

FCC TEST REPORT

(Part 90 Subpart Z)

REPORT NO.: RF990617C06

MODEL NO.: 3630SMC

FCC ID: ABZ89FT7636

RECEIVED: Jun. 17, 2010

TESTED: Jul. 02 ~ Jul. 16, 2010

ISSUED: Jul. 26, 2010

APPLICANT: Motorola Inc.

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1 CERTIFICATION

PRODUCT: 3630SMC Outdoor Subscriber Module

MODEL: 3630SMC

BRAND: Motorola

APPLICANT: Motorola Inc.

TESTED: Jul. 02 ~ Jul. 16, 2010

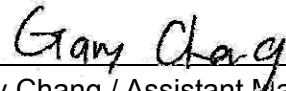
TEST SAMPLE: ENGINEERING SAMPLE

TEST STANDARDS: FCC Part 90, Subpart Z

The above equipment (Model no.: 3630SMC) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :  , **DATE:** Jul. 26, 2010
Rennie Wang / Supervisor

TECHNICAL
ACCEPTANCE :  , **DATE:** Jul. 26, 2010
Responsible for RF Long Chen / Senior Engineer

APPROVED BY :  , **DATE:** Jul. 26, 2010
Gary Chang / Assistant Manager

2 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
FCC Part 2& Part 90			
2.1046 90.1321	Maximum Peak Output Power Limit: max. 25Watt / 25MHz EIRP.	PASS	Meet the requirement of limit.
2.1055 90.213	Frequency Stability Stay with the authorized bands of operation	PASS	Meet the requirement of limit.
2.1049 90.1323	Emission Bandwidth	PASS	Meet the requirement of limit.
90.210	Emission masks	PASS	Meet the requirement of limit.
2.1051 90.1323	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
2.1053 90.1323	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -16.7dB at 7303.50MHz.

2.1 MEASUREMENT UNCERTAINTY

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

MEASUREMENT	FREQUENCY	UNCERTAINTY
Conducted emissions	150kHz~30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 dB
	1GHz ~ 18GHz	2.26 dB
	18GHz ~ 40GHz	1.94 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

PRODUCT	3630SMC Outdoor Subscriber Module	
MODEL NO.	3630SMC	
FCC ID	ABZ89FT7636	
POWER SUPPLY	48Vdc or 56Vdc	
CODED TYPE/MODULATION/ CODING RATE	UL	QPSK: 1/2, 3/4
		16QAM: 1/2, 3/4
		64QAM: 1/2, 2/3, 3/4, 5/6
	DL	QPSK: 1/2, 3/4
		16QAM: 1/2, 3/4
		64QAM: 1/2, 2/3, 3/4, 5/6
MODULATION TECHNOLOGY	OFDMA	
DUPLEX METHOD	TDD	
MULTIPLE ACCESS METHOD	TDMA	
OPERATING FREQUENCY	3651.75MHz ~ 3673.25MHz	
CHANNEL BANDWIDTH	3.5MHz, 5.0MHz, 7.0MHz, 10.0MHz	
MAX. E.I.R.P. POWER (PEAK)	36.09dBm	
ANTENNA TYPE	See NOTE	
OPERATION TEMPERATURE RANGE	-40°C ~ 70°C	
DATA CABLE	1.7m shielded RJ45 cable without core	
I/O PORTS	Refer to user's manual	
ACCESSORY DEVICES	POE	

NOTE:

1. The EUT consumes power from the following PoEs.

POE 1	
BRAND	PowerDsine™ 3001
MODEL	PD-3001/AC
INPUT POWER	100-250Vac, 0.5A, 50/60Hz
OUTPUT POWER	48Vdc, 0.35A
POWER LINE	1.8 m non-shielded cable without core

POE 2	
BRAND	PHIHONG
MODEL	PSAA20R-560(MOT)
INPUT POWER	100-240Vac, 0.4A, 50-60Hz
OUTPUT POWER	56Vdc, 0.357A
POWER LINE	1.6m non-shielded cable with one core

POE 3	
BRAND	PHIHONG
MODEL	POE16U-480
INPUT POWER	100-240Vac, 0.4A, 50-60Hz
OUTPUT POWER	48Vdc, 0.32A

2. There are 2 antennas for the EUT.

NO.	MODEL	TYPE	GAIN (dBi)	CONNECTOR
1	MA-WO36-10N	Omni-Directional	9.5	N-type Female
2	MA-WA36-DP21	Dual-Polarization	22.0	SMA-Female or N-type Female

3. The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

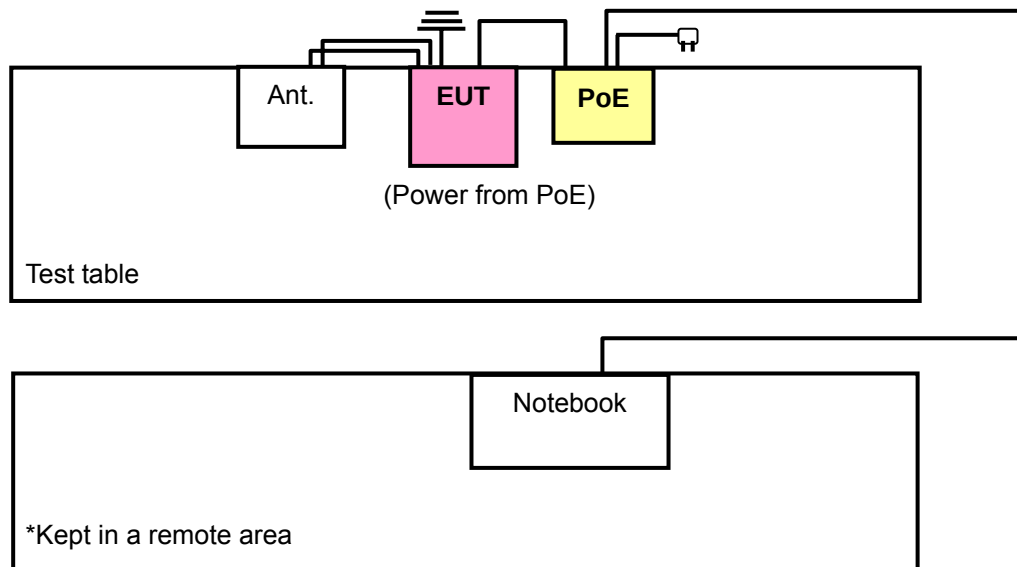
3.2 DESCRIPTION OF TEST MODES

Three channels of each channel bandwidth had been tested.

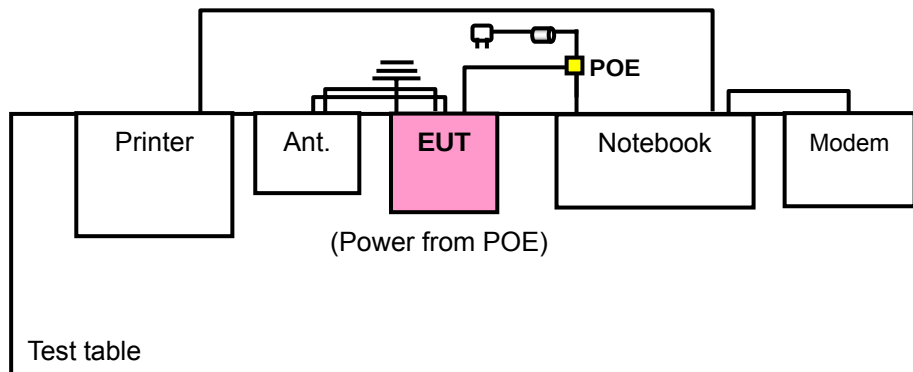
CHANNEL (MHz)	CHANNEL BANDWIDTH			
	3.5 MHz	5.0 MHz	7.0 MHz	10.0 MHz
LOW	3651.75	3652.50	3653.50	3655.00
MIDDLE	3662.50	3662.50	3662.50	3662.50
HIGH	3673.25	3672.50	3671.50	3670.00

3.2.1 CONFIGURATION OF SYSTEM UNDER TEST

FOR TEST MODE WITH POE 1&3



FOR TEST MODE WITH POE 2



3.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO							DESCRIPTION	
	OP	FS	EB	EM	CSE	RE<1G	RE≥1G		
A1	√	√	√	√	√	√	√	POE 1	FOR ANTENNA 1
A2	-	-	-	-	-	√	-	POE 2	
A3	-	-	-	-	-	√	-	POE 3	
B1	√	√	√	√	√	√	√	POE 1	FOR ANTENNA 2
B2	-	-	-	-	-	√	-	POE 2	
B3	-	-	-	-	-	√	-	POE 3	

Where **OP**: Output power **FS**: Frequency stability
EB: Emission bandwidth **EM**: Emission masks
CSE: Conducted spurious emissions **RE<1G**: Radiated emission below 1GHz
RE≥1G: Radiated emission above 1GHz

NOTE: "-" means no effect.

OUTPUT POWER MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1, B1	L, M, H	OFDMA	QPSK	3.5MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	5.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	7.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	10.0MHz	1/2

FREQUENCY STABILITY MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate, and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1	H	OFDMA	QPSK	3.5MHz	1/2
A1	H	OFDMA	QPSK	5.0MHz	1/2
A1	H	OFDMA	QPSK	7.0MHz	1/2
A1	L	OFDMA	QPSK	10.0MHz	1/2
B1	H	OFDMA	QPSK	3.5MHz	1/2
B1	H	OFDMA	QPSK	5.0MHz	1/2
B1	L	OFDMA	QPSK	7.0MHz	1/2
B1	L	OFDMA	QPSK	10.0MHz	1/2

EMISSION BANDWIDTH MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate, and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1, B1	L, M, H	OFDMA	QPSK	3.5MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	5.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	7.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	10.0MHz	1/2

EMISSION MASKS MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate, and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1, B1	L, M, H	OFDMA	QPSK	3.5MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	5.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	7.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	10.0MHz	1/2

CONDUCTED SPURIOUS EMISSIONS MEASUREMENT:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate, and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1, B1	L, M, H	OFDMA	QPSK	3.5MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	5.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	7.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	10.0MHz	1/2

RADIATED EMISSION MEASUREMENT (BELOW 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1~A3, B1~B3	H	OFDMA	QPSK	3.5MHz	1/2
A1~A3, B1~B3	H	OFDMA	QPSK	5.0MHz	1/2
A1~A3, B1~B3	H	OFDMA	QPSK	7.0MHz	1/2
A1~A3, B1~B3	L	OFDMA	QPSK	10.0MHz	1/2

RADIATED EMISSION MEASUREMENT (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, coding rate and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	CHANNEL BANDWIDTH	CODING RATE
A1, B1	L, M, H	OFDMA	QPSK	3.5MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	5.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	7.0MHz	1/2
A1, B1	L, M, H	OFDMA	QPSK	10.0MHz	1/2

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER (SYSTEM)	TESTED BY
OP	23deg. C, 66%RH, 991 hPa	120Vac, 60Hz	Mark Liao
FS	23deg. C, 66%RH, 991 hPa	120Vac, 60Hz	Mark Liao
EB	23deg. C, 66%RH, 991 hPa	120Vac, 60Hz	Mark Liao
EM	23deg. C, 66%RH, 991 hPa	120Vac, 60Hz	Mark Liao
CSE	23deg. C, 66%RH, 991 hPa	120Vac, 60Hz	Mark Liao
RE < 1G	25deg. C, 65%RH, 1010 hPa	120Vac, 60Hz	Brad Wu
RE ≥ 1G	25deg. C, 65%RH, 1010 hPa	120Vac, 60Hz	Brad Wu

3.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC 47 CFR Part 2

FCC 47 CFR Part 90

965270 D01 Pwr Meas Part 90 Z Equipment v01

ANSI/TIA/EIA-603-C-2004

All test items have been performed and recorded as per the above standards.

NOTE: The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (DoC). The test report has been issued separately.



3.4 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.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	NOTEBOOK	DELL	D600	CN-0G5152-48 643-49C-8226	FCC DoC Approved
2	PRINTER	EPSON	LQ-300+	DCGY054146	FCC DoC Approved
3	MODEM	ACEEX	1414V/3	0401008253	IFAXDM1414

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	NA
2	1.8m braid shielded wire, DB25 connector, w/o core.
3	1.2m braid shielded wire, DB25 & DB9 connector, w/o core.

NOTE: All power cords of the above support units are non shielded (1.8m).

4 TEST TYPES AND RESULTS

4.1 OUTPUT POWER AND POWER DENSITY MEASUREMENT

4.1.1 LIMITS OF OUTPUT POWER AND POWER DENSITY

PER FCC PART 90.1321

BASE AND FIXED STATIONS

Base and fixed stations are limited to 25 Watts/25 MHz equivalent isotropical radiated power (EIRP). In any event, the peak EIRP power density shall not exceed 1 Watt in any one-megahertz slice of spectrum.

MOBILE AND PORTABLE STATIONS

Mobile and portable stations are limited to 1 Watt/25 MHz EIRP. In any event, the peak EIRP density shall not exceed 40 milliWatts in any one-megahertz slice of spectrum.

4.1.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY44360128	Feb. 23, 2010	Feb. 22, 2011
RF cable	SUCOFLEX 104	257029	Sep. 12, 2009	Sep. 11, 2010
DC-6GHz 20dB 50W Fixed attenuator Woken	MDC9331N-20	0724	May 15, 2010	May 14, 2011

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.1.3 TEST PROCEDURES

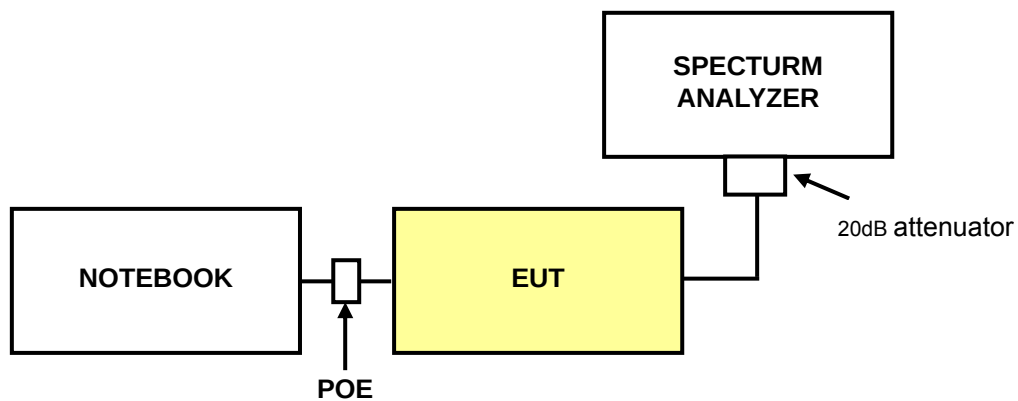
OUTPUT POWER

1. Connect the DUT transmitter output to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to approximately 1% of EBW.
5. Set the video bandwidth (VBW) to 3 x RBW.
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging mode.
11. Use the Band/Channel Power function to determine the integrated power over the full EBW.
12. Record the band power level.
13. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
14. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

POWER DENSITY

1. Connect the transmitter to the spectrum analyzer via coaxial cable while ensuring proper impedance matching.
2. Tune the analyzer to the nominal center frequency of the emission bandwidth (EBW).
3. Set the span to twice the nominal EBW (span = 2 x EBW).
4. Set the resolution bandwidth (RBW) to 1 MHz.
5. Set the video bandwidth (VBW) to 3MHz.
6. Select the average power (RMS) display detector.
7. Set the number of measurement points to ≥ 1001 .
8. Use auto-coupled sweep time.
9. Perform the measurement over an interval of time when the transmission is continuous and at its maximum power level.
10. Utilize trace averaging over 100 traces in the power averaging mode.
11. Find the maximum trace amplitude (peak search) and record.
12. Adjust the recorded level by applying appropriate correction factors for the measurement set-up.
13. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

4.1.4 TEST SETUP



4.1.5 EUT OPERATING CONDITIONS

- Placed the EUT on the testing table.
- Prepared one notebook system outside of testing area to act as a communication partners.
- The communication partner connected with EUT via a RJ45 UTP cable and run a test program (provided by manufacturer) to enable EUT under transmission condition continuously at specific channel frequency.

4.1.6 TEST RESULTS

DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	A1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3651.75	22.97	9.50	32.47	1.766	3.50
Middle	3662.50	23.17	9.50	32.67	1.849	3.50
High	3673.25	23.20	9.50	32.70	1.862	3.50

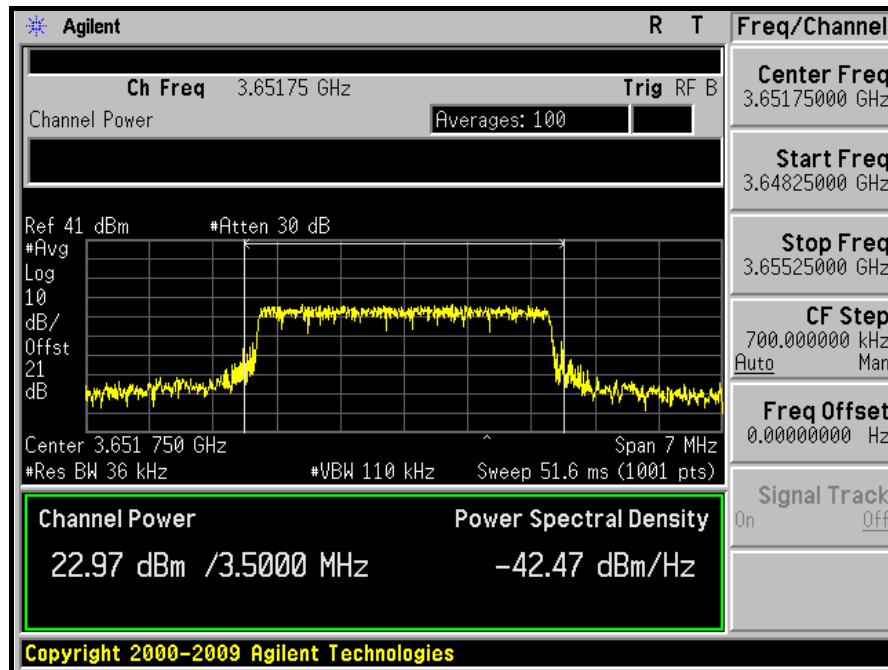
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3651.75	20.196	9.50	29.70	0.932	1.00
Middle	3662.50	19.989	9.50	29.49	0.889	1.00
High	3673.25	19.617	9.50	29.12	0.816	1.00

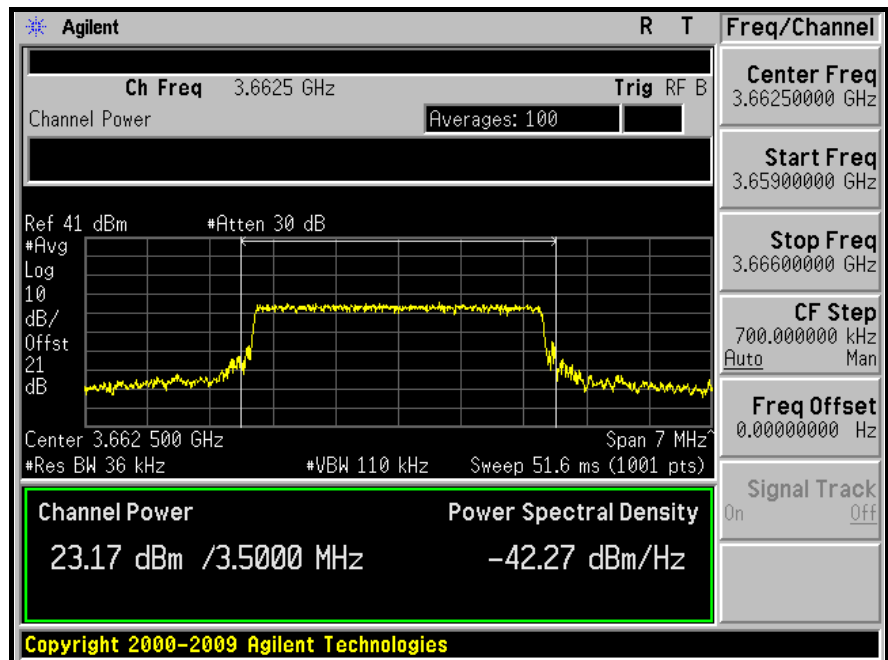
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

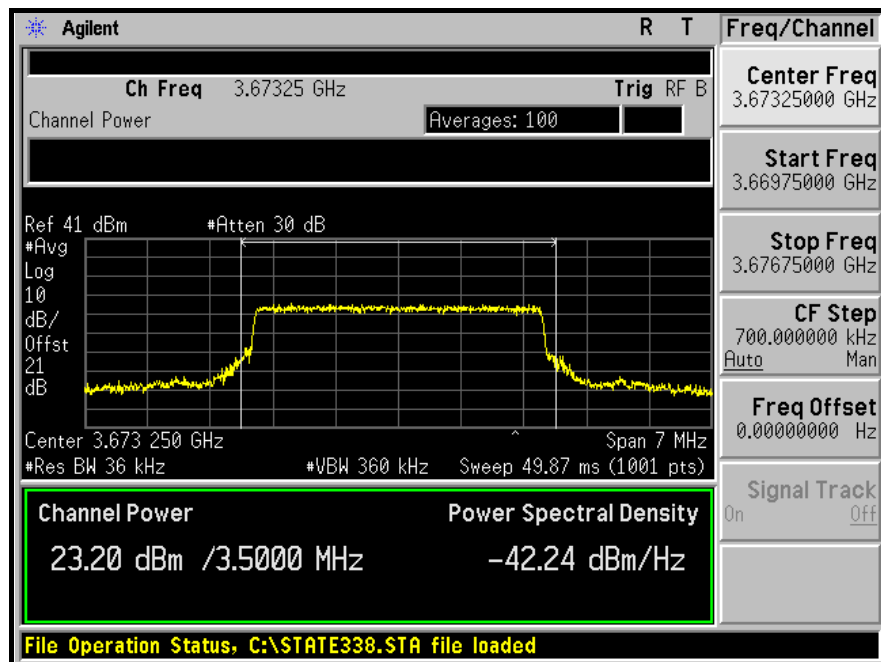
LOW CHANNEL



MIDDLE CHANNEL

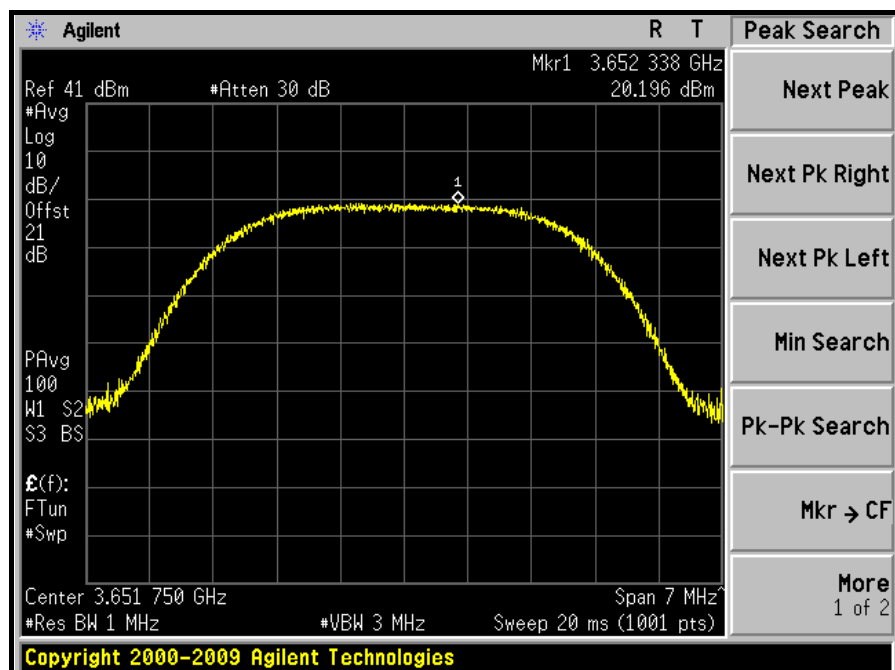


HIGH CHANNEL

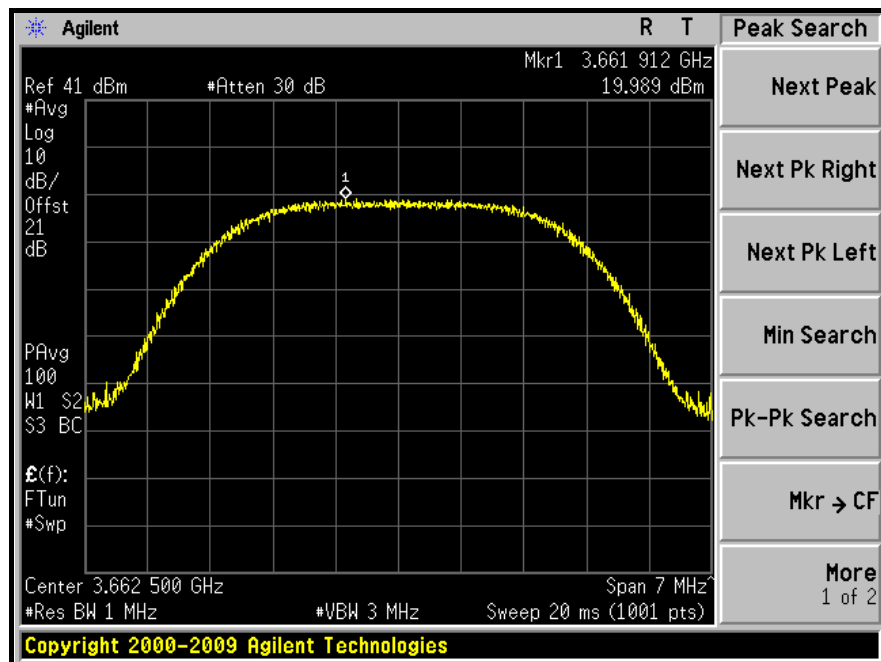


POWER DENSITY

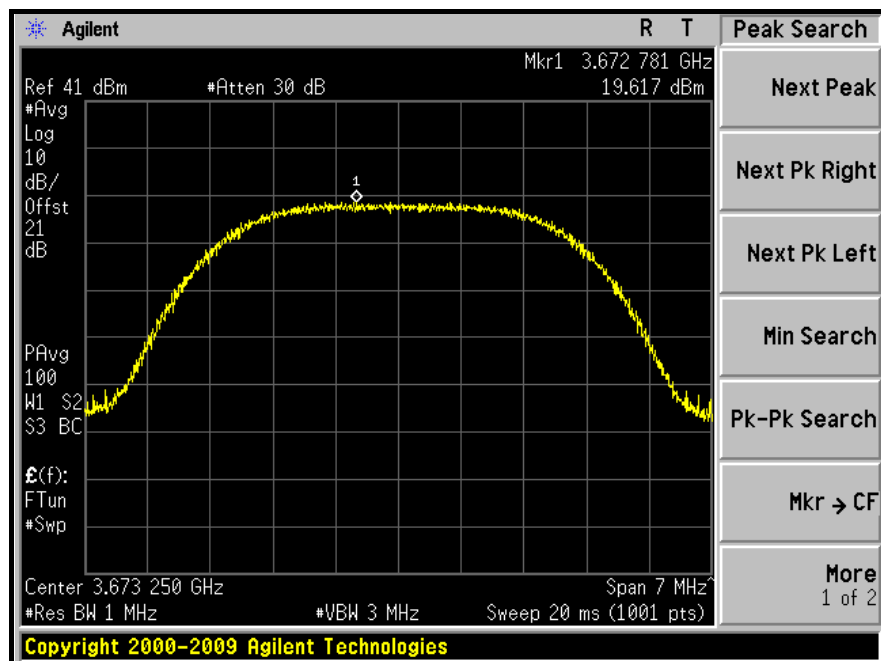
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	A1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3652.50	23.80	9.50	33.30	2.138	5.00
Middle	3662.50	23.97	9.50	33.47	2.223	5.00
High	3672.50	24.08	9.50	33.58	2.280	5.00

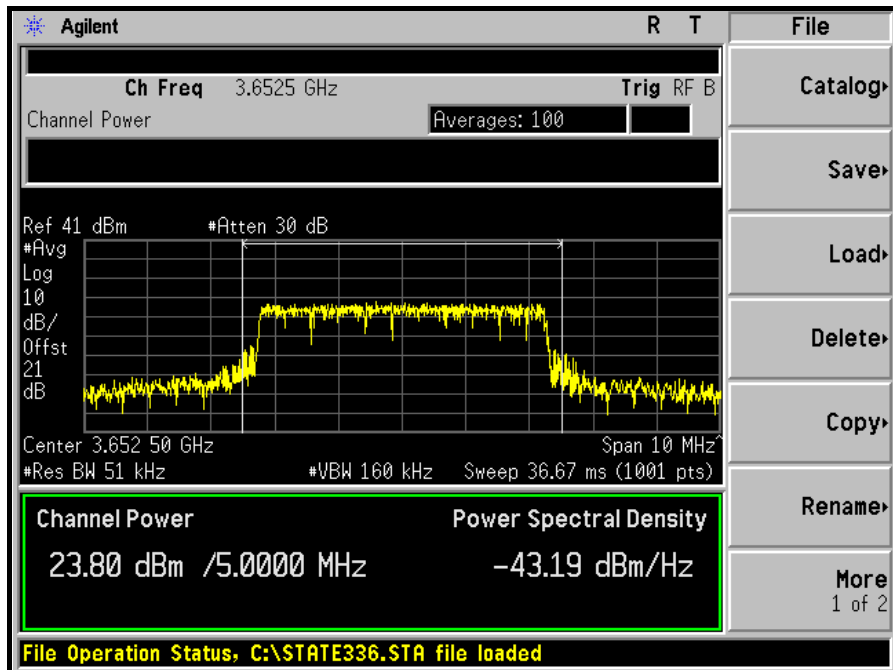
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3652.50	19.797	9.50	29.30	0.851	1.00
Middle	3662.50	19.615	9.50	29.12	0.816	1.00
High	3672.50	19.908	9.50	29.41	0.873	1.00

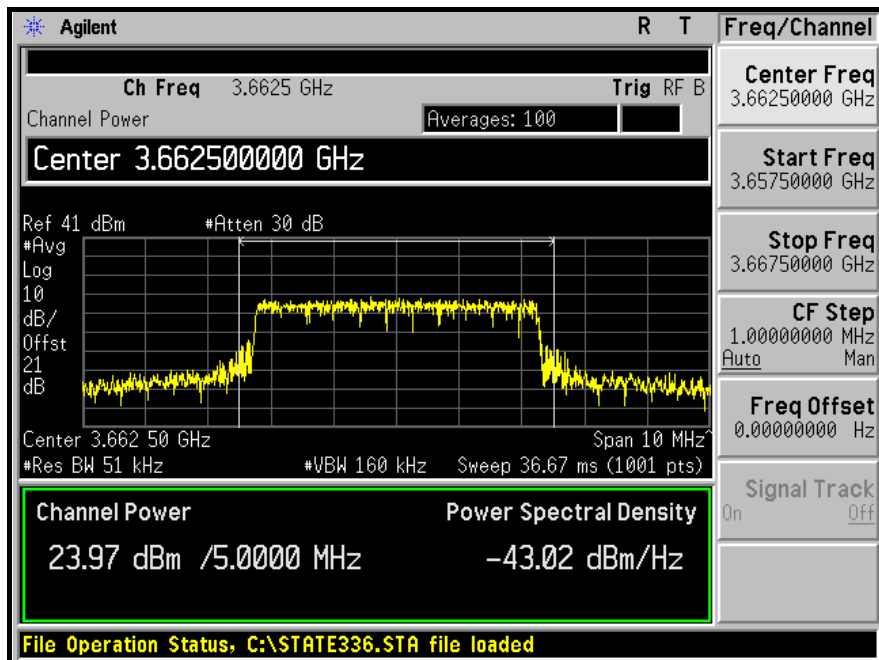
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

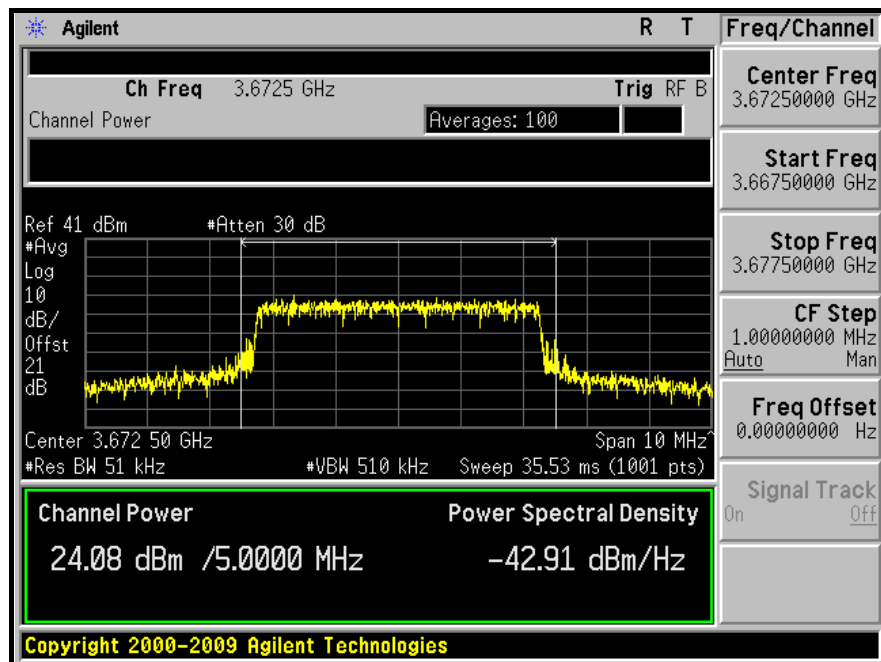
LOW CHANNEL



MIDDLE CHANNEL

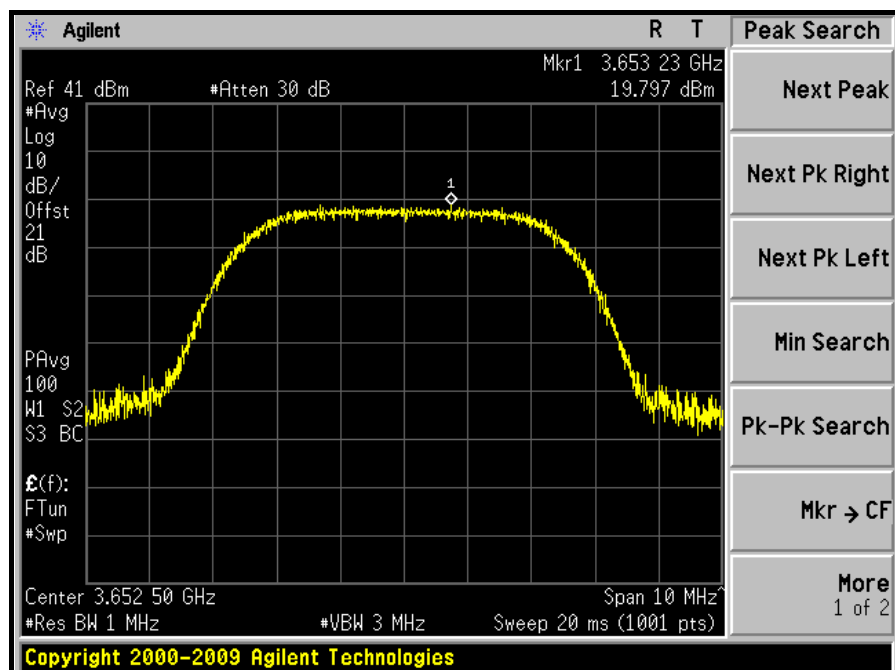


HIGH CHANNEL

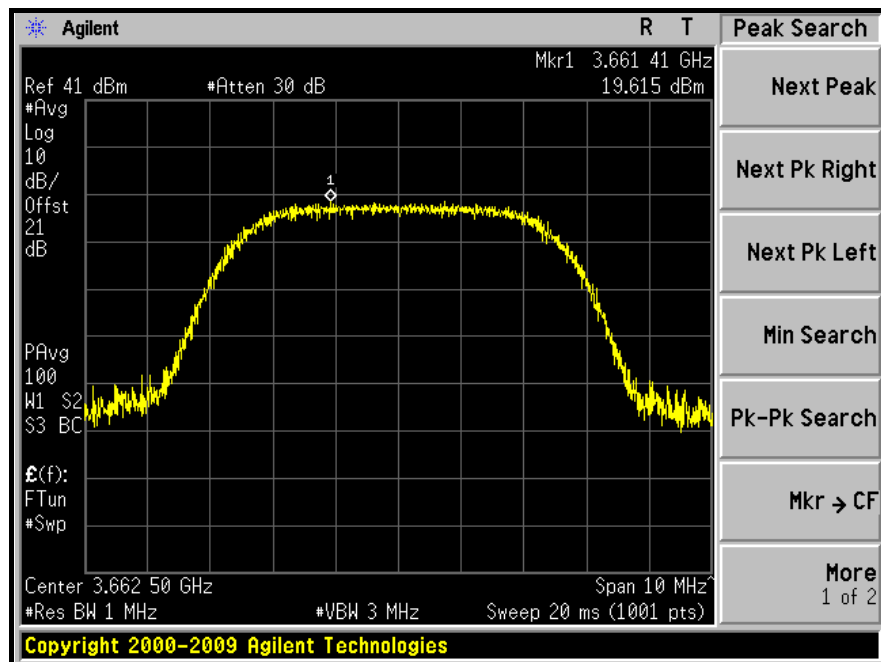


POWER DENSITY

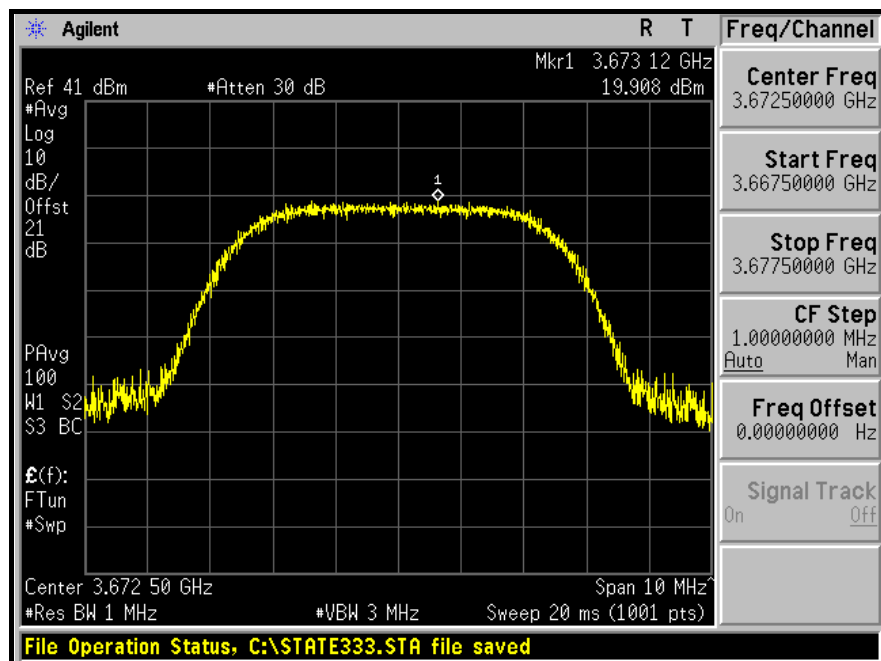
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	A1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3653.50	25.38	9.50	34.88	3.076	7.00
Middle	3662.50	25.22	9.50	34.72	2.965	7.00
High	3671.50	25.21	9.50	34.71	2.958	7.00

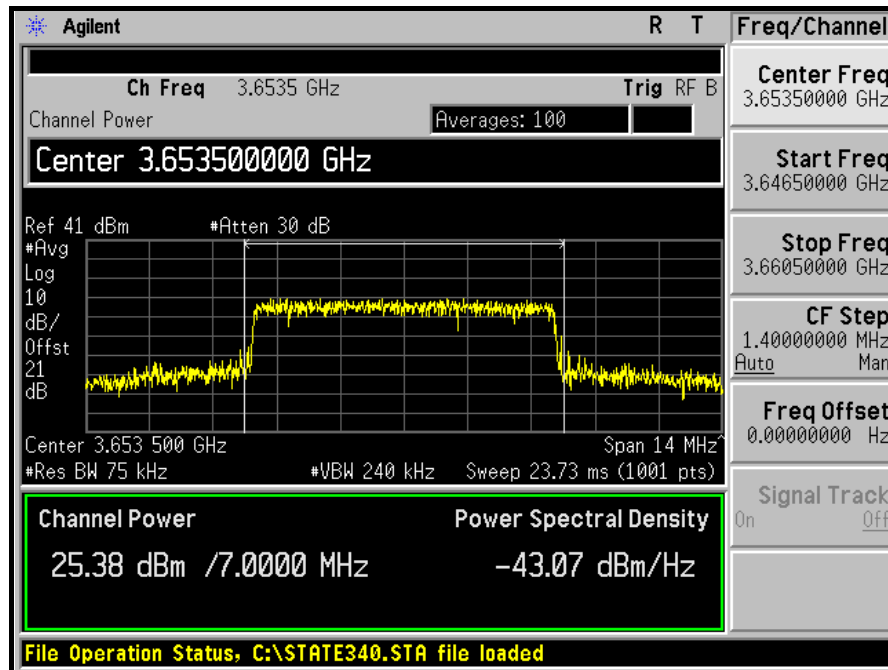
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3653.50	20.307	9.50	29.81	0.957	1.00
Middle	3662.50	20.199	9.50	29.70	0.933	1.00
High	3671.50	20.119	9.50	29.62	0.916	1.00

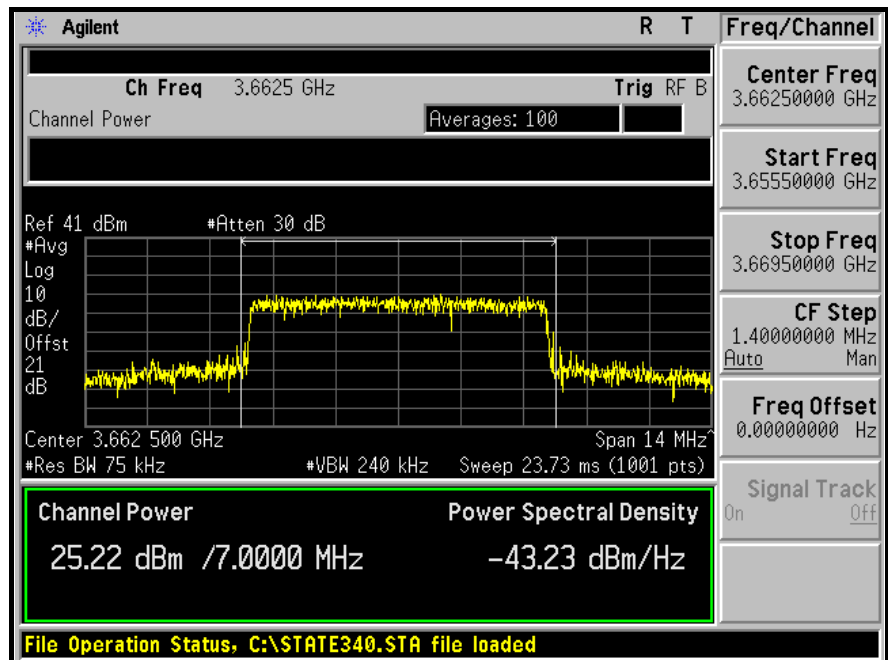
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

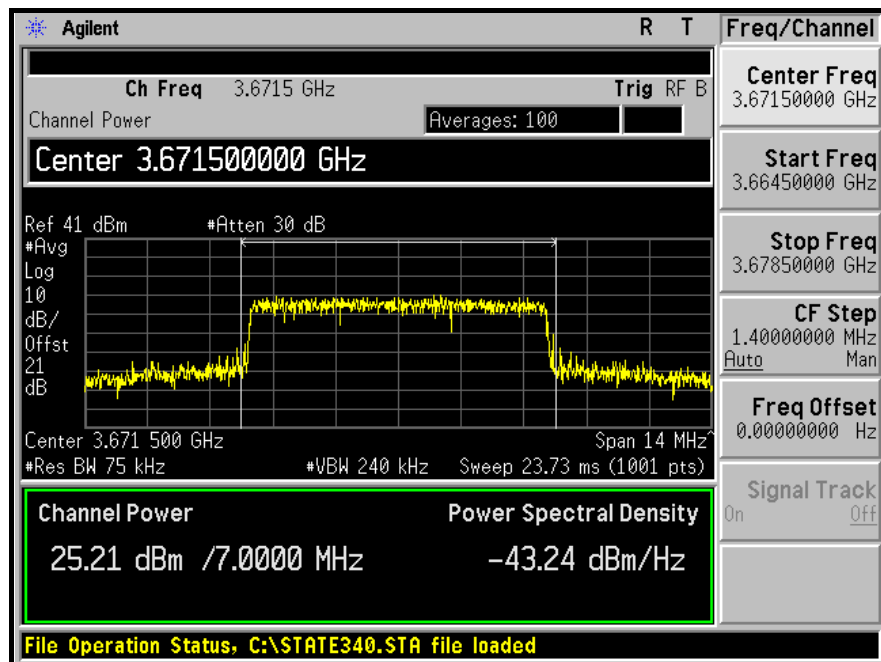
LOW CHANNEL



MIDDLE CHANNEL

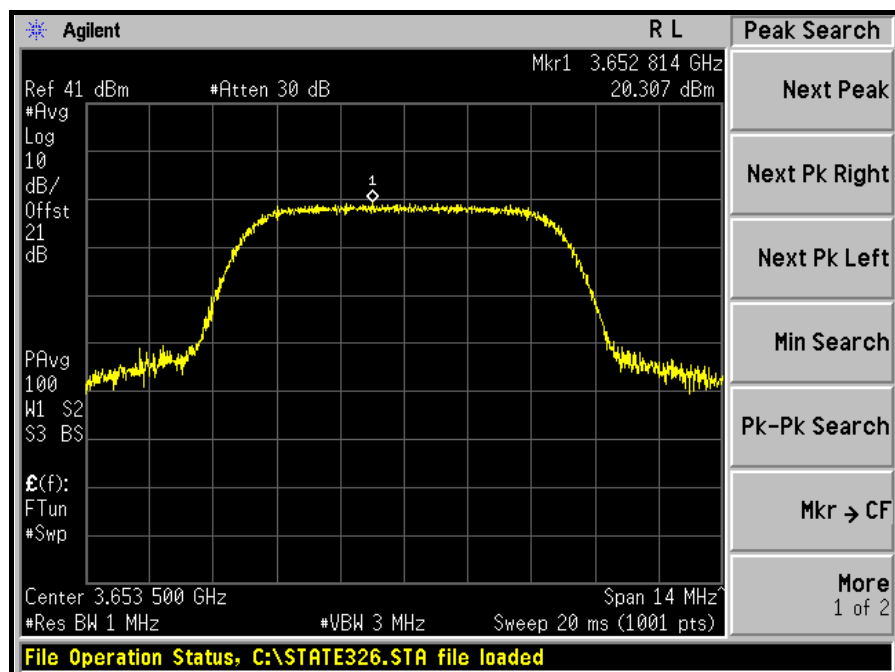


HIGH CHANNEL

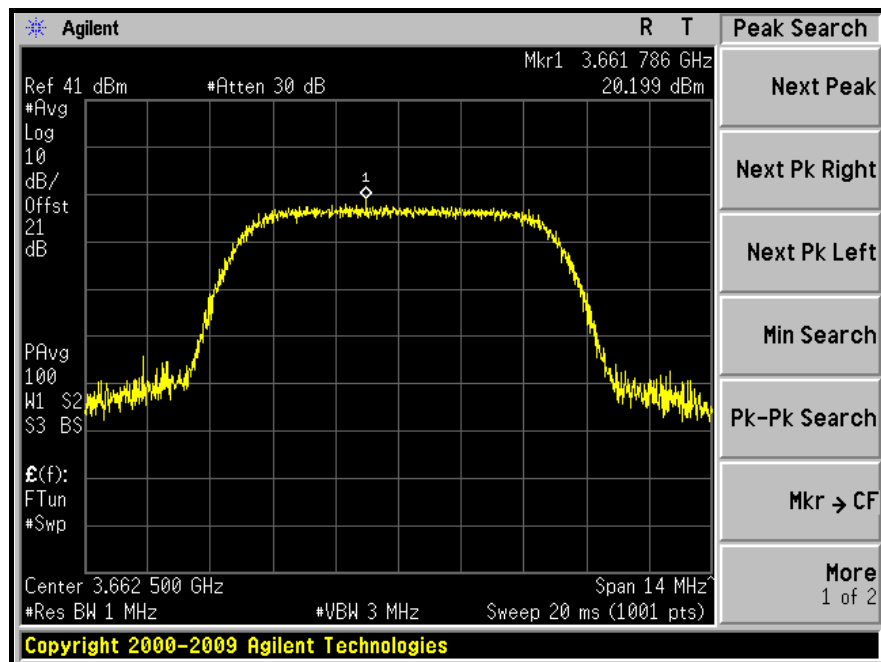


POWER DENSITY

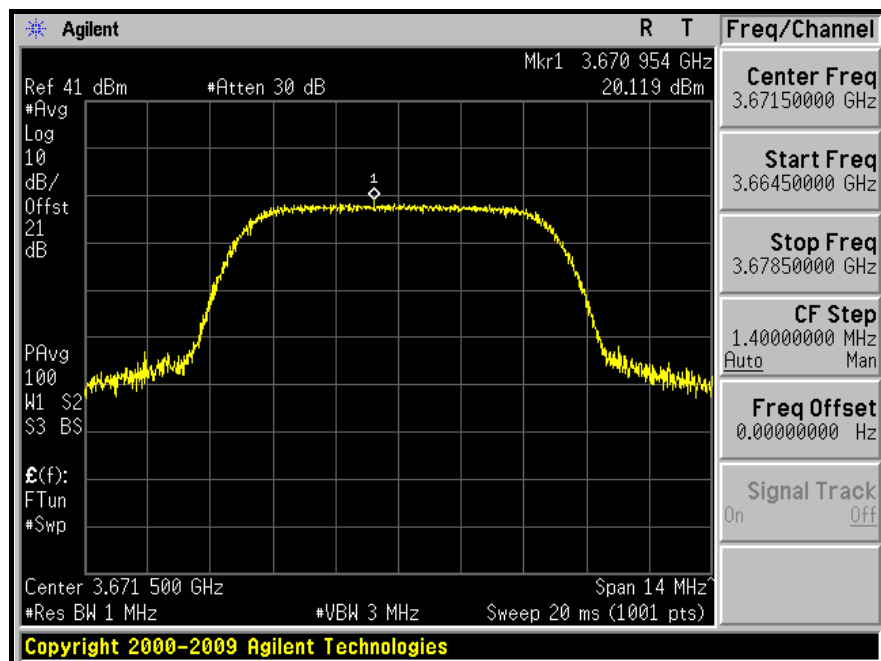
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	A1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3655.00	26.59	9.50	36.09	4.064	10.00
Middle	3662.50	26.52	9.50	36.02	3.999	10.00
High	3670.00	26.53	9.50	36.03	4.009	10.00

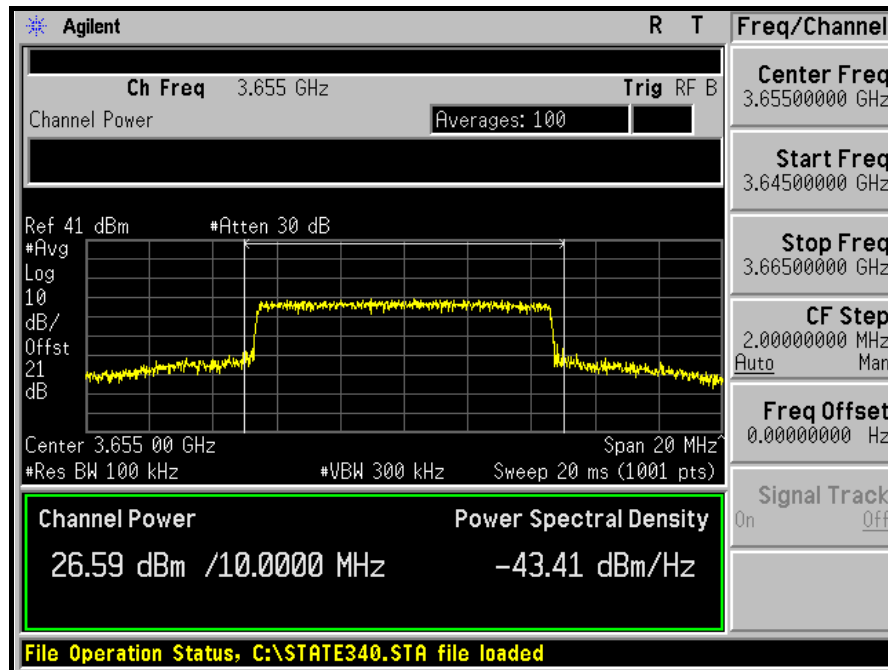
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3655.00	19.905	9.50	29.41	0.872	1.00
Middle	3662.50	19.707	9.50	29.21	0.833	1.00
High	3670.00	19.830	9.50	29.33	0.857	1.00

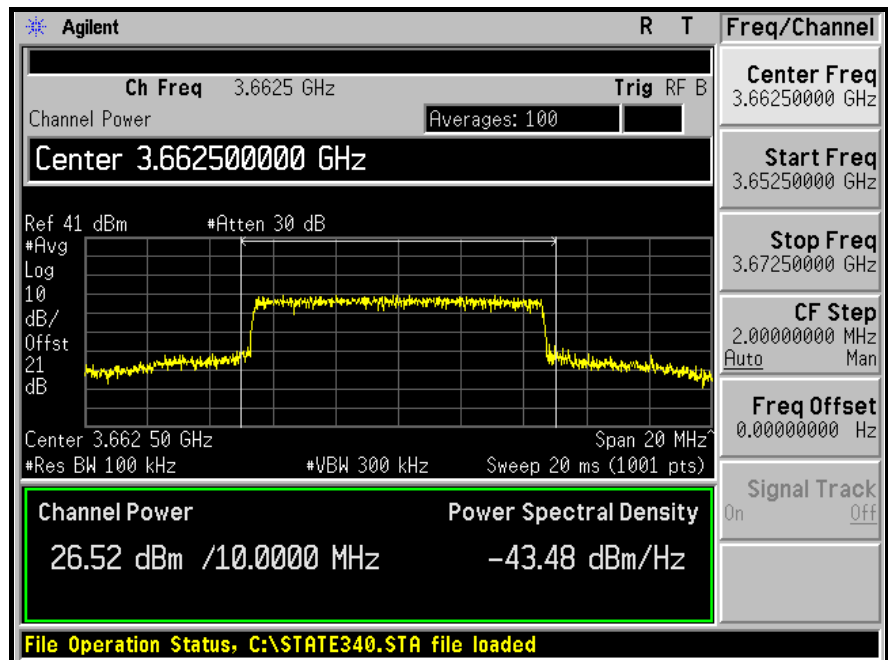
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

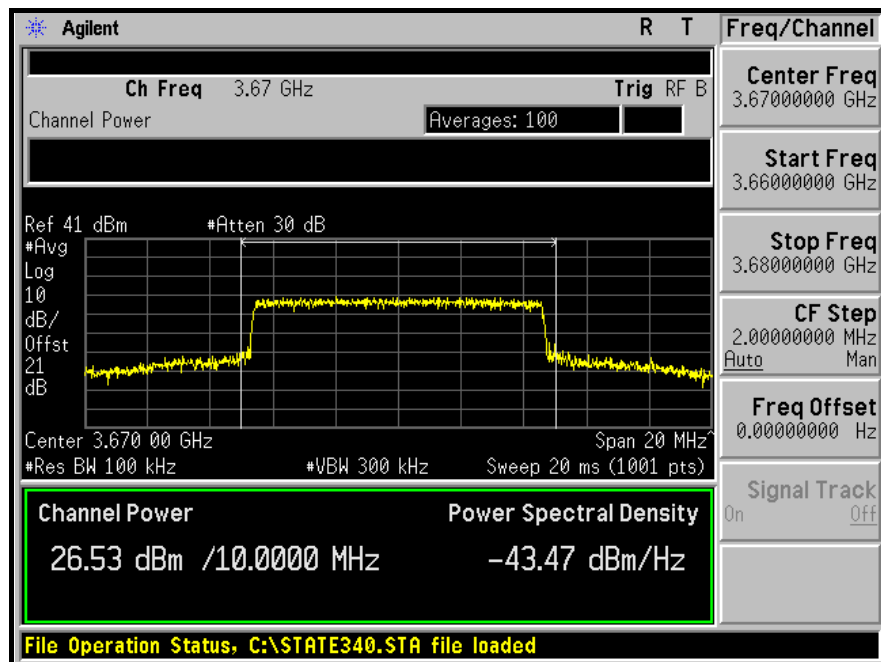
LOW CHANNEL



MIDDLE CHANNEL

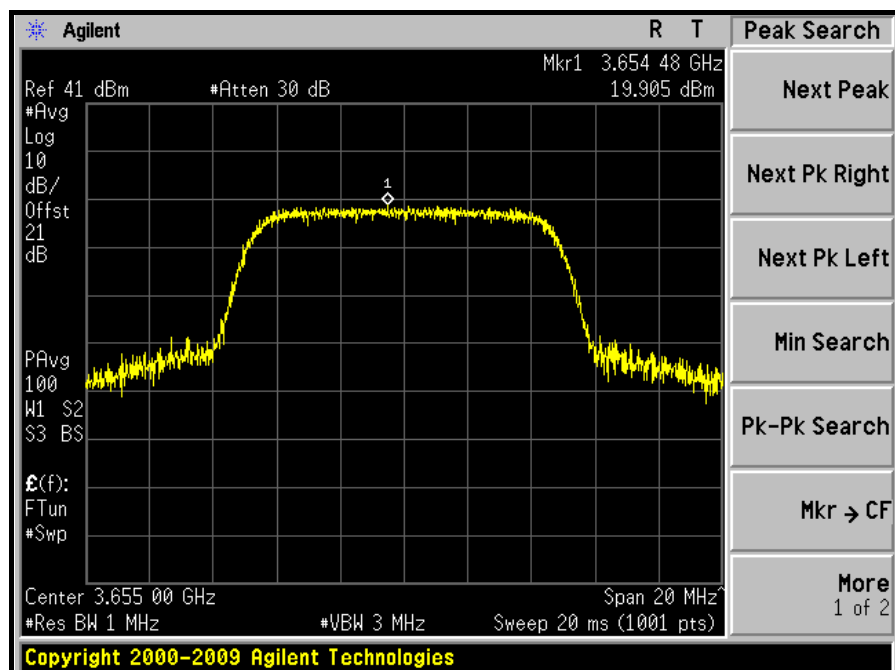


HIGH CHANNEL



POWER DENSITY

LOW CHANNEL



DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	B1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3651.75	11.16	22.00	33.16	2.070	3.50
Middle	3662.50	11.58	22.00	33.58	2.280	3.50
High	3673.25	11.21	22.00	33.21	2.094	3.50

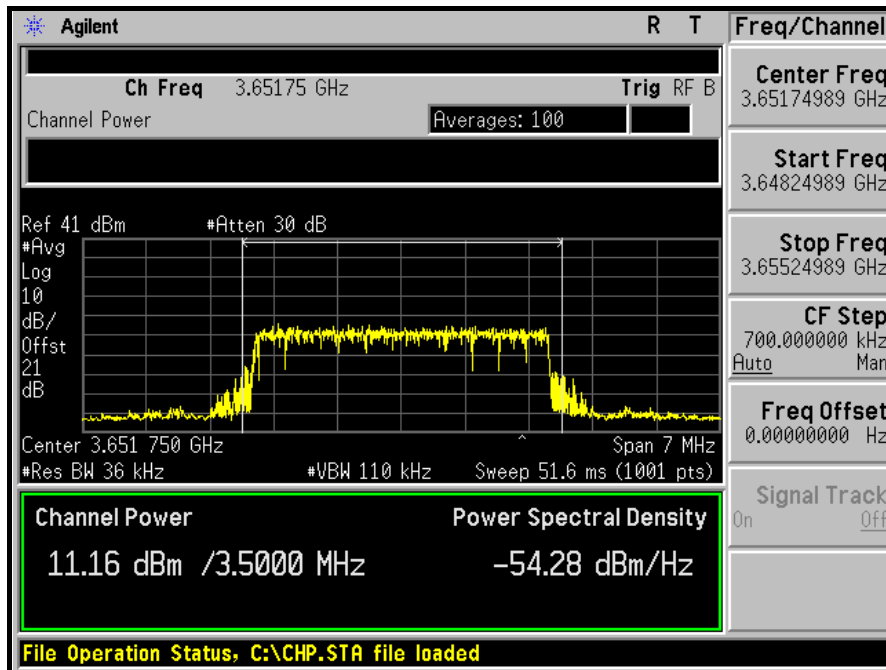
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3651.75	7.560	22.00	29.56	0.904	1.00
Middle	3662.50	7.612	22.00	29.61	0.915	1.00
High	3673.25	7.833	22.00	29.83	0.962	1.00

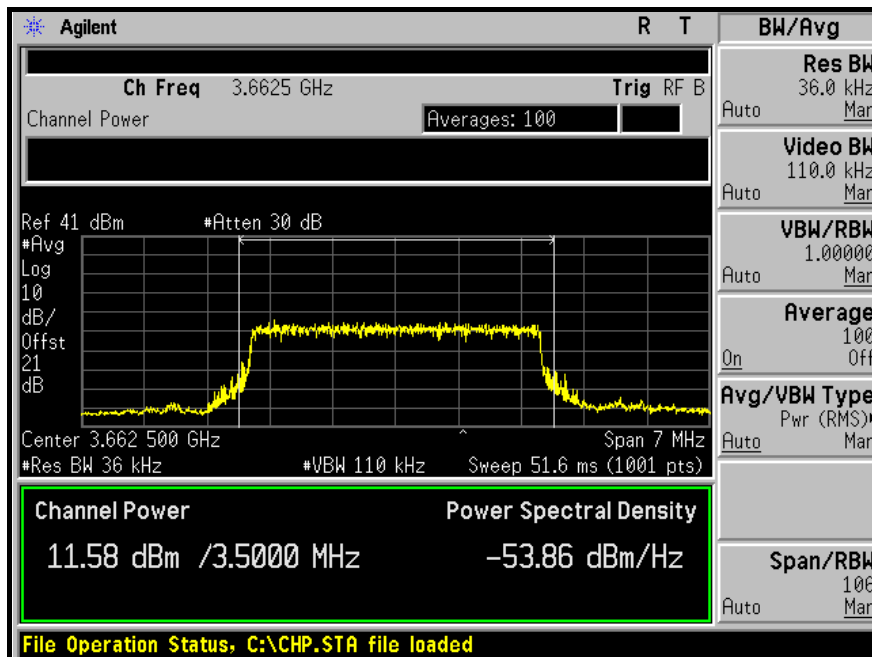
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

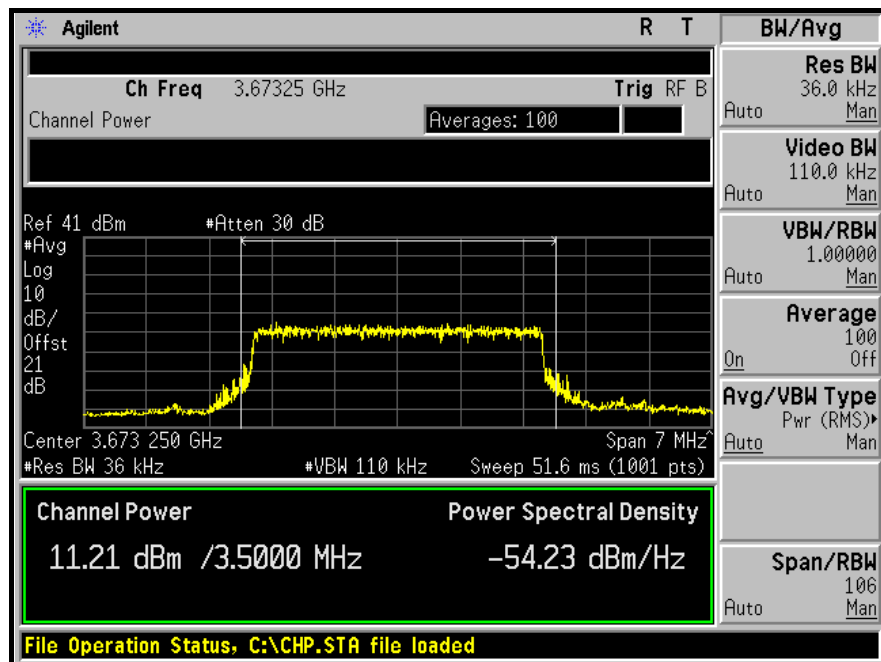
LOW CHANNEL



MIDDLE CHANNEL

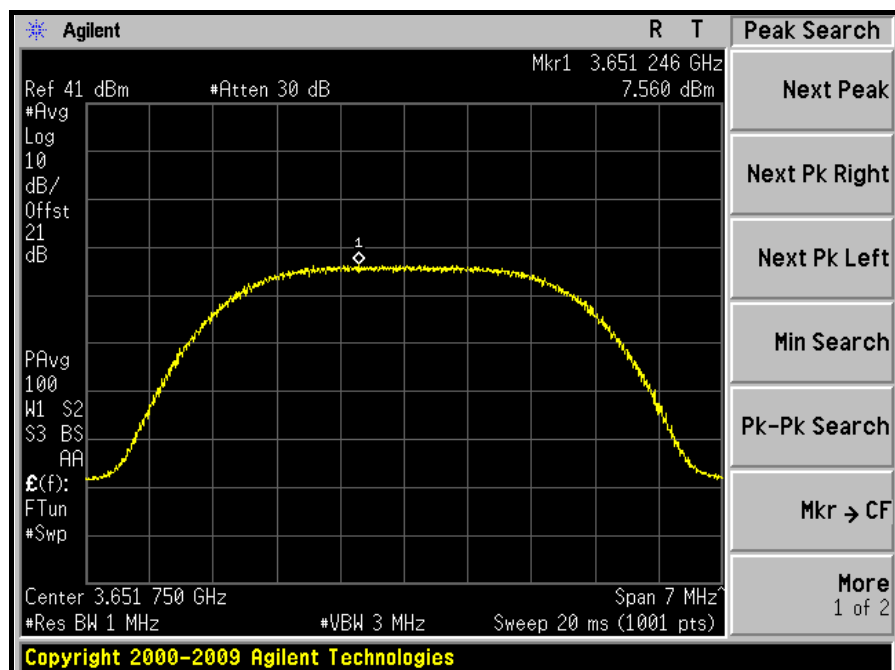


HIGH CHANNEL

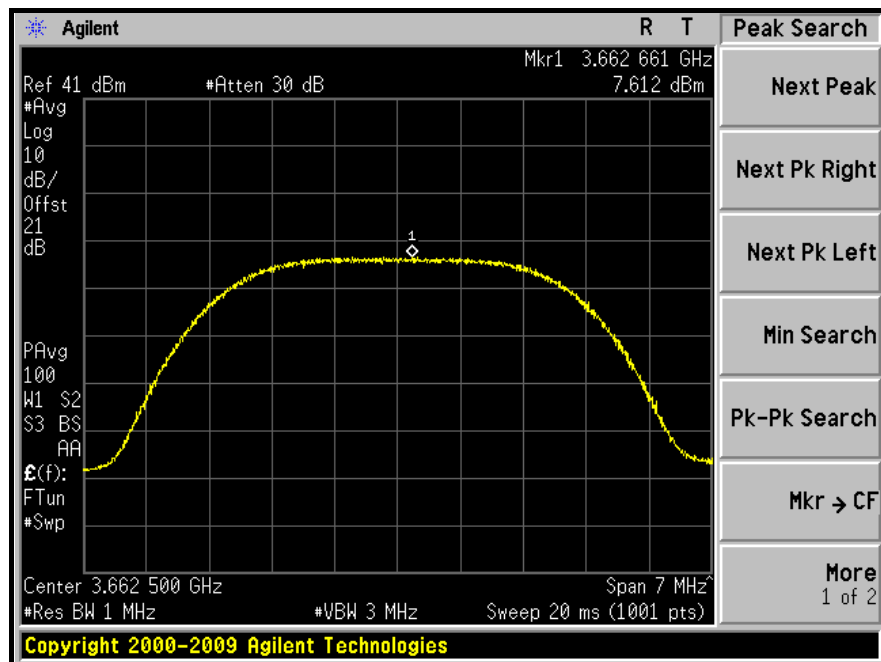


POWER DENSITY

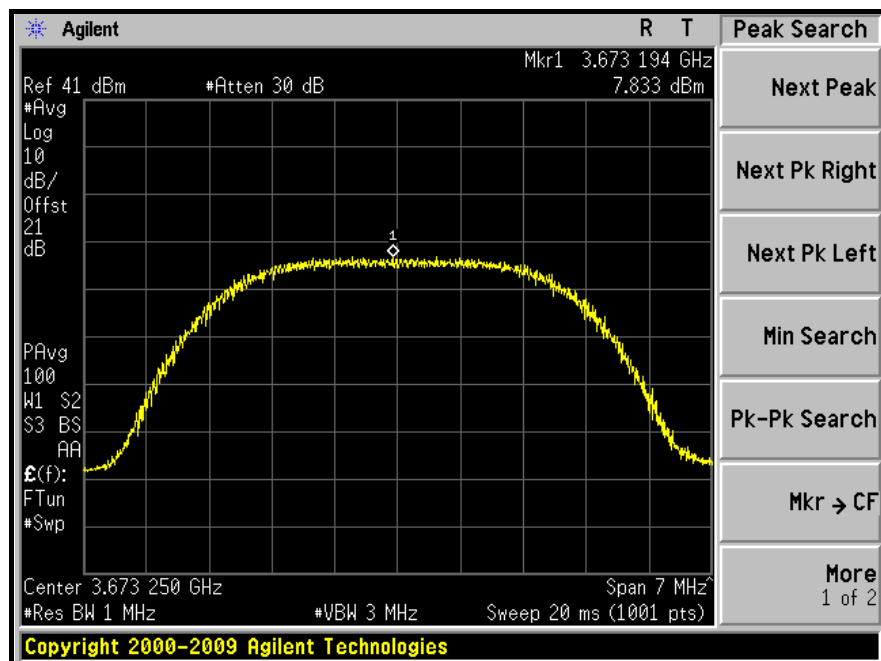
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL





A D T

DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	B1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3652.50	11.77	22.00	33.77	2.382	5.00
Middle	3662.50	12.34	22.00	34.34	2.716	5.00
High	3672.50	11.88	22.00	33.88	2.443	5.00

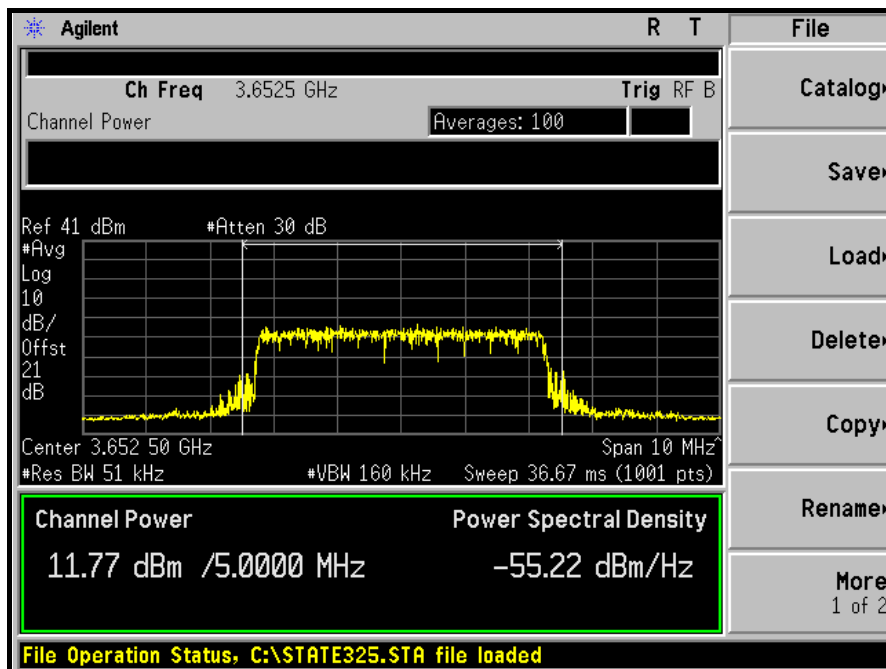
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3652.50	7.804	22.00	29.80	0.956	1.00
Middle	3662.50	7.845	22.00	29.85	0.965	1.00
High	3672.50	7.850	22.00	29.85	0.966	1.00

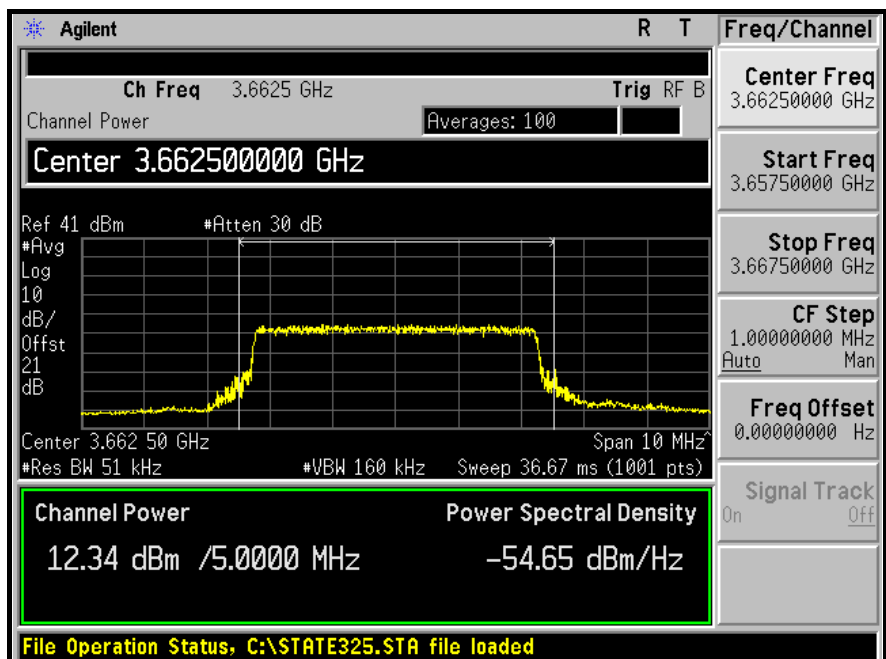
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

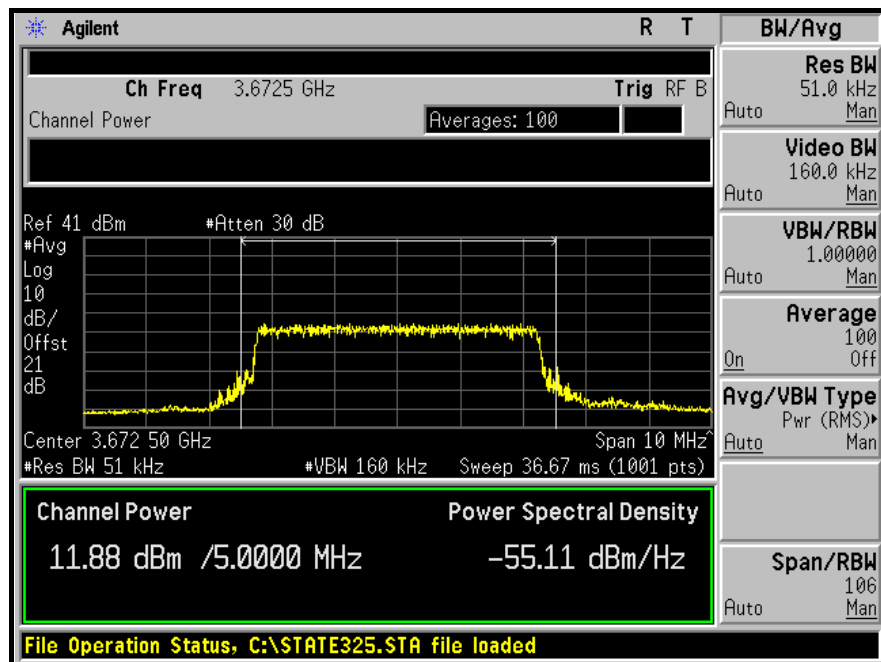
LOW CHANNEL



MIDDLE CHANNEL

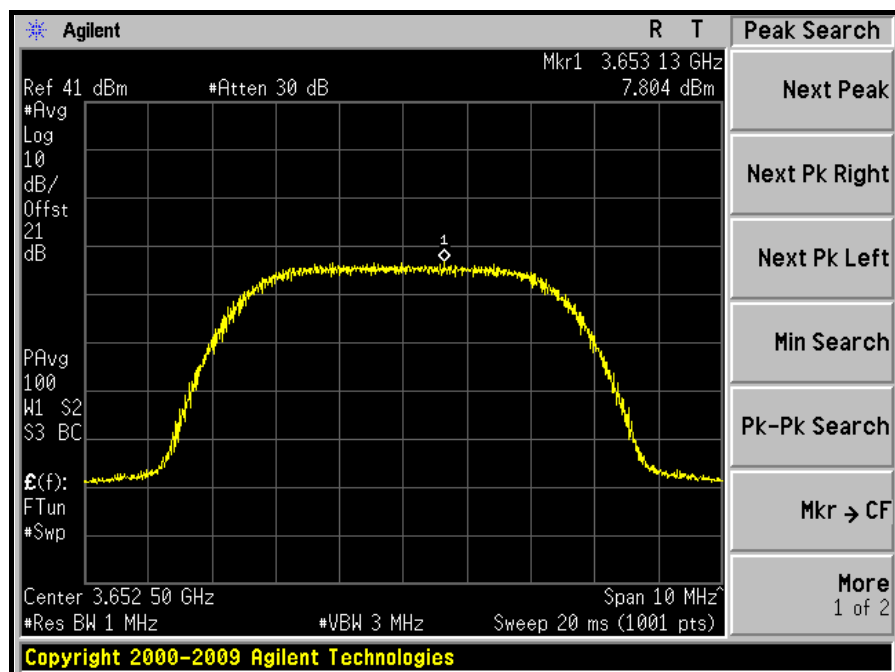


HIGH CHANNEL

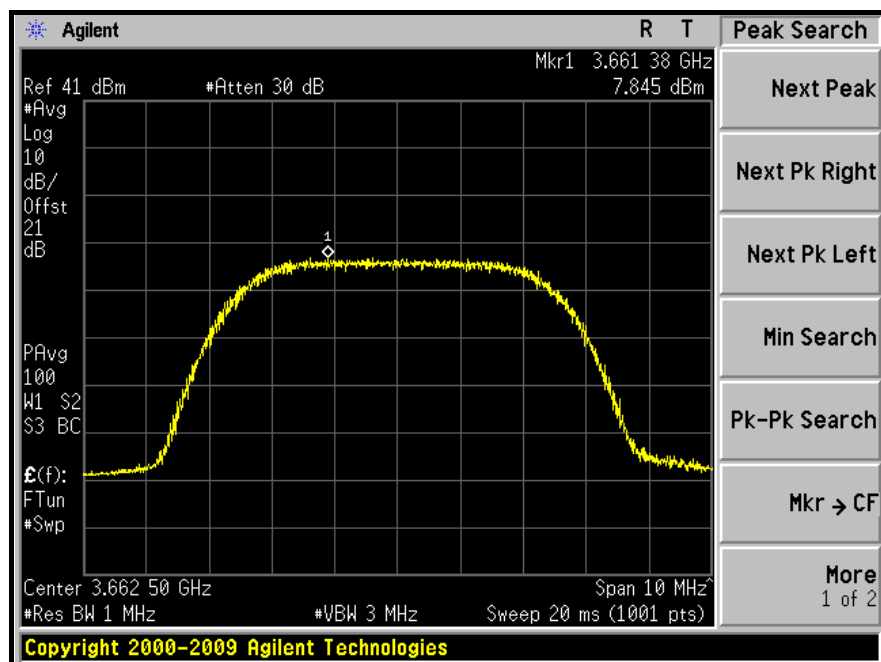


POWER DENSITY

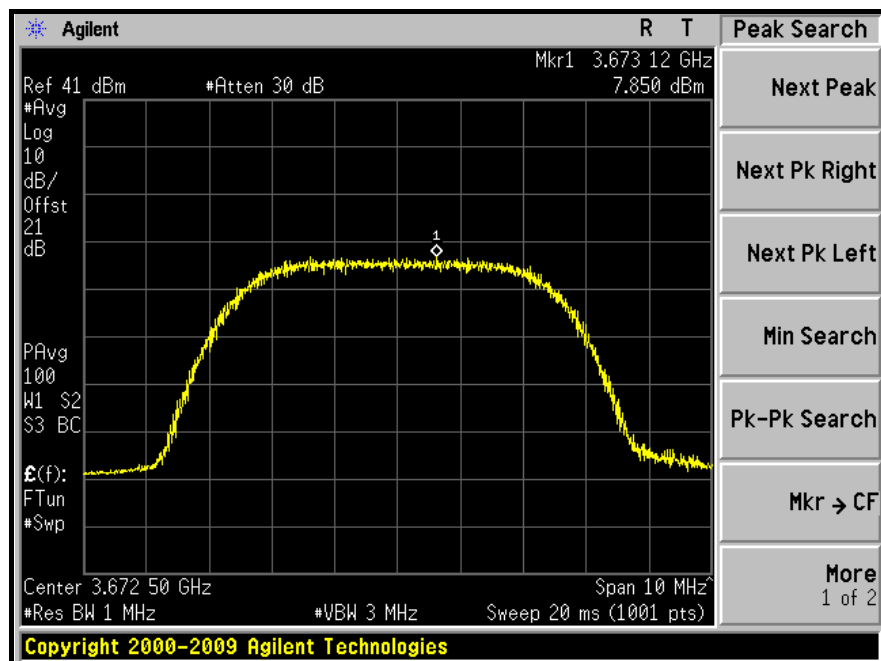
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	B1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3653.50	13.28	22.00	35.28	3.373	7.00
Middle	3662.50	12.81	22.00	34.81	3.027	7.00
High	3671.50	12.43	22.00	34.43	2.773	7.00

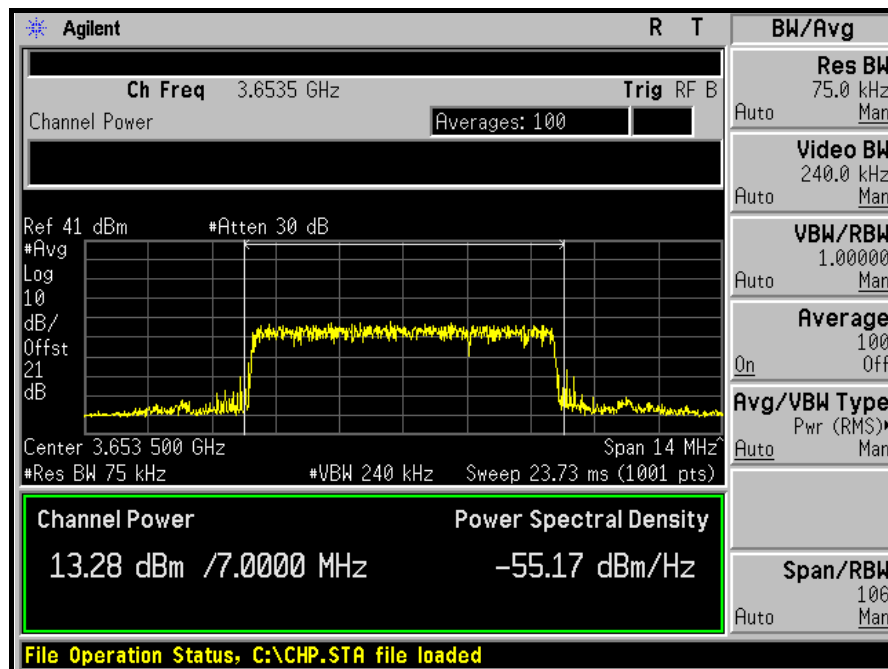
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3653.50	7.206	22.00	29.21	0.833	1.00
Middle	3662.50	7.471	22.00	29.47	0.885	1.00
High	3671.50	7.379	22.00	29.38	0.867	1.00

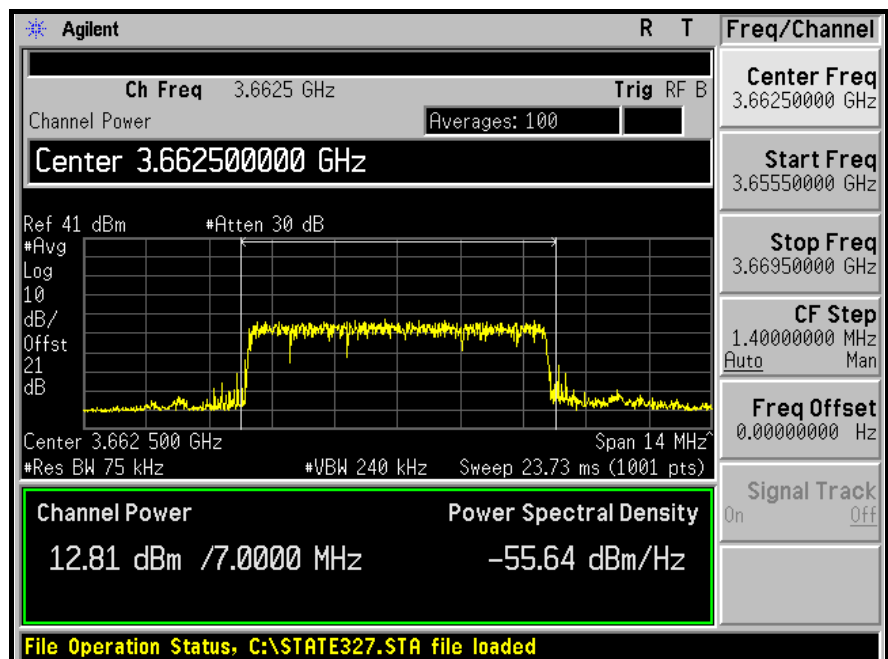
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

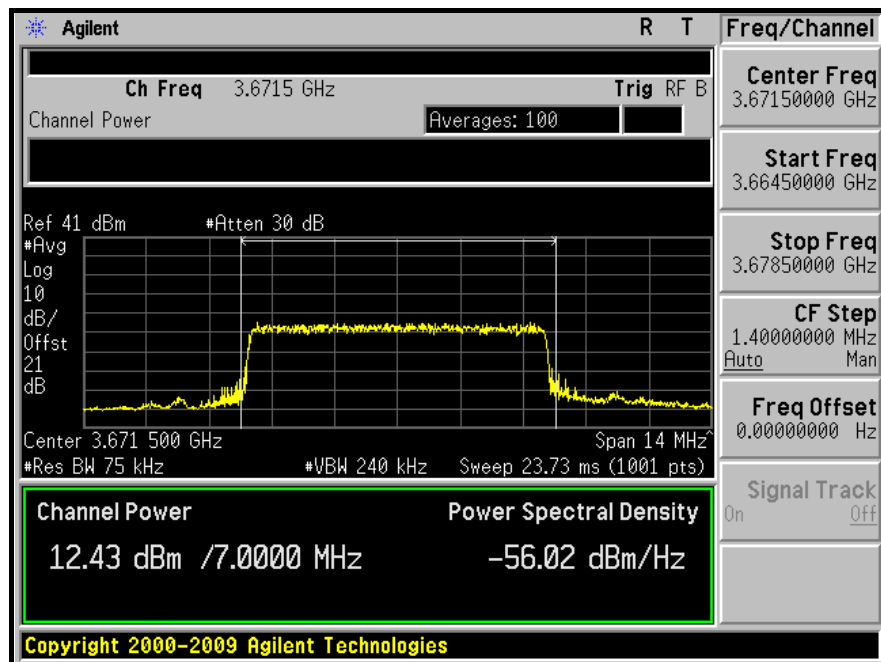
LOW CHANNEL



MIDDLE CHANNEL

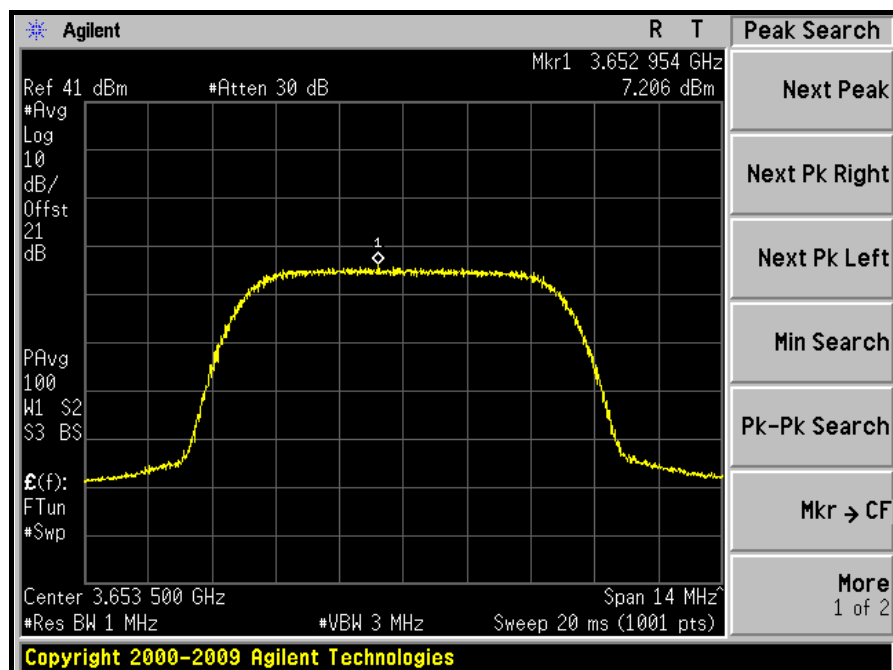


HIGH CHANNEL

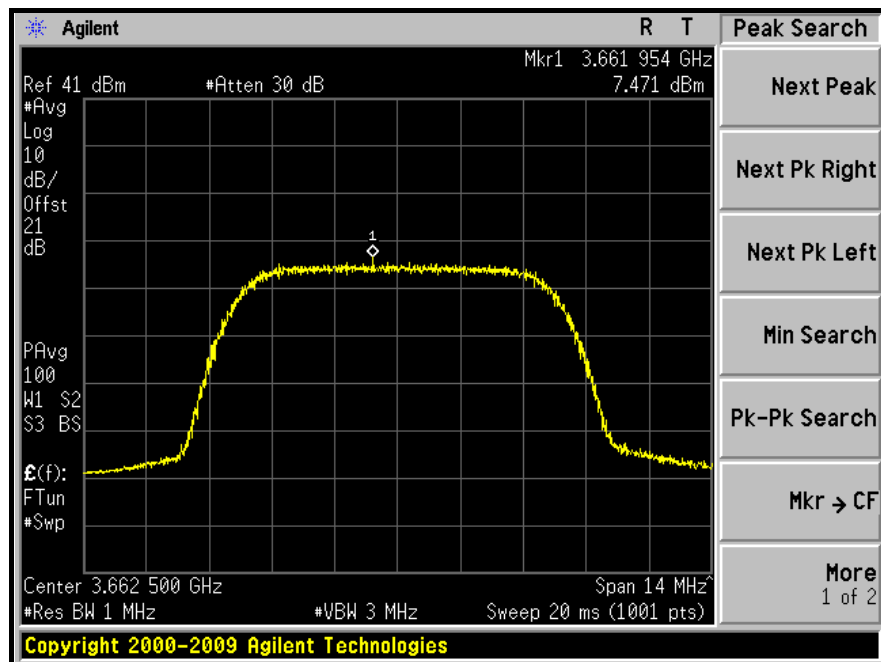


POWER DENSITY

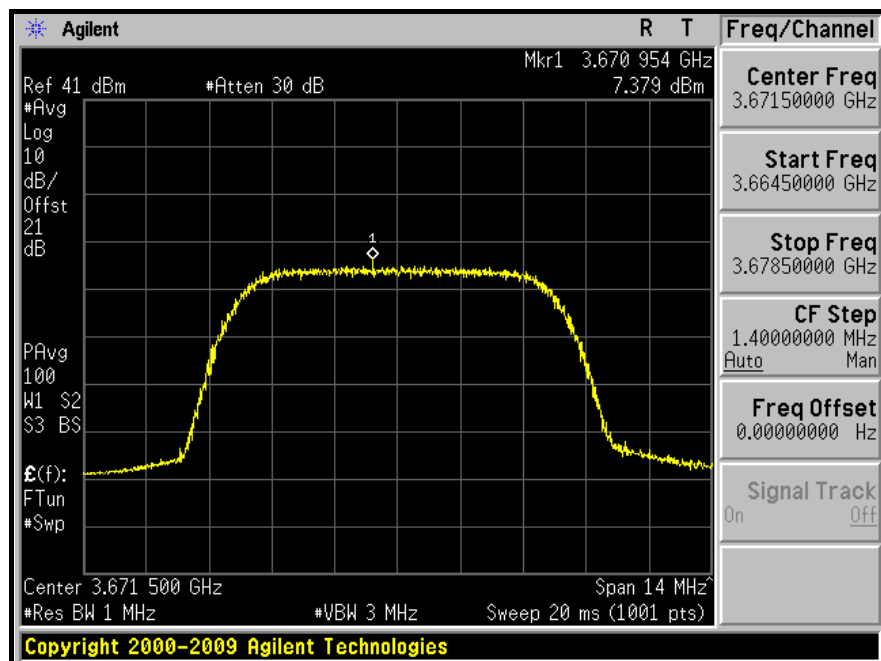
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



DETECTOR FUNCTION	Average	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	B1		

EIRP POWER						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	EIRP (dBm)	EIRP (W)	Limit (W)
Low	3655.00	14.00	22.00	36.00	3.981	10.00
Middle	3662.50	13.67	22.00	35.67	3.690	10.00
High	3670.00	13.27	22.00	35.27	3.365	10.00

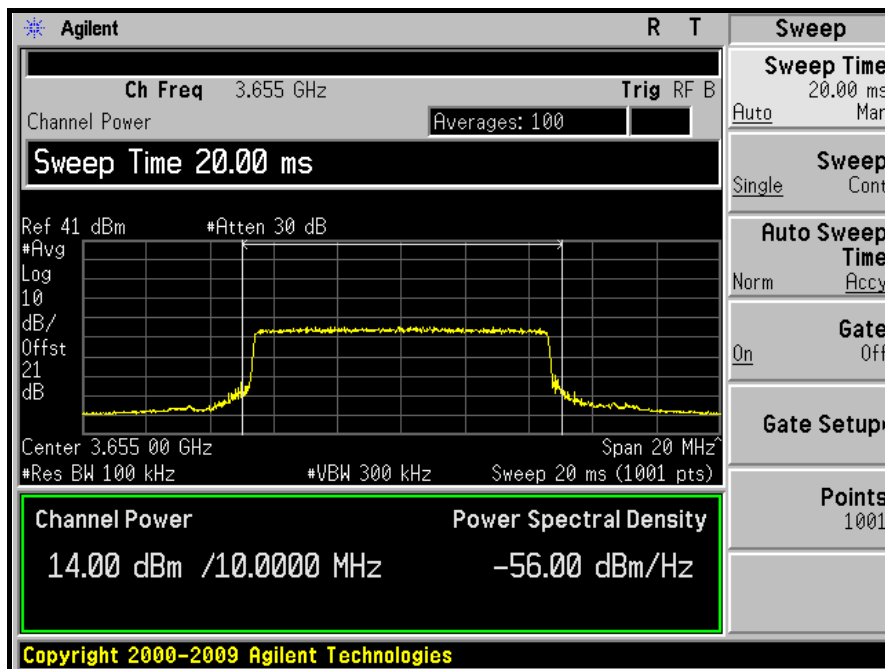
NOTE: EIRP = Conducted power + Antenna Gain

EIRP PEAK DENSITY						
CHANNEL	FREQUENCY (MHz)	CONDUCTED POWER DENSITY (dBm/MHz)	ANTENNA GAIN (dBi)	EIRP PEAK DENSITY (dBm/MHz)	EIRP PEAK DENSITY (W/MHz)	Limit (W/MHz)
Low	3655.00	7.025	22.00	29.03	0.799	1.00
Middle	3662.50	7.135	22.00	29.14	0.819	1.00
High	3670.00	7.295	22.00	29.30	0.850	1.00

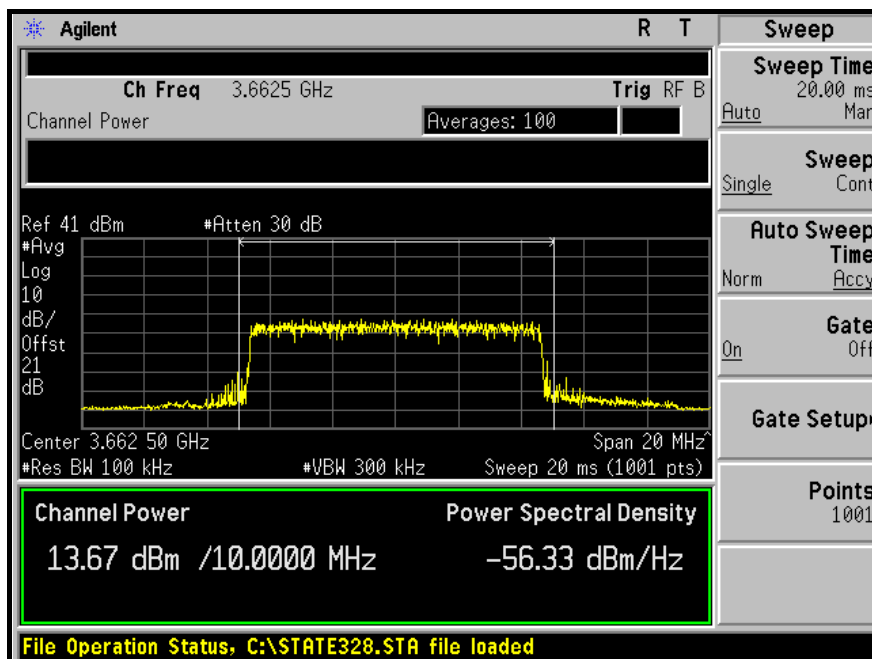
NOTE: EIRP density = Conducted power density + Antenna Gain

OUTPUT POWER

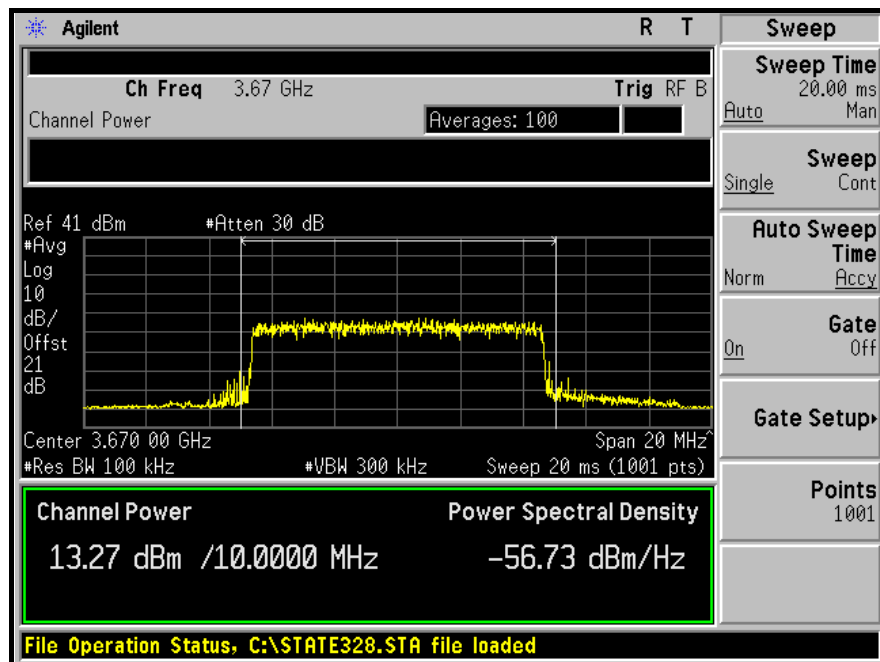
LOW CHANNEL



MIDDLE CHANNEL

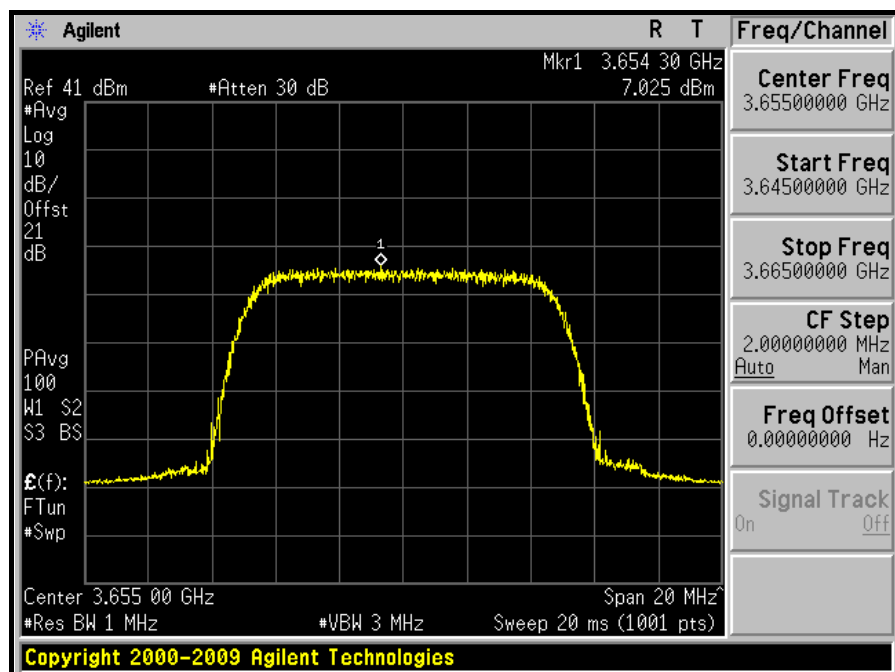


HIGH CHANNEL

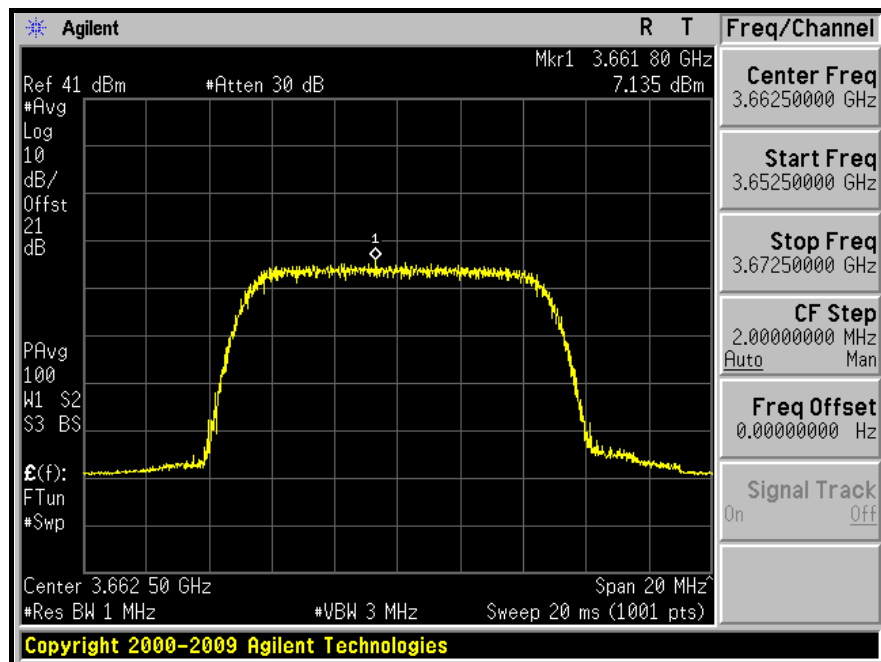


POWER DENSITY

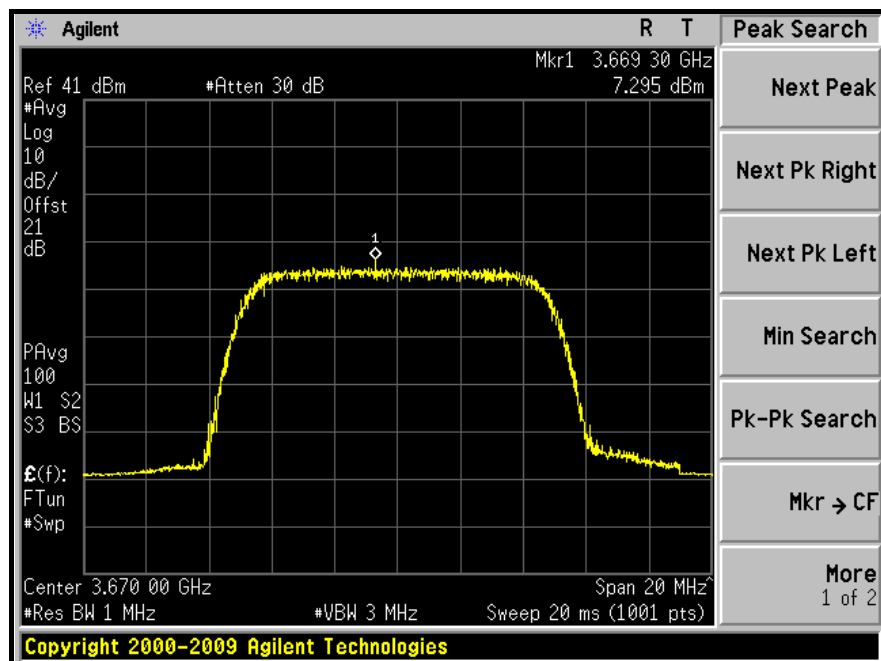
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



4.2 FREQUENCY STABILITY MEASUREMENT

4.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

According to the FCC part 2.1055 shall be tested the frequency stability. The rule is defined that "The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block." The test extreme voltage is according to the 2.1055(d)(1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment and the extreme temperature rule is comply with specification of EUT $-40^{\circ}\text{C} \sim 70^{\circ}\text{C}$.

4.2.2 TEST INSTRUMENTS

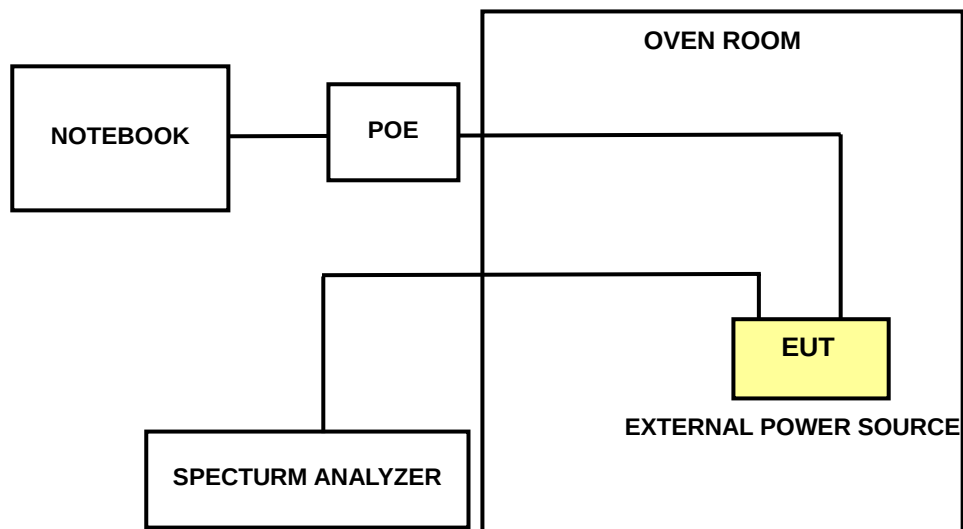
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY44360128	Feb. 23, 2010	Feb. 22, 2011
RF cable	SUCOFLEX 104	257029	Sep. 12, 2009	Sep. 11, 2010
WIT Standard Temperature & Humidity Chamber	TH-4S-C	W981030	Jun. 28, 2010	Jun. 27, 2011

NOTE: The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

4.2.3 TEST PROCEDURE

- Power must be removed when changing from one temperature to another or one voltage to another voltage. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- EUT is connected the external power supply to control the AC input power. The various Volts from the minimum 93.5 Volts to 126.5 Volts. Each step shall be record the frequency error rate.
- The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the $\pm 0.5^{\circ}\text{C}$ during the measurement testing.
- The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

4.2.4 TEST SETUP



4.2.5 EUT OPERATING CONDITIONS

The EUT connected to the notebook. Use software to control the EUT channel and transmit a single tone.

4.2.6 TEST RESULTS

CHANNEL BANDWIDTH	3.5MHz	TEST MODE	A1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3673.251068	0.291
20	110.0	3673.250892	0.243
20	126.5	3673.251136	0.309
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3673.252305	0.628
60	110.0	3673.251127	0.307
50	110.0	3673.251572	0.428
40	110.0	3673.250747	0.203
30	110.0	3673.251759	0.479
20	110.0	3673.250892	0.243
10	110.0	3673.251967	0.535
0	110.0	3673.251035	0.282
-10	110.0	3673.251130	0.308
-20	110.0	3673.251381	0.376
-30	110.0	3673.251997	0.544
-40	110.0	3673.251633	0.445
CARRIER FREQUENCY: 3673.25MHz			



A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	A1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3672.501044	0.284
20	110.0	3672.501022	0.278
20	126.5	3672.500964	0.262
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3672.502135	0.581
60	110.0	3672.501404	0.382
50	110.0	3672.501779	0.484
40	110.0	3672.500572	0.156
30	110.0	3672.501719	0.468
20	110.0	3672.501022	0.278
10	110.0	3672.501851	0.504
0	110.0	3672.501225	0.334
-10	110.0	3672.501268	0.345
-20	110.0	3672.501615	0.440
-30	110.0	3672.502100	0.572
-40	110.0	3672.501464	0.399
CARRIER FREQUENCY: 3672.50MHz			



A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	A1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3671.501734	0.472
20	110.0	3671.501473	0.401
20	126.5	3671.501487	0.405
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3671.502387	0.650
60	110.0	3671.501502	0.409
50	110.0	3671.501960	0.534
40	110.0	3671.500372	0.101
30	110.0	3671.502097	0.571
20	110.0	3671.501473	0.401
10	110.0	3671.502160	0.588
0	110.0	3671.501327	0.361
-10	110.0	3671.501052	0.287
-20	110.0	3671.501438	0.392
-30	110.0	3671.501973	0.537
-40	110.0	3671.501545	0.421
CARRIER FREQUENCY: 3671.50MHz			



A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	A1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3655.001938	0.530
20	110.0	3655.001922	0.526
20	126.5	3655.002347	0.642
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3655.002568	0.703
60	110.0	3655.001390	0.380
50	110.0	3655.001865	0.510
40	110.0	3655.000585	0.160
30	110.0	3655.002445	0.669
20	110.0	3655.001922	0.526
10	110.0	3655.002211	0.605
0	110.0	3655.001618	0.443
-10	110.0	3655.000905	0.248
-20	110.0	3655.001512	0.414
-30	110.0	3655.002245	0.614
-40	110.0	3655.002040	0.558
CARRIER FREQUENCY: 3655.00MHz			



A D T

CHANNEL BANDWIDTH	3.5MHz	TEST MODE	B1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3673.251201	0.327
20	110.0	3673.250974	0.265
20	126.5	3673.250703	0.191
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3673.252459	0.669
60	110.0	3673.251511	0.411
50	110.0	3673.251648	0.449
40	110.0	3673.251117	0.304
30	110.0	3673.252285	0.622
20	110.0	3673.250974	0.265
10	110.0	3673.252140	0.583
0	110.0	3673.251315	0.358
-10	110.0	3673.251426	0.388
-20	110.0	3673.251820	0.495
-30	110.0	3673.251975	0.538
-40	110.0	3673.251946	0.530
CARRIER FREQUENCY: 3673.25MHz			



A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	B1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3672.501153	0.314
20	110.0	3672.501082	0.295
20	126.5	3672.500908	0.247
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3672.502658	0.724
60	110.0	3672.501651	0.450
50	110.0	3672.502052	0.559
40	110.0	3672.501263	0.344
30	110.0	3672.502148	0.585
20	110.0	3672.501082	0.295
10	110.0	3672.502054	0.559
0	110.0	3672.501420	0.387
-10	110.0	3672.501355	0.369
-20	110.0	3672.502003	0.545
-30	110.0	3672.501759	0.479
-40	110.0	3672.501827	0.497
CARRIER FREQUENCY: 3672.50MHz			



A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	B1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3653.501569	0.429
20	110.0	3653.501417	0.388
20	126.5	3653.501590	0.435
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3653.502887	0.790
60	110.0	3653.501738	0.476
50	110.0	3653.502025	0.554
40	110.0	3653.501521	0.416
30	110.0	3653.502156	0.590
20	110.0	3653.501417	0.388
10	110.0	3653.502115	0.579
0	110.0	3653.501442	0.395
-10	110.0	3653.501484	0.406
-20	110.0	3653.502327	0.637
-30	110.0	3653.501807	0.495
-40	110.0	3653.502087	0.571
CARRIER FREQUENCY: 3653.50MHz			



A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	B1
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FREQUENCY STABILITY V.S. VOLTAGE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
20	93.5	3655.001311	0.359
20	110.0	3655.001375	0.376
20	126.5	3655.001643	0.450
FREQUENCY STABILITY V.S. TEMPERATURE			
TEMP. (°C)	VOL. (Volts)	FREQUENCY (MHz)	FREQUENCY ERROR (ppm)
70	110.0	3655.002868	0.785
60	110.0	3655.001588	0.434
50	110.0	3655.002044	0.559
40	110.0	3655.001573	0.430
30	110.0	3655.002018	0.552
20	110.0	3655.001375	0.376
10	110.0	3655.002006	0.549
0	110.0	3655.001758	0.481
-10	110.0	3655.001858	0.508
-20	110.0	3655.002824	0.773
-30	110.0	3655.001880	0.514
-40	110.0	3655.002492	0.682
CARRIER FREQUENCY: 3655.00MHz			

4.3 EMISSION BANDWIDTH MEASUREMENT

4.3.1 LIMITS OF EMISSION BANDWIDTH MEASUREMENT

According to FCC 90.1323 specified that emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26dB below the transmitter power.

4.3.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY44360128	Feb. 23, 2010	Feb. 22, 2011
RF cable	SUCOFLEX 104	257029	Sep. 12, 2009	Sep. 11, 2010
DC-6GHz 20dB 50W Fixed attenuator Woken	MDC9331N-20	0724	May 15, 2010	May 14, 2011

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.3.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 36kHz (3.5MHz bandwidth), 51kHz (5MHz bandwidth), 75kHz (7MHz bandwidth), 100kHz (10MHz bandwidth), VBW = 110kHz (3.5MHz bandwidth), 160kHz (5MHz bandwidth), 240kHz (7MHz bandwidth), 300kHz (10MHz bandwidth). The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.3.4 TEST SETUP

Same as 4.1.4

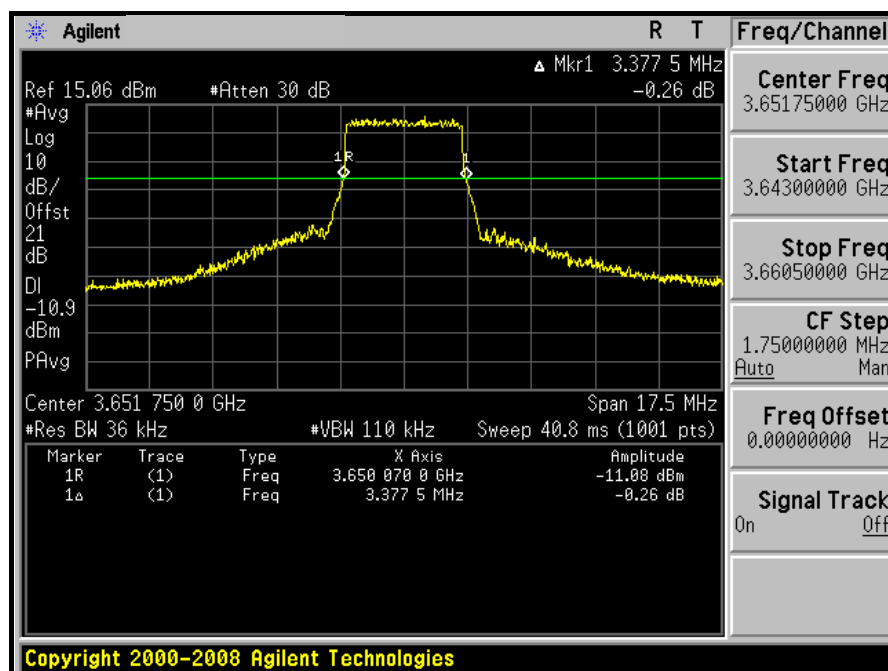
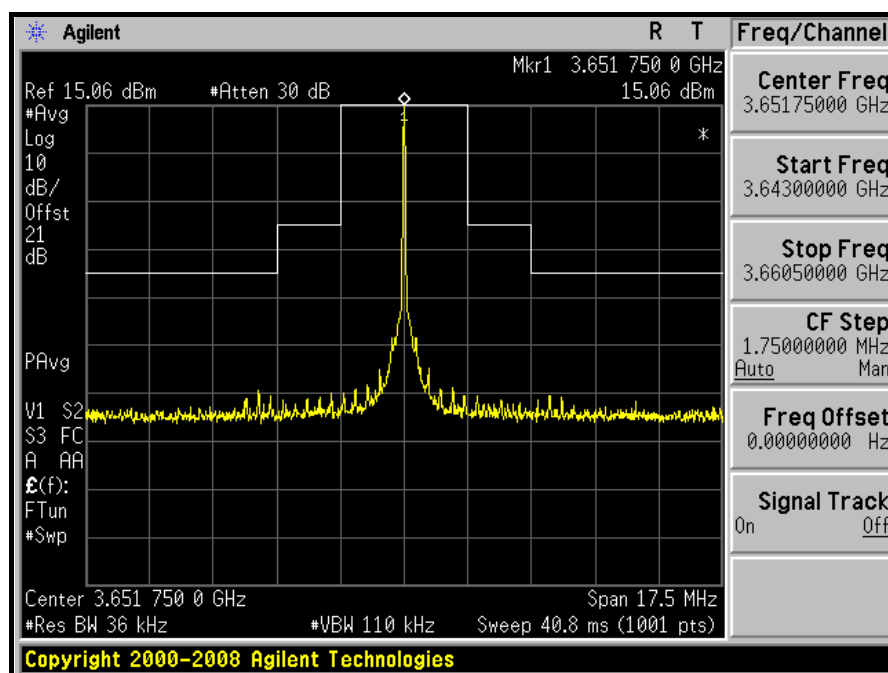
4.3.5 EUT OPERATING CONDITIONS

Same as 4.1.5

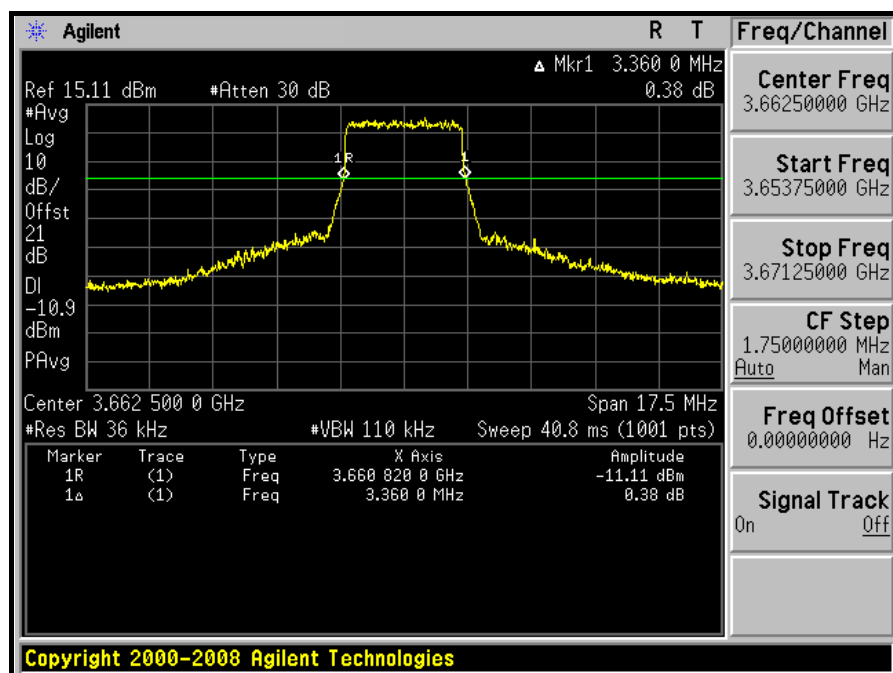
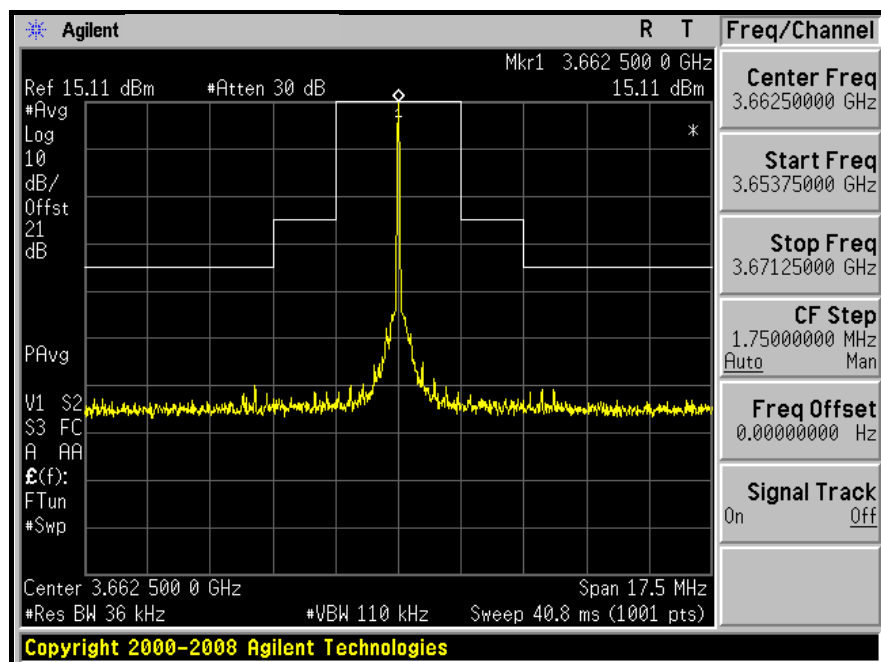
4.3.6 TEST RESULTS

TEST MODE: A1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
3.5MHz	Low	3.3775
	Middle	3.3600
	High	3.3780

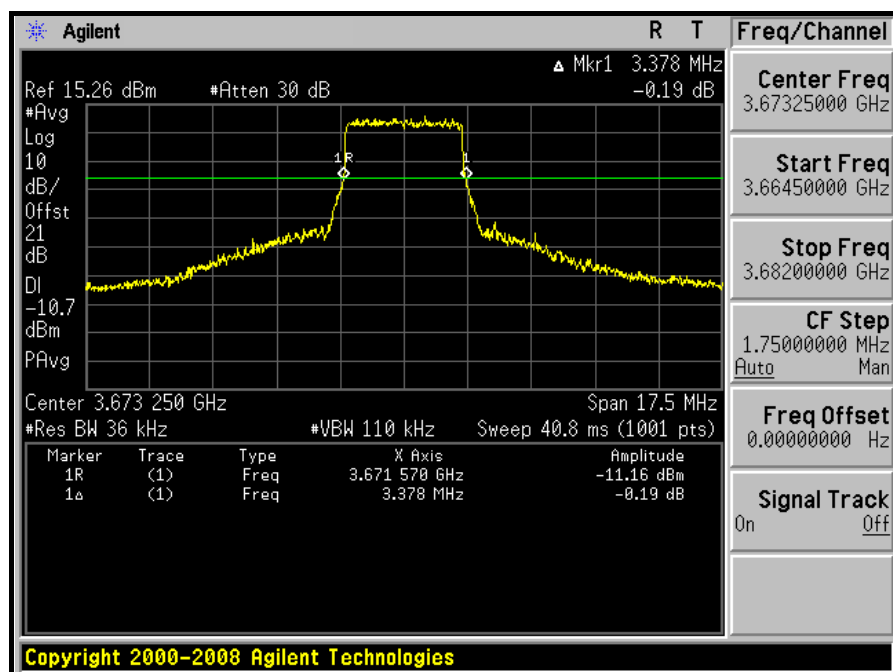
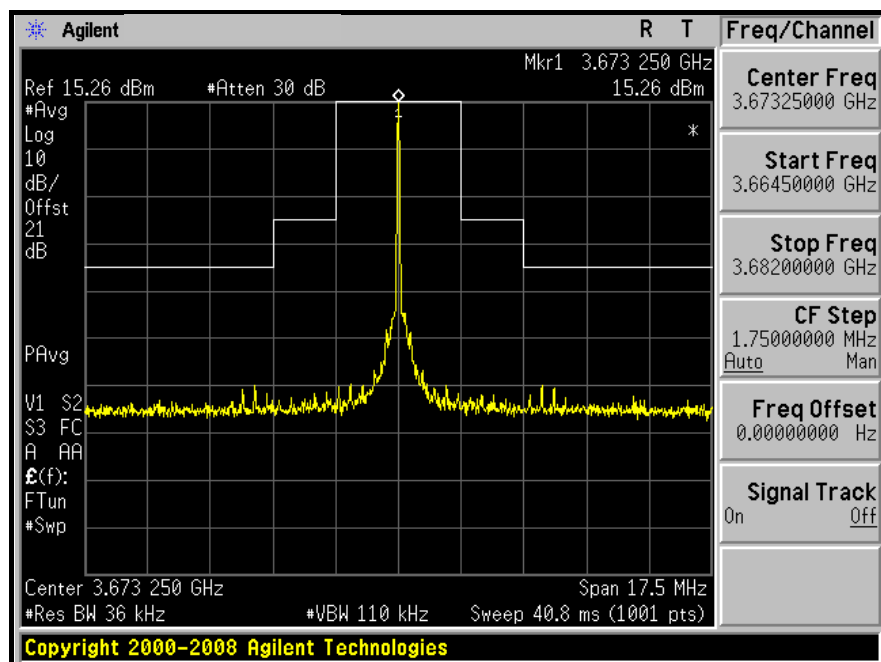
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

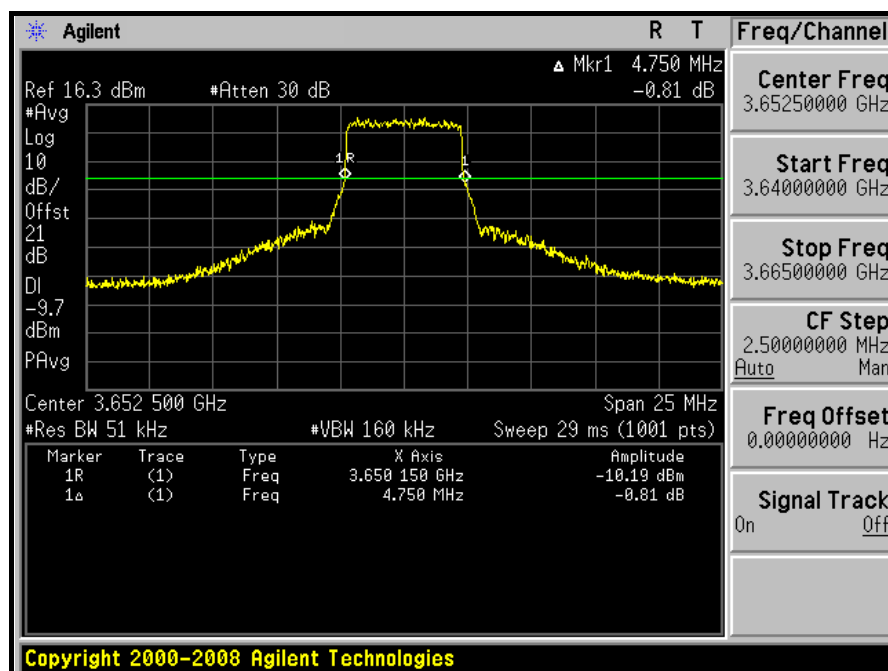
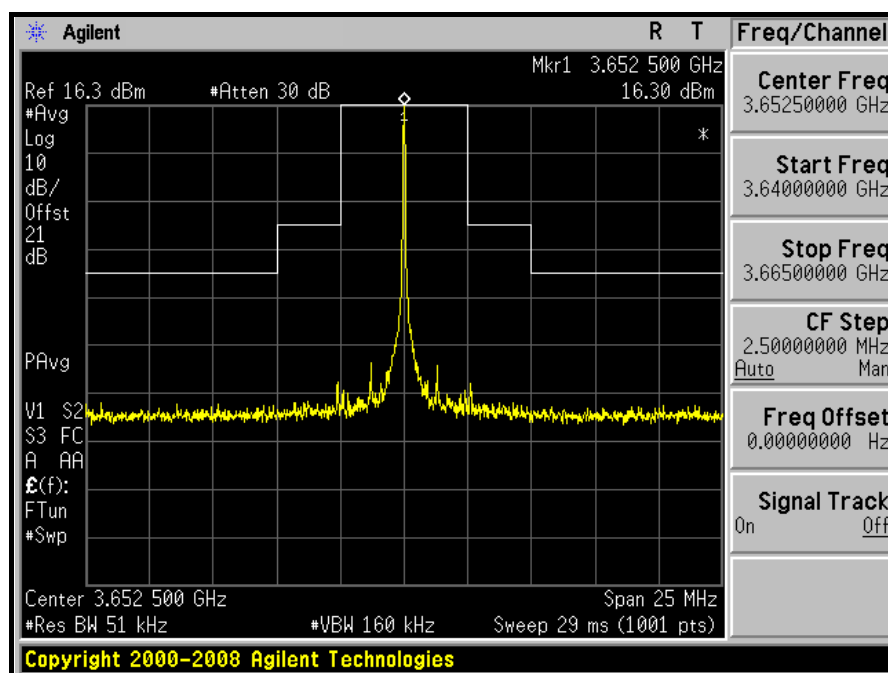




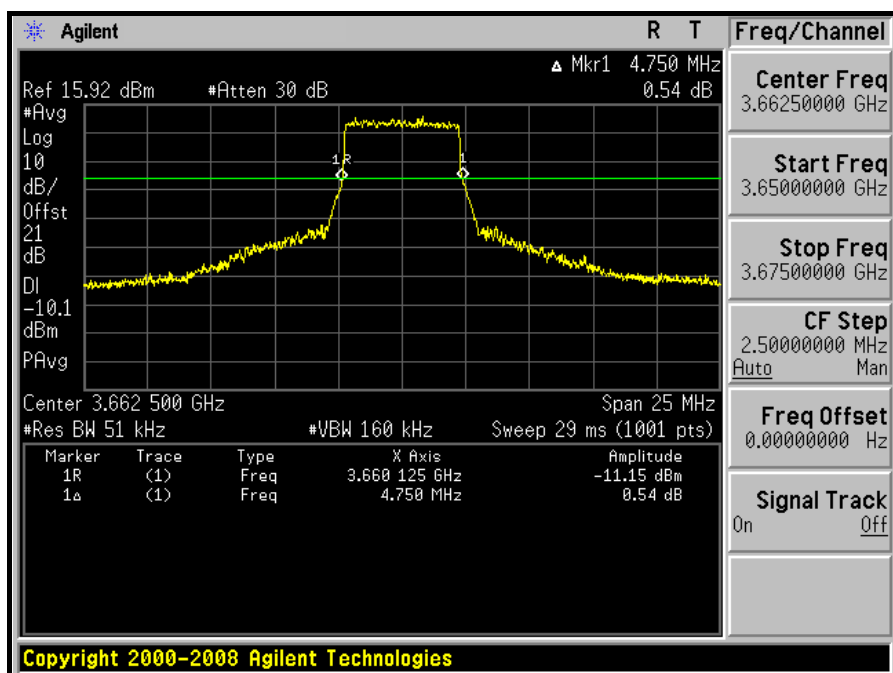
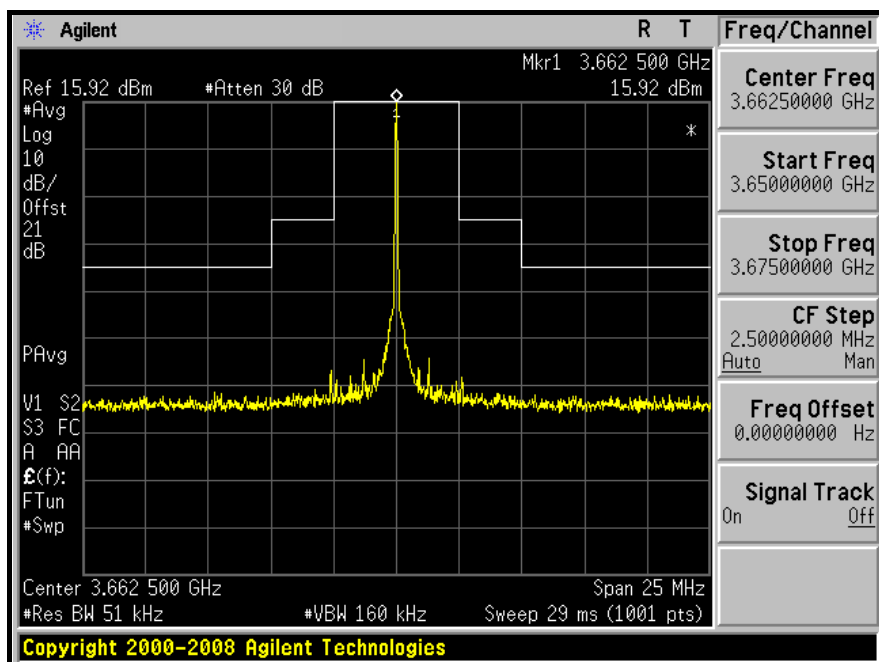
A D T

TEST MODE: A1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
5.0MHz	Low	4.750
	Middle	4.750
	High	4.750

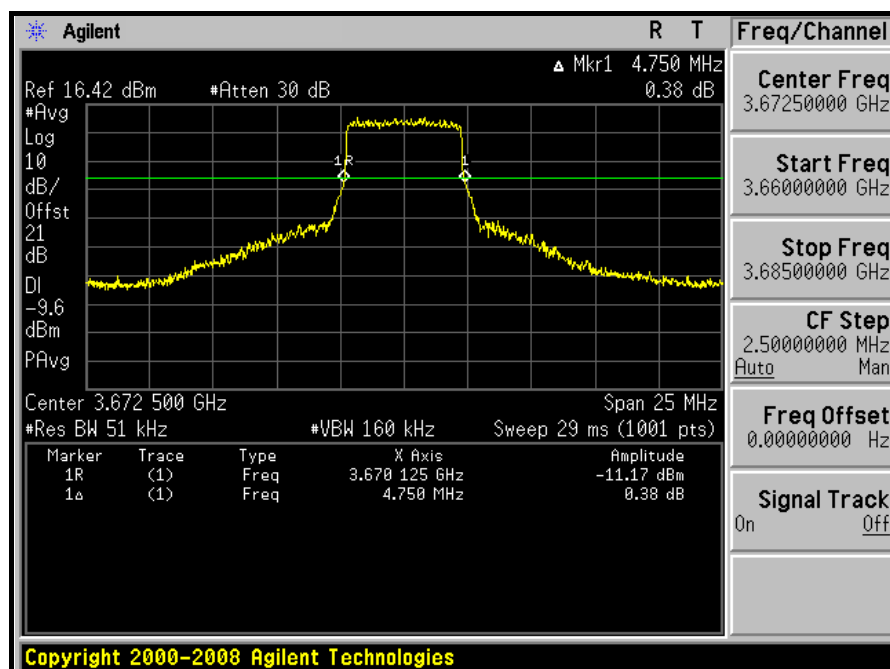
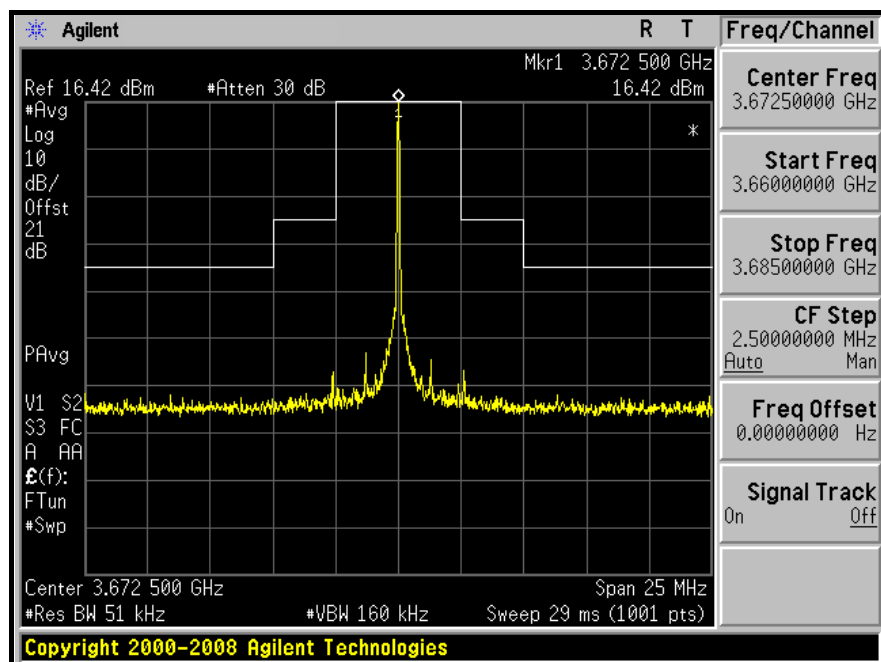
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

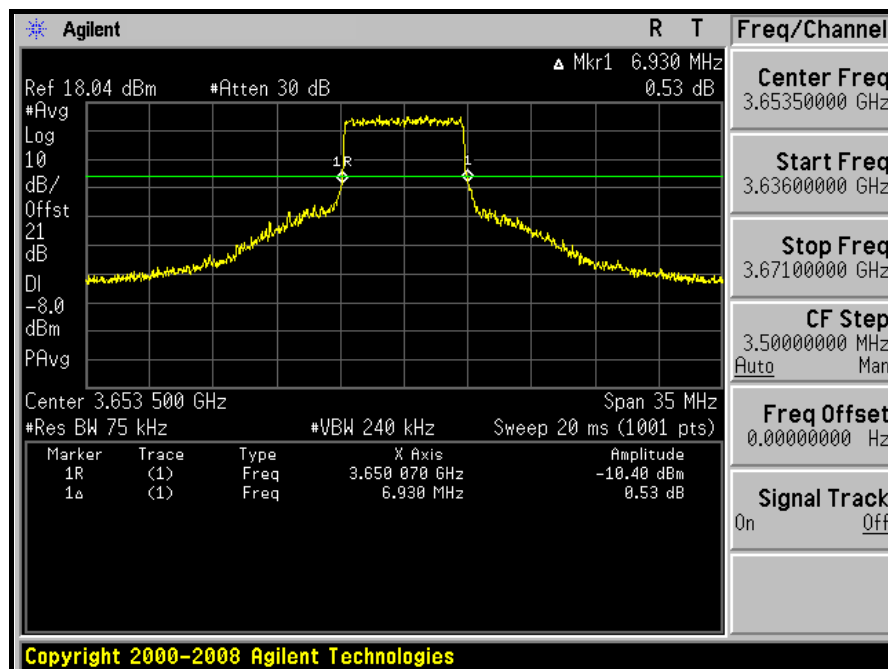
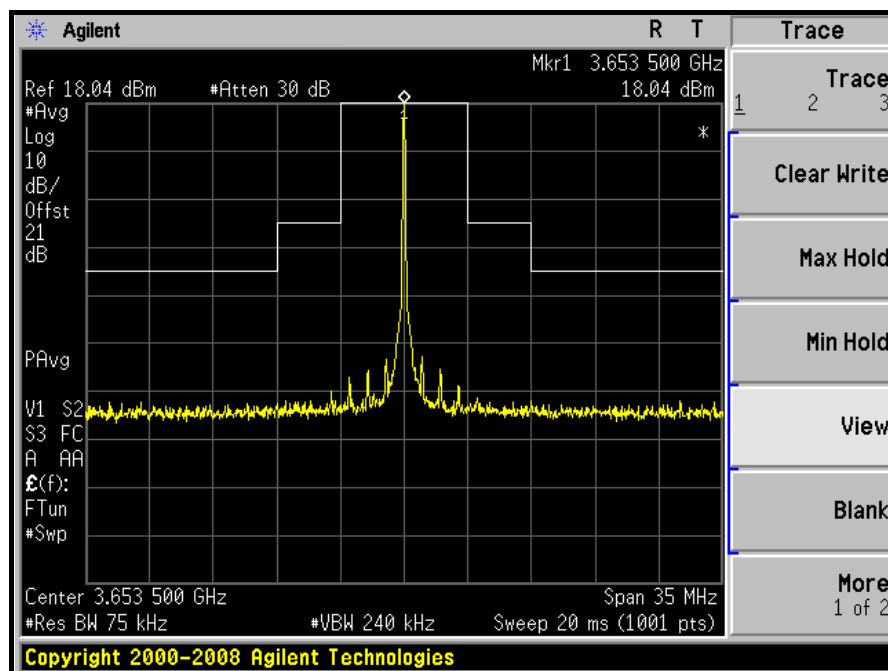




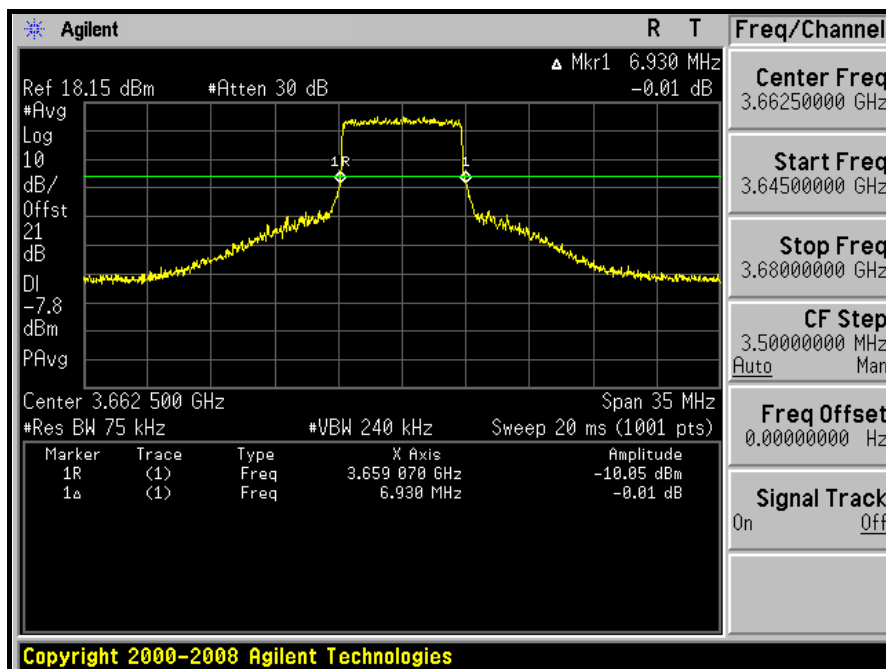
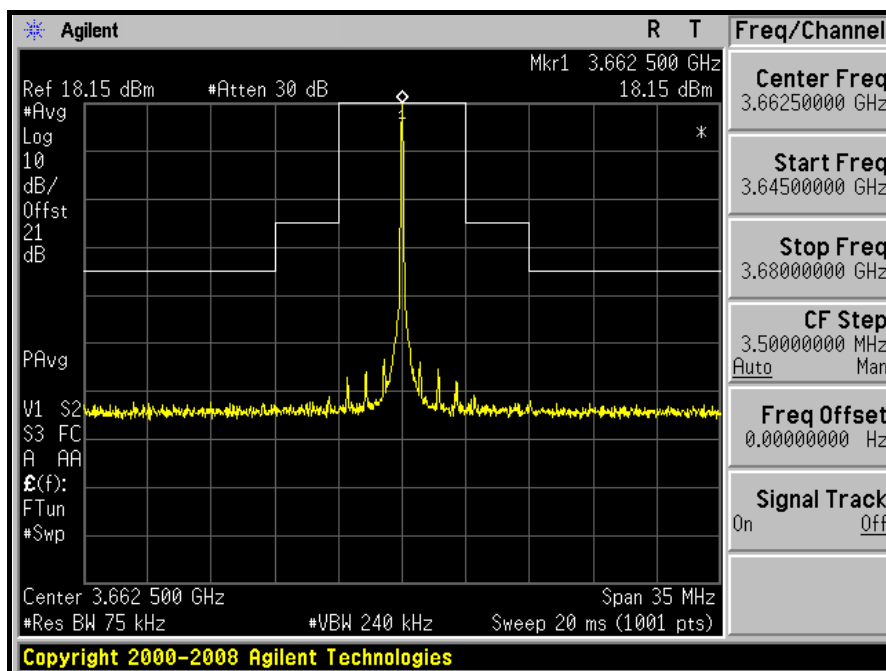
A D T

TEST MODE: A1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
7.0MHz	Low	6.930
	Middle	6.930
	High	6.930

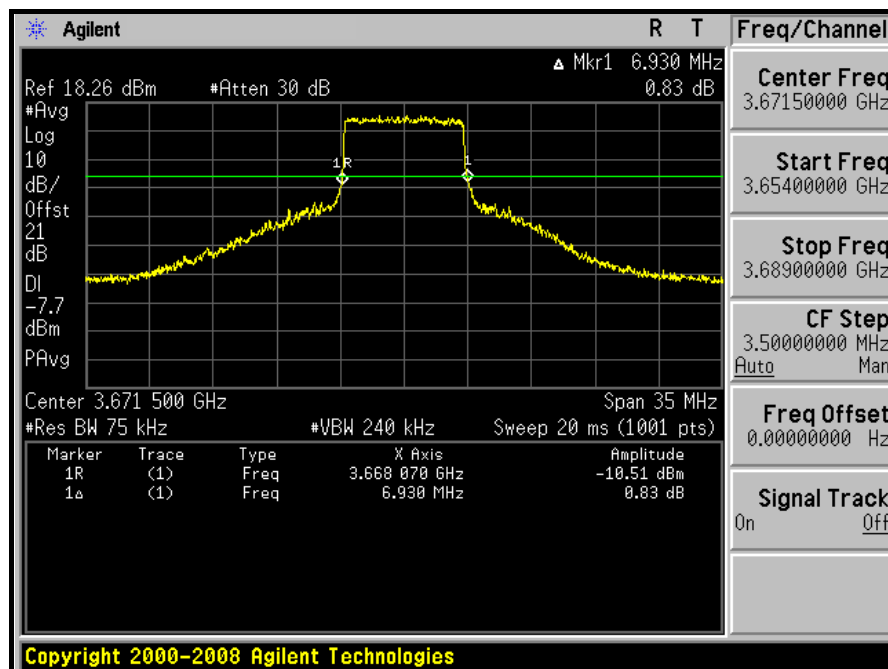
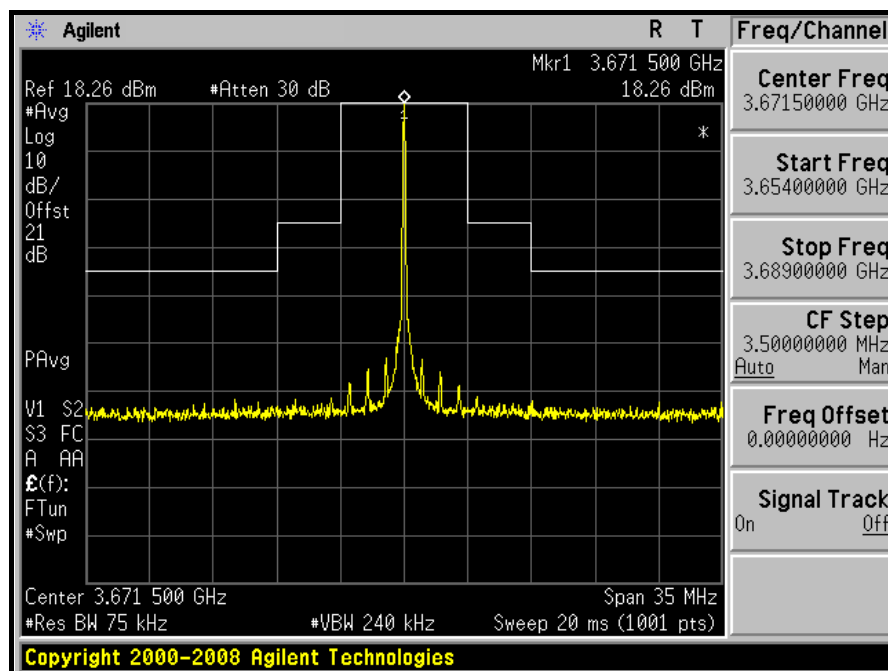
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

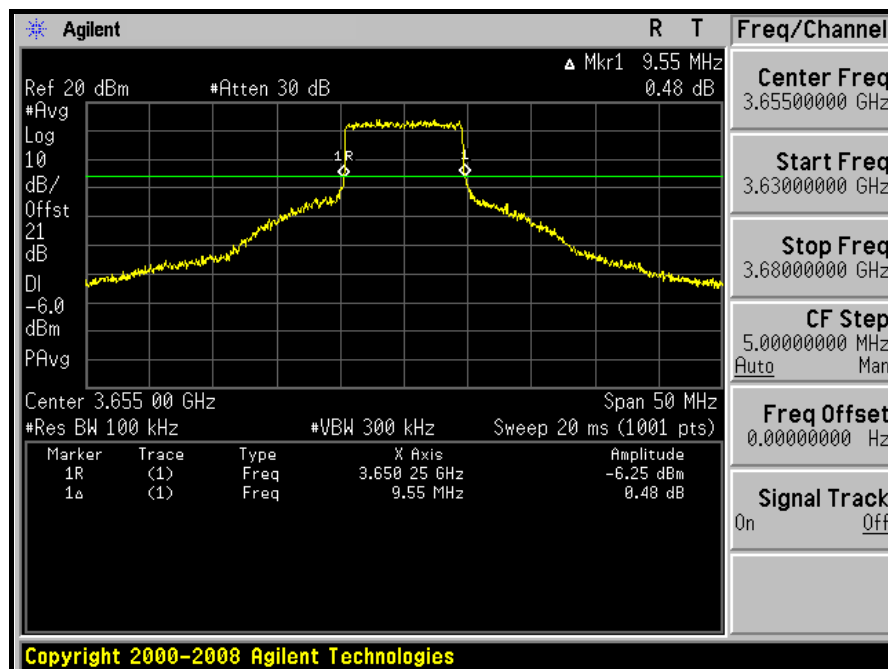
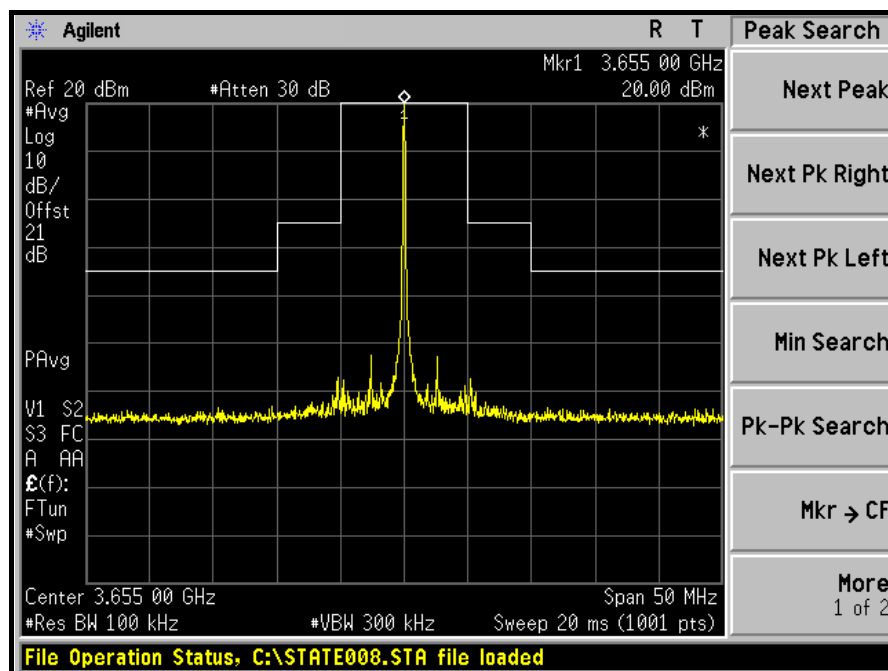




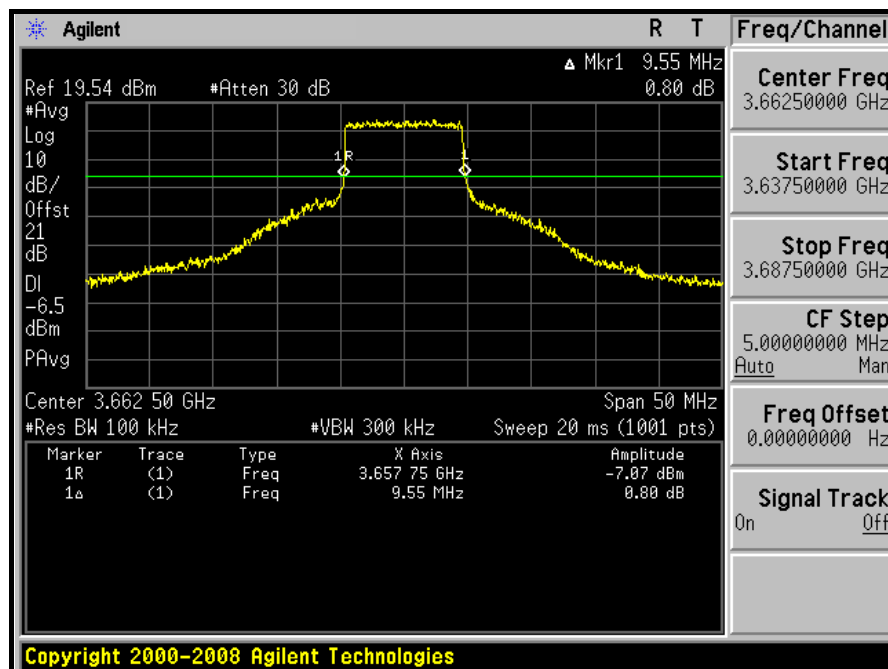
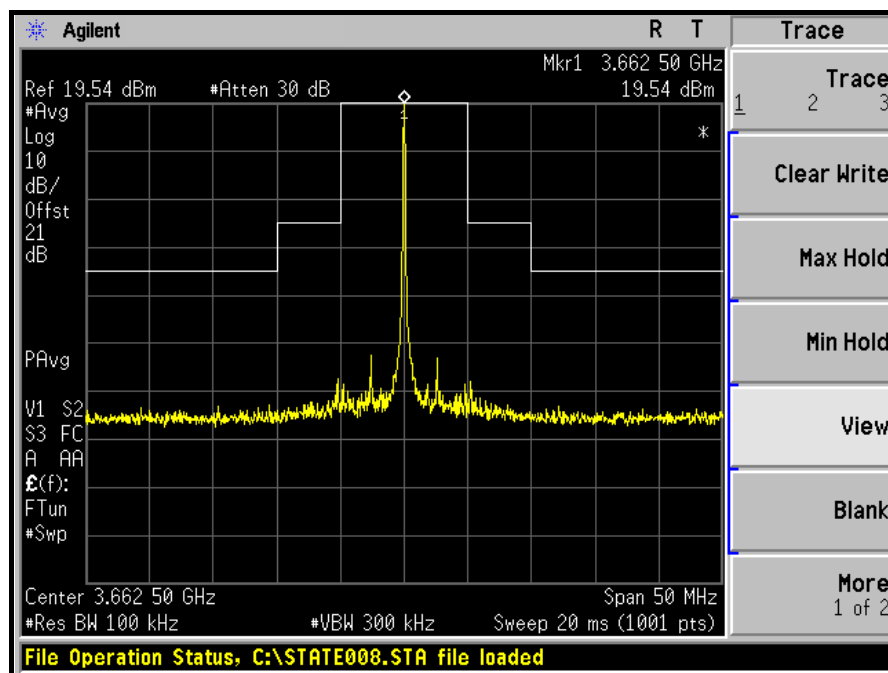
A D T

TEST MODE: A1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
10.0MHz	Low	9.550
	Middle	9.550
	High	9.550

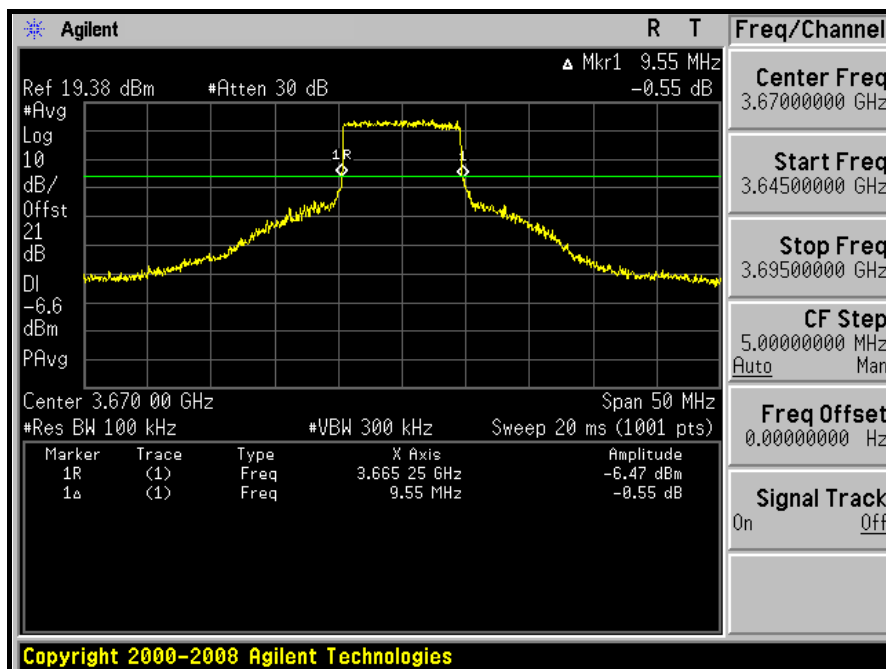
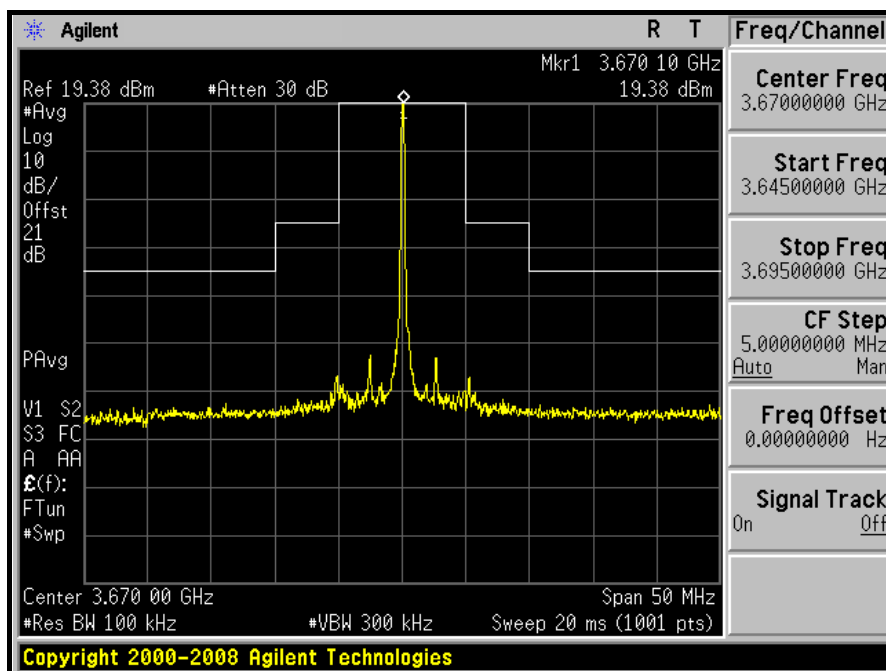
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

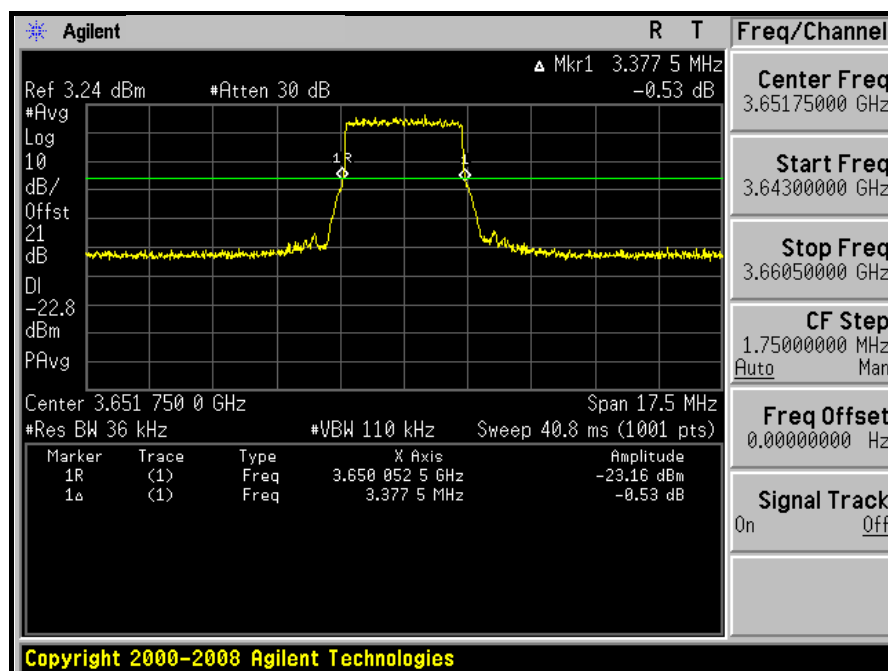
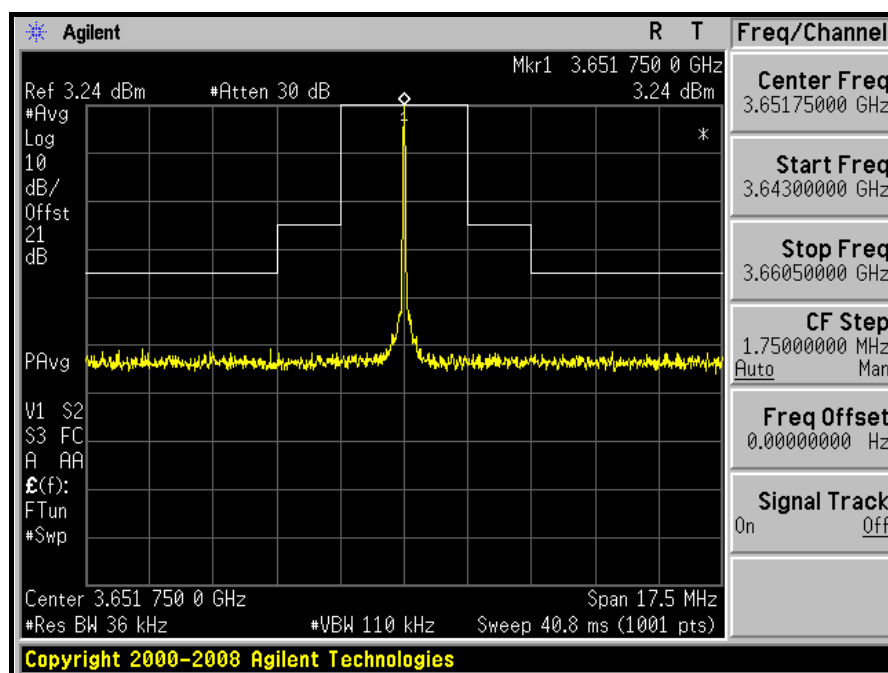




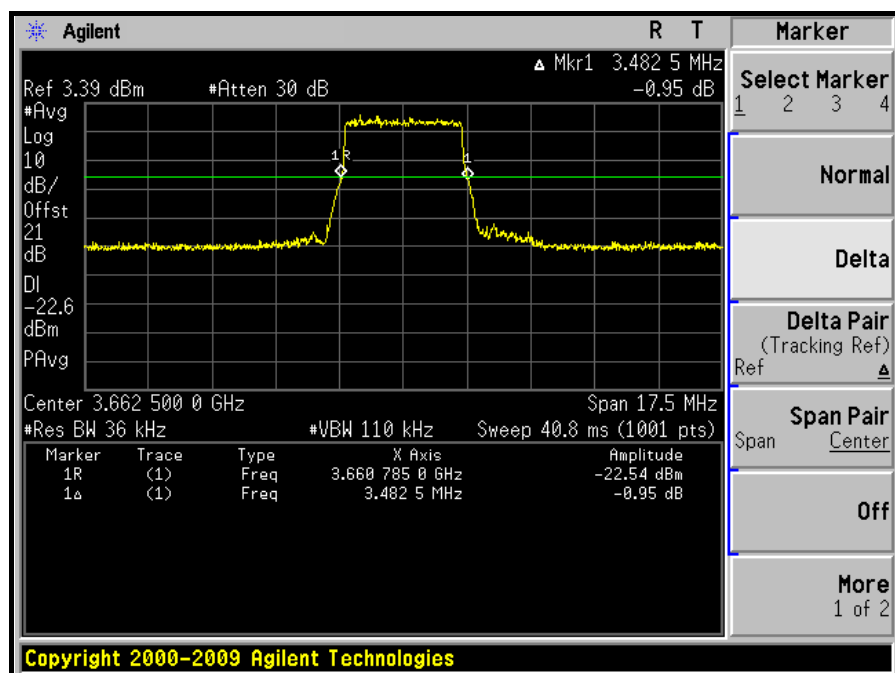
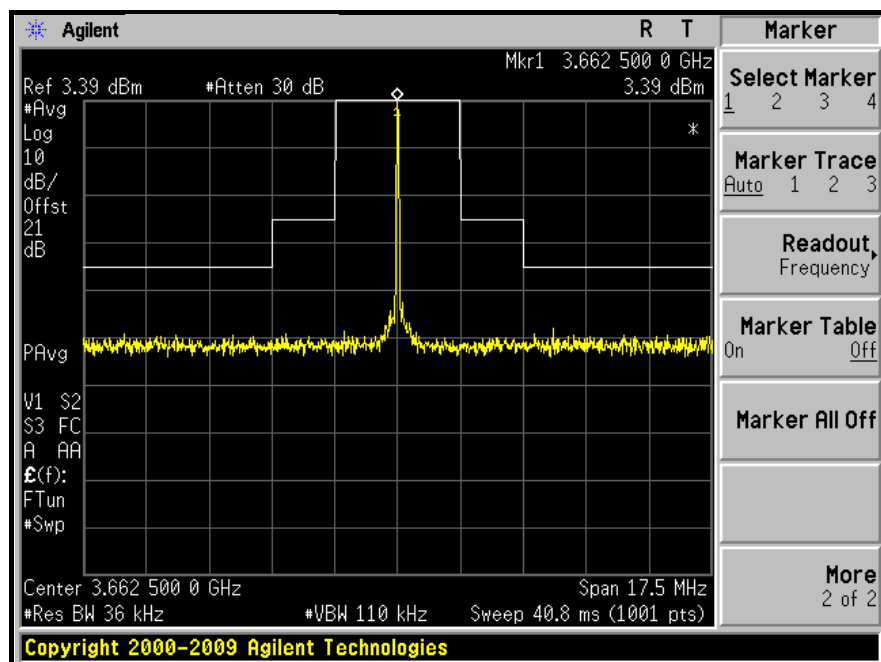
A D T

TEST MODE: B1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
3.5MHz	Low	3.3775
	Middle	3.4825
	High	3.4475

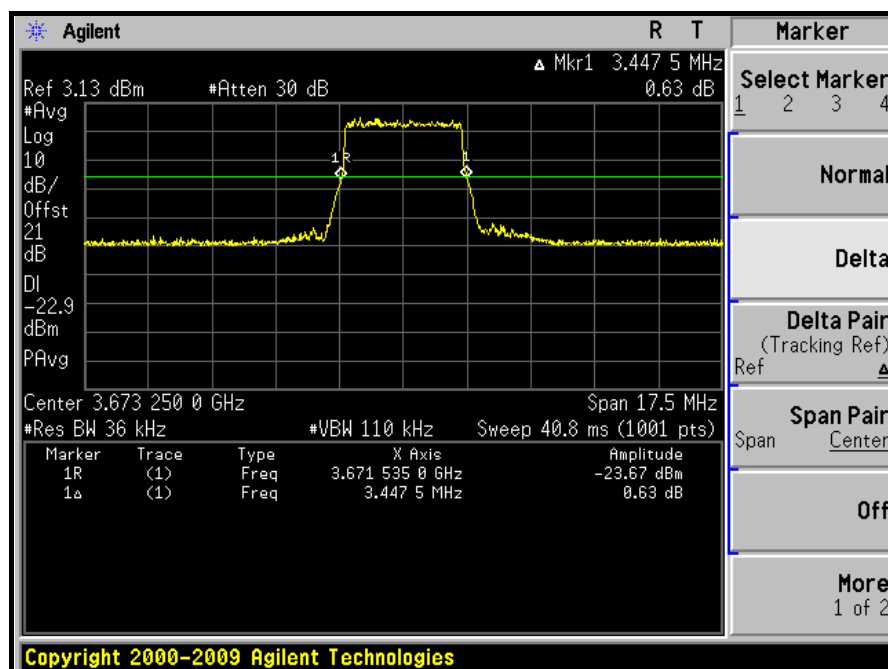
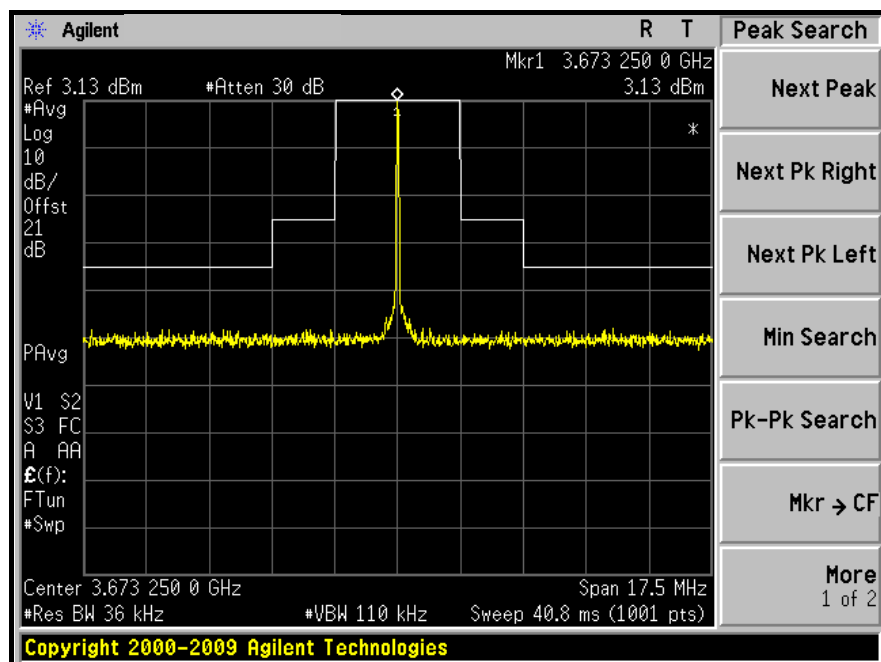
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

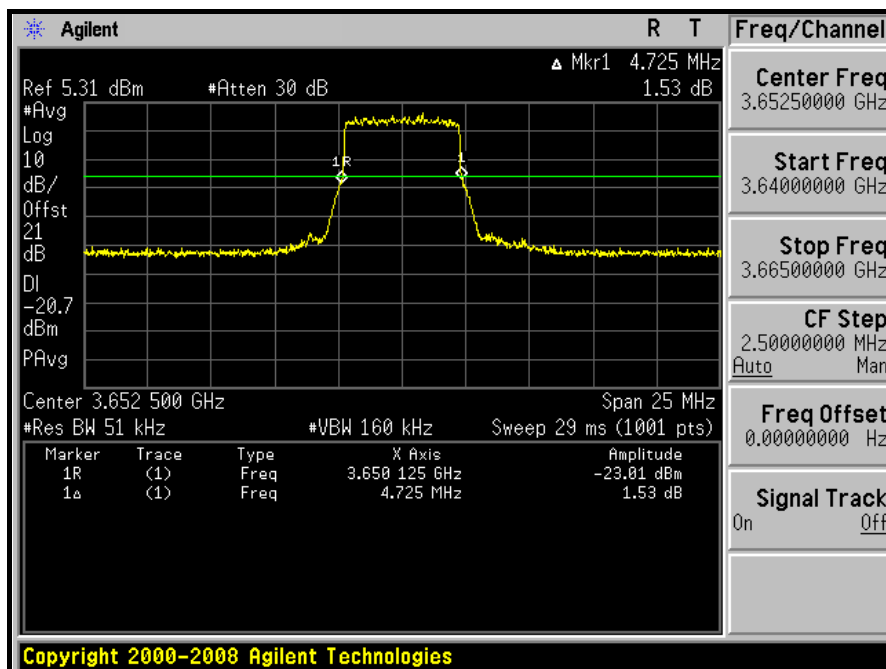
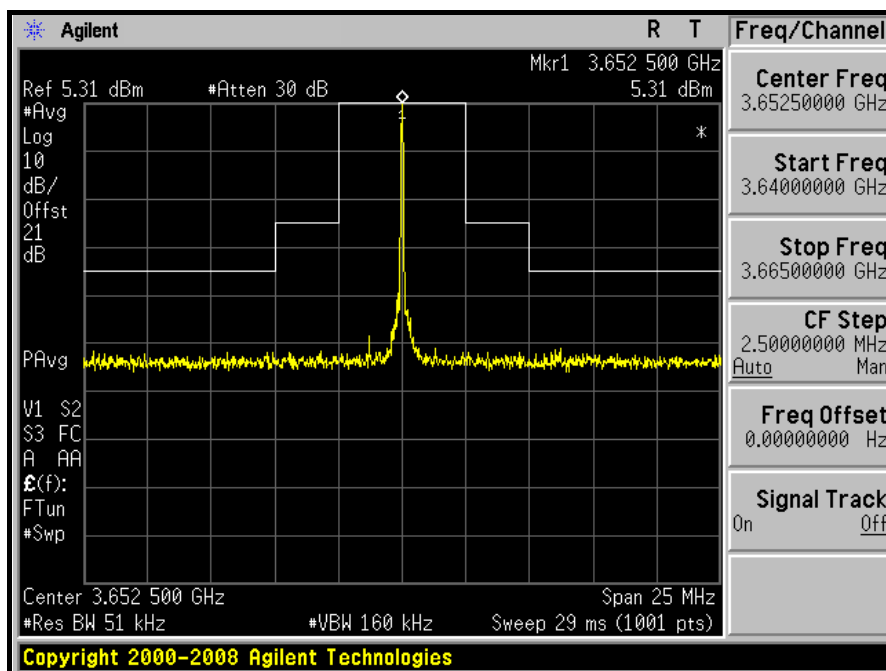




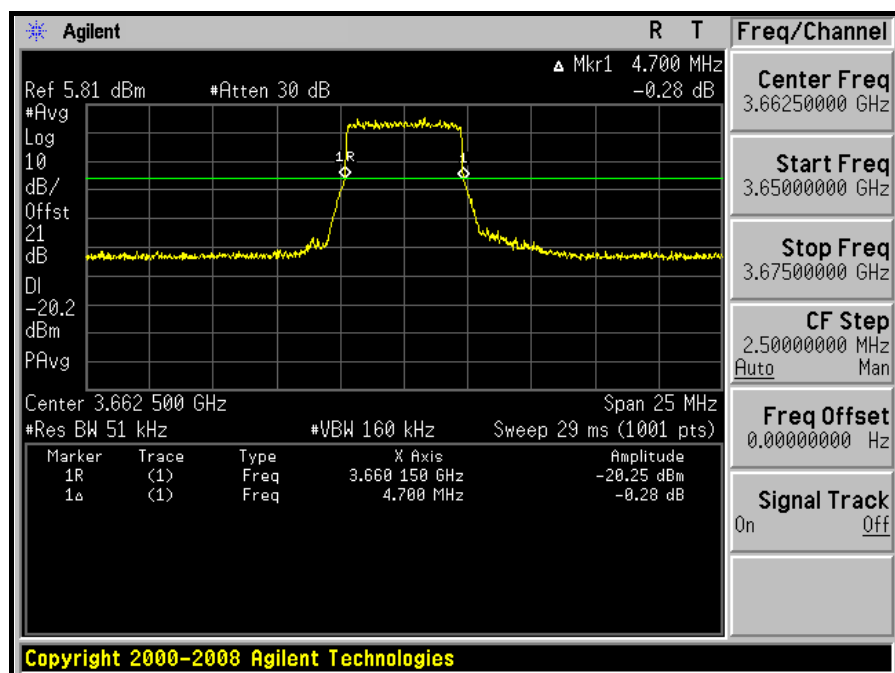
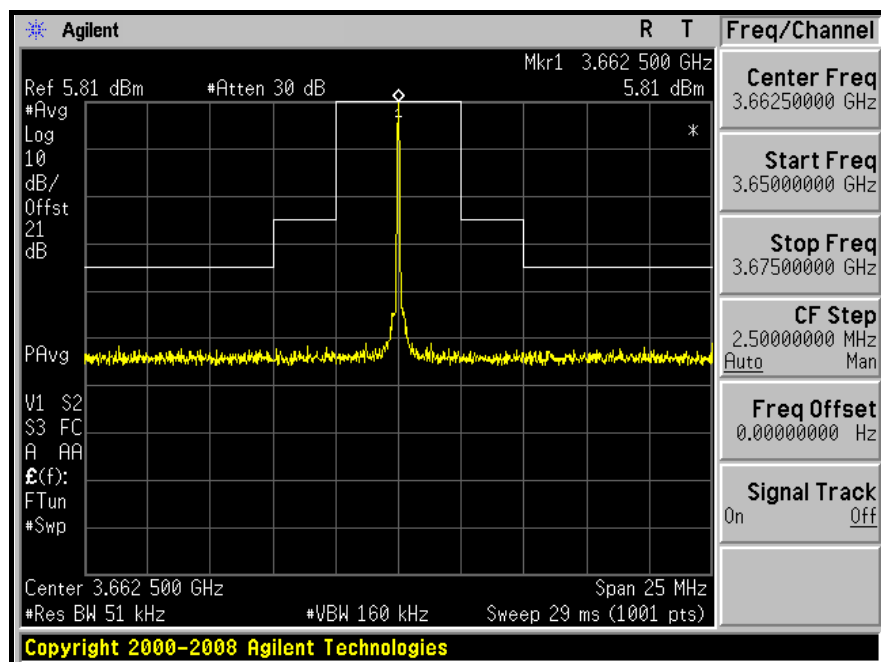
A D T

TEST MODE: B1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
5.0MHz	Low	4.725
	Middle	4.700
	High	4.750

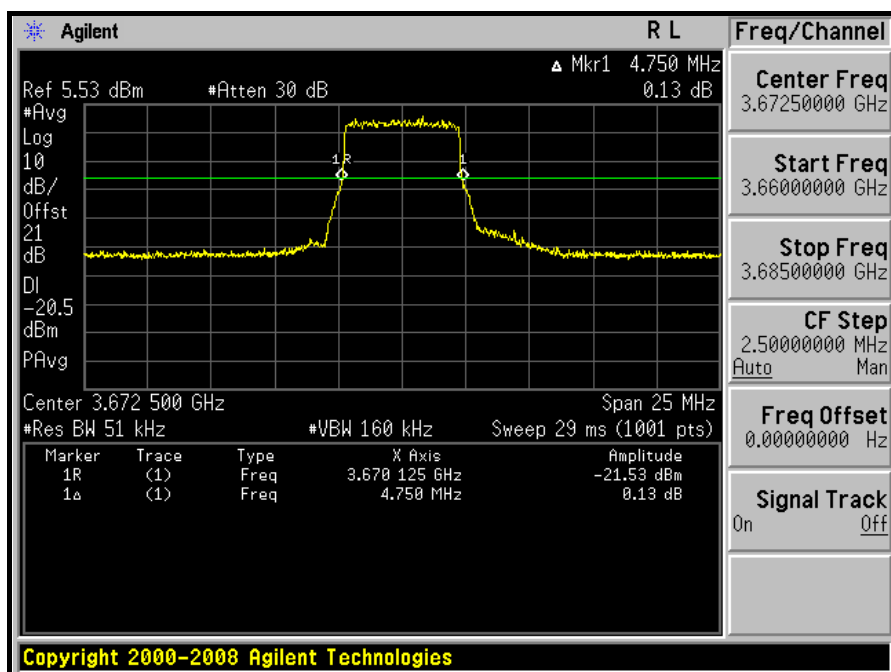
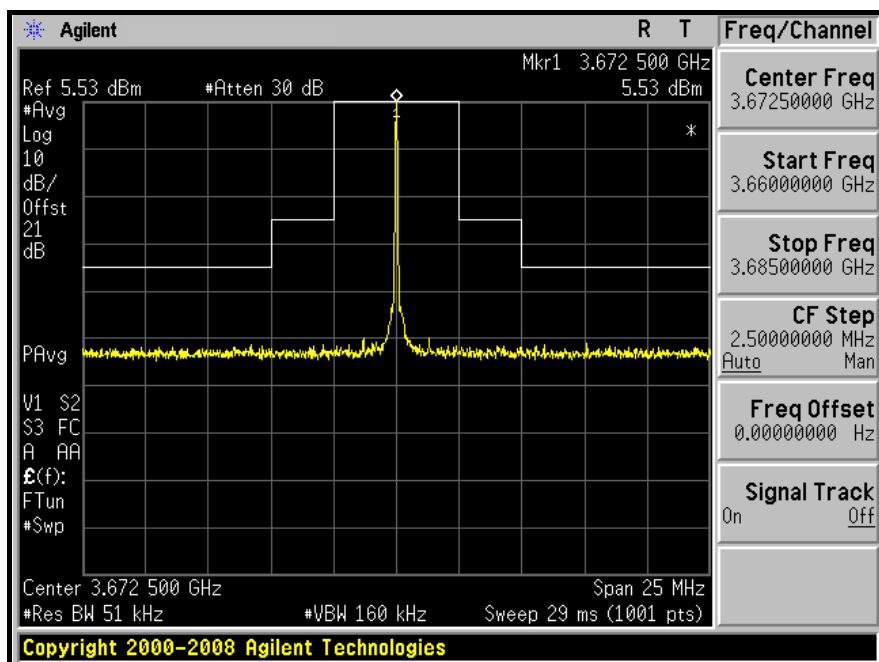
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

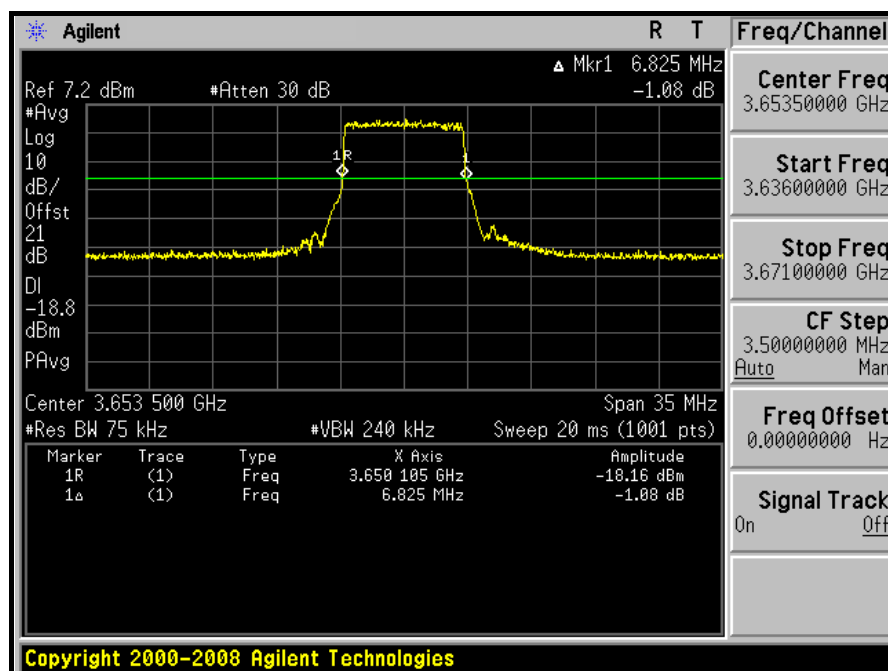
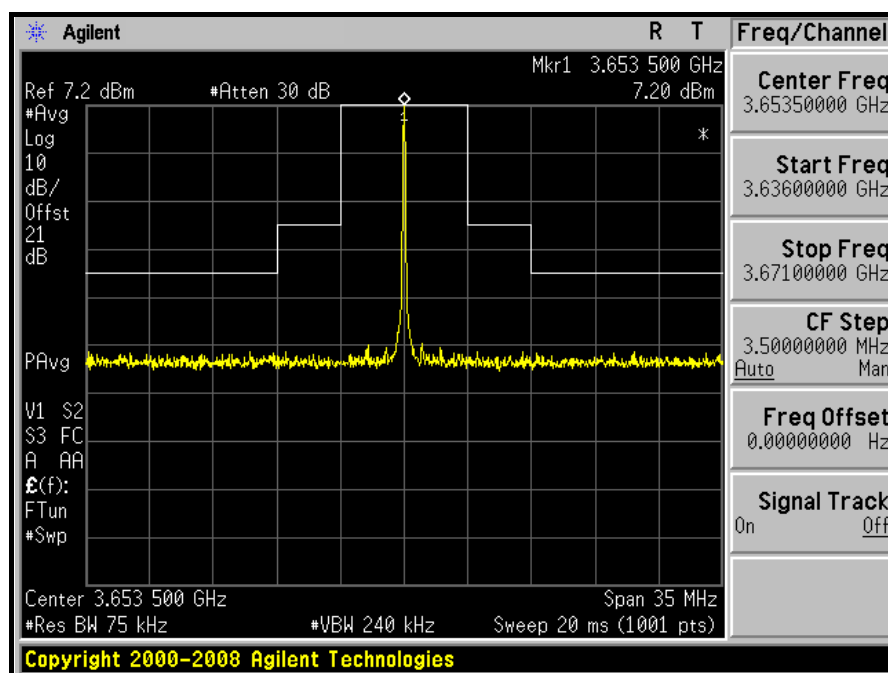




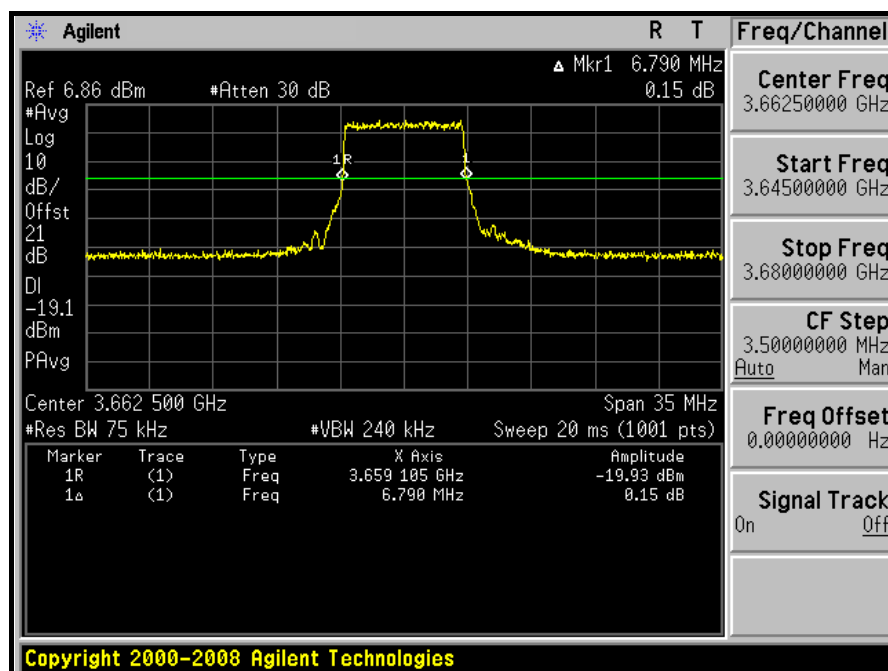
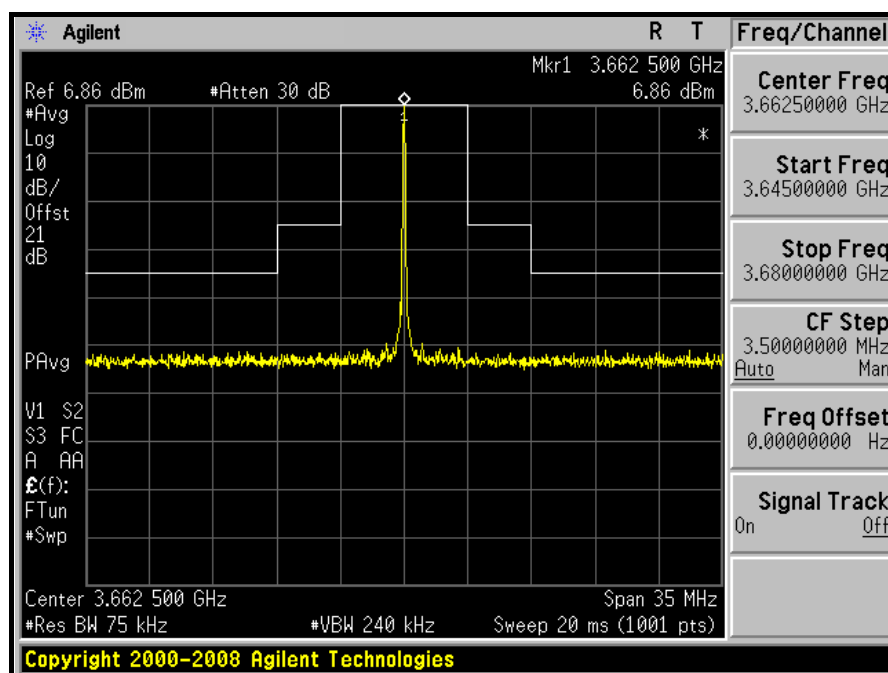
A D T

TEST MODE: B1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
7.0MHz	Low	6.825
	Middle	6.790
	High	6.860

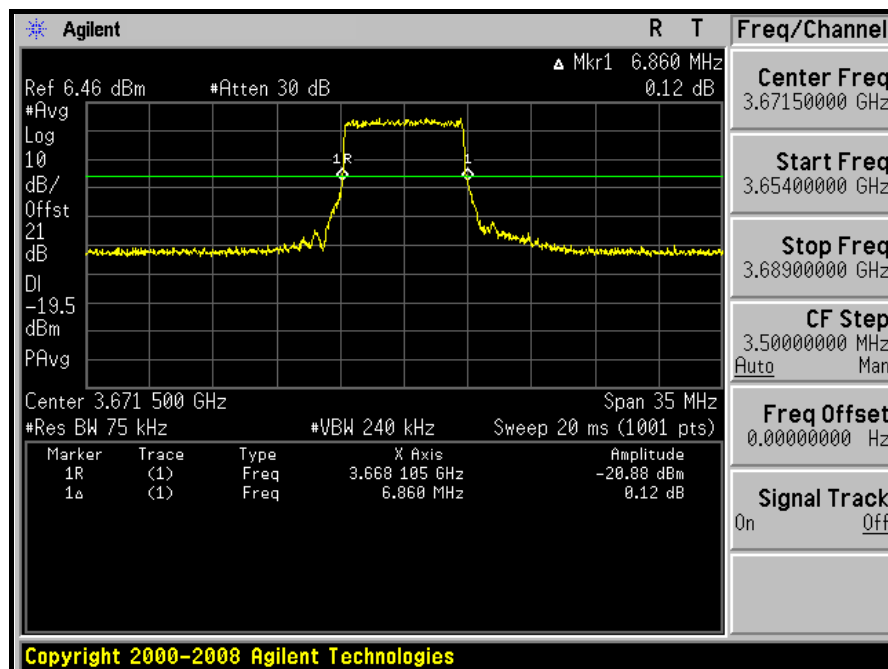
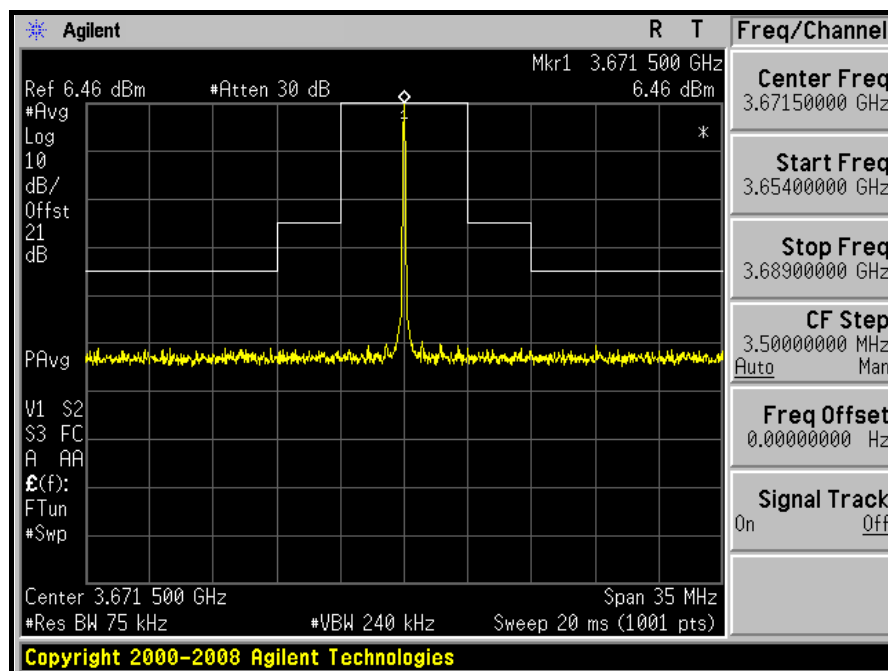
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL

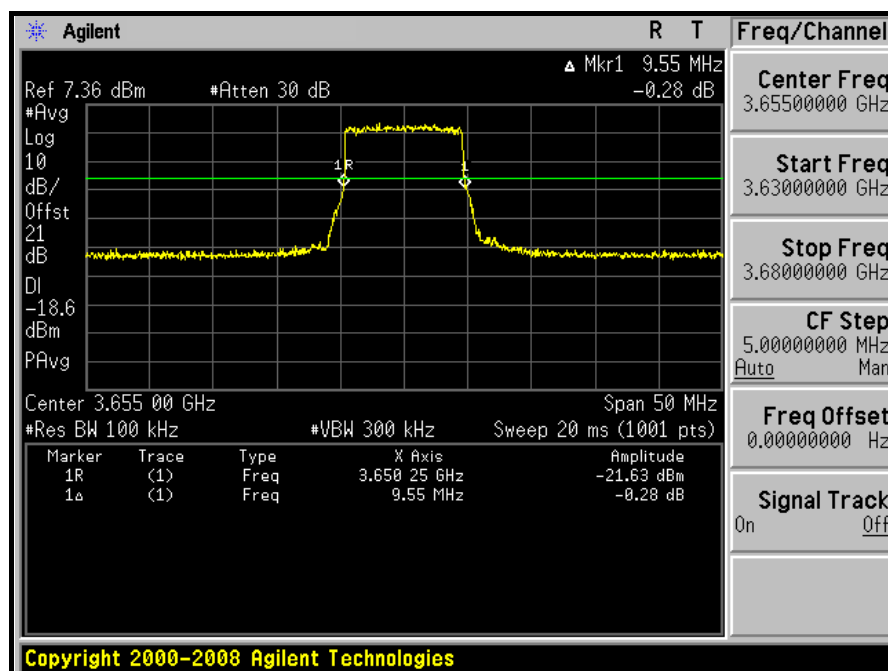
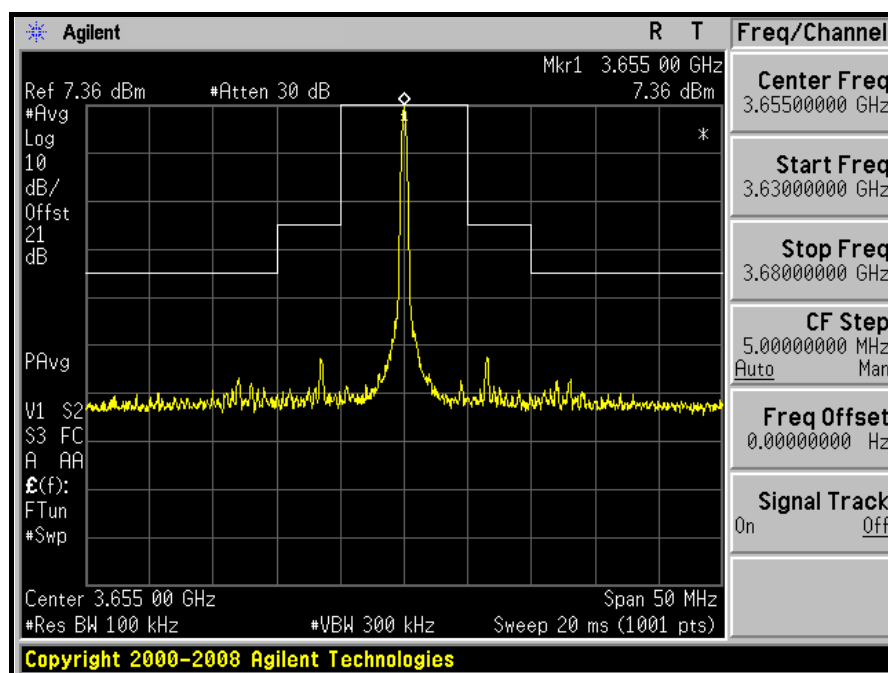




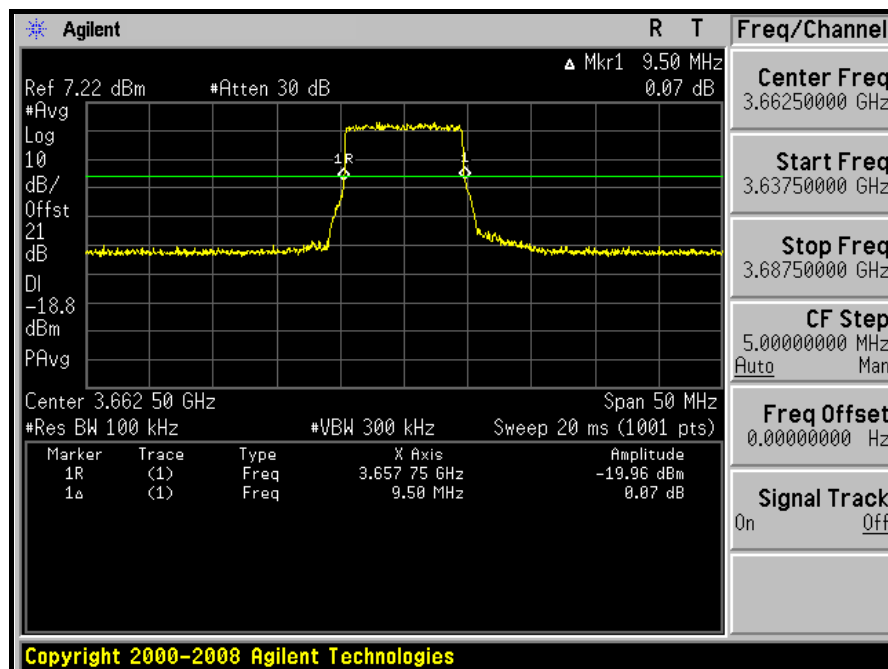
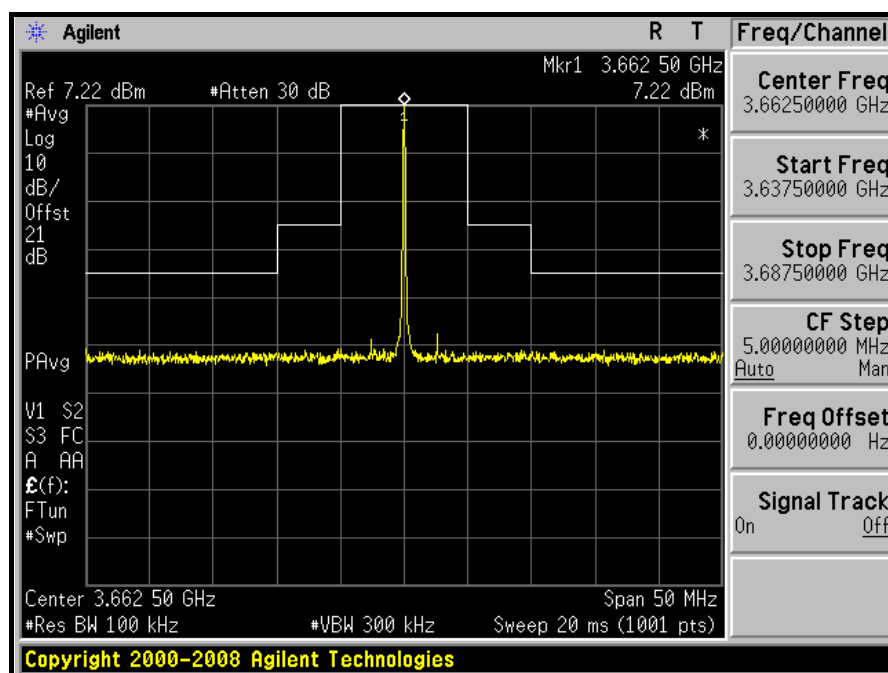
A D T

TEST MODE: B1		
CHANNEL BANDWIDTH	CHANNEL	-26dBc BANDWIDTH (MHz)
10.0MHz	Low	9.550
	Middle	9.500
	High	9.600

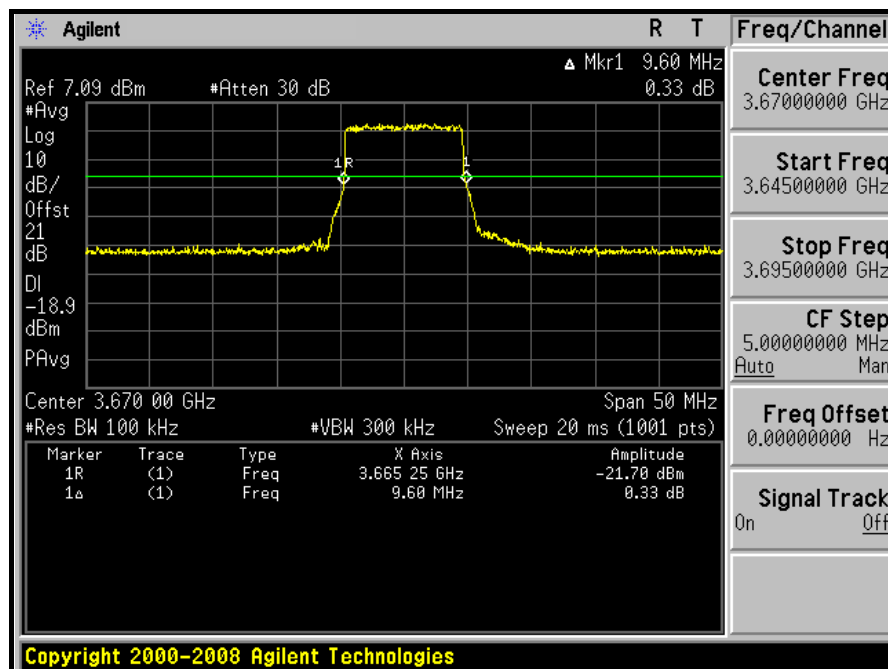
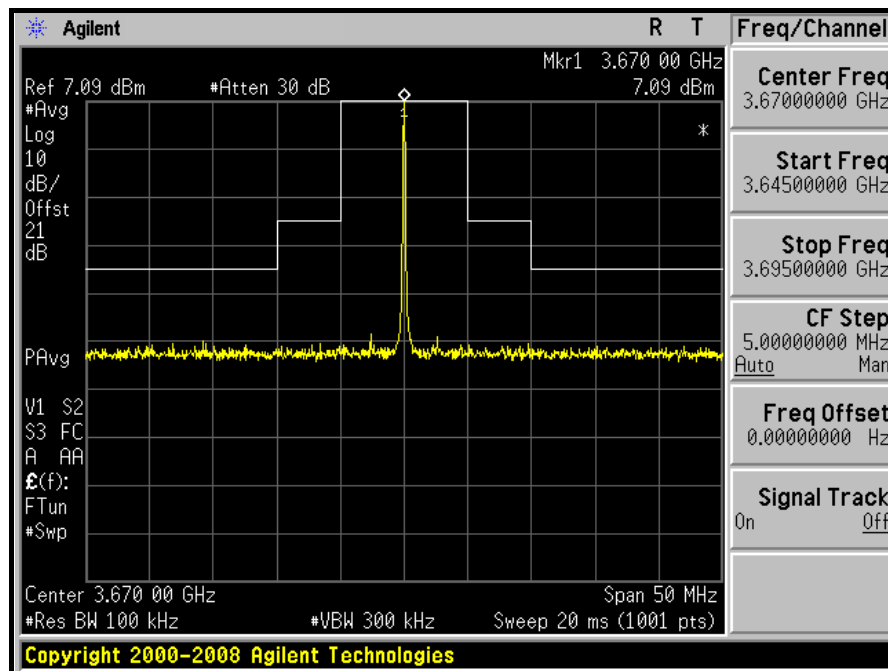
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



4.4 EMISSION MASKS

4.4.1 LIMITS OF EMISSION MASKS

For transmitters that are equipped with an audio low-pass filter, the power of any emission must be attenuated below the unmodulated carrier power (P) as follows:

- (1) On any frequency removed from the assigned frequency by more than 50 percent, but not more than 100 percent of the authorized bandwidth: At least 25 dB.
- (2) On any frequency removed from the assigned frequency by more than 100 percent, but not more than 250 percent of the authorized bandwidth: At least 35 dB.
- (3) On any frequency removed from the assigned frequency by more than 250 percent of the authorized bandwidth: At least $43 + 10\log(P)$ dB.

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY44360128	Feb. 23, 2010	Feb. 22, 2011
RF cable	SUCOFLEX 104	257029	Sep. 12, 2009	Sep. 11, 2010
DC-6GHz 20dB 50W Fixed attenuator Woken	MDC9331N-20	0724	May 15, 2010	May 14, 2011

NOTE: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

4.4.3 TEST SETUP

Same as 4.1.4

4.4.4 TEST PROCEDURES

- a. The bandwidth of the fundamental frequency was measured by spectrum analyzer with RBW = 36kHz (3.5MHz bandwidth), 51kHz (5MHz bandwidth), 75kHz (7MHz bandwidth), 100kHz (10MHz bandwidth), VBW = 110kHz (3.5MHz bandwidth), 160kHz (5MHz bandwidth), 240kHz (7MHz bandwidth), 300kHz (10MHz bandwidth).
- b. Set EUT to transmit signal at un-modulation mode to get reference level, R_L .
- c. According R_L and Channel bandwidth to define Emission Mask range.
- d. Set EUT to transmit signal at modulation mode to check signal can comply with Emission Mask or not.

4.4.5 EUT OPERATING CONDITION

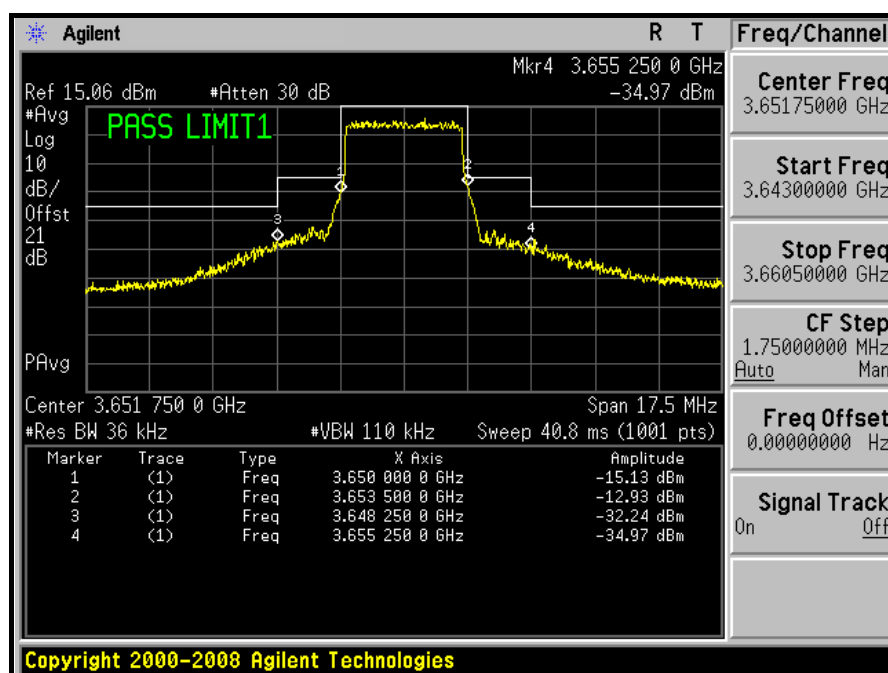
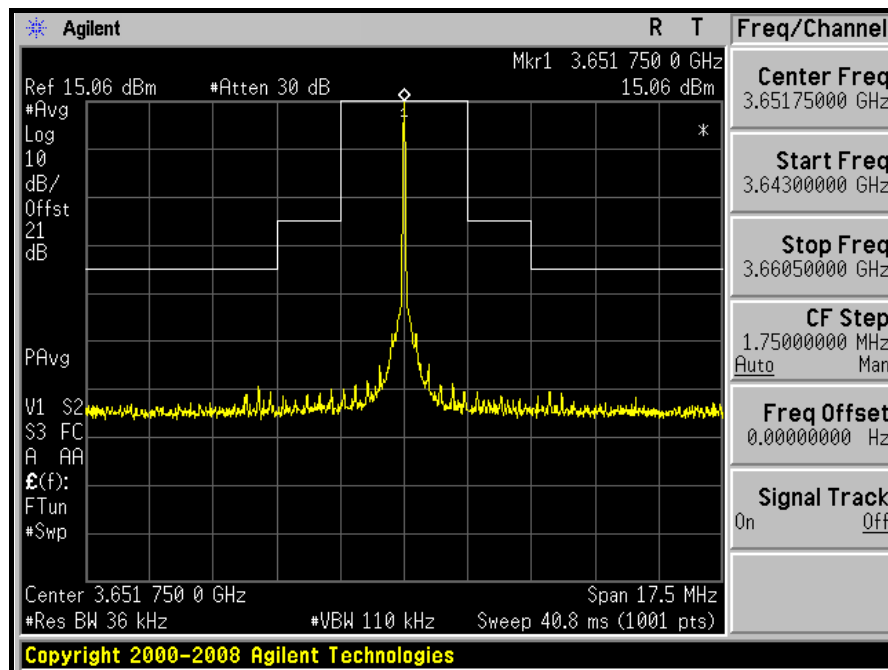
Same as 4.1.5

4.4.6 TEST RESULTS

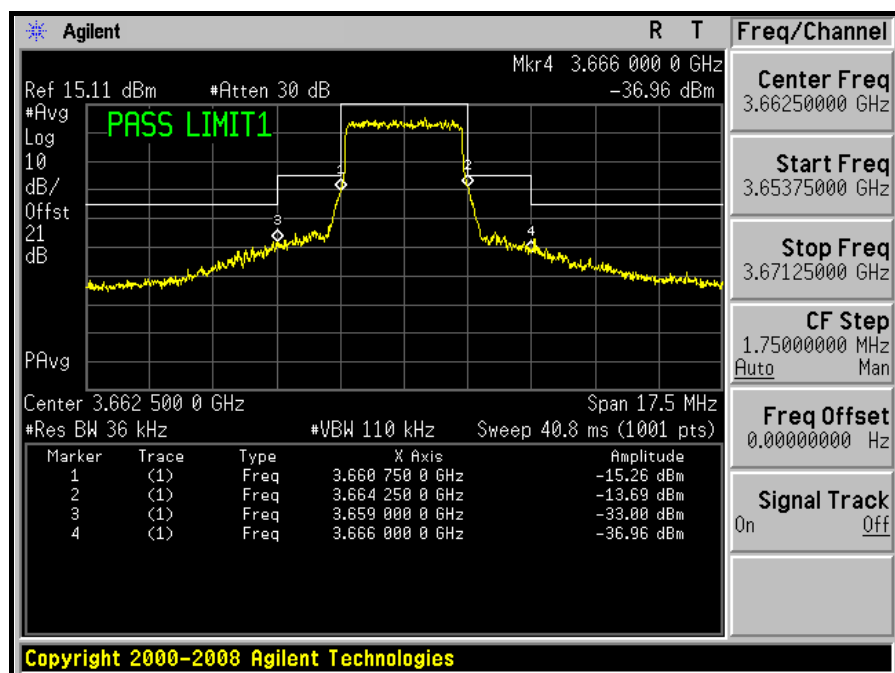
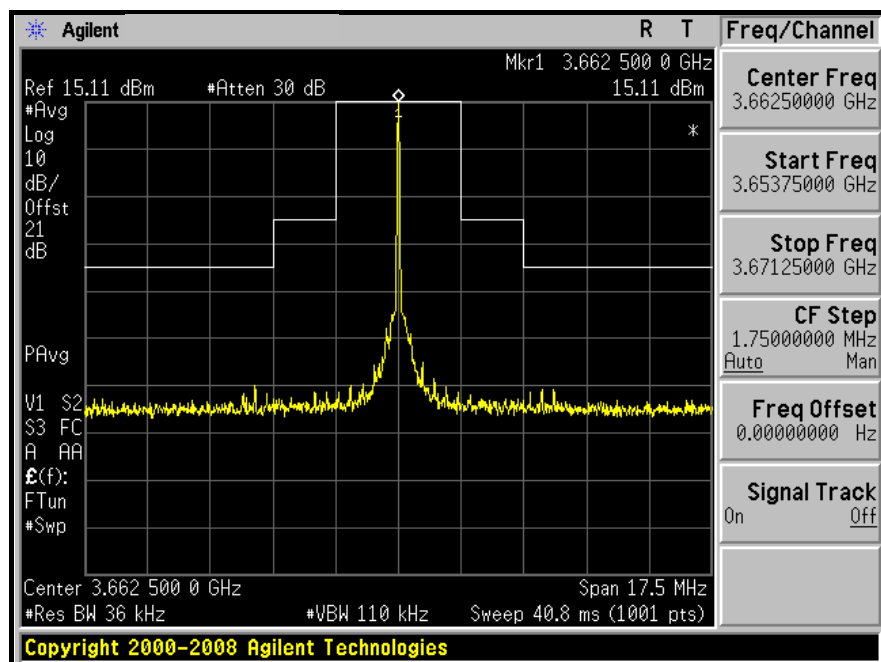
TEST MODE: A1

CHANNEL BANDWIDTH: 3.5MHz

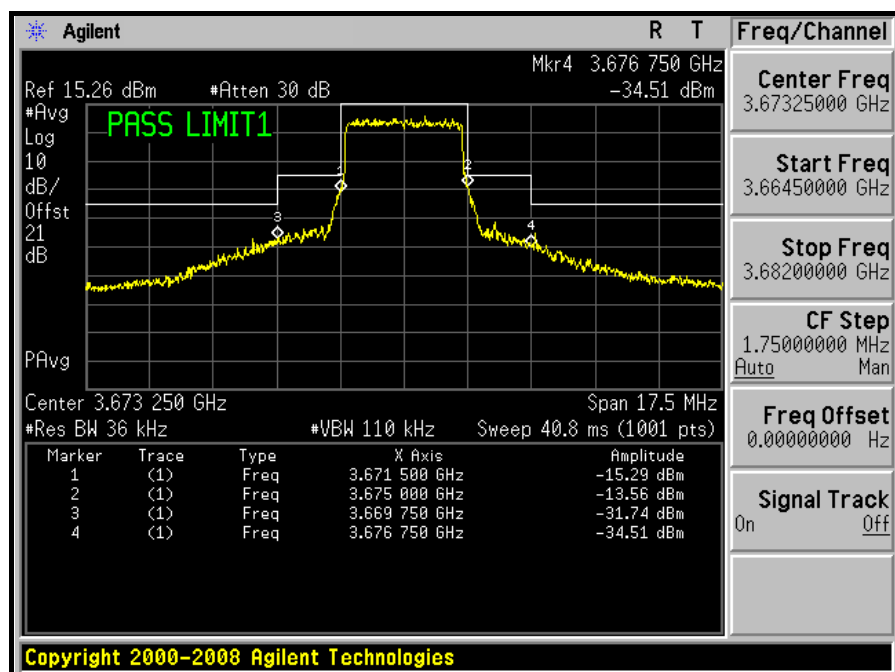
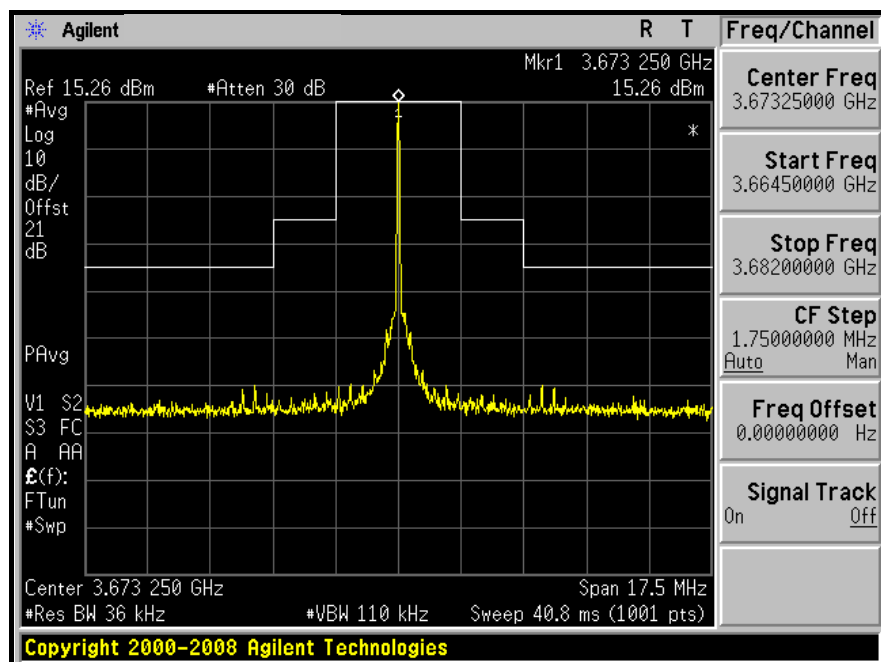
LOW CHANNEL



MIDDLE CHANNEL

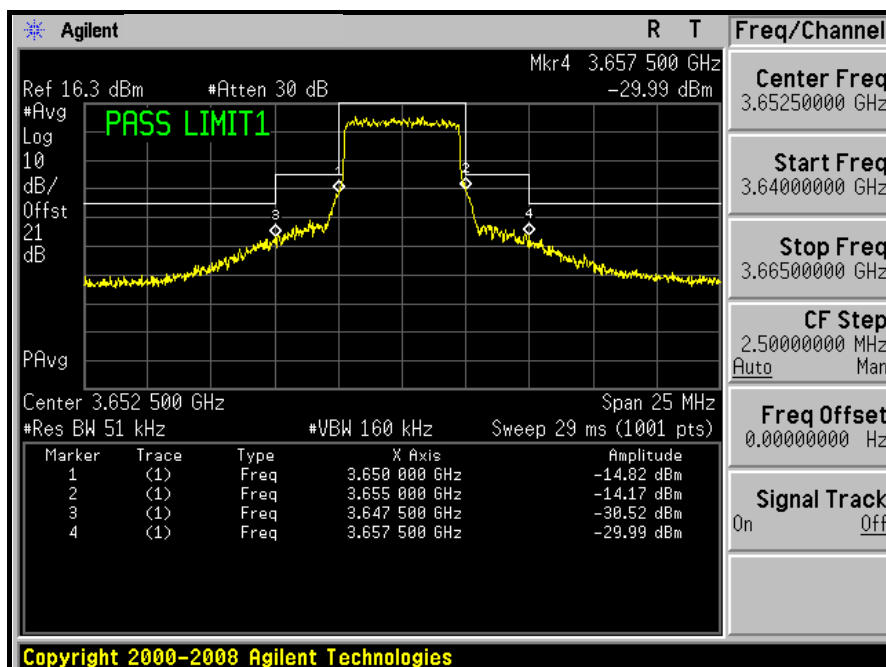
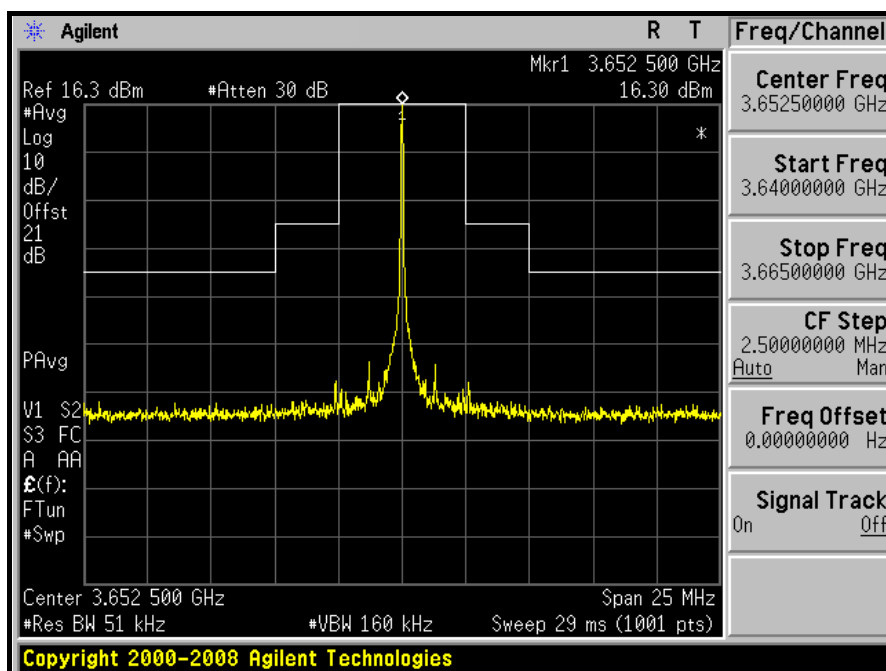


HIGH CHANNEL

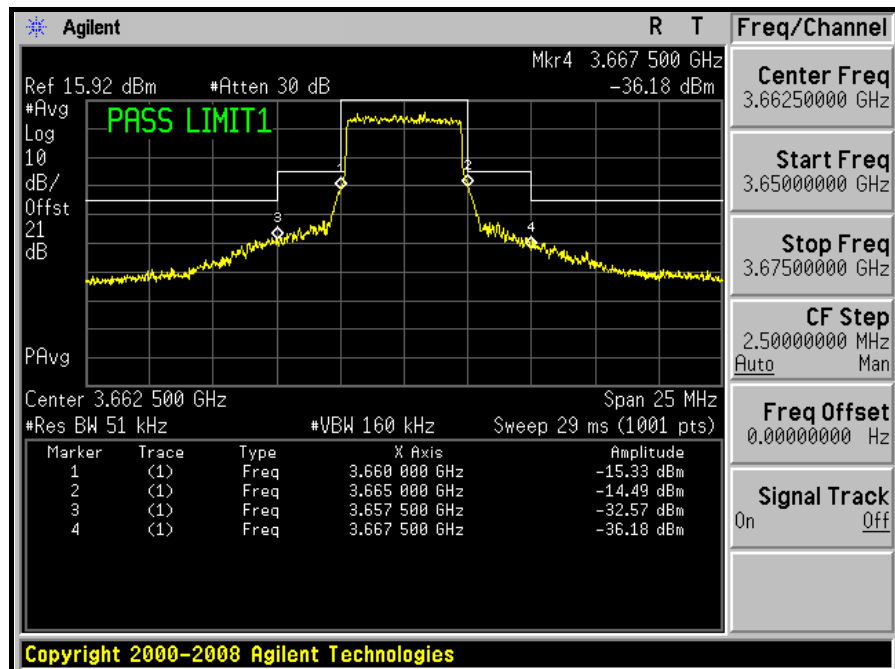
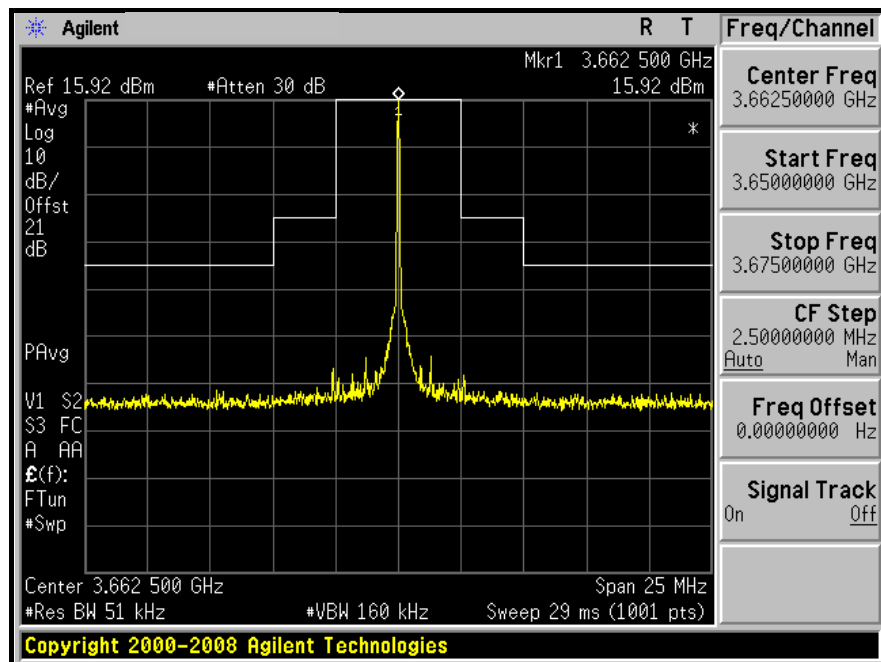


CHANNEL BANDWIDTH: 5.0MHz

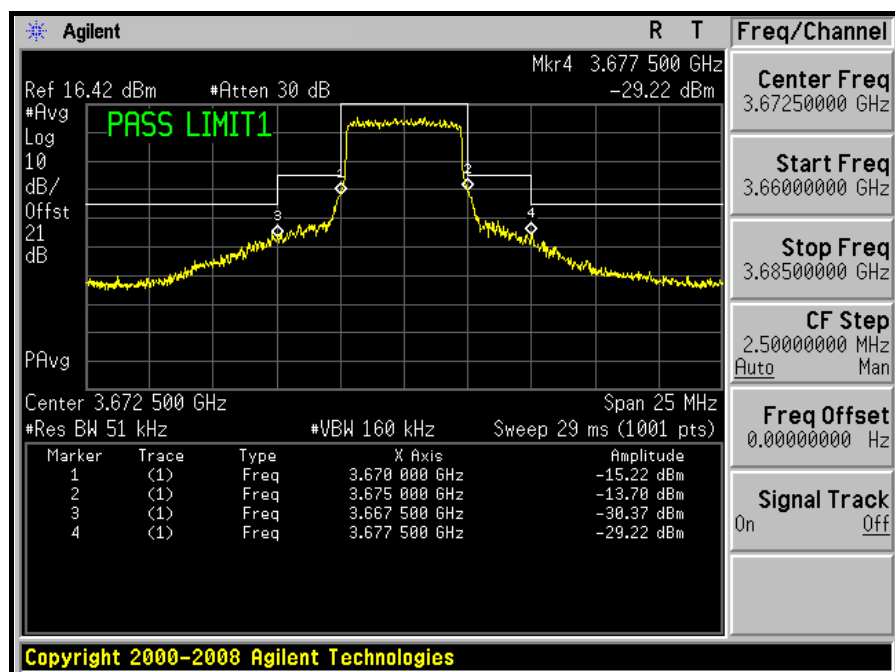
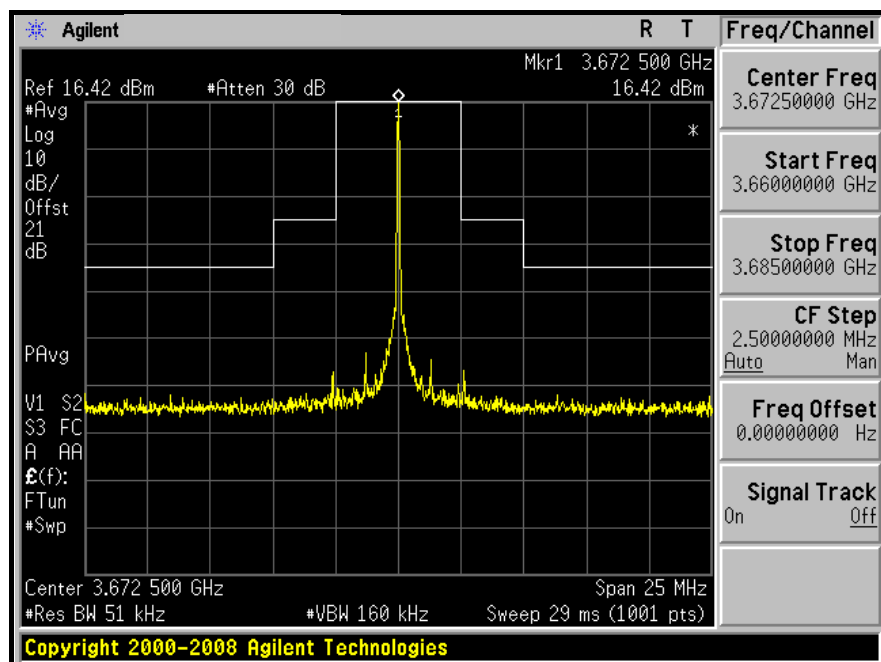
LOW CHANNEL



MIDDLE CHANNEL

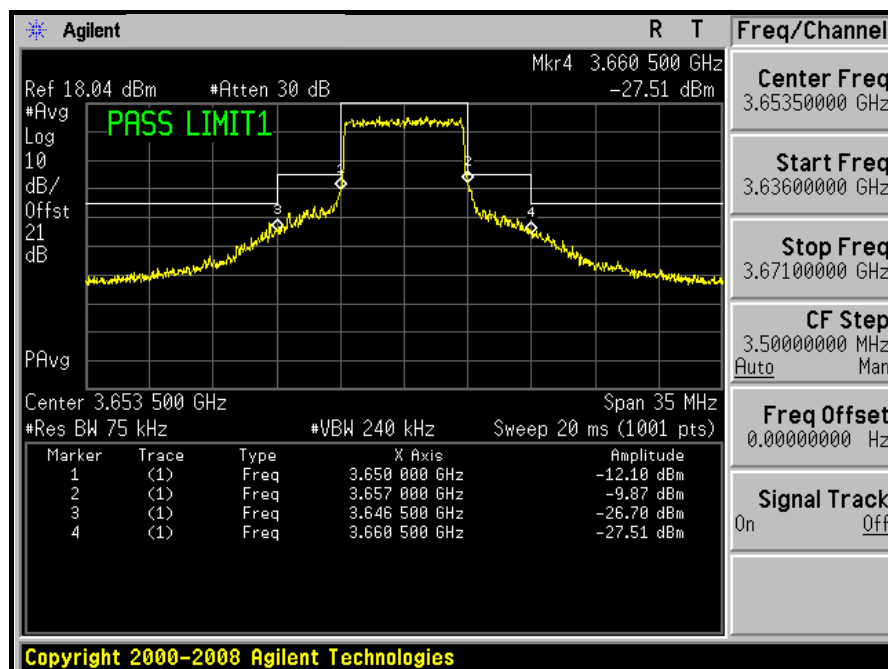
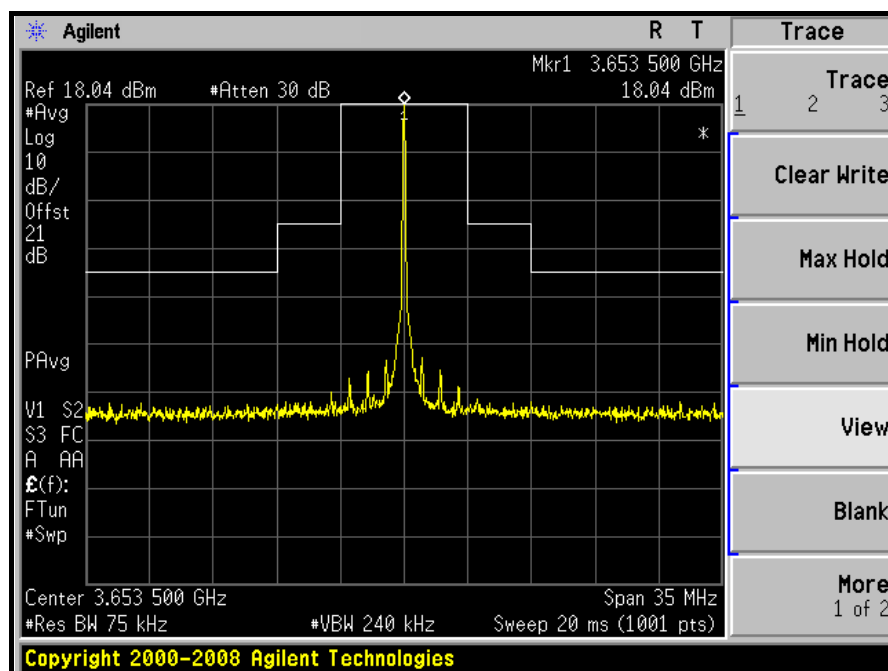


HIGH CHANNEL

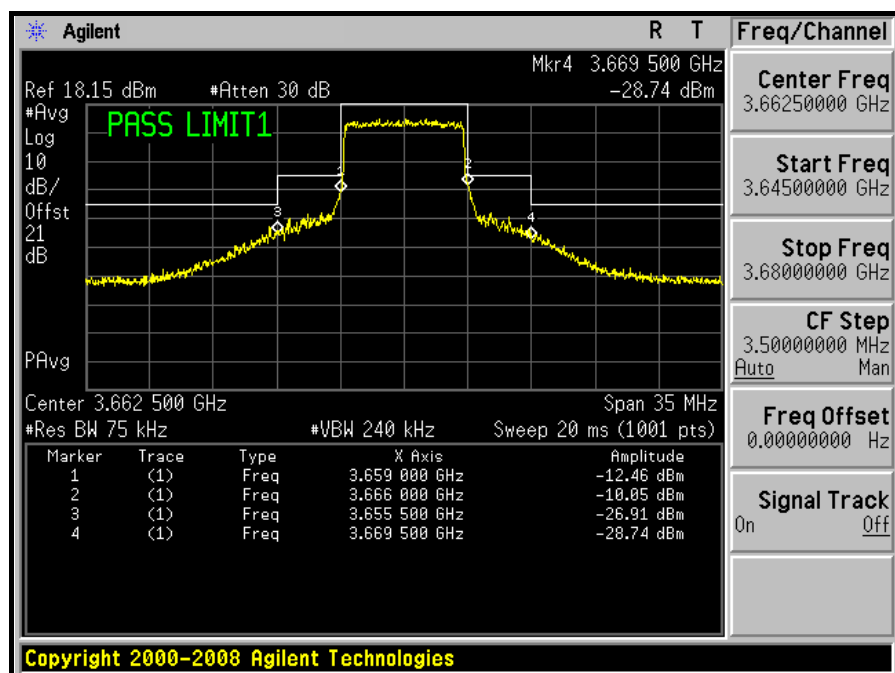
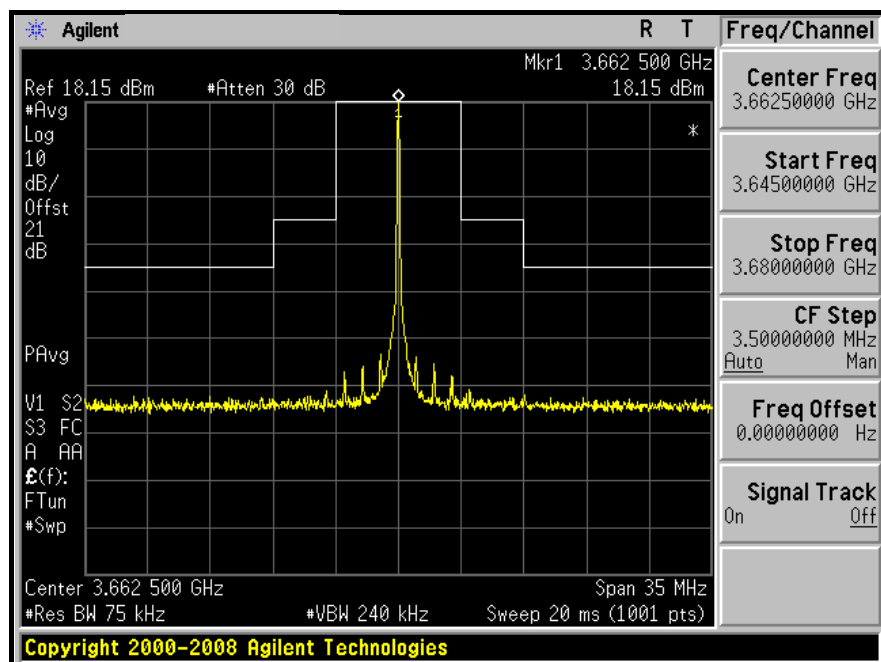


CHANNEL BANDWIDTH: 7.0MHz

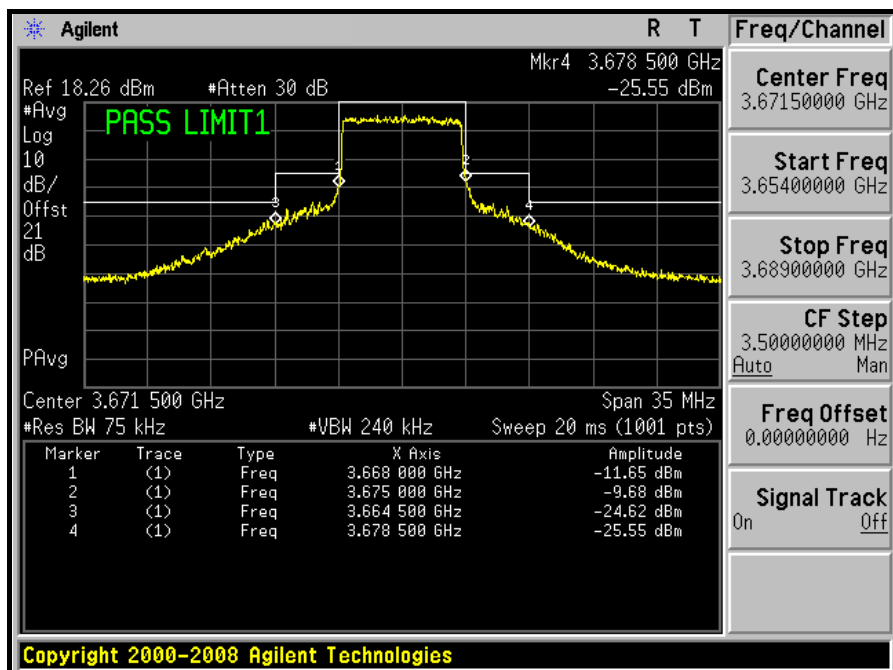
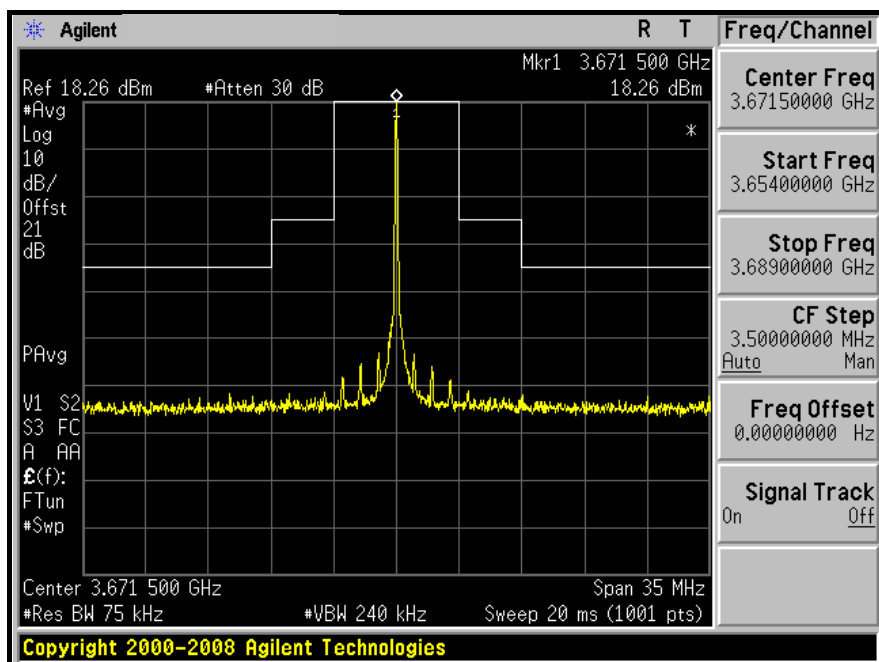
LOW CHANNEL



MIDDLE CHANNEL

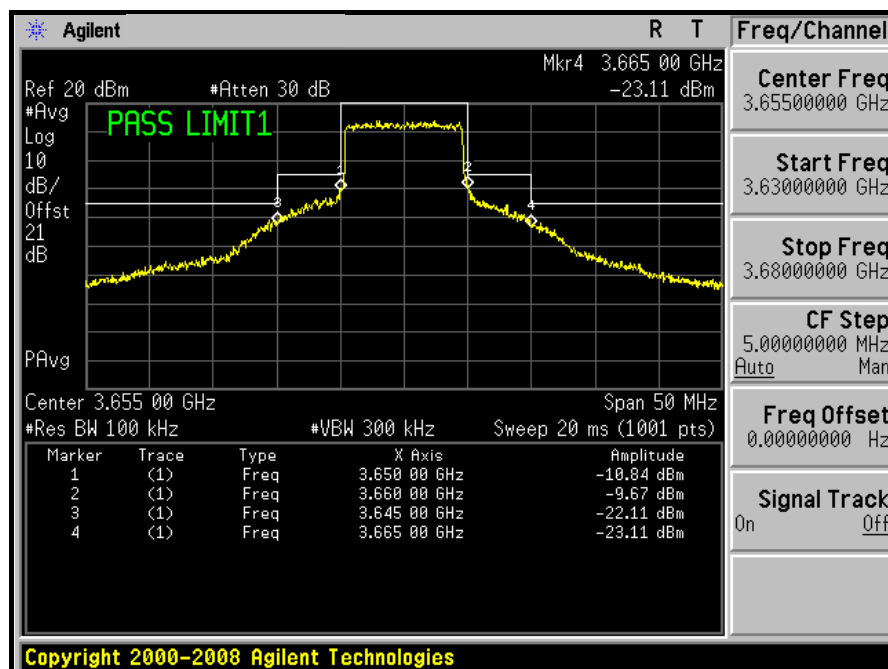
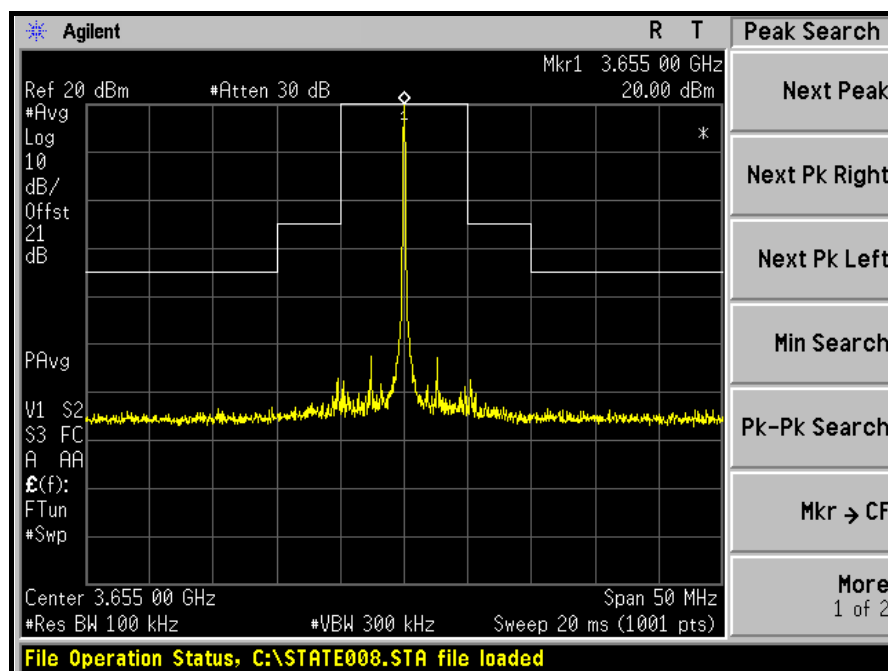


HIGH CHANNEL

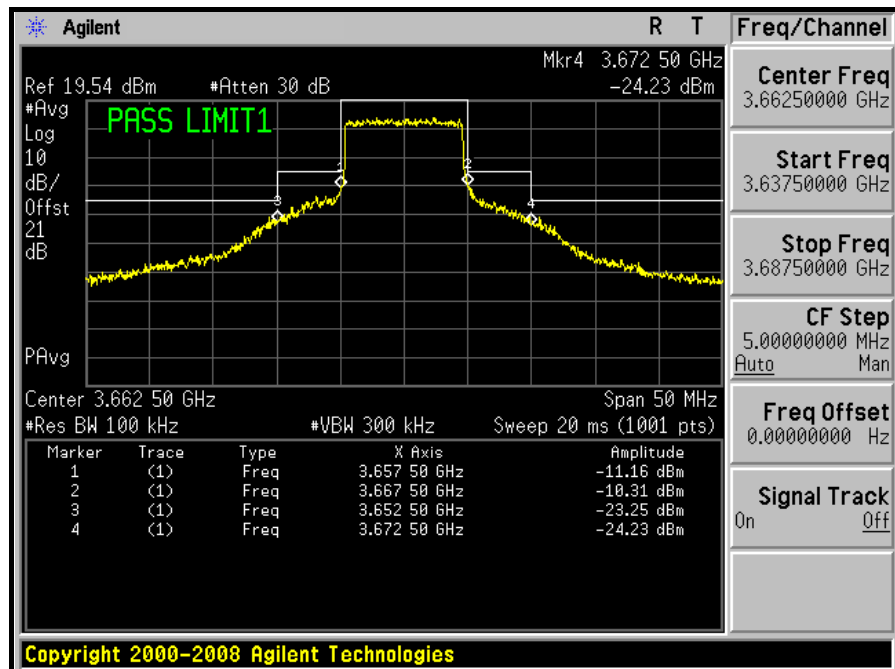
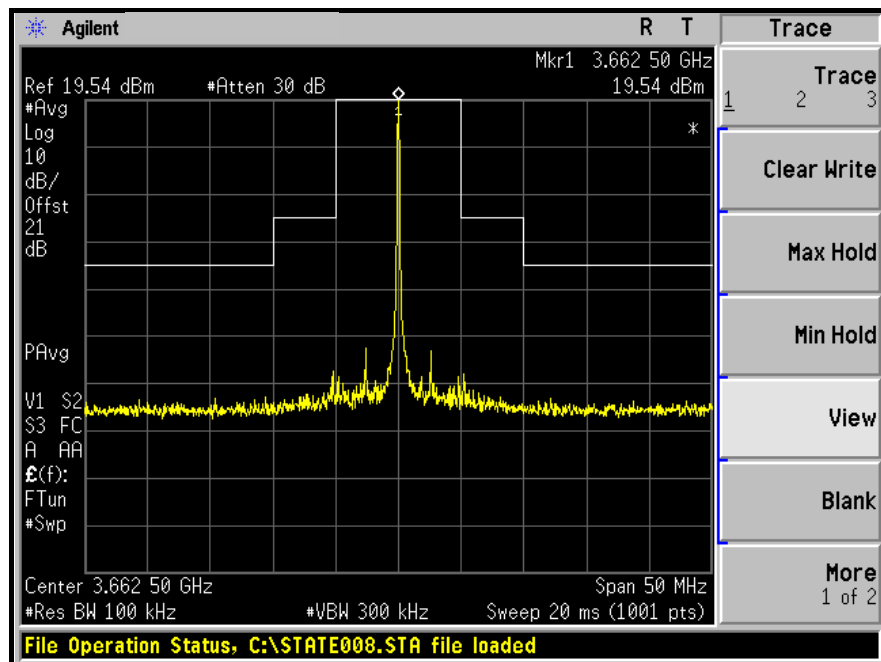


CHANNEL BANDWIDTH: 10.0MHz

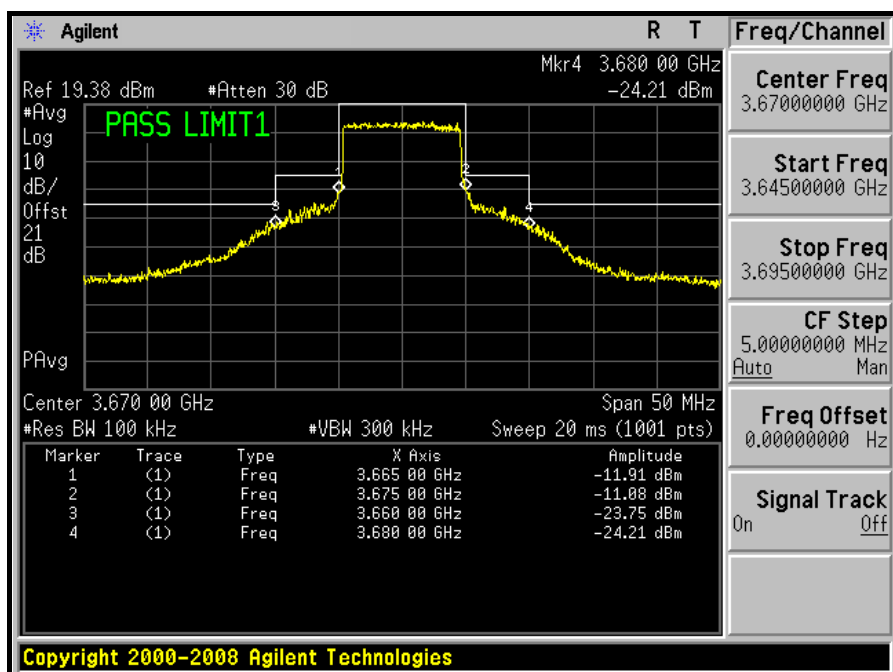
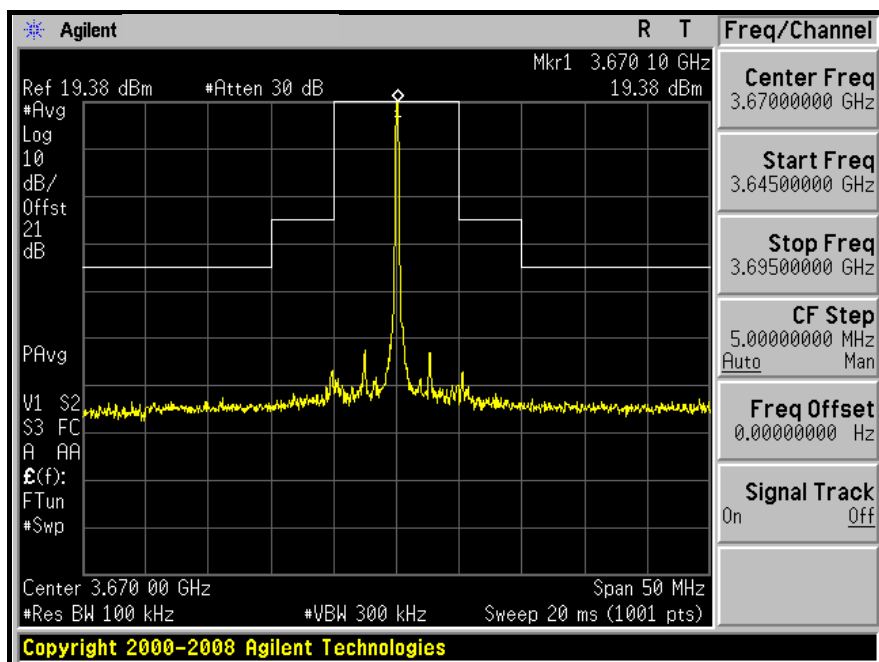
LOW CHANNEL



MIDDLE CHANNEL



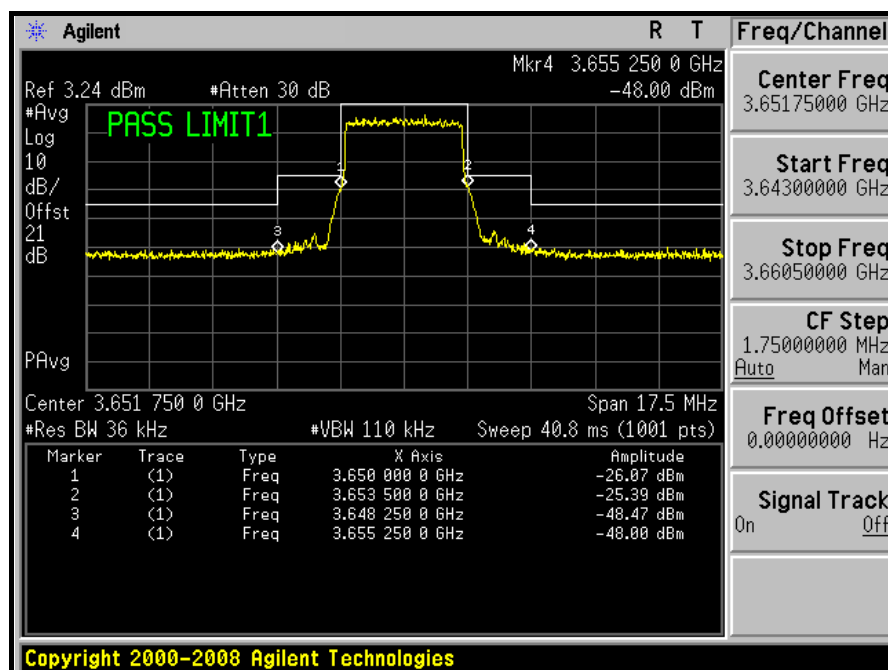
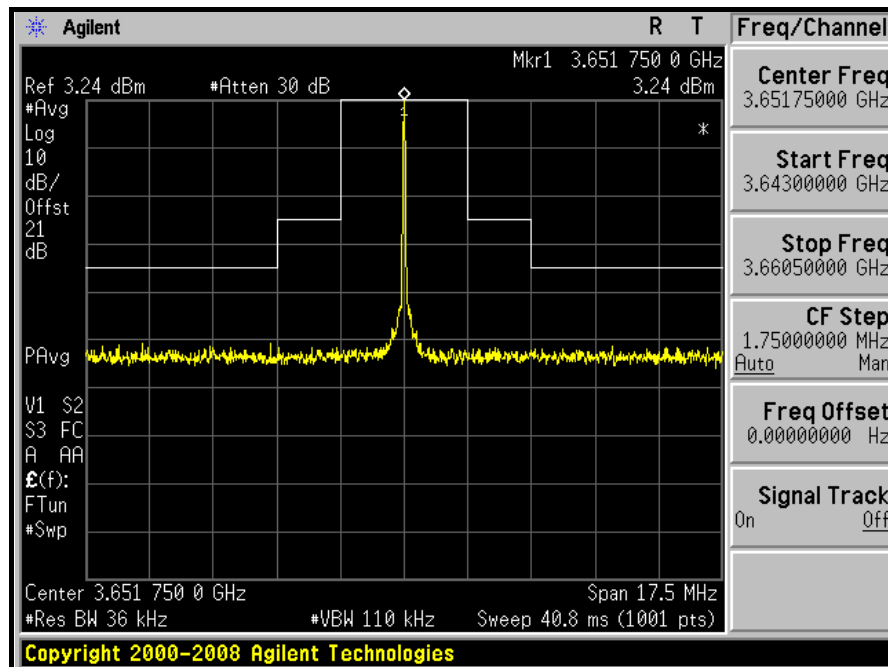
HIGH CHANNEL



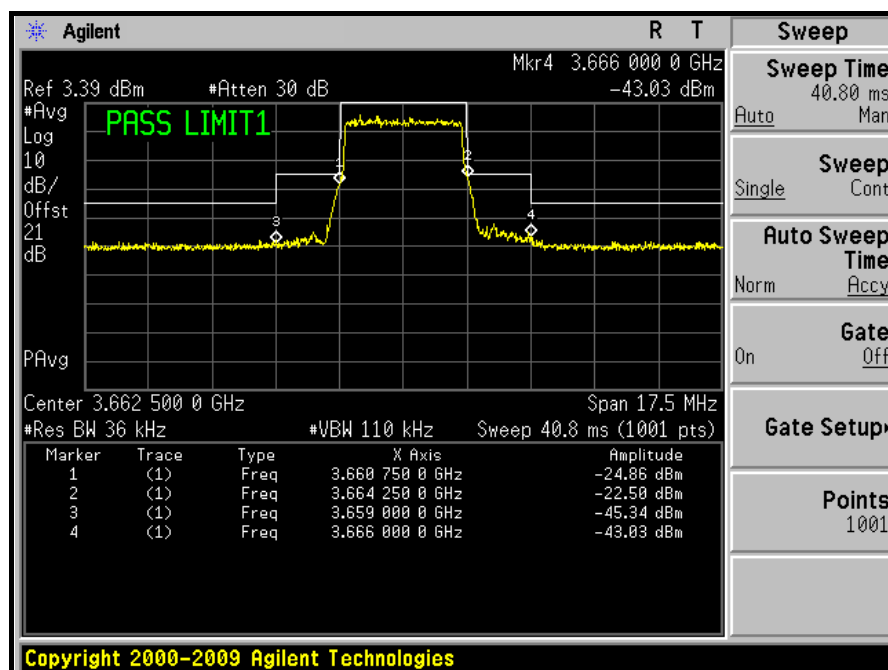
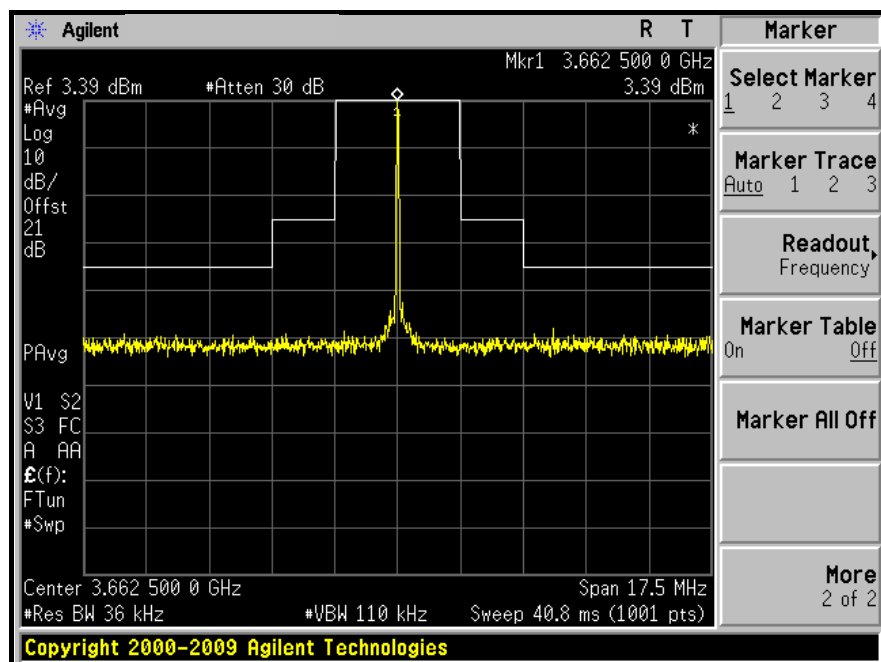
TEST MODE: B1

CHANNEL BANDWIDTH: 3.5MHz

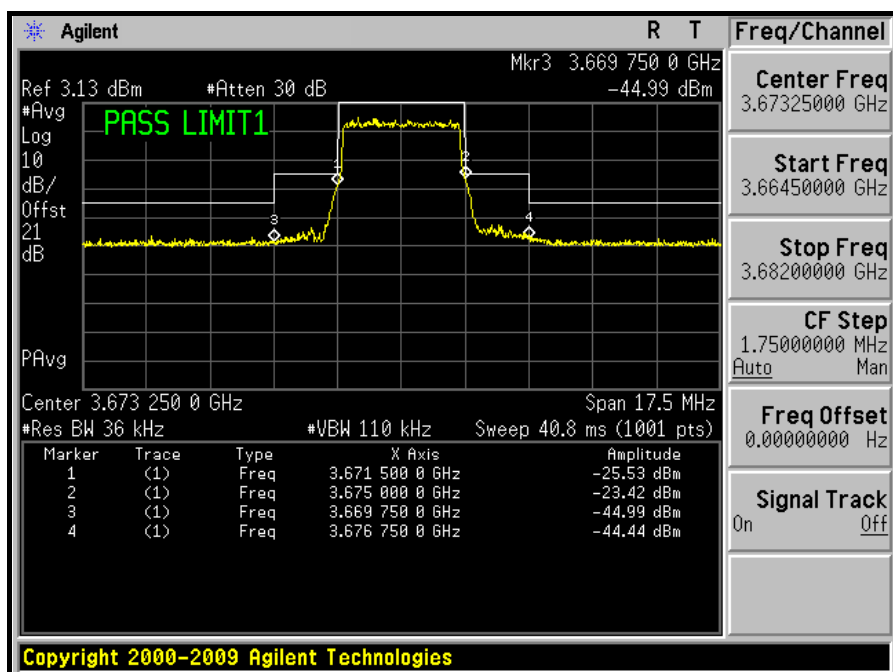
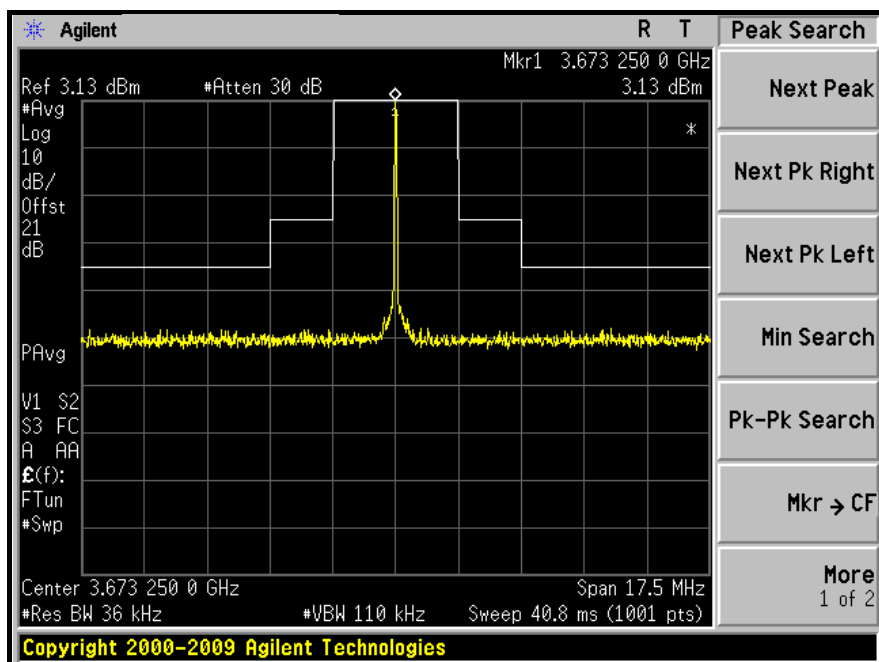
LOW CHANNEL



MIDDLE CHANNEL

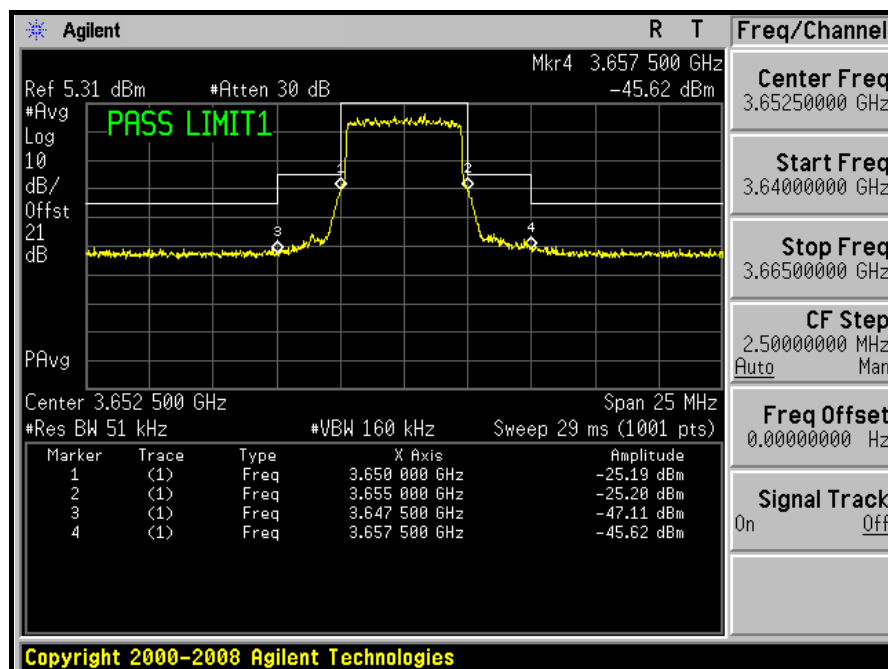
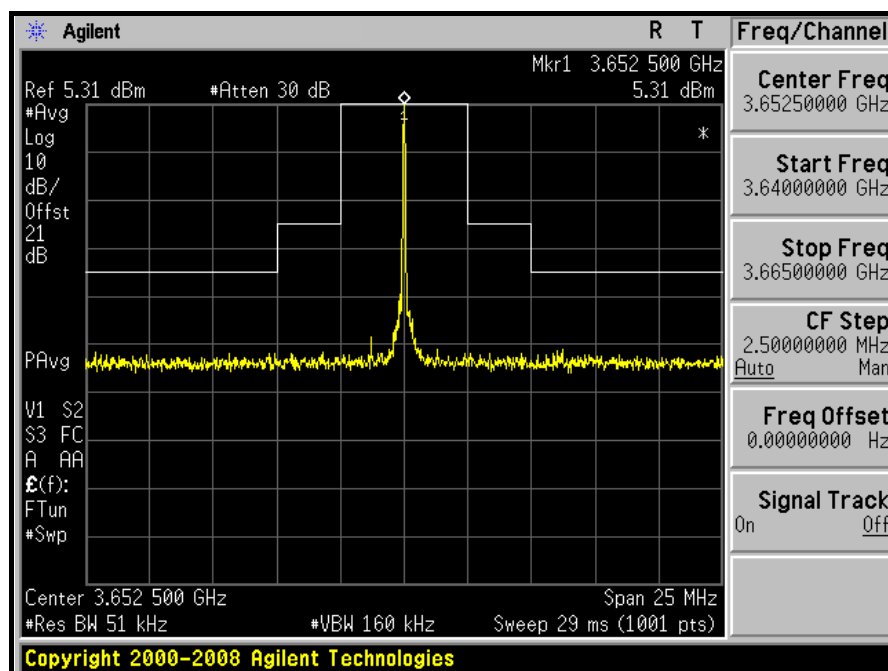


HIGH CHANNEL

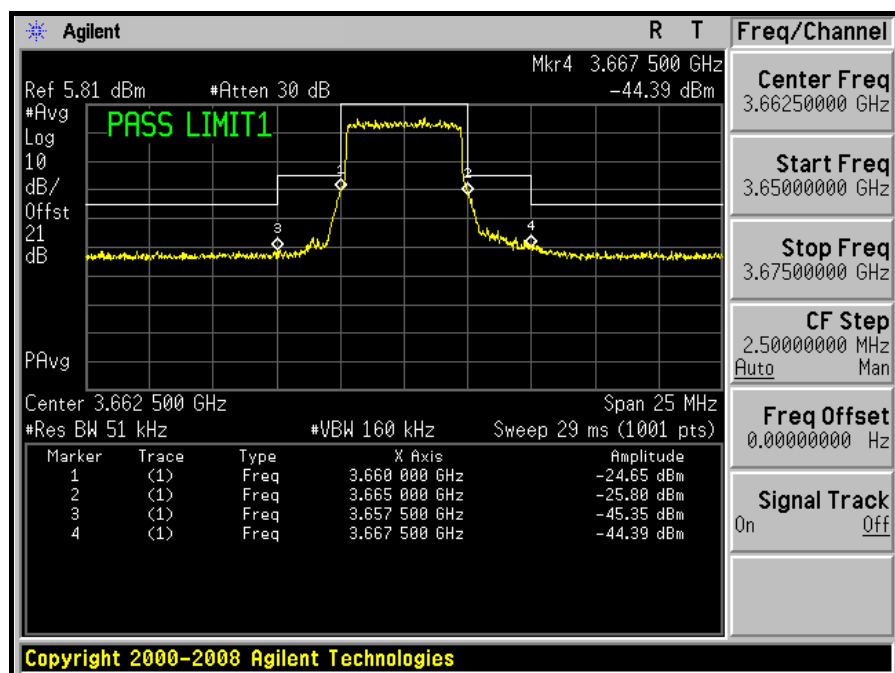
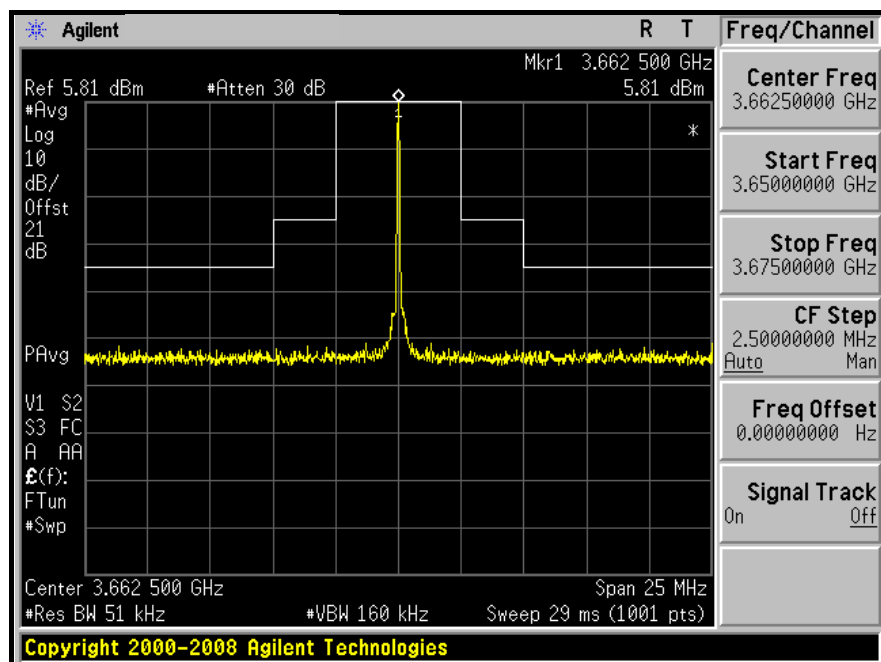


CHANNEL BANDWIDTH: 5.0MHz

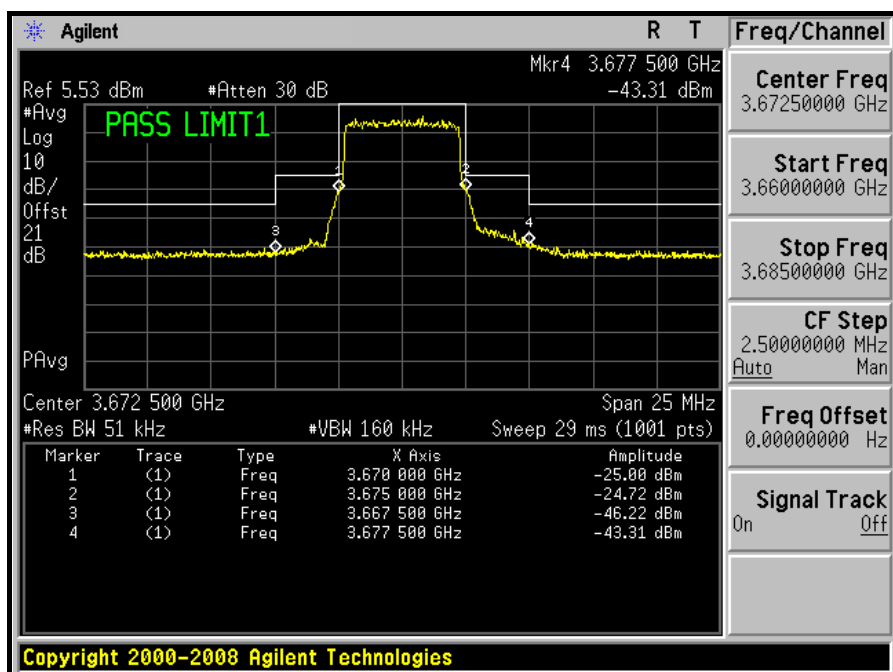
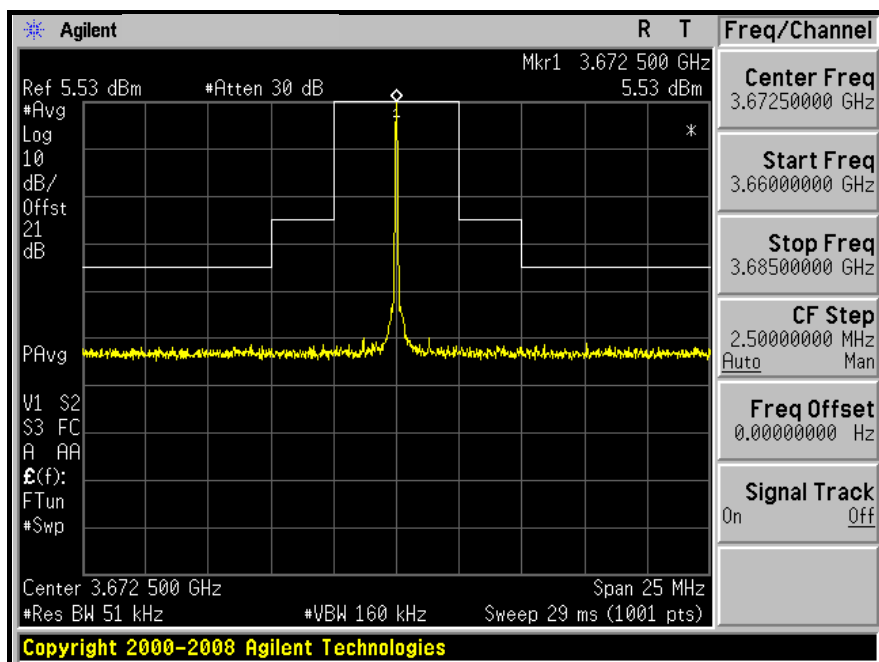
LOW CHANNEL



MIDDLE CHANNEL

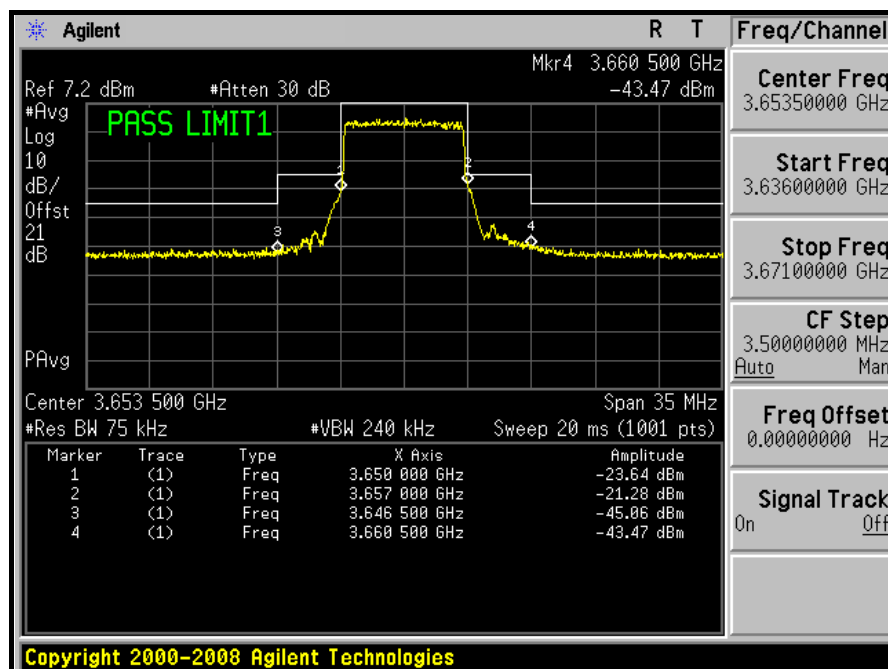
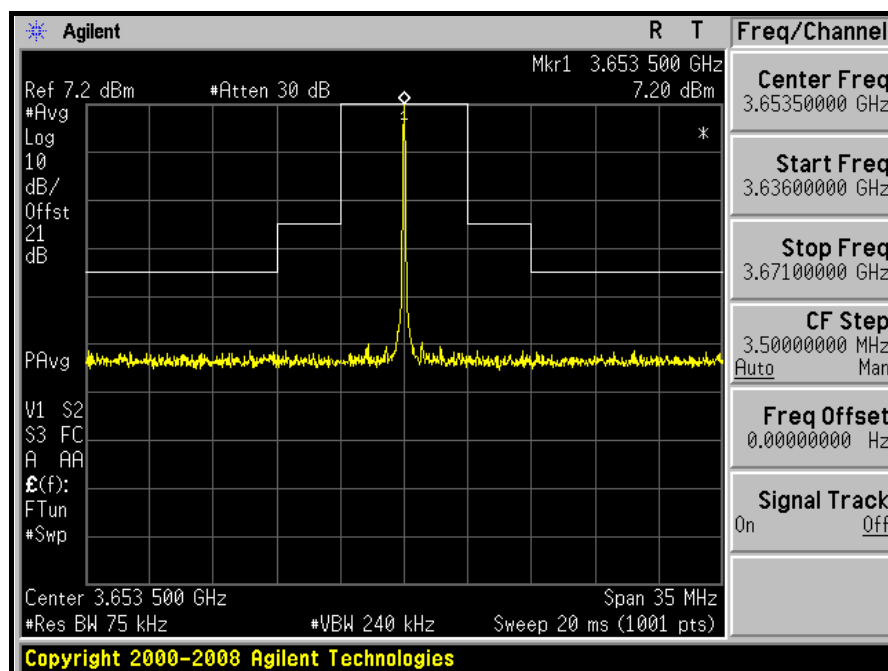


HIGH CHANNEL

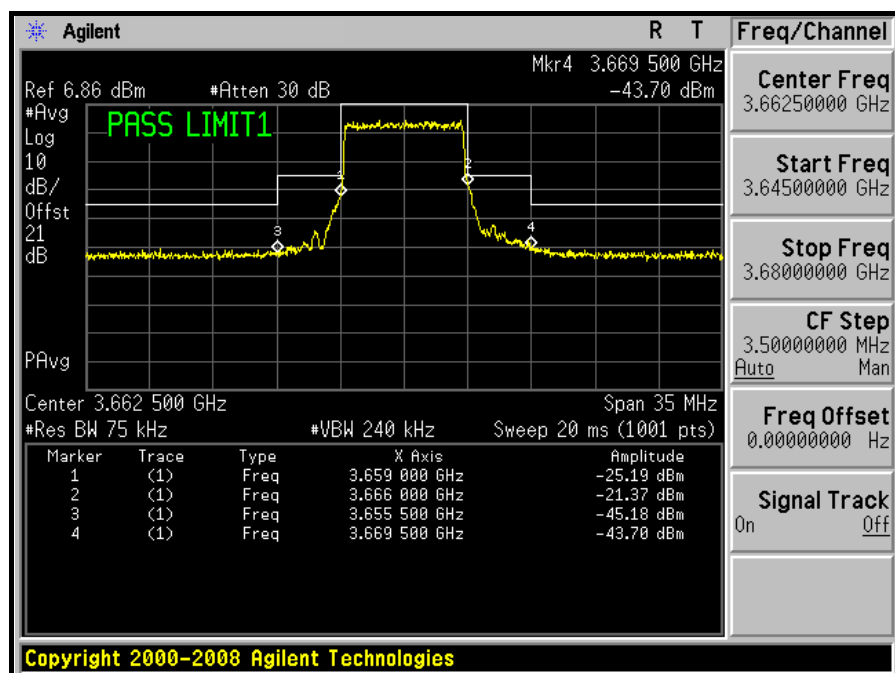
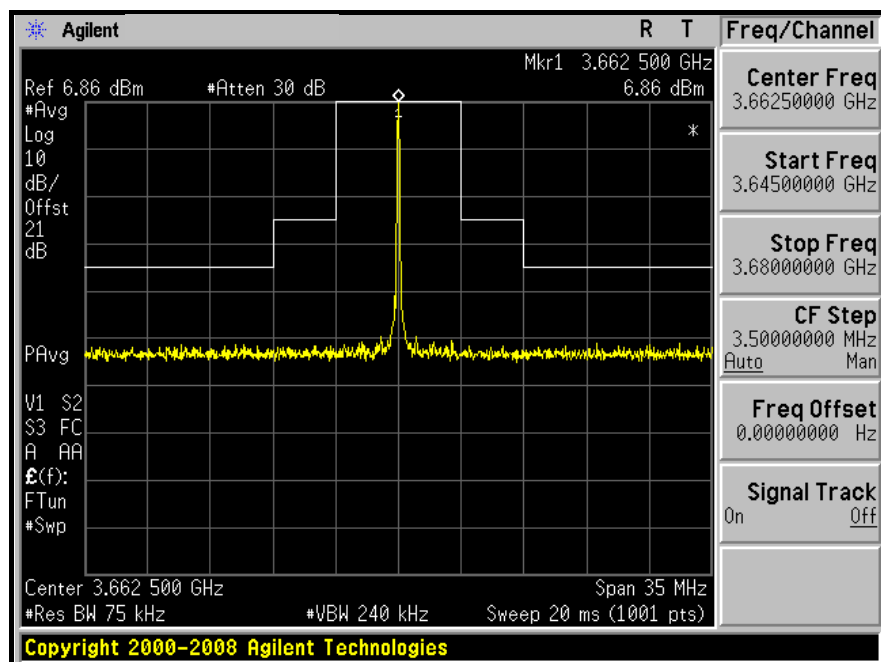


CHANNEL BANDWIDTH: 7.0MHz

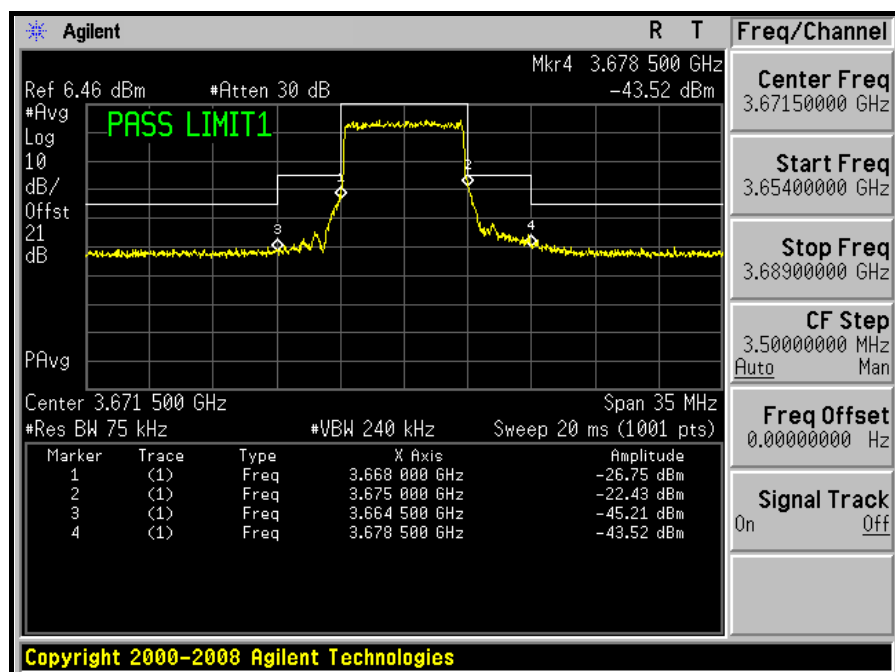
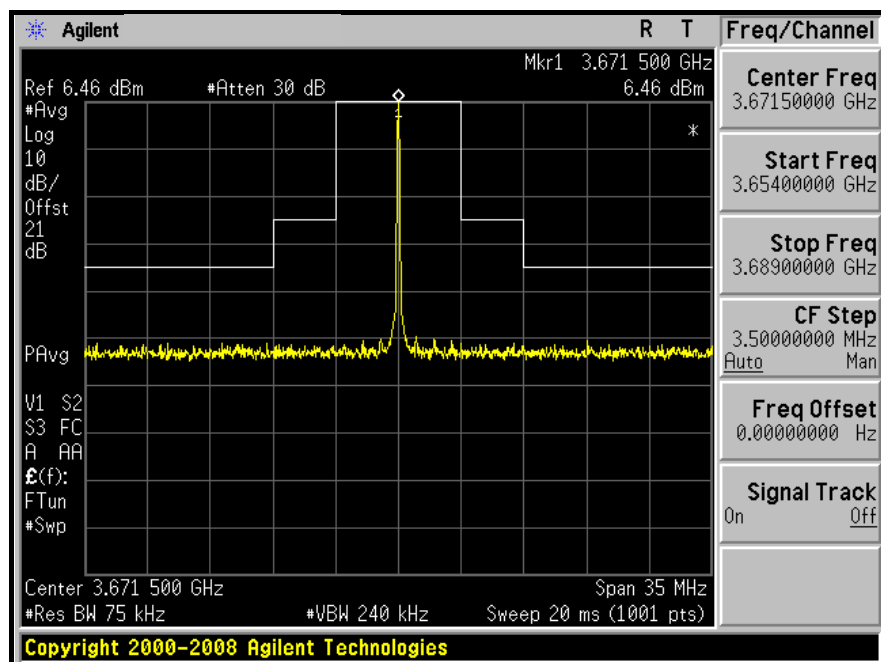
LOW CHANNEL



MIDDLE CHANNEL

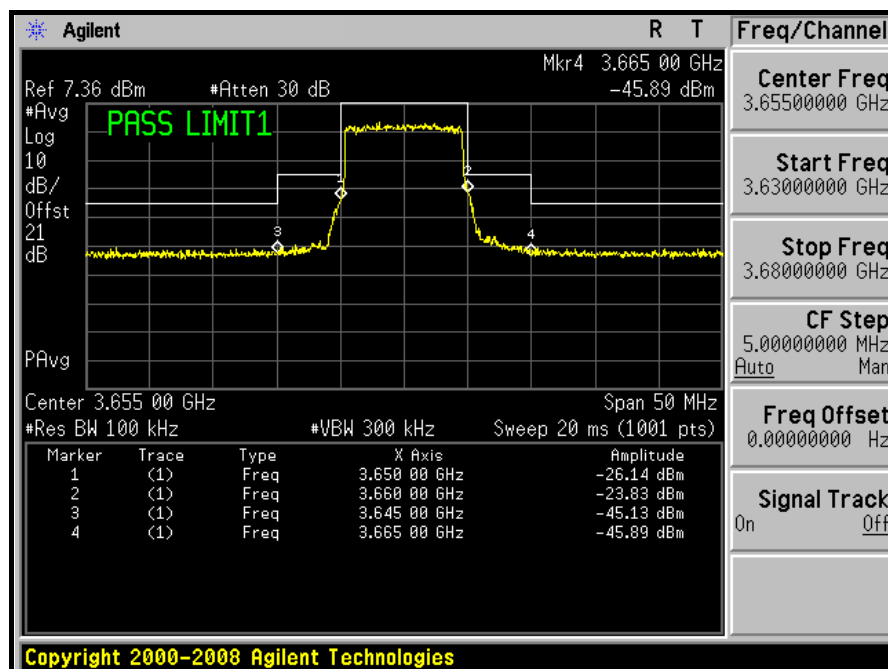
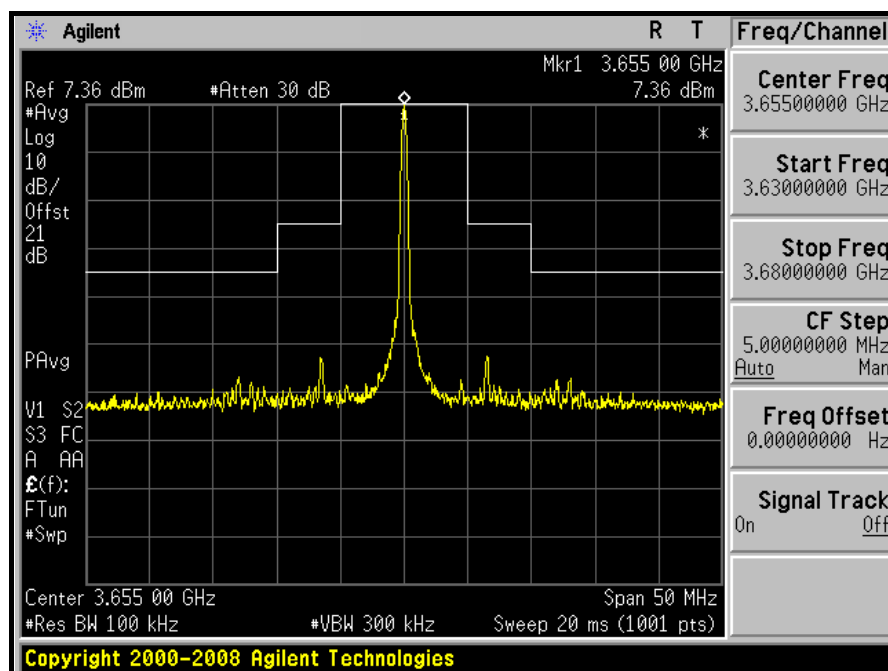


HIGH CHANNEL

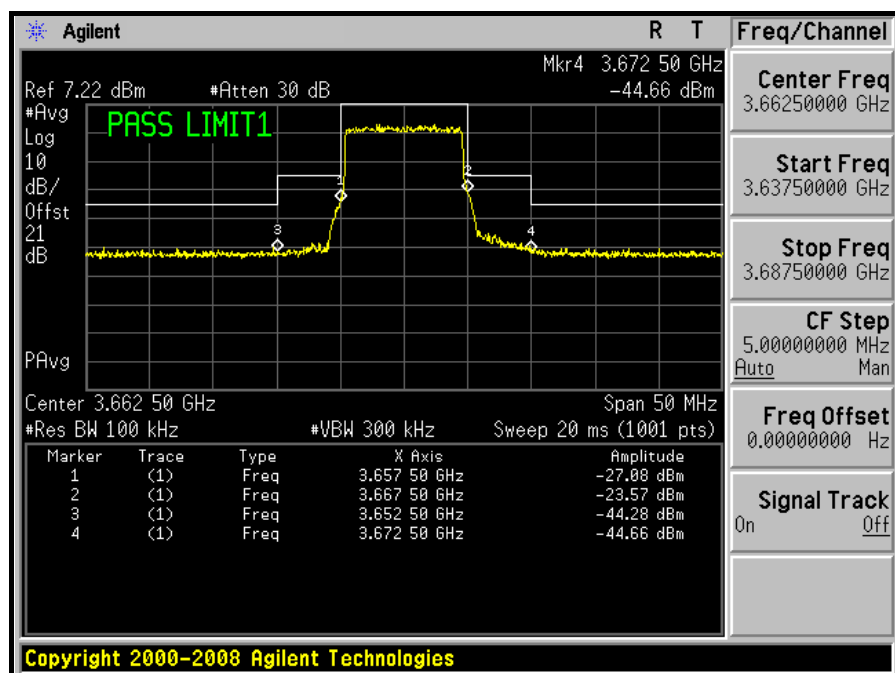
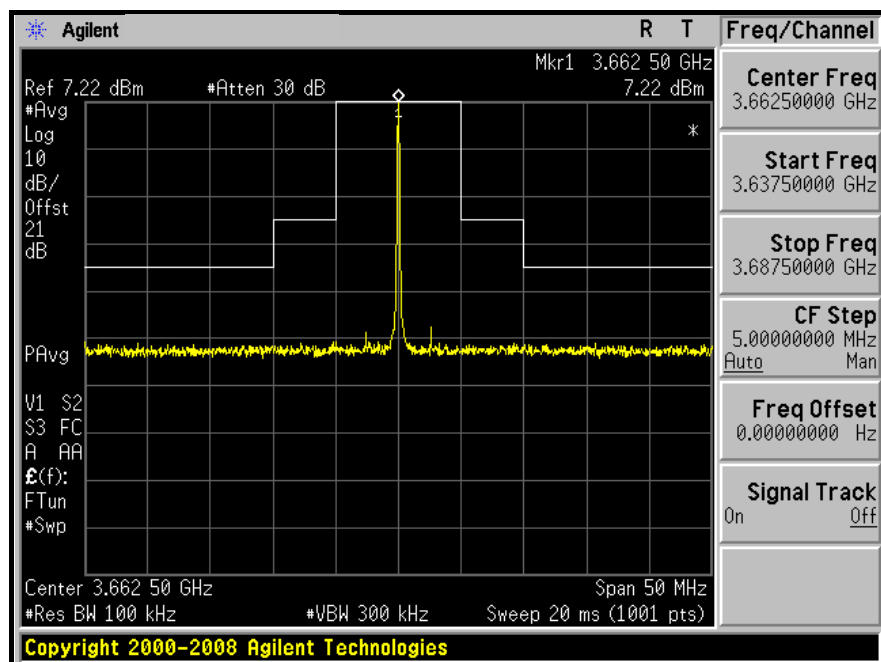


CHANNEL BANDWIDTH: 10.0MHz

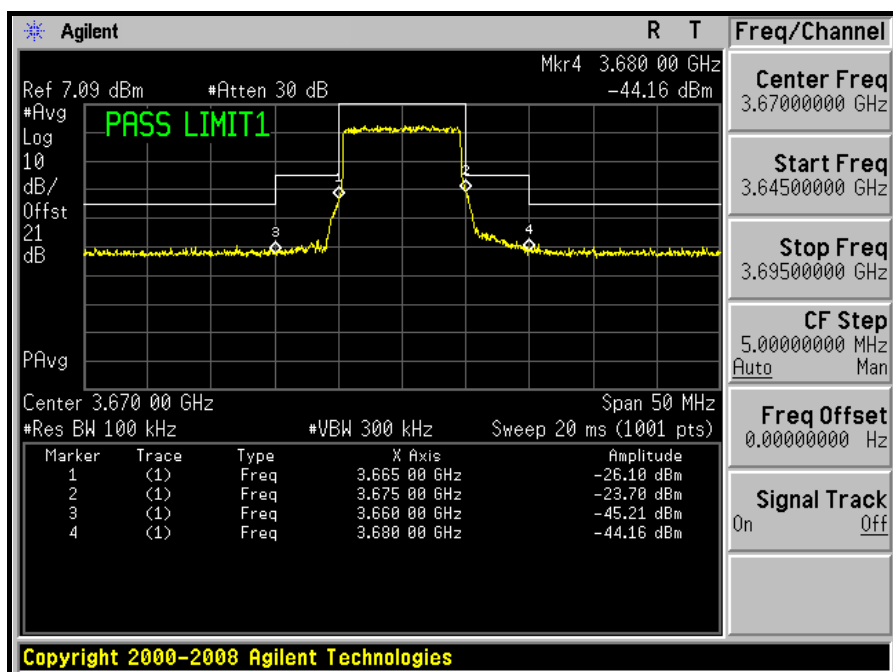
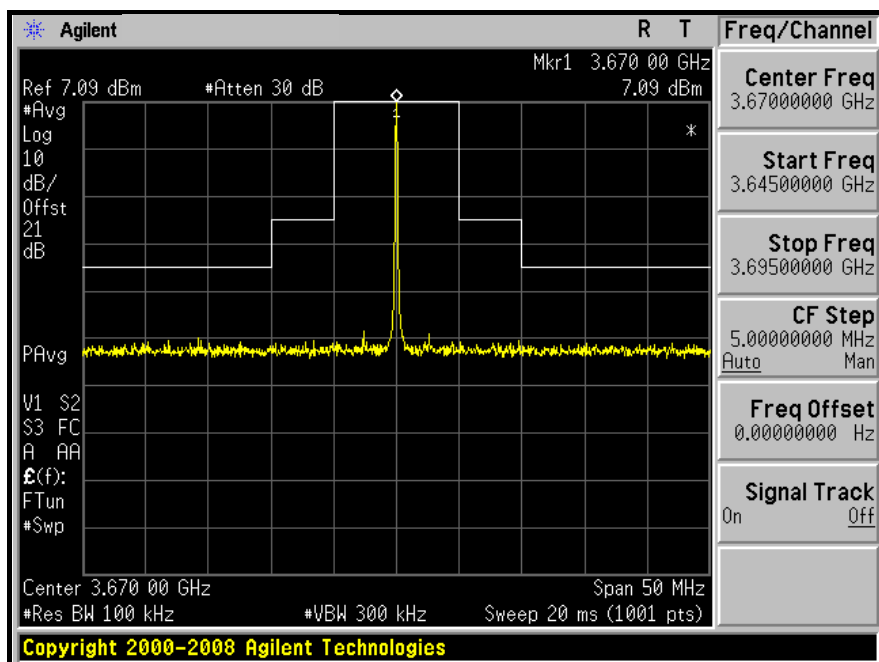
LOW CHANNEL



MIDDLE CHANNEL



HIGH CHANNEL



4.5 CONDUCTED SPURIOUS EMISSIONS

4.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

According to FCC 90.1323 specified that the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in Watts, by at least $43 + 10 \log (P)$ dB. The limit of emission equal to -13dBm Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth

4.5.2 TEST INSTRUMENTS

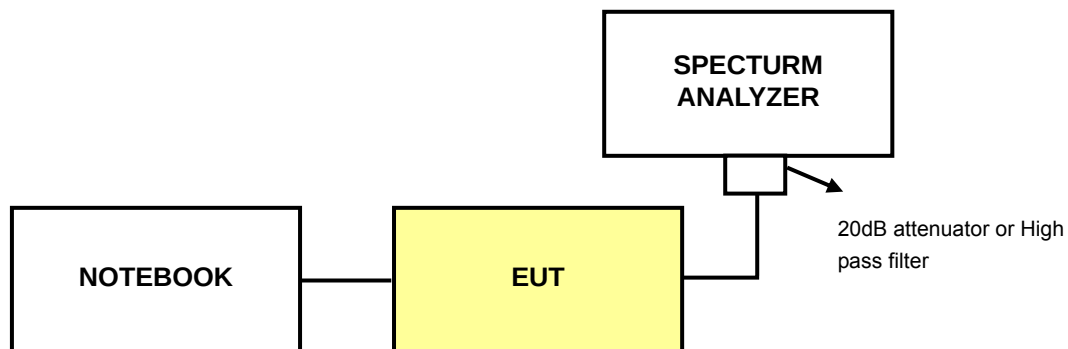
DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent	E4446A	MY44360128	Feb. 23, 2010	Feb. 22, 2011
RF cable	SUCOFLEX 104	257029	Sep. 12, 2009	Sep. 11, 2010
DC-6GHz 20dB 50W Fixed attenuator Woken	MDC9331N-20	0724	May 15, 2010	May 14, 2011
Wainwright Instruments High Pass Filter	WHKX4.5/18G -10SS	NA	NA	NA

NOTE: The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to NML/ROC and NIST/USA.

4.5.3 TEST PROCEDURE

- All measurements were done at 3 channels: low, middle and high operational frequency range.
- When the spectrum scanned from 30MHz to 4.5GHz, it shall be connected to the 20dB pad attenuated the carried frequency. The spectrum set RB = 1MHz, VB = 3MHz.
- When the spectrum scanned from 4.5GHz to 40GHz, it shall be connected to the high pass filter attenuated the carried frequency. The spectrum set RB = 1MHz, VB = 3MHz.

4.5.4 TEST SETUP



4.5.5 EUT OPERATING CONDITIONS

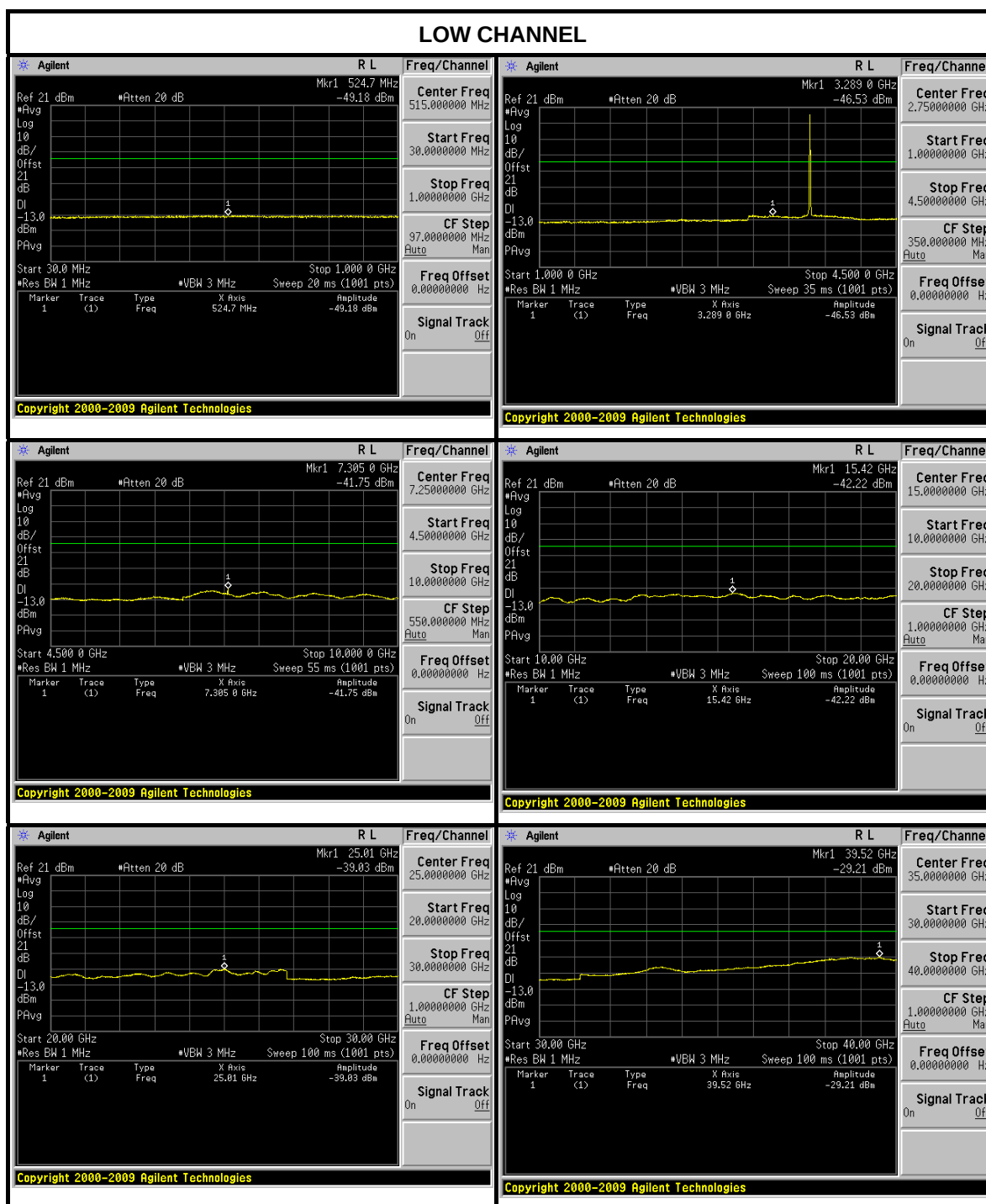
Same as 4.1.5



A D T

4.5.6 TEST RESULTS

CHANNEL BANDWIDTH	3.5MHz	TEST MODE	A1
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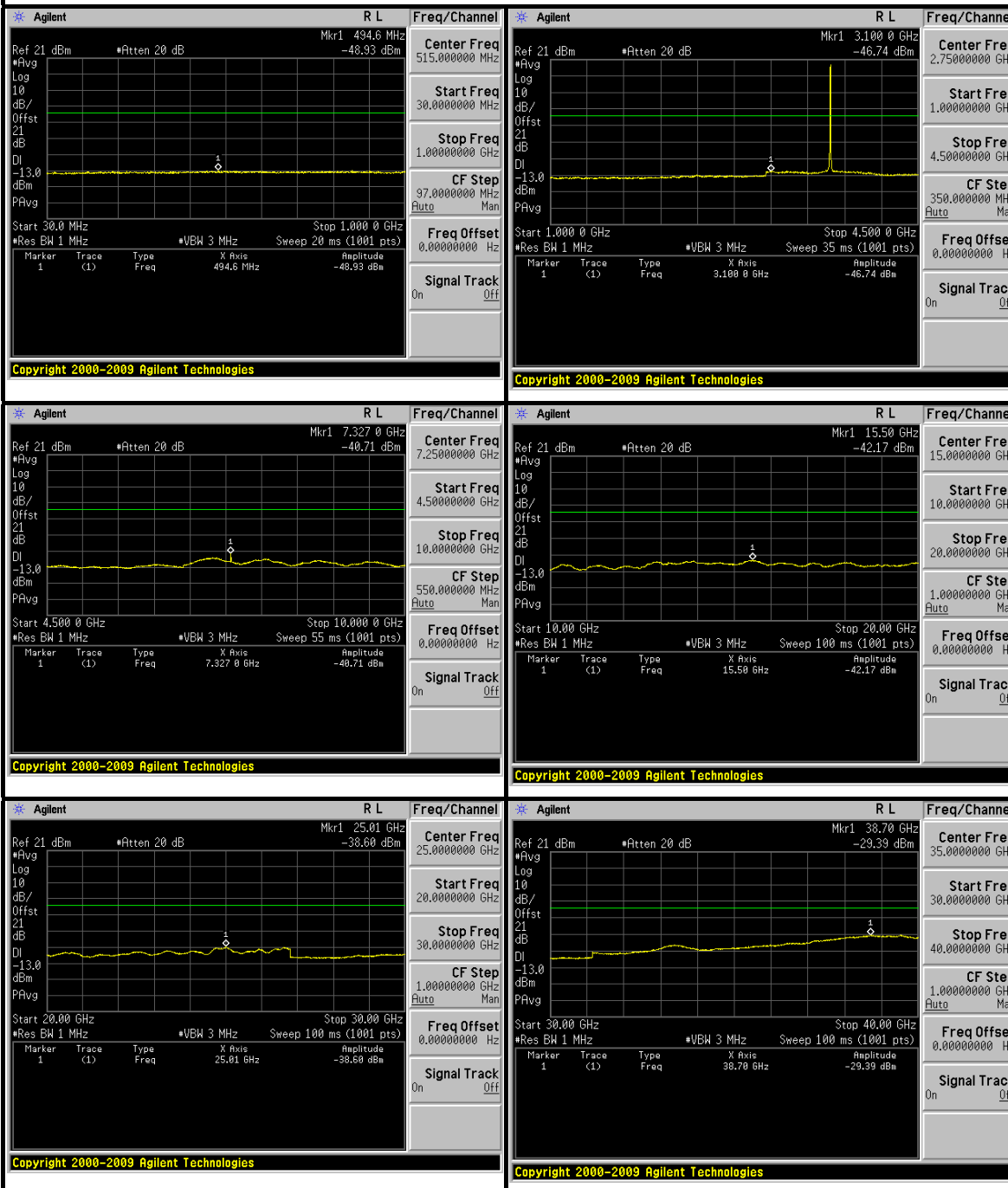




A D T

CHANNEL BANDWIDTH	3.5MHz	TEST MODE	A1
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MIDDLE CHANNEL

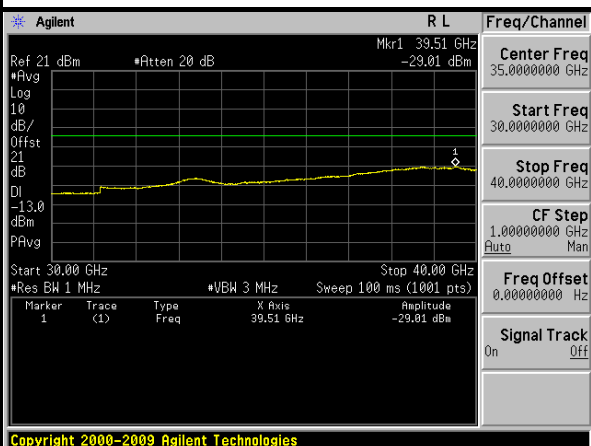
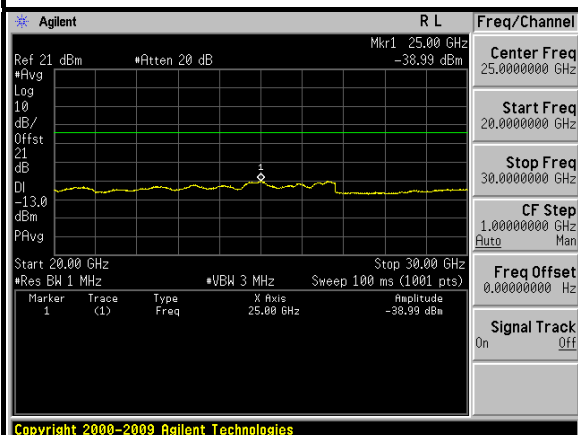
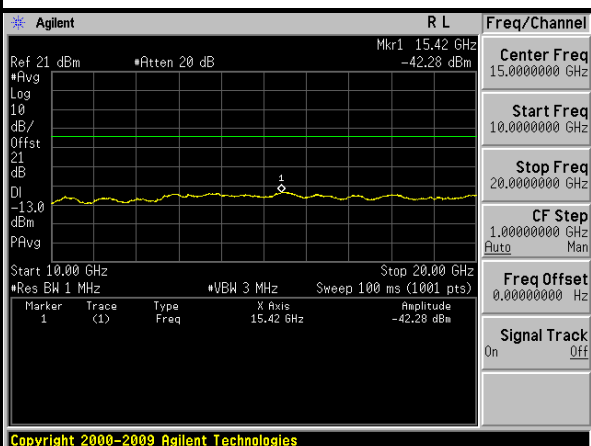
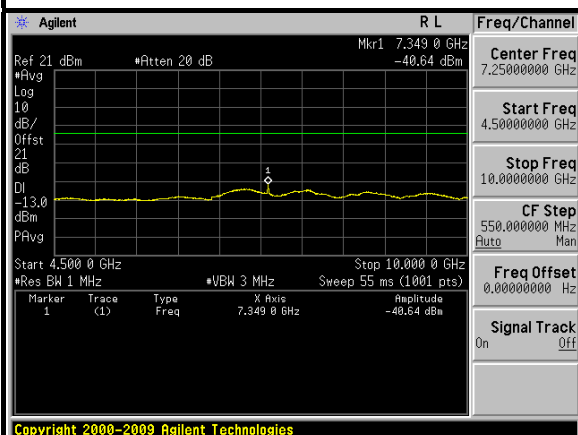
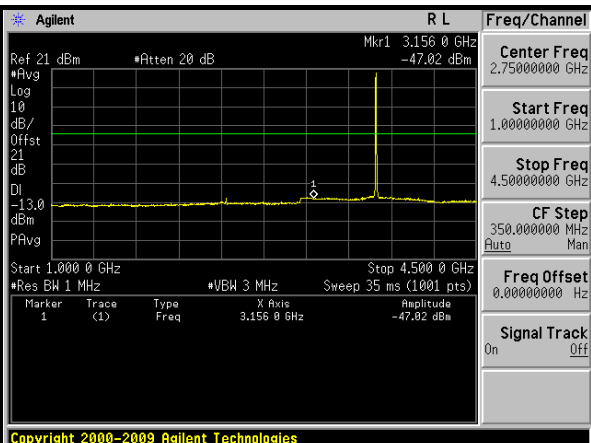
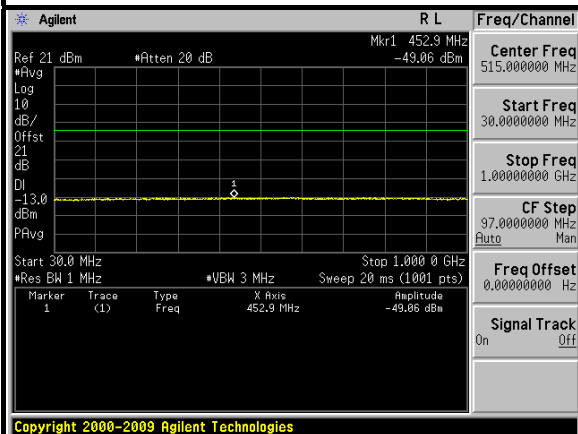




A D T

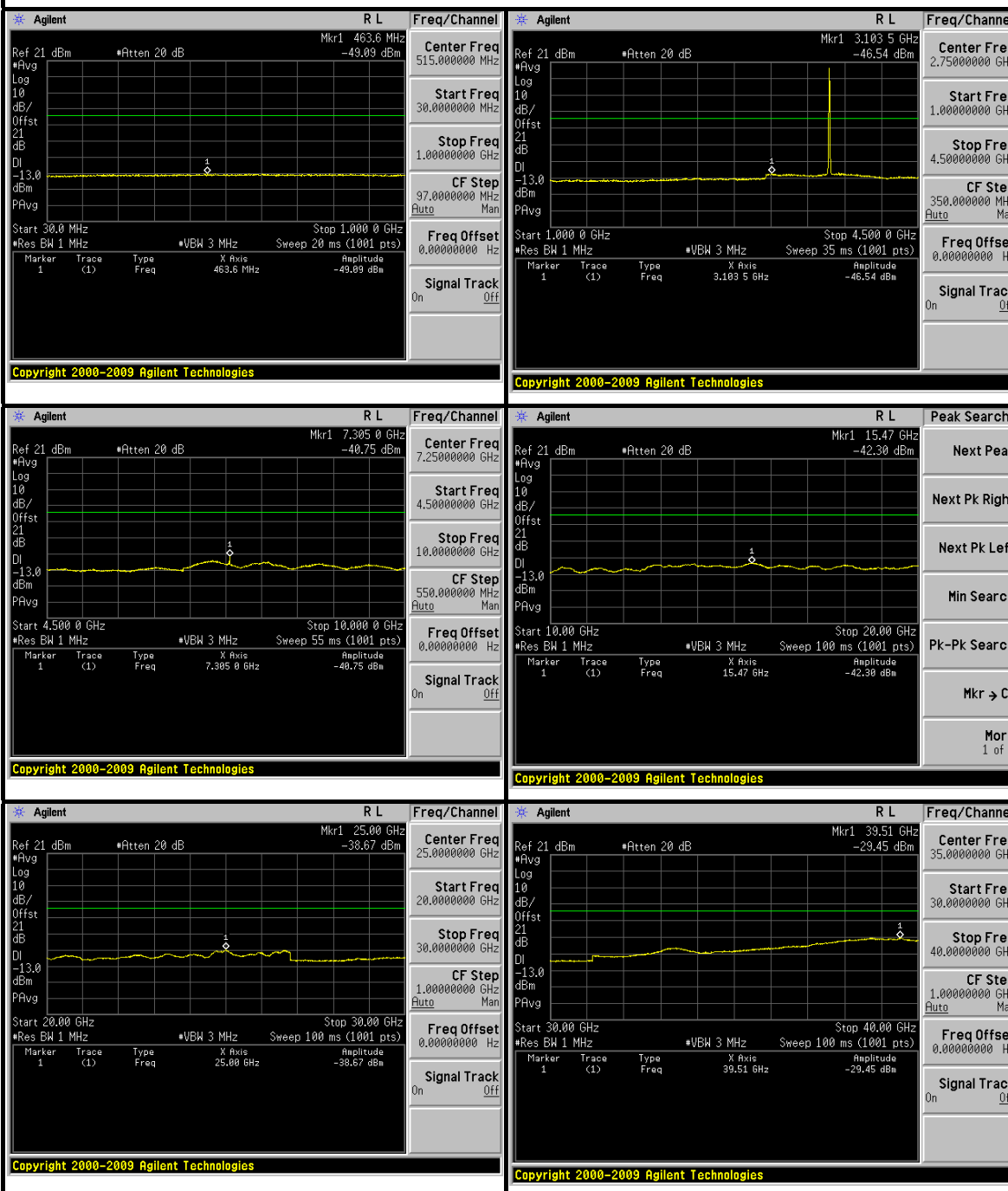
CHANNEL BANDWIDTH	3.5MHz	TEST MODE	A1
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HIGH CHANNEL



CHANNEL BANDWIDTH	5.0MHz	TEST MODE	A1
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LOW CHANNEL

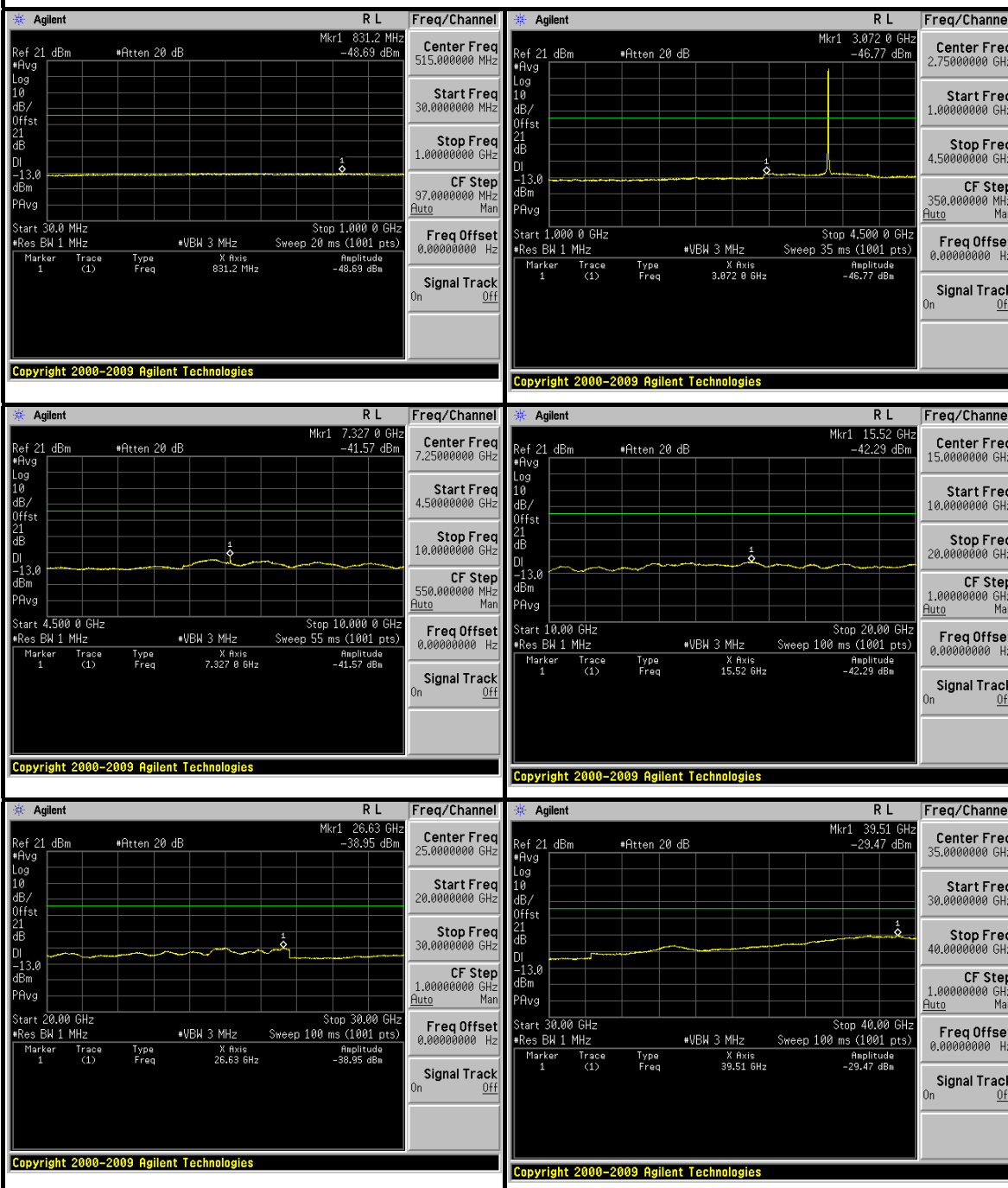




A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	A1
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MIDDLE CHANNEL

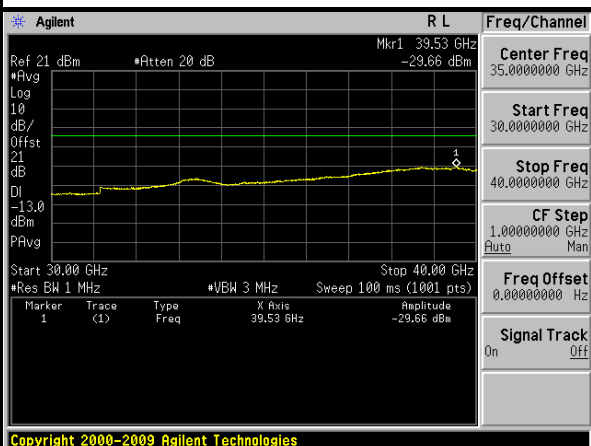
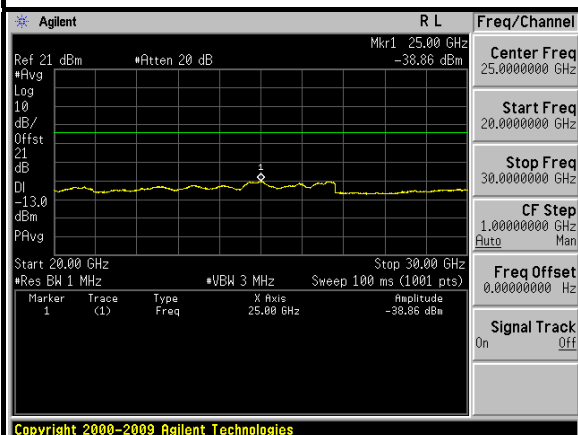
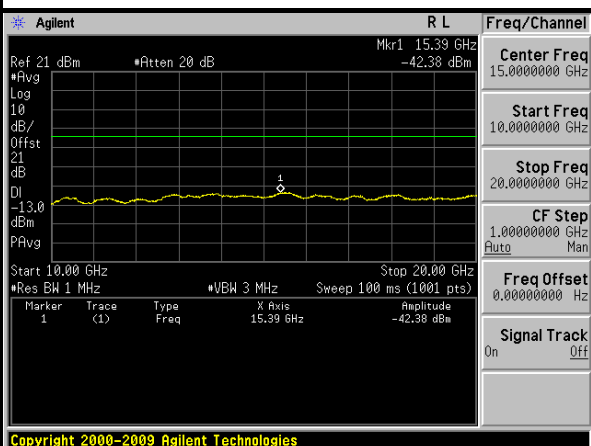
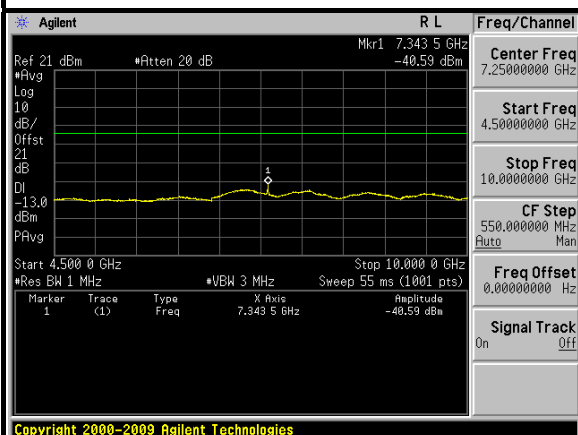
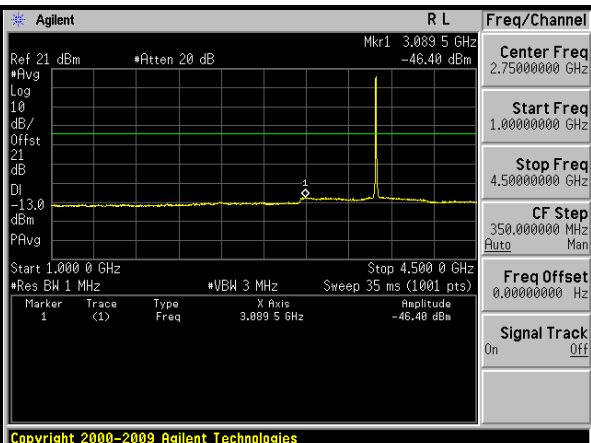
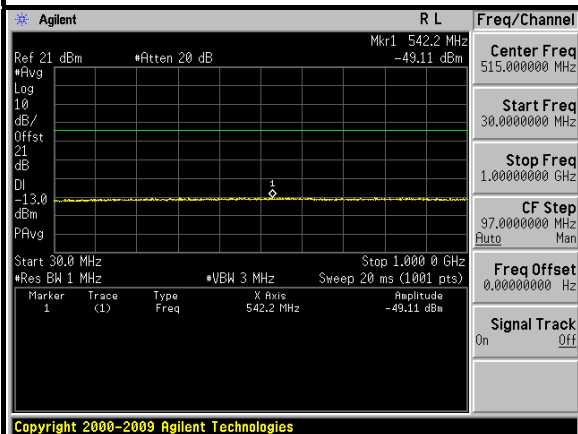




A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	A1
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HIGH CHANNEL

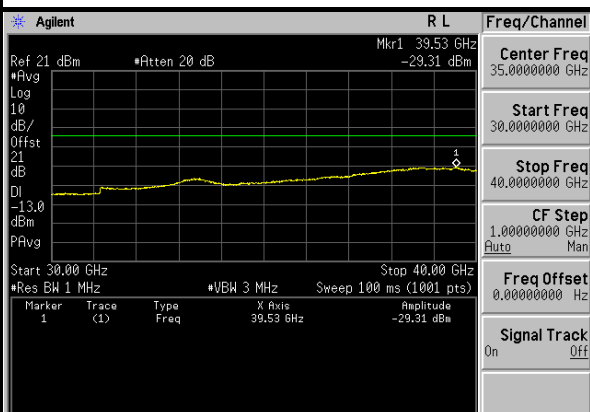
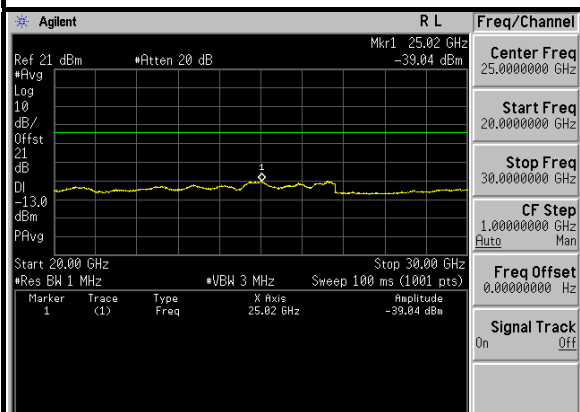
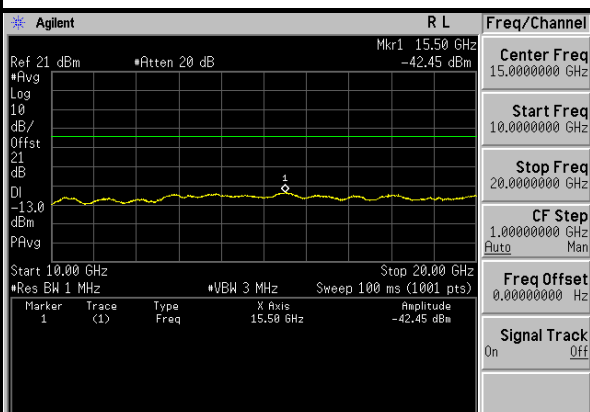
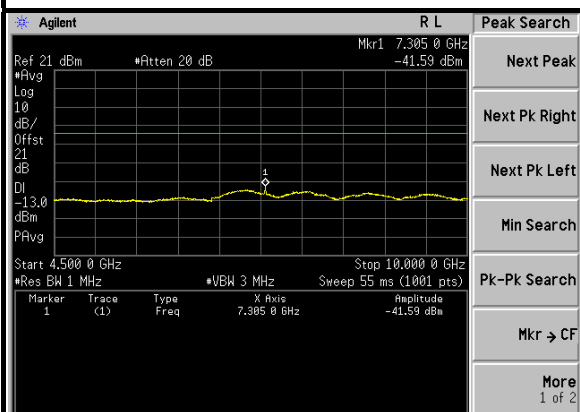
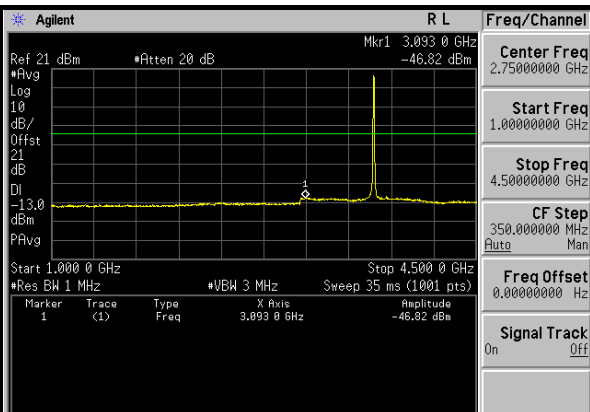
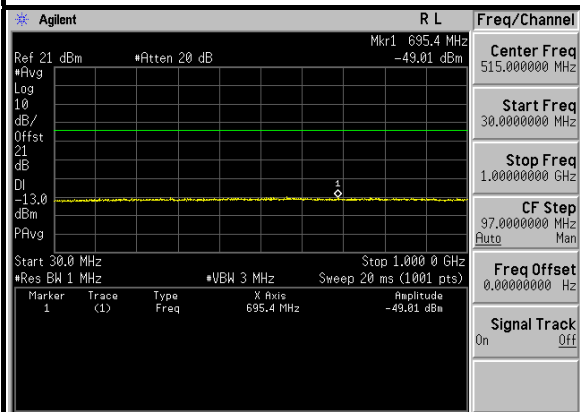




A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	A1
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LOW CHANNEL

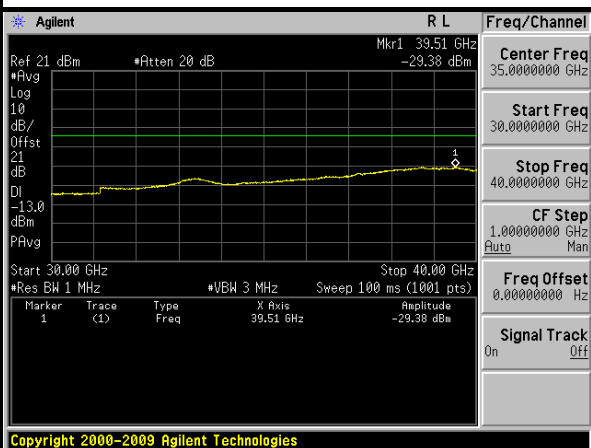
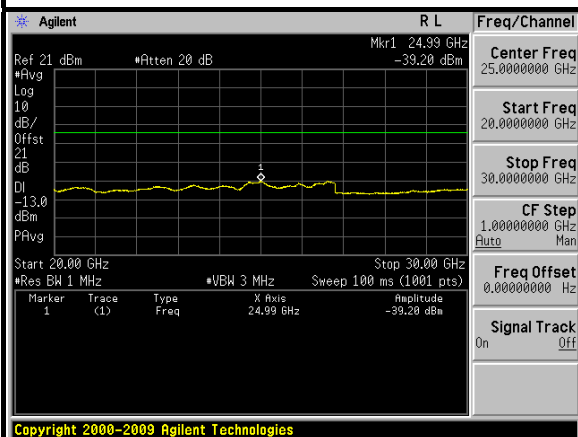
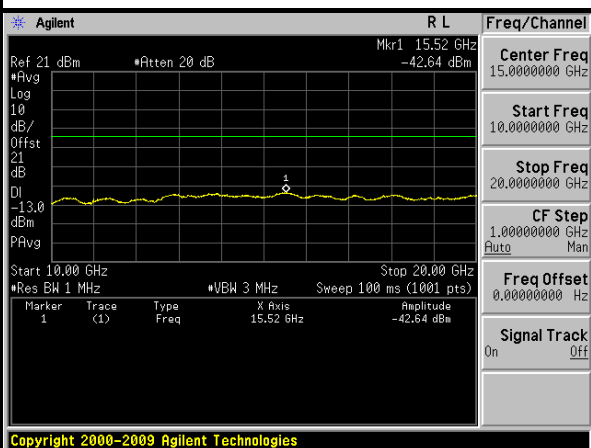
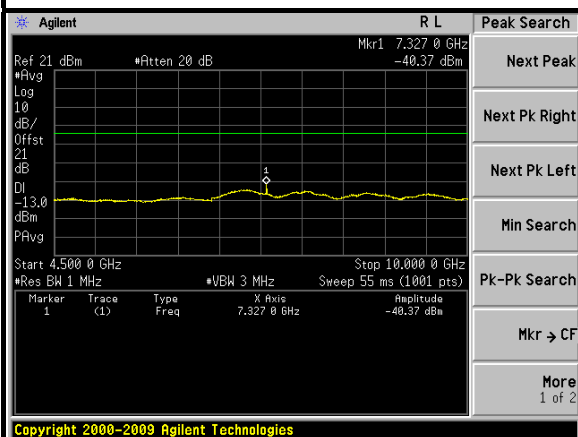
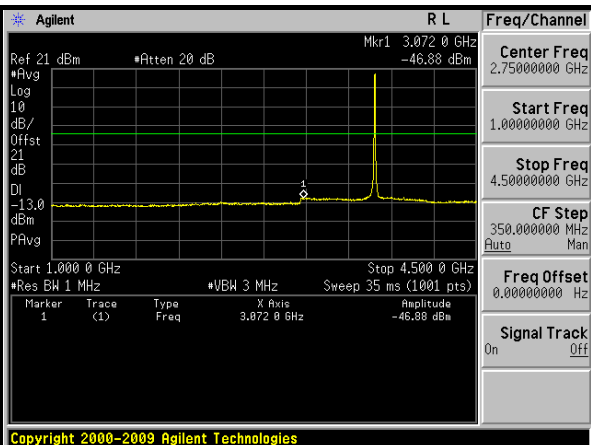
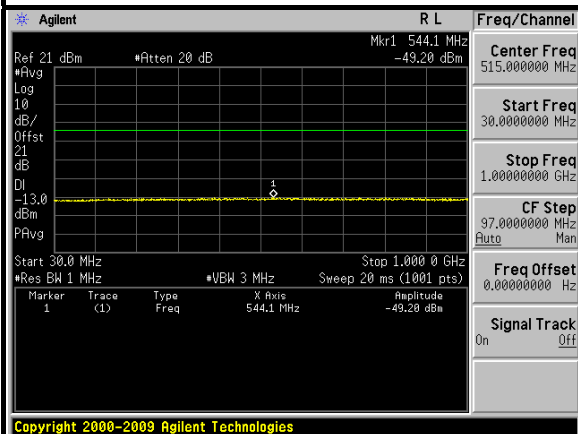




A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	A1
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MIDDLE CHANNEL

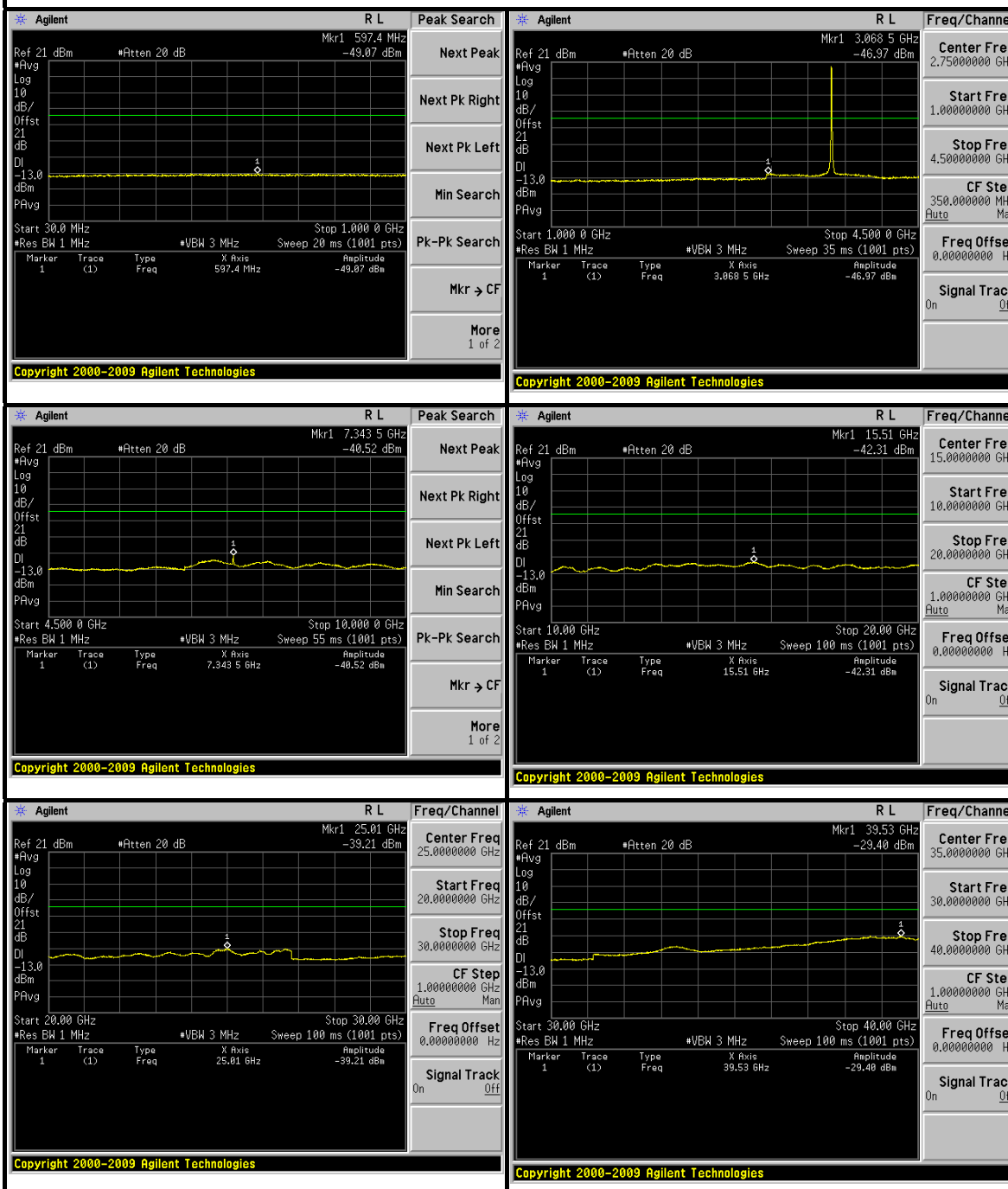




A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	A1
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HIGH CHANNEL

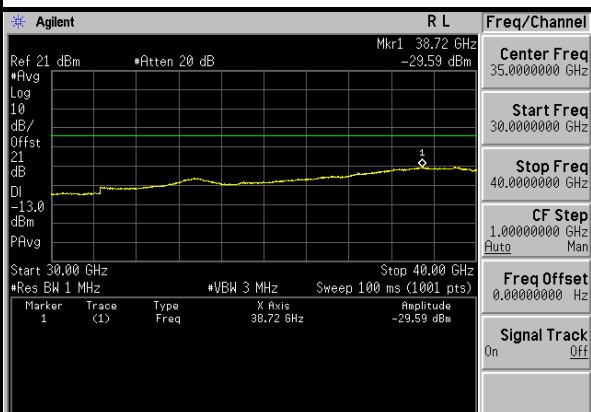
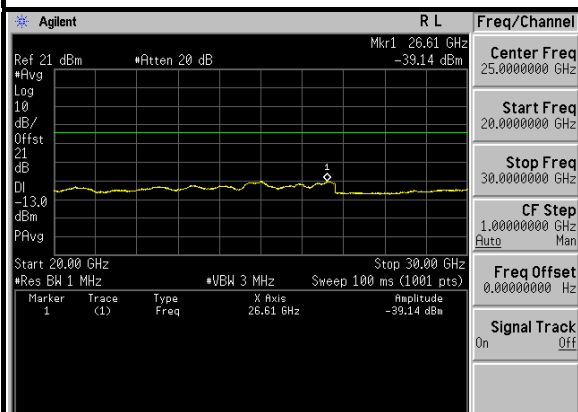
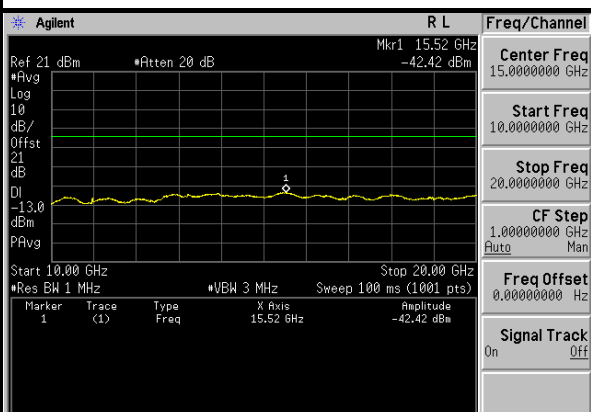
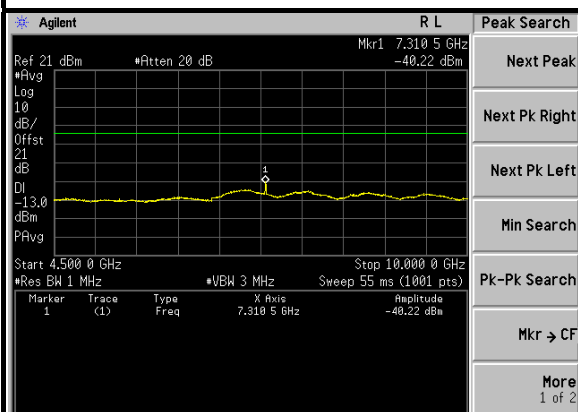
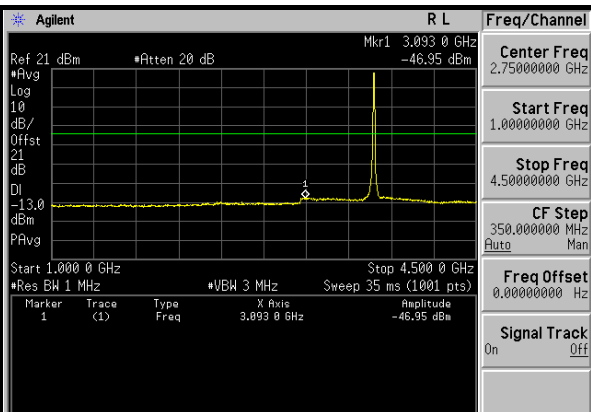
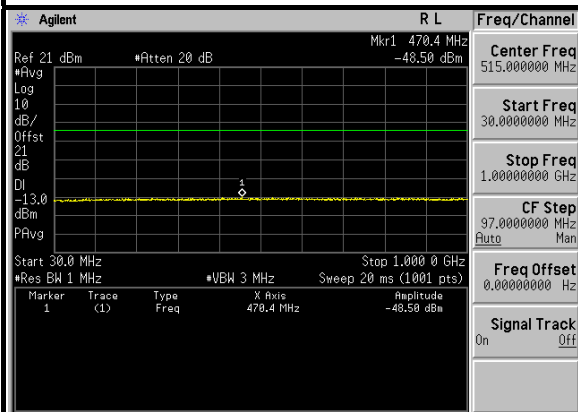




A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	A1
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LOW CHANNEL





A D T

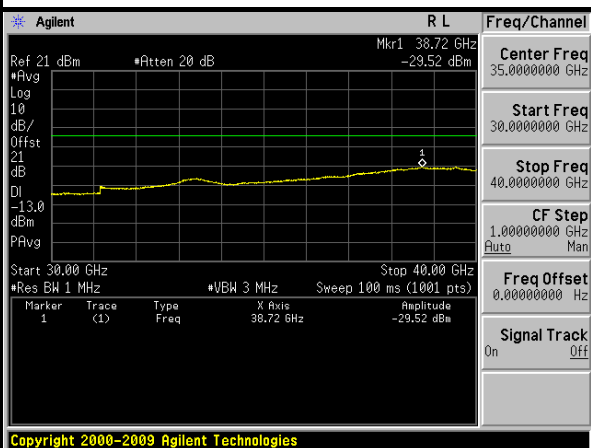
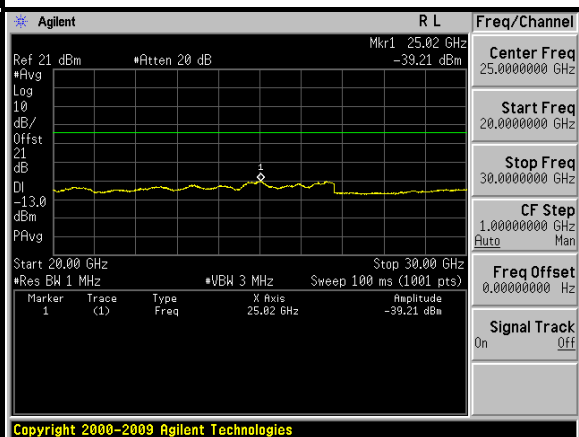
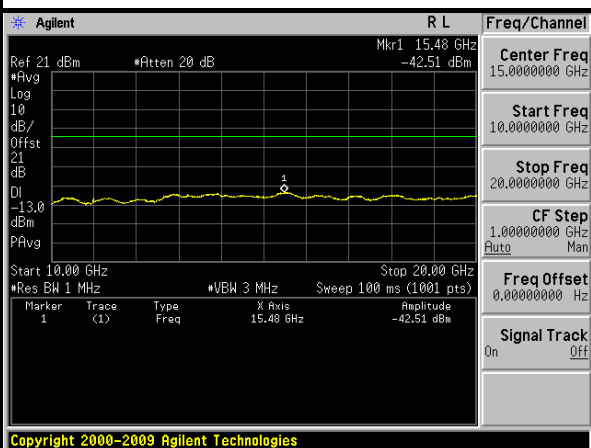
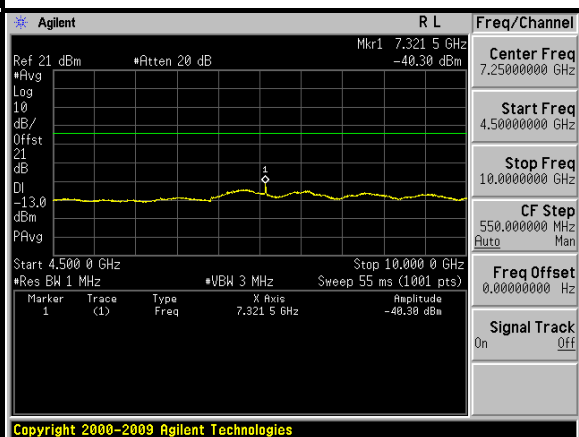
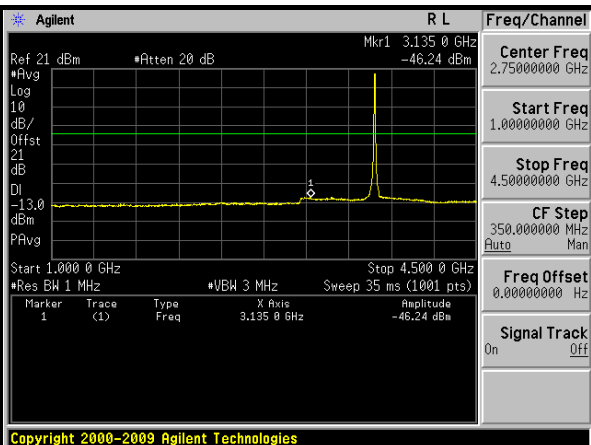
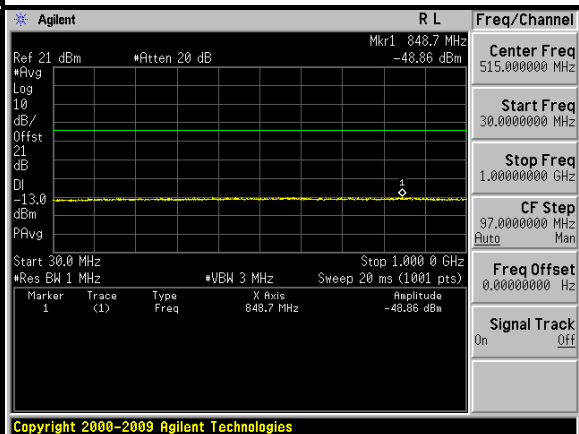
CHANNEL
BANDWIDTH

10.0MHz

TEST MODE

A1

MIDDLE CHANNEL

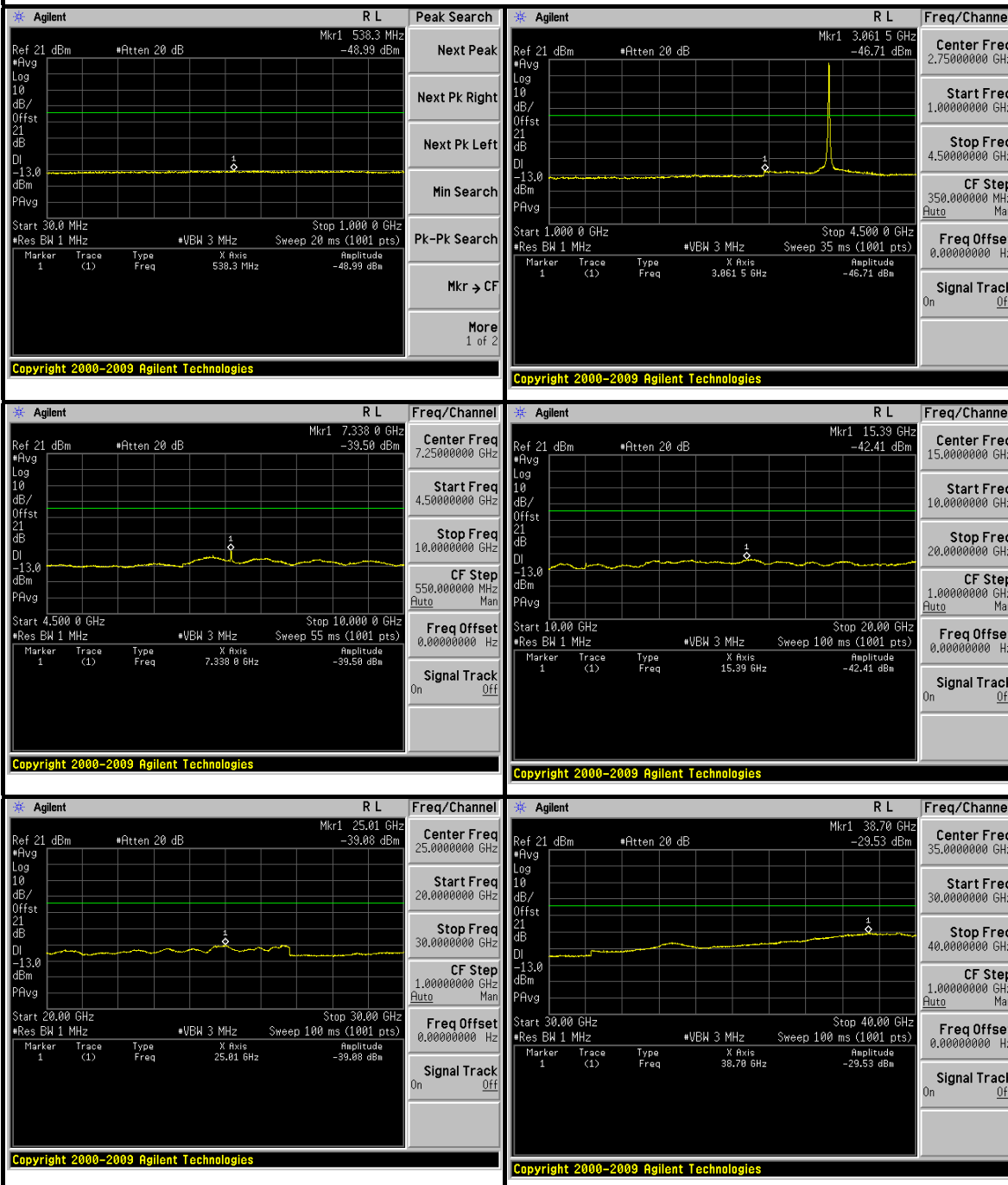




A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	A1
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HIGH CHANNEL





A D T

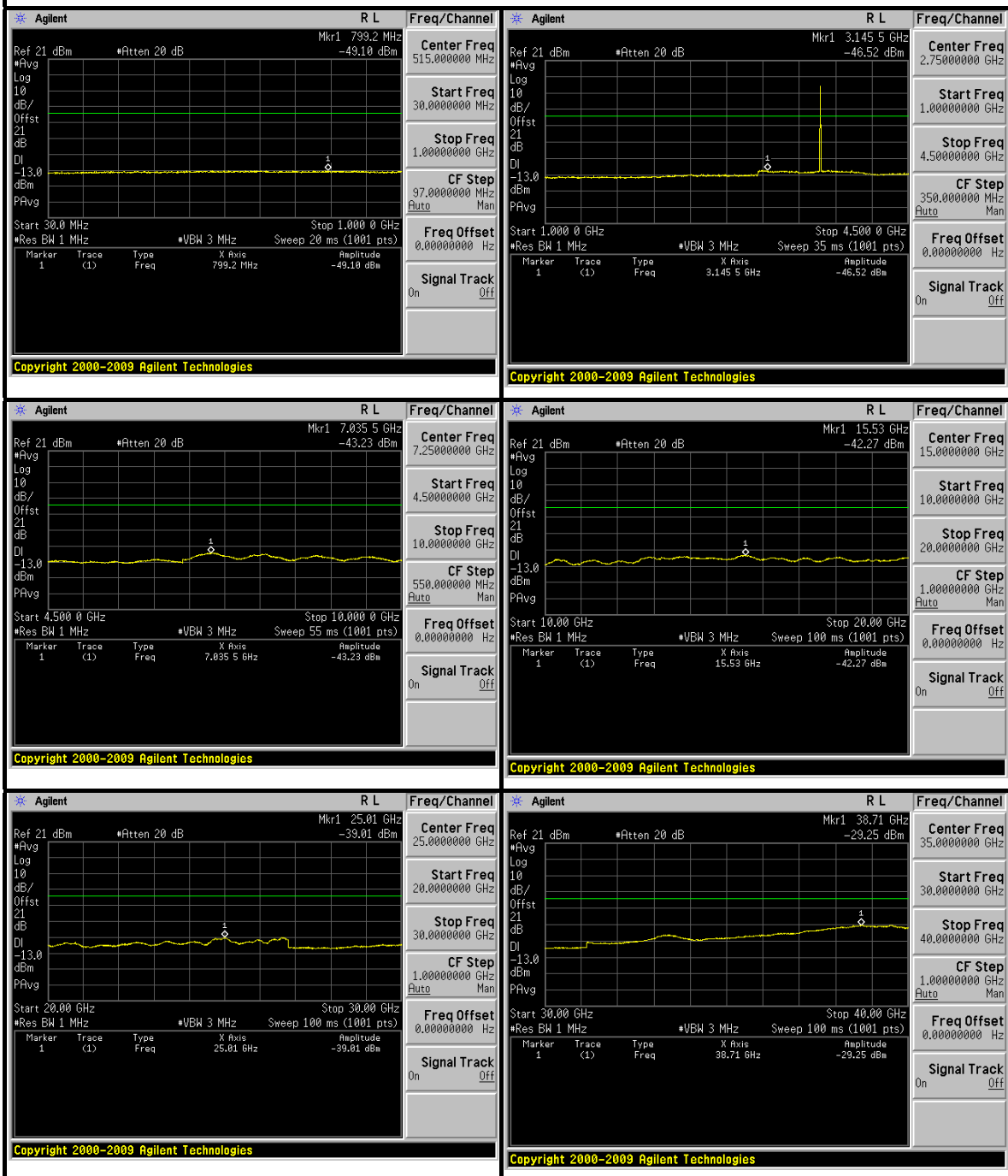
CHANNEL
BANDWIDTH

3.5MHz

TEST MODE

B1

LOW CHANNEL

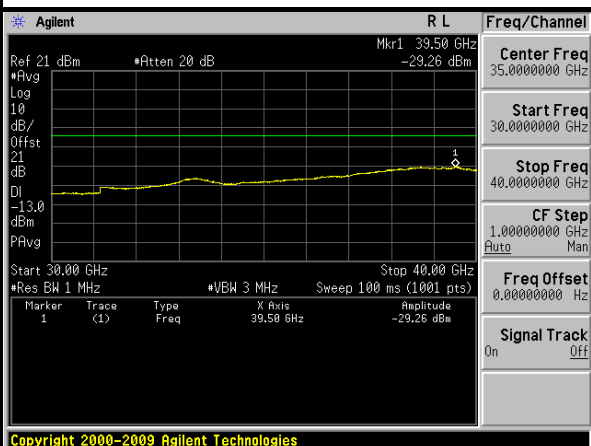
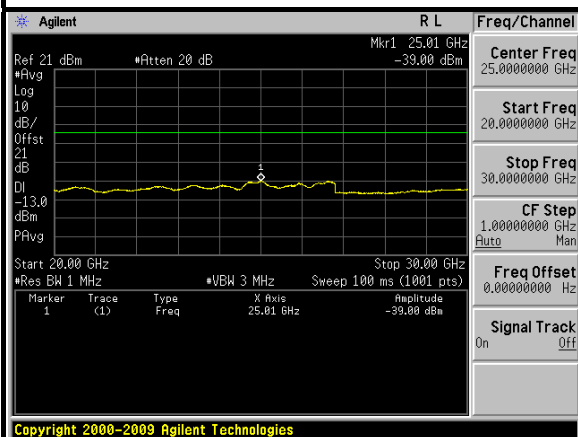
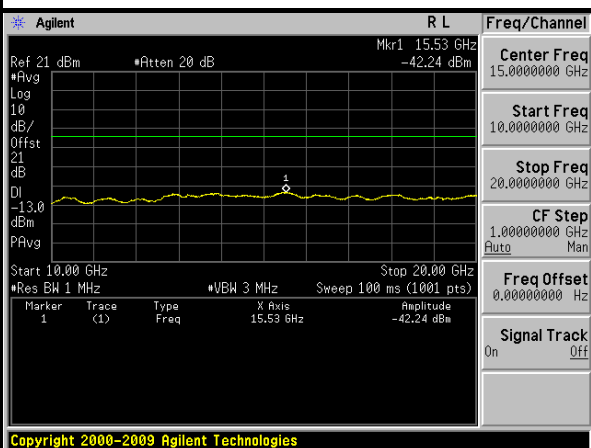
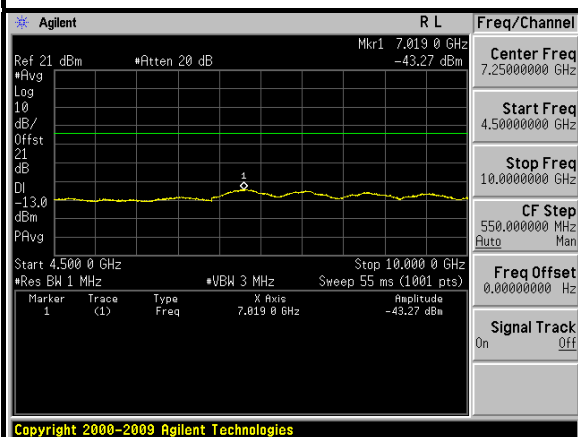
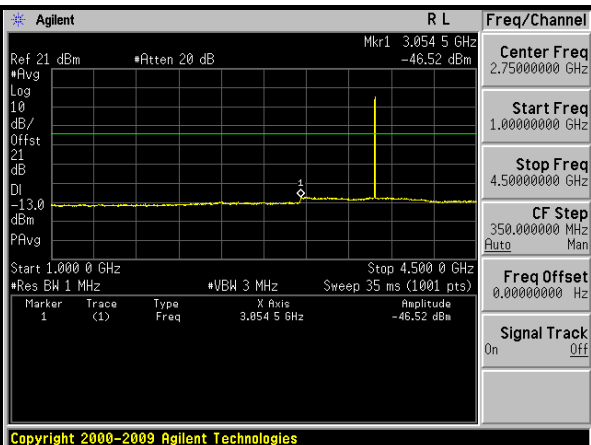
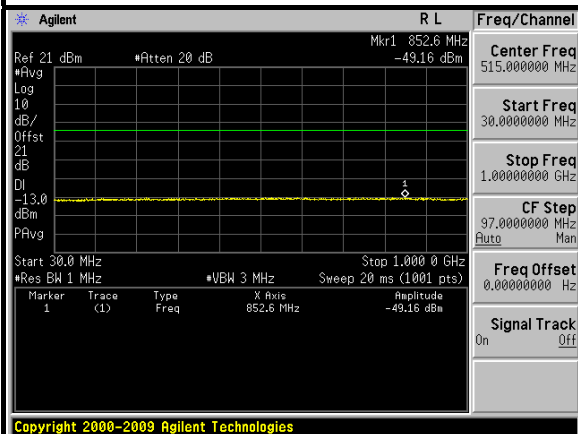




A D T

CHANNEL BANDWIDTH	3.5MHz	TEST MODE	B1
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MIDDLE CHANNEL





A D T

CHANNEL BANDWIDTH	3.5MHz	TEST MODE	B1
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HIGH CHANNEL

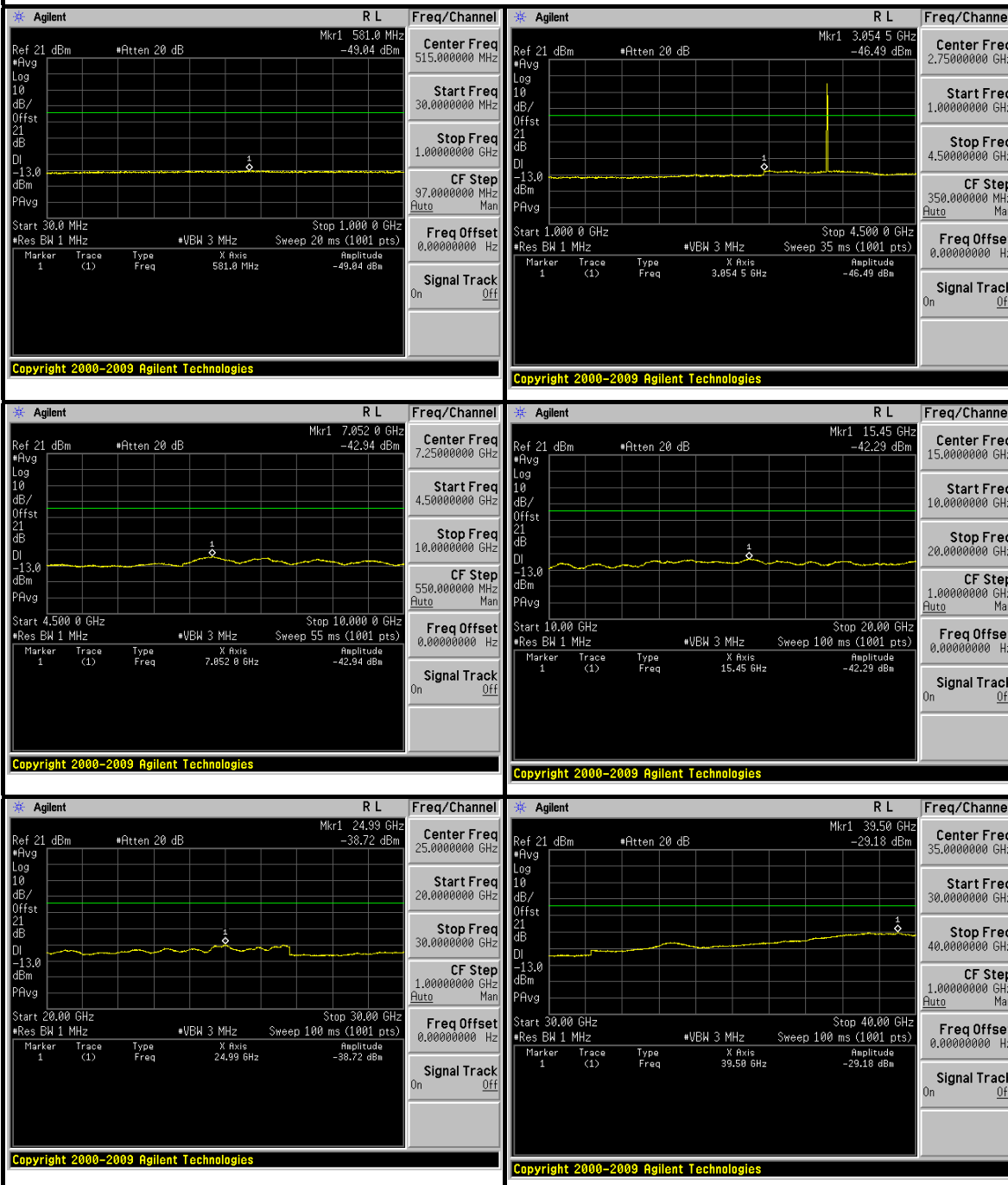




A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	B1
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LOW CHANNEL

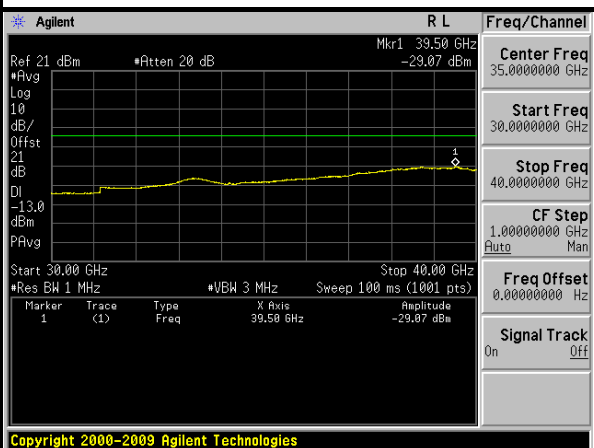
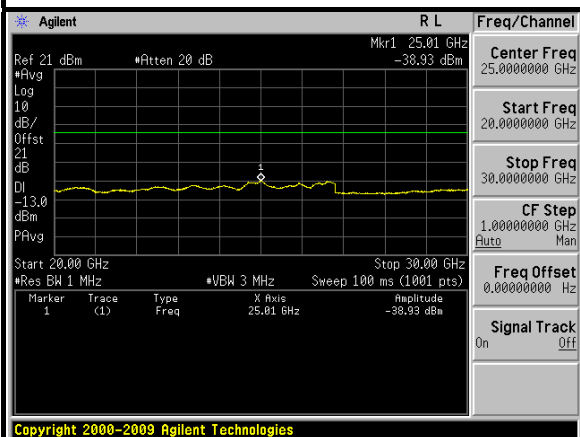
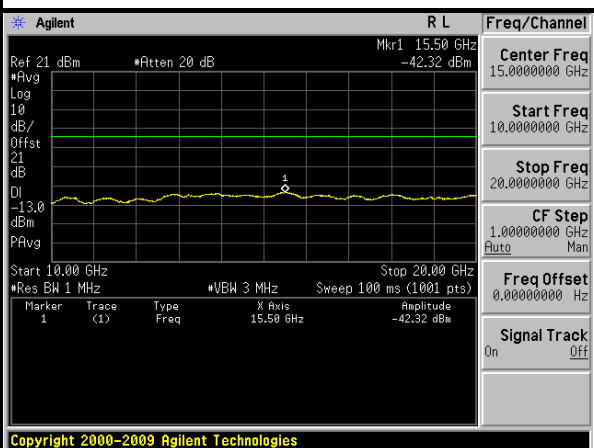
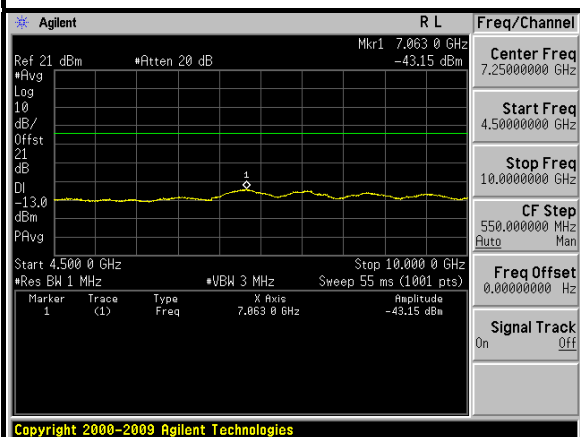
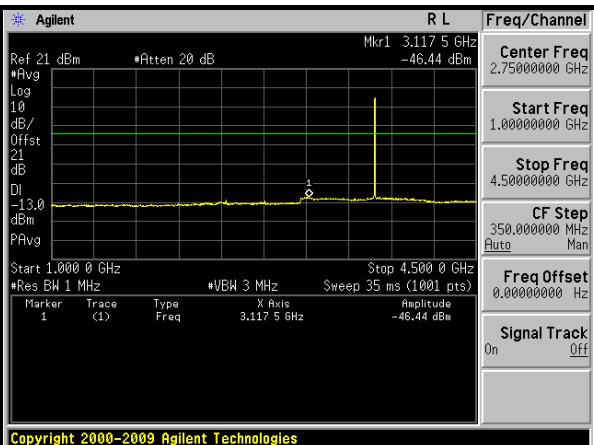
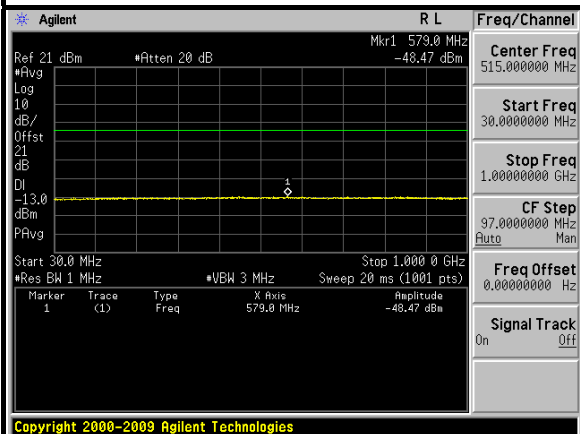




A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	B1
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MIDDLE CHANNEL

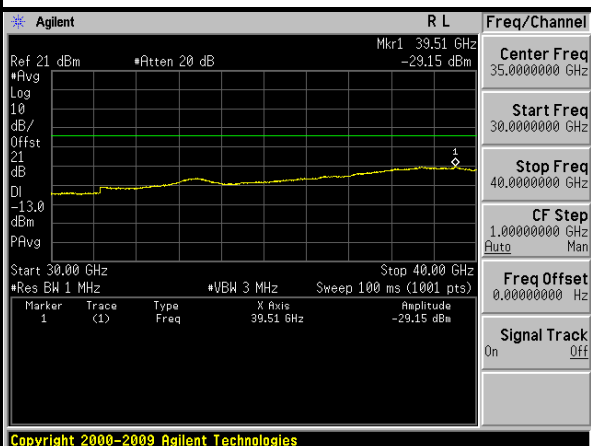
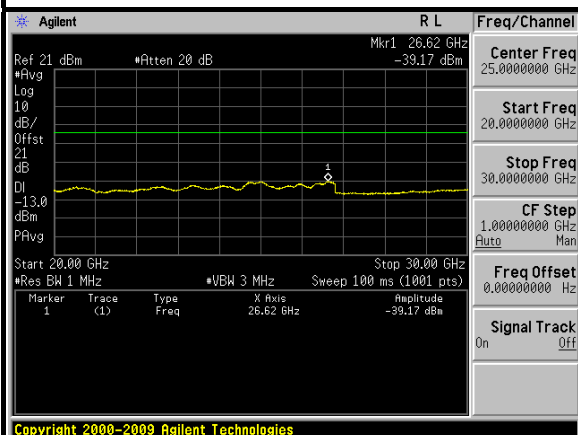
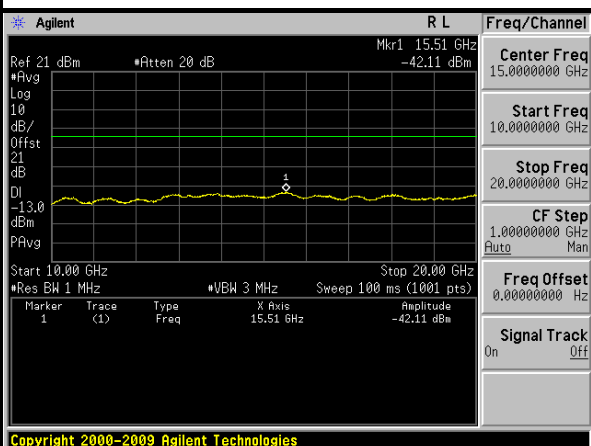
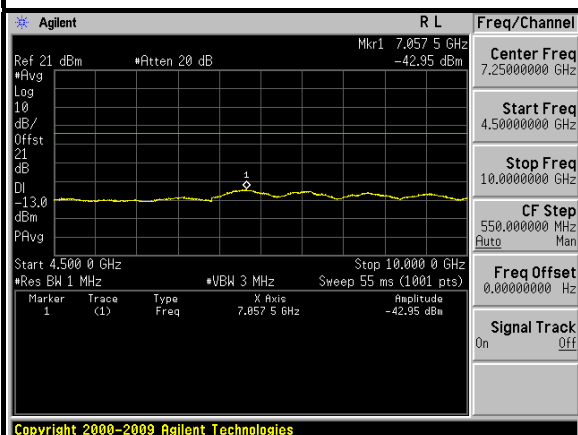
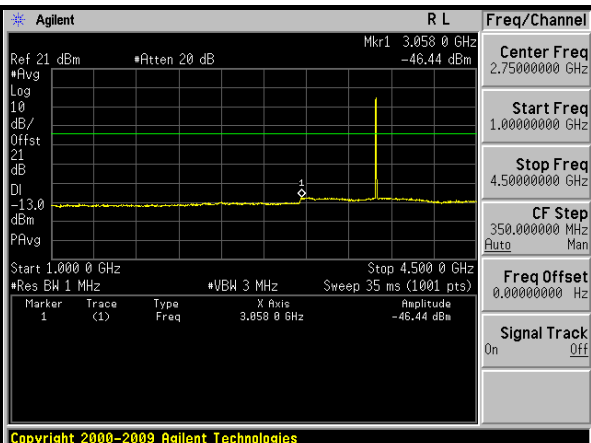
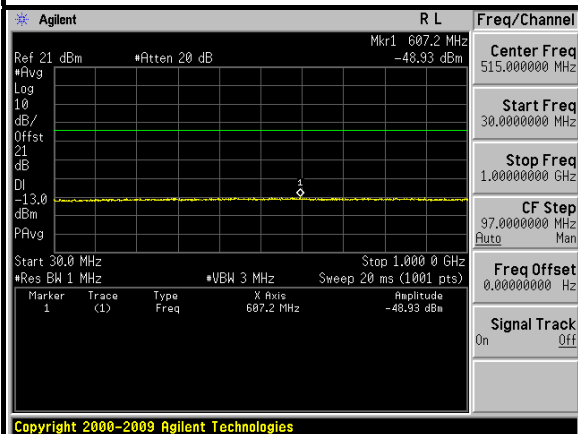




A D T

CHANNEL BANDWIDTH	5.0MHz	TEST MODE	B1
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HIGH CHANNEL

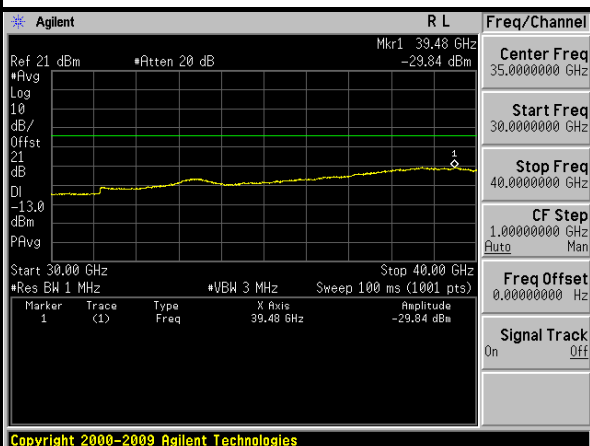
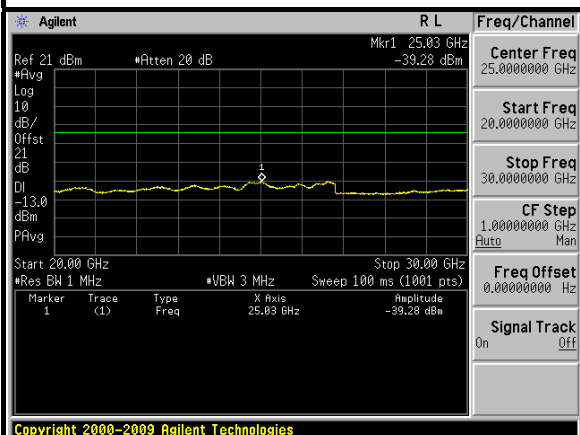
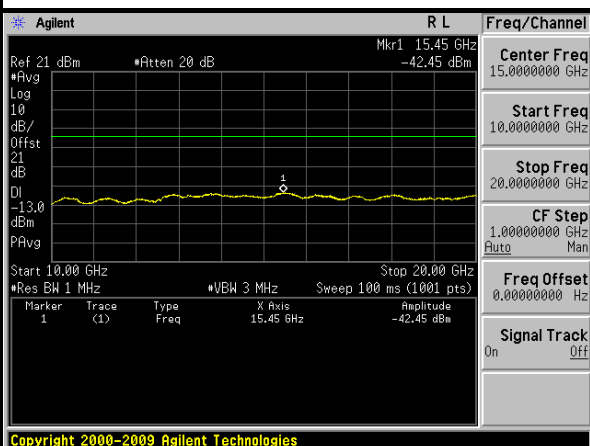
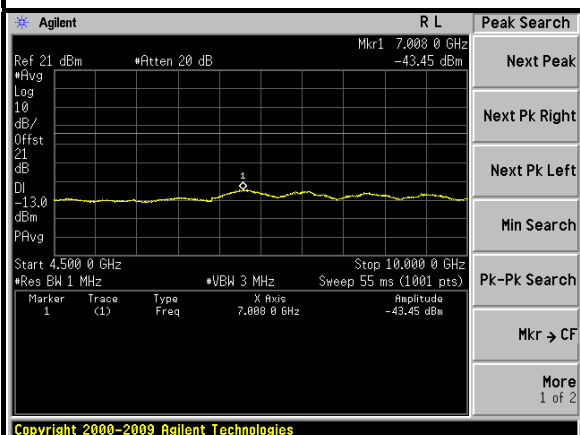
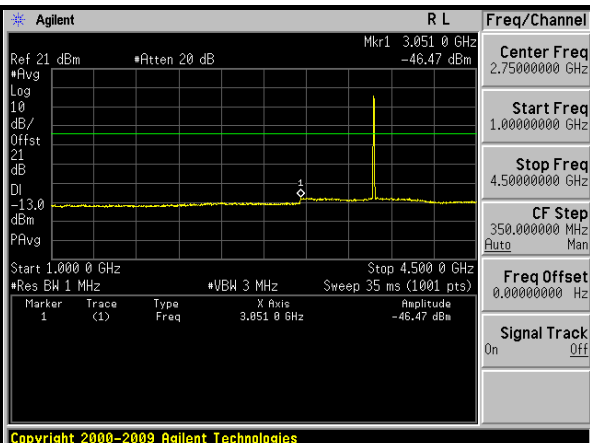
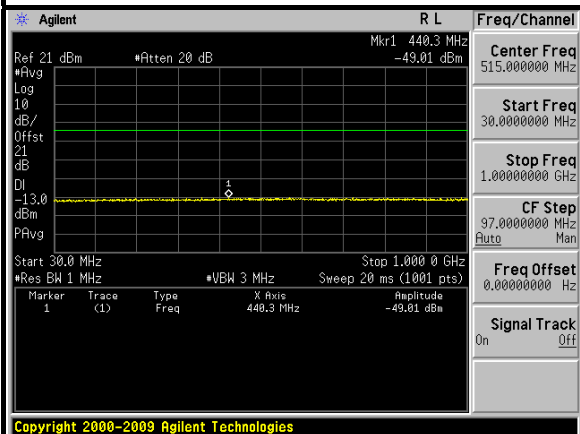




A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	B1
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LOW CHANNEL

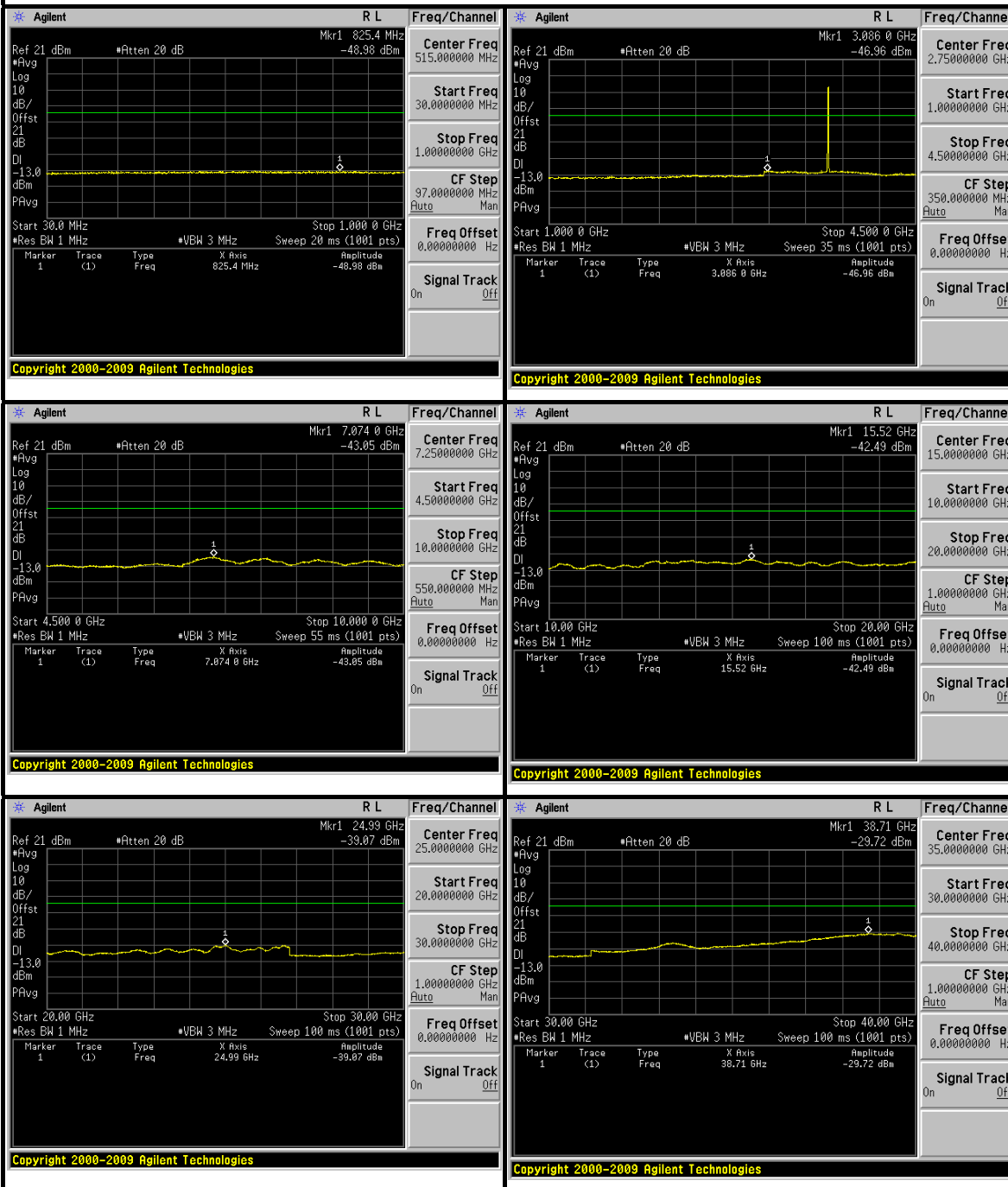




A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	B1
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MIDDLE CHANNEL

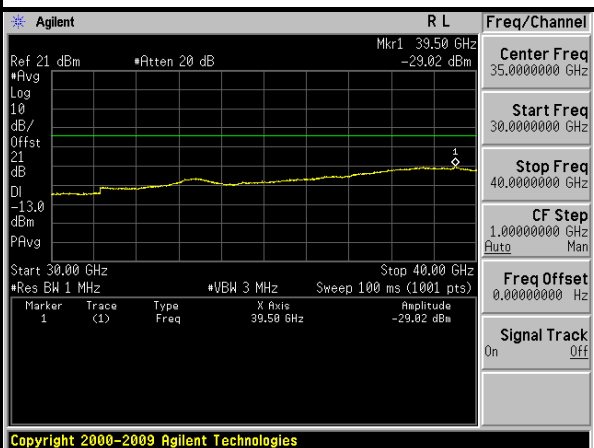
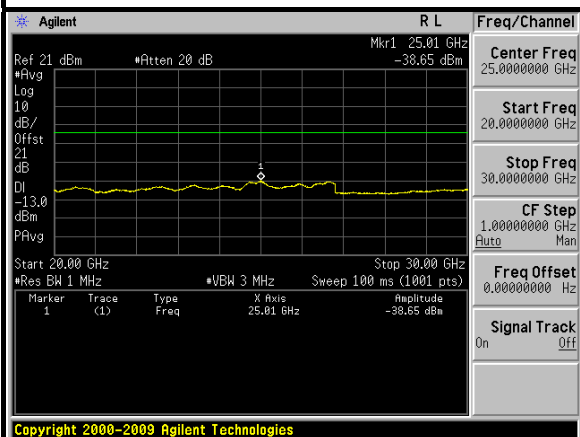
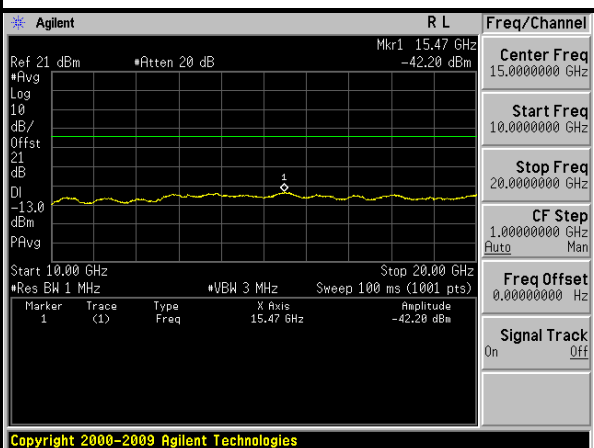
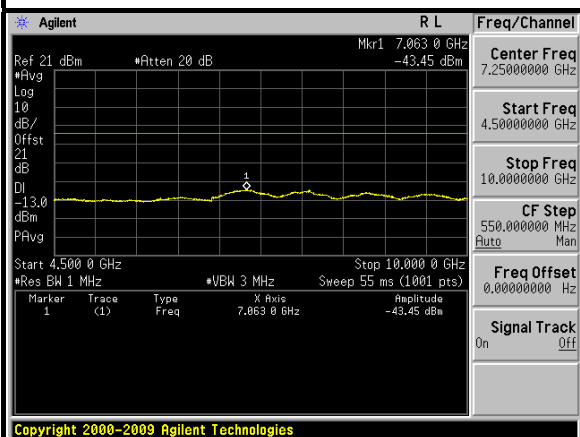
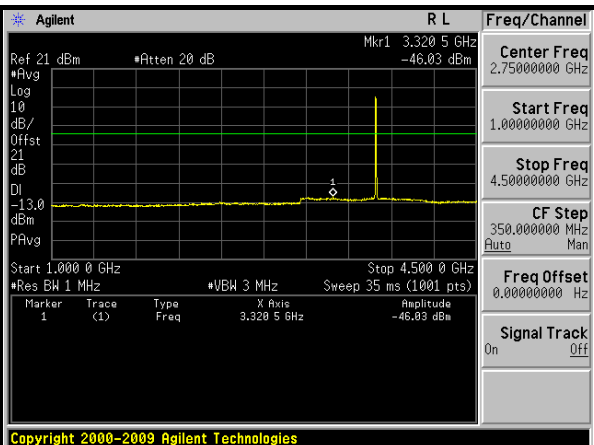
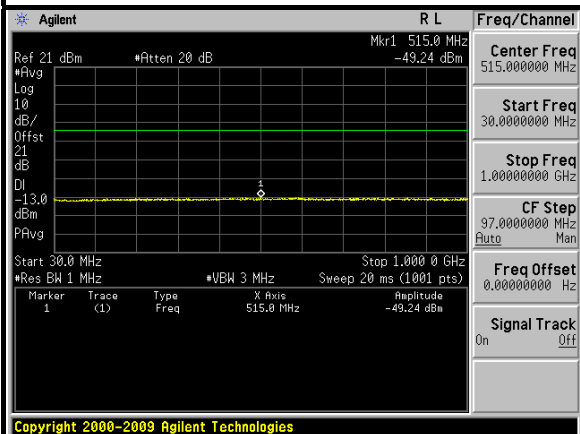




A D T

CHANNEL BANDWIDTH	7.0MHz	TEST MODE	B1
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HIGH CHANNEL

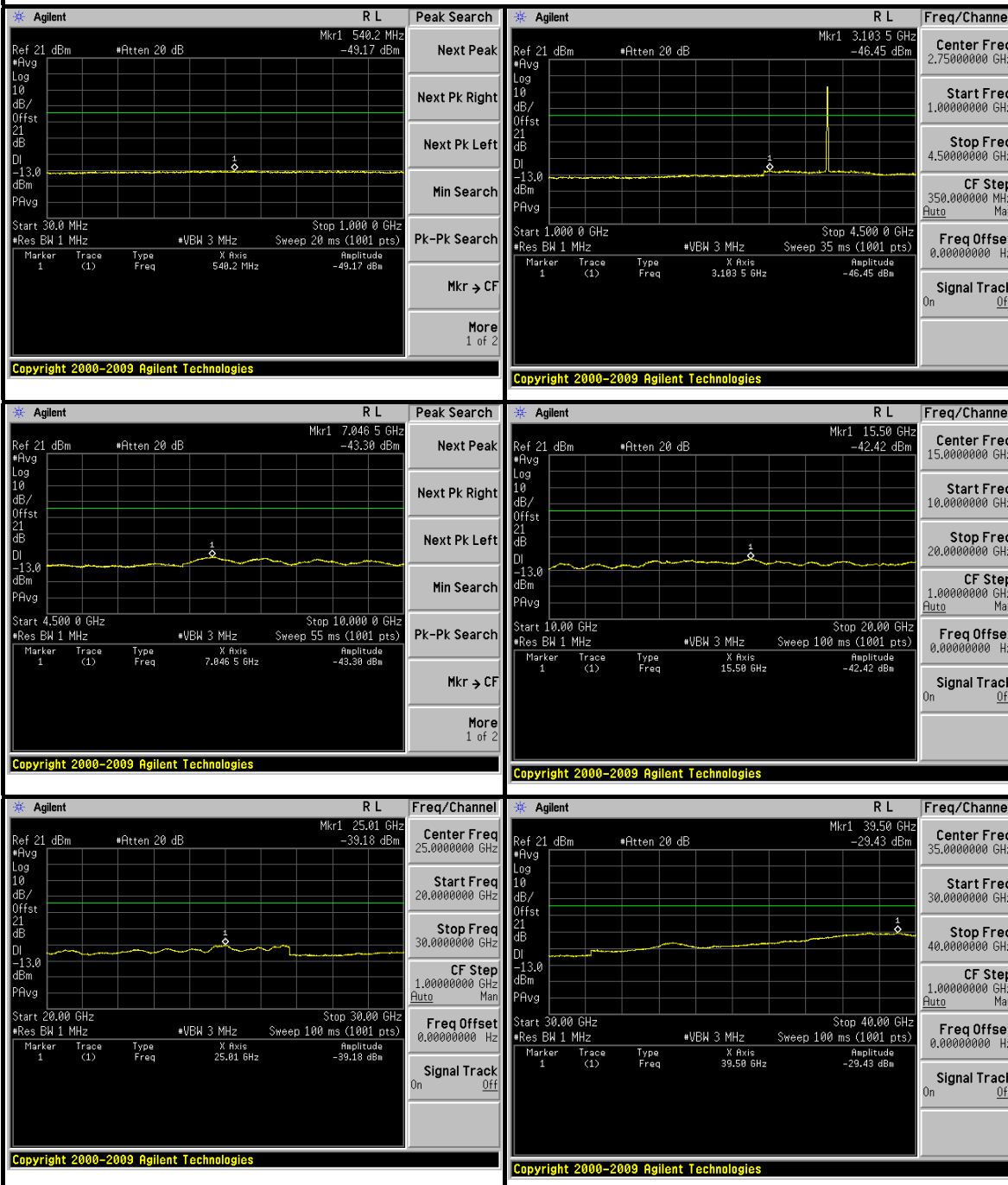




A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	B1
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LOW CHANNEL

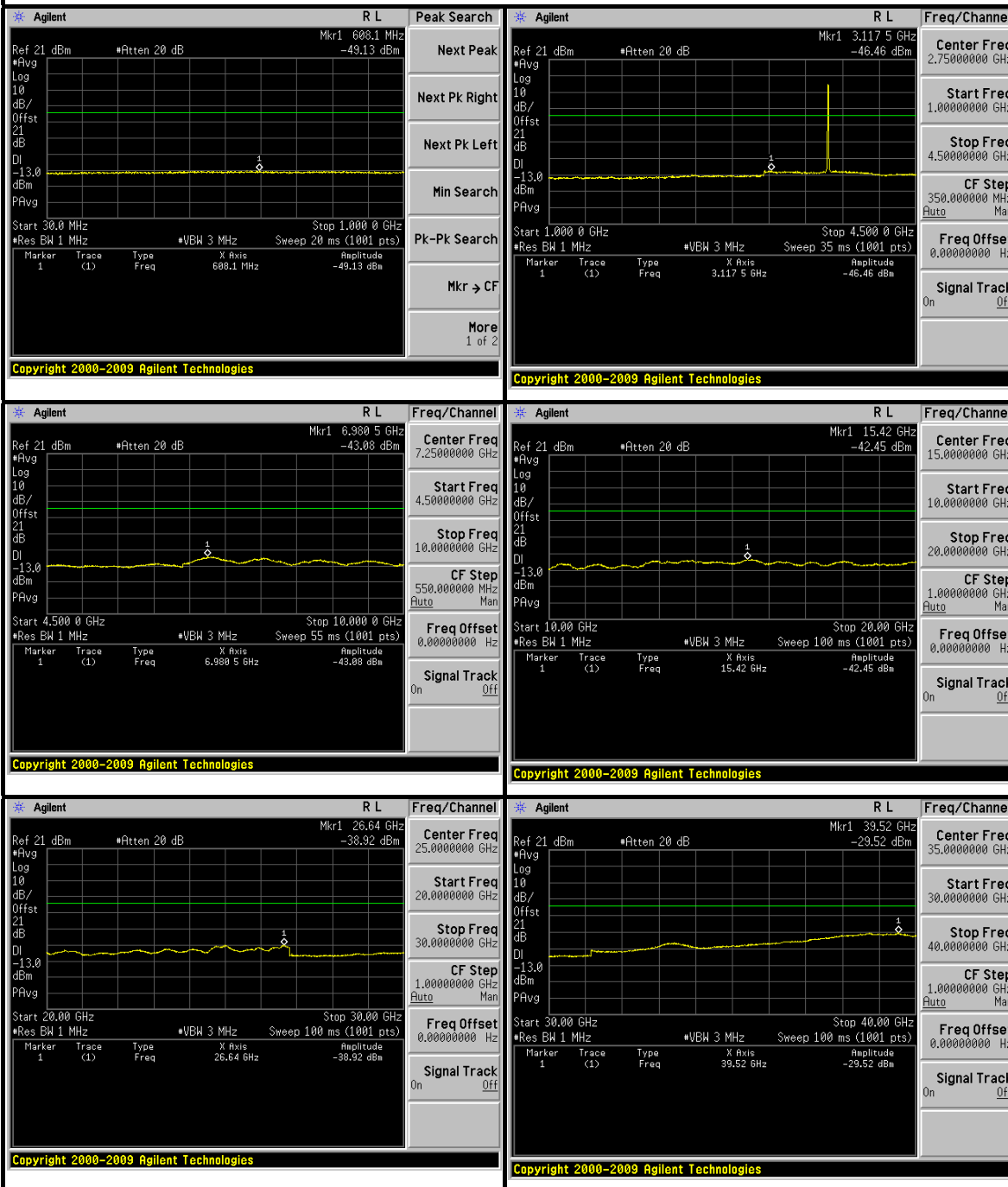




A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	B1
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MIDDLE CHANNEL

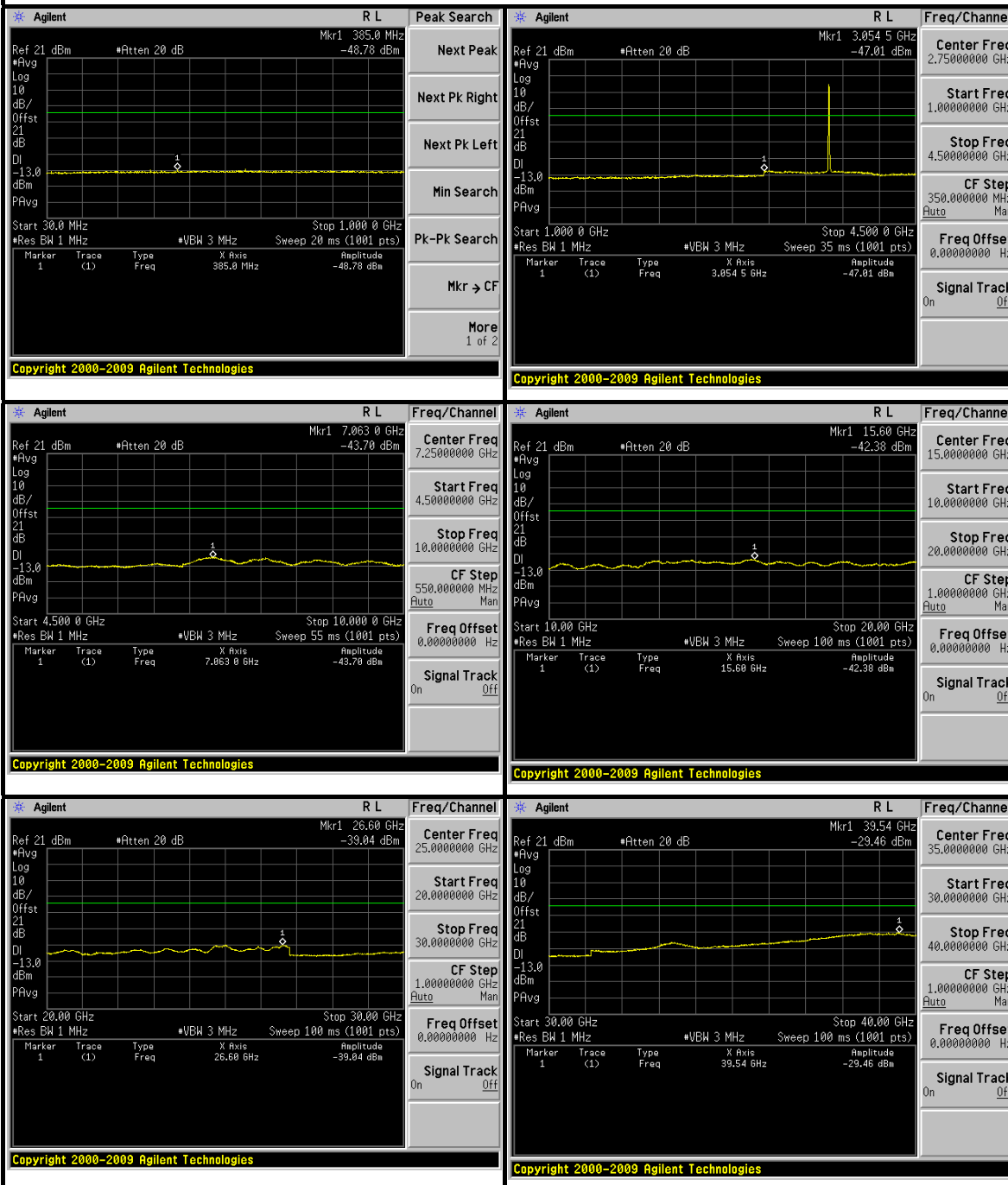




A D T

CHANNEL BANDWIDTH	10.0MHz	TEST MODE	B1
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HIGH CHANNEL



4.6 RADIATED EMISSION MEASUREMENT (BELOW 1GHz)

4.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to FCC 90.1323 specified that the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in Watts, by at least $43 + 10 \log (P)$ dB. The limit of emission equal to -13dBm Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth.

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESIB7	100188	Dec. 21, 2009	Dec. 20, 2010
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	Dec. 31, 2009	Dec. 30, 2010
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Apr. 27, 2010	Apr. 26, 2011
HORN Antenna SCHWARZBECK	9120D	9120D-405	Feb. 03, 2010	Feb. 02, 2011
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Dec. 25, 2009	Dec. 24, 2010
Preamplifier Agilent	8447D	2944A10633	Nov. 10, 2009	Nov. 09, 2010
Preamplifier Agilent	8449B	3008A01964	Nov. 09, 2009	Nov. 08, 2010
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	238141/4	May 14, 2010	May 13, 2011
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	12738/6	May 14, 2010	May 13, 2011
Software ADT.	ADT_Radiated_ V7.6.15.9.2	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	013303	NA	NA
Antenna Tower Controller inn-co GmbH	CO2000	017303	NA	NA
Turn Table ADT.	TT100.	TT93021703	NA	NA
Turn Table Controller ADT.	SC100.	SC93021703	NA	NA

- NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in HwaYa Chamber 3.
3. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
4. The FCC Site Registration No. is 988962.
5. The IC Site Registration No. is IC 7450F-3.

4.6.3 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a tx cable . Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value “ of step a. Record the power level of S.G

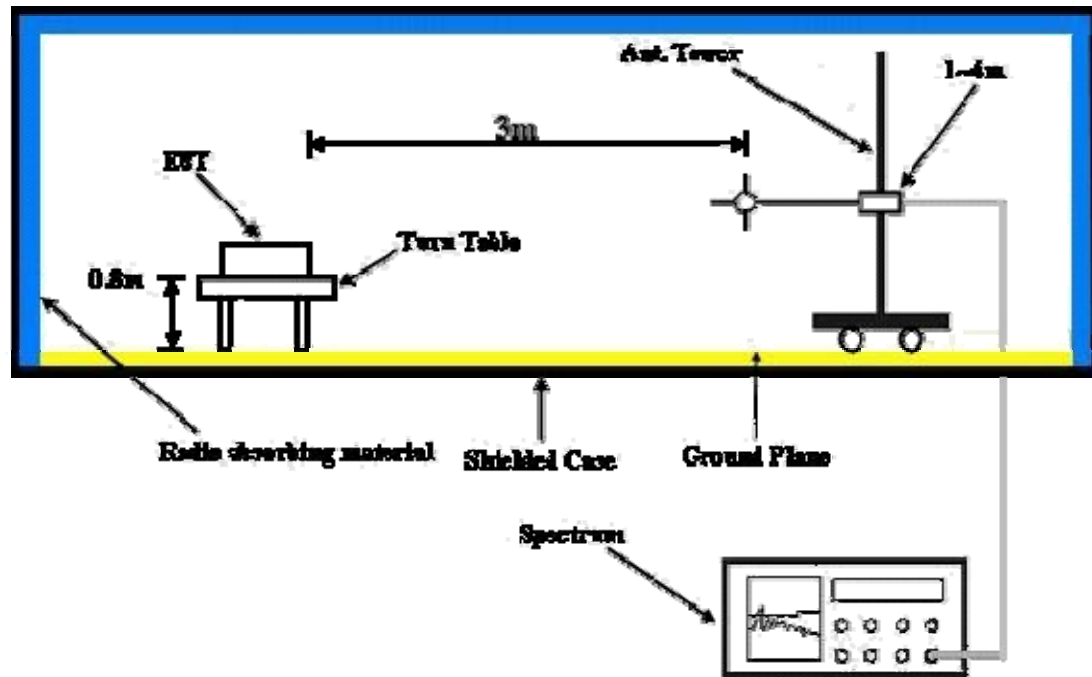
EIRP = Output power level of S.G – TX cable loss + Antenna gain of Substitution antenna

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

4.6.6 EUT OPERATING CONDITIONS

Same as 4.1.5.

4.6.7 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

MODE	High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	105.81	48.9	-13.0	-37.4	-7.7	-45.1
2	148.58	54.6	-13.0	-32.2	-7.7	-39.9
3	284.65	50.2	-13.0	-36.9	-7.7	-44.6
4	500.42	31.8	-13.0	-55.0	-7.8	-62.8
5	685.09	35.5	-13.0	-50.9	-7.8	-58.7
6	875.59	37.0	-13.0	-49.3	-7.9	-57.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	51.38	50.5	-13.0	-36.4	-7.7	-44.1
2	107.76	53.4	-13.0	-33.6	-7.7	-41.3
3	138.86	51.2	-13.0	-35.5	-7.7	-43.2
4	288.54	42.6	-13.0	-43.6	-7.8	-51.4
5	708.42	35.5	-13.0	-51.0	-7.9	-58.9
6	924.19	37.5	-13.0	-49.3	-7.9	-57.2

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	A2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	150.52	49.6	-13.0	-36.5	-7.7	-44.2
2	239.94	48.9	-13.0	-37.6	-7.7	-45.3
3	290.48	49.9	-13.0	-37.1	-7.8	-44.9
4	444.05	41.0	-13.0	-45.4	-7.8	-53.2
5	558.74	43.3	-13.0	-43.3	-7.8	-51.1
6	733.69	44.5	-13.0	-42.1	-7.9	-50.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	51.38	48.6	-13.0	-38.3	-7.7	-46.0
2	138.86	48.6	-13.0	-38.1	-7.7	-45.8
3	288.54	43.6	-13.0	-43.4	-7.7	-51.1
4	570.40	41.8	-13.0	-44.9	-7.8	-52.7
5	663.71	42.2	-13.0	-44.2	-7.8	-52.0
6	865.87	42.8	-13.0	-43.8	-7.9	-51.7

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	A3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	47.6	-13.0	-39.5	-7.7	-47.2
2	107.76	50.0	-13.0	-36.8	-7.7	-44.5
3	148.58	53.5	-13.0	-33.1	-7.7	-40.8
4	234.11	48.0	-13.0	-38.4	-7.7	-46.1
5	716.19	35.5	-13.0	-51.2	-7.9	-59.1
6	834.77	37.8	-13.0	-48.5	-7.9	-56.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	53.6	-13.0	-33.2	-7.7	-40.9
2	107.76	55.8	-13.0	-31.0	-7.7	-38.7
3	136.91	49.1	-13.0	-37.8	-7.7	-45.5
4	232.16	43.8	-13.0	-42.6	-7.7	-50.3
5	284.65	40.5	-13.0	-46.2	-7.7	-53.9
6	895.03	37.5	-13.0	-49.1	-7.9	-57.0

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	107.76	49.8	-13.0	-37.0	-7.7	-44.7
2	148.58	53.9	-13.0	-33.1	-7.7	-40.8
3	286.59	50.1	-13.0	-37.0	-7.7	-44.7
4	690.92	35.9	-13.0	-50.7	-7.8	-58.5
5	797.84	35.9	-13.0	-51.0	-7.8	-58.8
6	957.23	38.9	-13.0	-48.1	-7.9	-56.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	50.0	-13.0	-36.8	-7.7	-44.5
2	136.91	50.4	-13.0	-36.8	-7.7	-44.5
3	284.65	42.5	-13.0	-43.6	-7.7	-51.3
4	496.53	32.9	-13.0	-53.6	-7.8	-61.4
5	685.09	34.1	-13.0	-52.0	-7.8	-59.8
6	846.43	37.1	-13.0	-49.1	-7.9	-57.0

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	A2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	70.82	41.0	-13.0	-45.3	-7.7	-53.0
2	136.91	49.5	-13.0	-37.3	-7.7	-45.0
3	288.54	49.6	-13.0	-37.7	-7.7	-45.4
4	558.74	42.5	-13.0	-43.6	-7.8	-51.4
5	731.74	44.6	-13.0	-41.6	-7.9	-49.5
6	863.93	42.2	-13.0	-43.9	-7.9	-51.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	47.49	50.0	-13.0	-36.4	-7.7	-44.1
2	115.53	47.2	-13.0	-39.6	-7.7	-47.3
3	257.43	46.4	-13.0	-40.4	-7.7	-48.1
4	465.43	40.8	-13.0	-45.8	-7.8	-53.6
5	733.69	42.1	-13.0	-44.5	-7.9	-52.4
6	863.93	41.8	-13.0	-44.7	-7.9	-52.6

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	A3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	47.7	-13.0	-38.9	-7.7	-46.6
2	105.81	51.1	-13.0	-35.9	-7.7	-43.6
3	148.58	53.5	-13.0	-33.4	-7.7	-41.1
4	236.05	47.7	-13.0	-38.4	-7.7	-46.1
5	374.07	36.7	-13.0	-50.6	-7.8	-58.4
6	844.49	36.5	-13.0	-50.6	-7.9	-58.5
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	53.7	-13.0	-32.7	-7.7	-40.4
2	105.81	51.0	-13.0	-35.3	-7.7	-43.0
3	234.11	45.5	-13.0	-40.8	-7.7	-48.5
4	376.01	36.1	-13.0	-50.4	-7.8	-58.2
5	465.43	34.1	-13.0	-52.2	-7.8	-60.0
6	912.53	39.0	-13.0	-47.3	-7.9	-55.2

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	107.76	49.0	-13.0	-37.9	-7.7	-45.6
2	148.58	53.9	-13.0	-33.3	-7.7	-41.0
3	284.65	49.7	-13.0	-37.1	-7.7	-44.8
4	449.88	31.4	-13.0	-54.9	-7.8	-62.7
5	735.63	35.0	-13.0	-51.5	-7.8	-59.3
6	972.79	40.7	-13.0	-45.8	-7.9	-53.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	51.38	48.9	-13.0	-38.0	-7.7	-45.7
2	107.76	53.2	-13.0	-33.0	-7.7	-40.7
3	138.86	50.2	-13.0	-36.1	-7.7	-43.8
4	284.65	41.9	-13.0	-45.0	-7.8	-52.8
5	500.42	34.5	-13.0	-52.2	-7.8	-60.0
6	877.54	37.7	-13.0	-49.1	-7.9	-57.0

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	A2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	101.85	48.8	-13.0	-38.3	-7.7	-46.0
2	148.65	50.4	-13.0	-36.5	-7.7	-44.2
3	276.95	46.8	-13.0	-40.3	-7.7	-48.0
4	399.56	38.5	-13.0	-48.5	-7.8	-56.3
5	648.25	40.9	-13.0	-45.7	-7.9	-53.6
6	931.82	43.5	-13.0	-43.0	-7.9	-50.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	43.54	52.2	-13.0	-34.5	-7.7	-42.2
2	133.25	54.4	-13.0	-31.9	-7.7	-39.6
3	222.62	43.5	-13.0	-43.3	-7.7	-51.0
4	399.65	38.5	-13.0	-48.2	-7.8	-56.0
5	566.64	39.6	-13.0	-46.5	-7.9	-54.4
6	930.24	49.5	-13.0	-36.6	-7.9	-44.5

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	A3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	66.93	47.6	-13.0	-39.1	-7.7	-46.8
2	146.63	52.9	-13.0	-34.1	-7.7	-41.8
3	234.11	49.3	-13.0	-37.5	-7.7	-45.2
4	286.59	45.8	-13.0	-41.0	-7.7	-48.7
5	556.79	32.6	-13.0	-53.6	-7.8	-61.4
6	741.46	35.8	-13.0	-51.1	-7.9	-59.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	54.8	-13.0	-31.7	-7.7	-39.4
2	107.76	54.5	-13.0	-32.0	-7.7	-39.7
3	234.11	43.7	-13.0	-43.4	-7.7	-51.1
4	449.88	34.3	-13.0	-52.5	-7.8	-60.3
5	655.93	33.4	-13.0	-53.2	-7.8	-61.0
6	873.65	38.0	-13.0	-48.2	-7.9	-56.1

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	Low channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	A1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	107.76	49.3	-13.0	-37.1	-7.7	-44.8
2	148.58	53.5	-13.0	-33.3	-7.7	-41.0
3	284.65	49.5	-13.0	-37.0	-7.7	-44.7
4	449.88	31.5	-13.0	-55.5	-7.8	-63.3
5	690.92	34.5	-13.0	-52.0	-7.8	-59.8
6	914.47	38.0	-13.0	-49.0	-7.9	-56.9
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	51.38	49.4	-13.0	-37.6	-7.7	-45.3
2	105.81	49.8	-13.0	-37.0	-7.7	-44.7
3	138.86	49.5	-13.0	-37.4	-7.7	-45.1
4	286.59	41.6	-13.0	-44.6	-7.7	-52.3
5	731.74	34.9	-13.0	-52.2	-7.9	-60.1
6	902.81	38.0	-13.0	-48.4	-7.9	-56.3

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	Low channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	A2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	101.24	49.4	-13.0	-37.4	-7.7	-45.1
2	148.34	50.6	-13.0	-36.2	-7.7	-43.9
3	276.81	46.2	-13.0	-40.5	-7.7	-48.2
4	399.21	38.9	-13.0	-47.7	-7.8	-55.5
5	648.52	40.6	-13.0	-45.9	-7.9	-53.8
6	931.61	43.8	-13.0	-43.3	-7.9	-51.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	51.44	48.9	-13.0	-38.1	-7.7	-45.8
2	138.92	48.3	-13.0	-37.8	-7.7	-45.5
3	288.65	43.9	-13.0	-42.9	-7.7	-50.6
4	570.56	42.2	-13.0	-44.5	-7.8	-52.3
5	663.84	42.5	-13.0	-44.4	-7.9	-52.3
6	865.95	43.3	-13.0	-43.4	-7.9	-51.3

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	Low channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	A3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	105.81	51.5	-13.0	-35.3	-7.7	-43.0
2	148.58	52.8	-13.0	-34.4	-7.7	-42.1
3	234.11	48.2	-13.0	-38.5	-7.7	-46.2
4	286.59	45.8	-13.0	-41.0	-7.7	-48.7
5	374.07	36.7	-13.0	-50.0	-7.8	-57.8
6	720.08	35.1	-13.0	-51.5	-7.9	-59.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	53.7	-13.0	-33.3	-7.7	-41.0
2	107.76	51.8	-13.0	-35.2	-7.7	-42.9
3	136.91	49.1	-13.0	-37.5	-7.7	-45.2
4	234.11	45.2	-13.0	-41.5	-7.7	-49.2
5	444.05	35.5	-13.0	-50.7	-7.8	-58.5
6	924.19	38.7	-13.0	-47.8	-7.9	-55.7

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	107.76	39.7	-13.0	-47.4	-7.7	-55.1
2	148.58	49.7	-13.0	-37.2	-7.7	-44.9
3	236.05	43.6	-13.0	-43.6	-7.7	-51.3
4	286.59	45.1	-13.0	-42.0	-7.8	-49.8
5	714.25	34.5	-13.0	-52.2	-7.8	-60.0
6	922.24	38.2	-13.0	-48.3	-7.9	-56.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	107.76	47.1	-13.0	-39.4	-7.7	-47.1
2	150.52	49.7	-13.0	-37.3	-7.7	-45.0
3	286.59	45.0	-13.0	-41.5	-7.7	-49.2
4	449.88	37.4	-13.0	-49.0	-7.8	-56.8
5	722.02	36.2	-13.0	-50.1	-7.9	-58.0
6	953.35	38.5	-13.0	-48.0	-7.9	-55.9

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	B2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	101.85	50.4	-13.0	-36.1	-7.7	-43.8
2	162.26	49.8	-13.0	-36.5	-7.7	-44.2
3	267.66	47.9	-13.0	-38.4	-7.7	-46.1
4	397.46	42.5	-13.0	-44.2	-7.8	-52.0
5	500.65	40.5	-13.0	-46.0	-7.8	-53.8
6	795.81	43.6	-13.0	-43.3	-7.9	-51.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	45.66	52.4	-13.0	-33.7	-7.7	-41.4
2	133.21	54.8	-13.0	-32.3	-7.7	-40.0
3	288.65	41.8	-13.0	-44.9	-7.7	-52.6
4	399.55	41.9	-13.0	-44.4	-7.8	-52.2
5	564.65	39.8	-13.0	-47.1	-7.8	-54.9
6	933.91	44.8	-13.0	-41.9	-7.9	-49.8

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	B3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	39.72	37.1	-13.0	-49.4	-7.7	-57.1
2	70.82	40.6	-13.0	-45.8	-7.7	-53.5
3	187.45	44.5	-13.0	-42.2	-7.7	-49.9
4	286.59	44.7	-13.0	-41.4	-7.7	-49.1
5	403.23	36.9	-13.0	-49.7	-7.8	-57.5
6	741.46	34.2	-13.0	-52.5	-7.9	-60.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	49.6	-13.0	-37.1	-7.7	-44.8
2	150.52	48.0	-13.0	-38.9	-7.7	-46.6
3	284.65	43.2	-13.0	-43.9	-7.7	-51.6
4	451.82	37.5	-13.0	-49.0	-7.8	-56.8
5	706.47	35.2	-13.0	-51.3	-7.9	-59.2
6	939.74	38.7	-13.0	-48.2	-7.9	-56.1

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	107.76	38.4	-13.0	-48.1	-7.7	-55.8
2	148.58	49.2	-13.0	-37.3	-7.7	-45.0
3	234.11	43.4	-13.0	-43.7	-7.7	-51.4
4	286.59	44.5	-13.0	-42.2	-7.7	-49.9
5	714.25	36.1	-13.0	-49.9	-7.9	-57.8
6	988.34	39.8	-13.0	-46.8	-7.9	-54.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	44.6	-13.0	-42.1	-7.7	-49.8
2	107.76	44.5	-13.0	-42.5	-7.7	-50.2
3	148.58	49.5	-13.0	-37.1	-7.7	-44.8
4	284.65	44.2	-13.0	-42.3	-7.7	-50.0
5	449.88	38.2	-13.0	-48.2	-7.8	-56.0
6	706.47	35.7	-13.0	-51.1	-7.9	-59.0

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	B2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	101.85	50.8	-13.0	-36.3	-7.7	-44.0
2	162.35	49.3	-13.0	-37.6	-7.7	-45.3
3	267.44	47.6	-13.0	-39.6	-7.7	-47.3
4	397.46	42.8	-13.0	-43.6	-7.8	-51.4
5	500.42	40.3	-13.0	-46.6	-7.8	-54.4
6	795.62	43.2	-13.0	-42.9	-7.9	-50.8
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	45.42	52.1	-13.0	-34.4	-7.7	-42.1
2	133.21	54.4	-13.0	-31.8	-7.7	-39.5
3	288.29	41.1	-13.0	-45.6	-7.7	-53.3
4	399.69	42.4	-13.0	-44.0	-7.8	-51.8
5	564.85	39.5	-13.0	-47.1	-7.8	-54.9
6	933.86	44.4	-13.0	-41.8	-7.9	-49.7

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	B3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	101.92	41.6	-13.0	-45.5	-7.7	-53.2
2	162.18	47.6	-13.0	-39.3	-7.7	-47.0
3	234.11	46.0	-13.0	-40.8	-7.7	-48.5
4	284.65	43.5	-13.0	-43.3	-7.7	-51.0
5	397.39	36.2	-13.0	-50.5	-7.8	-58.3
6	690.92	34.5	-13.0	-52.3	-7.8	-60.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	49.6	-13.0	-37.1	-7.7	-44.8
2	150.52	48.0	-13.0	-39.1	-7.7	-46.8
3	284.65	43.2	-13.0	-43.8	-7.7	-51.5
4	451.82	37.5	-13.0	-48.9	-7.8	-56.7
5	706.47	35.2	-13.0	-51.2	-7.9	-59.1
6	939.74	38.7	-13.0	-48.1	-7.9	-56.0

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	148.58	49.5	-13.0	-36.8	-7.7	-44.5
2	234.11	43.7	-13.0	-42.8	-7.7	-50.5
3	286.59	44.2	-13.0	-42.5	-7.7	-50.2
4	449.88	31.8	-13.0	-54.3	-7.7	-62.0
5	745.35	35.2	-13.0	-51.9	-7.9	-59.8
6	898.92	37.6	-13.0	-49.3	-7.9	-57.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	70.82	45.5	-13.0	-41.2	-7.7	-48.9
2	107.76	45.1	-13.0	-41.7	-7.7	-49.4
3	173.85	42.5	-13.0	-44.3	-7.7	-52.0
4	286.59	44.7	-13.0	-42.3	-7.7	-50.0
5	449.88	36.6	-13.0	-50.1	-7.8	-57.9
6	731.74	35.9	-13.0	-51.0	-7.9	-58.9

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	B2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	70.82	45.0	-13.0	-41.9	-7.7	-49.6
2	148.58	50.2	-13.0	-36.9	-7.7	-44.6
3	288.54	45.3	-13.0	-41.6	-7.7	-49.3
4	444.05	41.4	-13.0	-45.4	-7.8	-53.2
5	650.10	43.1	-13.0	-43.3	-7.8	-51.1
6	729.80	42.6	-13.0	-43.8	-7.9	-51.7
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	70.82	47.8	-13.0	-38.9	-7.7	-46.6
2	101.92	47.3	-13.0	-39.5	-7.7	-47.2
3	133.21	54.4	-13.0	-32.5	-7.7	-40.2
4	222.44	42.7	-13.0	-44.0	-7.7	-51.7
5	432.38	38.5	-13.0	-48.2	-7.8	-56.0
6	500.42	38.6	-13.0	-47.9	-7.9	-55.8

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	B3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	101.92	41.9	-13.0	-44.3	-7.7	-52.0
2	148.58	47.6	-13.0	-39.1	-7.7	-46.8
3	234.11	45.3	-13.0	-41.8	-7.7	-49.5
4	284.65	43.6	-13.0	-42.7	-7.7	-50.4
5	397.39	36.1	-13.0	-50.5	-7.8	-58.3
6	690.92	35.4	-13.0	-51.6	-7.8	-59.4
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	49.5	-13.0	-37.0	-7.7	-44.7
2	148.58	49.6	-13.0	-37.1	-7.7	-44.8
3	284.65	43.2	-13.0	-43.3	-7.7	-51.0
4	405.17	35.6	-13.0	-51.1	-7.8	-58.9
5	449.88	37.4	-13.0	-49.0	-7.8	-56.8
6	741.46	34.5	-13.0	-52.5	-7.9	-60.4

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	Low channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	B1		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	70.82	39.1	-13.0	-47.9	-7.7	-55.6
2	107.76	38.7	-13.0	-48.2	-7.7	-55.9
3	210.78	42.0	-13.0	-45.3	-7.7	-53.0
4	309.92	37.2	-13.0	-49.6	-7.7	-57.3
5	547.07	31.9	-13.0	-54.3	-7.9	-62.2
6	706.47	36.2	-13.0	-50.3	-7.9	-58.2
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	63.05	44.5	-13.0	-42.2	-7.7	-49.9
2	99.98	46.3	-13.0	-40.8	-7.7	-48.5
3	173.85	44.1	-13.0	-42.1	-7.7	-49.8
4	307.98	39.0	-13.0	-48.3	-7.7	-56.0
5	449.88	37.7	-13.0	-48.8	-7.8	-56.6
6	739.52	35.3	-13.0	-51.5	-7.9	-59.4

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	Low channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	B2		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	43.58	41.9	-13.0	-44.5	-7.7	-52.2
2	103.92	50.2	-13.0	-36.9	-7.7	-44.6
3	267.45	47.9	-13.0	-38.4	-7.7	-46.1
4	500.58	40.9	-13.0	-46.4	-7.8	-54.2
5	650.30	43.5	-13.0	-43.4	-7.8	-51.2
6	795.65	43.6	-13.0	-43.1	-7.9	-51.0
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	70.95	47.2	-13.0	-39.9	-7.7	-47.6
2	101.26	47.6	-13.0	-38.9	-7.7	-46.6
3	133.45	54.1	-13.0	-32.8	-7.7	-40.5
4	222.56	42.2	-13.0	-44.9	-7.7	-52.6
5	432.26	38.3	-13.0	-48.2	-7.8	-56.0
6	500.65	38.5	-13.0	-48.3	-7.9	-56.2

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

MODE	Low channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	B3		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	99.98	41.2	-13.0	-45.9	-7.7	-53.6
2	146.63	47.9	-13.0	-39.0	-7.7	-46.7
3	234.11	45.8	-13.0	-41.2	-7.7	-48.9
4	284.65	43.9	-13.0	-43.2	-7.7	-50.9
5	409.06	35.0	-13.0	-52.0	-7.8	-59.8
6	723.97	35.9	-13.0	-50.2	-7.9	-58.1
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3m						
NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	68.88	49.5	-13.0	-37.3	-7.7	-45.0
2	148.58	48.9	-13.0	-37.7	-7.7	-45.4
3	171.90	45.8	-13.0	-41.0	-7.7	-48.7
4	284.65	43.3	-13.0	-43.3	-7.7	-51.0
5	449.88	38.1	-13.0	-48.5	-7.8	-56.3
6	745.35	35.5	-13.0	-50.9	-7.9	-58.8

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).

4.7 RADIATED EMISSION MEASUREMENT (ABOVE 1GHz)

4.7.1 LIMITS OF RADIATED EMISSION MEASUREMENT

According to FCC 90.1323 specified that the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in Watts, by at least $43 + 10 \log (P)$ dB. The limit of emission equal to -13dBm Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 1 MHz or less, but at least one percent of the emission bandwidth of the fundamental emission of the transmitter, provided the measured energy is integrated over a 1 MHz bandwidth.

4.7.2 TEST INSTRUMENTS

Same as 4.6.2.

4.7.3 TEST PROCEDURES

Same as 4.6.3.

4.7.4 DEVIATION FROM TEST STANDARD

No deviation

4.7.5 TEST SETUP

Same as 4.6.5.

4.7.6 EUT OPERATING CONDITIONS

Same as 4.1.5

4.7.7 TEST RESULTS

CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	A1		

LOW CHANNEL

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7303.50	59.9	-13.0	-44.4	9.5	-34.9
2	10955.25	56.6	-13.0	-45.6	7.8	-37.8

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7303.50	64.4	-13.0	-39.2	9.5	-29.7
2	10955.25	57.1	-13.0	-45.0	7.8	-37.2

MIDDLE CHANNEL

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	59.3	-13.0	-44.5	9.7	-34.8
2	10987.50	56.1	-13.0	-45.8	7.8	-38.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	63.8	-13.0	-40.4	9.7	-30.7
2	10987.50	56.8	-13.0	-45.6	7.8	-37.8

HIGH CHANNEL

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7346.50	61.8	-13.0	-42.6	9.7	-32.9
2	11019.75	56.7	-13.0	-45.4	7.8	-37.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7346.50	63.4	-13.0	-41.1	9.7	-31.4
2	11019.75	56.4	-13.0	-46.1	7.8	-38.3

NOTE: Power Value (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	A1		

LOW CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7305.00	58.4	-13.0	-45.3	9.5	-35.8
2	10957.50	55.5	-13.0	-47.1	7.8	-39.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7305.00	63.8	-13.0	-39.9	9.5	-30.4
2	10957.50	57.2	-13.0	-44.7	7.8	-36.9

MIDDLE CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	59.8	-13.0	-44.4	9.7	-34.7
2	10987.50	55.8	-13.0	-46.4	7.8	-38.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	61.6	-13.0	-42.8	9.7	-33.1
2	10987.50	56.5	-13.0	-45.8	7.8	-38.0

HIGH CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7345.00	59.3	-13.0	-45.0	9.7	-35.3
2	11017.50	55.3	-13.0	-47.1	7.8	-39.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7345.00	62.2	-13.0	-41.8	9.7	-32.1
2	11017.50	56.2	-13.0	-45.6	7.8	-37.8

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	A1		

LOW CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7307.00	59.3	-13.0	-44.8	9.5	-35.3
2	10960.50	56.5	-13.0	-45.5	7.8	-37.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7307.00	63.6	-13.0	-40.3	9.5	-30.8
2	10960.50	56.3	-13.0	-45.5	7.8	-37.7

MIDDLE CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	58.9	-13.0	-45.4	9.7	-35.7
2	10987.50	56.3	-13.0	-45.8	7.8	-38.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	62.6	-13.0	-41.5	9.7	-31.8
2	10987.50	58.0	-13.0	-44.2	7.8	-36.4

HIGH CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7343.00	58.7	-13.0	-45.8	9.7	-36.1
2	11014.50	55.2	-13.0	-47.4	7.8	-39.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7343.00	62.7	-13.0	-41.9	9.7	-32.2
2	11014.50	55.2	-13.0	-46.7	7.8	-38.9

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	A1		

LOW CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7310.00	60.0	-13.0	-43.8	9.5	-34.3
2	10965.00	56.2	-13.0	-46.2	7.8	-38.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7310.00	63.4	-13.0	-40.3	9.5	-30.8
2	10965.00	57.8	-13.0	-44.7	7.8	-36.9

MIDDLE CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	58.6	-13.0	-45.6	9.7	-35.9
2	10987.50	55.3	-13.0	-46.9	7.8	-39.1

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	62.1	-13.0	-41.6	9.7	-31.9
2	10987.50	55.2	-13.0	-47.0	7.8	-39.2

HIGH CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7340.00	59.2	-13.0	-45.3	9.7	-35.6
2	11010.00	55.8	-13.0	-46.4	7.8	-38.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7340.00	62.9	-13.0	-40.9	9.7	-31.2
2	11010.00	56.3	-13.0	-45.9	7.8	-38.1

NOTE: Power Value (dBm) = S.G Power Value (dBm) + Correction Factor (dB).



A D T

CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	3.5MHz
TEST MODE	B1		

LOW CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7303.50	55.9	-13.0	-47.9	9.5	-38.4
2	10955.25	53.7	-13.0	-48.3	7.8	-40.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7303.50	55.9	-13.0	-48.0	9.5	-38.5
2	10955.25	53.8	-13.0	-48.1	7.8	-40.3

MIDDLE CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	56.7	-13.0	-47.7	9.7	-38.0
2	10987.50	54.3	-13.0	-48.2	7.8	-40.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	55.2	-13.0	-49.1	9.7	-39.4
2	10987.50	53.3	-13.0	-49.3	7.8	-41.5

HIGH CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7346.50	55.7	-13.0	-48.7	9.7	-39.0
2	11019.75	54.8	-13.0	-47.4	7.8	-39.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7346.50	54.7	-13.0	-49.2	9.7	-39.5
2	11019.75	53.0	-13.0	-49.3	7.8	-41.5

NOTE: Power Value (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	5.0MHz
TEST MODE	B1		

LOW CHANNEL

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7305.00	57.0	-13.0	-46.8	9.5	-37.3
2	10957.50	55.4	-13.0	-46.7	7.8	-38.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7305.00	56.4	-13.0	-47.9	9.5	-38.4
2	10957.50	53.4	-13.0	-48.7	7.8	-40.9

MIDDLE CHANNEL

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	56.1	-13.0	-47.7	9.7	-38.0
2	10987.50	53.9	-13.0	-48.3	7.8	-40.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	55.7	-13.0	-48.2	9.7	-38.5
2	10987.50	54.7	-13.0	-47.5	7.8	-39.7

HIGH CHANNEL

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7345.00	56.7	-13.0	-47.6	9.7	-37.9
2	11017.50	54.7	-13.0	-47.7	7.8	-39.9

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7345.00	55.4	-13.0	-48.8	9.7	-39.1
2	11017.50	53.7	-13.0	-48.5	7.8	-40.7

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



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CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	7.0MHz
TEST MODE	B1		

LOW CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7307.00	57.3	-13.0	-46.4	9.5	-36.9
2	10960.50	54.5	-13.0	-48.1	7.8	-40.3

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7307.00	56.2	-13.0	-47.5	9.5	-38.0
2	10960.50	53.0	-13.0	-49.4	7.8	-41.6

MIDDLE CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	56.2	-13.0	-47.7	9.7	-38.0
2	10987.50	54.5	-13.0	-47.4	7.8	-39.6

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	55.7	-13.0	-47.9	9.7	-38.2
2	10987.50	53.3	-13.0	-48.6	7.8	-40.8

HIGH CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7343.00	56.4	-13.0	-47.4	9.7	-37.7
2	11014.50	54.7	-13.0	-47.5	7.8	-39.7

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7343.00	55.4	-13.0	-48.9	9.7	-39.2
2	11014.50	53.8	-13.0	-48.8	7.8	-41.0

NOTE: Power Value (dBum) = S.G Power Value (dBm) + Correction Factor (dB).



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CHANNEL	Low, Middle, High channel	CHANNEL BANDWIDTH	10.0MHz
TEST MODE	B1		

LOW CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7310.00	57.8	-13.0	-46.0	9.5	-36.5
2	10965.00	55.8	-13.0	-46.3	7.8	-38.5

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7310.00	54.6	-13.0	-49.4	9.5	-39.9
2	10965.00	53.7	-13.0	-48.4	7.8	-40.6

MIDDLE CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	56.4	-13.0	-47.9	9.7	-38.2
2	10987.50	54.5	-13.0	-47.8	7.8	-40.0

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7325.00	55.3	-13.0	-48.7	9.7	-39.0
2	10987.50	53.7	-13.0	-48.4	7.8	-40.6

HIGH CHANNEL**ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 m**

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7340.00	56.8	-13.0	-47.2	9.7	-37.5
2	11010.00	54.7	-13.0	-47.2	7.8	-39.4

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 m

NO.	FREQ. (MHz)	EMISSION LEVEL (dBuV)	LIMIT (dBm)	S.G POWER VALUE (dBm)	CORRECTION FACTOR (dB)	POWER VALUE (dBm)
1	7340.00	55.0	-13.0	-48.9	9.7	-39.2
2	11010.00	53.8	-13.0	-48.1	7.8	-40.3

NOTE: Power Value (dBm) = S.G Power Value (dBm) + Correction Factor (dB).

5 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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6 INFORMATION ON THE TESTING LABORATORIES

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

Copies of accreditation certificates of our laboratories obtained from approval agencies can be downloaded from our web site:

www.adt.com.tw/index.5/phtml. If you have any comments, please feel free to contact us at the following:

Linko EMC/RF Lab:

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF Lab:

Tel: 886-3-5935343

Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety/Telecom Lab: Web Site: www.adt.com.tw

Tel: 886-3-3183232

Fax: 886-3-3185050

The address and road map of all our labs can be found in our web site also.

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