



FCC Radio Test Report

FCC ID: KA2CS8010LHA1

This repo	rt concerns (ch	neck one): ⊠Original Grant
	Project No.	: 1710C185
	Equipment	: HD Wi-Fi Camera
	Test Model	• DCS-936I

Test Model : DCS-936L
Series Model : DCS-8010LH
Applicant : D-Link Corporation

Address : 17595 Mt. Herrmann, Fountain Valley, California,

United States 92708

Date of Receipt : Oct.19, 2017

Date of Test : Oct.19, 2017 ~ Jan. 26, 2018

Issued Date : Feb. 26, 2018
Tested by : BTL Inc.

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TESTING
NVLAP LAB CODE 200788-0

Report No.: BTL- FCCP-2-1710C185 Page 1 of 71





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Report No.: BTL- FCCP-2-1710C185 Page 2 of 71





Table of Contents P	age
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 TESTER	
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	15
4.2.1 RADIATED EMISSION LIMITS 4.2.2 TEST PROCEDURE	15 16
4.2.3 DEVIATION FROM TEST STANDARD	16
4.2.4 TEST SETUP	17
4.2.5 EUT OPERATING CONDITIONS	18
4.2.6 EUT TEST CONDITIONS	18
4.2.7 TEST RESULTS (9KHZ TO 30MHZ) 4.2.8 TEST RESULTS (30MHZ TO 1000MHZ)	18 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	19
5.1.3 TEST SETUP 5.1.4 EUT OPERATION CONDITIONS	19 19
5.1.5 EUT TEST CONDITIONS	19
5.1.6 TEST RESULTS	19
6 . MAXIMUM OUTPUT POWER TEST	20





Table of Contents	Page
6.1 APPLIED PROCEDURES / LIMIT 6.1.1 TEST PROCEDURE	20 20
6.1.2 DEVIATION FROM STANDARD	20
6.1.3 TEST SETUP	20
6.1.4 EUT OPERATION CONDITIONS	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
7.1.4 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	22
8.1.2 DEVIATION FROM STANDARD	22
8.1.3 TEST SETUP 8.1.4 EUT OPERATION CONDITIONS	22 22
8.1.5 EUT TEST CONDITIONS	22 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 ISSUED HISTORY

Issued No.	Description	Issued Date
BTL-FCCP-2-1710C185	Original Issue.	Feb. 26, 2018

Report No.: BTL- FCCP-2-1710C185 Page 5 of 71





1. CERTIFICATION

Equipment : HD Wi-Fi Camera

Brand Name: D-LINK
Test Model: DCS-936L
Series Model: DCS-8010LH
Applicant: D-LINK Corporation
Manufacturer: D-LINK Corporation

Address : 17595 Mt. Herrmann, Fountain Valley, California, United States 92708

Date of Test : Oct. 26, 2017 ~ Jan. 24, 2018

Test Sample: Engineering Sample

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-2-1710C185) 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).





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.





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	Ι	3.57
		30MHz ~ 200MHz	V	3.82
	CISPR -	30MHz ~ 200MHz	Ι	3.78
DG-CB03		200MHz ~ 1,000MHz	V	4.10
DG-CB03		200MHz ~ 1,000MHz	Ι	4.06
		1GHz~18GHz	V	3.12
		1GHz~18GHz	Ι	3.68
		18GHz~40GHz	V	4.15
		18GHz~40GHz	Ι	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-2-1710C185 Page 8 of 71





3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	HD Wi-Fi Camera		
Brand Name	D-LINK		
Test Model	DCS-936L		
Series Model	DCS-8010LH		
Model Difference	Only differ in product appearance color.		
	Operation Frequency	2402~2480 MHz	
Product Description	Modulation Technology	GFSK(1Mbps)	
r roddor Boodilpilon	Bit Rate of Transmitter	ar or(mops)	
	Output Power (Max.)	4.56 dBm (1Mbps)	
Power Source	DC voltage supplied from AC/DC adapter. Model: F06W-050120SPACP		
Power Rating	I/P: 100-240V~50/60Hz 0.2A O/P: 5V === 1.2A		

Note:

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

Report No.: BTL- FCCP-2-1710C185 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	PCB	N/A	3.22





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

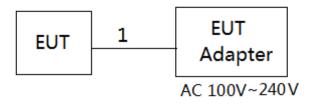
Test Software Version		cmd	
Frequency (MHz)	2402	2440	2480
BT LE	7,4	7,4	7,4

Report No.: BTL- FCCP-2-1710C185 Page 11 of 71





3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



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.
-	-	-	-	-	-

Iten	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.5m	DC Cable

Report No.: BTL- FCCP-2-1710C185 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)

Frequency of Emission (MHz)	Conducted Li	mit (dBµV)
	Quasi-peak	Average
0.15 -0.5	66 to 56*	56 to 46*
0.50 -5.0	56	46
5.0 -30.0	50	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.

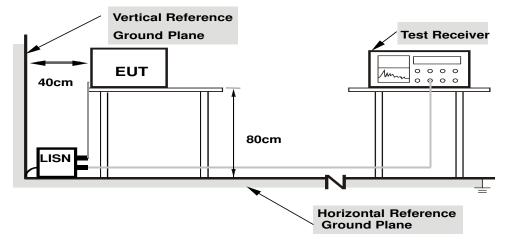
4.1.3 DEVIATION FROM TEST STANDARD

No deviation





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.





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)		
Frequency (MHZ)	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





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

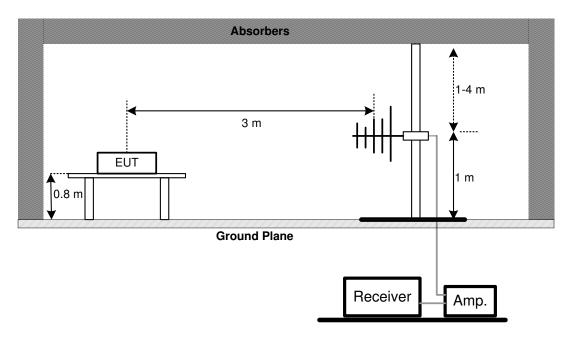
Report No.: BTL- FCCP-2-1710C185 Page 16 of 71



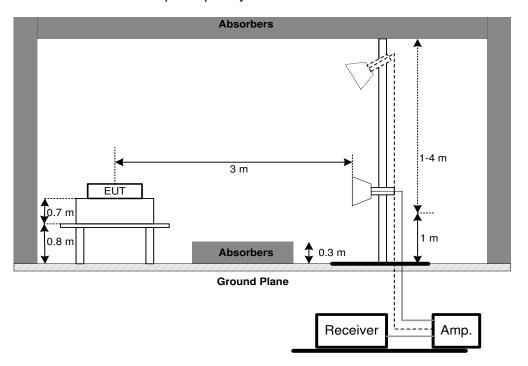


4.2.4 TEST SETUP

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



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

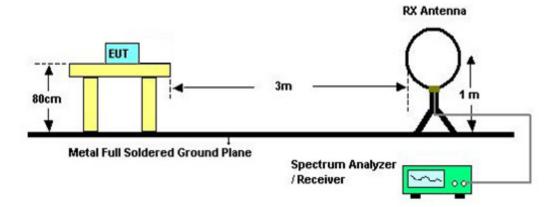


Report No.: BTL- FCCP-2-1710C185 Page 17 of 71





(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-2-1710C185 Page 18 of 71





5. BANDWIDTH TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247), Subpart C				
Section Test Item Limit 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-2-1710C185 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 OWEL WICKE

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-2-1710C185 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.

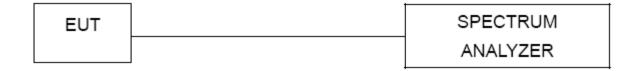
7.1.1 TEST PROCEDURE

- 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



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-2-1710C185 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-2-1710C185 Page 22 of 71





9. MEASUREMENT INSTRUMENTS LIST

	Conducted Emission Measurement						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 26, 2018		
2	LISN	EMCO	3816/2	52765	Mar. 26, 2018		
3	50Ω Terminator	SHX	TF2-3G-A	8122901	Mar. 26, 2018		
4	TWO-LINE V-NETWORK	R&S	ENV216	101447	Mar. 26, 2018		
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
6	Cable	N/A	RG223	12m	Oct. 19, 2018		

	Radiated Emission Measurement - Below 1GHz						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarbeck	VULB9160	9160-3232	Mar. 26, 2018		
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	Mar. 06, 2018		

Report No.: BTL- FCCP-2-1710C185 Page 23 of 71





	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. 26, 2018		
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 08, 2018		
3	Amplifier	Agilent	8449B	3008A02274	May. 16, 2018		
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 26, 2018		
5	Receiver	Agilent	N9038A	MY52130039	Aug. 20, 2018		
6	Antenna	EM	EM-6876-1	230	Mar. 06, 2018		
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		

	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	
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.

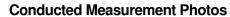
All calibration period of equipment list is one year.

Report No.: BTL- FCCP-2-1710C185 Page 24 of 71





10. EUT TEST PHOTO







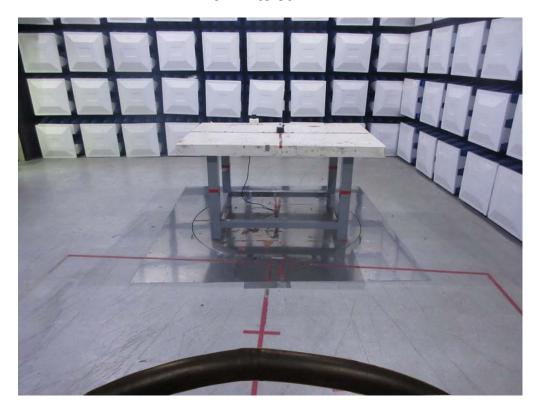
Report No.: BTL- FCCP-2-1710C185 Page 25 of 71





Radiated Measurement Photos

9KHz to 30MHz





Report No.: BTL- FCCP-2-1710C185 Page 26 of 71

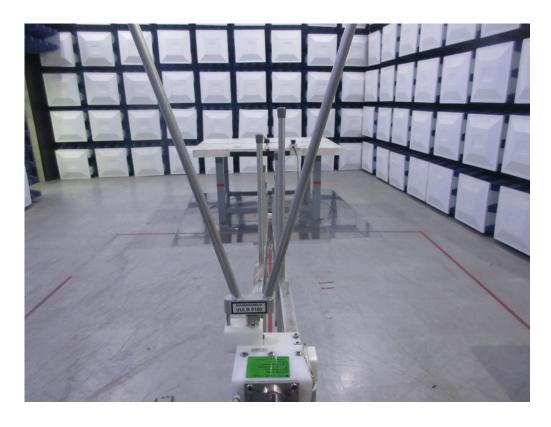




Radiated Measurement Photos

30MHz to 1000MHz





Report No.: BTL- FCCP-2-1710C185 Page 27 of 71





Radiated Measurement Photos

Above 1000MHz









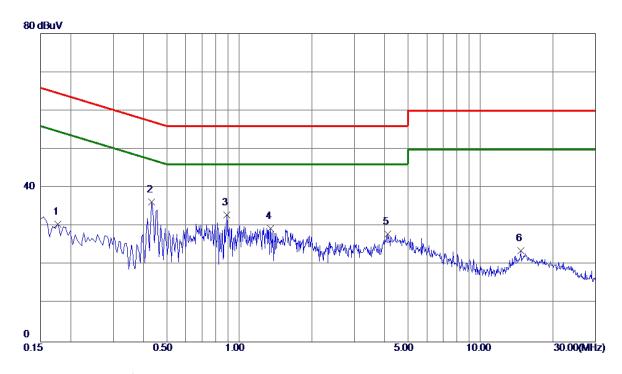
APPENDIX A - CONDUCTED EMISSION

Report No.: BTL- FCCP-2-1710C185 Page 29 of 71





Line



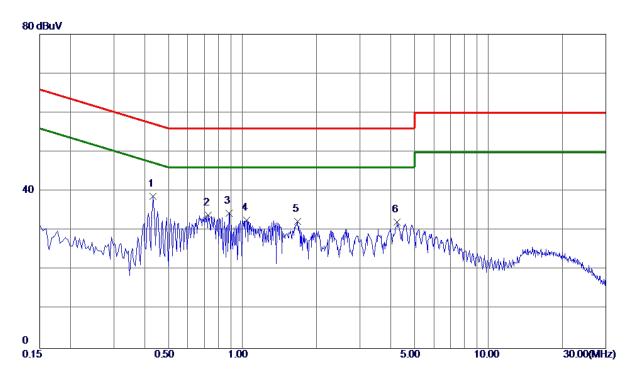
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0. 1770	20.83	9.71	30. 54	64.63	-34.09	Peak	
2 *	0.4335	26.68	9.71	36. 39	57. 19	-20.80	Peak	
3	0.8880	23. 22	9. 72	32.94	56.00	-23.06	Peak	
4	1.3470	19.68	9. 72	29.40	56.00	-26. 60	Peak	
5	4. 1325	18. 23	9. 73	27.96	56.00	-28.04	Peak	
6	14.7075	13. 70	9. 99	23. 69	60.00	-36. 31	Peak	

Report No.: BTL- FCCP-2-1710C185 Page 30 of 71





Neutral



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1 *	0.4335	29.07	9. 60	38. 67	57. 19	-18. 52	Peak	
2	0.7260	24.37	9. 61	33. 98	56.00	-22.02	Peak	
3	0.8835	24.77	9. 61	34. 38	56.00	-21.62	Peak	
4	1.0410	23. 10	9. 61	32.71	56.00	-23.29	Peak	
5	1.6755	22.64	9. 62	32. 26	56.00	-23.74	Peak	
6	4. 2495	22.48	9. 66	32. 14	56.00	-23.86	Peak	

Report No.: BTL- FCCP-2-1710C185 Page 31 of 71





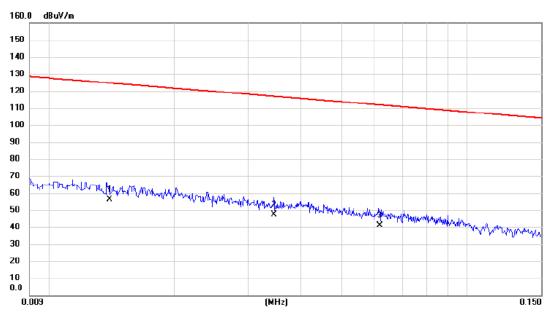
,	APPENDIX B - RADIATED EMISSION (9KHZ TO 30MHZ)

Report No.: BTL- FCCP-2-1710C185 Page 32 of 71





Ant 0°

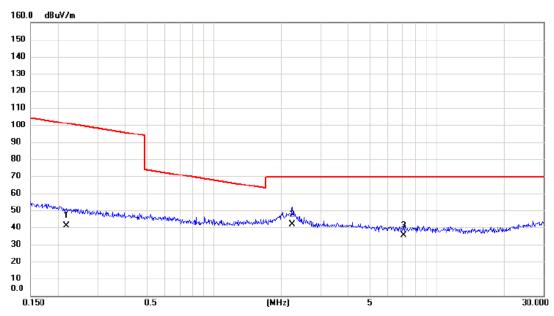


No.	Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	0.0140	35.96	20.40	56.36	124.68	-68.32	AVG	
2		0.0346	28.17	19.18	47.35	116.82	-69.47	AVG	
3		0.0617	22.54	18.50	41.04	111.80	-70.76	AVG	





Ant 0°

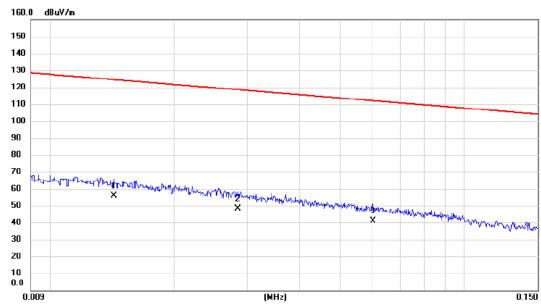


No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2174	24.44	16.75	41.19	100.86	-59.67	AVG	
2 *	2.2367	26.34	15.44	41.78	69.54	-27.76	QP	
3	7.0622	21.37	14.11	35.48	69.54	-34.06	QP	





Ant 90°



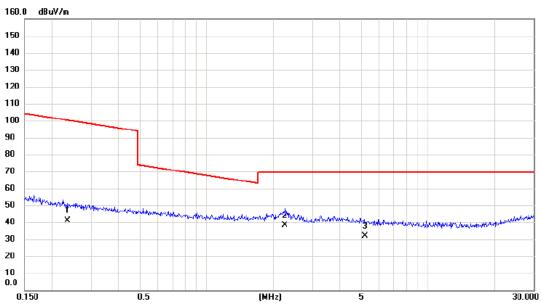
No. Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	0.0143	35.27	20.36	55.63	124.50	-68.87	AVG	
2	0.0284	28.71	19.37	48.08	118.54	-70.46	AVG	
3	0.0601	22.49	18.53	41.02	112.03	-71.01	AVG	

Report No.: BTL- FCCP-2-1710C185 Page 35 of 71





Ant 90°



No. Mk.	Freq.	Reading Level		Measure- ment	Limit	Margin	ı	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.2353	24.46	16.69	41.15	100.17	-59.02	AVG	
2 *	2.2486	22.72	15.44	38.16	69.54	-31.38	QP	
3	5.1663	17.56	14.35	31.91	69.54	-37.63	QP	





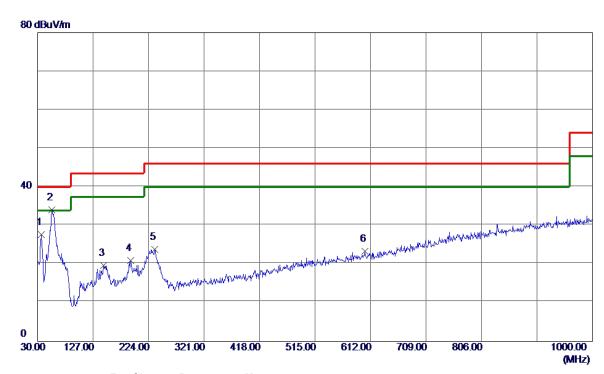
APPENDIX C - RADIATED EMISSION (30MHZ TO 1000MHZ)

Report No.: BTL- FCCP-2-1710C185 Page 37 of 71





Vertical

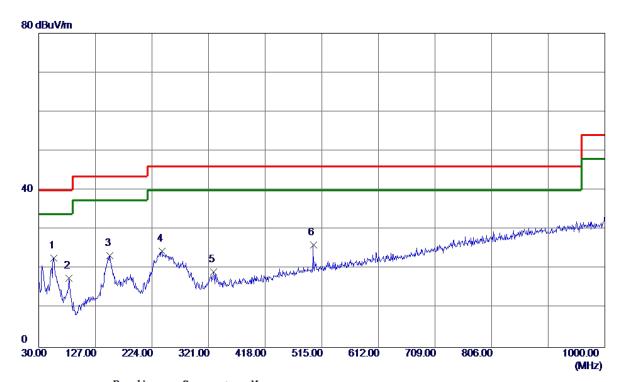


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36.7900	42. 13	-14.41	27.72	40.00	-12. 28	Peak	
2 *	55. 2200	48. 03	-13. 94	34.09	40.00	-5. 91	Peak	
3	145. 4299	33. 55	-13.84	19.71	43.50	-23.79	Peak	
4	192.9600	34. 12	-13. 11	21. 01	43.50	-22.49	Peak	
5	234.6700	38. 04	-14.24	23.80	46.00	-22. 20	Peak	
6	602. 3000	29. 78	-6. 38	23.40	46.00	-22. 60	Peak	





Horizontal

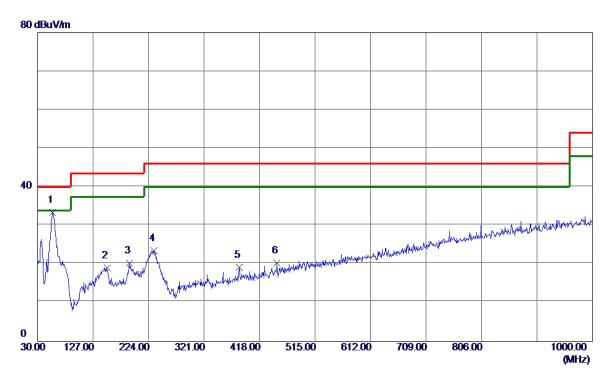


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	56. 1900	36.71	-13. 95	22.76	40.00	-17.24	Peak	
2	81.4100	35. 84	-18. 28	17. 56	40.00	-22.44	Peak	
3	152. 2200	36. 80	-13. 39	23.41	43.50	-20.09	Peak	
4	241.4600	38. 92	-14.44	24.48	46.00	-21. 52	Peak	
5	329.7300	31. 51	-12. 31	19. 20	46.00	-26. 80	Peak	
6	500. 4500	34. 76	-8. 71	26. 05	46.00	-19. 95	Peak	





Vertical



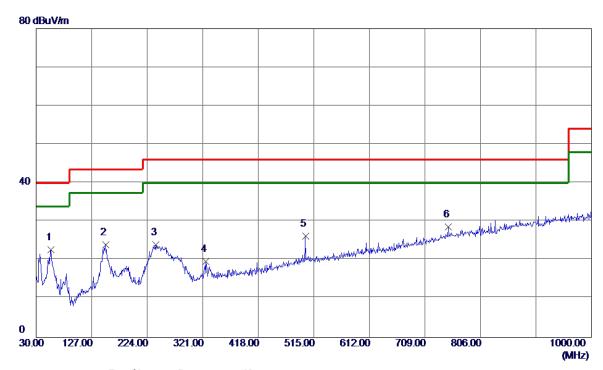
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	56. 1900	47. 36	-13.95	33.41	40.00	-6. 59	Peak	
2	151. 2500	32.49	-13.45	19.04	43.50	-24.46	Peak	
3	190.0500	33. 23	-12.85	20. 38	43.50	-23. 12	Peak	
4	233. 7000	37. 75	-14. 22	23. 53	46.00	-22.47	Peak	
5	382. 1099	30.80	-11.57	19. 23	46.00	-26.77	Peak	
6	448. 0700	30. 36	-9. 99	20. 37	46.00	-25. 63	Peak	

Report No.: BTL- FCCP-2-1710C185 Page 40 of 71





Horizontal

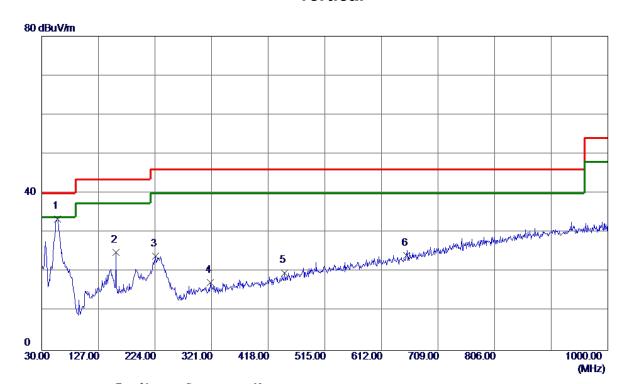


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	56. 1900	36. 73	-13.95	22. 78	40.00	-17.22	Peak	
2	151. 2500	37.42	-13.45	23. 97	43.50	-19.53	Peak	
3	239. 5200	38. 28	-14. 35	23. 93	46.00	-22.07	Peak	
4	326.8200	32.02	-12. 36	19. 66	46.00	-26. 34	Peak	
5	500. 4500	34.89	-8.71	26. 18	46.00	-19.82	Peak	
6	749. 7400	31.06	-2.45	28. 61	46.00	-17.39	Peak	





Vertical

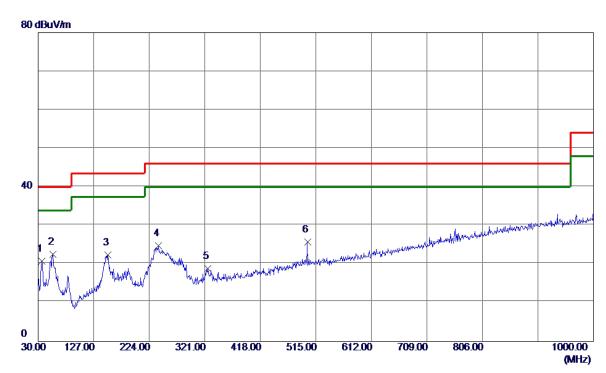


Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
57. 1600	47. 56	-14.04	33. 52	40.00	-6.48	Peak	
157.0700	38. 06	-13. 10	24. 96	43.50	-18. 54	Peak	
224.9700	38. 04	-14.02	24. 02	46.00	-21. 98	Peak	
319.0600	29.74	-12.50	17. 24	46.00	-28.76	Peak	
446. 1300	29.81	-10.05	19. 76	46.00	-26. 24	Peak	
654. 6800	29. 54	-5. 33	24. 21	46.00	-21.79	Peak	
	MHz 57. 1600 157. 0700 224. 9700 319. 0600 446. 1300	Freq. Level	MHz dBuV/m dB 57.1600 47.56 -14.04 157.0700 38.06 -13.10 224.9700 38.04 -14.02 319.0600 29.74 -12.50 446.1300 29.81 -10.05	MHz dBuV/m dB dBuV/m 57.1600 47.56 -14.04 33.52 157.0700 38.06 -13.10 24.96 224.9700 38.04 -14.02 24.02 319.0600 29.74 -12.50 17.24 446.1300 29.81 -10.05 19.76	MHz dBuV/m dB dBuV/m dBuV/m 57.1600 47.56 -14.04 33.52 40.00 157.0700 38.06 -13.10 24.96 43.50 224.9700 38.04 -14.02 24.02 46.00 319.0600 29.74 -12.50 17.24 46.00 446.1300 29.81 -10.05 19.76 46.00	MHz dBuV/m dB dBuV/m dBuV/m dB 57.1600 47.56 -14.04 33.52 40.00 -6.48 157.0700 38.06 -13.10 24.96 43.50 -18.54 224.9700 38.04 -14.02 24.02 46.00 -21.98 319.0600 29.74 -12.50 17.24 46.00 -28.76 446.1300 29.81 -10.05 19.76 46.00 -26.24	MHz dBuV/m dB dBuV/m dBuV/m dB Detector 57.1600 47.56 -14.04 33.52 40.00 -6.48 Peak 157.0700 38.06 -13.10 24.96 43.50 -18.54 Peak 224.9700 38.04 -14.02 24.02 46.00 -21.98 Peak 319.0600 29.74 -12.50 17.24 46.00 -28.76 Peak 446.1300 29.81 -10.05 19.76 46.00 -26.24 Peak





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	36. 7900	35. 14	-14.41	20.73	40.00	-19. 27	Peak	
2 *	56. 1900	36. 58	-13.95	22.63	40.00	-17.37	Peak	
3	152. 2200	35. 82	-13. 39	22. 43	43.50	-21.07	Peak	
4	240. 4900	39. 25	-14. 38	24.87	46.00	-21. 13	Peak	
5	326.8200	31. 31	-12. 36	18. 95	46.00	-27.05	Peak	
6	500. 4500	34.46	-8. 71	25. 75	46.00	-20. 25	Peak	





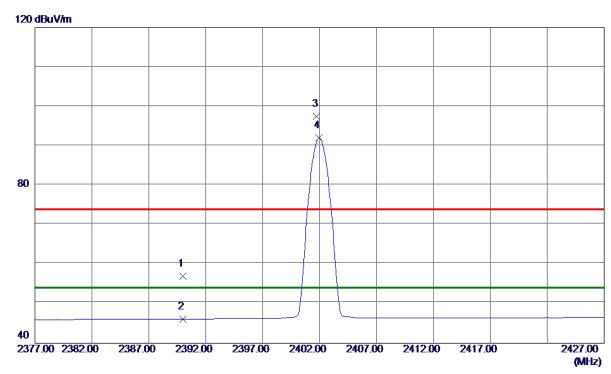
APPENDIX D - RADIATED EMISSION (ABOVE 1000MHZ)

Report No.: BTL- FCCP-2-1710C185 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	23.87	33.06	56. 93	74.00	-17.07	Peak	
2	2390.0000	13.05	33.06	46. 11	54.00	-7.89	AVG	
3	2401.7500	64. 32	33. 10	97.42	74.00	23.42	Peak	No Limit
4 *	2401.9500	58. 87	33. 10	91. 97	54.00	37.97	AVG	No Limit





Vertical



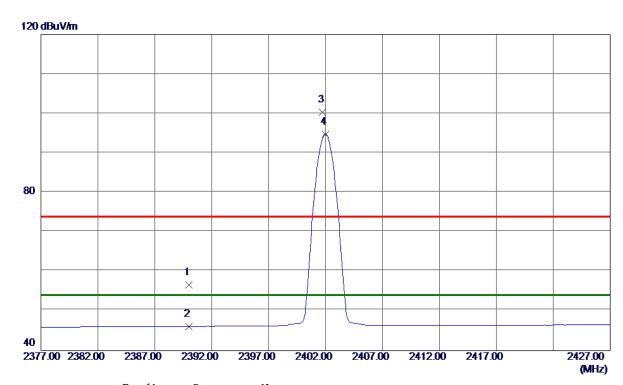
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.8940	33.89	6. 59	40.48	74.00	-33. 52	Peak	
2 *	4804. 3250	23. 04	6. 59	29.63	54.00	-24.37	AVG	

Report No.: BTL- FCCP-2-1710C185 Page 46 of 71





Horizontal



MHz dBuV/m dB dBuV/m dB Detector Com	mment
1 2390.0000 23.63 33.06 56.69 74.00 -17.31 Peak	
2 2390.0000 13.06 33.06 46.12 54.00 -7.88 AVG	
3 2401.7500 67.20 33.10 100.30 74.00 26.30 Peak No	Limit
4 * 2402.0000 61.65 33.10 94.75 54.00 40.75 AVG No	Limit





Horizontal

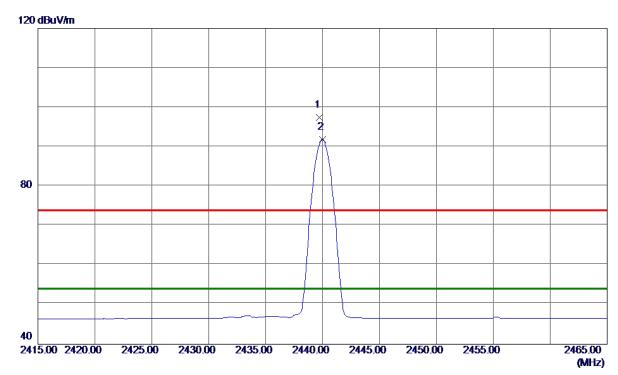


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4803.6150	35. 12	6. 58	41.70	74.00	-32.30	Peak	
2 *	4804. 3620	23. 34	6. 59	29. 93	54.00	-24.07	AVG	





Vertical

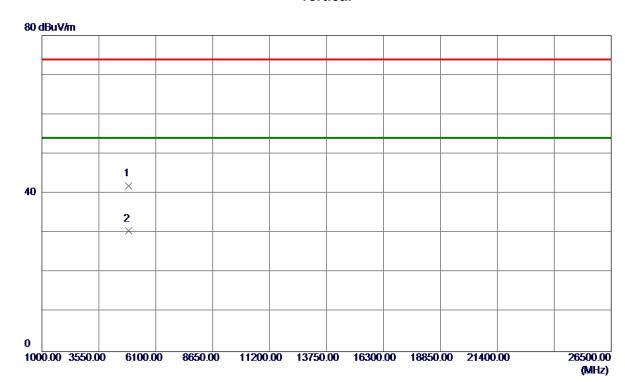


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.7000	64.23	33. 24	97.47	74.00	23.47	Peak	No Limit
2 *	2440. 0000	58. 58	33. 24	91.82	54.00	37.82	AVG	No Limit





Vertical



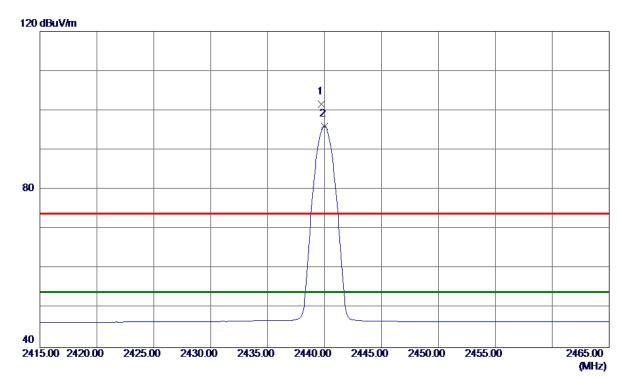
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4880. 2350	35. 05	6.86	41.91	74.00	-32.09	Peak	
2 *	4880. 4290	23. 62	6.86	30. 48	54.00	-23. 52	AVG	

Report No.: BTL- FCCP-2-1710C185 Page 50 of 71





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2439.7500	68. 43	33. 24	101.67	74.00	27.67	Peak	No Limit
2 *	2440. 0000	62. 80	33. 24	96. 04	54.00	42.04	AVG	No Limit







Horizontal



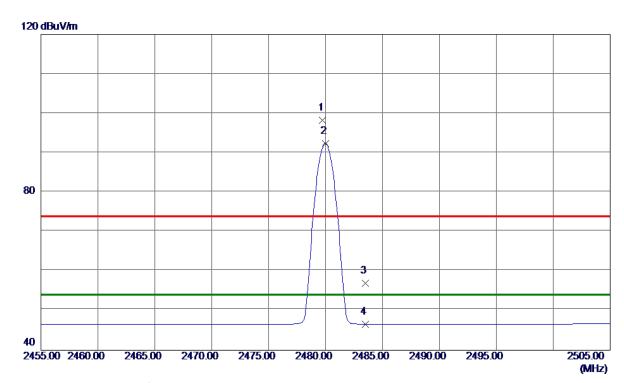
No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4880.0270	23.85	6. 86	30.71	54.00	-23. 29	AVG	
2	4880. 2240	35. 14	6. 86	42.00	74.00	-32.00	Peak	

Report No.: BTL- FCCP-2-1710C185 Page 52 of 71





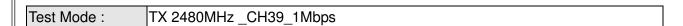
Vertical



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.7500	64.78	33. 39	98. 17	74.00	24. 17	Peak	No Limit
2 *	2480.0000	59.00	33. 39	92. 39	54.00	38. 39	AVG	No Limit
3	2483. 5000	23. 51	33.41	56. 92	74.00	−17. 08	Peak	
4	2483. 5000	13. 16	33. 41	46. 57	54.00	-7.43	AVG	







Vertical

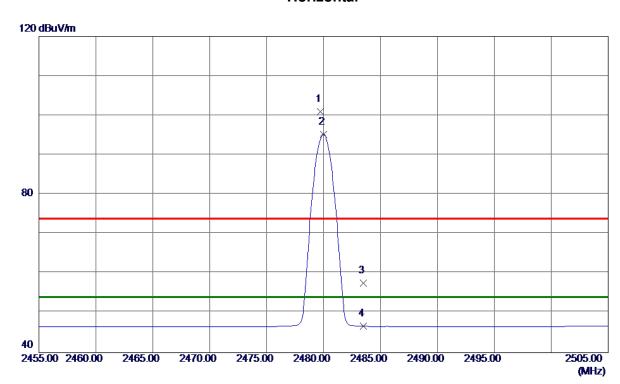


No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1 *	4959. 5970	23.70	7.14	30.84	54.00	-23. 16	AVG	
2	4960. 3990	35. 06	7. 15	42. 21	74.00	-31.79	Peak	





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	2479.7000	67. 54	33. 39	100. 93	74.00	26. 93	Peak	No Limit
2 *	2480.0000	61.85	33. 39	95. 24	54.00	41.24	AVG	No Limit
3	2483. 5000	24. 19	33.41	57. 60	74.00	-16. 40	Peak	
4	2483. 5000	13. 26	33. 41	46. 67	54.00	-7. 33	AVG	

Report No.: BTL- FCCP-2-1710C185 Page 55 of 71





Horizontal



No.	Freq.	Reading Level	Correct Factor	Measure ment	Limit	Margin		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	4959. 5560	34.65	7.14	41.79	74.00	-32. 21	Peak	
2 *	4960. 3520	23. 49	7. 15	30.64	54.00	-23.36	AVG	





APPENDIX E - BANDWIDTH

Report No.: BTL- FCCP-2-1710C185 Page 57 of 71

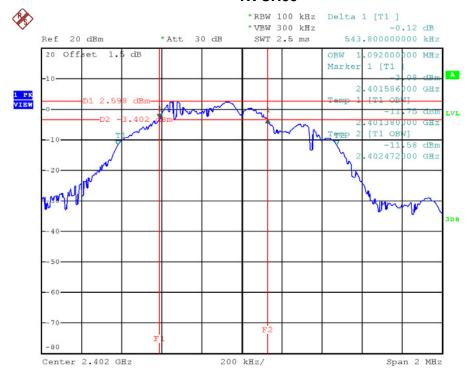




Test Mode: TX Mode

Frequency (MHz)	6dB Bandwidth (MHz)	99% Occupied BW (MHz)	Min. Limit (kHz)	Test Result
2402	0.544	1.092	500	Pass
2440	0.540	1.088	500	Pass
2480	0.550	1.092	500	Pass

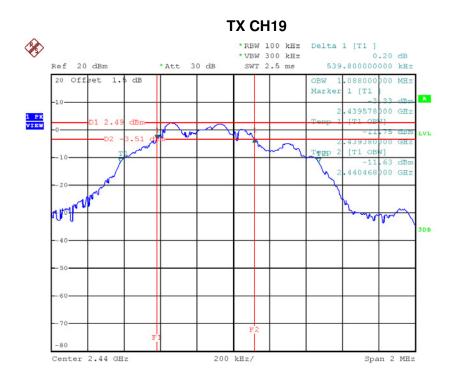
TX CH00



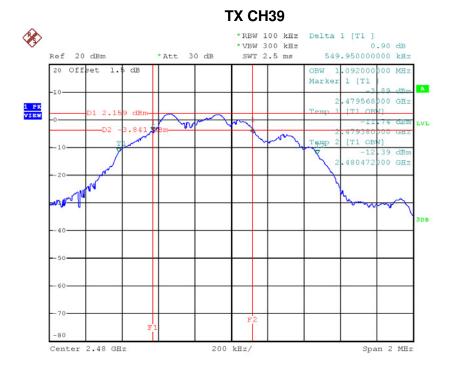
Date: 26.JAN.2018 14:27:43







Date: 26.JAN.2018 14:29:29



Date: 26.JAN.2018 14:31:23





APPENDIX F - MAXIMUM OUTPUT POWER TEST

Report No.: BTL- FCCP-2-1710C185 Page 60 of 71





Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Conducted Power (dBm)	Conducted Power (W)	Max. Limit (dBm)	Max. Limit (W)	Test Result
2402	4.13	0.0026	30.00	1.00	Pass
2440	4.40	0.0028	30.00	1.00	Pass
2480	4.56	0.0029	30.00	1.00	Pass

Report No.: BTL- FCCP-2-1710C185 Page 61 of 71





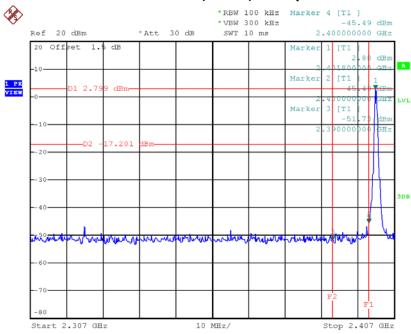
APPENDIX G - ANTENNA CONDUCTED SPURIOUS EMISSION





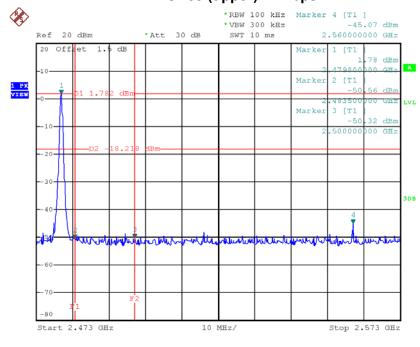


CH00 (Lower) - 1Mbps



Date: 26.JAN.2018 14:27:51

CH39 (upper) - 1Mbps

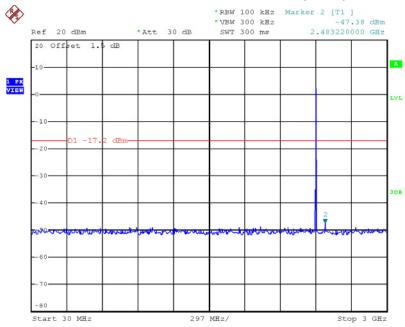


Date: 26.JAN.2018 14:31:31



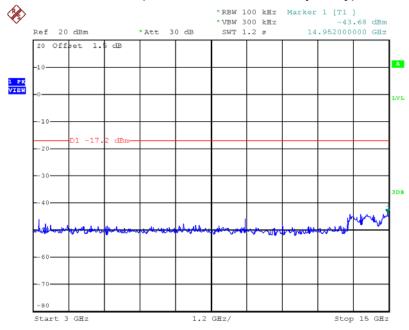






Date: 26.JAN.2018 14:28:05

CH00 (10 Harmonic of the frequency) 2

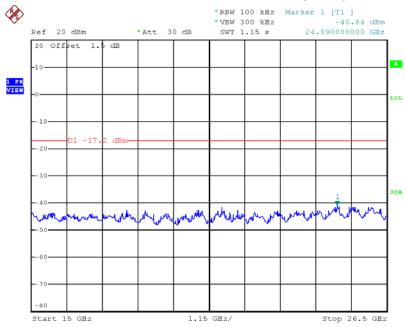


Date: 26.JAN.2018 14:28:13



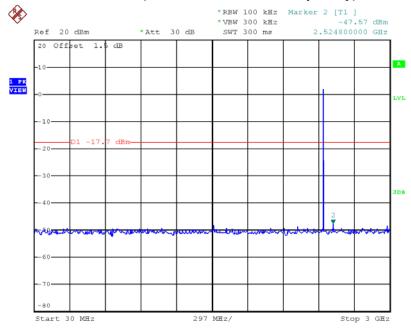






Date: 26.JAN.2018 14:28:21

CH19 (10 Harmonic of the frequency) 1

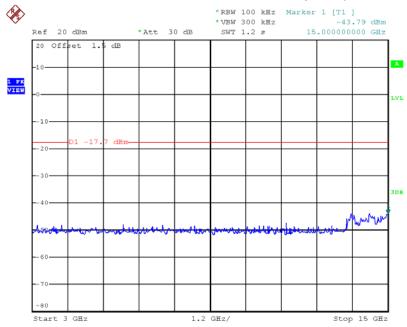


Date: 26.JAN.2018 14:29:50



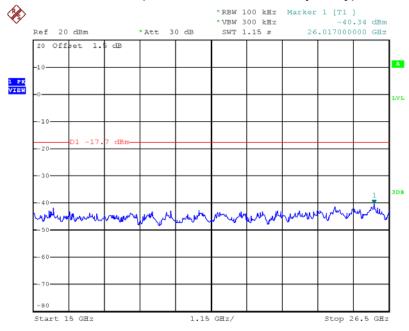






Date: 26.JAN.2018 14:29:58

CH19 (10 Harmonic of the frequency) 3

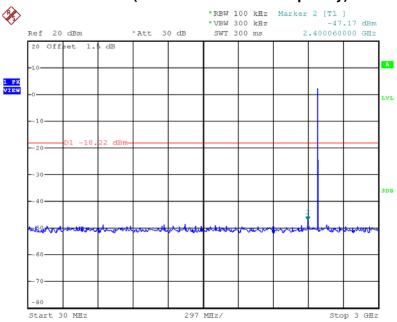


Date: 26.JAN.2018 14:30:06



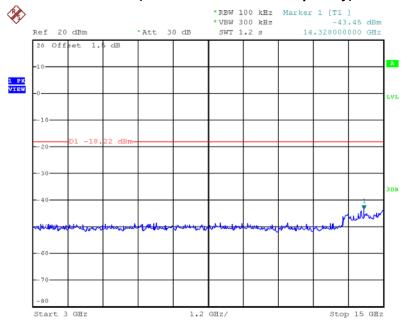






Date: 26.JAN.2018 14:31:45

CH39 (10 Harmonic of the frequency) 2

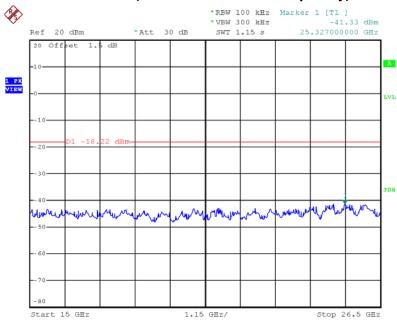


Date: 26.JAN.2018 14:31:53









Date: 26.JAN.2018 14:32:01





APPENDIX H - POWER SPECTRAL DENSITY TEST					

Report No.: BTL- FCCP-2-1710C185 Page 69 of 71

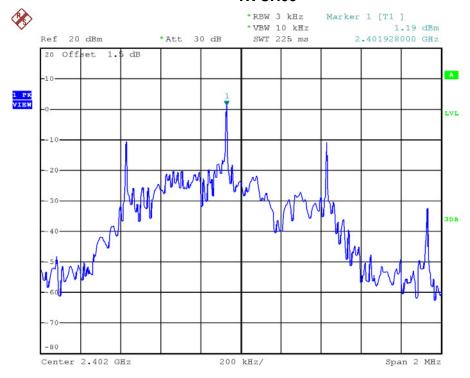




Test Mode: CH00, CH19, CH39 - 1Mbps

Frequency (MHz)	Power Density (dBm/3kHz)	Power Density (mW/3kHz)	Max. Limit (dBm/3kHz)	Test Result
2402	1.190	1.315	8.00	Pass
2440	0.990	1.256	8.00	Pass
2480	0.730	1.183	8.00	Pass

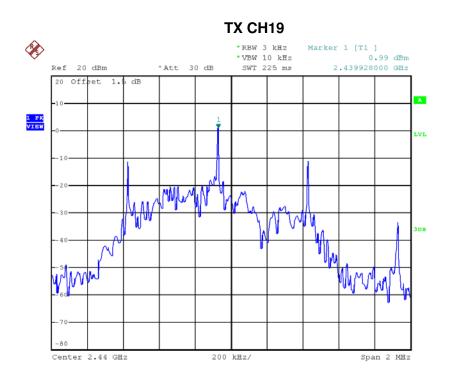
TX CH00



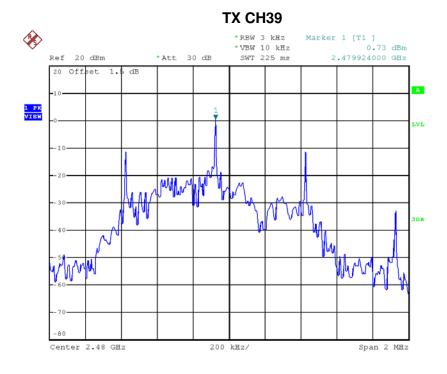
Date: 26.JAN.2018 14:27:12







Date: 26.JAN.2018 14:30:12



Date: 26.JAN.2018 14:32:07