TEST REPORT

FCC Part 15 Subpart C

 \boxtimes New Application; \square Class I PC; \square Class II PC

Product :	10 inch Android Panel PC (SoC)
Brand:	ProDVX
Model:	APPC-10SLB
Model Difference:	N/A
FCC ID:	2AR42APPC10SLB
FCC Rule Part:	§15.247, Cat: DSS
Applicant:	ProDVX Europe B.V.
Address:	Europalaan 12F, 5232 BC Den Bosch, The Netherlands

Test Performed by: International Standards Laboratory Corp.

<LT Lab.> *Site Registration No. BSMI: SL2-IN-E-0013; MRA TW0997; TAF: 0997; IC: IC4067B-4; *Address: No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan *Tel : 886-3-407-1718; Fax: 886-3-407-1738 Report No.: **ISL-18LR345FCDSS** Issue Date : **2018/12/18**



Test results given in this report apply only to the specific sample(s) tested and are traceable to national or international standard through calibration of the equipment and evaluating measurement uncertainty herein.

This report MUST not be used to claim product endorsement by TAF, NVLAP or any agency of the Government.

This test report shall not be reproduced except in full, without the written approval of International Standards Laboratory Corp.



VERIFICATION OF COMPLIANCE

Applicant:	ProDVX Europe B.V.
Product Description:	10 inch Android Panel PC (SoC)
Brand Name:	ProDVX
Model No.:	APPC-10SLB
Model Difference:	N/A
FCC ID:	2AR42APPC10SLB
Date of test:	2018/11/02 ~ 2018/12/13
Date of EUT Received:	2018/11/02

We hereby certify that:

All the tests in this report have been performed and recorded in accordance with the standards described above and performed by an independent electromagnetic compatibility consultant, International Standards Laboratory Corp..

The test results contained in this report accurately represent the measurements of the characteristics and the energy generated by sample equipment under test at the time of the test. The sample equipment tested as described in this report is in compliance with the limits of above standards.

Test By:	Barry Lee	Date:	2018/12/18
Prepared By:	Barry Lee / Senior Engineer Gigi Jeh	Date:	2018/12/18
Approved By:	Gigi Yeh / Senior Engineer	Date:	2018/12/18

Dino Chen / Senior Engineer



Version

Version No.	Date	Description
00	2018/12/18	Initial creation of document



Description Of Test	Uncertainty
Conducted Emission (AC power line)	2.586 dB
Field Strength of Spurious Radiation	≤30MHz: 2.96dB 30-1GHz: 4.22 dB 1-40 GHz: 4.08 dB
Conducted Power	2.412 GHz: 1.30 dB 5.805 GHz: 1.55 dB
Power Density	2.412 GHz:1.30 dB 5.805 GHz: 1.67 dB
Frequency	0.0032%
Time	0.01%
DC Voltage	1%



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1. General Information

1.1. Product Description

General:

Product Name	10 inch Android Panel PC (SoC)		
Brand Name	ProDVX		
Model Name	APPC-10SLB		
Model Difference	N/A		
USB port	One provided		
Micro USB	One provided		
SD	One provided		
HDMI	One provided		
3.5 Jack in	One provided		
	12Vdc from AC/DC adapter		
Power Supply	1. Model : 2ABL024F US Supplier: CWT2. Model : SOY-1200200, Supplier: Shenzhen SOY Technology Co., Ltd.3. Model : ZZU1588-200120 Supplier: JUNCTION GLOBAL TECHNOLOGY Co., LTD.		

Bluetooth:

Frequency Range:	2402 – 2480MHz		
Bluetooth Version:	Bluetooth Version: V2.1 + EDR		
Channel number:	79 channels	40 channels, 2MHz step	
Modulation type	GFSK +π / 4DQPSK + 8DPSK	Wide band Modulation (GFSK)	
Tune up power:	0.52 dBm Peak, +/- 1 dB	1.4 dBm (Peak), +/- 1 dB	
Dwell Time:	≤0.4s	N/A	
Antenna Designation:	PCB Antenna Antenna 1 Gain: 2.42 dBi (Max) Antenna 2 Gain: 1.61 dBi		

This report applies for BT V2.1 + EDR

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.





1.2. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID:** <u>2AR42APPC10SLB</u> filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

1.3. Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.10: 2013. Radiated testing was performed at an antenna to EUT distance 3 meters.

KDB Document: 558074 D01 15.247 Meas Guidance v0.5r01.

1.4. Test Facility

The measurement facilities used to collect the 3m Radiated Emission and AC power line conducted data are located on the address of International Standards Laboratory Corp. <LT Lab.> No. 120, Lane 180, Hsin Ho Rd., Lung-Tan Dist., Tao Yuan City 325, Taiwan which are constructed and calibrated to meet the FCC requirements in documents . FCC Registration Number is: 487532; Designation Number is: TW0997, Canada Registration Number: 4067B-4.

1.5. Special Accessories

Not available for this EUT intended for grant.

1.6. Equipment Modifications

Not available for this EUT intended for grant.



2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The EUT (Transmitter) was tested with a test program to fix the TX/RX frequency that was for the purpose of the measurements. For more information please see test data and APPENDIX 1 for set-up photographs.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 6 of ANSI C63.10: 2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR 16-1-1 Quasi-Peak and Average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m/1.5m (Frequency above 1GHz) above ground plane. The turn table shall rotate 360 degrees to determine the position of maxi-mum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter(EUT) was rotated through three orthogonal axes according to the requirements in Section 6 and 11 of ANSI C63.10: 2013.



2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed channel)

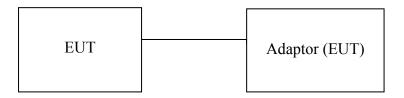


Table 1 Equipment Used in Tested System

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1	N/A					



3. Summary of Test Results

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power line Conducted Emission	Compliant
§15.247(b)(1)	Peak Output Power	Compliant
§15.247(d)	100 kHz Bandwidth Of Frequency Band Edges	Compliant
§15.247(c)	Spurious Emission	Compliant
§15.247(a)(1)	Frequency Separation	Compliant
§15.247(a)(1)(iii)	Number of hopping frequency	Compliant
§15.247(a)(1)(ii)	Time of Occupancy	Compliant
§15.247(a)(1)	20dB Bandwidth	Compliant
§15.203, §15.247(c)	Antenna Requirement	Compliant

4. Description of Test Modes

Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Channel low (2402MHz), mid (2441MHz) and high (2480MHz) with each modulation were chosen for full testing.

The worst case BDR mode was reported for Radiated Emission.



5. Conduced Emission Test

5.1 Standard Applicable:

According to §15.207 and RSS-Gen §8.8, frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

Eraquanay ranga	Limits dB(uV)					
Frequency range	u	D(uv)				
MHz	Quasi-peak	Average				
0.15 to 0.50	66 to 56	56 to 46				
0.50 to 5	56	46				
5 to 30	60	50				
Note						
1. The lower limit shall apply at the transition frequencies						
2. The limit decreases linearly with t	he logarithm of the frequency in the	e range 0.15 MHz to 0.50 MHz.				

5.2 Measurement Equipment Used:

	Conducted Emission Test Site									
Equipment	MFR	Model	Serial	Last	Cal Due.					
Туре		Number	Number	Cal.						
Conduction 04-3	WOKEN	CFD 300-NL	Conduction 04	08/30/2018	08/29/2019					
Cable			-3							
EMI Receiver 16	Rohde &	ESCI	101221	11/17/2018	11/16/2019					
	Schwarz									
LISN 18	ROHDE &	ENV216	101424	02/04/2018	02/03/2019					
	SCHWARZ									
LISN 19	ROHDE &	ENV216	101425	03/06/2018	03/05/2019					
	SCHWARZ									
Trat Cathering	Dama d	EZEMC	EZEMC DI/A							
Test Software	Farad	Ver:ISL-03A2	N/A	N/A	N/A					

5.3 EUT Setup:

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10-2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.



5.4 Measurement Procedure:

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

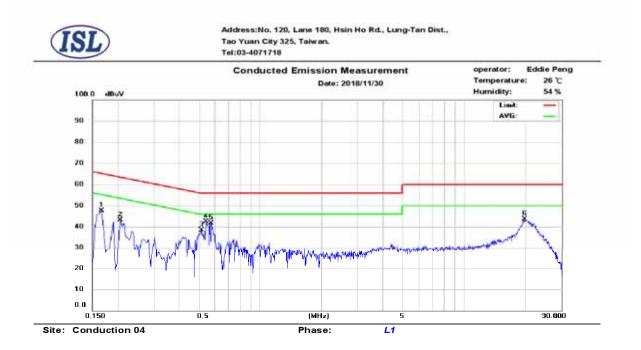
5.5 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.



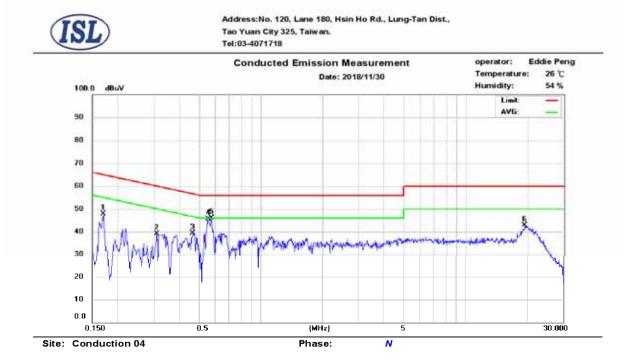
AC POWER LINE CONDUCTED EMISSION TEST DATA

Operation Mode:	Normal Operation	Test Date:	2018/11/30
Test By:	Barry		



No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.166	36.76	22.67	9.70	46.46	65.16	-18.70	32.37	55.16	-22.79
2	0.206	31.20	19.44	9.69	40.89	63.37	-22.48	29.13	53.37	-24.24
3	0.514	27.33	19.07	9.71	37.04	56.00	-18.96	28.78	46.00	-17.22
4	0.542	30.86	21.75	9.71	40.57	56.00	-15.43	31.46	46.00	-14.54
5	0.574	30.60	22.12	9.71	40.31	56.00	-15.69	31.83	46.00	-14.17
6	19.674	29.59	24.12	10.06	39.65	60.00	-20.35	34.18	50.00	-15.82





-15 of 74-

No.	Frequency (MHz)	QP_R (dBuV)	AVG_R (dBuV)	Correct Factor (dB)	QP Emission (dBuV)	QP Limit (dBuV)	QP Margin (dB)	AVG Emission (dBuV)	AVG Limit (dBuV)	AVG Margin (dB)
1	0.170	35.00	17.63	9.70	44.70	64.96	-20.26	27.33	54.96	-27.63
2	0.310	26.67	17.90	9.70	36.37	59.97	-23.60	27.60	49.97	-22.37
3	0.462	27.15	17.82	9.71	36.86	56.66	-19.80	27.53	46.66	-19.13
4	0.554	34.89	26.46	9.71	44.60	56.00	-11.40	36.17	46.00	-9.83
5	0.574	32.92	22.35	9.71	42.63	56.00	-13.37	32.06	46.00	-13.94
6	19.334	28.11	22.46	10.19	38.30	60.00	-21.70	32.65	50.00	-17.35



6. Peak Output Power Measurement

6.1 Standard Applicable:

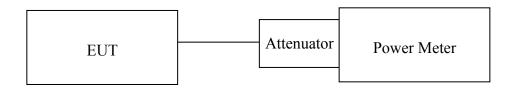
According to §15.247(b)(1), For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 hopping channels, and all frequency hopping systems in the 5725-5850MHz band: 1Watt. For all other frequency hopping systems in the 2400 – 2483.5MHz band: 0.125 Watts.

Conducted Emission Test Site									
Equipment	MFR	Model	Serial	Last	Cal Due.				
Туре		Number	Number	Cal.					
Power Meter 05	Anritsu	ML2495A	1116010	10/28/2018	10/27/2019				
Power Sensor 05	Anritsu	MA2411B	34NKF50	10/28/2018	10/27/2019				
Power Sensor 06	DARE	RPR3006W	13I00030SN O33	12/12/2018	12/11/2019				
Power Sensor 07	DARE	RPR3006W	13I00030SN O34	12/12/2018	12/11/2019				
Temperature Chamber	KSON	THS-B4H100	2287	12/02/2018	12/01/2019				
DC Power supply	ABM	8185D	N/A	11/16/2018	11/15/2019				
AC Power supply	EXTECH	CFC105W	NA	12/25/2017	12/24/2018				
Attenuator	Woken	Watt-65m3502	11051601	NA	NA				
Splitter	MCLI	PS4-199	12465	12/26/2017	12/25/2019				
Spectrum analyzer	keysight	N9010A	MY56070257	10/15/2018	10/14/2019				
Spectrum analyzer	R&S	FSP40	100116	11/02/2018	11/01/2019				
Test Sofware	DARE	Radimation Ver:2013.1.23	NA	NA	NA				

6.2 Measurement Equipment Used:



6.3 Test Set-up:



6.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter
- 3. Record the max. reading.
- 4. Repeat above procedures until all frequency measured were complete.



6.5 Measurement Result:

BDR Mode

Frequency (MHz)	Peak Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
Low	0.18	0.00	0.18	0.00104	1
Mid	0.52	0.00	0.52	0.00113	1
High	-0.19	0.00	-0.19	0.00096	1

EDR 2M Mode

Frequency (MHz)	Peak Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
Low	-4.27	0.00	-4.27	0.00037	0.125
Mid	-3.79	0.00	-3.79	0.00042	0.125
High	-4.27	0.00	-4.27	0.00037	0.125

EDR 3M Mode

Frequency (MHz)	Peak Reading Power (dBm)	Cable Loss	Output Power (dBm)	Output Power (W)	Limit (W)
Low	-3.45	0.00	-3.45	0.00045	0.125
Mid	-2.66	0.00	-2.66	0.00054	0.125
High	-3.01	0.00	-3.01	0.00050	0.125

Offset: 1dB



7. 100kHz Bandwidth of Band Edges Measurement

7.1 Standard Applicable:

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a).



7.2 Measurement Equipment Used:

7.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

7.2.2. Radiated emission:

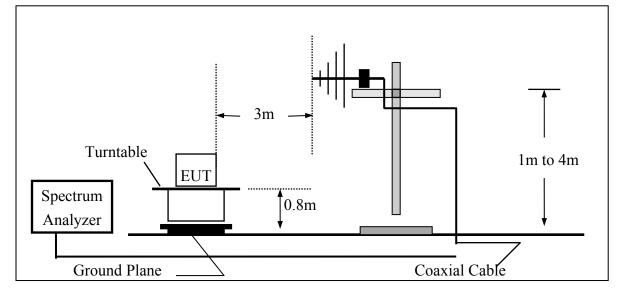
	Ch	amber 19(966))		
Equipment	MFR	Model	Serial	Last	Cal Due.
Туре		Number	Number	Cal.	
966 Chamber	Chance Most	Chamber 19	N/A	08/13/2018	08/12/2019
Spectrum Analyzer 21(3Hz-44GHz)	Agilent	N9030A	MY51360021	11/18/2018	11/17/2019
EMI Receiver	SCHWARZBECK	FCVU1534	1534149	12/06/2017	12/05/2019
Loop Antenna(9K-30M)	EM	EM-6879	271	06/06/2018	06/05/2020
Bilog Antenna (30M-1G)	SCHWARZBECK	VULB9168 w 5dB Att	736	10/30/2018	10/29/2019
Horn antenna (1G-18G)	SCHWARZBECK	9120D	9120D-1627	11/27/2017	11/26/2019
Horn antenna (18G-26G)	Com-power	AH-826	081001	11/21/2017	11/20/2019
Horn antenna (26G-40G)	Com-power	AH-640	100A	02/22/2017	02/21/2019
Preamplifier (9k-1000M)	HP	8447F	3113A04621	12/08/2018	12/07/2019
Preamplifier(1G-26G)	Agilent	8449B	3008A02471	10/29/2018	10/28/2019
Preamplifier (26G-40G)	MITEQ	JS4-26004000- 27-5A	818471	11/20/2017	07/21/2019
RF Cable (9k-18G)	HUBER SUHNER	SUCOFLEX 104A	MY1397/4A	11/12/2018	11/11/2019
RF cable (18G~40G)	HUBER SUHNER	Sucoflex 102	27963/2&37421/2	11/12/2018	11/11/2019
Turn Table	MF	Turn Table-19	Turn Table-19	N/A	N/A
Mast Tower	MF	JSDES-15A	1308283	N/A	N/A
Controller	MF	MF-7802BS	MF780208460	N/A	N/A
AC power source	T-Power	TFC-1005	40006471	N/A	N/A
Signal Generator	R&S	SMU200A	102330	03/14/2018	03/13/2019
Signal Generator	Anritsu	MG3692A	20311	12/07/2018	12/06/2019
2.4G Filter	Micro-Tronics	Brm50702	76	12/25/2017	12/24/2018
Test Software	Audix	E3 Ver:6.12023	N/A	N/A	N/A



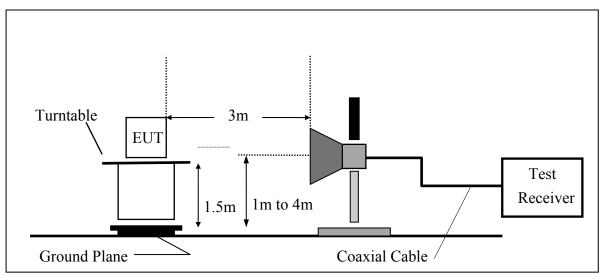
7.3 Test SET-UP:

The test item only performed radiated mode

(A) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(B) Radiated Emission Test Set-UP Frequency Over 1 GHz





7.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW, VBW=100kHz, Span=25MHz, Sweep = auto
- 5. Mark Peak, 2.390GHz and 2.4835GHz and record the max. level.
- 6. Repeat above procedures until all frequency measured were complete.

7.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

$\mathbf{FS} = \mathbf{RA} + \mathbf{AF} + \mathbf{CL} - \mathbf{AG}$

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

7.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.



Non-hopping mode: Radiated Emission: (BDR mode)

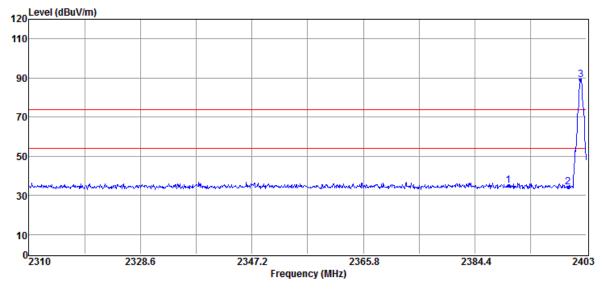
		TX C 12402 25	'H Low MHz			Test D Test B Humid	y Barr	
120	evel (dBuV/m)							
110-								
90-								3
70								
50								
30	hander an	han som an	n Municipalitation of the second	tures and the second second	and considering	formetal metrody and the second second second	anstrand de autor	water and the second
10								
0 <mark>_</mark> 2	310	2328.6	1	2347.2 Freque	236 ncy <mark>(</mark> MHz)	5.8	2384.4	2403
No	Freq	Reading	Factor	Level	Limit	Margin	Remark	Pol

1 2390.00 50.19 -15.71 34.48 74.00 -39.52 Peak VERTICA 2 2400.00 50.15 -15.73 34.42 71.02 -36.6 Peak VERTICA	No	Freq MHz	Reading	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
2 2400.00 50.15 -15.73 34.42 71.02 -36.6 Peak VERTICA		IVITIZ	dBuV	uD/III		uDu v/III	uD		V/11
	1	2390.00	50.19	-15.71	34.48	74.00	-39.52	Peak	VERTICAL
3 2402 07 106 75 15 73 91 02 E Peak VERTICA	2	2400.00	50.15	-15.73	34.42	71.02	-36.6	Peak	VERTICAL
5 2402.07 100.75 -15.75 91.02 F I Cak VERTICA	3	2402.07	106.75	-15.73	91.02	F		Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	50.59	-15.71	34.88	74.00	-39.12	Peak	HORIZONTAL
2	2400.00	50.07	-15.73	34.34	69.03	-34.69	Peak	HORIZONTAL
3	2402.07	104.76	-15.73	89.03	F		Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



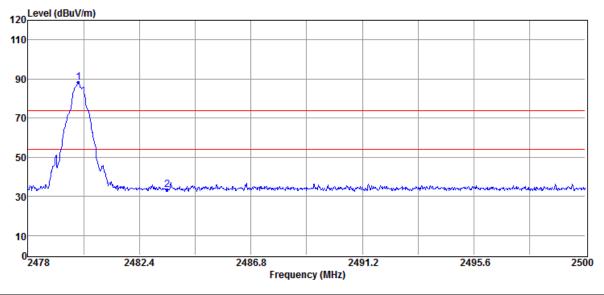
Deration Mode Fundamental Frequency Cemperature	TX CH High 2480 MHz 25		Test Da Test By Humidi	Barry
120 Level (dBuV/m)				
110				
90 1				
70				
50				
30	an a	andretalennen ander ander ander ander der son	hand have have have a second	den selfedender min feltreden som et er ander
10				
0 2478 243	2486	5.8 249 Frequency (MHz)	1.2 249	95.6 2500

]	No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
	1	2480.00	104.16	-15.71	88.45	F		Peak	VERTICAL
	2	2483.50	49.29	-15.71	33.58	74.00	-40.42	Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2480.00	103.88	-15.71	88.17	F		Peak	HORIZONTAL
2	2483.50	49.07	-15.71	33.36	74.00	-40.64	Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Radiated Emission (EDR 2M mode):

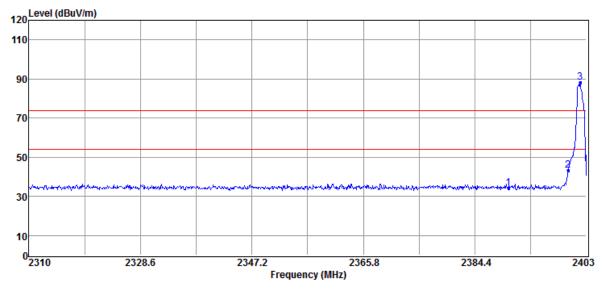
Funda	tion Mode amental Freq erature		°H Low MHz			Test Da Test By Humidit	Barry	
120	Level (dBuV/m)							
110								
90								<u>3</u>
70								
50								
30	downwanourwood	where we we would have been a	orgeowyna (w de Marida)	w	materia and produce	methodesettertetenenteeset	mundennon	mrst
10								
0	2310	2328.6	2347	7.2 Frequency (N	2365.8 IHz)	238	4.4	2403
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H

	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		V/H
1	2390.00	50.71	-15.71	35.00	74.00	-39.00	Peak	VERTICAL
2	2400.02	54.33	-15.73	38.60	68.02	-29.42	Peak	VERTICAL
3	2401.98	103.75	-15.73	88.02	F		Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	49.76	-15.71	34.05	74.00	-39.95	Peak	HORIZONTAL
2	2400.00	59.16	-15.73	43.43	68.27	-24.84	Peak	HORIZONTAL
3	2401.98	104.00	-15.73	88.27	F		Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



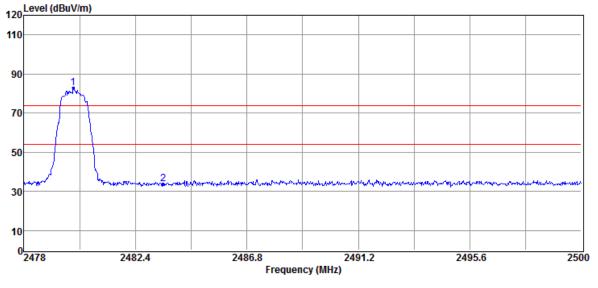
Operatio Fundame Fempera	ental Fr	e equency		H High MHz				Test Da Test By Humidi	7	2018/02/08 Barry 60 %
120	el (dBuV/m)			I	I	1			
110										
90	Å									
70										
50	+									
30	w	mannen	wentermen	an a		withing	phan-touten w	waat waa kataloo	an the second second	and an
10										
0 <mark></mark> 247	8	2482	.4	248	B6.8 Frequen	249 NCY (MHz)	91.2	24	95.6	2500

]	No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
	1	2480.18	106.19	-15.71	90.48	F		Peak	VERTICAL
	2	2483.50	50.35	-15.71	34.64	74.00	-39.36	Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



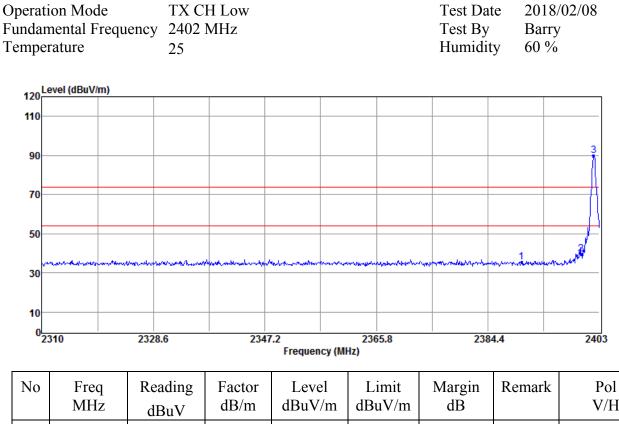


No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2479.96	98.60	-15.71	82.89	F		Peak	HORIZONTAL
2	2483.50	49.44	-15.71	33.73	74.00	-40.27	Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Radiated Emission (EDR 3M mode):

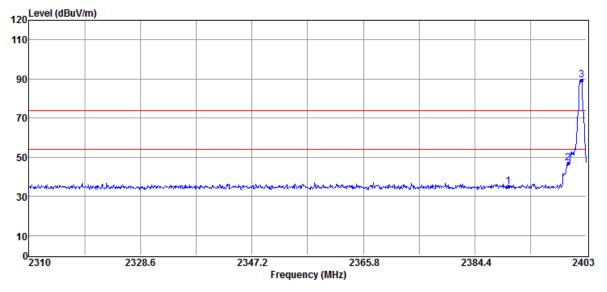


		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		V/H
	1	2390.00	51.24	-15.71	35.53	74.00	-38.47	Peak	VERTICAL
,	2	2400.00	55.39	-15.73	39.66	70.04	-30.38	Peak	VERTICAL
,	3	2402.07	105.77	-15.73	90.04	F		Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	50.81	-15.71	35.10	74.00	-38.90	Peak	HORIZONTAL
2	2400.00	62.64	-15.73	46.91	69.61	-22.7	Peak	HORIZONTAL
3	2402.26	105.34	-15.73	89.61	F		Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

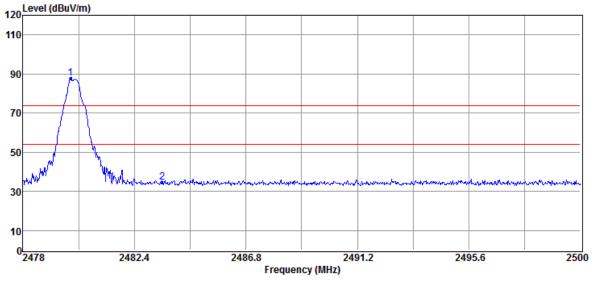


Deration Mode Sundamental Frequency Semperature	TX CH High y 2480 MHz 25		Test D Test B Humic	by Barry
120 Level (dBuV/m)				1
110				
90 1				
70				
50 Million				
30	WWWWWWWWWWWWWWWW	nedenskitter hårenskal selfen som han	a you and still you so the statements	
10				
0 ¹ 2478 248	32.4 248	36.8 24 Frequency (MHz)	91.2 2	495.6 2500

N	Лo	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
	1	2480.00	105.27	-15.71	89.56	F		Peak	VERTICAL
	2	2483.50	50.01	-15.71	34.30	74.00	-39.70	Peak	VERTICAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2479.89	103.49	-15.71	87.78	F		Peak	HORIZONTAL
2	2483.50	50.28	-15.71	34.57	74.00	-39.43	Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

2385.2

2404



Hopping mode: Radiated Emission: (BDR mode)

Operation Mode Fundamental Frequency Temperature		TX CH Low 2402 MHz 25					By I	2018/02/08 Barry 50 %	3
120									
110									
90									
70									

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H			
1	2390.00	52.84	-15.71	37.13	74.00	-36.87	Peak	VERTICAL			
2	2400.00	52.66	-15.73	36.93	73.95	-37.02	Peak	VERTICAL			
3	2401.93	109.68	-15.73	93.95	F		Peak	VERTICAL			

France

2366.4

(0.011--)

2347.6

Remark:

50

30

10

0^L 2310

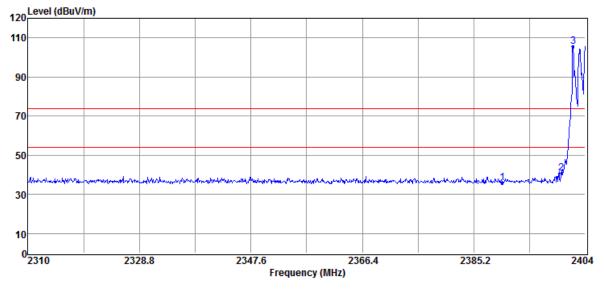
- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

Note: "F" denotes fundamental frequency

2328.8

International Standards Laboratory Corp.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	51.68	-15.71	35.97	74.00	-38.03	Peak	HORIZONTAL
2	2399.96	56.55	-15.73	40.82	85.61	-44.79	Peak	HORIZONTAL
3	2401.93	121.34	-15.73	105.61	F		Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



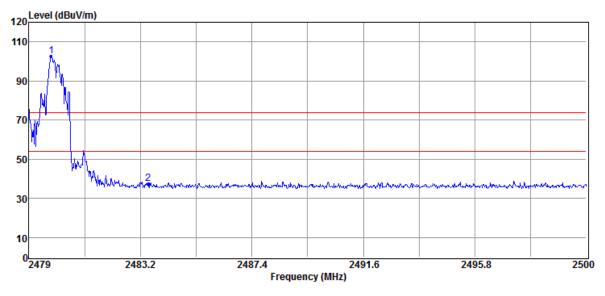
Dperation Mode Fundamental Frequency Femperature	TX CH High 2480 MHz 25	2480 MHz					018/02/08 arry 0 %
120 Level (dBuV/m)							
110							
90							
70							
50	2.						
30	and the mark of the second	in manalest and the	.vm/www.madealine	yandiyan yekan w	destillen som anderskaplen	********	
10							
0 2479 248	3.2 248	37.4 Frequenc	249 cy (MHz)	1.6	249	95.8	2500

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2479.85	112.68	-15.71	96.97	F		Peak	VERTICAL
2	2483.50	51.30	-15.71	35.59	74.00	-38.41	Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2479.85	118.23	-15.71	102.52	F		Peak	HORIZONTAL
2	2483.50	53.41	-15.71	37.70	74.00	-36.30	Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



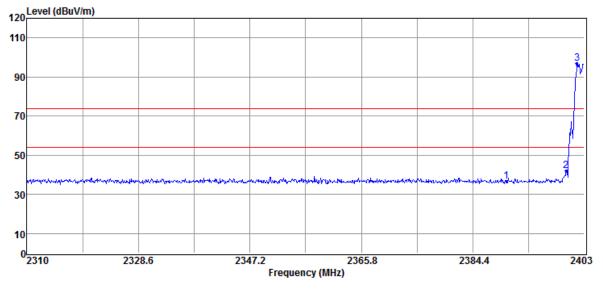
Radiated Emission (EDR 2M mode):

-	ion Mode nental Frequ rature						Test Date2018/02/08Test ByBarryHumidity60 %			
120	evel (dBuV/m)				1					
110										
90								3		
70								f		
50										
30	n an	non des antidopes angles de maines	ato the factor of the factor o	una managear personala an	an a	an manghan ta bhai	an a	und manual water to		
10										
0 <u></u> 2	2310	2328.6	1	2347.2 Freque	2365 ncy (MHz)	5.8	2384.4	2403		
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H		
1	2390.00	51.69	-15.71	35.98	74.00	-38.02	Peak	VERTICAL		
2	2400.00	52.84	-15.73	37.11	69.04	-31.93	Peak	VERTICAL		
3	2402.16	104.77	-15.73	89.04	F		Peak	VERTICAL		

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	52.35	-15.71	36.64	74.00	-37.36	Peak	HORIZONTAL
2	2400.00	57.68	-15.73	41.95	76.87	-34.92	Peak	HORIZONTAL
3	2401.79	112.60	-15.73	96.87	F		Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.

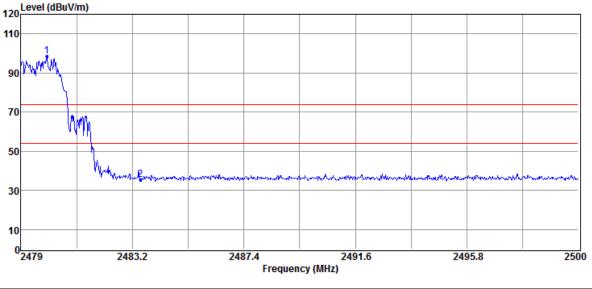


Deration Mode Sundamental Free Semperature	TX CH quency 2480 M 25			Test Date Test By Humidity	2018/02/08 Barry 60 %
120 Level (dBuV/m)					
110					
90 1 ////////////////////////////////////					
70					
50					
30	manna an ann an an an an an an an an an a	and a second and a s	utentur menantaria	anter same an	maddinates the sector of the s
10					
0 <mark></mark> 2479	2483.2	2487.4 Freque	2491.6 ency (MHz)	2495.8	2500

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2479.36	103.24	-15.71	87.53	F		Peak	VERTICAL
2	2483.50	51.36	-15.71	35.65	74.00	-38.35	Peak	VERTICAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2479.98	114.32	-15.71	98.61	F		Peak	HORIZONTAL
2	2483.50	51.19	-15.71	35.48	74.00	-38.52	Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



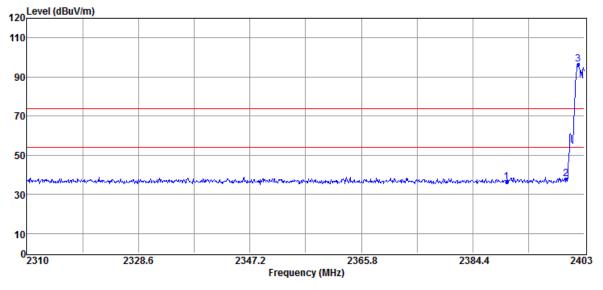
Radiated Emission (EDR 3M mode):

-	ion Mode nental Frequ rature		TX CH Low 2402 MHz 25				Test Date2018/02/08Test ByBarryHumidity60 %			
120	evel (dBuV/m)									
110										
90								3		
70										
50										
30	enter de la companya	have the month of the second	and the state of the second	ner han an a	nerubrumptonspenseer Ut	gententen han der An	som net the source of the sour	ri-1		
10										
02	2310	2328.6		2347.2 Freque	2365 ncy (MHz)	5.8	2384.4	2403		
No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H		
1	2390.00	52.22	-15.71	36.51	74.00	-37.49	Peak	VERTICAL		
2	2400.00	51.97	-15.73	36.24	65.61	-29.37	Peak	VERTICAL		
3	2401.98	101.34	-15.73	85.61	F		Peak	VERTICAL		

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2390.00	51.99	-15.71	36.28	74.00	-37.72	Peak	HORIZONTAL
2	2400.00	53.53	-15.73	37.80	76.48	-38.68	Peak	HORIZONTAL
3	2401.98	112.21	-15.73	96.48			Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



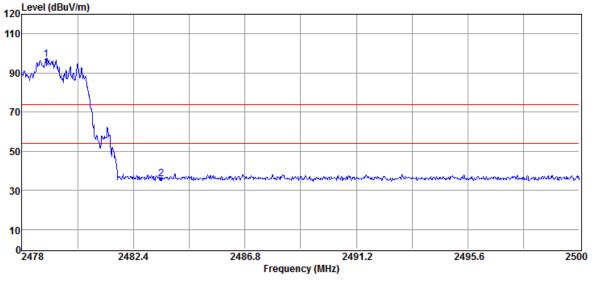
	tion Mode mental Fr erature			H High ∕IHz				Test Da Test By Humidi	7	2018/02/08 Barry 60 %
120	.evel (dBuV/m	1)								
110										
90	1 man man									
70										
50		With								
30-		have	2 	manter	and an and the second	www.weather.com	montand	^k wlmenikejenteriese	ennen andere	- martine and a second
10										
0 <u></u> 2	2478	2482	.4	248	36.8 Frequen	249 Icy (MHz)	91.2	24	95.6	2500

No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2478.79	103.96	-15.71	88.25	F		Peak	VERTICAL
2	2483.50	52.87	-15.71	37.16	74.00	-36.84	Peak	VERTICAL

Remark:

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





No	Freq MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Remark	Pol V/H
1	2478.97	112.64	-15.71	96.93	F		Peak	HORIZONTAL
2	2483.50	51.67	-15.71	35.96	74.00	-38.04	Peak	HORIZONTAL

- 1 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 2 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 3 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 4 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.





8. Spurious Emission Test

8.1 Standard Applicable:

According to §15.247(d), all other emissions outside these bands shall not exceed the general radiated emission limits specified in §15.209(a). And according to §15.33(a)(1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

8.2 Measurement Equipment Used:

8.2.1. Conducted Emission at antenna port:

Refer to section 6.2 for details.

8.2.2. Radiated emission:

Refer to section 7.2 for details.

8.3 Test SET-UP:

The test item only performed radiated mode

Refer to section 7.3 for details.



8.4 Measurement Procedure:

- 1. According 414788 section 2, Either OATS or chamber for radiated emission below 30MHz, the test was done at 966 chamber, the test site was evaluated with OATS and the Chamber has test signals level greater than OATS's.
- 2. The EUT was placed on a turn table which is 0.8m/1.5m above ground plane in 966 chamber.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
- 5. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.
- 6. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 7. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 8. Repeat above procedures until all frequency measured were complete.

8.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where	FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
	RA = Reading Amplitude	AG = Amplifier Gain
	AF = Antenna Factor	

8.6 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.



Operation Mode	TX CH Low	Test Date	2018/02/08
Fundamental Frequency	2402MHz	Test By	Barry
Temperature	25	Humidity	60 %

No	Freq	Reading	Factor	Level	Limit	Over Limit	Remark	Pol
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		V/H
1	106.63	34.46	-10.07	24.39	43.50	-19.11	Peak	VERTICAL
2	156.10	28.37	-5.92	22.45	43.50	-21.05	Peak	VERTICAL
3	385.02	30.51	-3.29	27.22	46.00	-18.78	Peak	VERTICAL
4	568.35	29.81	-0.36	29.45	46.00	-16.55	Peak	VERTICAL
5	625.58	32.18	0.71	32.89	46.00	-13.11	Peak	VERTICAL
6	815.70	29.91	3.84	33.75	46.00	-12.25	Peak	VERTICAL
1	159.01	29.58	-5.90	23.68	43.50	-19.82	Peak	HORIZONTAL
2	361.74	29.23	-3.76	25.47	46.00	-20.53	Peak	HORIZONTAL
3	375.32	42.47	-3.49	38.98	46.00	-7.02	Peak	HORIZONTAL
4	525.67	29.83	-1.22	28.61	46.00	-17.39	Peak	HORIZONTAL
5	625.58	34.60	0.71	35.31	46.00	-10.69	Peak	HORIZONTAL
6	838.01	29.57	4.17	33.74	46.00	-12.26	Peak	HORIZONTAL

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 9MHz to 1000MHz were made with an instrument detector setting 9-90kHz/110-490kHz using PK/AV and other Frequency Band using PK/QP
- 4 Measurement result within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 9kHz to 30MHz was 10kHz, VBW= 30kHz; between 30MHz to 1GHz was 100kHz, VBW=300kHz.



Radiated Spurious Emission Measurement Result (below 1GHz)

TX CH Mid	Test Date	2018/02/08
2441MHz	Test By	Barry
25	Humidity	60 %
	2441MHz	2441MHz Test By

No	Freq	Reading	Factor	Level	Limit	Over Limit	Remark	Pol
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		V/H
1	106.63	34.48	-10.07	24.41	43.50	-19.09	Peak	VERTICAL
2	389.87	28.90	-3.18	25.72	46.00	-20.28	Peak	VERTICAL
3	500.45	32.69	-1.64	31.05	46.00	-14.95	Peak	VERTICAL
4	578.05	30.56	-0.12	30.44	46.00	-15.56	Peak	VERTICAL
5	682.81	29.83	1.58	31.41	46.00	-14.59	Peak	VERTICAL
6	735.19	29.31	2.73	32.04	46.00	-13.96	Peak	VERTICAL
1	375.32	41.61	-3.49	38.12	46.00	-7.88	Peak	HORIZONTAL
2	532.46	30.11	-1.11	29.00	46.00	-17.00	Peak	HORIZONTAL
3	595.51	31.22	0.31	31.53	46.00	-14.47	Peak	HORIZONTAL
4	625.58	34.19	0.71	34.90	46.00	-11.10	Peak	HORIZONTAL
5	723.55	29.73	2.45	32.18	46.00	-13.82	Peak	HORIZONTAL
6	865.17	30.12	4.65	34.77	46.00	-11.23	Peak	HORIZONTAL

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 9MHz to 1000MHz were made with an instrument detector setting 9-90kHz/110-490kHz using PK/AV and other Frequency Band using PK/QP
- 4 Measurement result within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 9kHz to 30MHz was 10kHz, VBW= 30kHz; between 30MHz to 1GHz was 100kHz, VBW=300kHz.



Radiated Spurious Emission Measurement Result (below 1GHz)

Operation Mode	TX CH High	Test Date	2018/02/08
Fundamental Frequency	2480MHz	Test By	Barry
Temperature	25	Humidity	60 %

No	Freq	Reading	Factor	Level	Limit	Over Limit	Remark	Pol
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		V/H
1	375.32	30.00	-3.49	26.51	46.00	-19.49	Peak	VERTICAL
2	419.94	28.91	-2.62	26.29	46.00	-19.71	Peak	VERTICAL
3	594.54	31.39	0.29	31.68	46.00	-14.32	Peak	VERTICAL
4	625.58	30.13	0.71	30.84	46.00	-15.16	Peak	VERTICAL
5	725.49	29.89	2.50	32.39	46.00	-13.61	Peak	VERTICAL
6	751.68	29.69	3.11	32.80	46.00	-13.20	Peak	VERTICAL
1	358.83	29.28	-3.83	25.45	46.00	-20.55	Peak	HORIZONTAL
2	375.32	41.81	-3.49	38.32	46.00	-7.68	Peak	HORIZONTAL
3	625.58	34.70	0.71	35.41	46.00	-10.59	Peak	HORIZONTAL
4	631.40	31.03	0.79	31.82	46.00	-14.18	Peak	HORIZONTAL
5	751.68	28.67	3.11	31.78	46.00	-14.22	Peak	HORIZONTAL
6	833.16	29.48	4.10	33.58	46.00	-12.42	Peak	HORIZONTAL

- 1 No further spurious emissions detected from the lowest internal frequency and 30MHz.
- 2 Measuring frequencies from the lowest internal frequency to the 1GHz.
- 3 Radiated emissions measured in frequency range from 9MHz to 1000MHz were made with an instrument detector setting 9-90kHz/110-490kHz using PK/AV and other Frequency Band using PK/QP
- 4 Measurement result within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 5 The IF bandwidth of SPA between 9kHz to 30MHz was 10kHz, VBW= 30kHz; between 30MHz to 1GHz was 100kHz, VBW=300kHz.



Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Low	Test Date	2018/02/08
Fundamental Frequency	2402 MHz	Test By	Barry
Temperature	25	Humidity	60 %

No	Freq	Reading	Factor	Level	Limit	Over Limit	Remark	Pol
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		V/H
1	4804.00	50.28	-9.27	41.01	74.00	-32.99	Peak	VERTICAL
2	7206.00	46.64	-1.70	44.94	74.00	-29.06	Peak	VERTICAL
1	4804.00	47.75	-9.27	38.48	74.00	-35.52	Peak	HORIZONTAL
2	7206.00	46.54	-1.70	44.84	74.00	-29.16	Peak	HORIZONTAL

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 5 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH Mid	Test Date	2018/02/08
Fundamental Frequency	2441 MHz	Test By	Barry
Temperature	25	Humidity	60 %
1 5		5	5

No	Freq	Reading	Factor	Level	Limit	Over Limit	Remark	Pol
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		V/H
1	4882.00	47.37	-9.07	38.30	74.00	-35.70	Peak	VERTICAL
2	7323.00	49.74	-1.63	48.11	74.00	-25.89	Peak	VERTICAL
1	4882.00	48.96	-9.07	39.89	74.00	-34.11	Peak	HORIZONTAL
2	7323.00	48.49	-1.63	46.86	74.00	-27.14	Peak	HORIZONTAL

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 5 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



Radiated Spurious Emission Measurement Result (above 1GHz)

Operation Mode	TX CH High	Test Date	2018/02/08
Fundamental Frequency	2480 MHz	Test By	Barry
Temperature	25	Humidity	60 %

No	Freq	Reading	Factor	Level	Limit	Over Limit	Remark	Pol
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB		V/H
1	4960.00	47.72	-8.87	38.85	74.00	-35.15	Peak	VERTICAL
2	7440.00	46.89	-1.63	45.26	74.00	-28.74	Peak	VERTICAL
1	4960.00	46.97	-8.87	38.10	74.00	-35.90	Peak	HORIZONTAL
2	7440.00	46.98	-1.63	45.35	74.00	-28.65	Peak	HORIZONTAL

- 1 Measuring frequencies from the lowest internal frequency to the 10th of fundamental frequency
- 2 Field strength limits for frequency above 1000MHz are based on average limits. However, Peak mode field strength shall not exceed the average limits specified plus 20dB.
- 3 Measurement of data within this frequency range shown "-" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 Spectrum Peak mode IF bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, Sweep time= 200 ms., the VBW setting was 3 MHz.
- 5 Spectrum AV mode if bandwidth Setting : 1GHz- 26GHz, RBW= 1MHz, VBW= 10Hz, Sweep time= 200 ms.



9. FREQUENCY SEPARATION

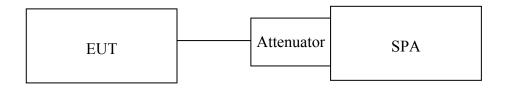
9.1 Standard Applicable:

According to §15.247(a)(1), Frequency hopping systems shall have hopping channel carrier frequencies separated by minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

9.2 Measurement Equipment Used:

Refer to section 6.2 for details.

9.3 Test Set-up:



9.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = middle of hopping channel.
- 4. Set the spectrum analyzer as RBW,VBW=100kHz, Adjust Span to 3.0 MHz, Sweep = auto.
- 5. Max hold. Mark 3 Peaks of hopping channel and record the 3 peaks frequency.

9.5 Measurement Result:

Channel separation (MHz)	Limit	Result
1	>=25KHz or 2/3 times 20dB bandwidth	PASS

Note: Refer to next page for plots.



Frequency Separation Test Data Low

	um Analyzer - Swept SA									- 0 ×
RL Center Fre	q 2.4030000		SENSE		Avg Type:		TRACE	Nov 29, 2018	F	requency
0 dB/div	Ref Offset 0.5 dB Ref 20.50 dBm	PNO: Wide G	Trig: Free R #Atten: 30 d		Avg Hold:		oer Ikr1 1.0			Auto Tune
10.5				Δ2						Center Freq 3000000 GHz
9.50	/~Xey			h		Γ	~~~		2.40	Start Freq 1500000 GHz
29.5					~~~				2.40	Stop Freq 4500000 GHz
49.5									Auto	CF Step 300.000 kHz Man
59.5										Freq Offset 0 Hz
69.5										Scale Type
Center 2.40 Res BW 10		#VBW	300 kHz		5	Sweep 1.	Span 3. 000 ms (1		Log	Lin
sg						STATUS				

Mid





High

	trum Analyzer - Swept SA									
Center Fro	eq 2.479000000	GHz PNO: Wide	SENSE			LIGN AUTO Log-Pwr >100/100	TRAC	4 Nov 29, 2018 6 1 2 3 4 5 6 7 P P P P P P	F	requency
	Ref Offset 0.5 dB	IFGain:Low	#Atten: 30 c	iB		Δ	/kr1 1.0			Auto Tune
10.5	Ref 20.50 dBm						162			Center Freq 9000000 GHz
-9.50			<u>, ~~X:</u>	em		5			2.47	Start Freq 7500000 GHz
-19.5		V			V				2.48	Stop Freq 0500000 GHz
-39.5									Auto	CF Step 300.000 kHz Man
-69.5										Freq Offset 0 Hz
Center 2.4		#VBW	300 kHz			Swaan 1	Span 3	.000 MHz 1001 pts)	Log	Scale Type Lin
MSG		#VBW	300 KH2			SWeep		roor pis)		



10. Number of Hopping Frequency

10.1 Standard Applicable:

According to 15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz bands shall use at least 15 hopping frequencies.

10.2 Measurement Equipment Used:

Refer to section 6.2 for details.

10.3 Test Set-up:

Refer to section 9.3 for details.

10.4 Measurement Procedure:

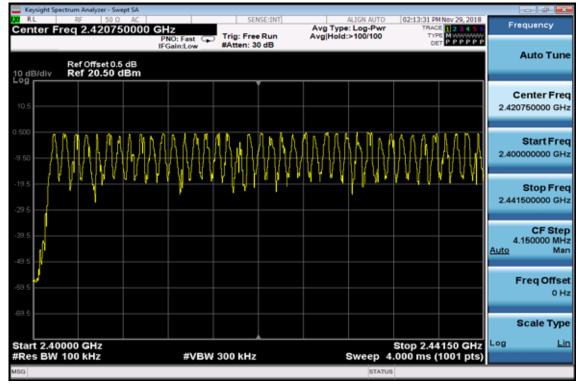
- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set spectrum analyzer Start=2400MHz, Stop = 2441.5MHz and Start=2441.5MHz, Stop = 2483.5MHz, Sweep = auto.
- 4. Set the spectrum analyzer as RBW=100kHz, VBW=300kHz
- 5. Max hold, view and count how many channel in the band.

10.5 Measurement Result:

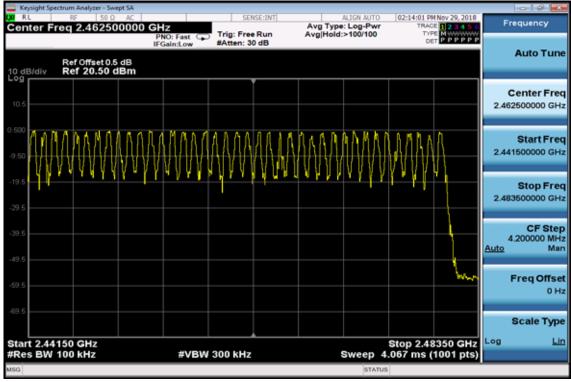
Note: Refer to next page for plots.



Channel Number 2.4 GHz – 2.441.5GHz



2.441.5 GHz – 2.4835GHz





11. Time of Occupancy (Dwell Time)

11.1 Standard Applicable:

According to \$15.247(a)(1)(iii), Frequency hopping systems operating in the 2400MHz-2483.5 MHz. The average time of occupancy on any frequency shall not greater than 0.4 s within period of 0.4 seconds multiplied by the number of hopping channel employed.

11.2 Measurement Equipment Used:

Refer to section 6.2 for details.

11.3 Test Set-up:

Refer to section 9.3 for details.

11.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set center frequency of spectrum analyzer = operating frequency.
- 4. Set the spectrum analyzer as RBW / VBW = 1MHz, Span = 0Hz,
- 5. Repeat above procedures until all frequency measured were complete.



11.5 Measurement Result:

A period time = 0.4 (ms) * 79 = 31.6 (s)

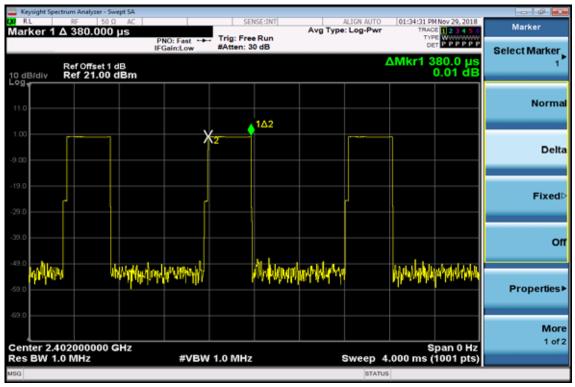
CH Low	DH1 time slot	=	0.380 (ms) *	* (1600/2/79)	* 31.6 =	121.60	(ms)
	DH3 time slot	=	1.640 (ms) *	* (1600/4/79)	* 31.6 =	262.40	(ms)
	DH5 time slot	=	2.880 (ms) *	* (1600/6/79)	* 31.6 =	307.20	(ms)
CH Mid	DH1 time slot	=	0.372 (ms) *	* (1600/2/79)	* 31.6 =	119.04	(ms)
	DH3 time slot	=	1.610 (ms) *	* (1600/4/79)	* 31.6 =	257.60	(ms)
	DH5 time slot	=	2.860 (ms) *	* (1600/6/79)	* 31.6 =	305.07	(ms)
CH High	DH1 time slot	=	0.380 (ms) *	* (1600/2/79)	* 31.6 =	121.60	(ms)
	DH3 time slot	=	1.630 (ms) *	* (1600/4/79)	* 31.6 =	260.80	(ms)
	DH5 time slot	=	2.880 (ms) *	* (1600/6/79)	* 31.6 =	307.20	(ms)
AFH Mod	e						
A period t	ime = 0.4 (ms) *	20 =	= 8 (s)				
CH Low	DH1 time slot	=	0.380 (ms) *	(800/2/20)	* 8 =	60.80	(ms)
	DH3 time slot	=	1.640 (ms) *	(800/4/20)	* 8 =	131.20	(ms)
	DH5 time slot	=	2.880 (ms) *	(800/6/20)	* 8 =	153.60	(ms)
CH Mid	DH1 time slot	=	0.372 (ms) *	(800/2/20)	* 8 =	59.52	(ms)
	DH3 time slot	=	1.610 (ms) *	· · · · ·	* 8 =	128.80	(ms)
	DH5 time slot	=	2.860 (ms) *	(800/6/20)	* 8 =	152.53	(ms)
CH HE-1	DUI time al t	_				60.00	(
CH High	DH1 time slot	=	0.380 (ms) *	· · · · · · · · · · · · · · · · · · ·	* 8 =	60.80	(ms)
	DH3 time slot	=	1.630 (ms) *		* 8 =	130.40	(ms)
	DH5 time slot	=	2.880 (ms) *	(800/6/20)	* 8 =	153.60	(ms)

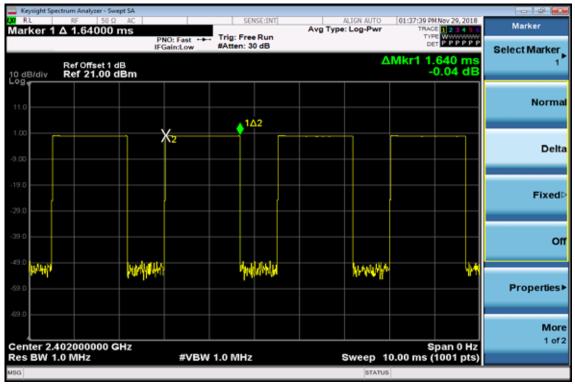
Note: Refer to next page for plots.



Low Channel

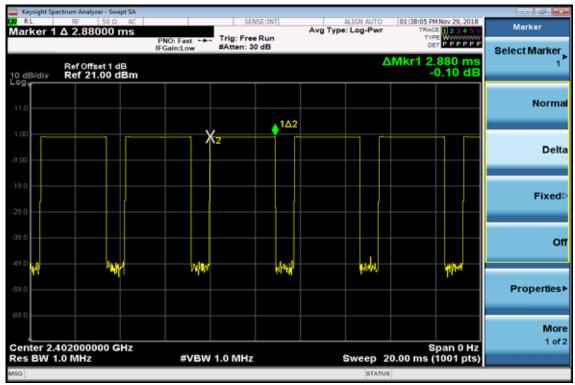
DH1



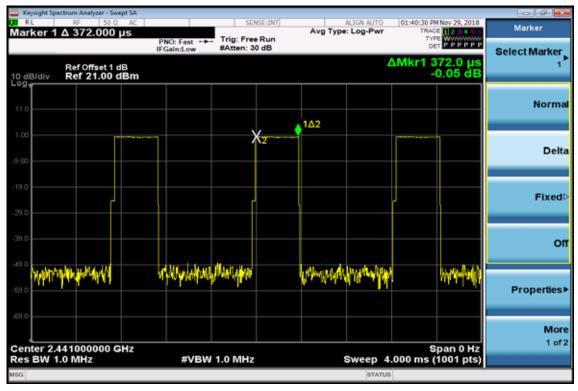




DH5

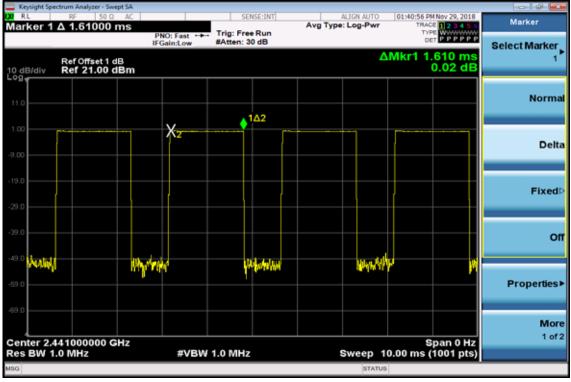


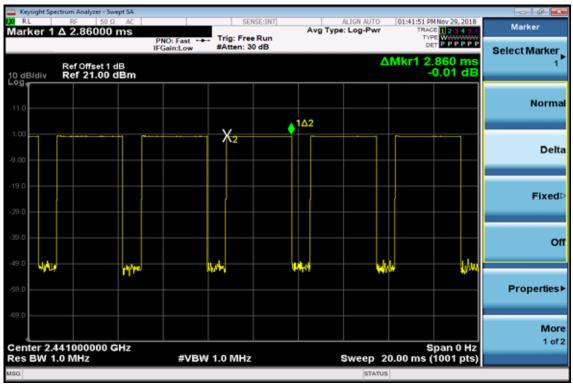
Mid Channel





DH3

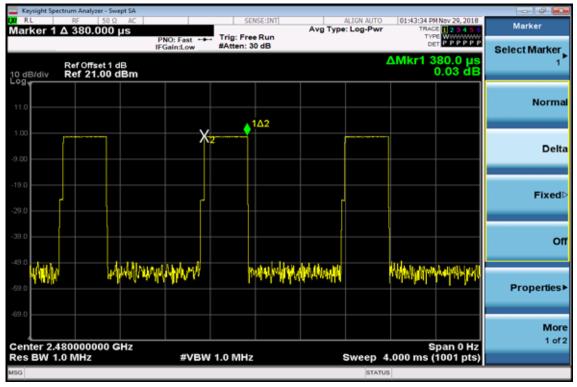


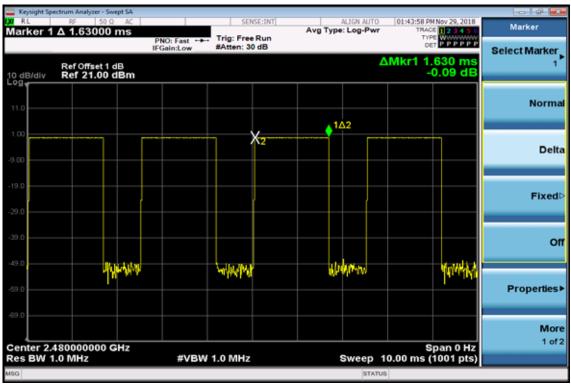




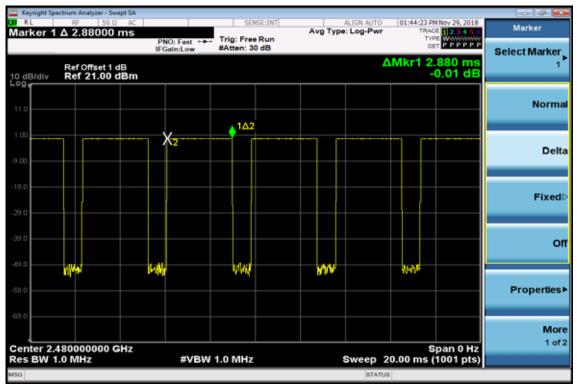
High Channel

DH1













12. 20dB Bandwidth

12.1 Standard Applicable:

According to 15.247(a)(1), and RSS210 A8.1(b) for frequency hopping systems operating in the 2400MHz-2483.5 MHz no limit for 20dB bandwidth.

12.2 Measurement Equipment Used:

Refer to section 6.2 for details.

12.3 Test Set-up:

Refer to section 9.3 for details.

12.4 Measurement Procedure:

- 1. Place the EUT on the table and set it in transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW= 1 % 5% of Bandwidth., Span= 3MHz, Sweep=auto
- 4. Mark the peak frequency and –20dB (upper and lower) frequency.
- 5. Repeat above procedures until all frequency measured were complete.



12.5 Measurement Result:

BDR Mode

СН	20dB Bandwidth
	(MHz)
Low	0.572
Mid	0.574
High	0.927

EDR 2M Mode

СН	20dB Bandwidth	2/3* 20dB Bandwidth
	(MHz)	(MHz)
Lower	1.354	0.902
Mid	1.360	0.906
Higher	1.360	0.907

EDR 3M Mode

СН	20dB Bandwidth	2/3* 20dB Bandwidth
	(MHz)	(MHz)
Lower	1.319	0.879
Mid	1.319	0.879
Higher	1.320	0.880

Note: Refer to next page for plots.

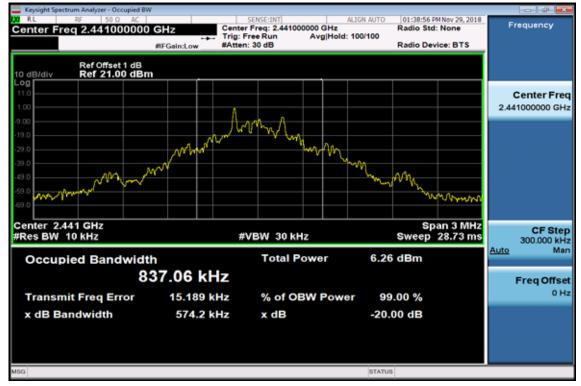


BDR Mode

20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid





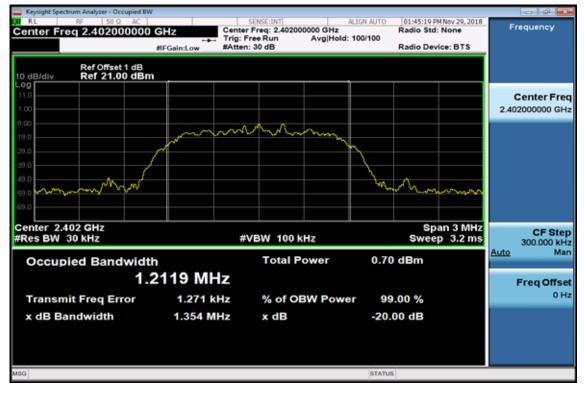


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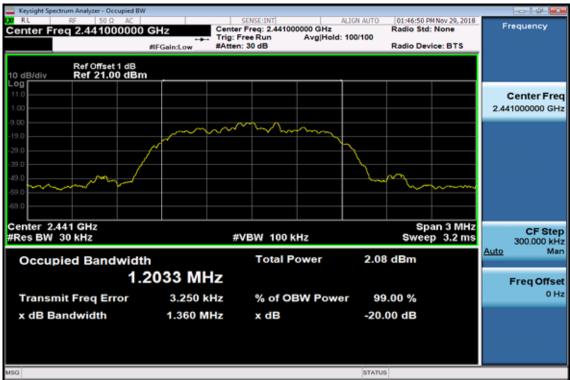
20dB Bandwidth Test Data CH-High

EDR 2M Mode

20dB Bandwidth Test Data CH-Low







20dB Bandwidth Test Data CH-Mid

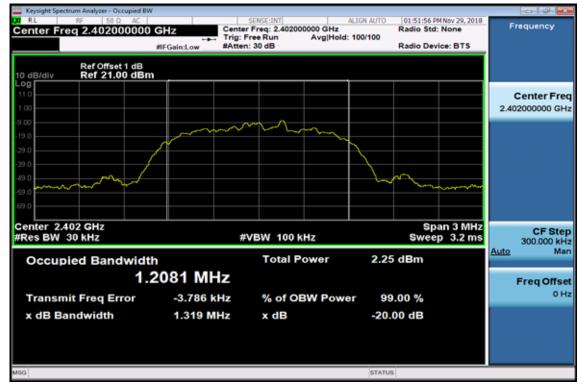
20dB Bandwidth Test Data CH-High



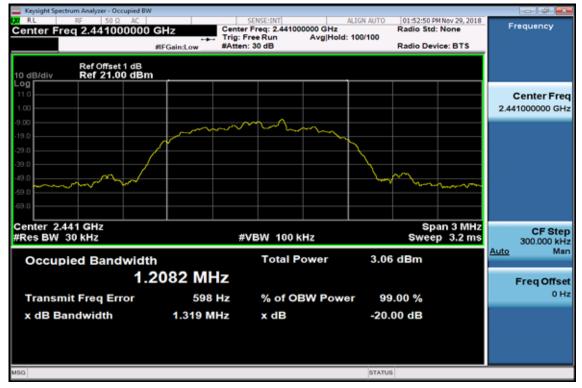


EDR 3M Mode

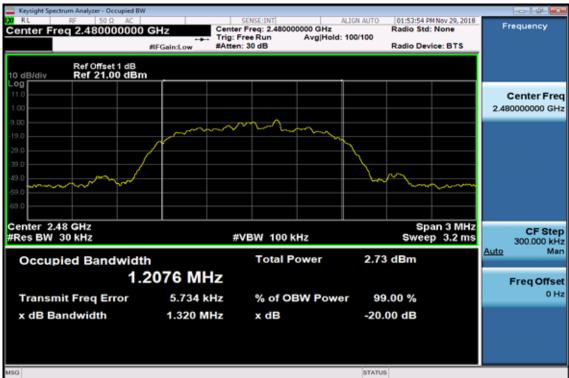
20dB Bandwidth Test Data CH-Low



20dB Bandwidth Test Data CH-Mid







20dB Bandwidth Test Data CH-High



13. Antenna Requirement

13.1 Standard Applicable:

According to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

And according to §15.247(c), if transmitting antennas of directional gain greater than 6dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

According to RSS-GEN 8.3, the applicant for equipment certification, as per RSP-100, must provide a list of all antenna types that may be used with the licence-exempt transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna.

Licence-exempt transmitters that have received equipment certification may operate with different types of antennas. However, it is not permissible to exceed the maximum equivalent isotropically radiated power (e.i.r.p.) limits specified in the applicable standard (RSS) for the licence-exempt apparatus.

Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level.9 When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.

User manuals for transmitters equipped with detachable antennas shall also contain the following notice in a conspicuous location:

This radio transmitter (identify the device by certification number or model number if Category II) has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device. Immediately following the above notice, the manufacturer shall provide a list of all antenna types approved for use with the transmitter, indicating the maximum permissible antenna gain (in dBi).

13.2 Antenna Connected Construction:

The directional gains of antenna used for transmitting is 2.42 dBi, and the antenna type is PCB antenna which is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.