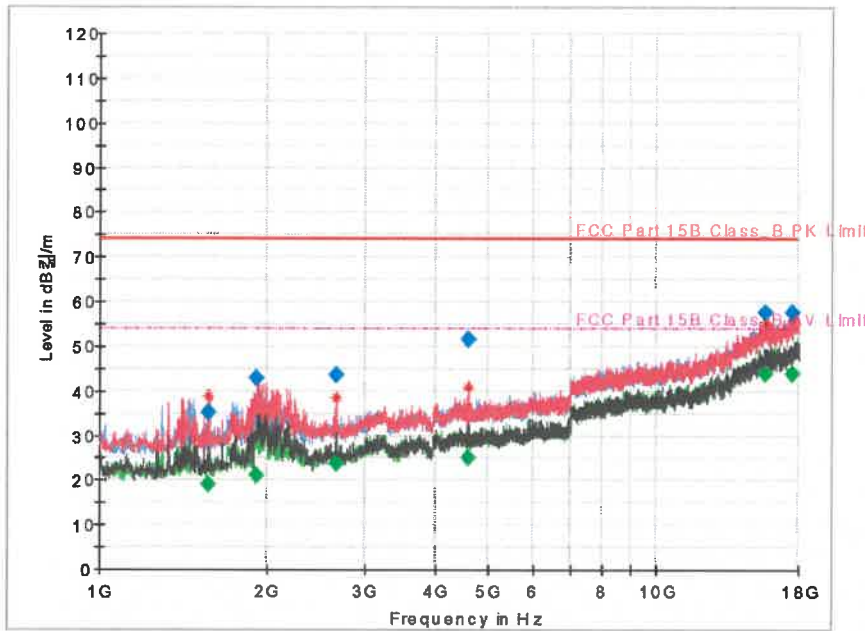


DATA(Mode 3) – 1 GHz Above

Test Report

Common Information

Test Description: PS R.M
Test Site: ICR 3 m Chamber
Operator Name: CHAN PARK
Comment: MODE3_REG



Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	CAverage (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1574.735	35.18	---	74.00	38.82	3000.0	1000.000	99.9	V	179.0	-16.5
1674.735	---	19.01	54.00	34.99	3000.0	1000.000	99.9	V	179.0	-16.5
1919.386	---	21.11	54.00	32.89	3000.0	1000.000	300.0	V	329.0	-14.4
1919.386	42.94	---	74.00	31.06	3000.0	1000.000	300.0	V	329.0	-14.4
2662.183	---	23.68	54.00	30.32	3000.0	1000.000	99.9	V	353.0	-11.8
2662.183	43.46	---	74.00	30.54	3000.0	1000.000	99.9	V	353.0	-11.8
4586.443	51.71	---	74.00	22.29	3000.0	1000.000	300.0	V	84.0	-5.7
4586.443	---	25.29	54.00	28.71	3000.0	1000.000	300.0	V	84.0	-5.7
15748.329	---	43.81	54.00	10.19	3000.0	1000.000	99.9	V	36.0	8.2
15748.329	57.64	---	74.00	16.36	3000.0	1000.000	99.9	V	36.0	8.2
17504.690	---	44.01	54.00	9.99	3000.0	1000.000	199.8	V	0.0	10.2
17504.690	57.70	---	74.00	16.30	3000.0	1000.000	199.8	V	0.0	10.2





6.2 Conducted disturbance

Definition:

The test assesses the ability of the EUT to limit its internal noise from being present on the AC mains Power and Signal Line In / Output ports.

Test method	: FCC Part 15.107, Class B
Test Date	: 2020. 10. 19
Measurement Frequency range and RBW	: 150 kHz to 30 MHz : 9 kHz
Temperature, Humidity	: (20.3 to 21.2) °C, (38.1 to 39.4) % R.H.
Test mode	: Mode 1 ~ 3
Result	: Pass

A sample calculation:

- Corr (correction factor) = LISN Insertion loss + Cable loss
- Emission Level = meter reading + Corr
- Sample calculation; Mode 2_LIVE
- At Frequency: 0.438 MHz Result = Reading + Corr = 26.58 dB(μV) + (9.9) dB = 36.48 dB(μV)
(☐ Quasi-peak, ☒ Average)
- Measurement Data kept in ICR





Limits for conducted emissions from the AC mains ports of class A equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	Average [dB(μV)]
0.15 to 0.5	79	66
0.5 to 30	73	60

Limits for conducted emissions from the AC mains ports of class B equipment.

Applicable to AC mains power port		
Frequency Range (MHz)	Quasi-Peak [dB(μV)]	Average [dB(μV)]
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
* Decreases with the logarithm of the frequency		

Used equipments:

Used	Equipment	Model no.	Makers	Serial no.	Next Cal.
☒	EMI Test Receiver	ESR3	R&S	102119	2021. 04. 16
☒	LISN(main)	ENV216	R&S	102194	2021. 04. 16
☒	LISN(sub)	ENV216	R&S	102193	2021. 04. 16
☒	HUMIDITY/TEMP. DATA RECORDER	MHT-381SD	LUTRON	AI.63101	2021. 03. 04

Test Software:

Used	Description	Model name	Manufacturer	Version.
☒	EMI Test Software	EMC32	R & S	10.01.02

Measurement Data:

- Refer to the Next page.



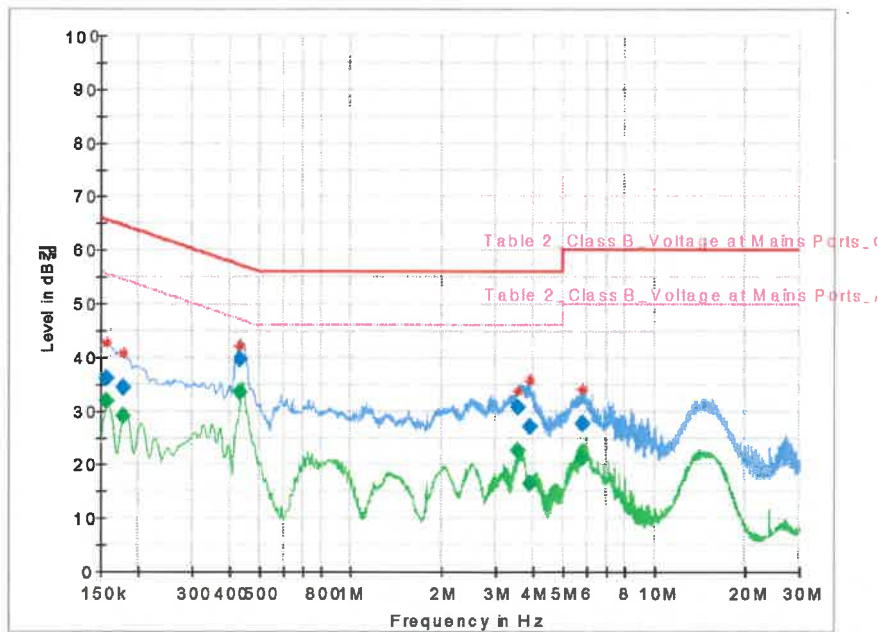


DATA(Mode 1)_LIVE

Test Report

Common Information

Test Description: AS R
Test Site: ICR Shield Room
Operator Name: CHAN PARK
Comment: MODE1_LIVE



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156750	---	31.91	55.63	23.72	5000.0	9.000	L1	ON	9.8
0.156750	36.15	---	55.63	29.48	5000.0	9.000	L1	ON	9.8
0.177000	---	29.19	54.63	25.44	5000.0	9.000	L1	ON	9.9
0.177000	34.49	---	54.63	30.14	5000.0	9.000	L1	ON	9.9
0.433500	---	33.50	47.19	13.68	5000.0	9.000	L1	ON	9.9
0.433500	39.55	---	47.19	17.64	5000.0	9.000	L1	ON	9.9
3.558750	---	22.73	46.00	23.27	5000.0	9.000	L1	ON	9.7
3.558750	30.68	---	46.00	25.32	5000.0	9.000	L1	ON	9.7
3.882750	---	16.57	46.00	29.43	5000.0	9.000	L1	ON	9.7
3.882750	26.96	---	46.00	29.04	5000.0	9.000	L1	ON	9.7
5.817750	---	21.27	50.00	28.73	5000.0	9.000	L1	ON	9.7
5.817750	27.64	---	50.00	32.36	5000.0	9.000	L1	ON	9.7



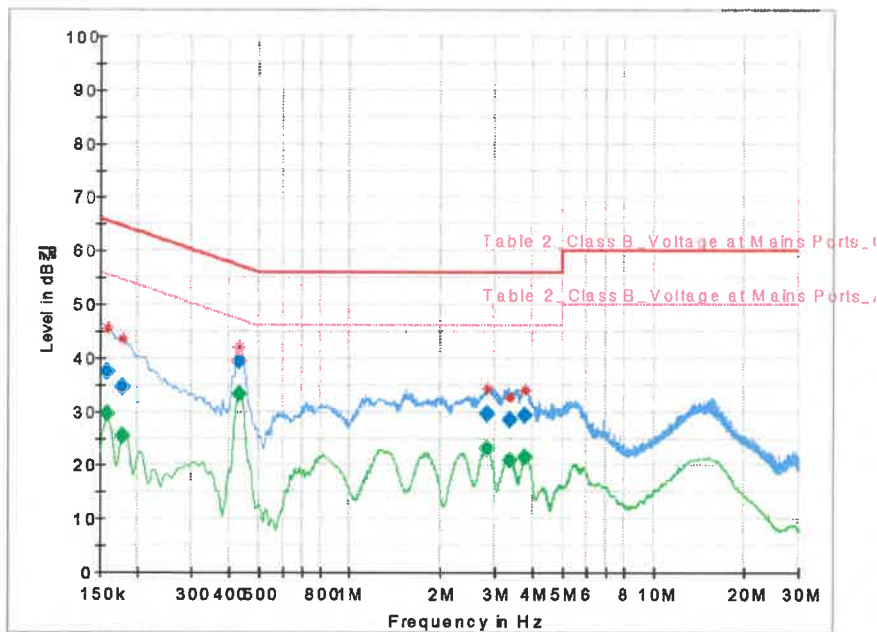


DATA(Mode 1)_ NEUTRAL

Test Report

Common Information

Test Description: AS R
Test Site: ICR Shield Room
Operator Name: CHAN PARK
Comment: MODE1_NEUTRAL



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	---	29.58	55.52	25.94	5000.0	9.000	N	ON	9.8
0.159000	37.49	---	55.52	28.02	5000.0	9.000	N	ON	9.8
0.177000	---	25.54	54.63	29.09	5000.0	9.000	N	ON	9.9
0.177000	34.75	---	54.63	29.88	5000.0	9.000	N	ON	9.9
0.433500	---	33.16	47.19	14.03	5000.0	9.000	N	ON	9.9
0.433500	39.32	---	47.19	17.87	5000.0	9.000	N	ON	9.9
2.829750	---	23.24	46.00	22.76	5000.0	9.000	N	ON	9.7
2.829750	29.60	---	46.00	26.40	5000.0	9.000	N	ON	9.7
3.358500	---	21.05	46.00	24.95	5000.0	9.000	N	ON	9.7
3.358500	28.41	---	46.00	27.59	5000.0	9.000	N	ON	9.7
3.779250	---	21.40	46.00	24.60	5000.0	9.000	N	ON	9.7
3.779250	29.26	---	46.00	26.74	5000.0	9.000	N	ON	9.7



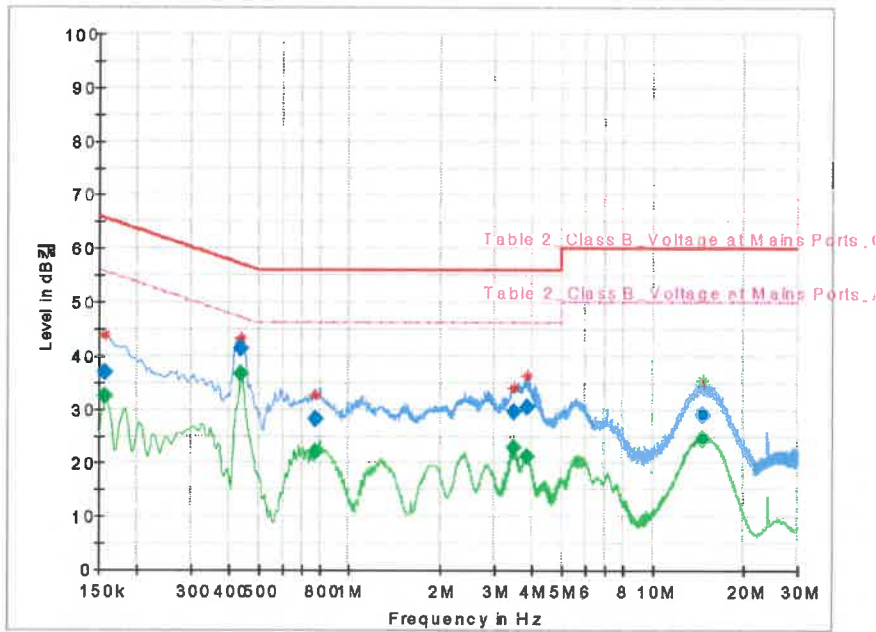


DATA(Mode 2)_LIVE

Test Report

Common Information

Test Description: PS R
Test Site: ICR Shield Room
Operator Name: CHAN PARK
Comment: MODE2_LIVE



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156750	---	32.32	55.63	23.32	5000.0	9.000	L1	ON	9.8
0.156750	36.83	---	55.63	28.80	5000.0	9.000	L1	ON	9.8
0.438000	---	36.48	47.10	10.62	5000.0	9.000	L1	ON	9.9
0.438000	41.29	---	57.10	15.81	5000.0	9.000	L1	ON	9.9
0.775500	---	22.02	46.00	23.98	5000.0	9.000	L1	ON	9.8
0.775500	28.20	---	56.00	27.80	5000.0	9.000	L1	ON	9.8
3.475500	---	23.04	46.00	22.96	5000.0	9.000	L1	ON	9.7
3.475500	29.65	---	56.00	26.35	5000.0	9.000	L1	ON	9.7
3.837750	---	21.14	46.00	24.86	5000.0	9.000	L1	ON	9.7
3.837750	30.34	---	56.00	25.66	5000.0	9.000	L1	ON	9.7
14.649000	---	24.69	60.00	25.41	5000.0	9.000	L1	ON	9.8
14.649000	29.05	---	60.00	30.95	5000.0	9.000	L1	ON	9.8



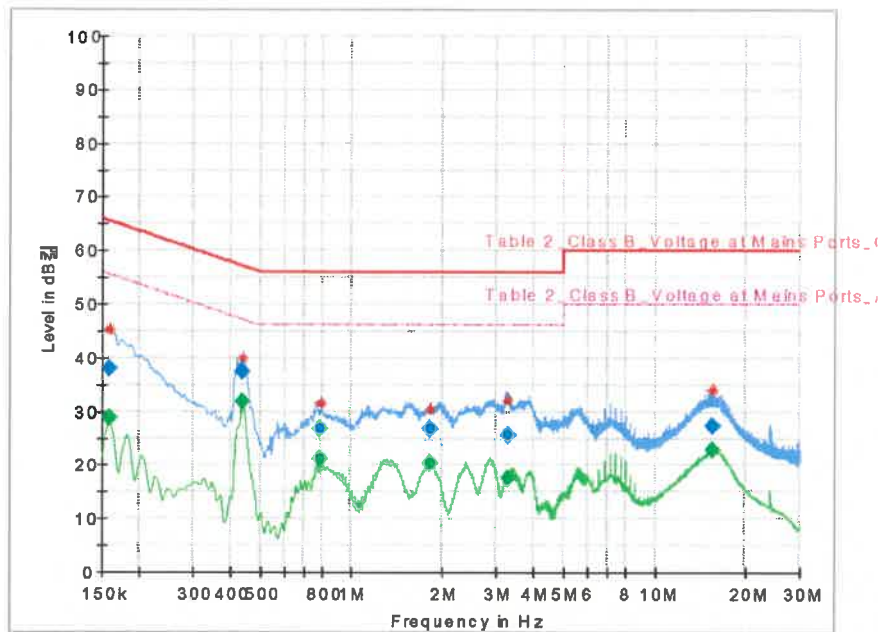


DATA(Mode 2)_ NEUTRAL

Test Report

Common Information

Test Description: PS R
Test Site: ICR Shield Room
Operator Name: CHAN PARK
Comment: MODE2_NEUTRAL



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.159000	---	28.73	55.52	26.79	5000.0	9.000	N	ON	9.8
0.159000	38.11	---	55.52	27.40	5000.0	9.000	N	ON	9.8
0.435750	---	31.78	47.14	15.37	5000.0	9.000	N	ON	9.9
0.435750	37.40	---	57.14	19.74	5000.0	9.000	N	ON	9.9
0.793500	---	21.19	46.00	24.81	5000.0	9.000	N	ON	9.8
0.793500	26.85	---	56.00	29.15	5000.0	9.000	N	ON	9.8
1.824000	---	20.31	46.00	25.69	5000.0	9.000	N	ON	9.7
1.824000	26.93	---	56.00	29.07	5000.0	9.000	N	ON	9.7
3.284250	---	17.46	46.00	28.54	5000.0	9.000	N	ON	9.7
3.284250	25.75	---	56.00	30.25	5000.0	9.000	N	ON	9.7
15.501750	---	22.82	50.00	27.18	5000.0	9.000	N	ON	9.8
15.501750	27.41	---	60.00	32.59	5000.0	9.000	N	ON	9.8



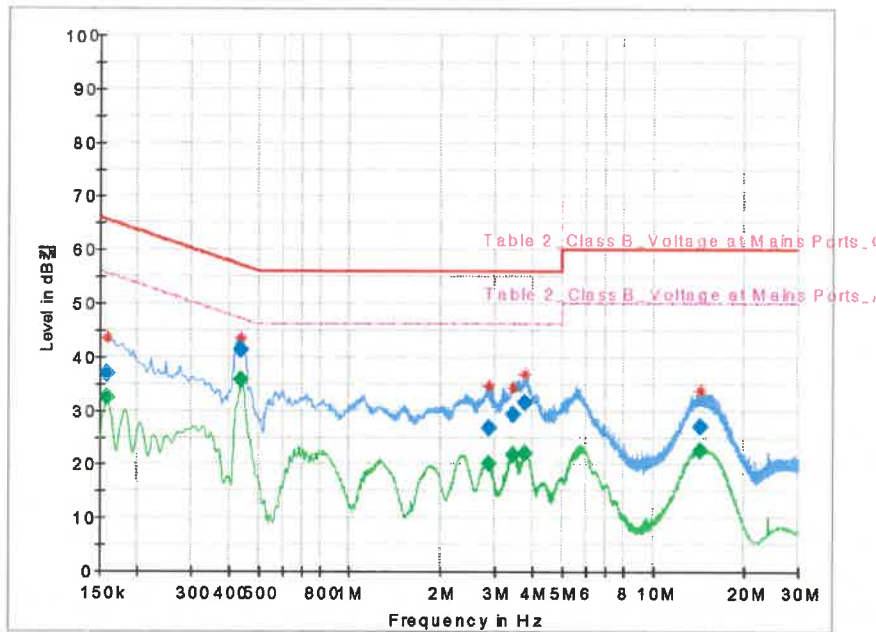


DATA(Mode 3)_LIVE

Test Report

Common Information

Test Description: PS R.M
Test Site: ICR Shield Room
Operator Name: CHAN PARK
Comment: MODE3_LIVE



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.169000	---	32.42	55.52	23.09	5000.0	9.000	L1	ON	9.8
0.169000	36.81	---	55.52	28.71	5000.0	9.000	L1	ON	9.8
0.435750	---	35.85	47.14	11.29	5000.0	9.000	L1	ON	9.9
0.435750	41.24	---	57.14	15.90	5000.0	9.000	L1	ON	9.9
2.859000	---	20.00	46.00	26.00	5000.0	9.000	L1	ON	9.7
2.859000	26.85	---	56.00	29.15	5000.0	9.000	L1	ON	9.7
3.441750	---	21.65	46.00	24.35	5000.0	9.000	L1	ON	9.7
3.441750	29.36	---	56.00	26.64	5000.0	9.000	L1	ON	9.7
3.777000	---	22.20	46.00	23.80	5000.0	9.000	L1	ON	9.7
3.777000	31.44	---	56.00	24.57	5000.0	9.000	L1	ON	9.7
14.376750	---	22.65	50.00	27.35	5000.0	9.000	L1	ON	9.8
14.376750	27.03	---	60.00	32.98	5000.0	9.000	L1	ON	9.8





DATA(Mode 3)_ NEUTRAL

Test Report

Common Information

Test Description:

PS R.M

Test Site

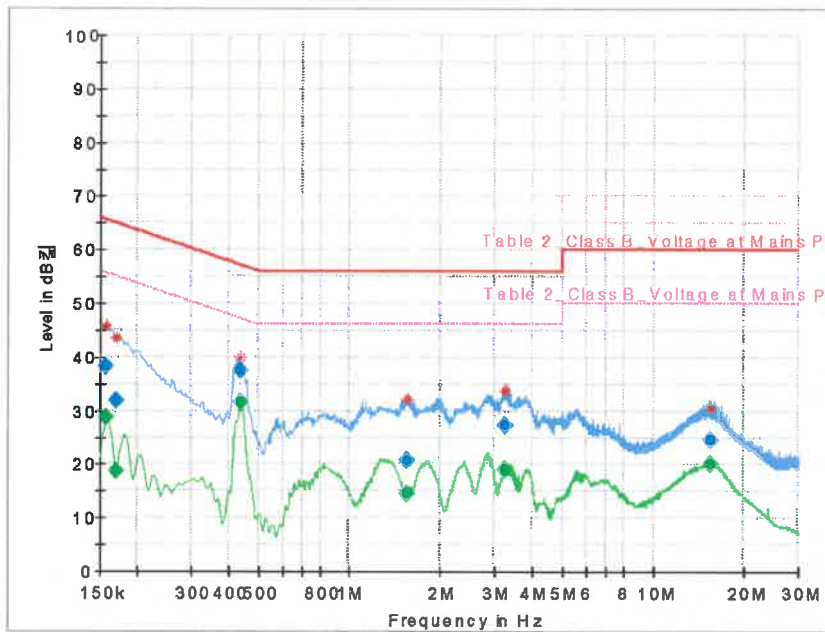
ICR Shield Room

Operator Name:

CHAN PARK

Comment

MODE3_NEUTRAL



Final Result

Frequency (MHz)	QuasiPeak (dBμV)	CAverage (dBμV)	Limit (dBμV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.156750	---	28.76	55.63	26.87	5000.0	9.000	N	ON	9.8
0.156750	38.19	---	55.63	27.44	5000.0	9.000	N	ON	9.8
0.170250	---	18.78	54.95	36.17	5000.0	9.000	N	ON	10.0
0.170250	31.98	---	54.95	32.97	5000.0	9.000	N	ON	10.0
0.435750	---	31.54	47.14	15.60	5000.0	9.000	N	ON	9.9
0.435750	37.31	---	47.14	19.84	5000.0	9.000	N	ON	9.9
1.549500	---	14.54	46.00	31.46	5000.0	9.000	N	ON	9.7
1.549500	20.58	---	46.00	35.42	5000.0	9.000	N	ON	9.7
3.237000	---	19.03	46.00	26.97	5000.0	9.000	N	ON	9.7
3.237000	27.40	---	46.00	28.60	5000.0	9.000	N	ON	9.7
15.441000	---	20.25	50.00	29.75	5000.0	9.000	N	ON	9.8
15.441000	24.55	---	50.00	35.45	5000.0	9.000	N	ON	9.8

- END -

