

FCC Test Report

Product Name	Alcatel Wi-Fi camera
Model No	IPC-21FX
FCC ID.	BJM-AWIV-C01

Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3, Taipei, 10451, Taiwan

Date of Receipt	Jan. 14, 2016
Issue Date	Mar. 07, 2016
Report No.	1610255R-RFUSP26V00
Report Version	V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

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Test Report

Issue Date: Mar. 07, 2016

Report No.: 1610255R-RFUSP26V00



Product Name	Alcatel Wi-Fi camera
Applicant	Tatung Company
Address	22 Chungshan N Road Sec 3, Taipei, 10451, Taiwan
Manufacturer	Tatung Company
Model No.	IPC-21FX
FCC ID.	BJM-AWIV-C01
EUT Rated Voltage	AC 100-240V, 50/60Hz
EUT Test Voltage	AC 120V/60Hz
Trade Name	Alcatel
Applicable Standard	FCC CFR Title 47 Part 15 Subpart C: 2014 ANSI C63.4: 2014, ANSI C63.10: 2013 KDB 558074 D01 DTS Meas Guidance v03r04
Test Result	Complied

Documented By

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Tested By

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Approved By

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Vincent Lin

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1. GENERAL INFORMATION

1.1. EUT Description

Product Name	Alcatel Wi-Fi camera
Trade Name	Alcatel
Model No.	IPC-21FX
FCC ID.	BJM-AWIV-C01
Frequency Range	2412-2462MHz for 802.11b/g/n-20BW, 2422-2452MHz for 802.11n-40BW
Number of Channels	802.11b/g/n-20MHz: 11, n-40MHz: 7
Data Speed	802.11b: 1-11Mbps, 802.11g: 6-54Mbps, 802.11n: up to 150Mbps
Type of Modulation	802.11b:DSSS (DBPSK, DQPSK, CCK) 802.11g/n:OFDM (BPSK, QPSK, 16QAM, 64QAM)
Antenna Type	Spring Antenna
Antenna Gain	Refer to the table "Antenna List"
Channel Control	Auto
Power Adapter (1)	MFR: SWITCHING; M/N: S005ANU0500100 Input: AC 100~240V~ 50/60Hz; 200mA Output: DC 5.0V, 1000mA Cable out: Non-shielded, 1.8m
Power Adapter (2)	MFR: SWITCHING; M/N: S006MU0500100 Input: AC 100~240V~ 50/60Hz; 300mA Output: DC 5.0V, 1000mA Cable out: Non-shielded, 1.8m
Power Adapter (3)	MFR: SWITCHING; M/N: S008ACM0500100 Input: AC 100~240V~ 50/60Hz; 300mA Output: DC 5.0V, 1000mA Cable out: Non-shielded, 1.8m
Contain Module	BL-R8723RD2

Antenna List

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	XiuHua	B043	Spring Antenna	0dBi For 2.4GHz

Note: 1. The antenna of EUT conforms to FCC 15.203.

802.11b/g/n-20MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 01:	2412 MHz	Channel 02:	2417 MHz	Channel 03:	2422 MHz	Channel 04:	2427 MHz
Channel 05:	2432 MHz	Channel 06:	2437 MHz	Channel 07:	2442 MHz	Channel 08:	2447 MHz
Channel 09:	2452 MHz	Channel 10:	2457 MHz	Channel 11:	2462 MHz		

802.11n-40MHz Center Frequency of Each Channel:

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
Channel 03:	2422 MHz	Channel 04:	2427 MHz	Channel 05:	2432 MHz	Channel 06:	2437 MHz
Channel 07:	2442 MHz	Channel 08:	2447 MHz	Channel 09:	2452 MHz		

Note:

1. The EUT is a Alcatel Wi-Fi camera with a built-in WLAN transceiver.
2. Regarding to the operation frequency, the lowest, middle and highest frequency are selected to perform the test.
3. Lowest and highest data rates are tested in each mode. Only worst case is shown in the report.
(802.11b is 1Mbps 、802.11g is 6Mbps 、802.11n(20M-BW) is 7.2Mbps and 802.11n(40M-BW) is 15Mbps)
4. These tests are conducted on a sample for the purpose of demonstrating compliance of 802.11b/g/n transmitter with Part 15 Subpart C Paragraph 15.247 of spread spectrum devices.

Test Mode:	Mode 1: Transmit (802.11b 1Mbps)
	Mode 2: Transmit (802.11g 6Mbps)
	Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)
	Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

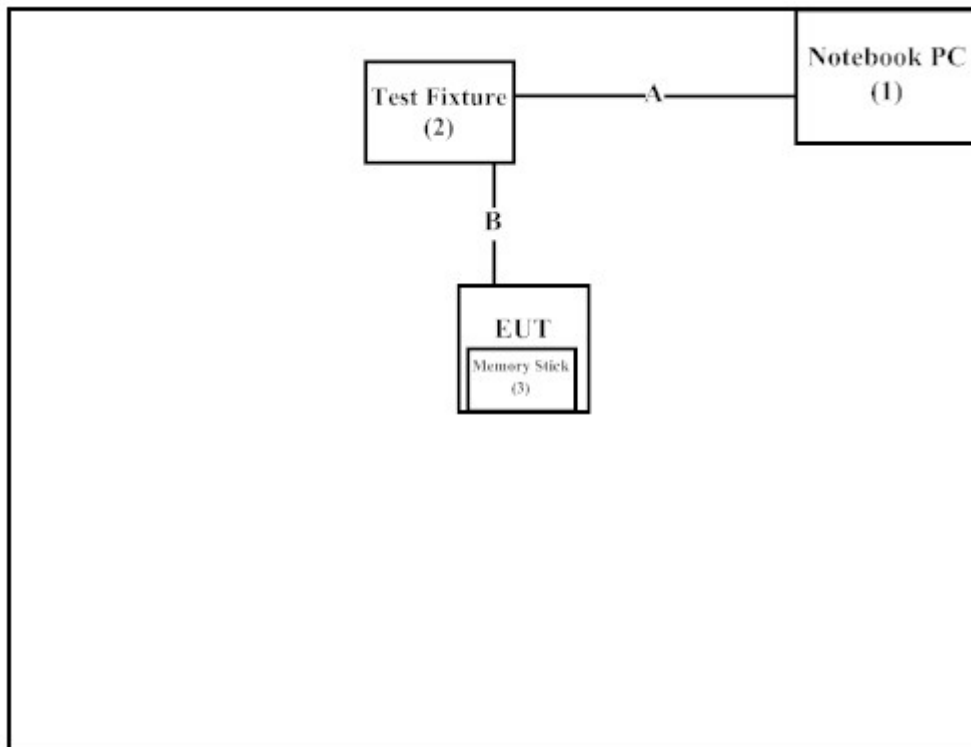
1.3. Tested System Details

The types for all equipment, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook PC	DELL	M65	CG098	Non-Shielded, 0.8m
2 Test Fixture	TATUNG	N/A	N/A	N/A
3 Memory Stick 512MB	Sandisk	TS512MMSD	167803-0276	N/A

Signal Cable Type	Signal cable Description
A USB Cable	Non-shielded, 1.8m
B Test Fixture Cable	Non-shielded, 0.2m

1.4. Configuration of Tested System



1.5. EUT Exercise Software

1. Setup the EUT as shown in Section 1.4.
2. Execute software “PUTTY v0.63.00” on the EUT.
3. Configure the test mode, the test channel, and the data rate.
4. Press “OK” to start the continuous Transmit.
5. Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Required (IEC 68-1)	Actual
Temperature (°C)	15-35	20-35
Humidity (%RH)	25-75	50-65
Barometric pressure (mbar)	860-1060	950-1000

The related certificate for our laboratories about the test site and management system can be downloaded from

Quietek Corporation's Web Site: <http://www.quietek.com/chinese/about/certificates.aspx?bval=5>

The address and introduction of Quietek Corporation's laboratories can be founded in our Web site:

<http://www.quietek.com/>

Site Description: File on
Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
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FCC Accreditation Number: TW1014

2. Conducted Emission

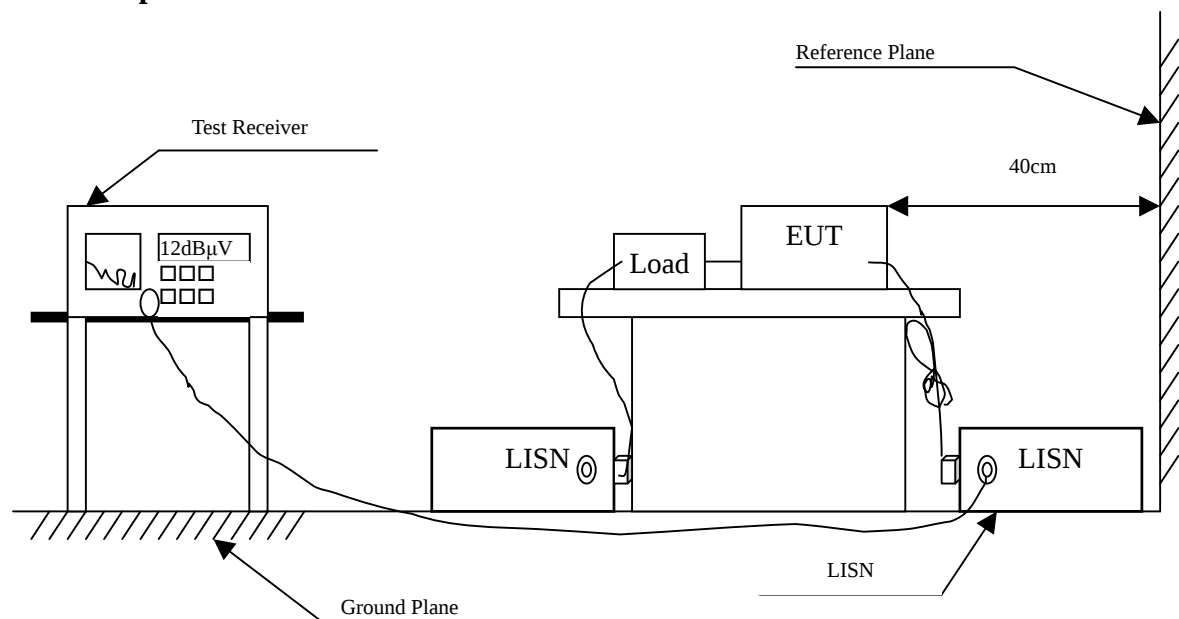
2.1. Test Equipment

	Equipment	Manufacturer	Model No. / Serial No.	Last Cal.	Remark
X	Test Receiver	R & S	ESCS 30 / 825442/018	Sep., 2015	
X	Artificial Mains Network	R & S	ENV4200 / 848411/10	Feb., 2016	Peripherals
X	LISN	R & S	ESH3-Z5 / 825562/002	Feb., 2016	EUT
	DC LISN	Schwarzbeck	8226 / 176	Mar., 2016	EUT
X	Pulse Limiter	R & S	ESH3-Z2 / 357.8810.52	Feb., 2016	
	No.1 Shielded Room				

Note:

1. All equipments are calibrated every one year.
2. The test instruments marked by "X" are used to measure the final test results.

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 (dBμV) Limit		
Frequency MHz	Limits	
	QP	AVG
0.15 - 0.50	66-56	56-46
0.50-5.0	56	46
5.0 - 30	60	50

2.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm /50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

2.5. Uncertainty

± 2.26 dB

2.6. Test Result of Conducted Emission

Product : Alcatel Wi-Fi camera
 Test Item : Conducted Emission Test
 Power Line : Line 1
 Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)
 (ADP: S005ANU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V	dB	dB μ V
Line 1					
Quasi-Peak					
0.158	9.781	28.500	38.282	-27.489	65.771
0.193	9.774	23.810	33.584	-31.187	64.771
0.423	9.782	20.160	29.942	-28.258	58.200
0.584	9.794	17.840	27.634	-28.366	56.000
1.158	9.849	20.250	30.099	-25.901	56.000
18.435	10.184	21.210	31.394	-28.606	60.000
Average					
0.158	9.781	12.200	21.982	-33.789	55.771
0.193	9.774	12.650	22.424	-32.347	54.771
0.423	9.782	6.490	16.272	-31.928	48.200
0.584	9.794	9.150	18.944	-27.056	46.000
1.158	9.849	10.480	20.329	-25.671	46.000
18.435	10.184	12.870	23.054	-26.946	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Alcatel Wi-Fi camera
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)
(ADP: S005ANU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V	dB	dB μ V
Line 2					
Quasi-Peak					
0.166	9.832	22.830	32.662	-32.881	65.543
0.431	9.853	29.250	39.103	-18.868	57.971
0.474	9.856	18.550	28.406	-28.337	56.743
1.095	9.904	12.030	21.934	-34.066	56.000
1.931	9.979	12.550	22.529	-33.471	56.000
17.248	10.337	12.320	22.657	-37.343	60.000
Average					
0.166	9.832	12.740	22.572	-32.971	55.543
0.431	9.853	27.480	37.333	-10.638	47.971
0.474	9.856	17.820	27.676	-19.067	46.743
1.095	9.904	8.840	18.744	-27.256	46.000
1.931	9.979	8.960	18.939	-27.061	46.000
17.248	10.337	4.980	15.317	-34.683	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Alcatel Wi-Fi camera
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)
(ADP: S006MU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V	dB	dB μ V
Line 1					
Quasi-Peak					
0.150	9.784	36.130	45.914	-20.086	66.000
0.201	9.775	32.490	42.265	-22.278	64.543
0.400	9.780	34.050	43.830	-15.027	58.857
0.634	9.798	25.900	35.698	-20.302	56.000
9.724	10.088	23.210	33.298	-26.702	60.000
24.037	10.198	23.460	33.658	-26.342	60.000
Average					
0.150	9.784	19.700	29.484	-26.516	56.000
0.201	9.775	23.320	33.095	-21.448	54.543
0.400	9.780	31.580	41.360	-7.497	48.857
0.634	9.798	8.540	18.338	-27.662	46.000
9.724	10.088	18.410	28.498	-21.502	50.000
24.037	10.198	-0.160	10.038	-39.962	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Alcatel Wi-Fi camera
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)
(ADP: S006MU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V	dB	dB μ V
Line 2					
Quasi-Peak					
0.150	9.831	36.150	45.981	-20.019	66.000
0.170	9.832	33.960	43.792	-21.637	65.429
0.197	9.835	31.830	41.665	-22.992	64.657
0.396	9.850	28.540	38.390	-20.581	58.971
15.099	10.296	25.360	35.656	-24.344	60.000
24.068	10.399	22.540	32.939	-27.061	60.000
Average					
0.150	9.831	18.300	28.131	-27.869	56.000
0.170	9.832	23.320	33.152	-22.277	55.429
0.197	9.835	17.850	27.685	-26.972	54.657
0.396	9.850	19.680	29.530	-19.441	48.971
15.099	10.296	17.880	28.176	-21.824	50.000
24.068	10.399	-0.800	9.599	-40.401	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Alcatel Wi-Fi camera
Test Item : Conducted Emission Test
Power Line : Line 1
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)
(ADP: S008ACM0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V	dB	dB μ V
Line 1					
Quasi-Peak					
0.357	9.777	34.440	44.217	-15.869	60.086
0.431	9.783	21.710	31.493	-26.478	57.971
0.681	9.802	23.950	33.752	-22.248	56.000
1.084	9.843	20.760	30.603	-25.397	56.000
2.787	9.951	18.990	28.941	-27.059	56.000
17.150	10.176	16.690	26.866	-33.134	60.000
Average					
0.357	9.777	29.220	38.997	-11.089	50.086
0.431	9.783	12.380	22.163	-25.808	47.971
0.681	9.802	15.720	25.522	-20.478	46.000
1.084	9.843	13.360	23.203	-22.797	46.000
2.787	9.951	13.250	23.201	-22.799	46.000
17.150	10.176	9.670	19.846	-30.154	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Product : Alcatel Wi-Fi camera
Test Item : Conducted Emission Test
Power Line : Line 2
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437MHz)
(ADP: S008ACM0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V	dB	dB μ V
Line 2					
Quasi-Peak					
0.228	9.837	17.430	27.267	-36.504	63.771
0.357	9.847	29.840	39.687	-20.399	60.086
0.662	9.870	21.660	31.530	-24.470	56.000
1.353	9.924	15.680	25.604	-30.396	56.000
2.841	10.021	13.120	23.141	-32.859	56.000
16.673	10.321	12.250	22.571	-37.429	60.000
Average					
0.228	9.837	11.830	21.667	-32.104	53.771
0.357	9.847	20.440	30.287	-19.799	50.086
0.662	9.870	16.720	26.590	-19.410	46.000
1.353	9.924	12.130	22.054	-23.946	46.000
2.841	10.021	8.560	18.581	-27.419	46.000
16.673	10.321	7.680	18.001	-31.999	50.000

Note:

1. All Reading Levels are Quasi-Peak and average value.
2. “ ” means the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

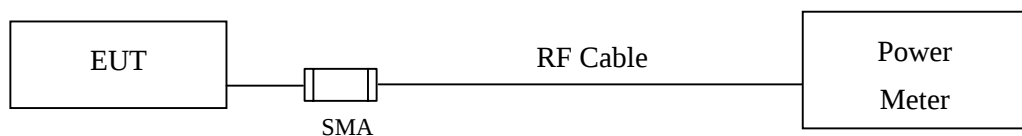
3.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
X	Power Meter	Anritsu	ML2495A/6K00003357	May, 2015
X	Power Sensor	Anritsu	MA2411B/0738448	Jun., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with "X" are used to measure the final test results.

3.2. Test Setup



3.3. Limits

The maximum peak power shall be less 1 Watt.

3.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements. The maximum peak conducted output power using KDB 558074 D01 DTS Meas Guidance v03r04 section 9.1.2 PKPM1 Peak power meter method.

3.5. Uncertainty

± 1.27 dB

3.6. Test Result of Peak Power Output

Product : Alcatel Wi-Fi camera
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)				Peak Power	Required Limit	Result
		1	2	5.5	11	1		
		Measurement Level (dBm)						
01	2412	17.15	--	--	--	19.32	<30dBm	Pass
06	2437	17.11	17.02	16.95	16.87	19.29	<30dBm	Pass
11	2462	16.89	--	--	--	19.08	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : Alcatel Wi-Fi camera
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 2: Transmit (802.11g 6Mbps)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		6	9	12	18	24	36	48	54	6		
		Measurement Level (dBm)										
01	2412	14.18	--	--	--	--	--	--	--	22.95	<30dBm	Pass
06	2437	14.21	14.14	14.07	13.94	13.86	13.75	13.64	13.58	22.79	<30dBm	Pass
11	2462	13.67	--	--	--	--	--	--	--	22.61	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : Alcatel Wi-Fi camera
 Test Item : Peak Power Output Data
 Test Site : No.3 OATS
 Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		7.2	14.4	21.7	28.9	43.3	57.8	65	72.2	7.2		
		Measurement Level (dBm)										
01	2412	13.17	--	--	--	--	--	--	--	22.14	<30dBm	Pass
06	2437	13.15	13.09	12.96	12.87	12.79	12.66	12.53	12.48	22.06	<30dBm	Pass
11	2462	13.06	--	--	--	--	--	--	--	22.03	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

Product : Alcatel Wi-Fi camera
Test Item : Peak Power Output Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

Channel No	Frequency (MHz)	Average Power For different Data Rate (Mbps)								Peak Power	Required Limit	Result
		15	30	45	60	90	120	135	150			
		Measurement Level (dBm)										
03	2422	12.34	--	--	--	--	--	--	--	21.17	<30dBm	Pass
06	2437	13.25	13.14	13.07	12.98	12.88	12.74	12.64	12.52	21.70	<30dBm	Pass
09	2452	12.41	--	--	--	--	--	--	--	21.23	<30dBm	Pass

Note: Peak Power Output Value = Reading value on power meter + cable loss

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the radiated emission test:

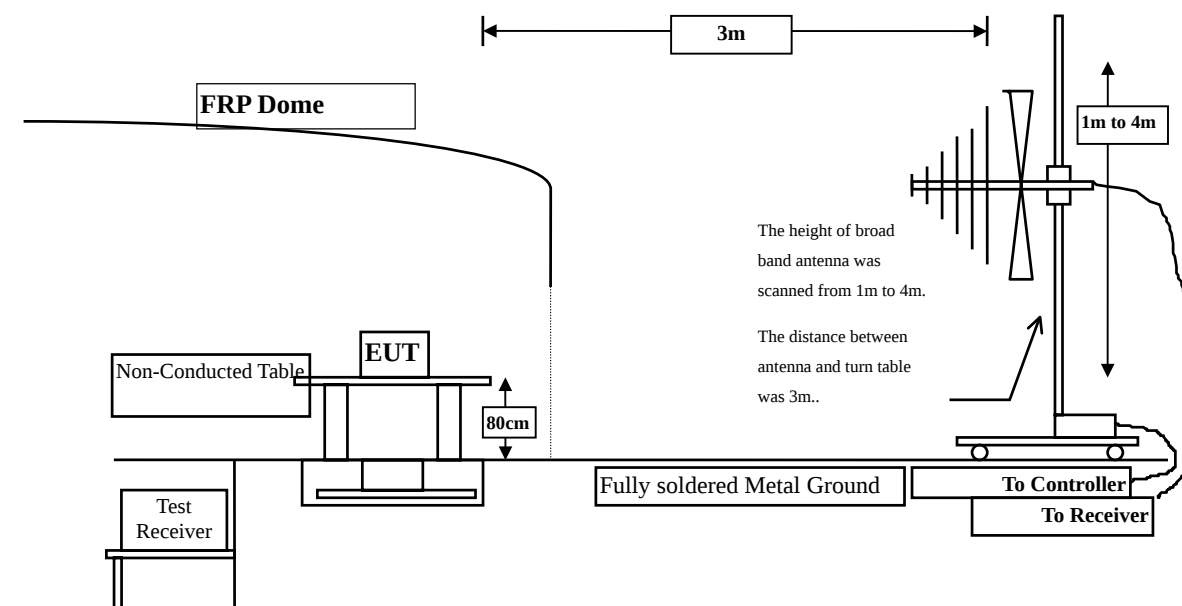
Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ Site # 3	X	Magnetic Loop Antenna	Teseq	HLA6121/ 37133	Sep., 2015
	X	Bilog Antenna	Schaffner Chase	CBL6112B/ 2707	Jun., 2015
	X	EMI Test Receiver	R&S	ESCS 30/838251/ 001	Jun., 2015
	X	Coaxial Cable	QTK(Arnist)	RG 214/ LC003-RG	Jun., 2015
	X	Coaxial signal switch	Arnist	MP59B/ 6200798682	Jun., 2015

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan., 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan., 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

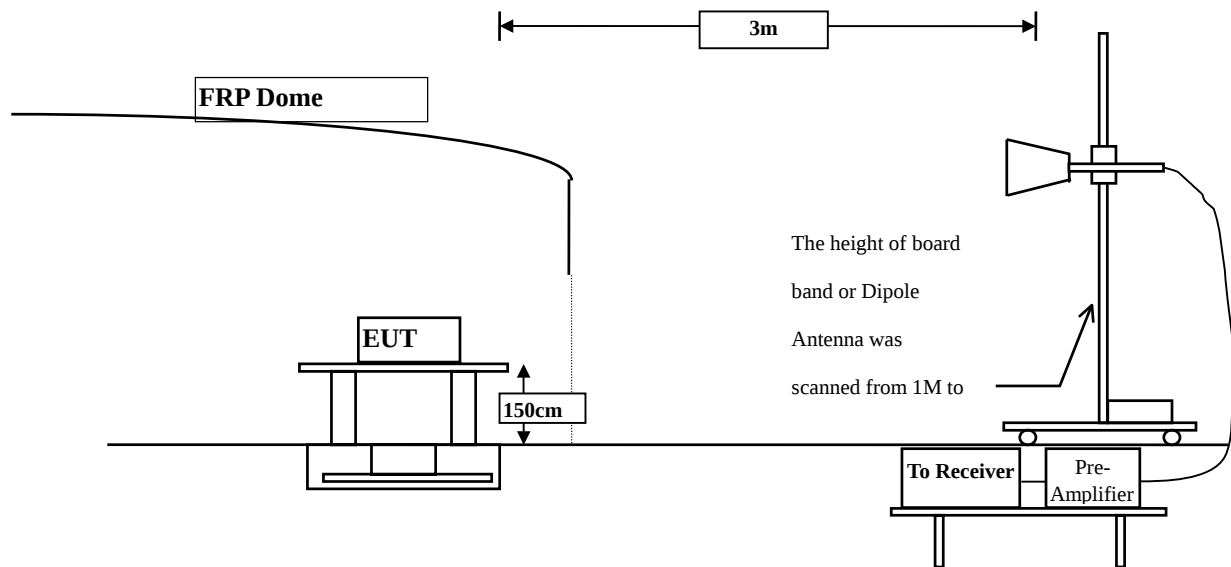
- Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

4.2. Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209(a) Limits		
Frequency MHz	Field strength (microvolts/meter)	Measurement distance (meter)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remarks: E field strength (dBμV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Measuring the frequency range below 1GHz, the EUT is placed on a turn table which is 0.8 meter above ground, when measuring the frequency range above 1GHz, the EUT is placed on a turn table which is 1.5 meter above ground.

The turn table is rotated 360 degrees to determine the position of the maximum emission level.

The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned between 1 meter and 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10: 2013 on radiated measurement.

The resolution bandwidth below 30MHz setting on the field strength meter is 9kHz and 30MHz~1GHz is 120kHz and above 1GHz is 1MHz.

Radiated emission measurements below 30MHz are made using Loop Antenna and 30MHz~1GHz are made using broadband Bilog antenna and above 1GHz are made using Horn Antennas.

The measurement is divided into the Preliminary Measurement and the Final Measurement.

The suspected frequencies are searched for in Preliminary Measurement with the measurement antenna kept pointed at the source of the emission both in azimuth and elevation, with the polarization of the antenna oriented for maximum response. The antenna is pointed at an angle towards the source of the emission, and the EUT is rotated in both height and polarization to maximize the measured emission. The emission is kept within the illumination area of the 3 dB bandwidth of the antenna.

The worst radiated emission is measured in the Open Area Test Site on the Final Measurement.

The measurement frequency range from 9kHz - 10th Harmonic of fundamental was investigated.

4.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

4.6. Test Result of Radiated Emission

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

4824.000	3.261	39.660	42.921	-31.079	74.000
7236.000	10.650	31.830	42.480	-31.520	74.000
9648.000	13.337	31.800	45.136	-28.864	74.000

Average Detector:

--

Vertical

Peak Detector:

4824.000	6.421	42.270	48.691	-25.309	74.000
7236.000	11.495	32.220	43.715	-30.285	74.000
9648.000	13.807	32.580	46.386	-27.614	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
4874.000	3.038	45.420	48.457	-25.543	74.000
7311.000	11.795	31.960	43.754	-30.246	74.000
9748.000	12.635	31.760	44.395	-29.605	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	44.080	49.891	-24.109	74.000
7311.000	12.630	32.870	45.499	-28.501	74.000
9748.000	13.126	31.610	44.736	-29.264	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462 MHz)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
Peak Detector:					
4924.000	2.858	36.760	39.617	-34.383	74.000
7386.000	12.127	33.250	45.378	-28.622	74.000
9848.000	12.852	33.130	45.983	-28.017	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	42.460	47.980	-26.020	74.000
7386.000	13.254	33.190	46.444	-27.556	74.000
9848.000	13.367	32.670	46.037	-27.963	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

4824.000	3.261	36.350	39.611	-34.389	74.000
7236.000	10.650	31.230	41.880	-32.120	74.000
9648.000	13.337	31.850	45.186	-28.814	74.000

Average Detector:

--

Vertical

Peak Detector:

4824.000	6.421	34.660	41.081	-32.919	74.000
7236.000	11.495	31.580	43.075	-30.925	74.000
9648.000	13.807	32.430	46.236	-27.764	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
4874.000	3.038	41.410	44.447	-29.553	74.000
7311.000	11.795	32.180	43.974	-30.026	74.000
9748.000	12.635	31.890	44.525	-29.475	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4874.000	5.812	38.300	44.111	-29.889	74.000
7311.000	12.630	31.500	44.129	-29.871	74.000
9748.000	13.126	31.570	44.696	-29.304	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
	Factor	Level	Level		
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
4924.000	2.858	40.320	43.177	-30.823	74.000
7386.000	12.127	32.370	44.498	-29.502	74.000
9848.000	12.852	30.480	43.333	-30.667	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4924.000	5.521	41.380	46.900	-27.100	74.000
7386.000	13.254	33.270	46.524	-27.476	74.000
9848.000	13.367	32.880	46.247	-27.753	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)(2412MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

4824.000	3.261	36.570	39.831	-34.169	74.000
7236.000	10.650	32.410	43.060	-30.940	74.000
9648.000	13.337	33.370	46.706	-27.294	74.000

Average Detector:

--

Vertical

Peak Detector:

4824.000	6.421	36.930	43.351	-30.649	74.000
7236.000	11.495	32.550	44.045	-29.955	74.000
9648.000	13.807	33.300	47.106	-26.894	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2437 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dBμV	dBμV/m	dB	dBμV/m

Horizontal

Peak Detector:

4874.000	3.038	36.810	39.847	-34.153	74.000
7311.000	11.795	31.790	43.584	-30.416	74.000
9748.000	12.635	34.520	47.155	-26.845	74.000

Average Detector:

--

Vertical

Peak Detector:

4874.000	5.812	36.770	42.581	-31.419	74.000
7311.000	12.630	33.460	46.089	-27.911	74.000
9748.000	13.126	33.190	46.316	-27.684	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

4924.000	2.858	36.730	39.587	-34.413	74.000
7386.000	12.127	34.510	46.638	-27.362	74.000
9848.000	12.852	34.410	47.263	-26.737	74.000

Average Detector:

--

Vertical

Peak Detector:

4924.000	5.521	35.970	41.490	-32.510	74.000
7386.000	13.254	34.110	47.364	-26.636	74.000
9848.000	13.367	35.110	48.477	-25.523	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2422MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

4844.000	3.171	36.180	39.351	-34.649	74.000
7266.000	11.162	33.090	44.252	-29.748	74.000
9688.000	12.964	34.260	47.225	-26.775	74.000

Average Detector:

--

Vertical

Peak Detector:

4844.000	6.178	36.110	42.288	-31.712	74.000
7266.000	11.982	32.940	44.922	-29.078	74.000
9688.000	13.507	33.140	46.648	-27.352	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2437 MHz)

Frequency	Correct Factor	Reading Level	Measurement Level	Margin	Limit
MHz	dB	dB μ V	dB μ V/m	dB	dB μ V/m

Horizontal

Peak Detector:

4874.000	3.038	35.260	38.297	-35.703	74.000
7311.000	11.795	33.090	44.884	-29.116	74.000
9748.000	12.635	33.470	46.105	-27.895	74.000

Average Detector:

--

Vertical

Peak Detector:

4874.000	5.812	36.830	42.641	-31.359	74.000
7311.000	12.630	34.090	46.719	-27.281	74.000
9748.000	13.126	33.140	46.266	-27.734	74.000

Average Detector:

--

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : Harmonic Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2452 MHz)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
Peak Detector:					
4904.000	2.914	35.680	38.595	-35.405	74.000
7356.000	11.995	33.470	45.464	-28.536	74.000
9808.000	12.475	33.540	46.015	-27.985	74.000
Average Detector:					
--					
Vertical					
Peak Detector:					
4904.000	5.530	36.130	41.661	-32.339	74.000
7356.000	13.005	33.830	46.834	-27.166	74.000
9808.000	12.901	32.970	45.871	-28.129	74.000
Average Detector:					
--					

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps)(2437 MHz) (ADP: S005ANU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
95.960	-7.820	49.199	41.379	-2.121	43.500
373.380	-1.163	43.079	41.916	-4.084	46.000
549.920	2.943	39.230	42.173	-3.827	46.000
672.140	2.291	41.524	43.815	-2.185	46.000
815.700	5.271	35.631	40.902	-5.098	46.000
972.840	6.802	37.687	44.489	-9.511	54.000
Vertical					
95.960	-2.790	41.978	39.188	-4.312	43.500
373.380	-2.373	36.805	34.432	-11.568	46.000
505.300	-0.772	37.791	37.019	-8.981	46.000
709.000	0.058	42.843	42.901	-3.099	46.000
829.280	2.864	38.495	41.359	-4.641	46.000
949.560	6.615	34.220	40.835	-5.165	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps)(2437 MHz) (ADP: S005ANU0500100)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
95.960	-7.820	46.820	39.000	-4.500	43.500
373.380	-1.163	42.603	41.440	-4.560	46.000
462.620	1.172	39.824	40.996	-5.004	46.000
594.540	3.927	38.453	42.380	-3.620	46.000
720.640	3.511	37.728	41.239	-4.761	46.000
949.560	6.695	35.675	42.370	-3.630	46.000
Vertical					
95.960	-2.790	40.809	38.019	-5.481	43.500
373.380	-2.373	36.688	34.315	-11.685	46.000
505.300	-0.772	38.500	37.728	-8.272	46.000
683.780	1.968	40.725	42.693	-3.307	46.000
829.280	2.864	38.255	41.119	-4.881	46.000
972.840	4.582	36.176	40.758	-13.242	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)(2437 MHz)
(ADP: S005ANU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
95.960	-7.820	47.021	39.201	-4.299	43.500
373.380	-1.163	42.711	41.548	-4.452	46.000
516.940	1.654	39.669	41.323	-4.677	46.000
660.500	2.097	40.507	42.604	-3.396	46.000
780.780	4.230	37.608	41.838	-4.162	46.000
972.840	6.802	36.966	43.768	-10.232	54.000
Vertical					
95.960	-2.790	41.280	38.490	-5.010	43.500
373.380	-2.373	36.533	34.160	-11.840	46.000
505.300	-0.772	38.933	38.161	-7.839	46.000
732.280	-0.248	41.908	41.660	-4.340	46.000
852.560	0.452	38.157	38.609	-7.391	46.000
972.840	4.582	36.012	40.594	-13.406	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2437 MHz)
(ADP: S005ANU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
95.960	-7.820	48.482	40.662	-2.838	43.500
373.380	-1.163	42.835	41.672	-4.328	46.000
516.940	1.654	40.712	42.366	-3.634	46.000
672.140	2.291	41.338	43.629	-2.371	46.000
780.780	4.230	37.512	41.742	-4.258	46.000
949.560	6.695	35.666	42.361	-3.639	46.000
Vertical					
95.960	-2.790	41.235	38.445	-5.055	43.500
373.380	-2.373	36.503	34.130	-11.870	46.000
505.300	-0.772	38.306	37.534	-8.466	46.000
732.280	-0.248	43.297	43.049	-2.951	46.000
877.780	1.979	34.956	36.935	-9.065	46.000
972.840	4.582	36.286	40.868	-13.132	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps)(2437 MHz) (ADP: S006MU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
119.240	-9.621	47.679	38.058	-5.442	43.500
299.660	-3.585	43.185	39.600	-6.400	46.000
468.440	1.195	38.784	39.979	-6.021	46.000
565.440	1.611	40.523	42.134	-3.866	46.000
771.080	4.215	39.291	43.506	-2.494	46.000
926.280	6.491	34.459	40.950	-5.050	46.000
Vertical					
95.960	-2.790	41.563	38.773	-4.727	43.500
373.380	-2.373	34.193	31.820	-14.180	46.000
540.220	0.121	38.260	38.381	-7.619	46.000
689.600	2.538	39.283	41.821	-4.179	46.000
804.060	3.587	39.075	42.662	-3.338	46.000
972.840	4.582	37.398	41.980	-12.020	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps)(2437 MHz) (ADP: S006MU0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
119.240	-9.621	47.187	37.566	-5.934	43.500
299.660	-3.585	44.384	40.799	-5.201	46.000
491.720	-0.523	39.775	39.251	-6.749	46.000
635.280	2.141	38.877	41.017	-4.983	46.000
771.080	4.215	37.198	41.413	-4.587	46.000
972.840	6.802	40.094	46.896	-7.104	54.000
Vertical					
95.960	-2.790	40.267	37.477	-6.023	43.500
336.520	-4.630	37.757	33.127	-12.873	46.000
468.440	-4.725	38.956	34.231	-11.769	46.000
540.220	0.121	37.929	38.050	-7.950	46.000
683.780	1.968	36.917	38.885	-7.115	46.000
804.060	3.587	35.747	39.334	-6.666	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)(2437 MHz)
(ADP: S006MU0500100)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
119.240	-9.621	48.353	38.732	-4.768	43.500
322.940	-4.442	42.801	38.359	-7.641	46.000
505.300	0.308	33.929	34.237	-11.763	46.000
672.140	2.291	35.298	37.589	-8.411	46.000
734.220	2.699	35.993	38.692	-7.308	46.000
903.000	5.646	33.130	38.776	-7.224	46.000
Vertical					
95.960	-2.790	40.090	37.300	-6.200	43.500
191.020	-10.420	41.575	31.155	-12.345	43.500
336.520	-4.630	37.735	33.105	-12.895	46.000
540.220	0.121	38.210	38.331	-7.669	46.000
683.780	1.968	37.089	39.057	-6.943	46.000
804.060	3.587	37.123	40.710	-5.290	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2437 MHz)
(ADP: S006MU0500100)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
119.240	-9.621	46.018	36.397	-7.103	43.500
299.660	-3.585	39.585	36.000	-10.000	46.000
394.720	-2.304	42.288	39.984	-6.016	46.000
563.500	1.555	40.140	41.695	-4.305	46.000
732.280	3.082	37.488	40.570	-5.430	46.000
949.560	6.695	35.642	42.337	-3.663	46.000
Vertical					
95.960	-2.790	39.716	36.926	-6.574	43.500
167.740	-8.239	46.605	38.366	-5.134	43.500
336.520	-4.630	37.273	32.643	-13.357	46.000
491.720	-2.833	41.288	38.454	-7.546	46.000
660.500	-2.233	40.784	38.551	-7.449	46.000
804.060	3.587	35.791	39.378	-6.622	46.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps)(2437 MHz) (ADP: S008ACM0500100)

Frequency	Correct	Reading	Measurement	Margin	Limit
MHz	Factor	Level	Level		
	dB	dB μ V	dB μ V/m	dB	dB μ V/m
Horizontal					
95.960	-7.820	46.480	38.660	-4.840	43.500
373.380	-1.163	39.544	38.381	-7.619	46.000
516.940	1.654	40.898	42.552	-3.448	46.000
672.140	2.291	36.616	38.907	-7.093	46.000
780.780	4.230	39.023	43.253	-2.747	46.000
972.840	6.802	38.091	44.893	-9.107	54.000
Vertical					
95.960	-2.790	43.214	40.424	-3.076	43.500
359.800	-3.810	36.871	33.061	-12.939	46.000
540.220	0.121	37.987	38.108	-7.892	46.000
612.000	-1.631	38.906	37.275	-8.725	46.000
780.780	3.060	37.585	40.645	-5.355	46.000
972.840	4.582	36.565	41.147	-12.853	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps)(2437 MHz) (ADP: S008ACM0500100)

Frequency MHz	Correct Factor dB	Reading Level dBμV	Measurement Level dBμV/m	Margin dB	Limit dBμV/m
Horizontal					
95.960	-7.820	46.203	38.383	-5.117	43.500
373.380	-1.163	39.177	38.014	-7.986	46.000
516.940	1.654	40.226	41.880	-4.120	46.000
726.460	3.469	38.650	42.119	-3.881	46.000
877.780	5.679	37.352	43.031	-2.969	46.000
972.840	6.802	39.683	46.485	-7.515	54.000
Vertical					
95.960	-2.790	43.518	40.728	-2.772	43.500
357.860	-3.734	36.428	32.694	-13.306	46.000
540.220	0.121	37.857	37.978	-8.022	46.000
660.500	-2.233	41.096	38.863	-7.137	46.000
804.060	3.587	38.168	41.755	-4.245	46.000
972.840	4.582	36.160	40.742	-13.258	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)(2437 MHz)
(ADP: S008ACM0500100)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
95.960	-7.820	46.275	38.455	-5.045	43.500
373.380	-1.163	39.099	37.936	-8.064	46.000
540.220	2.551	40.326	42.877	-3.123	46.000
780.780	4.230	38.840	43.070	-2.930	46.000
901.060	5.591	36.170	41.761	-4.239	46.000
972.840	6.802	39.900	46.702	-7.298	54.000
Vertical					
95.960	-2.790	43.582	40.792	-2.708	43.500
355.920	-3.488	34.726	31.238	-14.762	46.000
540.220	0.121	37.724	37.845	-8.155	46.000
683.780	1.968	36.273	38.241	-7.759	46.000
804.060	3.587	37.716	41.303	-4.697	46.000
972.840	4.582	36.052	40.634	-13.366	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

Product : Alcatel Wi-Fi camera
Test Item : General Radiated Emission Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)(2437 MHz)
(ADP: S008ACM0500100)

Frequency MHz	Correct Factor dB	Reading Level dB μ V	Measurement Level dB μ V/m	Margin dB	Limit dB μ V/m
Horizontal					
95.960	-7.820	46.543	38.723	-4.777	43.500
373.380	-1.163	39.211	38.048	-7.952	46.000
516.940	1.654	40.097	41.751	-4.249	46.000
648.860	2.038	37.681	39.719	-6.281	46.000
858.380	5.972	34.278	40.250	-5.750	46.000
972.840	6.802	39.606	46.408	-7.592	54.000
Vertical					
95.960	-2.790	43.912	41.122	-2.378	43.500
357.860	-3.734	36.967	33.233	-12.767	46.000
540.220	0.121	38.898	39.019	-6.981	46.000
683.780	1.968	38.208	40.176	-5.824	46.000
804.060	3.587	38.737	42.324	-3.676	46.000
972.840	4.582	38.328	42.910	-11.090	54.000

Note:

1. All Readings below 1GHz are Quasi-Peak, above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. Measurement Level = Reading Level + Correct Factor.
5. Correct Factor = Antenna factor + Cable loss – Amplifier gain.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The emission levels of other frequencies are very lower than the limit and not show in test report.
8. No emission found between lowest internal used/generated frequency to 30MHz.

5. RF antenna conducted test

5.1. Test Equipment

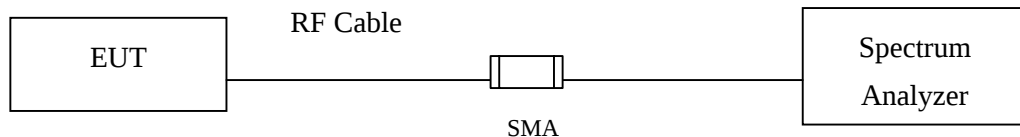
	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note: 1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.

2. The test instruments marked with "X" are used to measure the final test results.

5.2. Test Setup

RF antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Set VBW > RBW, scan up through 10th harmonic.

5.5. Uncertainty

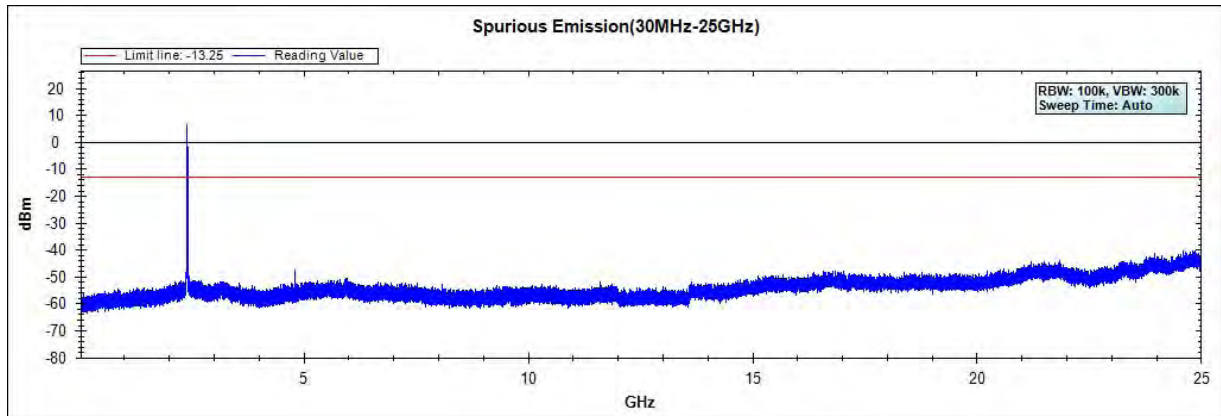
The measurement uncertainty

Conducted is defined as $\pm 1.27\text{dB}$

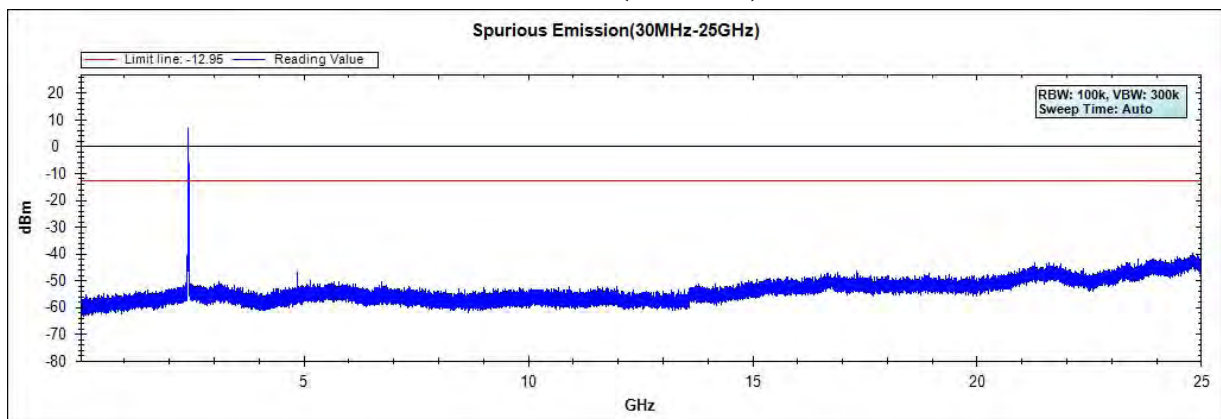
5.6. Test Result of RF antenna conducted test

Product : Alcatel Wi-Fi camera
Test Item : RF antenna conducted test
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps)

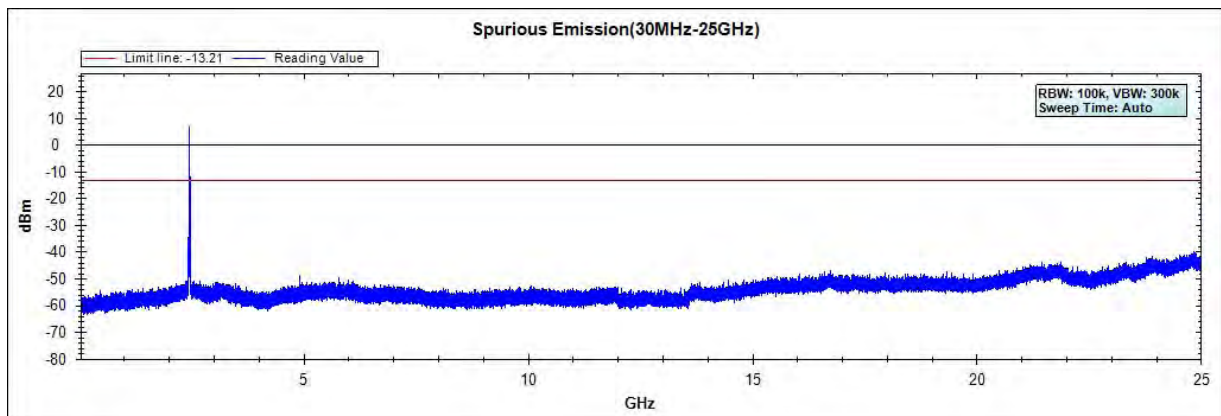
Channel 01 (2412MHz)



Channel 06 (2437MHz)



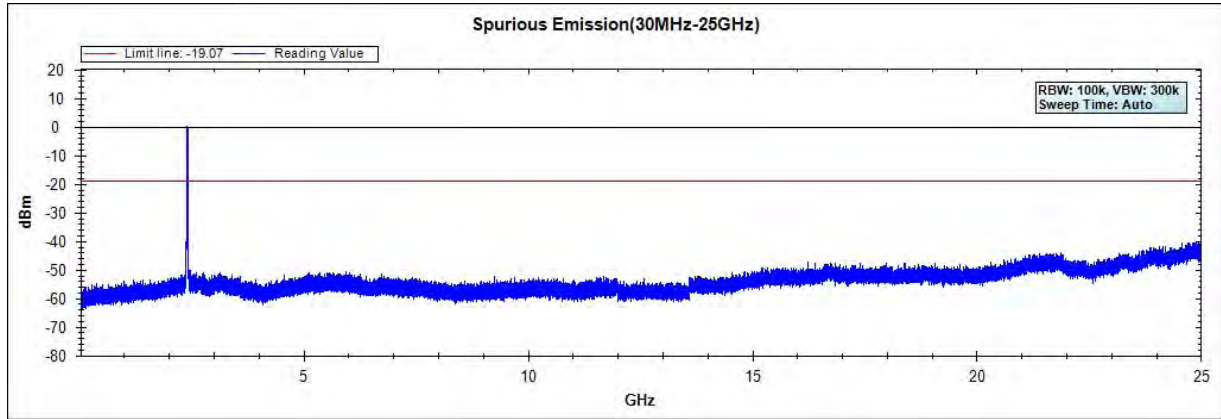
Channel 11 (2462MHz)



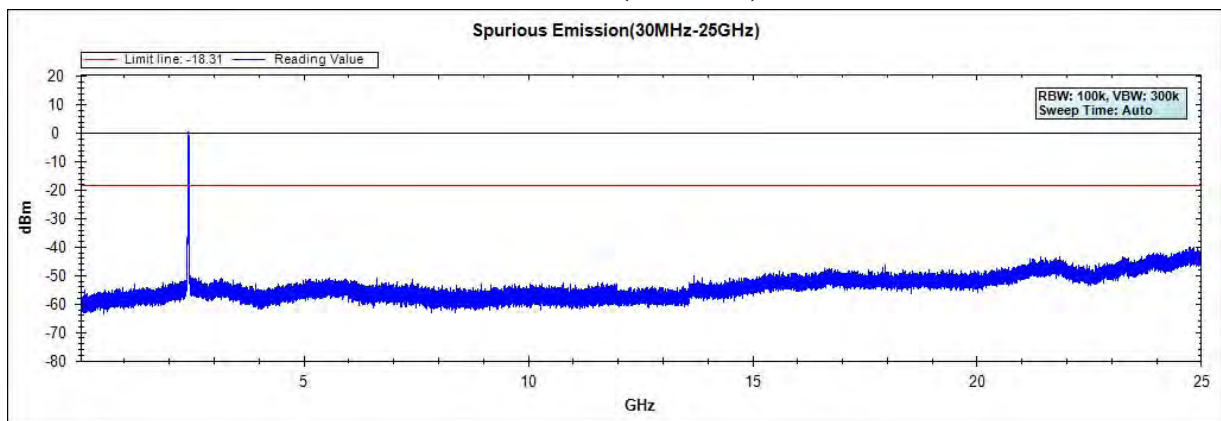
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Alcatel Wi-Fi camera
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps)

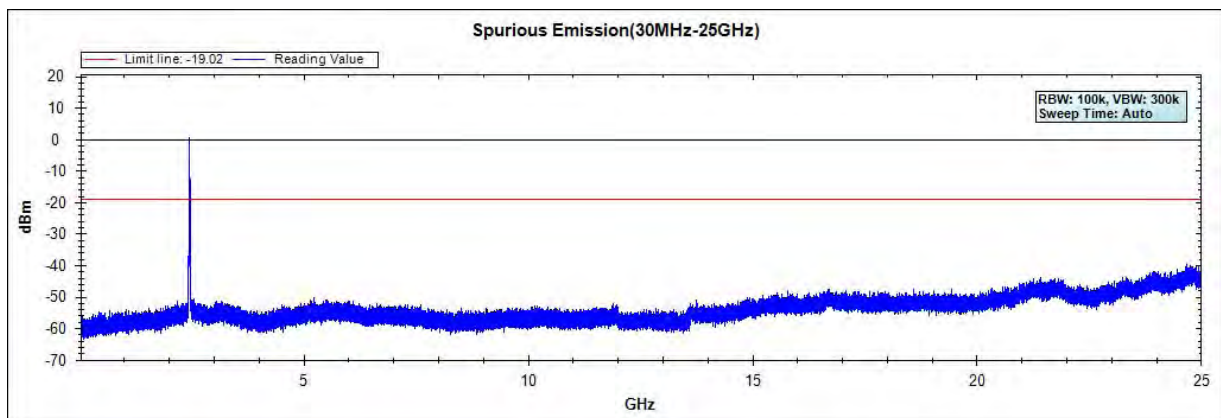
Channel 01 (2412MHz)



Channel 06 (2437MHz)



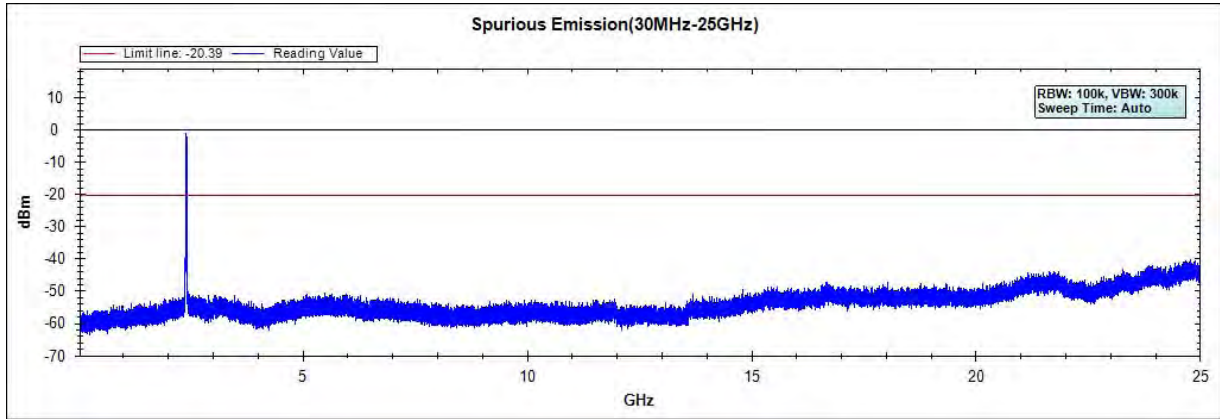
Channel 11 (2462MHz)



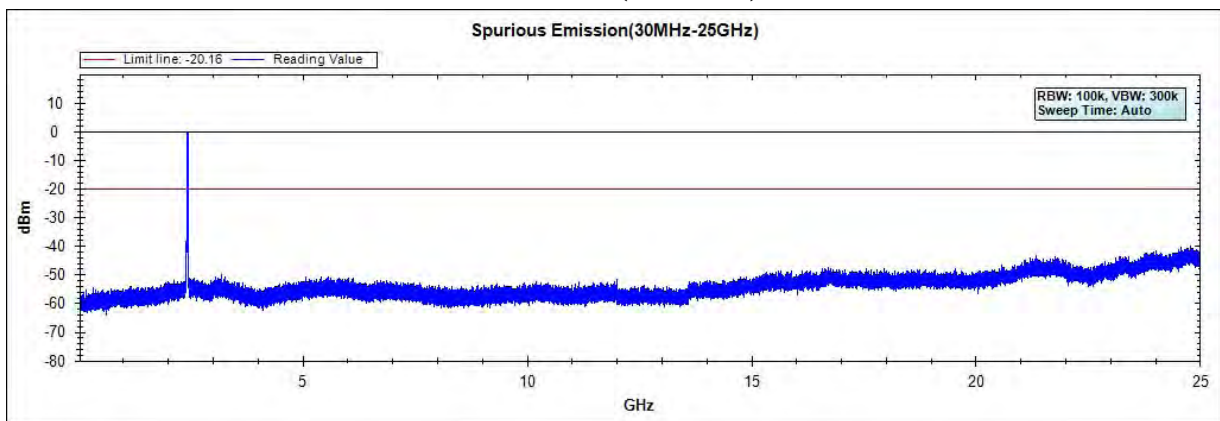
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Alcatel Wi-Fi camera
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

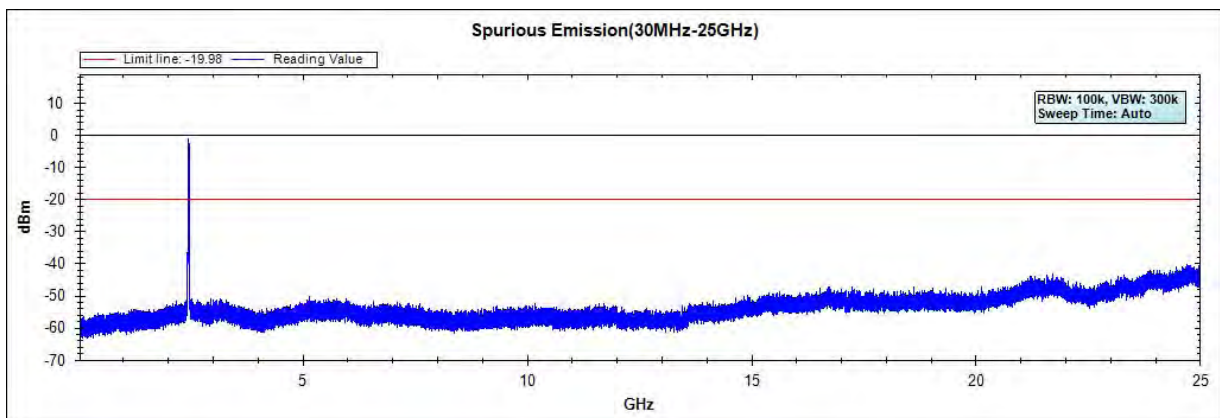
Channel 01 (2412MHz)



Channel 06 (2437MHz)



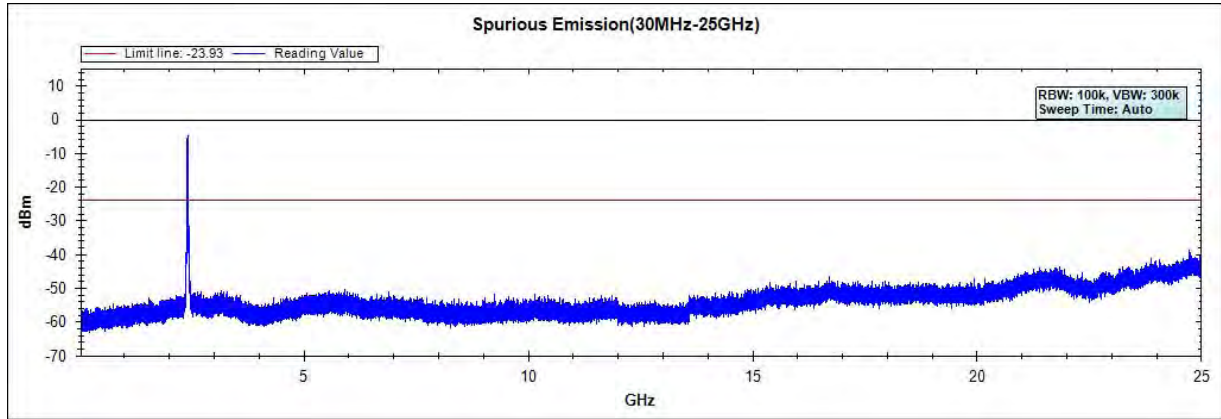
Channel 11 (2462MHz)



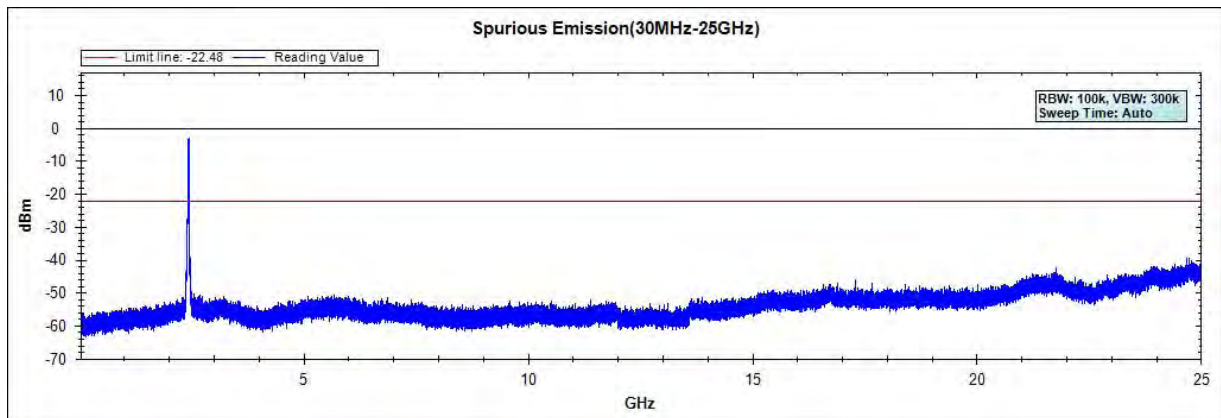
Note: The above test pattern is synthesized by multiple of the frequency range.

Product : Alcatel Wi-Fi camera
Test Item : RF Antenna Conducted Spurious
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

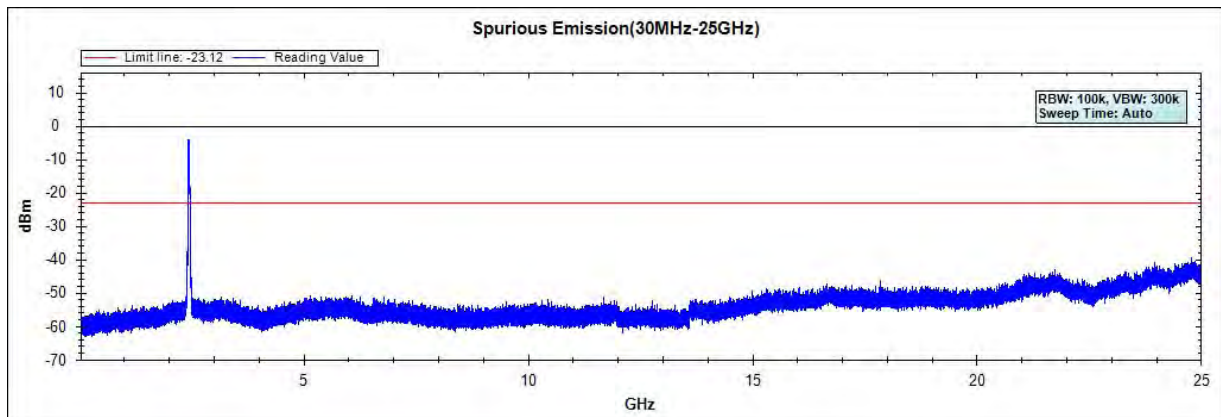
Channel 01 (2422MHz)



Channel 04 (2437MHz)



Channel 07 (2452MHz)



Note: The above test pattern is synthesized by multiple of the frequency range.

6. Band Edge

6.1. Test Equipment

RF Radiated Measurement:

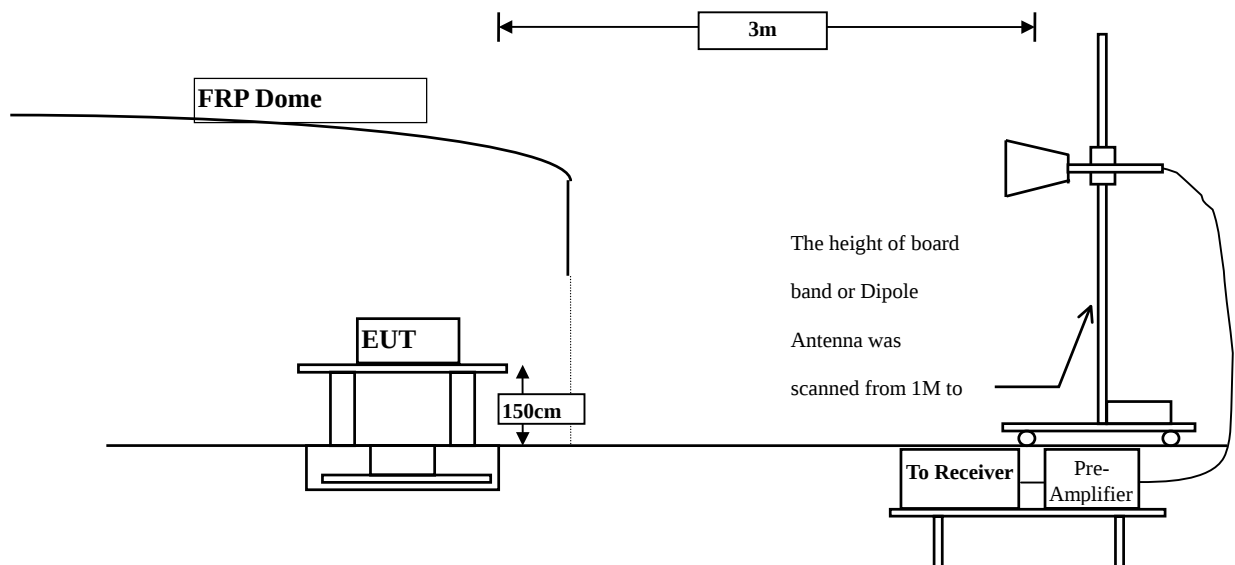
The following test equipments are used during the band edge tests:

Test Site		Equipment	Manufacturer	Model No./Serial No.	Last Cal.
☒ CB # 8	X	Spectrum Analyzer	R&S	FSP40/ 100339	Oct., 2015
	X	Horn Antenna	ETS-Lindgren	3117/ 35205	Mar., 2016
	X	Horn Antenna	Schwarzbeck	BBHA9170/209	Jan., 2016
	X	Horn Antenna	TRC	AH-0801/95051	Aug., 2015
	X	Pre-Amplifier	EMCI	EMC012630SE/980210	Jan., 2016
	X	Pre-Amplifier	MITEQ	JS41-001040000-58-5P/153945	Jul., 2015
	X	Pre-Amplifier	NARDA	DBL-1840N506/013	Jul., 2015

- Note:
1. All instruments are calibrated every one year.
 2. The test instruments marked by "X" are used to measure the final test results.

6.2. Test Setup

RF Radiated Measurement:



6.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

6.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.

6.5. Uncertainty

± 3.9 dB above 1GHz

± 3.8 dB below 1GHz

6.6. Test Result of Band Edge

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
01 (Peak)	2385.652	31.492	30.114	61.606	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	29.001	60.510	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	43.886	75.447	--	--	--
01 (Peak)	2412.174	31.640	77.712	109.351	--	--	--
01 (Average)	2385.797	31.493	17.905	49.398	74.00	54.00	Pass
01 (Average)	2390.000	31.509	15.753	47.262	74.00	54.00	Pass
01 (Average)	2398.696	31.554	39.951	71.504	--	--	--
01 (Average)	2400.000	31.561	39.106	70.667	--	--	--
01 (Average)	2412.754	31.644	74.739	106.383	--	--	--

Figure Channel 01:

Horizontal (Peak)

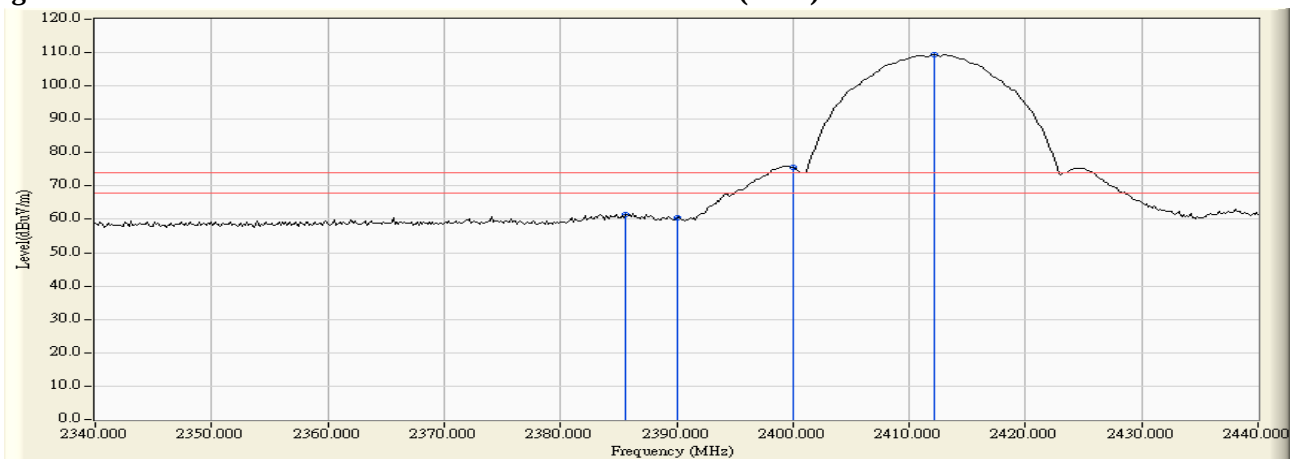
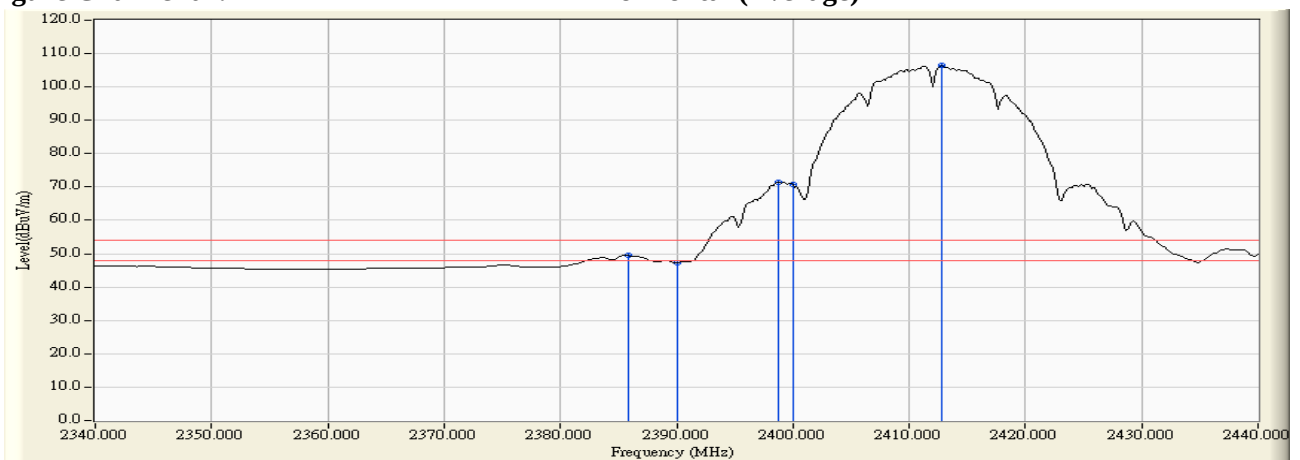


Figure Channel 01:

Horizontal (Average)



-
- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
 Test Item : Band Edge Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2412MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
01 (Peak)	2385.942	30.934	29.031	59.965	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	26.890	57.805	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	38.096	69.008	--	--	--
01 (Peak)	2413.043	30.957	73.097	104.053	--	--	--
01 (Average)	2390.000	30.915	14.297	45.212	74.00	54.00	Pass
01 (Average)	2400.000	30.912	32.455	63.367	--	--	--
01 (Average)	2412.754	30.955	70.143	101.097	--	--	--

Figure Channel 01: VERTICAL (Peak)

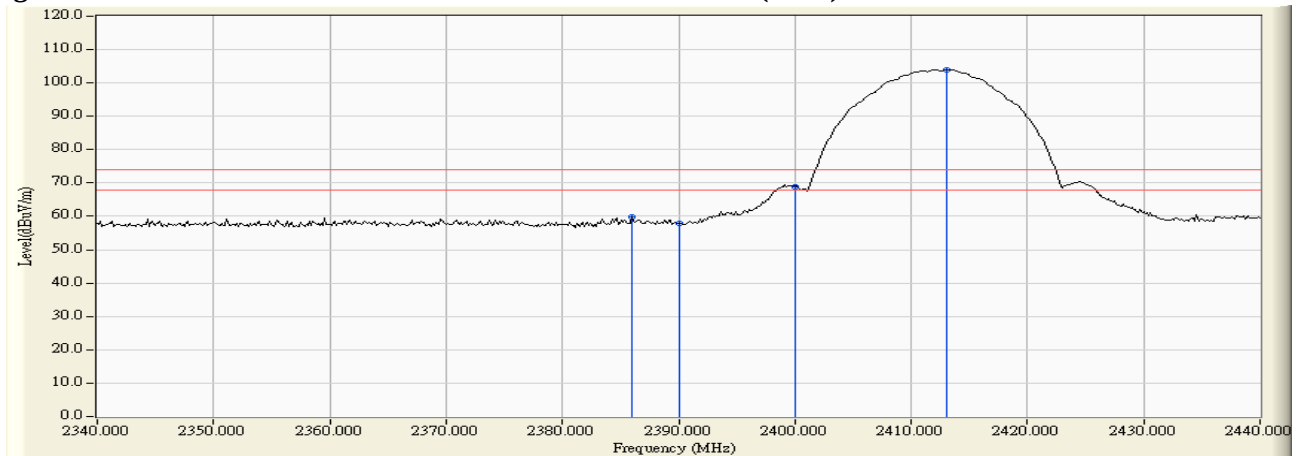
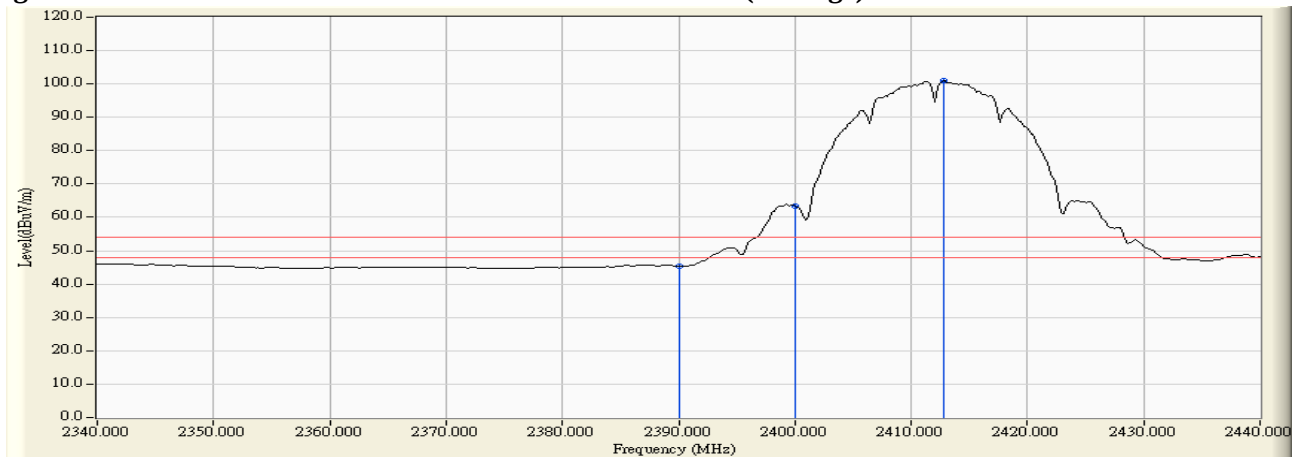


Figure Channel 01: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
 2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
 3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
 4. “ * ”, means this data is the worst emission level.
 5. Measurement Level = Reading Level + Correct Factor.
 6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
11 (Peak)	2461.906	32.018	76.102	108.121	--	--	--
11 (Peak)	2483.500	32.182	28.582	60.764	74.00	54.00	Pass
11 (Peak)	2487.413	32.211	30.409	62.621	74.00	54.00	Pass
11 (Average)	2461.181	32.014	73.089	105.102	--	--	--
11 (Average)	2483.500	32.182	16.617	48.799	74.00	54.00	Pass
11 (Average)	2487.558	32.212	19.710	51.923	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

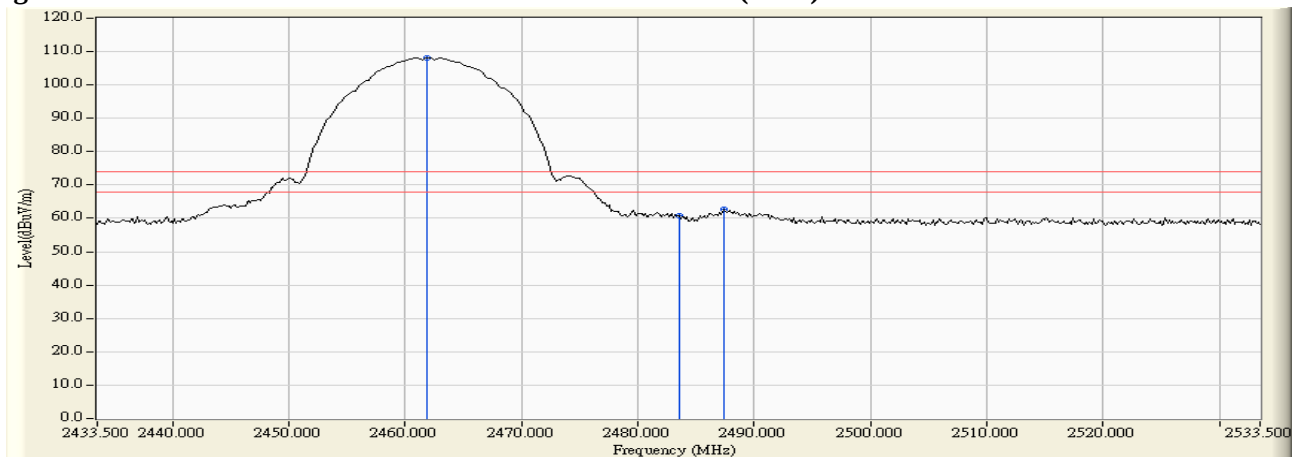
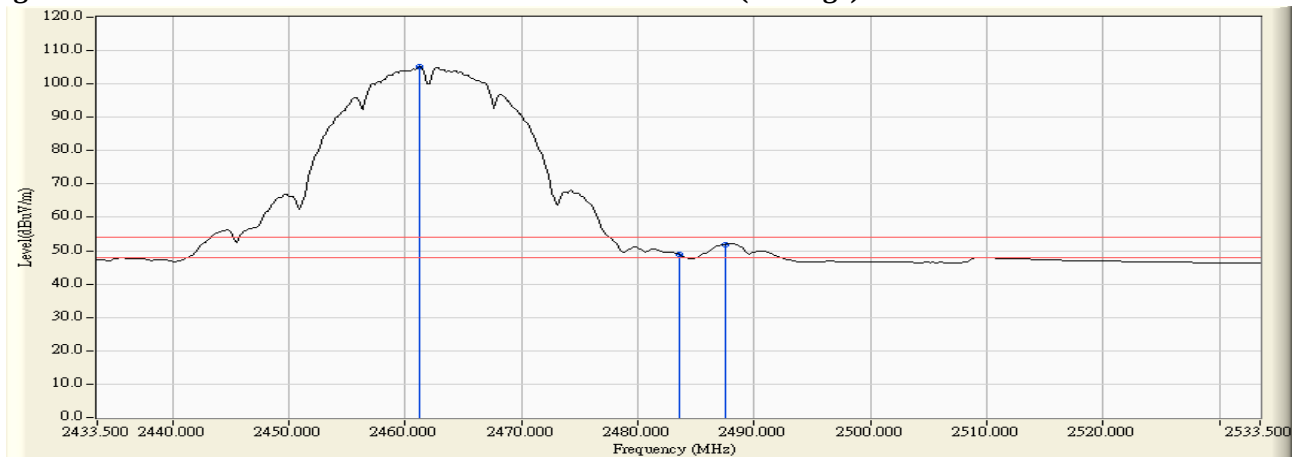


Figure Channel 11: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps) (2462MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
11 (Peak)	2461.906	31.289	74.122	105.412	--	--	--
11 (Peak)	2483.500	31.435	28.965	60.400	74.00	54.00	Pass
11 (Peak)	2488.428	31.468	30.389	61.858	74.00	54.00	Pass
11 (Average)	2461.181	31.285	71.109	102.394	--	--	--
11 (Average)	2483.500	31.435	16.010	47.445	74.00	54.00	Pass
11 (Average)	2487.993	31.466	19.487	50.953	74.00	54.00	Pass

Figure Channel 11: VERTICAL (Peak)

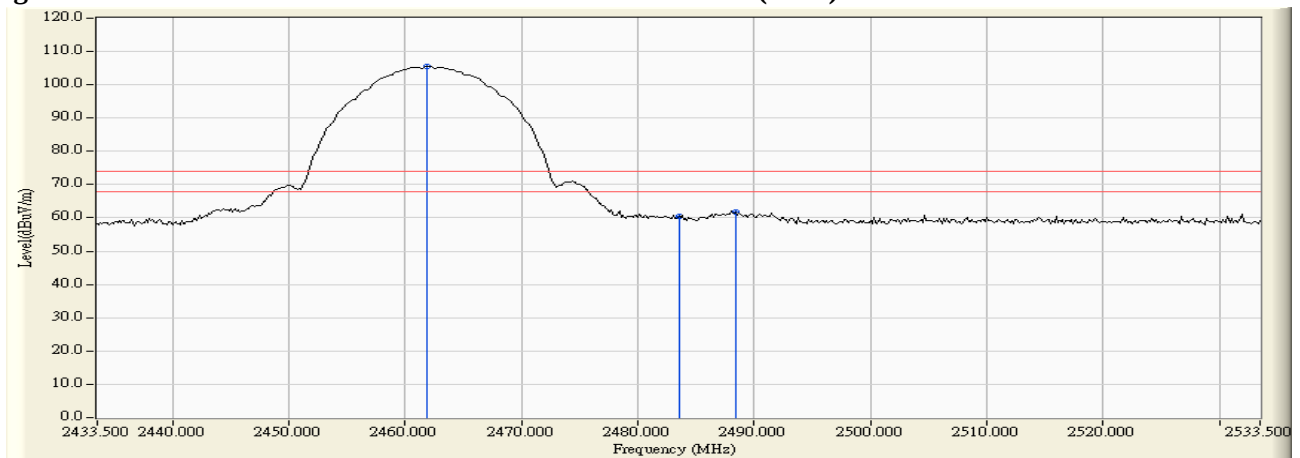
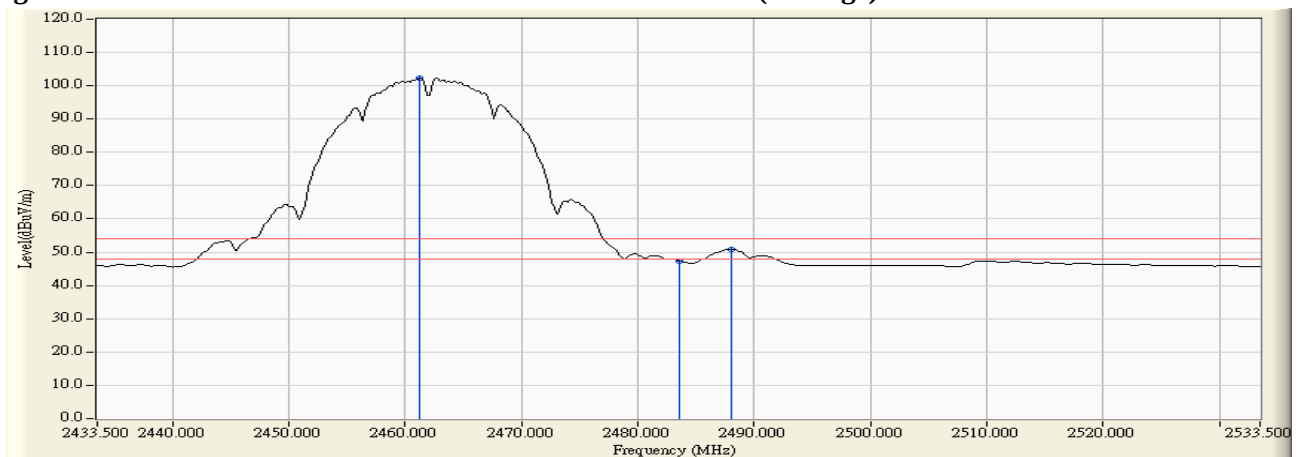


Figure Channel 11: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
01 (Peak)	2390.000	31.509	33.964	65.473	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	56.195	87.756	--	--	--
01 (Peak)	2415.217	31.663	77.638	109.301	--	--	--
01 (Average)	2390.000	31.509	19.618	51.127	74.00	54.00	Pass
01 (Average)	2400.000	31.561	33.758	65.319	--	--	--
01 (Average)	2414.058	31.654	66.828	98.482	--	--	--

Figure Channel 01: Horizontal (Peak)

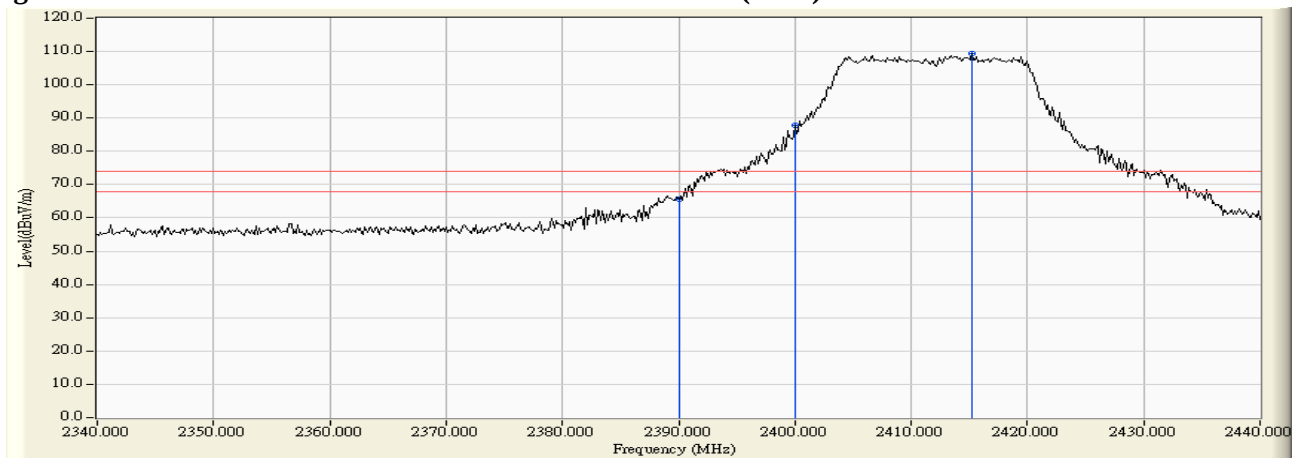
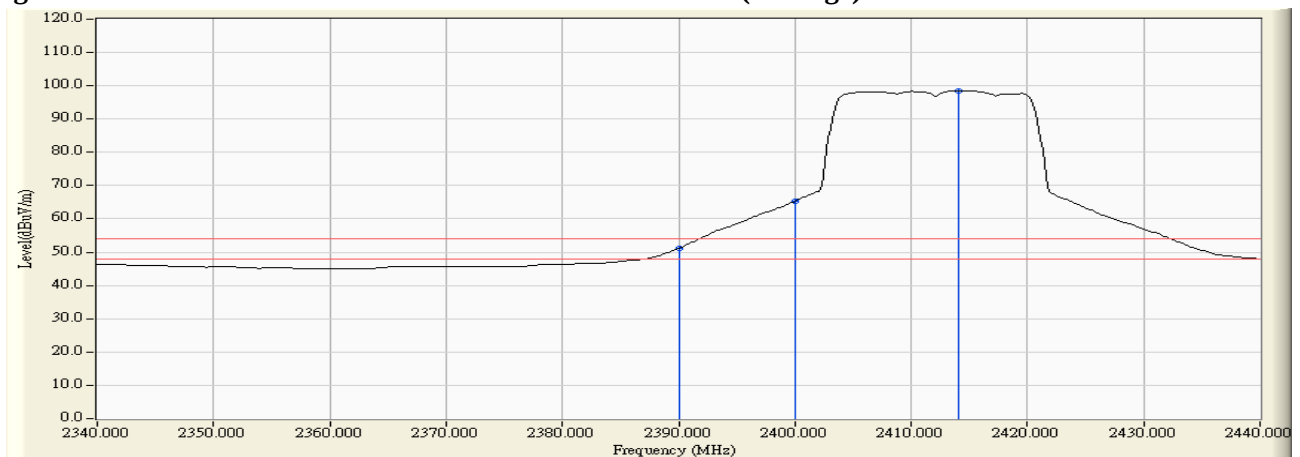


Figure Channel 01: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
01 (Peak)	2388.696	30.921	33.259	64.180	74.00	54.00	Pass
01 (Peak)	2390.000	30.915	32.343	63.258	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	53.108	84.020	--	--	--
01 (Peak)	2415.072	30.970	74.336	105.306	--	--	--
01 (Average)	2390.000	30.915	17.513	48.428	74.00	54.00	Pass
01 (Average)	2400.000	30.912	30.360	61.272	--	--	--
01 (Average)	2414.058	30.963	63.528	94.491	--	--	--

Figure Channel 01: VERTICAL (Peak)

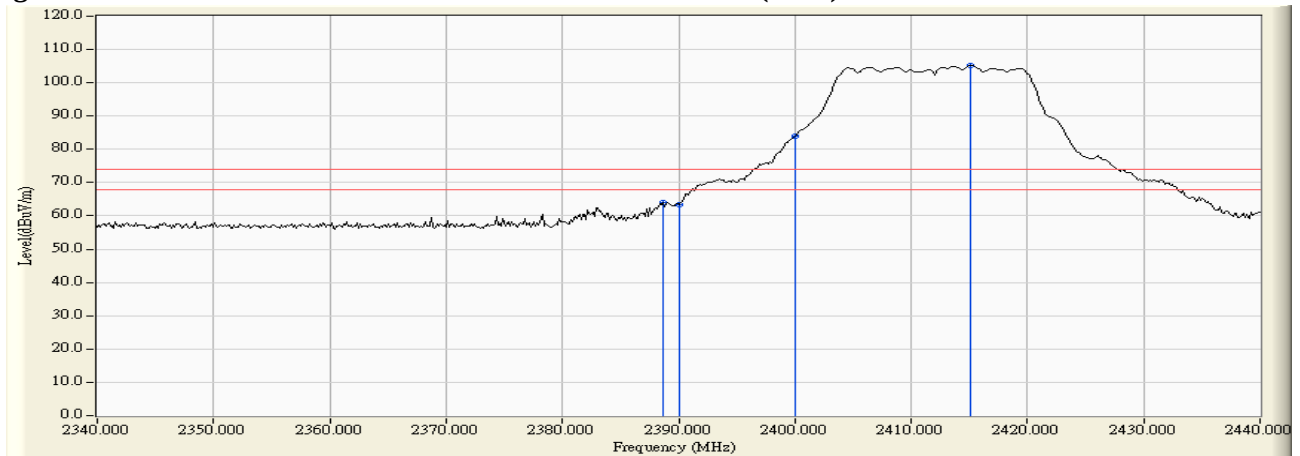
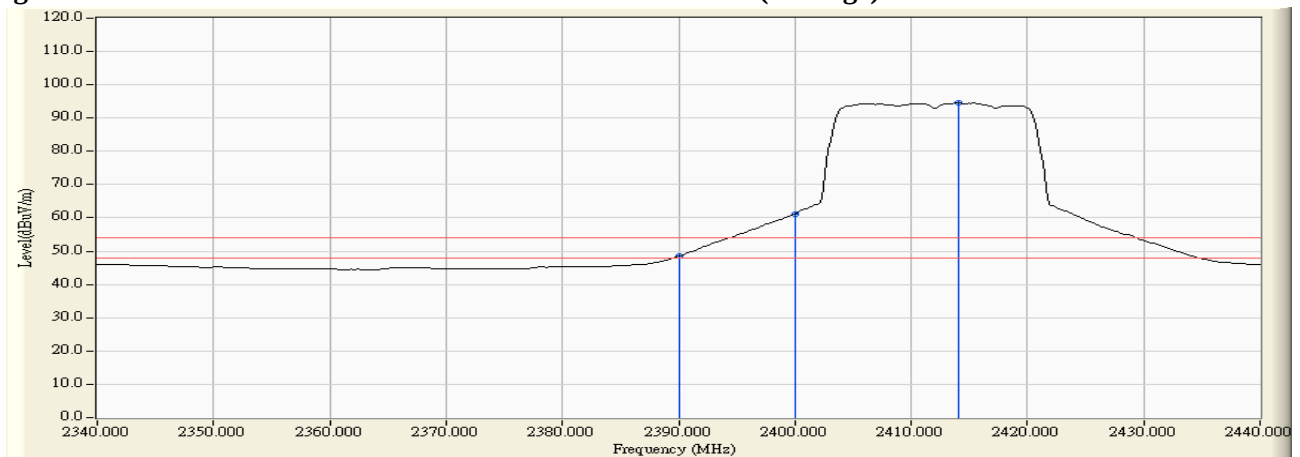


Figure Channel 01: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
11 (Peak)	2465.094	32.043	77.886	109.929	--	--	--
11 (Peak)	2483.500	32.182	39.668	71.850	74.00	54.00	Pass
11 (Average)	2460.022	32.004	67.252	99.256	--	--	--
11 (Average)	2483.500	32.182	20.462	52.644	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

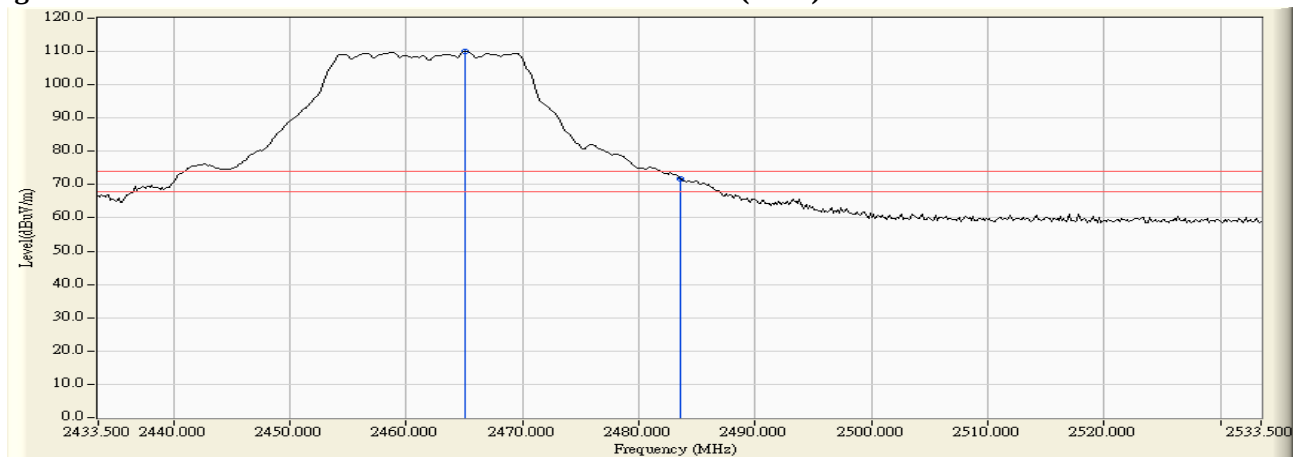
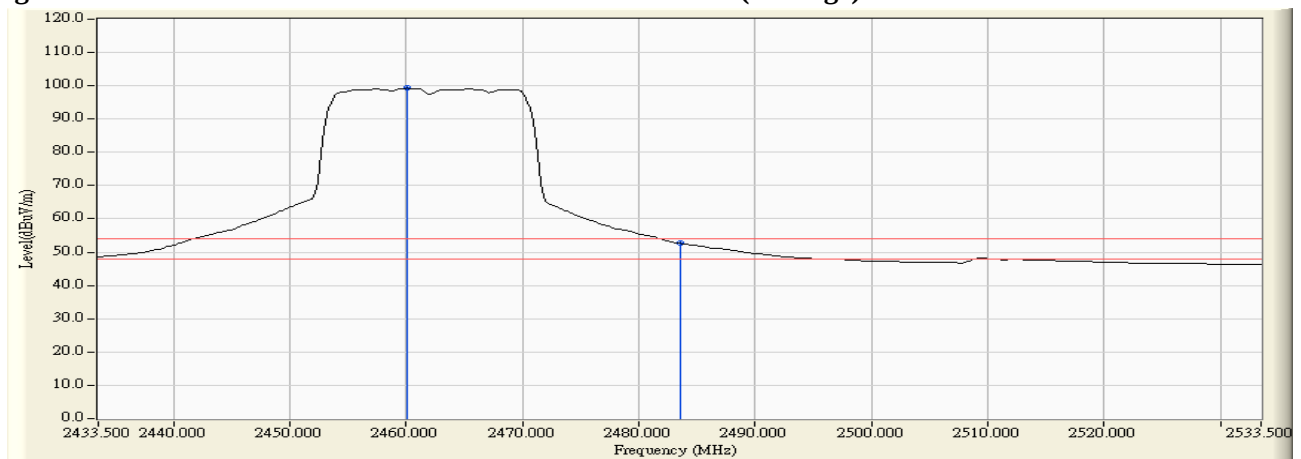


Figure Channel 11: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2462MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
11 (Peak)	2465.094	31.311	71.913	103.224	--	--	--
11 (Peak)	2483.500	31.435	34.640	66.075	74.00	54.00	Pass
11 (Average)	2460.022	31.276	61.227	92.504	--	--	--
11 (Average)	2483.500	31.435	17.280	48.715	74.00	54.00	Pass

Figure Channel 11: VERTICAL (Peak)

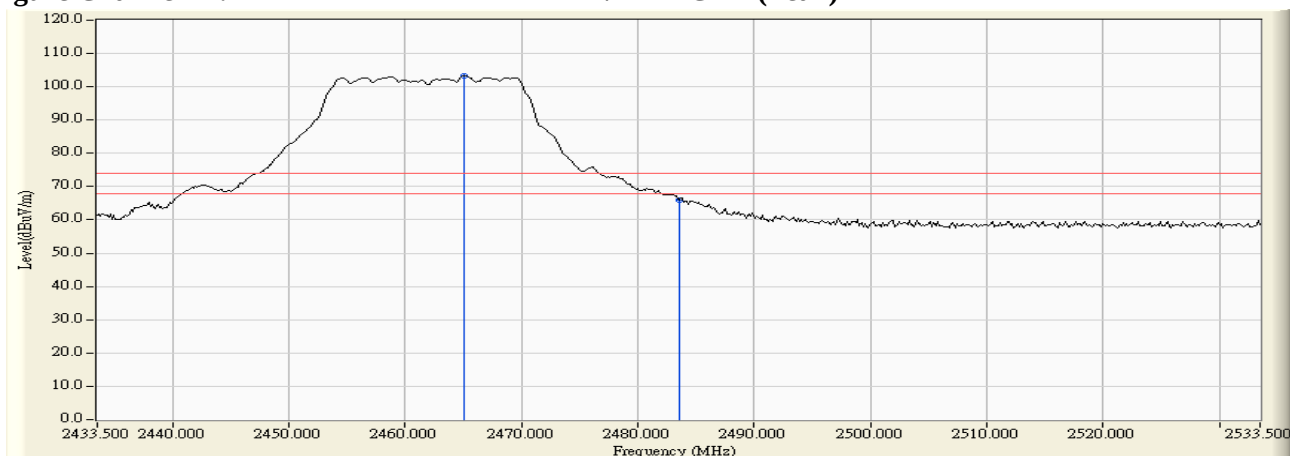
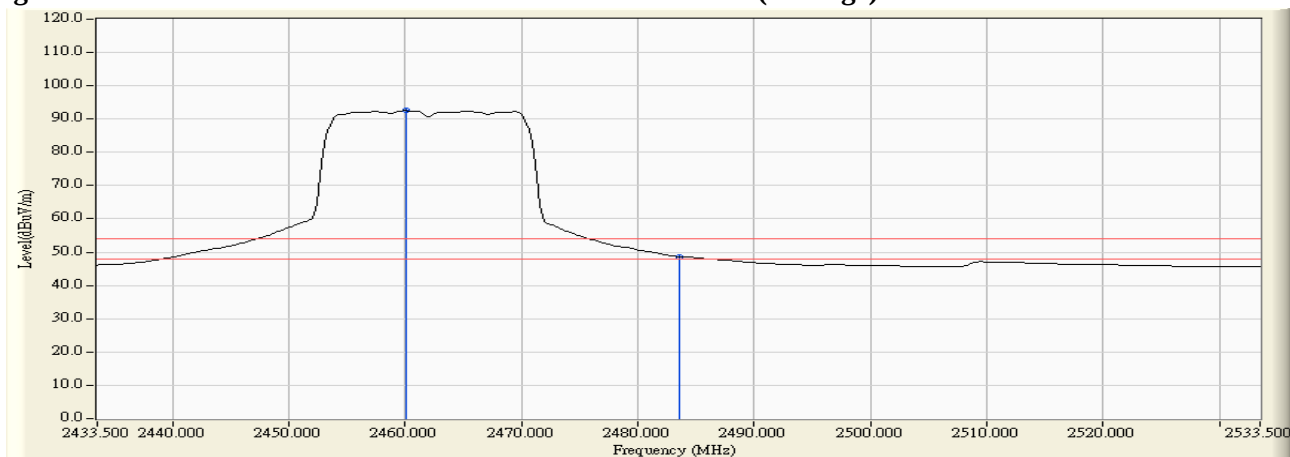


Figure Channel 11: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
01 (Peak)	2389.275	31.506	37.585	69.091	74.00	54.00	Pass
01 (Peak)	2390.000	31.509	36.031	67.540	74.00	54.00	Pass
01 (Peak)	2400.000	31.561	54.391	85.952	--	--	--
01 (Peak)	2416.377	31.672	77.446	109.118	--	--	--
01 (Average)	2390.000	31.509	20.607	52.116	74.00	54.00	Pass
01 (Average)	2400.000	31.561	32.723	64.284	--	--	--
01 (Average)	2414.203	31.655	66.921	98.576	--	--	--

Figure Channel 01:

Horizontal (Peak)

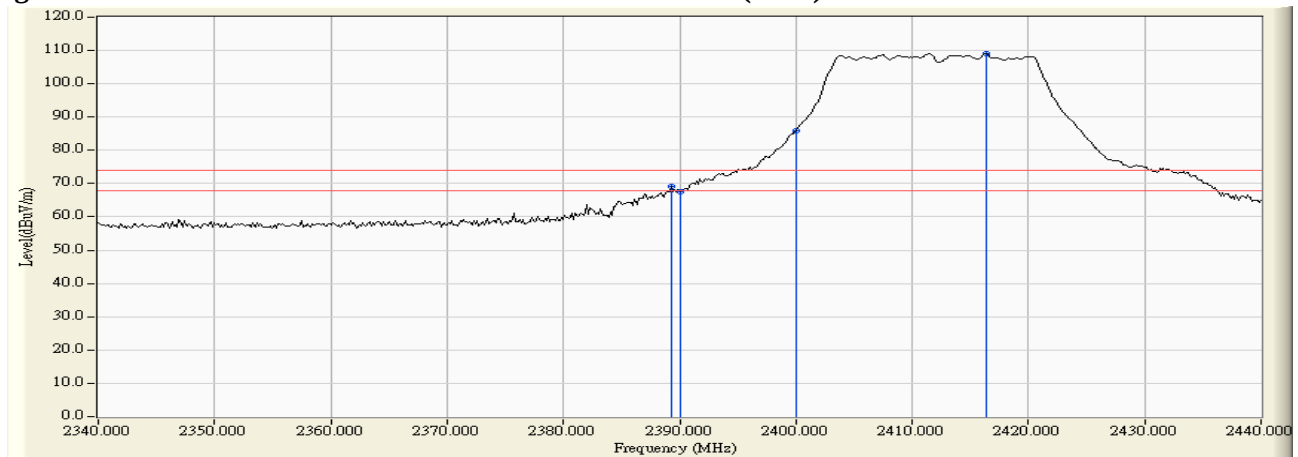
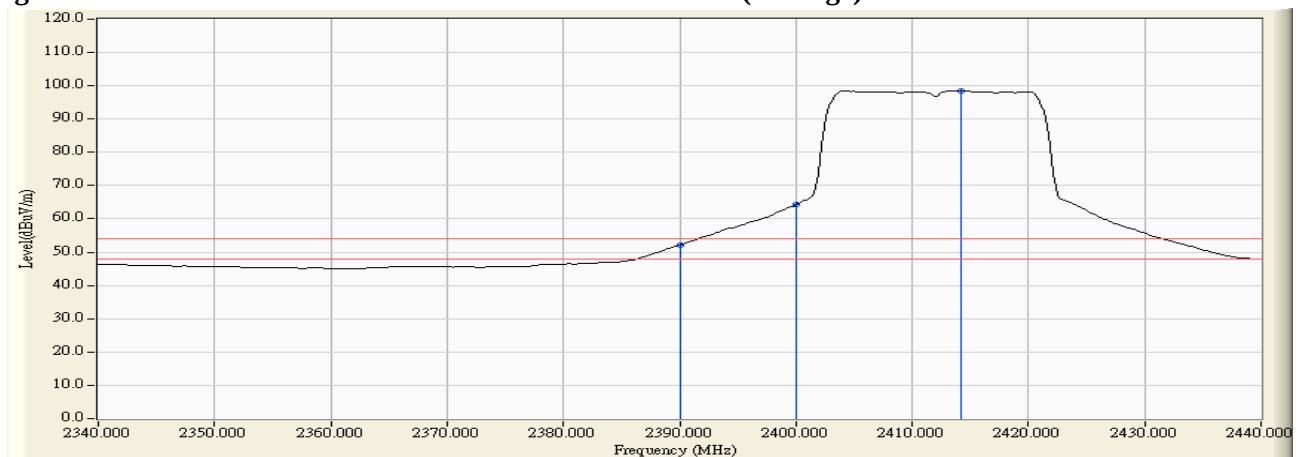


Figure Channel 01:

Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2412MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
01 (Peak)	2390.000	30.915	32.795	63.710	74.00	54.00	Pass
01 (Peak)	2400.000	30.912	49.720	80.632	--	--	--
01 (Peak)	2411.304	30.945	72.196	103.141	--	--	--
01 (Average)	2390.000	30.915	17.461	48.376	74.00	54.00	Pass
01 (Average)	2400.000	30.912	28.140	59.052	--	--	--
01 (Average)	2404.203	30.923	61.994	92.918	--	--	--

Figure Channel 01: VERTICAL (Peak)

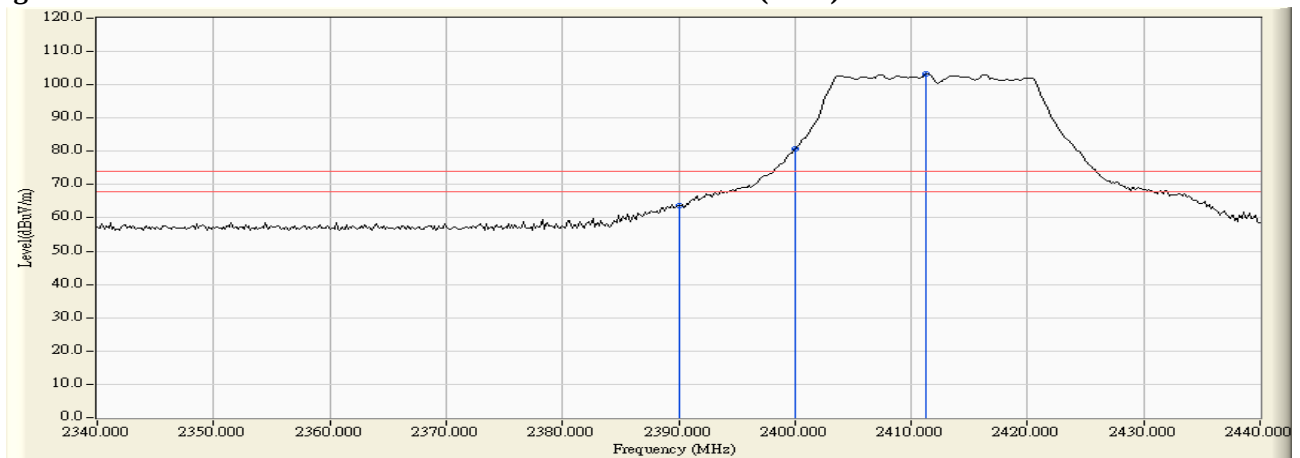
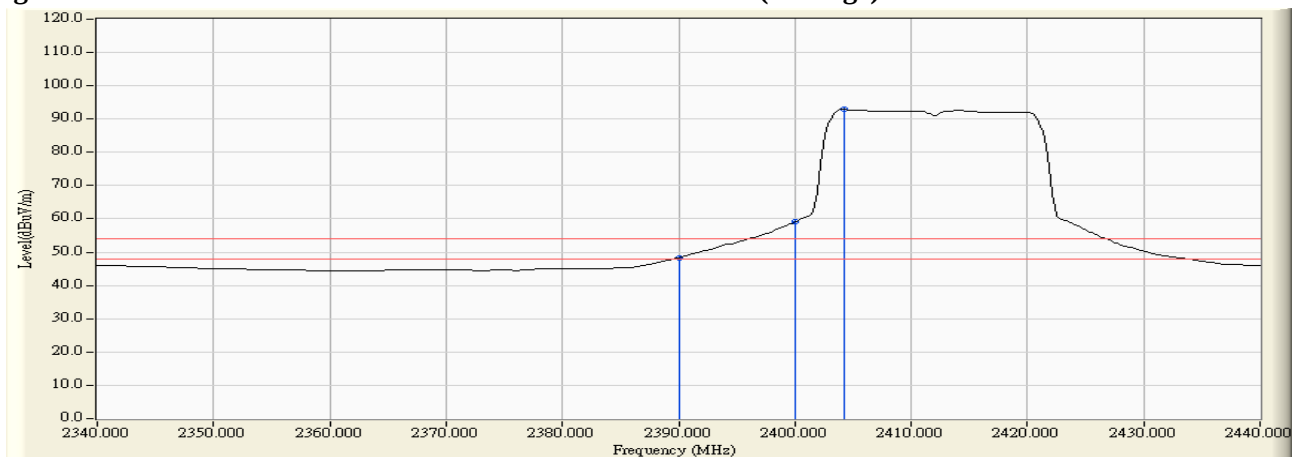


Figure Channel 01: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
11 (Peak)	2466.109	32.051	76.825	108.875	--	--	--
11 (Peak)	2483.500	32.182	36.797	68.979	74.00	54.00	Pass
11 (Peak)	2484.080	32.186	40.167	72.353	74.00	54.00	Pass
11 (Average)	2469.587	32.077	66.280	98.357	--	--	--
11 (Average)	2483.500	32.182	20.483	52.665	74.00	54.00	Pass

Figure Channel 11: Horizontal (Peak)

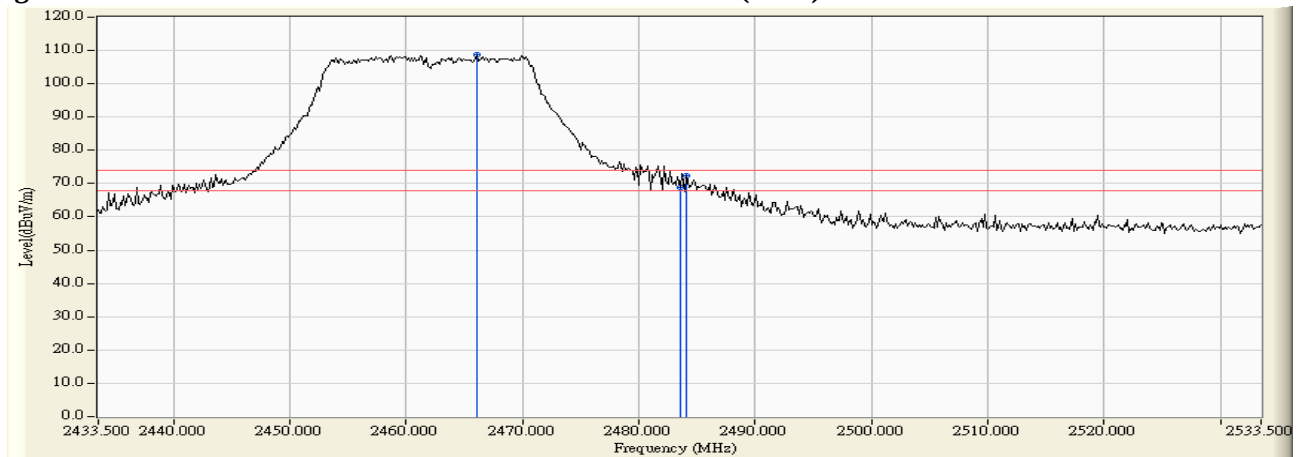
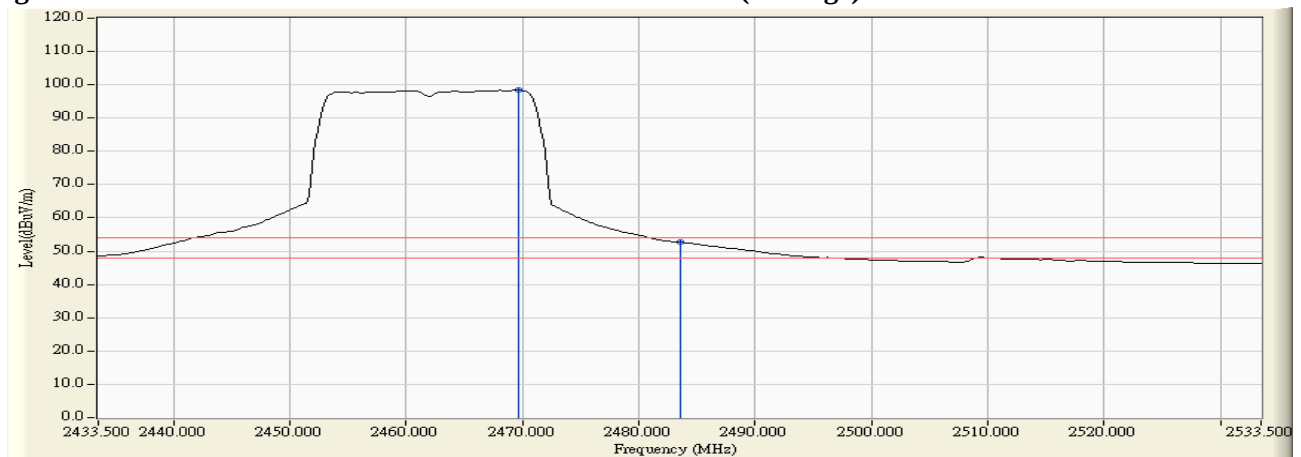


Figure Channel 11: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW) (2462MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
11 (Peak)	2466.254	31.319	71.522	102.841	--	--	--
11 (Peak)	2483.500	31.435	37.204	68.639	74.00	54.00	Pass
11 (Average)	2469.587	31.342	60.861	92.202	--	--	--
11 (Average)	2483.500	31.435	17.428	48.863	74.00	54.00	Pass

Figure Channel 11: VERTICAL (Peak)

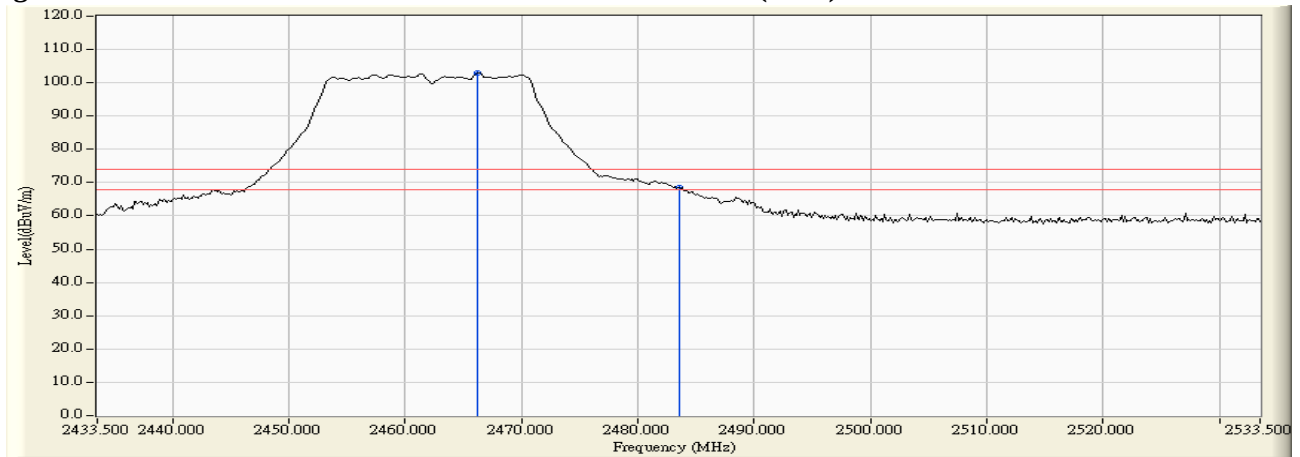
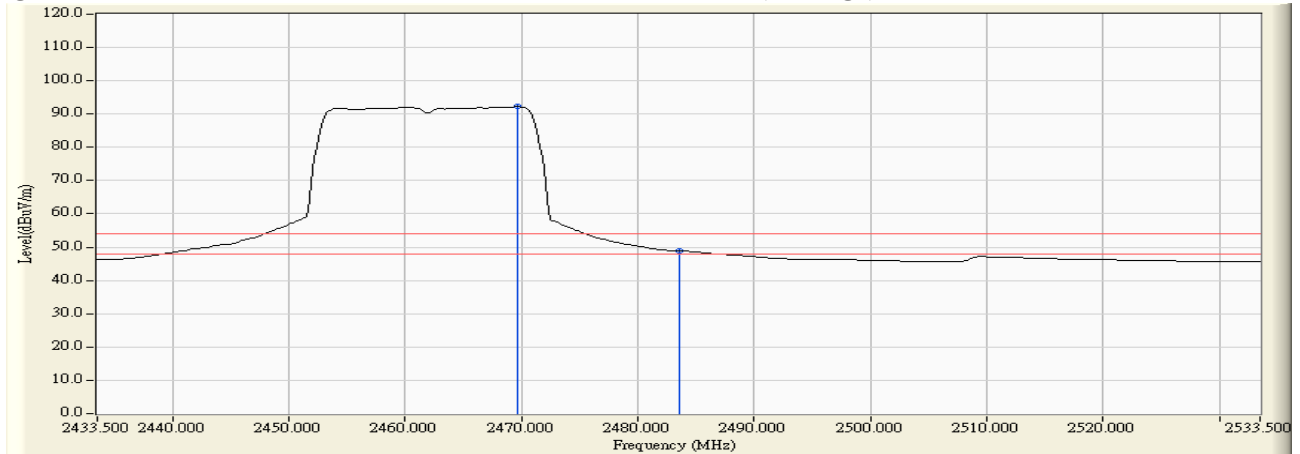


Figure Channel 11: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2422MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
03 (Peak)	2390.000	31.509	38.245	69.754	74.00	54.00	Pass
03 (Peak)	2398.116	31.550	47.605	79.155	--	--	--
03 (Peak)	2400.000	31.561	44.259	75.820	--	--	--
03 (Peak)	2425.217	31.740	74.507	106.247	--	--	--
03 (Average)	2390.000	31.509	22.237	53.746	74.00	54.00	Pass
03 (Average)	2398.406	31.552	36.576	68.128	--	--	--
03 (Average)	2400.000	31.561	32.753	64.314	--	--	--
03 (Average)	2425.217	31.740	63.629	95.369	--	--	--

Figure Channel 03:

Horizontal (Peak)

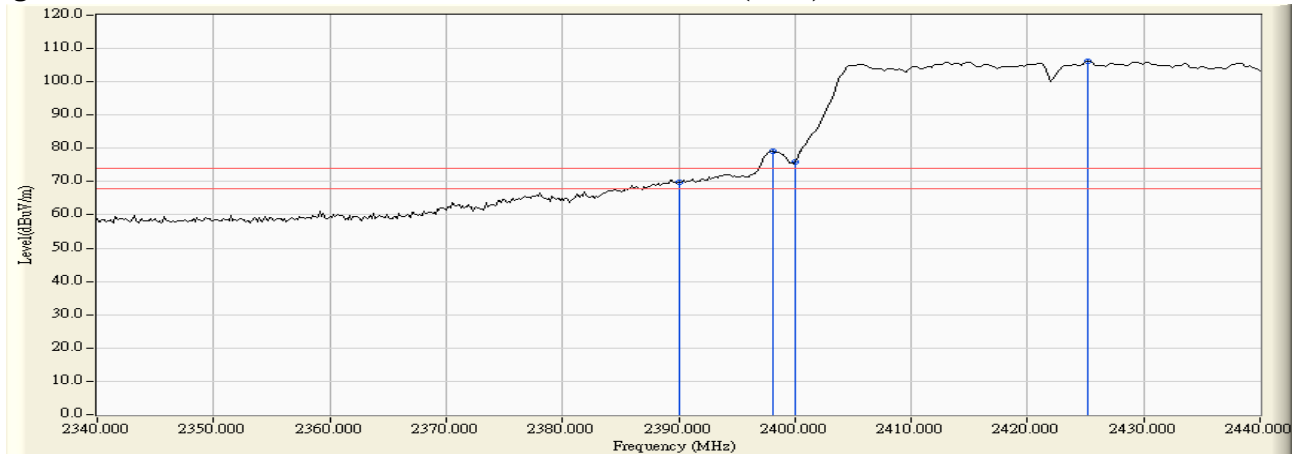
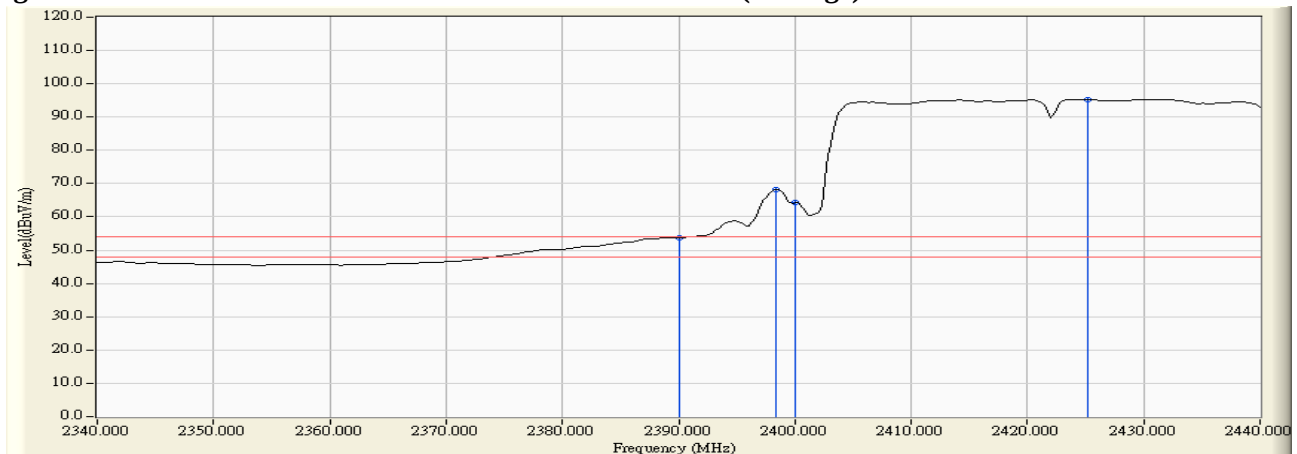


Figure Channel 03:

Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2422MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
03 (Peak)	2389.130	30.919	32.801	63.720	74.00	54.00	Pass
03 (Peak)	2390.000	30.915	31.401	62.316	74.00	54.00	Pass
03 (Peak)	2397.826	30.907	40.843	71.750	--	--	--
03 (Peak)	2400.000	30.912	37.858	68.770	--	--	--
03 (Peak)	2425.217	31.039	69.148	100.187	--	--	--
03 (Average)	2390.000	30.915	17.104	48.019	74.00	54.00	Pass
03 (Average)	2398.406	30.909	29.679	60.587	--	--	--
03 (Average)	2400.000	30.912	26.019	56.931	--	--	--
03 (Average)	2431.449	31.081	58.445	89.526	--	--	--

Figure Channel 03: VERTICAL (Peak)

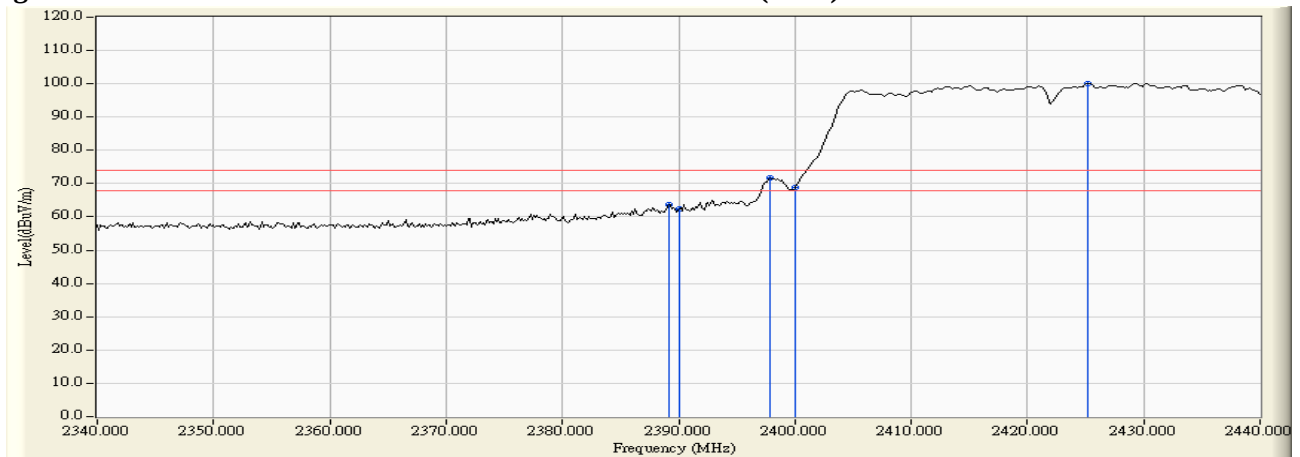
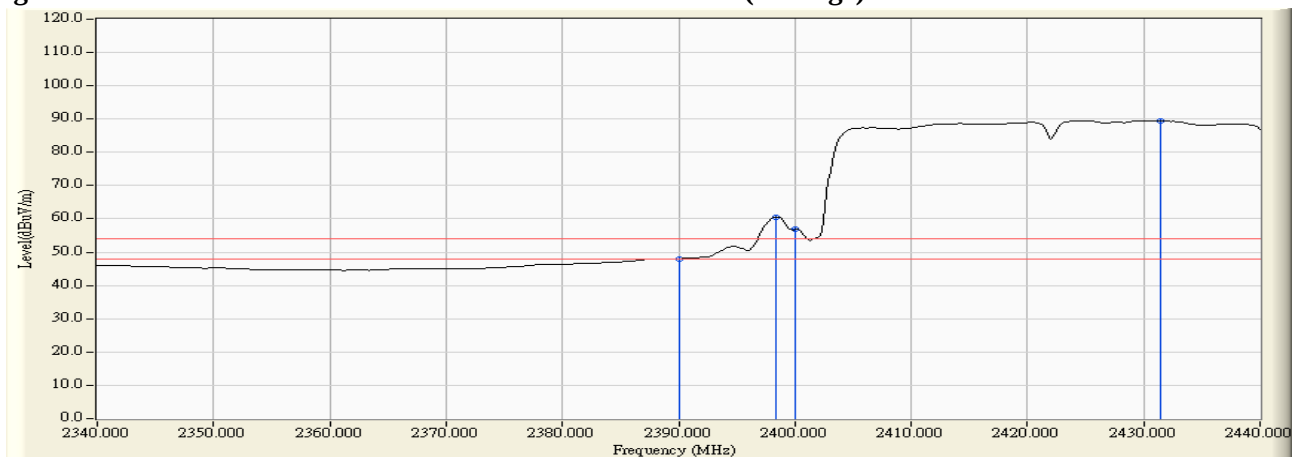


Figure Channel 03: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2452MHz)

RF Radiated Measurement (Horizontal):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
09 (Peak)	2455.094	31.967	73.960	105.927	--	--	--
09 (Peak)	2483.500	32.182	37.681	69.863	74.00	54.00	Pass
09 (Peak)	2494.080	32.262	38.559	70.821	74.00	54.00	Pass
09 (Average)	2450.312	31.931	63.249	95.180	--	--	--
09 (Average)	2483.500	32.182	21.350	53.532	74.00	54.00	Pass

Figure Channel 09: Horizontal (Peak)

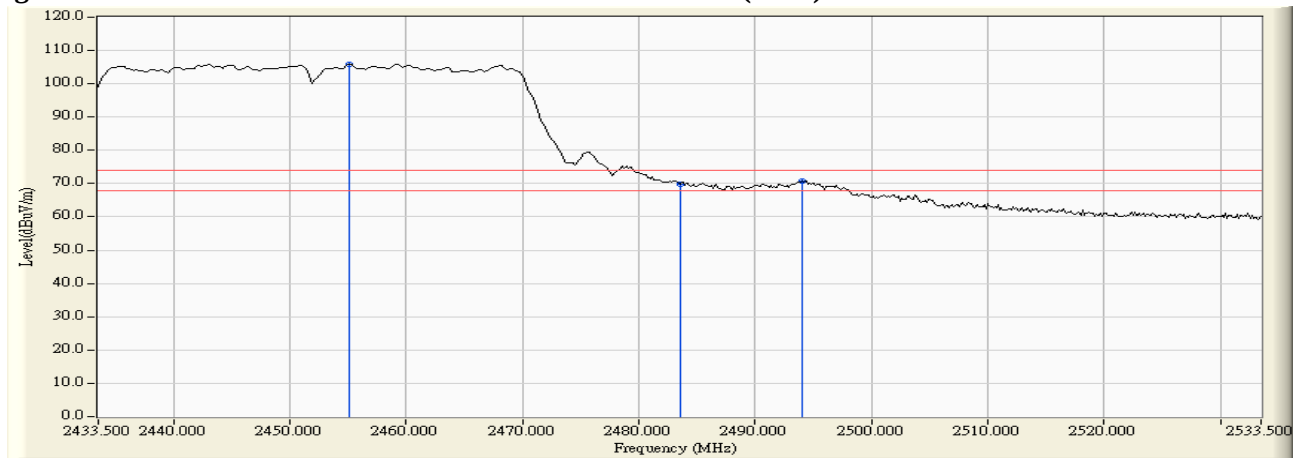
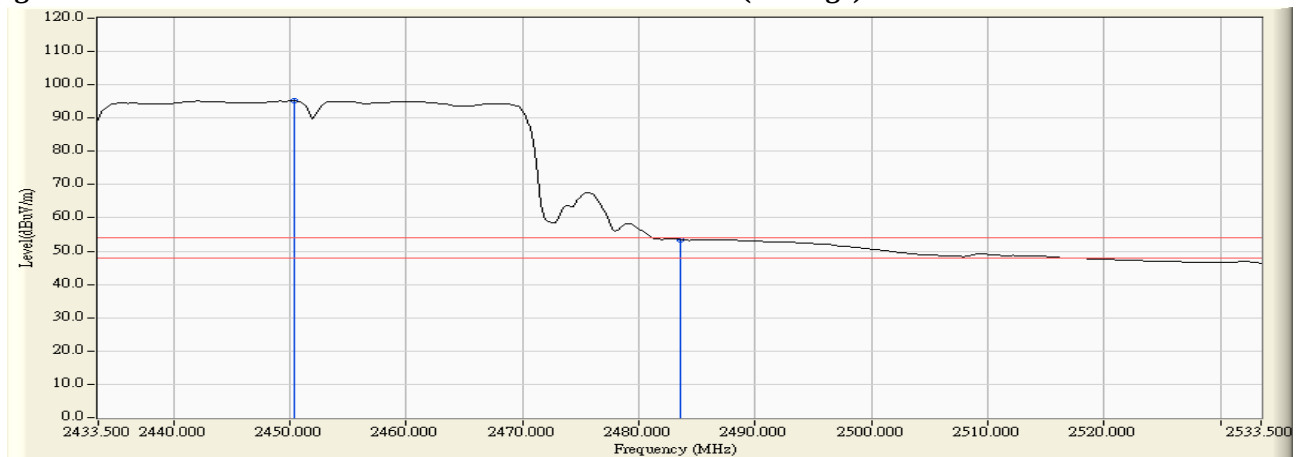


Figure Channel 09: Horizontal (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

Product : Alcatel Wi-Fi camera
Test Item : Band Edge Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW) (2452MHz)

RF Radiated Measurement (VERTICAL):

Channel No.	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Peak Limit (dBμV/m)	Average Limit (dBμV/m)	Result
09 (Peak)	2446.543	31.184	68.400	99.584	--	--	--
09 (Peak)	2483.500	31.435	33.126	64.561	74.00	54.00	Pass
09 (Peak)	2494.225	31.507	34.403	65.911	74.00	54.00	Pass
09 (Average)	2442.051	31.152	57.895	89.048	--	--	--
09 (Average)	2483.500	31.435	17.975	49.410	74.00	54.00	Pass

Figure Channel 09: VERTICAL (Peak)

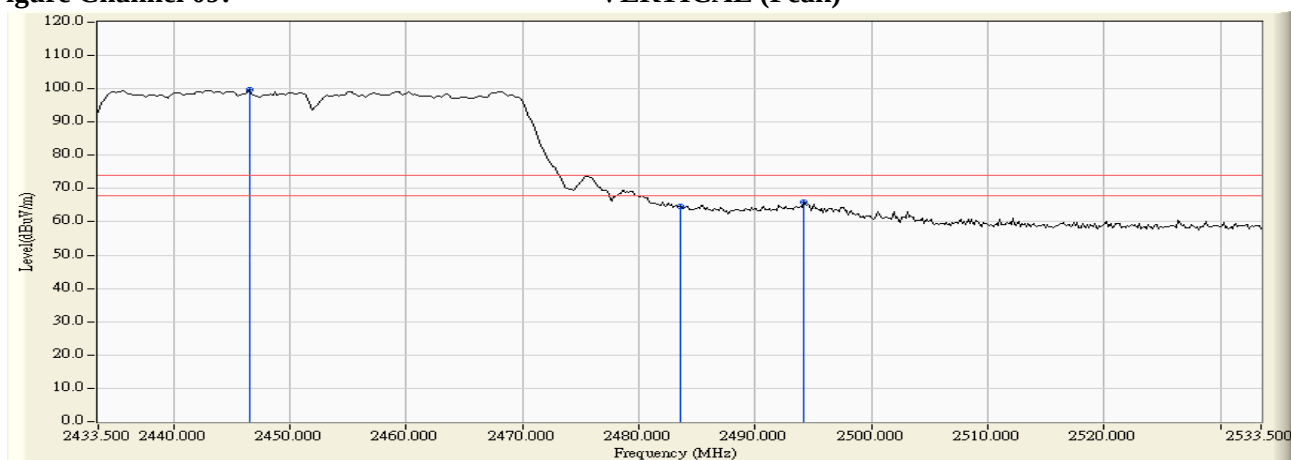
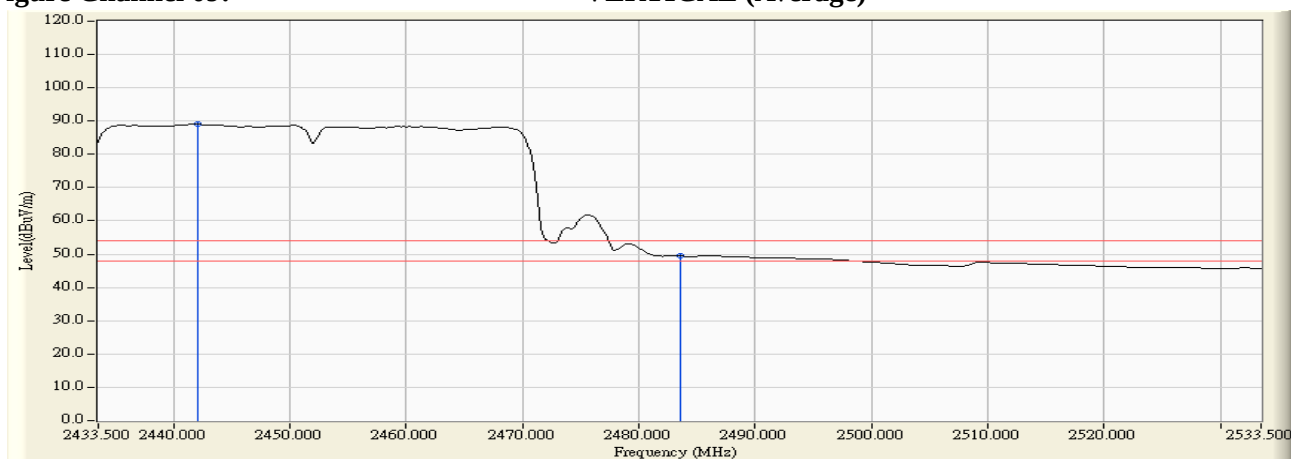


Figure Channel 09: VERTICAL (Average)



- Note:1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.

7. Occupied Bandwidth

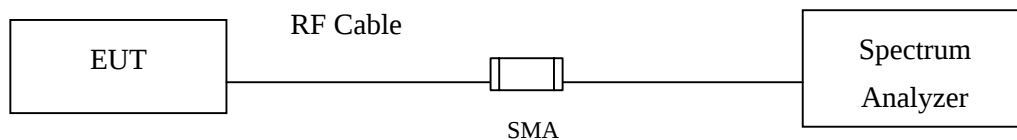
7.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

7.2. Test Setup



7.3. Limits

The minimum bandwidth shall be at least 500 kHz.

7.4. Test Procedure

The EUT was setup according to ANSI C63.4: 2014; tested according to DTS test procedure of Jan KDB558074 for compliance to FCC 47CFR 15.247 requirements.

7.5. Uncertainty

$\pm 150\text{Hz}$

7.6. Test Result of Occupied Bandwidth

Product : Alcatel Wi-Fi camera
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	10150	>500	Pass
06	2437	10150	>500	Pass
11	2462	10150	>500	Pass

Figure Channel 01:

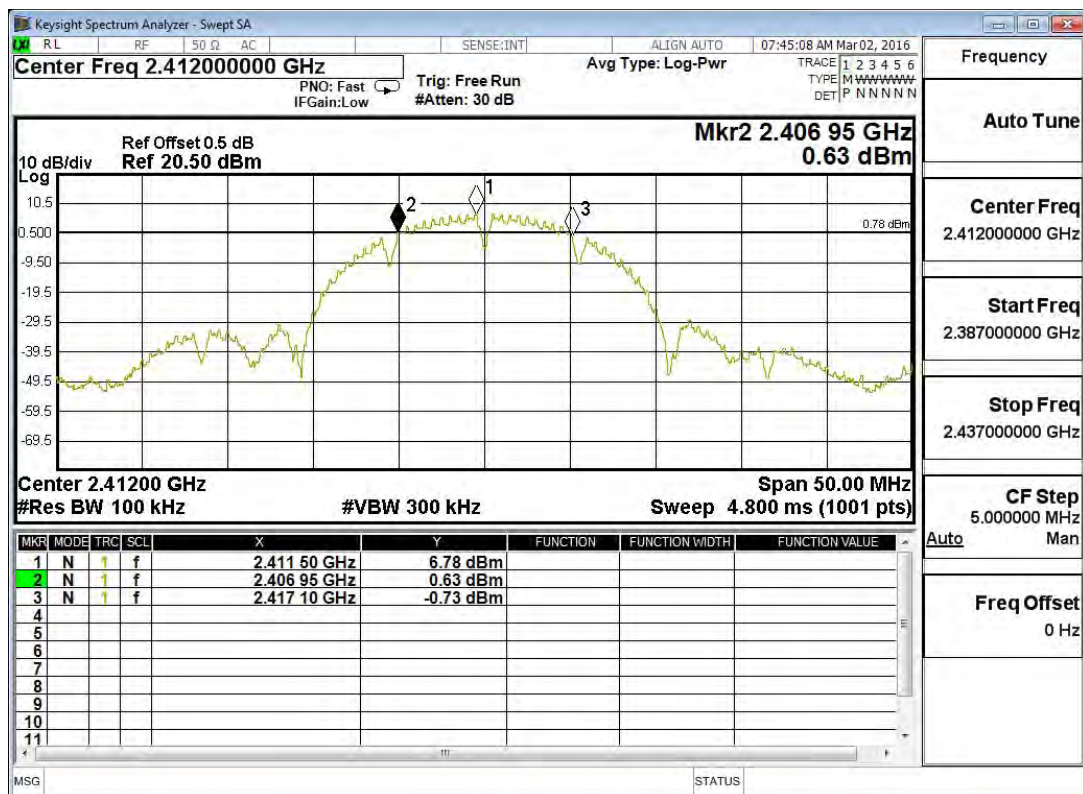


Figure Channel 06:

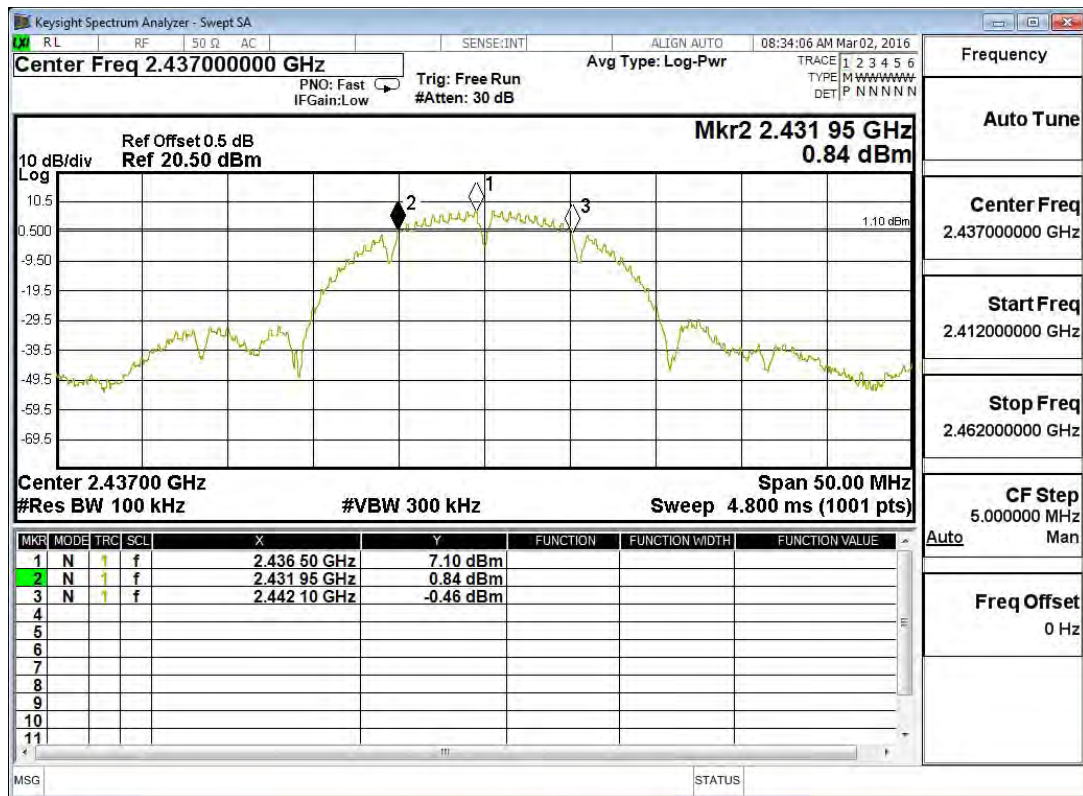
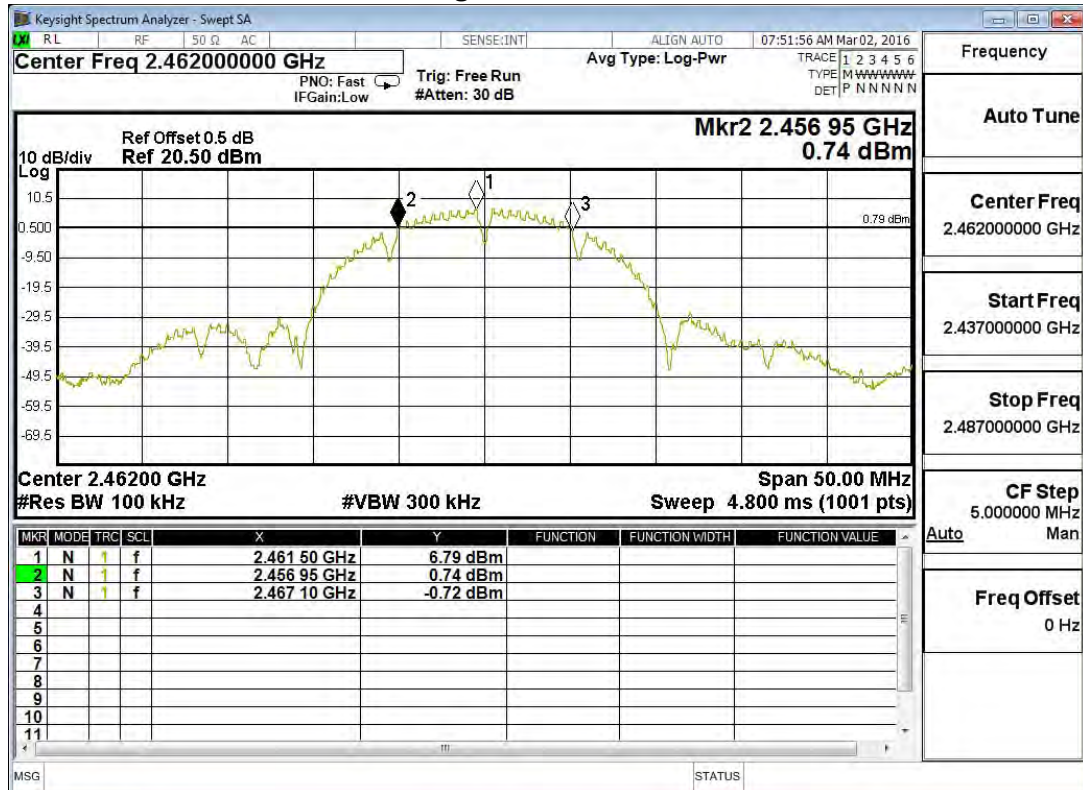


Figure Channel 11:



Product : Alcatel Wi-Fi camera
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps) (2412MHz)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	16600	>500	Pass
06	2437	16600	>500	Pass
11	2462	16600	>500	Pass

Figure Channel 01:

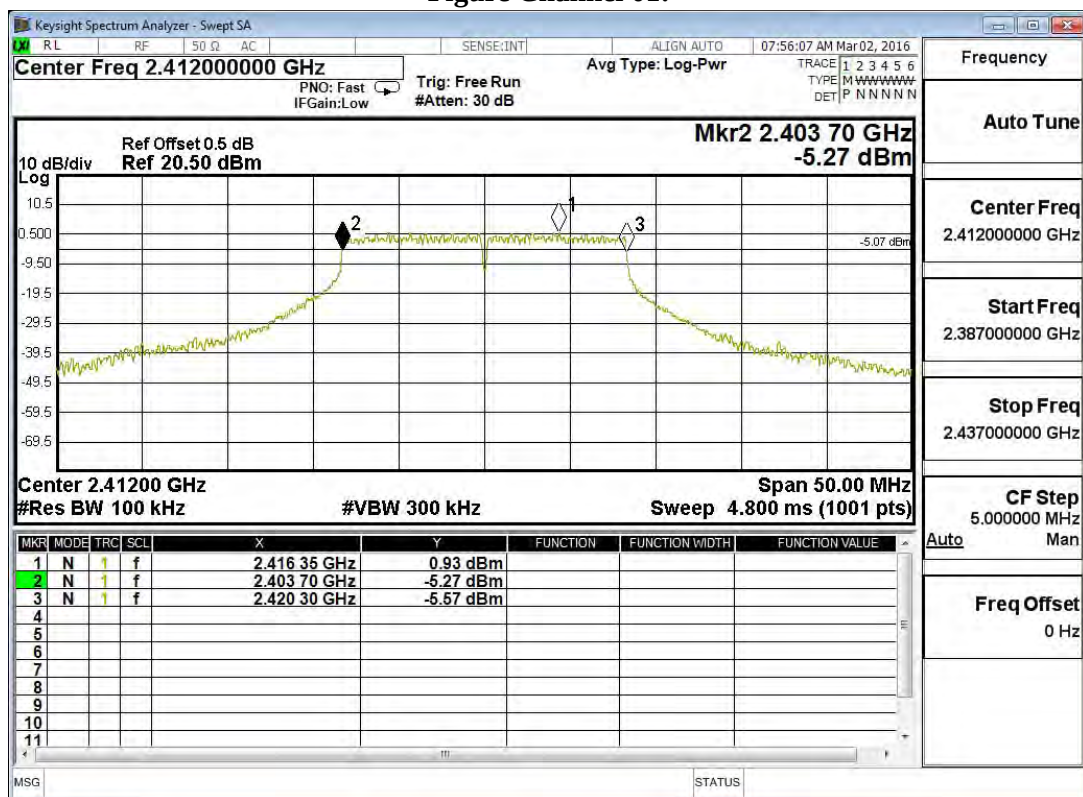


Figure Channel 06:

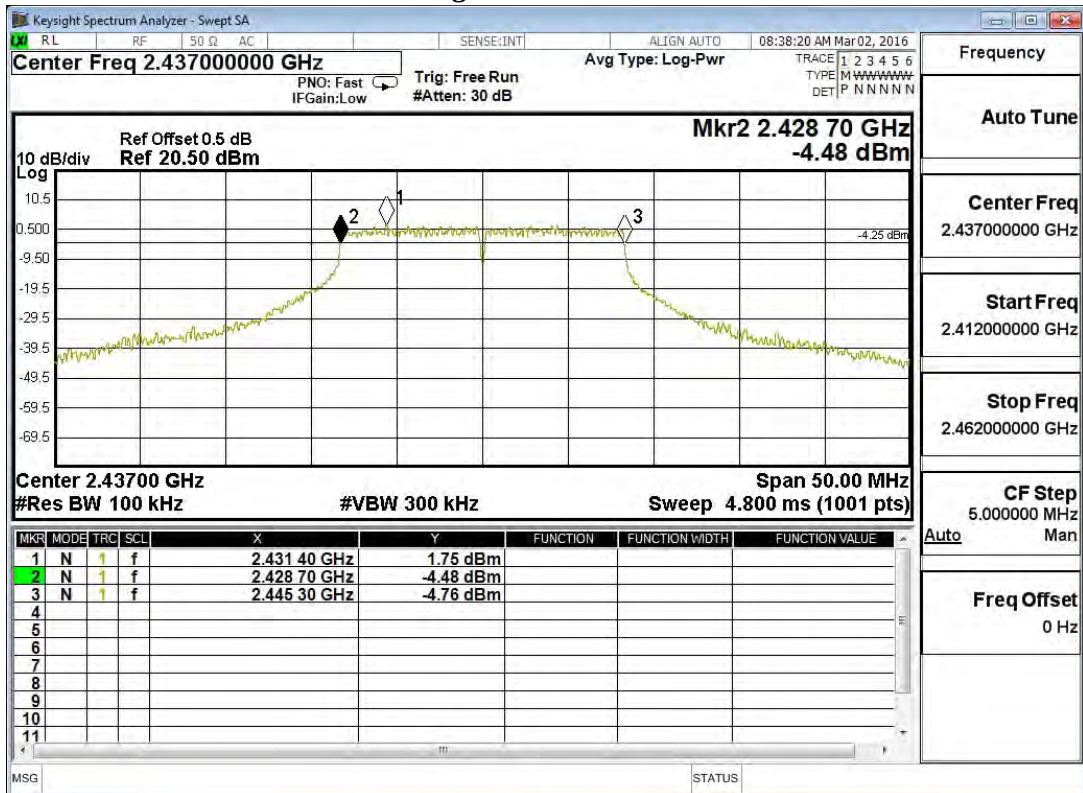
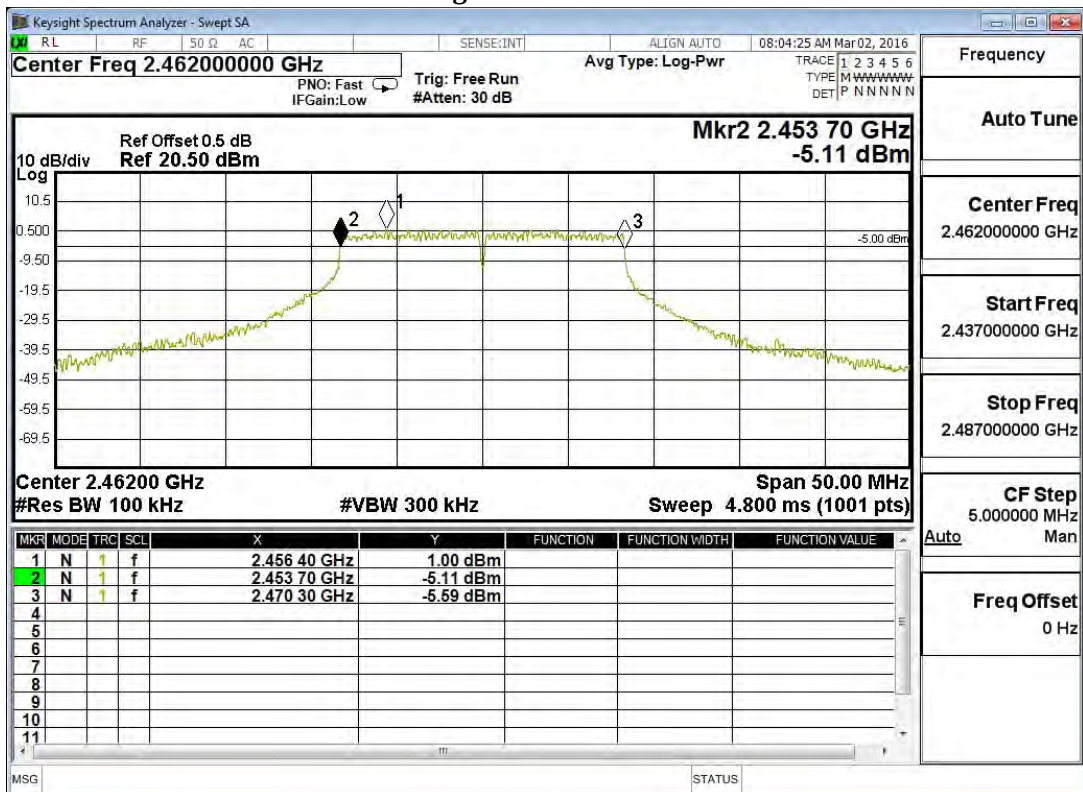


Figure Channel 11:



Product : Alcatel Wi-Fi camera
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
01	2412	17900	>500	Pass
06	2437	17900	>500	Pass
11	2462	17900	>500	Pass

Figure Channel 01:

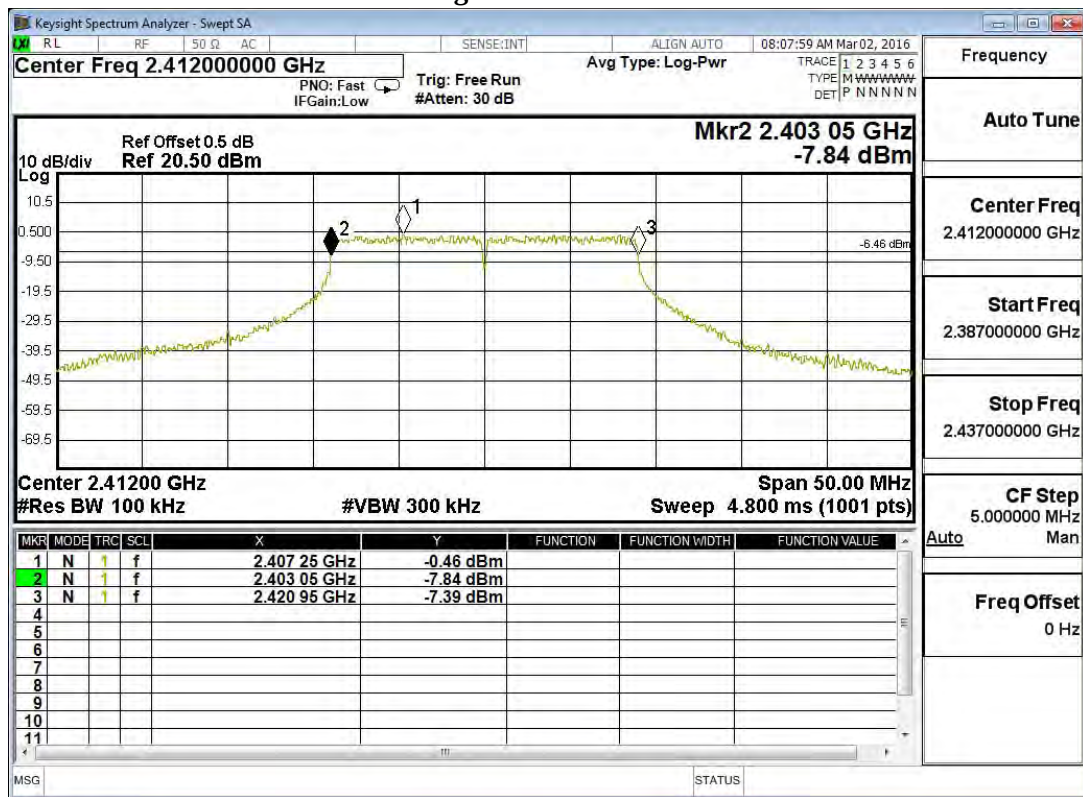


Figure Channel 06:

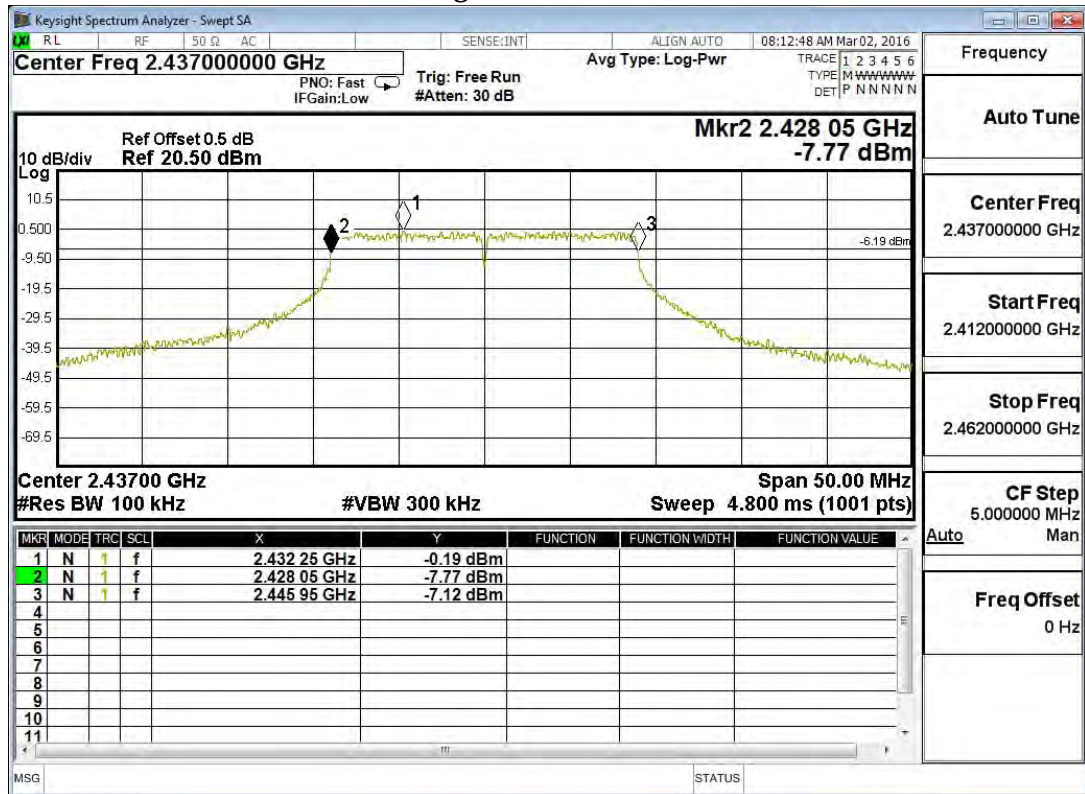
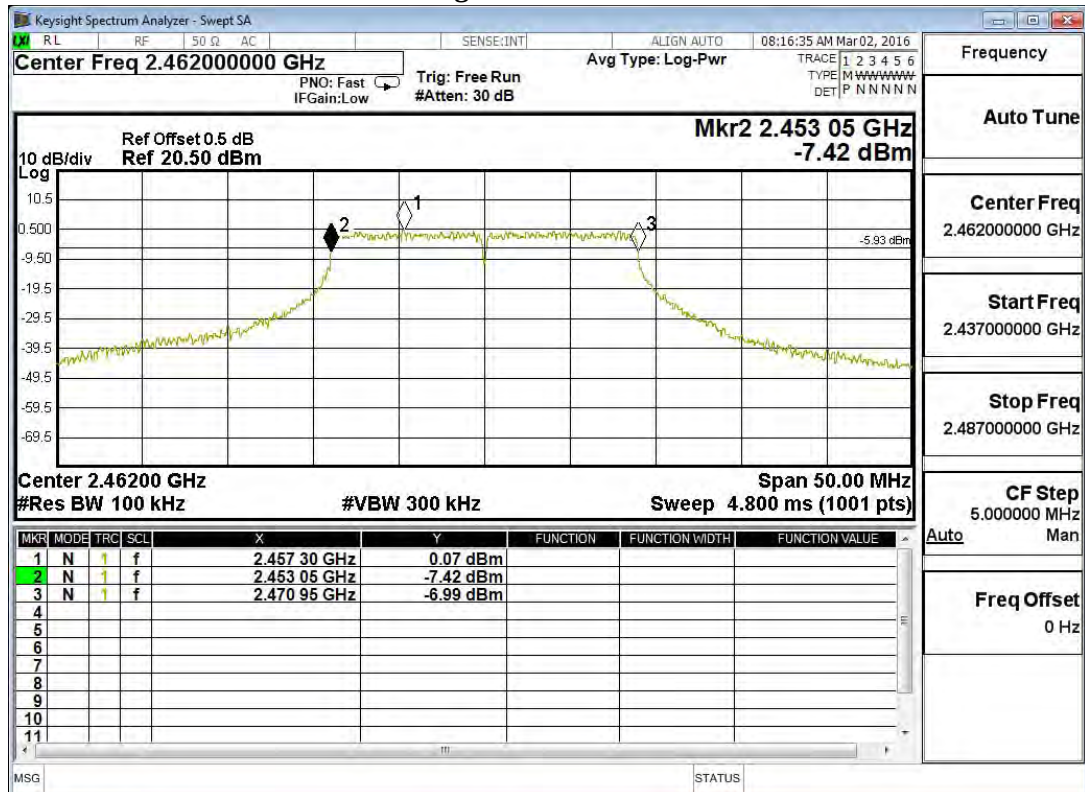


Figure Channel 11:



Product : Alcatel Wi-Fi camera
Test Item : Occupied Bandwidth Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

Channel No.	Frequency (MHz)	Measurement Level (kHz)	Required Limit (kHz)	Result
03	2422	36600	>500	Pass
06	2437	36600	>500	Pass
09	2452	36600	>500	Pass

Figure Channel 03:

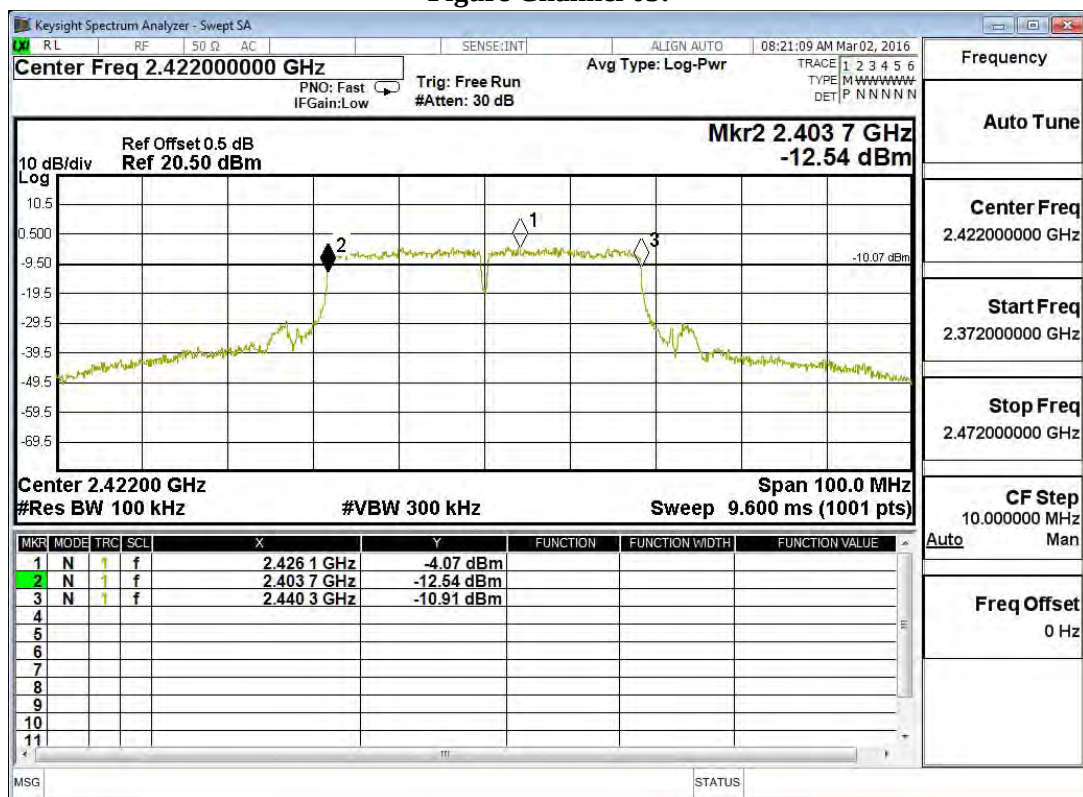


Figure Channel 06:

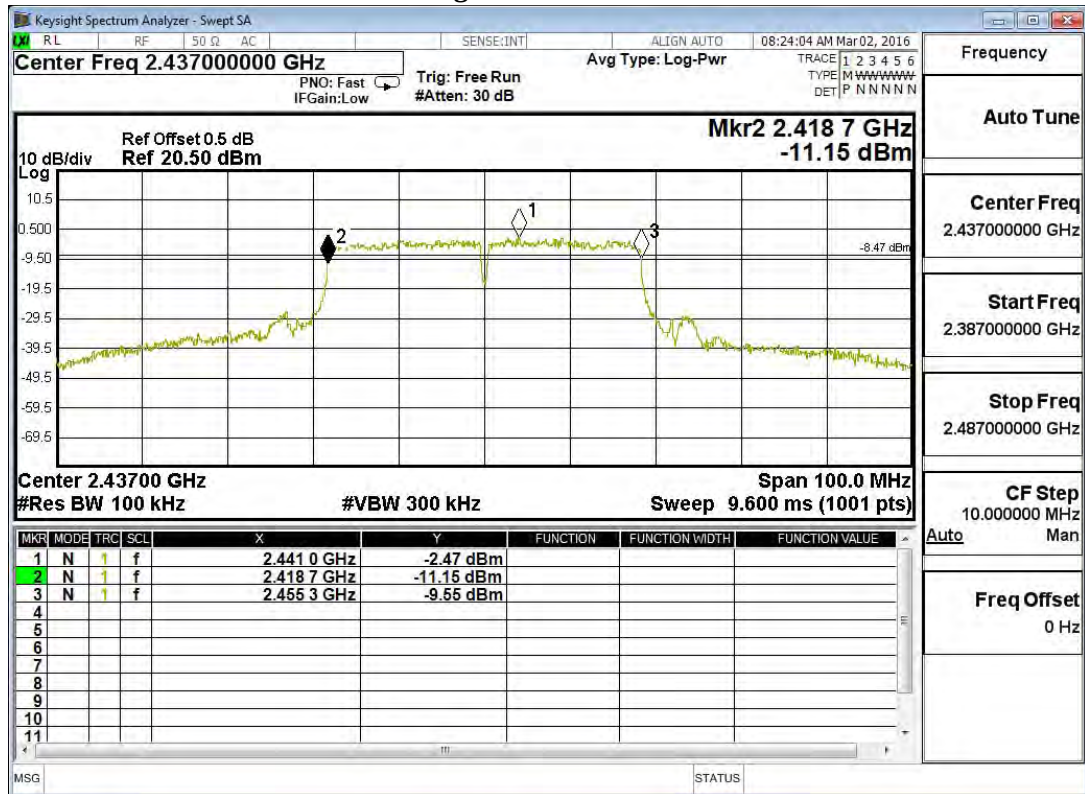
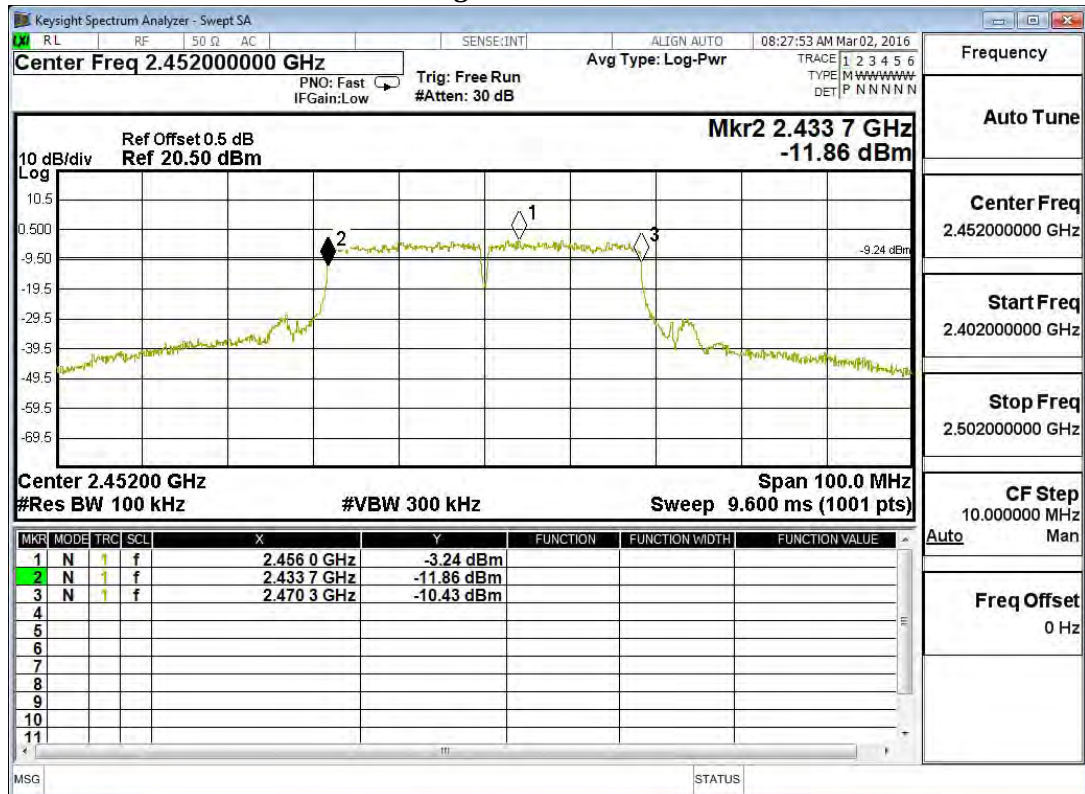


Figure Channel 09:



8. Power Density

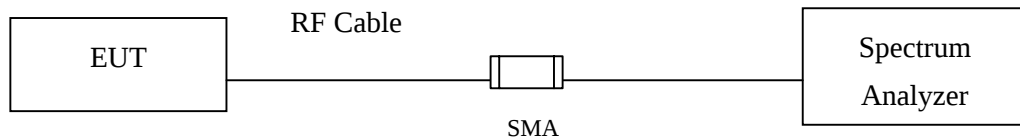
8.1. Test Equipment

	Equipment	Manufacturer	Model No./Serial No.	Last Cal.
	Spectrum Analyzer	R&S	FSP40 / 100170	Jun., 2015
	Spectrum Analyzer	Agilent	E4407B / US39440758	Jun., 2015
X	Spectrum Analyzer	Agilent	N9010A / MY48030495	Apr., 2015

Note:

1. All equipments are calibrated with traceable calibrations. Each calibration is traceable to the national or international standards.
2. The test instruments marked with “X” are used to measure the final test results.

8.2. Test Setup



8.3. Limits

The transmitted power density averaged over any 1 second interval shall not be greater +8dBm in any 3kHz bandwidth.

8.4. Test Procedure

The EUT was setup according to ANSI C63.10, 2013; tested according to DTS test procedure of KDB 558074 for compliance to FCC 47CFR 15.247 requirements.

The maximum power spectral density using KDB 558074 section 10.2 PKPSD (peak PSD) method.

8.5. Uncertainty

± 1.27 dB

8.6. Test Result of Power Density

Product : Alcatel Wi-Fi camera
 Test Item : Power Density Data
 Test Site : No.3 OATS
 Test Mode : Mode 1: Transmit (802.11b 1Mbps)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	6.750	< 8dBm	Pass
06	2437	7.050	< 8dBm	Pass
11	2462	6.790	< 8dBm	Pass

Figure Channel 01:

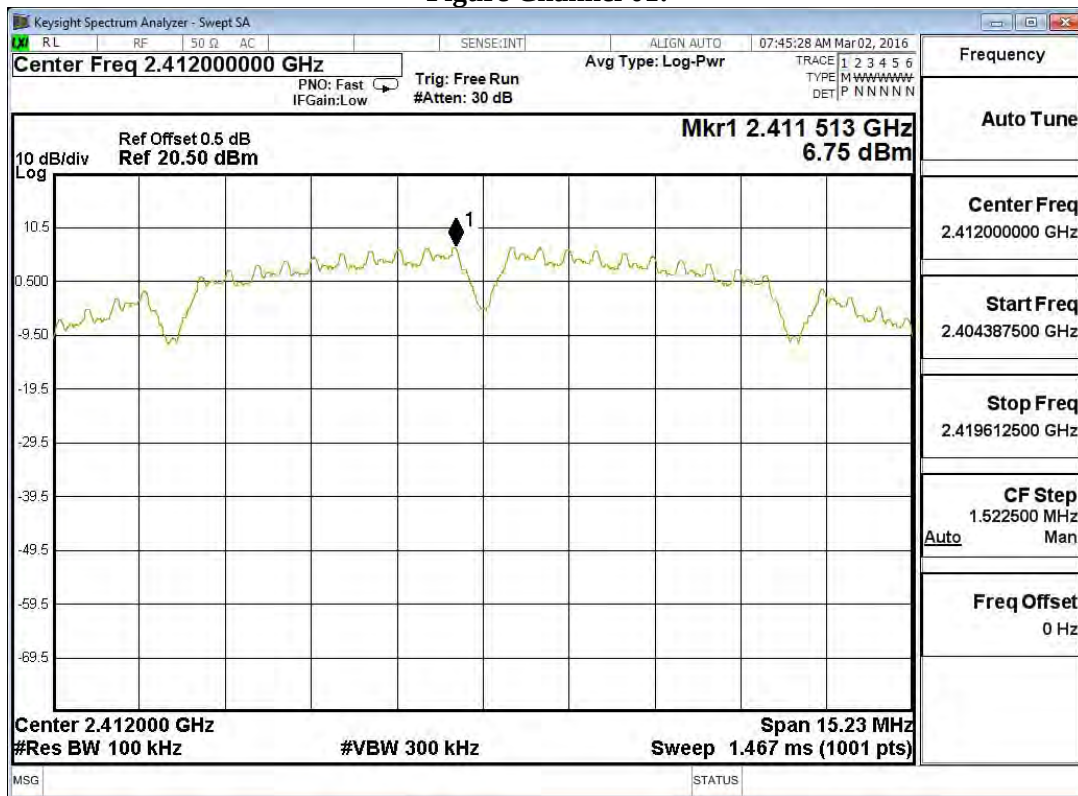


Figure Channel 06:

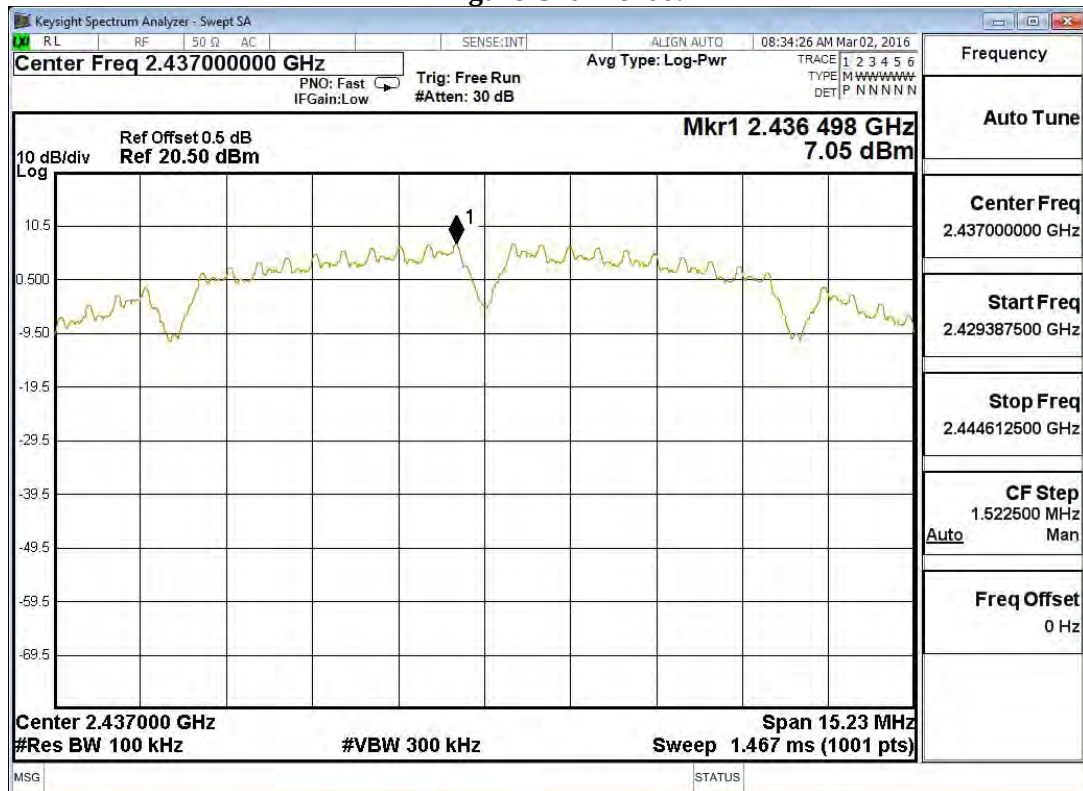
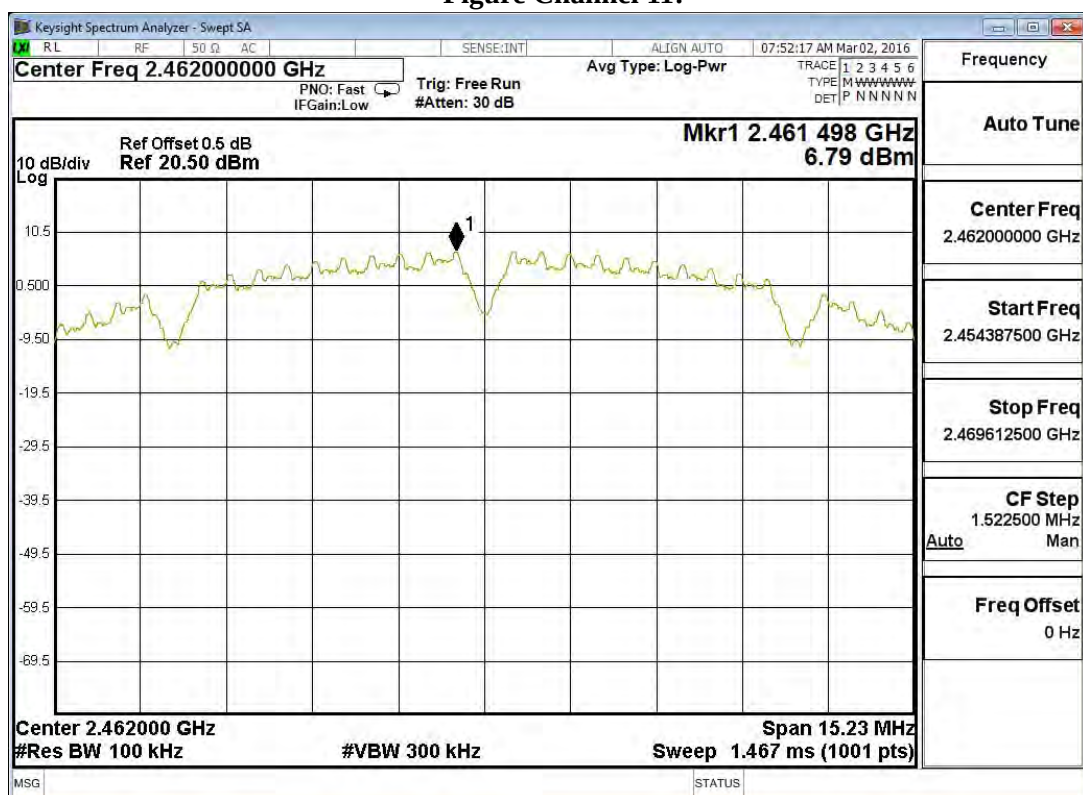


Figure Channel 11:



Product : Alcatel Wi-Fi camera
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 2: Transmit (802.11g 6Mbps)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	0.930	< 8dBm	Pass
06	2437	1.690	< 8dBm	Pass
11	2462	0.980	< 8dBm	Pass

Figure Channel 01:

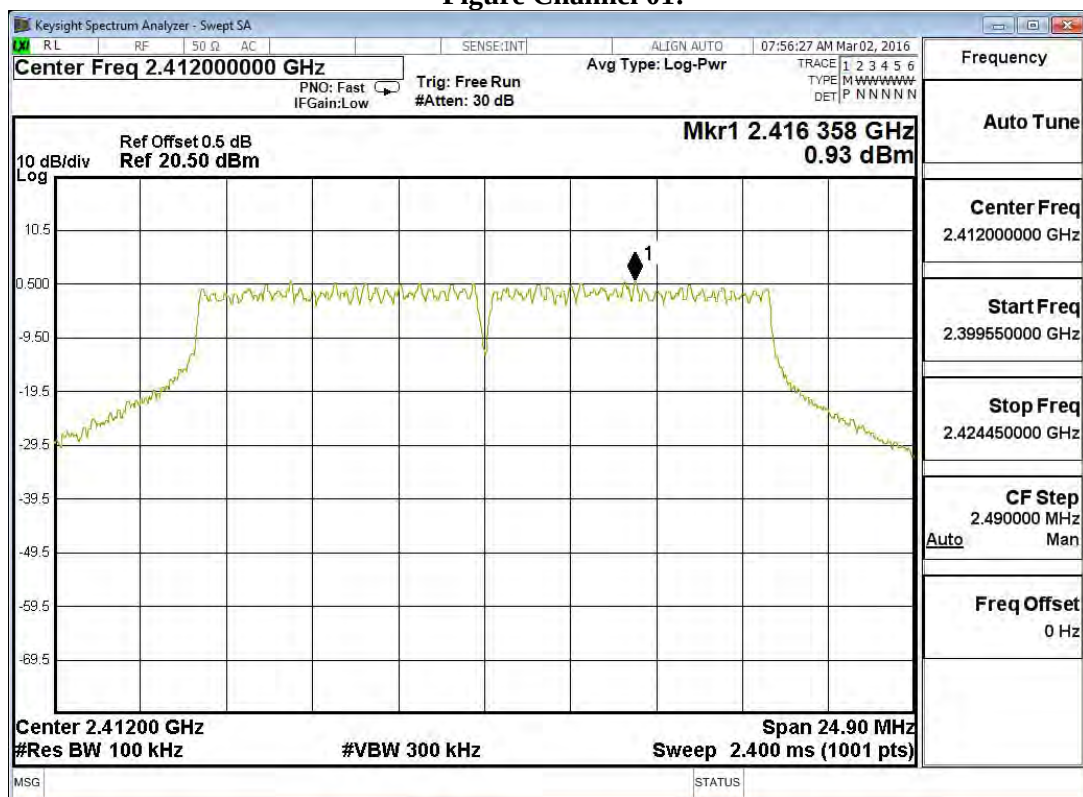


Figure Channel 06:

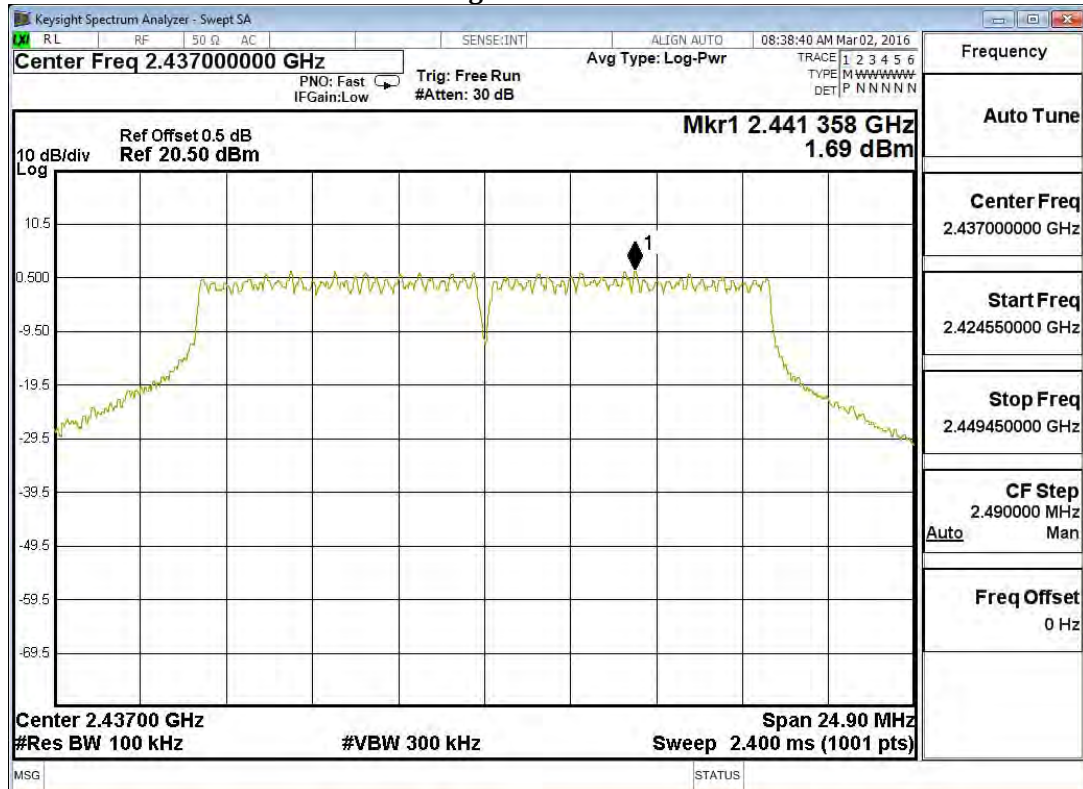
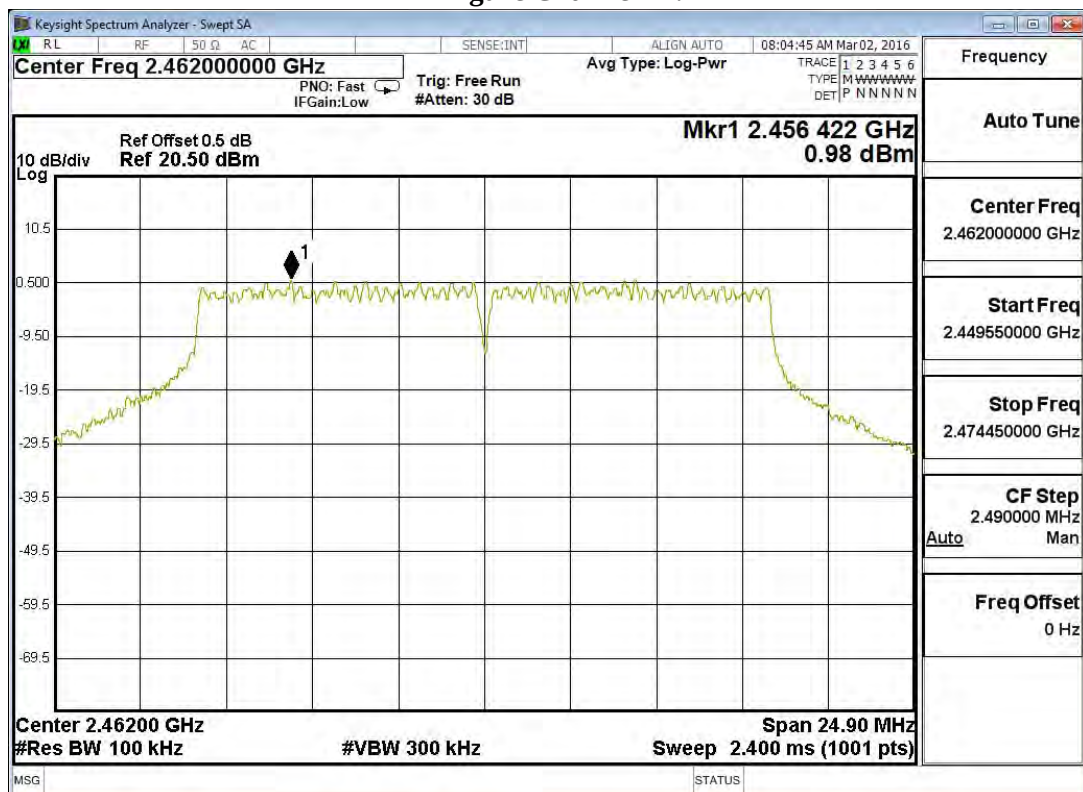


Figure Channel 11:



Product : Alcatel Wi-Fi camera
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 3: Transmit (802.11n MCS0 7.2Mbps 20M-BW)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
01	2412	-0.390	< 8dBm	Pass
06	2437	-0.160	< 8dBm	Pass
11	2462	0.020	< 8dBm	Pass

Figure Channel 01:

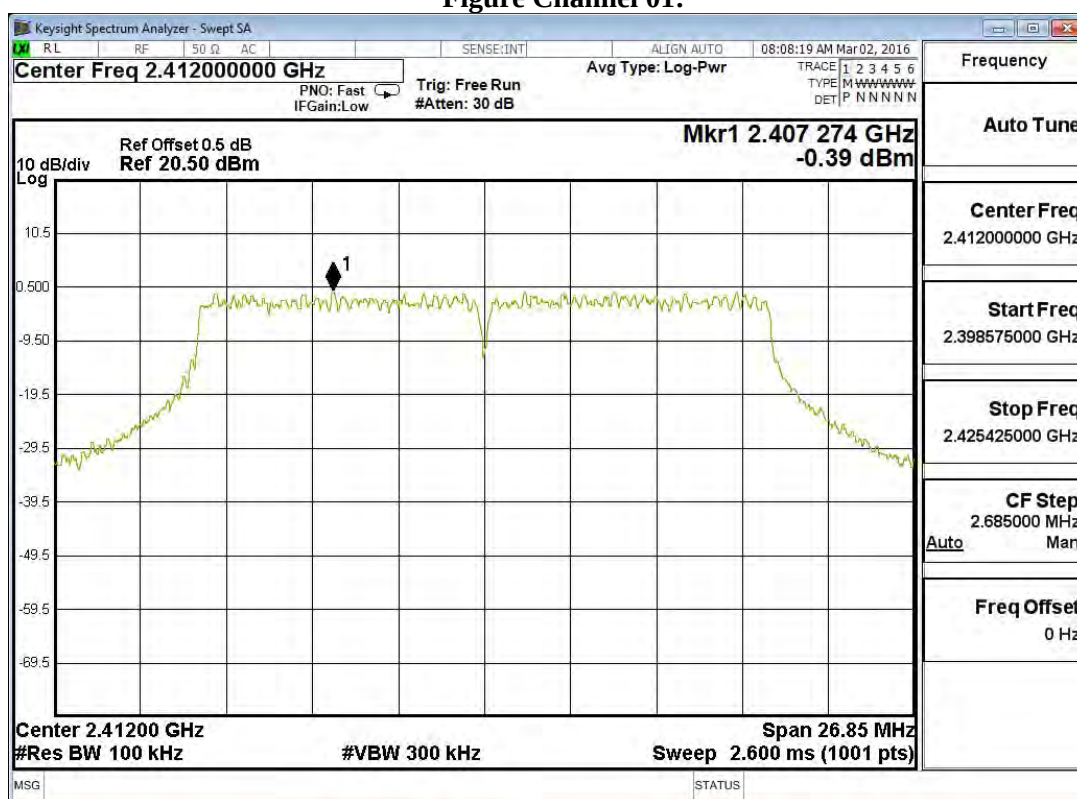


Figure Channel 06:

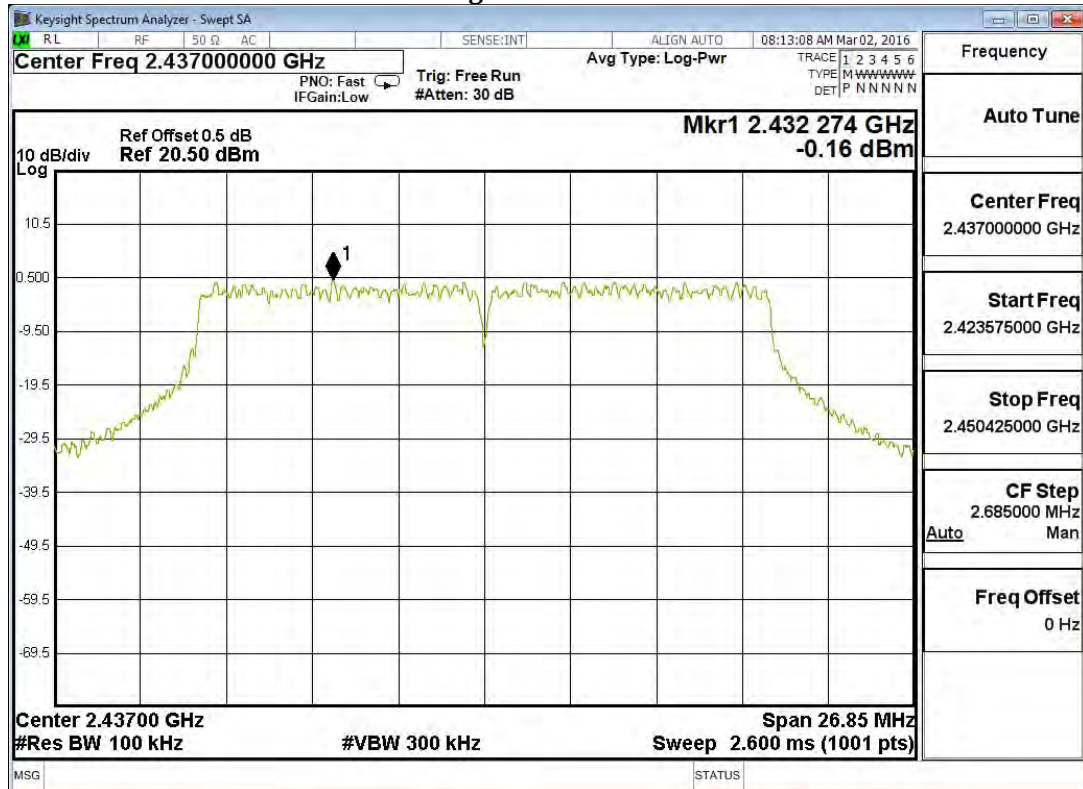
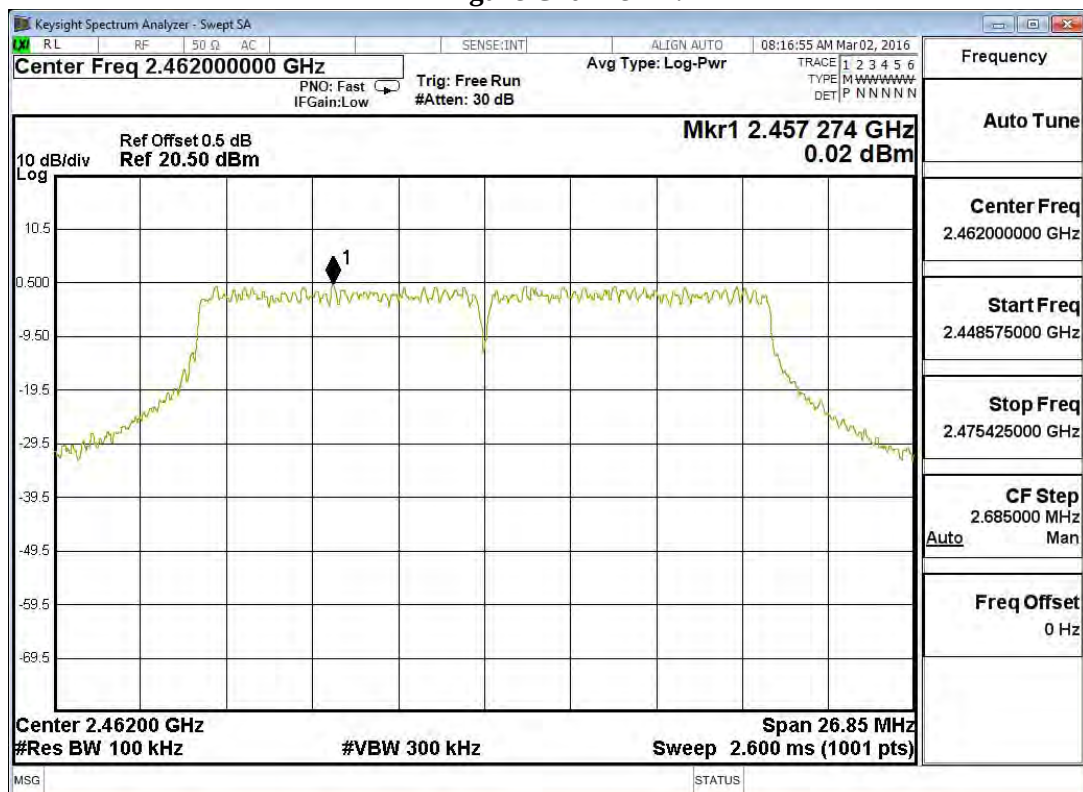


Figure Channel 11:



Product : Alcatel Wi-Fi camera
Test Item : Power Density Data
Test Site : No.3 OATS
Test Mode : Mode 4: Transmit (802.11n MCS0 15Mbps 40M-BW)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
03	2422	-3.930	< 8dBm	Pass
06	2437	-2.470	< 8dBm	Pass
09	2452	-3.120	< 8dBm	Pass

Figure Channel 03:

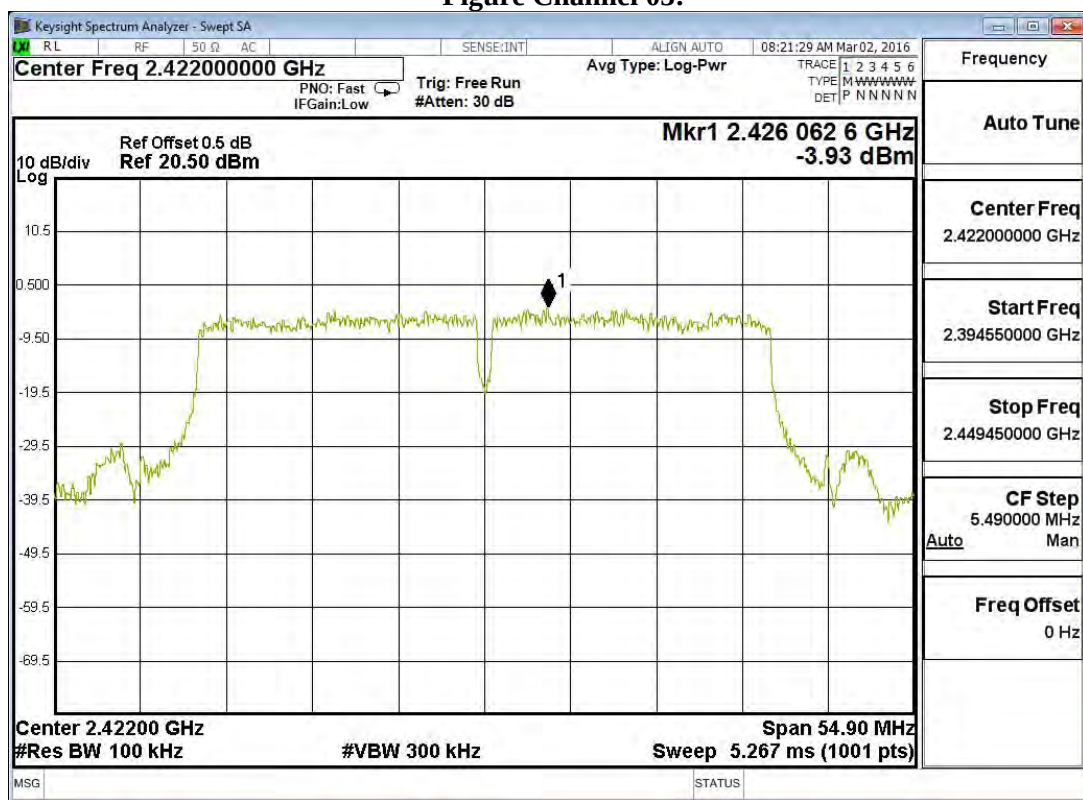


Figure Channel 06:

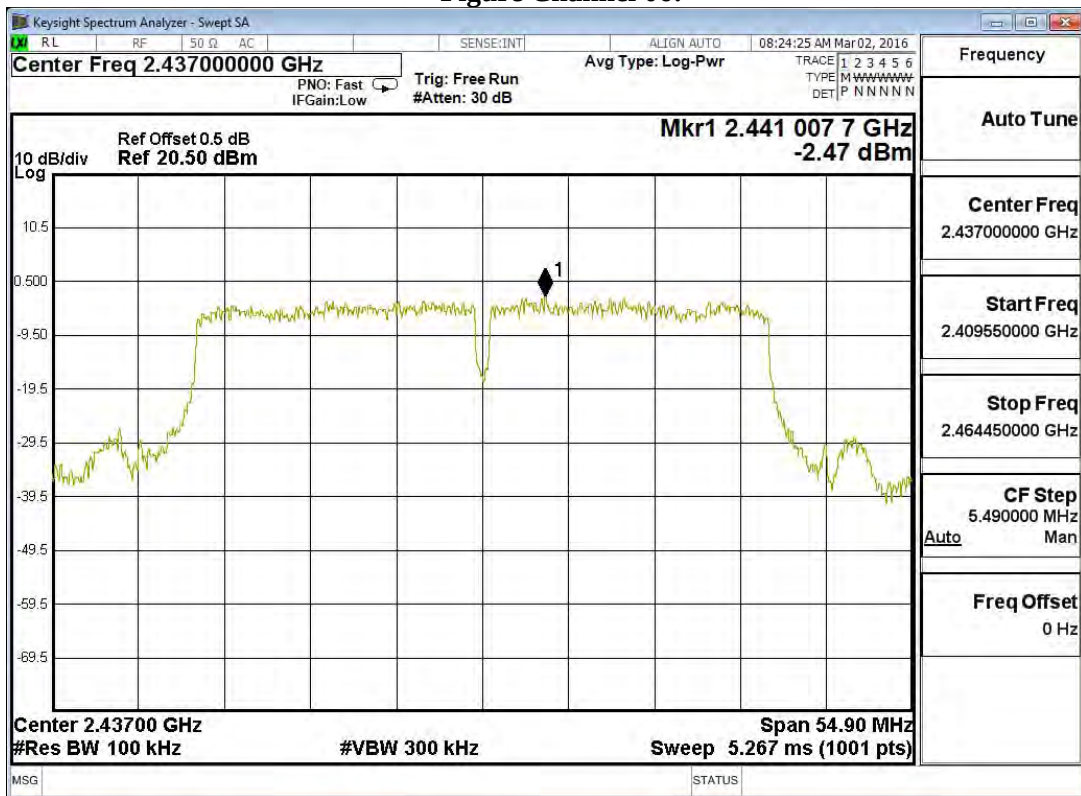
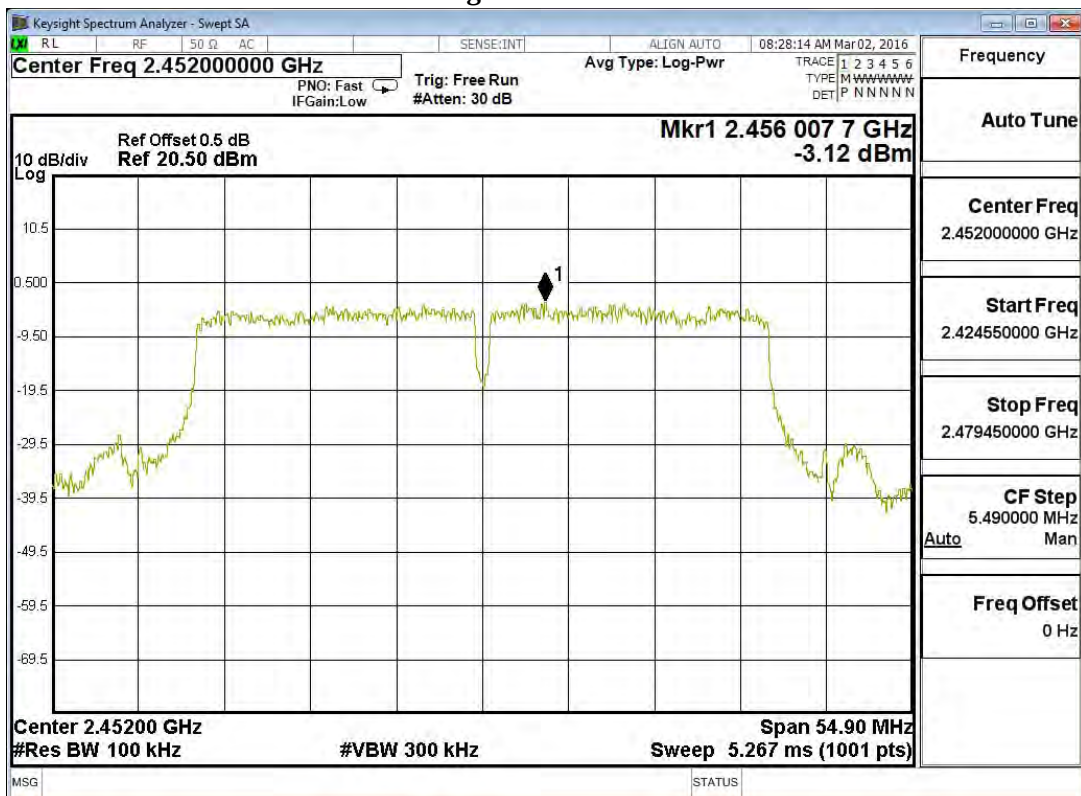


Figure Channel 09:



9. EMI Reduction Method During Compliance Testing

No modification was made during testing.

Attachment 1: EUT Test Photographs

Attachment 2: EUT Detailed Photographs