

FCC&IC Radio Test Report

FCC ID: UZZSFQ09 IC: 7633A-SFQ09

This report concerns (check one): Original Grant Class II Change

Issued Date: Jan. 20, 2014 **Project No.** : 1401C054 **Equipment**: Double Spot

Model Name SFQ-09;SFQ-09RB

Applicant: Beautiful Enterprise Co., Ltd.

27th Floor, Beautiful Group Tower, 77 Address Connaught Road Central, Hong Kong

Tested by: Neutron Engineering Inc. EMC Laboratory

Date of Receipt: Jan. 09, 2014

Date of Test: Jan. 09, 2014 ~ Jan. 16, 2014

Testing Engineer

Technical Manager

Authorized Signatory

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2640

Report No.: NEI-FICP-1-1401C054 Page 1 of 110



Declaration

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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.

Report No.: NEI-FICP-1-1401C054 Page 2 of 110

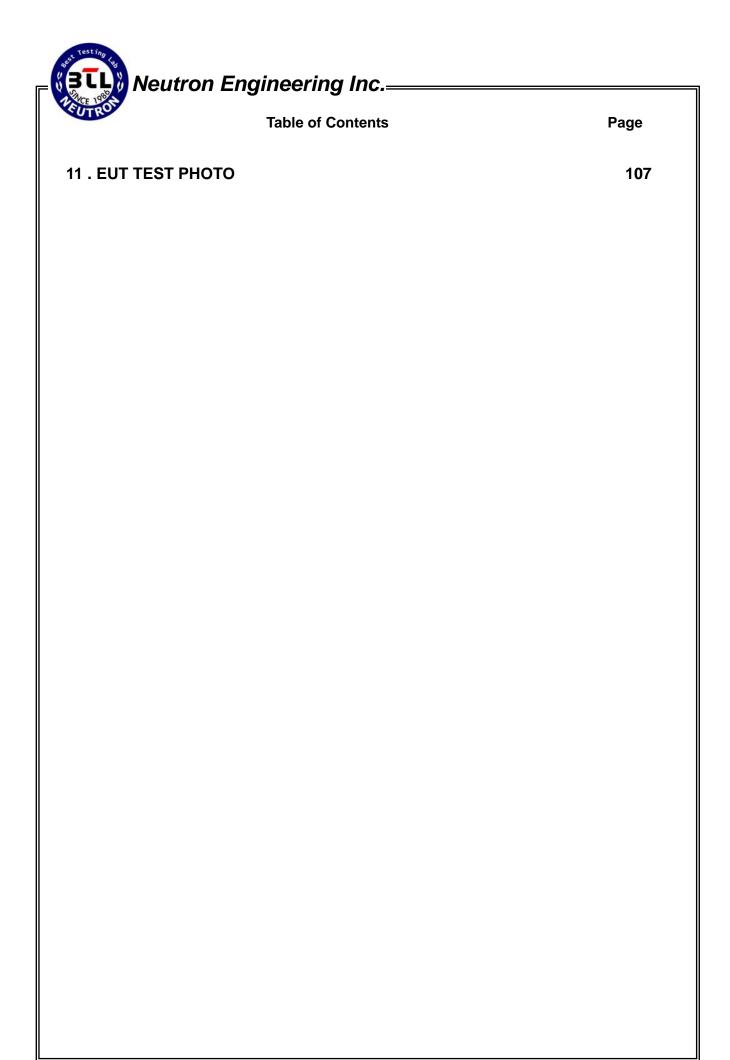
Table of Contents	Page
REPORT ISSUED HISTORY	6
1. CERTIFICATION	7
2 . SUMMARY OF TEST RESULTS	8
2.1 TEST FACILITY	9
2.2 MEASUREMENT UNCERTAINTY	9
3. GENERAL INFORMATION	10
3.1 GENERAL DESCRIPTION OF EUT	10
3.2 DESCRIPTION OF TEST MODES	12
3.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING	12
3.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTER	D 13
3.5 DESCRIPTION OF SUPPORT UNITS	14
4 . EMC EMISSION TEST	15
4.1 CONDUCTED EMISSION MEASUREMENT	15
4.1.1 POWER LINE CONDUCTED EMISSION LIMITS	15 15
4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING 4.1.3 TEST PROCEDURE	15 16
4.1.4 DEVIATION FROM TEST STANDARD	16
4.1.5 TEST SETUP	16
4.1.6 EUT OPERATING CONDITIONS	16
4.1.7 TEST RESULTS	17
4.2 RADIATED EMISSION MEASUREMENT 4.2.1 RADIATED EMISSION LIMITS	20
4.2.1 RADIATED EMISSION LIMITS 4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING	20 21
4.2.3 TEST PROCEDURE	22
4.2.4 DEVIATION FROM TEST STANDARD	22
4.2.5 TEST SETUP	22
4.2.6 EUT OPERATING CONDITIONS	22
4.2.7 TEST RESULTS (BETWEEN30 – 1000 MHZ) 4.2.8 TEST RESULTS (ABOVE 1000 MHZ)	25 38
,	
5 . NUMBER OF HOPPING CHANNEL	62
5.1 APPLIED PROCEDURES / LIMIT	62
5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING 5.1.2 TEST PROCEDURE	62
5.1.2 TEST PROCEDURE 5.1.3 DEVIATION FROM STANDARD	62 62
5.1.4 TEST SETUP	62
5.1.5 EUT OPERATION CONDITIONS	62
5.1.6 TEST RESULTS	63

Report No.: NEI-FICP-1-1401C054 Page 3 of 110

STL V	Neutron Engineering Inc.
VIRC	Table of Contents

Table o	f Contents	Page
6 . AVERAGE TIME OF OCCUPAN	CY	65
6.1 APPLIED PROCEDURES / LIN	ит	65
6.1.1 MEASUREMENT INSTRU		65
6.1.2 TEST PROCEDURE	MENTO LIGI	65
6.1.3 DEVIATION FROM STAN	DARD	65
6.1.4 TEST SETUP		66
6.1.5 EUT OPERATION CONDI	TIONS	66
6.1.6 TEST RESULTS		67
7 . HOPPING CHANNEL SEPARAT	TION MEASUREMENT	79
7.1 APPLIED PROCEDURES / LIN	IIT	79
7.1.1 MEASUREMENT INSTRU	MENTS LIST AND SETTING	79
7.1.2 TEST PROCEDURE		79
7.1.3 DEVIATION FROM STAN	DARD	79
7.1.4 TEST SETUP		79
7.1.5 EUT OPERATION CONDI	TIONS	79
7.1.6 TEST RESULTS		80
8. BANDWIDTH TEST		84
8.1 APPLIED PROCEDURES / LIN	IIT	84
8.1.1 MEASUREMENT INSTRU	MENTS LIST AND SETTING	84
8.1.2 TEST PROCEDURE		84
8.1.3 DEVIATION FROM STAN	DARD	84
8.1.4 TEST SETUP		84
8.1.5 EUT OPERATION CONDI	TIONS	84
8.1.6 TEST RESULTS		85
9 . PEAK OUTPUT POWER TEST		89
9.1 APPLIED PROCEDURES / LIN	IIT	89
9.1.1 MEASUREMENT INSTRU	MENTS LIST AND SETTING	89
9.1.2 TEST PROCEDURE		89
9.1.3 DEVIATION FROM STAN	DARD	89
9.1.4 TEST SETUP		89
9.1.5 EUT OPERATION CONDI	TIONS	89
9.1.6 TEST RESULTS		90
10 . ANTENNA CONDUCTED SPU	RIOUS EMISSION	94
10.1 APPLIED PROCEDURES / LI	MIT	94
10.1.1 MEASUREMENT INSTR	UMENTS LIST AND SETTING	94
10.1.2 TEST PROCEDURE		94
10.1.3 DEVIATION FROM STAN	NDARD	94
10.1.4 TEST SETUP		94
10.1.5 EUT OPERATION COND	DITIONS	94
10.1.6 TEST RESULTS		95

Report No.: NEI-FICP-1-1401C054



Report No.: NEI-FICP-1-1401C054 Page 5 of 110



REPORT ISSUED HISTORY

Issued No.	Description	Issued Date
NEI-FICP-1-1401C054	Original Issue.	Jan. 20, 2014

Report No.: NEI-FICP-1-1401C054 Page 6 of 110

1. CERTIFICATION

Equipment : Double Spot

Brand Name: SOUNDFREAQ*

Model Name SFQ-09;SFQ-09RB

Applicant : Beautiful Enterprise Co., Ltd. Manufacture : Beautiful Enterprise Co., Ltd.

Address : 27th Floor, Beautiful Group Tower, 77 Connaught Road Central, Hong Kong

Factory : Shenzhen Synchron Electronics Co., Ltd.

Address : No. 9 Mei Li Road, Xia Mei Lin, Fu Tian Area, Shenzhen, Guangdong, China

Date of Test : Jan. 09, 2014 ~ Jan. 16, 2014 Test Item : ENGINEERING SAMPLE

Standard(s) FCC Part15, Subpart C(15.247) / ANSI C63.4: 2009

FCC Public Notice DA 00-705, March 30, 2000.

Canada RSS-210:2010 RSS-GEN Issue 3, Dec 2010

The above equipment has been tested and found compliance with the requirement of the relative standards by Neutron Engineering Inc. EMC Laboratory.

The test data, data evaluation, and equipment configuration contained in our test report (Ref No. NEI-FICP-1-1401C054) were obtained utilizing the test procedures, test instruments, test sites that has been accredited by the Authority of TAF according to the ISO-17025 quality assessment standard and technical standard(s).

Report No.: NEI-FICP-1-1401C054 Page 7 of 110



2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standard(s):

Applied Standard(s): 47 CFR Part 15, Subpart C; Canada RSS-210:2010				
Standard(s) Section				
RSS-GEN Issue 3, Dec 2010	47 CFR Part 15	Test Item	Judgment	Remark
RSS-GEN Issue 3, Dec 2010 7.2.4	15.207	Conducted Emission	PASS	
RSS-210, Issue 8, Annex 8, Section 8.5	15.247(d)	Antenna conducted Spurious Emission	PASS	
RSS-210, Issue 8, Annex 8, Section A8.1(b)	15.247 (a)(1)	Hopping Channel Separation	PASS	
RSS-210 Annex 8 (A8.1b)	15.247 (b)(1)	Peak Output Power	PASS	
RSS-210, Issue 8, Annex 8, Section 8.5	15.247(d) 15.209	Radiated Spurious Emission	PASS	
RSS-210, Issue 8, Annex 8, Section A8.1(d)	15.247 (a)(1)(iii)	Number of Hopping Frequency	PASS	
RSS-210, Issue 8, Annex 8, Section A8.1(d)	15.247 (a)(1)(iii)	Dwell Time	PASS	
RSS-GEN Issue 3, Dec 2010 7.2.2	15.205	Restricted Bands	PASS	
RSS-210, Issue 8, Annex 8, Section A8.4	15.203	Antenna Requirement	PASS	

NOTE:

- (1)" N/A" denotes test is not applicable in this test report.
- (2) According to FCC Public Notice DA 00-705, March 30, 2000.

Report No.: NEI-FICP-1-1401C054 Page 8 of 110

2.1 TEST FACILITY

The test facilities used to collect the test data in this report is **DG-C02/DG-CB03** at the location of No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.523792

Neutron's test firm number for FCC 319330

Neutron's test firm number for IC 4428B-1

2.2 MEASUREMENT UNCERTAINTY

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

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately 95 %.

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U , (dB)	NOTE
DG-C02	CISPR	150 KHz ~ 30MHz	1.94	

B. Radiated Measurement:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)	NOTE
		9KHz~30MHz	V	3.79	
		9KHz~30MHz	Н	3.57	
		30MHz ~ 200MHz	V	3.82	
		30MHz ~ 200MHz	Н	3.60	
DG-CB03	CISPR	200MHz ~ 1,000MHz	V	3.86	
DG-CB03	CISEIX	200MHz ~ 1,000MHz	Н	3.94	
		1GHz~18GHz	V	3.12	
	_	1GHz~18GHz	Н	3.68	
		18GHz~40GHz	V	4.15	
		18GHz~40GHz	Н	4.14	

Report No.: NEI-FICP-1-1401C054 Page 9 of 110



3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

Equipment	Double Spot		
Brand Name	SOUNDFREAQ®		
Model Name	SFQ-09;SFQ-09RB		
Model Difference	The built-in rechargeable Li-lor isn't used for SFQ-09	n Battery Pack(7.4V, 1800mAh)	
	Operation Frequency	2402~2480 MHz	
	Modulation Technology	GFSK(1Mbps) π/4-DQPSK(2Mbps)	
	Bit Rate of Transmitter	8-DPSK(3Mbps)	
Product Description	Output Power	4.66 dBm (1Mbps) 4.29 dBm (3Mbps)	
	Antenna	Refer to Note 3	
	More details of EUT technical specification, please refer to the User's Manual.		
Power Source	DC voltage supplied from Adapter Model:AS300-120-AA250		
Power Rating	I/P100-240V~50/60Hz 1.1A O/P DC12.0V 2.5A		
Connecting I/O Port(s)	Please refer to the User's Manual		

Note:

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

Report No.: NEI-FICP-1-1401C054 Page 10 of 110



2.

	Channel List				
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

Table for Filed Antenna

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Printed Antenna	N/A	-1.72

Report No.: NEI-FICP-1-1401C054 Page 11 of 110

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 2	Normal Link

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

For Conducted Emission	
Final Test Mode	Description
Mode 2	Normal Link

For Radiated Emission				
Final Test Mode	Description			
Mode 1	TX			

Note:

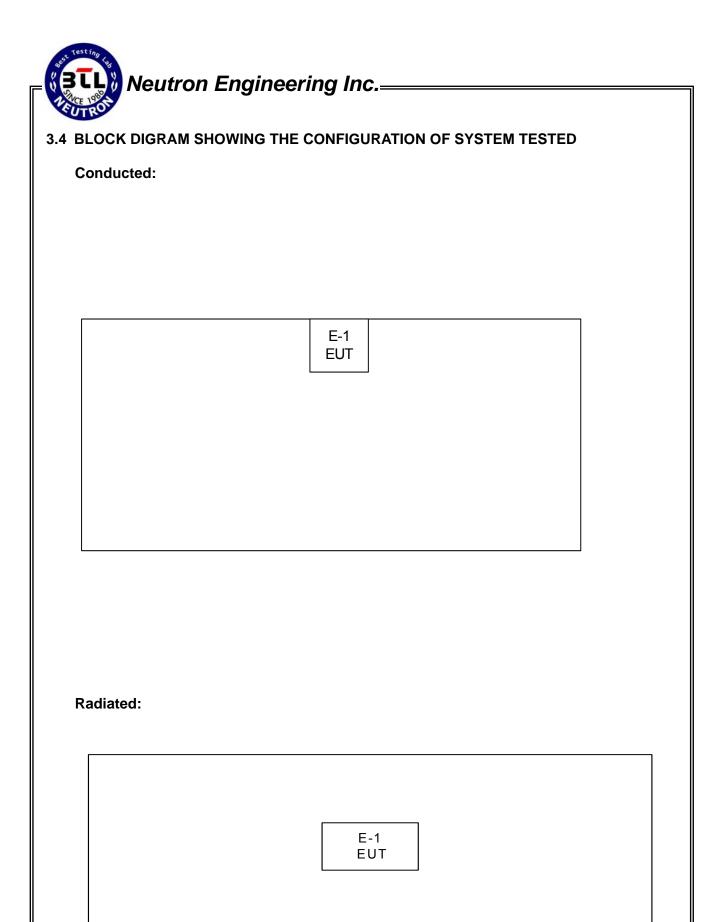
(1) The measurements are performed at the high, middle, low available channels.

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 FHSS

Test software version	CSR				
Frequency	2402 MHz	2441 MHz	2480 MHz		
Parameters-1Mbps	50	20	20		
Parameters-3Mbps	57	37	37		

Report No.: NEI-FICP-1-1401C054 Page 12 of 110



Report No.: NEI-FICP-1-1401C054 Page 13 of 110

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 / IC	Series No.	Note
E-1	Double Spot	SOUNDFREAQ®	SFQ-09	UZZSFQ09/ 7633A-SFQ09	N/A	EUT

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

Note:

(1) For detachable type I/O cable should be specified the length in m in <code>[Length]</code> column.

Report No.: NEI-FICP-1-1401C054 Page 14 of 110

4. EMC EMISSION TEST

4.1 CONDUCTED EMISSION MEASUREMENT

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

FREQUENCY (MHz)	Class A	(dBuV)	Class B	Standard		
FREQUENCT (MHZ)	Quasi-peak Average		Quasi-peak	Average	Standard	
0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	CISPR	
0.50 -5.0	73.00	60.00	56.00	46.00	CISPR	
5.0 -30.0	73.00	60.00	60.00	50.00	CISPR	

0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
0.50 -5.0	73.00	60.00	56.00	46.00	FCC
5.0 -30.0	73.00	60.00	60.00	50.00	FCC

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.

4.1.2 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	LISN	EMCO	3816/2	00052765	Apr. 25, 2014
2	LISN	R&S	ENV216 100087		Nov.15, 2014
3	Test Cable	N/A	C_17	N/A	Mar.15, 2014
4	EMI TEST RECEIVER	R&S	ESCS30	826547/022	Apr. 25, 2014
5	50Ω Terminator	SHX	TF2-3G-A	08122902	Apr. 25, 2014

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

All calibration period of Equipment List is One Year.

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		

Report No.: NEI-FICP-1-1401C054 Page 15 of 110

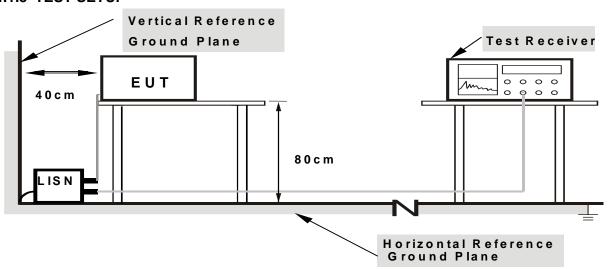
4.1.3 TEST PROCEDURE

- 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 equipments 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.

4.1.4 DEVIATION FROM TEST STANDARD

No deviation

4.1.5 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

4.1.6 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT is continue transmitter/receive data or Hopping on mode.

Report No.: NEI-FICP-1-1401C054 Page 16 of 110

4.1.7 TEST RESULTS

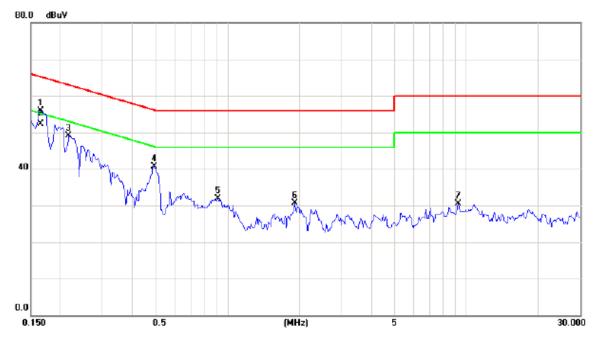
Remark

- (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) All readings are peak mode value. If the value of peak trace is less than -6 , QP will not be marked. Otherwise QP and AVG will be marked.
- (3) Measuring frequency range from 150KHz to 30MHz.

Report No.: NEI-FICP-1-1401C054 Page 17 of 110



EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	23 ℃	Relative Humidity:	50 %
Test Power:	AC 120V/60Hz	Phase:	Line
Test Mode:	Normal Link		

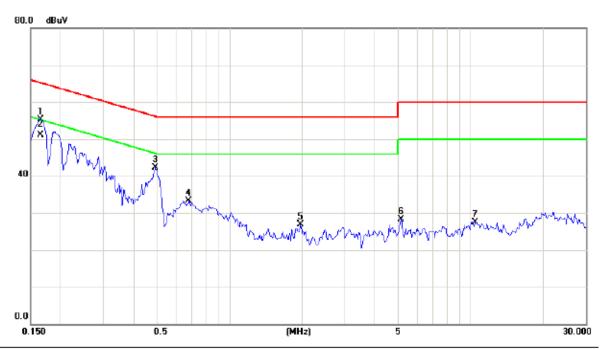


No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1655	46.21	9.63	55.84	65.18	-9.34	peak	
2 *	0.1655	42.71	9.63	52.34	55.18	-2.84	AVG	
3	0.2164	39.52	9.65	49.17	62.96	-13.79	peak	
4	0.4938	31.01	9.70	40.71	56.10	-15.39	peak	
5	0.9117	22.24	9.74	31.98	56.00	-24.02	peak	
6	1.9117	20.84	9.83	30.67	56.00	-25.33	peak	
7	9.2617	20.50	10.05	30.55	60.00	-29.45	peak	

Report No.: NEI-FICP-1-1401C054 Page 18 of 110



EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	23 ℃	Relative Humidity:	50 %
Test Power:	AC 120V/60Hz	Phase:	Neutral
Test Mode:	Normal Link		



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1655	45.57	9.70	55.27	65.18	-9.91	peak	
2 *	0.1655	41.32	9.70	51.02	55.18	-4.16	AVG	
3	0.4938	32.66	9.74	42.40	56.10	-13.70	peak	
4	0.6813	23.49	9.75	33.24	56.00	-22.76	peak	
5	1.9703	17.00	9.86	26.86	56.00	-29.14	peak	
6	5.1406	18.38	9.95	28.33	60.00	-31.67	peak	
7	10.4220	17.33	10.21	27.54	60.00	-32.46	peak	

Report No.: NEI-FICP-1-1401C054 Page 19 of 110

4.2 RADIATED EMISSION MEASUREMENT

4.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Frequencies	Field Strength	Measurement Distance
(MHz)	(micorvolts/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 1000MHz)

EDEOLIENCY (MH-)	(dBuV/n	n) (at 3M)
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).

Report No.: NEI-FICP-1-1401C054 Page 20 of 110



4.2.2 MEASUREMENT INSTRUMENTS LIST ANS SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Antenna	Schwarbeck	VULB9160 9160-3232		Apr. 25, 2014
2	Amplifier	HP	8447D	2944A09673	Apr. 25, 2014
3	Test Receiver	R&S	ESCI	100382	Apr. 25, 2014
4	Test Cable	N/A	C-01_CB03	N/A	Jun.29.2014
5	Antenna	ETS	3115	00075789	Apr. 25, 2014
6	Amplifier	Agilent	8449B	3008A02274	Apr. 25, 2014
7	Spectrum	Agilent	E4408B	US39240143	Nov. 16.2014
8	Test Cable	HUBER+SUHNER	C-45	N/A	May.01.2014
9	Controller	СТ	SC100	N/A	N/A
10	Horn Antenna	EMCO	3115	9605-4803	Apr. 25, 2014
11	Active Loop Antenna	· RA3		830749/020	Apr. 25, 2014
12	Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	9170319	Oct.11.2014

Report No.: NEI-FICP-1-1401C054 Page 21 of 110



4.2.3 TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters 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 EUT was placed on the top of a rotating table 0.8 meters 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 0.8 m; 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. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.2.4 DEVIATION FROM TEST STANDARD

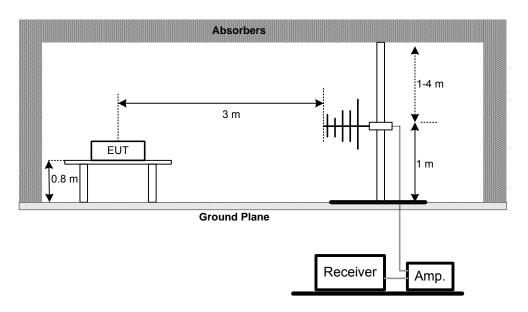
No deviation

Report No.: NEI-FICP-1-1401C054 Page 22 of 111

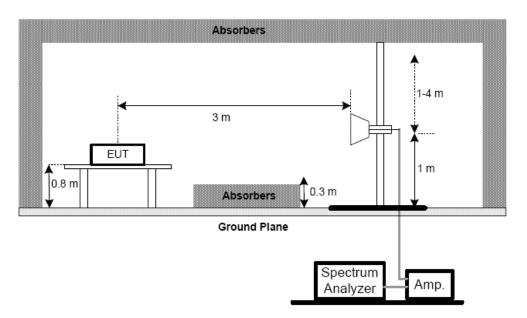


4.2.5 TEST SETUP

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



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



Report No.: NEI-FICP-1-1401C054 Page 23 of 111



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	46 %
Test Voltage:	AC120V/60Hz		
Test Mode:	TX Mode		

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	NOLE
0.00938	0°	16.86	23.27	40.13	128.16	-88.03	AVG
0.00938	0°	19.52	23.27	42.79	148.16	-105.37	PEAK
0.0142	0°	18.89	23.27	42.16	124.56	-82.40	AVG
0.0142	0°	20.54	23.27	43.81	144.56	-100.75	PEAK
0.0247	0°	16.19	24.00	40.19	119.75	-79.56	AVG
0.0247	0°	19.75	24.00	43.75	139.75	-96.00	PEAK
0.0335	0°	18.16	23.45	41.61	117.10	-75.49	AVG
0.0335	0°	20.41	23.45	43.86	137.10	-93.24	PEAK
0.421	0°	18.64	19.99	38.63	95.12	-56.49	AVG
0.421	0°	21.91	19.99	41.90	115.12	-73.22	PEAK
1.525	0°	18.82	19.55	38.37	63.94	-25.57	QP

Freq.	Ant.	Reading(RA)	Corr.Factor(CF)	Measured(FS)	Limits(QP)	Margin	Note
(MHz)	0°/90°	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	TVOLC
0.00925	90°	18.03	24.3	42.33	128.28	-85.95	AVG
0.00925	90°	20.46	24.3	44.76	148.28	-103.52	PEAK
0.0237	90°	17.55	24.07	41.62	120.11	-78.49	AVG
0.0237	90°	20.33	24.07	44.4	140.11	-95.71	PEAK
0.0318	90°	18.43	23.55	41.98	117.56	-75.58	AVG
0.0318	90°	20.67	23.55	44.22	137.56	-93.34	PEAK
0.0429	90°	17.85	22.85	40.7	114.96	-74.26	AVG
0.0429	90°	20.39	22.85	43.24	134.96	-91.72	PEAK
0.239	90°	17.45	20.42	37.87	100.04	-62.17	AVG
0.239	90°	20.72	20.42	41.14	120.04	-78.90	PEAK
1.675	90°	18.63	19.53	38.16	63.12	-24.96	QP

Remark:

- (1) The amplitude of spurious emissions which are attenuated by more than 20 dB belc 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..

Report No.: NEI-FICP-1-1401C054 Page 24 of 110

4.2.7 TEST RESULTS (BETWEEN30 - 1000 MHZ)

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Mode or Peak Mode with Detector BW=120KHz; SPA setting in RBW=120KHz, VBW =120KHz, Swp. Time = 0.3 sec./MHz.
- (2) 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.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.

Report No.: NEI-FICP-1-1401C054 Page 25 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Vertical
Test Mode:	TX 2402MHz - CH00-1Mbps		



No.	Mk	. Freq.	Level	Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	142.5200	53.22	-13.77	39.45	43.50	-4.05	peak	
2		364.6500	50.96	-10.99	39.97	46.00	-6.03	peak	
3	İ	497.5400	51.18	-10.28	40.90	46.00	-5.10	peak	
4		633.3400	43.44	-6.42	37.02	46.00	-8.98	peak	
5		801.1500	38.84	-3.12	35.72	46.00	-10.28	peak	
6		939.8600	36.05	-0.67	35.38	46.00	-10.62	peak	

Report No.: NEI-FICP-1-1401C054 Page 26 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2402MHz - CH00-1Mbps		

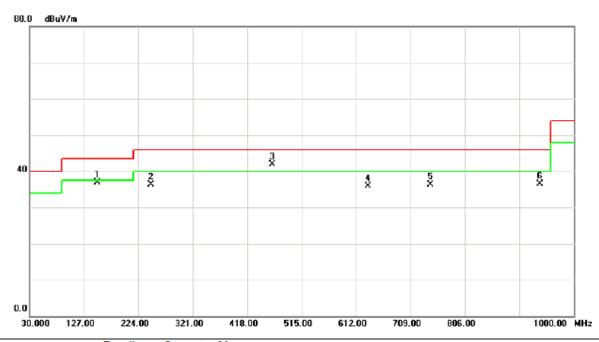


No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		144.4600	47.66	-13.76	33.90	43.50	-9.60	peak	
2	*	239.5200	56.94	-14.80	42.14	46.00	-3.86	peak	
3		445.1600	47.30	-9.01	38.29	46.00	-7.71	peak	
4		497.5400	44.03	-10.28	33.75	46.00	-12.25	peak	
5		663.4100	36.19	-5.37	30.82	46.00	-15.18	peak	
6		783.6900	34.58	-3.69	30.89	46.00	-15.11	peak	

Report No.: NEI-FICP-1-1401C054 Page 27 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Vertical
Test Mode:	TX 2441MHz - CH39-1Mbps		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		150.2800	50.57	-13.73	36.84	43.50	-6.66	peak	
2		246.3100	51.32	-14.92	36.40	46.00	-9.60	peak	
3	*	462.6200	51.25	-9.27	41.98	46.00	-4.02	peak	
4		633.3400	42.33	-6.42	35.91	46.00	-10.09	peak	
5		743.9200	41.12	-4.89	36.23	46.00	-9.77	peak	
6		939.8600	37.24	-0.67	36.57	46.00	-9.43	peak	

Report No.: NEI-FICP-1-1401C054 Page 28 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2441MHz - CH39-1Mbps		



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		126.0300	41.46	-13.56	27.90	43.50	-15.60	peak	
2	*	259.8900	54.98	-14.75	40.23	46.00	-5.77	peak	
3		455.8300	47.37	-9.08	38.29	46.00	-7.71	peak	
4		499.4800	46.09	-10.33	35.76	46.00	-10.24	peak	
5		731.3100	37.64	-4.87	32.77	46.00	-13.23	peak	
6		797.2700	33.31	-3.21	30.10	46.00	-15.90	peak	

Report No.: NEI-FICP-1-1401C054 Page 29 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Vertical
Test Mode:	TX 2480MHz - CH78-1Mbps		



	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
ľ			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	- :	264.7400	52.99	-14.34	38.65	46.00	-7.35	peak	
	2	,	364.6500	49.81	-10.99	38.82	46.00	-7.18	peak	
	3	*	469.4100	48.99	-9.46	39.53	46.00	-6.47	peak	
ľ	4	ļ	561.5600	44.30	-7.76	36.54	46.00	-9.46	peak	
ľ	5		709.0000	37.93	-4.83	33.10	46.00	-12.90	peak	
	6		799.2100	34.32	-3.14	31.18	46.00	-14.82	peak	
٠.										

Report No.: NEI-FICP-1-1401C054 Page 30 of 110



EUT:	Double Spot	Model Name:	SFQ-09		
Temperature:	24 ℃	Relative Humidity:	56 %		
Test Power:	AC120V/60Hz	Phase:	Horizontal		
Test Mode:	TX 2480MHz - CH78-1Mbps				

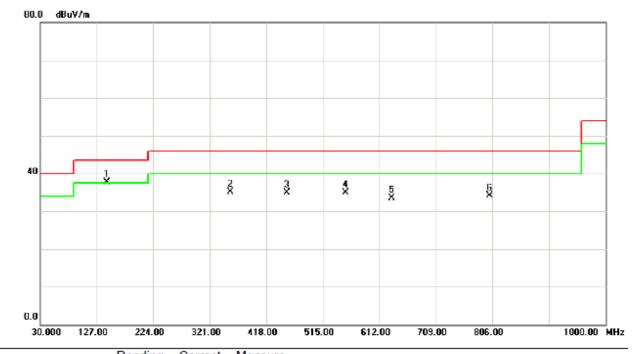


	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1	,	190.0500	48.67	-14.31	34.36	43.50	-9.14	peak	
	2	2	224.0000	50.14	-14.80	35.34	46.00	-10.66	peak	
-	3	* 4	131.5800	47.92	-9.27	38.65	46.00	-7.35	peak	
-	4	4	180.0800	43.53	-9.77	33.76	46.00	-12.24	peak	
-	5	1	731.3100	38.54	-4.87	33.67	46.00	-12.33	peak	
-	6	Ç	938.8900	35.11	-0.69	34.42	46.00	-11.58	peak	
-										

Report No.: NEI-FICP-1-1401C054 Page 31 of 110



EUT:	Double Spot	Model Name:	SFQ-09	
Temperature:	24 ℃	Relative Humidity: 56 %		
Test Power:	AC120V/60Hz	Phase:	Vertical	
Test Mode:	TX 2402MHz - CH00-3Mbps			



No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	144.4600	51.49	-13.76	37.73	43.50	-5.77	peak	
2		355.9200	46.43	-11.27	35.16	46.00	-10.84	peak	
3		452.9200	43.83	-8.99	34.84	46.00	-11.16	peak	
4		554.7700	42.69	-7.69	35.00	46.00	-11.00	peak	
5		633.3400	39.99	-6.42	33.57	46.00	-12.43	peak	
6		801.1500	37.30	-3.12	34.18	46.00	-11.82	peak	

Report No.: NEI-FICP-1-1401C054 Page 32 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2402MHz - CH00-3Mbps		

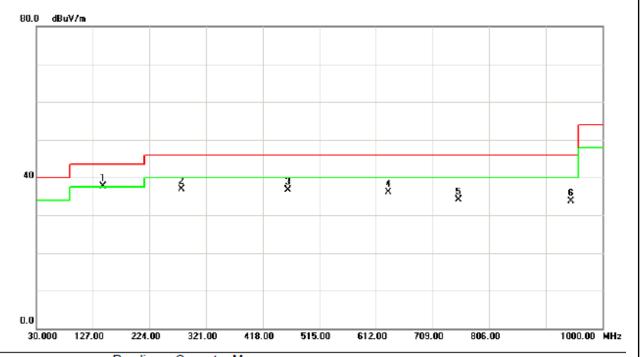


	No.	Mk.	. Freq.	Level	Factor	ment	Limit	Over		
ľ			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		144.4600	49.66	-13.76	35.90	43.50	-7.60	peak	
ľ	2	*	269.5900	53.79	-13.92	39.87	46.00	-6.13	peak	
	3		431.5800	48.08	-9.27	38.81	46.00	-7.19	peak	
	4		633.3400	37.00	-6.42	30.58	46.00	-15.42	peak	
	5		776.9000	39.92	-3.94	35.98	46.00	-10.02	peak	
	6		909.7900	34.76	-1.13	33.63	46.00	-12.37	peak	
										-

Report No.: NEI-FICP-1-1401C054 Page 33 of 110



EUT:	Double Spot	Model Name:	SFQ-09	
Temperature:	24 ℃	Relative Humidity: 56 %		
Test Power:	AC120V/60Hz	Phase:	Vertical	
Test Mode:	TX 2441MHz - CH39-3Mbps			

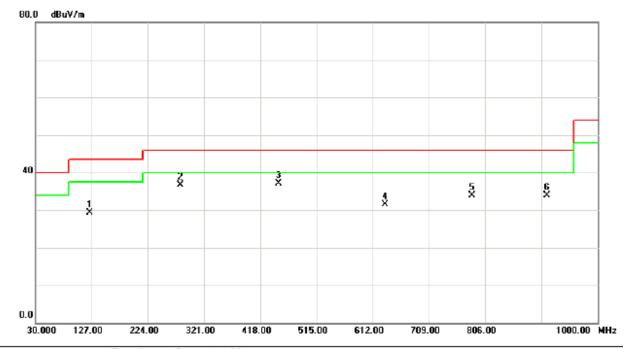


			Over	Limit	Measure- ment	Correct Factor	Reading Level	Freq.	Mk.	No.
	Comment	Detector	dB	dBuV/m	dBuV/m	dB	dBuV	MHz		
		peak	-5.85	43.50	37.65	-13.76	51.41	44.4600	* 1	1
		peak	-9.03	46.00	36.97	-12.77	49.74	78.3200	2	2
		peak	-9.37	46.00	36.63	-9.24	45.87	61.6500	4	3
		peak	-9.94	46.00	36.06	-6.42	42.48	33.3400	6	4
		peak	-11.90	46.00	34.10	-4.77	38.87	53.6200	7	5
		peak	-12.29	46.00	33.71	-0.58	34.29	46.6500	9	6
_ _ _	Somment	peak peak peak peak peak	-5.85 -9.03 -9.37 -9.94 -11.90	43.50 46.00 46.00 46.00 46.00	37.65 36.97 36.63 36.06 34.10	-13.76 -12.77 -9.24 -6.42 -4.77	51.41 49.74 45.87 42.48 38.87	278.3200 61.6500 633.3400 753.6200	2 4 6	3 4 5

Report No.: NEI-FICP-1-1401C054 Page 34 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2441MHz - CH39-3Mbps		



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
ľ			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	1		123.1200	43.02	-13.72	29.30	43.50	-14.20	peak	
·	2		280.2600	49.25	-12.52	36.73	46.00	-9.27	peak	
·	3	*	450.0100	45.92	-8.91	37.01	46.00	-8.99	peak	
	4		633.3400	37.86	-6.42	31.44	46.00	-14.56	peak	
	5		783.6900	37.52	-3.69	33.83	46.00	-12.17	peak	
	6		912.7000	35.05	-1.08	33.97	46.00	-12.03	peak	

Report No.: NEI-FICP-1-1401C054 Page 35 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Vertical
Test Mode:	TX 2480MHz - CH78-3Mbps		



No.	Mk.	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over			
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment	
1		144.4600	50.94	-13.76	37.18	43.50	-6.32	peak		
2		276.3800	48.70	-13.03	35.67	46.00	-10.33	peak		
3	*	455.8300	48.92	-9.08	39.84	46.00	-6.16	peak		
4		569.3200	46.27	-7.83	38.44	46.00	-7.56	peak		
5		782.7200	38.83	-3.72	35.11	46.00	-10.89	peak		
6		911.7300	36.10	-1.10	35.00	46.00	-11.00	peak		

Report No.: NEI-FICP-1-1401C054 Page 36 of 110



EUT:	Double Spot	Model Name:	SFQ-09
Temperature:	24 ℃	Relative Humidity:	56 %
Test Power:	AC120V/60Hz	Phase:	Horizontal
Test Mode:	TX 2480MHz - CH78-3Mbps		



No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		264.7400	52.99	-14.34	38.65	46.00	-7.35	peak	
2		364.6500	49.81	-10.99	38.82	46.00	-7.18	peak	
3	*	469.4100	48.99	-9.46	39.53	46.00	-6.47	peak	
4		561.5600	44.30	-7.76	36.54	46.00	-9.46	peak	
5		709.0000	37.93	-4.83	33.10	46.00	-12.90	peak	
6		799.2100	34.32	-3.14	31.18	46.00	-14.82	peak	

Report No.: NEI-FICP-1-1401C054 Page 37 of 110

4.2.8 TEST RESULTS (ABOVE 1000 MHZ)

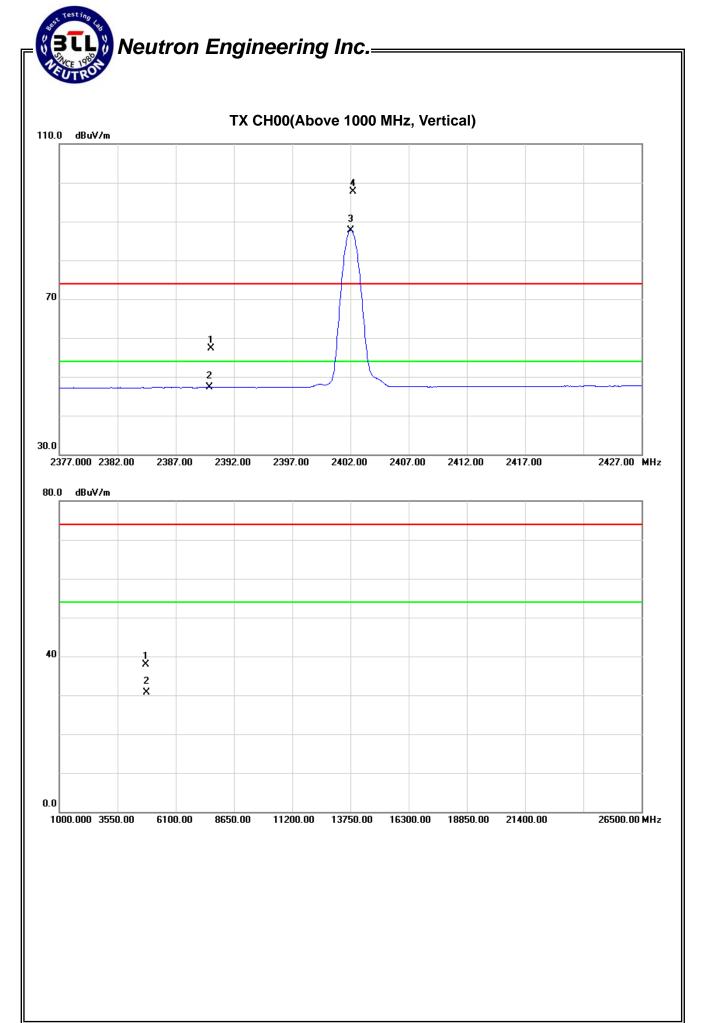
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	23.24	13.18	34.09	57.33	47.27	74.00	54.00	-16.67	-6.73	X/E
2402.50	٧	63.65	53.63	34.12	97.77	87.75					X/F
4804.03	V	31.59	24.38	6.38	37.97	30.76	74.00	54.00	-36.03	-23.24	X/H

Remark:

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (4) Data of measurement within this frequency range shown "*" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 38 of 110



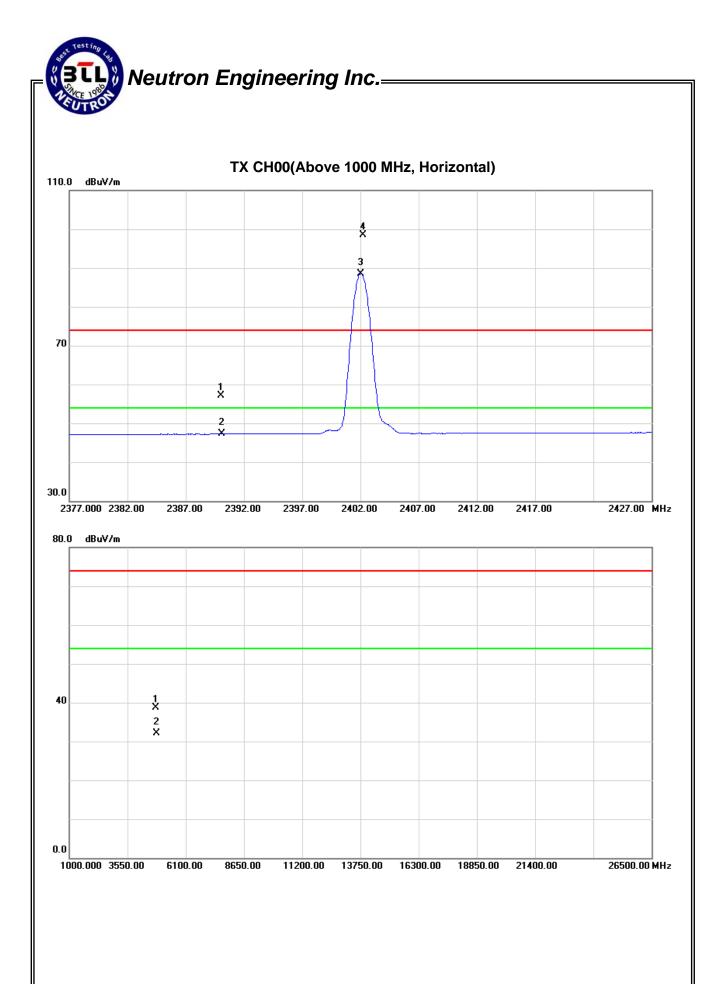
Report No.: NEI-FICP-1-1401C054 Page 39 of 110

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2402MHz – CH 00-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak AV		Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Η	23.11	13.16	34.09	57.20	47.25	74.00	54.00	-16.80	-6.75	X/E
2402.05	Н	64.39	54.36	34.12	98.51	88.48					X/F
4804.05	Н	32.34	32.59	6.38	38.72	38.97	74.00	54.00	-35.28	-15.03	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 40 of 110

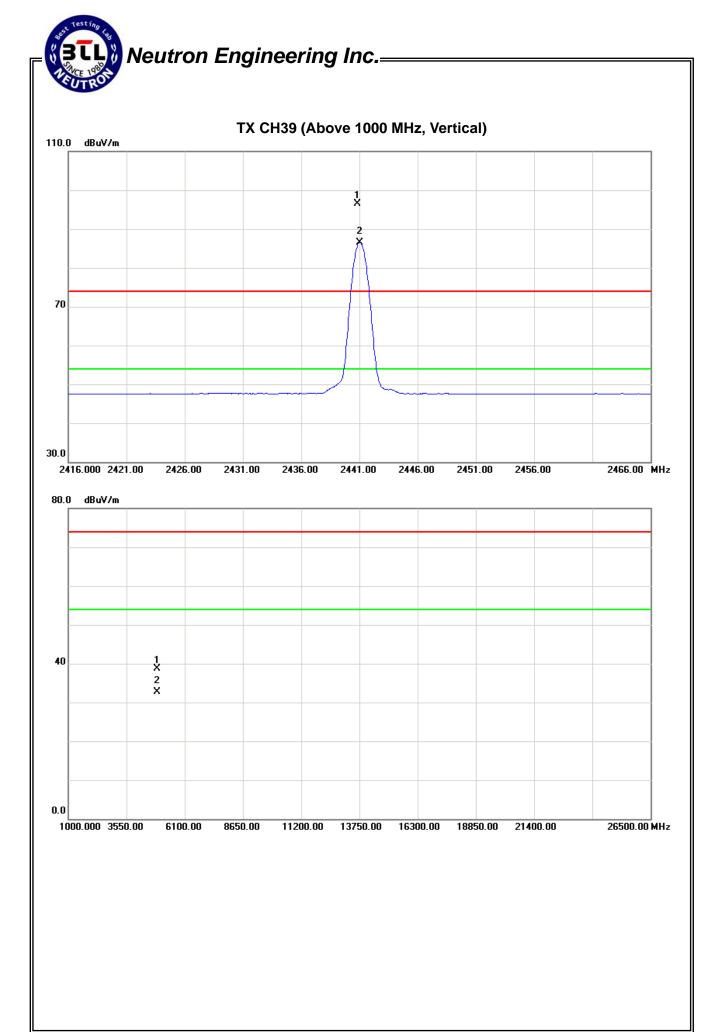


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ac	t.	Lir	nit	Mai	rgin	
i ieq.	Ant.Foi.	Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	Η/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.05	٧	62.19	52.34	34.25	96.44	86.59					X/F
4882.07	V	32.14	26.08	6.61	38.75	32.69	74.00	54.00	-35.25	-21.31	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 42 of 110



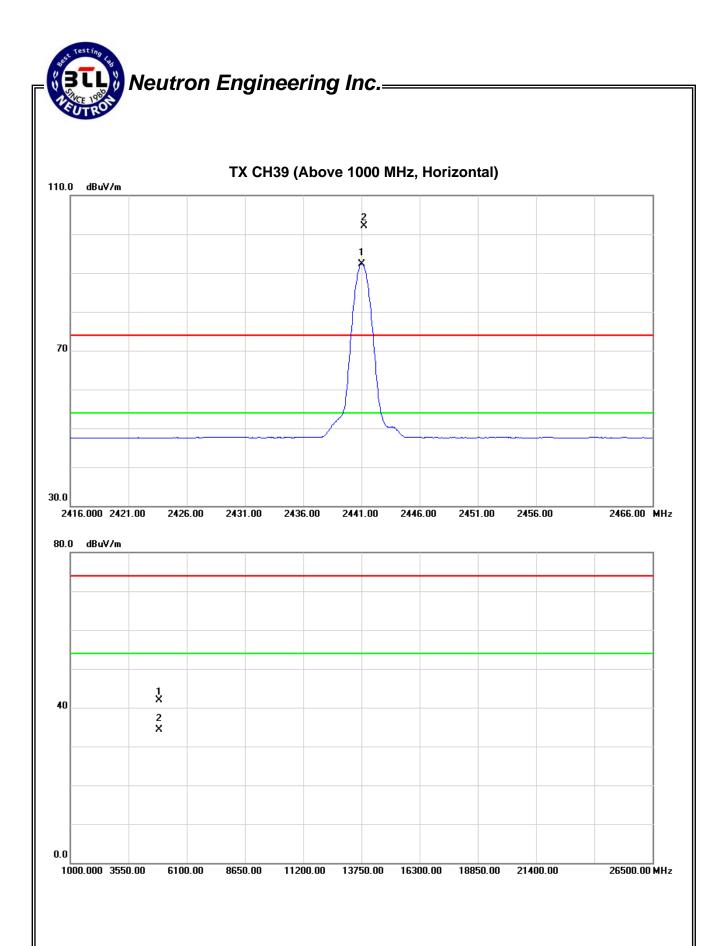
Report No.: NEI-FICP-1-1401C054 Page 43 of 110

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2441MHz –CH39-1Mbps		

Freq.	Ant.Pol.	Reading		Ant./CF	Ant./CF Act.		Limit		Margin		
i ieq.	Ant.1 01.	Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2441.20	Н	67.92	58.04	34.25	102.17	92.29					X/F
4882.05	Н	35.36	27.63	6.61	41.97	34.24	74.00	54.00	-32.03	-19.76	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 44 of 110

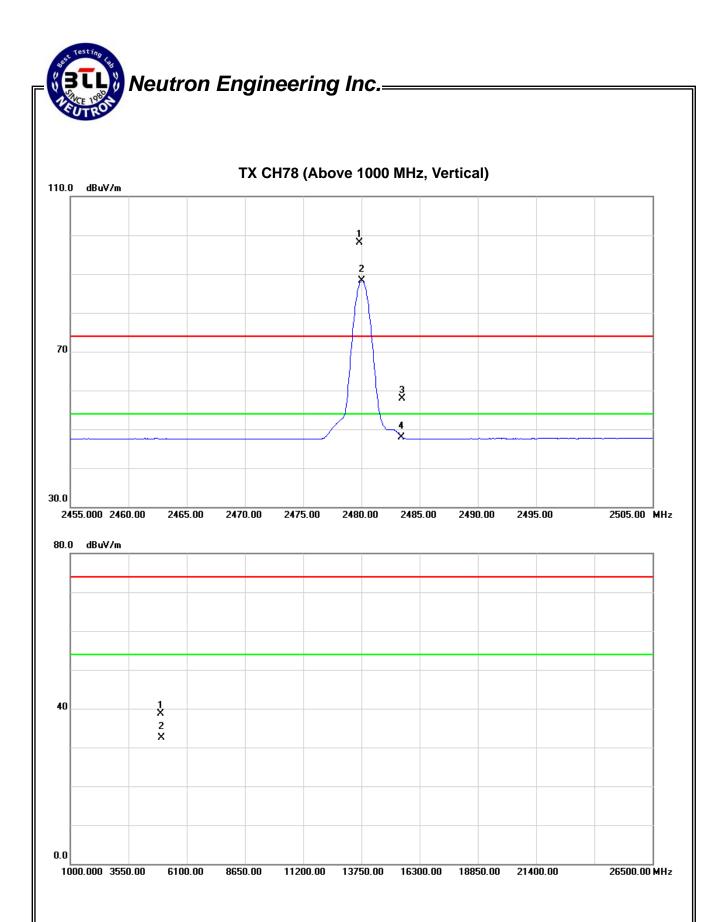


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2480.05	٧	63.80	53.89	34.36	98.16	88.25					X/F
2483.50	V	23.58	13.57	34.37	57.95	47.94	74.00	54.00	-16.05	-6.06	X/E
4960.07	V	31.85	25.76	6.83	38.68	32.59	74.00	54.00	-35.32	-21.41	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 46 of 110

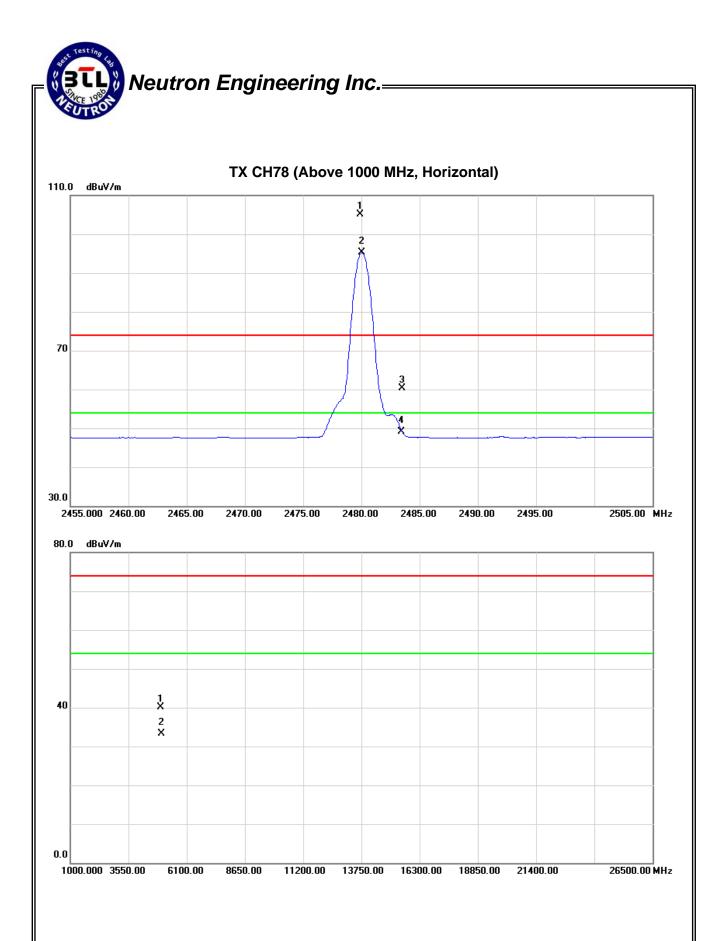


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2480MHz -CH78-1Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.90	Н	70.84	60.89	34.36	105.20	95.25					X/F
2483.50	Н	25.91	14.73	34.37	60.28	49.10	74.00	54.00	-13.72	-4.90	X/E
4960.02	Н	33.28	26.41	6.83	40.11	33.24	74.00	54.00	-33.89	-20.76	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 48 of 110

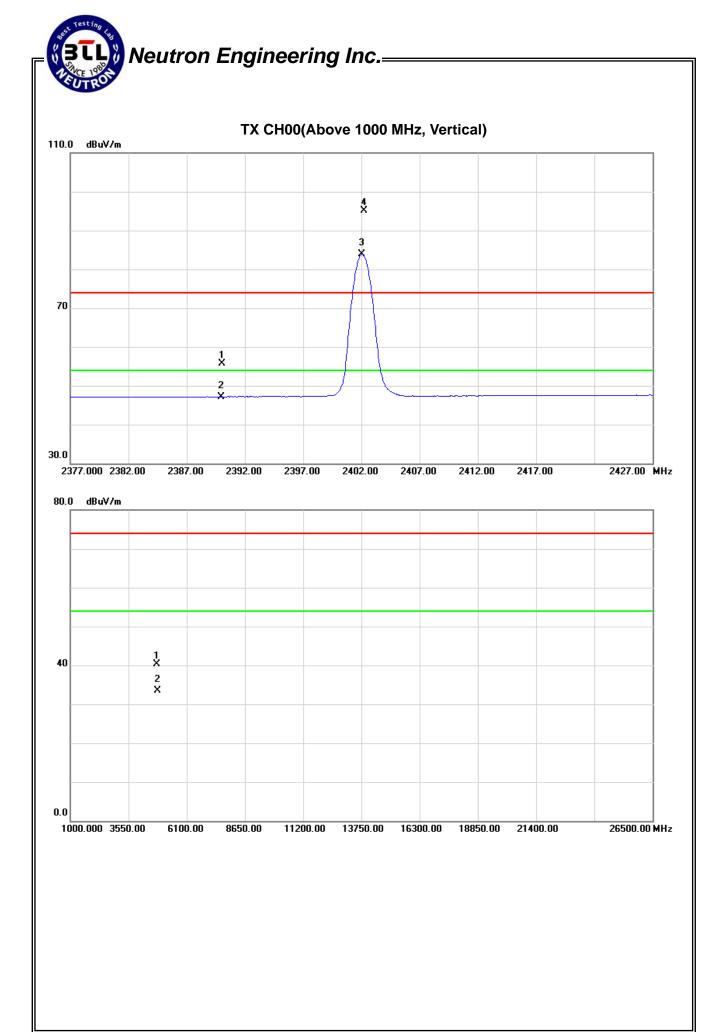


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Ma	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	V	21.66	13.11	34.09	55.75	47.20	74.00	54.00	-18.25	-6.80	X/E
2402.20	V	61.00	49.71	34.12	95.12	83.83					X/F
4804.09	V	33.84	27.17	6.38	40.22	33.55	74.00	54.00	-33.78	-20.45	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 50 of 110

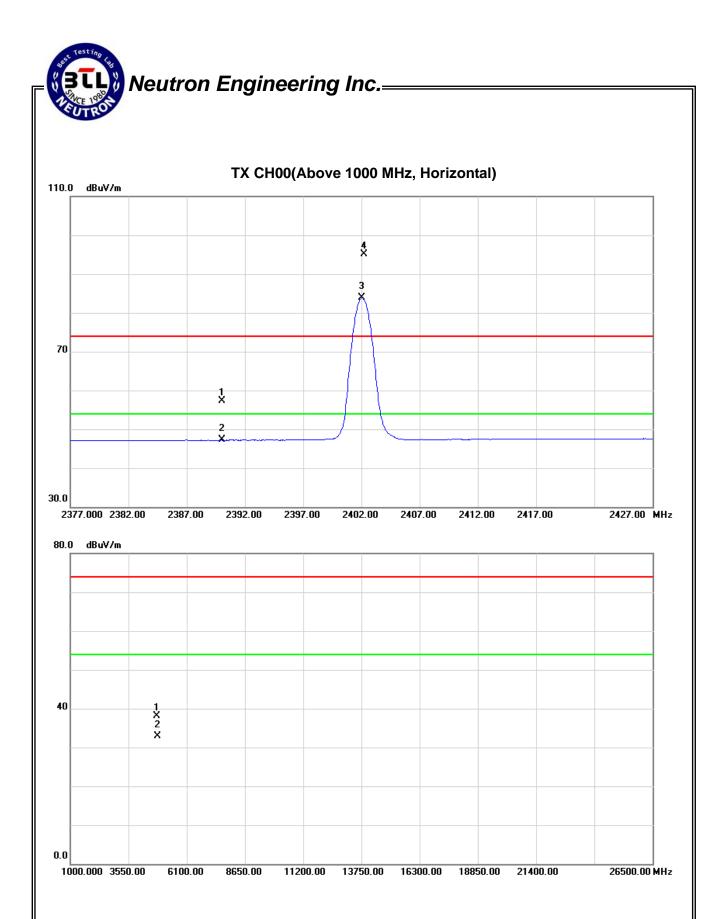


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2402MHz – CH 00-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Ma	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2390.00	Н	23.16	13.13	34.09	57.25	47.22	74.00	54.00	-16.75	-6.78	X/E
2402.05	Н	61.05	49.74	34.12	95.17	83.86					X/F
4804.07	Н	31.73	26.49	6.38	38.11	32.87	74.00	54.00	-35.89	-21.13	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 52 of 110

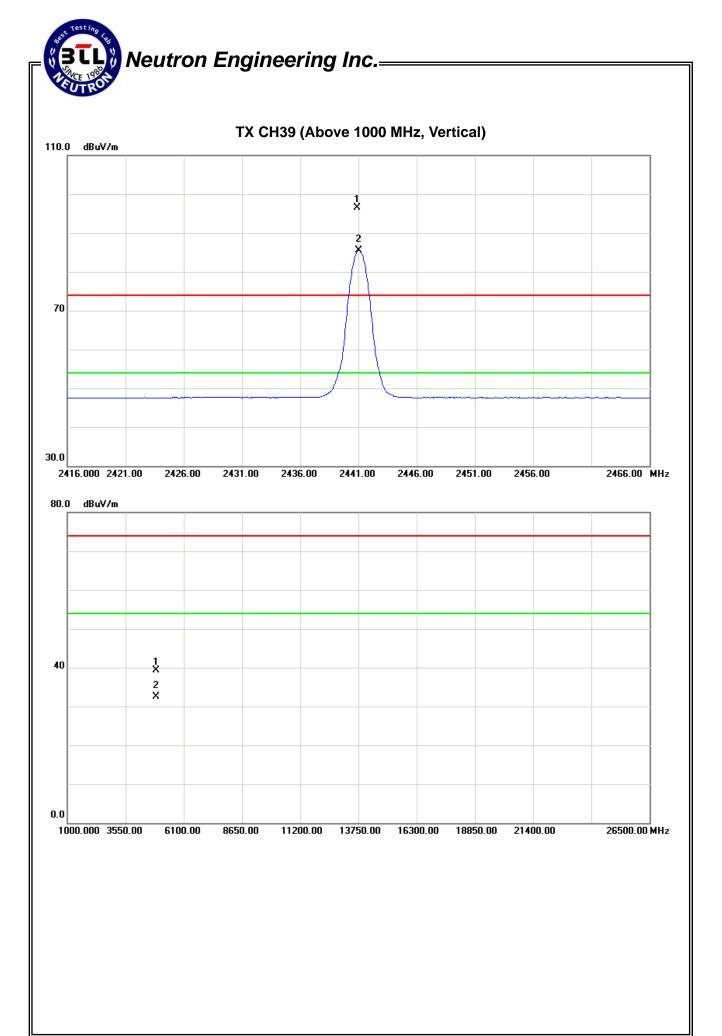


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2441MHz –CH39-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.90	٧	62.34	51.33	34.25	96.59	85.58					X/F
4882.06	V	32.74	25.89	6.61	39.35	32.50	74.00	54.00	-34.65	-21.50	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 54 of 110

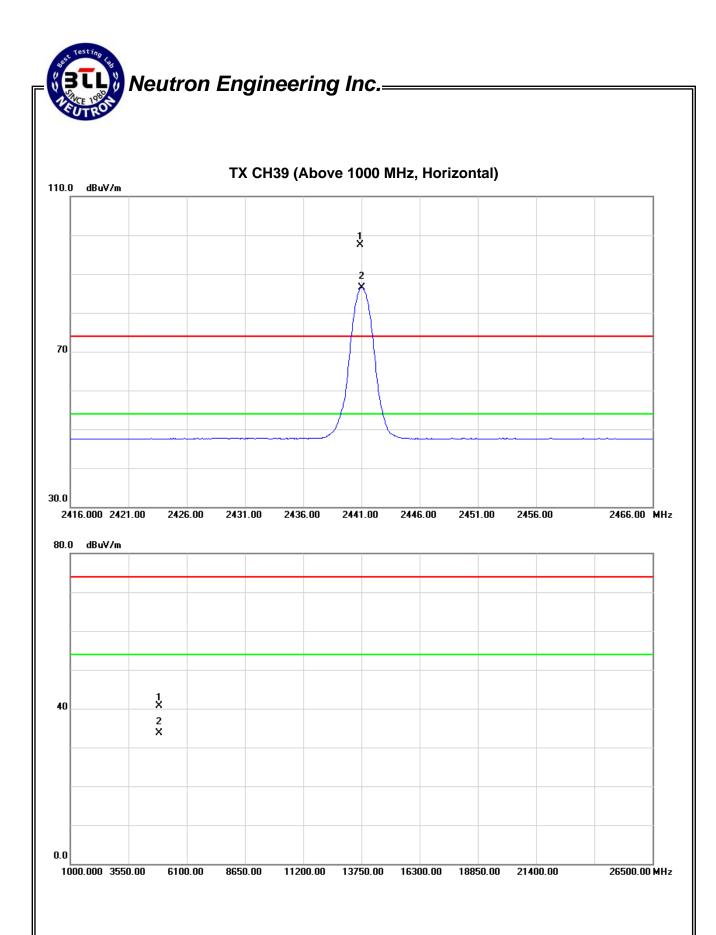


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2441MHz –CH39-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Ad	ct.	Lir	nit	Mai	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2440.90	Н	63.27	52.32	34.25	97.52	86.57					X/F
4882.01	Н	34.19	27.09	6.61	40.80	33.70	74.00	54.00	-33.20	-20.30	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 56 of 110

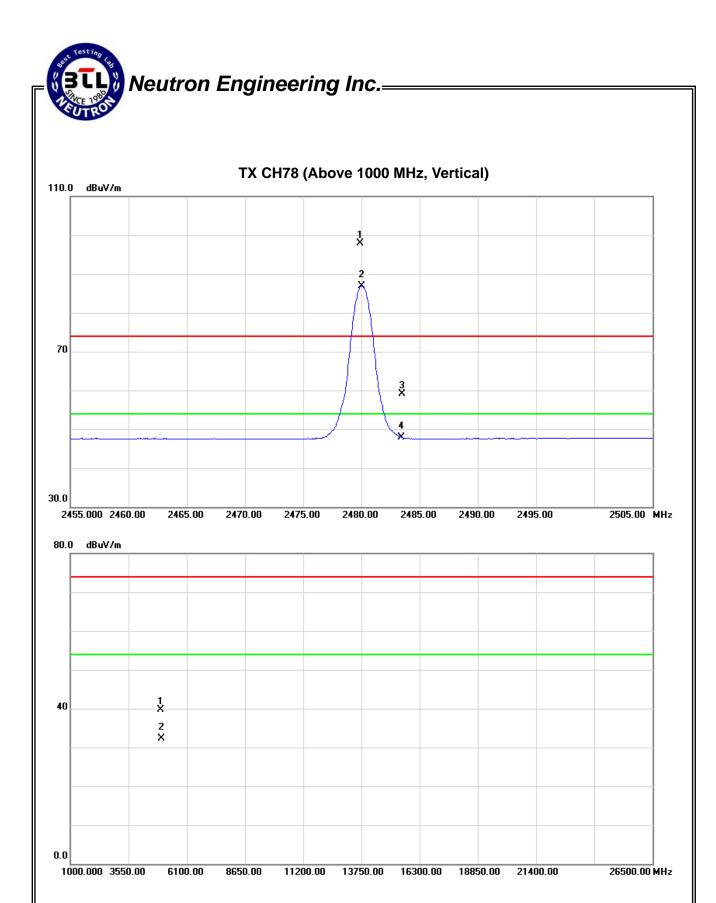


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq.	Ant.Pol.	Rea	ding	Ant./CF	Act.		Limit		Margin		
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.90	٧	63.51	52.62	34.36	97.87	86.98					X/F
2483.50	V	24.81	13.51	34.37	59.18	47.88	74.00	54.00	-14.82	-6.12	X/E
4960.04	V	32.89	25.49	6.83	39.72	32.32	74.00	54.00	-34.28	-21.68	X/H

- (1) 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.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 58 of 110

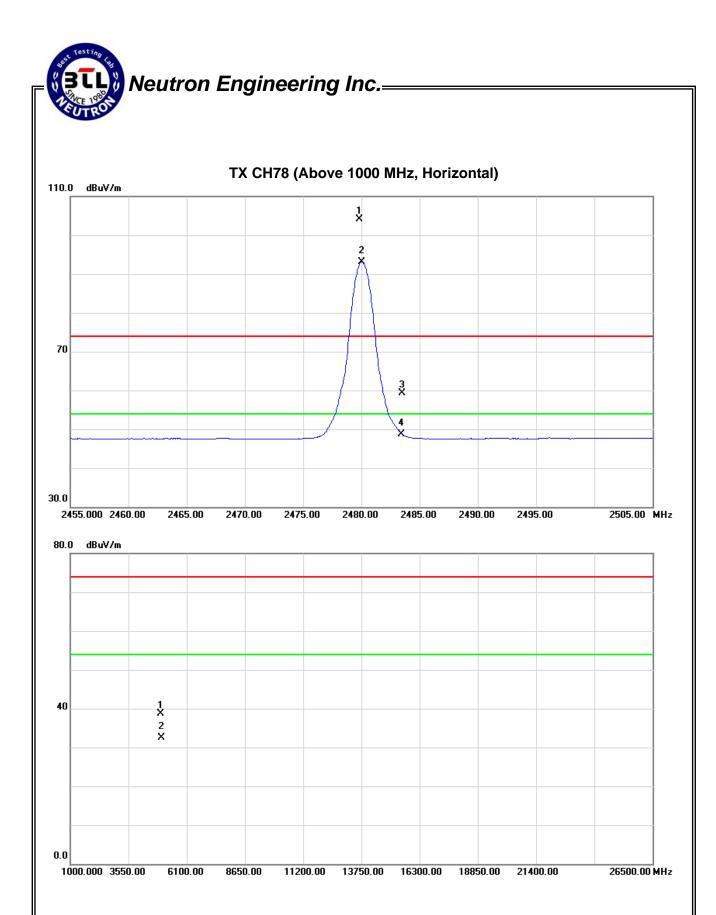


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1010 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	TX 2480MHz -CH78-3Mbps		

Freq.	Ant.Pol.	Rea	ading	Ant./CF	Α	ct.	Liı	mit	Ма	rgin	
		Peak	AV		Peak	AV	Peak	AV	Peak	AV	Note
(MHz)	H/V	(dBuV)	(dBuV)	CF(dB)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	(dBuV/m)	
2479.90	Н	69.69	58.76	34.36	104.05	93.12					X/F
2483.50	Н	25.02	14.40	34.37	59.39	48.77	74.00	54.00	-14.61	-5.23	X/E
4960.07	Н	31.85	25.76	6.83	38.68	32.59	74.00	54.00	-35.32	-21.41	X/H

- (1) All readings are Peak unless otherwise stated QP in column of <code>『Note』</code>. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (2) Measuring frequency range from 30MHz to 1000MHz or the 10th harmonic of highest fundamental frequency. "F" denotes fundamental frequency; "H" denotes spurious frequency. "E" denotes band edge frequency. (This judgment method includes the Band Edge Requirement.)
- (3) Radiated emissions measured in frequency range above 1000MHz were made with an instrument using Peak detector mode and AV detector mode of the emission .
- (4) Data of measurement within this frequency range shown " * " in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5) A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.
- (6) EUT Orthogonal Axis:
 - "X" denotes Laid on Table; "Y" denotes Vertical Stand; "Z" denotes Side Stand
- (7) During the measurements above 1 GHz it is taken care of that the EUT is always within the 3 dB cone of radiation BW of the used antenna

Report No.: NEI-FICP-1-1401C054 Page 60 of 110



5. NUMBER OF HOPPING CHANNEL

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Frequency Range (MHz)	Result	
15.247 (a)(1)(iii)	Number of Hopping Channel	2400-2483.5	PASS	

5.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2014

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

All calibration period of Equipment List is One Year.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> Operating Frequency Range
RB	100 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.2 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= 100KHz, VBW=100KHz, Sweep time = Auto.

5.1.3 DEVIATION FROM STANDARD

No deviation.

5.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

5.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

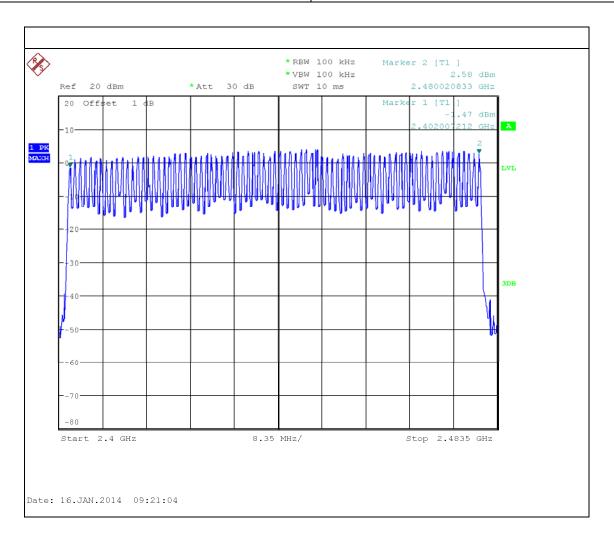
Report No.: NEI-FICP-1-1401C054 Page 62 of 110



5.1.6 TEST RESULTS

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	Hopping Mode -1Mbps		

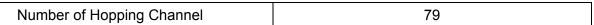
Number of Hopping Channel	79
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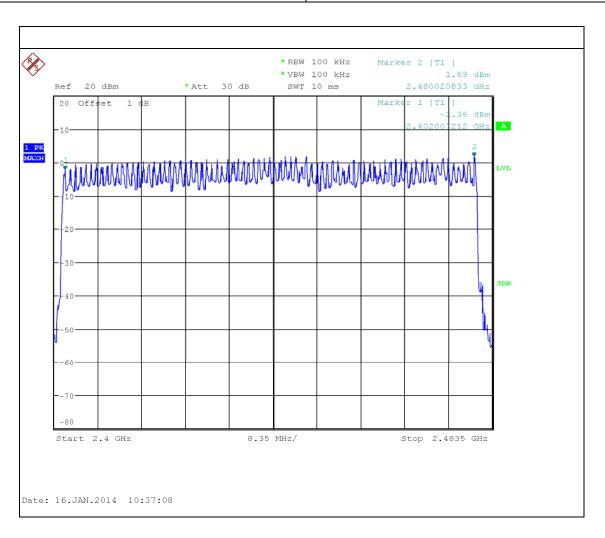


Report No.: NEI-FICP-1-1401C054 Page 63 of 110



EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	Hopping Mode -3Mbps		





Report No.: NEI-FICP-1-1401C054 Page 64 of 110

6. AVERAGE TIME OF OCCUPANCY

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C					
Section Test Item Limit			Frequency Range (MHz) Resul		
15.247 (a)(1)(iii)	Average Time of Occupancy	0.4sec	2400-2483.5	PASS	

6.1.1 MEASUREMENT INSTRUMENTS LIST

I	tem	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2014

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

All calibration period of Equipment List is One Year.

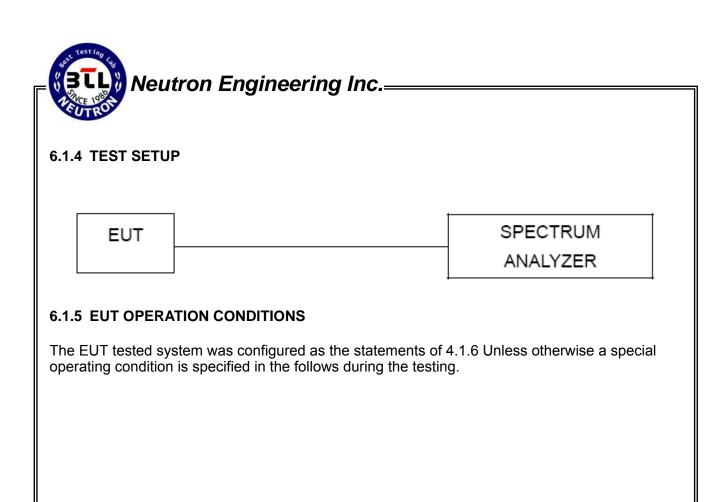
6.1.2 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyzer
- b. Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- c. Use a video trigger with the trigger level set to enable triggering only on full pulses.
- d. Sweep Time is more than once pulse time.
- e. Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- f Measure the maximum time duration of one single pulse.
- g. Set the EUT for DH5, DH3 and DH1 packet transmitting.
- h Measure the maximum time duration of one single pulse.
- i. DH5 Packet permit maximum 1600/79/6 = 3.37 hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds.
- j. DH3 Packet permit maximum 1600 / 79 / 4 = 5.06 hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times 5.06 x 31.6 = 160 within 31.6 seconds.
- k. DH1 Packet permit maximum 1600 / 79 /2 = 10.12 hops per second in each channel (1 time slot RX, 1 time slot TX). So, the dwell time is the time duration of the pulse times 10.12 x 31.6 = 320 within 31.6 seconds.

6.1.3 DEVIATION FROM STANDARD

No deviation.

Report No.: NEI-FICP-1-1401C054 Page 65 of 110

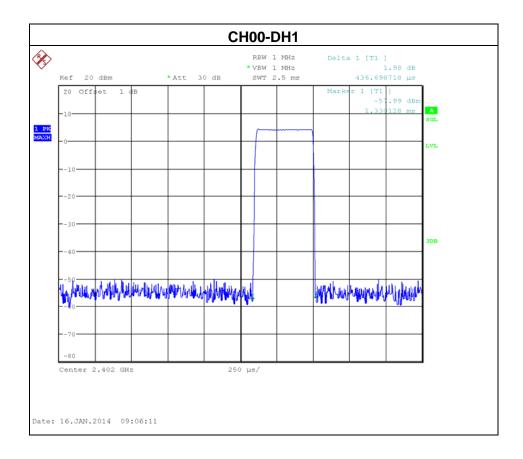


Report No.: NEI-FICP-1-1401C054 Page 66 of 110

6.1.6 TEST RESULTS

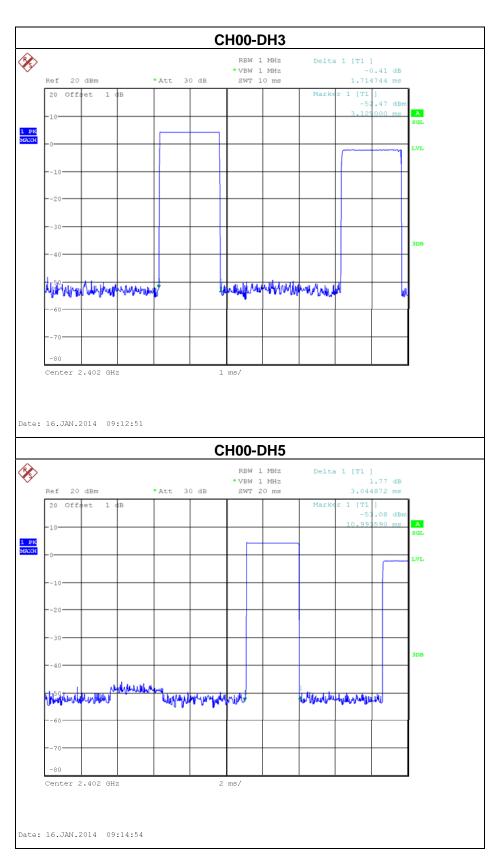
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.0448	0.3248	0.4000
DH3	2402 MHz	1.7147	0.2744	0.4000
DH1	2402 MHz	0.4360	0.1395	0.4000



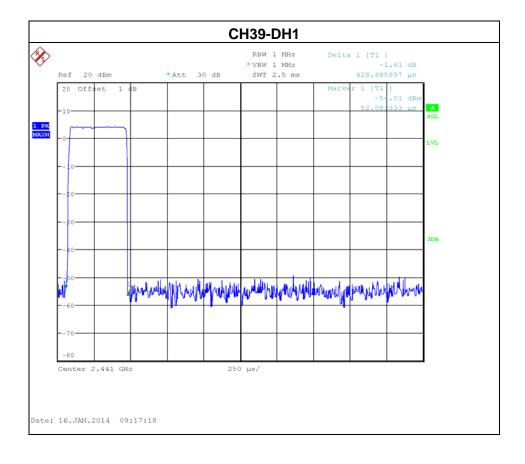
Report No.: NEI-FICP-1-1401C054 Page 67 of 110

Neutron Engineering Inc.



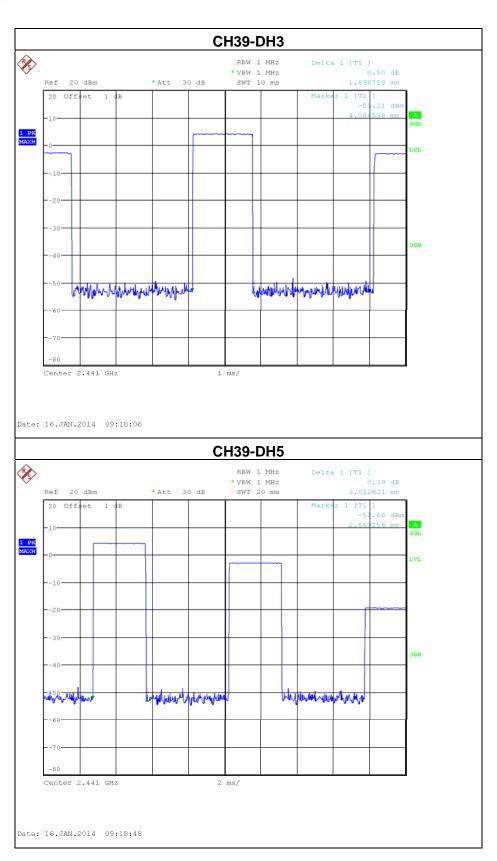
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5 -1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0128	0.3214	0.4000
DH3	2441 MHz	1.6987	0.2718	0.4000
DH1	2441 MHz	0.4280	0.1370	0.4000



Report No.: NEI-FICP-1-1401C054 Page 69 of 110

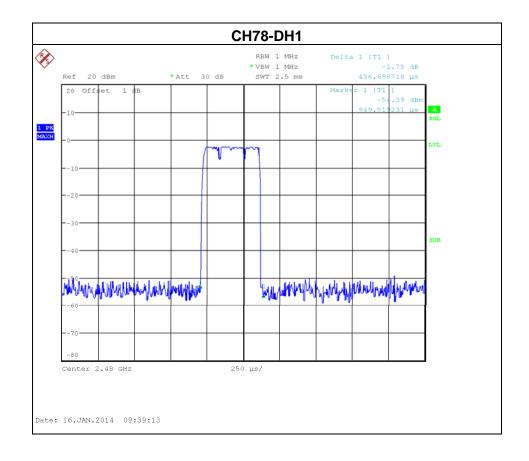
Neutron Engineering Inc.



Report No.: NEI-FICP-1-1401C054 Page 70 of 110

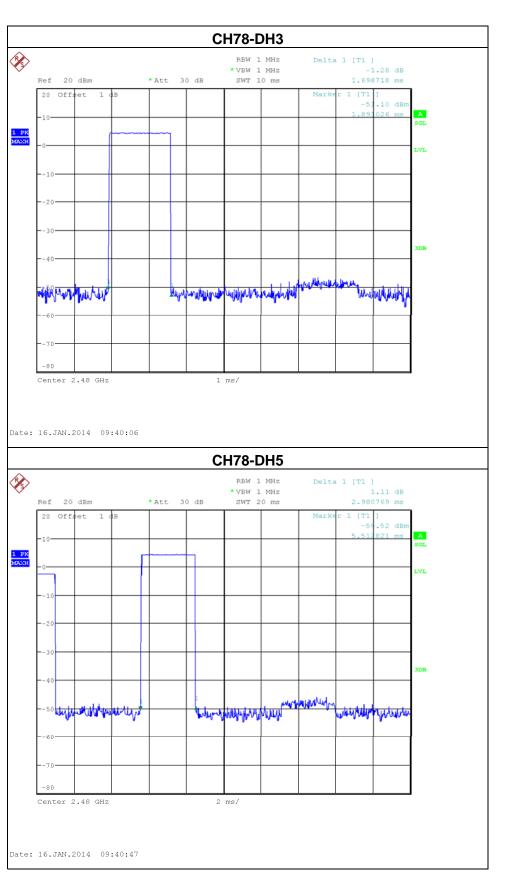
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-1Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	2.9807	0.3179	0.4000
DH3	2480 MHz	1.6987	0.2718	0.4000
DH1	2480 MHz	0.4366	0.1397	0.4000



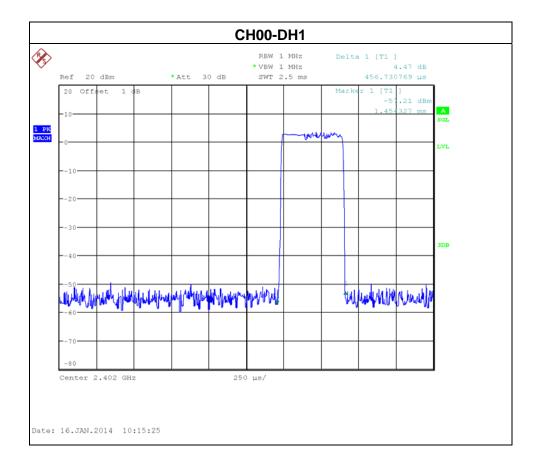
Report No.: NEI-FICP-1-1401C054 Page 71 of 110

Neutron Engineering Inc.

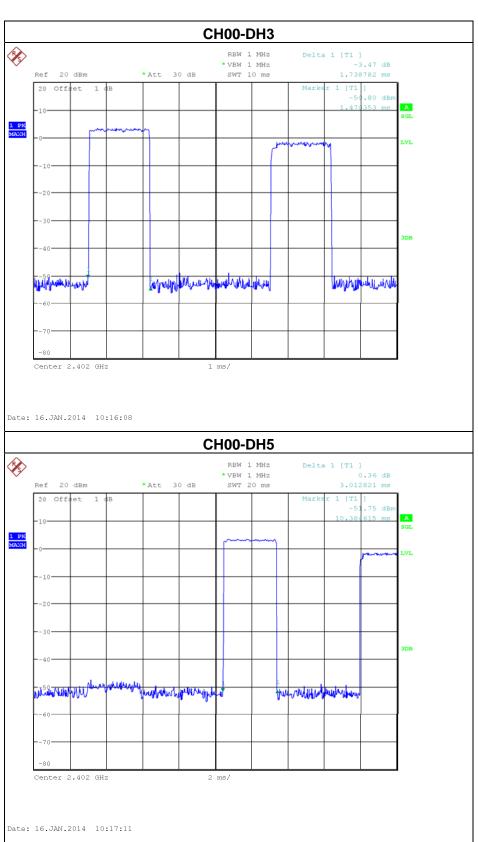


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00-DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2402 MHz	3.0128	0.3214	0.4000
DH3	2402 MHz	1.7387	0.2782	0.4000
DH1	2402 MHz	0.4567	0.1462	0.4000

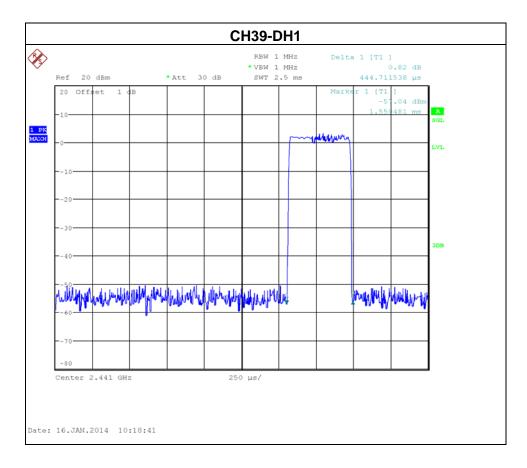


Report No.: NEI-FICP-1-1401C054 Page 73 of 110

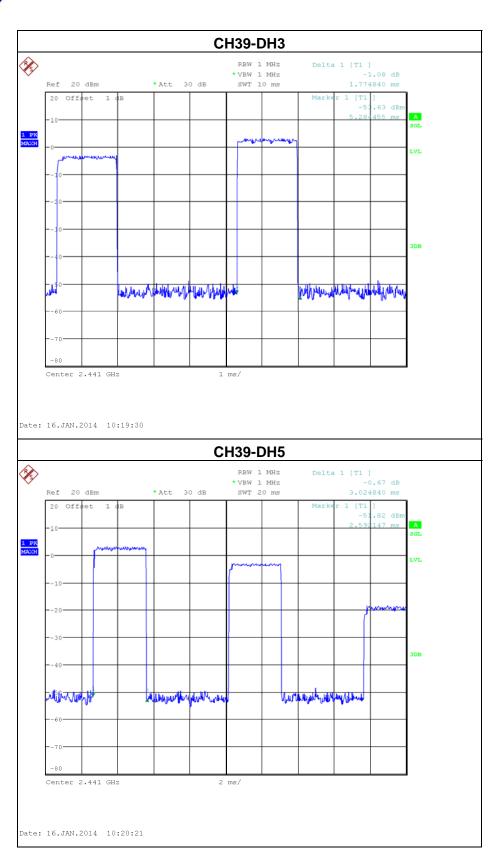


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH39 -DH1/DH3/DH5 -3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2441 MHz	3.0248	0.3226	0.4000
DH3	2441 MHz	1.7748	0.2840	0.4000
DH1	2441 MHz	0.4447	0.1423	0.4000



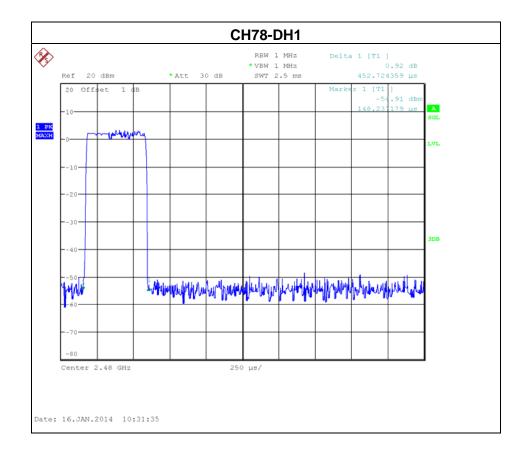
Report No.: NEI-FICP-1-1401C054 Page 75 of 110



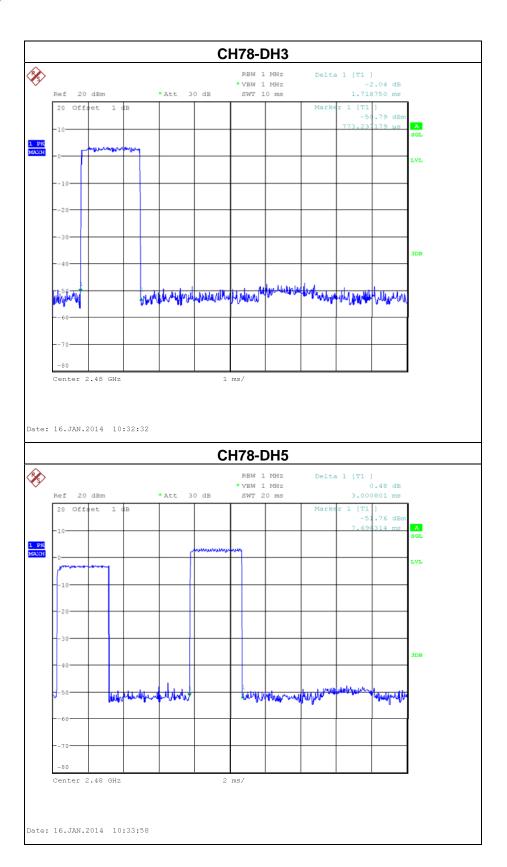
Report No.: NEI-FICP-1-1401C054 Page 76 of 110

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH78 -DH1/DH3/DH5-3Mbps		

Data Packet	Frequency	Pulse Duration (ms)	Dwell Time (s)	Limits (s)
DH5	2480 MHz	3.0000	0.3200	0.4000
DH3	2480 MHz	1.7187	0.2750	0.4000
DH1	2480 MHz	0.4527	0.1449	0.4000



Report No.: NEI-FICP-1-1401C054 Page 77 of 110



7. HOPPING CHANNEL SEPARATION MEASUREMENT

7.1 APPLIED PROCEDURES / LIMIT

Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater.

7.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2014

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

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz
VB	100 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

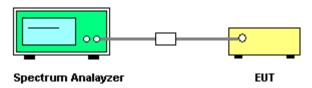
7.1.2 TEST PROCEDURE

- a. The EUT must have its hopping function enabled
- b. Span = wide enough to capture the peaks of two adjacent channels Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span Video (or Average) Bandwidth (VBW) ≥ RBW Sweep = auto Detector function = peak Trace = max hold

7.1.3 DEVIATION FROM STANDARD

No deviation.

7.1.4 TEST SETUP



7.1.5 EUT OPERATION CONDITIONS

The EUT was programmed to be in hopping mode.

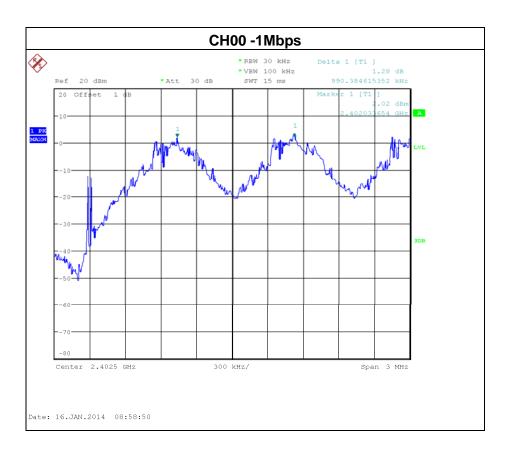
Report No.: NEI-FICP-1-1401C054 Page 79 of 110

7.1.6 TEST RESULTS

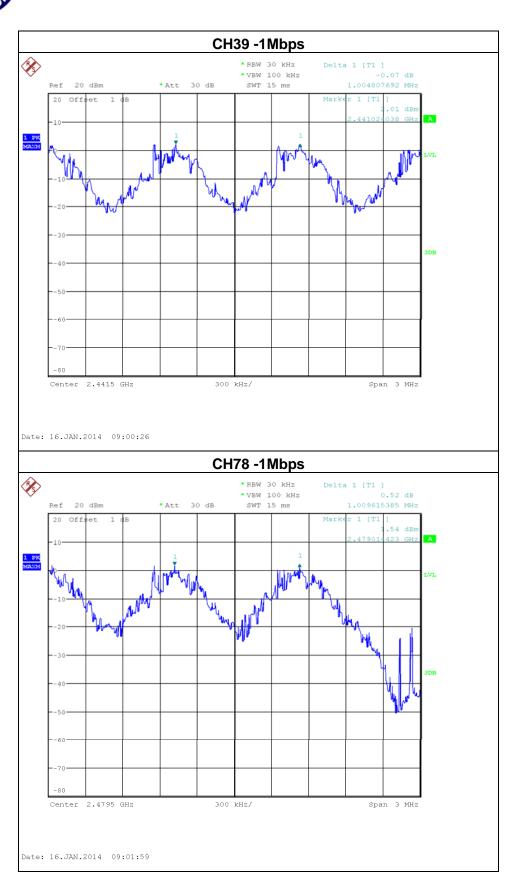
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	Ch. Separation (MHz)	2/3 of 20dB Bandwidth (MHz)	Result
2402 MHz	0.990	0.625	Complies
2441 MHz	1.005	0.603	Complies
2480 MHz	1.010	0.592	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth



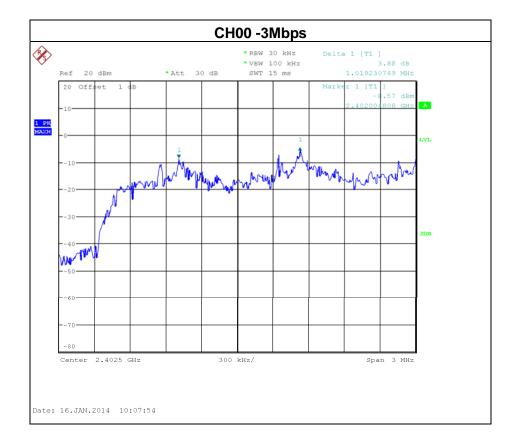
Report No.: NEI-FICP-1-1401C054 Page 80 of 110



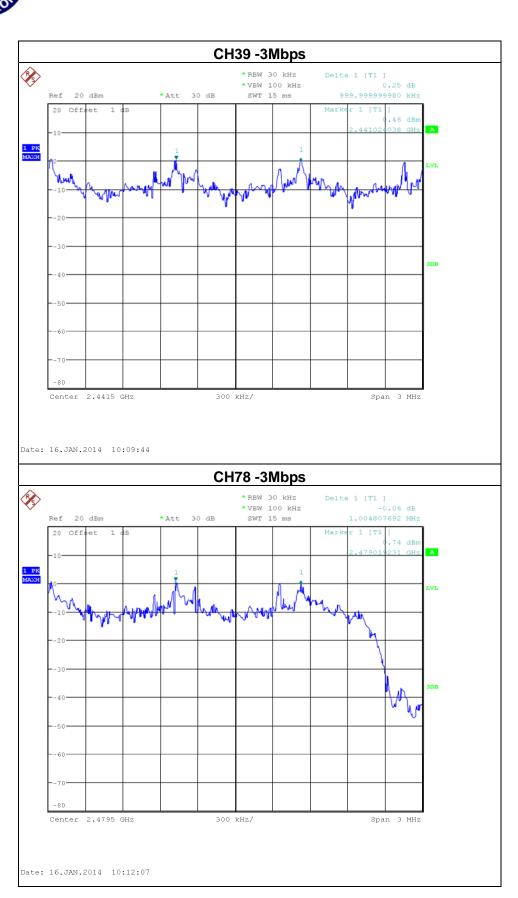
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	Ch. Separation (MHz)	20dB Bandwidth (MHz)	Result
2402 MHz	1.019	0.806	Complies
2441 MHz	1.000	0.817	Complies
2480 MHz	1.005	0.817	Complies

Ch. Separation Limits: >20dB bandwidth or >2/3 of 20dB bandwidth



Report No.: NEI-FICP-1-1401C054 Page 82 of 110



8. BANDWIDTH TEST

8.1 APPLIED PROCEDURES / LIMIT

T				
FCC Part15 (15.247) , Subpart C				
Section	Test Item	Frequency Range (MHz)		
15.247 (a)(2)	Bandwidth	2400-2483.5		

8.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2014

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

All calibration period of Equipment List is One Year.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> Measurement Bandwidth or Channel Separation
RB	30 kHz (20dB Bandwidth) / 30 kHz (Channel Separation)
VB	100 kHz (20dB Bandwidth) / 100 kHz (Channel Separation)
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

8.1.2 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= 30KHz, VBW=100KHz, Sweep time = Auto.

8.1.3 DEVIATION FROM STANDARD

No deviation.

8.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

8.1.5 EUT OPERATION CONDITIONS

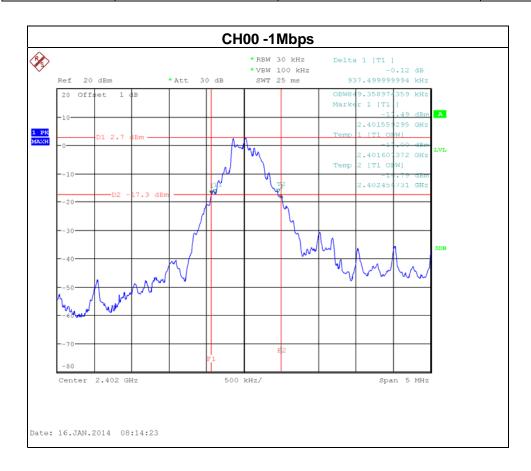
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1401C054 Page 84 of 110

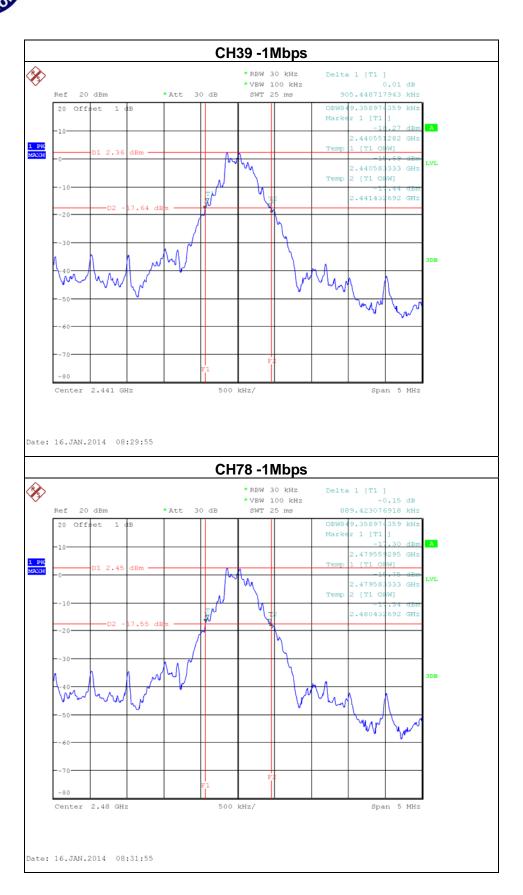
8.1.6 TEST RESULTS

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00 / CH39 /CH78-1Mbps		

Frequency	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Result
2402 MHz	0.937	0.849	PASS
2441 MHz	0.905	0.849	PASS
2480 MHz	0.889	0.849	PASS



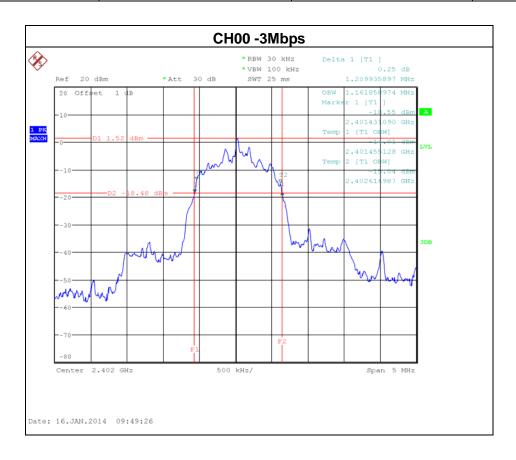
Report No.: NEI-FICP-1-1401C054 Page 85 of 110



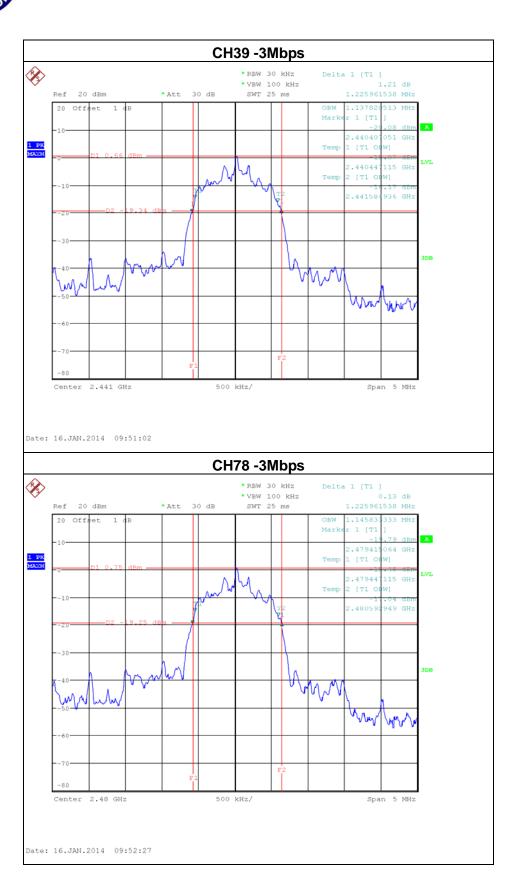
Report No.: NEI-FICP-1-1401C054 Page 86 of 110

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00 / CH39 /CH78-3Mbps		

Frequency	20dB Bandwidth (MHz)	99% Occupied Bandwidth (MHz)	Result
2402 MHz	1.210	1.162	PASS
2441 MHz	1.226	1.138	PASS
2480 MHz	1.226	1.146	PASS



Report No.: NEI-FICP-1-1401C054 Page 87 of 110



Report No.: NEI-FICP-1-1401C054 Page 88 of 110

9. PEAK OUTPUT POWER TEST

9.1 APPLIED PROCEDURES / LIMIT

*** *** * ==== * **** * == * ****					
	FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result	
15.247 (b)(1)	Peak Output Power	0.125 watt or 21dBm	2400-2483.5	PASS	

9.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2014

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

All calibration period of Equipment List is One Year.

9.1.2 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= 3MHz, VBW= 3MHz, Sweep time = Auto.

9.1.3 DEVIATION FROM STANDARD

No deviation.

9.1.4 TEST SETUP

EUT	SPECTRUM
	ANALYZER

9.1.5 EUT OPERATION CONDITIONS

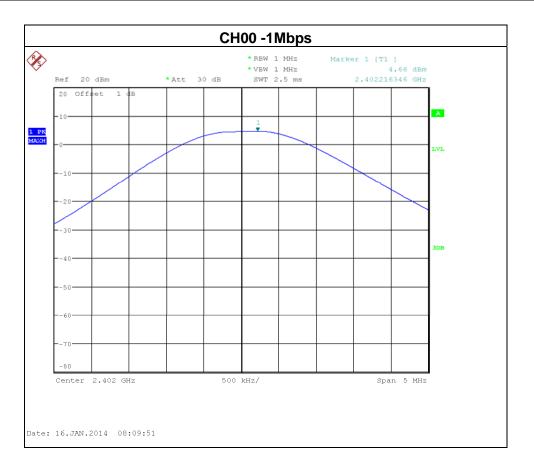
The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1401C054 Page 89 of 110

9.1.6 TEST RESULTS

EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 ℃	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -1Mbps		

	Test Channel	Frequency	Peak Output Power	LIMIT	LIMIT
		(MHz)	(dBm)	(dBm)	(W)
	CH00	2402	4.66	21	0.125
	CH39	2441	4.39	21	0.125
	CH78	2480	4.50	21	0.125

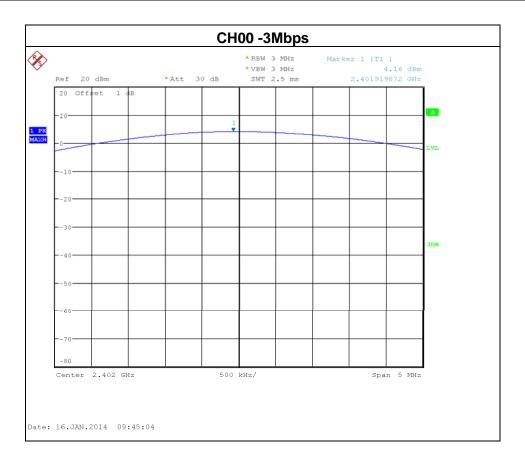


Report No.: NEI-FICP-1-1401C054 Page 90 of 110

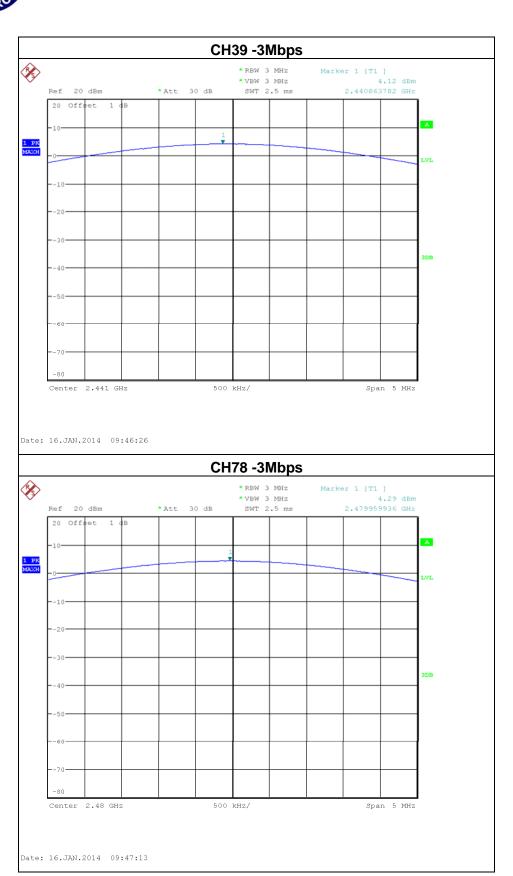


EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00/ CH39 /CH78 -3Mbps		

Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)	LIMIT (W)
CH00	2402	4.16	21	0.125
CH39	2441	4.12	21	0.125
CH78	2480	4.29	21	0.125



Report No.: NEI-FICP-1-1401C054 Page 92 of 110



10. ANTENNA CONDUCTED SPURIOUS EMISSION

10.1 APPLIED PROCEDURES / LIMIT

20dBc in any 100 kHz bandwidth outside the operating frequency band. 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.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

10.1.1 MEASUREMENT INSTRUMENTS LIST AND SETTING

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Spectrum Analyzer	R&S	FSP 40	100185	Nov. 16.2014

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

All calibration period of Equipment List is One Year.

10.1.2 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= 100KHz, VBW=100KHz, Sweep time = Auto.

10.1.3 DEVIATION FROM STANDARD

No deviation.

10.1.4 TEST SETUP



10.1.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 4.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

Report No.: NEI-FICP-1-1401C054 Page 94 of 110

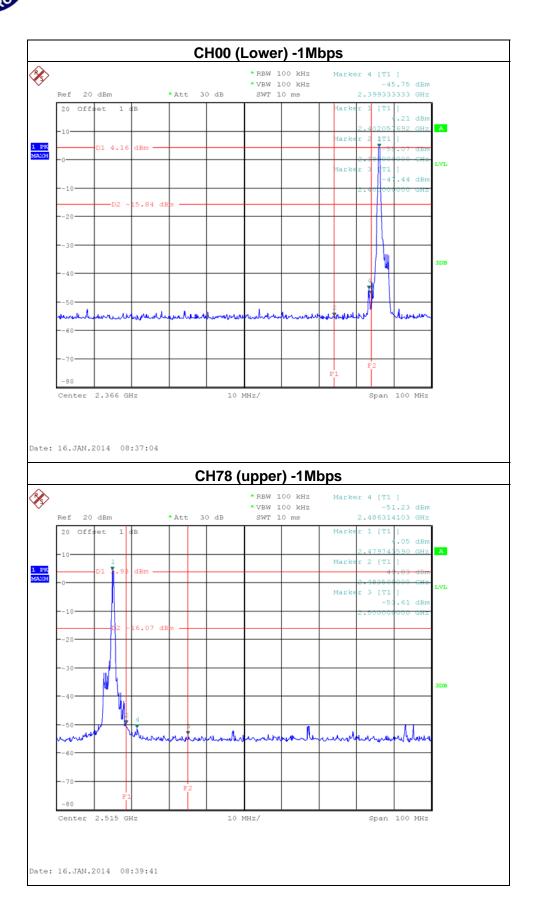
10.1.6 TEST RESULTS

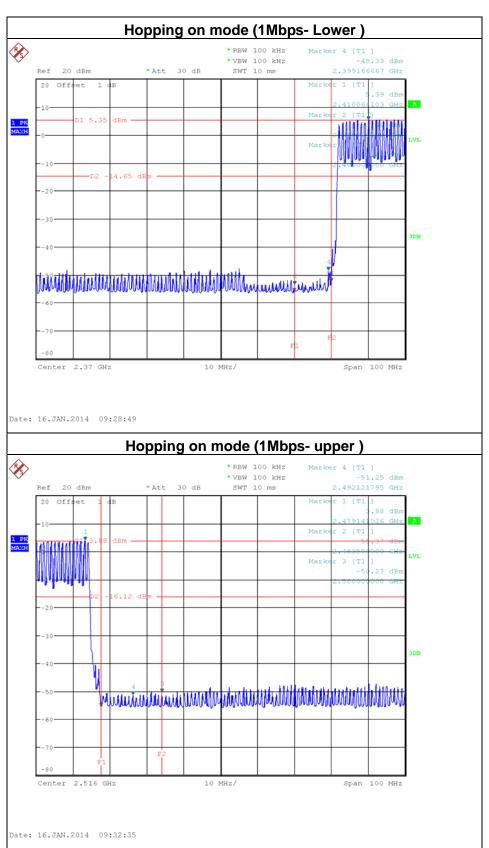
EUT:	Double Spot	Model Name :	SFQ-09
Temperature:	24 °C	Relative Humidity:	58 %
Pressure:	1009 hPa	Test Voltage :	AC120V/60Hz
Test Mode :	CH00 / CH39/ CH78-1Mbps & Hopping on mode (1Mbps)		

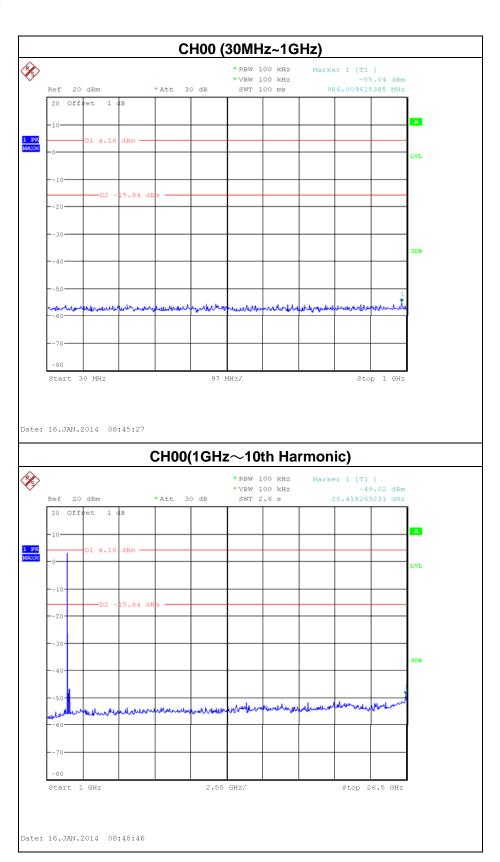
	The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
	FREQUENCY(MHz)	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2399.33 -45.75		2483.50	-49.83	
		Per	eult	

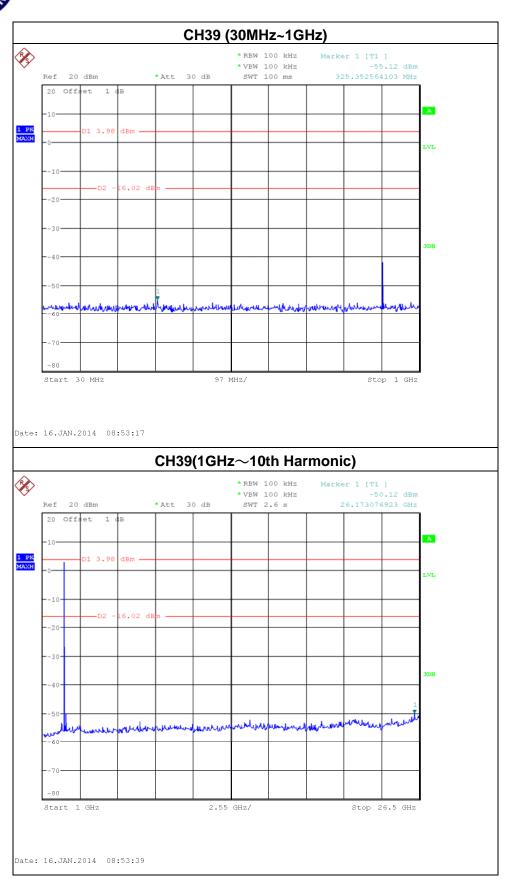
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

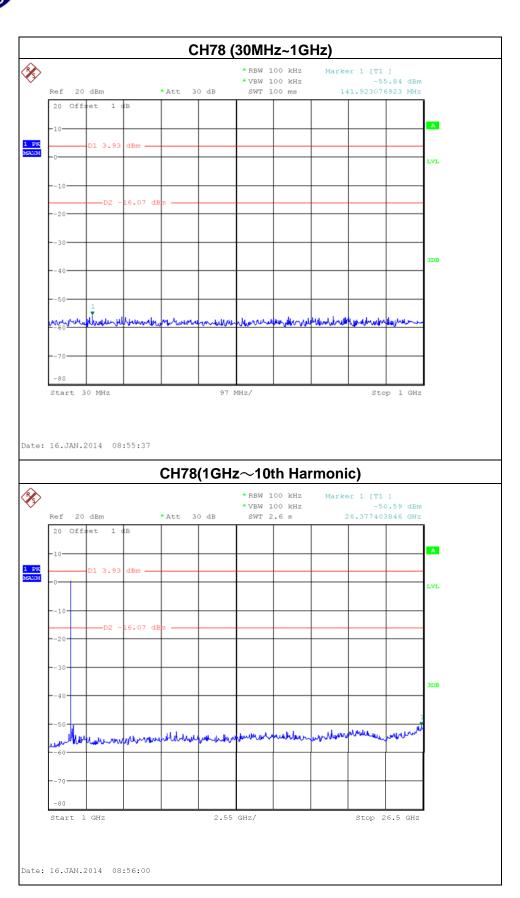
Report No.: NEI-FICP-1-1401C054 Page 95 of 110











Report No.: NEI-FICP-1-1401C054 Page 100 of 110

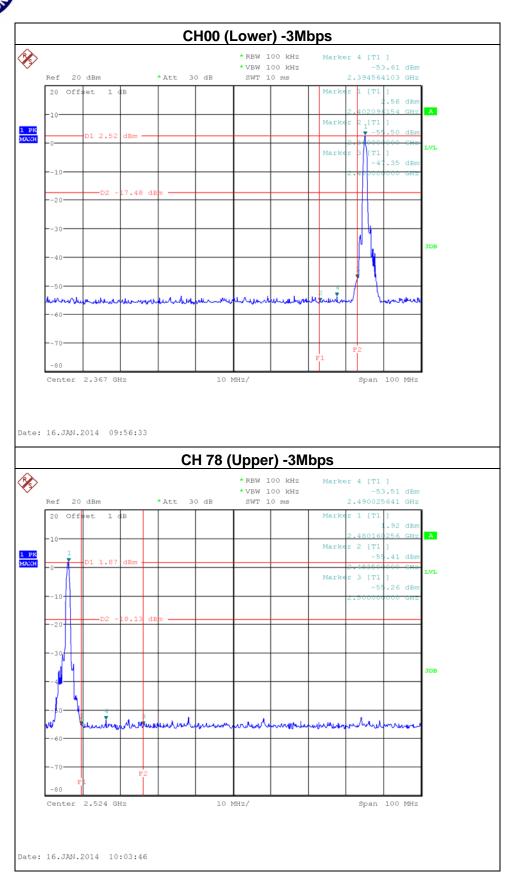


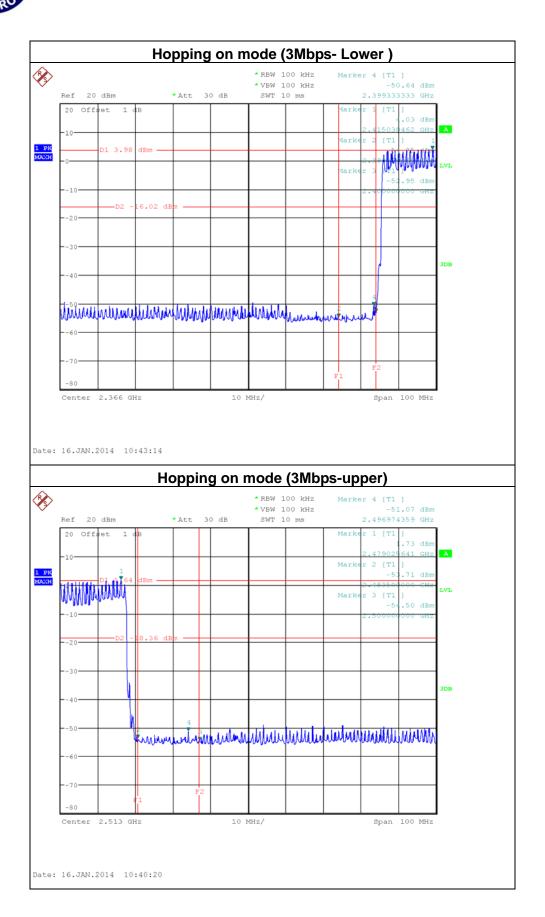
EUT:	Double Spot	Model Name :	SFQ-09	
Temperature:	24 ℃	Relative Humidity:	58 %	
Pressure:	1009 hPa	Test Voltage : AC120V/60Hz		
Test Mode :	CH00 / CH39/ CH78 -3Mbps & Hopping on mode (3Mbps)			

The max. radio frequency power in any 100kHz bandwidth outside the frequency band		The max. radio frequency power in any 100 kHz bandwidth within the frequency band.	
FREQUENCY(MHz	POWER(dBm)	FREQUENCY(MHz)	POWER(dBm)
2400.00 -47.35		2490.025	-53.51
	Re	sult	

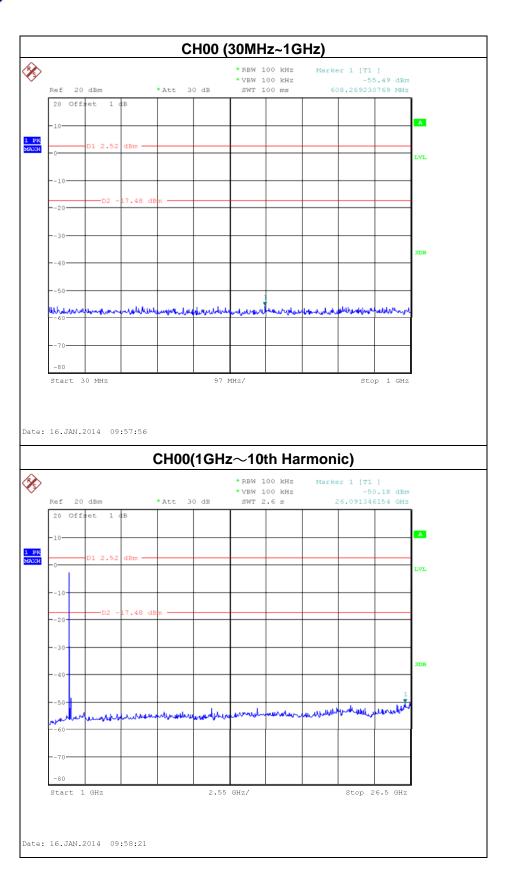
In any 100kHz bandwidth outside the frequency band, the radio frequency power is at least 20dB below that in the 100kHz bandwidth within the band that contains the highest lever of the desired power.

Report No.: NEI-FICP-1-1401C054 Page 101 of 110

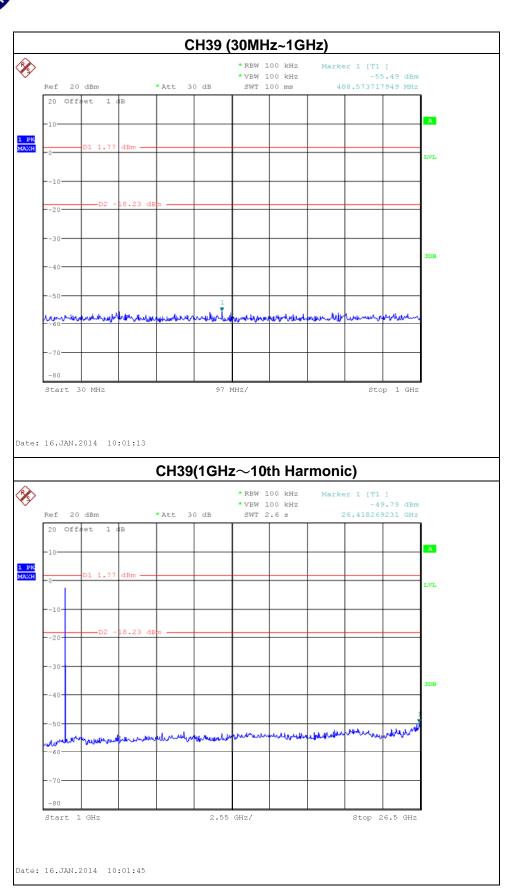


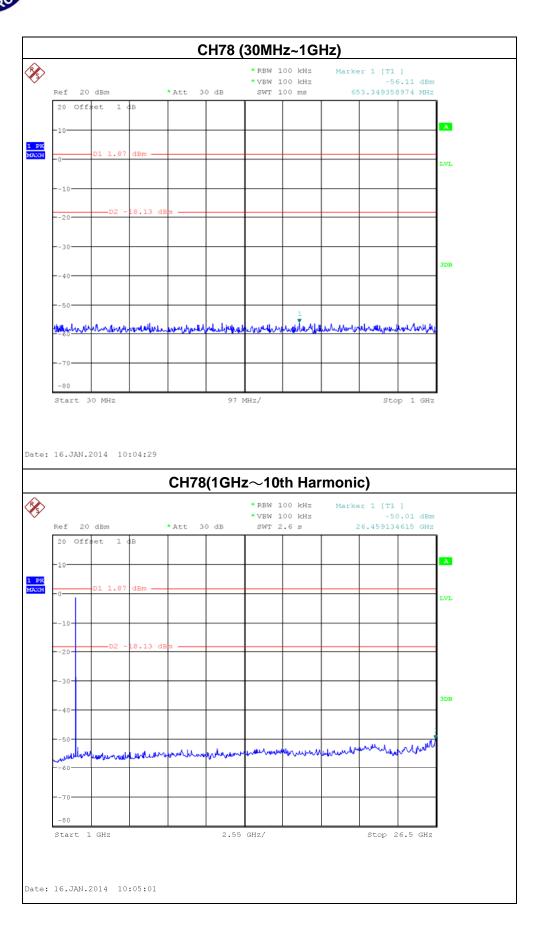


Report No.: NEI-FICP-1-1401C054 Page 103 of 110



Report No.: NEI-FICP-1-1401C054 Page 104 of 110





Report No.: NEI-FICP-1-1401C054 Page 106 of 110

11. EUT TEST PHOTO

Conducted Measurement Photos





Report No.: NEI-FICP-1-1401C054 Page 107 of 110



Radiated Measurement Photos 9K~30MHz





Report No.: NEI-FICP-1-1401C054 Page 108 of 110



Radiated Measurement Photos 30M~1000MHz





Report No.: NEI-FICP-1-1401C054 Page 109 of 110



Radiated Measurement Photos Above 1000MHz





Report No.: NEI-FICP-1-1401C054 Page 110 of 110