

FCC Radio Test Report FCC ID: TE7KC310 This report concerns: Original Grant : 1905C144 Project No. Equipment : Kasa Spot Wire-Free Camera Test Model : KC310 Series Model : N/A : TP-Link Technologies Co., Ltd. Applicant Address : Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China Date of Receipt : May 29, 2019 Date of Test : Jun. 21, 2019 ~ Aug. 28, 2019 Issued Date : Aug. 29, 2019 Tested by : BTL Inc. Vincent. Jan Testing Engineer (Vincent Tan) Steven Lu (Steven Lu) **Technical Manager** Authorized Signatory (Ethan Ma) BTL INC. No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China. TEL: +86-769-8318-3000 FAX: +86-769-8319-6000 ac-MRA ACCREDITED hilah

Certificate #5123.02



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Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective. Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue.	Aug. 13, 2019
	Updated the data of Bandwidth and added the data for Power Spectral Density.	Aug. 26, 2019
R02	Updated the data of Bandwidth and Power Spectral Density	Aug. 29, 2019



1. GENERAL SUMMARY

Equipment : Brand Name : Test Model :	•
Series Model :	
	TP-Link Technologies Co., Ltd.
	TP-Link Technologies Co., Ltd.
Address :	Building 24(floors1,3,4,5) and 28(floors1-4) Central Science and Technology Park, Shennan Rd, Nanshan, Shenzhen, China
Date of Test :	Jun. 21, 2019 ~ Aug. 28, 2019
Test Sample :	Engineering Sample No.: DG19062146 for conducted, DG19062147 for radiated.
Standard(s) :	FCC Part15, Subpart C (15.247)
	ANSI C63.10-2013
	FCC KDB 558074 D01 DTS Meas Guidance v05r02

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-2-1905C144) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of A2LA according to the ISO/IEC 17025 quality assessment standard and technical standard(s).



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

	FCC Part15, Subpart C (15.247)				
Standard(s) Section	Test Result	Judgment	Remark		
15.207	AC Power Line Conducted Emissions	APPENDIX A	PASS		
15.247(d) 15.205(a) 15.209(a)	Radiated Emission	APPENDIX B APPENDIX C APPENDIX D	PASS		
15.247(a)(2)	Bandwidth	APPENDIX E	PASS		
15.247(b)(3)	Maximum Average Output Power	APPENDIX F	PASS		
15.247(d)	Conducted Spurious Emission	APPENDIX G	PASS		
15.247(e)	Power Spectral Density	APPENDIX H	PASS		
15.203	Antenna Requirement		PASS	Note(2)	

Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.



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 Registration Number for FCC: 357015 BTL's Designation Number for FCC: CN1240

2.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)) The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

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

B. Radiated emissions test:

Test Site	Method	ethod Measurement Frequency Range		U, (dB)
		9KHz ~ 30MHz	V	3.79
		9KHz ~ 30MHz	Н	3.57
		30MHz ~ 200MHz	V	4.88
		30MHz ~ 200MHz	Н	4.14
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	4.62
DG-CB03	CIOFK	200MHz ~ 1,000MHz	Н	4.80
		1GHz ~ 6GHz	-	4.58
		6GHz ~ 18GHz	-	5.18
		18 ~ 26.5 GHz	-	3.80
		26.5 ~ 40 GHz	-	4.30

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



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Kasa Spot Wire-Free Camera		
Brand Name	tp-link		
Test Model	KC310		
Series Model	N/A		
Model Difference(s)	N/A		
Power Source	1# DC voltage supplied from AC/DC adapter. Model: A8A-050200U-US1 2# Supplied from battery. Model: GF204747P		
Power Rating	1# I/P: 100-240V~ 50/60Hz 0.35A O/P: 5V === 2A 2# DC 3.8V 5000mAh		
Operation Frequency	904 MHz ~ 924 MHz		
Modulation Technology	DSSS(60 Kbps)		
Bit Rate of Transmitter	DSSS(60 Kbps)		
Maximum Average Output Power	13.71dBm (0.023 W)		

Note:

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

2. Channel List:

	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
ſ	01	904.0	05	912.0	09	920.0
	02	906.0	06	914.0	10	922.0
	03	908.0	07	916.0	11	924.0
	04	910.0	08	918.0		

3. Antenna Specification:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK	N/A	Monopole	N/A	1.05



3.2 DESCRIPTION OF TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

Pretest Mode	Description
Mode 1	TX Mode Channel 01
Mode 2	TX Mode Channel 01/06/11

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

AC power line conducted emissions test		
Final Test Mode	Description	
Mode 1	TX Mode Channel 01	

Radiated emissions test - Below 1GHz		
Final Test Mode	Description	
Mode 1	TX Mode Channel 01	

Radiated emissions test- Above 1GHz	
Final Test Mode	Description
Mode 2	TX Mode Channel 01/06/11

Conducted test	
Final Test Mode Description	
Mode 2 TX Mode Channel 01/06/11	

NOTE:

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

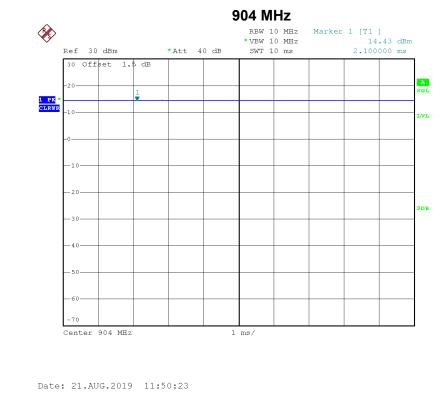
(2) For radiated emission below 1 GHz test, the channel 01 is found to be the worst case and recorded.

3.3 PARAMETERS OF TEST SOFTWARE

Test Software	N/A		
Frequency (MHz)	904	914	924
Parameters	014	014	014



3.4 DUTY CYCLE

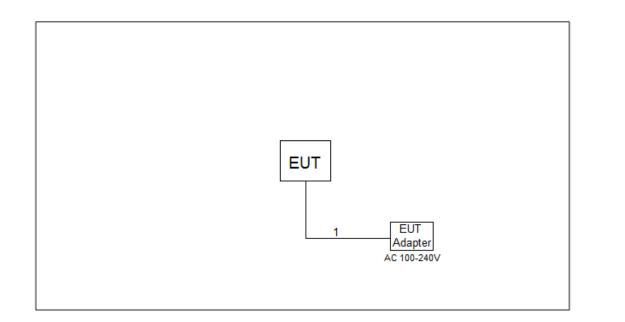


Duty cycle = 10.000 ms / 10.000 ms = 100.00% Duty Factor = 10 log(1/Duty cycle) = 0.00





3.5 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



3.6 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.
-	-	-	-	-

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	DC Cable	NO	NO	2m



4. AC POWER LINE CONDUCTED EMISSIONS TEST

4.1 LIMIT

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

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

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

4.2 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.

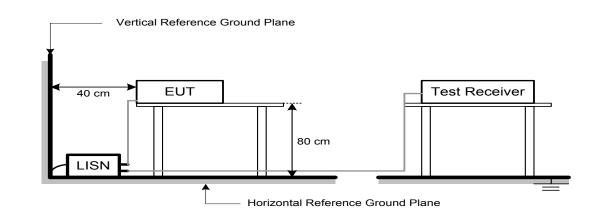
4.3 DEVIATION FROM TEST STANDARD

No deviation





4.4 TEST SETUP



4.5 EUT OPERATION CONDITIONS

EUT was programmed to be in continuously transmitting mode.

4.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 53% Test Voltage: AC 120V/60Hz

4.7 TEST RESULTS

Please refer to the APPENDIX A.



5. RADIATED EMISSIONS TEST

5.1 LIMIT

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 (9 kHz-1000 MHz)

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
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000 MHz)

Frequency (MHz)	(dBuV/m at 3 m)	
	Peak	Average
Above 1000	74	54

NOTE:

(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).



Spectrum Parameter	Setting	
Attenuation	Auto	
Start Frequency	1000 MHz	
Stop Frequency	10th carrier harmonic	
RBW / VBW	1 MHz / 3 MHz for Peak,	
(Emission in restricted band)	1 MHz / 1/T for Average	
Receiver Parameter	Setting	
Attenuation	Auto	

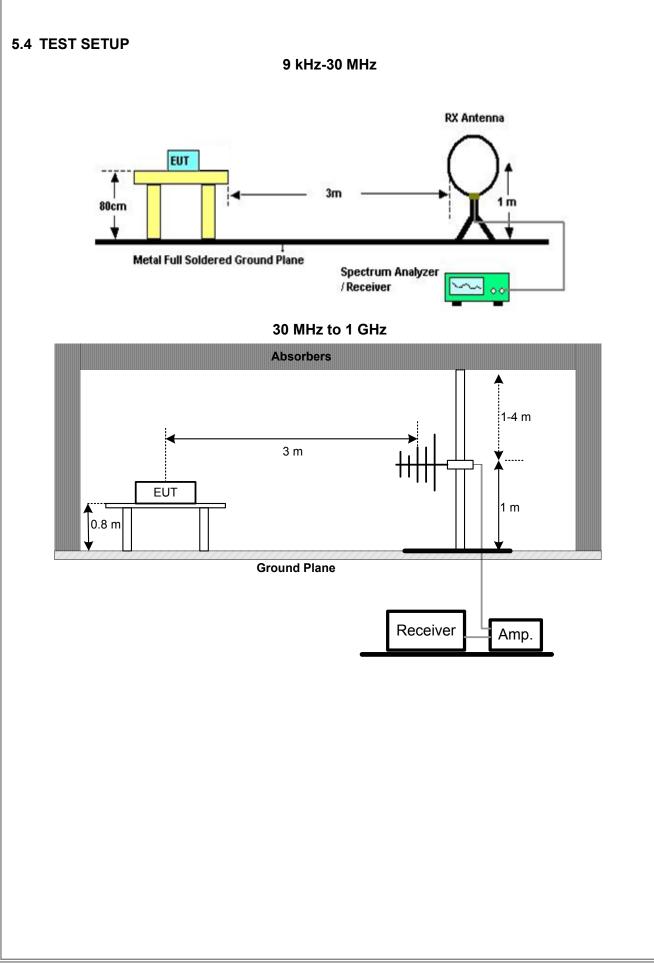
Allenuation	Aulo
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector
Start ~ Stop Frequency	30 MHz~1000 MHz for QP detector

5.2 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 1 GHz)
- 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 1 GHz)
- 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 1 GHz.
- 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 1 GHz)
- 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 1 GHz)
- i. For the actual test configuration, please refer to the related Item -EUT Test Photos.

5.3 DEVIATION FROM TEST STANDARD

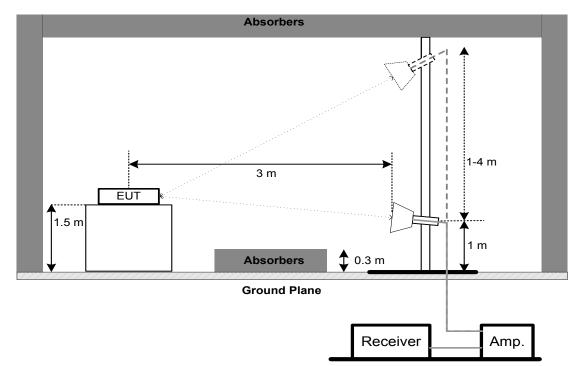
No deviation







Above 1 GHz



5.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 EUT TEST CONDITIONS

Temperature: 25°C Relative Humidity: 60% Test Voltage: AC 120V/60Hz

5.7 TEST RESULTS - 9 KHZ TO 30 MHZ

Please refer to the APPENDIX B

Remark:

(1) Distance extrapolation factor = 40 log (specific distance / test distance) (dB).
(2) Limit line = specific limits (dBuV) + distance extrapolation factor.

5.8 TEST RESULTS - 30 MHZ TO 1000 MHZ

Please refer to the APPENDIX C.

5.9 TEST RESULTS - ABOVE 1000 MHZ

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.



6. BANDWIDTH TEST

6.1 LIMIT

FCC Part15, Subpart C (15.247)							
Section Test Item Limit							
45 047(a)(0)	6 dB Bandwidth	Minimum 500 kHz					
15.247(a)(2)	99% Emission Bandwidth	-					

6.2 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: For 6 dB Bandwidth: RBW= 100 kHz, VBW=300 kHz, Sweep time = 2.5ms. For 99% Bandwidth: RBW= 10 kHz, VBW=30 kHz.
- c. The bandwidth was performed in accordance with method 11.8.1 of ANSI C63.10-2013.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

6.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

6.7 TEST RESULTS

Please refer to the APPENDIX E.



7. MAXIMUM AVERAGE OUTPUT POWER TEST

7.1 LIMIT

FCC Part15 , Subpart C (15.247)							
Section	Section Test Item Limit						
15.247(b)(3)	Maximum Average Output Power	1 watt or 30 dBm					

- a. The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- b. The maximum conducted output power was performed in accordance with method 11.9.2.3.1 of ANSI C63.10-2013.

7.2 DEVIATION FROM STANDARD

No deviation.

7.3 TEST SETUP

EUT	Power Meter

7.4 EUT OPERATION CONDITIONS The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

7.5 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

7.6 TEST RESULTS

Please refer to the APPENDIX F.



8. CONDUCTED SPURIOUS EMISSION

8.1 LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator 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 the transmitter demonstrates compliance with the peak Output Power limits. If the transmitter complies with the Output Power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required.

8.2 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= 100 kHz, VBW=100 kHz, Sweep time = Auto.

8.3 DEVIATION FROM STANDARD

No deviation.

8.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.5 unless otherwise a special operating condition is specified in the follows during the testing.

8.6 EUT TEST CONDITIONS

Temperature: 24°C Relative Humidity: 66% Test Voltage: AC 120V/60Hz

8.7 TEST RESULTS

Please refer to the APPENDIX G.



9. POWER SPECTRAL DENSITY TEST

9.1 LIMIT

FCC Part15, Subpart C (15.247)							
Section Test Item Limit							
15.247(e)	Power Spectral Density	8 dBm (in any 3 kHz)					

9.2 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=3 kHz, VBW=10 kHz, Sweep time = Auto.
- c. The Power Spectral Density was performed in accordance with method 11.10.2 of ANSI C63.10-2013.

9.3 DEVIATION FROM STANDARD

No deviation.

9.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

9.6 TEST RESULTS

Please refer to the APPENDIX H.

10. MEASUREMENT INSTRUMENTS LIST

AC Power Line Conducted Emissions							
lt c rec	Kind of Family and	[Calibrated wetil		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	EMI Test Receiver	R&S	ESCI	100382	Mar. 10, 2020		
2	LISN	EMCO	3816/2	52765	Mar. 10, 2020		
3	50ohm Terminator	SHX	TF5-3	15041305	Mar. 10, 2020		
4	Artificial-Mains Network	SCHWARZBEC K	NSLK 8127	8127685	Mar. 10, 2020		
5	TRANSIENT LIMITER	EM	EM-7600	772	Mar. 10, 2020		
6	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		
7	Cable	N/A	RG223	12m	Mar. 12, 2020		
		n	issions - 9 kHz to				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Loop Antenna	EM	EM-6876-1	230	Jan. 15, 2020		
2	Cable	N/A	RG 213/U	C-102	May 31, 2020		
3	EMI Test Receiver	R&S	ESCI	100895	Mar. 10, 2020		
4	Measurement	Farad	EZ-EMC	N/A	N/A		
4	Software	i alau	Ver.NB-03A1-01	IN/75	11/7		
			ssions - 30 MHz t				
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Antenna	Schwarzbeck	VULB9160	9160-3232	Mar. 09, 2020		
2*	Amplifier	HP	8447D	2944A09673	Aug. 11, 2021		
3	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020		
4	Cable	emci	LMR-400(30MHz- 1GHz)(8m+5m)	N/A	May 24, 2020		
5	Controller	СТ	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		
	I		nissions - Above		L		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
1	Double Ridged Guide Antenna	ETS	3115	75789	Mar. 09, 2020		
2	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Jun. 23, 2020		
3	Amplifier	Agilent	8449B	3008A02333	Mar. 10, 2020		
4	Microwave Preamplifier With Adaptor	EMC INSTRUMENT	EMC2654045	980039 & HA01	Mar. 10, 2020		
5	Receiver	Agilent	N9038A	MY52130039	Aug. 03, 2020		
6	Controller	CT	SC100	N/A	N/A		
7	Controller	MF	MF-7802	MF780208416	N/A		
8	Cable	mitron	B10-01-01-12M	18072744	Jun. 29, 2020		
9	Measurement	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A		





Bandwidth &										
	Hopping Channel Separation Measurement &									
			Spectral Density							
			lucted Spurious E	mission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	1 Spectrum Analyzer R&S FSP40 100185 Aug. 03									
		Maximum	Average Output P	ower						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
1	Peak Power Analyzer	Keysight	8990B	MY51000506	Aug. 03, 2020					
2	Wideband power sensor	Keysight	N1923A	MY58310004	Aug. 03, 2020					
		Antenna Conc	ducted Spurious E	mission						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until					
		600	50540	400405	A 00.0000					

 Item
 Kind of Equipment
 Manufacturer
 Type No.
 Serial No.
 Calibrated until

 1
 Spectrum Analyzer
 R&S
 FSP40
 100185
 Aug. 03, 2020

Remark "N/A" denotes no model name, serial no. or calibration specified. "*" calibration period of equipment list is three year.

Except * item, all calibration period of equipment list is one year.





11. EUT TEST PHOTO

AC Power Line Conducted Emissions Test Photos







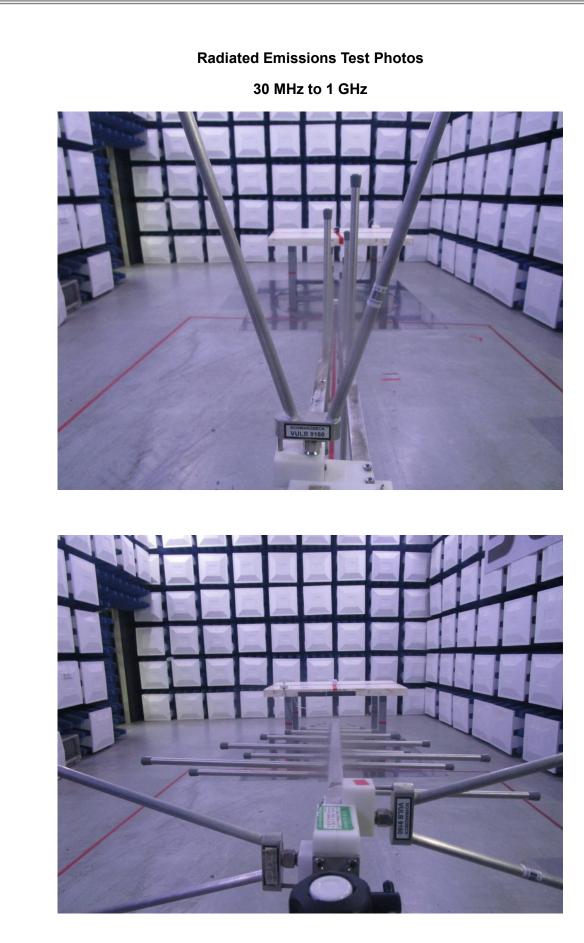


Radiated Emissions Test Photos 9 kHz to 30 MHz

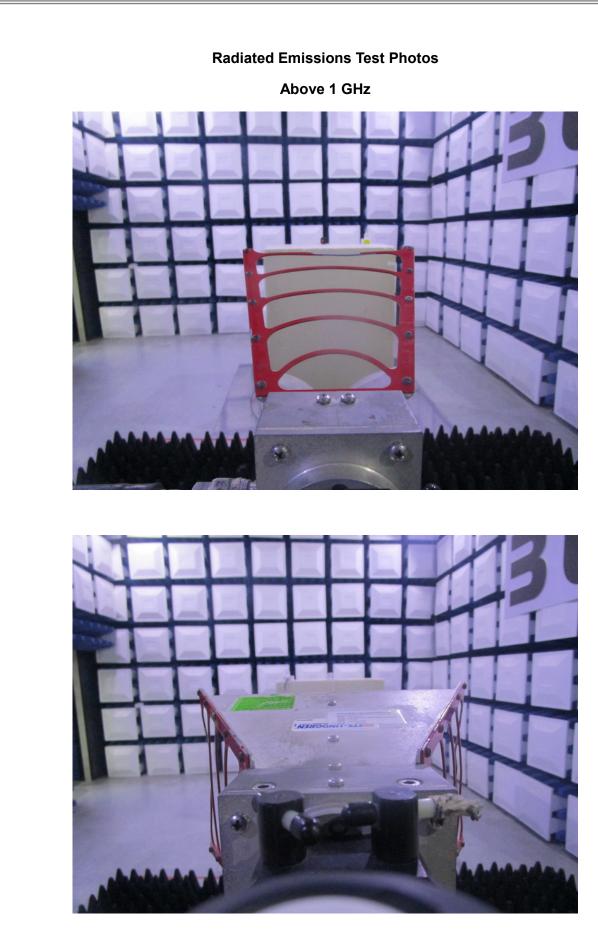
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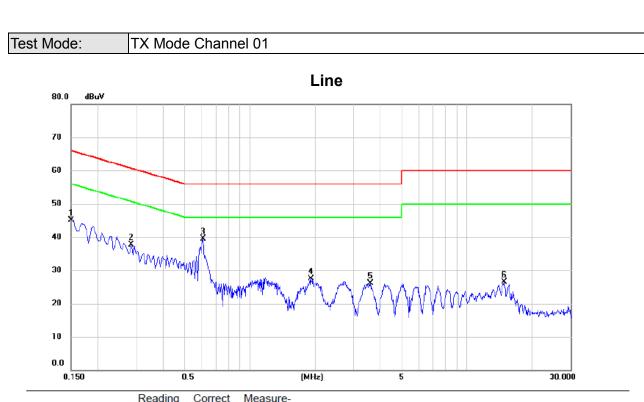
Report No.: BTL-FCCP-2-1905C144



APPENDIX A - AC POWER LINE CONDUCTED EMISSIONS







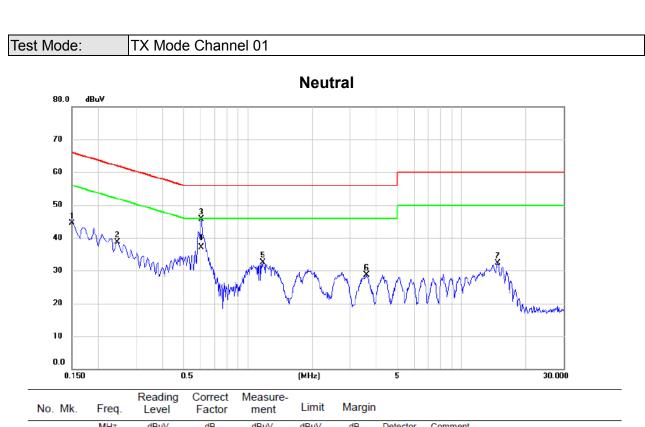
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	35.38	9.82	45.20	66.00	-20.80	peak	
2	0.2850	27.95	9.84	37.79	60.67	-22.88	peak	
3 *	0.6090	29.61	9.89	39.50	56.00	-16.50	peak	
4	1.9095	17.61	9.99	27.60	56.00	-28.40	peak	
5	3.5880	16.03	10.10	26.13	56.00	-29.87	peak	
6	14.8020	15.69	10.73	26.42	60.00	-33.58	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







INO. IVIK.	Fleq.	Level	Factor	ment	Curric	margin		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1500	34.69	9.91	44.60	66.00	-21.40	peak	
2	0.2445	28.85	9.93	38.78	61.94	-23.16	peak	
3	0.6045	35.62	10.04	45.66	56.00	-10.34	peak	
4 *	0.6045	27.10	10.04	37.14	46.00	-8.86	AVG	
5	1.1760	22.38	10.13	32.51	56.00	-23.49	peak	
6	3.5880	18.45	10.29	28.74	56.00	-27.26	peak	
7	14.7345	21.23	11.06	32.29	60.00	-27.71	peak	

REMARKS:

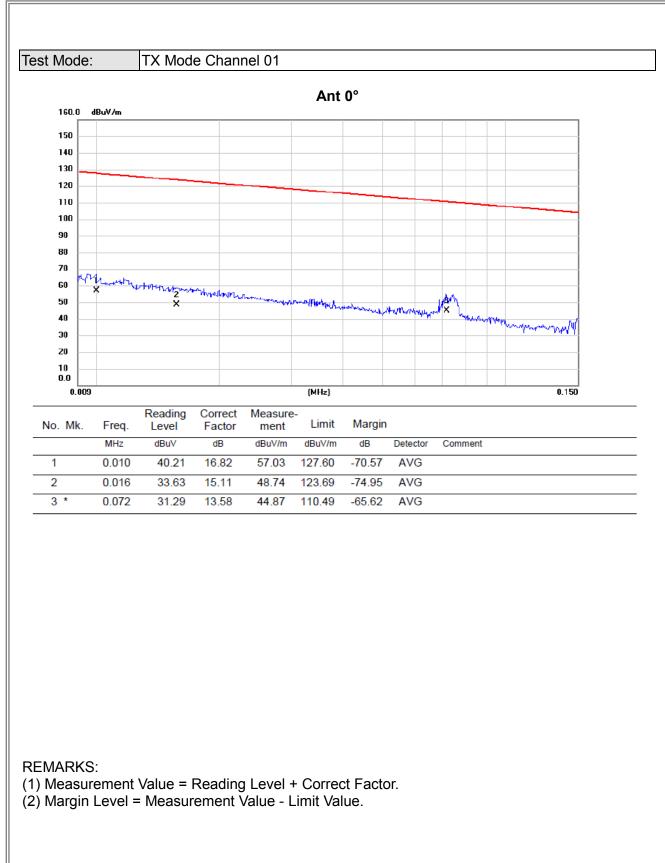
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX B - RADIATED EMISSION - 9 KHZ TO 30 MHZ

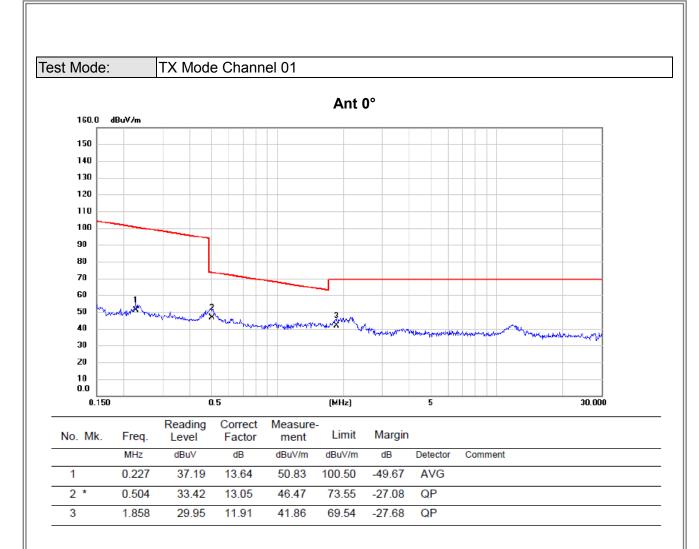












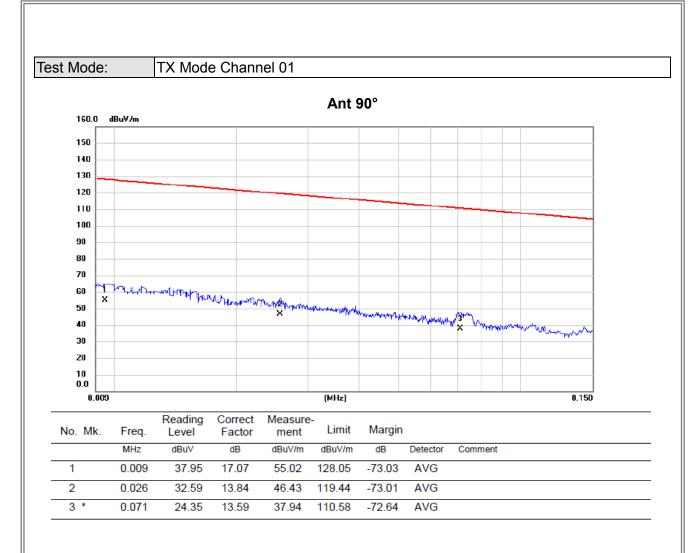
REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

(2) Margin Level = Measurement Value - Limit Value.





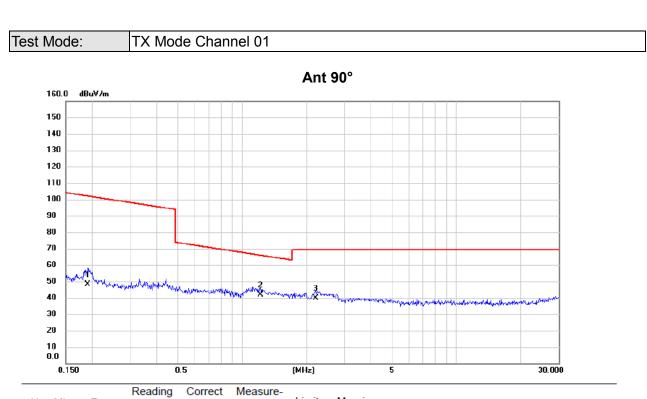


REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







No. Mk.	Freq.	Level	Factor	ment	Limit	Margin		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.190	34.69	13.60	48.29	102.02	-53.73	AVG	
2 *	1.223	29.43	12.34	41.77	65.86	-24.09	QP	
3	2.213	28.03	11.69	39.72	69.54	-29.82	QP	

REMARKS:

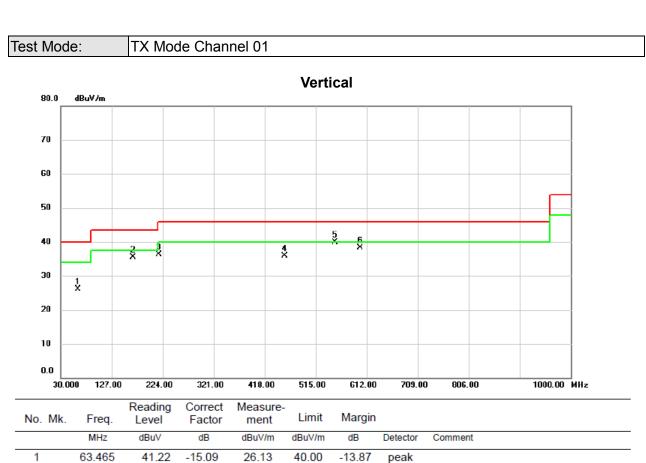
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.



APPENDIX C - RADIATED EMISSION - 30 MHZ TO 1000 MHZ







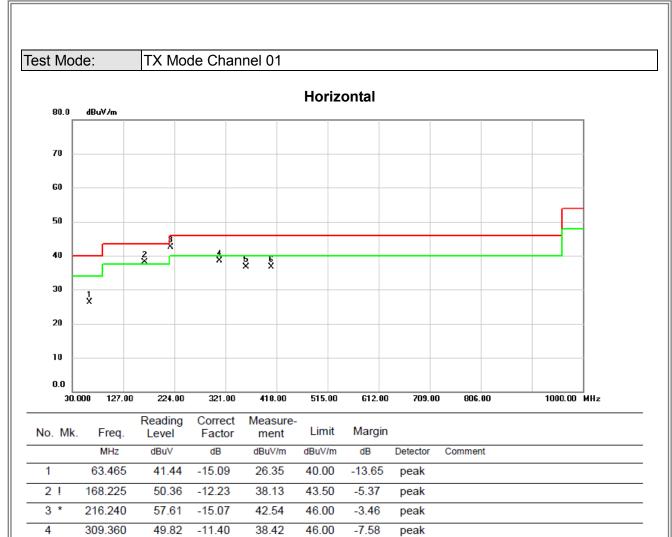
1	63.465	41.22	-15.09	26.13	40.00	-13.87	peak	
2	168.225	47.74	-12.23	35.51	43.50	-7.99	peak	
3	216.240	51.44	-15.07	36.37	46.00	-9.63	peak	
4	455.830	43.91	-8.10	35.81	46.00	-10.19	peak	
5 *	551.860	47.18	-7.22	39.96	46.00	-6.04	peak	
6	599.875	44.12	-5.80	38.32	46.00	-7.68	peak	

REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.







REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.

47.26

46.08

359.800

407.815

5

6

-10.50

-9.31

36.76

36.77

46.00

46.00

-9.24

-9.23

peak

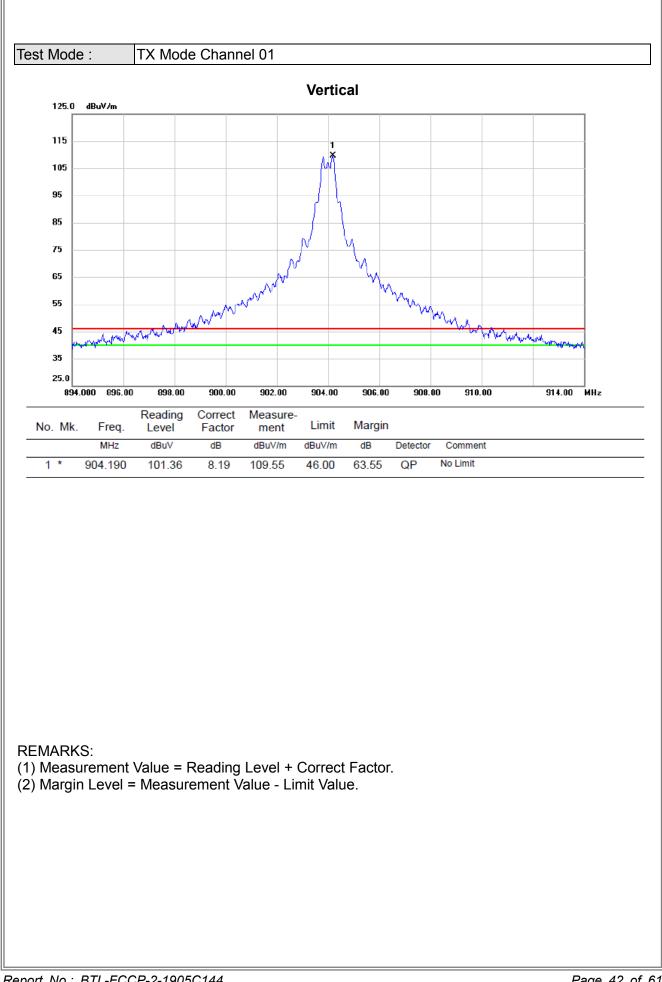
peak



APPENDIX D - RADIATED EMISSION- ABOVE 1000 MHZ

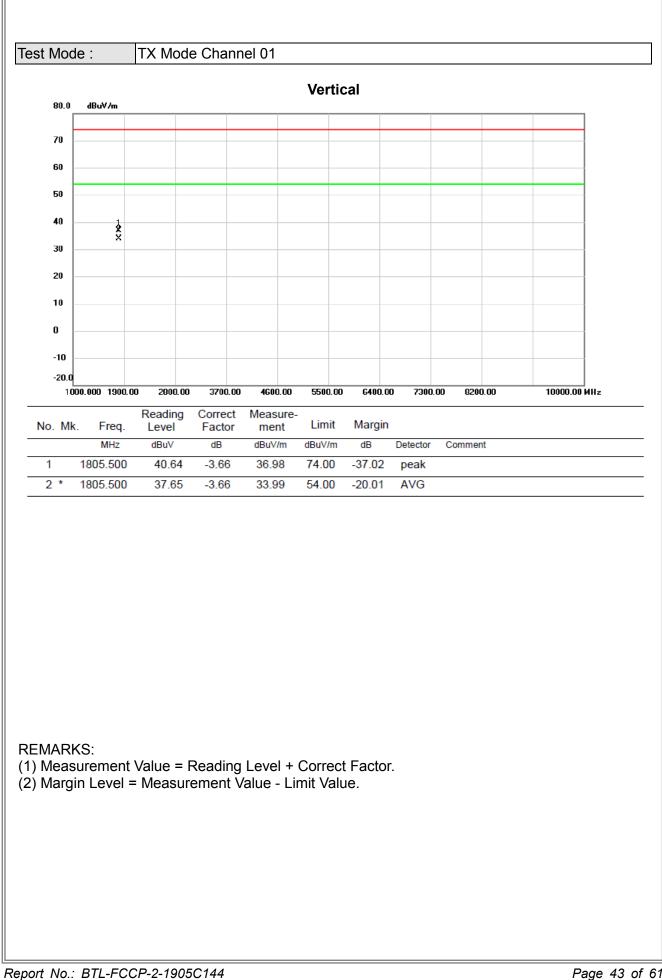






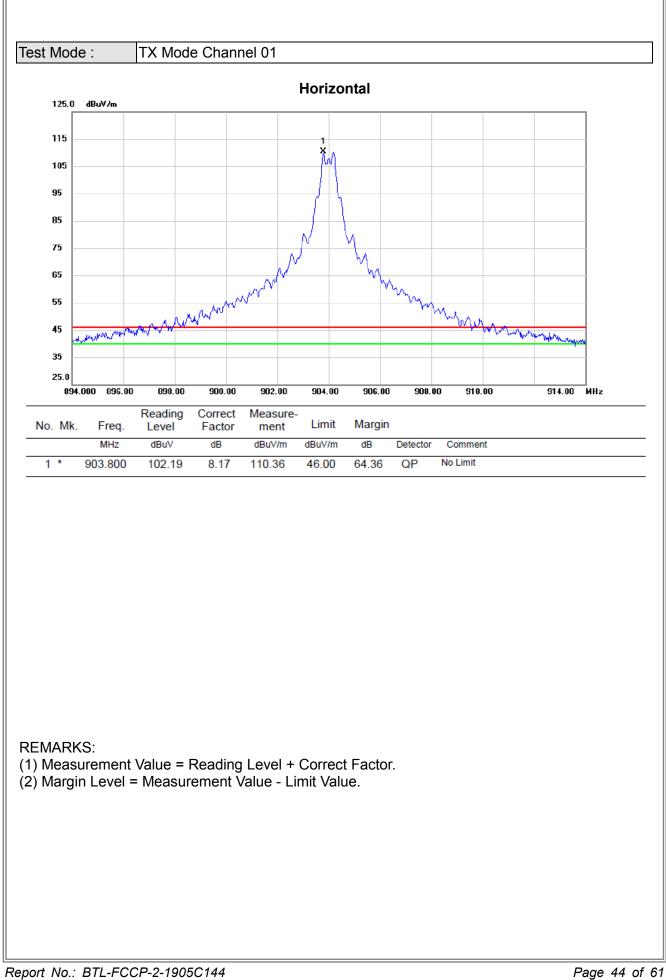






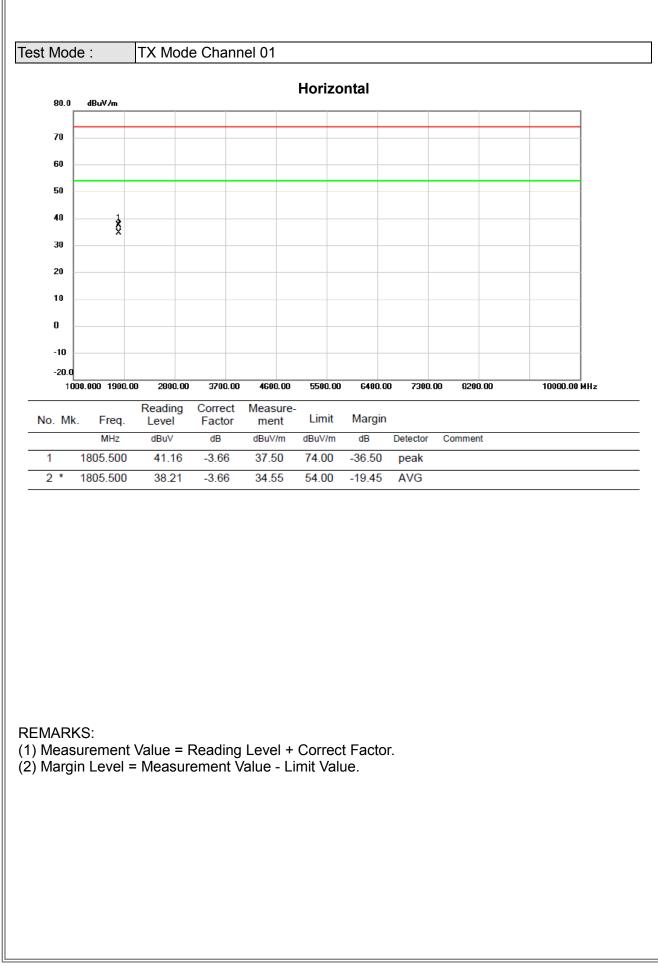






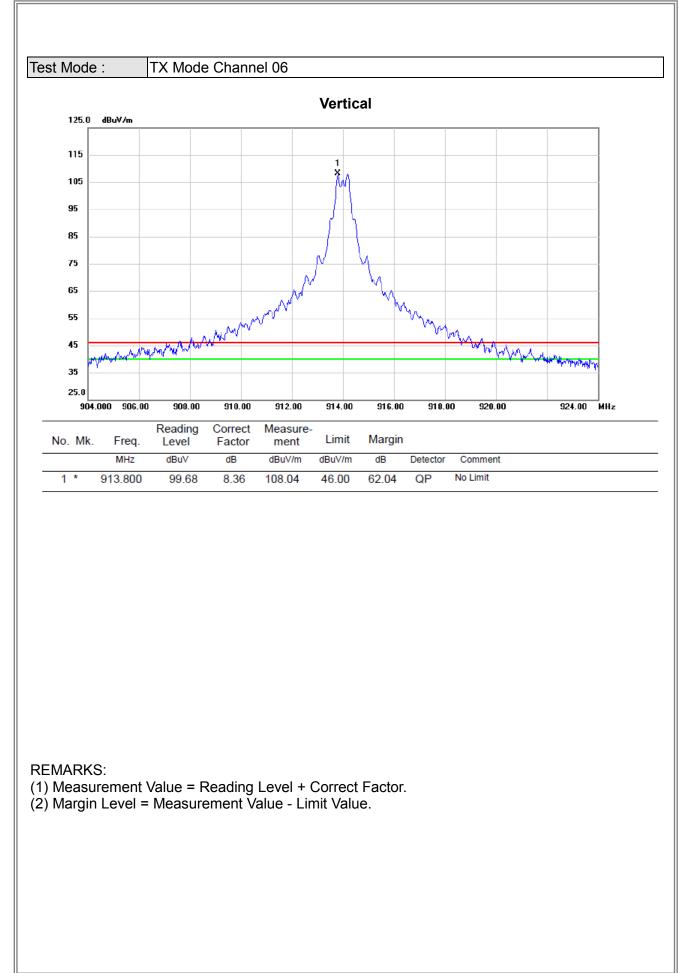






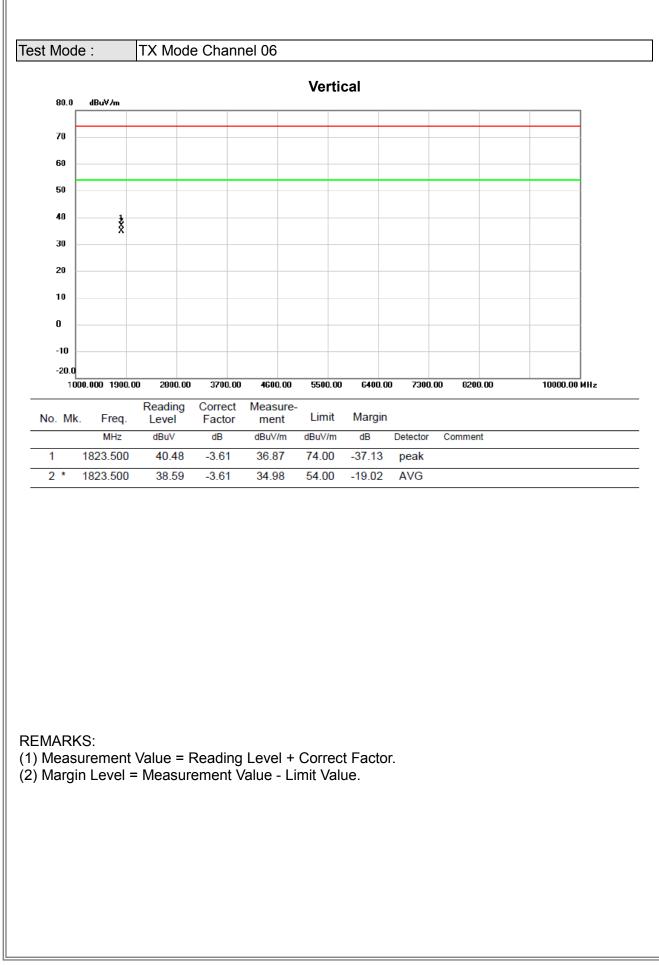






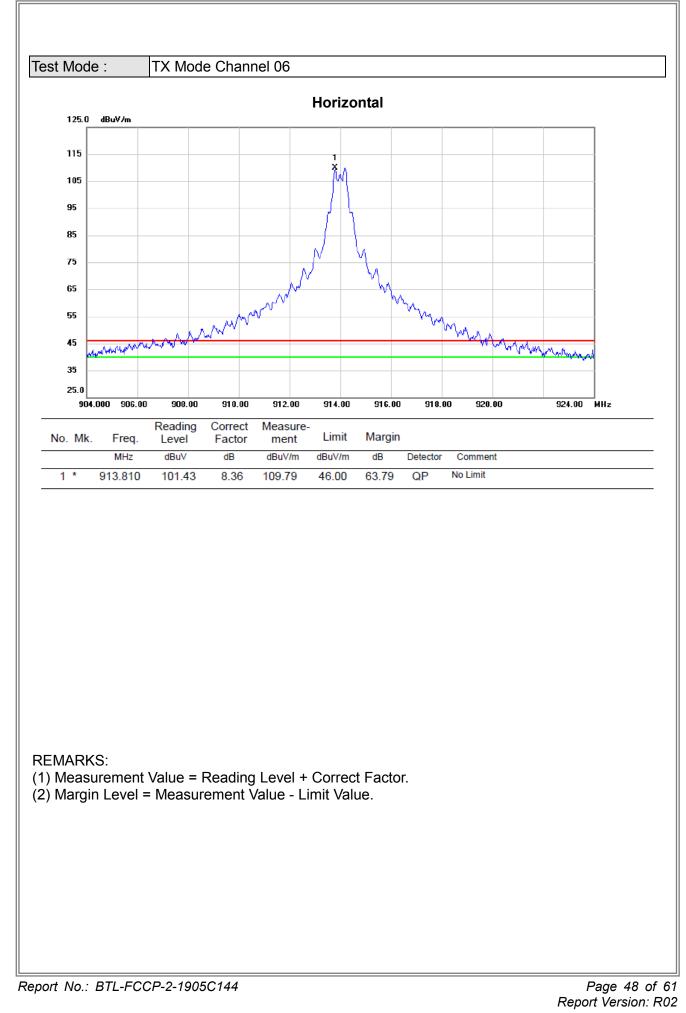






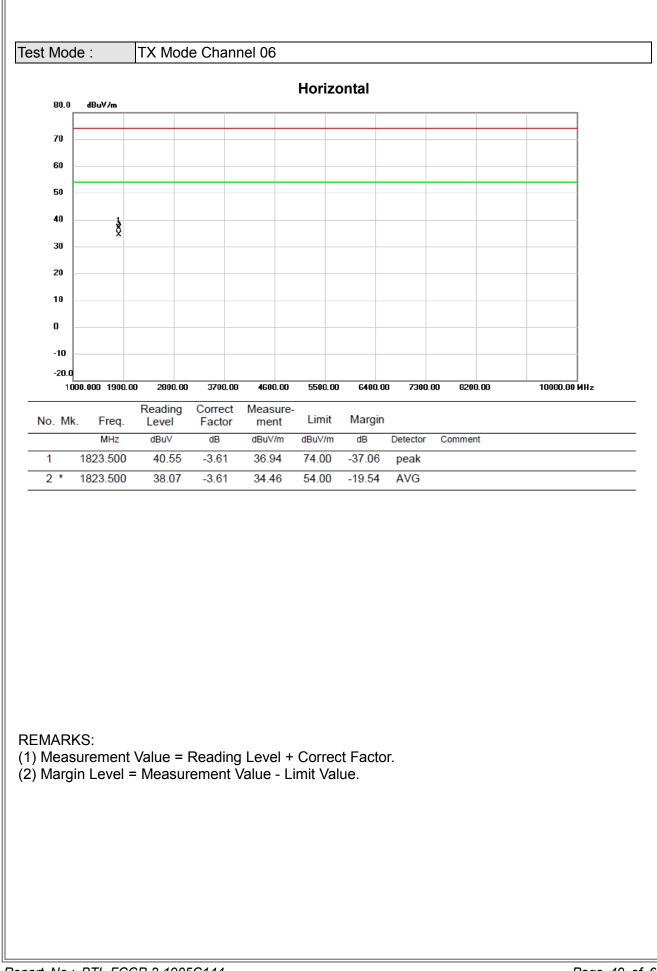






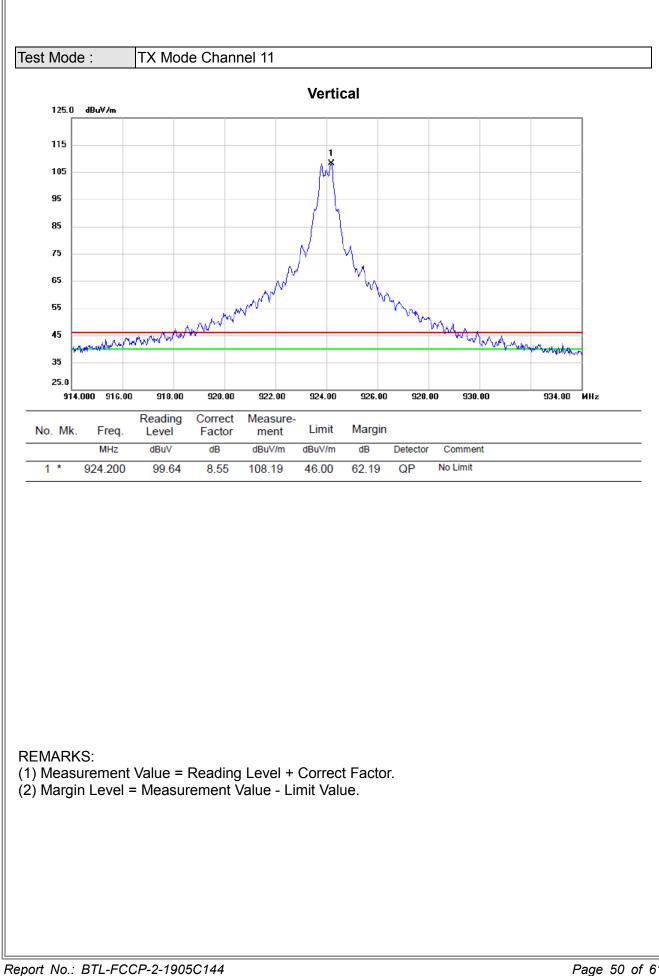






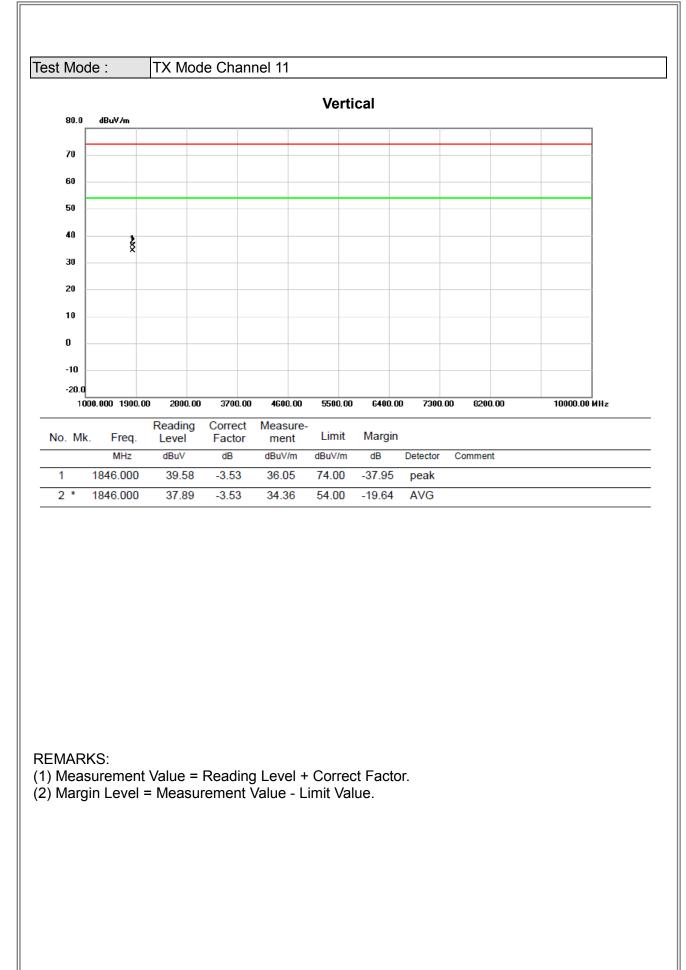






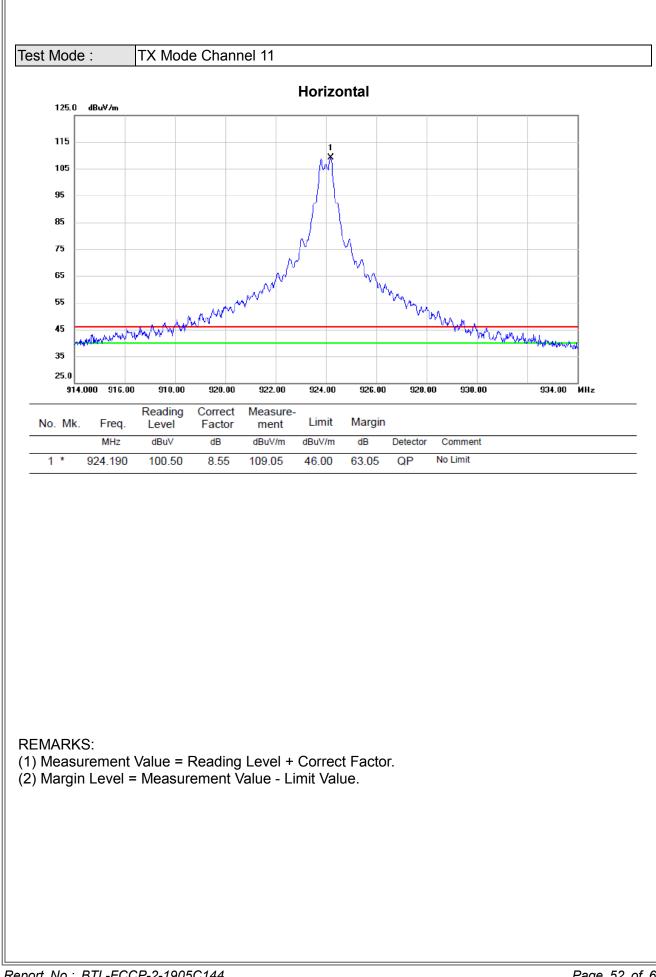






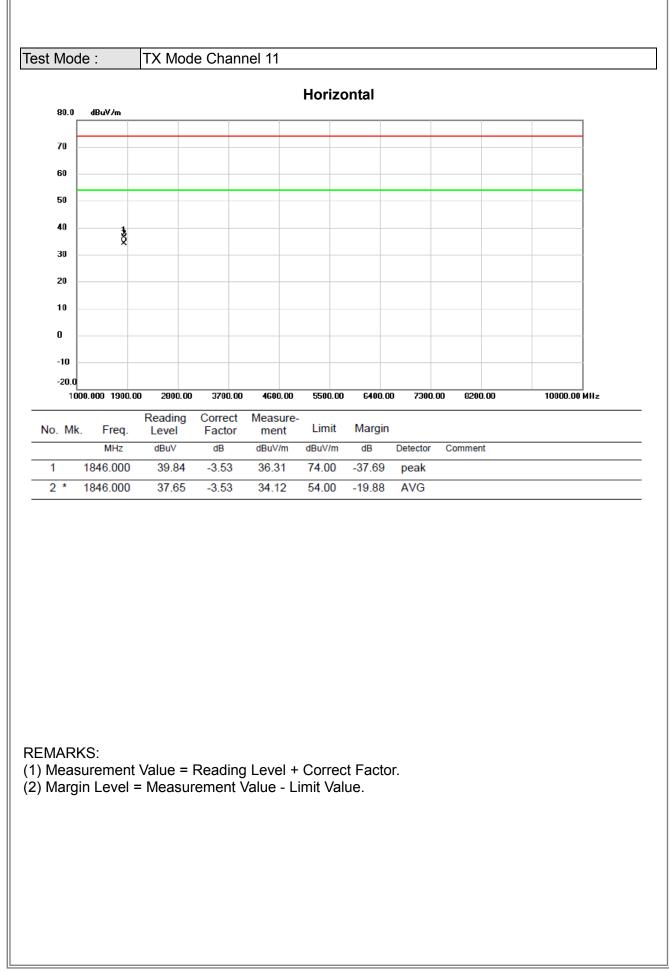












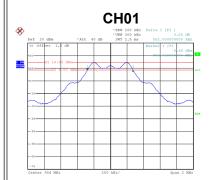


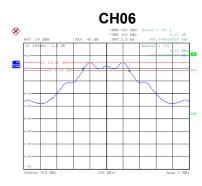
APPENDIX E - BANDWIDTH





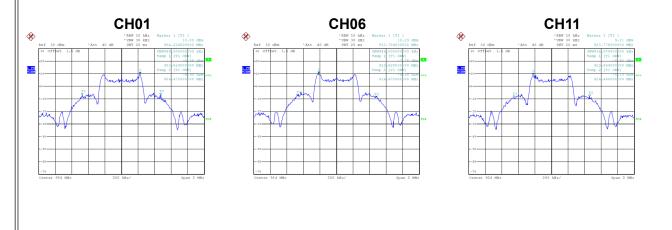
Te	Test Mode: TX Mode							
	Channel	Frequency	6 dB Bandwidth	6 dB Bandwidth Min.	Test Result			
		(MHz)	(MHz)	Limit (kHz)	rootroout			
	01	904	0.552	500	Pass			
	06	914	0.560	500	Pass			
	11	924	0.552	500	Pass			







Channel	Frequency (MHz)	99 % Emission Bandwidth (MHz)	Test Result
01	904	0.948	Pass
06	914	0.944	Pass
11	924	0.916	Pass



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APPENDIX F - MAXIMUM AVERAGE OUTPUT POWER





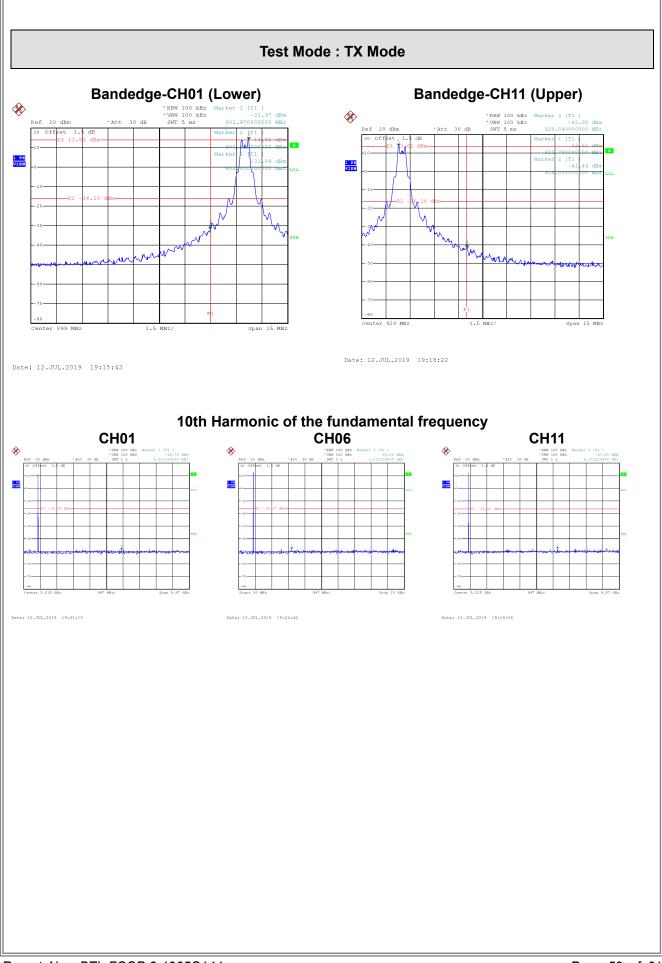
Test Mode: TX Mode								
Channel	Frequency (MHz)	Average Output Power (dBm)	Duty Factor	Average Output Power + Duty Factor (dBm)	Max. Limit (dBm)	Test Result		
01	904	13.71	0.00	13.71	30.00	Pass		
06	914	13.59	0.00	13.59	30.00	Pass		
11	924	13.56	0.00	13.56	30.00	Pass		



APPENDIX G - CONDUCTED SPURIOUS EMISSION







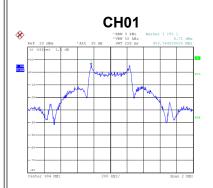


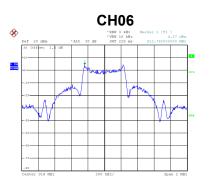
APPENDIX H - POWER SPECTRAL DENSITY





Test Mode:	TX Mode			
Channel	Frequency (MHz)	Power Spectral Density (dBm/3kHz)	Max. Limit (dBm/3kHz)	Result
01	904	5.71	8	Complies
06	914	4.37	8	Complies
11	924	3.96	8	Complies







End of Test Report