



FCC RADIO TEST REPORT-BT

FCC ID: 2ABEPIM1003

Product : 10.6 inch MID

Trade Name : NuVision

Model Name : TM106A510L

Serial Model : TM1003Q,TM106A520L,TM106A530L

Report No. : NTEK-2015NT0824586F2

Prepared for

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TEST RESULT CERTIFICATION

Applicant's name : Shenzhen Tianzheng Hongye Technology Co.Ltd.
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Manufacture's Name..... : Shenzhen Tianzheng Hongye Technology Co.Ltd.
Address : Building C, Guancheng Science and Technology Park, Zhenxing Road,Carp River Industrial Zone,Gongming, Shenzhen City,China

Product description

Product name : 10.6 inch MID
Model and/or type reference : TM106A510L
Serial Model : TM1003Q,TM106A520L,TM106A530L

Standards : FCC Part15.247: 01 Oct. 2014

Test procedure..... ANSI C63.10-2013

This device described above has been tested by NTEK, 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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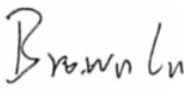
Date of Test.....:

Date (s) of performance of tests: 24 Aug. 2015 ~21 Sep. 2015

Date of Issue.....: 21 Sep. 2015

Test Result.....: **Pass**

Testing Engineer : 
 (Allen Liu)

Technical Manager : 
 (Brown Lu)

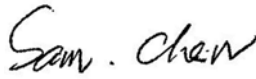
Authorized Signatory : 
 (Sam Chen)

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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)(1)	Hopping Channel Separation	PASS	
15.247(b)(1)	Peak Output Power	PASS	
15.247(c)	Radiated Spurious Emission	PASS	
15.247(a)(iii)	Number of Hopping Frequency	PASS	
15.247(a)(iii)	Dwell Time	PASS	
15.247(a)(1)	Bandwidth	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

NTEK Testing Technology Co., Ltd

Add. : 1/F, Building E, Fenda Science Park, Sanwei Community, Xixiang Street, Bao'an District, Shenzhen P.R. China.

FCC Registration No.:238937; IC Registration No.:9270A-1

CNAS Registration No.:L5516

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded 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	10.6 inch MID	
Trade Name	NuVision	
Model Name	TM106A510L	
Serial Model	TM1003Q,TM106A520L,TM106A530L	
Model Difference	All the model are the same circuit and RF module, except the model name.	
Product Description	The EUT is a 10.6 inch MID	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	BT(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
	Bit Rate of Transmitter	1Mbps/2Mbps/3Mbps
	Number Of Channel	79 CH
	Antenna Designation:	Please see Note 3.
	Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.	
Channel List	Please refer to the Note 2.	
Adapter	Model:JK050250-S04US Input: 100-240V~,50/60 Hz,0.5A Output: 5.0V $\overline{\text{---}}$,2500mA	
Battery	DC 3.7V ,6000mAh	
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.

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

3.

Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	NOTE
1	N/A	N/A	FPCB Antenna	N/A	1.0	BT Antenna

2.2 DESCRIPTION OF TEST MODES

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

Pretest Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78
Mode 4	normal link

For Conducted Emission	
Final Test Mode	Description
Mode 4	normal link

For Radiated Emission	
Final Test Mode	Description
Mode 1	CH00
Mode 2	CH39
Mode 3	CH78

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The EUT use new battery.
- (3)The data rate was set in 3Mbps for radiated emission due to the highest RF output power.

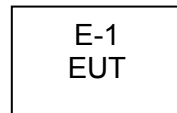
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

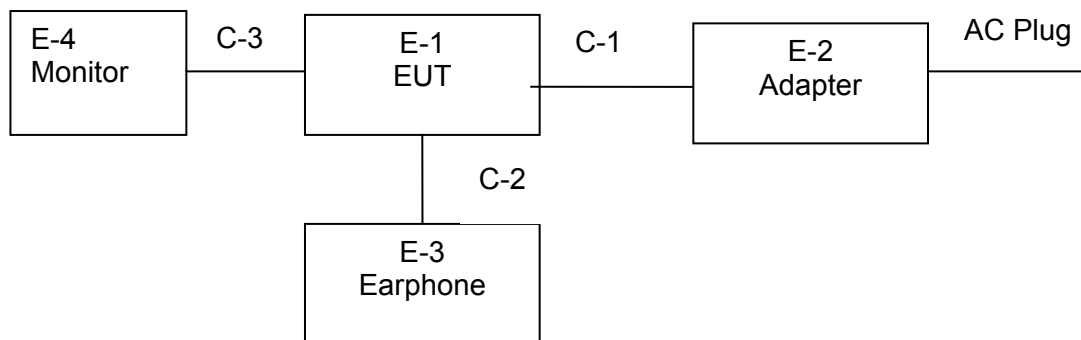
Test software Version	Test program: Broadcom		
Frequency	2402 MHz	2441 MHz	2480 MHz
Parameters(1/2/3Mbps)	DEF	DEF	DEF

2.4 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test



Conducted Emission Test



2.5 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

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	10.6 inch MID	NuVision	TM106A510L	N/A	EUT
E-2	ADAPTER	N/A	JK050250-S04US	N/A	
E-3	Earphone	N/A	2688	N/A	
E-4	Monitor	SONY	KDL-24EX520	6450750	

Item	Shielded Type	Ferrite Core	Length	Note
C-1	NO	NO	1.2m	
C-2	NO	NO	1.0m	
C-3	NO	NO	1.0m	

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.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

2.6 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4407B	MY45108040	2015.07.06	2016.07.05	1 year
2	Test Receiver	R&S	ESPI	101318	2015.06.07	2016.06.06	1 year
3	Bilog Antenna	TESEQ	CBL6111D	31216	2015.07.06	2016.07.05	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	2015.06.07	2016.06.06	1 year
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	2015.06.07	2016.06.06	1 year
6	Horn Antenna	EM	EM-AH-10180	2011071402	2015.07.06	2016.07.05	1 year
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	2015.07.06	2016.07.05	1 year
8	Amplifier	EM	EM-30180	060538	2014.12.22	2015.12.21	1 year
9	Loop Antenna	ARA	PLA-1030/B	1029	2015.06.08	2016.06.07	1 year
10	Power Meter	R&S	NRVS	100696	2015.07.06	2016.07.05	1 year
11	Power Sensor	R&S	URV5-Z4	0395.1619.05	2015.07.06	2016.07.05	1 year
12	Test Cable	N/A	R-01	N/A	2015.07.06	2016.07.05	1 year
13	Test Cable	N/A	R-02	N/A	2015.07.06	2016.07.05	1 year

Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2015.06.06	2016.06.05	1 year
2	LISN	R&S	ENV216	101313	2015.08.24	2016.08.23	1 year
3	LISN	EMCO	3816/2	00042990	2015.08.24	2016.08.23	1 year
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	2015.06.07	2016.06.06	1 year
5	Passive Voltage Probe	R&S	ESH2-Z3	100196	2015.06.07	2016.06.06	1 year
6	Absorbing clamp	R&S	MOS-21	100423	2015.06.08	2016.06.07	1 year
7	Test Cable	N/A	C01	N/A	2015.06.08	2016.06.07	1 year
8	Test Cable	N/A	C02	N/A	2015.06.08	2016.06.07	1 year
9	Test Cable	N/A	C03	N/A	2015.06.08	2016.06.07	1 year

1	Attenuation	MCE	24-10-34	BN9258	2015.06.08	2016.06.07	1 year
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3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

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

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

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

Note:

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

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

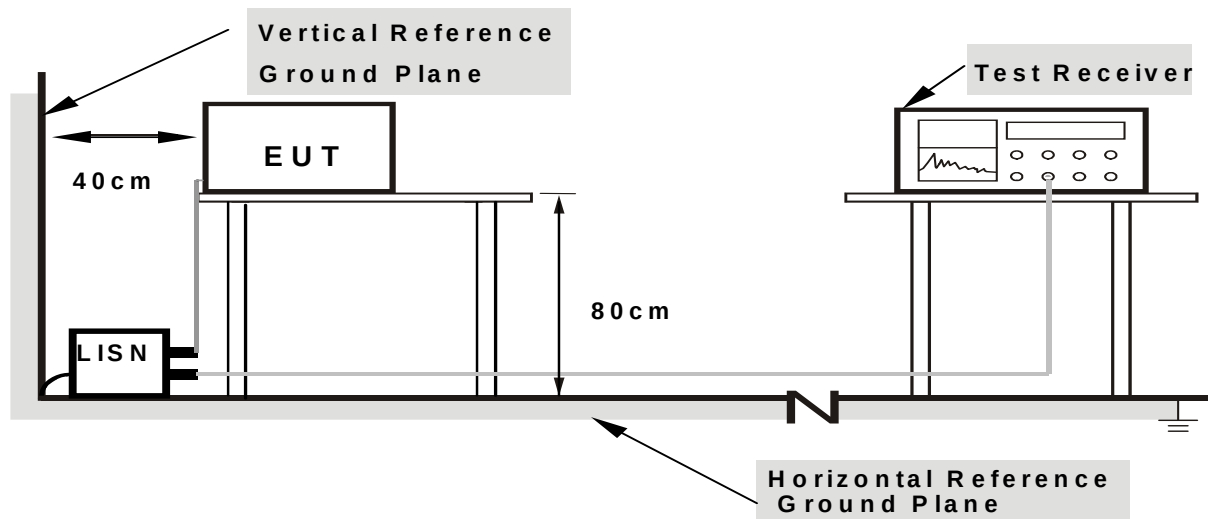
3.1.2 TEST PROCEDURE

- The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

3.1.3 DEVIATION FROM TEST STANDARD

No deviation

3.1.4 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 cm from other units and other metal planes

3.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

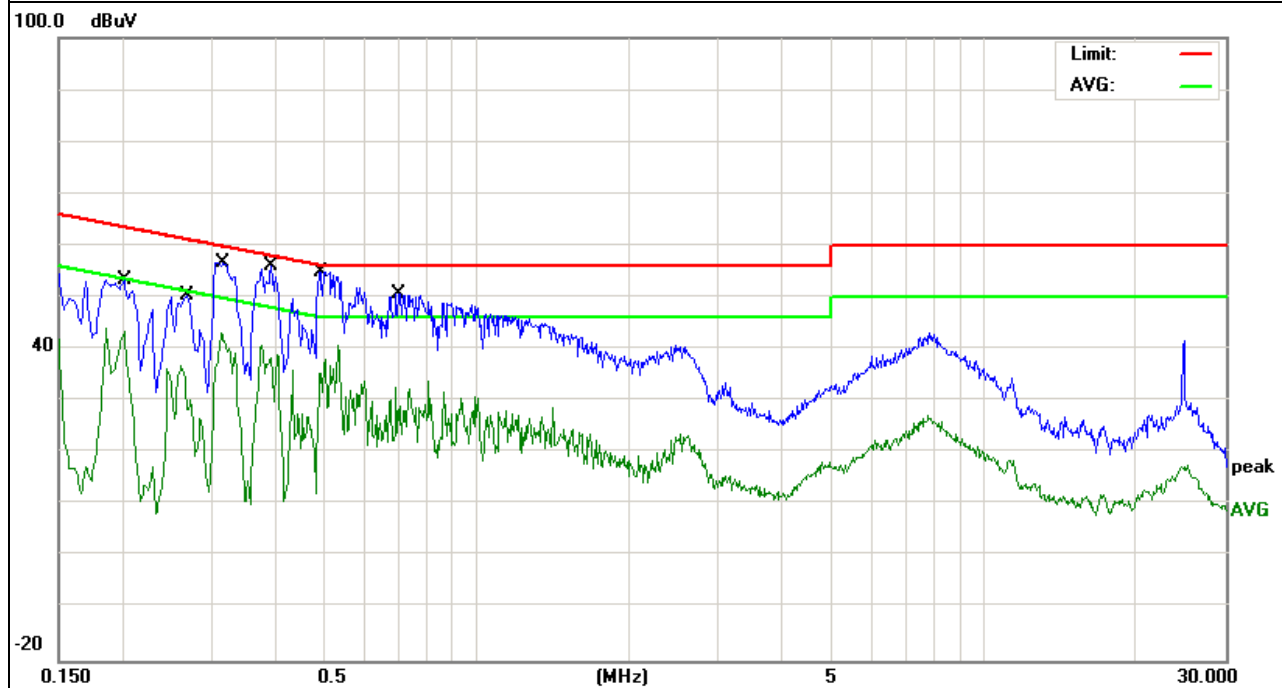
3.1.6 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2020	43.62	9.61	53.23	63.52	-10.29	QP
0.2020	34.38	9.61	43.99	53.52	-9.53	AVG
0.2700	40.63	9.62	50.25	61.12	-10.87	QP
0.2700	31.63	9.62	41.25	51.12	-9.87	AVG
0.3180	47.13	9.62	56.75	59.76	-3.01	QP
0.3180	35.60	9.62	45.22	49.76	-4.54	AVG
0.3940	43.38	9.64	53.02	57.98	-4.96	QP
0.3940	32.61	9.64	42.25	47.98	-5.73	AVG
0.4939	40.34	9.68	50.02	56.10	-6.08	QP
0.4939	30.01	9.68	39.69	46.10	-6.41	AVG
0.7018	41.05	9.64	50.69	56.00	-5.31	QP
0.7018	30.61	9.64	40.25	46.00	-5.75	AVG

Remark:

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

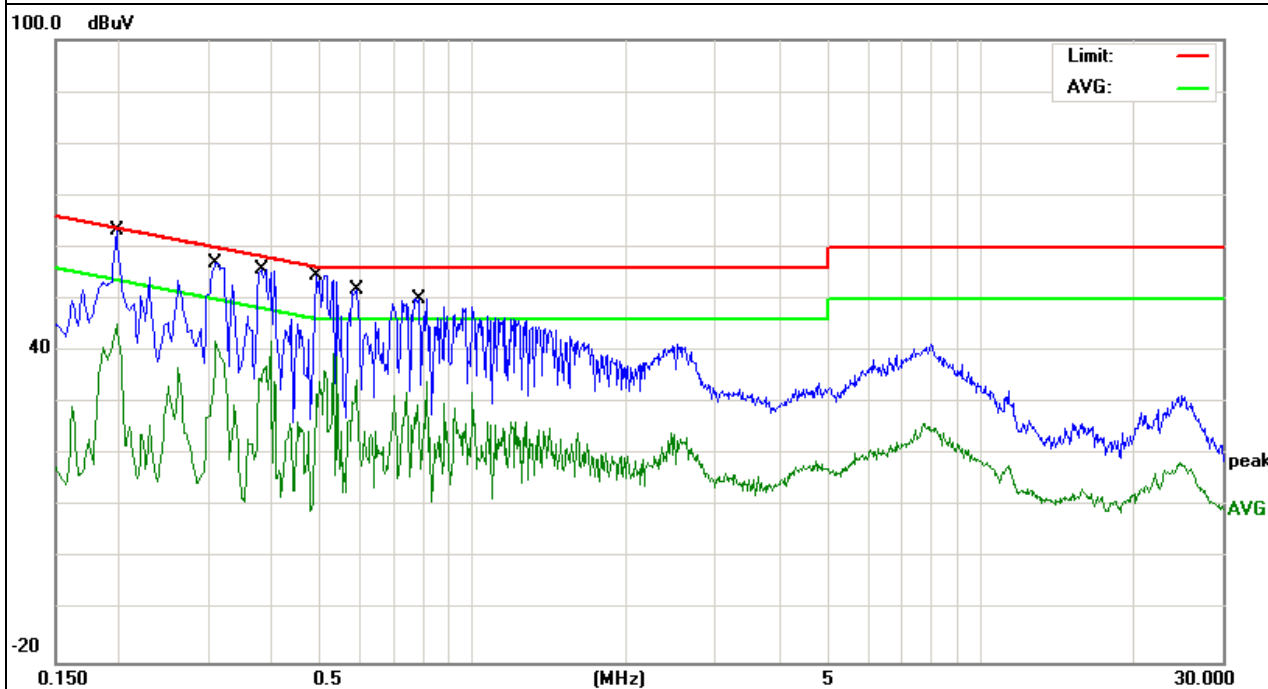


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from adapter AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1980	49.08	9.61	58.69	63.69	-5.00	QP
0.1980	40.04	9.61	49.65	53.69	-4.04	AVG
0.3099	45.74	9.62	55.36	59.97	-4.61	QP
0.3099	33.07	9.62	42.69	49.97	-7.28	AVG
0.3820	42.63	9.63	52.26	58.23	-5.97	QP
0.3820	30.73	9.63	40.36	48.23	-7.87	AVG
0.4899	40.01	9.68	49.69	56.17	-6.48	QP
0.4899	30.44	9.68	40.12	46.17	-6.05	AVG
0.5899	42.13	9.66	51.79	56.00	-4.21	QP
0.5899	30.46	9.66	40.12	46.00	-5.88	AVG
0.7820	40.54	9.63	50.17	56.00	-5.83	QP
0.7820	31.62	9.63	41.25	46.00	-4.75	AVG

Remark:

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

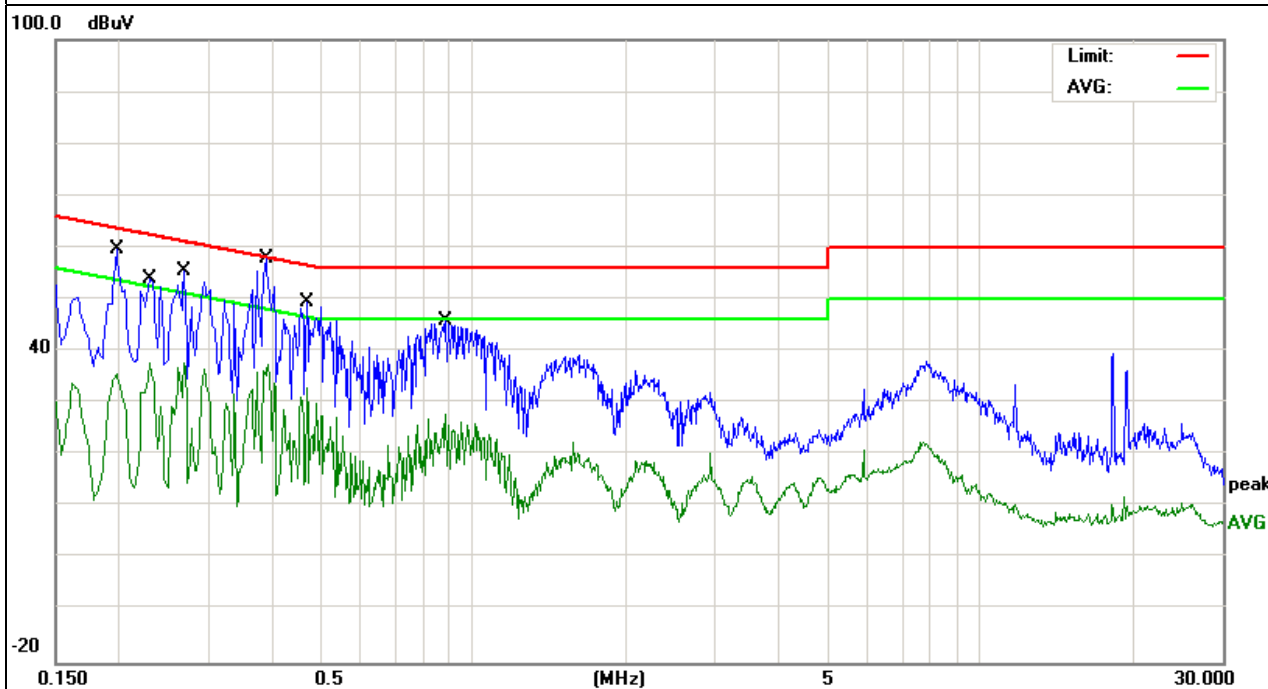


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from adapter AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1980	50.07	9.61	59.68	63.69	-4.01	QP
0.1980	39.69	9.61	49.30	53.69	-4.39	AVG
0.2300	44.49	9.61	54.10	62.45	-8.35	QP
0.2300	36.64	9.61	46.25	52.45	-6.20	AVG
0.2700	45.85	9.62	55.47	61.12	-5.65	QP
0.2700	31.96	9.62	41.58	51.12	-9.54	AVG
0.3899	42.83	9.64	52.47	58.06	-5.59	QP
0.3899	33.94	9.64	43.58	48.06	-4.48	AVG
0.4698	39.94	9.66	49.60	56.52	-6.92	QP
0.4698	30.34	9.66	40.00	46.52	-6.52	AVG
0.8820	36.13	9.63	45.76	56.00	-10.24	QP
0.8820	25.97	9.63	35.60	46.00	-10.40	AVG

Remark:

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

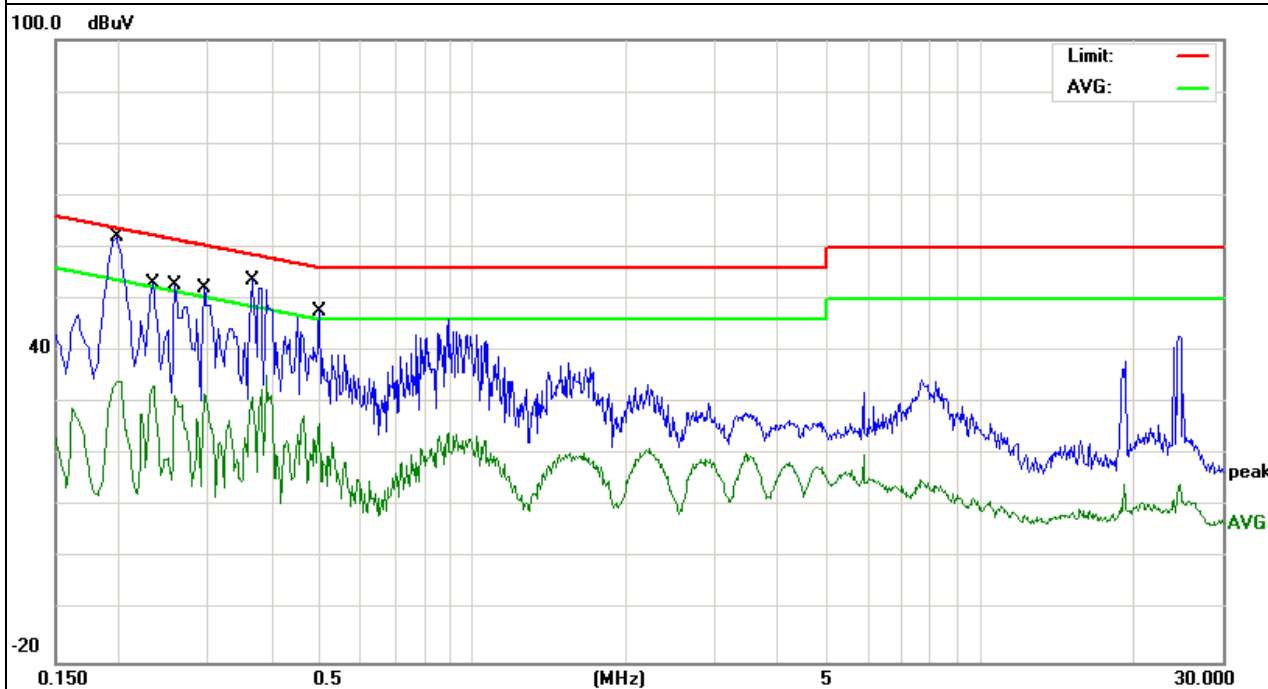


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from adapter AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1980	45.41	9.61	55.02	63.69	-8.67	QP
0.1980	36.75	9.61	46.36	53.69	-7.33	AVG
0.2340	43.48	9.61	53.09	62.30	-9.21	QP
0.2340	37.41	9.61	47.02	52.30	-5.28	AVG
0.2580	43.09	9.62	52.71	61.49	-8.78	QP
0.2580	34.77	9.62	44.39	51.49	-7.10	AVG
0.2938	42.57	9.61	52.18	60.41	-8.23	QP
0.2938	36.91	9.61	46.52	50.41	-3.89	AVG
0.3659	44.15	9.63	53.78	58.59	-4.81	QP
0.3659	32.03	9.63	41.66	48.59	-6.93	AVG
0.4979	38.02	9.68	47.70	56.03	-8.33	QP
0.4979	30.57	9.68	40.25	46.03	-5.78	AVG

Remark:

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

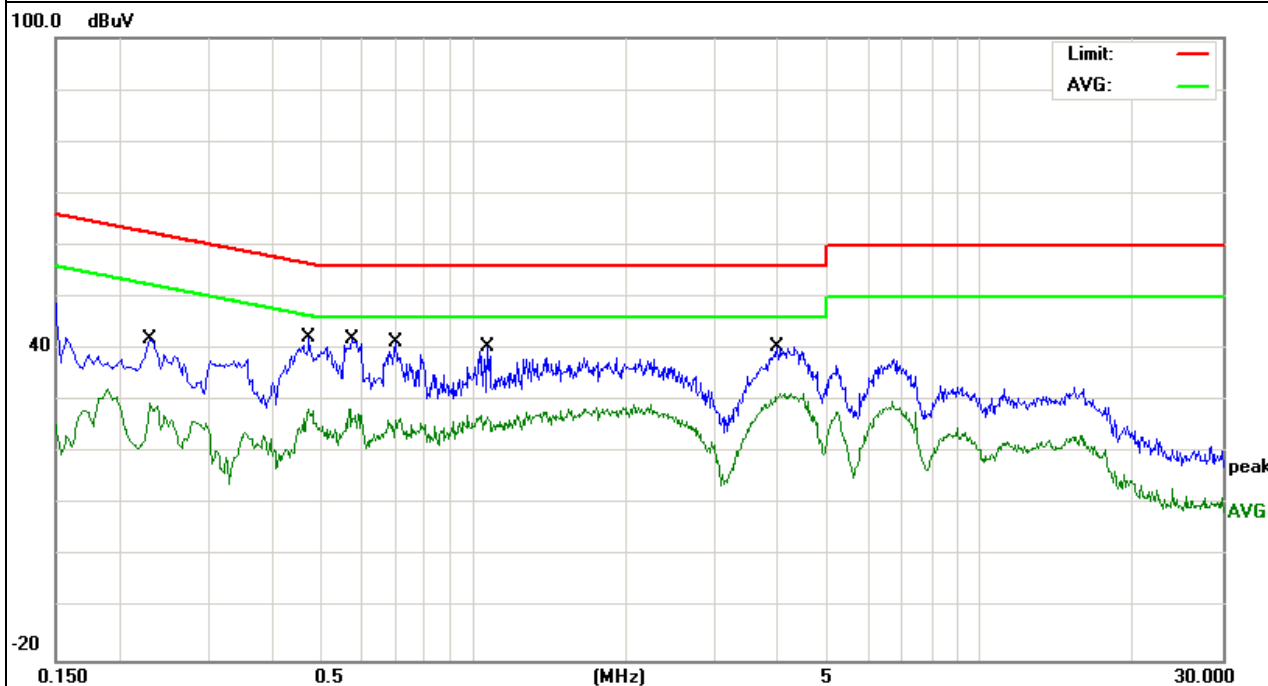


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from PC AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2300	32.27	9.65	41.92	62.45	-20.53	QP
0.2300	20.60	9.65	30.25	52.45	-22.20	AVG
0.4740	32.49	9.66	42.15	56.44	-14.29	QP
0.4740	21.40	9.66	31.06	46.44	-15.38	AVG
0.5780	32.09	9.77	41.86	56.00	-14.14	QP
0.5780	19.81	9.77	29.58	46.00	-16.42	AVG
0.7019	31.57	9.78	41.35	56.00	-14.65	QP
0.7019	18.91	9.78	28.69	46.00	-17.31	AVG
1.0660	30.67	9.73	40.40	56.00	-15.60	QP
1.0660	20.71	9.73	30.44	46.00	-15.56	AVG
3.9700	30.71	9.70	40.41	56.00	-15.59	QP
3.9700	21.52	9.70	31.22	46.00	-14.78	AVG

Remark:

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

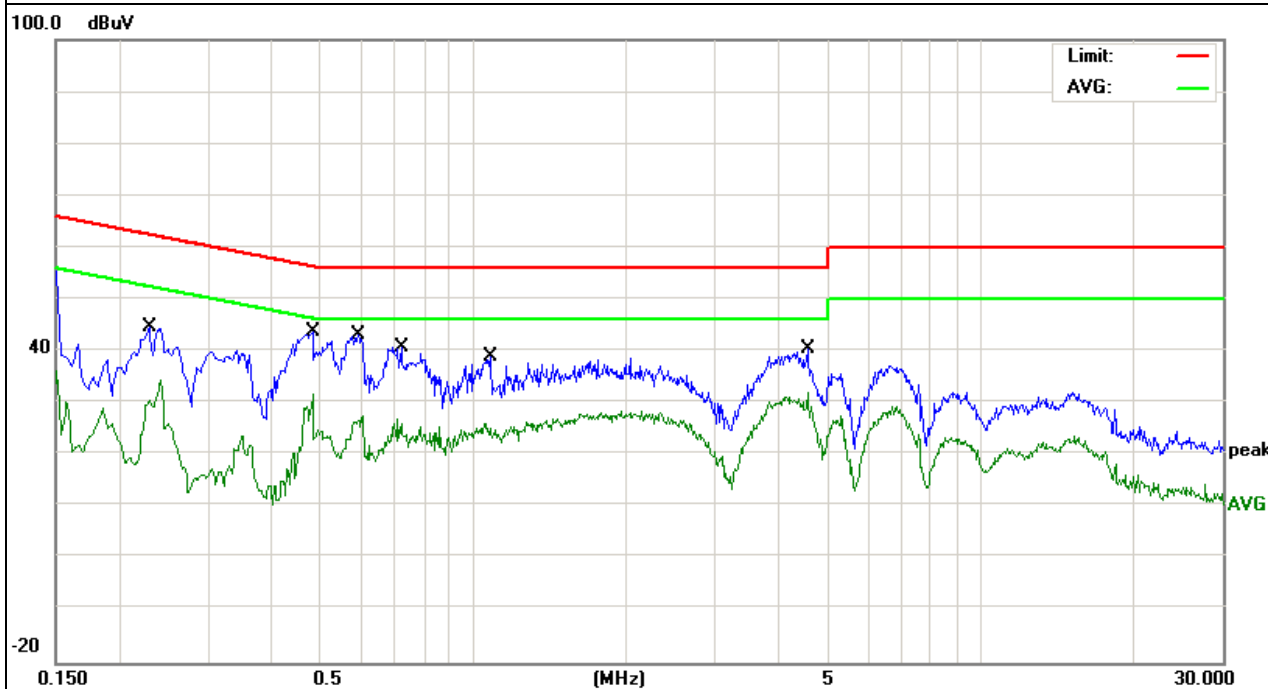


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from PC AC 120V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2300	35.07	9.61	44.68	62.45	-17.77	QP
0.2300	21.65	9.61	31.26	52.45	-21.19	AVG
0.4820	34.03	9.68	43.71	56.30	-12.59	QP
0.4820	22.80	9.68	32.48	46.30	-13.82	AVG
0.5940	33.61	9.66	43.27	56.00	-12.73	QP
0.5940	20.93	9.66	30.59	46.00	-15.41	AVG
0.7220	31.18	9.64	40.82	56.00	-15.18	QP
0.7220	20.05	9.64	29.69	46.00	-16.31	AVG
1.0820	29.34	9.60	38.94	56.00	-17.06	QP
1.0820	18.99	9.60	28.59	46.00	-17.41	AVG
4.5620	31.01	9.51	40.52	56.00	-15.48	QP
4.5620	21.26	9.51	30.77	46.00	-15.23	AVG

Remark:

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

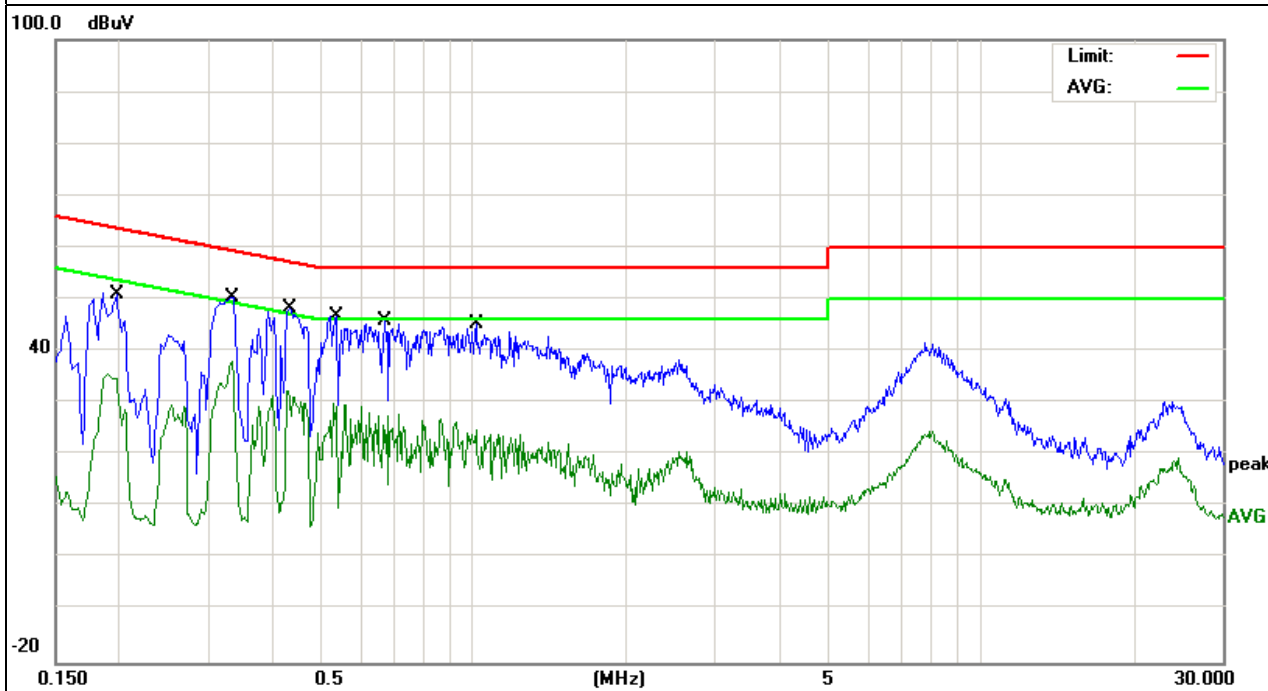


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 5.0V from PC AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1980	41.25	9.61	50.86	63.69	-12.83	QP
0.1980	29.64	9.61	39.25	53.69	-14.44	AVG
0.3339	40.86	9.62	50.48	59.35	-8.87	QP
0.3339	26.96	9.62	36.58	49.35	-12.77	AVG
0.4339	38.61	9.66	48.27	57.18	-8.91	QP
0.4339	24.12	9.66	33.78	47.18	-13.40	AVG
0.5380	37.03	9.67	46.70	56.00	-9.30	QP
0.5380	25.97	9.67	35.64	46.00	-10.36	AVG
0.6700	36.31	9.64	45.95	56.00	-10.05	QP
0.6700	27.38	9.64	37.02	46.00	-8.98	AVG
1.0140	35.55	9.61	45.16	56.00	-10.84	QP
1.0140	27.13	9.61	36.74	46.00	-9.26	AVG

Remark:

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

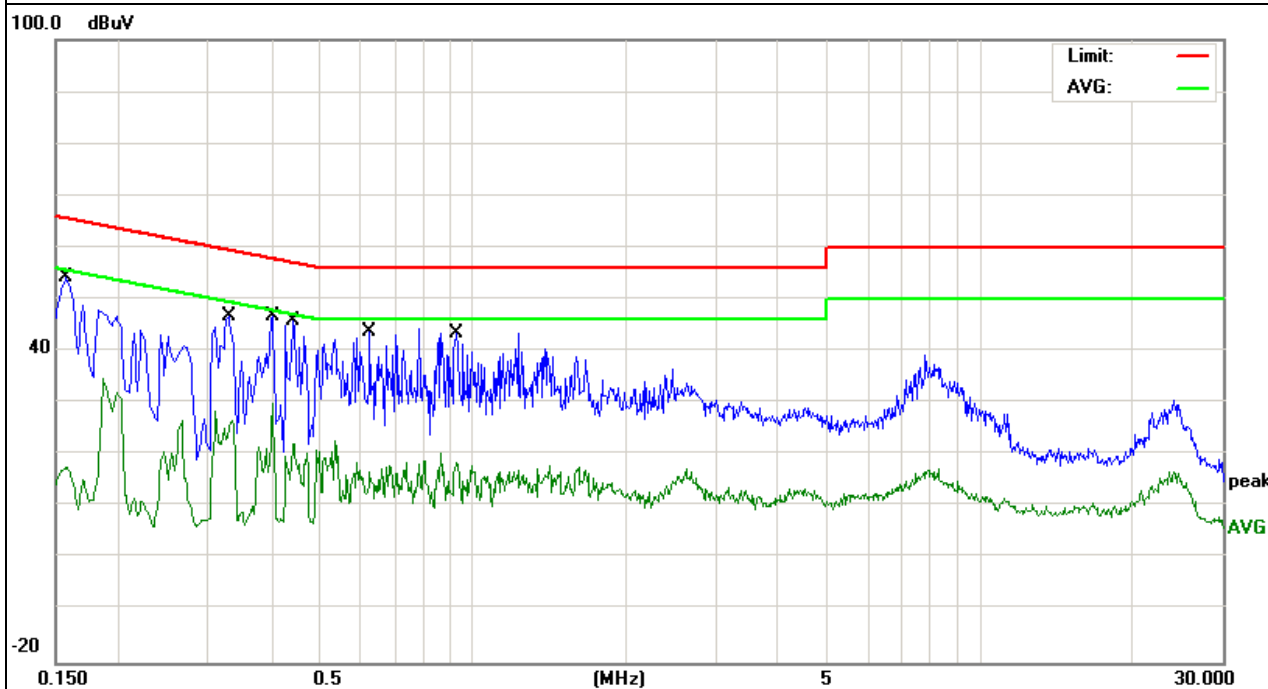


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 5.0V from PC AC 240V/60Hz	Test Mode :	Mode 4

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.1580	44.63	9.60	54.23	65.56	-11.33	QP
0.1580	36.79	9.60	46.39	55.56	-9.17	AVG
0.3300	37.19	9.62	46.81	59.45	-12.64	QP
0.3300	29.00	9.62	38.62	49.45	-10.83	AVG
0.4020	37.03	9.64	46.67	57.81	-11.14	QP
0.4020	22.61	9.64	32.25	47.81	-15.56	AVG
0.4420	36.18	9.66	45.84	57.02	-11.18	QP
0.4420	24.03	9.66	33.69	47.02	-13.33	AVG
0.6260	34.12	9.65	43.77	56.00	-12.23	QP
0.6260	21.93	9.65	31.58	46.00	-14.42	AVG
0.9260	33.95	9.62	43.57	56.00	-12.43	QP
0.9260	26.40	9.62	36.02	46.00	-9.98	AVG

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 (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

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

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

- 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.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; 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.
- 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.
- 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.
- 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

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

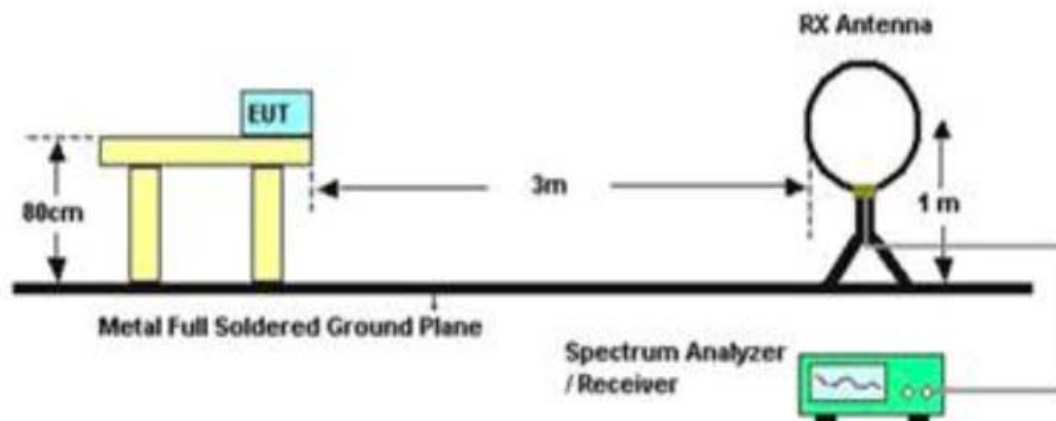
Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Peak	1 MHz	10 Hz

3.2.3 DEVIATION FROM TEST STANDARD

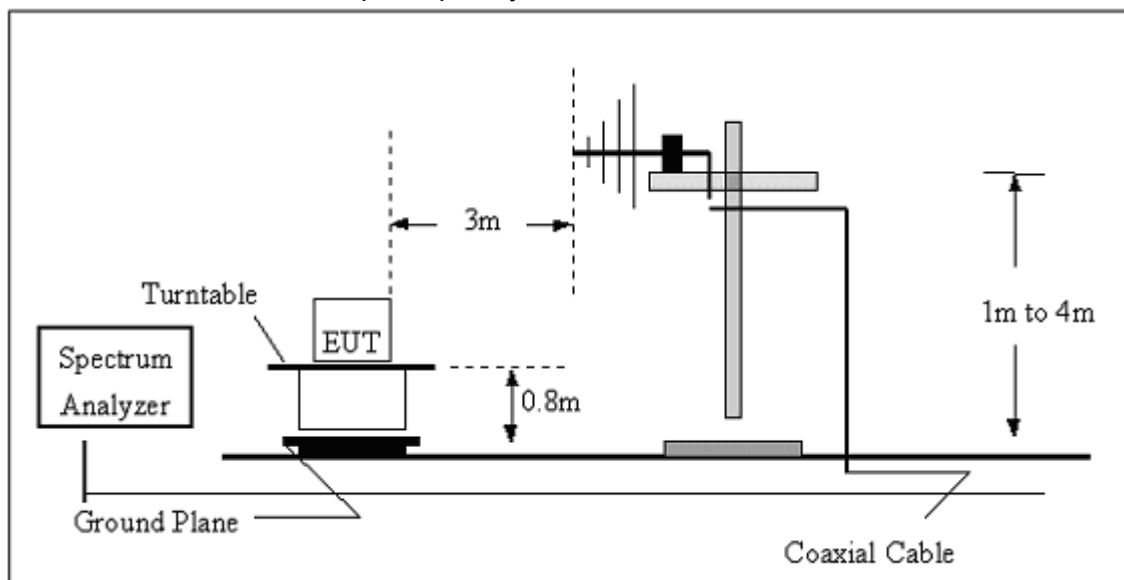
No deviation

3.2.4 TEST SETUP

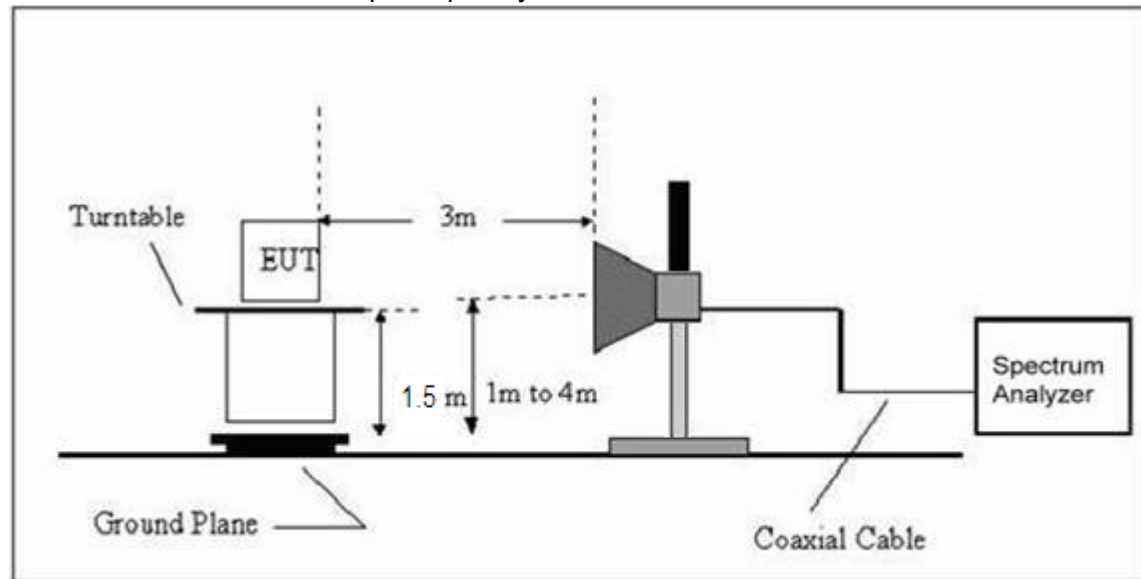
(A) Radiated Emission Test-Up Frequency Below 30MHz



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



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



3.2.5 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.2.6 TEST RESULTS (BELOW 30 MHZ)

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 3.7V
Test Mode :	TX	Polarization :	---

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

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 = $20 \log (\text{specific distance/test distance})$ (dB);

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

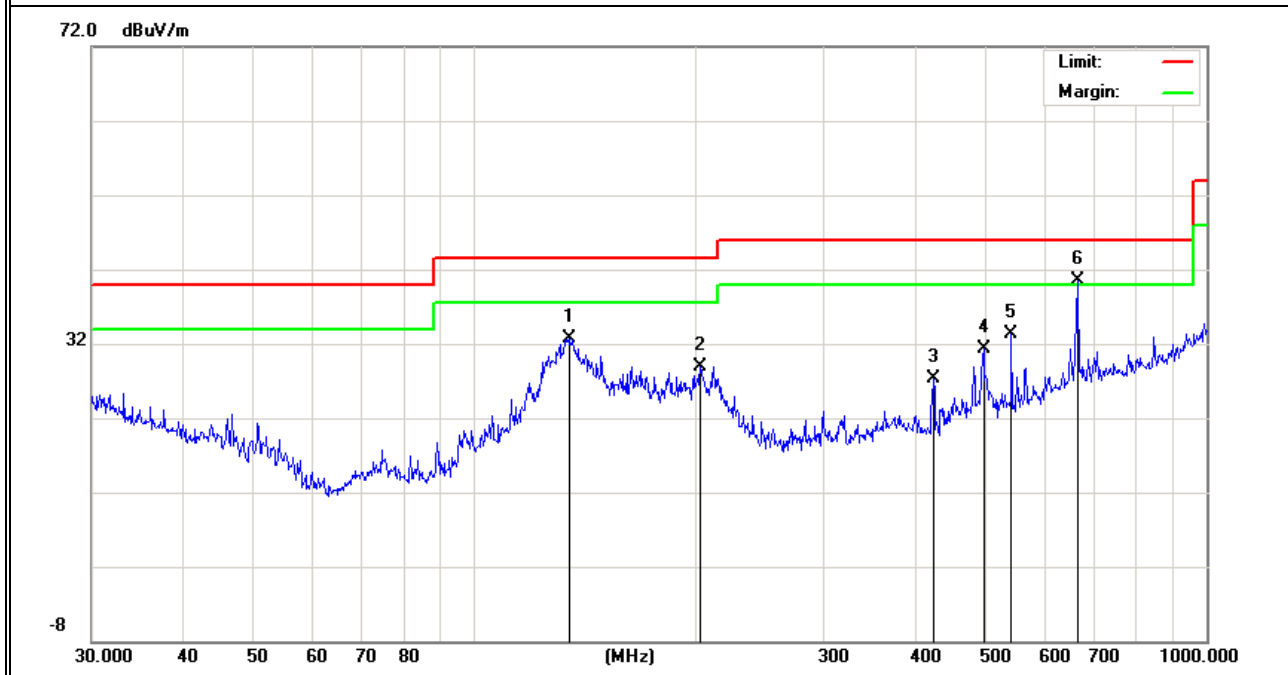
3.2.7 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010hPa	Test Mode :	TX
Test Voltage :	DC 3.7V		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	134.5592	21.76	10.97	32.73	43.50	-10.77	QP
V	203.5226	17.31	11.54	28.85	43.50	-14.65	QP
V	423.5403	12.52	14.74	27.26	46.00	-18.74	QP
V	495.9343	14.02	17.36	31.38	46.00	-14.62	QP
V	541.3725	15.44	17.90	33.34	46.00	-12.66	QP
V	665.8035	19.79	20.77	40.56	46.00	-5.44	QP

Remark:

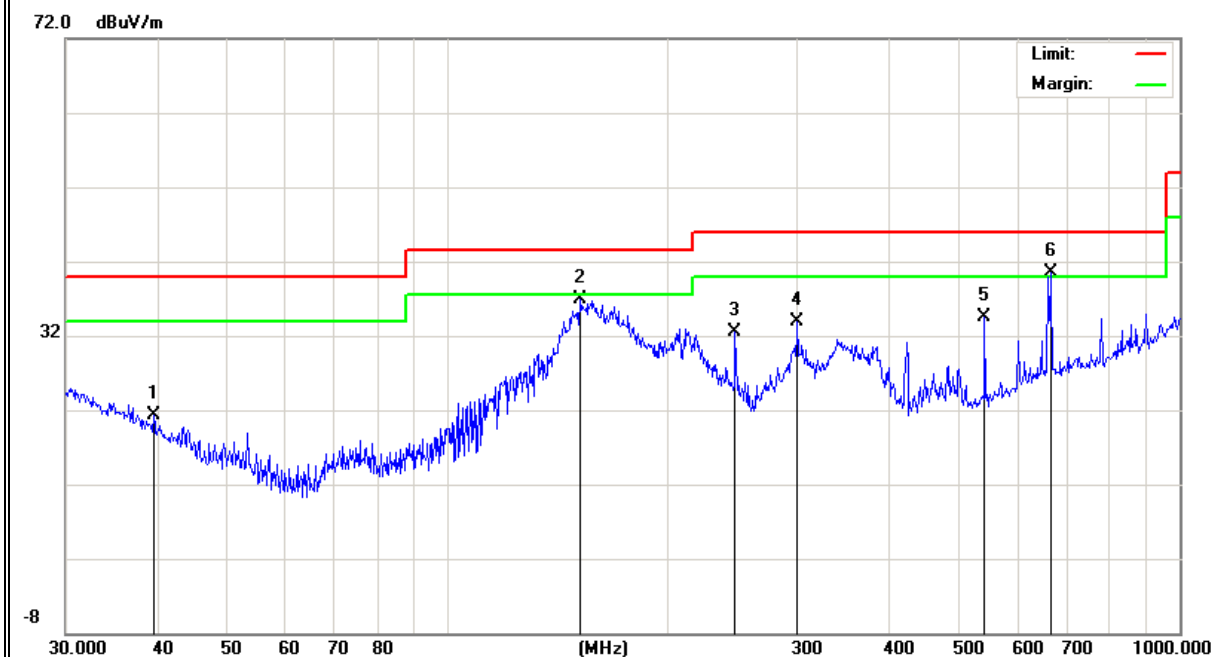
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	39.5757	6.56	14.80	21.36	40.00	-18.64	peak
H	151.5972	25.11	11.75	36.86	43.50	-6.64	peak
H	246.8148	21.73	10.71	32.44	46.00	-13.56	peak
H	300.3672	21.31	12.60	33.91	46.00	-12.09	peak
H	541.3725	16.68	17.90	34.58	46.00	-11.42	peak
H	665.8035	19.79	20.77	40.56	46.00	-5.44	peak

Remark:

Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



3.2.8 TEST RESULTS (ABOVE 1000 MHZ)

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010hPa	Test Mode :	TX
Test Mode :	DC 3.7V		

Frequency (MHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Remark	Comment
Low Channel (2402 MHz)-Above 1G							
4804.211	59.47	-3.64	55.83	74.00	-18.17	Pk	Vertical
4804.211	41.71	-3.64	38.07	54.00	-15.93	AV	Vertical
7206.324	52.58	-0.95	51.63	74.00	-22.37	Pk	Vertical
7206.324	37.65	-0.95	36.70	54.00	-17.30	AV	Vertical
4804.142	59.81	-3.64	56.17	74.00	-17.83	Pk	Horizontal
4804.142	41.62	-3.64	37.98	54.00	-16.02	AV	Horizontal
7206.052	53.88	-0.95	52.93	74.00	-21.07	Pk	Horizontal
7206.052	37.57	-0.95	36.62	54.00	-17.38	AV	Horizontal
Mid Channel (2441 MHz)-Above 1G							
4882.085	59.35	-3.68	55.67	74.00	-18.33	Pk	Vertical
4882.085	39.82	-3.68	36.14	54.00	-17.86	AV	Vertical
7323.175	55.82	-0.82	55.00	74.00	-19.00	Pk	Vertical
7323.175	40.63	-0.82	39.81	54.00	-14.19	AV	Vertical
4882.307	58.35	-3.68	54.67	74.00	-19.33	Pk	Horizontal
4882.307	39.49	-3.68	35.81	54.00	-18.19	AV	Horizontal
7323.209	55.72	-0.82	54.90	74.00	-19.10	Pk	Horizontal
7323.209	39.93	-0.82	39.11	54.00	-14.89	AV	Horizontal
High Channel (2480 MHz)- Above 1G							
4960.175	58.72	-3.59	55.13	74.00	-18.87	Pk	Vertical
4960.175	41.88	-3.59	38.29	54.00	-15.71	AV	Vertical
7440.263	53.19	-0.68	52.51	74.00	-21.49	Pk	Vertical
7440.263	37.43	-0.68	36.75	54.00	-17.25	AV	Vertical
4960.307	57.55	-3.59	53.96	74.00	-20.04	Pk	Horizontal
4960.307	39.72	-3.59	36.13	54.00	-17.87	AV	Horizontal
7440.089	53.09	-0.68	52.41	74.00	-21.59	Pk	Horizontal
7440.089	36.92	-0.68	36.24	54.00	-17.76	AV	Horizontal

Note: Mode 1Mbps is the worst mode.

4. NUMBER OF HOPPING CHANNEL

4.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)(iii)	Number of Hopping Channel	≥ 15	2400-2483.5	PASS

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	= the frequency band of operation
RB	RBW=100kHz
VB	VBW $\geq$ RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 100kHz, VBW=100kHz, Sweep time = Auto.

4.1.2 DEVIATION FROM STANDARD

No deviation.

4.1.3 TEST SETUP



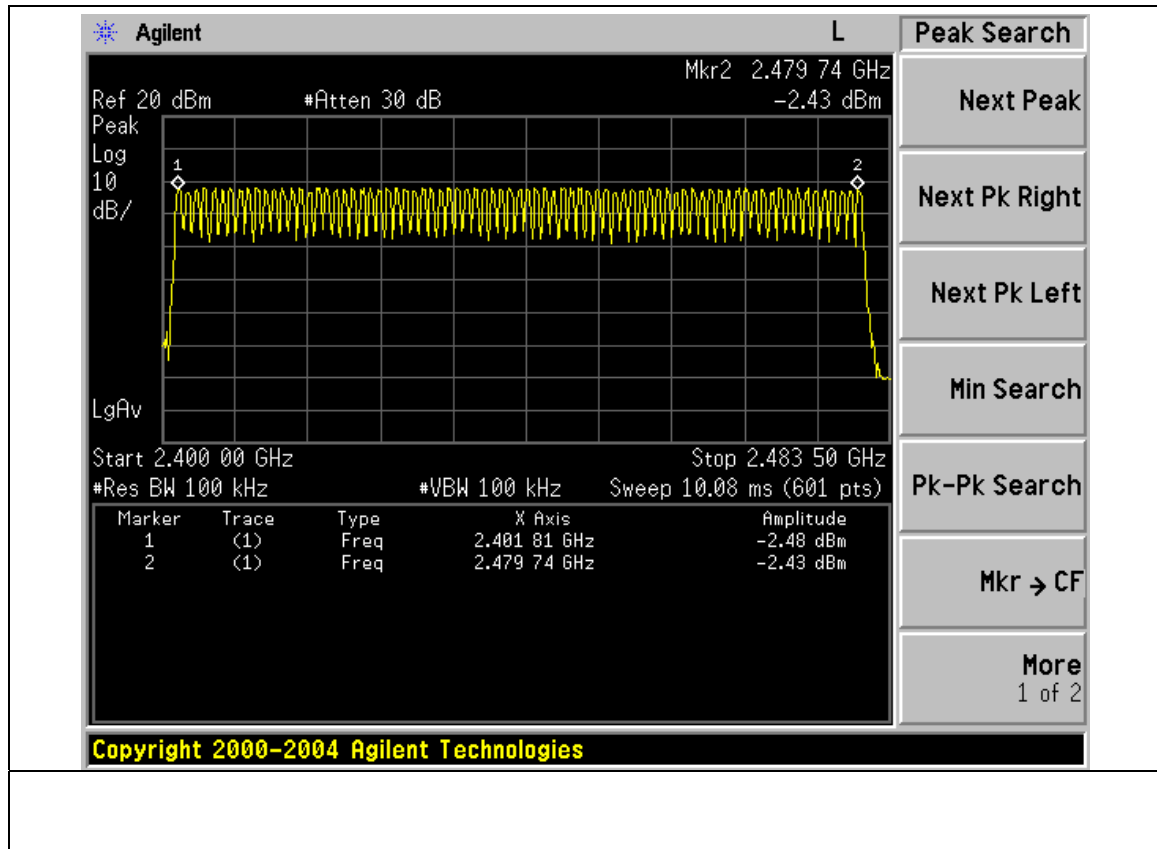
4.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

4.1.5 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1015 hPa	Test Voltage :	DC 3.7V
Test Mode :	Hopping Mode-GFSK		

Number of Hopping Channel	79
---------------------------	----



5. AVERAGE TIME OF OCCUPANCY

5.1 APPLIED PROCEDURES / LIMIT

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

5.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyzer
- Set RBW of spectrum analyzer to 1MHz and VBW to 1MHz.
- Use a video trigger with the trigger level set to enable triggering only on full pulses.
- Sweep Time is more than once pulse time.
- Set the center frequency on any frequency would be measure and set the frequency span to zero span.
- Measure the maximum time duration of one single pulse.
- Set the EUT for DH5, DH3 and DH1 packet transmitting.
- Measure the maximum time duration of one single pulse.
- A Period Time = (channel number)*0.4
 DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
 DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
 DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

5.1.2 DEVIATION FROM STANDARD

No deviation.

5.1.3 TEST SETUP



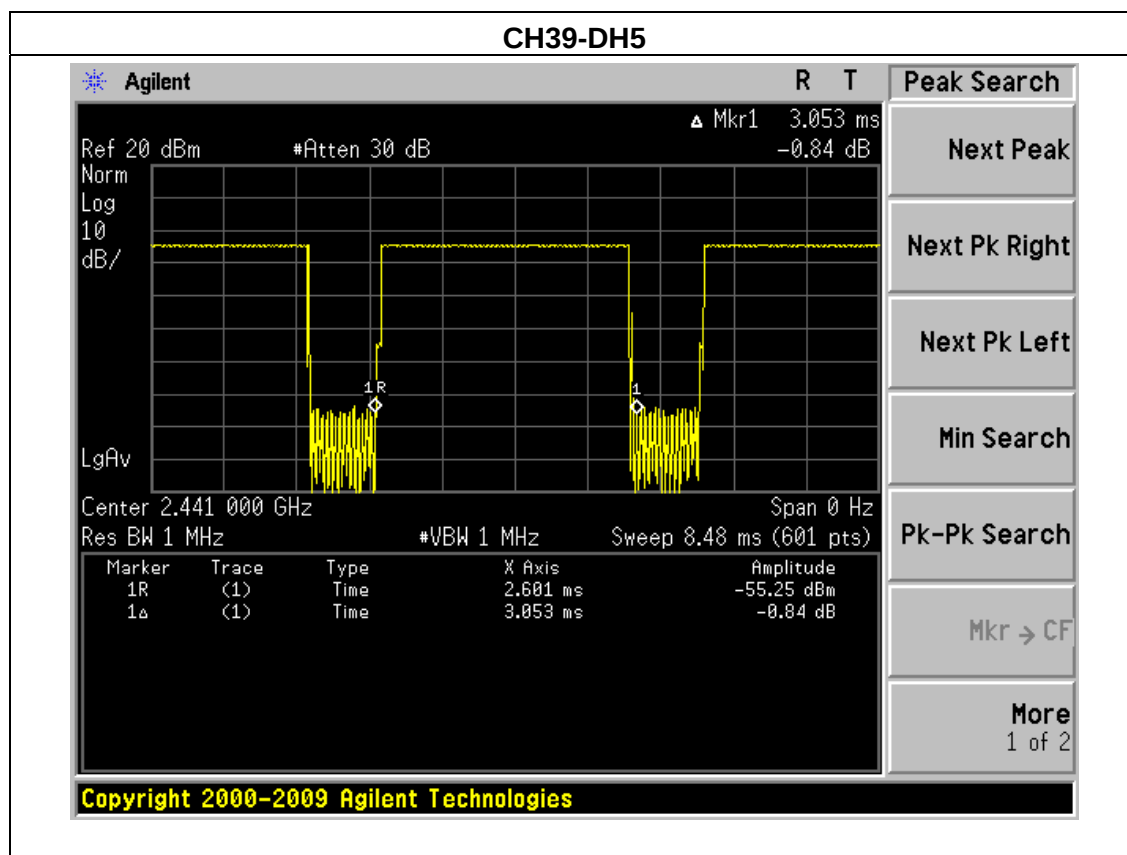
5.1.4 EUT OPERATION CONDITIONS

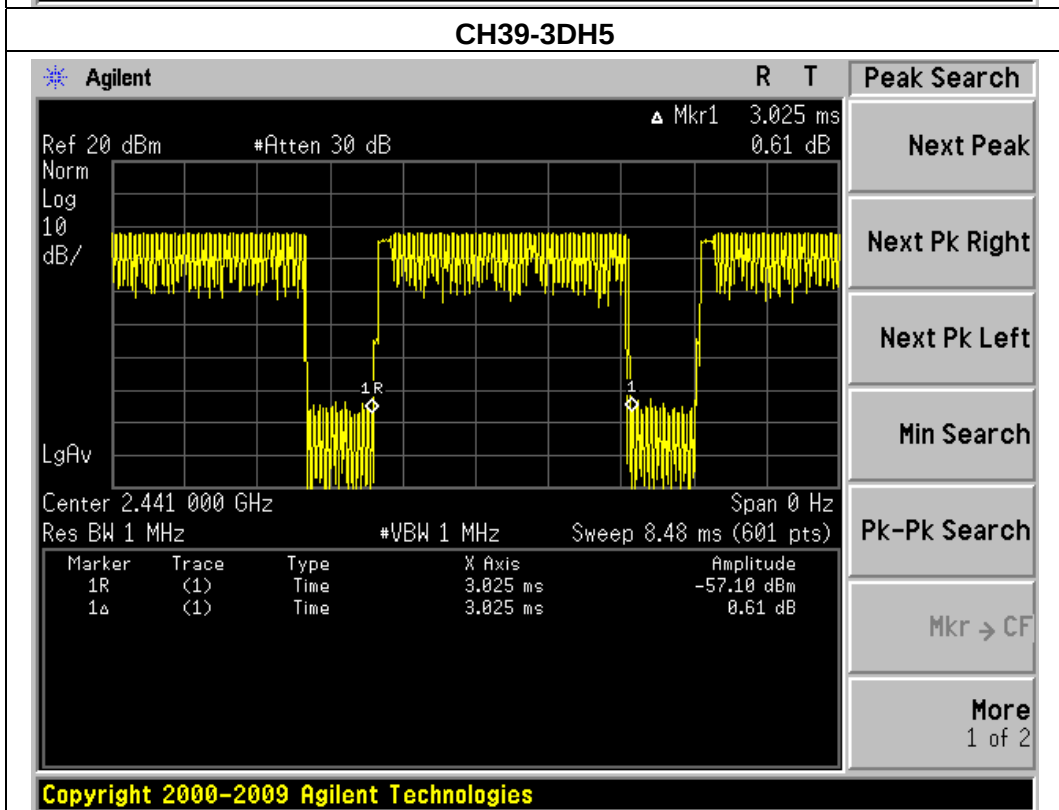
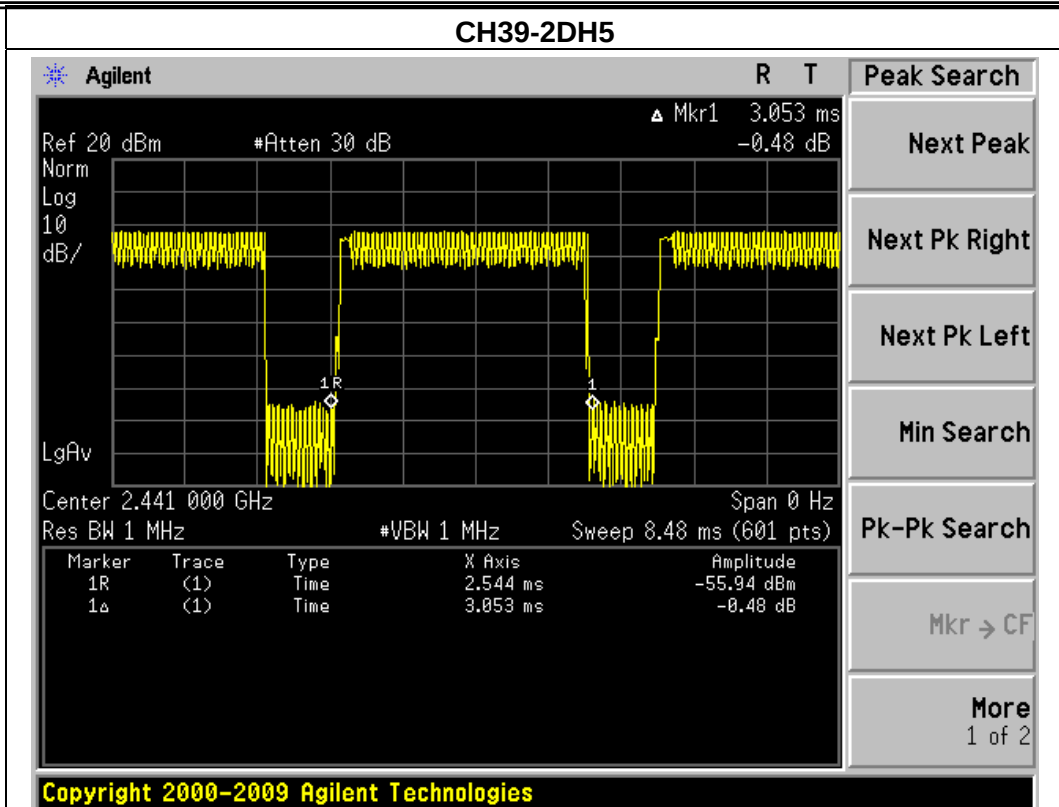
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.1.5 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH5 ,2DH5,3DH5		

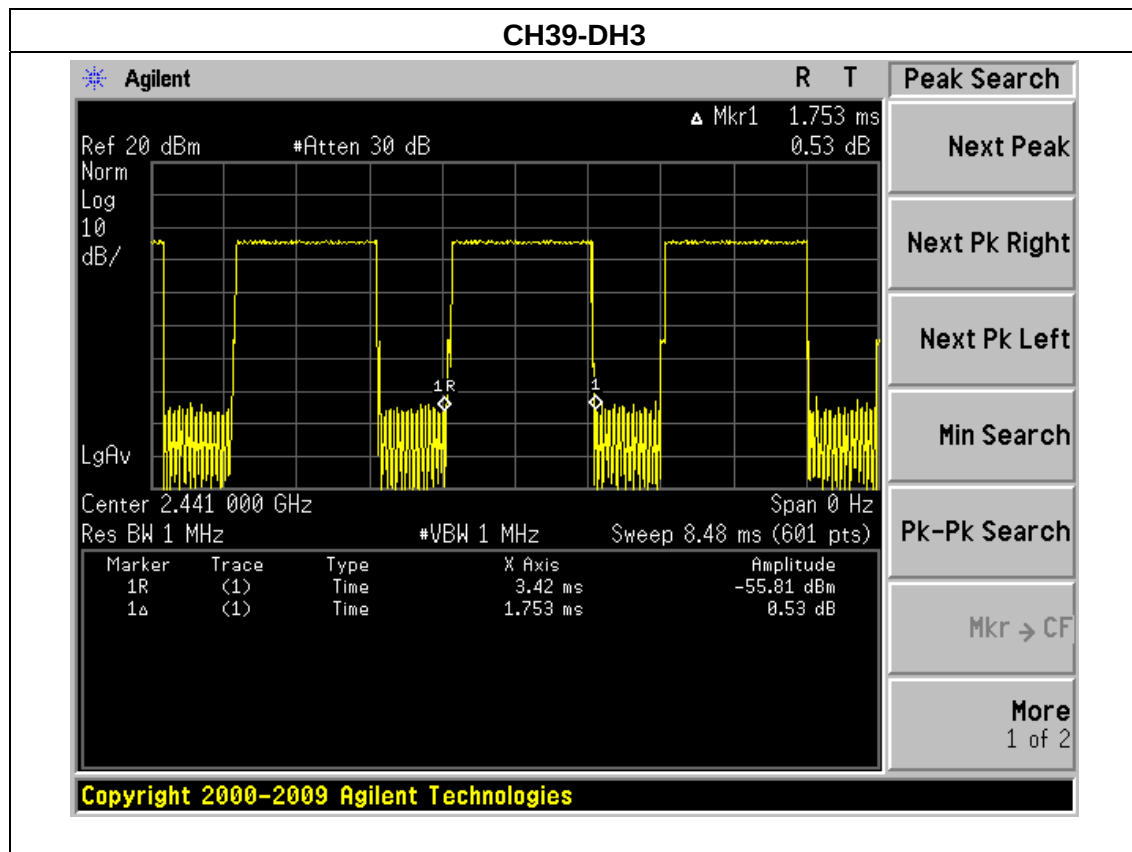
Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH5	2441 MHz	3.05	0.33	0.4
2DH5	2441 MHz	3.05	0.33	0.4
3DH5	2441 MHz	3.03	0.32	0.4



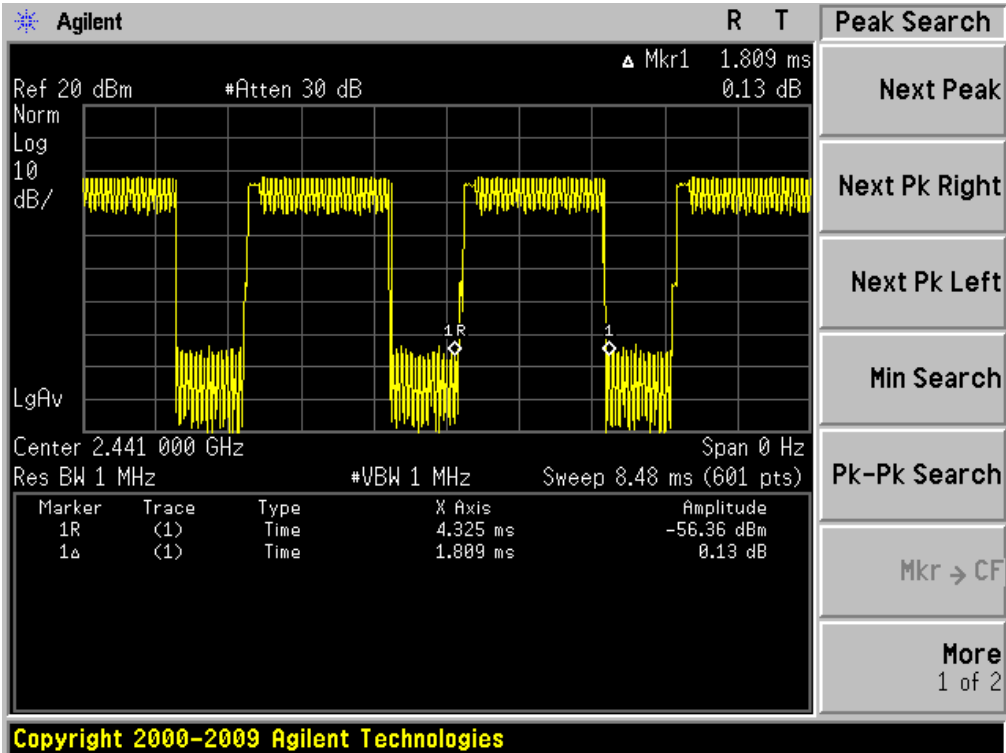


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH3,2DH3,3DH3		

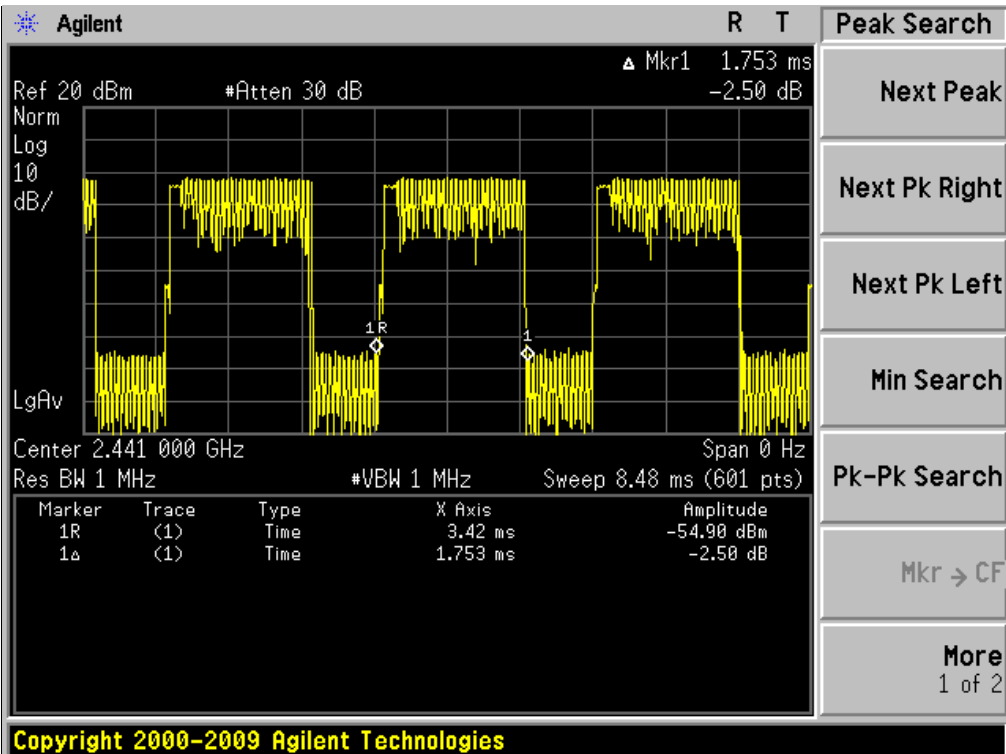
Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH3	2441 MHz	1.75	0.28	0.4
2DH3	2441 MHz	1.81	0.29	0.4
3DH3	2441 MHz	1.75	0.28	0.4



CH39-2DH3

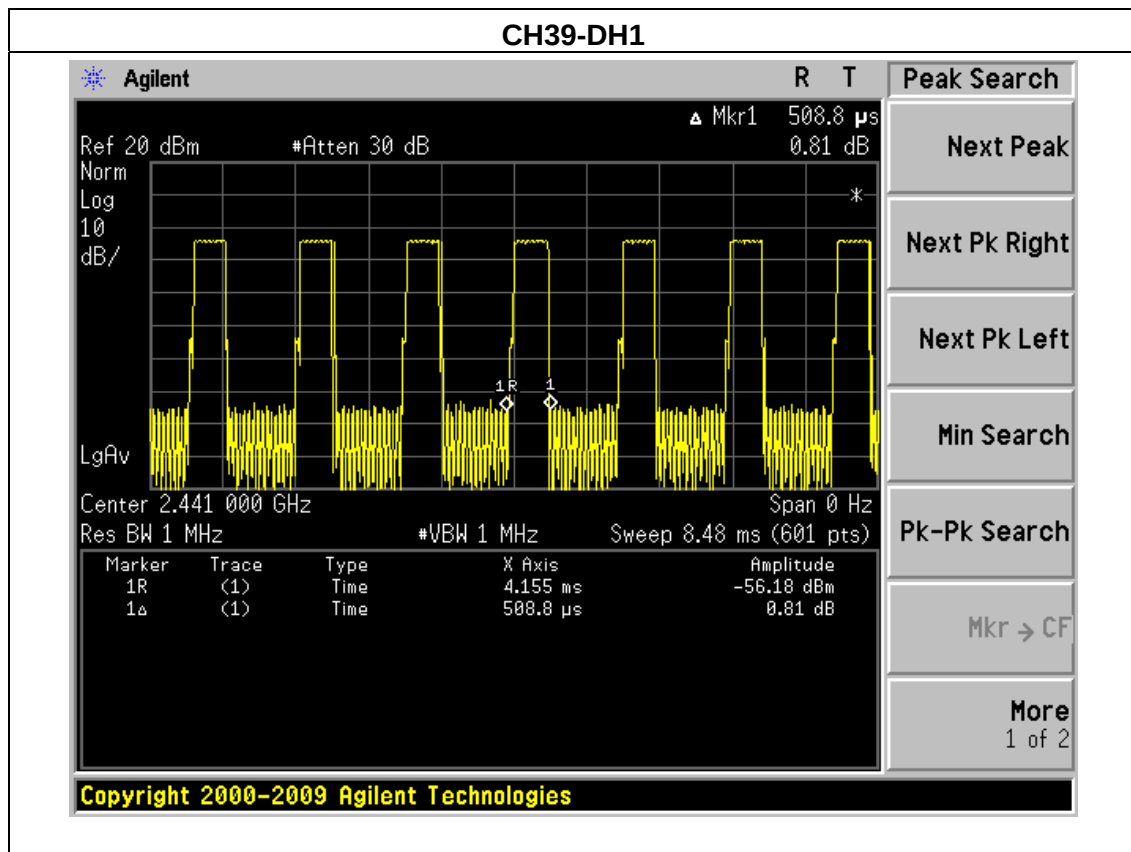


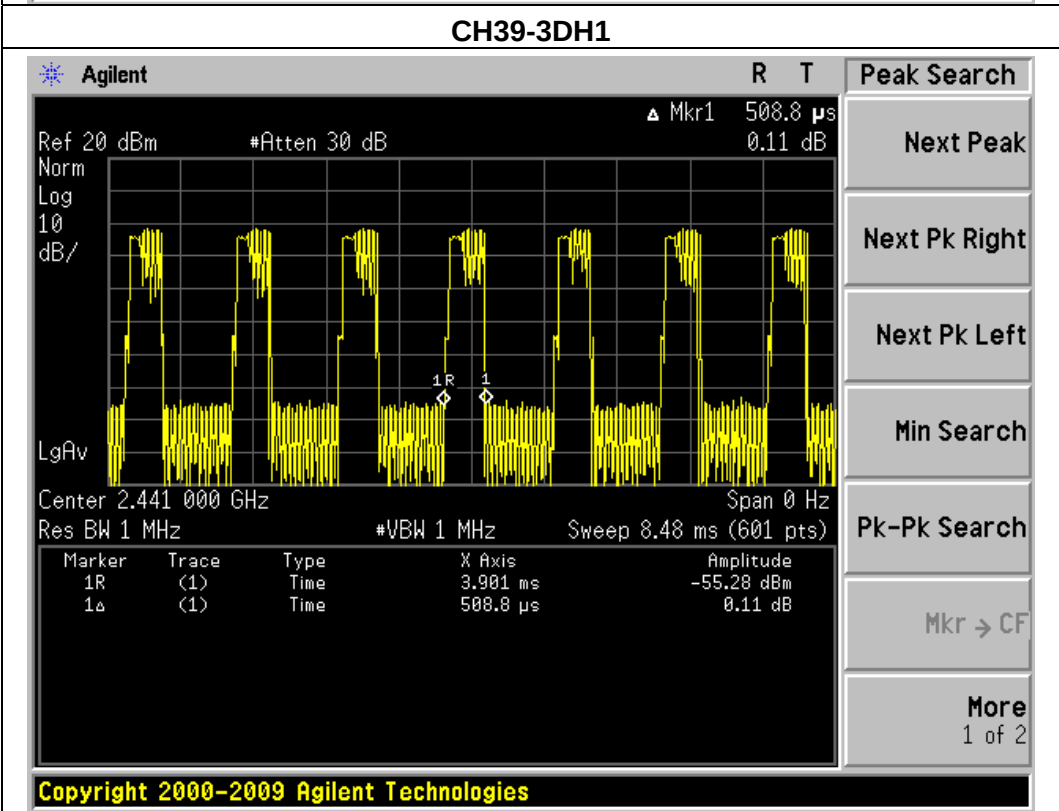
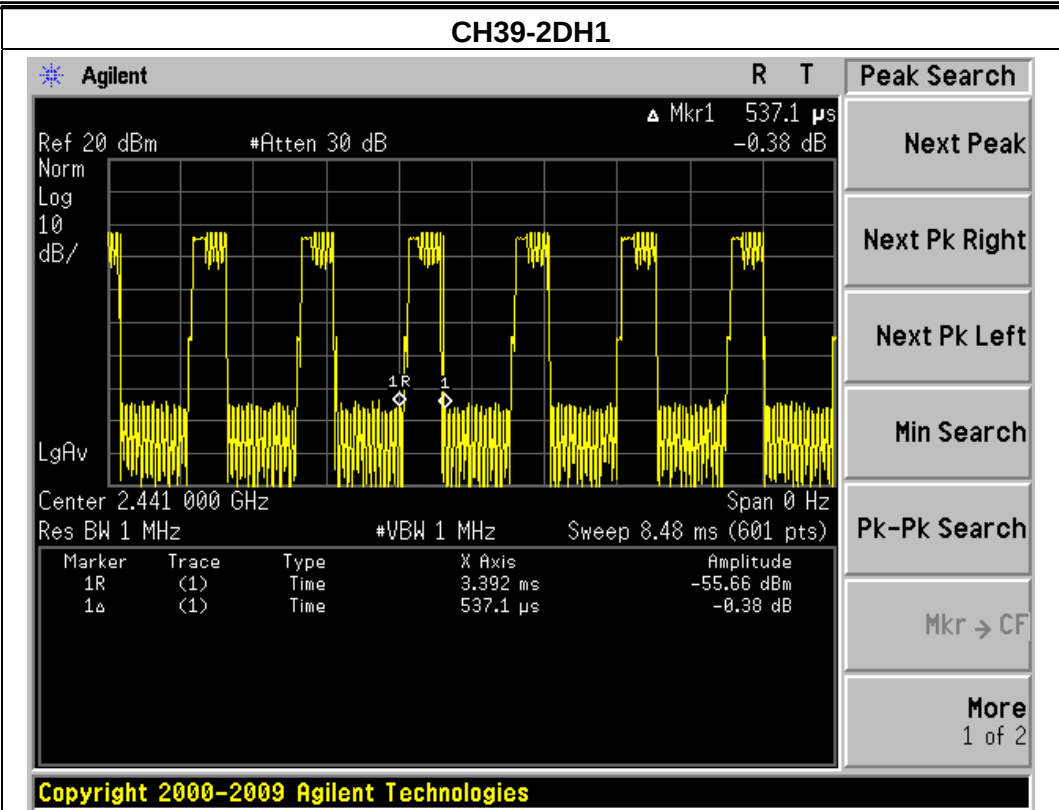
CH39-3DH3



EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH39-DH1,2DH1,3DH1		

Data Packet	Frequency	Pulse Duration	Dwell Time	Limits
		(ms)	(s)	(s)
DH1	2441 MHz	0.51	0.16	0.4
2DH1	2441 MHz	0.54	0.17	0.4
3DH1	2441 MHz	0.51	0.16	0.4





6. HOPPING CHANNEL SEPARATION MEASUREMENT

6.1 APPLIED PROCEDURES / LIMIT

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

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

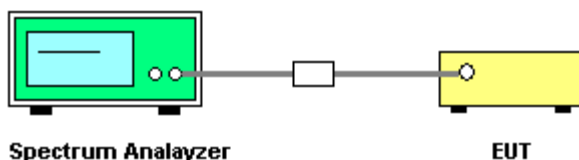
6.1.1 TEST PROCEDURE

- The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- The resolution bandwidth of 30 kHz and the video bandwidth of 100 kHz were utilised for channel separation measurement.

6.1.2 DEVIATION FROM STANDARD

No deviation.

6.1.3 TEST SETUP



6.1.4 EUT OPERATION CONDITIONS

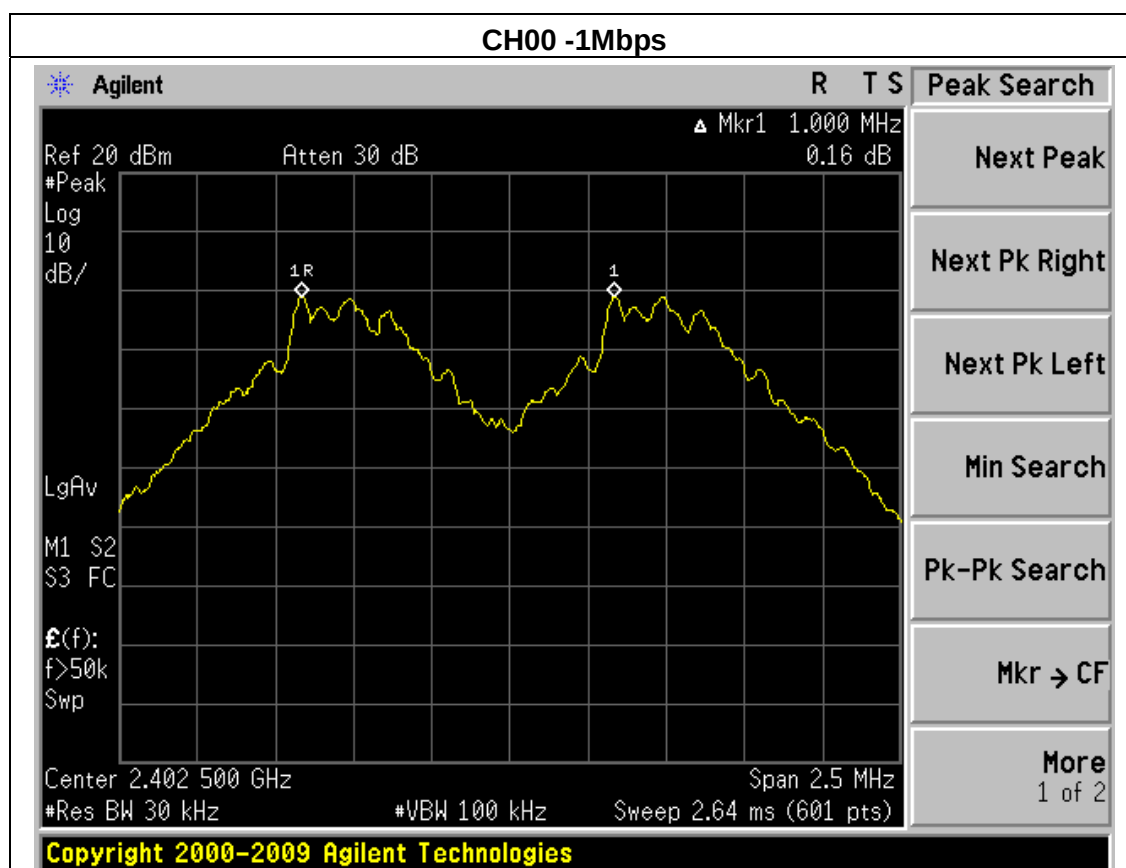
The EUT was programmed to be in continuously transmitting mode.

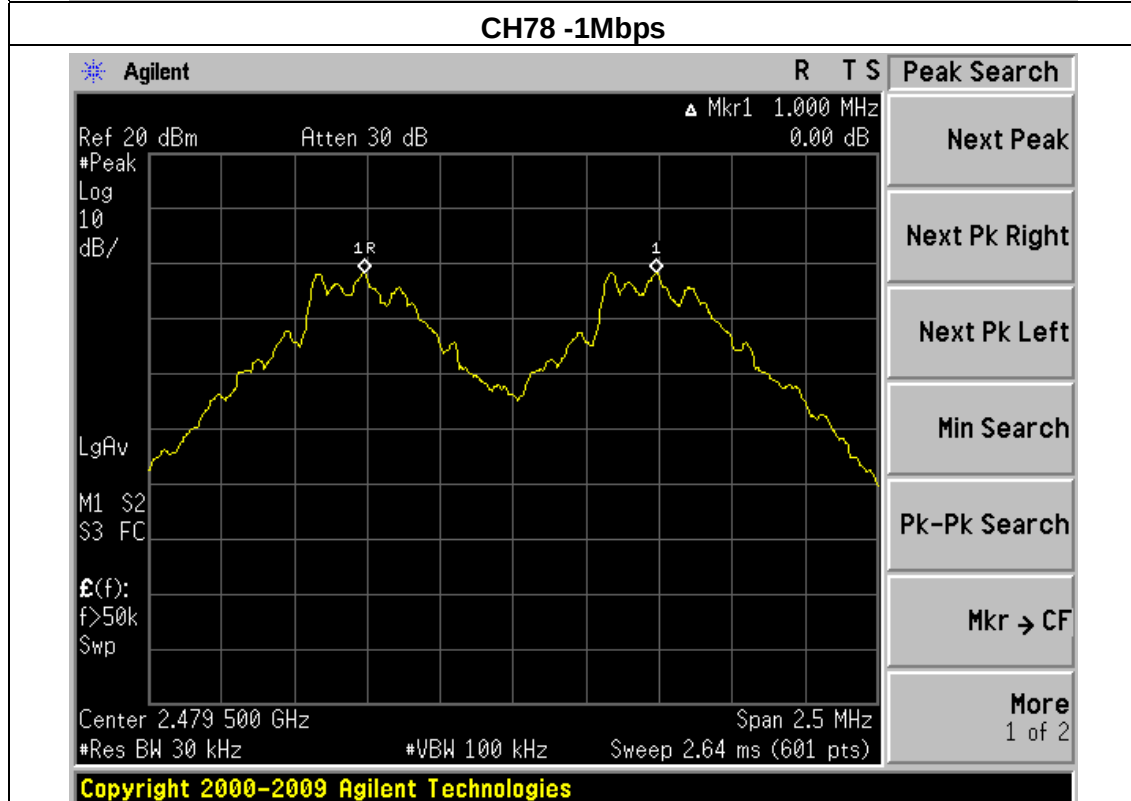
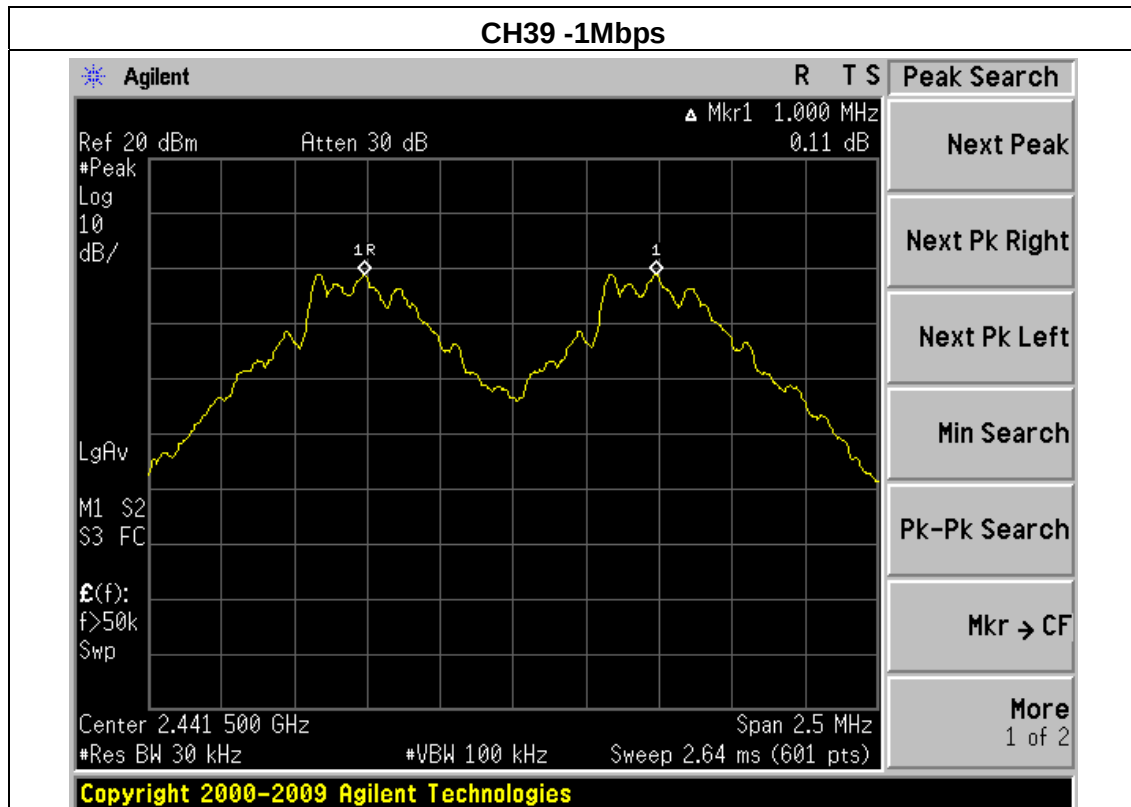
6.1.5 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (1Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	Complies
2441 MHz	1.000	Complies
2480 MHz	1.000	Complies

Ch. Separation Limits: > 20dB bandwidth

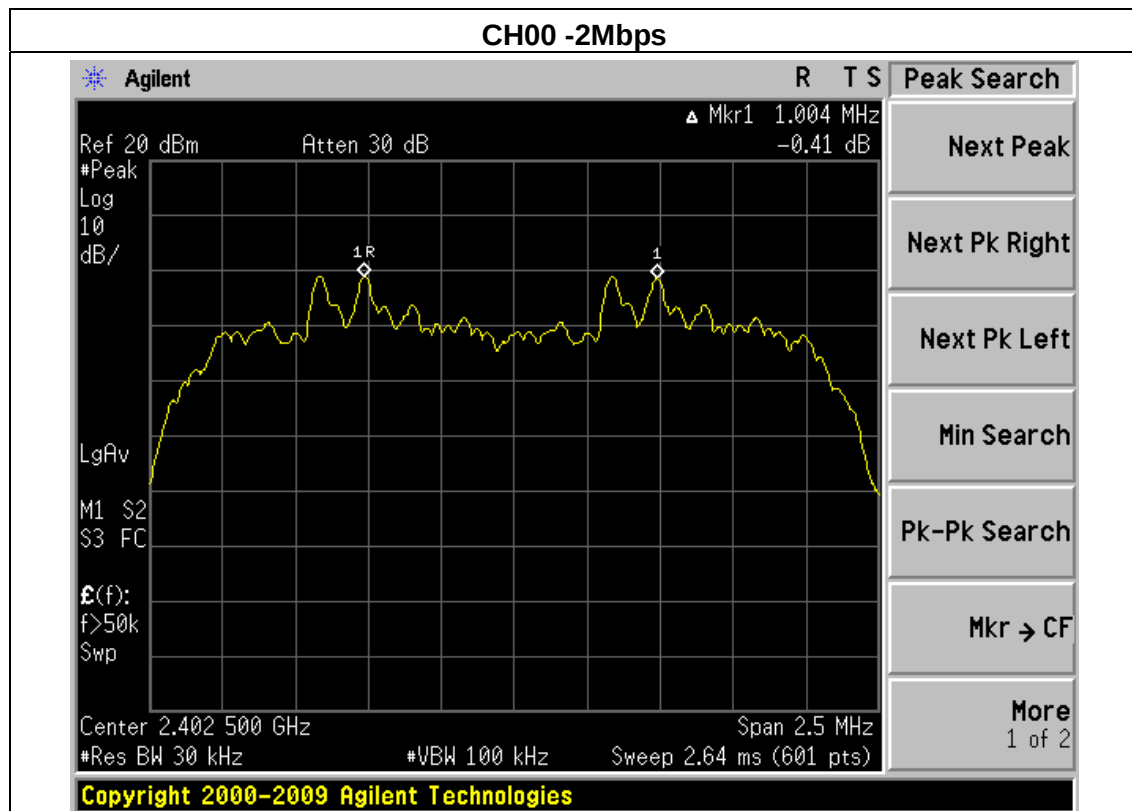


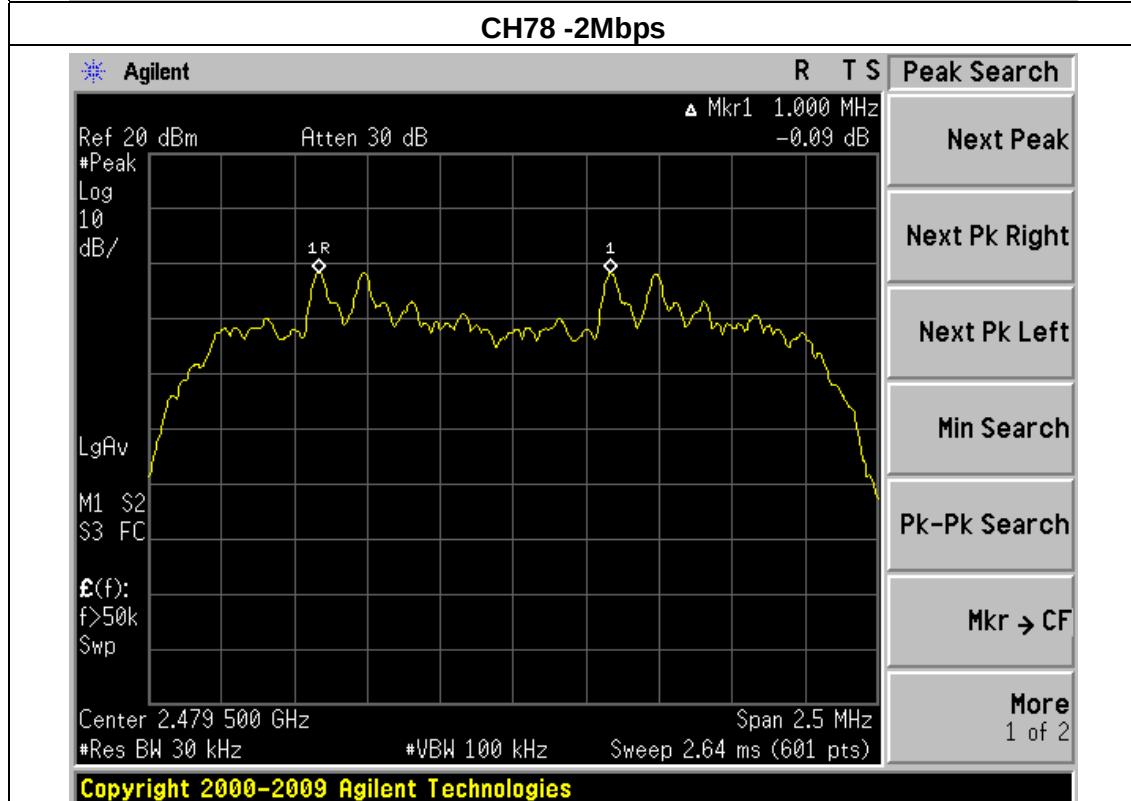
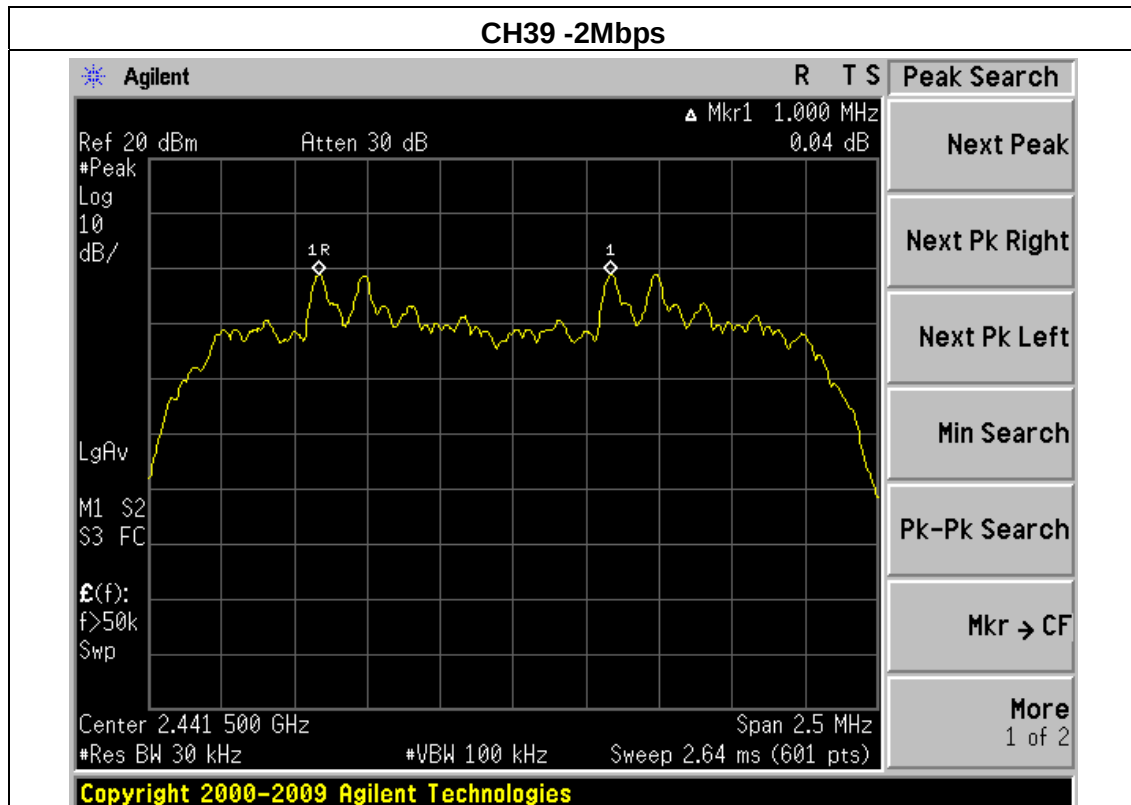


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (2Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.004	Complies
2441 MHz	1.000	Complies
2480 MHz	1.000	Complies

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

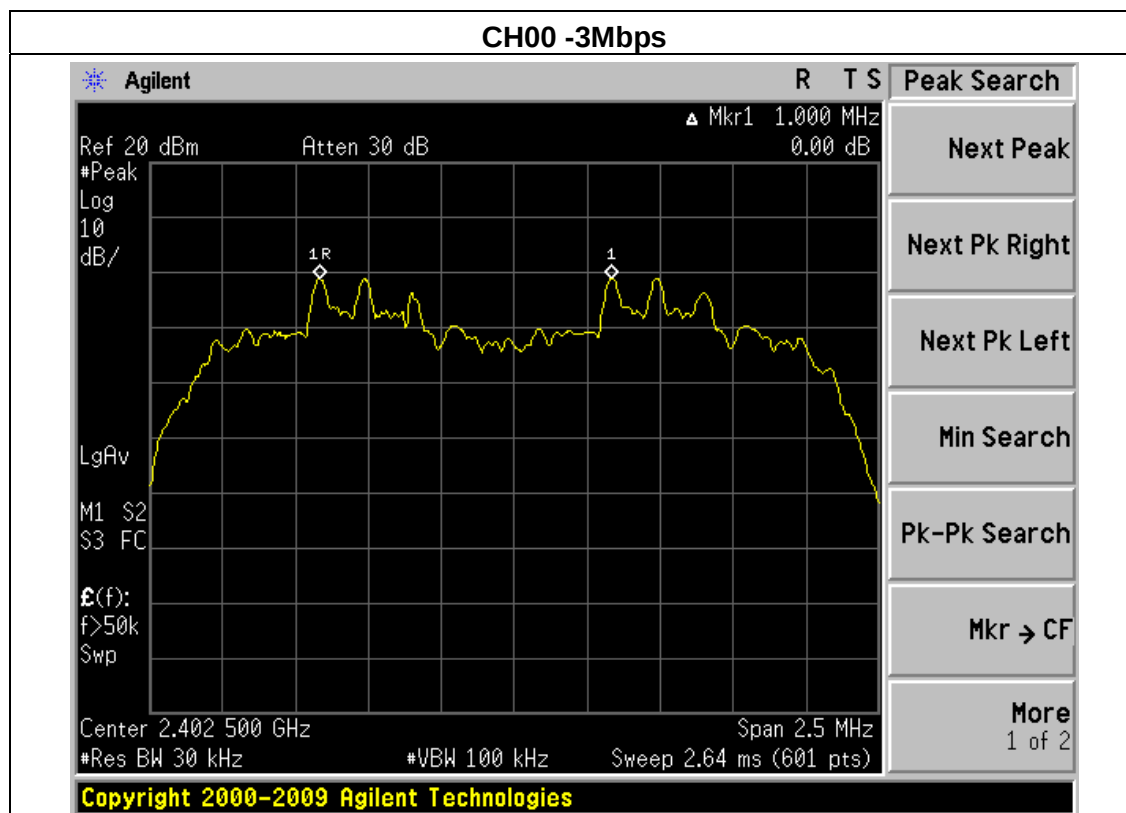


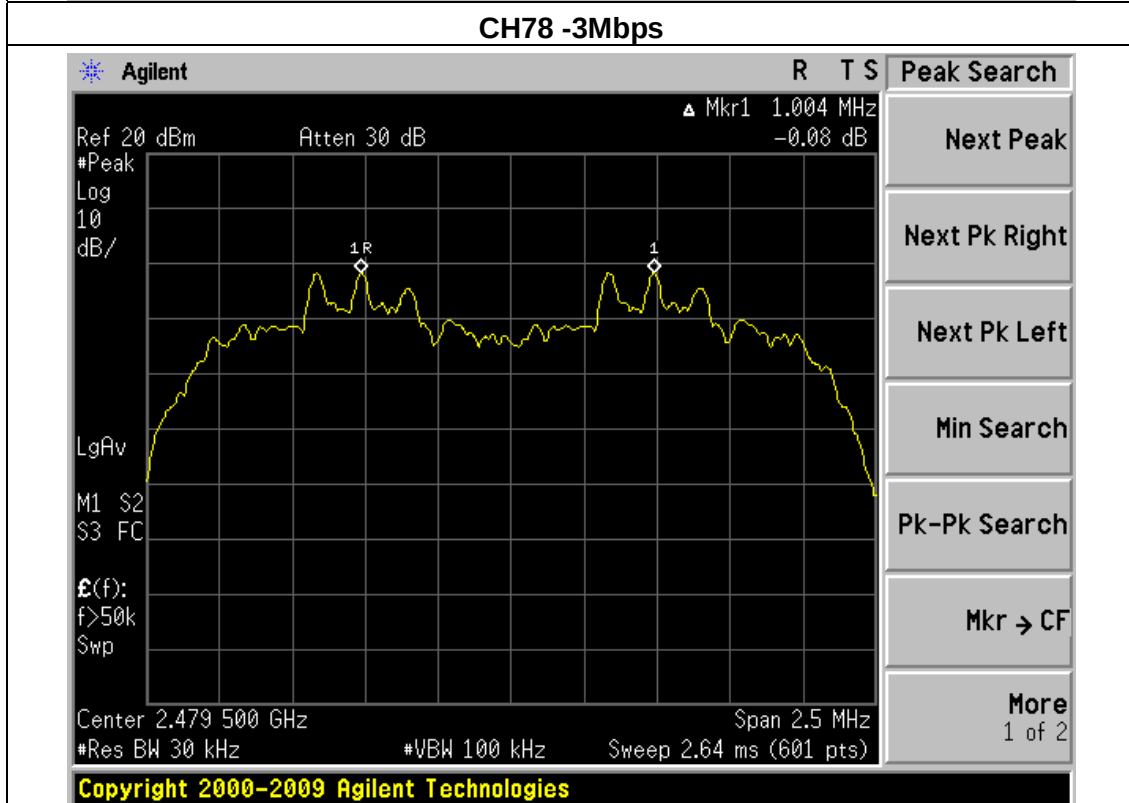
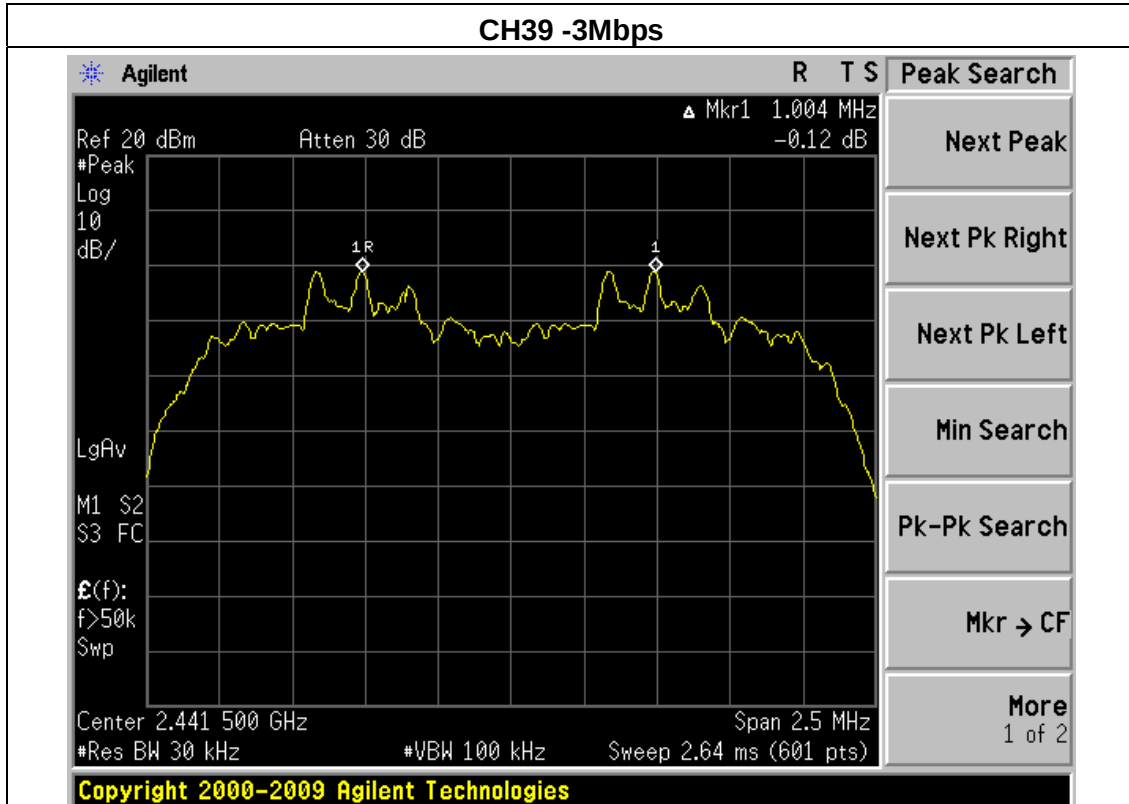


EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /CH78 (3Mbps Mode)		

Frequency	Ch. Separation (MHz)	Result
2402 MHz	1.000	Complies
2441 MHz	1.004	Complies
2480 MHz	1.004	Complies

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





7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (a)(1)	Bandwidth	(20dB bandwidth)	2400-2483.5	PASS

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

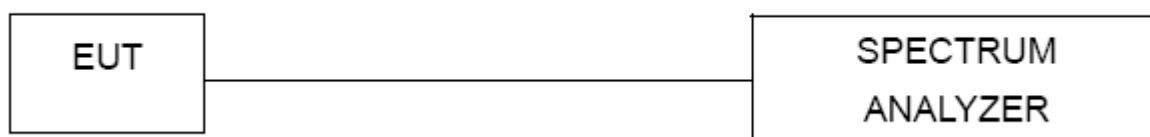
7.1.1 TEST PROCEDURE

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- Spectrum Setting : RBW= 30KHz, VBW=100KHz, Sweep time = Auto.

7.1.2 DEVIATION FROM STANDARD

No deviation.

7.1.3 TEST SETUP



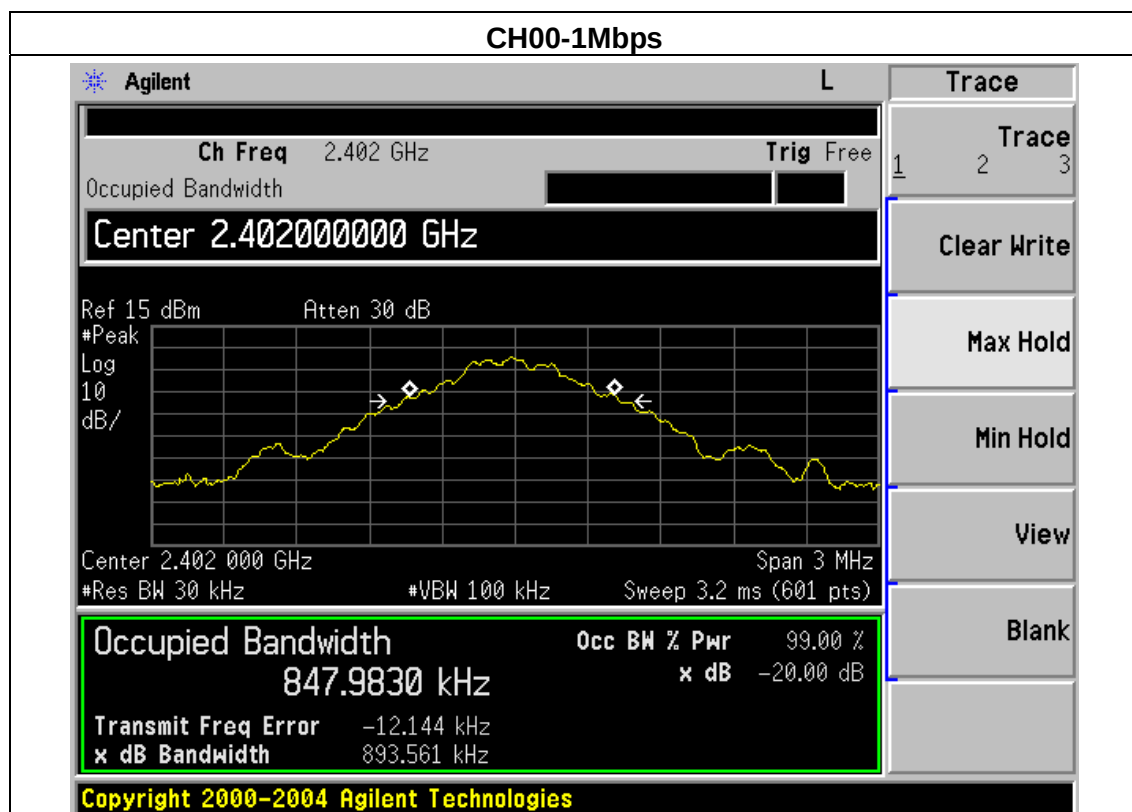
7.1.4 EUT OPERATION CONDITIONS

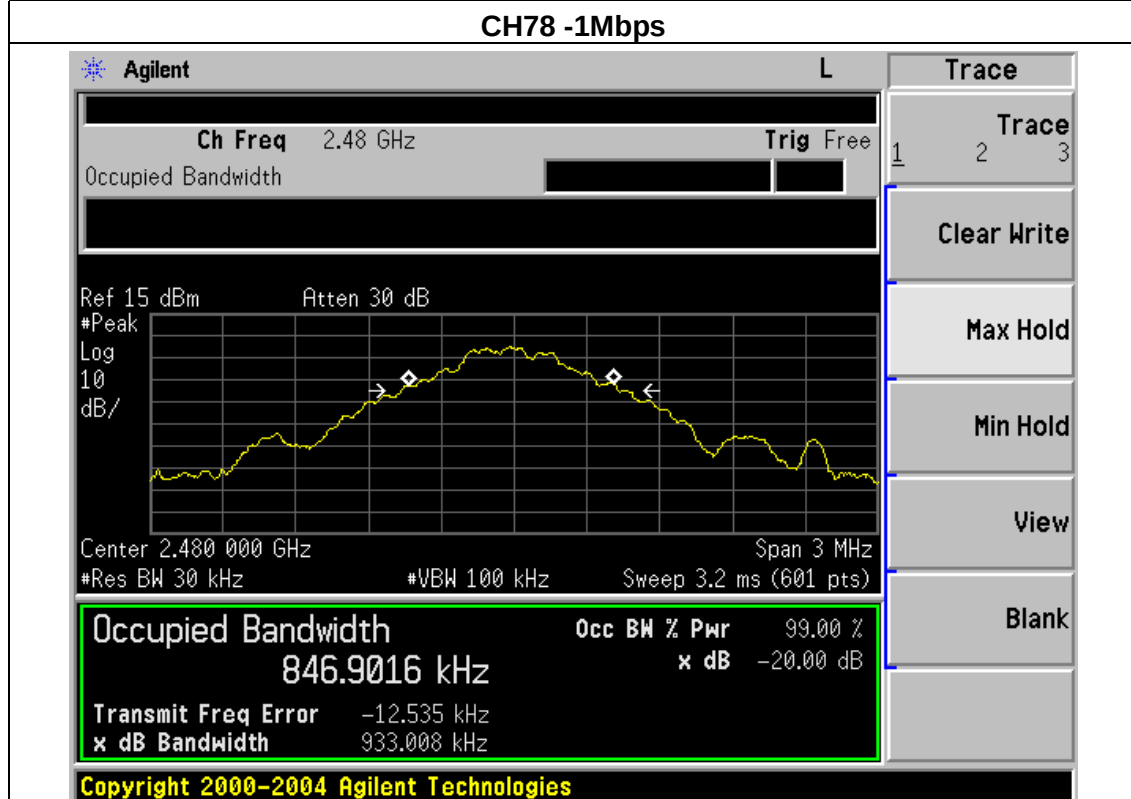
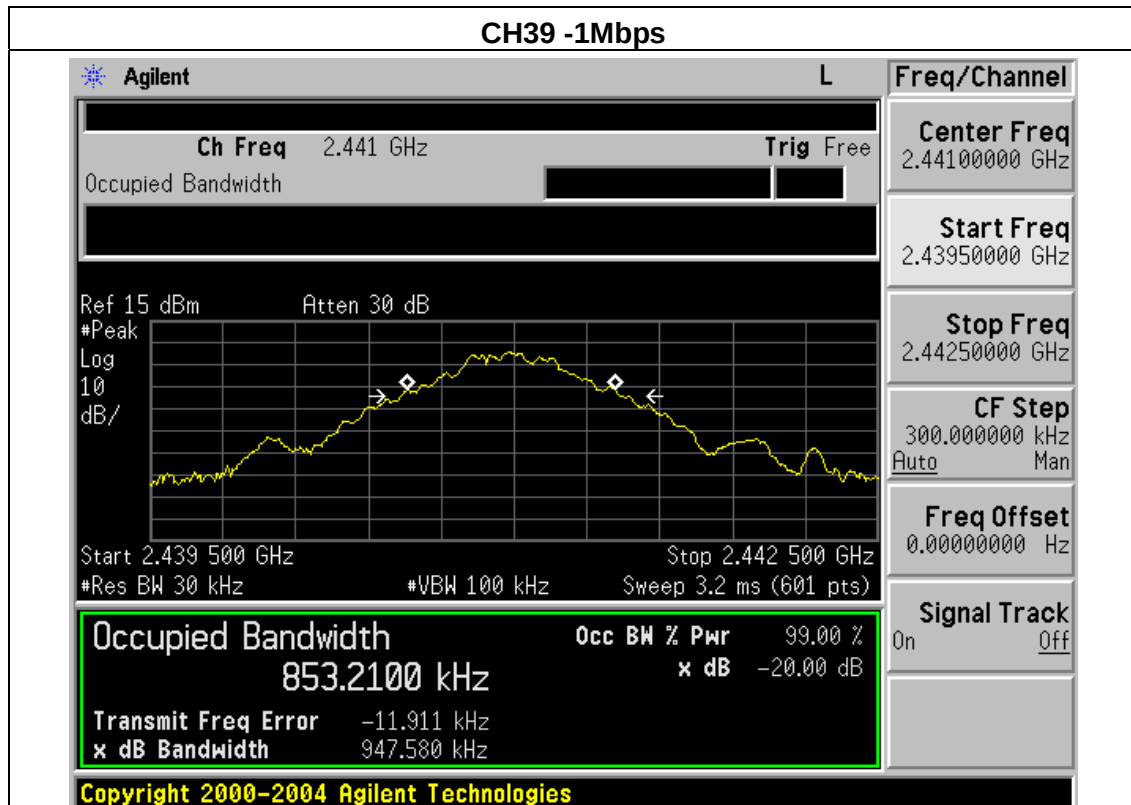
The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

7.1.5 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(1Mbps)		

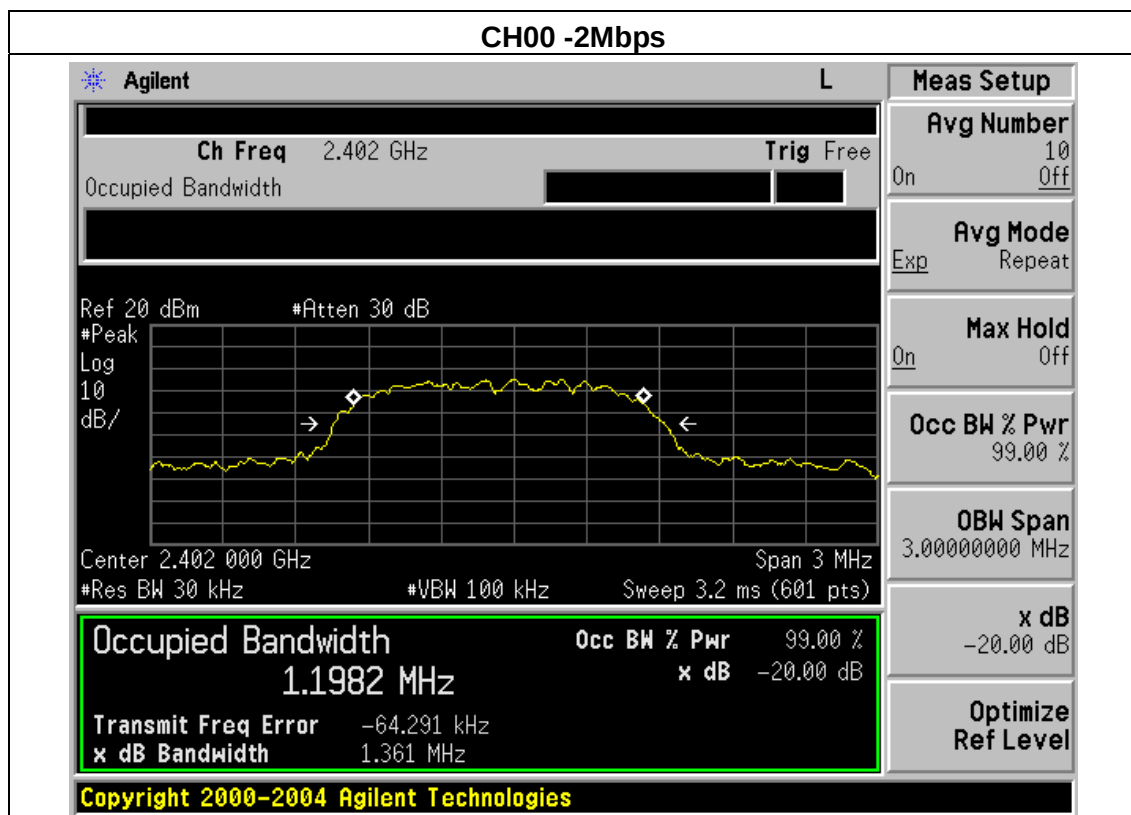
Frequency	20dB Bandwidth (kHz)	Result
2402 MHz	893.561	PASS
2441 MHz	947.580	PASS
2480 MHz	933.008	PASS

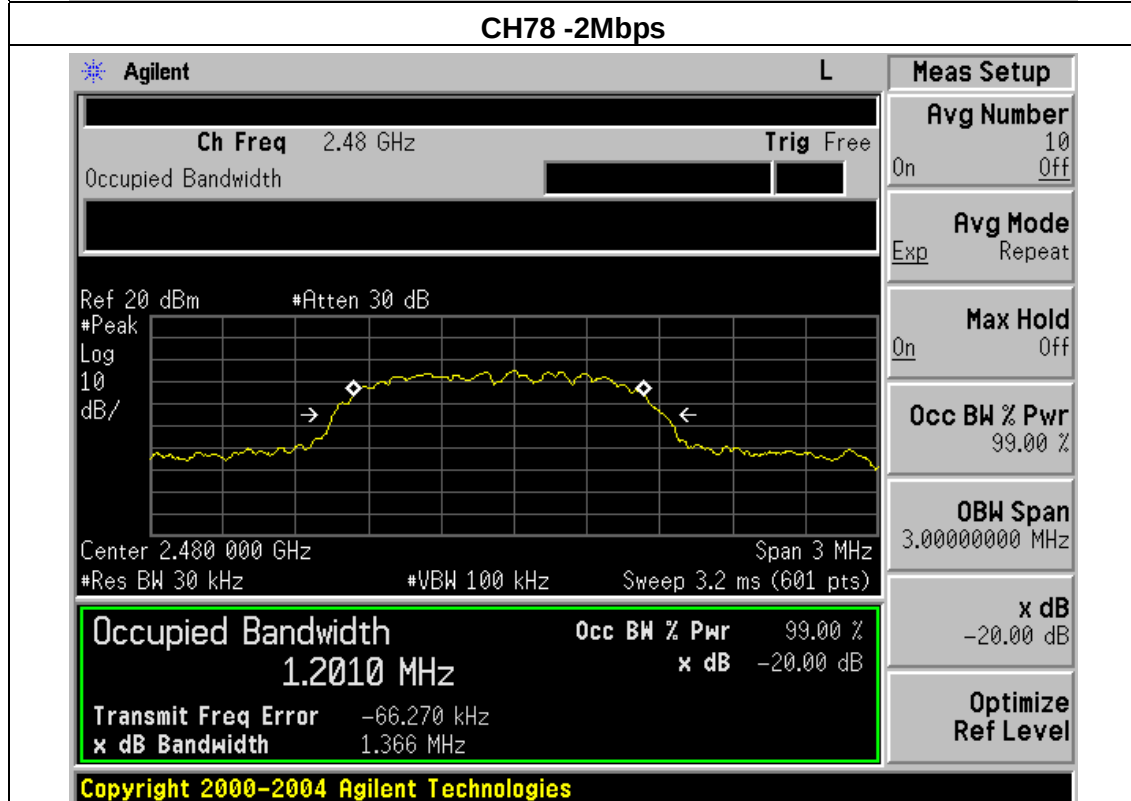
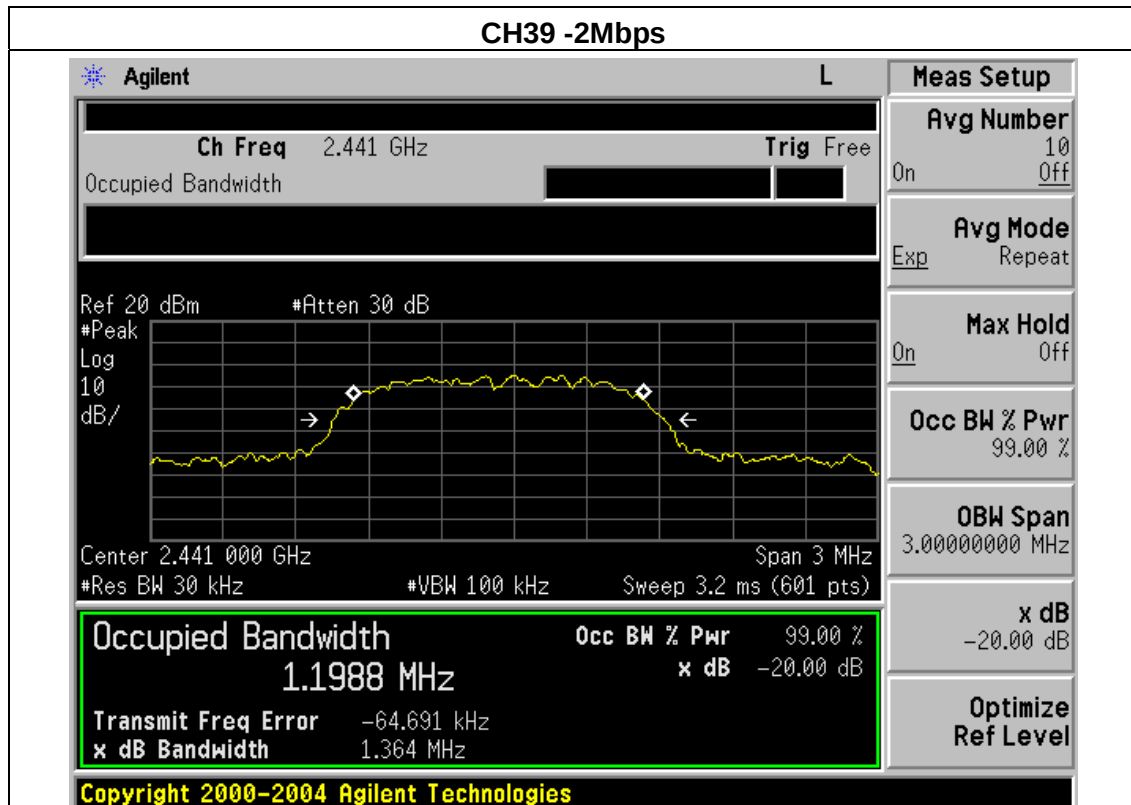




EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(2Mbps)		

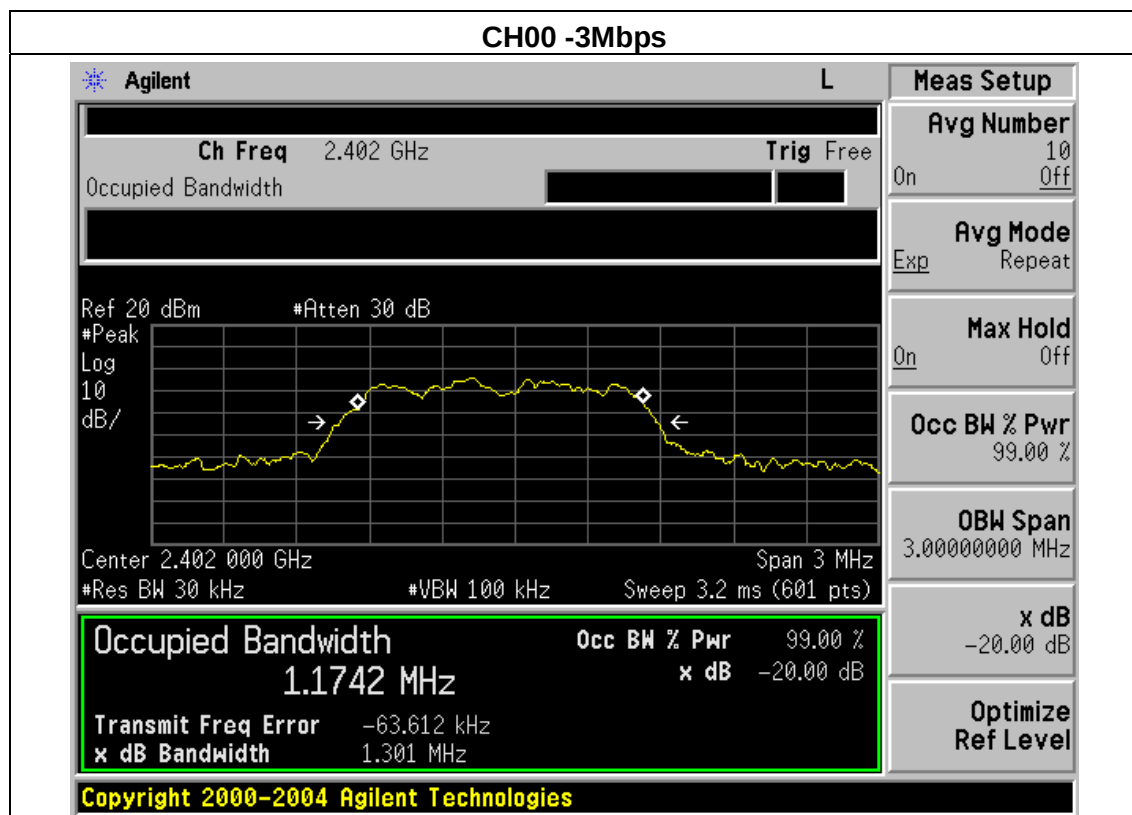
Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.361	PASS
2441 MHz	1.364	PASS
2480 MHz	1.366	PASS

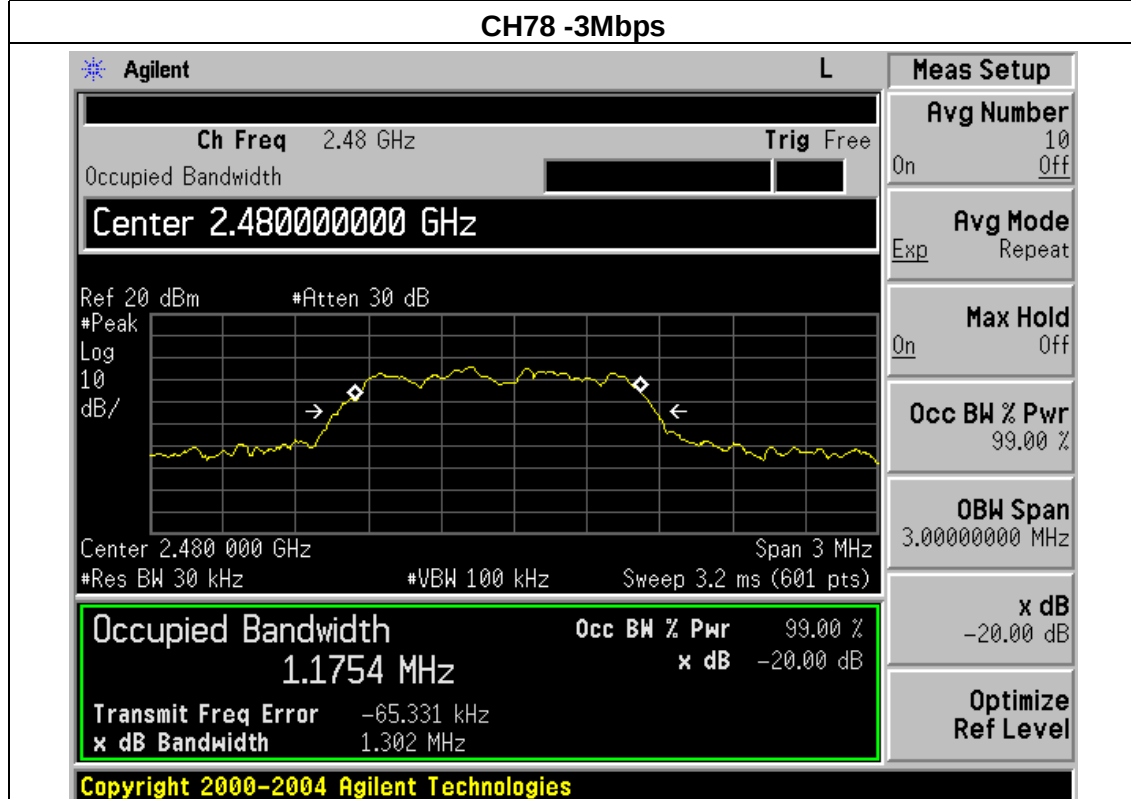
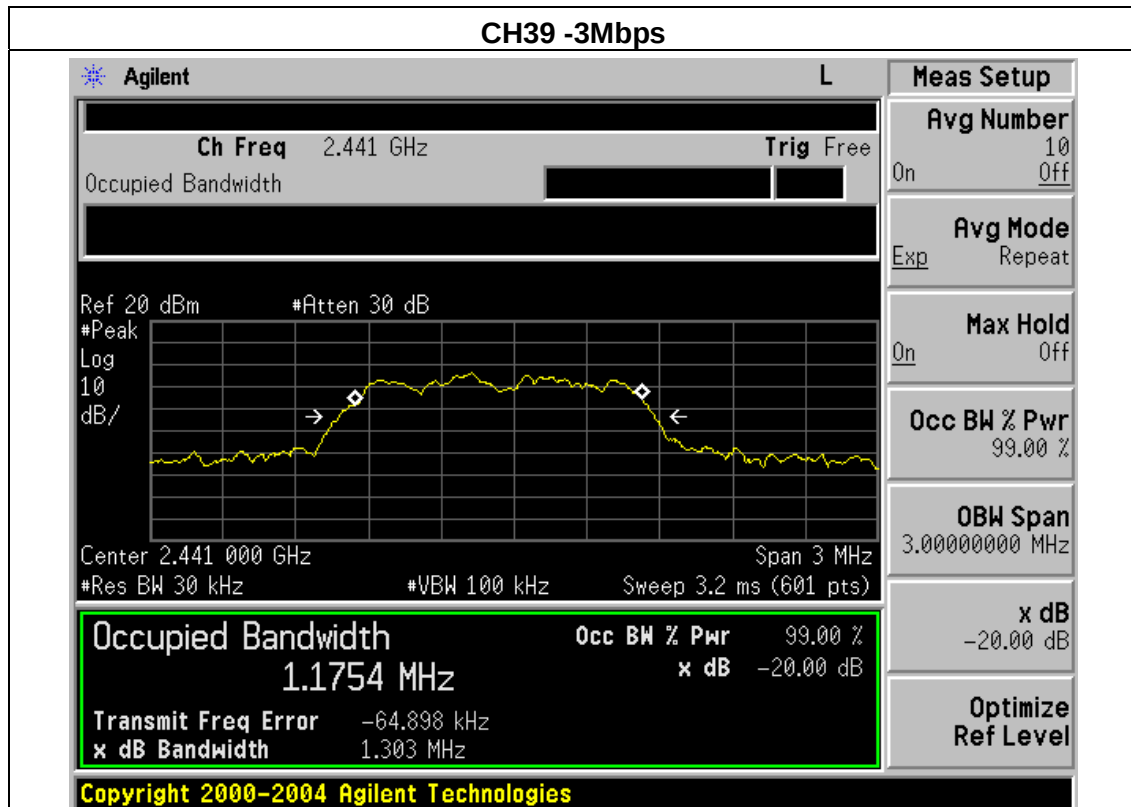




EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00 / CH39 /C78(3Mbps)		

Frequency	20dB Bandwidth (MHz)	Result
2402 MHz	1.301	PASS
2441 MHz	1.303	PASS
2480 MHz	1.302	PASS





8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

FCC Part15 (15.247) , Subpart C				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247 (b)(i)	Peak Output Power	0.125 w or 20.96dBm	2400-2483.5	PASS

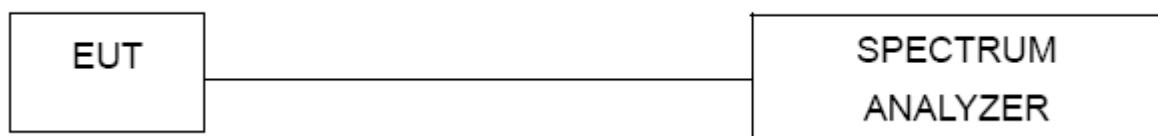
8.1.1 TEST PROCEDURE

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below,
- b. Spectrum Setting : RBW > the 20 dB bandwidth of the emission being measured
 - Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel
 - VBW $\geq$ RBW
 - Sweep = auto
 - Detector function = peak
 - Trace = max hold

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



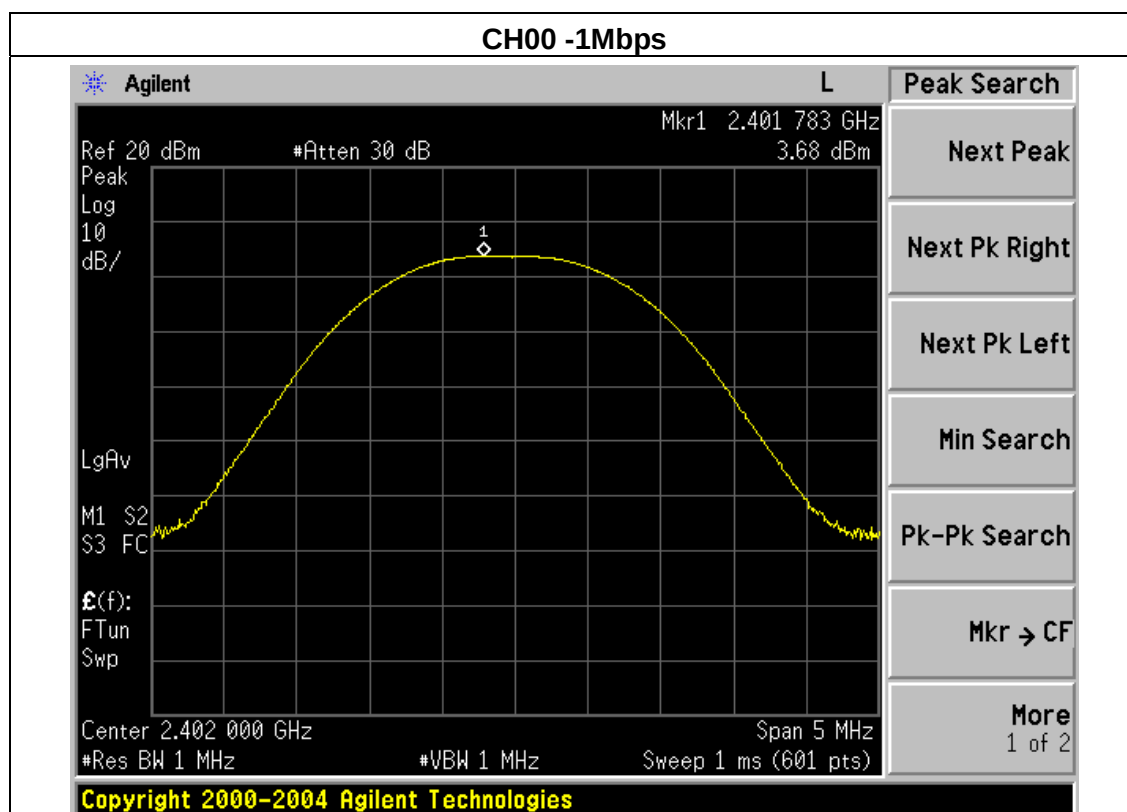
8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

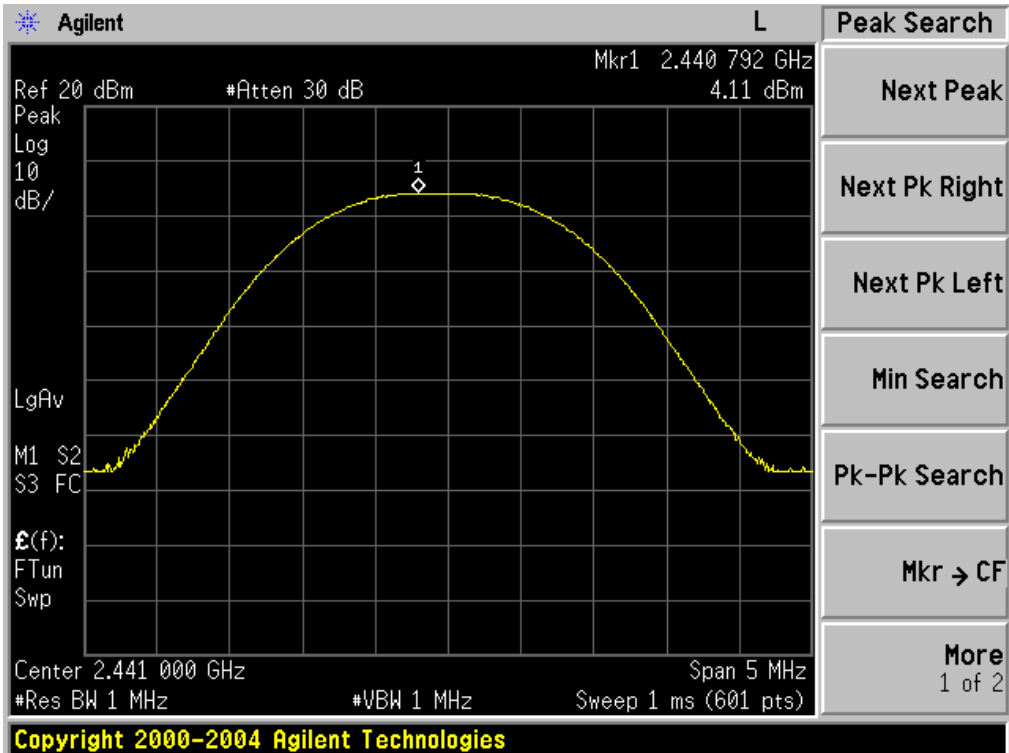
8.1.5 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH39 /CH78 (1M/2M/3Mbps Mode)		

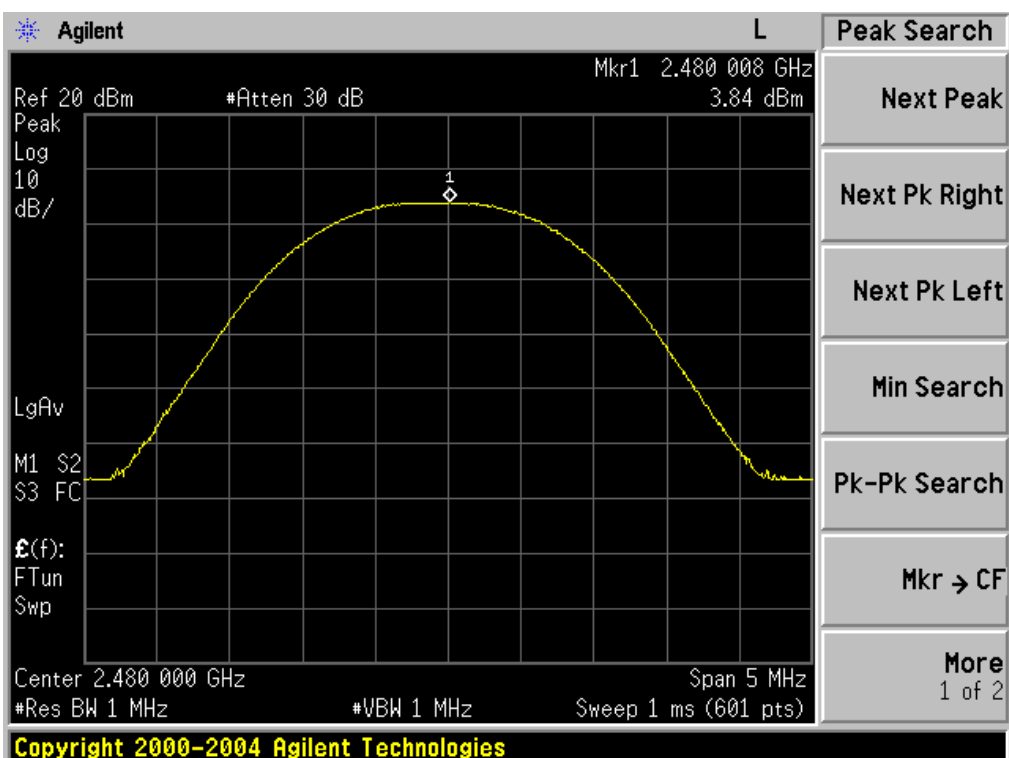
1Mbps			
Test Channel	Frequency (MHz)	Peak Output Power (dBm)	LIMIT (dBm)
CH00	2402	3.68	30
CH39	2441	4.11	30
CH78	2480	3.84	30
2Mbps			
CH00	2402	5.08	20.96
CH39	2441	5.17	20.96
CH78	2480	4.57	20.96
3Mbps			
CH00	2402	5.07	20.96
CH39	2441	5.38	20.96
CH78	2480	4.68	20.96

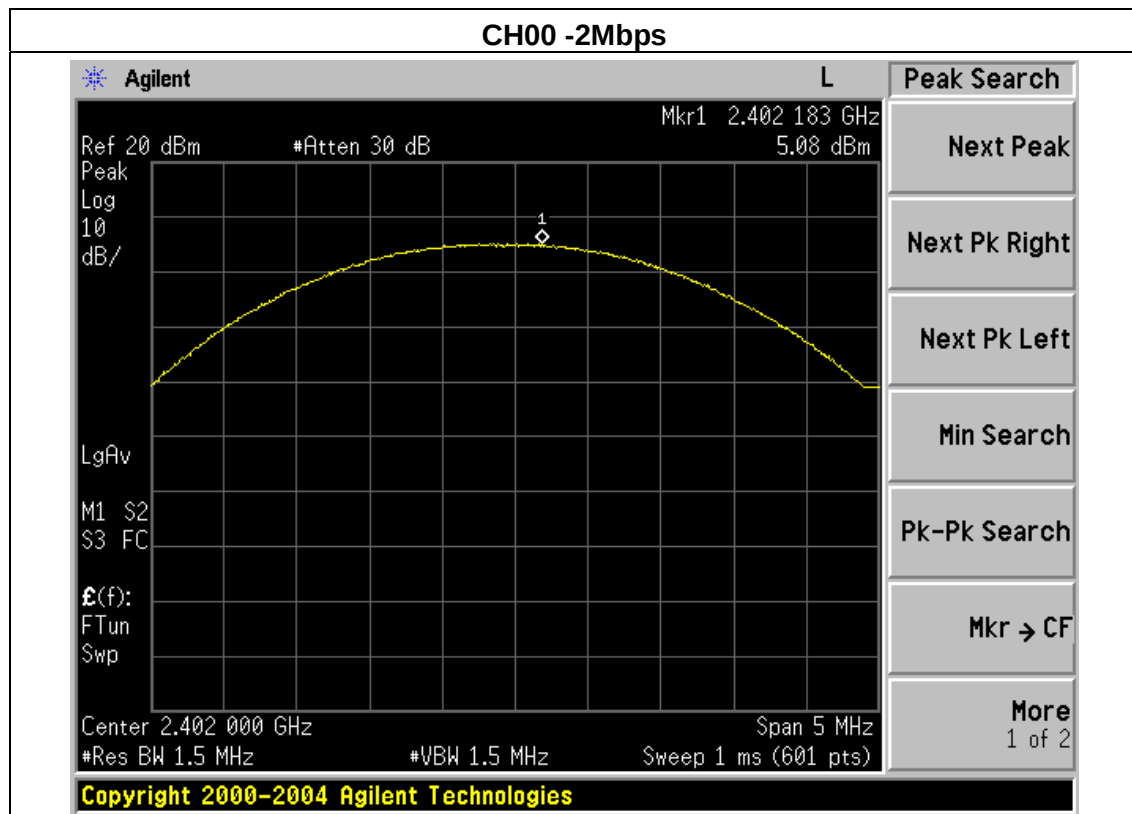


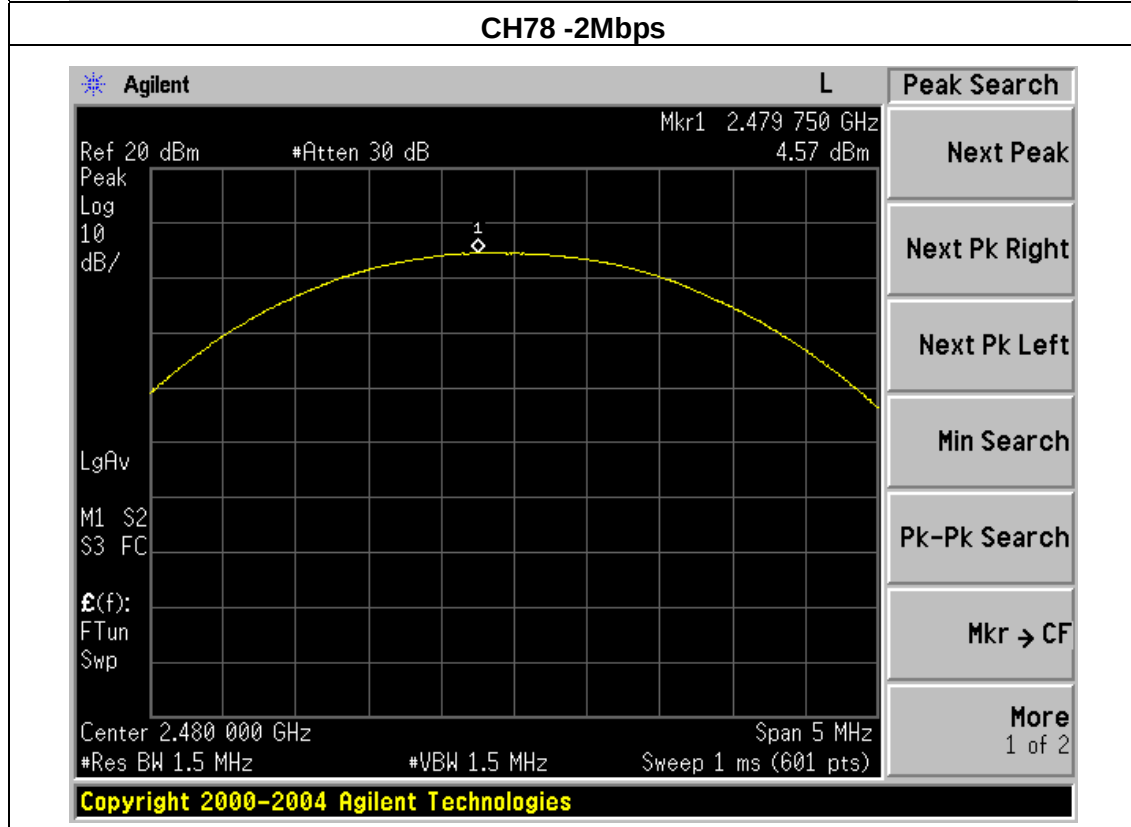
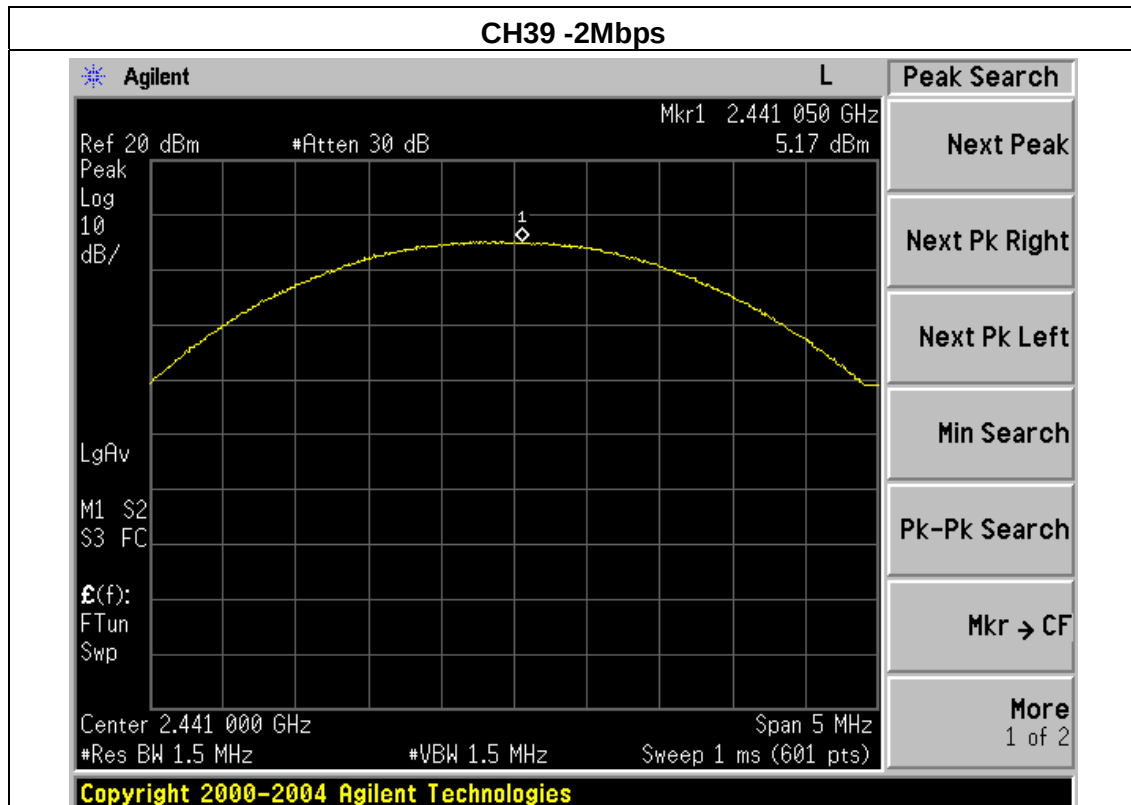
CH39 -1Mbps

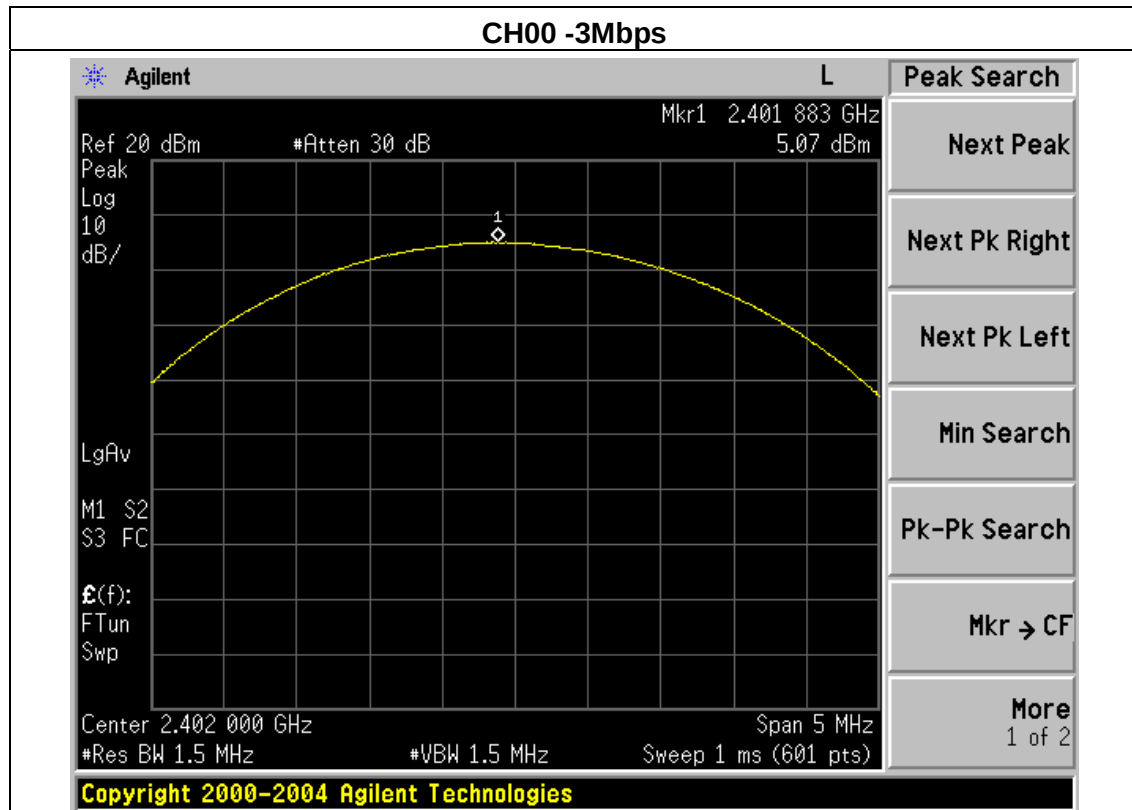


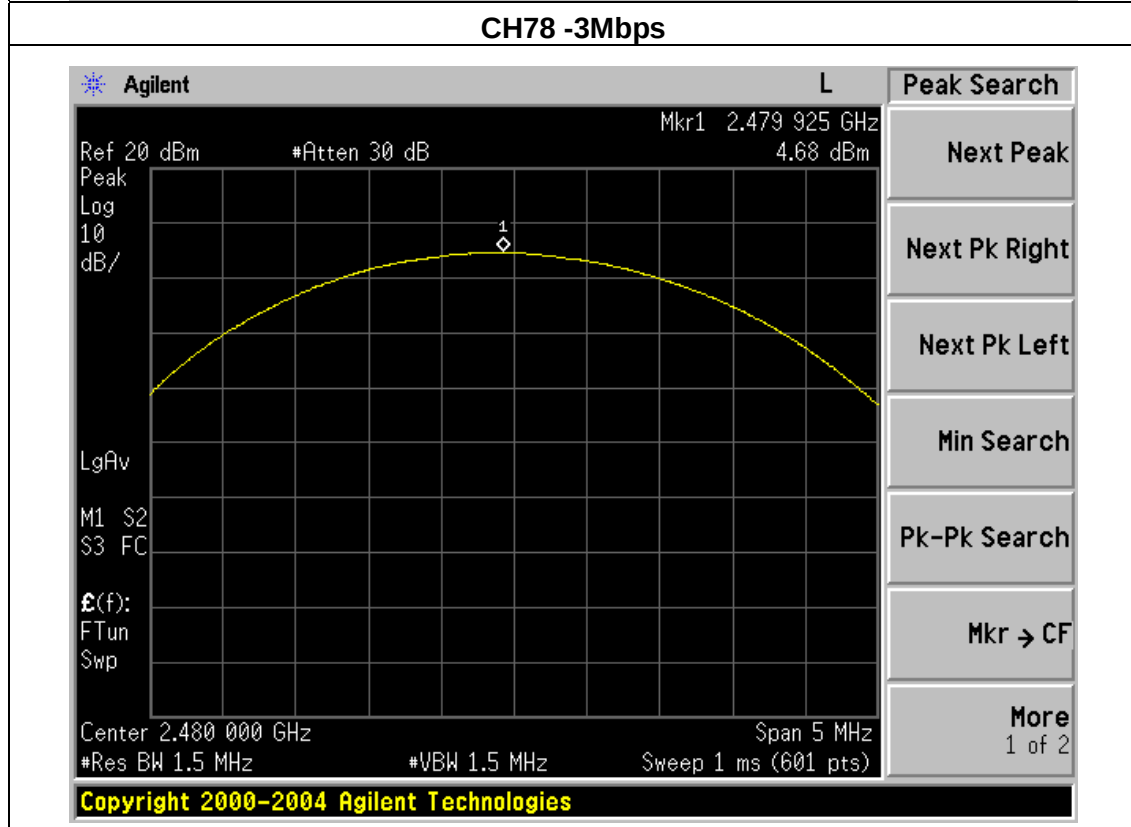
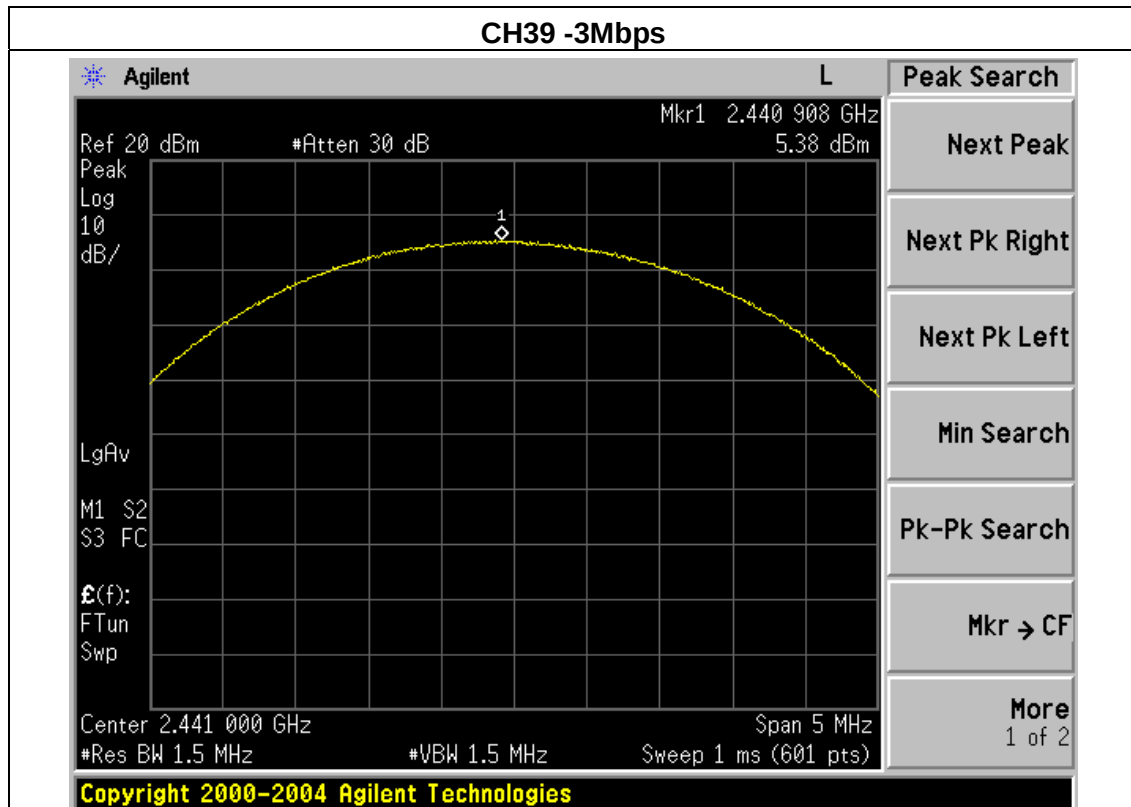
CH78 -1Mbps











9. 100 KHZ BANDWIDTH OF FREQUENCY BAND EDGE

APPLICABLE STANDARD

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §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)).

TEST PROCEDURE

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- Repeat above procedures until all measured frequencies were complete.

9.1 DEVIATION FROM STANDARD

No deviation.

9.2 TEST SETUP



9.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

9.4 TEST RESULTS

EUT :	10.6 inch MID	Model Name :	TM106A510L
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	DC 3.7V
Test Mode :	CH00/ CH78 (1M/2M/3Mbps Mode)		

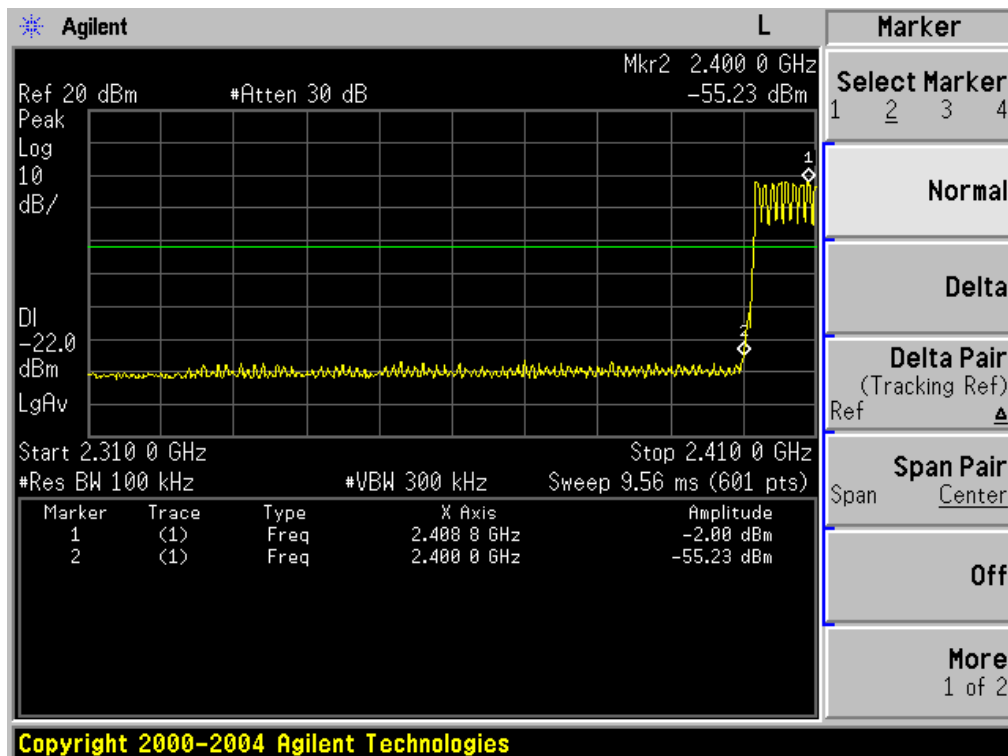
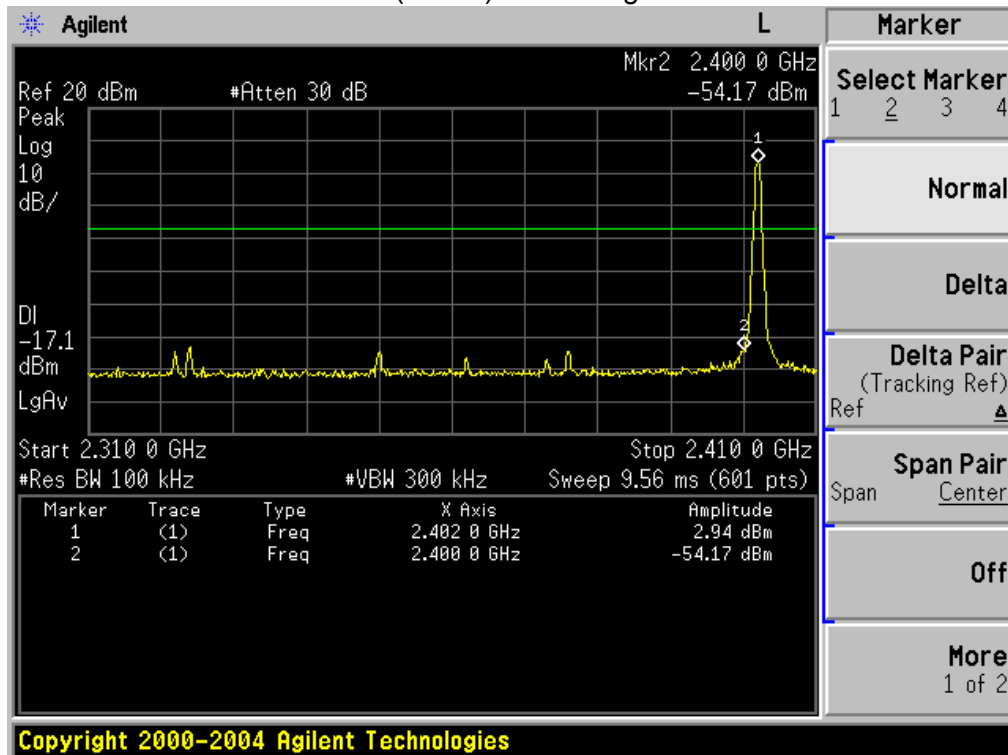
Frequency Band	Delta Peak to band emission (dBc)	> Limit (dBc)	Result
1Mbps Non-hopping			
2400	57.11	20	Pass
2483.5	56.00	20	Pass
2Mbps Non-hopping			
2400	52.72	20	Pass
2483.5	58.74	20	Pass
3Mbps Non-hopping			
2400	52.56	20	Pass
2483.5	59.71	20	Pass
1Mbps hopping			
2400	53.23	20	Pass
2483.5	58.24	20	Pass
2Mbps hopping			
2400	53.00	20	Pass
2483.5	64.11	20	Pass
3Mbps hopping			
2400	48.19	20	Pass
2483.5	63.95	20	Pass

Radiated band edge:

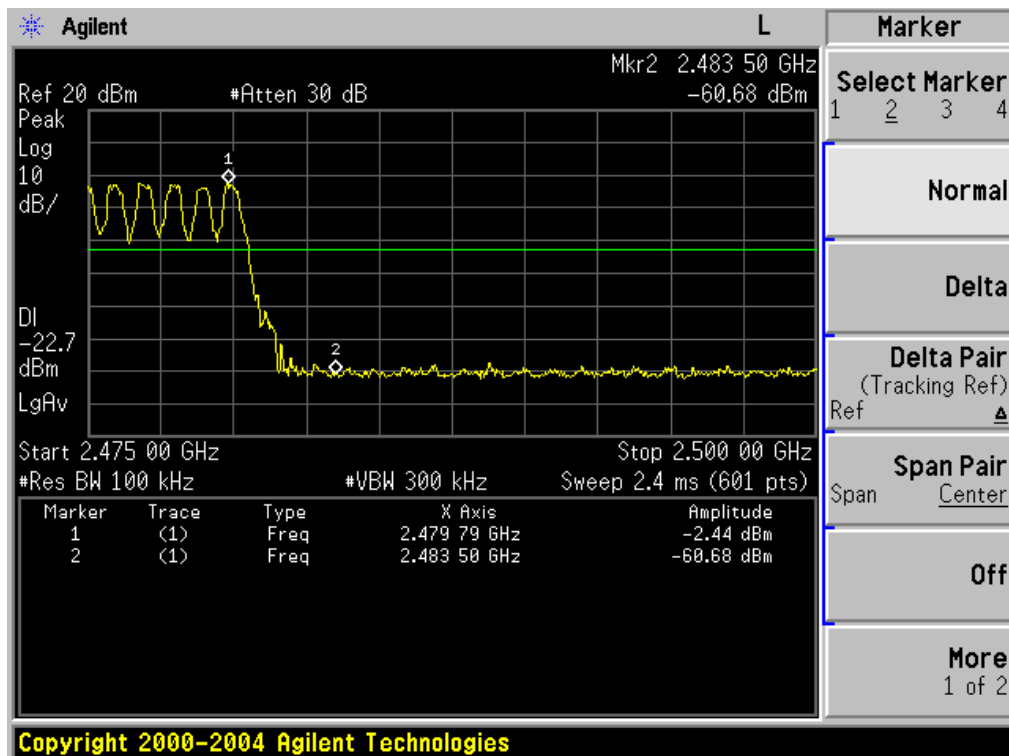
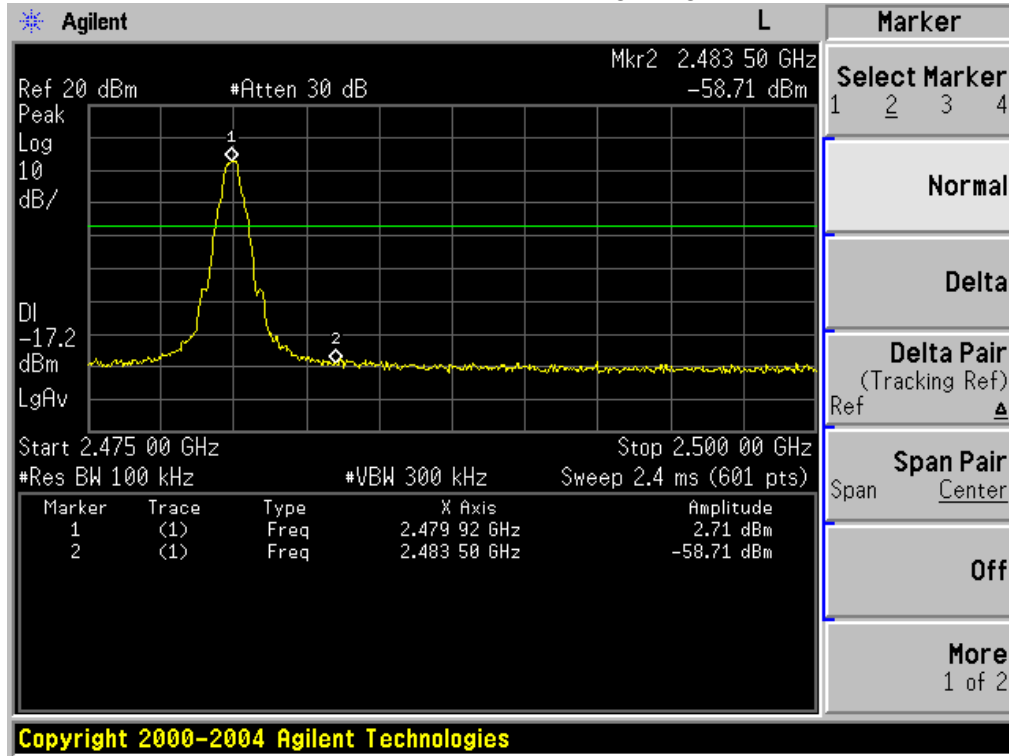
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
1Mbps Non-hopping							
2390	58.96	-13.06	45.90	74.00	-28.10	peak	Vertical
2390	56.48	-13.06	43.42	74.00	-30.58	peak	Horizontal
2483.5	60.21	-12.78	47.43	74.00	-26.57	peak	Vertical
2483.5	59.32	-12.78	46.54	74.00	-27.46	peak	Horizontal
1Mbps hopping							
2390	61.21	-13.06	48.15	74.00	-25.85	peak	Vertical
2390	60.56	-13.06	47.50	74.00	-26.50	peak	Horizontal
2483.5	59.79	-12.78	47.01	74.00	-26.99	peak	Vertical
2483.5	59.63	-12.78	46.85	74.00	-27.15	peak	Horizontal
2Mbps Non-hopping							
2390	59.67	-13.06	46.61	74.00	-27.39	peak	Vertical
2390	59.85	-13.06	46.79	74.00	-27.21	peak	Horizontal
2483.5	60.11	-12.78	47.33	74.00	-26.67	peak	Vertical
2483.5	58.74	-12.78	45.96	74.00	-28.04	peak	Horizontal
2Mbps hopping							
2390	59.67	-13.06	46.61	74.00	-27.39	peak	Vertical
2390	59.04	-13.06	45.98	74.00	-28.02	peak	Horizontal
2483.5	58.82	-12.78	46.04	74.00	-27.96	peak	Vertical
2483.5	57.63	-12.78	44.85	74.00	-29.15	peak	Horizontal
3Mbps Non-hopping							
2390	59.02	-13.06	45.96	74.00	-28.04	peak	Vertical
2390	60.32	-13.06	47.26	74.00	-26.74	peak	Horizontal
2483.5	59.14	-12.78	46.36	74.00	-27.64	peak	Vertical
2483.5	58.97	-12.78	46.19	74.00	-27.81	peak	Horizontal
3Mbps hopping							
2390	60.21	-13.06	47.15	74.00	-26.85	peak	Vertical
2390	57.66	-13.06	44.60	74.00	-29.40	peak	Horizontal
2483.5	59.01	-12.78	46.23	74.00	-27.77	peak	Vertical
2483.5	58.89	-12.78	46.11	74.00	-27.89	peak	Horizontal

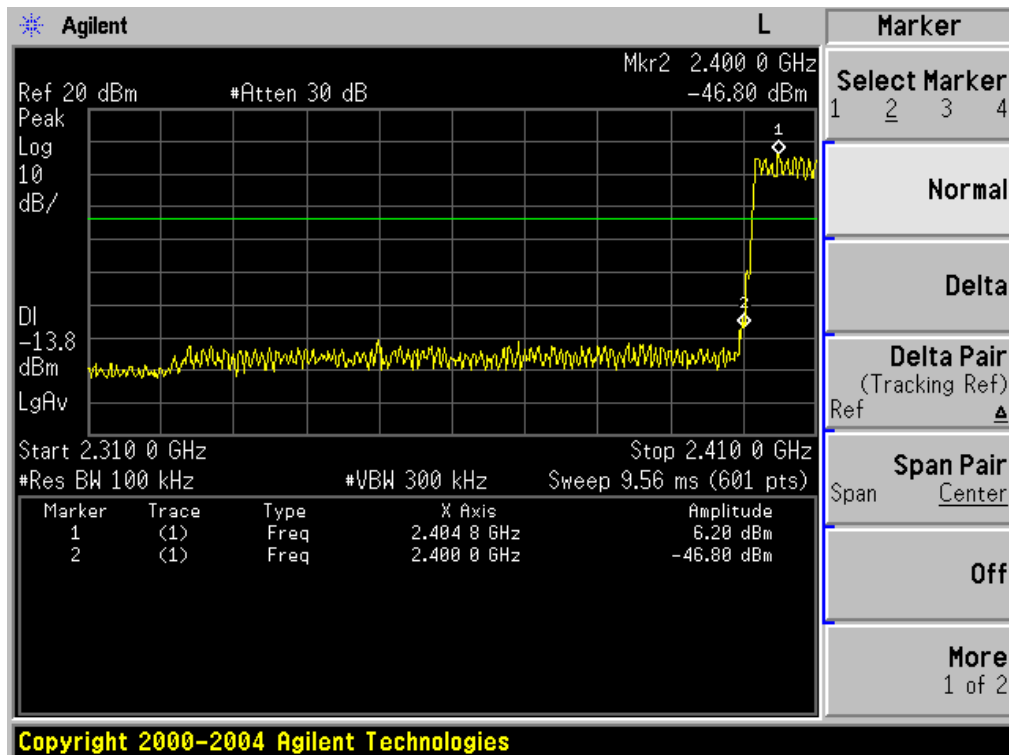
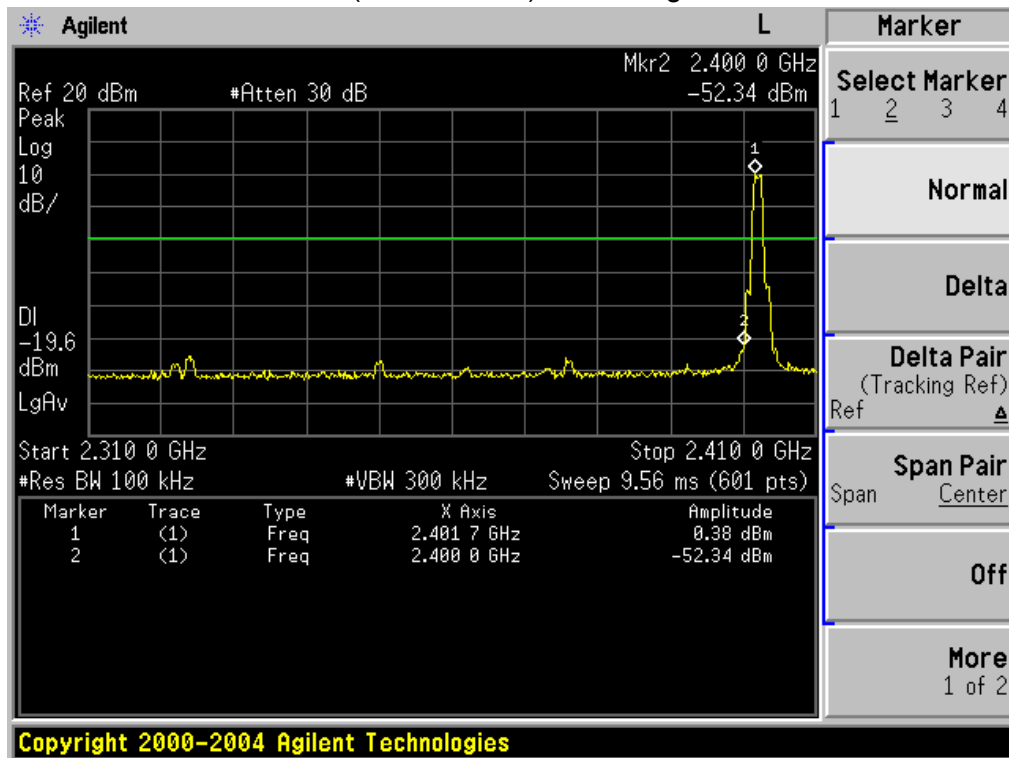
Note: Refer to chapter 3.2 test method, When PK value is lower than the Average value limit, average didn't record.

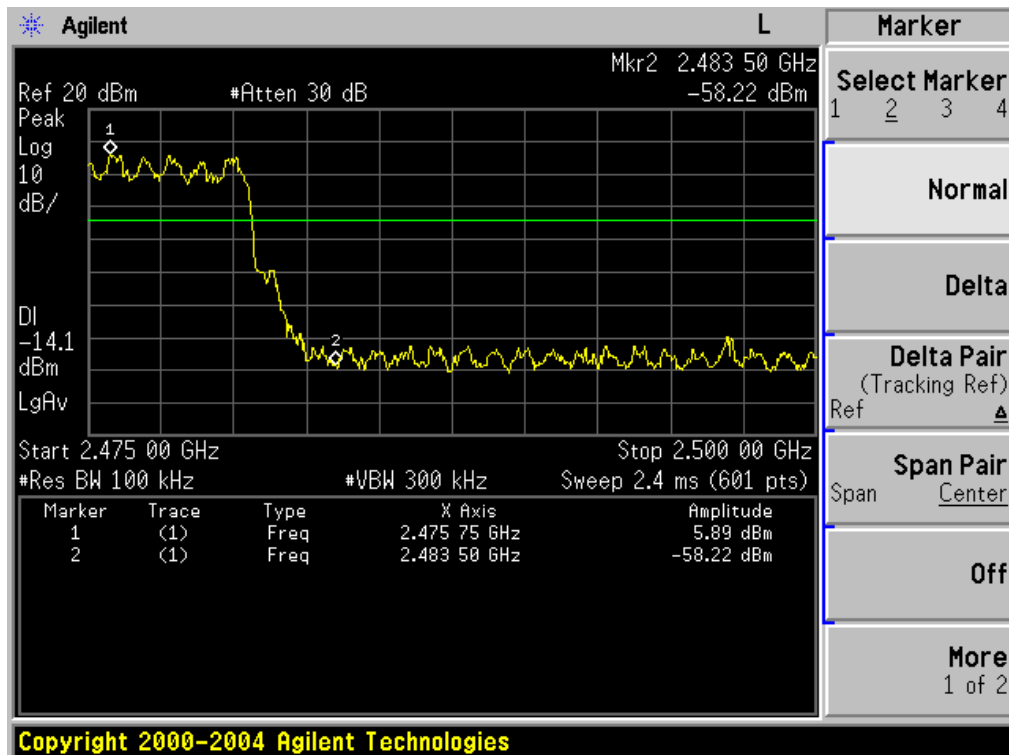
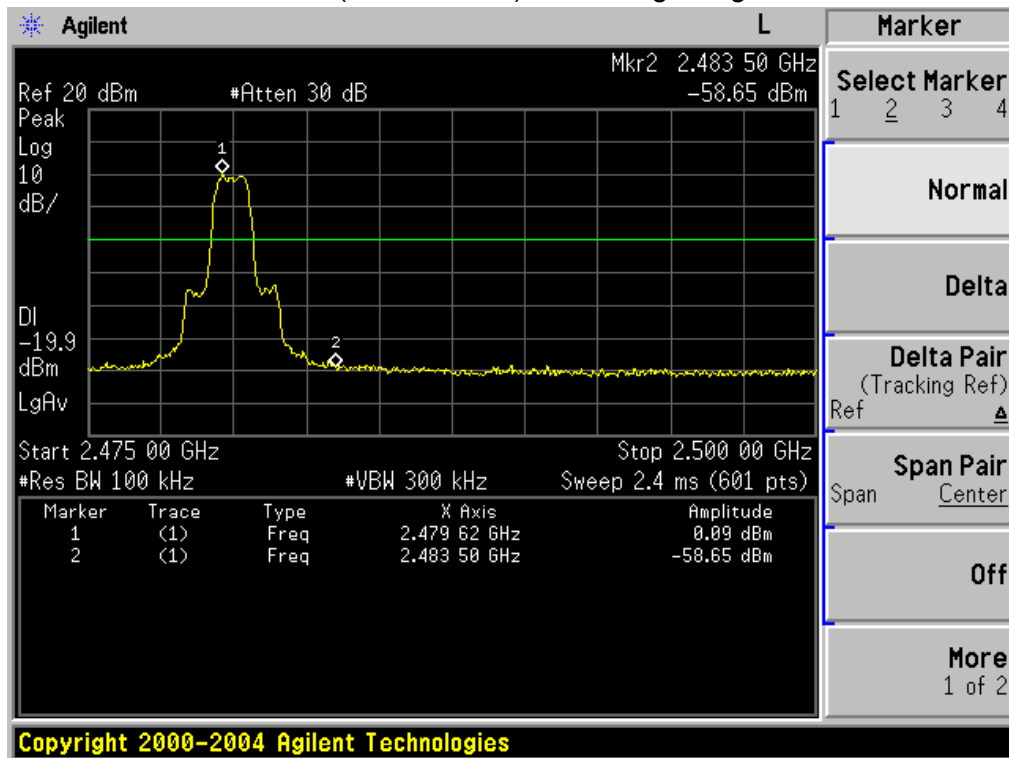
BDR mode (GFSK): Band Edge-Left Side



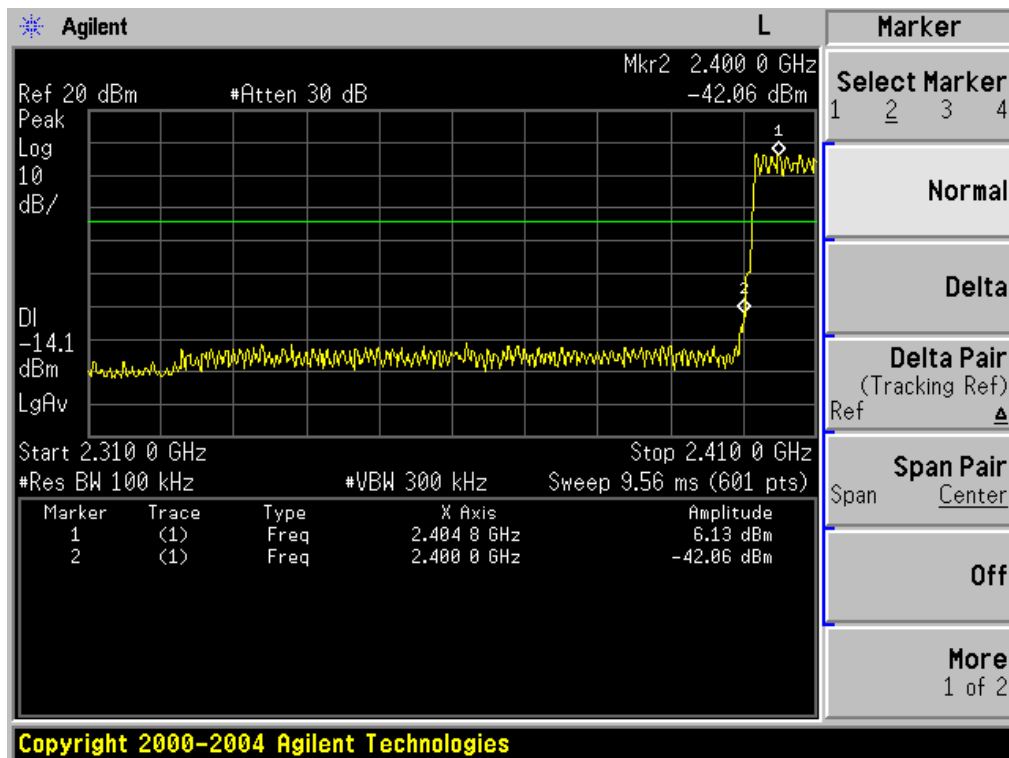
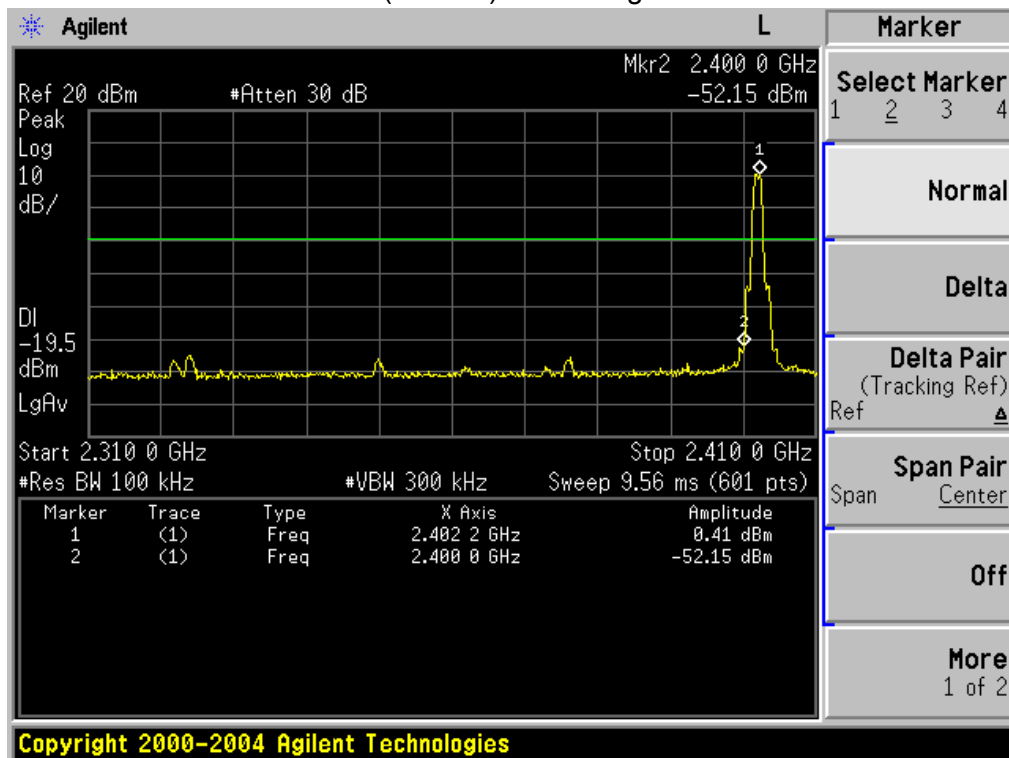
BDR mode (GFSK): Band Edge-Right Side



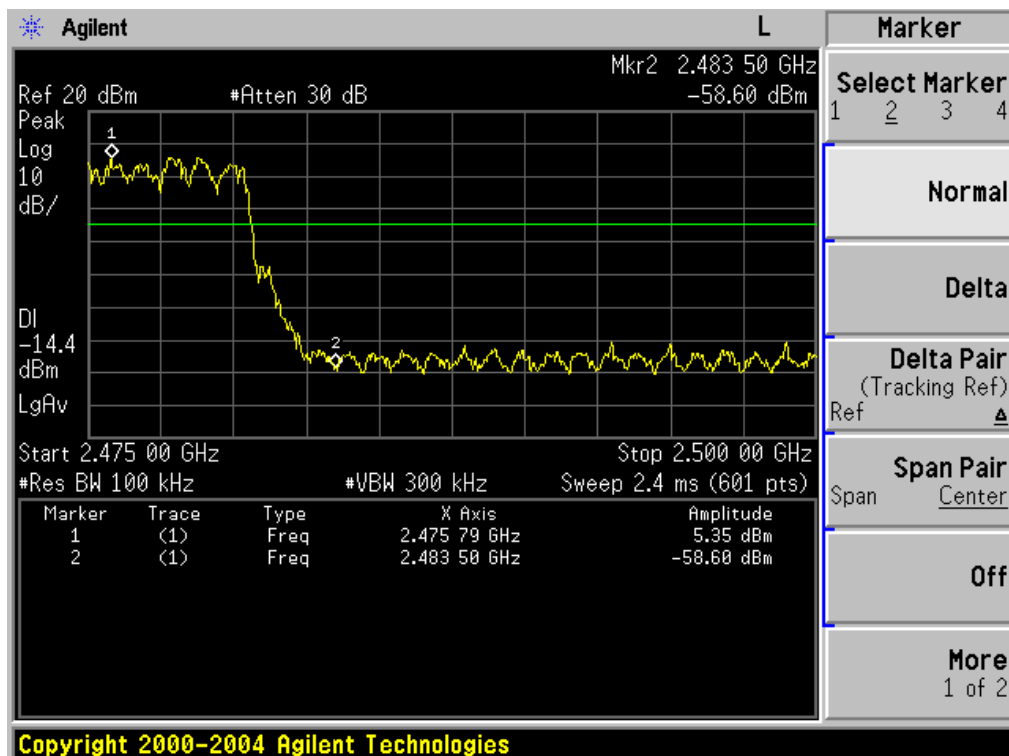
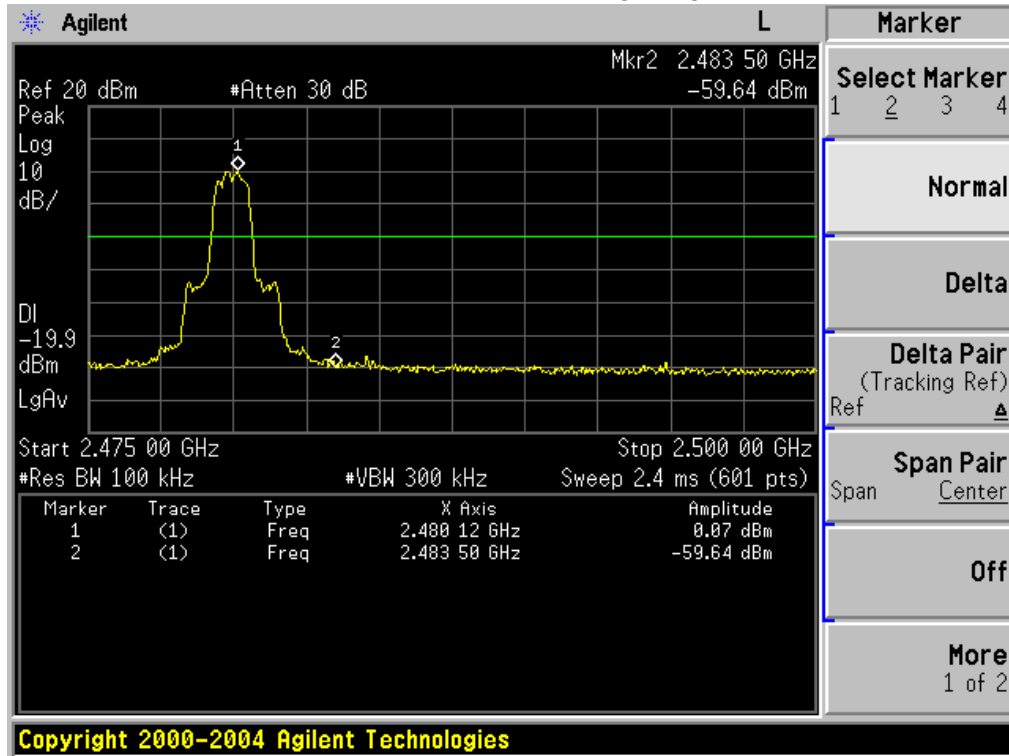
EDR mode ($\pi/4$ -DQPSK): Band Edge-Left Side


EDR mode ($\pi/4$ -DQPSK): Band Edge- Right Side


EDR mode(8DPSK): Band Edge-Left Side



EDR mode(8DPSK): Band Edge-Right Side



NOTE: Hopping enabled and disabled have evaluated, and the worst data was reported

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

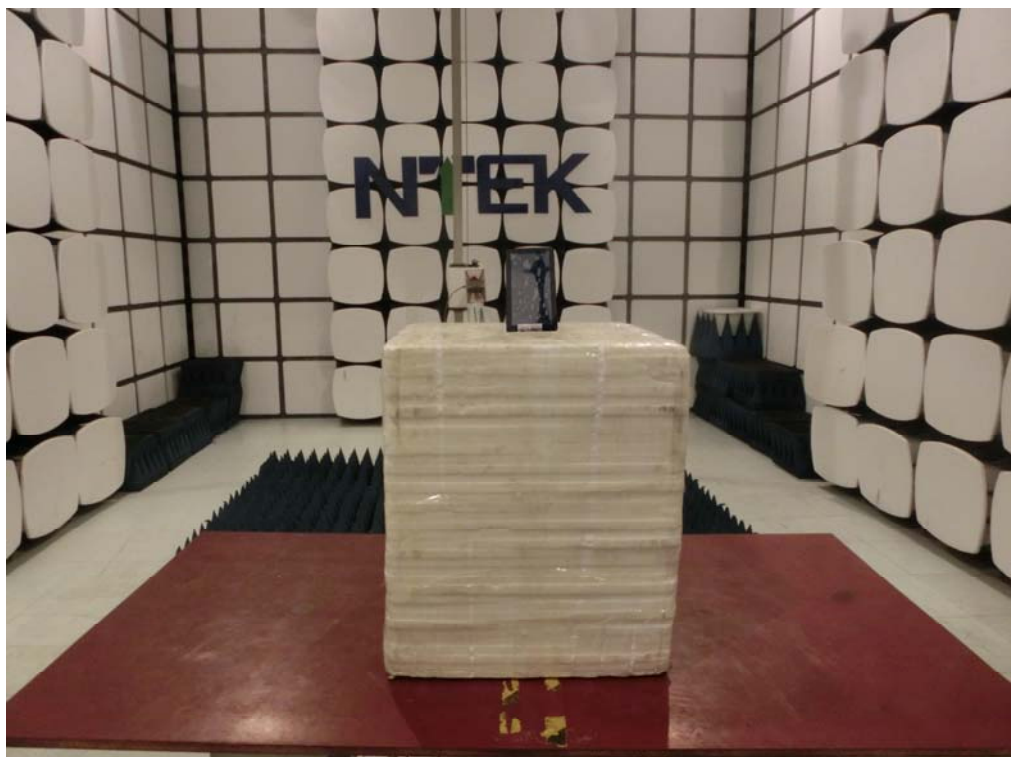
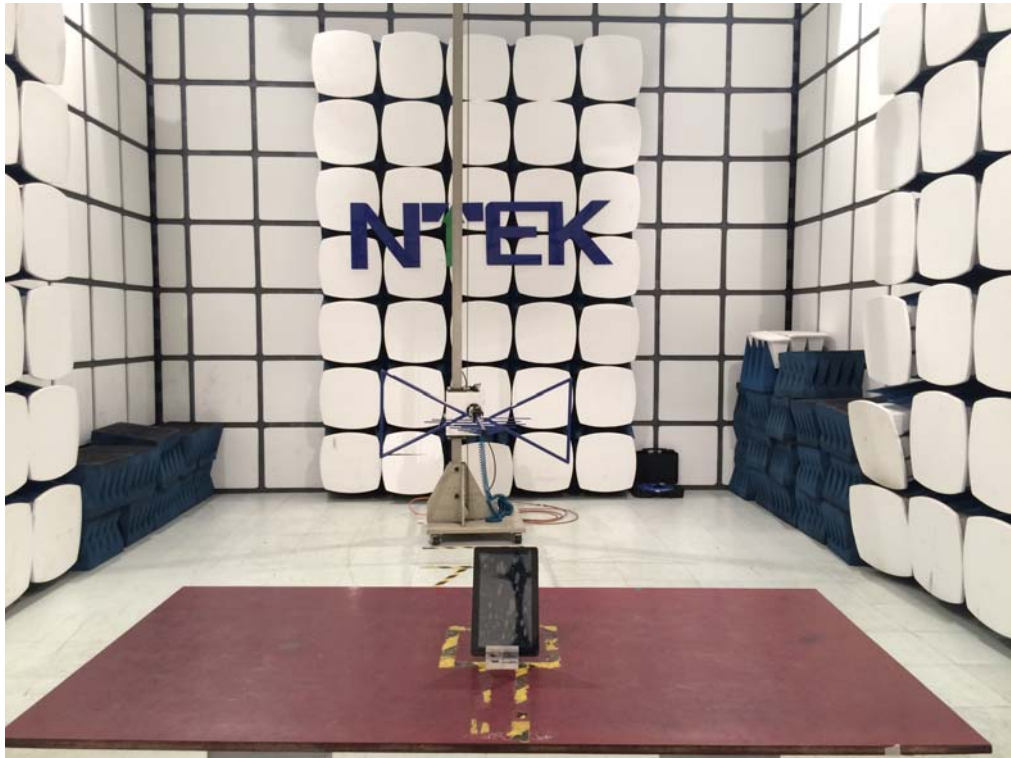
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is permanent attached antenna. It comply with the standard requirement.

11. EUT TEST PHOTO

Radiated Measurement Photos



CONDUCTED EMISSION Photos

