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FCC TEST REPORT

Report No: STS1502007F03

Issued for

MAXWEST TELECOM

11037 Warner Ave #201 Fountain Valley, Ca, 92708
USA

Product Name:	Tablet
Brand Name:	MAXWEST
Model No.:	Nitro Phablet 71
Series Model:	N/A
FCC ID:	ONGNITROTAB71
Test Standard:	FCC Part 15.247(2014)

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Shenzhen STS Test Services Co., Ltd.

1/F, Building B, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China

TEL: +86-755 3688 6288 FAX: +86-755 3688 6277 E-mail: sts@stsapp.com





TEST RESULT CERTIFICATION

Applicant's name: MAXWEST TELECOM
Address: 11037 Warner Ave #201 Fountain Valley, Ca, 92708 USA
Manufacture's Name: MAXWEST TELECOM
Address: 11037 Warner Ave #201 Fountain Valley, Ca, 92708 USA

Product description

Product name: Tablet
Model and/or type reference ..: Nitro Phablet 71
Serial Model: N/A
Standards: FCC Part15.247(2014)

Test procedure: KDB558074v03r02,ANSI C63.10-2009

This device described above has been tested by STS, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test:
Date (s) of performance of tests: 01 Feb. 2015 ~08 Feb. 2015
Date of Issue: 09 Feb. 2015
Test Result: **Pass**

Testing Engineer :

(Jin Ming)

Report writing :

(Sunny zheng)

Authorized Signatory :

(Bovey Yang)





Table of Contents	Page
1. SUMMARY OF TEST RESULTS	5
1.1 TEST FACILITY	5
1.2 MEASUREMENT UNCERTAINTY	5
2. GENERAL INFORMATION	6
2.1 GENERAL DESCRIPTION OF EUT	6
2.2 DESCRIPTION OF TEST MODES	8
2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST	9
2.4 DESCRIPTION OF SUPPORT UNITS	10
2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS	11
3. EMC EMISSION TEST	12
3.1 CONDUCTED EMISSION MEASUREMENT	12
3.1.1 POWER LINE CONDUCTED EMISSION LIMITS	12
3.1.2 TEST RESULTS	13
3.2 RADIATED EMISSION MEASUREMENT	15
3.2.1 RADIATED EMISSION LIMITS	15
3.2.2 TEST PROCEDURE	16
3.2.3 TEST SETUP	17
3.2.4 EUT OPERATING CONDITIONS	18
3.2.5 TEST RESULT	19
3.2.6 TEST RESULTS (BAND EDGE)	34
4. CONDUCTED SPURIOUS EMISSIONS	42
4.1 APPLIED PROCEDURES / LIMIT	42
4.2 TEST PROCEDURE	42
4.3 DEVIATION FROM STANDARD	42
4.4 TEST SETUP	42
4.5 EUT OPERATION CONDITIONS	42
4.6 TEST RESULTS	43
5. POWER SPECTRAL DENSITY TEST	55
5.1 APPLIED PROCEDURES / LIMIT	55
5.2 TEST PROCEDURE	55
5.3 DEVIATION FROM STANDARD	55
5.4 TEST SETUP	55
5.5 EUT OPERATION CONDITIONS	55
5.6 TEST RESULTS	56



Table of Contents	Page
6. BANDWIDTH TEST	64
6.1 APPLIED PROCEDURES / LIMIT	64
6.2 TEST PROCEDURE	64
6.3 DEVIATION FROM STANDARD	64
6.4 TEST SETUP	64
6.5 EUT OPERATION CONDITIONS	64
6.6 TEST RESULTS	65
7. PEAK OUTPUT POWER TEST	73
7.1 APPLIED PROCEDURES / LIMIT	73
7.2 TEST PROCEDURE	73
7.3 DEVIATION FROM STANDARD	73
7.4 TEST SETUP	73
7.4 EUT OPERATION CONDITIONS	73
7.5 TEST RESULTS	74
8. ANTENNA REQUIREMENT	75
8.1 STANDARD REQUIREMENT	75
8.2 EUT ANTENNA	75
APPENDIX - PHOTOS OF TEST SETUP	76



1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b) (reference KDB 558074 d05 v02. /9.1.2)	Peak Output Power	PASS	
15.247 (c)	Radiated Spurious Emission	PASS	
15.247 (d)	Conducted Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.205	Band Edge Emission	PASS	
15.203	Antenna Requirement	PASS	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

1.1 TEST FACILITY

Shenzhen STS Test Services Co., Ltd.

Add. : 1/F, Building 2, Zhuoke Science Park, Chongqing Road, Fuyong, Baoan District, Shenzhen, China.

FCC Registration No.: 842334; IC Registration No.: 12108A-1

1.2 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 1.38\text{dB}$
2	RF power,conducted	$\pm 0.16\text{dB}$
3	Spurious emissions,conducted	$\pm 0.21\text{dB}$
4	All emissions,radiated(<1G)	$\pm 4.68\text{dB}$
5	All emissions,radiated(>1G)	$\pm 4.89\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$



2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet	
Trade Name	MAXWEST	
Model Name	Nitro Phablet 71	
Serial Model	N/A	
Model Difference	N/A	
Product Description	The EUT is a Tablet	
	Operation Frequency:	802.11b/g/n 20: 2412~2462 MHz 802.11n 40: 2422~2452MHz
	Modulation Type:	DSSS(DBPSK/DQPSK/CCK);OFDM(BPSK/QSK/16-QAM/64-QAM)
	Bit Rate of Transmitter	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20/40MHz):150/144.44/130/117/115.56/104/86.67/78/52/6.5Mbps
	Number Of Channel	802.11b/g/n20: 11CH 802.11n 40: 7CH
	Antenna Designation:	Please see Note 3.
	Antenna Gain (dBi)	0 dBi
Channel List	Please refer to the Note 2.	
Ratings	DC 3.7V from battery	
Adapter	Power supply and ADP (rating) : Input:100-240V AC,50/60Hz 0.5A Output:5V,2A	
Battery	Rated Voltage: 3.7V Charge Limit: 4.2V capacity :2800mAh	
Hardware version number	KT780B_MB_V1.1	
Software versioning number	Nitro_tab71_eng4.4.2_20150101V1	
Connecting I/O Port(s)	Please refer to the User's Manual	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%



3.

Channel List for 802.11b/g/n(20MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452		

Channel List for 802.11n(40MHz)							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	06	2437	09	2452		
04	2427	07	2442				
05	2432	08	2447				

4. Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
A	N/A	N/A	PIFA Antenna	NA	0	N/A



2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n(20)CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

For Conducted Emission	
Final Test Mode	Description
Mode 5	Link Mode

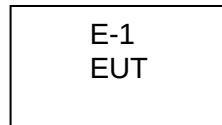
For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b CH1/ CH6/ CH11
Mode 2	802.11g CH1/ CH6/ CH11
Mode 3	802.11n CH1/ CH6/ CH11
Mode 4	802.11n(40) CH3/ CH6/ CH9
Mode 5	Link Mode

Note:

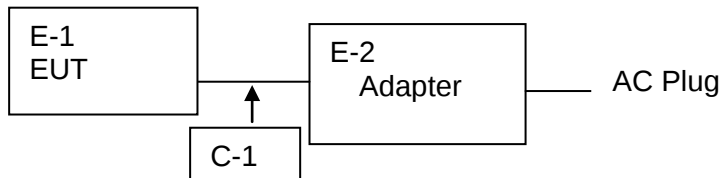
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TEST

Radiated Spurious Emission Test



Conducted Emission Test





2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E-1	Tablet	MAXWEST	Nitro Phablet 71	N/A	EUT
E-2	Adapter	MAXWEST	Nitro Phablet 71	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.5m	

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Spectrum Analyzer	Agilent	E4407B	MY50140340	2014.10.25	2015.10.24
Test Receiver	R&S	ESCI	101427	2014.10.25	2015.10.24
Bilog Antenna	TESEQ	CBL6111D	34678	2014.10.27	2015.10.26
Horn Antenna	R&S	9120D	152265	2014.10.27	2015.10.26
Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2014.07.06	2015.07.05
Amplifier	Agilent	8449B	60538	2014.10.25	2015.10.24
Loop Antenna	ARA	PLA-1030/B	1029	2014.06.08	2015.06.07
Power Meter	Anritsu	ML2495A	1204003	2014.10.25	2015.10.24
Power Sensor	Anritsu	MA2411B	100309	2014.10.25	2015.10.24
Low frequency cable	N/A	R01	N/A	2014.10.25	2015.10.24
RF Cable	MURATA	R-03	N/A	2014.10.25	2015.10.24
High frequency cable	N/A	R02	N/A	2014.10.25	2015.10.24

Conduction Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	102086	2014.10.25	2015.10.24
LISN	R&S	ENV216	101242	2014.10.25	2015.10.24
LISN	EMCO	3810/2NM	000-23625	2014.10.25	2015.10.24
Conduction Cable	HUBER+SUHNER	C01	N/A	2014.10.25	2015.10.24



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

Operating frequency band. In case the emission fall within the restricted band specified on Part 15.247&207(a) limit in the table below has to be followed.

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

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

Note:

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

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz



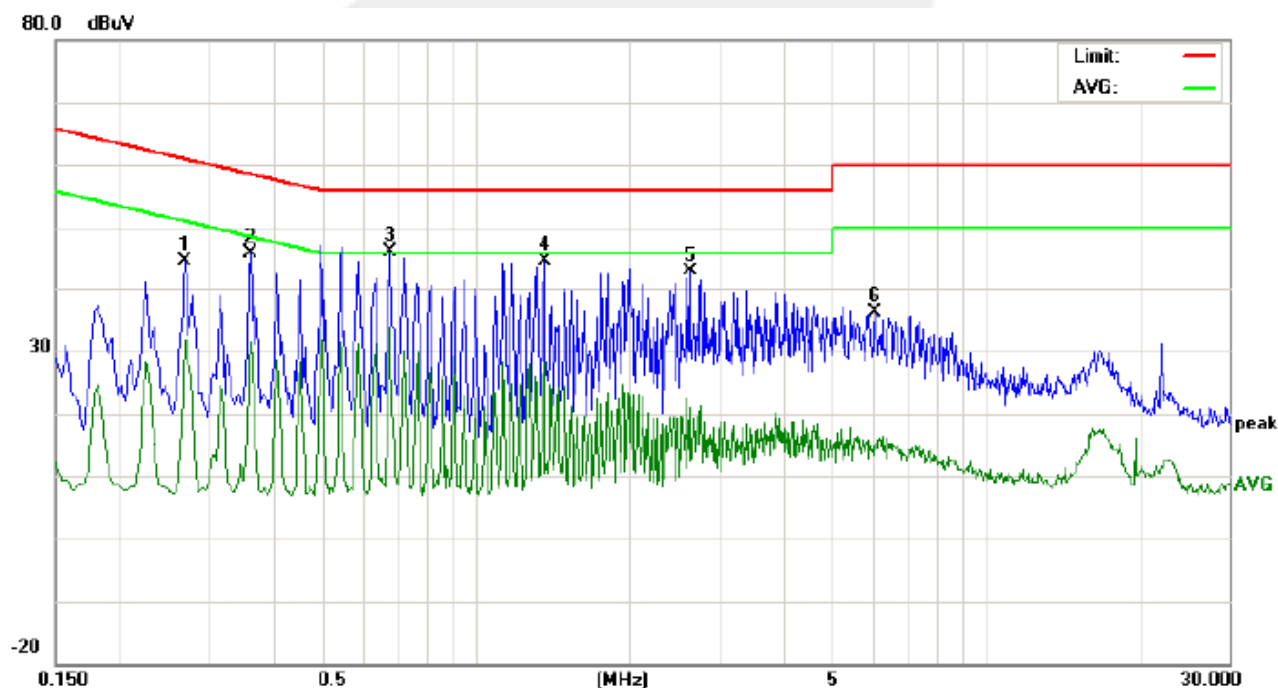
3.1.2 TEST RESULTS

EUT :	Tablet	Model Name. :	Nitro Phablet 71
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2700	34.34		21.41	10.28	44.62		31.69	61.12	51.12	-16.50	-19.43	P	
2	0.3620	35.63		20.96	10.31	45.94		31.27	58.68	48.68	-12.74	-17.41	P	
3	0.6820	35.76		21.09	10.34	46.10		31.43	56.00	46.00	-9.90	-14.57	P	
4	1.3619	34.25		17.93	10.38	44.63		28.31	56.00	46.00	-11.37	-17.69	P	
5	2.6300	32.34		10.36	10.46	42.80		20.82	56.00	46.00	-13.20	-25.18	P	
6	6.0739	25.89		4.72	10.28	36.17		15.00	60.00	50.00	-23.83	-35.00	P	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



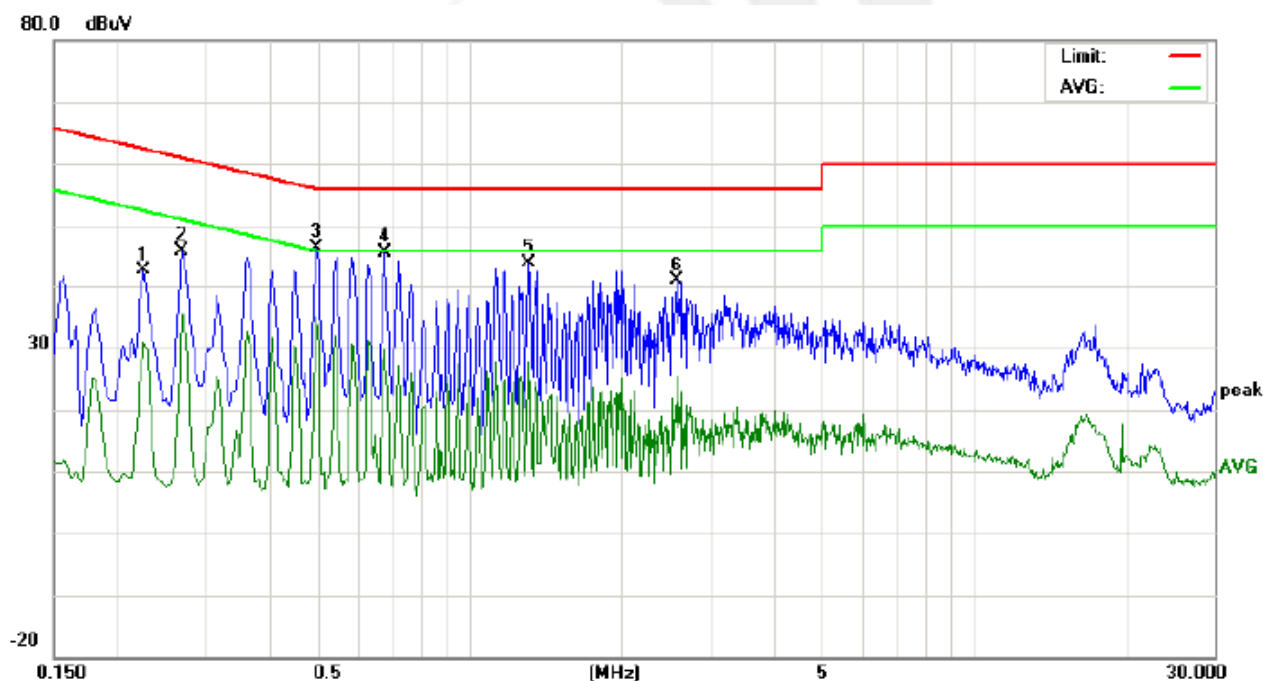


EUT :	Tablet	Model Name. :	Nitro Phablet 71
Temperature :	23 °C	Relative Humidity :	50%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5V from Adapter AC 120V/60Hz	Test Mode :	Link Mode

No.	Freq. (MHz)	Reading_Level (dBuV)			Correct Factor dB	Measurement (dBuV)			Limit (dBuV)		Margin (dB)		P/F	Comment
		Peak	QP	AVG		Peak	QP	AVG	QP	AVG	QP	AVG		
1	0.2260	32.45		20.65	10.24	42.69		30.89	62.59	52.59	-19.90	-21.70	P	
2	0.2700	35.60		25.20	10.28	45.88		35.48	61.12	51.12	-15.24	-15.64	P	
3	0.4980	35.95		24.48	10.40	46.35		34.88	56.03	46.03	-9.68	-11.15	P	
4	0.6820	35.20		17.72	10.34	45.54		28.06	56.00	46.00	-10.46	-17.94	P	
5	1.3140	33.44		17.28	10.38	43.82		27.66	56.00	46.00	-12.18	-18.34	P	
6	2.5820	30.55		14.88	10.45	41.00		25.33	56.00	46.00	-15.00	-20.67	P	

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.





3.2 RADIATED EMISSION MEASUREMENT

3.2.1 RADIATED EMISSION LIMITS

6 dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on Part 15247&205(a), then the Part 15 247&209(a) limit in the table below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (30MHz - 1000MHz)

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

Spectrum Parameter	Setting
Attenuation	Auto
Detector	Peak
Start Frequency	1000 MHz(Peak/AV)
Stop Frequency	10th carrier harmonic(Peak/AV)
RB / VB (emission in restricted band)	1 MHz / 1 MHz, AV=1 MHz / 10Hz

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

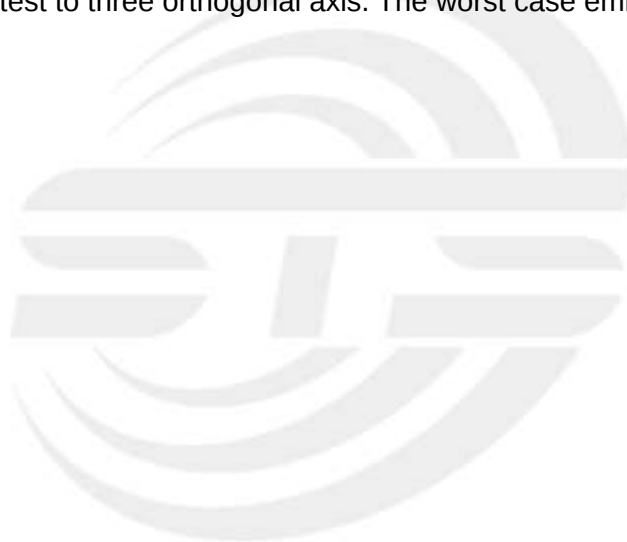


3.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

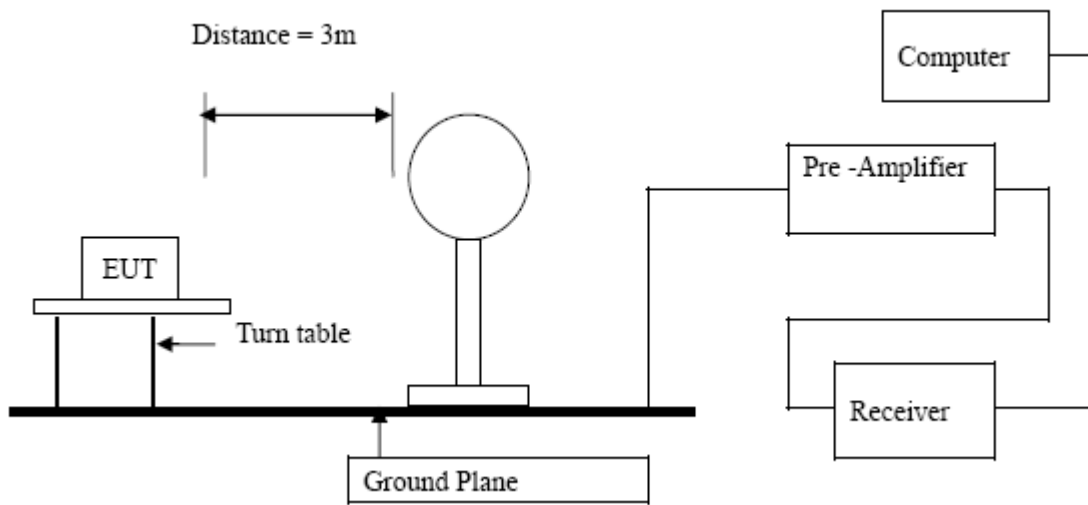
Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

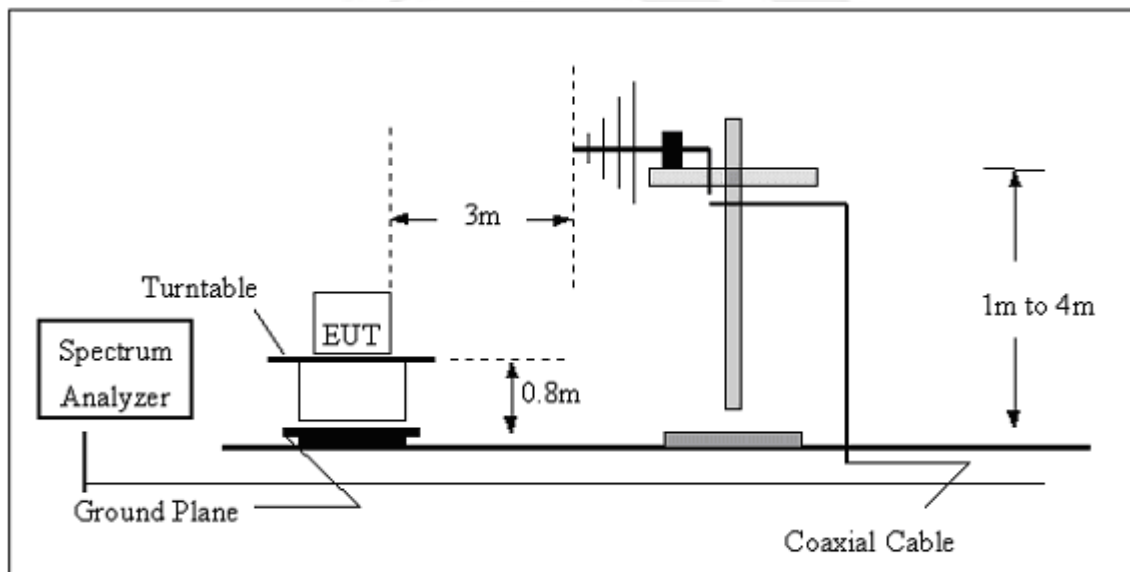


3.2.3 TEST SETUP

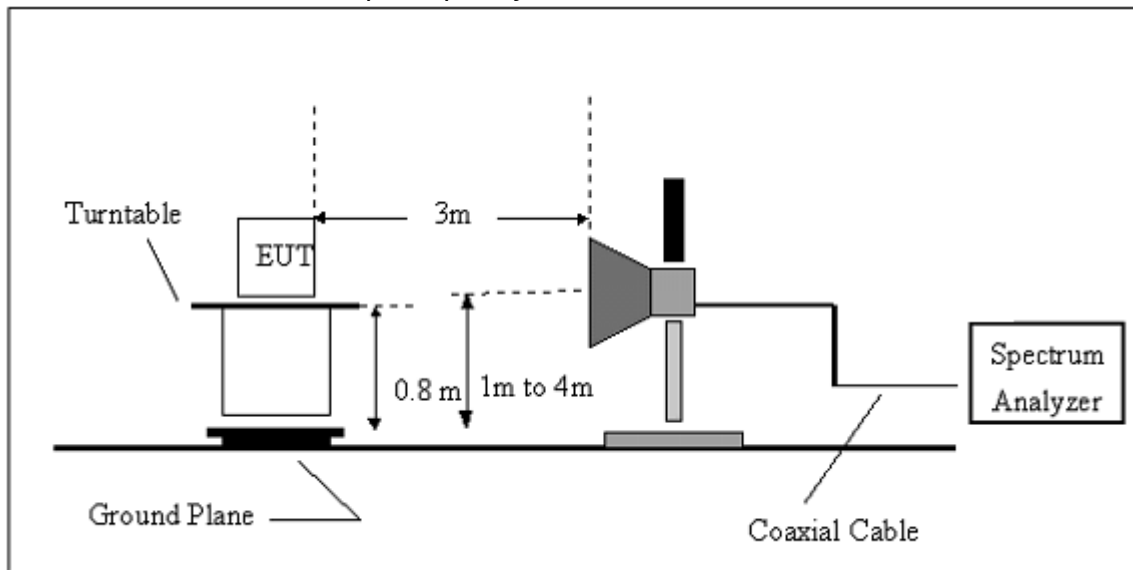
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



3.2.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



3.2.5 TEST RESULT

9KHz-30MHz

EUT:	Tablet	Model Name. :	Nitro Phablet 71
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Link mode	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	PASS
--	--	--	--	PASS

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor = $40 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuV) + distance extrapolation factor.



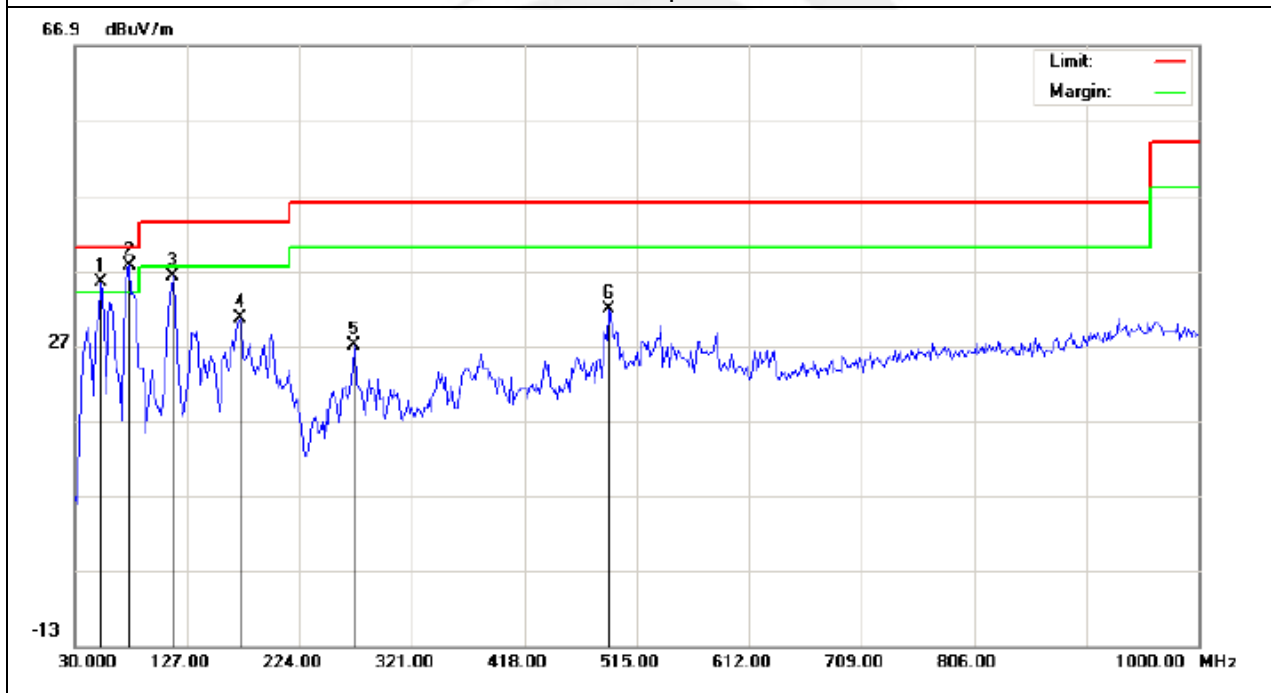
30MHz - 1000MHz

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Link mode	Polarization :	Horizontal

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	52.6333	24.10	11.22	35.32	40.00	-4.68	peak			
2	*	76.8833	27.70	9.94	37.64	40.00	-2.36	peak			
3		114.0667	24.74	11.45	36.19	43.50	-7.31	peak			
4		172.2667	17.91	12.72	30.63	43.50	-12.87	peak			
5		270.8833	12.39	14.53	26.92	46.00	-19.08	peak			
6		490.7500	10.78	21.03	31.81	46.00	-14.19	peak			

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.



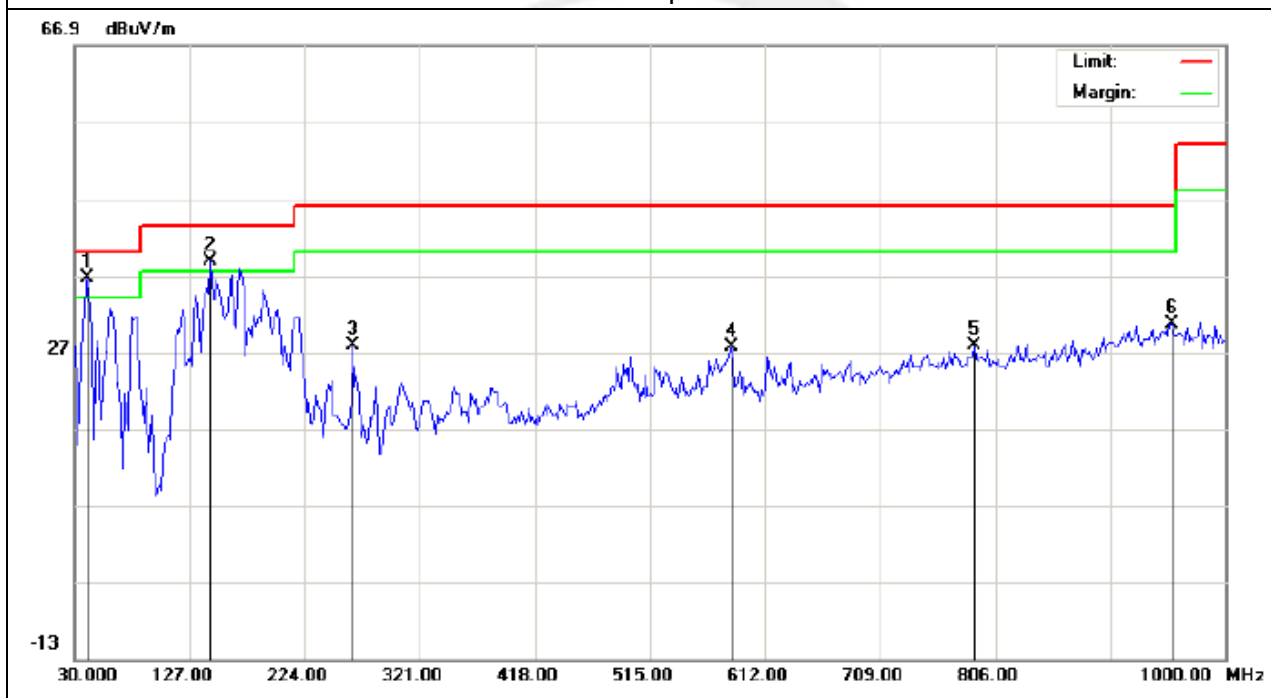


EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	Link mode	Polarization :	Vertical

No.	Mk	Freq. MHz	Reading dBuV	Factor dB/m	Measurement dBuV/m	Limit dBuV/m	Over dB	Detector	Antenna Height cm	Table Degree degree	Comment
1	*	41.3167	27.70	8.81	36.51	40.00	-3.49	peak			
2	!	144.7833	23.51	15.23	38.74	43.50	-4.76	peak			
3		264.4167	13.47	14.34	27.81	46.00	-18.19	peak			
4		584.5167	5.01	22.65	27.66	46.00	-18.34	peak			
5		788.2167	0.60	27.16	27.76	46.00	-18.24	peak			
6		954.7333	0.71	29.95	30.66	46.00	-15.34	peak			

Remark:

1. Factor = Antenna Factor + Cable Loss – Pre-amplifier.





Above 1000MHz

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.088	46.56	10.44	57	74	-17	peak
4824.088	31.82	10.44	42.26	54	-11.74	AVG
7236.084	43.59	12.39	55.98	74	-18.02	peak
7236.084	33.73	12.39	46.12	54	-7.88	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11b Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.129	49.54	10.39	59.93	74	-14.07	peak
4824.074	33.67	10.39	44.06	54	-9.94	AVG
7236.144	48.81	12.68	61.49	74	-12.51	peak
7236.135	30.49	12.68	43.17	54	-10.83	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.050	49.66	10.39	60.05	74	-13.95	peak
4874.045	33.76	10.39	44.15	54	-9.85	AVG
7311.149	48.59	12.68	61.27	74	-12.73	peak
7311.132	30.49	12.68	43.17	54	-10.83	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11b Mode)/2437	Polarization :	Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Type
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
4874.049	49.79	10.39	60.18	74	-13.82	peak
4874.110	33.62	10.39	44.01	54	-9.99	AVG
7311.115	48.33	12.68	61.01	74	-12.99	peak
7311.107	30.45	12.68	43.13	54	-10.87	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.067	49.78	10.39	60.17	74	-13.83	peak
4924.095	33.52	10.39	43.91	54	-10.09	AVG
7386.068	38.38	12.68	51.06	74	-22.94	peak
7386.090	30.23	12.68	42.91	54	-11.09	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11b Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.074	49.71	10.39	60.1	74	-13.9	peak
4924.086	33.82	10.39	44.21	54	-9.79	AVG
7386.082	48.64	12.68	61.32	74	-12.68	peak
7386.144	30.39	12.68	43.07	54	-10.93	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.131	46.48	10.44	56.92	74	-17.08	peak
4824.058	32.57	10.44	43.01	54	-10.99	AVG
7236.069	42.42	12.39	54.81	74	-19.19	peak
7236.065	28.51	12.39	40.9	54	-13.1	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1 (802.11g Mode)/2412	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.060	46.73	10.44	57.17	74	-16.83	peak
4824.075	36.34	10.44	46.78	54	-7.22	AVG
7236.064	42.67	12.39	55.06	74	-18.94	peak
7236.093	28.97	12.39	41.36	54	-12.64	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.125	45.84	10.4	56.24	74	-17.76	peak
4874.043	26.53	10.4	36.93	54	-17.07	AVG
7311.101	44.18	12.75	56.93	74	-17.07	peak
7311.162	25.84	12.75	38.59	54	-15.41	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6 (802.11g Mode)/2437	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.156	48.63	10.4	59.03	74	-14.97	peak
4874.090	35.51	10.4	45.91	54	-8.09	AVG
7311.122	48.82	12.75	61.57	74	-12.43	peak
7311.117	33.89	12.75	46.64	54	-7.36	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11 (802.11g Mode)/2462	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.039	49.68	10.39	60.07	74	-13.93	peak
4924.137	33.27	10.39	43.66	54	-10.34	AVG
7386.109	48.59	12.68	61.27	74	-12.73	peak
7386.095	30.74	12.68	43.42	54	-10.58	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)/2462	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.056	46.29	10.39	56.68	74	-17.32	peak
4924.064	34.57	10.39	44.96	54	-9.04	AVG
7386.099	46.39	12.68	59.07	74	-14.93	peak
7386.060	33.45	12.68	46.13	54	-7.87	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.116	46.51	10.44	56.95	74	-17.05	peak
4824.068	36.76	10.44	47.2	54	-6.8	AVG
7236.116	42.21	12.39	54.6	74	-19.4	peak
7236.038	28.63	12.39	41.02	54	-12.98	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4824.075	46.73	10.44	57.17	74	-16.83	peak
4824.059	37.45	10.44	47.89	54	-6.11	AVG
7236.052	51.37	12.39	63.76	74	-10.24	peak
7236.057	31.27	12.39	43.66	54	-10.34	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.067	51.49	10.4	61.89	74	-12.11	peak
4874.066	32.28	10.4	42.68	54	-11.32	AVG
7311.063	48.37	12.75	61.12	74	-12.88	peak
7311.126	31.65	12.75	44.4	54	-9.6	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.109	48.89	10.4	59.29	74	-14.71	peak
4874.086	32.61	10.4	43.01	54	-10.99	AVG
7311.113	46.64	12.75	59.39	74	-14.61	peak
7311.113	26.38	12.75	39.13	54	-14.87	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.100	50.45	10.39	60.84	74	-13.16	peak
4924.087	35.31	10.39	45.7	54	-8.3	AVG
7386.085	43.88	12.68	56.56	74	-17.44	peak
7386.138	31.49	12.68	44.17	54	-9.83	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4924.086	51.73	10.39	62.12	74	-11.88	peak
4924.082	35.51	10.39	45.9	54	-8.1	AVG
7386.113	42.83	12.68	55.51	74	-18.49	peak
7386.102	28.29	12.68	40.97	54	-13.03	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4844.095	47.43	10.5	57.93	74	-16.07	peak
4844.133	31.79	10.5	42.29	54	-11.71	AVG
7266.241	48.31	12.5	60.81	74	-13.19	peak
7266.299	31.44	12.5	43.94	54	-10.06	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4844.319	47.79	10.5	58.29	74	-15.71	peak
4844.288	30.72	10.5	41.22	54	-12.78	AVG
7266.246	48.63	12.5	61.13	74	-12.87	peak
7266.243	29.54	12.5	42.04	54	-11.96	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.143	48.57	10.4	58.97	74	-15.03	peak
4874.177	33.26	10.4	43.66	54	-10.34	AVG
7311.061	47.48	12.75	60.23	74	-13.77	peak
7311.066	32.89	12.75	45.64	54	-8.36	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH6(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4874.460	47.38	10.4	57.78	74	-16.22	peak
4874.440	41.88	10.4	52.28	54	-1.72	AVG
7311.534	46.37	12.75	59.12	74	-14.88	peak
7311.620	35.49	12.75	48.24	54	-5.76	AVG

Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4904.283	49.43	10.29	59.72	74	-14.28	peak
4904.328	35.86	10.29	46.15	54	-7.85	AVG
7356.215	48.73	12.79	61.52	74	-12.48	peak
7356.228	31.68	12.79	44.47	54	-9.53	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
4904.130	50.84	10.29	61.13	74	-12.87	peak
4904.123	34.39	10.29	44.68	54	-9.32	AVG
7356.366	48.31	12.79	61.1	74	-12.9	peak
7356.395	32.48	12.79	45.27	54	-8.73	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



3.2.6 TEST RESULTS (BAND EDGE)

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	80.82	-13	67.82	74	-6.18	peak
2399.900	61.73	-13	48.73	54	-5.54	AVG
2400.000	82.61	-12.99	69.62	74	-4.41	peak
2400.000	61.35	-12.99	48.36	54	-5.74	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	81.49	-13	68.49	74	-5.51	peak
2399.900	61.82	-13	48.82	54	-5.18	AVG
2400.000	78.46	-12.99	65.47	74	-8.53	peak
2400.000	59.38	-12.99	46.39	54	-7.61	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11b Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	78.38	-12.78	65.6	74	-8.4	peak
2483.500	60.49	-12.78	47.71	54	-6.29	AVG
2483.600	79.23	-12.77	66.46	74	-7.54	peak
2483.600	60.69	-12.78	47.91	54	-6.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11b Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.66	-12.78	64.88	74	-9.12	peak
2483.500	60.32	-12.78	47.54	54	-6.46	AVG
2483.600	78.59	-12.77	65.82	74	-8.18	peak
2483.600	59.38	-12.77	46.61	54	-7.39	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.39	-13	63.39	74	-10.61	peak
2399.900	59.37	-13	46.37	54	-7.63	AVG
2400.000	78.45	-12.99	65.46	74	-8.54	peak
2400.000	58.49	-12.99	45.5	54	-8.5	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11gMode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.58	-13	64.58	74	-9.42	peak
2399.900	60.49	-13	47.49	54	-6.51	AVG
2400.000	78.84	-12.99	65.85	74	-8.15	peak
2400.000	62.39	-12.99	49.4	54	-4.6	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.78	-12.78	65	74	-9	peak
2483.500	63.81	-12.78	51.03	54	-2.97	AVG
2483.600	76.86	-12.77	64.09	74	-9.91	peak
2483.600	61.32	-12.77	48.55	54	-5.45	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11g Mode)	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	76.64	-12.78	63.86	74	-10.14	peak
2483.500	60.62	-12.78	47.84	54	-6.16	AVG
2483.600	75.54	-12.77	62.77	74	-11.23	peak
2483.600	61.86	-12.77	49.09	54	-4.91	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	76.51	-13	63.51	74	-10.49	peak
2399.900	58.46	-13	45.46	54	-8.54	AVG
2400.000	78.58	-12.99	65.59	74	-8.41	peak
2400.000	58.29	-12.99	45.3	54	-8.7	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH1(802.11n Mode)/20M	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.47	-13	64.47	74	-9.53	peak
2399.900	58.52	-13	45.52	54	-8.48	AVG
2400.000	76.69	-12.99	63.7	74	-10.3	peak
2400.000	59.83	-12.99	46.84	54	-7.16	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.68	-12.78	64.9	74	-9.1	peak
2483.500	56.49	-12.78	43.71	54	-10.29	AVG
2483.600	75.59	-12.77	62.82	74	-11.18	peak
2483.600	57.29	-12.77	44.52	54	-9.48	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH11(802.11n Mode)/20MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	73.84	-12.78	61.06	74	-12.94	peak
2483.500	59.49	-12.78	46.71	54	-7.29	AVG
2483.600	73.39	-12.78	60.61	74	-13.39	peak
2483.600	59.69	-12.78	46.91	54	-7.09	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40M	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	77.79	-13	64.79	74	-9.21	peak
2399.900	58.46	-13	45.46	54	-8.54	AVG
2400.000	77.83	-12.99	64.84	74	-9.16	peak
2400.000	59.61	-12.99	46.62	54	-7.38	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH3(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2399.900	80.28	-13	67.28	74	-6.72	peak
2399.900	55.48	-13	42.48	54	-11.52	AVG
2400.000	78.73	-12.99	65.74	74	-8.26	peak
2400.000	55.62	-12.99	42.63	54	-11.37	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						



EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Horizontal

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	76.48	-12.78	63.7	74	-10.3	peak
2483.500	59.33	-12.78	46.55	54	-7.45	AVG
2483.600	77.38	-12.77	64.61	74	-9.39	peak
2483.600	61.29	-12.77	48.52	54	-5.48	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	CH9(802.11n Mode)/40MHz	Polarization :	Vertical

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Value Type
2483.500	77.44	-12.78	64.66	74	-9.34	peak
2483.500	60.41	-12.78	47.63	54	-6.37	AVG
2483.600	78.76	-12.78	65.98	74	-8.02	peak
2483.600	59.82	-12.78	47.04	54	-6.96	AVG
Remark:						
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

4. CONDUCTED SPURIOUS EMISSIONS

4.1 APPLIED PROCEDURES / LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. 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 §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

4.2 TEST PROCEDURE

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	30 MHz to 10th carrier harmonic
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

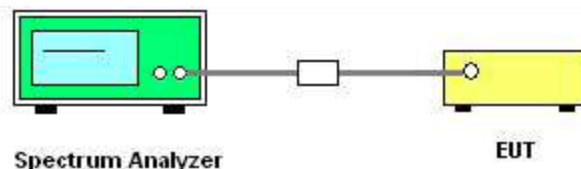
For Band edge

Spectrum Parameter	Setting
Detector	Peak
Start/Stop Frequency	Lower Band Edge: 2300 to 2430 MHz Upper Band Edge: 2450 to 2500 MHz
RB / VB (emission in restricted band)	100 KHz/300 KHz
Trace-Mode:	Max hold

4.3 DEVIATION FROM STANDARD

No deviation.

4.4 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

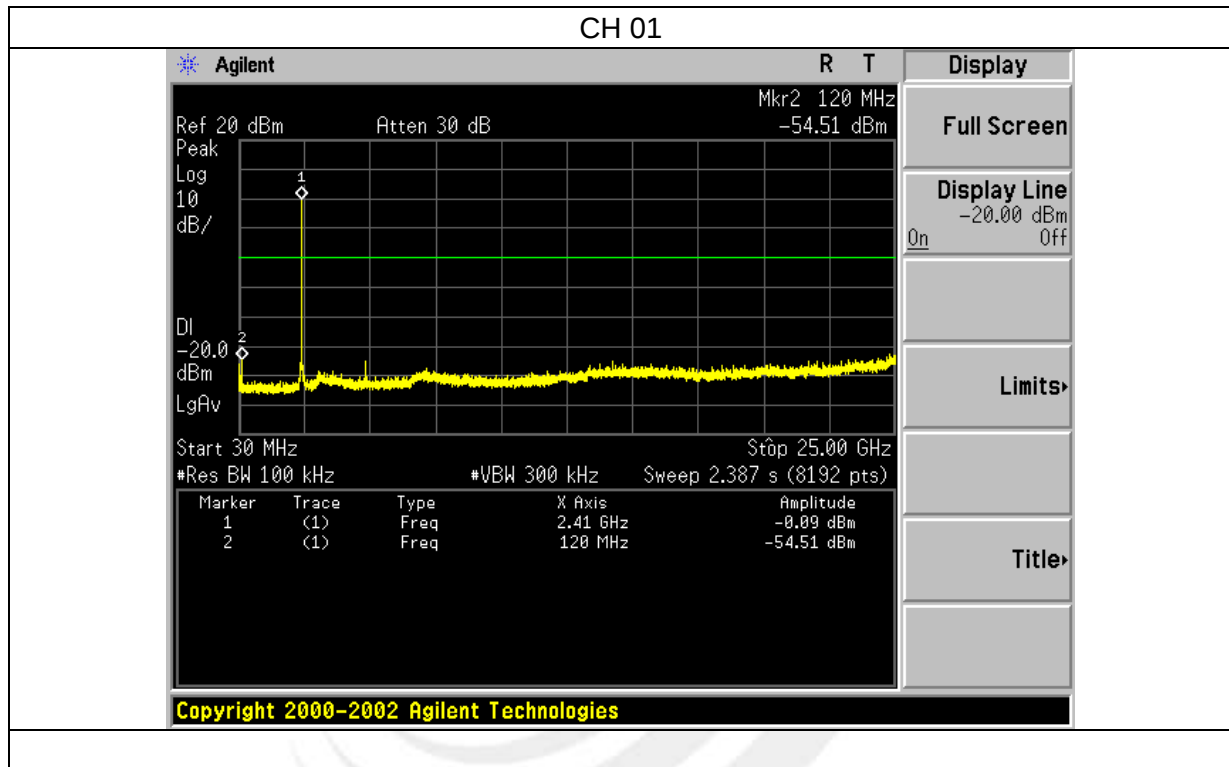
4.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



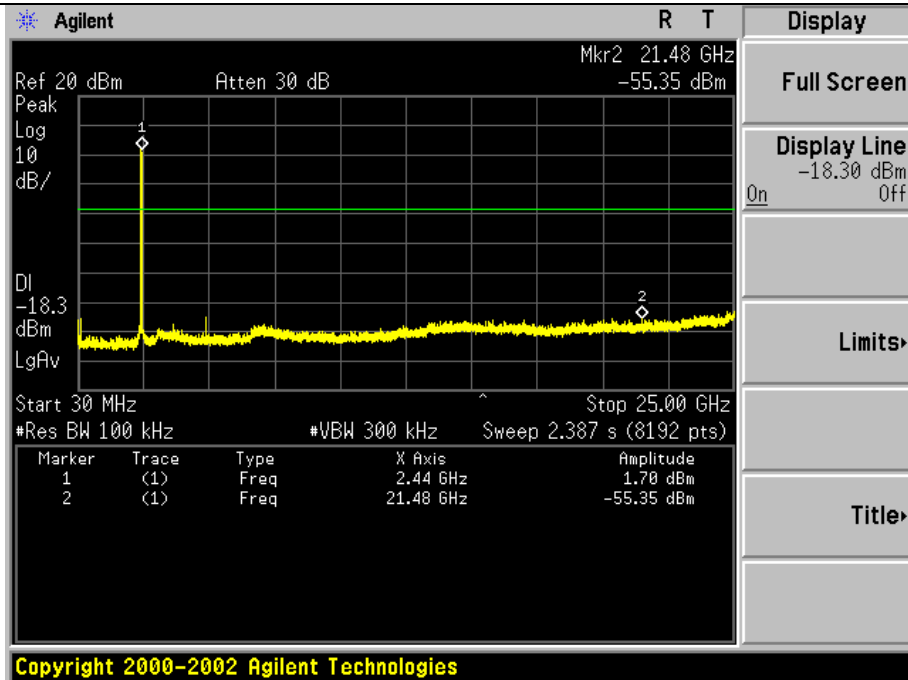
4.6 TEST RESULTS

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX b Mode /CH01, CH06, CH11		

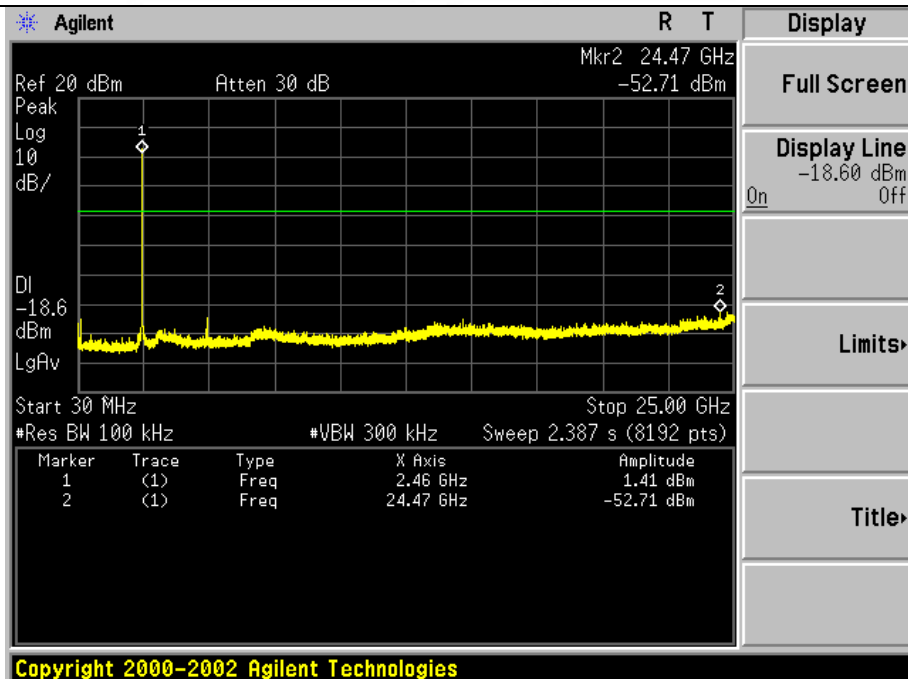




CH 06

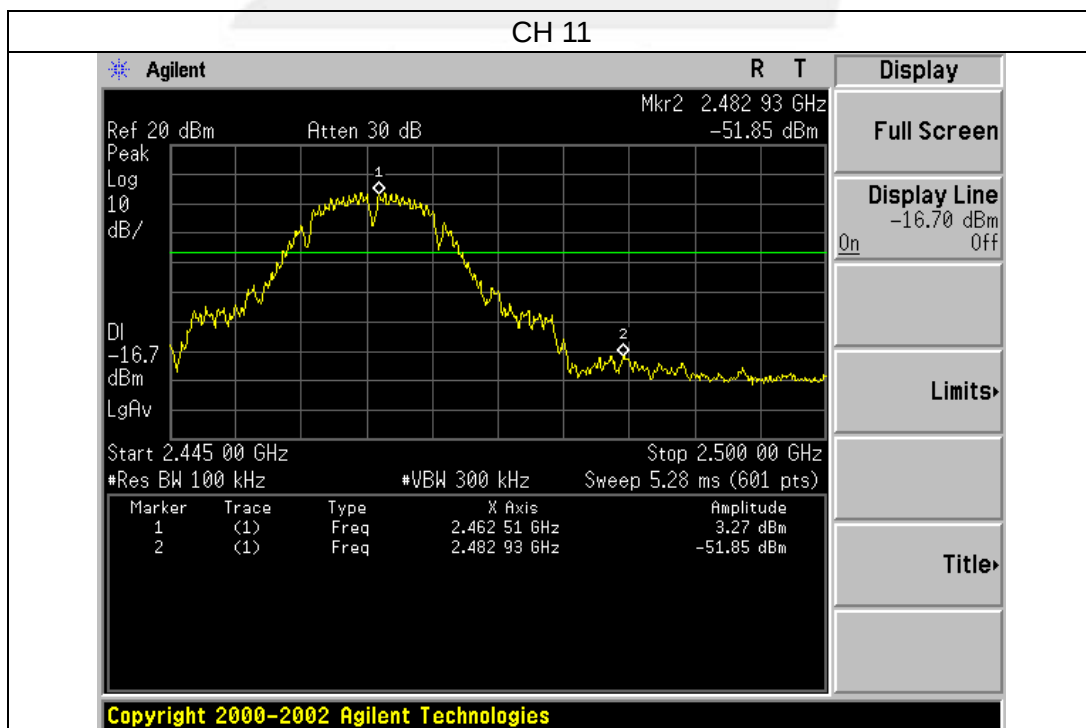
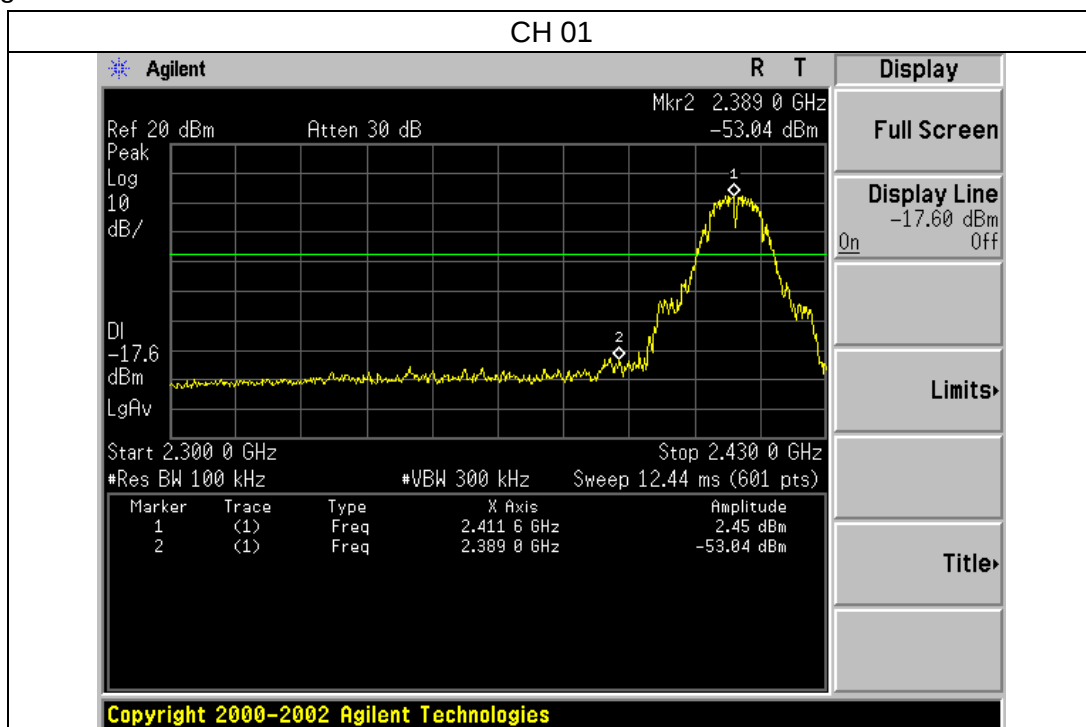


CH 11



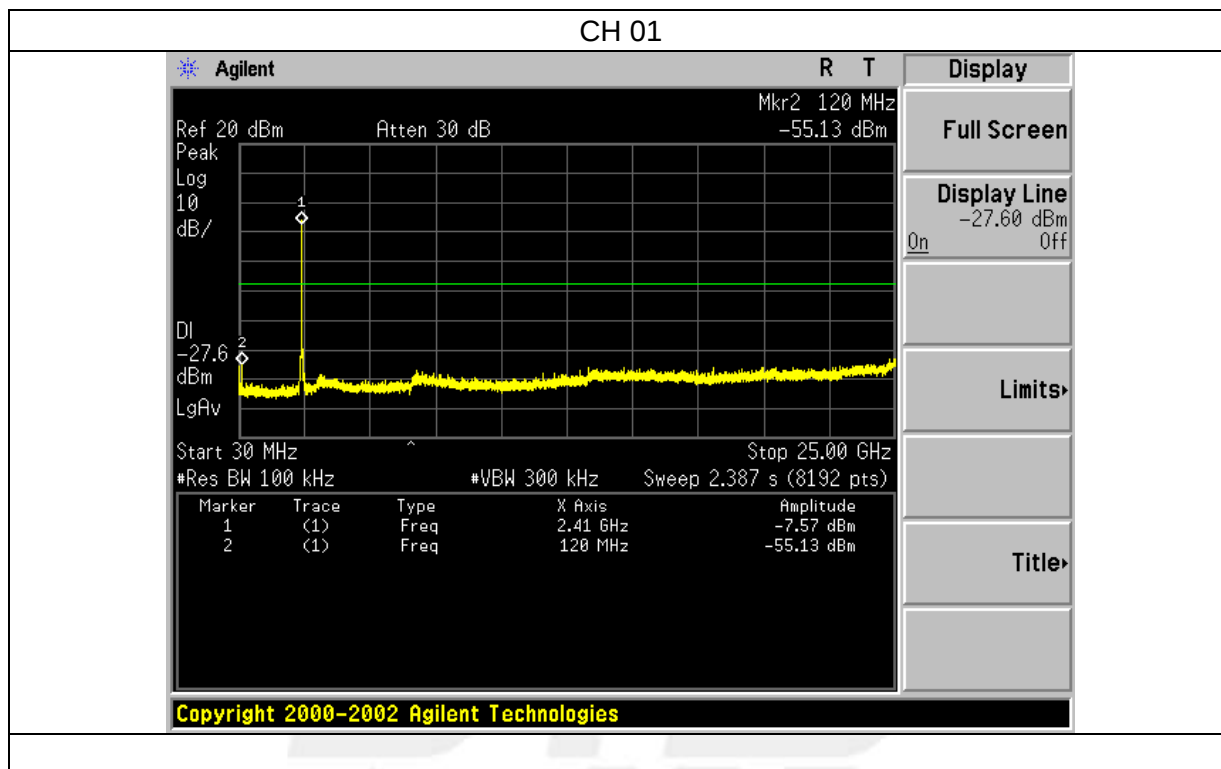


Band edge



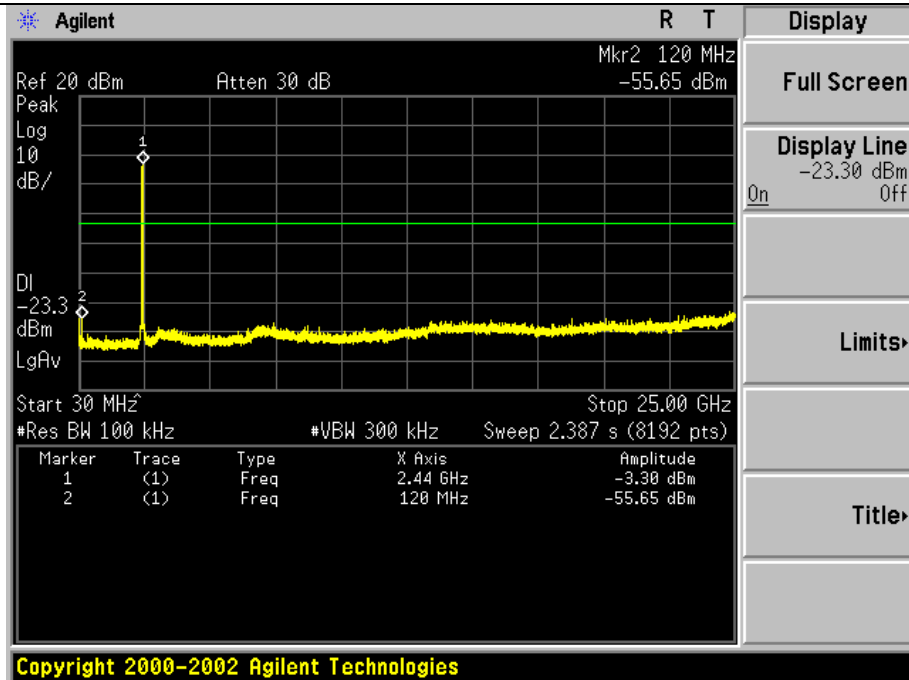


EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX g Mode /CH01, CH06, CH11		

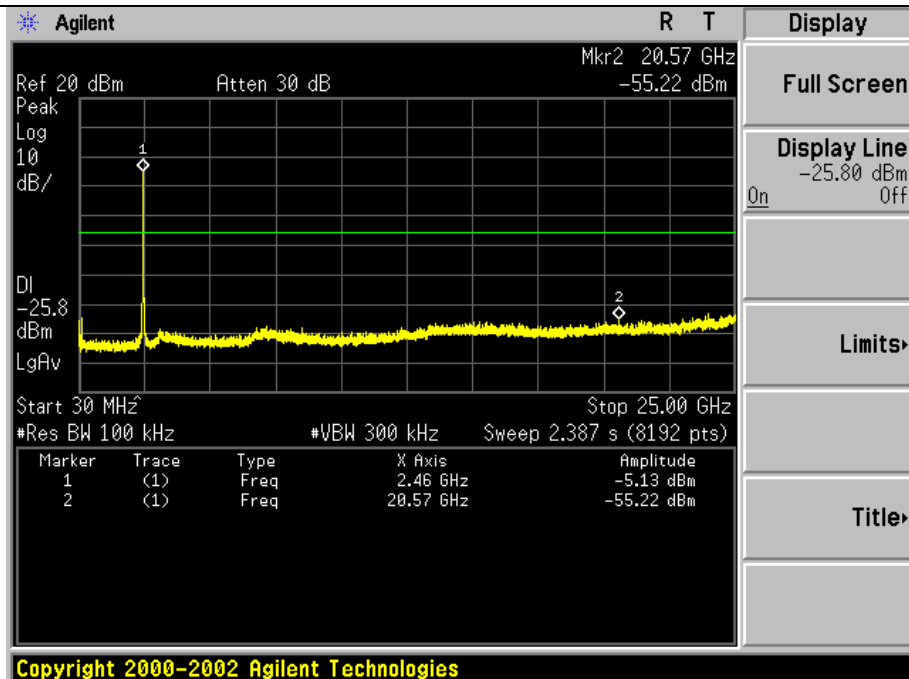




CH 06

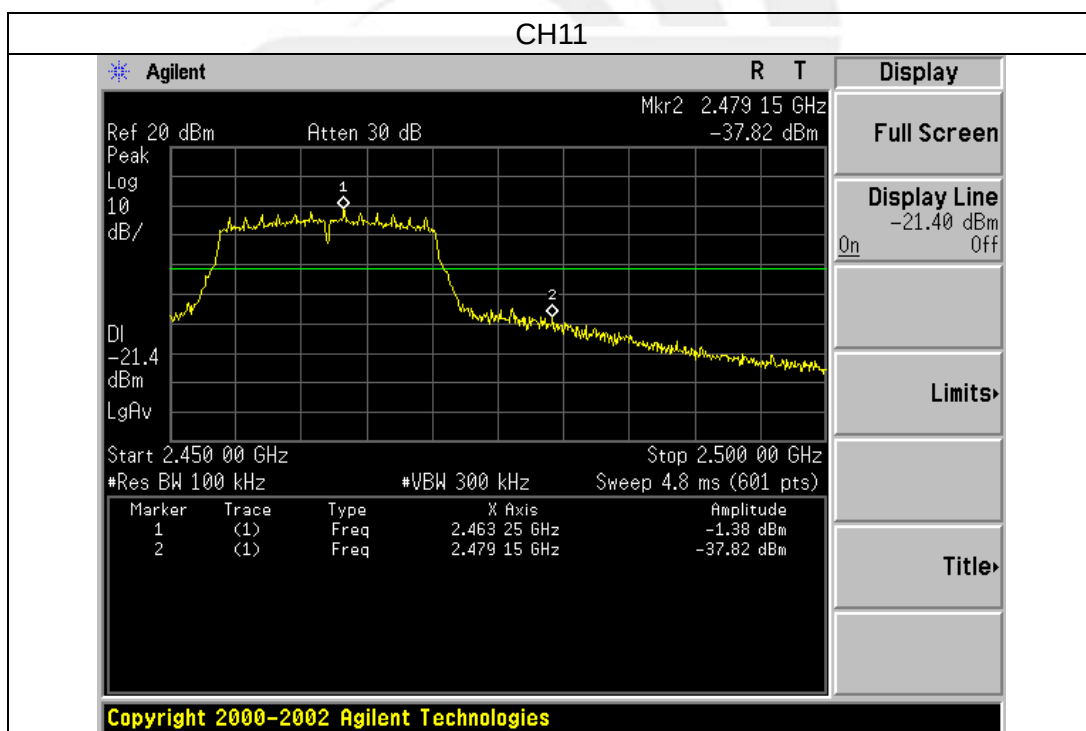
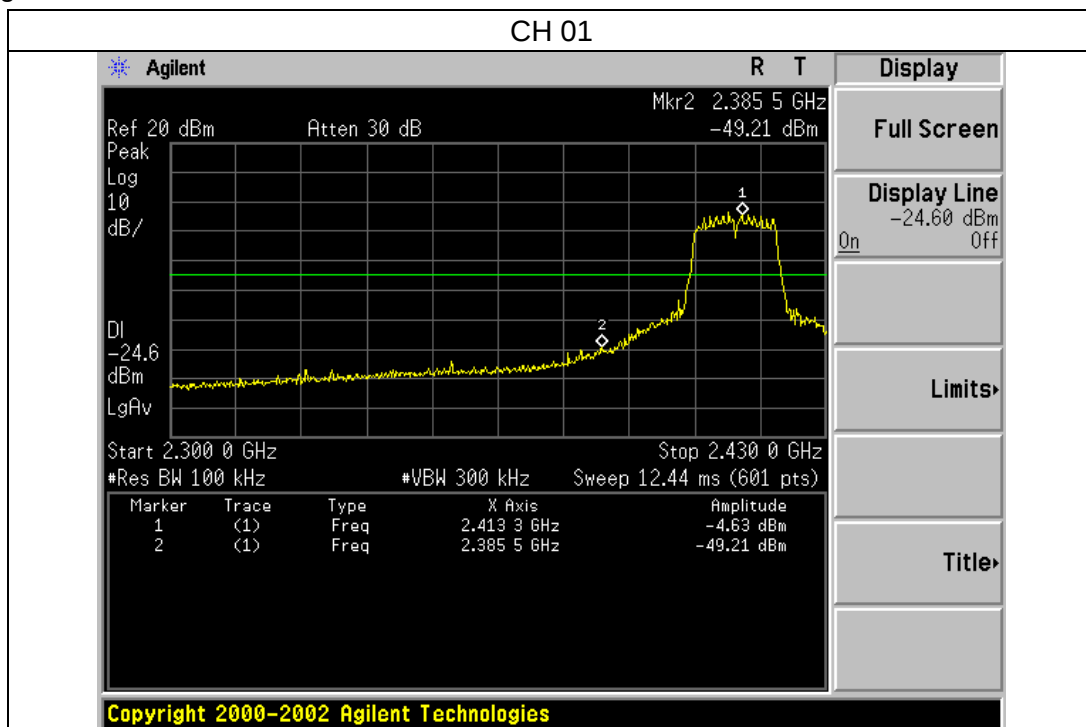


CH 11



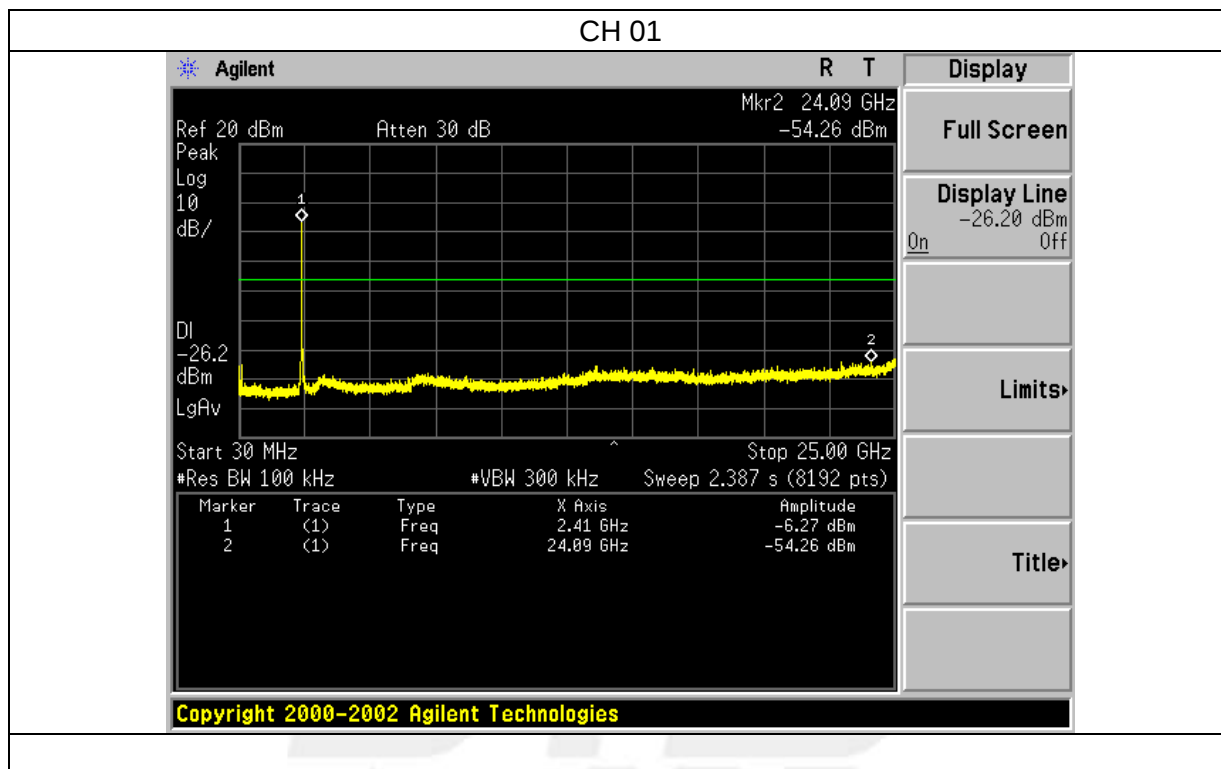


Band edge



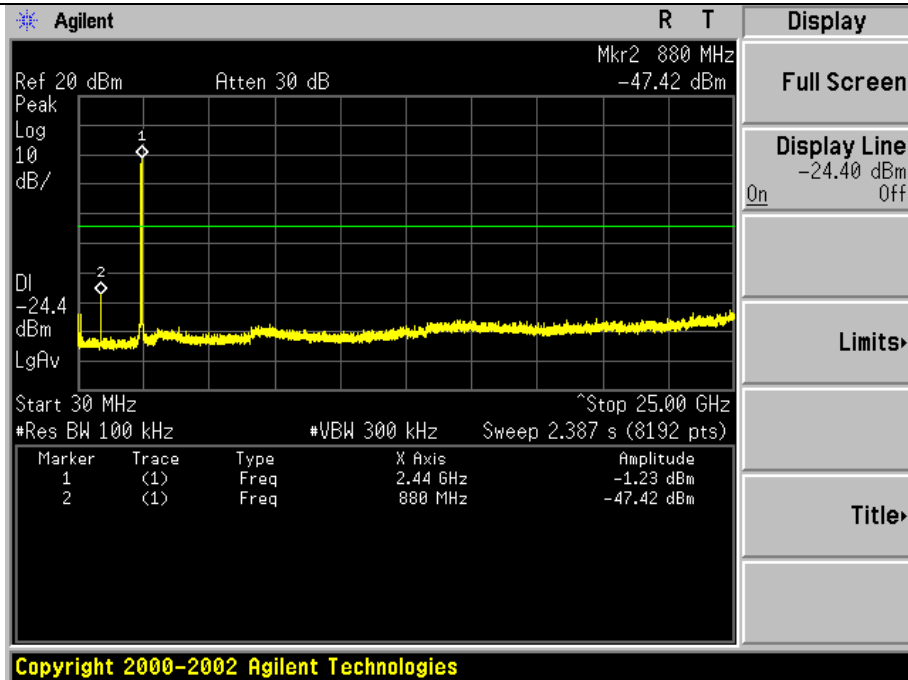


EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

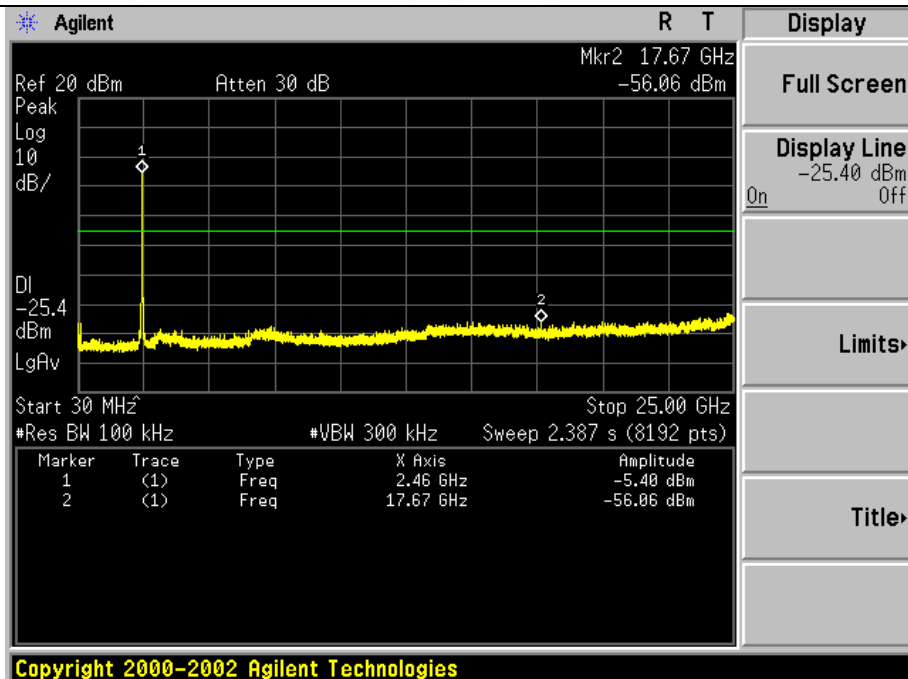




CH 06

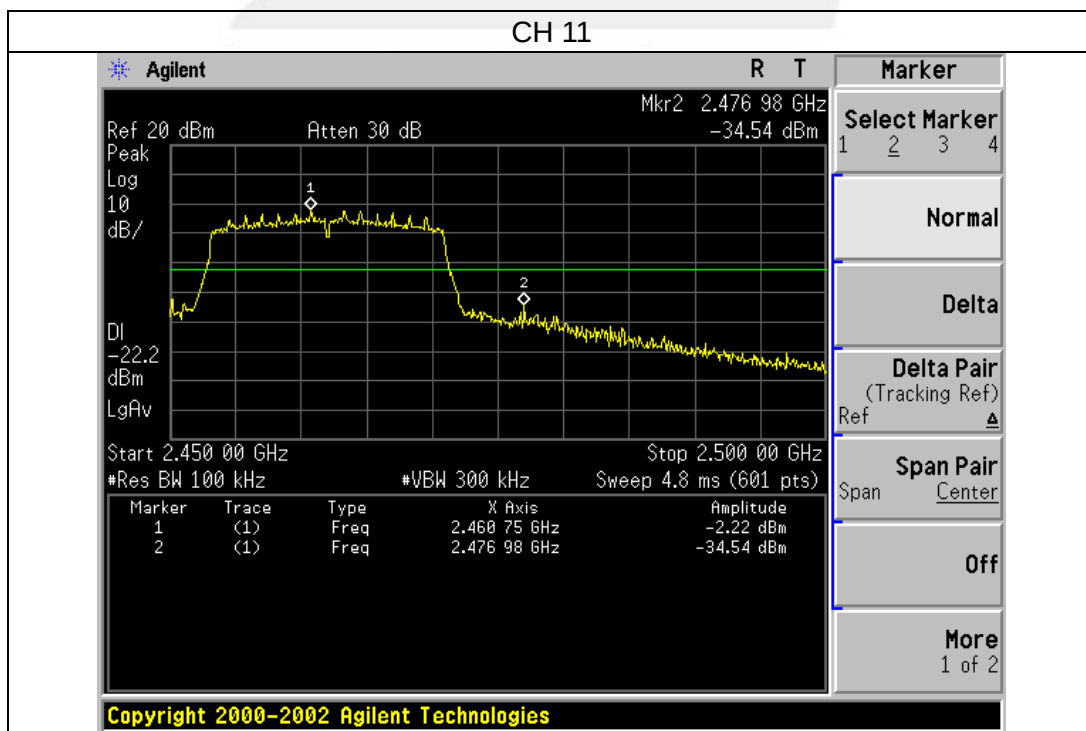
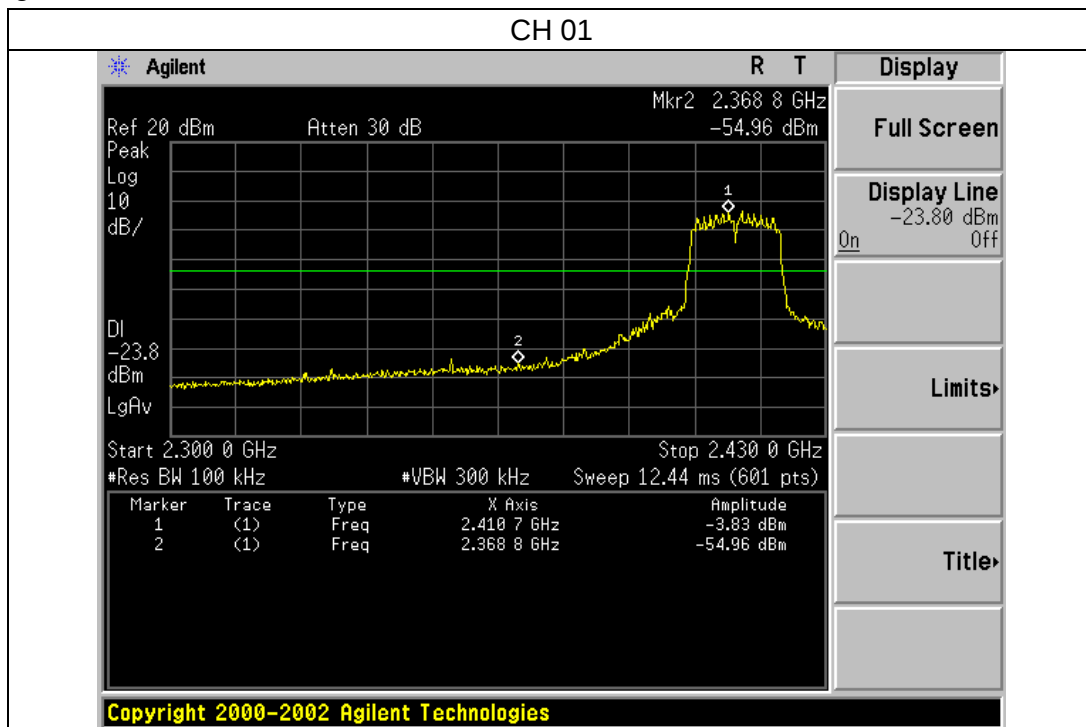


CH 11



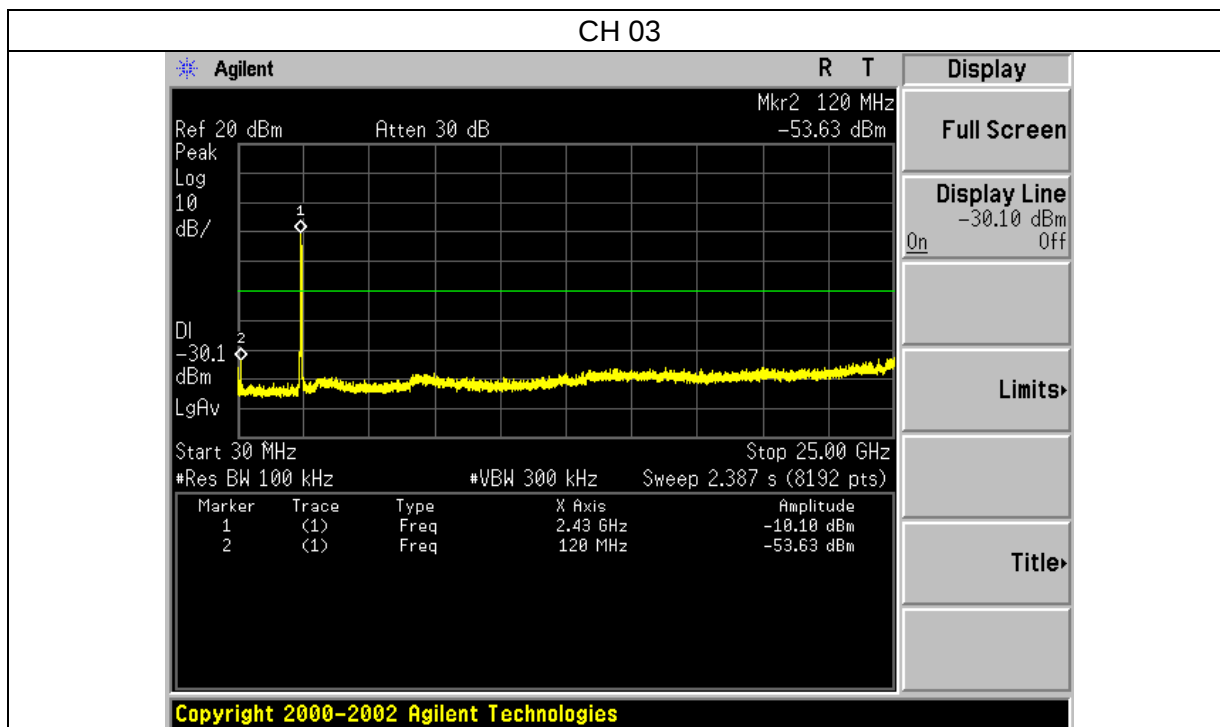


Band edge



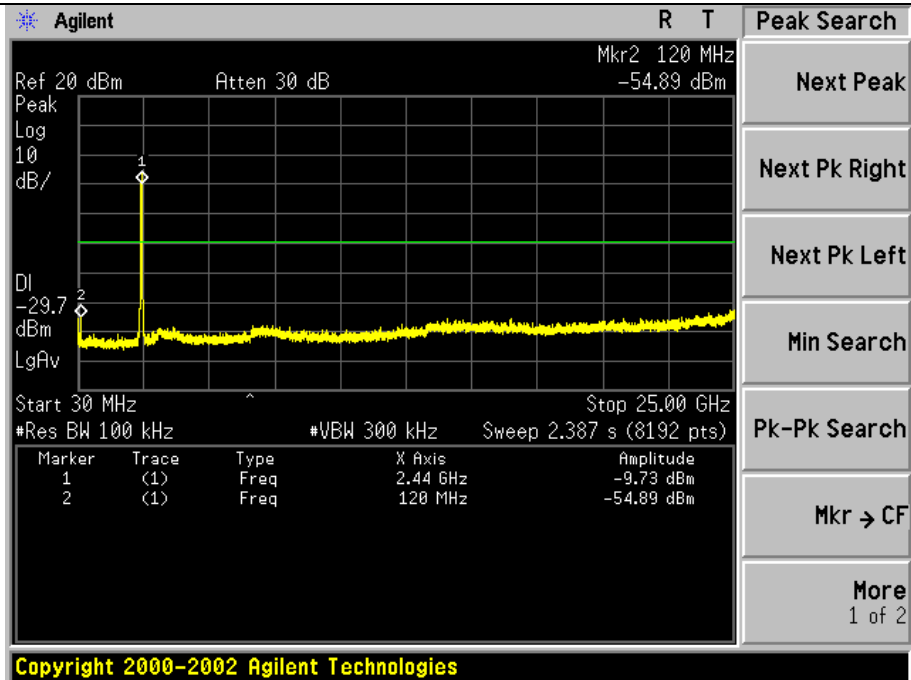


EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

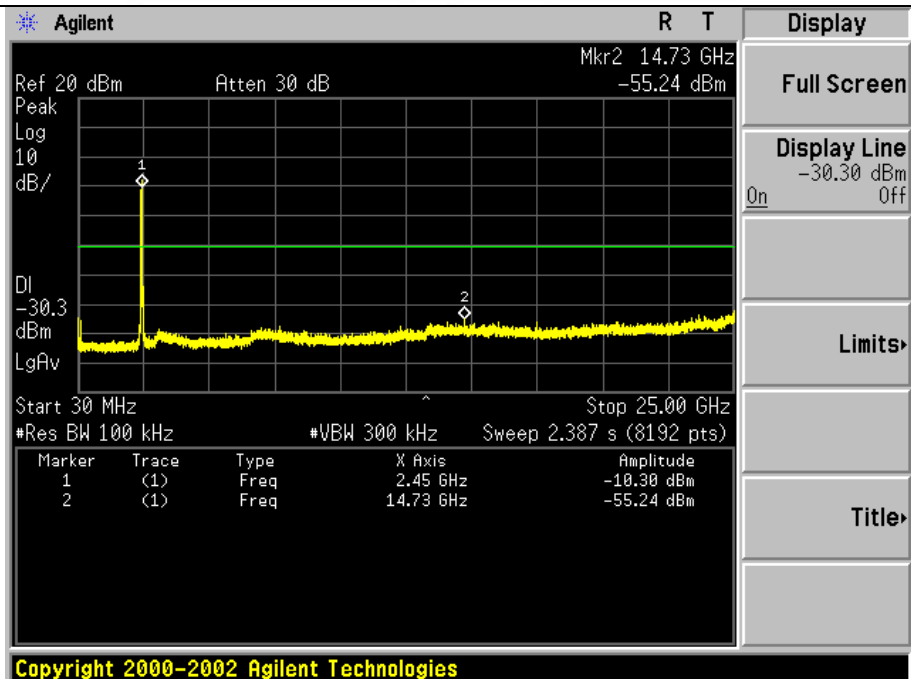




CH06

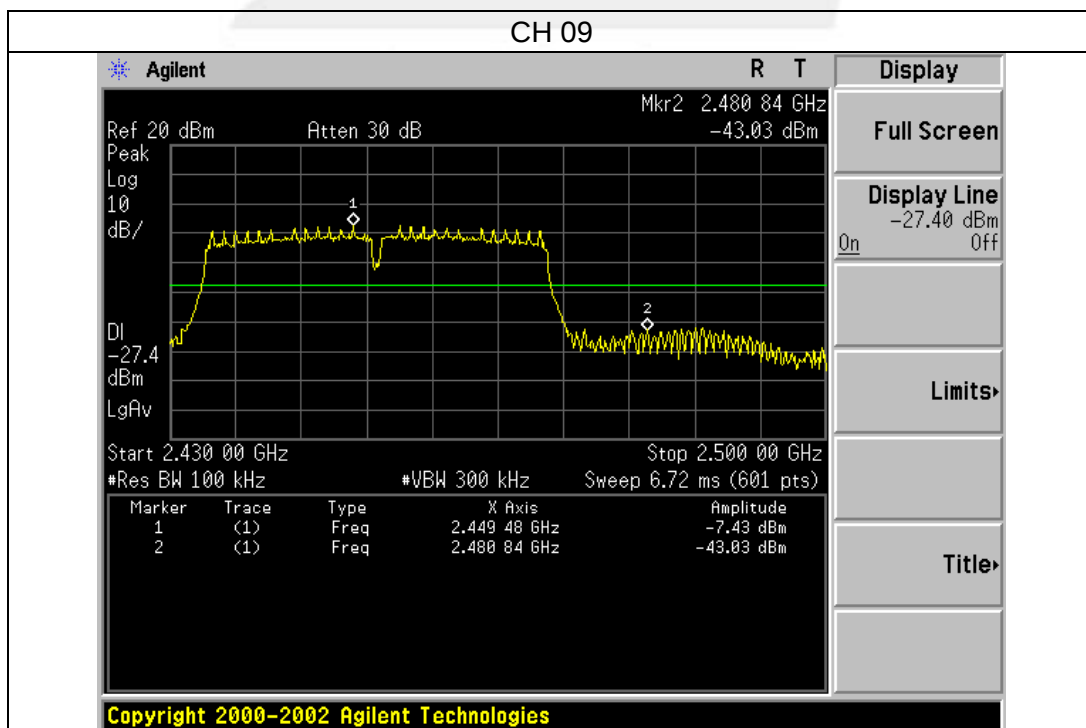
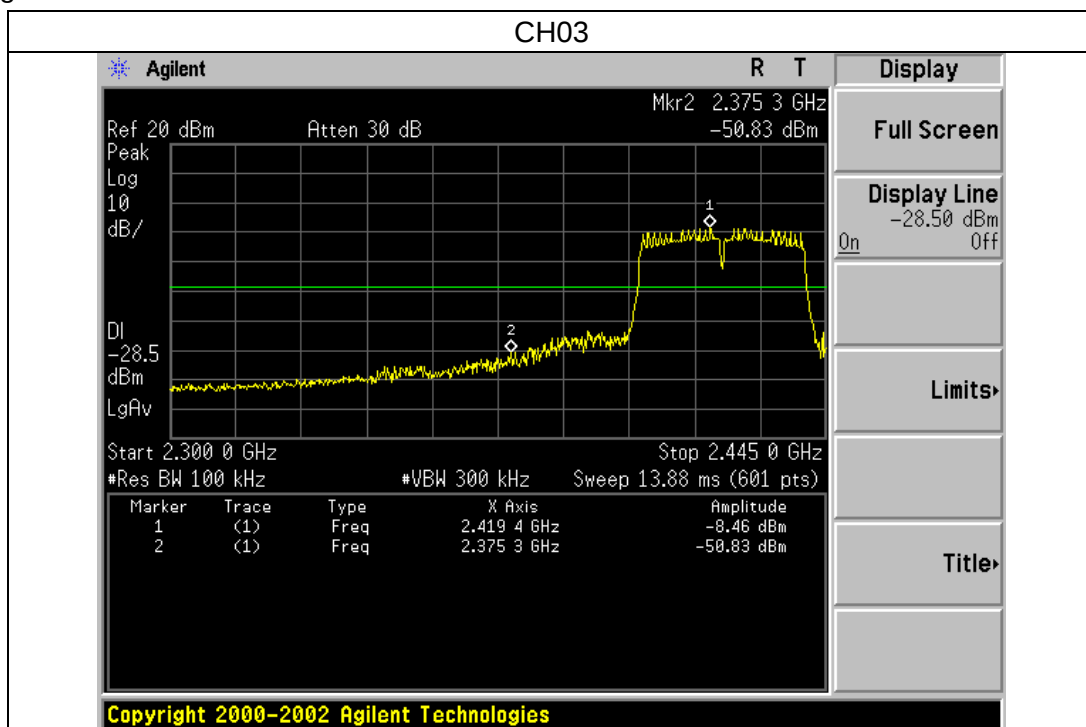


CH09





Band edge





5. POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247	Power Spectral Density	8 dBm (in any 3KHz)	2400-2483.5	PASS

5.2 TEST PROCEDURE

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

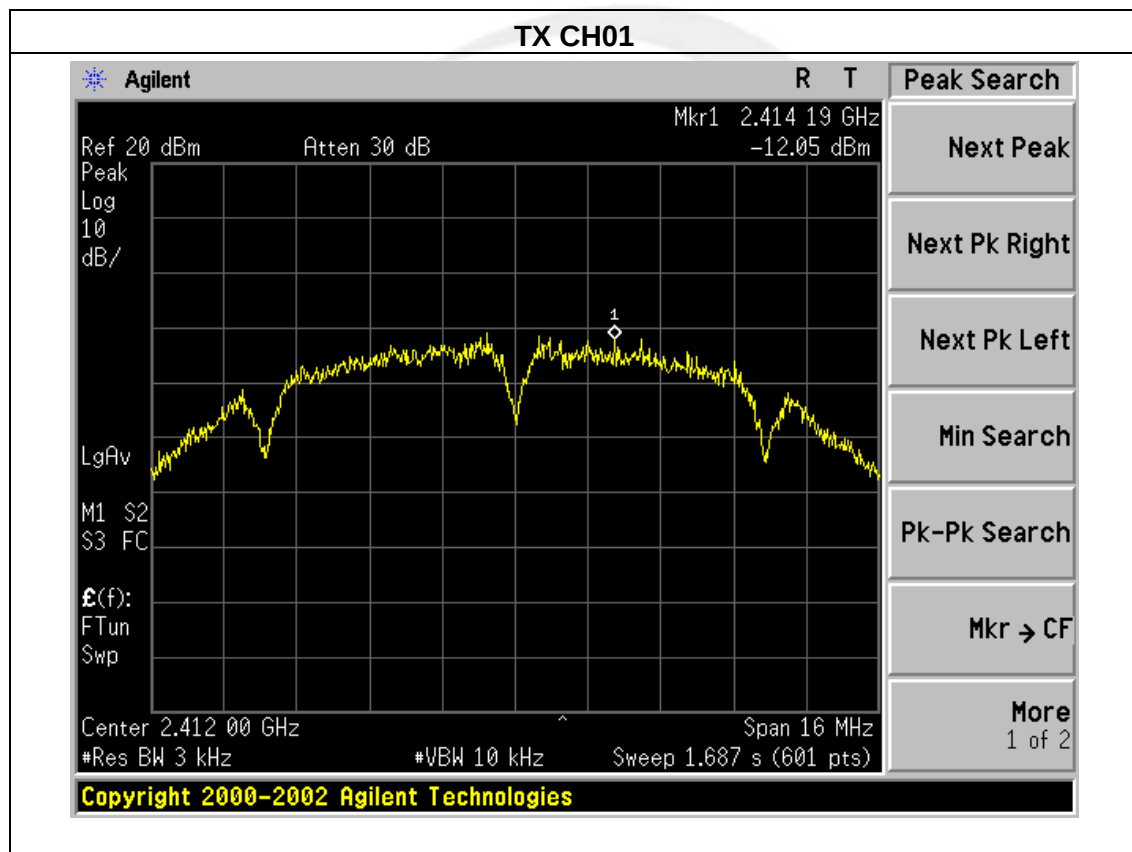
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

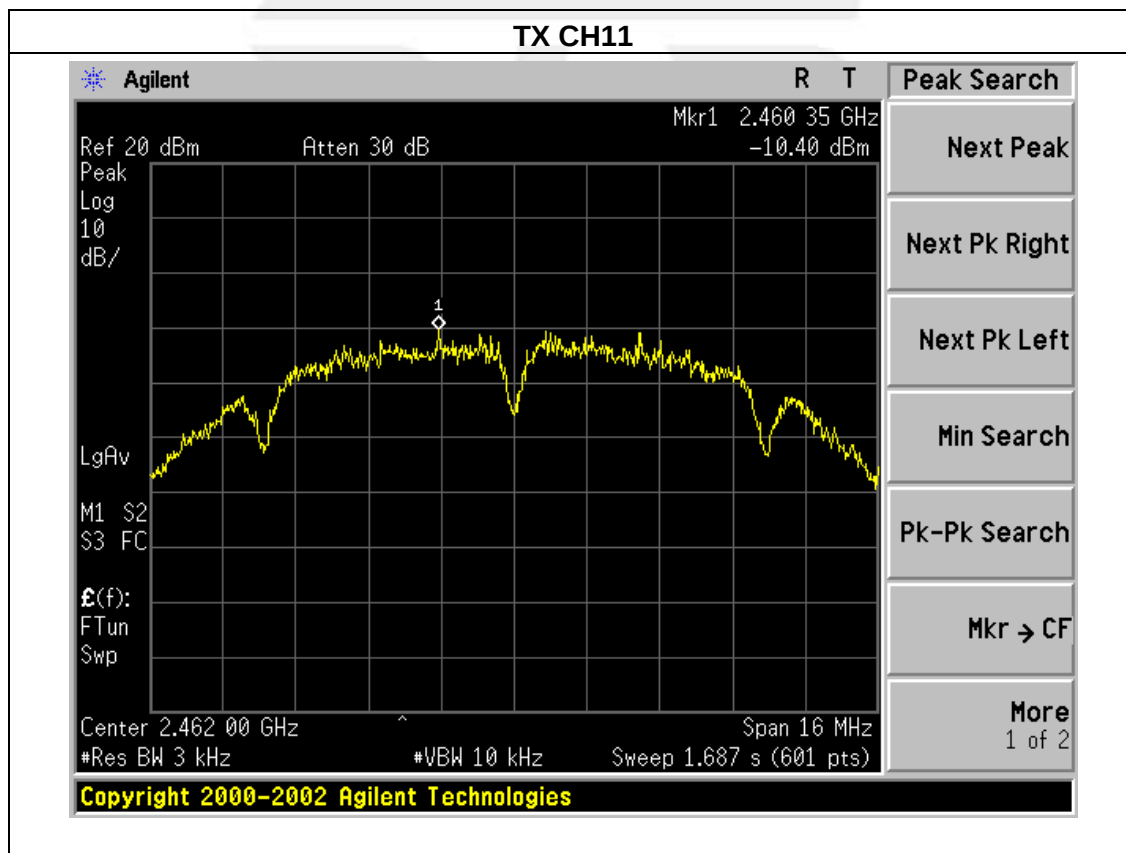
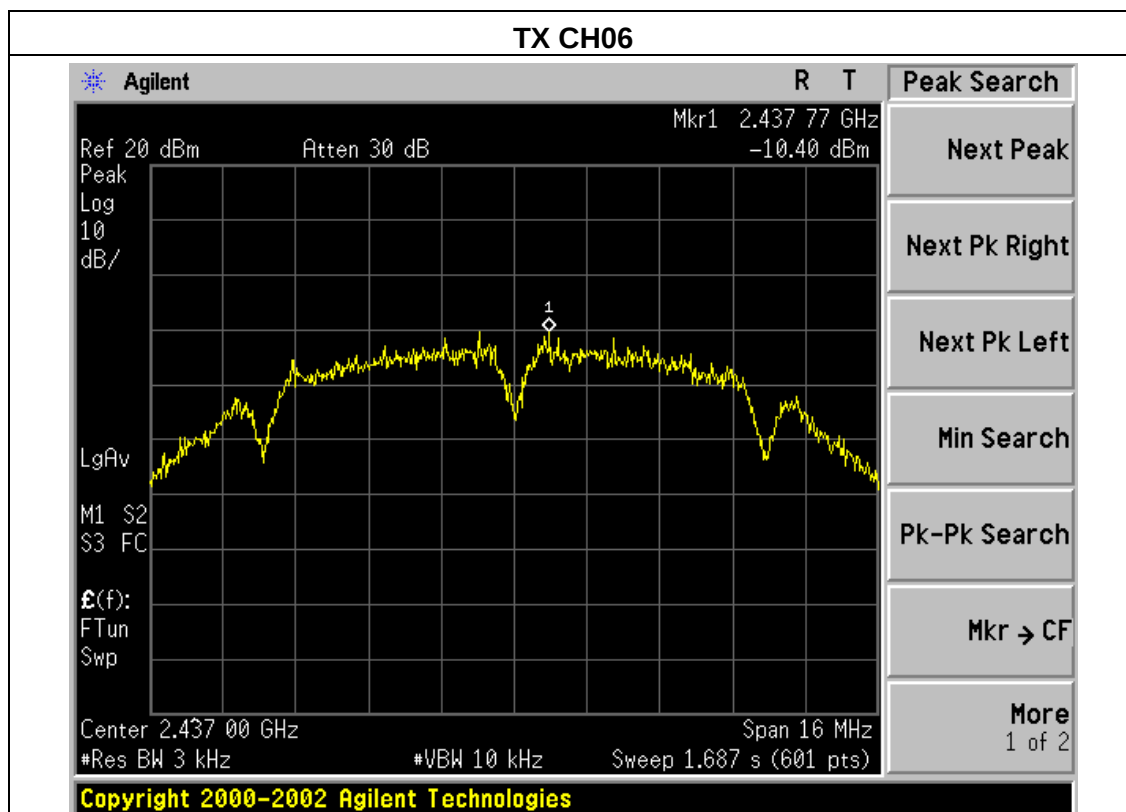


5.6 TEST RESULTS

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-12.05	8	PASS
2437 MHz	-10.40	8	PASS
2462 MHz	-10.40	8	PASS

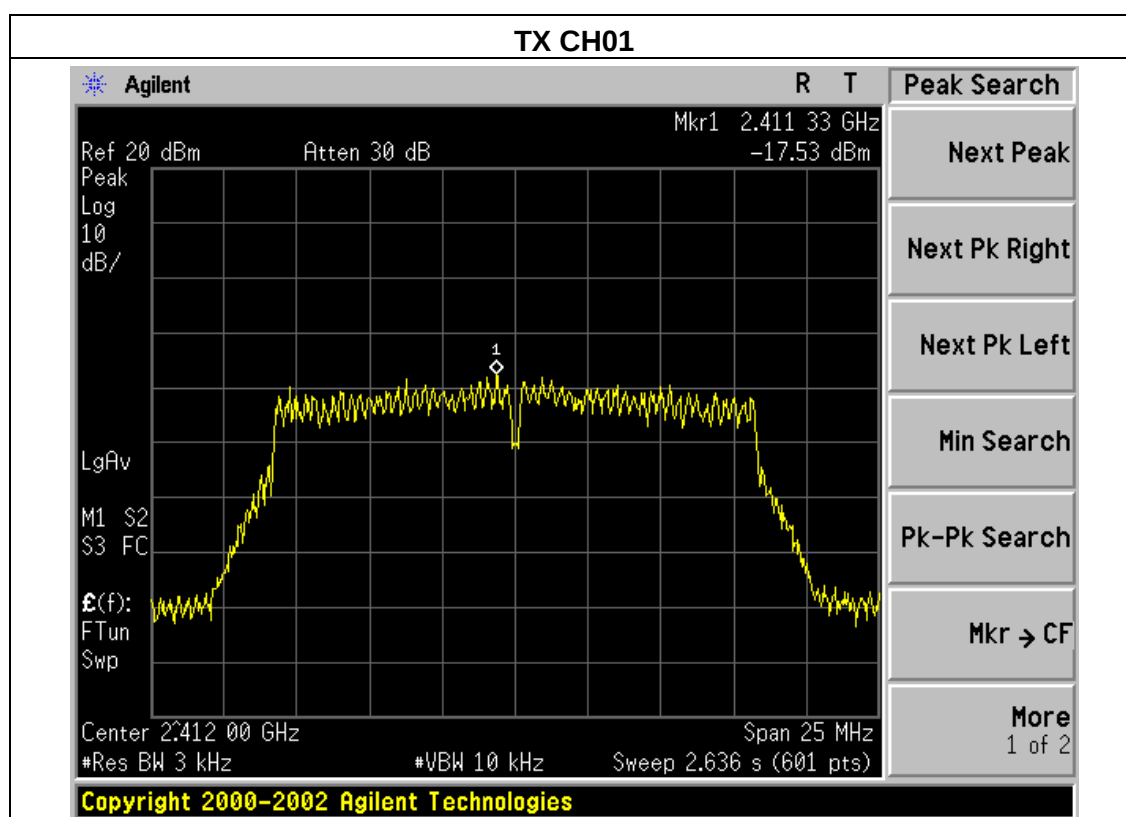


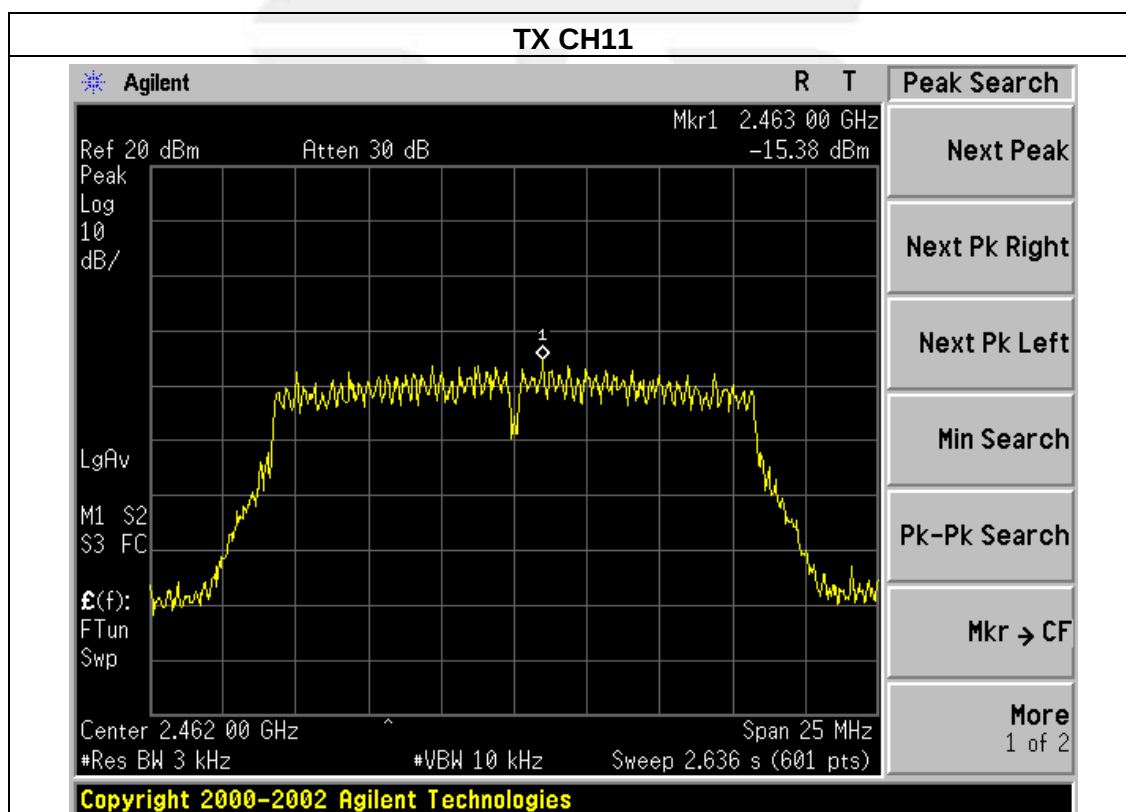
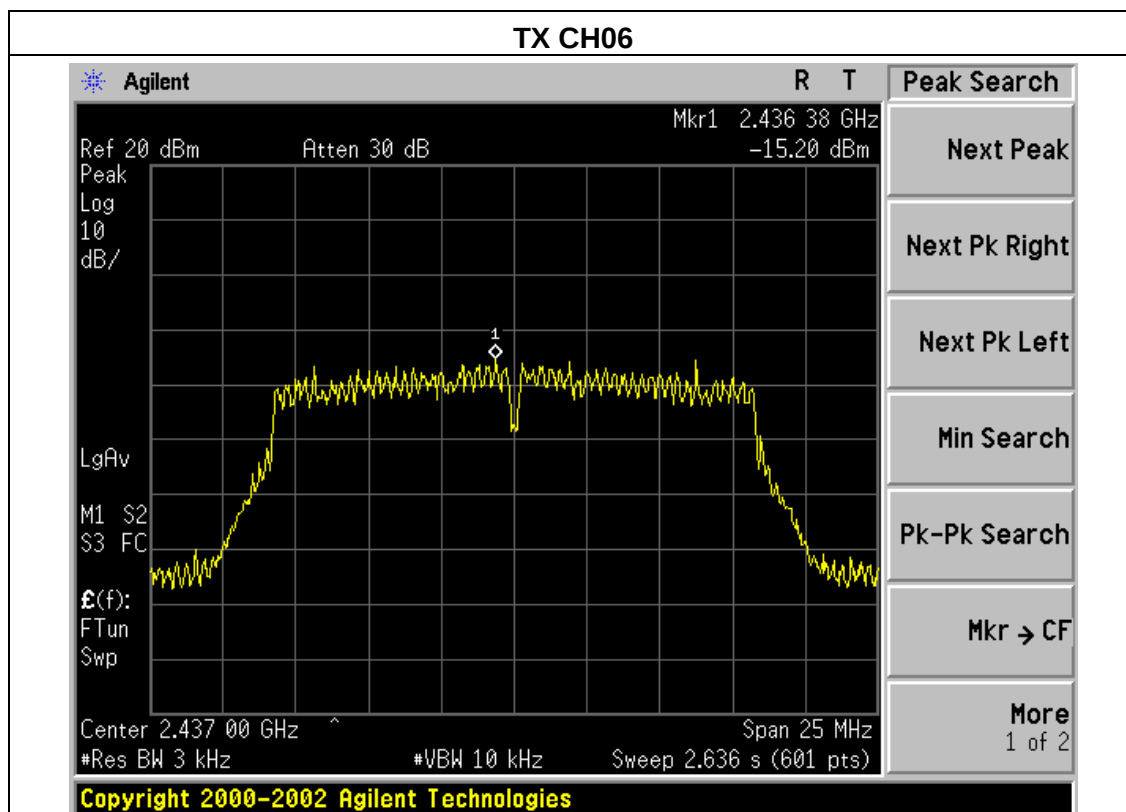




EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-17.53	8	PASS
2437 MHz	-15.20	8	PASS
2462 MHz	-15.38	8	PASS

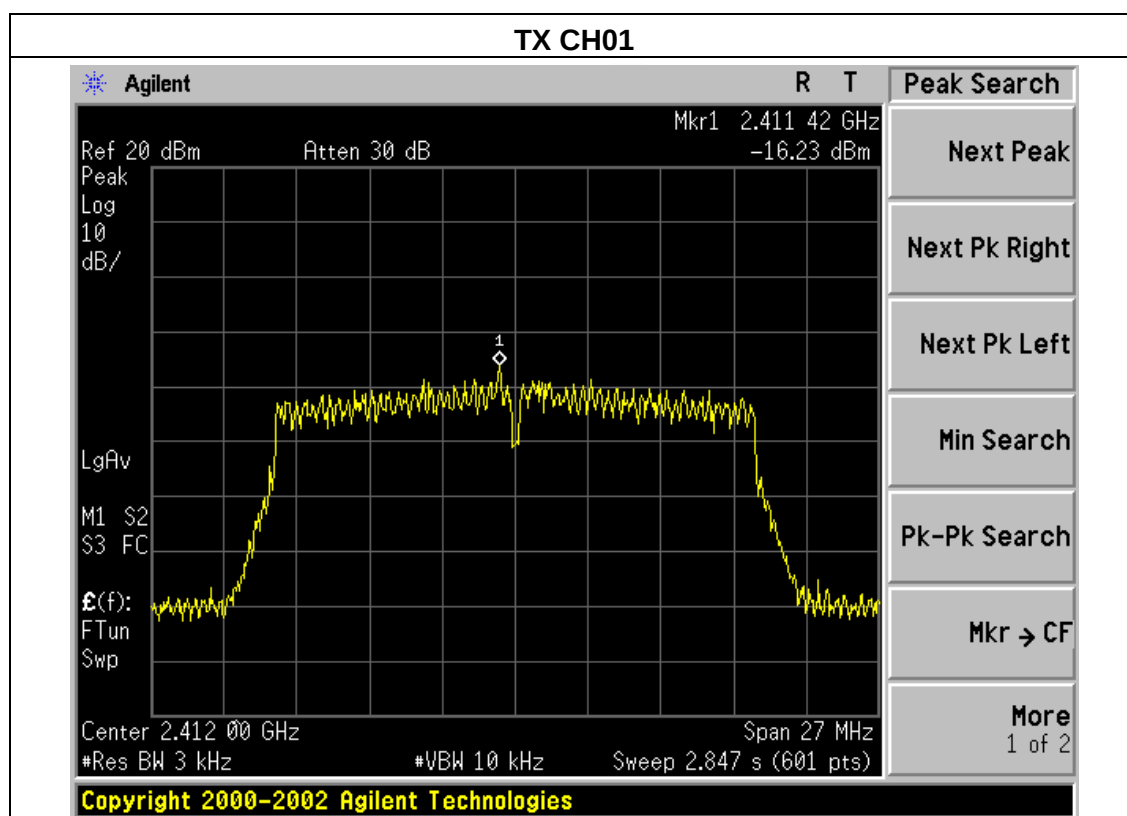


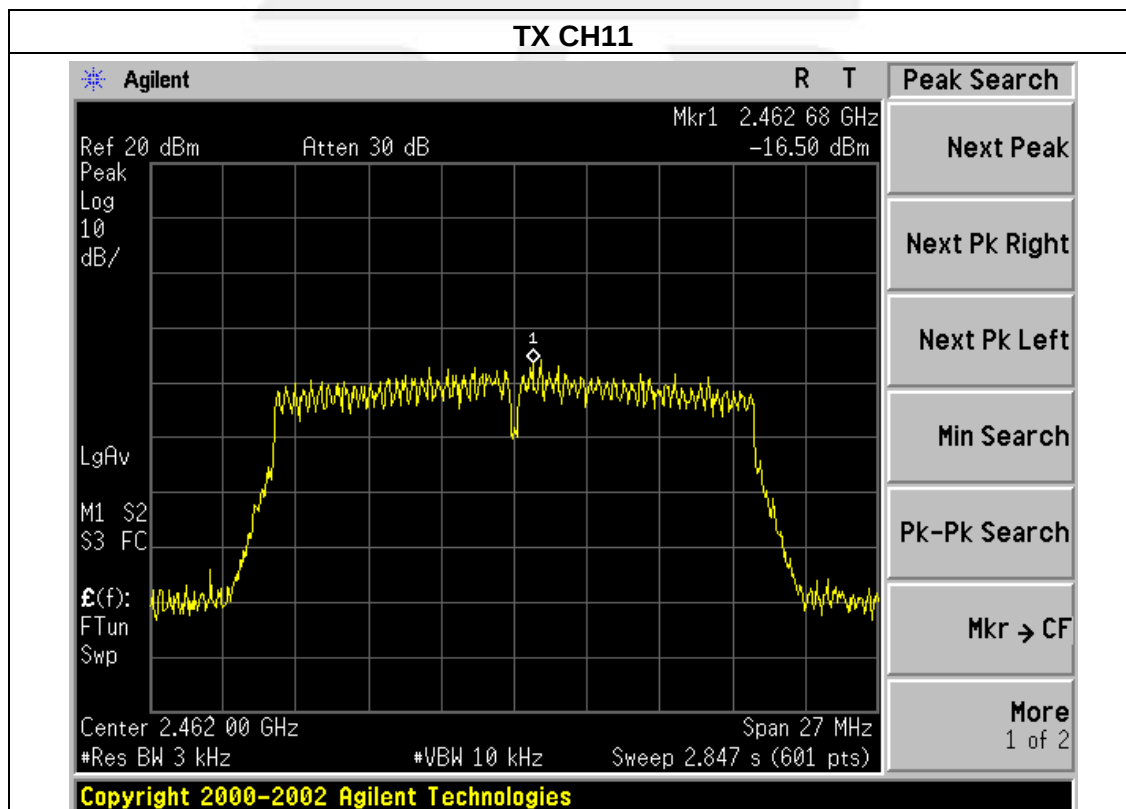
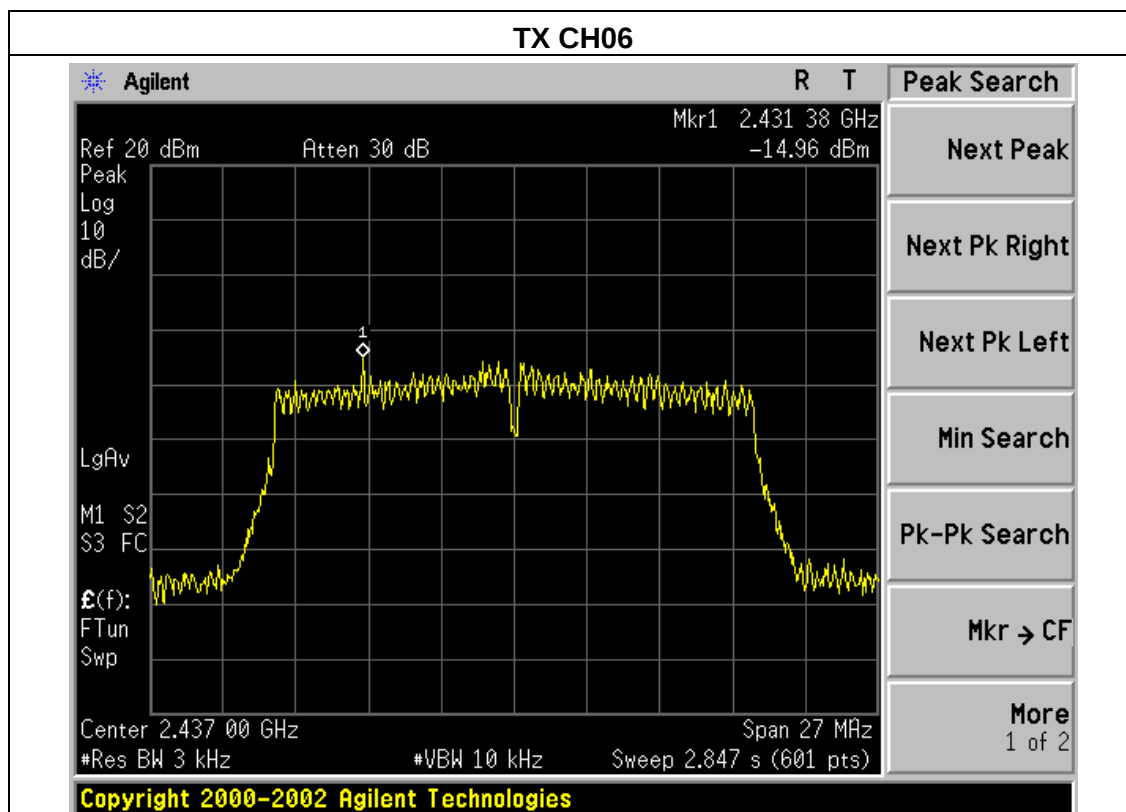




EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2412 MHz	-16.23	8	PASS
2437 MHz	-14.96	8	PASS
2462 MHz	-16.50	8	PASS

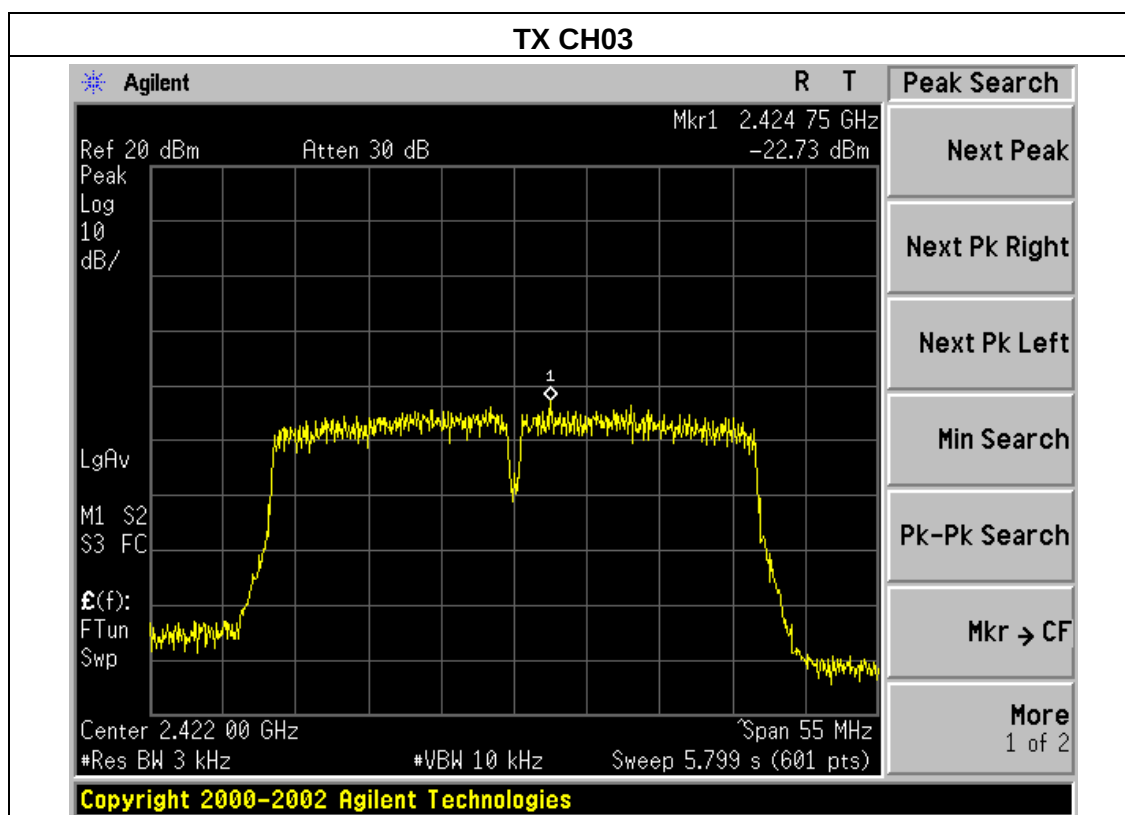


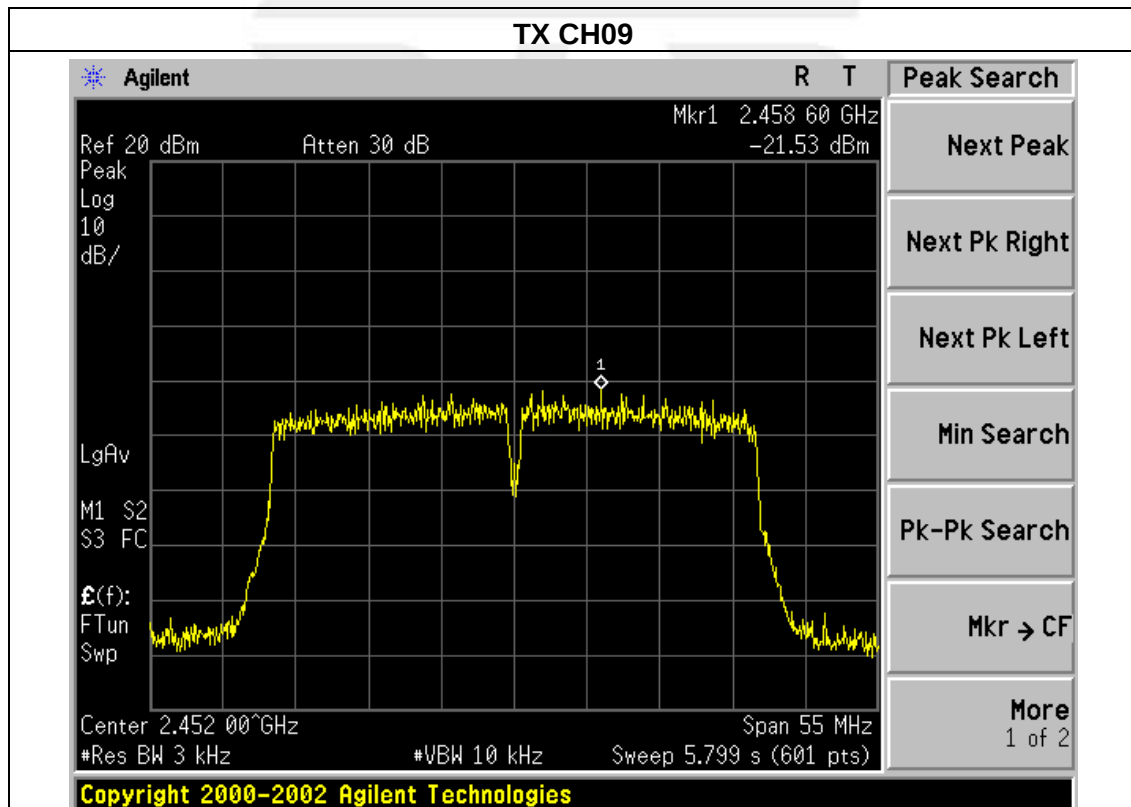
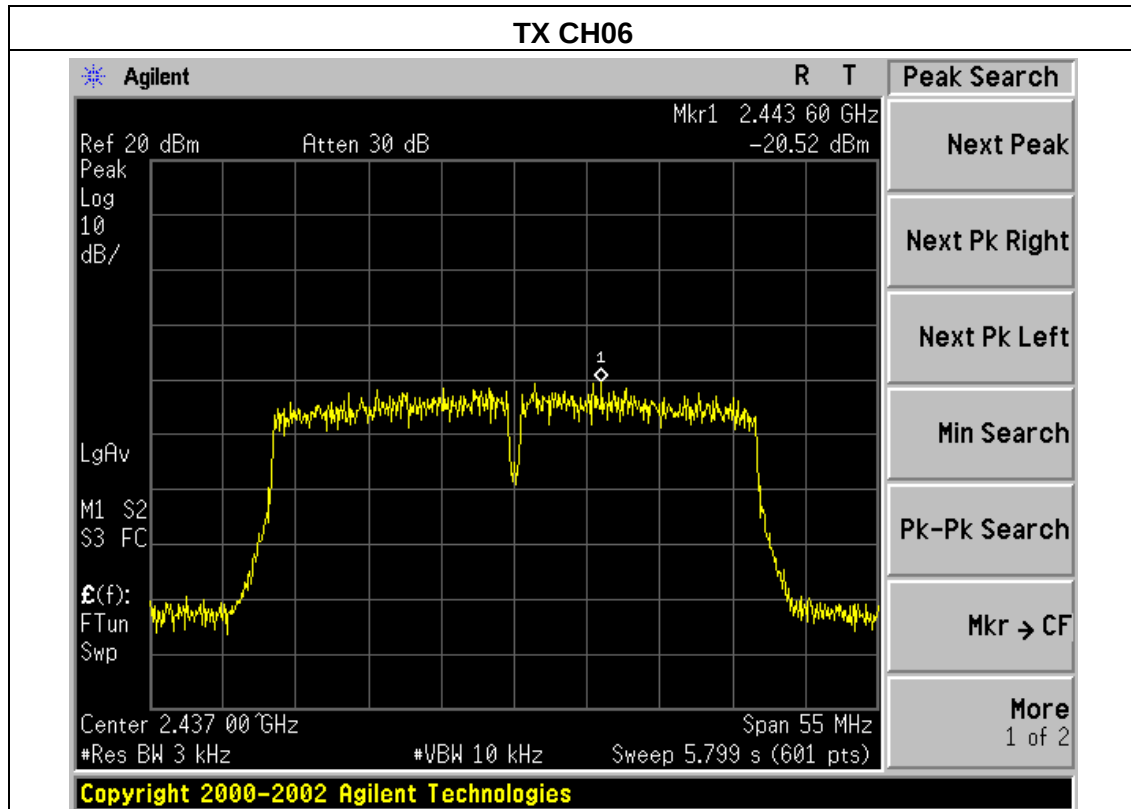




EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
2422 MHz	-22.73	8	PASS
2437 MHz	-20.52	8	PASS
2452 MHz	-21.53	8	PASS







6. BANDWIDTH TEST

6.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(a)(2)	Bandwidth	$\geq 500\text{KHz}$ (6dB bandwidth)	2400-2483.5	PASS

6.2 TEST PROCEDURE

1. Set RBW = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



6.5 EUT OPERATION CONDITIONS

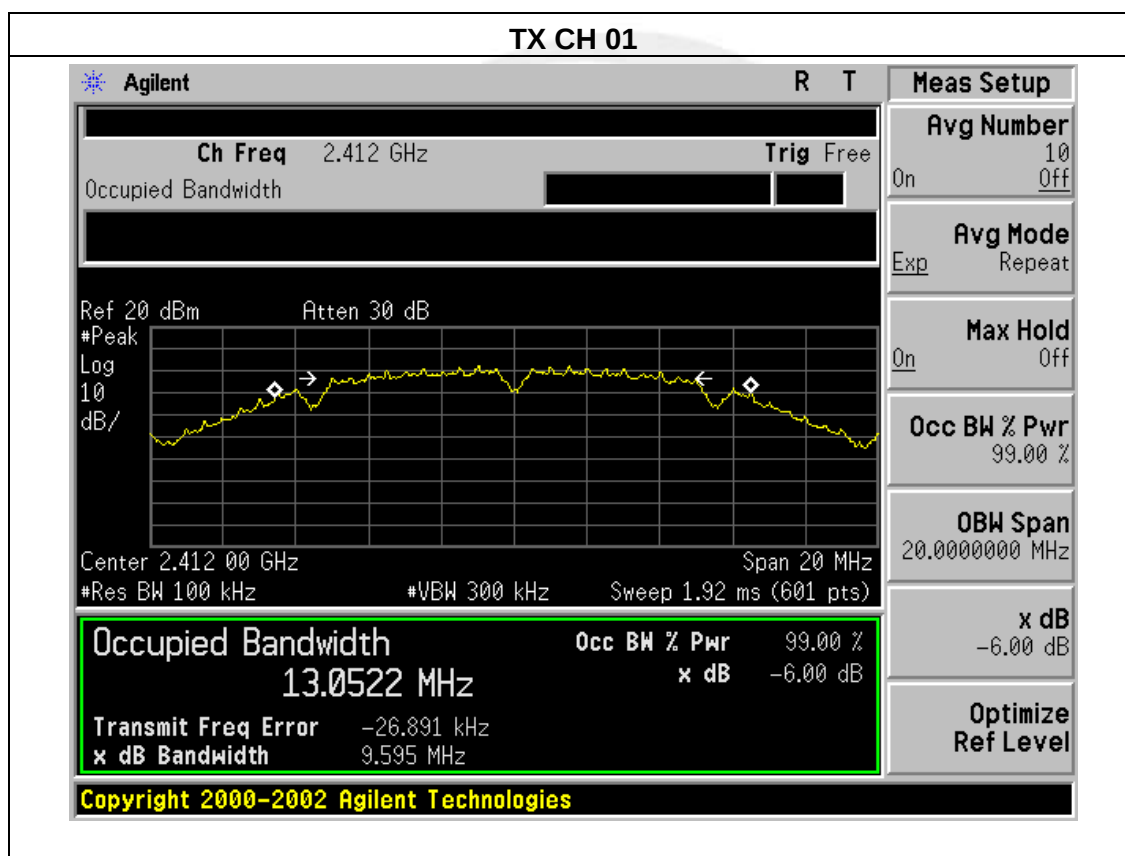
The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.6 TEST RESULTS

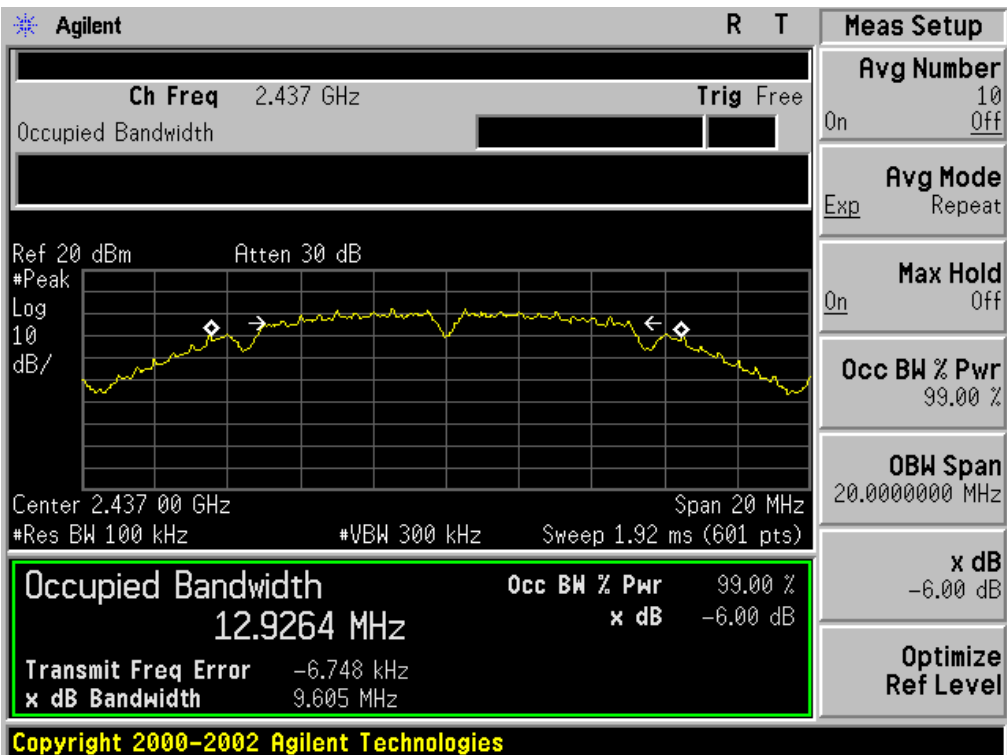
EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX b Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	9.595	>=500KHz	PASS
2437 MHz	9.605	>=500KHz	PASS
2462 MHz	10.052	>=500KHz	PASS

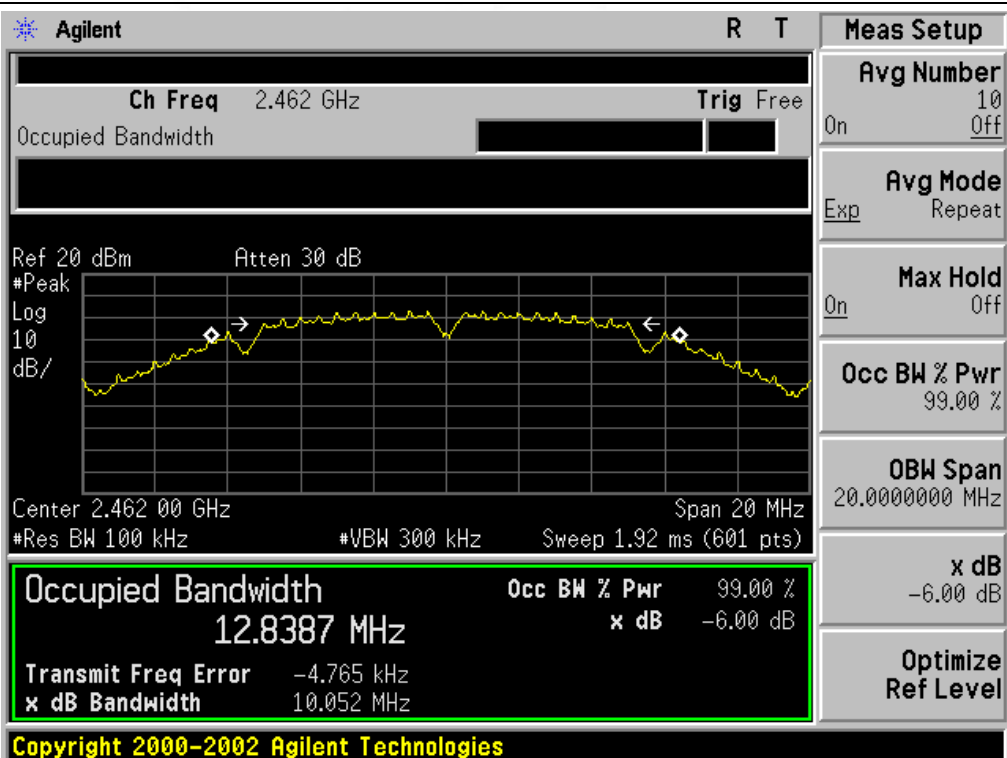




TX CH 06



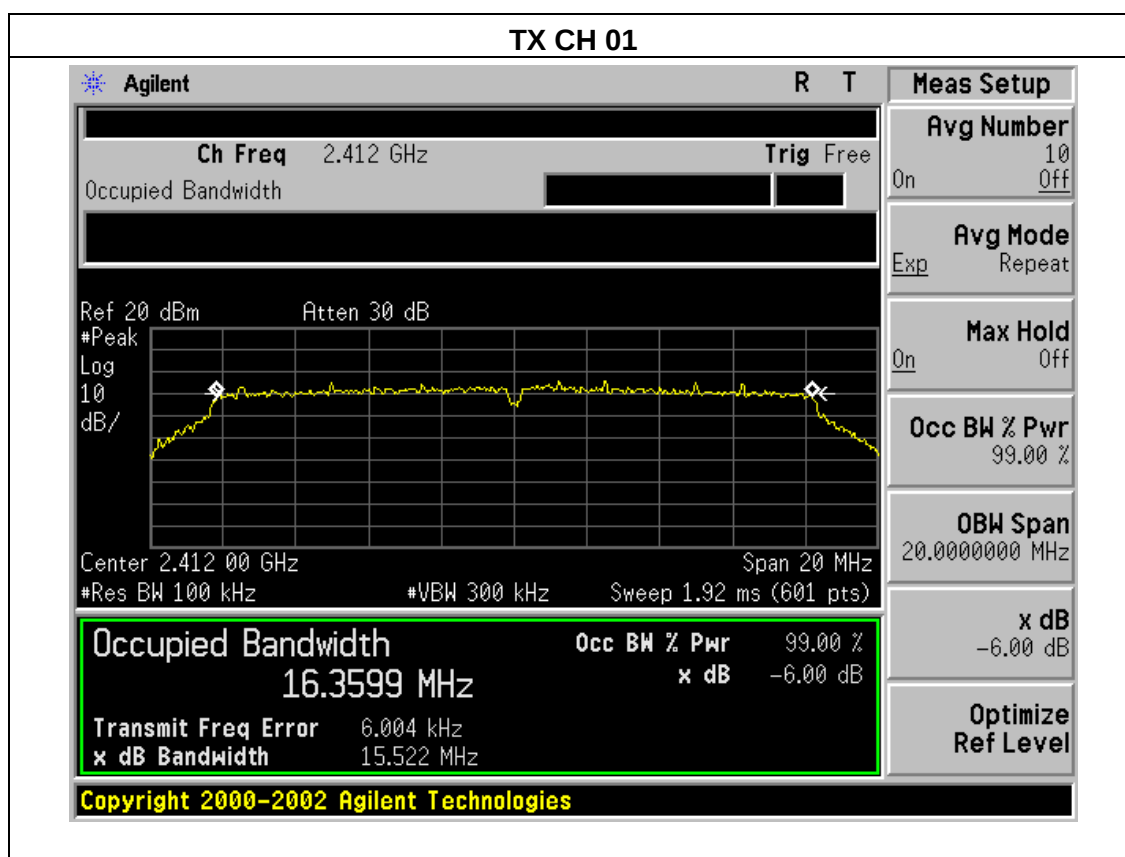
TX CH 11





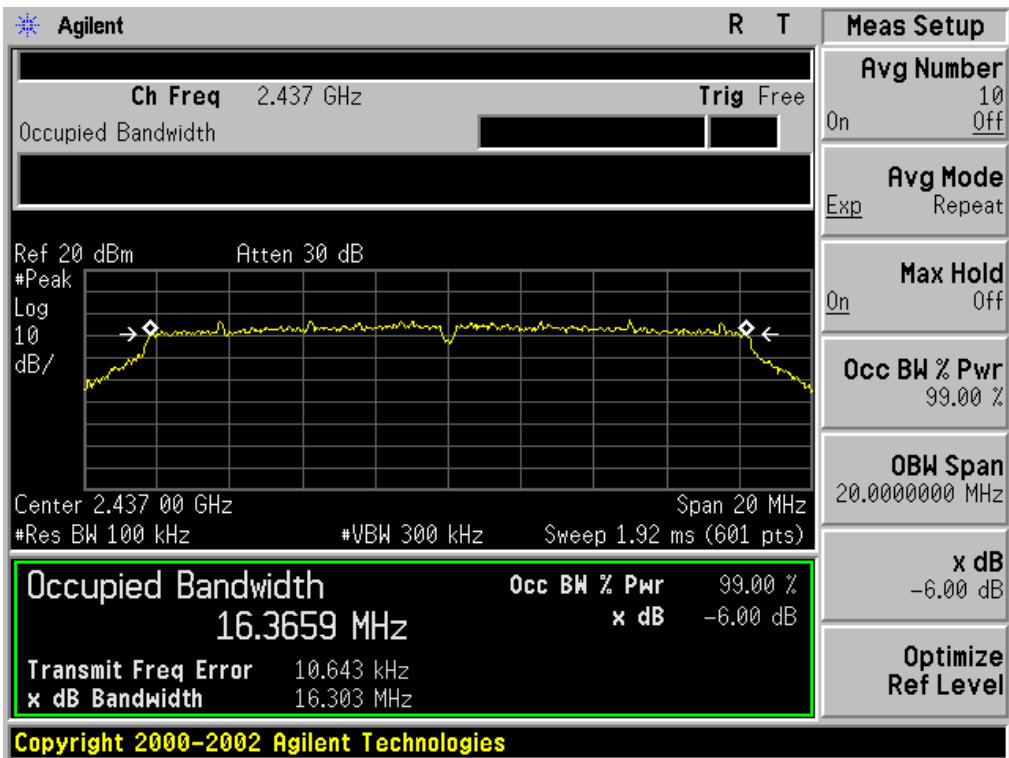
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Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX g Mode /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	15.522	>=500KHz	PASS
2437 MHz	16.303	>=500KHz	PASS
2462 MHz	15.489	>=500KHz	PASS

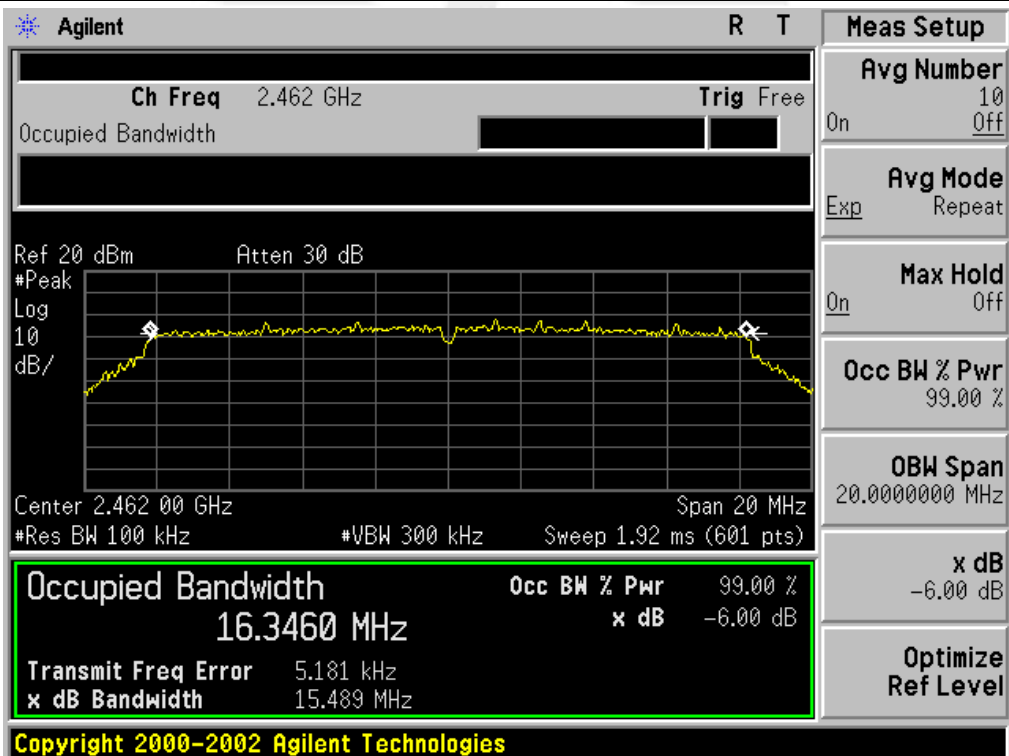




TX CH 06



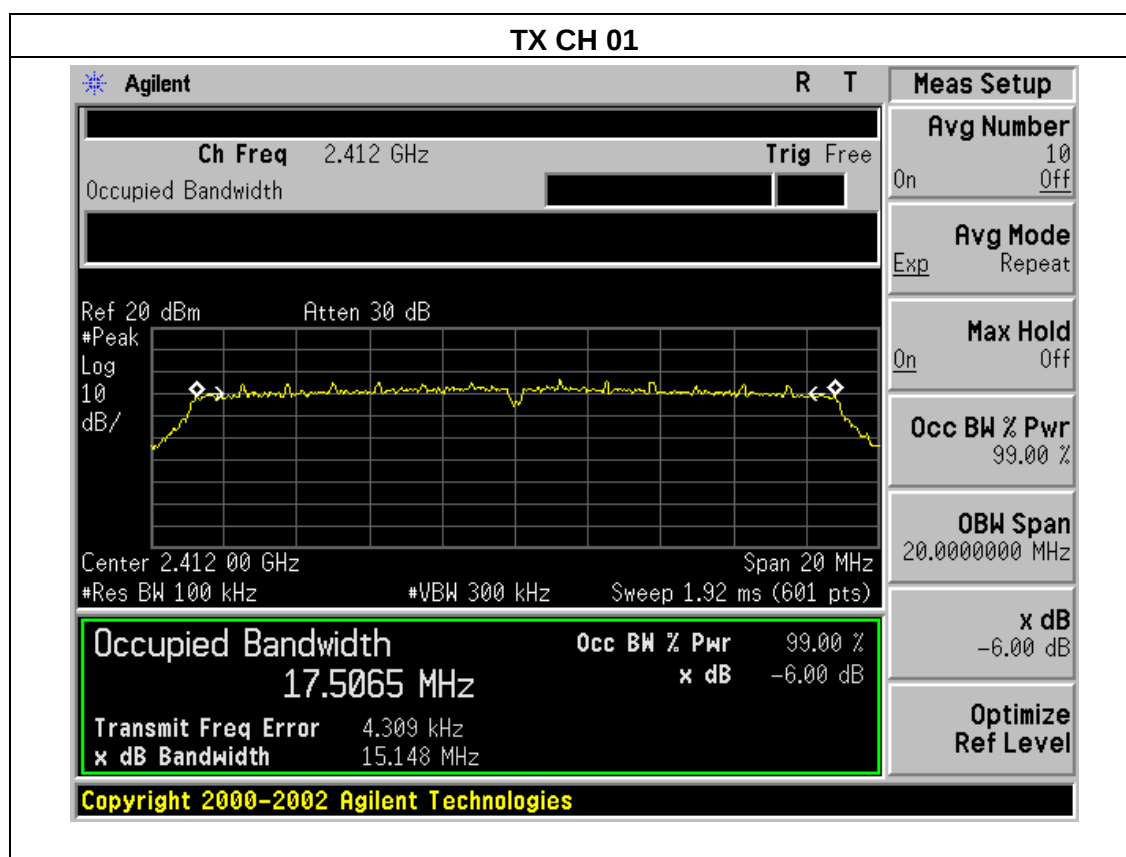
TX CH 11

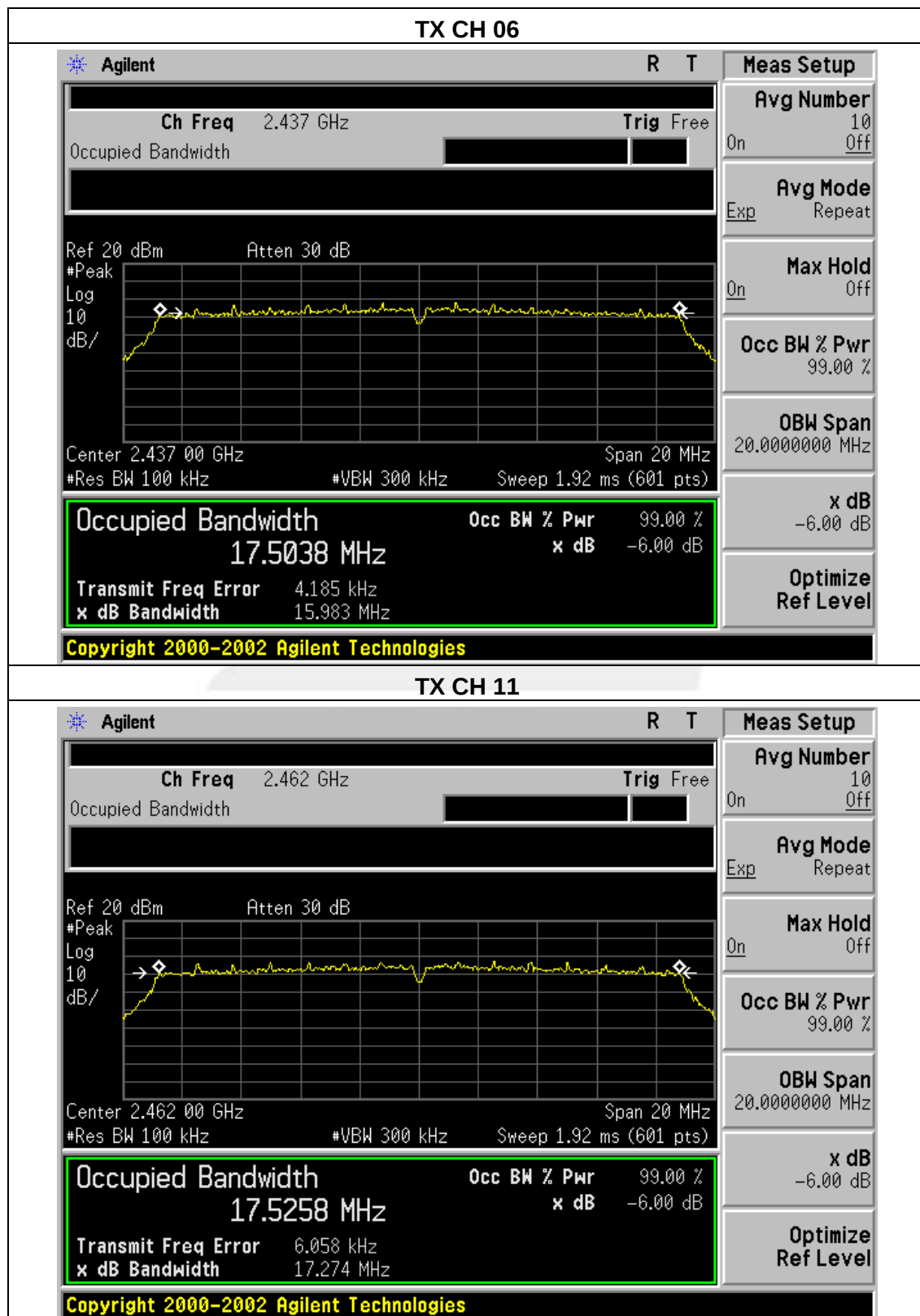




EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX n Mode(20M) /CH01, CH06, CH11		

Frequency	6dB Bandwidth (MHz)	Channel Separation	Result
2412 MHz	15.148	>=500KHz	PASS
2437 MHz	15.983	>=500KHz	PASS
2462 MHz	17.274	>=500KHz	PASS

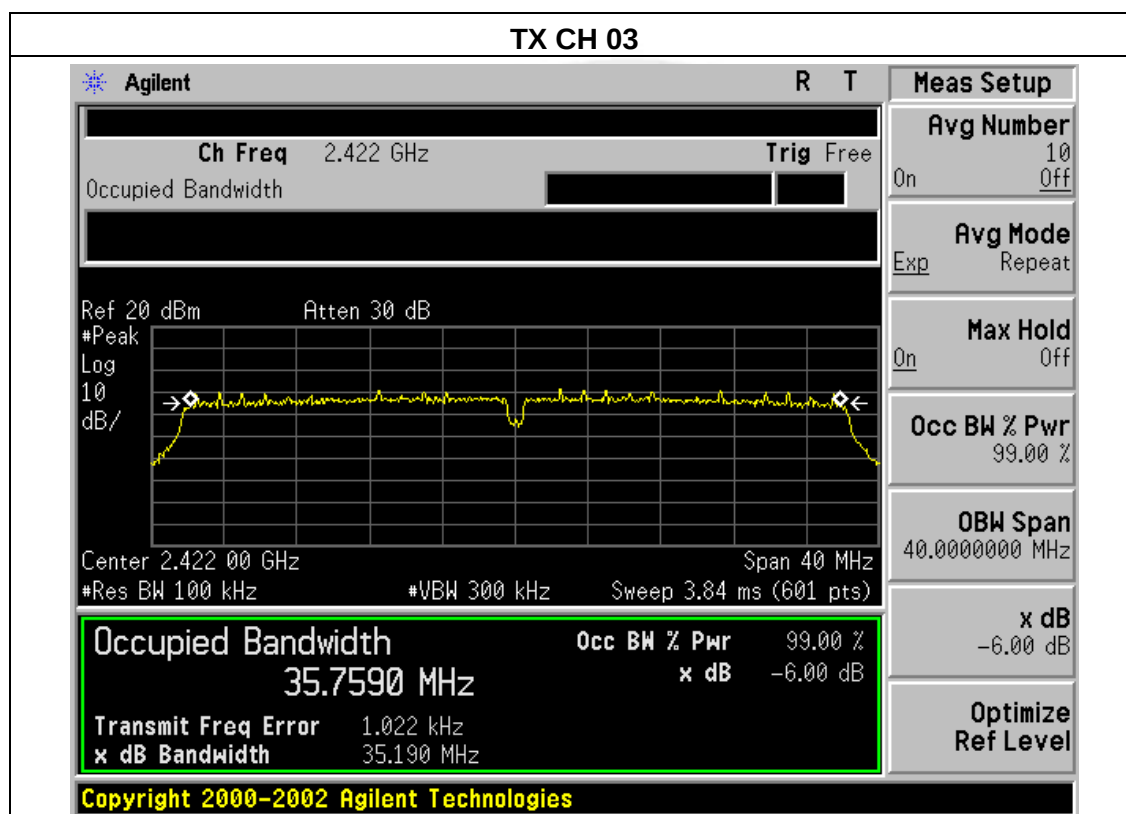






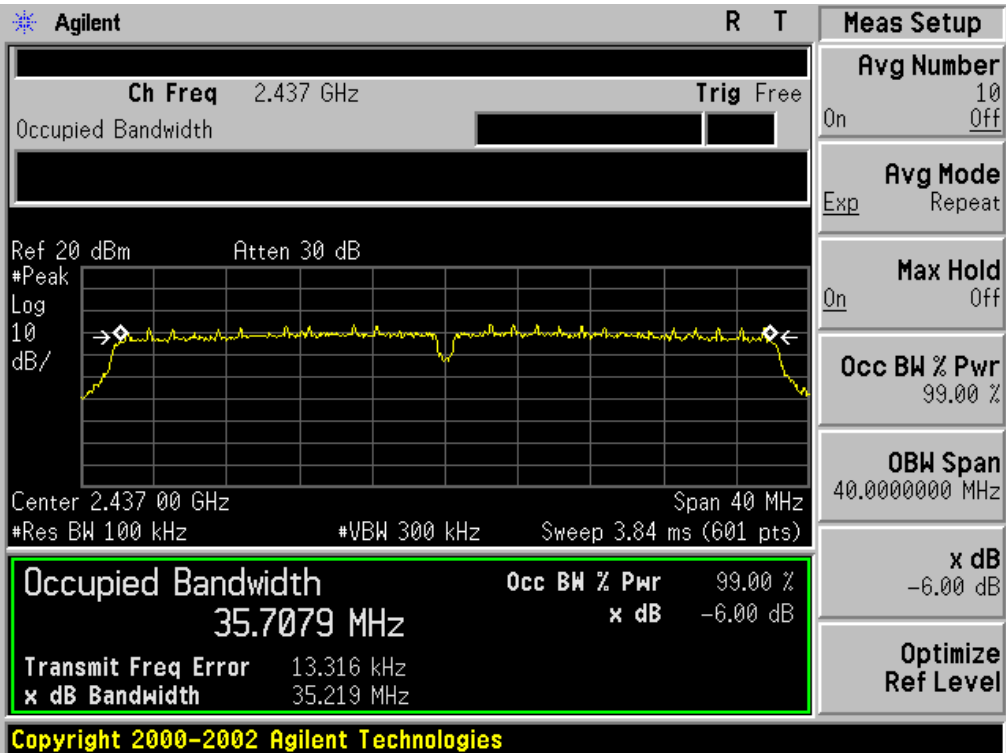
EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX n Mode(40M) /CH03, CH06, CH09		

Frequency	6dB Bandwidth (MHz)	Channel Separation (MHz)	Result
2422 MHz	35.190	>=500KHz	PASS
2437 MHz	35.219	>=500KHz	PASS
2452 MHz	35.261	>=500KHz	PASS

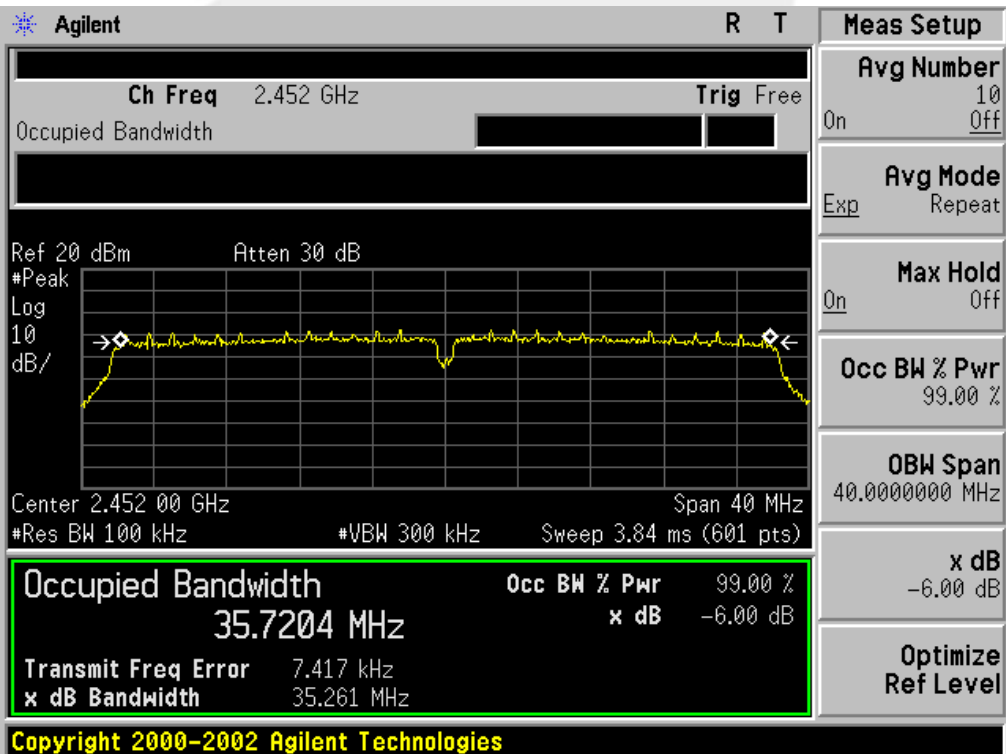




TX CH 06



TX CH 09





7. PEAK OUTPUT POWER TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(b)(3)	Peak Output Power	1 watt or 30dBm	2400-2483.5	PASS

7.2 TEST PROCEDURE

- a. The EUT was directly connected to the Power Sensor&Power meter

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



7.5 TEST RESULTS

EUT :	Tablet	Model Name :	Nitro Phablet 71
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V from battery
Test Mode :	TX b/g/n(20M,40M) Mode /CH01, CH06, CH11		

TX 802.11b Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	9.83	30
CH06	2437	9.69	30
CH11	2462	9.28	30

TX 802.11g Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	8.25	30
CH06	2437	8.18	30
CH11	2462	8.12	30

TX 802.11n20 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH01	2412	7.15	30
CH06	2437	7.12	30
CH11	2462	7.08	30

TX 802.11n40 Mode			
Test Channe	Frequency	Peak Conducted Output Power	LIMIT
	(MHz)	(dBm)	dBm
CH03	2422	5.62	30
CH06	2437	5.66	30
CH09	2452	5.45	30



8. ANTENNA REQUIREMENT

8.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

8.2 EUT ANTENNA

The EUT antenna is PIFA Antenna. It comply with the standard requirement.



APPENDIX - PHOTOS OF TEST SETUP

Radiated Measurement Photos



Conducted Measurement Photos

