

FCC Test Report (BT-EDR)

Report No.: RF170513E01E-2

FCC ID: R68XPICO200

Test Model: xPico 270

Series Model: xPico 250, xPico 240

Received Date: Apr. 15, 2019

Test Date: June 03, 2019

Issued Date: June 14, 2019

Applicant: Lantronix, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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FCC Registration /

Designation Number: 723255 / TW2022





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Release Control Record

Issue No.	Description	Date Issued
RF170513E01E-2	Original release.	June 14, 2019

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1 Certificate of Conformity

Product: xPico[®] 200 Series Wi-Fi[®] IoT Gateway module

Brand: Lantronix

Test Model: xPico 270

Series Model: xPico 250, xPico 240

Sample Status: ENGINEERING SAMPLE

Applicant: Lantronix, Inc.

Test Date: June 03, 2019

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)

ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Wendy Wu / Specialist

May Chen / Manager



2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (SECTION 15.247)							
FCC Clause	Test Item Result Remarks						
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit. Minimum passing margin is -6.95dB at 0.38438MHz.				
15.247(b)	Maximum Peak Output Power	PASS	Meet the requirement of limit.				
15.205 & 209 & 15.247(d)	Radiated Emissions & Band Edge Measurement	PASS	Meet the requirement of limit. Minimum passing margin is -1.0dB at 2483.50MHz.				

NOTE:

- 1. If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.
- 2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Conducted Emissions at mains ports	150kHz ~ 30MHz	1.8 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	5.1 dB
	1GHz ~ 6GHz	5.1 dB
Radiated Emissions above 1 GHz	6GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.2 dB

2.2 Modification Record

There were no modifications required for compliance.

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3 General Information

3.1 General Description of EUT

Product	xPico [®] 200 Series Wi-Fi [®] IoT Gateway module
Brand	Lantronix
Test Model	xPico 270
Series Model	xPico 250, xPico 240
Status of EUT	ENGINEERING SAMPLE
Power Supply Rating	3.3Vdc from host equipment
Modulation Type	GFSK, π/4-DQPSK, 8DPSK
Modulation Technology	FHSS
Transfer Rate	Up to 3Mbps
Operating Frequency	2.402GHz ~ 2.480GHz
Number of Channel	79
Output Power	1.125mW
Antenna Type	Refer to Note
Antenna Connector	Refer to Note
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. This report is prepared for FCC Class II permissive change. The difference compared with the Report No.: RF170513E01-2 design is as the following information:

Add new model.

Original								
Product	Brand	Model	Difference	Antenna				
		xPico 250	SKU A: SIP with two UFL connectors Wi-Fi Chip and Bluetooth chip	Dipole Antenna (long) Dipole Anteena (short) PCB Antenna				
xPico [®] 200 Series Wi-Fi [®]	Lantronix		SKU B: same as SKU A, no BT function.	Dipole Antenna (long) Dipole Anteena (short) PCB Antenna				
IoT Gateway module		xPico 240	SKU C: same SKU B except the two UFLs are replaced by a single on-module stamped metal antenna. Circuit board is the same. BOM population option for UFL or on-module antenna circuit is the difference.	On-board Antenna				
Newly								
Product	Brand	Model	Difference	Antenna				
xPico [®] 200 Series Wi-Fi [®] IoT Gateway module	Lantronix	xPico 270	SIP with two UFL connectors Wi-Fi Chip and Bluetooth chip uses a TCXO in place of the crystal that runs the Wi-Fi radio and add ac mode	Dipole Antenna (long) Dipole Anteena (short) PCB Antenna				

From the above models, model: **xPico 270** was selected as representative model for the test and its data was recorded in this report.



- 2. According to above conditions, only Conducted power, Conducted Emission and Radiated Emissions need to be performed. And all data were verified to meet the requirements.
- 3. There are WLAN, BT technology used for the EUT.
- 4. Simultaneously transmission condition.

Condition	Technology				
1	WLAN (2.4GHz) Bluetooth				
2	WLAN (5GHz)	Bluetooth			

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.

5. The antennas provided to the EUT, please refer to the following table:

Ant Set.	Brand	Model	Antenna Gain (dBi)	Frequency rang (GHz)	Antenna type	Connector type	*Cable Length	*Cable Loss(dB)	excluding cable loss Antenna Gain(dBi)
	Toogloo	GW.71.5153	2.8	2.4~2.4835			45mm	1	3.8
1	Taoglas	GW.71.5155	3.8	5.15~5.85	Dinolo	D CMA	45111111	1.7	5.5
'	Toogles	CW 74 5450	2.8	2.4~2.4835	Dipole	R-SMA	45mm	1	3.8
	Taoglas	GW.71.5153	3.8	5.15~5.85				1.7	5.5
	NIA	A WSS002	1	2.4~2.4835	Dipole	R-SMA	45mm 45mm	1	2
2	NA		0.3	5.15~5.85				1.7	2
2	NA	WSS002	1	2.4~2.5				1	2
			0.3	5.15~5.25				1.7	2
	oth ortropies	1000660	2.5	2.4~2.4835					
3	ethertronics	1000668	5	5.15~5.85	PCB	i-pex(MHF)	50mm	NIA	
3		4000000	2.5	2.4~2.4835	PCB			NA	NA
	ethertronics	1000668	5	5.15~5.85					
4	Dun And	PRO-OB-53	0.02	2.4~2.4835	Matal				
4	ProAnt	6	3.31	5.15~5.85	Metal	NA	NA	NA	NA

Note:

- 1. Ant Set 4 only for model: xPico 240.
- 2. From the above antennas, Ant Set 1, 3 were selected as representative antenna for the test.
- 6. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.



Description of Test Modes 3.2

79 channels are provided for BT-EDR mode:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

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3.2.1 Test Mode Applicability and Tested Channel Detail

EUT CONFIGURE		APPLICA	ABLE TO		DESCRIPTION
MODE	RE≥1G	RE<1G	PLC	APCM	DESCRIPTION
1	V	V	-	√	With Antenna Set 1 (Dipole)
2	V	V	V	-	With Antenna Set 3 (PCB)

Where

RE≥1G: Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE:

Radiated Emission Test (Above 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE	TESTED	MODULATION	MODULATION	PACKET TYPE
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	
0 to 78	0, 39, 78	FHSS	GFSK	DH5

Radiated Emission Test (Below 1GHz):

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE	TESTED	MODULATION	MODULATION	PACKET TYPE
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	
0 to 78	0	FHSS	GFSK	DH5

Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE	TESTED	MODULATION	MODULATION	PACKET TYPE
CHANNEL	CHANNEL	TECHNOLOGY	TYPE	
0 to 78	0	FHSS	GFSK	DH5

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^{1.} In original report, the EUT's antenna (PCB) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **X-plane**.



Antenna Port Conducted Measurement:

- This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH5

Test Condition:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
RE≥1G	25deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
RE<1G	25deg. C, 65%RH	120Vac, 60Hz	Robert Cheng
PLC	24deg. C, 75%RH	120Vac, 60Hz	Andy Ho
APCM	25deg. C, 60%RH	120Vac, 60Hz	Robert Cheng

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3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

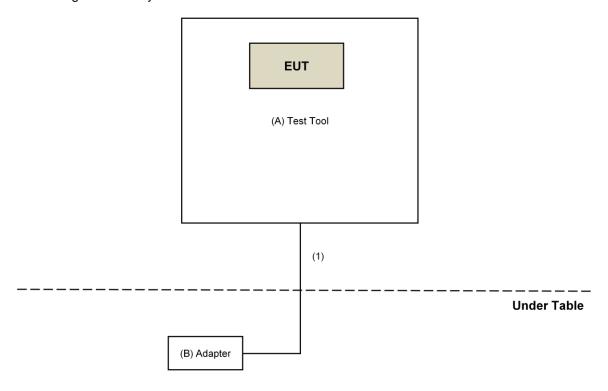
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
Α.	Test Tool	Lantronix	NA	NA	NA	Supplied by client
В.	Adapter	TOP	W050010GPX1 L1	NA	NA	Supplied by client

Note:

^{1.} All power cords of the above support units are non-shielded (1.8m).

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.8	No	0	Supplied by client

3.3.1 Configuration of System under Test



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	ERITAS
3.4 General Description of Applied Standards	
The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with	the
requirements of the following standards:	-
FCC Part 15, Subpart C (15.247)	
KDB 558074 D01 15.247 Meas Guidance v05r02	
ANSI C63.10-2013	
All test items have been performed and recorded as per the above standards.	

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4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequencies (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
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

NOTE:

- 1. The lower limit shall apply at the transition frequencies.
- 2. Emission level $(dBuV/m) = 20 \log Emission level (uV/m)$.
- 3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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4.1.2 Test Instruments

DESCRIPTION &			CALIBRATED	CALIBRATED
MANUFACTURER	MODEL NO.	SERIAL NO.	DATE	UNTIL
Test Receiver	N9038A	MY50010156	July 12, 2018	July 11, 2019
Agilent			, ,	, ,
Pre-Amplifier EMCI	EMC001340	980142	Jan. 25, 2019	Jan. 24, 2020
Loop Antenna Electro-Metrics	EM-6879	269	Sep. 07, 2018	Sep. 06, 2019
RF Cable	NA	LOOPCAB-001	Jan. 14, 2019	Jan. 13, 2020
RF Cable	NA	LOOPCAB-002	Jan. 14, 2019	Jan. 13, 2020
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-05	Apr. 30, 2019	Apr. 29, 2020
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 22, 2018	Nov. 21, 2019
RF Cable	8D	966-3-1	Mar. 18, 2019	Mar. 17, 2020
RF Cable	8D	966-3-2	Mar. 18, 2019	Mar. 17, 2020
RF Cable	8D	966-3-3	Mar. 18, 2019	Mar. 17, 2020
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 27, 2018	Sep. 26, 2019
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 25, 2018	Nov. 24, 2019
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC104-SM-SM-1200	160922	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC104-SM-SM-2000	180601	June 12, 2018	June 11, 2019
RF Cable	EMC104-SM-SM-6000	180602	June 12, 2018	June 11, 2019
Spectrum Analyzer Keysight	N9030A	MY54490679	July 23, 2018	July 22, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 28, 2019	Jan. 27, 2020
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 25, 2018	Nov. 24, 2019
RF Cable	EMC102-KM-KM-1200	160924	Jan. 28, 2019	Jan. 27, 2020
RF Cable	EMC102-KM-KM-1200	160925	Jan. 28, 2019	Jan. 27, 2020
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
Spectrum Analyzer R&S	FSV40	100964	June 20, 2018	June 19, 2019
Power meter Anritsu	ML2495A	1014008	May 13, 2019	May 12, 2020
Power sensor Anritsu	MA2411B	0917122	May 13, 2019	May 12, 2020

Note:

- 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in 966 Chamber No. 3.
- 3. Loop antenna was used for all emissions below 30 MHz.
- 4. Tested Date: June 03, 2019

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4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Both Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is ≥ 1/T (Duty cycle < 98%) or 10Hz (Duty cycle ≥ 98%) for Average detection (AV) at frequency above 1GHz.
- 4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

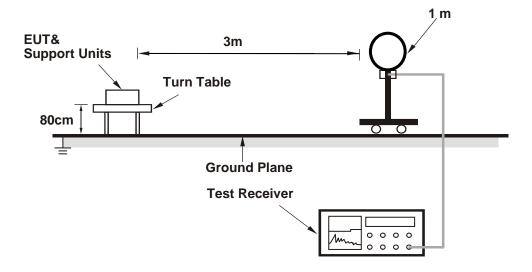
No deviation.

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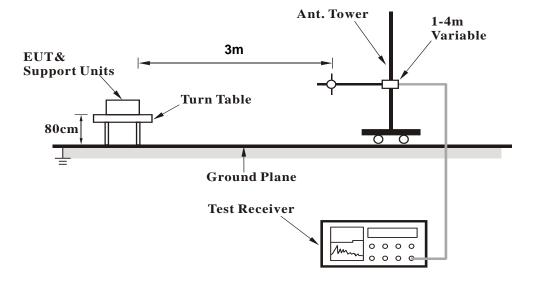


4.1.5 Test Setup

For Radiated emission below 30MHz

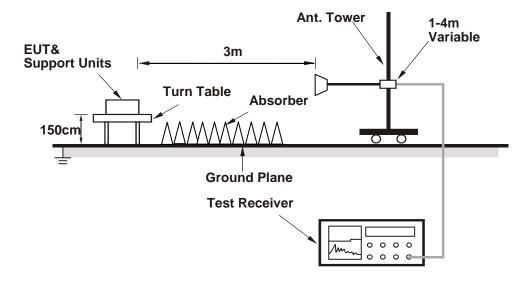


For Radiated emission 30MHz to 1GHz





For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

- a. Placed the EUT on the testing table.
- b. Contorlling software (Tera team paste xPico 250_BT+WiFi SOP.doc command.) has been activated to set the EUT on specific status.



4.1.7 Test Results (Mode 1)

Above 1GHz Data:

BT_GFSK

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	2390.00	56.4 PK	74.0	-17.6	1.09 H	91	58.4	-2.0	
2	2390.00	35.5 AV	54.0	-18.5	1.09 H	91	37.5	-2.0	
3	*2402.00	92.6 PK			1.09 H	91	94.6	-2.0	
4	*2402.00	91.1 AV			1.09 H	91	93.1	-2.0	
5	4804.00	36.6 PK	74.0	-37.4	1.53 H	311	34.3	2.3	
6	4804.00	26.2 AV	54.0	-27.8	1.53 H	311	23.9	2.3	
	·	A NITENINI /	DOL ADITY	O TECT DI	STANCE, V	EDTICAL A	T 2 M		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	57.6 PK	74.0	-16.4	1.14 V	99	59.6	-2.0
2	2390.00	38.0 AV	54.0	-16.0	1.14 V	99	40.0	-2.0
3	*2402.00	97.1 PK			1.14 V	99	99.1	-2.0
4	*2402.00	95.6 AV			1.14 V	99	97.6	-2.0
5	4804.00	40.9 PK	74.0	-33.1	1.96 V	216	38.6	2.3
6	4804.00	26.4 AV	54.0	-27.6	1.96 V	216	24.1	2.3

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2441.00	90.5 PK			1.05 H	87	92.6	-2.1	
2	*2441.00	89.3 AV			1.05 H	87	91.4	-2.1	
3	4882.00	36.2 PK	74.0	-37.8	1.63 H	312	33.9	2.3	
4	4882.00	26.6 AV	54.0	-27.4	1.63 H	312	24.3	2.3	
5	7323.00	44.9 PK	74.0	-29.1	1.82 H	300	36.7	8.2	
6	7323.00	41.3 AV	54.0	-12.7	1.82 H	300	33.1	8.2	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2441.00	96.1 PK			1.44 V	131	98.2	-2.1	
2	*2441.00	95.1 AV			1.44 V	131	97.2	-2.1	
3	4882.00	40.3 PK	74.0	-33.7	2.01 V	215	38.0	2.3	
4	4882.00	26.3 AV	54.0	-27.7	2.01 V	215	24.0	2.3	
5	7323.00	46.3 PK	74.0	-27.7	2.62 V	260	38.1	8.2	
6	7323.00	40.9 AV	54.0	-13.1	2.62 V	260	32.7	8.2	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		•		•		•		
		ANTENNA	POLARITY	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	89.5 PK			1.10 H	78	91.7	-2.2
2	*2480.00	88.4 AV			1.10 H	78	90.6	-2.2
3	2483.50	55.5 PK	74.0	-18.5	1.10 H	78	57.7	-2.2
4	2483.50	51.1 AV	54.0	-2.9	1.10 H	78	53.3	-2.2
5	4960.00	36.9 PK	74.0	-37.1	1.54 H	308	34.4	2.5
6	4960.00	26.7 AV	54.0	-27.3	1.54 H	308	24.2	2.5
7	7440.00	44.6 PK	74.0	-29.4	1.83 H	323	36.2	8.4
8	7440.00	40.9 AV	54.0	-13.1	1.83 H	323	32.5	8.4
		ANTENNA	A POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	95.2 PK			1.45 V	140	97.4	-2.2
2	*2480.00	94.0 AV			1.45 V	140	96.2	-2.2
3	2483.50	65.9 PK	74.0	-8.1	1.45 V	140	68.1	-2.2
4	2483.50	53.0 AV	54.0	-1.0	1.45 V	140	55.2	-2.2
5	4960.00	39.4 PK	74.0	-34.6	2.01 V	225	36.9	2.5
6	4960.00	25.9 AV	54.0	-28.1	2.01 V	225	23.4	2.5
7	7440.00	46.7 PK	74.0	-27.3	2.54 V	288	38.3	8.4
8	7440.00	40.4 AV	54.0	-13.6	2.54 V	288	32.0	8.4

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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Below 1GHz Data:

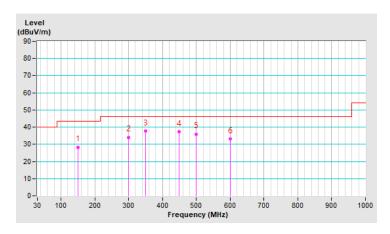
BT_GFSK

CHANNEL	TX Channel 0	DETECTOR	Ougoi Pook (OP)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	149.93	28.4 QP	43.5	-15.1	1.62 H	245	41.0	-12.6		
2	300.29	34.1 QP	46.0	-11.9	2.03 H	145	45.7	-11.6		
3	350.11	37.8 QP	46.0	-8.2	1.36 H	41	48.2	-10.4		
4	449.65	37.4 QP	46.0	-8.6	1.24 H	51	45.5	-8.1		
5	499.92	36.0 QP	46.0	-10.0	1.68 H	230	42.5	-6.5		
6	600.00	33.0 QP	46.0	-13.0	1.70 H	302	37.3	-4.3		

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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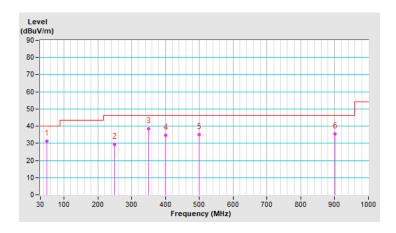
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CHANNEL	TX Channel 0	DETECTOR	Ougai Pagis (OP)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M									
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)		
1	49.85	31.3 QP	40.0	-8.7	1.26 V	223	44.9	-13.6		
2	249.76	29.5 QP	46.0	-16.5	1.51 V	318	42.9	-13.4		
3	350.49	38.6 QP	46.0	-7.4	1.66 V	156	48.9	-10.3		
4	400.20	34.8 QP	46.0	-11.2	1.44 V	315	44.1	-9.3		
5	500.44	35.2 QP	46.0	-10.8	1.54 V	301	41.7	-6.5		
6	901.68	35.6 QP	46.0	-10.4	1.22 V	233	34.8	0.8		

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.





4.1.8 Test Results (Mode 2)

Above 1GHz Data:

BT_GFSK

CHANNEL	TX Channel 0	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	2390.00	54.1 PK	74.0	-19.9	1.09 H	324	56.1	-2.0	
2	2390.00	49.1 AV	54.0	-4.9	1.09 H	324	51.1	-2.0	
3	*2402.00	99.0 PK			1.09 H	324	101.0	-2.0	
4	*2402.00	98.1 AV			1.09 H	324	100.1	-2.0	
5	4804.00	37.0 PK	74.0	-37.0	1.05 H	233	34.7	2.3	
6	4804.00	26.5 AV	54.0	-27.5	1.05 H	233	24.2	2.3	
		ANTENN/	DOL ADITY	& TEST DI	STANCE: V	EDTIC AL A	T 2 M		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	2390.00	50.0 PK	74.0	-24.0	1.00 V	304	52.0	-2.0
2	2390.00	43.7 AV	54.0	-10.3	1.00 V	304	45.7	-2.0
3	*2402.00	92.2 PK			1.00 V	304	94.2	-2.0
4	*2402.00	91.2 AV			1.00 V	304	93.2	-2.0
5	4804.00	36.9 PK	74.0	-37.1	3.85 V	214	34.6	2.3
6	4804.00	26.8 AV	54.0	-27.2	3.85 V	214	24.5	2.3

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 39	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M								
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2441.00	100.1 PK			1.11 H	346	102.2	-2.1	
2	*2441.00	99.2 AV			1.11 H	346	101.3	-2.1	
3	4882.00	37.7 PK	74.0	-36.3	1.03 H	228	35.4	2.3	
4	4882.00	26.7 AV	54.0	-27.3	1.03 H	228	24.4	2.3	
5	7323.00	42.8 PK	74.0	-31.2	1.01 H	208	34.6	8.2	
6	7323.00	35.4 AV	54.0	-18.6	1.01 H	208	27.2	8.2	
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M		
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)	
1	*2441.00	93.0 PK			1.02 V	316	95.1	-2.1	
2	*2441.00	91.9 AV	_		1.02 V	316	94.0	-2.1	
3	4882.00	37.2 PK	74.0	-36.8	3.82 V	213	34.9	2.3	
4	4882.00	27.6 AV	54.0	-26.4	3.82 V	213	25.3	2.3	
5	7323.00	48.2 PK	74.0	-25.8	1.55 V	189	40.0	8.2	
6	7323.00	41.3 AV	54.0	-12.7	1.55 V	189	33.1	8.2	

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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CHANNEL	TX Channel 78	DETECTOR	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz	FUNCTION	Average (AV)

		ANTENNA I	POLARITY 8	& TEST DIS	TANCE: HO	RIZONTAL	AT 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	98.8 PK			1.14 H	341	101.0	-2.2
2	*2480.00	98.8 AV			1.14 H	341	101.0	-2.2
3	2483.50	47.9 PK	74.0	-26.1	1.14 H	341	50.1	-2.2
4	2483.50	36.8 AV	54.0	-17.2	1.14 H	341	39.0	-2.2
5	4960.00	37.2 PK	74.0	-36.8	1.06 H	223	34.7	2.5
6	4960.00	25.6 AV	54.0	-28.4	1.06 H	223	23.1	2.5
7	7440.00	42.8 PK	74.0	-31.2	1.06 H	195	34.4	8.4
8	7440.00	36.0 AV	54.0	-18.0	1.06 H	195	27.6	8.4
		ANTENNA	POLARITY	/ & TEST DI	STANCE: V	ERTICAL A	T 3 M	
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)
1	*2480.00	91.7 PK			1.05 V	299	93.9	-2.2
2	*2480.00	90.4 AV			1.05 V	299	92.6	-2.2
3	2483.50	45.6 PK	74.0	-28.4	1.05 V	299	47.8	-2.2
4	2483.50	34.8 AV	54.0	-19.2	1.05 V	299	37.0	-2.2
5	4960.00	36.3 PK	74.0	-37.7	3.96 V	203	33.8	2.5
6	4960.00	26.6 AV	54.0	-27.4	3.96 V	203	24.1	2.5
7	7440.00	48.1 PK	74.0	-25.9	1.57 V	167	39.7	8.4
8	7440.00	41.3 AV	54.0	-12.7	1.57 V	167	32.9	8.4

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit.
- 5. " * ": Fundamental frequency.

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Below 1GHz Data:

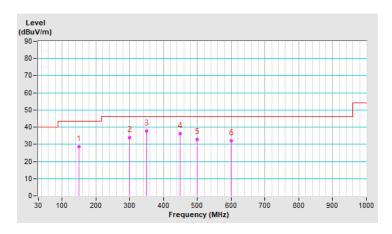
BT_GFSK

CHANNEL	TX Channel 0	DETECTOR	Ougai Back (OD)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M												
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)					
1	149.68	28.6 QP	43.5	-14.9	1.53 H	239	41.2	-12.6					
2	299.80	33.9 QP	46.0	-12.1	2.04 H	145	45.6	-11.7					
3	350.12	37.7 QP	46.0	-8.3	1.32 H	317	48.1	-10.4					
4	449.88	36.2 QP	46.0	-9.8	1.20 H	42	44.3	-8.1					
5	500.19	32.8 QP	46.0	-13.2	1.71 H	238	39.3	-6.5					
6	599.55	32.0 QP	46.0	-14.0	1.58 H	300	36.3	-4.3					

REMARKS:

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



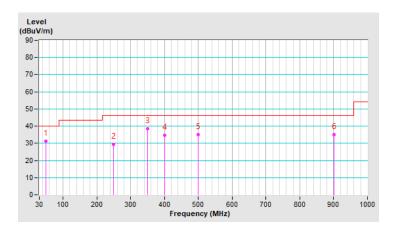
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CHANNEL	TX Channel 0	DETECTOR	Ougai Pagis (OP)
FREQUENCY RANGE	9kHz ~ 1GHz	FUNCTION	Quasi-Peak (QP)

	ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M												
NO.	(MHz) (dBuV/m) (dBuV/m)		MARGIN (dB)	ANTENNA HEIGHT (m)	TABLE ANGLE (Degree)	RAW VALUE (dBuV)	CORRECTION FACTOR (dB/m)						
1	49.99	31.4 QP	40.0	-8.6	1.25 V	224	45.0	-13.6					
2	250.03	29.4 QP	46.0	-16.6	1.57 V	297	42.8	-13.4					
3	350.22	38.4 QP	46.0	-7.6	1.66 V	159	48.8	-10.4					
4	400.37	34.7 QP	46.0	-11.3	1.43 V	296	44.0	-9.3					
5	500.08	35.2 QP	46.0	-10.8	1.54 V	282	41.7	-6.5					
6	901.73	35.0 QP	46.0	-11.0	1.22 V	220	34.2	0.8					

- 1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- 2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) Pre-Amplifier Factor(dB)
- 3. Margin value = Emission Level Limit value
- 4. The other emission levels were very low against the limit of frequency range 30MHz~1000MHz.
- 5. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



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4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Fraguenov (MHz)	Conducted	Limit (dBuV)
Frequency (MHz)	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

DESCRIPTION &	MODEL NO.	SERIAL NO.	CALIBRATED	CALIBRATED
MANUFACTURER	WODEL NO.	SERIAL NO.	DATE	UNTIL
Test Receiver R&S	ESCS 30	847124/029	Oct. 24, 2018	Oct. 23, 2019
Line-Impedance Stabilization Network (for EUT) R&S	ESH3-Z5	848773/004	Oct. 22, 2018	Oct. 21, 2019
Line-Impedance Stabilization Network (for Peripheral) R&S	ESH3-Z5	835239/001	Mar. 17, 2019	Mar. 16, 2020
50 ohms Terminator	N/A	3	Oct. 22, 2018	Oct. 21, 2019
RF Cable	5D-FB	COCCAB-001	Sep. 28, 2018	Sep. 27, 2019
Fixed attenuator EMCI	STI02-2200-10	003	Mar. 14, 2019	Mar. 13, 2020
Software BVADT	BVADT_Cond_ V7.3.7.4	NA	NA	NA

Note:

- 1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
- 2. The test was performed in Conduction 1.
- 3 Tested Date: June 03, 2019

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4.2.3 Test Procedures

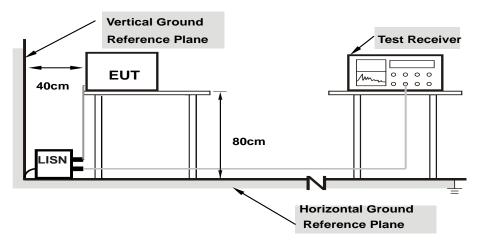
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation From Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Condition

Same as 4.1.6.

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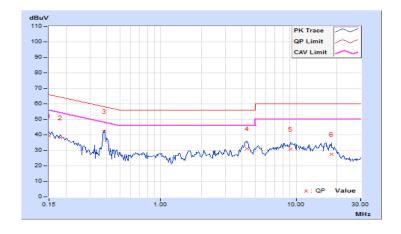
4.2.7 Test Results

Phase Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
----------------	-------------------	-----------------------------------

	Freq.	Corr.	Reading Value		Emissic	Emission Level		Limit		Margin	
No	rieq.	Factor	[dB ((uV)]	[dB (uV)]		[dB (uV)]		(dB)		
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	
1	0.15000	10.03	29.10	14.17	39.13	24.20	66.00	56.00	-26.87	-31.80	
2	0.18125	10.04	27.98	16.14	38.02	26.18	64.43	54.43	-26.41	-28.25	
3	0.38438	10.08	32.09	31.15	42.17	41.23	58.18	48.18	-16.01	-6.95	
4	4.34375	10.34	20.66	13.15	31.00	23.49	56.00	46.00	-25.00	-22.51	
5	9.10156	10.64	20.19	11.81	30.83	22.45	60.00	50.00	-29.17	-27.55	
6	18.33594	11.25	16.07	4.98	27.32	16.23	60.00	50.00	-32.68	-33.77	

REMARKS:

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) /
riiase	inediai (in)	Detector Function	Average (AV)

	Frog	Corr.	Reading Value		Emission Level		Limit		Margin	
No	Freq.	Factor	[dB	(uV)]	[dB (uV)]		[dB (uV)]		(dB)	
	[MHz]	(dB)	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	9.94	29.43	12.38	39.37	22.32	66.00	56.00	-26.63	-33.68
2	0.18125	9.95	27.79	12.32	37.74	22.27	64.43	54.43	-26.69	-32.16
3	0.38047	9.98	25.64	16.78	35.62	26.76	58.27	48.27	-22.65	-21.51
4	0.84141	9.99	7.25	-4.35	17.24	5.64	56.00	46.00	-38.76	-40.36
5	4.36328	10.19	16.12	6.52	26.31	16.71	56.00	46.00	-29.69	-29.29
6	16.78906	10.94	18.31	7.04	29.25	17.98	60.00	50.00	-30.75	-32.02

- 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
- 2. The emission levels of other frequencies were very low against the limit.
- 3. Margin value = Emission level Limit value
- 4. Correction factor = Insertion loss + Cable loss
- 5. Emission Level = Correction Factor + Reading Value.





4.3 Maximum Output Power

4.3.1 Limits of Maximum Output Power Measurement

The Maximum Output Power Measurement is 125mW.

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. The center frequency of the spectrum analyzer is set to the fundamental frequency and using 3MHz RBW and 10 MHz VBW.
- d. Measure the captured power within the band and recording the plot.
- e. Repeat above procedures until all frequencies required were complete.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

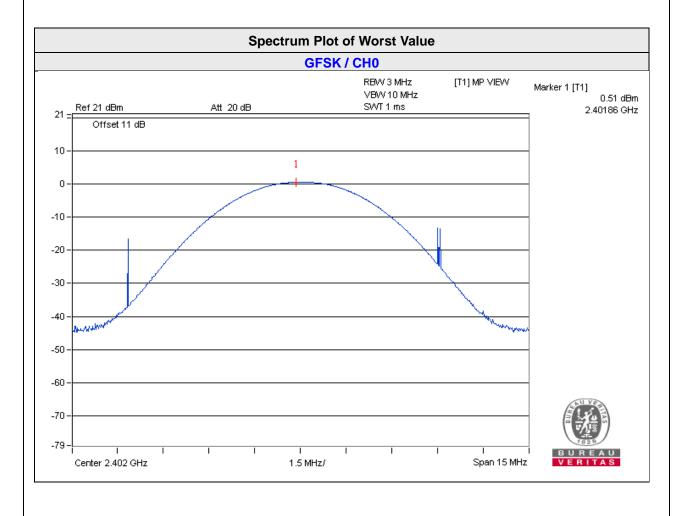
The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

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4.3.7 Test Results

Channel	Frequency (MHZ)	Output Power (mW) GFSK	Output Power (dBm) GFSK	Power Limit (mW)	Pass / Fail
0	2402	1.125	0.51	125	Pass
	2402	1.123	0.31	120	1 033
39	2441	1.089	0.37	125	Pass
78	2480	0.9441	-0.25	125	Pass





5	Pictures of Test Arrangements				
Please refer to the attached file (Test Setup Photo).					



Appendix - Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The address and road map of all our labs can be found in our web site also.

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