

SIRIM QAS International Sdn. Bhd. (Company No.: 199601037981 (410334-X))

No. 1, Persiaran Dato' Menteri, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan, Malaysia Tel: 603-55446169 www.sirim-qas.com.my





#### **TEST REPORT**

REPORT NO.: 2022RE0119 (FCC ID:2A65I-GC866995)

PAGE: 1 OF 32

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#### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : PICOSYS SDN BHD (1274049-H)

SS-02-26 Sky-Pod Square

Persiaran Puchong Jaya Selatan

Pusat Bandar Puchong

47100 Puchong Selangor, Malaysia

Manufacturer : PICOSYS SDN BHD (1274049-H)

Product : Online Rehab Virtual Assistance

Reference Standard /

Method of test

: FCC Subpart C 15.247 / [1] ANSI C63.10-2013

[2] KDB 558074 v05r02

Description of

Sample

: Brand Name : PICOSYS

Model : ORVA

Date Received of

: 07 FEBRUARY 2023

Complete Application

: J20221410015

Job No. : J20221410018

Overall Test Result : The test results for the submitted test samples as described in this test report

complied with the requirements of the above reference standard.

Issued Date : 09 MARCH 2023

Approved Signatories,

(ZUL HJ. JAAFAR)
Group Leader
RF Laboratory



~/ Lun ..

(ZARISMAIL ABD RAHMAN)
Head
RF & EMC Testing Section
Testing Services Department

PAGE: 2 OF 35

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#### **TABLE OF CONTENTS**

No.	Contents	Page
1.0	SUMMARY OF RESULTS	3
2.0	INTRODUCTION	4
3.0	EQUIPMENT UNDER TEST DESCRIPTION	5
3.0	TEST PROCEDURES AND RESULTS	6
4.0	TEST INSTRUMENT	34
	CONDITIONS RELATING TO THE USE OF SIRIM QQS INTERNATIONAL TEST REPORT	35
NOTES:		

1. All tests were carried out at ambient temperature of +15°C to + 35°C and relative humidity of 20% to 75%.

Ambient temperature (minimum) : 24 °C Ambient temperature (maximum) : 25 °C Relative Humidity (minimum) : 49 % Relative Humidity (maximum) : 50 %

- 2. All the reported uncertainty is calculated using coverage factor k= 1.96, which gives a level of confidence of approximately 95%.
- 3. Test Facility:

FCC Designation No: MY0005

SIRIM QAS International Sdn. Bhd. Block 11 Sirim Complex No. 1 Persiaran Dato' Menteri, Section 2, 40700 Shah Alam, Selangor Darul Ehsan, Malaysia

4. Date of test sample(s) received:

a) 1<sup>st</sup> submission : 07 February 2023

5. Date of sample(s) tested :

a) 1<sup>st</sup> test : 07 February 2023

Tested by : Hafizah Zainal Abiddin

Reviewed by : Zul Hi Jaafar



PAGE: 3 OF 35

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### 1.0 SUMMARY OF RESULTS

The summary of the test results as follows:

FCC Part Section	Test Description	Result
15.247 (a) (2)	Occupied Bandwidth	PASS
15.247 (b) (3)	Output Power	PASS
15.247 (e)	Power Spectral Density	PASS
15.247 (d)	Conducted Band Edge Conducted Out of Band Emission	PASS
15.207	AC Conducted Emission	*NOT APPLICABLE
15.209	Radiated Spurious Emission  Radiated Band Edge	PASS

\*Note:



a) Not Applicable for battery operated product

PAGE: 4 OF 35

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### 3.0 EQUIPMENT UNDER TEST DESCRIPTION

The following data is base	d or	the information provided by applicant.
Type of Product	:	Combined Equipment  Plug in radio Device  √ Stand Alone
Mode of	i	√ Continuous
Transmission		Burst Intermittent
		memment
Signal transmission	:	Frequency Hopping Spread Spectrum (FHSS)
techniques		√ Non FHSS
Type of Modulation	:	Gaussian Frequency Shift Keying (GFSK)
Operating Voltage	:	3 Vdc
RF Output Power	:	4 dBm
EUT Antenna Gain	:	3.7 dBi
Operating Frequency	•	Bluetooth Low Energy (BLE) 2402 MHz – 2480 MHz
Range		
Software	ŀ	J-Link RTT Viewer V7.80a



PAGE: 5 OF 35

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#### 3.0 TEST PROCEDURES & RESULTS

### 3.1 Occupied Bandwidth

### 3.1.1 Test Setup

The Occupied Bandwidth measurement was performed using conducted measurement method inside Shielded Room in accordance with clause 11.8.2 of ANSI C63.10-2013 as shown in Figure 3.1.1.

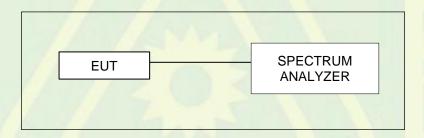


Figure 3.1.1: Configuration Test Setup for Conducted Measurement

#### 3.1.2 Test Method

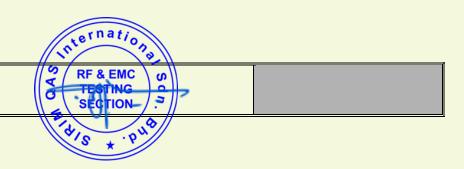
The EUT output is connected to the Spectrum Analyzer in its normal operating mode. The 6dB bandwidth measurement has been performed with following spectrum analyzer setting:

i. Resolution Bandwidth (RBW): 100 kHz

ii. Video Bandwidth (VBW): 300 kHz

iii. Detector: Peak

iv. Trace mode: Max Hold



PAGE: 6 OF 35

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#### 3.1.3 Test Limit

The Occupied Bandwidth measurement shall not exceed the value given in Table 3.1.3.

Table 3.1.3: Limit of Occupied Bandwidth

Limit FCC Part 15.247 (a) (2)						
Occupied Bandwidth	≥ 500 kHz.					

### 3.1.4 Test Result

Table 3.1.4: Test Result of Occupied Bandwidth

Channel	Frequency (MHz)	Data Rate	Occupied Bandwidth (kHz)	Graph	Result
Low	2402		505.31	Graph 1.0	PASS
Middle	2440	1 Mbps	504.03	Graph 2.0	PASS
High	2480		503.93	Graph 3.0	PASS
Low	2402		861.06	Graph 4.0	PASS
Middle	2440	2 Mbps	854.17	Graph 5.0	PASS
High	2480		862.71	Graph 6.0	PASS

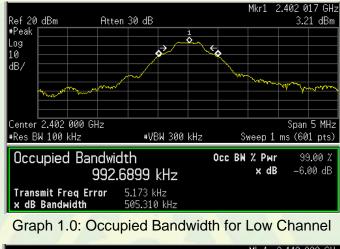


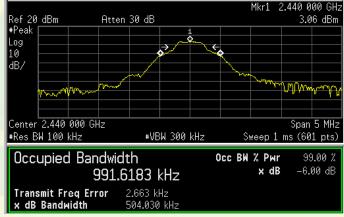
PAGE: 7 OF 35

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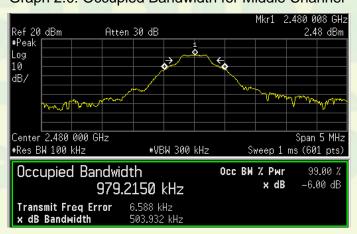
### 3.1.5 Graph

#### 3.1.5.1 Data Rate: 1 Mbps





Graph 2.0: Occupied Bandwidth for Middle Channel



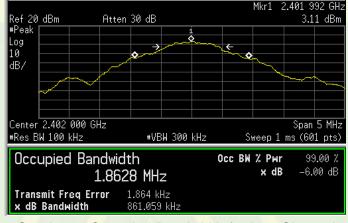
Graph 3.0: Occupied Bandwidth for High Channel



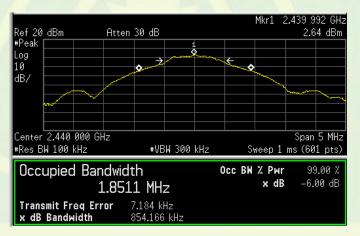
PAGE: 8 OF 35

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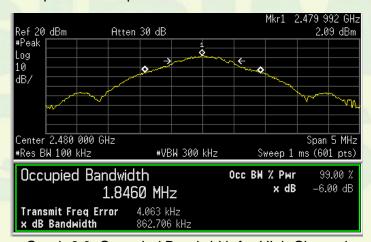
#### 3.1.5.2 Data Rate: 2 Mbps



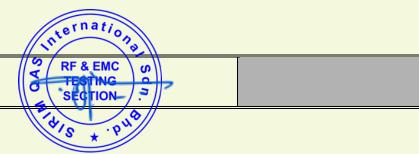
Graph 4.0: Occupied Bandwidth for Low Channel



Graph 5.0: Occupied Bandwidth for Middle Channel



Graph 6.0: Occupied Bandwidth for High Channel



PAGE: 9 OF 35

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# 3.2 Output Power

### 3.2.1 Test Setup

The Output Power measurement was performed using conducted measurement method in Shielded Room in accordance with clause 11.9.1.1 of ANSI C63.10-2013 as shown in Figure 3.1.1.

#### 3.2.2 Test Method

The EUT output is connected to the Spectrum Analyzer in its normal operating mode. The Output Power measurement has been performed with following spectrum analyzer setting:

i. Resolution Bandwidth (RBW): 1 MHz

ii. Video Bandwidth (VBW): 3 MHz

iii. Span: 3 x RBW

iv. Sweep Time: auto

v. Detector: peak

vi. Trace Mode: max hold

#### 3.2.3 Test Limit

The Output Power shall not exceed the value given in Table 3.2.3.

**Table 3.2.3: Limit of Output Power** 

Limit FCC Part 15.247 (b) (3)					
Output Power	≤ 30dBm				



PAGE: 10 OF 35

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### 3.2.4 Test Result

**Table 3.2.4: Test Result of Output Power** 

Channel	Frequency (MHz)	Data Rate	RF Level (dBm)	Cable Loss (dB)	Output Power (dBm)	Graph	Result
Low	2402		4.00	0.42	4.42 ± 1.58	Graph 7.0	PASS
Middle	2440	1 Mbps	3.52	0.42	3.94 ± 1.58	Graph 8.0	PASS
High	2480	1//	3.21	0.42	3.63 ± 1.58	Graph 9.0	PASS
Low	2402	1//	3.95	0.42	4.37 ± 1.58	Graph 10.0	PASS
Middle	2440	2 Mbps	4.06	0.42	4.48 ± 1.58	Graph 11.0	PASS
High	2480	17./	3.81	0.42	4.23 ± 1.58	Graph 12.0	PASS

#### \*Note:

1. Output Power = RF Level + Cable Loss

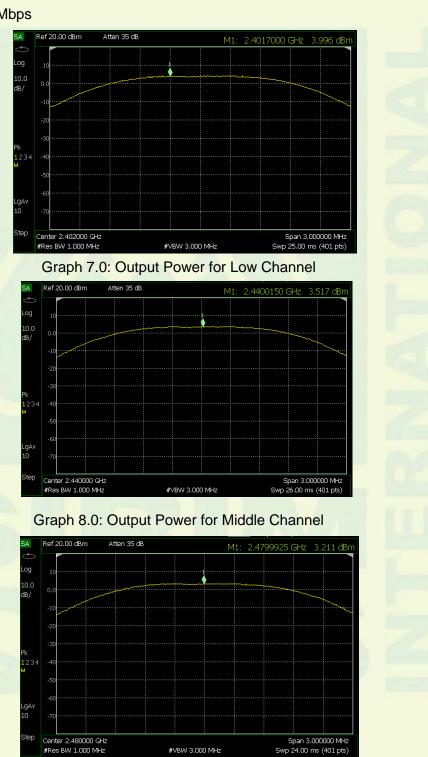


PAGE: 11 OF 35

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3.2.5 Graph

3.2.5.1 Data Rate: 1 Mbps



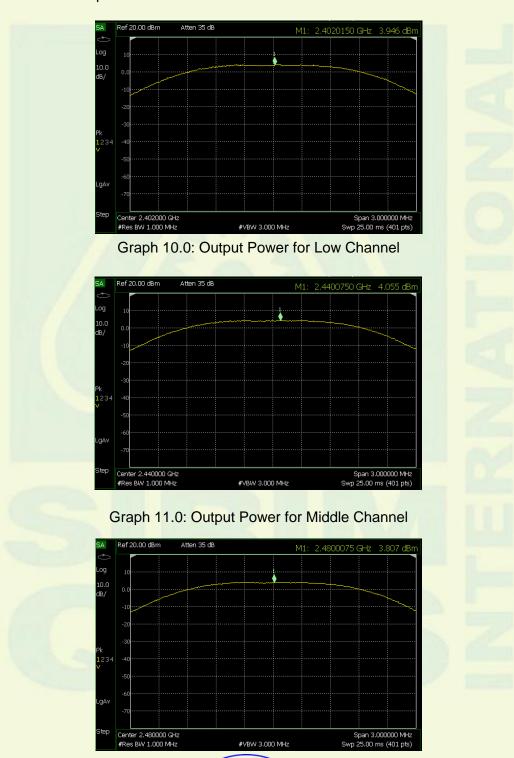
Graph 9.0: Output Power for High Channel

RF & EMC OF TESTING SECTION S

PAGE: 12 OF 35

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### 3.2.5.2 Data Rate: 2 Mbps



Graph 12.0: Output Power for High Channel

RF & EMC OF TESTING SECTION S

PAGE: 13 OF 35

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# 3.3 Power Spectral Density

### 3.3.1 Test Setup

The Power Spectral Density measurement was performed using conducted measurement method in Shielded Room in accordance with clause 11.10.2 of ANSI C63.10-2013 as shown in Figure 3.1.1.

#### 3.3.2 Test Method

The configuration of spectrum analyzer has been set as follow:

i. Resolution Bandwidth (RBW): 3 kHz

ii. Video Bandwidth (VBW): 10 kHz

iii. Span: 1.5 times the DTS bandwidth

iv. Detector: peak

v. Sweep time: auto

vi. Trace mode: max hold

vii. The measurement was performed based on data rate 1 Mbps and 2 Mbps

#### 3.3.3 Test Limit

The Power Spectral Density shall not exceed the value given in the Table 3.3.3.

Table 3.3.3: Limit of Power Spectral Density

Limit FCC Part 15.247 (e)						
Power Spectral Density	< 8 dBm/3kHz					



PAGE: 14 OF 35

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#### 3.3.4 Test Result

**Table 3.3.4: Test Result of Power Spectral Density** 

Channel	Frequency (MHz)	Data Rate	Power Spectral Density (dBm/3kHz)	Graph	Result
Low	2402		-10.77 ± 1.58	Graph 13.0	PASS
Middle	2440	1 Mbps	-10. <mark>97 ±</mark> 1.58	Graph 14.0	PASS
High	2480		-10. <mark>92 ± 1.58</mark>	Graph 15.0	PASS
Low	2402		-9.08 ± 1.58	Graph 16.0	PASS
Middle	2440	2 Mbps	-8.27 ± 1.58	Graph 17.0	PASS
High	2480	1/2	-10.96 ± 1.58	Graph 18.0	PASS



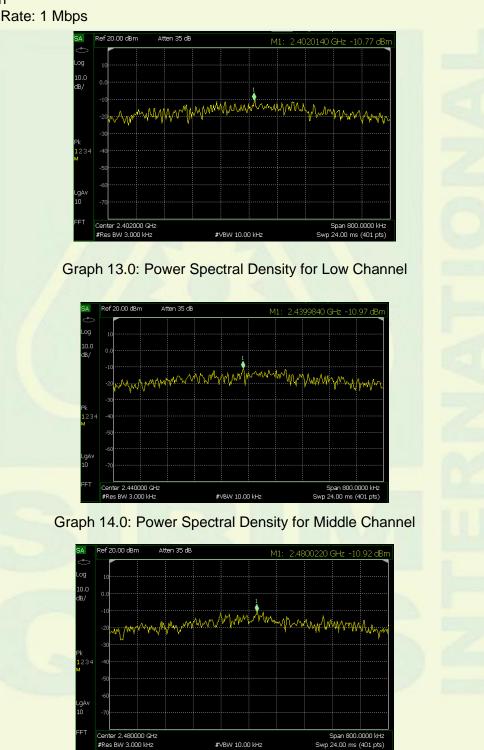


PAGE: 15 OF 35

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3.3.5 Graph

3.3.5.1 Data Rate: 1 Mbps



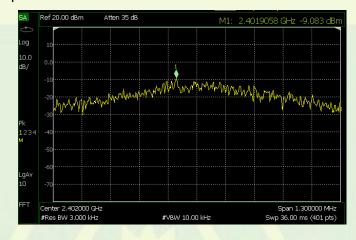
Graph 15.0: Power Spectral/Density for High Channel

RF & EMC OF TESTING SECTION S

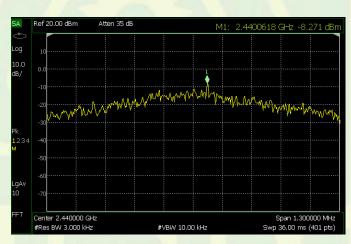
PAGE: 16 OF 35

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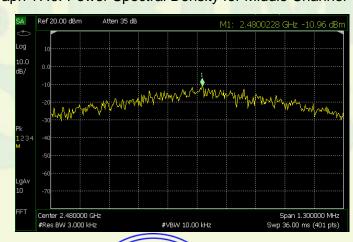
### 3.3.5.2 Data Rate: 2 Mbps



Graph 16.0: Power Spectral Density for Low Channel



Graph 17.0: Power Spectral Density for Middle Channel



Graph 18.0: Power Spectral Density for High Channel

RF & EMC OF TESTING OF SECTION S

PAGE: 17 OF 35

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# 3.4 Conducted Band Edge / Out of Band Emission

### 3.4.1 Test Setup

The Conducted Band Edge/ Out of Band Emission measurement was performed using conducted measurement method in Shielded Room in accordance with clause 11.11.3 of ANSI C63.10-2013 as shown in Figure 3.1.1.

- 3.4.2 Test Method for Conducted Band Edge/ Out of Band Emission
- 3.4.2.1 Test Method for Conducted Out of Band Emission

The following method has been executed to determine the Out of Band Emission:

- i. The spectrum analyzer has been set according to following setting:
  - Resolution Bandwidth (RBW): 100 kHz
  - Video Bandwidth (VBW): 300 kHz
  - Detector Mode: Peak
  - Trace Mode: Max Hold
- ii. All graphs have been recorded.
- iii. Any emission detected should be below the limit value as per Table 3.4.3.
- iv. Step i and ii is repeated for Low, Middle and High Channel.



PAGE: 18 OF 35

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# 3.4.2.2 Test Method for Conducted Band Edge

The following method has been executed to determine the Band Edge:

i. The spectrum analyzer has been set according to following setting:

• Resolution Bandwidth (RBW): 100 kHz

Video Bandwidth (VBW): 300 kHz

Detector Mode: Peak

Trace Mode: Max Hold

- ii. All graphs have been recorded.
- iii. Any emission detected should be below the limit value as per Table 3.4.3.
- iv. Step i is repeated for Low and High channel.

#### 3.4.3 Test Limit

The Conducted Band Edge/ Out of Band Emission shall not exceed the value given in the Table 3.4.3.

Table 3.4.3: Limit of Band Edge/ Out of Band Emission

Limit FCC Part 15.247 (d)				
Band Edge/ Out of Band Emission	≥ 20 dBc			



PAGE: 19 OF 35

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### 3.4.4 Test Result

### 3.4.4.1 Conducted Out of Band Emission

Table 3.4.4.1: Test Result of Out of Band Emission

Channel	Frequency (MHz)	Data Rate	Level (dB)	Graph	Result
Low	2402			Graph 19.0 & 20.0	PASS
Middle	2440	1 Mbps		Graph 21.0 & 22.0	PASS
High	2480	/-//	No oritical pools	Graph 23.0 & 24.0	PASS
Low	2402	TV A	No critical peak	Graph 25.0 & 26.0	PASS
Middle	2440	2 Mbps	A 211	Graph 27.0 & 28.0	PASS
High	2480	1/15		Graph 29.0 & 30.0	PASS

# 3.4.4.2 Conducted Band Edge

Table 3.4.4.2: Test Result of Conducted Band Edge

Channel	Frequency (MHz)	Data Rate	Level (dBc)	Graph	Result
Low	2402	1 Mbps	38.64	Graph 31.0	PASS
High	2480		48.47	Graph 32.0	PASS
Low	2402	O Miles	37.43	Graph 33.0	PASS
High	2480	2 Mbps	48.00	Graph 34.0	PASS



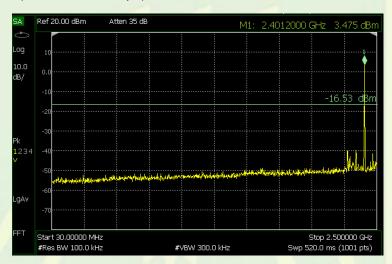
PAGE: 20 OF 35

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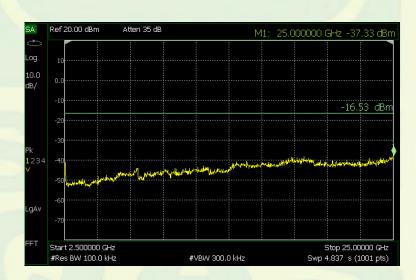
# 3.4.5 Graph

### 3.4.5.1 Out of Band Emission

# 3.4.5.1.1Low Channel (Data Rate: 1Mbps)



Graph 19.0: Frequency 30 MHz to 2.5 GHz



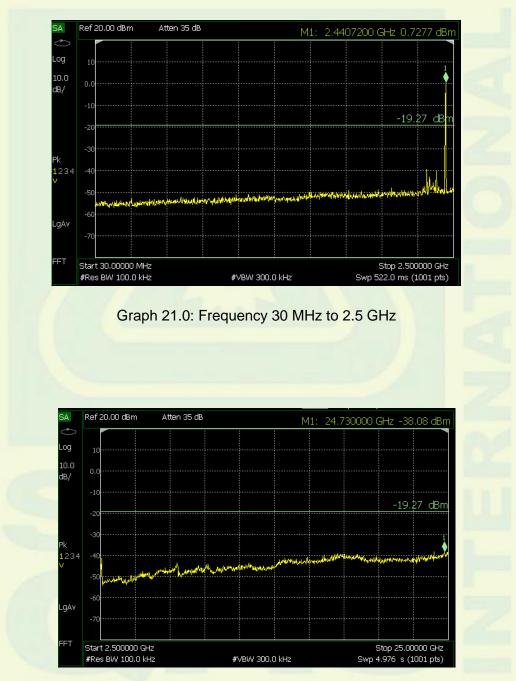
Graph 20.0: Frequency 2.5 GHz to 25 GHz



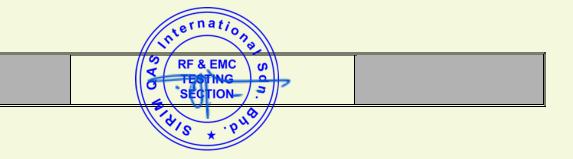
PAGE: 21 OF 35

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# 3.4.5.1.2 Middle Channel (Data Rate: 1Mbps)



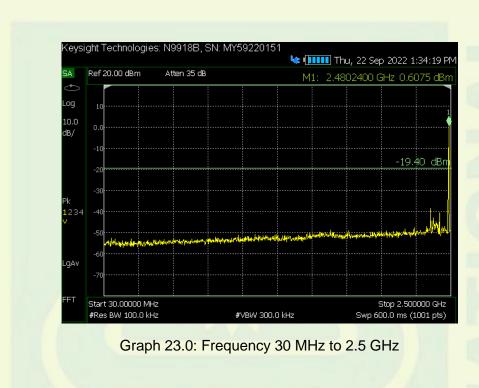
Graph 22.0: Frequency 2.5 GHz to 25 GHz



PAGE: 22 OF 35

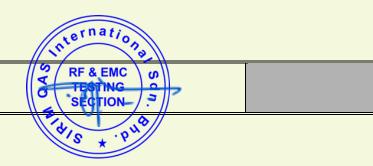
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# 3.4.5.1.3 High Channel (Data Rate: 1 Mbps)





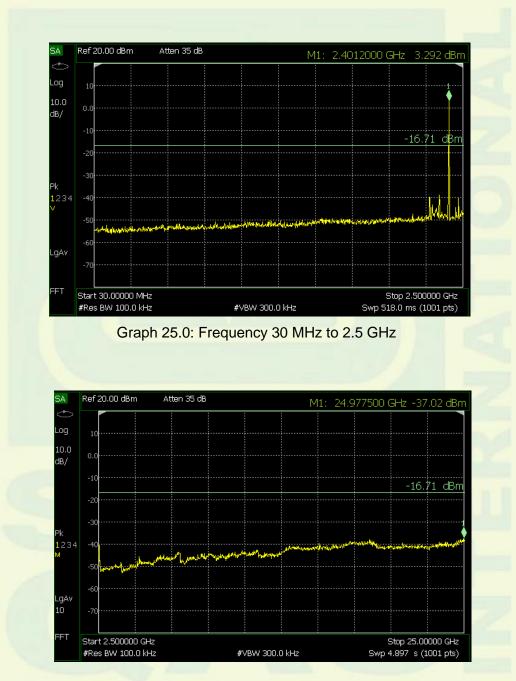
Graph 24.0: Frequency 2.5 GHz to 25 GHz



PAGE: 23 OF 35

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# 3.4.5.1.4 Low Channel (Data Rate: 2 Mbps)



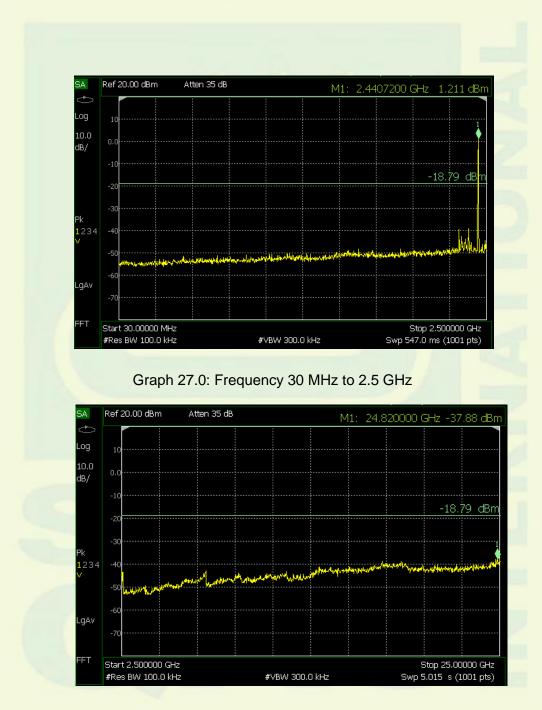
Graph 26.0: Frequency 2.5 GHz to 25 GHz



PAGE: 24 OF 35

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# 3.4.5.1.5 Middle Channel (Data Rate: 2 Mbps)



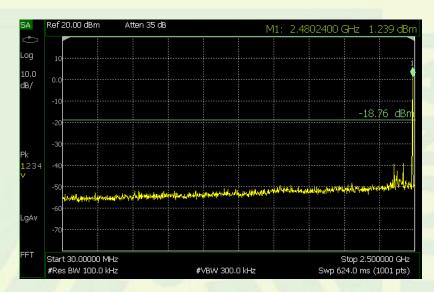
Graph 28.0: Frequency 2.5 GHz to 25 GHz



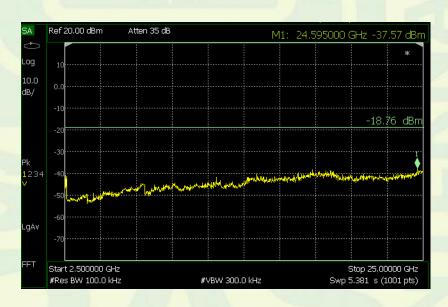
PAGE: 25 OF 35

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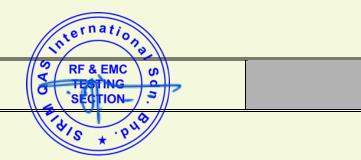
# 3.4.5.1.6 High Channel (Data Rate: 2 Mbps)



Graph 29.0: Frequency 30 MHz to 2.5 GHz



Graph 30.0: Frequency 2.5 GHz to 25 GHz

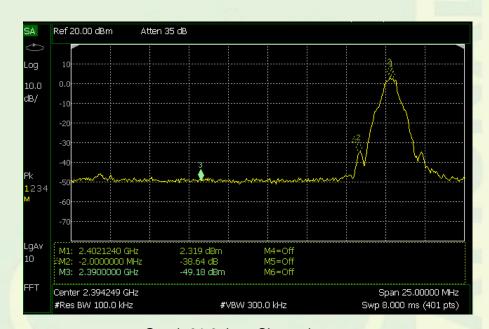


PAGE: 26 OF 35

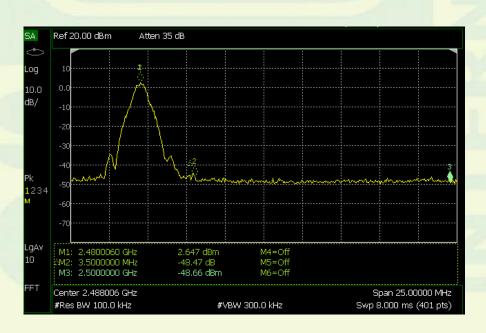
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### 3.4.5.2 Band Edge

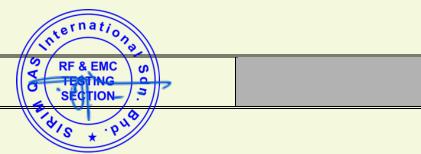
### 3.4.5.2.1 Data Rate: 1 Mbps



Graph 31.0: Low Channel



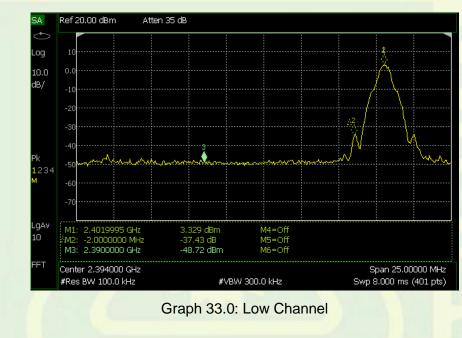
Graph 32.0: High Channel

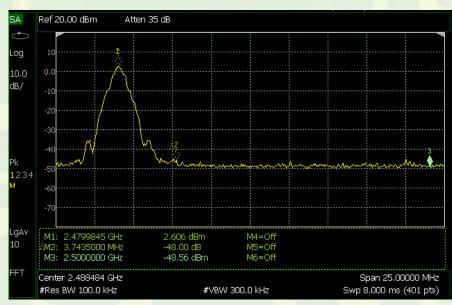


PAGE: 27 OF 35

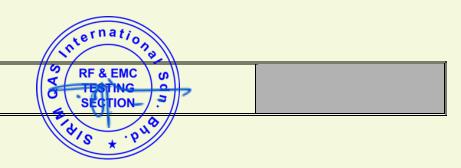
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# 3.4.5.2.2 Data Rate: 2 Mbps





Graph 34.0: High Channel



PAGE: 28 OF 35

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### 3.5 Radiated Spurious Emission / Radiated Band Edge

### 3.5.1 Test Setup

The measurement has been performed in semi-anechoic chamber in accordance with clause 6.6.4.3 of ANSI C63.10-2013 and test setup has been configured as shown in Figure 3.5.1-1 for measurement below 1 GHz meanwhile Figure 3.5.1-2 is configuration setup for measurement above 1 GHz.

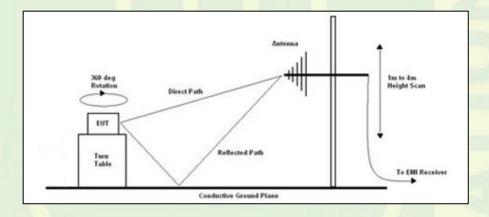


Figure 3.5.1-1: Configuration Test Setup for Radiated Spurious Emission Measurement for below 1 GHz

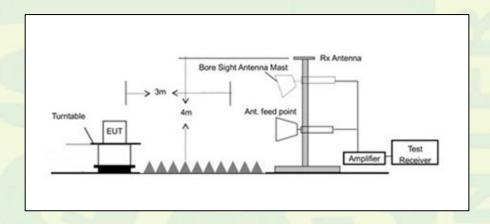


Figure 3.5.1-2: Configuration Test Setup for Radiated Spurious Emission Measurement for above 1 GHz



PAGE: 29 OF 35

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#### 3.5.2 Test Method

For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m and a bore sight antenna has been used.

The antenna was set at a distance 3m away from the EUT and the supporting equipment. The antenna height varied from 1m to 4m above the ground to determine the maximum value of the field strength.

The table was rotated 360° for both horizontal and vertical polarization. EUT has been rotated through three orthogonal axis in x-y-z orientation as in Figure 3.5.2 to determine the maximum emissions and only worst case orientation is recorded in the test report.

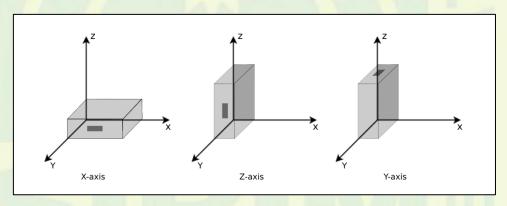


Figure 3.5.2: X-Y-Z axis position

At frequencies less than or equal to 1000 MHz, compliance testing shall use measurement instrumentation employing a CISPR quasi-peak detector. Meanwhile Above 1000 MHz, compliance testing shall address both the peak and average values of the measured emissions. Below is the setting of RBW and VBW for measuring receiver that has been used for average and peak detector measurement:

Frequency range	RBW	VBW
30 MHz to 1000 MHz	100 kHz	300 kHz
1GHz to 40 GHz	1 MHz	3 MHz

RF & EMC OF TESTING OF SECTION S

PAGE: 30 OF 35

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The following method has been executed to determine the Radiated Emission:

- i. The EUT is set to Low Channel and Low Data Rate (1 Mbps).
- ii. A pre-scan from 30 MHz to 1 GHz with PEAK detection mode is carried out.
- iii. Several highest frequencies for quasi-peak measurement were selected and compared with the quasi-peak limit line for measurement 30 MHz to 1 GHz.
- iv. Step (ii) above was repeated for frequency range of 1 GHz to 8 GHz, 8 GHz to 18 GHz and 18 GHz to 40 GHz.
- v. Several highest frequencies for peak measurement were selected and compared with the peak limit line as well as for average reading.
- vi. Steps above will be repeated for middle channel (low data rate), high channel (low data rate), low channel (high data rate), middle channel (high data rate) and high channel (high data rate).

#### 3.5.3 Test Limit

The Radiated Emission shall not exceed the value given in Table 3.5.3.

Table 3.5.3: Limit of Radiated Emission

Limit FCC Part 15.209 (a)						
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement distance (meter)				
0.009 - 0.490	2400/ F(kHz)	300				
0.490 - 1.705	24000/ F(kHz)	30				
1.705 – 30.0	30	30				
30 - 88	100	3				
88 - 216	150	3				
216 - 960	200	3				
Above 960	500	3				



PAGE: 31 OF 35

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#### 3.5.4 Test Result

### 3.5.4.1 Radiated Spurious Emissions

The maximum emissions were detected at y-axis.

### 3.5.4.1.1 Low Channel

Table 3.5.4.1.1: Test Result of Radiated Emission (Low Channel)

No	Channel	Channel Frequency		Result	Appendix	
1.		30 MHz to 1000 MHz		PASS	Appendix I	
2.		1 GHz - 8 GHz	1 Mbps	PASS	Appendix II	
3.	1 /	8 GHz – 18 GHz	1 Mphs	PASS	Appendix III	
4.	Low	18 GHz – 40 GHz	18 GHz – 40 GHz	PASS	Appendix IV	
5.	LOW	30 MHz to 1000 MHz		PASS	Appendix V	
6.		1 GHz - 8 GHz	2 Mbna	PASS	Appendix VI	
7.	8 GHz – 18 GHz		2 Mbps	PASS	Appendix VII	
8.		18 GHz – 40 GHz		PASS	Appendix VIII	



PAGE: 32 OF 35

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### 3.5.4.1.2 Middle Channel

Table 3.5.4.1.2: Test Result of Radiated Emission (Middle Channel)

No	Channel	annel Frequency		Result	Appendix
1.		30 MHz to 1000 MHz		PASS	Appendix VIIII
2.		1 GHz - 8 GHz	1 Mbps	PASS	Appendix X
3.		8 GHz – 18 GHz	1 Mbps	PASS	Appendix XI
4.	Middle	18 GHz – 40 GHz		PASS	Appendix XII
5.	Middle	30 MHz to 1000 MHz	AK	PASS	Appendix XIII
6.	1/-	1 GHz - 8 GHz	2 Mbps	PASS	Appendix XIV
7.	8 GHz – 18 GH		2 Mbps	PASS	Appendix XV
8.	H G	18 GHz – 40 GHz		PASS	Appendix XVI

# 3.5.4.1.3 High Channel

Table 3.5.4.1.3: Test Result of Radiated Emission (High Channel)

No	Channel	Frequency	Data Rate	Result	Appendix
1.		30 MHz to 1000 MHz		PASS	Appendix XVII
2.		1 GHz - 8 GHz	- 1 Mbps	PASS	Appendix XVIII
3.	1	8 GHz – 18 GHz		PASS	Appendix XIX
4.	18 GHz – 40 GHz  30 MHz to 1000 MHz	PASS	Appendix XX		
5.		PASS	Appendix XXI		
6.		1 GHz - 8 GHz	O. N. Albarra -	PASS	Appendix XXII
7.		8 GHz – 18 GHz	2 Mbps	PASS	Appendix XXIII
8.		18 GHz – 40 GHz		PASS	Appendix XXIV

RF & EMC OF TESTING OF SECTION S

PAGE: 33 OF 35

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# 3.5.4.2 Radiated Band Edge

Table 3.5.4.2: Test Result of Radiated Band Edge

Channel	Frequency (MHz)	Data Rate	Result	Appendix
Low	2402	1 Mbpa	PASS	Appendix XXV
High	2480	1 Mbps	PASS	Appendix XXVI
Low	2402	2 Mbpa	PASS	Appendix XXVII
High	2480	2 Mbps	PASS	Appendix XXVIII

Note:

If the maximized peak measured value complies with under the Average, then it is unnecessary to perform an Average measurement.



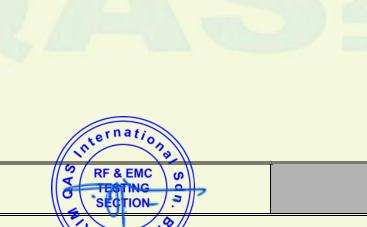


PAGE: 34 OF 35

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### 4.0 TEST INSTRUMENT

No	Equipment	Equipment Manufacturer Model		Serial No.	Calibration Due	
			JI.	THE RES		
1	Spectrum Analyzer	Agilent	E4440A	MY48250395	13.11.2023	
2	Handheld Spectrum Analyzer	Agilent	N9918B	MY59220 <mark>151</mark>	21.07.2023	
3	EMI Receiver System	Rohde & Schwarz	ESW8	101094	30.11.2023	
4	Trilog Broadband Antenna	Schwarzbeck	VULB 9163	9163-567	06.10.2023	
5	Horn Antenna	Schwarzbeck	BBHA 9120D	D221	15.07.2024	
6	Horn Antenna 40GB	A INFO	LB-180400-20- C-KF	J211060430	17.10.2023	
7	Pre-amplifier	A.H. Systems, inc	PAM-0207	264	-	
8	RF Cable	-		///-	7	



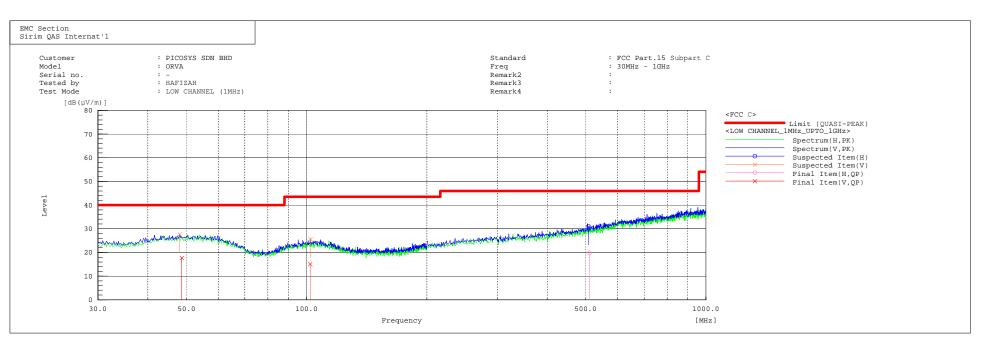
PAGE: 35 OF 35

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#### CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

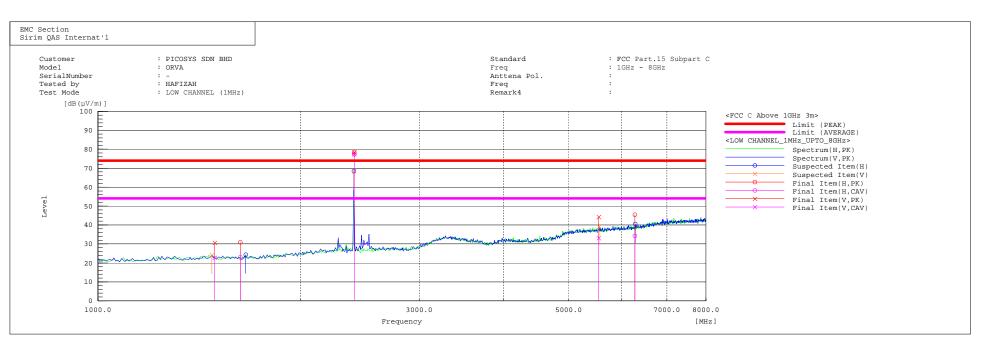
- A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS
  International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of
  the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced
  Product. Measurement uncertainty shall be included in the Test Report when there is no statement of conformity required. When a statement
  of conformity to a specification or standard is applied, the Simple Acceptance Rule is used. Unless otherwise stated, the Acceptance Rule
  with Guard Band is used.
- 2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
- 3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
- 4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
- 5. Customer (Applicant/Manufacture/Factory,etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, items and products.
- 6. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the customer (Applicant/Manufacture/Factory,etc.) may use SIRIM QAS International logo or word on the promotional materials and the Applicant shall only include the phrase, "A sample of this product has been tested by SIRIM QAS International ...(Test Report No) (dated) ...(for what test) ...(to which standard)" or such similar words which stress that only the sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures/flyers/official website). For avoidance of doubt, the statement shall not be used on the sample, packaging of the sample, items and products.
- 7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
- 8. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
  - a) Informing and placing a notice in the media;
  - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
  - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
  - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
  - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
- 9. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.
- 10. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
  - a) Changes in details of the Applicant name and/or address;
  - b) Changes in details of the Manufacturer's name and/or address;
  - c) Changes in details of the Factory location name and/or address;
  - d) Changes in details of the model and/or type designation
- 11. However, issuance of Supplementary Report due to the following reasons are FOC:
  - a) Misprints and typo errors;
  - b Missing technical information as agreed in PP1 form;
  - c) Test data not reported;
  - d) Mistake in reporting of test data
- 12. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.



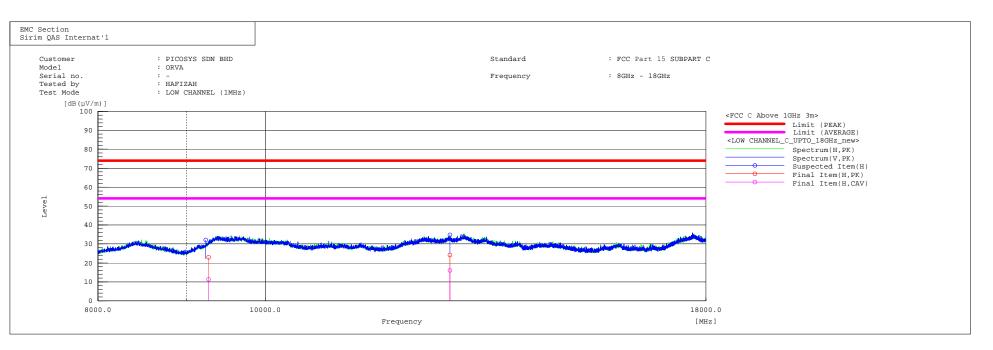


#### Final Result

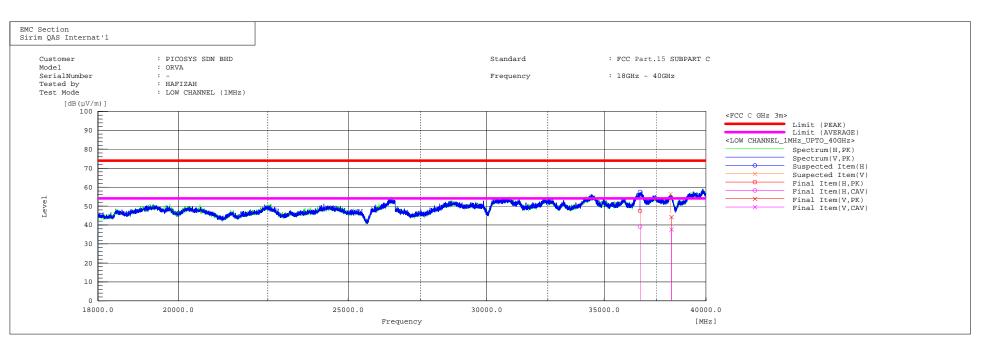
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1	48.610	V	2.4	15.3	17.7	40.0	22.3	115.0	262.5	
2	101.993	V	1.5	13.7	15.2	43.5	28.3	397.0	299.5	
3	511.248	H	0.4	19.5	19.9	46.0	26.1	250.5	96.0	



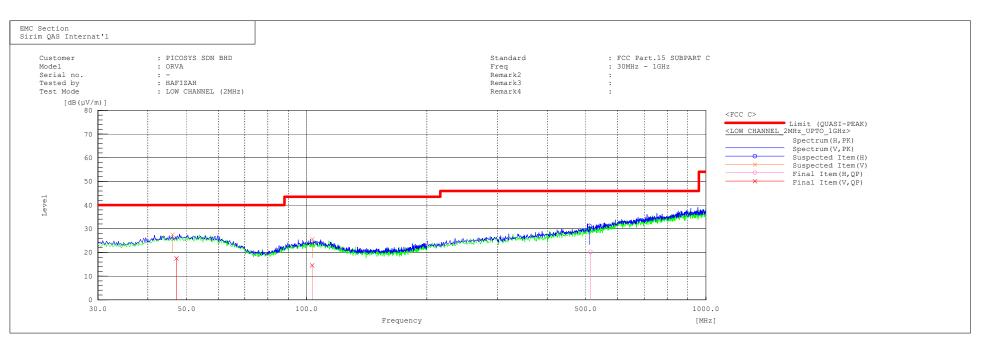
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1	2401.958	Н	71.8	70.8	6.5	78.3	77.3	74.0	54.0	-4.3	-23.3	100.0	105.0	
2	6276.531	H	23.8	12.6	21.7	45.5	34.3	74.0	54.0	28.5	19.7	100.0	272.5	
3	1628.070	Η	30.5	22.5	0.4	30.9	22.9	74.0	54.0	43.1	31.1	100.0	351.0	
4	2401.958	V	71.8	70.8	6.5	78.3	77.3	74.0	54.0	-4.3	-23.3	200.0	237.5	
5	5543.706	V	23.8	12.7	20.4	44.2	33.1	74.0	54.0	29.8	20.9	200.0	333.0	
6	1491.105	V	30.6	22.8	0.0	30.6	22.8	74.0	54.0	43.4	31.2	200.0	5.0	



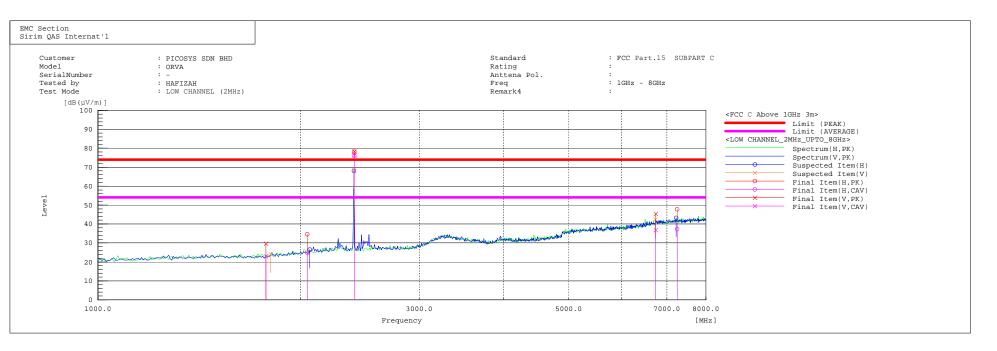
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	9274.800	Η	33.9	22.4	-11.0	22.9	11.4	74.0	54.0	51.1	42.6	100.0	87.5	
2	12791.400	H	33.9	25.9	-9.8	24.1	16.1	74.0	54.0	49.9	37.9	131.0	60.0	



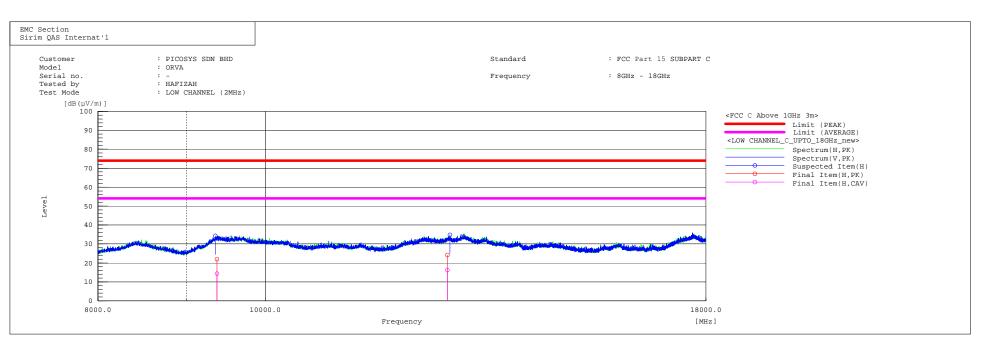
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	36676.900	H	23.4	15.1	24.1	47.5	39.2	74.0	54.0	26.5	14.8	100.0	5.0	
2	38230.980	V	22.1	15.6	22.1	44.2	37.7	74.0	54.0	29.8	16.3	100.0	272.5	



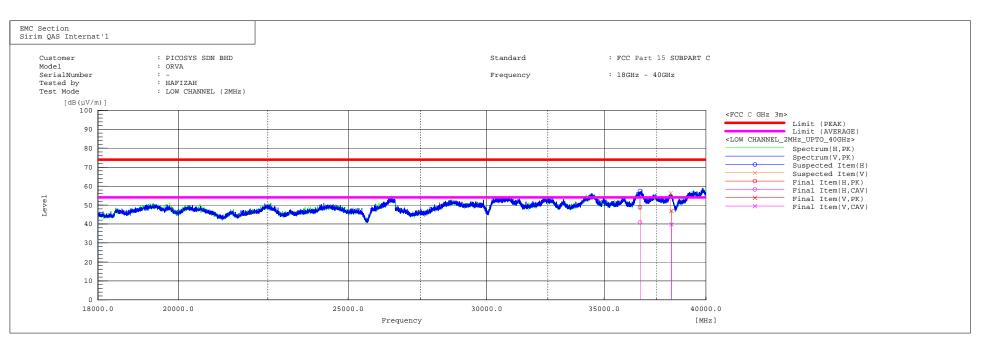
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	[dB(µV/m)]	[dB]	[cm]	[°]	
1	47.121	V	2.4	15.2	17.6	40.0	22.4	115.0	262.5	
2	103.212	V	0.9	13.7	14.6	43.5	28.9	397.0	299.5	
3	513.212	Н	0.8	19.5	20.3	46.0	25.7	250.5	96.0	



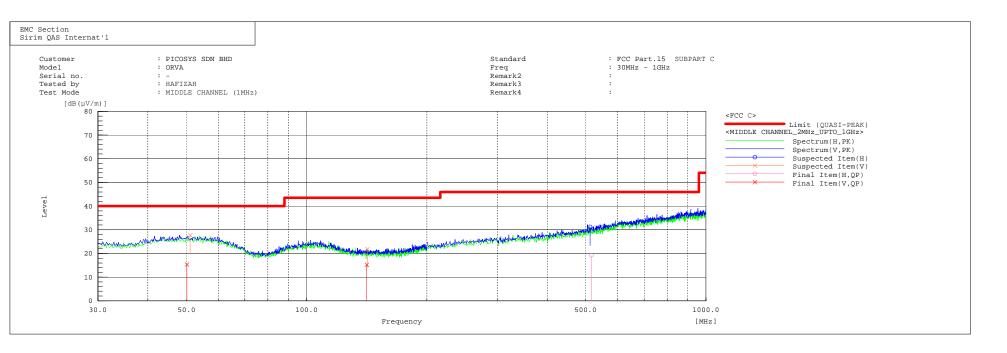
No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	[dB(µV/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	2045.818	Η	30.5	20.7	4.1	34.6	24.8	74.0	54.0	39.4	29.2	100.0	35.0	
2	2402.028	H	71.7	69.5	6.5	78.2	76.0	74.0	54.0	-4.2	-22.0	100.0	0.0	
3	7250.552	H	22.5	12.0	25.3	47.8	37.3	74.0	54.0	26.2	16.7	100.0	35.0	
4	2402.028	V	72.0	69.8	6.5	78.5	76.3	74.0	54.0	-4.5	-22.3	100.0	115.0	
5	6737.266	V	22.0	13.4	23.5	45.5	36.9	74.0	54.0	28.5	17.1	100.0	70.0	
6	1777.028	V	28.4	21.6	1.4	29.8	23.0	74.0	54.0	44.2	31.0	200.0	140.5	



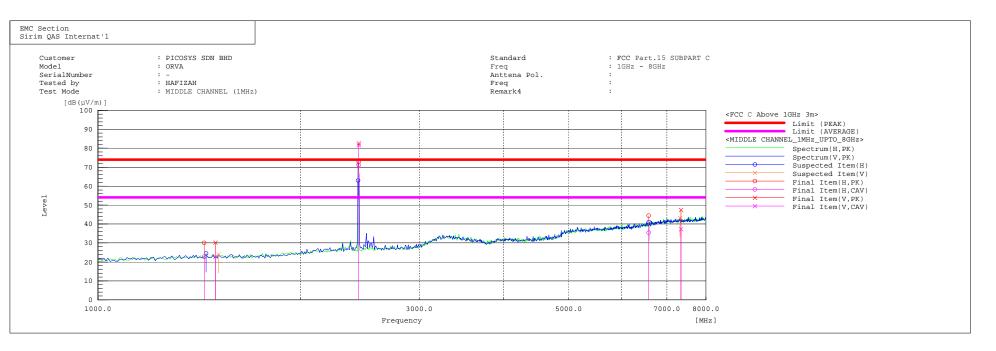
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		[dB(µV)]	$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	9374.800	H	31.2	23.7	-9.3	21.9	14.4	74.0	54.0	52.1	39.6	100.0	87.5	
2	12751.400	Η	33.9	25.9	-9.7	24.2	16.2	74.0	54.0	49.8	37.8	130.0	307.0	



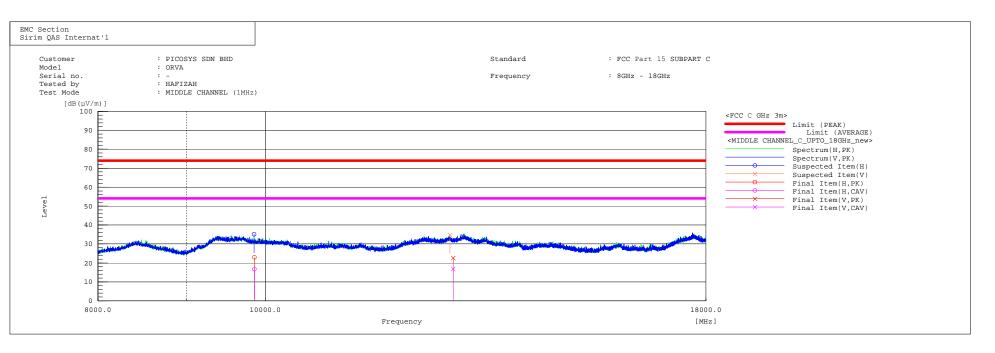
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[°]	
1	36676.900	H	24.8	16.8	24.1	48.9	40.9	74.0	54.0	25.1	13.1	151.0	125.0	
2	38230.980	V	24.8	17.8	22.1	46.9	39.9	74.0	54.0	27.1	14.1	112.0	183.5	



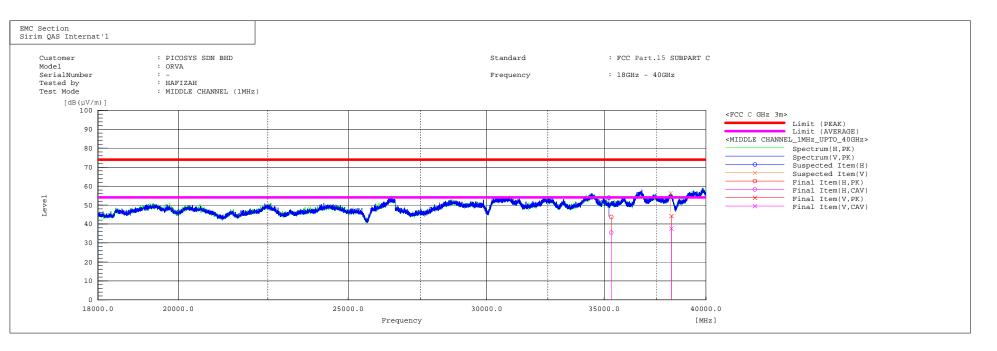
No.	Frequency	(P)	Reading	c.f	Result	Limit	Margin	Height	Angle	Remark
			QP		QP	QP	QP			
	[MHz]		$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[ ° ]	
1	50.123	V	0.1	15.3	15.4	40.0	24.6	115.0	262.5	
2	141.512	V	5.4	9.9	15.3	43.5	28.2	397.0	299.5	
3	516.179	Н	-0.4	19.6	19.2	46.0	26.8	250.5	96.0	



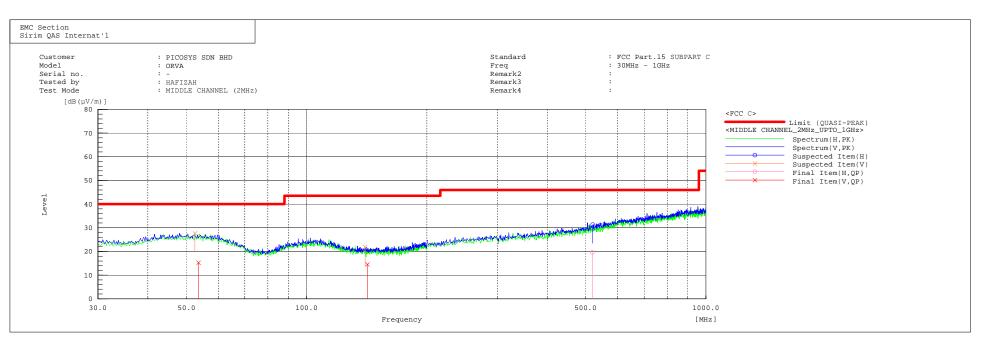
No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	CAV	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	[dB(µV/m)]	[dB(µV/m)]	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	2439.825	Η	66.3	64.4	6.7	73.0	71.1	74.0	54.0	1.0	-17.1	200.0	255.0	
2	6579.287	Η	21.5	12.6	22.9	44.4	35.5	74.0	54.0	29.6	18.5	100.0	115.0	
3	1437.720	H	30.4	23.2	-0.4	30.0	22.8	74.0	54.0	44.0	31.2	200.0	350.0	
4	2439.965	V	75.9	74.8	6.7	82.6	81.5	74.0	54.0	-8.6	-27.5	100.0	27.0	
5	7347.364	V	22.0	11.8	25.5	47.5	37.3	74.0	54.0	26.5	16.7	200.0	122.5	
6	1494.007	V	30.3	22.8	0.0	30.3	22.8	74.0	54.0	43.7	31.2	100.0	1.5	



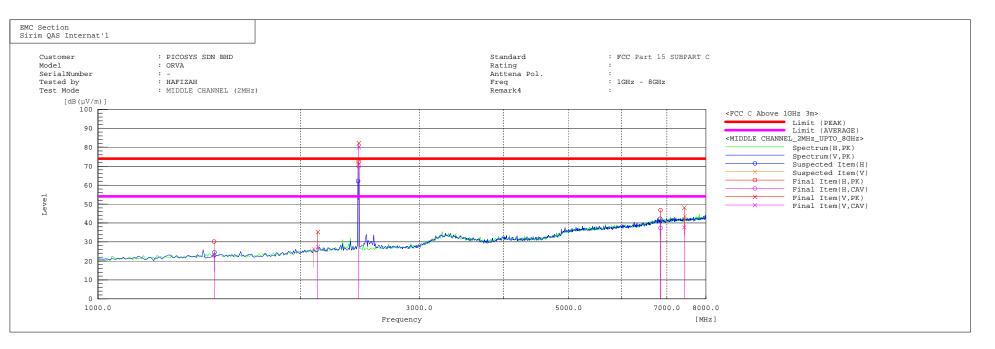
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		[dB(µV)]	$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[°]	
1	9857.145	Η	31.7	25.6	-8.8	22.9	16.8	74.0	54.0	51.1	37.2	100.0	85.5	
2	12849.521	V	32.5	26.7	-9.8	22.7	16.9	74.0	54.0	51.3	37.1	130.0	217.0	



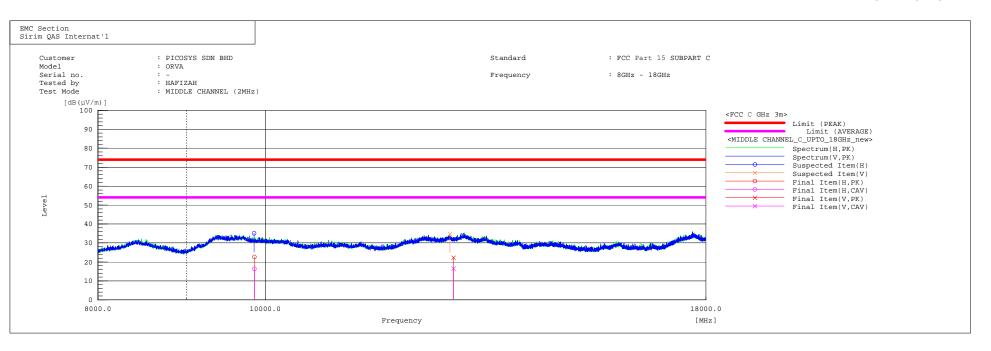
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	35316.208	H	23.4	15.1	20.3	43.7	35.4	74.0	54.0	30.3	18.6	100.0	5.0	
2	38230.980	V	22.1	15.6	22.1	44.2	37.7	74.0	54.0	29.8	16.3	100.0	272.5	



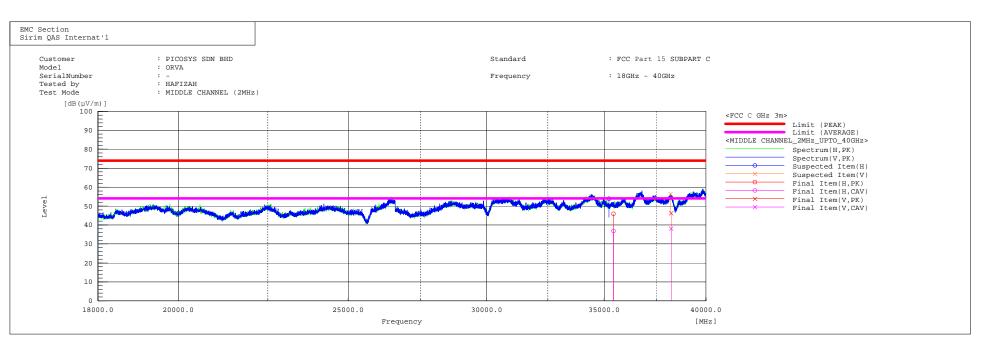
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[cm]	[°]	
1	53.512	V	0.1	15.2	15.3	40.0	24.7	115.0	262.5	
2	141.785	V	4.7	9.9	14.6	43.5	28.9	397.0	299.5	
3	519.365	H	0.0	19.6	19.6	46.0	26.4	250.5	96.0	



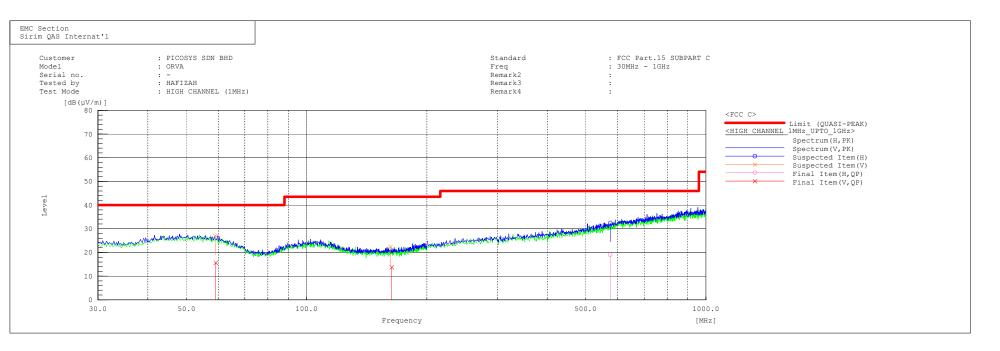
No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB]	[dB]	[cm]	[°]	
1	2439.965	Η	65.5	63.2	6.7	72.2	69.9	74.0	54.0	1.8	-15.9	200.0	228.0	
2	6851.706	Η	22.8	13.4	24.0	46.8	37.4	74.0	54.0	27.2	16.6	200.0	1.0	
3	1487.552	Η	30.4	22.9	-0.1	30.3	22.8	74.0	54.0	43.7	31.2	200.0	105.5	
4	2439.965	V	75.6	73.4	6.7	82.3	80.1	74.0	54.0	-8.3	-26.1	100.0	105.0	
5	7429.301	V	22.5	12.1	25.7	48.2	37.8	74.0	54.0	25.8	16.2	100.0	227.5	
6	2119.832	V	30.5	22.7	4.8	35.3	27.5	74.0	54.0	38.7	26.5	100.0	192.5	



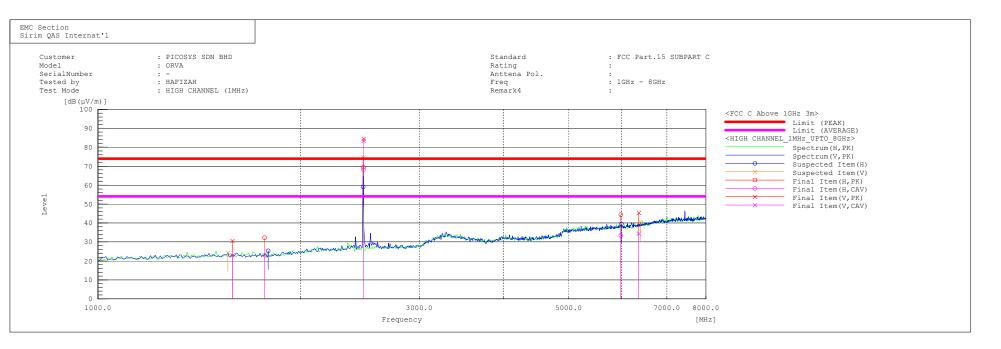
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	9854.822	H	31.5	25.2	-8.8	22.7	16.4	74.0	54.0	51.3	37.6	100.0	87.5	
2	12851.110	V	32.1	26.3	-9.8	22.3	16.5	74.0	54.0	51.7	37.5	130.0	307.0	



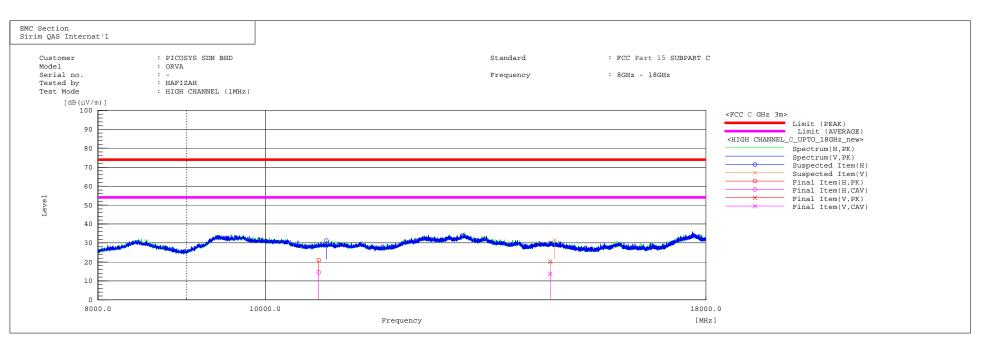
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		[dB(µV)]	$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	35421.408	H	25.4	16.3	20.5	45.9	36.8	74.0	54.0	28.1	17.2	130.0	30.0	
2	38211.120	V	24.1	16.1	22.1	46.2	38.2	74.0	54.0	27.8	15.8	123.0	210.5	



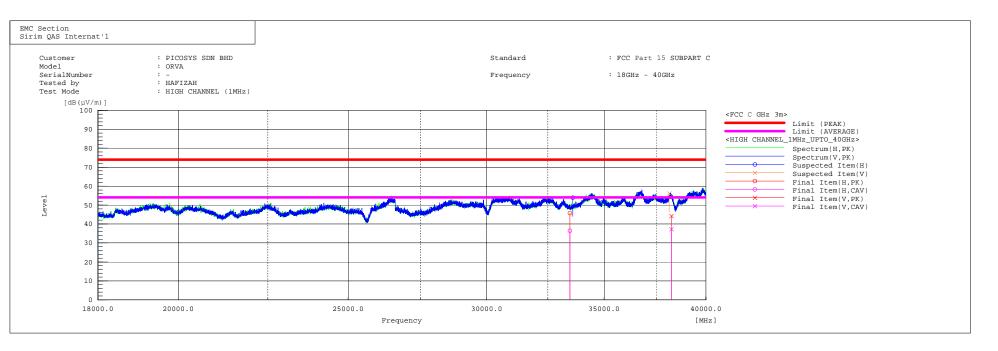
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	[dB(µV/m)]	[dB]	[cm]	[°]	
1	59.123	V	1.1	14.6	15.7	40.0	24.3	115.0	262.5	
2	163.213	V	3.3	10.5	13.8	43.5	29.7	397.0	299.5	
3	576.181	Н	-1.7	20.8	19.1	46.0	26.9	250.5	96.0	



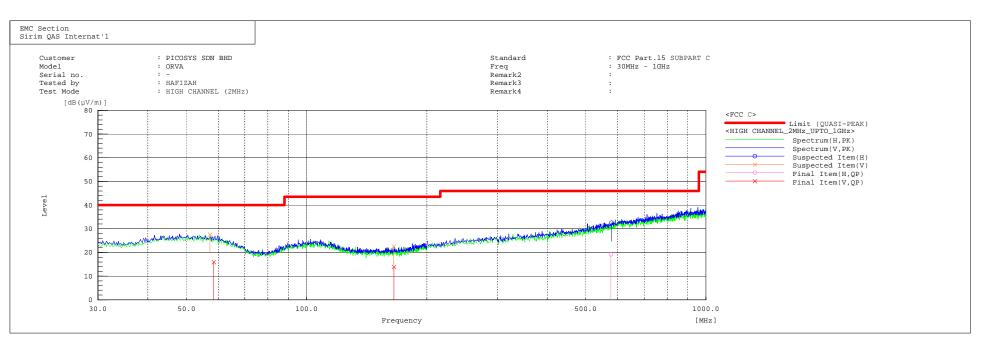
No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Result CAV	Limit PK	Limit AV	Margin PK	Margin CAV	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB(µV/m)]	[dB]	[dB]	[cm]	[°]	
1	2480.007	Н	62.4	61.2	7.0	69.4	68.2	74.0	54.0	4.6	-14.2	100.0	297.5	
2	5976.664	H	23.4	12.3	21.1	44.5	33.4	74.0	54.0	29.5	20.6	200.0	44.0	
3	1768.552	H	30.9	21.6	1.4	32.3	23.0	74.0	54.0	41.7	31.0	100.0	9.0	
4	2480.007	V	77.4	76.4	7.0	84.4	83.4	74.0	54.0	-10.4	-29.4	100.0	359.5	
5	6356.923	V	23.4	12.4	22.0	45.4	34.4	74.0	54.0	28.6	19.6	100.0	149.5	
6	1583.007	V	30.3	22.7	0.3	30.6	23.0	74.0	54.0	43.4	31.0	200.0	175.0	



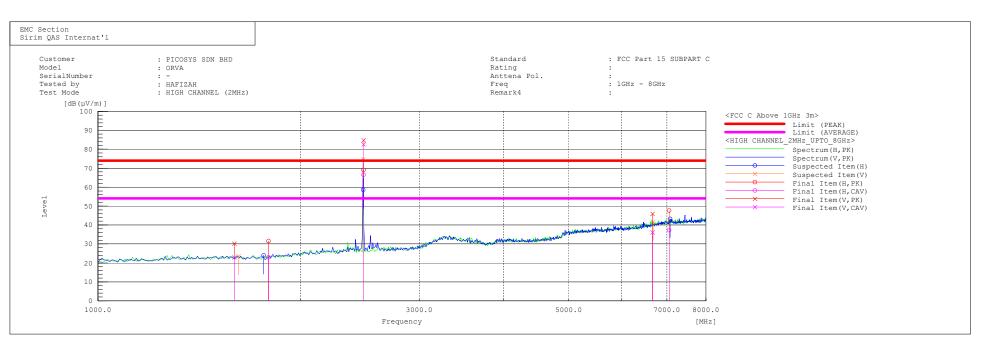
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		[dB(µV)]	$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	10739.256	Η	33.5	27.1	-12.6	20.9	14.5	74.0	54.0	53.1	39.5	110.0	90.5	
2	14622.150	V	32.9	26.6	-12.7	20.2	13.9	74.0	54.0	53.8	40.1	110.0	300.0	



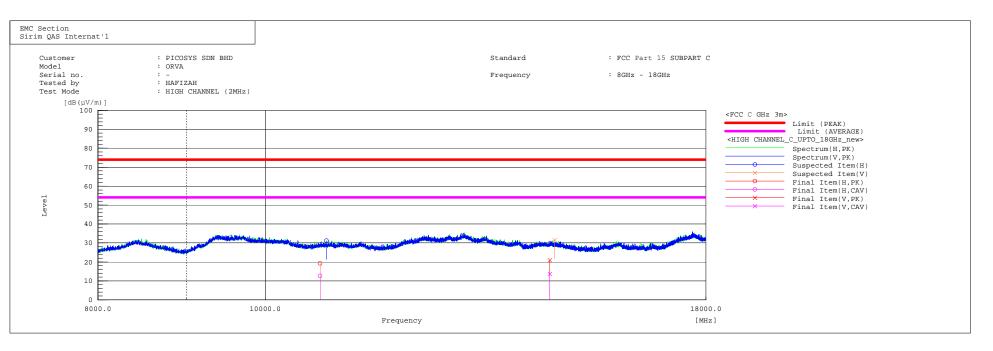
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	33451.210	H	25.4	16.1	20.4	45.8	36.5	74.0	54.0	28.2	17.5	114.0	25.0	
2	38221.240	V	22.1	15.2	22.1	44.2	37.3	74.0	54.0	29.8	16.7	109.0	271.7	



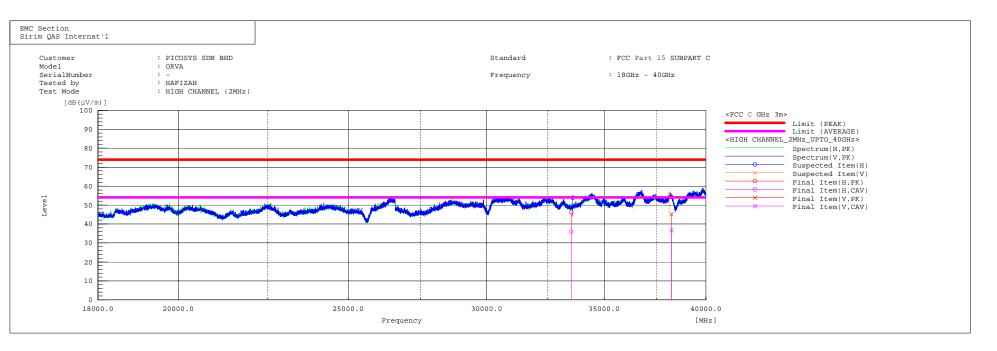
No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	Margin QP	Height	Angle	Remark
	[MHz]		[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	[dB(µV/m)]	[dB]	[cm]	[ • ]	
1	58.543	V	1.1	14.8	15.9	40.0	24.1	115.0	262.5	
2	165.512	V	3.3	10.6	13.9	43.5	29.6	397.0	299.5	
3	577.612	H	-1.7	20.9	19.2	46.0	26.8	250.5	96.0	



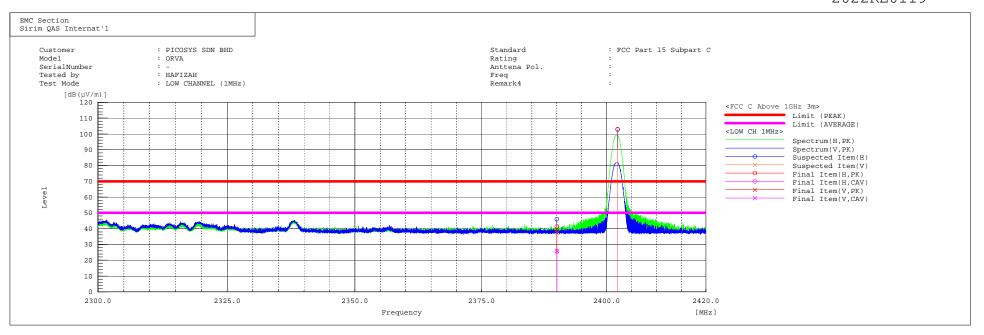
No.	Frequency	(P)	Reading PK [dB(uV)]	Reading CAV [dB(µV)]	c.f	Result PK [dB(µV/m)]	Result CAV [dB(µV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(µV/m)]	Margin PK [dB]	Margin CAV [dB]	Height [cm]	Angle	Remark
1	2480.007	Н	62.0	59.6	7.0	69.0	66.6	74.0	54.0	5.0	-12.6	100.0	62.5	
2	7053.902	Н	22.8	12.6	24.8	47.6	37.4	74.0	54.0	26.4	16.6	100.0	35.0	
3	1791.881	Н	30.1	21.5	1.5	31.6	23.0	74.0	54.0	42.4	31.0	200.0	79.5	
4	2480.007	V	77.8	75.5	7.0	84.8	82.5	74.0	54.0	-10.8	-28.5	100.0	325.0	
5	6661.056	V	22.7	12.9	23.2	45.9	36.1	74.0	54.0	28.1	17.9	100.0	80.0	
6	1593.343	V	30.0	22.6	0.3	30.3	22.9	74.0	54.0	43.7	31.1	200.0	290.0	



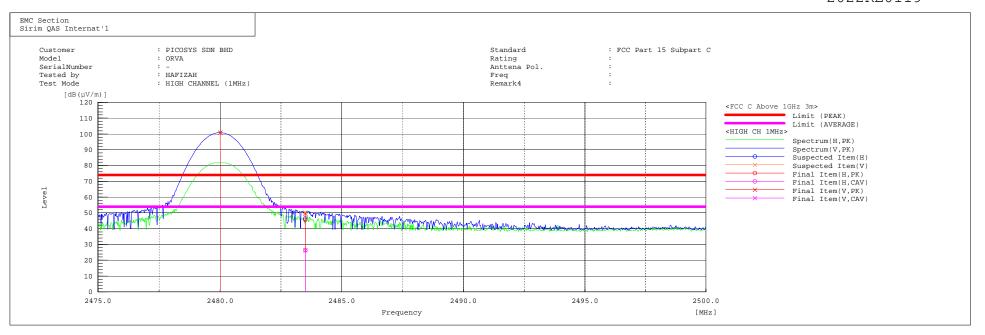
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	10759.120	H	31.9	25.2	-12.6	19.3	12.6	74.0	54.0	54.7	41.4	100.0	87.5	
2	14613.110	V	33.7	26.3	-12.7	21.0	13.6	74.0	54.0	53.0	40.4	130.0	307.0	



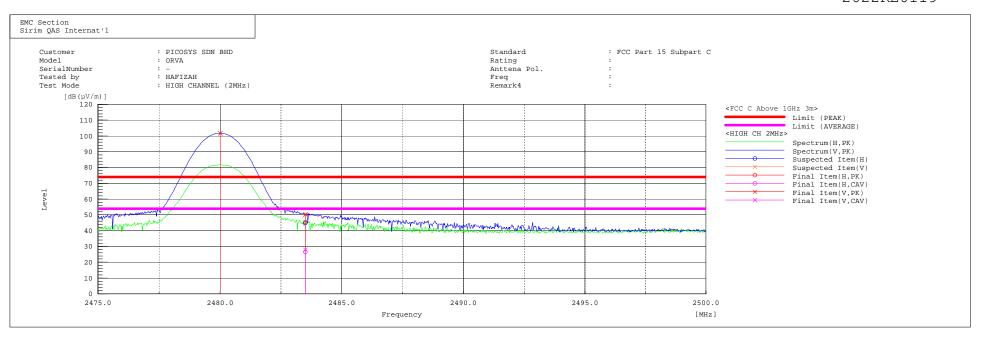
No.	Frequency	(P)	Reading	Reading	c.f	Result	Result	Limit	Limit	Margin	Margin	Height	Angle	Remark
			PK	CAV		PK	CAV	PK	AV	PK	CAV			
	[MHz]		$[dB(\mu V)]$	$[dB(\mu V)]$	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	[cm]	[ ° ]	
1	33519.140	H	25.7	15.4	20.5	46.2	35.9	74.0	54.0	27.8	18.1	119.0	111.0	
2	38221.240	V	23.1	14.7	22.1	45.2	36.8	74.0	54.0	28.8	17.2	119.0	201.7	



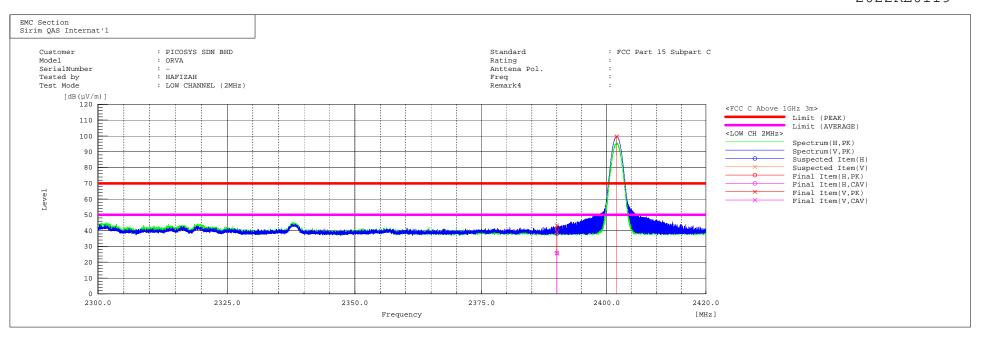
No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Limit PK	Limit AV	Margin PK	Margin CAV	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	
1	2402.165	H	96.5		6.5	103.0	70.0	50.0	-33.0		
2	2390.000	H	34.9	19.1	6.5	41.4	70.0	50.0	28.6	24.4	
3	2390.000	V	33.2	19.4	6.5	39.7	70.0	50.0	30.3	24.1	



No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Limit PK	Limit AV	Margin PK	Margin CAV	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	
1	2480.000	V	93.9		7.0	100.9	74.0	54.0	-26.9		
2	2483.500	V	42.3	19.2	7.1	49.4	74.0	54.0	24.6	27.7	
3	2483.500	H	38.5	19.2	7.1	45.6	74.0	54.0	28.4	27.7	



No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Limit PK	Limit AV	Margin PK	Margin CAV	Remark
	[MHz]		$[dB(\mu V)]$	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	
1	2480.000	V	94.8		7.0	101.8	74.0	54.0	-27.8		
2	2483.500	V	43.3	20.9	7.1	50.4	74.0	54.0	23.6	26.0	
3	2483.500	H	38.2	19.5	7.1	45.3	74.0	54.0	28.7	27.4	



No.	Frequency	(P)	Reading PK	Reading CAV	c.f	Result PK	Limit PK	Limit AV	Margin PK	Margin CAV	Remark
	[MHz]		[dB(µV)]	[dB(µV)]	[dB(1/m)]	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	$[dB(\mu V/m)]$	[dB]	[dB]	
1	2402.000	V	93.3		6.5	99.8	70.0	50.0	-29.8		
2	2390.000	V	36.9	19.3	6.5	43.4	70.0	50.0	26.6	24.2	
3	2390.000	Н	34.3	19.4	6.5	40.8	70.0	50.0	29.2	24.1	