

# FCC RF Test Report

Product Type : WCDMA Mobile Phone  
Applicant : Sky Phone LLC  
Address : 1348 Washington Av., Miami Beach  
Trade Name : SKY DEVICE  
Model Number : SKY 4.5D  
Test Specification : FCC 47 CFR PART 15 SUBPART C: Oct., 2013  
RSS-210 Issue 8 December 2010  
ANSI C63.4:2009  
Receive Date : 20 June, 2014  
Test Period : 23 June, 2014 to 23 July, 2014  
Issue Date : 31, July 2014

## Issue by

A Test Lab Techno Corp.  
No. 140-1, Changan Street, Bade City,  
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Tel : +886-3-2710188 / Fax : +886-3-2710190



Taiwan Accreditation Foundation accreditation number: 1330

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## Revision History

Rev.	Issue Date	Revisions	Revised By
00	31 July, 2014	Initial Issue	



## Verification of Compliance

Issued Date: 07/31/2014



Product Type : WCDMA Mobile Phone  
 Applicant : Sky Phone LLC  
 Address : 1348 Washington Av., Miami Beach  
 Trade Name : SKY DEVICE  
 Model Number : SKY 4.5D  
 FCC ID : 2ABOSGC140601  
 EUT Rated Voltage : AC 120V; DC 3.7V battery, DC 5.0V USB charge;  
 Test Voltage : AC 120V; DC 3.7V;  
 Applicable Standard : FCC 47 CFR PART 15 SUBPART C: Oct., 2013  
 RSS-210 Issue 8 December 2010  
 ANSI C63.4:2009  
 Test Result : Complied

Performing Lab. : A Test Lab Techno Corp.  
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 Taiwan Accreditation Foundation accreditation number: 1330  
<http://www.atl-lab.com.tw/e-index.htm>



The above equipment was tested by A Test Lab Techno Corp. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2009 and the energy emitted by the sample tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247 .

The test results of this report relate only to the tested sample identified in this report.

Approved By :  Reviewed By :   
 (Manager) \_\_\_\_\_ (Murphy Wang) (Testing Engineer) \_\_\_\_\_ (Fly Lu)



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## 1 General Information

### 1.1 Applied Standard

Applied Rules: FCC 47 CFR PART 15 SUBPART C: Oct., 2013

Test Method: FCC 558074 D01 DTS Meas Guidance  
FCC KDB 662911 D01 Multiple Transmitter Output

### 1.2 Test Location

Test Location 1: A Test Lab Techno Corp.  
Address: No. 140-1, Changan Street, Bade City, Taoyuan County 334, Taiwan  
R.O.C.

### 1.3 Test Environment Condition

Ambient Temperature: 19.5 to 25°C  
Ambient Relative Humidity: 40 to 55 %  
Atmospheric Pressure: Not applicable



## 2 Test Summary

Test Item	FCC Part No.	Requirements	Test Result	Verdict (NOTE2)
DTS (6 dB) Bandwidth	15.247(a)(2)	≥ 500 kHz.	Appendix A	Pass
Conducted Output Power	15.247(b)(3)	For directional gain:< 30dBm – (G[dBi] – 6 [dB]), peak; Otherwise:< 30dBm,	Appendix B	Pass
Maximum Power Spectral Density Level	15.247(e)	For directional gain:< 8dBm/3 kHz – (G[dBi] – 6[dB]), peak. Otherwise:< 8	Appendix C	Pass
Band Edges Compliance	15.247(d)	< -20dB/100 kHz if total Peak power ≤ power limit.	Appendix D	Pass
Unwanted Emissions into Non-Restricted Frequency Bands	15.247(d)	< -20dB/100 kHz if total peak power ≤ power limit.	Appendix E	Pass
Unwanted Emissions into Restricted Frequency Bands (Conducted)	15.247(d) 15.209 (NOTE1)	FCC Part 15.209 field strength limit;	Appendix F	Pass
Unwanted Emissions into Restricted Frequency Bands (Radiated)				
AC Power Line Conducted Emissions	15.207	FCC Part 15.207 conducted limit;	Appendix G	Pass



### 3 Description of the Equipment underTest (EUT)

#### 3.1 General Description

Product	WCDMA Mobile Phone	
Trade Name	SKY DEVICE	
Model Number	SKY 4.5D	
Applicant	Sky Phone LLC 1348 Washington Av., Miami Beach	
Manufacturer	Shenzhen Malata Mobile Communication CO.,LTD 25/F,Malata Technology Building,NO9998 ShennanRd,Hi-techPark,Nanshan,Shenzhen,P.R. China 518057.	
FCC ID	2ABOSGC140601	
Mode	Frequency (MHz)	Modulation
IEEE 802.11b	2412 ~ 2462	CCK(DSSS)
IEEE 802.11g	2412 ~ 2462	OFDM
IEEE 802.11n-HT20	2412 ~ 2462	16-QAM, 64-QAM
IEEE 802.11n-HT40	2422 ~ 2452	16-QAM, 64-QAM
Antenna Delivery	1*Tx + 1*Rx	
Type of Antenna	Internal	
Antenna Gain (dBi)	0 dBi	
Maximum Transmit Power (EIRP)	IEEE 802.11b:20.15dBm IEEE 802.11g: 17.28 dBm IEEE 802.11n-HT20: 17.76 dBm IEEE 802.11n-HT40: 17.82 dBm	

**NOTE: OnlyWLANtest data includedinthis report.**

#### 3.2 EUT Identity

IMEI No.	
SIM 1	868817019960135
SIM 2	868817019960093



### 3.3 Test Modes

NOTE: Typical working modes for each IEEE 802.11 mode are selected to perform tests.

Test Mode	Test Modes Description
11B	IEEE 802.11b with data rate of 11 Mbps using SISO mode.
11G	IEEE 802.11g with data rate of 54 Mbps using SISO mode.
11N20	IEEE 802.11n with data rate of MCS7 and bandwidth of 20MHz using SISO mode.
11N40	IEEE 802.11n with data rate of MCS7 and bandwidth of 40MHz using SISO mode.



### 3.4 EUT Configurations

#### 3.4.1 General Configurations

Configuration	Description
Test Antenna Ports	Until otherwise specified, <ul style="list-style-type: none"> <li>- All TX tests are performed at all TX antenna ports of the EUT, and</li> <li>- All RX tests are performed at all RX antenna ports of the EUT.</li> </ul>
Multiple RF Sources	Other than the tested RF source of the EUT, other RF source(s) are disabled or shutdown during measurements.

Note: The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

#### 3.4.2 Customized Configurations

Test Mode	RF Ch.	BG Port	TX Freq. [MHz]	RX Freq. [MHz]	Ch. BW [MHz]
11B	L	BG 1	Ch No. 1 / 2412MHz	---	20
		BG2		---	20
	M	BG 1	Ch No. 6 / 2437 MHz	---	20
		BG2		---	20
	H	BG 1	Ch No. 11/ 2462MHz	---	20
		BG2		---	20
11G	L	BG 1	Ch No. 1 / 2412MHz	---	20
		BG2		---	20
	M	BG 1	Ch No. 6 / 2437 MHz	---	20
		BG2		---	20
	H	BG 1	Ch No. 11/ 2462MHz	---	20
		BG2		---	20
11N20	L	BG 1	Ch No. 1 / 2412MHz	---	20
		BG2		---	20
	M	BG 1	Ch No. 6 / 2437 MHz	---	20
		BG2		---	20
	H	BG 1	Ch No. 11/ 2462MHz	---	20
		BG2		---	20
11N40	L	BG 1	Ch No. 3/ 2422MHz	---	40
		BG2		---	40
	M	BG 1	Ch No. 6 / 2437 MHz	---	40
		BG2		---	40
	H	BG 1	Ch No. 9/ 2452 MHz	---	40
		BG2		---	40

### 3.5 Test Environments

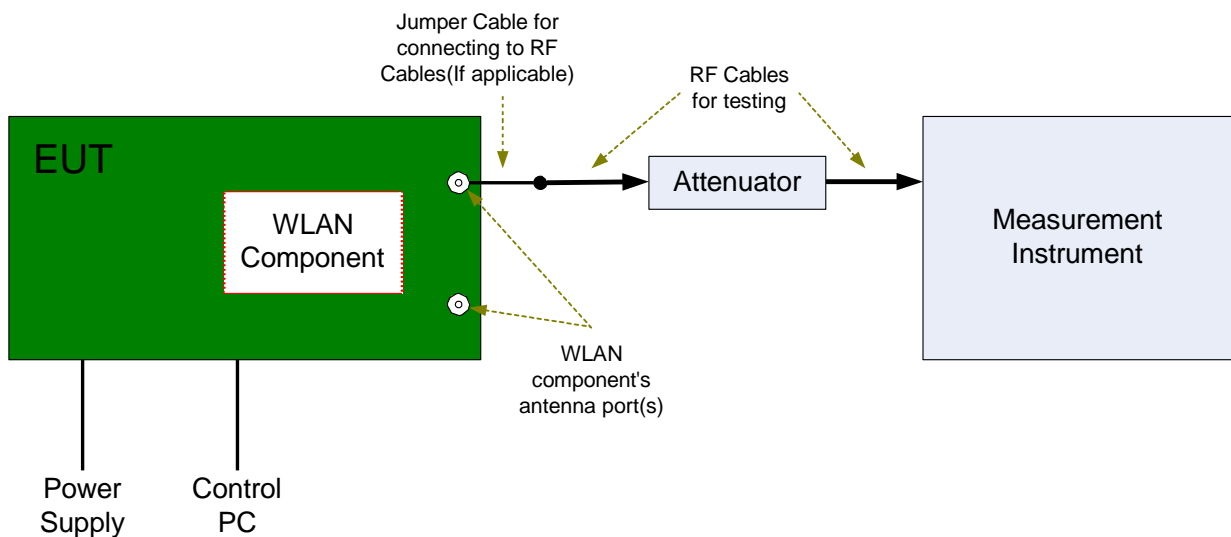
NOTE: The values used in the test report maybe stringent than the declared.

Environment Parameter	Selected Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	Ambient	3.7VDC	Ambient

### 3.6 Test Setups

#### 3.6.1 Test Setup 1

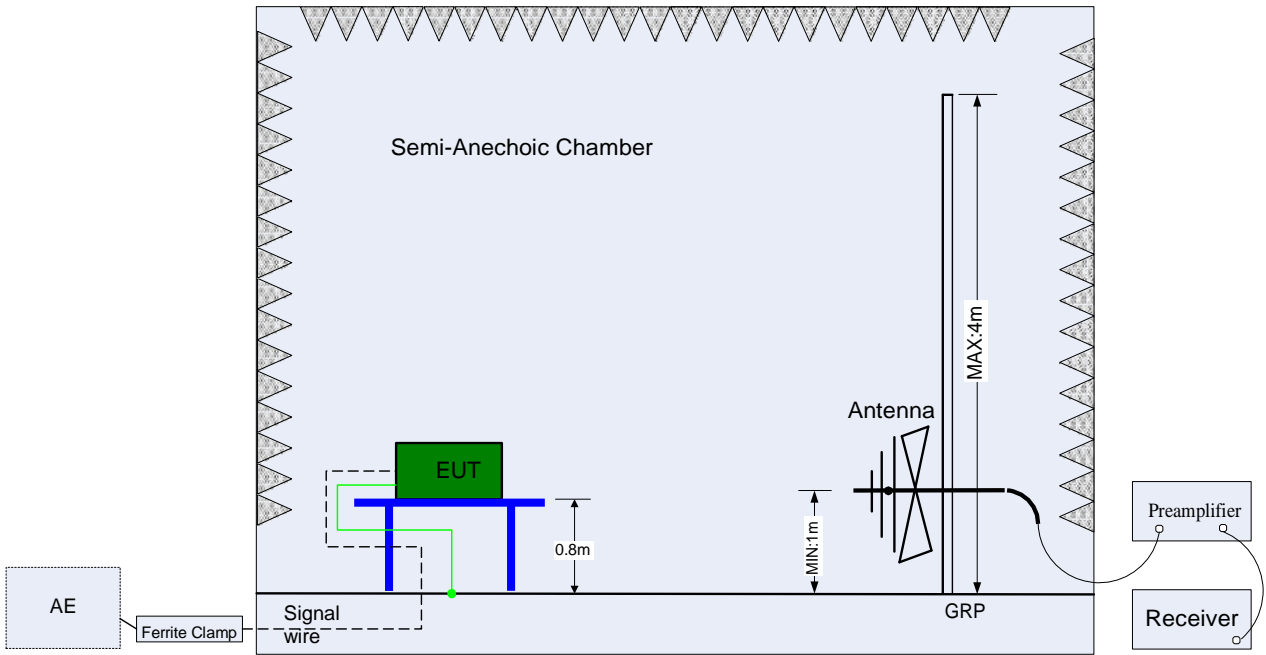
The WLAN component's antenna ports(s) of the EUT are reconnected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



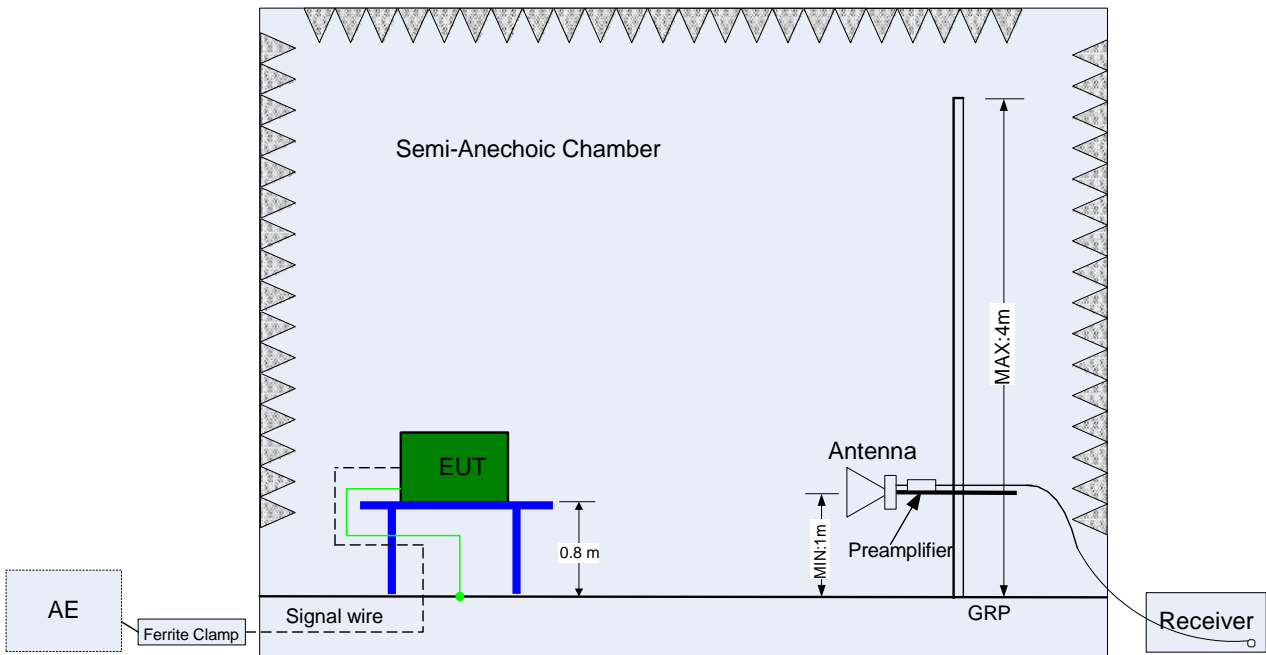
#### 3.6.2 Test Setup 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4dB according to the standards: ANSI C63.4. The test distance is 3m. The setup is according to ANSI C63.4 and CAN/CSA-CEI/IEC CISPR 22.

The maximal emission value is acquired by adjusting the antenna height, polarization and turntable azimuth. Normally, the height range of antenna is 1m to 4m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).



(Below 1 GHz)

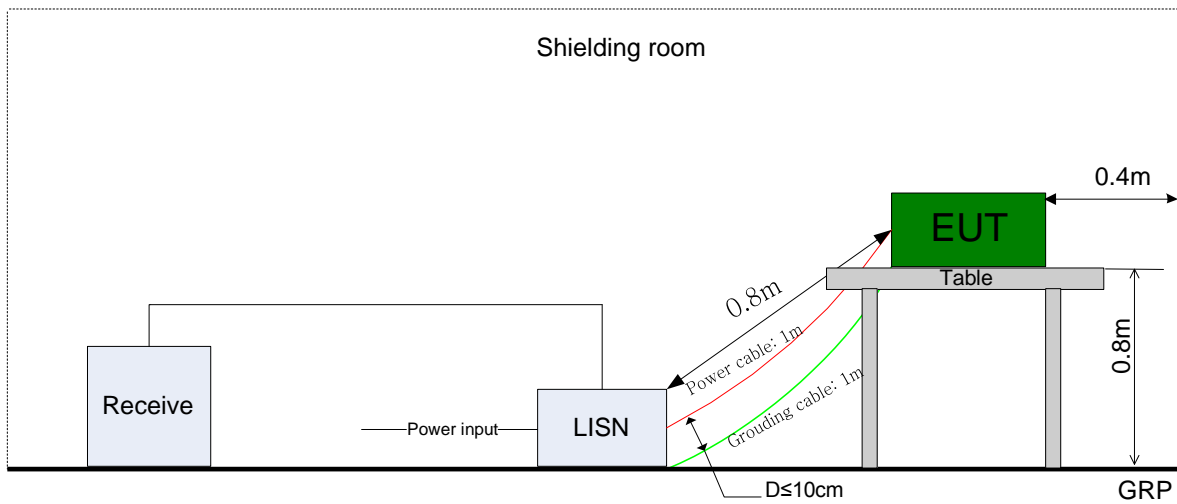


(Above 1GHz)

### 3.6.3 Test Setup 3

The mains cable of the EUT (maybe per AC/DC Adapter) must be connected to LISN. The LISN shall be placed 0.8 m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.1 m.





### 3.7 Test Conditions

Test Case	Test Conditions	
	Configuration	Description
DTS (6 dB) Bandwidth	Measurement Method	FCC KDB 558074 § 8.0
	Test Environment	NTNV
	Test Setup	TestSetup1
	EUT Configuration	11B_L,11B_M,11B_H 11G_L,11G_M,11G_H 11N20_L, 11 N20_M, 11 N20_H 11N40_L, 11 N40_M, 11 N40_H
Maximum Peak Conducted Output Power	Measurement Method	FCC KDB 558074 §9.1.2 (Peak power meter method).
	Test Environment	NTNV
	Test Setup	TestSetup1
	EUT Configuration	11B_L,11B_M,11B_H 11G_L,11G_M,11G_H 11N20_L, 11 N20_M, 11 N20_H 11N40_L, 11 N40_M, 11 N40_H
Maximum Power Spectral Density Level	Measurement Method	FCC KDB 558074 §10.2 (peak PSD).
	Test Environment	NTNV
	Test Setup	TestSetup1
	EUT Configuration	11B_L,11B_M,11B_H 11G_L,11G_M,11G_H 11N20_L, 11 N20_M, 11 N20_H 11N40_L, 11 N40_M, 11 N40_H
Unwanted Emissions into Non-Restricted Frequency Bands	Measurement Method	FCC KDB 558074 §11.0
	Test Environment	NTNV
	Test Setup	TestSetup1
	EUT Configuration	11B_L,11B_M,11B_H 11G_L,11G_M,11G_H 11N20_L, 11 N20_M, 11 N20_H 11N40_L, 11 N40_M, 11 N40_H
Unwanted Emissions into Restricted Frequency Bands(Conducted)	Measurement Method	FCC KDB 558074 §12.2
	Test Environment	NTNV
	Test Setup	TestSetup1
	EUT Configuration	11B_L,11B_M,11B_H 11G_L,11G_M,11G_H 11N20_L, 11 N20_M, 11 N20_H 11N40_L, 11 N40_M,11 N40_H
Unwanted Emissions into Restricted and Spurious Emission (Radiated)	Measurement Method	FCC KDB 558074 §12.1 & §12.2.7
	Test Environment	NTNV



Test Case	Test Conditions	
	Configuration	Description
AC Power Line Conducted Emissions	Measurement Method	AC mains conducted.
	Test Environment	NTNV
	Test Setup	TestSetup3
	EUT Configuration	11B_L (Worst Conf.).

Note: For Radiated Emissions, By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, then the final test was executed the worst condition and test data were recorded in this report.

**4 Main Test Instruments**

Equipment Name	Manufacturer	Model	Serial Number	Cal Date	Cal. Period
MXA Signal Analyzer	Agilent	N9020A	MY53420615	2014.05.12	1 years
Power Sensor	Agilent	U2021XA	MY53180015	2013.09.27	1 years
Power Sensor	Agilent	U2021XA	MY53260040	2013.09.27	1 years
Power Sensor	Agilent	U2021XA	MY53360002	2013.09.27	1 years
Power Sensor	Agilent	U2021XA	MY53360006	2013.09.27	1 years
USB Modular Simultaneous Data Acquisition	Agilent	U2531A	TW53353509	N.C.R	1 years
USB Modular Simultaneous Data Acquisition	Agilent	U2531A	TW53353511	N.C.R	1 years
Test Receiver	R&S	ESCI	100367	2014.06.18	1 year
LISN	R&S	ENV216	101040	2014.03.07	1 year
LISN	R&S	ENV216	101041	2014.03.07	1 year
RF Pre-selector	Agilent	N9039A	MY46520256	2014.01.21	1 years
Spectrum Analyzer	Agilent	E4446A	MY46180578	2014.01.21	1 years
Pre Amplifier	Agilent	8449B	3008A02237	2014.01.21	1 years
Pre Amplifier	Agilent	8447D	2944A10961	2014.01.21	1 years
Broadband Antenna (30MHz~1GHz)	SCHWARZBECK MESS-ELEKTRONIK	VULB9163	9163-270	2014.07.01	1 years
Horn Antenna (1~18GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9120D	9120D-550	2014.06.10	1 years
Horn Antenna (18~40GHz)	SCHWARZBECK MESS-ELEKTRONIK	BBHA9170	9170-320	2014.06.13	1 years
Loop Antenna	COM-POWER CORPORATION	AL-130	121014	2013.08.14	1 years

END

# Appendix for Test Report

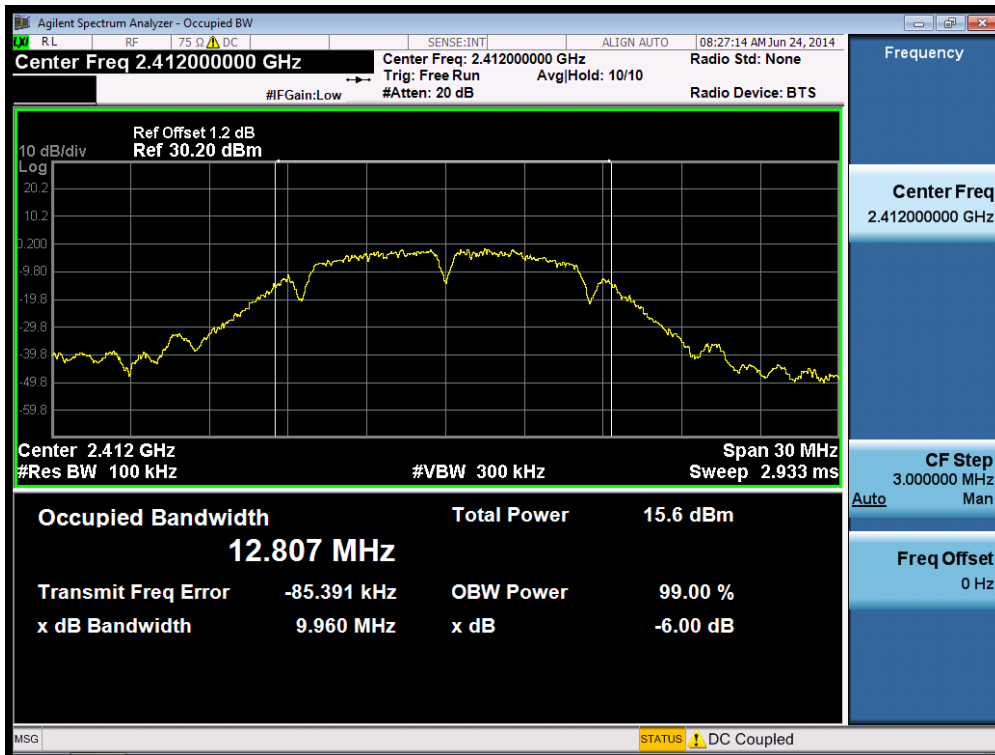
## Appendix A: DTS 6dB Emission Bandwidth

### 1. Result Table

EUT Conf.	Test Channel	6dB Bandwidth [MHz]	Verdict
11B	LCH	9.960	PASS
11B	MCH	9.758	PASS
11B	HCH	9.499	PASS
11G	LCH	16.43	PASS
11G	MCH	16.46	PASS
11G	HCH	16.39	PASS
11N20_SISO	LCH	17.65	PASS
11N20_SISO	MCH	17.69	PASS
11N20_SISO	HCH	17.67	PASS
11N40_SISO	LCH	39.12	PASS
11N40_SISO	MCH	38.64	PASS
11N40_SISO	HCH	38.80	PASS

### 2. Test Plot

#### 2.1. 11B\_LCH







## 2.2. 11B\_MCH

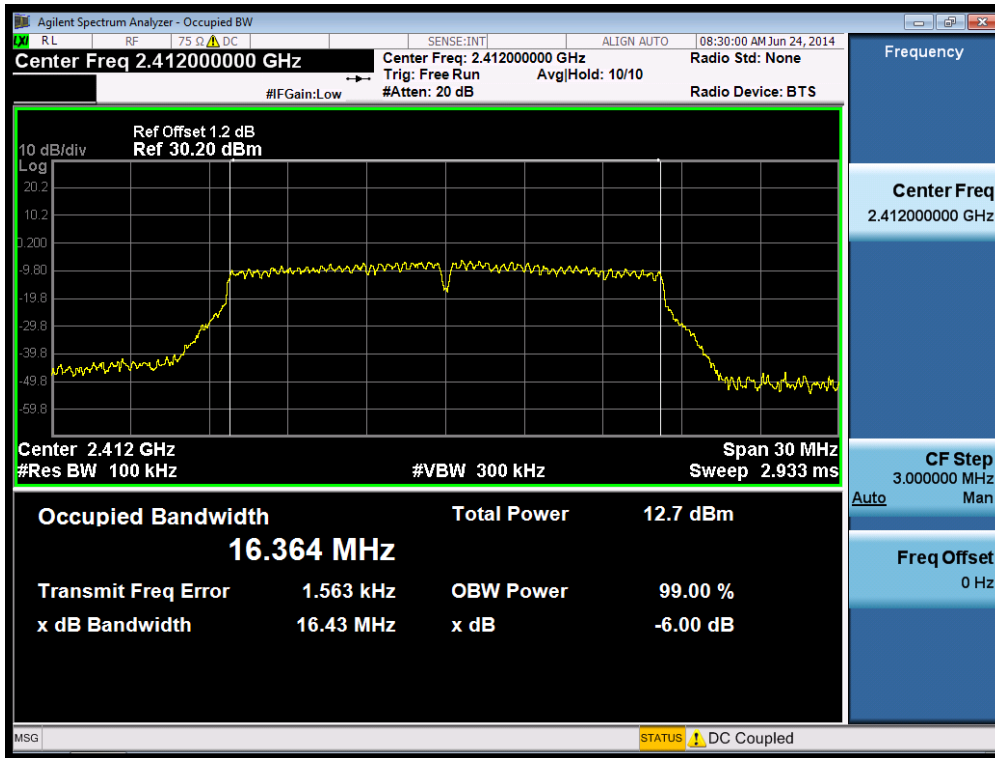


## 2.3. 11B\_HCH

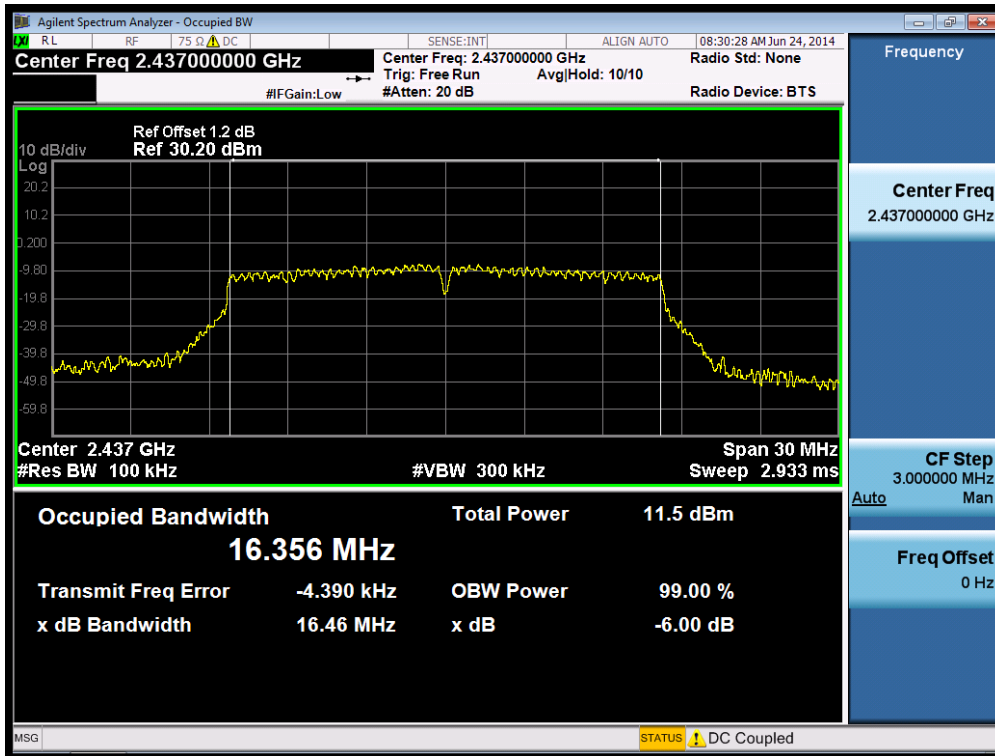




## 2.4. 11G\_LCH

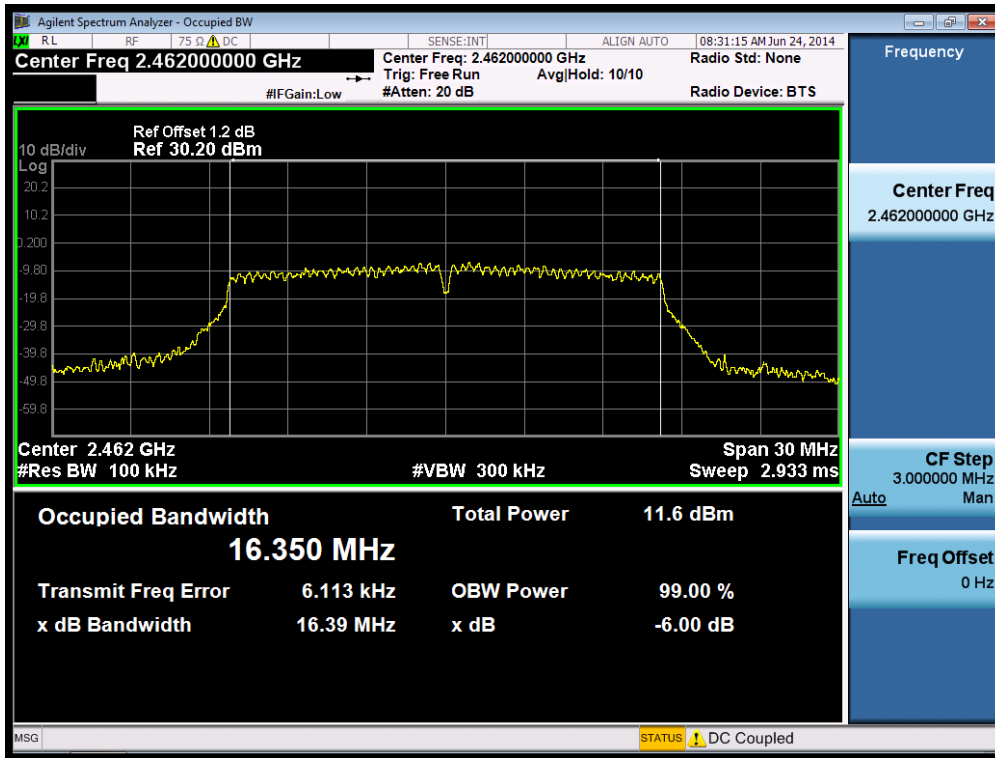


## 2.5. 11G\_MCH

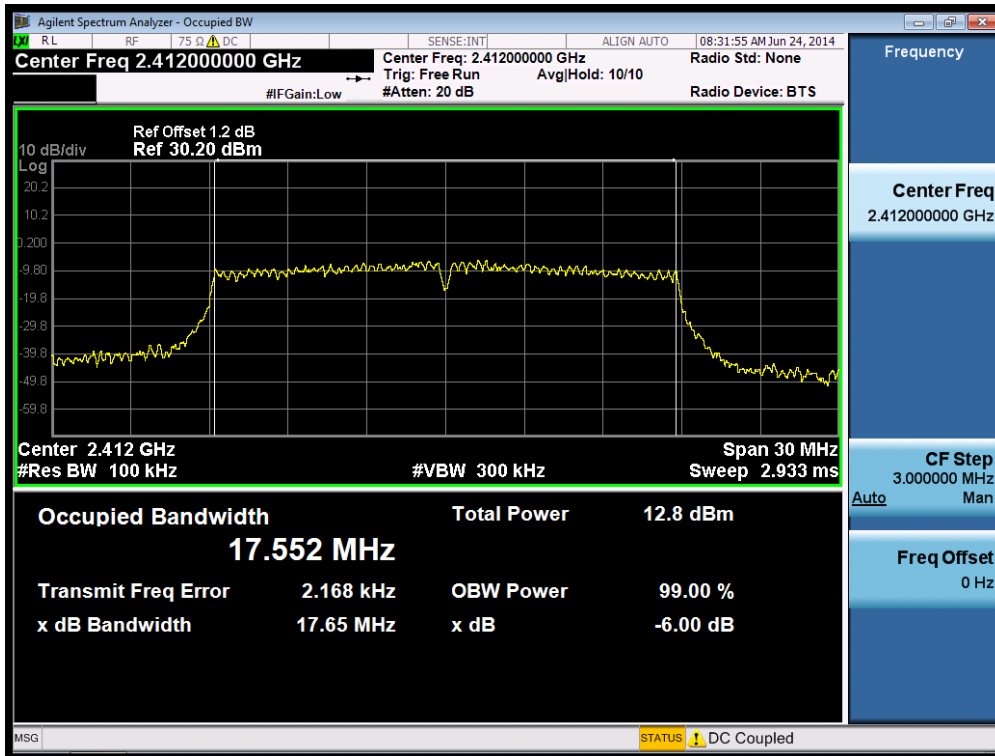




## 2.6. 11G\_HCH

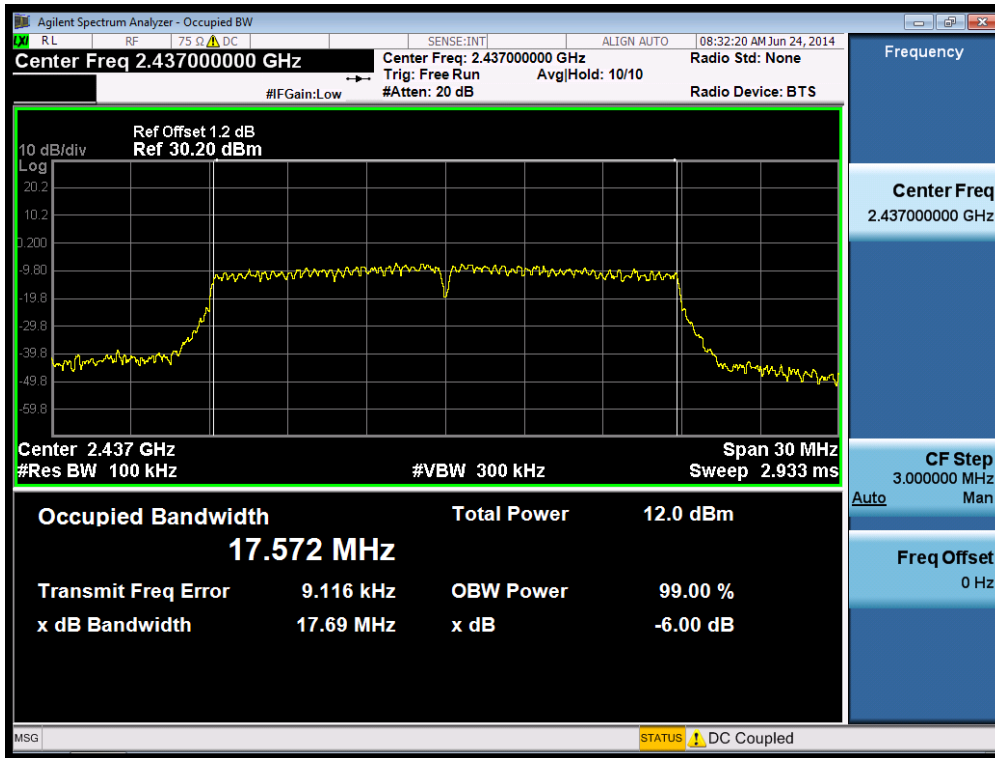


## 2.7. 11N20\_SISO\_LCH

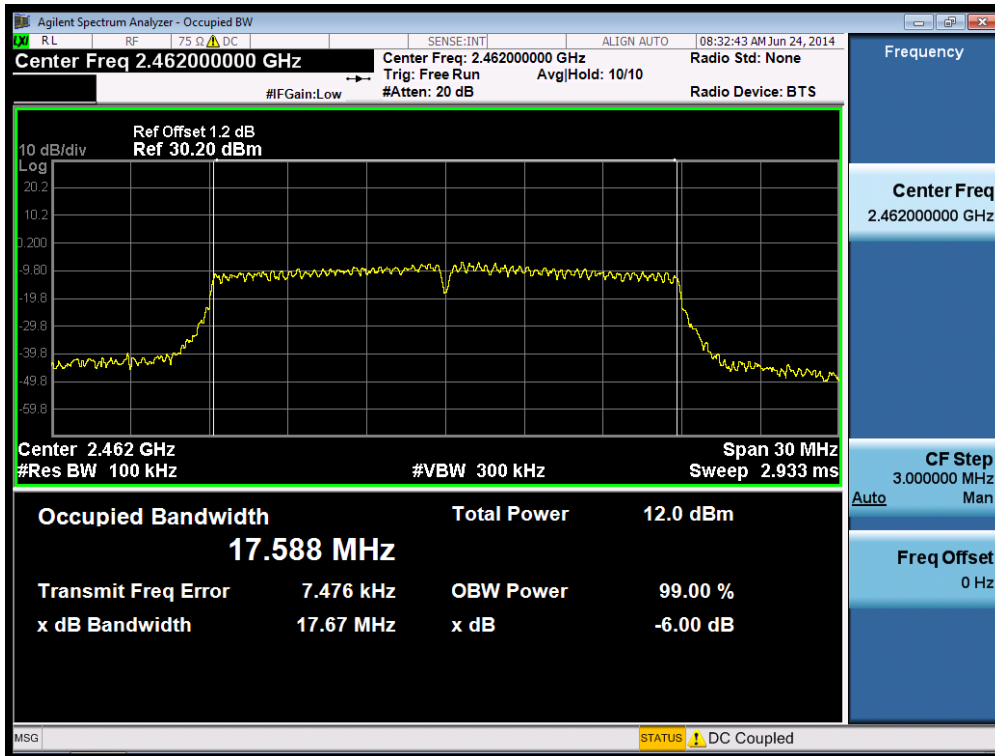




## 2.8. 11N20\_SISO\_MCH

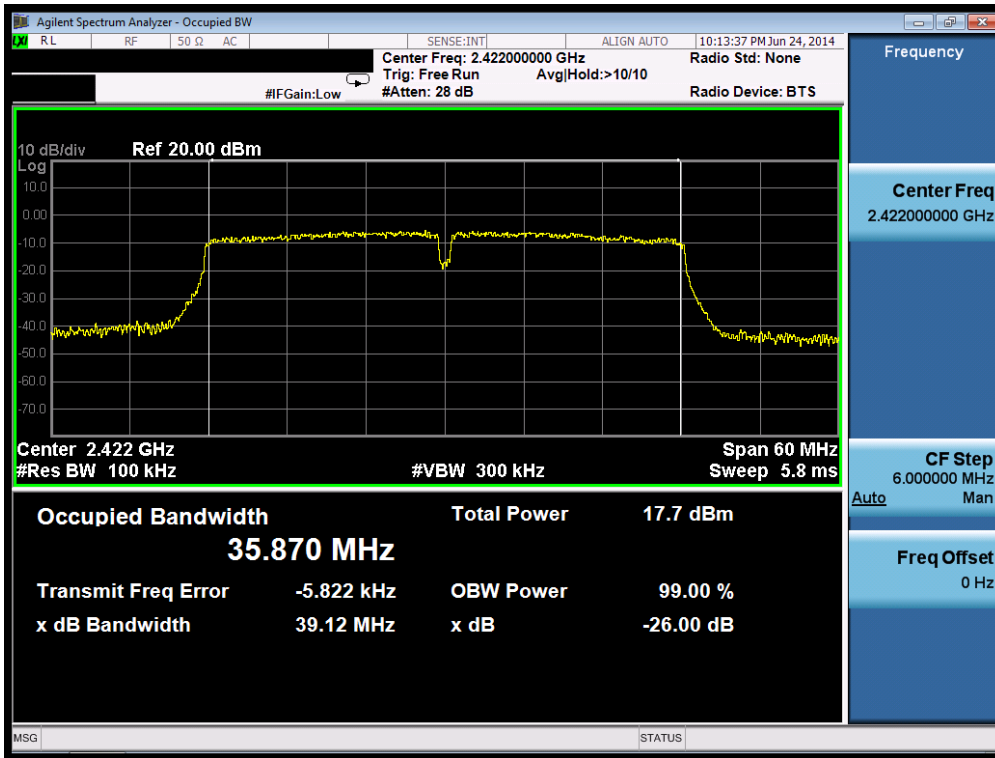


## 2.9. 11N20\_SISO\_HCH

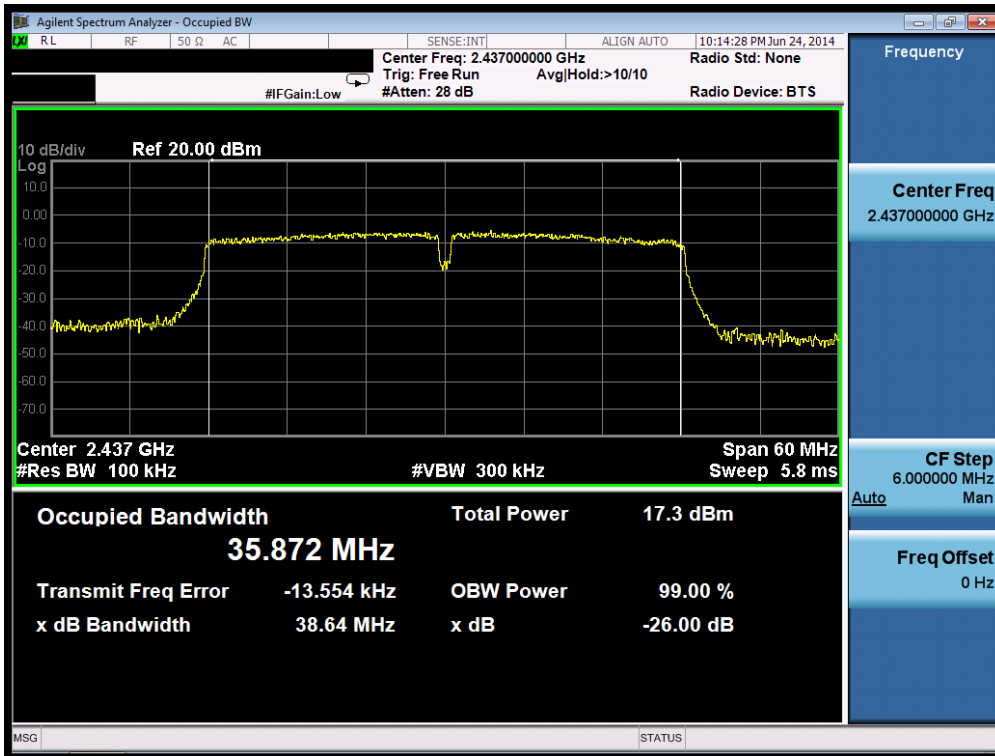




## 2.10. 11N40\_SISO\_LCH

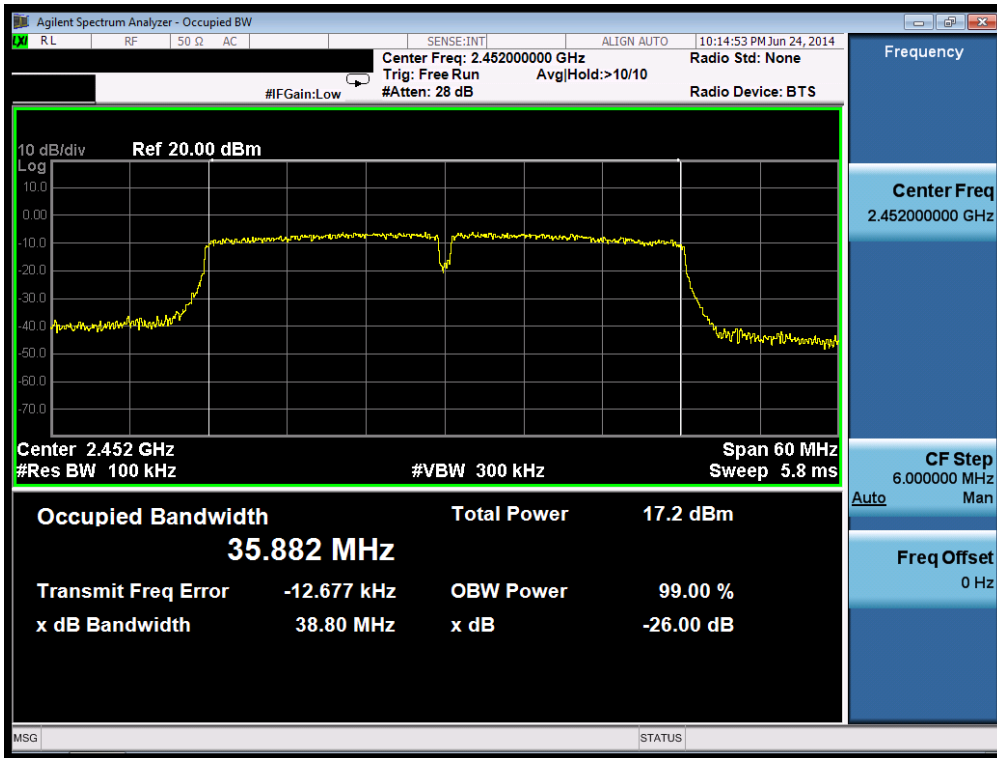


## 2.11. 11N40\_SISO\_MCH





## 2.12. 11N40\_SISO\_HCH



## Appendix B: Peak Output Power

### 1. Result Table

<b>EUT Conf.</b>	<b>Test Channel</b>	<b>Meas.Level [dBm]</b>	<b>Verdict</b>
11B	LCH	20.15	PASS
11B	MCH	18.98	PASS
11B	HCH	18.90	PASS
11G	LCH	17.28	PASS
11G	MCH	16.33	PASS
11G	HCH	16.23	PASS
11N20_SISO	LCH	17.76	PASS
11N20_SISO	MCH	16.88	PASS
11N20_SISO	HCH	16.73	PASS
11N40_SISO	LCH	17.82	PASS
11N40_SISO	MCH	17.50	PASS
11N40_SISO	HCH	17.40	PASS

## Appendix C: Maximum Power Spectral Density Level

### 1. Result Table

EUT Conf.	Test Channel	PSD [dBm]	Verdict
11B	LCH	-1.599	PASS
11B	MCH	-2.742	PASS
11B	HCH	-2.808	PASS
11G	LCH	-5.864	PASS
11G	MCH	-6.467	PASS
11G	HCH	-6.880	PASS
11N20_SISO	LCH	-4.739	PASS
11N20_SISO	MCH	-5.736	PASS
11N20_SISO	HCH	-5.889	PASS
11N40_SISO	LCH	-7.969	PASS
11N40_SISO	MCH	-8.220	PASS
11N40_SISO	HCH	-8.322	PASS

### 2. Test Plot

#### 2.1. 11B\_LCH





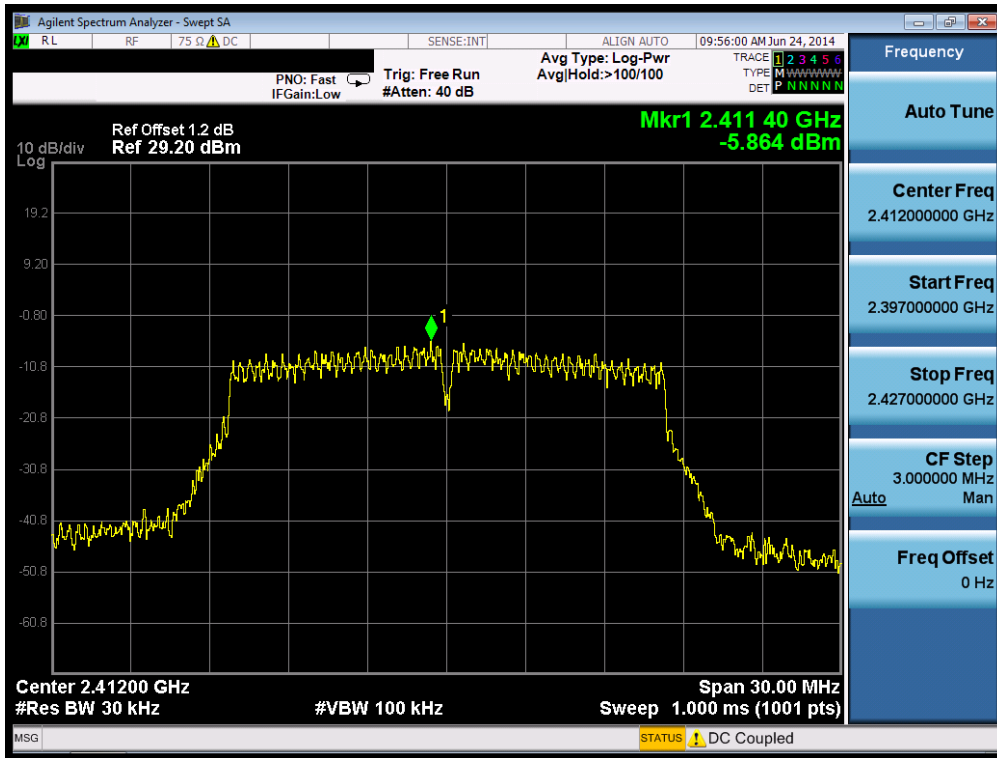
2.2. 11B\_MCH



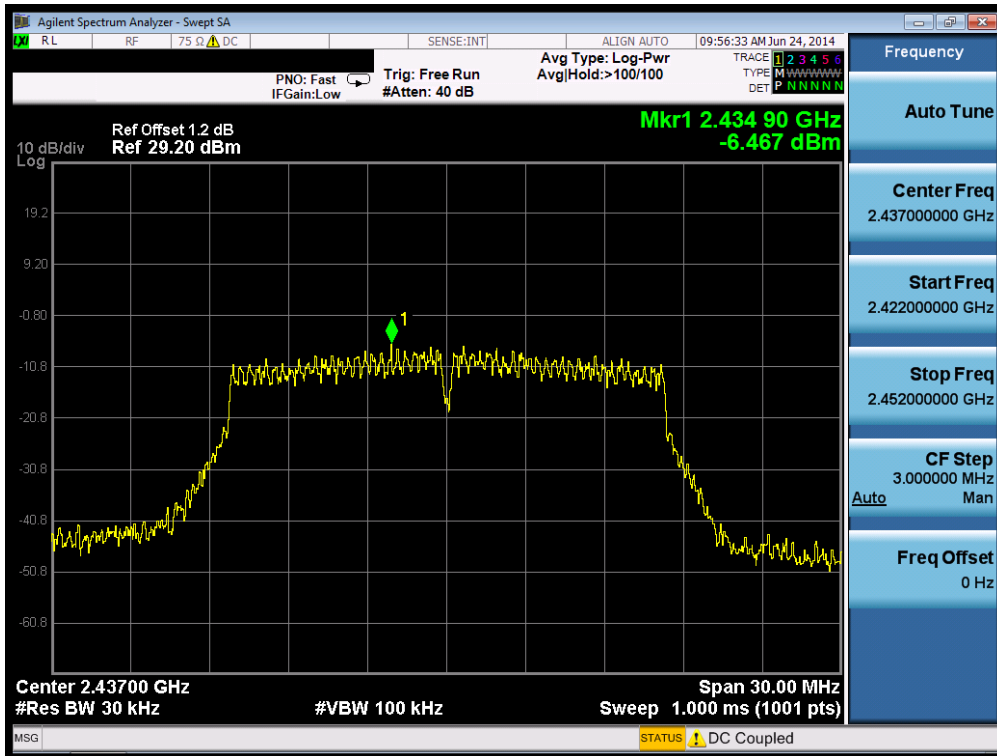
2.3. 11B\_HCH



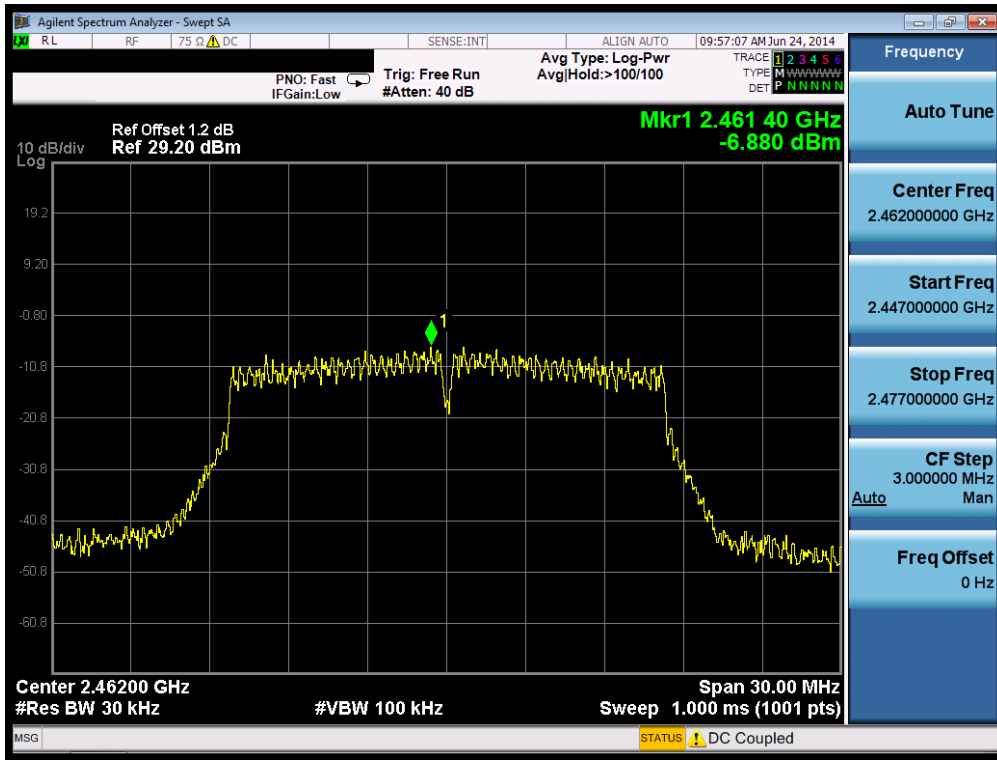
2.4. 11G\_LCH



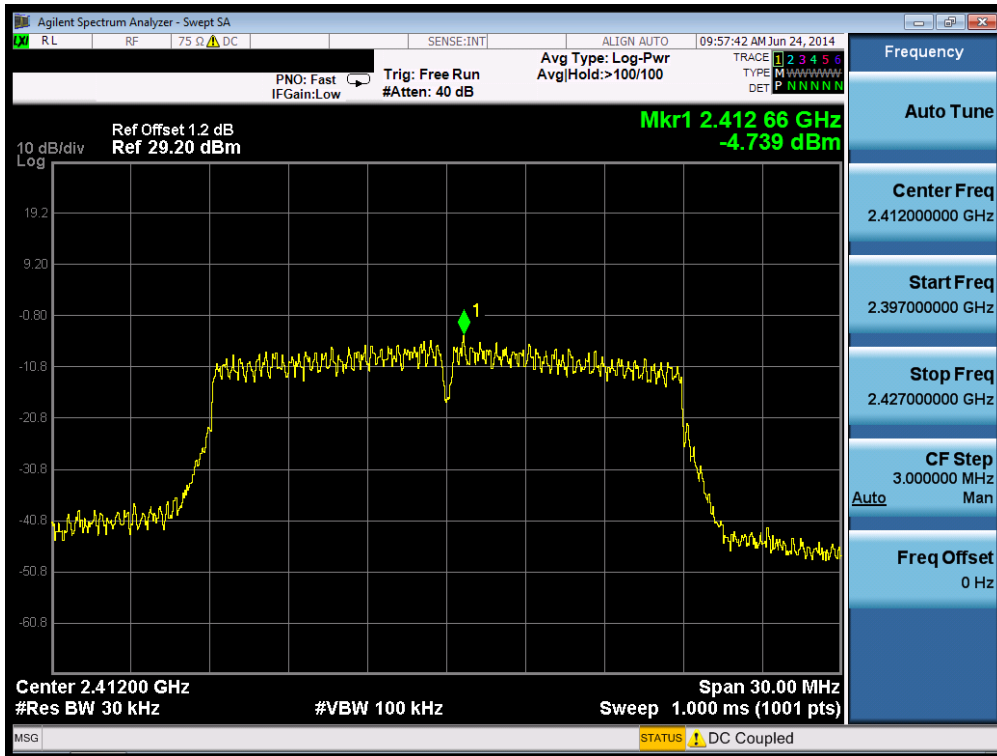
2.5. 11G\_MCH



2.6. 11G\_HCH

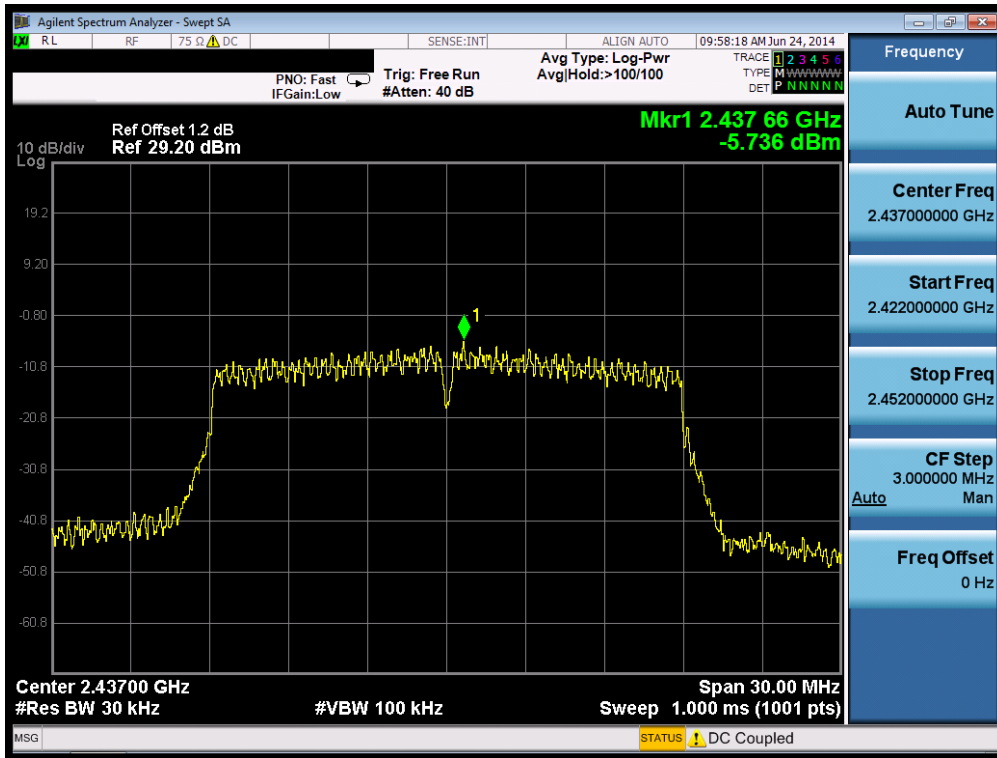


2.7. 11N20\_SISO\_LCH

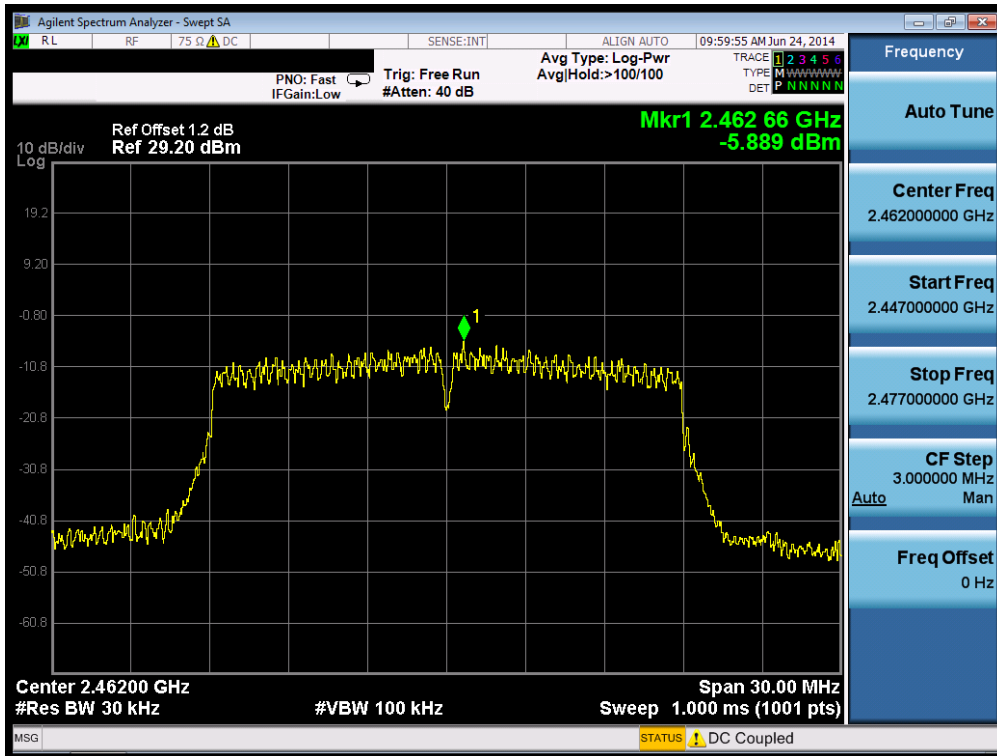




## 2.8. 11N20\_SISO\_MCH

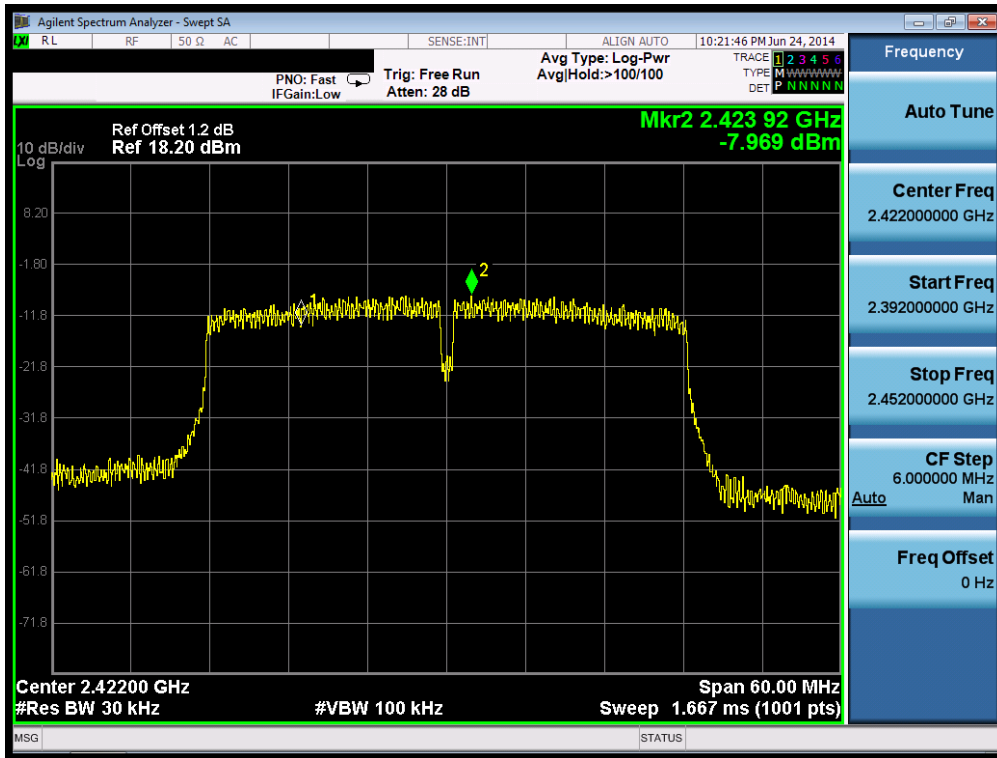


## 2.9. 11N20\_SISO\_HCH





## 2.10. 11N40\_SISO\_LCH

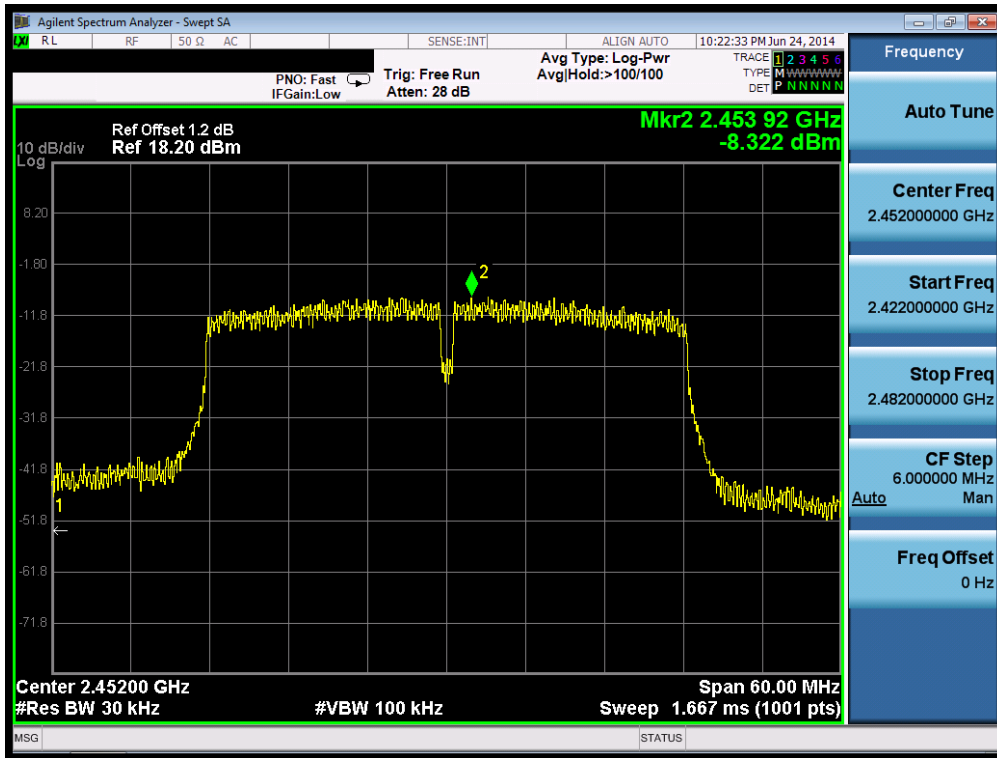


## 2.11. 11N40\_SISO\_MCH





## 2.12. 11N40\_SISO\_HCH



## Appendix D: Band Edges Compliance

### 1. Result Table

EUT Conf.	Test Channel	Carrier Power[dBm]	Max.Spurious Level [dBm]	Verdict
11B	LCH	-0.876	-34.412	PASS
11B	HCH	-1.509	-39.305	PASS
11G	LCH	-5.229	-39.412	PASS
11G	HCH	-4.422	-38.710	PASS
11N20_SISO	LCH	-4.111	-38.804	PASS
11N20_SISO	HCH	-3.596	-39.398	PASS
11N40_SISO	LCH	-6.802	-37.878	PASS
11N40_SISO	HCH	-8.135	-43.115	PASS

### 2. Test Plot

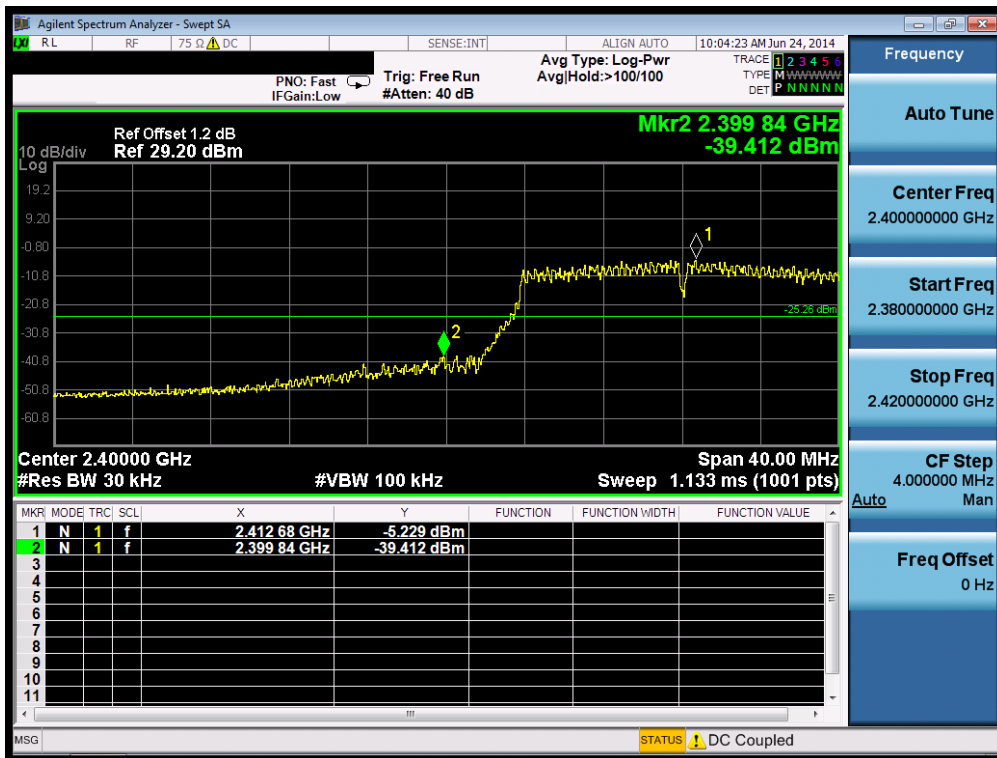
#### 2.1. 11B\_LCH



2.2. 11B\_HCH

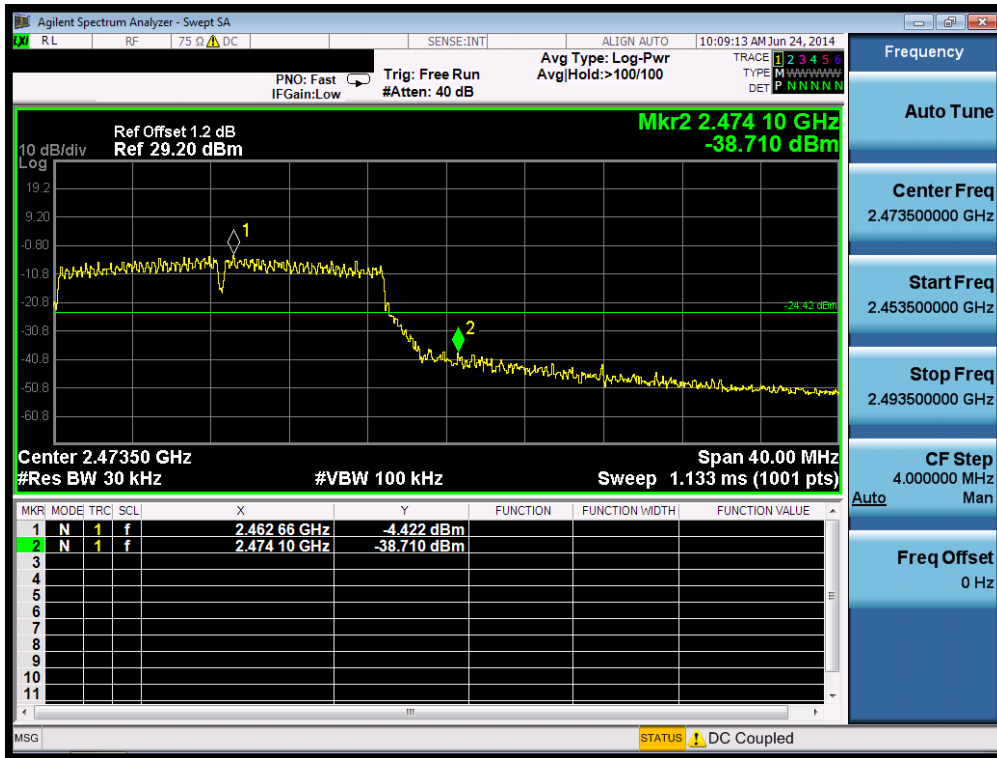


2.3. 11G\_LCH

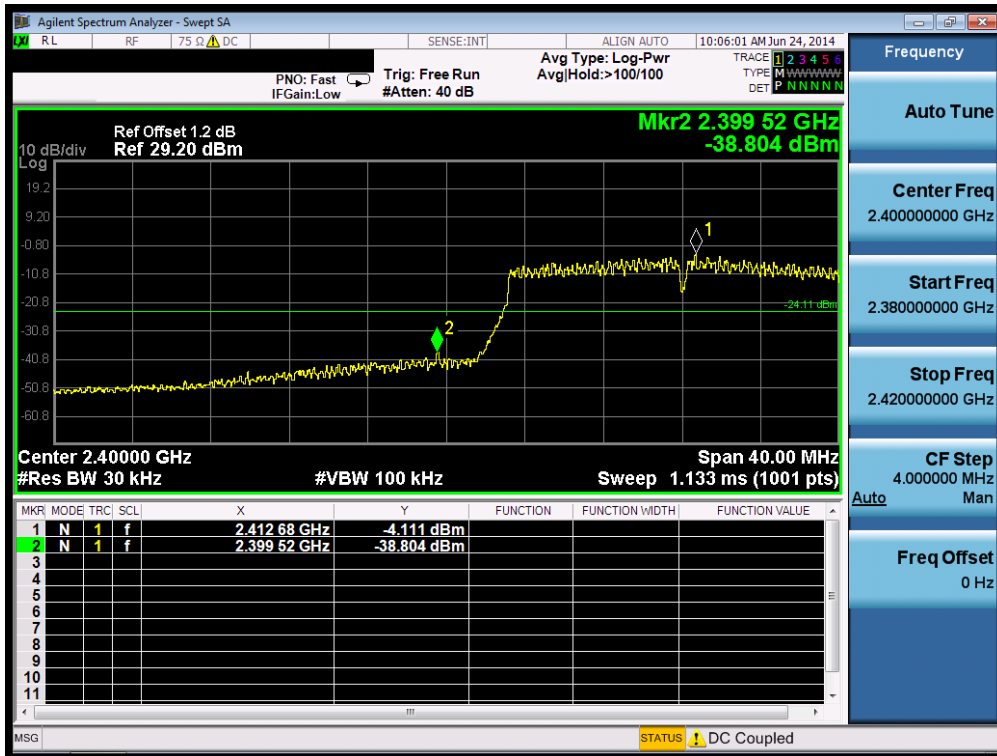




2.4. 11G\_HCH

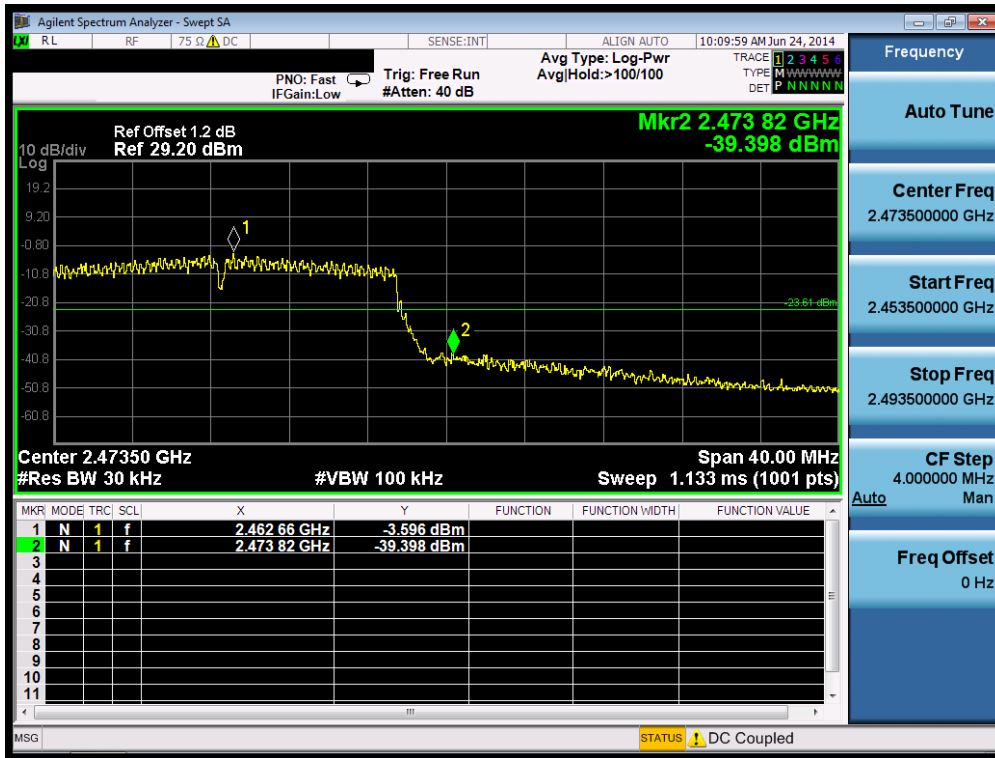


2.5. 11N20\_SISO\_LCH

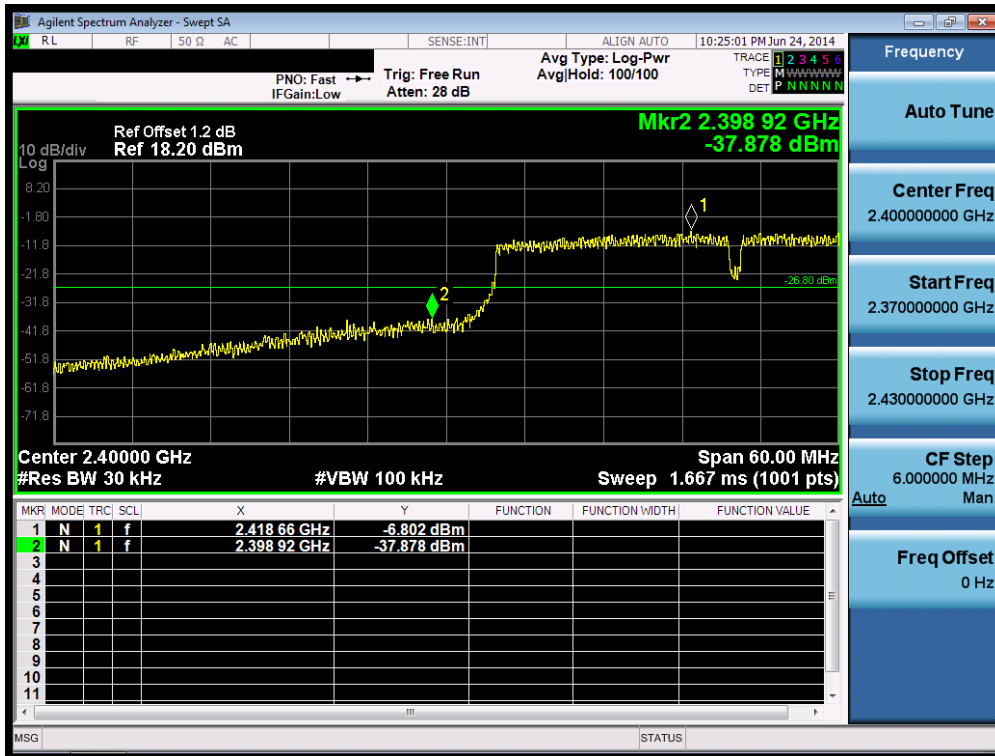




## 2.6. 11N20\_SISO\_HCH

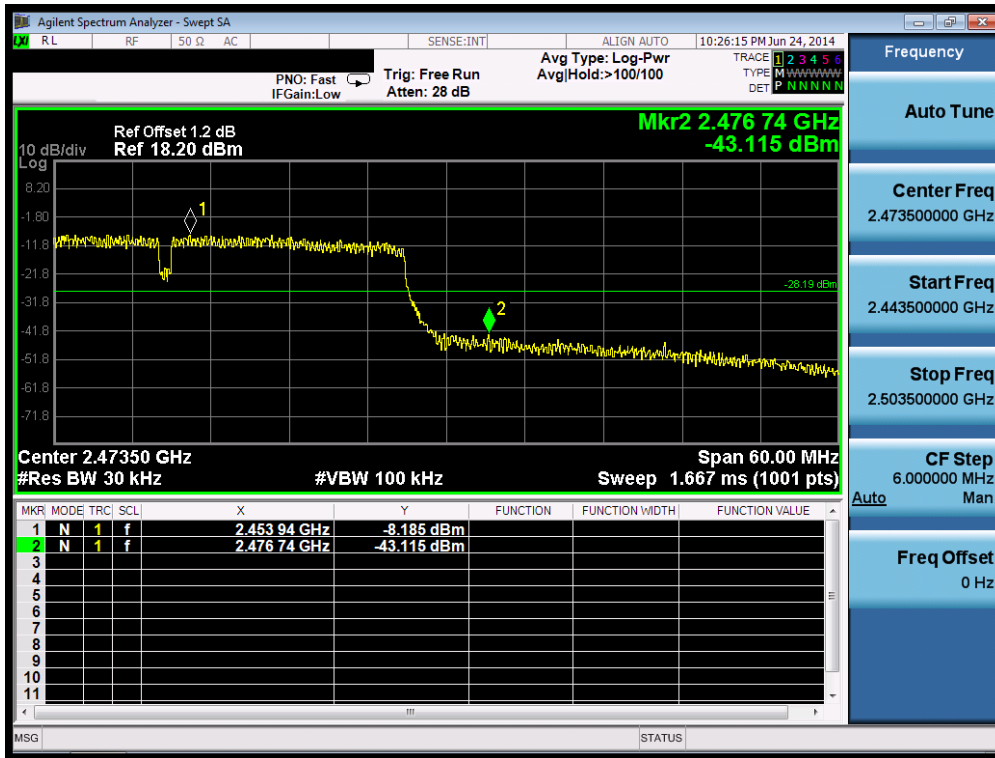


## 2.7. 11N40\_SISO\_LCH





## 2.8. 11N40\_SISO\_HCH



## Appendix E: Conducted RF Spurious Emission

### 1. Result Table

EUT Conf.	Test Channel	Pref [dBm]	Puw[dBm]	Verdict
11B	LCH	5.472	<Limit	PASS
11B	MCH	4.416	<Limit	PASS
11B	HCH	4.451	<Limit	PASS
11G	LCH	-1.712	<Limit	PASS
11G	MCH	-2.444	<Limit	PASS
11G	HCH	-2.547	<Limit	PASS
11N20_SISO	LCH	-1.815	<Limit	PASS
11N20_SISO	MCH	-2.967	<Limit	PASS
11N20_SISO	HCH	-2.793	<Limit	PASS
11N40_SISO	LCH	-4.834	<Limit	PASS
11N40_SISO	MCH	-4.893	<Limit	PASS
11N40_SISO	HCH	-5.017	<Limit	PASS

### 2. Test Plot

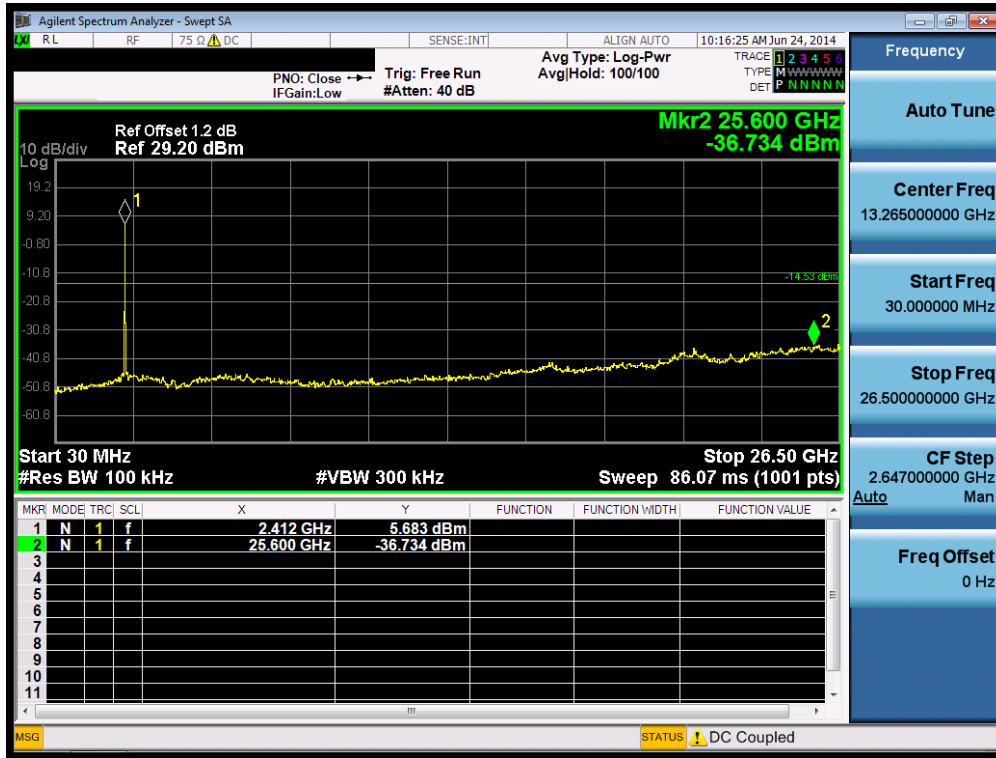
#### 2.1. 11B\_LCH

Pref:





### Puw:



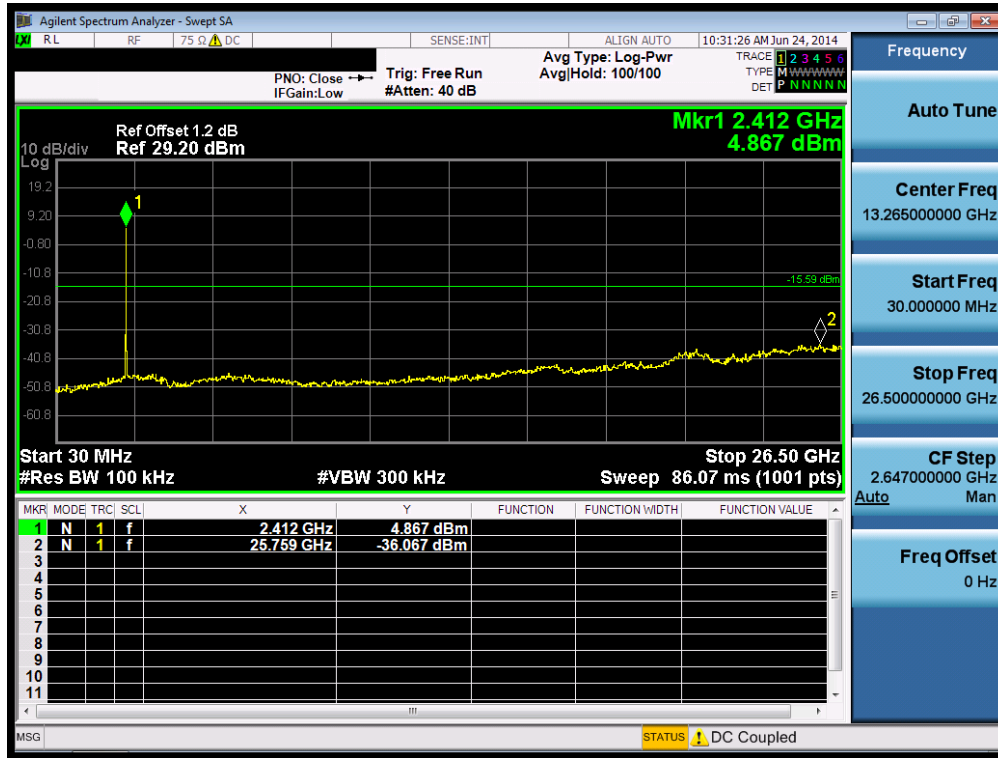
### 2.2. 11B\_MCH

### Pref:





Puw:

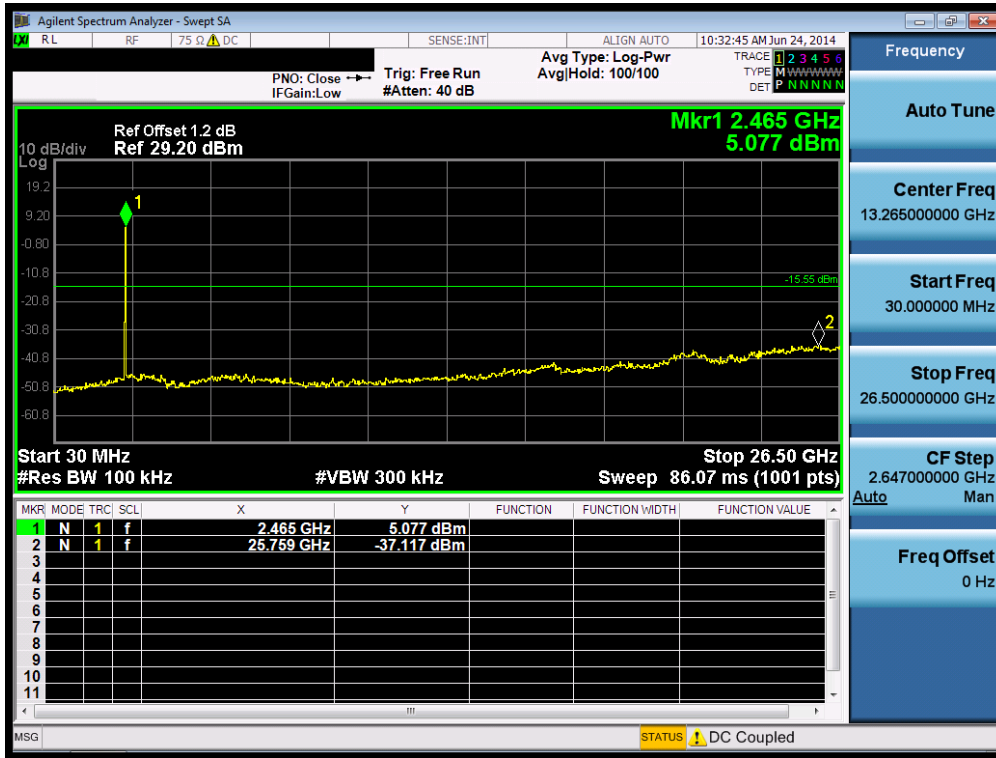


### 2.3. 11B\_HCH

Pref:



Puw:

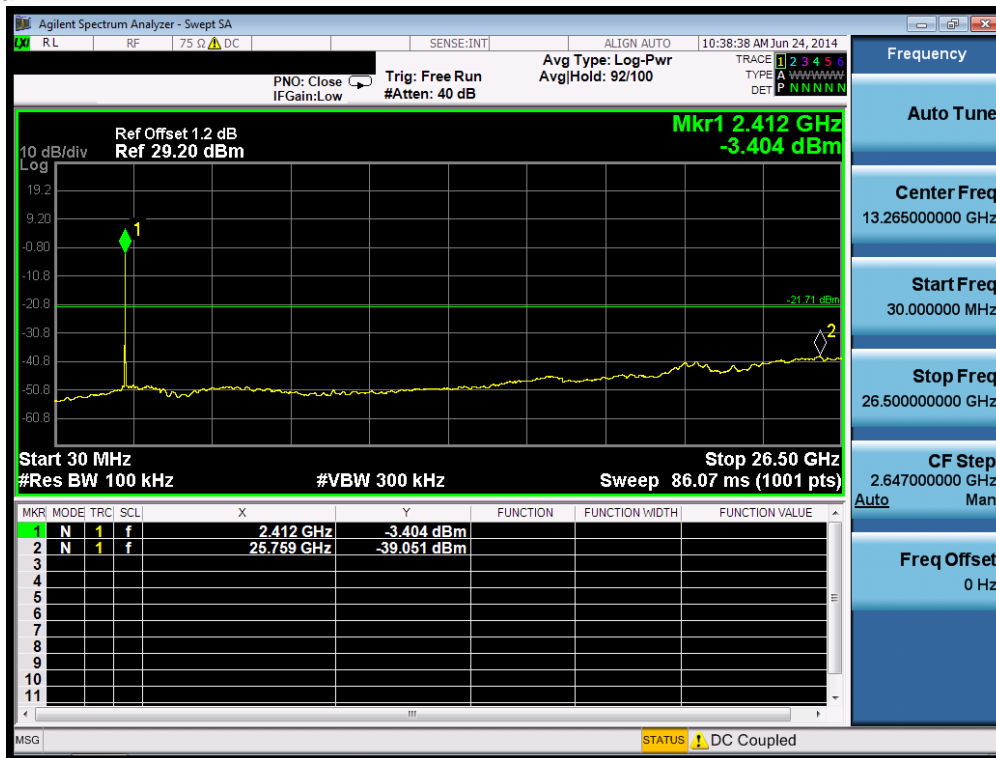


2.4. 11G\_LCH

Pref:



**Puw:**



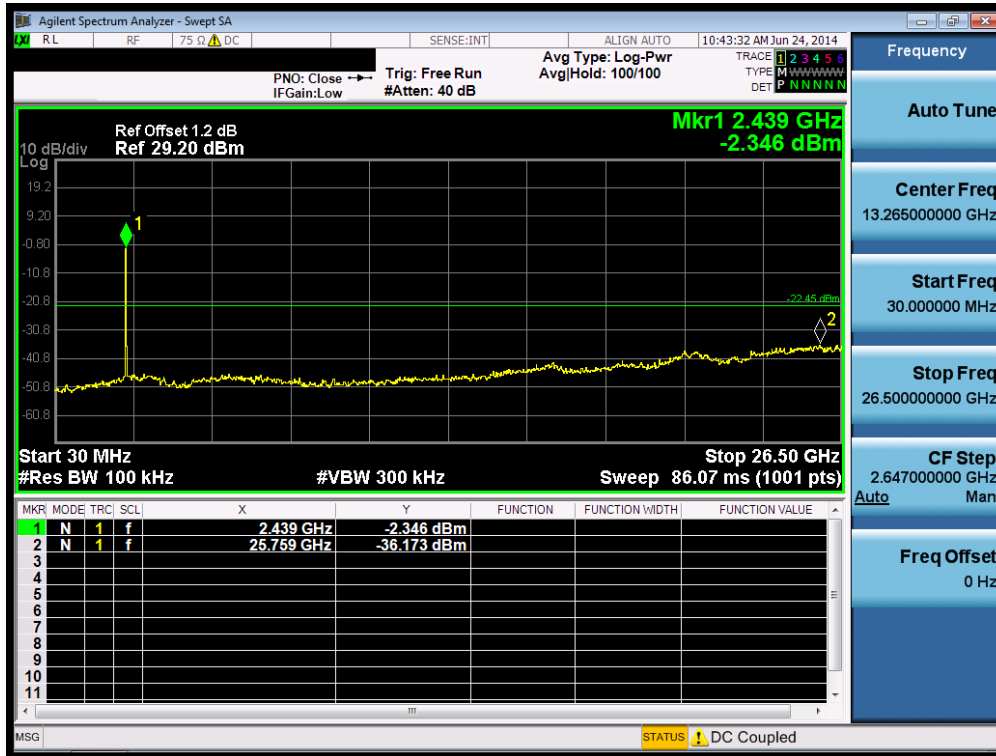
**2.5. 11G\_MCH**

**Pref:**





**Puw:**

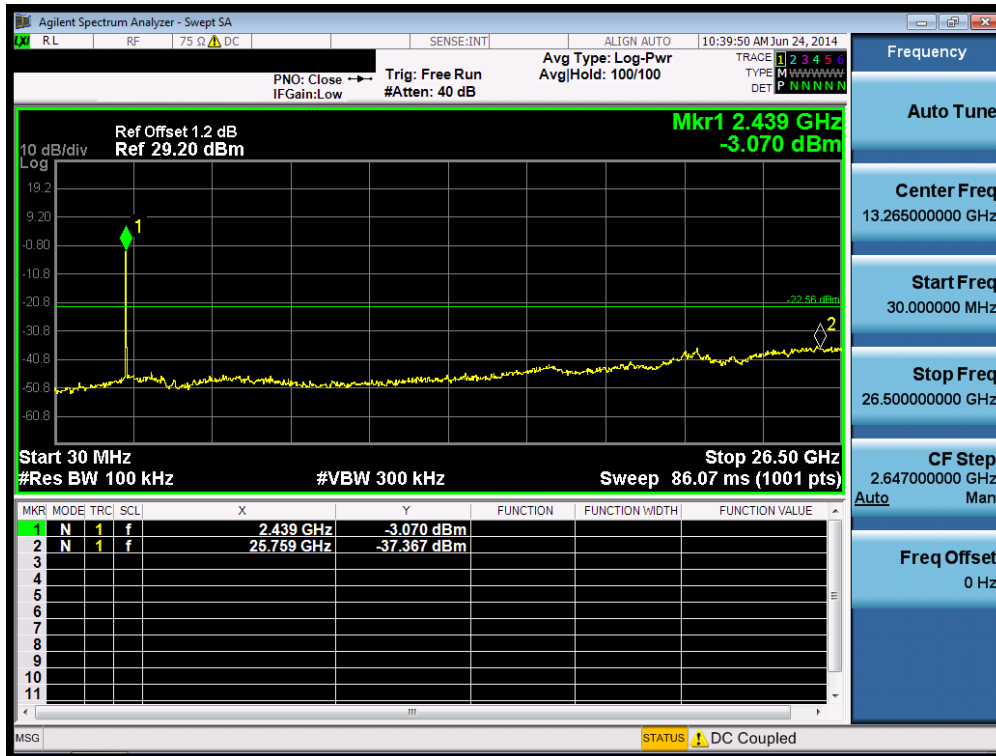


**2.6. 11G\_HCH**

**Pref:**



**Puw:**

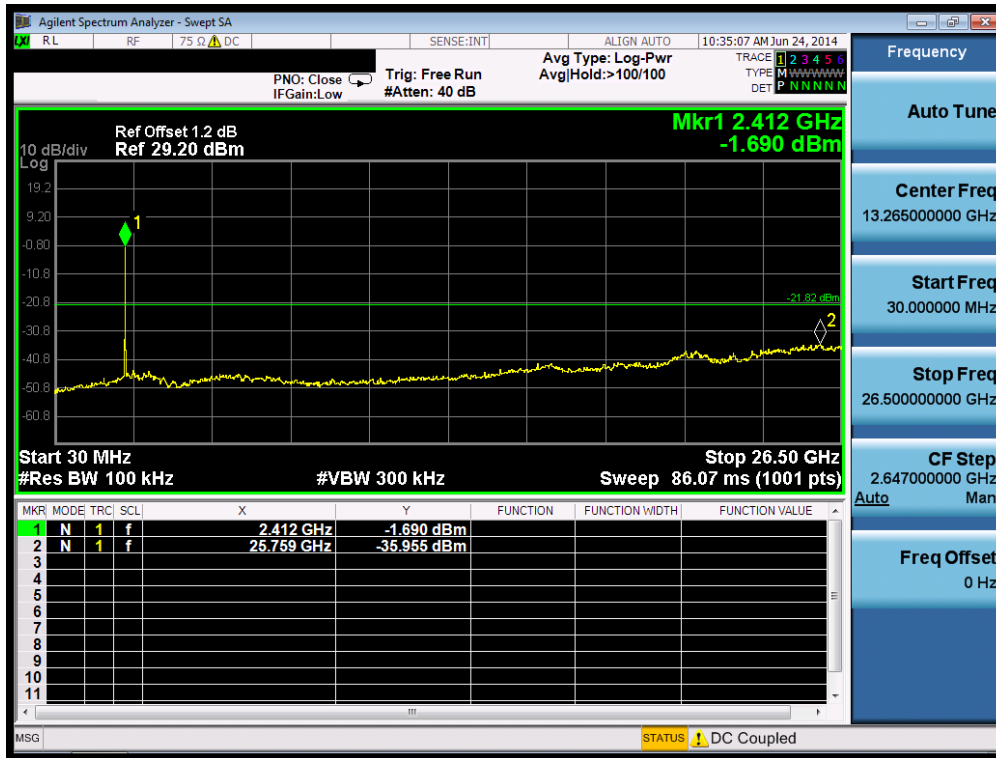


2.7. 11N20\_SISO\_LCH

Pref:



Puw:

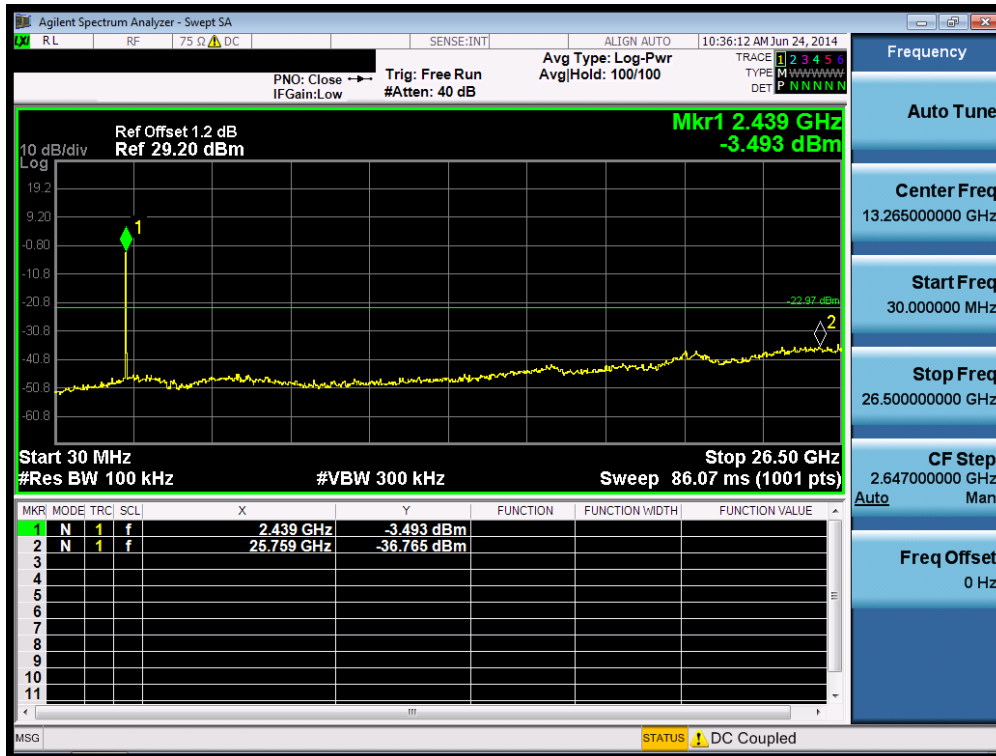


2.8. 11N20\_SISO\_MCH

Pref:



Puw:

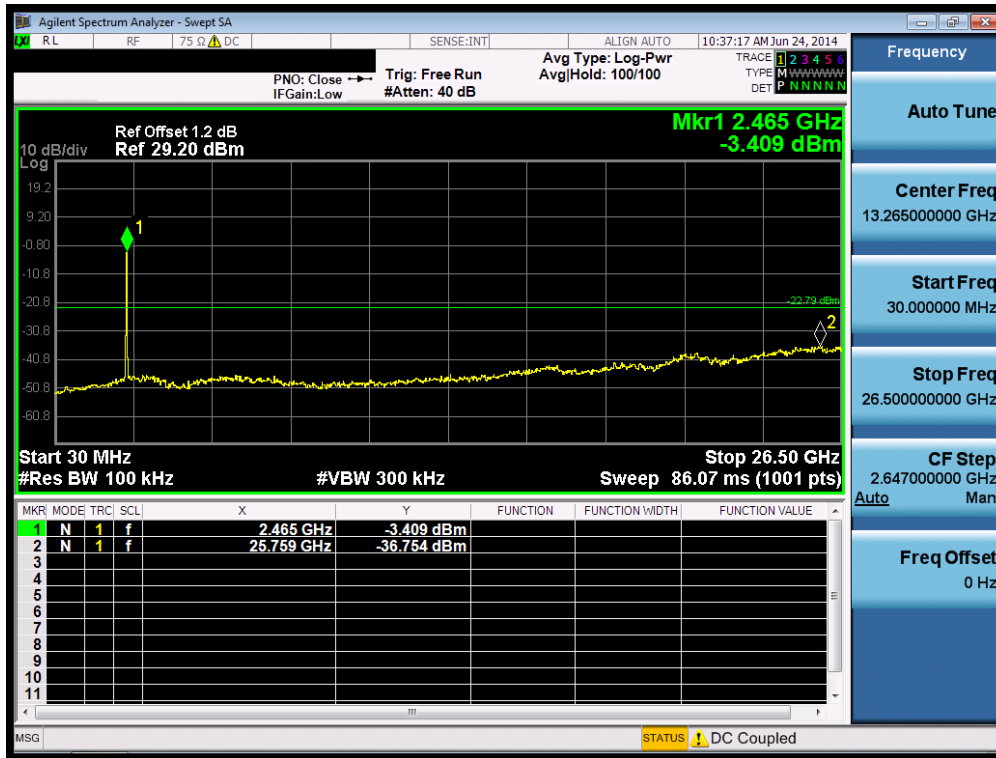


2.9. 11N20\_SISO\_HCH

Pref:

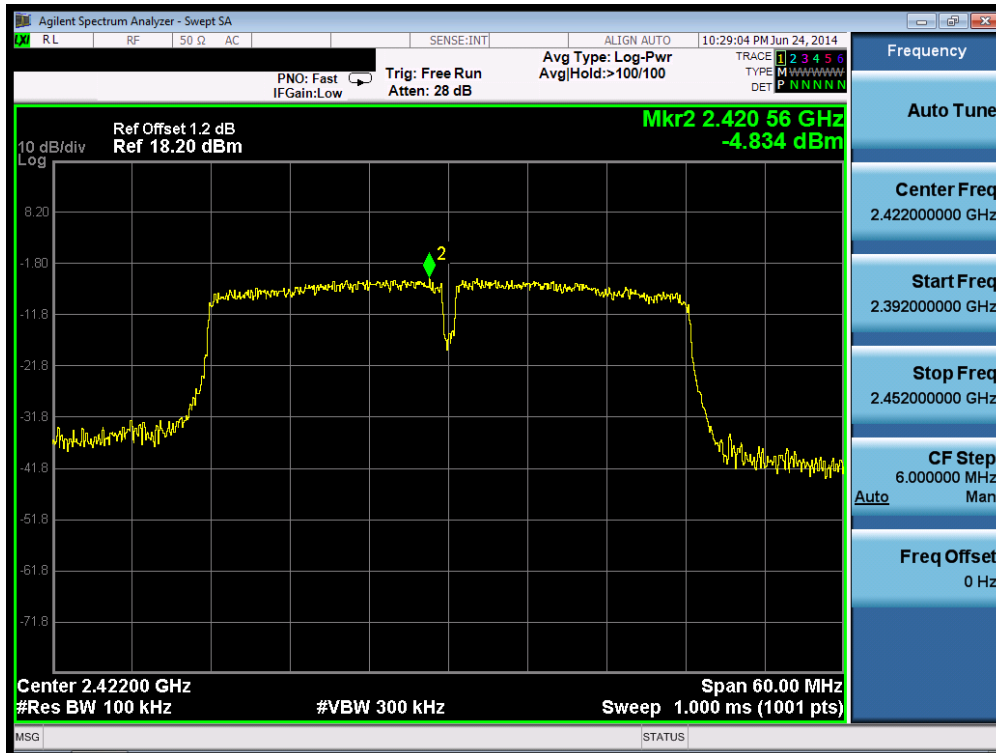


Puw:

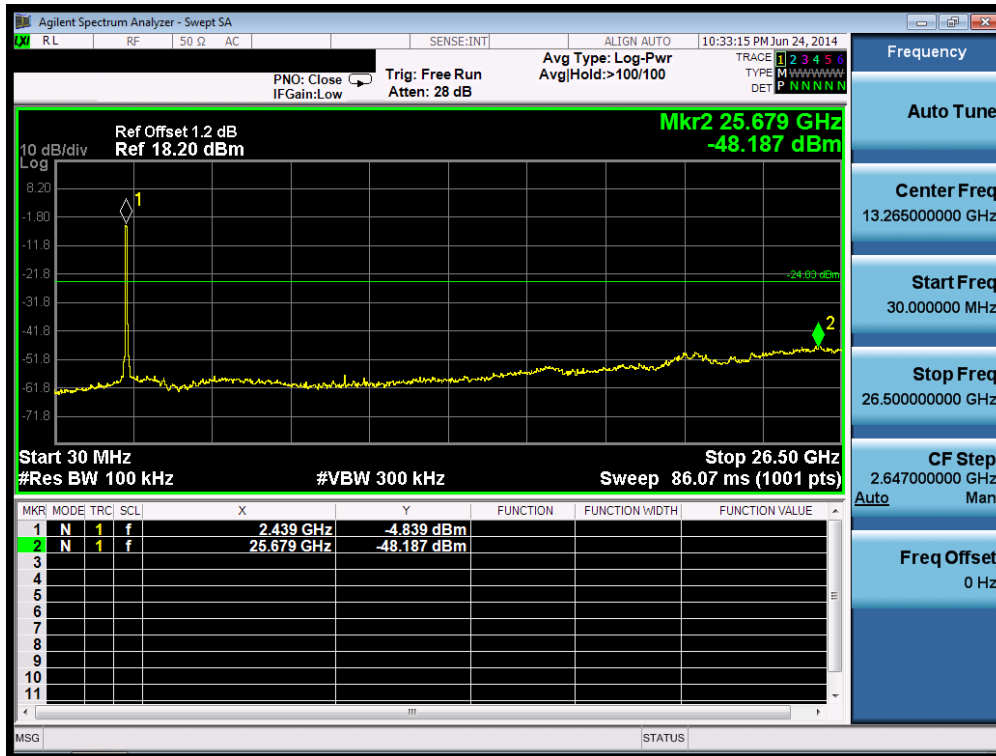


2.10. 11N40\_SISO\_LCH

Pref:



Puw:

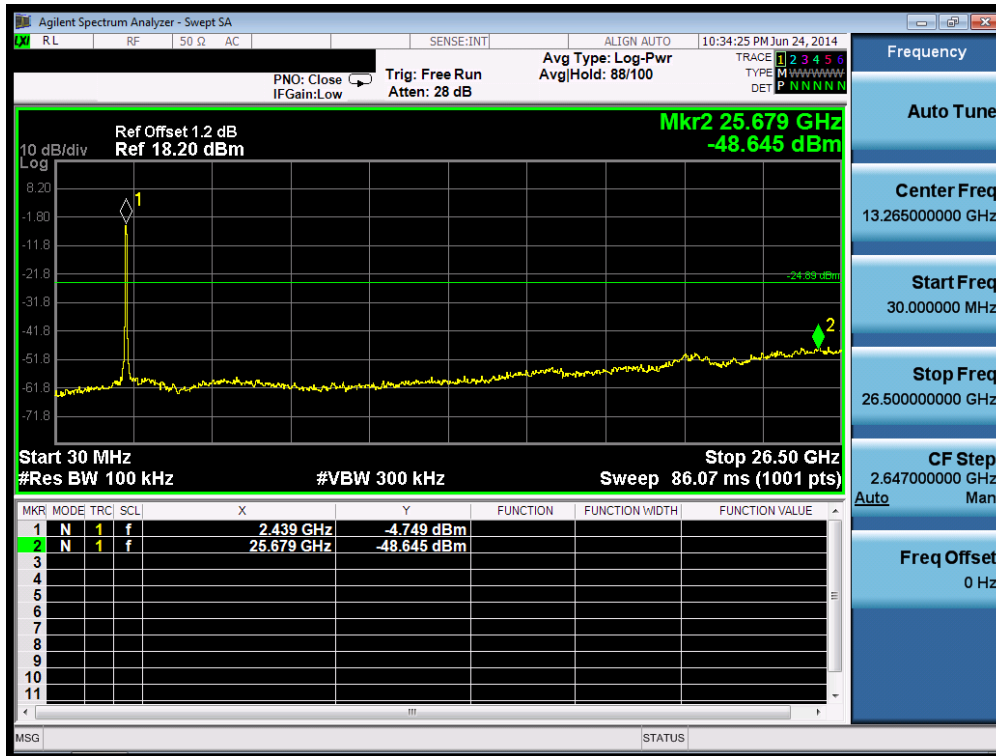


2.11. 11N40\_SISO\_MCH

Pref:

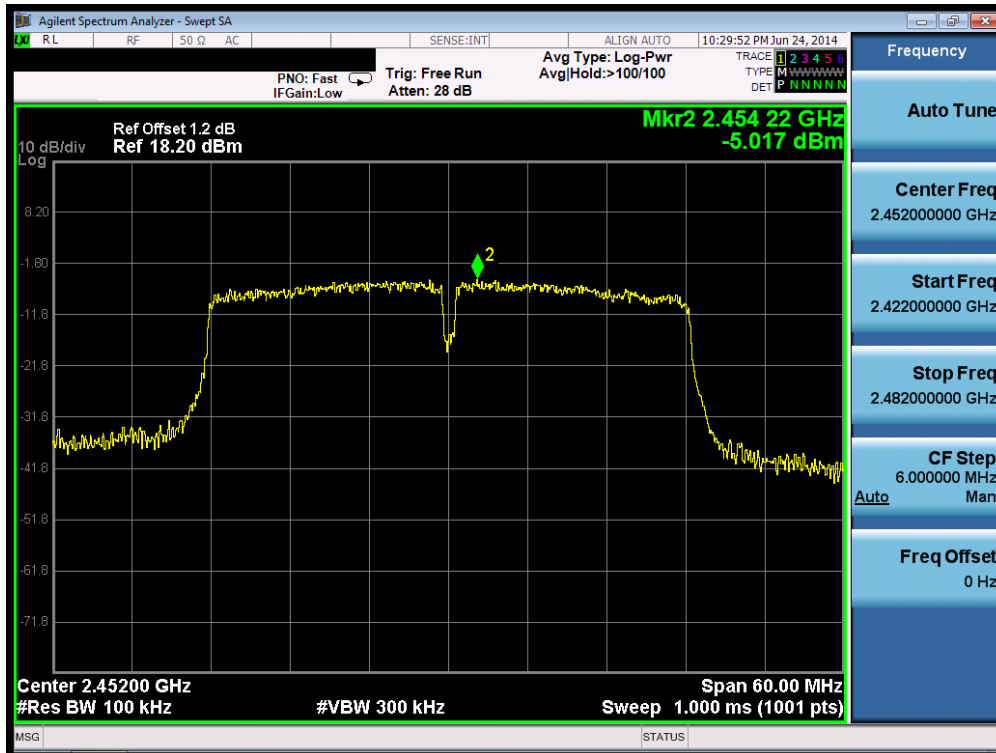


Puw:

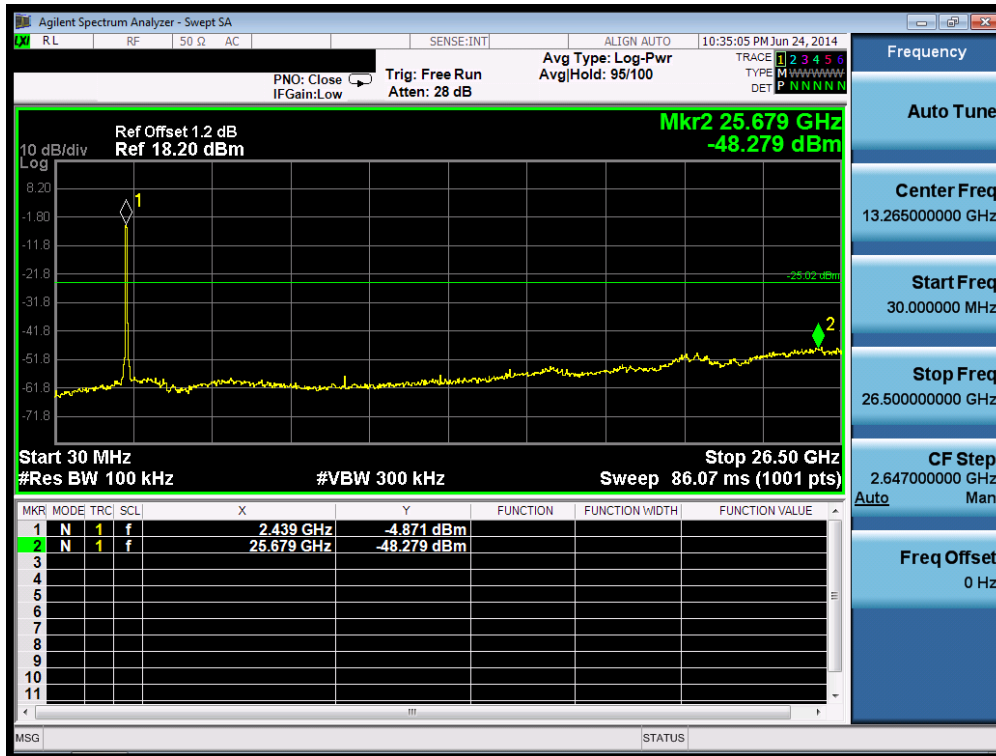


2.12. 11N40\_SISO\_HCH

Pref:



Puw:





## Appendix F: Radiated Spurious Emission & Spurious in Restricted Band

### Part 1: Testing Range of “9kHz to 30MHz”

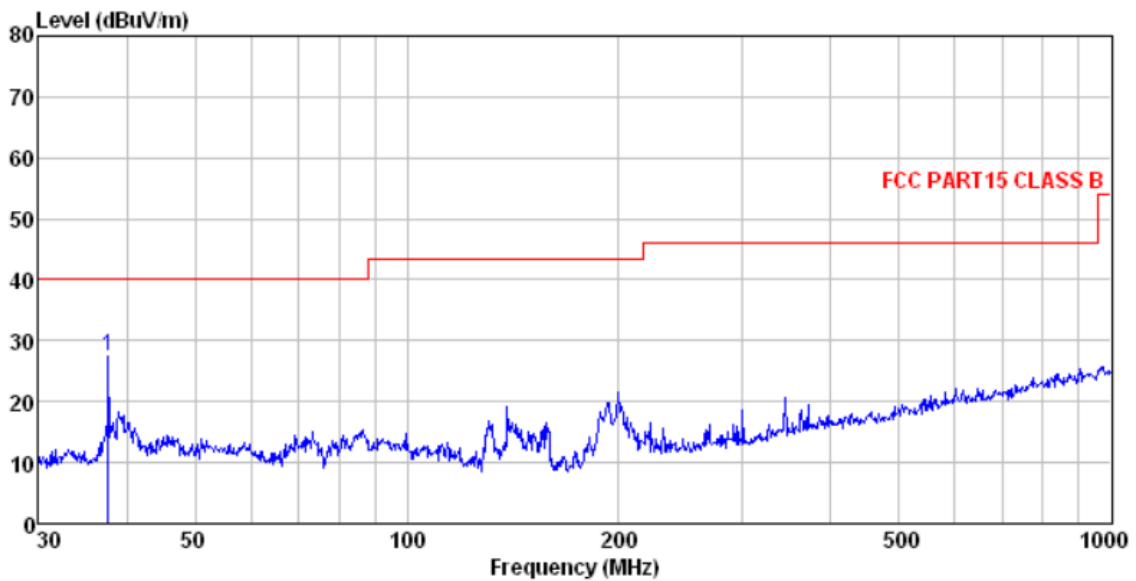
Note 1: The test for testing range of “9kHz to 30MHz” is measured with a loop antenna. This range will not be presented for each Test Mode and each Channel.

Note 2: The emissions in this range are mainly from background noise, so this report will not show the plot unless insistent emission (within 20dB down below the limit) is detected.

### Part 2: Testing Range of “30 MHz to 1 GHz”

Note 1: The test results and plot for testing range of “30MHz to 1GHz” showed as below is the WORST case for all Test Modes and Channels. This range will not be presented for each Test Mode and each Channel.

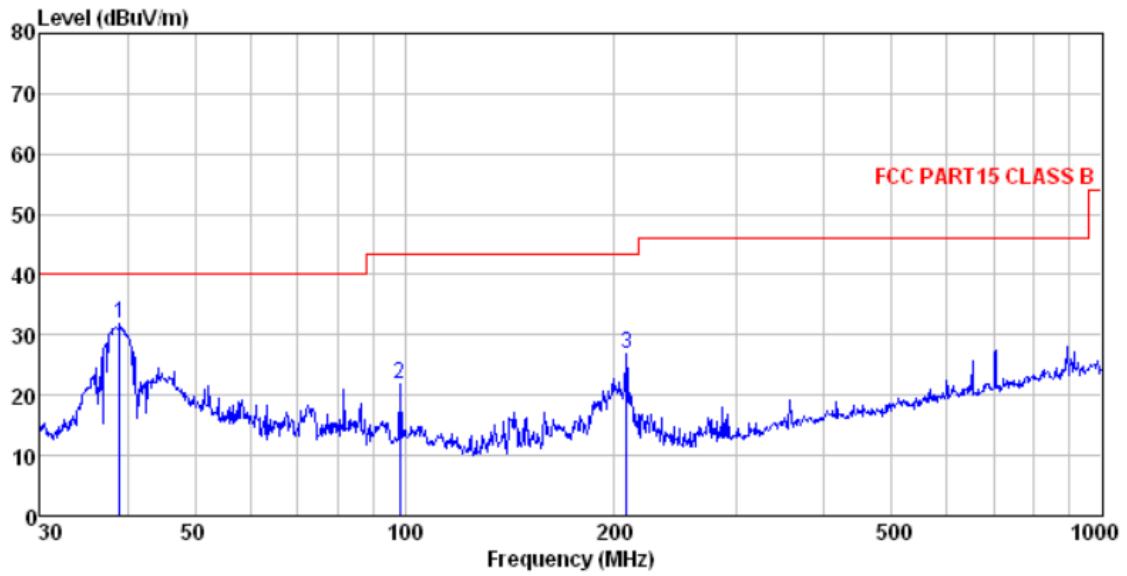
#### 30MHz~1GHz (Horizontal)



MEASUREMENT RESULT: QP Detector

	Read Antenna	Cable	Preamp	Limit	Over			
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	37.680	43.75	13.01	0.50	29.92	27.34	40.00	-12.66

**30MHz~1GHz(Vertical)**



MEASUREMENTRESULT:QPDetector

	ReadAntenna	Cable Preamp	Limit	Over				
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	39.024	47.83	13.34	0.51	29.91	31.77	40.00	-8.23
2	98.487	37.37	13.06	0.95	29.54	21.84	43.50	-21.66
3	207.850	43.42	10.80	1.42	28.78	26.86	43.50	-16.64

### Part3: Testing Range of“1GHz to 25 GHz”

Note1:Two

limitsarerequiredinthetestingrangeabove1GHz,thatisPeaklimit(74dB $\mu$ V/m)andAverageLimit (54dB $\mu$ V/m).

Note 2: For other frequencies, if their emissions are not stronger than the background noise, they will not be recorded in this report.

#### Above 1GHz

##### 802.11b, Low channel

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	35.82	PK	-8.12	74.0	38.18	H
1869	38.25	PK	-6.98	74.0	35.75	H
4824	49.18	PK	0.25	74.0	24.82	H
1205	23.53	Ave.	-8.12	54.0	30.47	V
1869	26.38	Ave.	-6.98	54.0	27.62	V
4824	37.63	Ave.	0.25	54.0	16.37	V

##### 802.11b, Middle channel

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	36.06	PK	-8.12	74.0	37.94	H
1869	39.09	PK	-6.98	74.0	34.91	H
4874	48.69	PK	0.40	74.0	25.31	H
1205	24.24	Ave.	-8.12	54.0	29.76	V
1869	26.27	Ave.	-6.98	54.0	27.73	V
4874	37.35	Ave.	0.40	54.0	16.65	V

##### 802.11b, High channel

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	34.95	PK	-8.12	74.0	39.05	H
1869	38.21	PK	-6.98	74.0	35.79	H
4924	49.76	PK	0.57	74.0	24.24	H
1205	24.04	Ave.	-8.12	54.0	29.96	V
1869	26.23	Ave.	-6.98	54.0	27.77	V
4924	38.19	Ave.	0.57	54.0	15.81	V

**802.11g, Low channel**

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	35.96	PK	-8.12	74.0	38.04	H
1869	37.92	PK	-6.98	74.0	36.08	H
4824	47.24	PK	0.25	74.0	26.76	H
1205	22.79	Ave.	-8.12	54.0	31.21	V
1869	27.39	Ave.	-6.98	54.0	26.61	V
4824	37.47	Ave.	0.25	54.0	16.53	V

**802.11g, Middle channel**

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	36.72	PK	-8.12	74.0	37.28	H
1869	38.43	PK	-6.98	74.0	35.57	H
4874	46.95	PK	0.40	74.0	27.05	H
1205	24.22	Ave.	-8.12	54.0	29.78	V
1869	27.27	Ave.	-6.98	54.0	26.73	V
4874	35.35	Ave.	0.40	54.0	18.65	V

**802.11g, High channel**

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	36.09	PK	-8.12	74.0	37.91	H
1869	39.02	PK	-6.98	74.0	34.98	H
4924	46.65	PK	0.57	74.0	27.35	H
1205	23.34	Ave.	-8.12	54.0	30.66	V
1869	26.49	Ave.	-6.98	54.0	27.51	V
4924	36.32	Ave.	0.57	54.0	17.68	V

**802.11n-HT20, Low channel**

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	36.10	PK	-8.12	74.0	37.90	H
1869	39.14	PK	-6.98	74.0	34.86	H
4824	44.80	PK	0.25	74.0	29.20	H
1205	24.43	Ave.	-8.12	54.0	29.57	V
1869	25.54	Ave.	-6.98	54.0	28.46	V
4824	34.23	Ave.	0.25	54.0	19.77	V

**802.11n-HT20, Middle channel**

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	36.65	PK	-8.12	74.0	37.35	H
1869	38.30	PK	-6.98	74.0	35.70	H
4874	46.39	PK	0.40	74.0	27.61	H
1205	23.56	Ave.	-8.12	54.0	30.44	V
1869	26.72	Ave.	-6.98	54.0	27.28	V
4874	35.78	Ave.	0.40	54.0	18.22	V

**802.11n-HT20, High channel**

Frequency (MHz)	Corr.Amp. (dB $\mu$ V/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dB $\mu$ V/m)	Margin (dB)	Polarization
1205	36.42	PK	-8.12	74.0	37.58	H
1869	38.34	PK	-6.98	74.0	35.66	H
4924	44.72	PK	0.57	74.0	29.28	H
1205	23.86	Ave.	-8.12	54.0	30.14	V
1869	25.40	Ave.	-6.98	54.0	28.6	V
4924	34.52	Ave.	0.57	54.0	19.48	V

**802.11n-HT40, Low channel**

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	35.58	PK	-8.12	74.0	38.42	H
1869	37.17	PK	-6.98	74.0	36.83	H
4844	41.43	PK	0.19	74.0	32.57	H
1205	22.92	Ave.	-8.12	54.0	31.08	V
1869	25.79	Ave.	-6.98	54.0	28.21	V
4844	33.37	Ave.	0.19	54.0	20.63	V

**802.11n-HT40, Middle channel**

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	36.54	PK	-8.12	74.0	37.46	H
1869	37.49	PK	-6.98	74.0	36.51	H
4874	41.64	PK	0.93	74.0	32.36	H
1205	23.87	Ave.	-8.12	54.0	30.13	V
1869	26.35	Ave.	-6.98	54.0	27.65	V
4874	31.85	Ave.	0.93	54.0	22.15	V

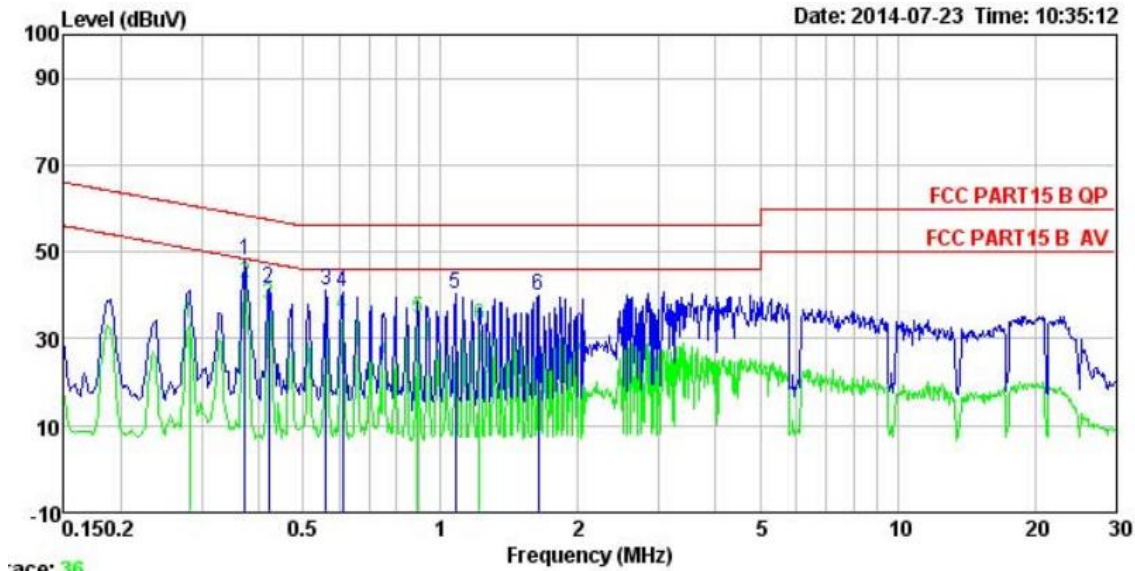
**802.11n-HT40, High channel**

Frequency (MHz)	Corr.Amp. (dBμV/m)	Detector (PK/Ave.)	Corr. (dB)	Limit (dBμV/m)	Margin (dB)	Polarization
1205	35.71	PK	-8.12	74.0	38.29	H
1869	37.05	PK	-6.98	74.0	36.95	H
4904	42.49	PK	0.74	74.0	31.51	H
1205	24.13	Ave.	-8.12	54.0	29.87	V
1869	26.60	Ave.	-6.98	54.0	27.4	V
4904	31.28	Ave.	0.74	54.0	22.72	V

**AppendixG:ConductedEmissionatPowerPort**

Channel 6

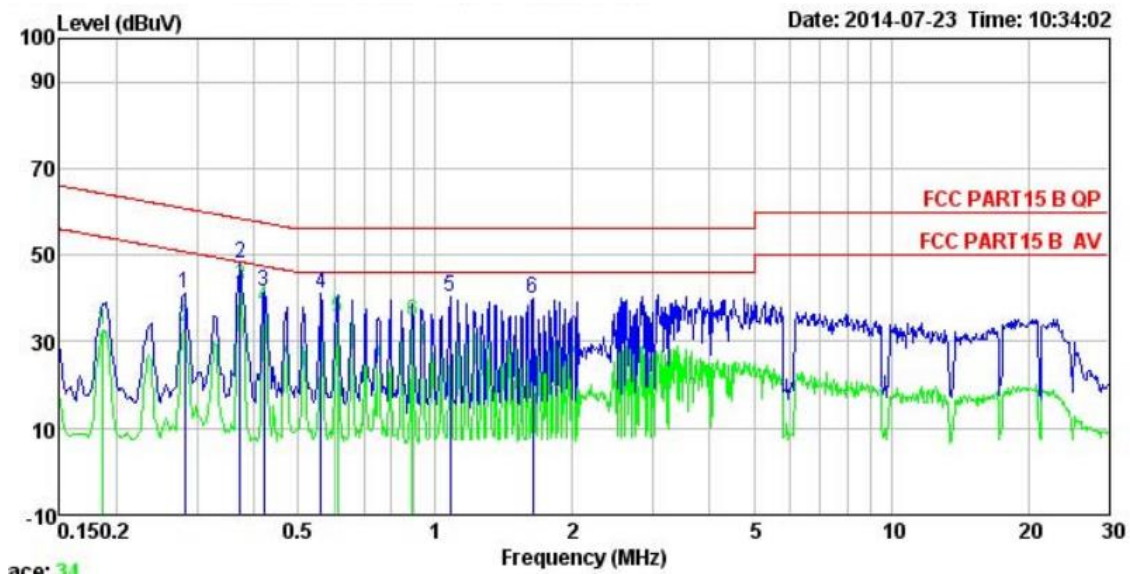
Line



Trace: 36

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.373	36.89	0.28	10.73	47.90	58.43	-10.53	Peak
2	0.421	30.46	0.28	10.73	41.47	57.42	-15.95	Peak
3	0.561	30.28	0.27	10.77	41.32	56.00	-14.68	Peak
4	0.611	29.67	0.25	10.77	40.69	56.00	-15.31	Peak
5	1.077	29.12	0.25	10.88	40.25	56.00	-15.75	Peak
6	1.636	28.63	0.26	10.93	39.82	56.00	-16.18	Peak

Neutral



	Read Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.282	30.29	0.26	10.74	41.29	60.76	-19.47	Peak
2	0.373	36.89	0.25	10.73	47.87	58.43	-10.56	Peak
3	0.421	30.46	0.26	10.73	41.45	57.42	-15.97	Peak
4	0.561	30.29	0.25	10.77	41.31	56.00	-14.69	Peak
5	1.077	29.12	0.23	10.88	40.23	56.00	-15.77	Peak
6	1.636	28.64	0.27	10.93	39.84	56.00	-16.16	Peak

END