



FCC Radio Test Report

FCC ID: 2AO5W-WOOFITGO

This report concerns (c	check one): 🏻 Original	Grant Class I C	Change
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Project No. : 1803C020

Equipment: Bluetooth Speaker

Test Model : WOOFit Go

Series Model : N/A

Applicant: SACKit ApS

Address : Lyngvej 1, 9000 Aalborg, Denmark

Date of Receipt : Mar. 06, 2018

Date of Test : Mar. 08, 2018 ~ Mar. 14, 2018

Issued Date : Mar. 28, 2018
Tested by : BTL Inc.

Testing Engineer :

(Jivey Jiang)

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Report No.: BTL-FCCP-2-1803C020 Page 1 of 71





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Report No.: BTL-FCCP-2-1803C020 Page 2 of 71





Table of Contents	Page
1. CERTIFICATION	6
2 . SUMMARY OF TEST RESULTS	7
2.1 TEST FACILITY	8
2.2 MEASUREMENT UNCERTAINTY	8
3. GENERAL INFORMATION	9
3.1 GENERAL DESCRIPTION OF EUT	9
3.2 DESCRIPTION OF TEST MODES	11
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	11
3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED	12
3.5 DESCRIPTION OF SUPPORT UNITS	12
4 . EMC EMISSION TEST	13
4.1 CONDUCTED EMISSION MEASUREMENT	13
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	13
4.1.2 TEST PROCEDURE 4.1.3 DEVIATION FROM TEST STANDARD	13 13
4.1.4 TEST SETUP	14
4.1.5 EUT OPERATING CONDITIONS	14
4.1.6 EUT TEST CONDITIONS	14
4.1.7 TEST RESULTS	14
4.2 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	15 15
4.2.2 TEST PROCEDURE	16
4.2.3 DEVIATION FROM TEST STANDARD	16
4.2.4 TEST SETUP	17
4.2.5 EUT OPERATING CONDITIONS 4.2.6 EUT TEST CONDITIONS	18
4.2.7 TEST RESULTS (9KHZ TO 30MHZ)	18 18
4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)	18
4.2.9 TEST RESULTS (ABOVE 1000MHZ)	18
5 . BANDWIDTH TEST	19
5.1 APPLIED PROCEDURES / LIMIT	19
5.1.1 TEST PROCEDURE	19
5.1.2 DEVIATION FROM STANDARD 5.1.3 TEST SETUP	19 19
5.1.4 EUT OPERATION CONDITIONS	19
5.1.5 EUT TEST CONDITIONS	19
5.1.6 TEST RESULTS	19

Report No.: BTL-FCCP-2-1803C020





Table of Contents	Page
6 . MAXIMUM OUTPUT POWER TEST	20
6.1 APPLIED PROCEDURES / LIMIT	20
6.1.1 TEST PROCEDURE	20
6.1.2 DEVIATION FROM STANDARD	20
6.1.3 TEST SETUP 6.1.4 EUT OPERATION CONDITIONS	20 20
6.1.5 EUT TEST CONDITIONS	20
6.1.6 TEST RESULTS	20
7. ANTENNA CONDUCTED SPURIOUS EMISSION	21
7.1 APPLIED PROCEDURES / LIMIT	21
7.1.1 TEST PROCEDURE	21
7.1.2 DEVIATION FROM STANDARD 7.1.3 TEST SETUP	21 21
7.1.3 TEST SETUP 7.1.4 EUT OPERATION CONDITIONS	21
7.1.5 EUT OPERATION CONDITIONS	21
7.1.6 TEST RESULTS	21
8 . POWER SPECTRAL DENSITY TEST	22
8.1 APPLIED PROCEDURES / LIMIT	22
8.1.1 TEST PROCEDURE 8.1.2 DEVIATION FROM STANDARD	22 22
8.1.3 TEST SETUP	22 22
8.1.4 EUT OPERATION CONDITIONS	 22
8.1.5 EUT TEST CONDITIONS	22
8.1.6 TEST RESULTS	22
9. MEASUREMENT INSTRUMENTS LIST	23
10 . EUT TEST PHOTO	25
APPENDIX A - CONDUCTED EMISSION	29
APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)	32
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)	37
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)	44
APPENDIX E - BANDWIDTH	57
APPENDIX F - MAXIMUM OUTPUT POWER TEST	60
APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION	62
APPENDIX H - POWER SPECTRAL DENSITY TEST	69

Report No.: BTL-FCCP-2-1803C020





REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1803C020	Original Issue.	Mar. 28, 2018

Report No.: BTL-FCCP-2-1803C020 Page 5 of 71





1. CERTIFICATION

Equipment : Bluetooth Speaker

Brand Name : SACK^{it}
Test Model : WOOFit Go

Series Model: N/A

Applicant : SACKit ApS Manufacturer : SACKit ApS

Address : Lyngvej 1, 9000 Aalborg, Denmark

Factory: #1 Guangzhou Singulargold Electronics Co.Ltd

#2 Dah Dyi Audio Equipment Co., Ltd.

#3 Dongguan Sonic Devices Electronics Co.,Ltd

Address: #1 NO.6 LianhuayanRoad, Sciencepark, guang Zhou, China

#2 Jin San Jiao Ind. Zone, Shi Bu Village, Liao Bu Town, Dong Guan City,

Guang Dong Province, China

#3 No.2 Bldg.Zone 2.Dalingshan science and Technology Industrial Park.

Dongguan, Guangdong, China

Date of Test : Mar. 08, 2018 ~ Mar. 14, 2018

Test Sample: Engineering Sample NO.: D180301912

Standard(s) : FCC Part15, Subpart C (15.247)/ ANSI C63.10-2013

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. BTL-FCCP-2-1803C020) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of NVLAP according to the ISO-17025 quality assessment standard and technical standard(s).

Test results included in this report is only for the LE part.

Report No.: BTL-FCCP-2-1803C020





2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): FCC Part15 (15.247), Subpart C			
Standard(s) Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247(d)	Antenna conducted Spurious Emission	PASS	
15.247(a)(2)	6dB Bandwidth	PASS	
15.247(b)(3)	Peak Output Power	PASS	
15.247(e)	Power Spectral Density	PASS	
15.203	Antenna Requirement	PASS	
15.247(d)/ 15.205/ 15.209	Transmitter Radiated Emissions	PASS	

NOTE:

(1)" N/A" denotes test is not applicable to this device.

Report No.: BTL-FCCP-2-1803C020 Page 7 of 71





2.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

BTL's test firm number for FCC: 854385 BTL's designation number for FCC: CN5020

2.2 MEASUREMENT UNCERTAINTY

The measurement uncertainty figures shall be calculated according the methods described in the ETSI TR 100 028 and shall correspond to an expansion factor (coverage factor) k=1.96 or k=2(which provide confidence levels of respectively 90% and 95.45% in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian)). Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y).

The BTL measurement uncertainty as below table:

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U, (dB)
DG-C02	CISPR	150 KHz ~ 30MHz	2.32

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U, (dB)
		9KHz~30MHz	V	3.79
		9KHz~30MHz	Η	3.57
		30MHz ~ 200MHz	V	3.82
DG-CB03 CI	CISPR	30MHz ~ 200MHz	Ι	3.78
		200MHz ~ 1,000MHz	V	4.10
	CISER	200MHz ~ 1,000MHz	Ι	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Н	4.14

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

Report No.: BTL-FCCP-2-1803C020 Page 8 of 71





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Bluetooth Speaker		
Brand Name	SACK ^{it}		
Test Model	WOOFit Go		
Series Model	N/A		
Model Difference	N/A		
Product Description	Operation Frequency	2402~2480 MHz	
	Modulation Technology	GFSK(1Mbps)	
	Bit Rate of Transmitter		
	Output Power (Max.)	2.75 dBm (1Mbps)	
Power Source	#1 Battery supplied. #2 Suppild from Li-ion Battery		
Power Rating	#1 DC 5V 1A #2 DC 3.7V 950mAh		

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

Report No.: BTL-FCCP-2-1803C020 Page 9 of 71





2. Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	20	2442
01	2404	21	2444
02	2406	22	2446
03	2408	23	2448
04	2410	24	2450
05	2412	25	2452
06	2414	26	2454
07	2416	27	2456
08	2418	28	2458
09	2420	29	2460
10	2422	30	2462
11	2424	31	2464
12	2426	32	2466
13	2428	33	2468
14	2430	34	2470
15	2432	35	2472
16	2434	36	2474
17	2436	37	2476
18	2438	38	2478
19	2440	39	2480

3. Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed	N/A	2.3

Report No.: BTL-FCCP-2-1803C020 Page 10 of 71





3.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	TX Mode NOTE (1)

The EUT system operated these modes were found to be the worst case during the pre-scanning test as following:

For Conducted Test		
Final Test Mode	Description	
Mode 1	TX Mode	

For Radiated Test		
Final Test Mode	Description	
Mode 1	TX Mode NOTE (1)	

Note:

(1) The measurements are performed at the high, middle, low available channels.

3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of BT LE

Test Software Version	AB1500 Family LAB Test Tool		
Frequency (MHz)	2402	2440	2480
BT LE	48	46	46

Report No.: BTL-FCCP-2-1803C020 Page 11 of 71





3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

EUT		

3.5 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.

Item	Equipment	Mfr/Brand	Model/Type No.	FCC ID	Series No.
-	-	-	-	-	-

Item	Shielded Type	Ferrite Core	Length	Note
-	-	-	-	-

Report No.: BTL-FCCP-2-1803C020 Page 12 of 71





4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

4.1.1 POWER LINE CONDUCTED EMISSION LIMITS (Frequency Range 150KHz-30MHz)

Fraguency of Emission (MHz)	Conducted Limit (dBµV)		
Frequency of Emission (MHz)	Quasi-peak	Average	
0.15 -0.5	66 to 56*	56 to 46*	
0.50 -5.0	56	46	
5.0 -30.0	60	50	

Note:

(1) The limit of " * " decreases with the logarithm of the frequency

(2) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use) Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

4.1.2 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d LISN at least 80 cm from nearest part of EUT chassis.
- e For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.1.3 DEVIATION FROM TEST STANDARD

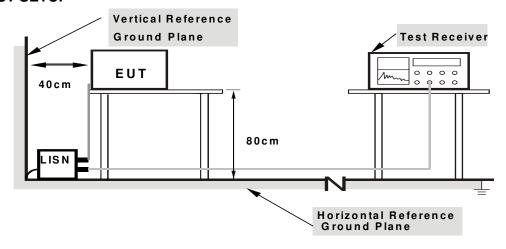
No deviation

Report No.: BTL-FCCP-2-1803C020 Page 13 of 71





4.1.4 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

4.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

4.1.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

4.1.7 TEST RESULTS

Please refer to the Appendix A.

Remark:

- (1) All readings are QP Mode value unless otherwise stated AVG in column of Note. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (2) Measuring frequency range from 150KHz to 30MHz.
- (3) "N/A" denotes test is not applicable to this device.

Report No.: BTL-FCCP-2-1803C020





4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS

In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (9KHz-1000MHz)

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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
960~1000	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Frequency (MHz)	(dBuV/m) (at 3 meters)		
	PEAK	AVERAGE	
Above 1000	74	54	

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).
- (4) The test result calculated as following: Measurement Value = Reading Level + Correct Factor Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use) Margin Level = Measurement Value - Limit Value

Report No.: BTL-FCCP-2-1803C020 Page 15 of 71





Spectrum Parameter	Setting
Attenuation Auto	
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RBW / VBW	RBW 1MHz VBW 3MHz peak detector for Pk value
(Emission in restricted band)	RMS detector for AV value

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9KHz~90KHz for PK/AVG detector
Start ~ Stop Frequency	90KHz~110KHz for QP detector
Start ~ Stop Frequency	110KHz~490KHz for PK/AVG detector
Start ~ Stop Frequency	490KHz~30MHz for QP detector
Start ~ Stop Frequency	30MHz~1000MHz for QP detector

4.2.2 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.3 DEVIATION FROM TEST STANDARD

No deviation

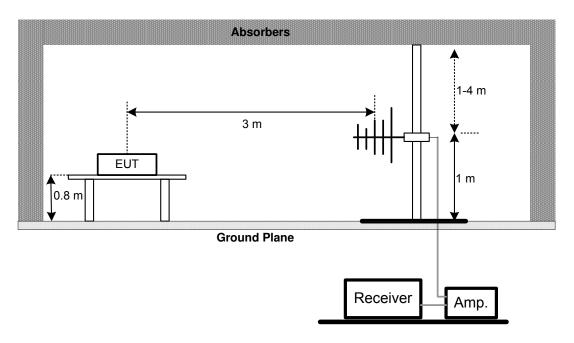
Report No.: BTL-FCCP-2-1803C020 Page 16 of 71



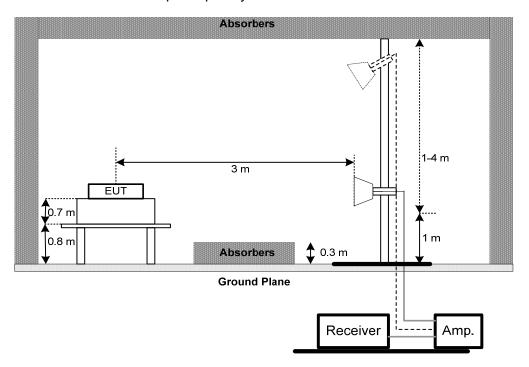


4.2.4 TEST SETUP

(A) Radiated Emission Test Set-Up Frequency Below 1 GHz



(B) Radiated Emission Test Set-Up Frequency Above 1 GHz



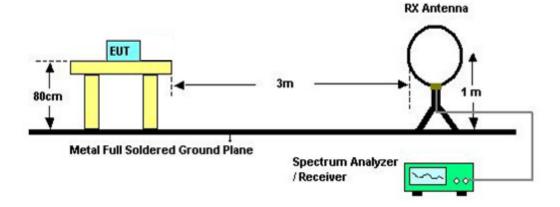
Report No.: BTL-FCCP-2-1803C020 Page 17 of 71





Page 18 of 71

(C) For radiated emissions below 30MHz



4.2.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.2.6 EUT TEST CONDITIONS

Temperature: 22°C Relative Humidity: 56% Test Voltage: AC 120V/60Hz

4.2.7TEST RESULTS (9KHZ TO 30MHZ)

Please refer to the Appendix B

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.
- (2) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
- (3) Limit line = specific limits (dBuV) + distance extrapolation factor.

4.2.8TEST RESULTS (30MHZ TO 1000MHZ)

Please refer to the Appendix C.

4.2.9TEST RESULTS (ABOVE 1000MHZ)

Please refer to the Appendix D.

Remark:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.

Report No.: BTL-FCCP-2-1803C020





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Frequency Range (MHz)	Result		
15.247(a)(2)	Bandwidth	>= 500KHz (6dB bandwidth)	2400-2483.5	PASS

5.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 2.5 ms.

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.1.6 TEST RESULTS

Please refer to the Appendix E.

Report No.: BTL-FCCP-2-1803C020 Page 19 of 71





6. MAXIMUM OUTPUT POWER TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(b)(3)	Maximum Output Power	1 watt or 30dBm	2400-2483.5	PASS	

6.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below,
- b. The maximum peak conducted output power was performed in accordance with method 9.1.2 of FCC KDB 558074 D01 DTS Meas Guidance.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP

EUT	Power Meter
	1 GWGI WIGIGI

6.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

6.1.6 TEST RESULTS

Please refer to the Appendix F.

Report No.: BTL-FCCP-2-1803C020 Page 20 of 71





7. ANTENNA CONDUCTED SPURIOUS EMISSION

7.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated device is operating, the RF power that is produced shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided that the transmitter demonstrates compliance with the peak conducted power limits.

7.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW= 100KHz, VBW=300KHz, Sweep time = 10 ms.
- c. Offset=antenna gain+cable loss

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

7.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 EUT OPERATION CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

7.1.6 TEST RESULTS

Please refer to the Appendix G.

Report No.: BTL-FCCP-2-1803C020 Page 21 of 71





8. POWER SPECTRAL DENSITY TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247(e)	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS	

8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting: RBW=3KHz, VBW=10 KHz, Sweep time = auto.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.1.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

8.1.6 TEST RESULTS

Please refer to the Appendix H.

Report No.: BTL-FCCP-2-1803C020 Page 22 of 71





9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 11, 2019		
2	TWO-LINE V-NETWORK	R&S	ENV216	100526	Mar. 11, 2019		
3	EMI Test Receiver	R&S	ESR3	101862	Aug. 15, 2018		
4	Artificial-Mains Network	SCHWARZBE CK	NSLK 8127	8127685	Aug. 20, 2018		
5	Cable	N/A	RG400 12m	N/A	Mar. 06, 2019		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		

	Radiated Emission Measurement - Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 11, 2019		
2	Amplifier	HP	8447D	2944A09673	Oct. 19, 2018		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018		
4	Cable	emci	LMR-400(30MHz-1 GHz)(8m+5m)	N/A	Jun. 26, 2018		
5	Controller	CT	SC100	N/A	N/A		
6	Controller	MF	MF-7802	MF780208416	N/A		
7	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
8	Antenna	EM	EM-6876-1	230	Feb. 07, 2019		

	Radiated Emission Measurement - Above 1GHz					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 11, 2019	
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018	
3	Amplifier	Agilent	8449B	3008A02274	Mar. 11, 2019	
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 11, 2019	
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018	
6	Antenna	EM	EM-6876-1	230	Feb. 07, 2019	
7	Controller	СТ	SC100	N/A	N/A	
8	Controller	MF	MF-7802	MF780208416	N/A	
9	Cable	emci	EMC104-SM-SM-1 2000(12m)	N/A	Jun. 26, 2018	
10	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A	

Report No.: BTL-FCCP-2-1803C020 Page 23 of 71





6dB Bandwidth Measurement					
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018

Peak Output Power Measurement					
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					
1	Power Meter	ANRITSU	ML2495A	1128009	Mar. 26, 2018
2	Pulse Power Sensor	ANRITSU	MA 2411B	1027500	Mar. 26, 2018

	Antenna Conducted Spurious Emission Measurement					
Item Kind of Equipment Manufacturer Type No. Serial No. Calibrated until					Calibrated until	
1	1 Spectrum Analyzer R&S FSP40 100185 Aug. 20, 2018					

	Power Spectral Density Measurement									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Spectrum Analyzer	R&S	FSP40	100185	Aug. 20, 2018					

Remark: "N/A" denotes no model name, serial no. or calibration specified.

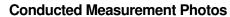
All calibration period of equipment list is one year.

Report No.: BTL-FCCP-2-1803C020 Page 24 of 71





10. EUT TEST PHOTO







Report No.: BTL-FCCP-2-1803C020 Page 25 of 71





Radiated Measurement Photos

9KHz to 30MHz





Report No.: BTL-FCCP-2-1803C020 Page 26 of 71

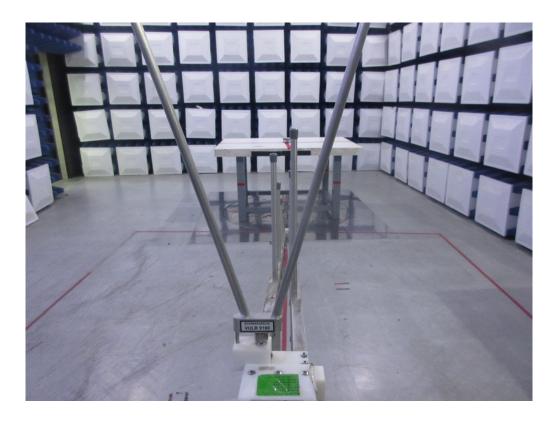




Radiated Measurement Photos

30MHz to 1000MHz





Report No.: BTL-FCCP-2-1803C020 Page 27 of 71

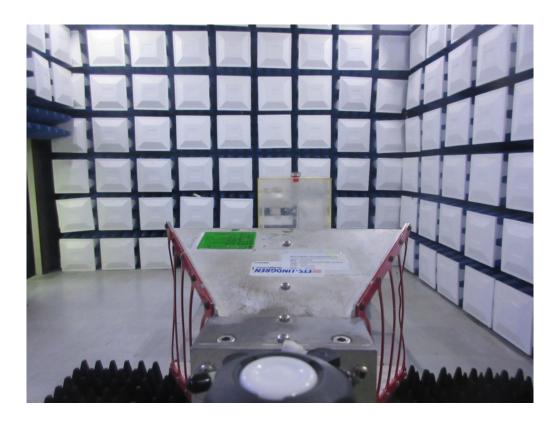




Radiated Measurement Photos

Above 1000MHz





Report No.: BTL-FCCP-2-1803C020 Page 28 of 71





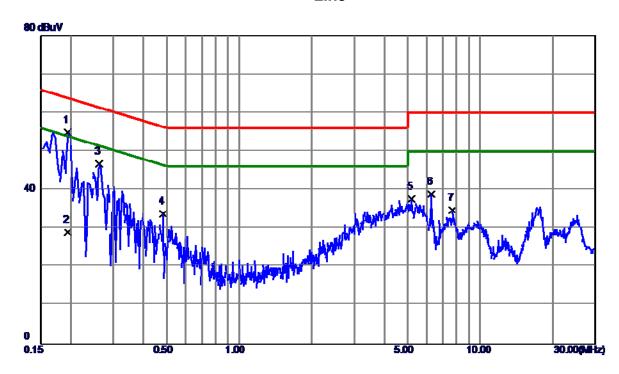
APPENDIX A - CONDUCTED EMISSION

Report No.: BTL-FCCP-2-1803C020 Page 29 of 71





Line



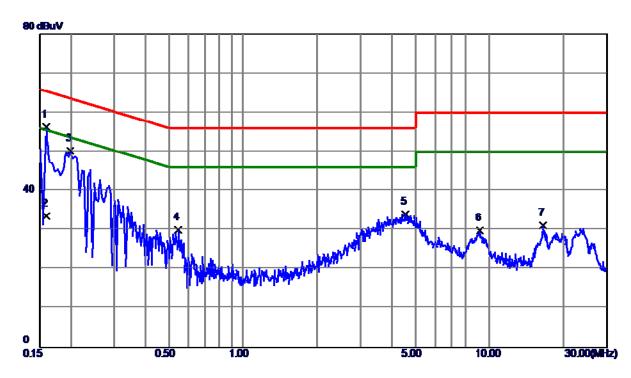
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1949	45. 19	9. 73	54.9 2	63.83	-8. 91	Peak	
2	0. 1949	1 9.29	9. 73	29.0 2	53.83	-24.81	AVG	
3	0. 2625	36.93	9. 72	46.65	61. 35	-14.70	Peak	
4	0. 4830	23.99	9. 76	33 . 7 5	56. 29	-22.54	Peak	
5	5. 1900	27.62	9. 92	37.54	60.00	-22.46	Peak	
6	6. 2745	28.91	9. 96	38. 87	60.00	-21.13	Peak	
7	7. 6605	24.69	10.00	34.69	60.00	-25.31	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 30 of 71





Neutral



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0. 1590	16. 66	9.64	56. 30	65. 52	-9. 22	Pcak	
2	0. 1590	23.90	9.64	33. 54	55. 52	-21.98	AVG	
3	0. 1995	10.61	9.65	50. 29	63. 63	-13.34	Pcak	
4	0.5460	20.35	9. 66	30. 01	56.00	-25.99	Peak	
5	1.5555	24. 29	9.83	34. 12	56.00	-21.88	Pcak	
6	9. 1230	19. 99	9. 99	29. 98	60.00	-30.02	Peak	
7	16. 1760	20.86	10.36	31. 22	60.00	-28.78	Pcak	

Report No.: BTL-FCCP-2-1803C020 Page 31 of 71





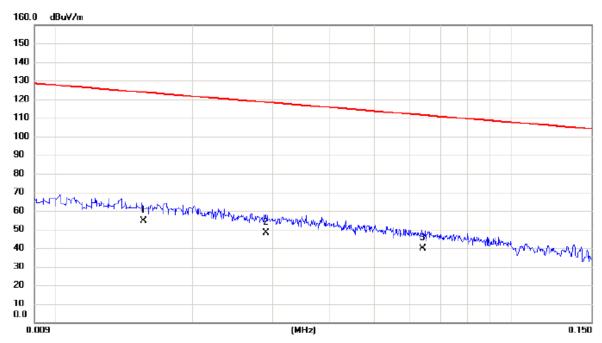
APPENDIX B - RAI	DIATED EMISSION (9KHZ TO 30MHZ)

Report No.: BTL-FCCP-2-1803C020 Page 32 of 71





Ant 0°



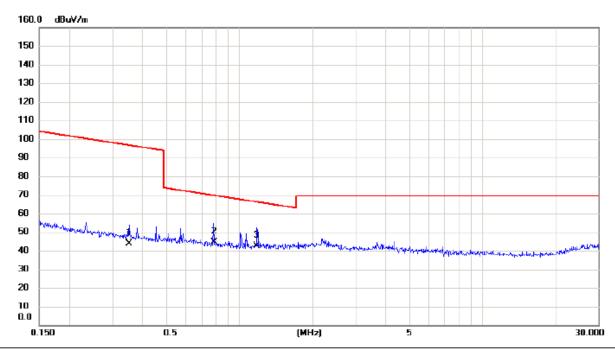
No. Mk.	Freq.		Correct Factor	Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1 *	0.0156	34.27	20.19	54.46	123.74	-69.28	AVG		
2	0.0290	28.86	19.35	48.21	118.36	-70.15	AVG		
3	0.0638	21.33	18.45	39.78	111.51	-71.73	AVG		

Report No.: BTL-FCCP-2-1803C020 Page 33 of 71





Ant 0°



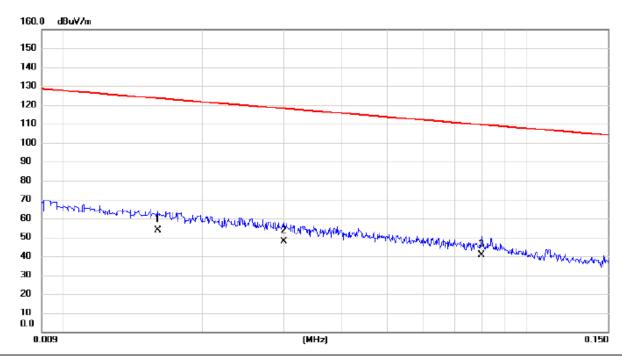
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.3502	27.12	16.58	43.70	96.72	-53.02	AVG	
2	0.7835	28.36	16.14	44.50	69.72	-25.22	QP	
3 *	1.1781	26.87	15.82	42.69	66.18	-23.49	QP	

Report No.: BTL-FCCP-2-1803C020 Page 34 of 71





Ant 90°



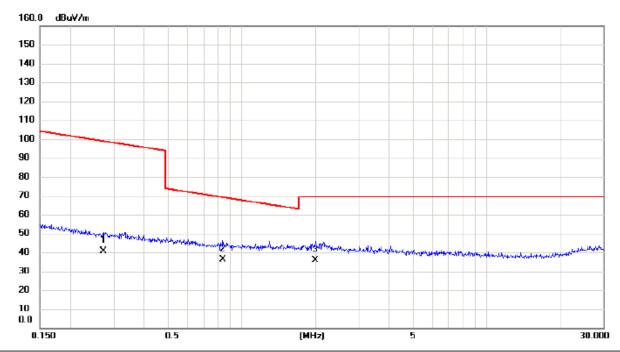
No. Mk.	Freq.			Measure- ment		Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	0.0160	33.50	20.14	53.64	123.52	-69.88	AVG		
2	0.0300	28.41	19.32	47.73	118.06	-70.33	AVG		
3 *	0.0801	22.65	18.11	40.76	109.53	-68.77	AVG		

Report No.: BTL-FCCP-2-1803C020 Page 35 of 71





Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin			
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1	0.2730	24.13	16.64	40.77	98.88	-58.11	AVG		
2 *	0.8350	20.18	16.08	36.26	69.17	-32.91	QP		
3	2.0011	20.17	15.51	35.68	69.54	-33.86	QP		

Report No.: BTL-FCCP-2-1803C020 Page 36 of 71





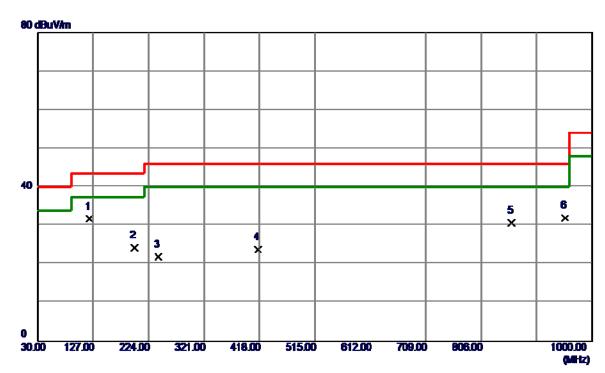
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL-FCCP-2-1803C020 Page 37 of 71





Vertical



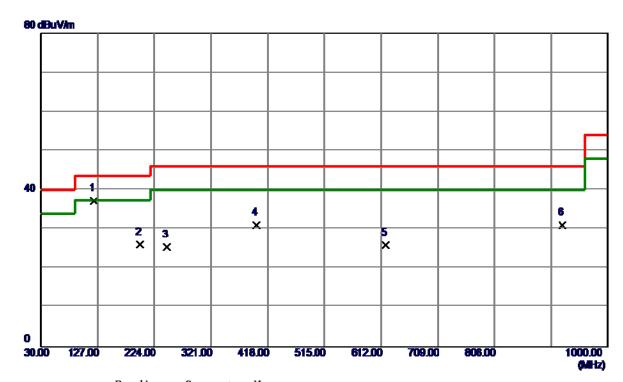
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	120. 2100	47. 14	-15.38	31. 76	43.50	-11.74	Peak	
2	198.7800	37. 89	-13.64	24. 25	43.50	-19. 25	Peak	
3	241.4600	36. 39	-14.44	21. 95	46.00	-24. 05	Peak	
4	416.0600	34. 67	-10.90	23. 77	46.00	-22. 23	Peak	
5	859.3500	30. 46	0.19	30. 65	46.00	-15. 35	Peak	
6	952.4700	29. 95	2.04	31. 99	46.00	-14. 0 1	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 38 of 71





Horizontal



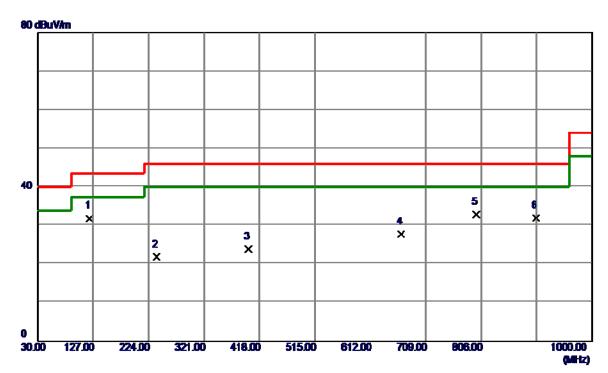
No. Freq. Level Factor ment Limit	
MHz dBuV/m dB dBuV/m dBuV/m	dB Detector Comment
1 * 120. 2100 52. 60 -15. 38 37. 22 43. 50	-6.28 Peak
2 198. 7800 39. 77 -13. 64 26. 13 43. 50	-17.37 Peak
3 245. 3400 40. 11 -14. 64 25. 47 46. 00	-20. 53 Peak
4 398. 6000 42. 35 -11. 38 30. 97 46. 00	-15.03 Peak
5 619.7600 32.04 -6.05 25.99 46.00	-20.01 Peak
6 922. 4000 29. 61 1. 46 31. 07 46. 00	-14.93 Peak

Report No.: BTL-FCCP-2-1803C020 Page 39 of 71





Vertical



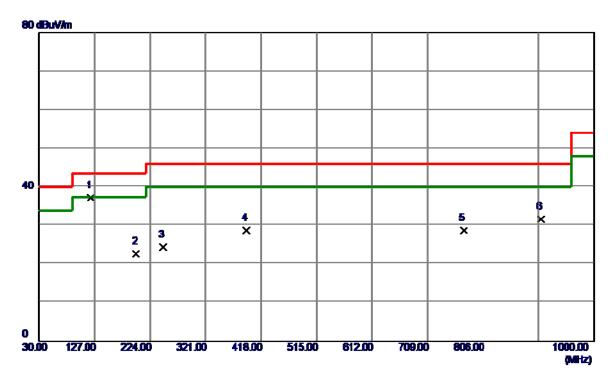
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	120. 2100	47. 30	-15.38	31. 92	43.50	-11. 58	Peak	
2	237.5800	36. 28	-14.30	21. 98	46.00	-24. 02	Peak	
3	398.6000	35. 38	-11. 38	24.00	46.00	-22. 00	Peak	
4	666. 3200	32. 83	-4. 97	27.86	46.00	-18. 14	Peak	
5	797.2700	34. 32	-1.42	32. 90	46.00	-13. 10	Peak	
6	902.0300	30. 96	1.07	32. 03	46.00	-13. 97	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 40 of 71





Horizontal



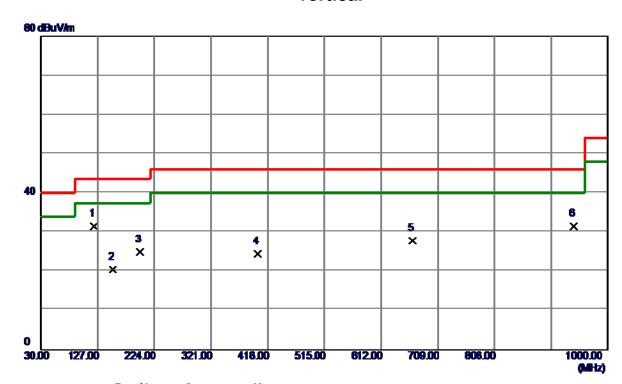
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	120. 2100	52. 70	-15.38	37. 32	43.50	-6. 18	Peak	
2	1 99. 75 00	36. 43	-13.73	22.70	43.50	-20.80	Peak	
3	246. 3100	39. 17	-14.69	24.48	46.00	-21.52	Peak	
4	391. 8100	40. 21	-11.46	28.75	46.00	-17. 25	Peak	
5	772. 0500	30.80	-1.97	28. 83	46.00	-17. 17	Peak	
6	906. 8800	30. 52	1. 16	31.68	46.00	-14. 32	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 41 of 71





Vertical



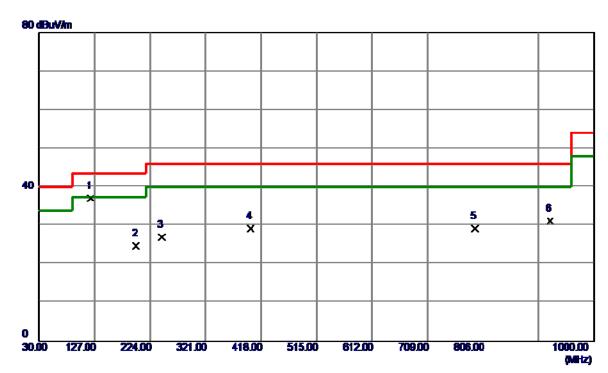
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	120. 2100	46. 93	-15. 38	31. 55	43. 50	-11. 95	Peak	
2	153. 1900	33.85	-13. 34	20. 51	43.50	-22.99	Peak	
3	198. 7800	38.64	-13.64	25.00	43.50	-18. 50	Peak	
4	400. 5400	35. 75	-11. 34	24.41	46.00	-21. 59	Peak	
5	666. 3200	32.85	-4. 97	27.88	46.00	-18. 12	Peak	
6	941. 8000	29. 67	1.84	31. 51	46.00	-14. 49	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 42 of 71





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MIIz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	120. 2100	52. 53	-15.38	37. 15	43.50	-6.35	Peak	
2	199. 7500	38. 53	-13.73	24.80	43.50	-18. 70	Peak	
3	244. 3700	41.63	-14.59	27.04	46.00	-18. 96	Peak	
4	399. 5700	40.71	-11.37	29. 34	46.00	-16. 66	Peak	
5	791. 4500	30. 85	-1.55	29. 30	46.00	-16. 70	Peak	
6	923. 3700	29. 74	1. 48	31. 22	46.00	-14. 78	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 43 of 71





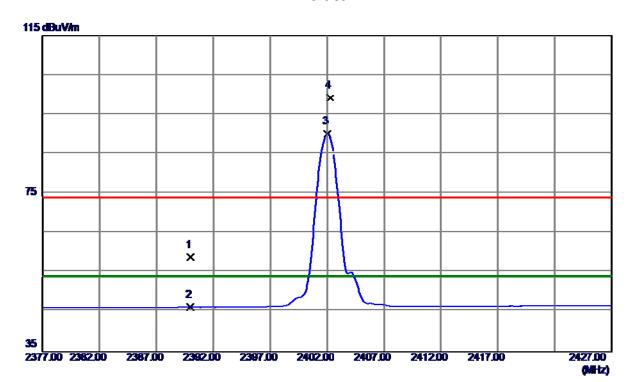
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL-FCCP-2-1803C020 Page 44 of 71





Vertical



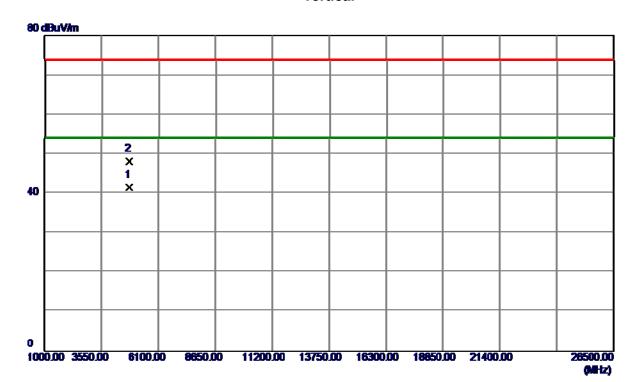
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390.0000	25. 75	33.06	58.81	74.00	-15.19	Peak	
2	2390. 0000	13. 08	33.06	46.14	54.00	-7.86	AVG	
3 *	2402. 0000	57. 00	33. 10	90.10	54.00	36. 10	AVG	No Limit
4	2402. 2500	66. 09	33. 10	99. 19	74.00	25. 19	Peak	No Limit

Report No.: BTL-FCCP-2-1803C020 Page 45 of 71





Vertical



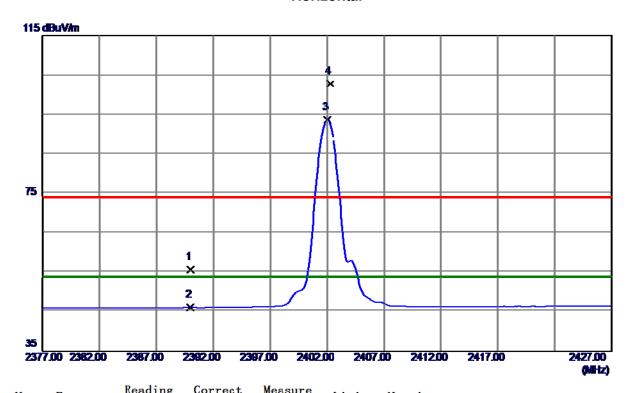
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4803.7599	35. 04	6. 59	41.63	54.00	-12.37	AVG	
2	4804. 2200	41.62	6. 59	48. 21	74.00	-25. 79	Peak	

Report No.: BTL-FCCP-2-1803C020





Horizontal



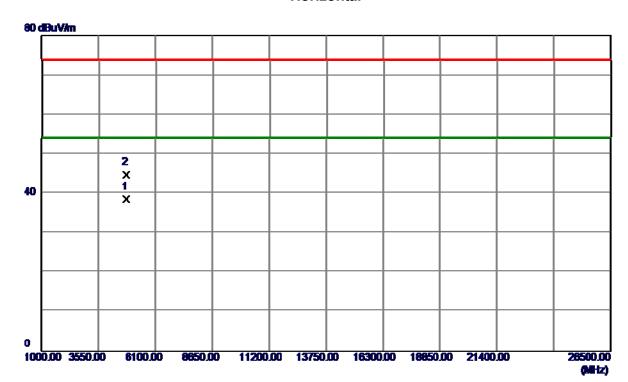
No.	Freq.	Level	Factor	measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2390. 0000	22.72	33.06	55.78	74.00	-18. 22	Peak	
2	2390. 0000	13. 10	33.06	46. 16	54.00	-7.84	AVG	
3 *	2402. 0000	60.70	33. 10	93.80	54.00	39.80	AVG	No Limit
4	2402. 2500	69.78	33. 10	102.88	74.00	28.88	Peak	No Limit

Report No.: BTL-FCCP-2-1803C020 Page 47 of 71





Horizontal



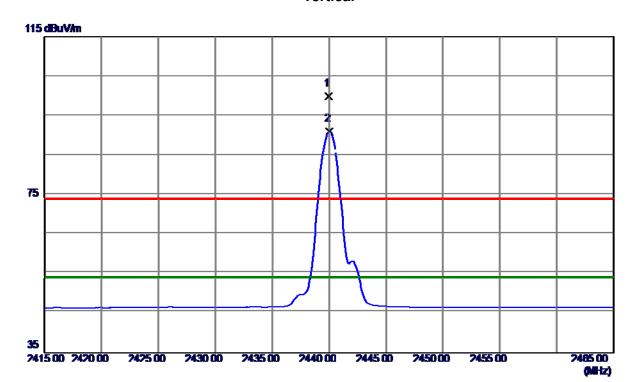
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4805. 9800	31. 95	6. 59	38.54	54.00	-15. 46	AVG	
2	4806. 1400	38. 14	6. 59	44.73	74.00	-29. 27	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 48 of 71





Vertical



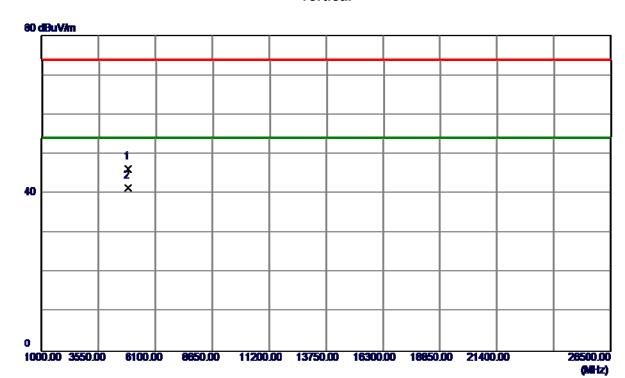
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.9500	66. 68	33. 24	99.92	74.00	25. 92	Peak	No Limit
2 *	2440. 0000	57. 75	33. 24	90.99	54.00	36. 99	AVG	No Limit
2 *	2440. 0000	57. 75	33. 24	90.99	54.00	36. 99	AVG	No Limi

Report No.: BTL-FCCP-2-1803C020 Page 49 of 71





Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4881. 9400	39. 38	6. 87	46.25	74.00	-27.75	Peak	
2 *	4881. 9600	34. 61	6. 87	41.48	54.00	-12. 52	AVG	

Report No.: BTL-FCCP-2-1803C020 Page 50 of 71

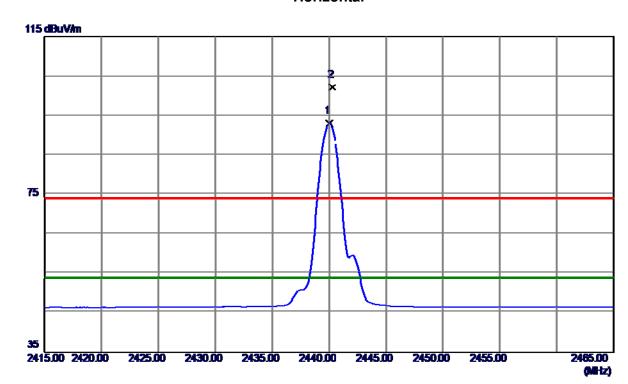




Page 51 of 71

Test Mode: TX 2440MHz _CH19_1Mbps

Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
N	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 * 2	2440. 0000	59.88	33. 24	93.12	54.00	39. 12	AVG	No Limit
2 2	2440. 3000	68. 98	33. 25	102. 23	74.00	28. 23	Peak	No Limit

Report No.: BTL-FCCP-2-1803C020





Horizontal



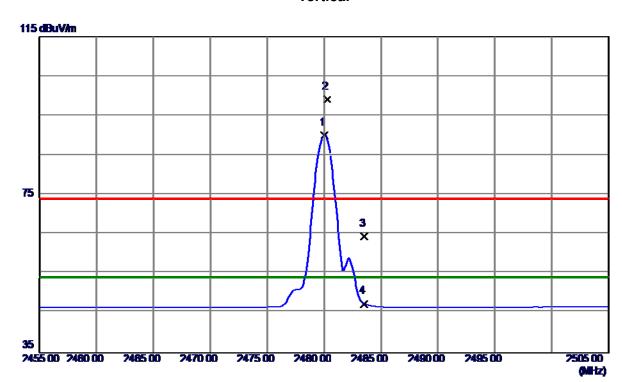
No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4879. 5600	40. 23	6.86	47.09	74.00	-26.91	Peak	
2 *	4879. 8400	32. 64	6. 86	39. 50	54.00	-14.50	AVG	

Report No.: BTL-FCCP-2-1803C020 Page 52 of 71





Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2480.0000	56. 68	33. 39	90.07	54.00	36. 07	AVG	No Limit
2	2480. 2500	65. 78	33.40	99. 18	74.00	25. 18	Peak	No Limit
3	2483. 5000	30. 99	33.41	64.40	74.00	-9. 60	Peak	
4	2483. 5000	13. 99	33. 41	47.40	54.00	-6. 60	AVG	

Report No.: BTL-FCCP-2-1803C020 Page 53 of 71





Vertical



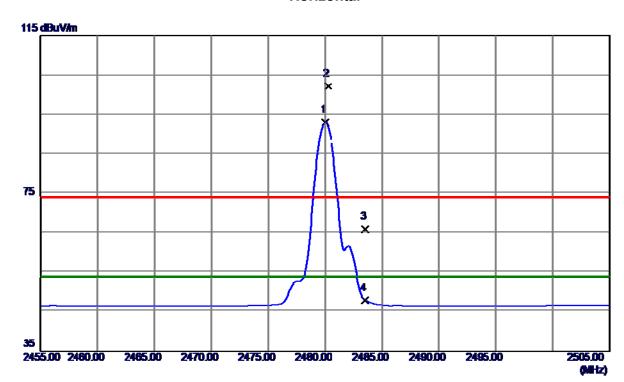
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4962.0000	36. 63	7. 15	43.78	54.00	-10. 22	AVG	
2	4962. 0400	40. 48	7. 15	47.63	74.00	-26. 37	Peak	

Report No.: BTL-FCCP-2-1803C020





Horizontal



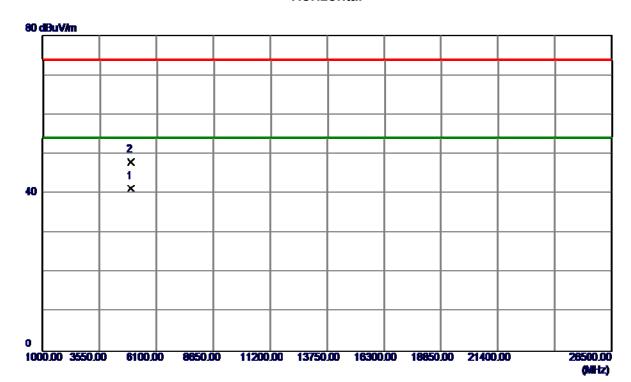
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	2480.0000	59. 77	33. 39	93. 16	54.00	39. 16	AVG	No Limit
2	2480. 2500	68. 80	33. 40	102. 20	74.00	28. 20	Peak	No Limit
3	2483. 5000	32. 61	33. 41	66.02	74.00	-7. 98	Peak	
4	2483. 5000	14. 55	33. 41	47.96	54.00	-6. 04	AVG	

Report No.: BTL-FCCP-2-1803C020 Page 55 of 71





Horizontal



No.	Freq.	Keading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4960.0200	34. 13	7. 15	41.28	54.00	-12.72	AVG	
2	4960. 3200	40. 91	7. 15	48.06	74.00	-25. 94	Peak	

Report No.: BTL-FCCP-2-1803C020 Page 56 of 71





APPENDIX E - BANDWIDTH

Report No.: BTL-FCCP-2-1803C020 Page 57 of 71

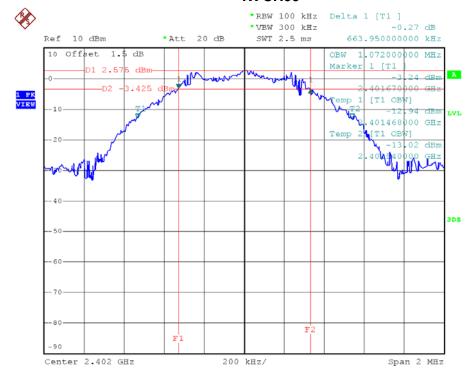




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.664	1.072	500	Pass
2440	0.668	1.072	500	Pass
2480	0.659	1.076	500	Pass

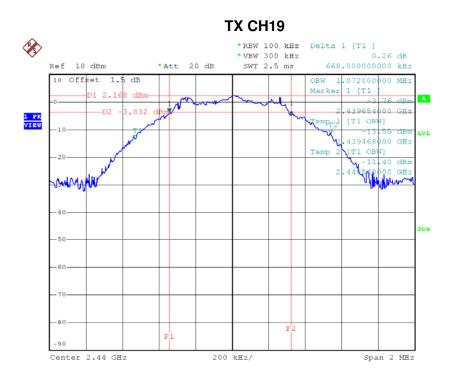
TX CH00



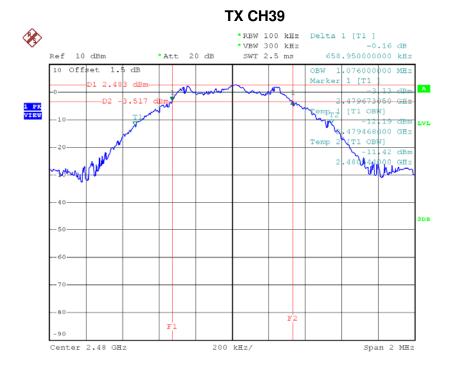
Date: 14.MAR.2018 15:22:13







Date: 14.MAR.2018 15:30:19



Date: 14.MAR.2018 15:32:15





APPENDIX F - MAXIMUM OUTPUT POWER TEST

Report No.: BTL-FCCP-2-1803C020 Page 60 of 71





Frequency	Conducted	Conducted	Max. Limit	Max. Limit	Toot Dooult
(MHz)	Power (dBm)	Power (W)	(dBm)	(W)	Test Result
2402	2.74	0.0019	30.00	1.00	Pass
2440	2.38	0.0017	30.00	1.00	Pass
2480	2.75	0.0019	30.00	1.00	Pass

Report No.: BTL-FCCP-2-1803C020 Page 61 of 71



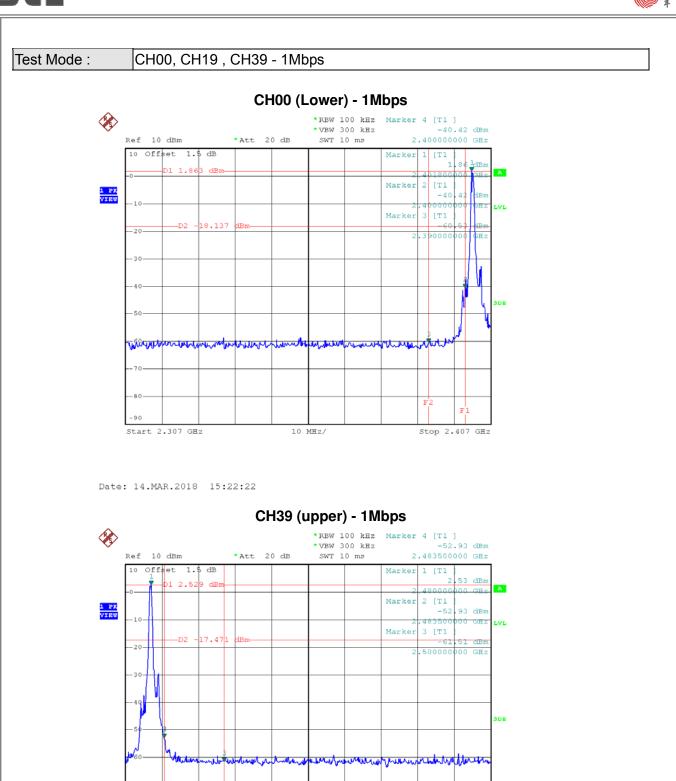


APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION

Report No.: BTL-FCCP-2-1803C020 Page 62 of 71







10 MHz/

Date: 14.MAR.2018 15:32:24

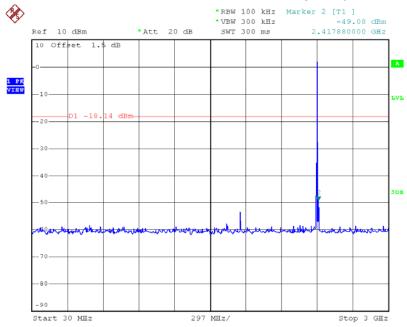
Start 2.473 GHz

Stop 2.573 GHz



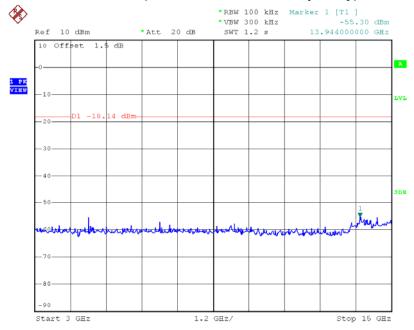






Date: 14.MAR.2018 15:22:36

CH00 (10 Harmonic of the frequency) 2

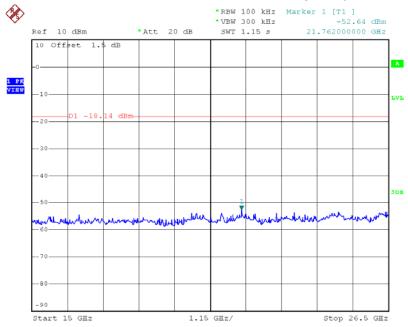


Date: 14.MAR.2018 15:22:46



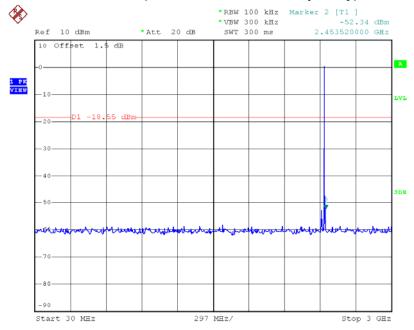






Date: 14.MAR.2018 15:22:55

CH19 (10 Harmonic of the frequency) 1

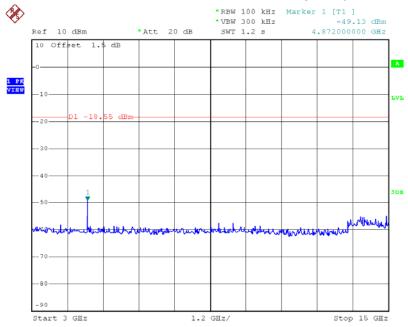


Date: 14.MAR.2018 15:30:43



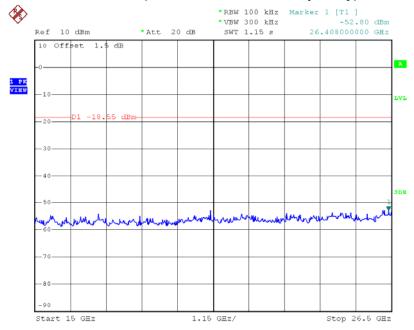






Date: 14.MAR.2018 15:30:52

CH19 (10 Harmonic of the frequency) 3

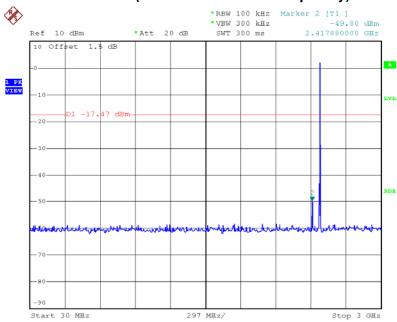


Date: 14.MAR.2018 15:31:01



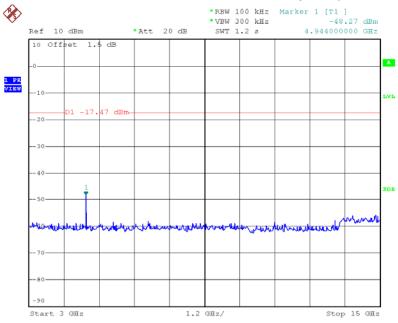






Date: 14.MAR.2018 15:32:39

CH39 (10 Harmonic of the frequency) 2

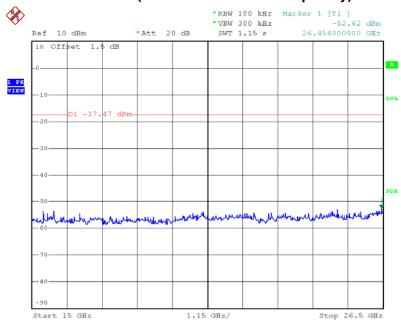


Date: 14.MAR.2018 15:32:49









Date: 14.MAR.2018 15:32:58





APPENDIX H - POWER SPECTRAL DENSITY TEST					

Report No.: BTL-FCCP-2-1803C020 Page 69 of 71

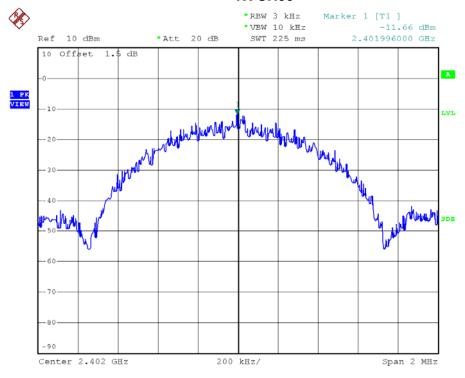




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	-11.66	0.068	8.00	Pass
2440	-12.33	0.058	8.00	Pass
2480	-12.18	0.061	8.00	Pass

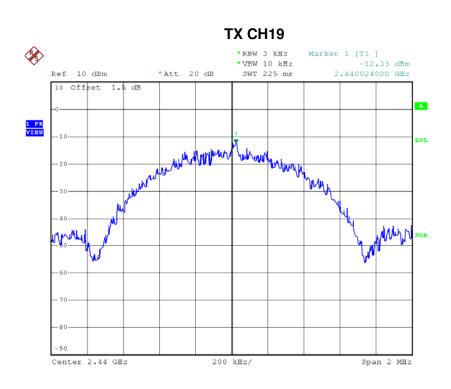
TX CH00



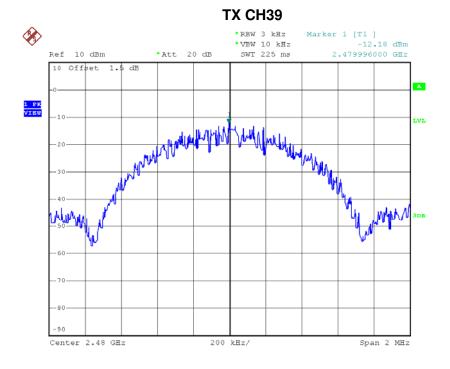
Date: 14.MAR.2018 15:23:02







Date: 14.MAR.2018 15:31:08



Date: 14.MAR.2018 15:33:05