EUT	EliteConnect Universal 2.4GHz/5GHz Wireless Access Point	**MODEL**	SMC2555W-AG
MODE	Turbo Mode	**CHANNEL**	3
FREQUENCY RANGE	1000MHz~40000MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 976 hPa	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
TESTED BY	Eic Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5088.00	51.0 PK	74.00	-23.00	1.30 H	61	13.90	37.00
1	#5088.00	44.6 AV	54.00	-9.40	1.30 H	61	7.50	37.00
2	*5290.00	95.1 PK			1.58 H	99	58.00	37.00
2	*5290.00	86.7 AV			1.58 H	99	49.60	37.00
3	#5350.00	51.2 PK	74.00	-22.80	1.33 H	119	14.10	37.00
3	#5350.00	41.0 AV	54.00	-13.00	1.33 H	119	4.00	37.00
4	#5408.00	50.4 PK	74.00	-23.60	1.54 H	26	13.40	37.00
5	10580.00	51.8 PK	68.30	-16.50	1.35 H	26	6.00	45.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5088.00	56.0 PK	74.00	-18.00	1.11 V	9	19.00	37.00
1	#5088.00	49.6 AV	54.00	-4.40	1.11 V	9	12.60	37.00
2	*5290.00	98.9 PK			1.00 V	0	61.90	37.00
2	*5290.00	91.2 AV			1.00 V	0	54.20	37.00
3	#5350.00	57.0 PK	74.00	-17.00	1.05 V	24	20.00	37.00
3	#5350.00	47.8 AV	54.00	-6.20	1.05 V	24	10.80	37.00
4	#5408.00	59.4 PK	74.00	-14.60	1.05 V	24	22.30	37.00
4	#5408.00	50.8 AV	54.00	-3.20	1.05 V	24	13.70	37.00
5	10580.00	55.1 PK	68.30	-13.20	1.52 V	329	9.40	45.70

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
   (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "#" : The radiated frequency falling in the restricted band.

EUT	EliteConnect Universal 2.4GHz/5GHz Wireless Access Point	**MODEL**	SMC2555W-AG
MODE	Turbo Mode	**CHANNEL**	4
FREQUENCY RANGE	1000MHz~40000MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 976 hPa	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
TESTED BY	Eic Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5120.00	51.4 PK	74.00	-22.60	1.41 H	222	14.40	37.00
1	#5120.00	44.1 AV	54.00	-9.90	1.41 H	222	7.10	37.00
2	#5440.00	49.4 PK	74.00	-24.60	1.02 H	24	12.30	37.00
3	5715.00	59.1 PK	72.80	-13.70	1.33 H	6	21.60	37.50
4	5725.00	71.3 PK	82.80	-11.50	1.20 H	249	33.80	37.50
5	*5760.00	95.7 PK			1.22 H	289	58.10	37.60
5	*5760.00	87.8 AV			1.22 H	289	50.20	37.50
6	#11520.00	58.0 PK	74.00	-16.00	1.29 H	356	6.70	51.30
6	#11520.00	47.0 AV	54.00	-7.00	1.29 H	356	-4.30	37.60

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5120.00	55.6 PK	74.00	-18.40	1.36 V	160	18.50	37.00
1	#5120.00	48.6 AV	54.00	-5.40	1.36 V	160	11.50	37.00
2	#5440.00	57.0 PK	74.00	-17.00	1.39 V	65	19.90	37.00
2	#5440.00	49.0 AV	54.00	-5.00	1.39 V	65	12.00	37.00
3	5715.00	66.2 PK	72.80	-6.60	1.25 V	8	28.70	37.50
4	5725.00	76.4 PK	82.80	-6.40	1.55 V	68	38.90	37.50
5	*5760.00	101.5 PK			1.09 V	6	63.90	37.60
5	*5760.00	94.6 AV			1.09 V	6	57.00	37.60
6	#11520.00	61.0 PK	74.00	-13.00	1.25 V	24	9.70	51.30
6	#11520.00	51.2 AV	54.00	-2.80	1.25 V	24	-0.10	51.30

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
   (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "# " :The radiated frequency falling in the restricted band.

EUT	EliteConnect Universal 2.4GHz/5GHz Wireless Access Point	**MODEL**	SMC2555W-AG
MODE	Turbo Mode	**CHANNEL**	5
FREQUENCY RANGE	1000MHz~40000MHz	**DETECTOR FUNCTION**	Peak(PK) Average (AV)
ENVIRONMENTAL CONDITIONS	28 deg. C, 56%RH, 976 hPa	**INPUT POWER (SYSTEM)**	120Vac, 60Hz
TESTED BY	Eic Lee		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5088.00	48.6 PK	74.00	-25.40	1.05 H	34	11.60	37.00
2	#5440.00	50.7 PK	74.00	-23.30	1.01 H	260	13.70	37.00
3	*5800.00	96.4 PK			1.33 H	26	58.70	37.70
3	*5800.00	88.7 AV			1.33 H	26	51.00	37.00
4	5825.00	70.0 PK	82.80	-12.80	1.55 H	87	32.30	37.70
5	5835.00	60.0 PK	72.80	-12.80	1.09 H	68	22.30	37.70
6	#11600.00	56.8 PK	74.00	-17.20	1.05 H	258	5.80	51.00
6	#11600.00	45.8 AV	54.00	-8.20	1.05 H	258	-5.20	37.70

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	#5088.00	57.2 PK	74.00	-16.80	1.57 V	45	20.10	37.00
1	#5088.00	49.6 AV	54.00	-4.40	1.57 V	45	12.60	37.00
2	#5440.00	60.4 PK	74.00	-13.60	1.03 V	247	23.40	37.00
2	#5440.00	50.9 AV	54.00	-3.10	1.03 V	247	13.90	37.00
3	*5800.00	99.8 PK			1.25 V	47	62.10	37.70
3	*5800.00	94.5 AV			1.25 V	47	56.80	37.70
4	5825.00	75.2 PK	82.80	-7.60	1.04 V	55	37.50	37.70
5	5835.00	64.3 PK	72.80	-8.50	1.57 V	227	26.50	37.70
6	#11600.00	58.8 PK	74.00	-15.20	1.63 V	325	7.80	51.00
6	#11600.00	50.0 AV	54.00	-4.00	1.63 V	325	-1.00	51.00

NOTE:

1. Emission level = Raw value - Correction Factor
2. Correction Factor = Pre-Amp. Factor - Ant. Factor - Cable loss
   (Pre-Amp. Factor = 0, when a Pre-Amplifier is not used for the test.)
3. Margin value = Emission level - Limit value
4. The other emission levels were very low against the limit.
5. "*" : Fundamental frequency
6. "# " :The radiated frequency falling in the restricted band.

5.3 PEAK TRANSMIT POWER MEASUREMENT

5.3.1 LIMITS OF PEAK TRANSMIT POWER MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	The lesser of 50mW (17dBm) or 4dBm + 10logB
5.25 – 5.35 GHz	The lesser of 250mW (24dBm) or 11dBm + 10logB
5.725 – 5.825 GHz	The lesser of 1W (30dBm) or 17dBm + 10logB

Note: Where B is the 26dB emission bandwidth in MHz.

5.3.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003

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

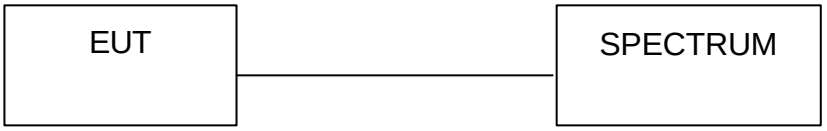
5.3.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set span to encompass the entire emission bandwidth of the signal.
3. Set RBW to 1MHz, VBW to 30kHz.
4. Using the spectrum analyzer' s channel power measurement function to measure the output power.

5.3.4 DEVIATION FROM TEST STANDARD

No deviation

5.3.5 TEST SETUP



5.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

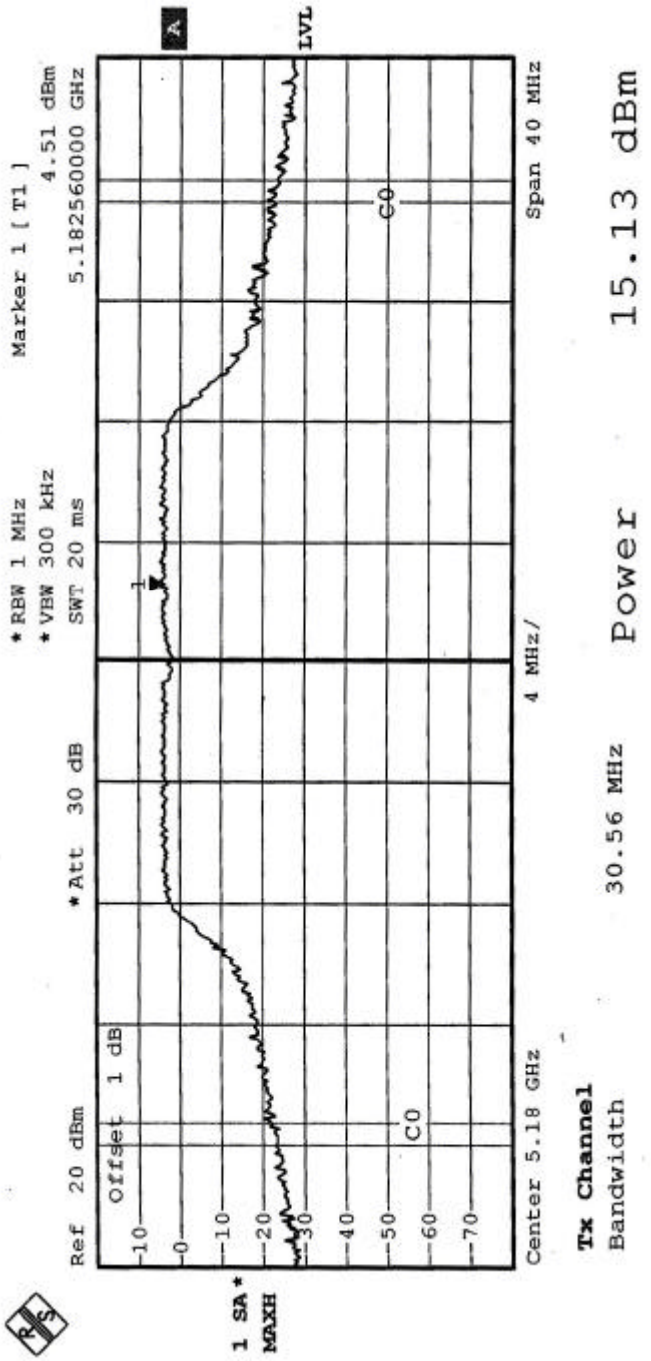
5.3.7 TEST RESULTS

EUT	EliteConnect Universal 2.4GHz/5GHz Wireless Access Point	**MODEL**	SMC2555W-AG
MODE	Normal	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	21eg. C, 58RH, 976 hPa	**TESTED BY**	Eric Lee

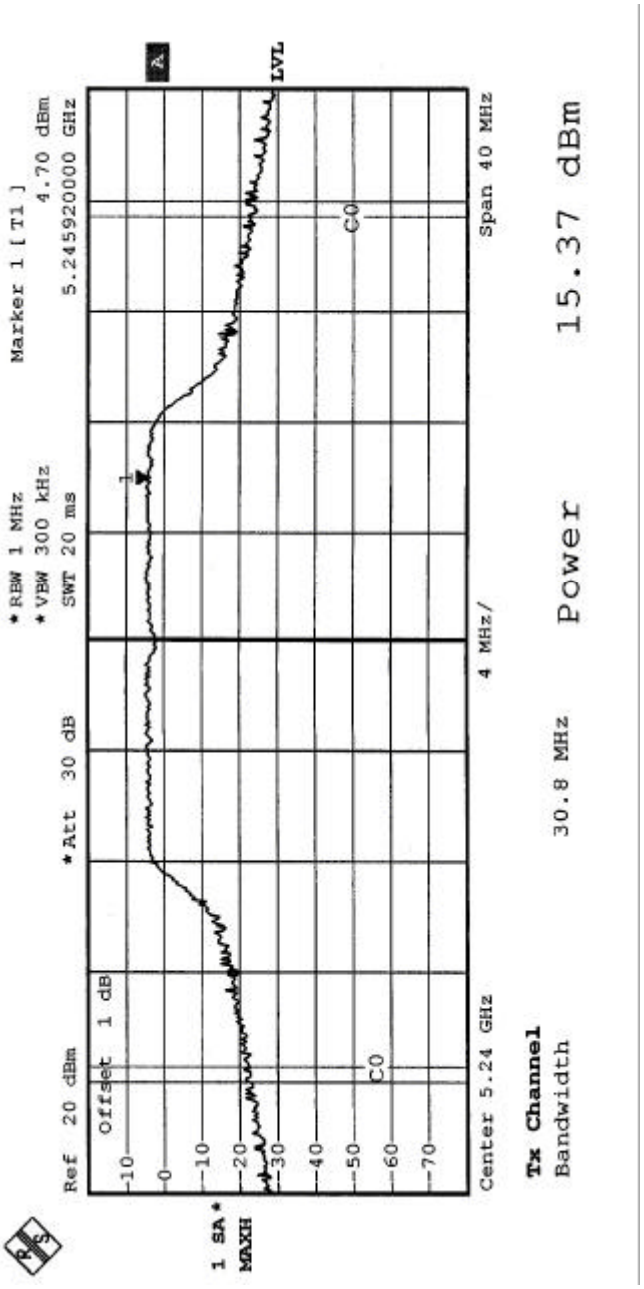
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5180	15.13	17.00	30.56	PASS
4	5240	15.37	17.00	30.80	PASS
5	5260	15.15	24.00	29.76	PASS
8	5320	15.14	24.00	30.32	PASS
9	5745	15.52	30.00	30.32	PASS
12	5805	15.14	30.00	32.72	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

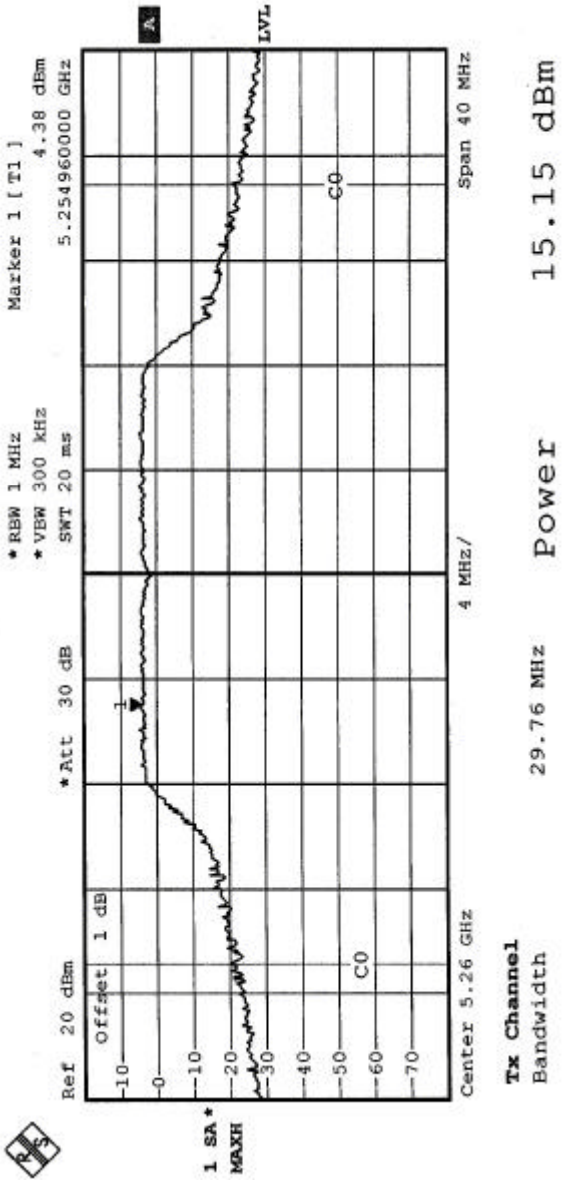
CHANNEL 1


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
4.51 dBm
5.182560000 GHz
A
LVL
1 SA*
MAXH
Center 5.18 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
30.56 MHz
Power
15.13 dBm

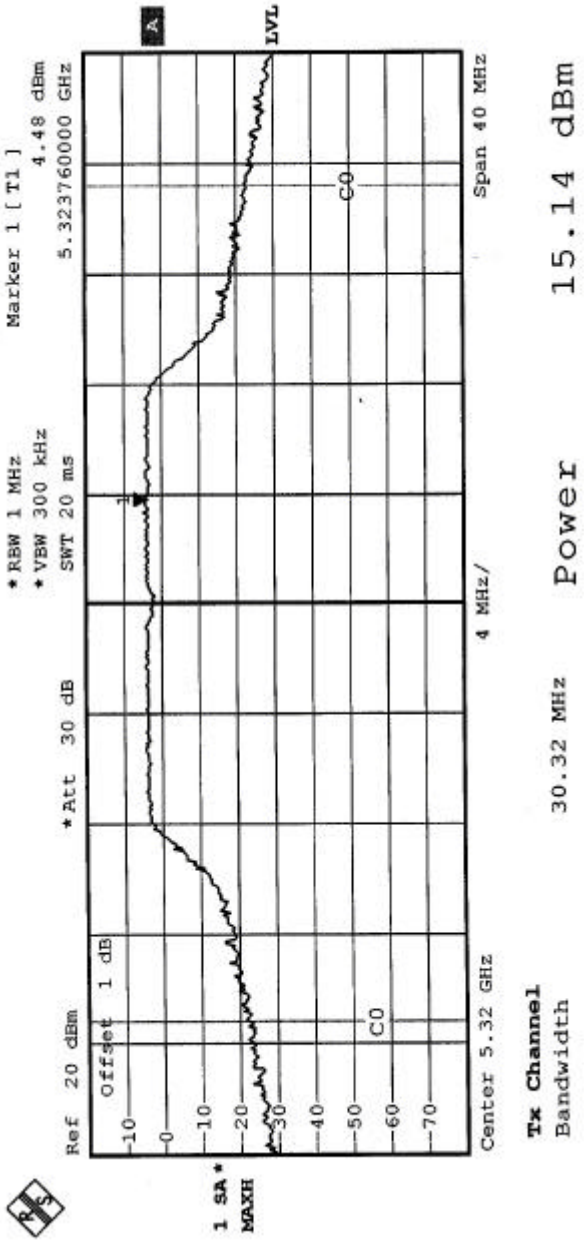
CHANNEL 4


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
4.70 dBm
5.24592000 GHz
1 SA*
MAXH
LVL
Center 5.24 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
30.8 MHz
Power
15.37 dBm

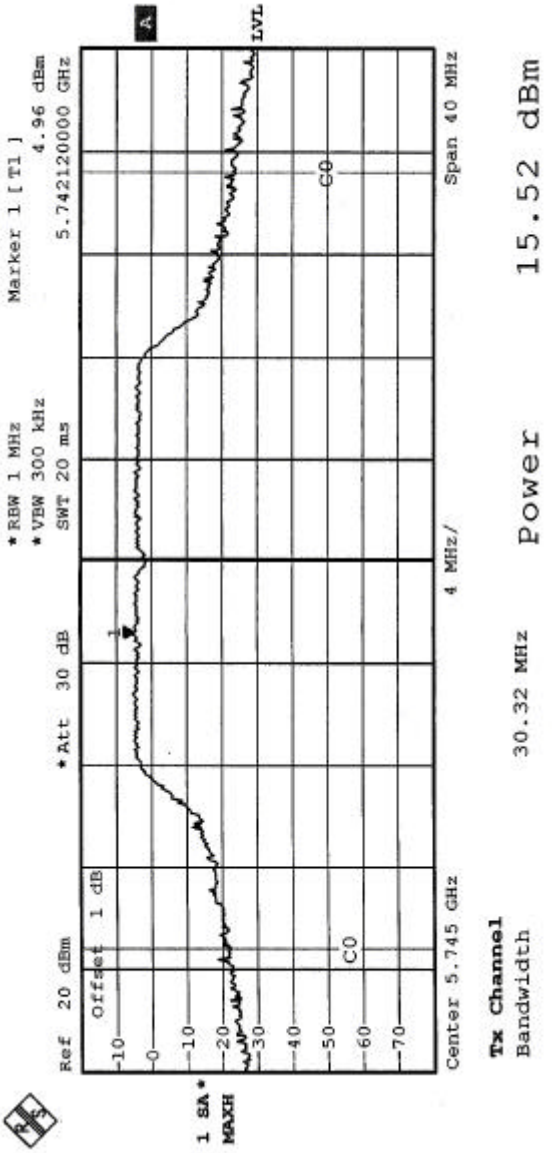
CHANNEL 5


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
4.38 dBm
5.254960000 GHz
1 SA *
MAXH
A
LVL
Center 5.26 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
29.76 MHz
Power
15.15 dBm

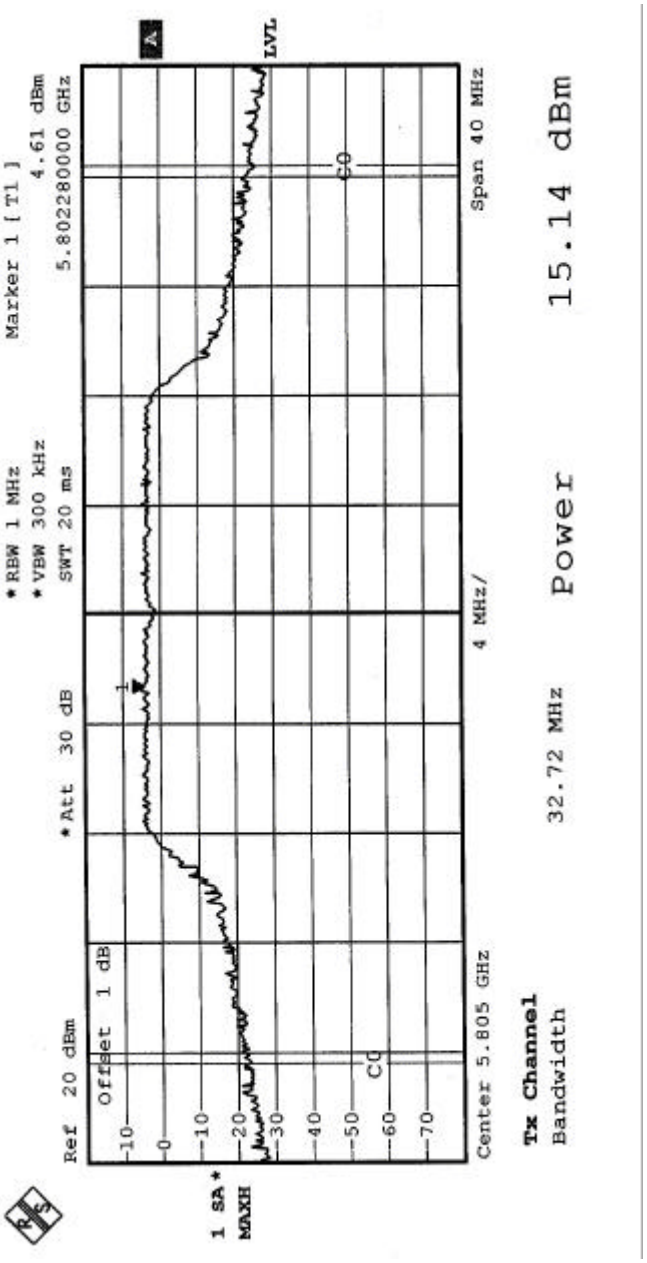
CHANNEL 8


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 1 MHz
*VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
4.48 dBm
5.323760000 GHz
A
LVL
1 SA*
MAXH
Center 5.32 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
30.32 MHz
Power
15.14 dBm

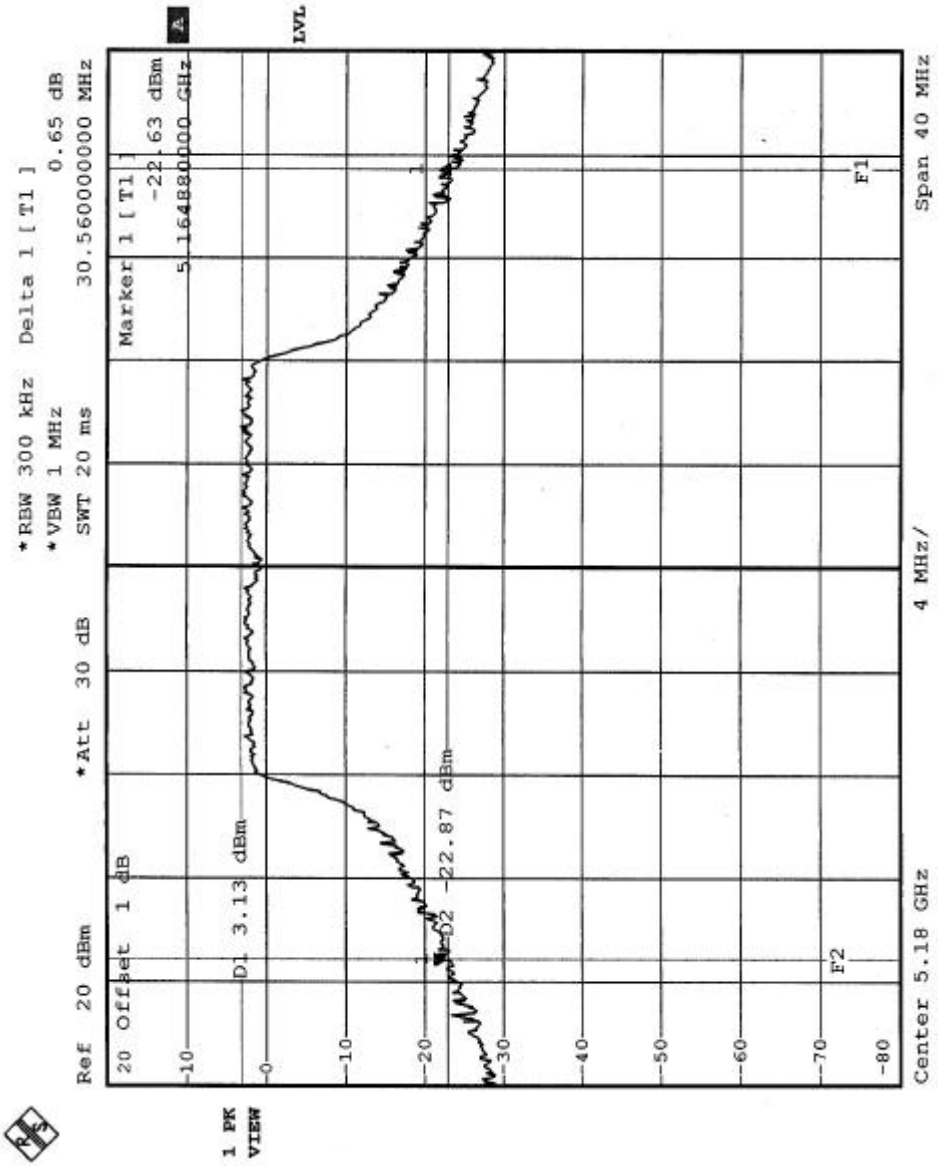
CHANNEL 9


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
4.96 dBm
5.742120000 GHz
A
LVL
1 SA *
MAXH
Center 5.745 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
30.32 MHz
Power
15.52 dBm

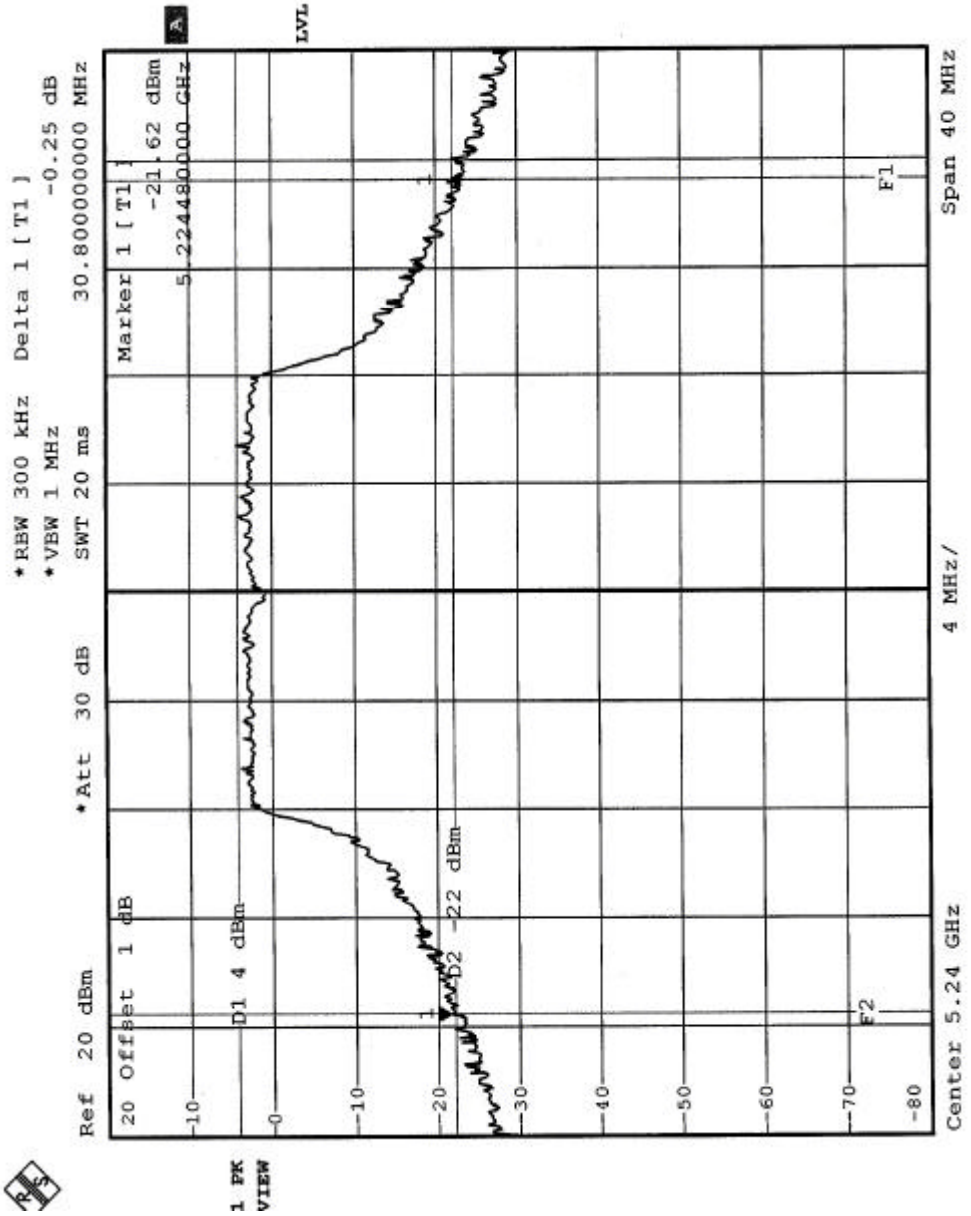
CHANNEL 12


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
4.61 dBm
5.802280000 GHz
1 SA*
MAXH
LVL
Center 5.805 GHz
4 MHz/
Span 40 MHz
Tx Channel
Bandwidth
32.72 MHz
Power
15.14 dBm

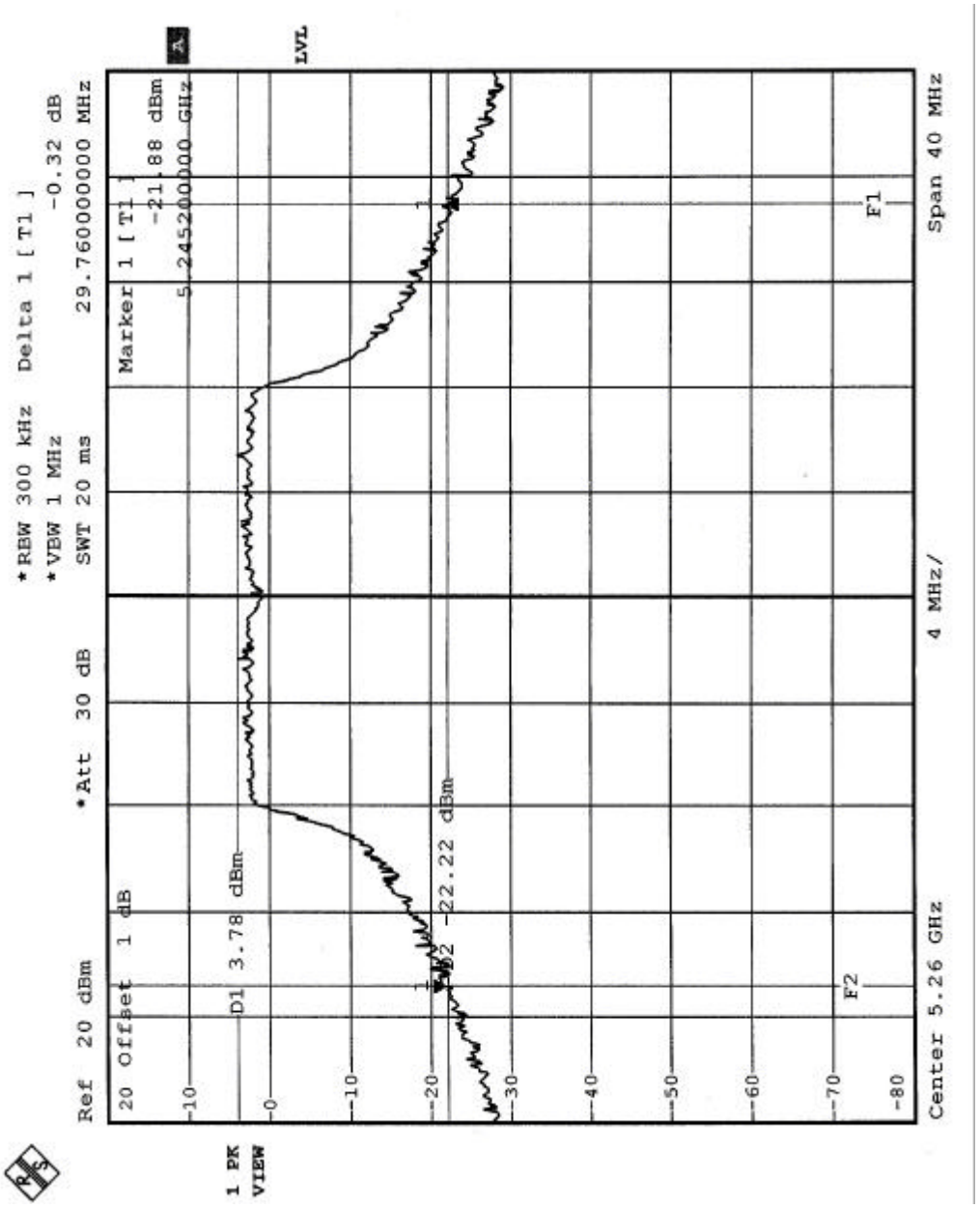
CHANNEL 1


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.65 dB
30.56000000 MHz
Marker 1 [T1]
-22.63 dBm
5.16480000 GHz
D1 3.13 dBm
D2 -22.87 dBm
F1
F2
LVL
1 PK
VIEW
Center 5.18 GHz
4 MHz/
Span 40 MHz

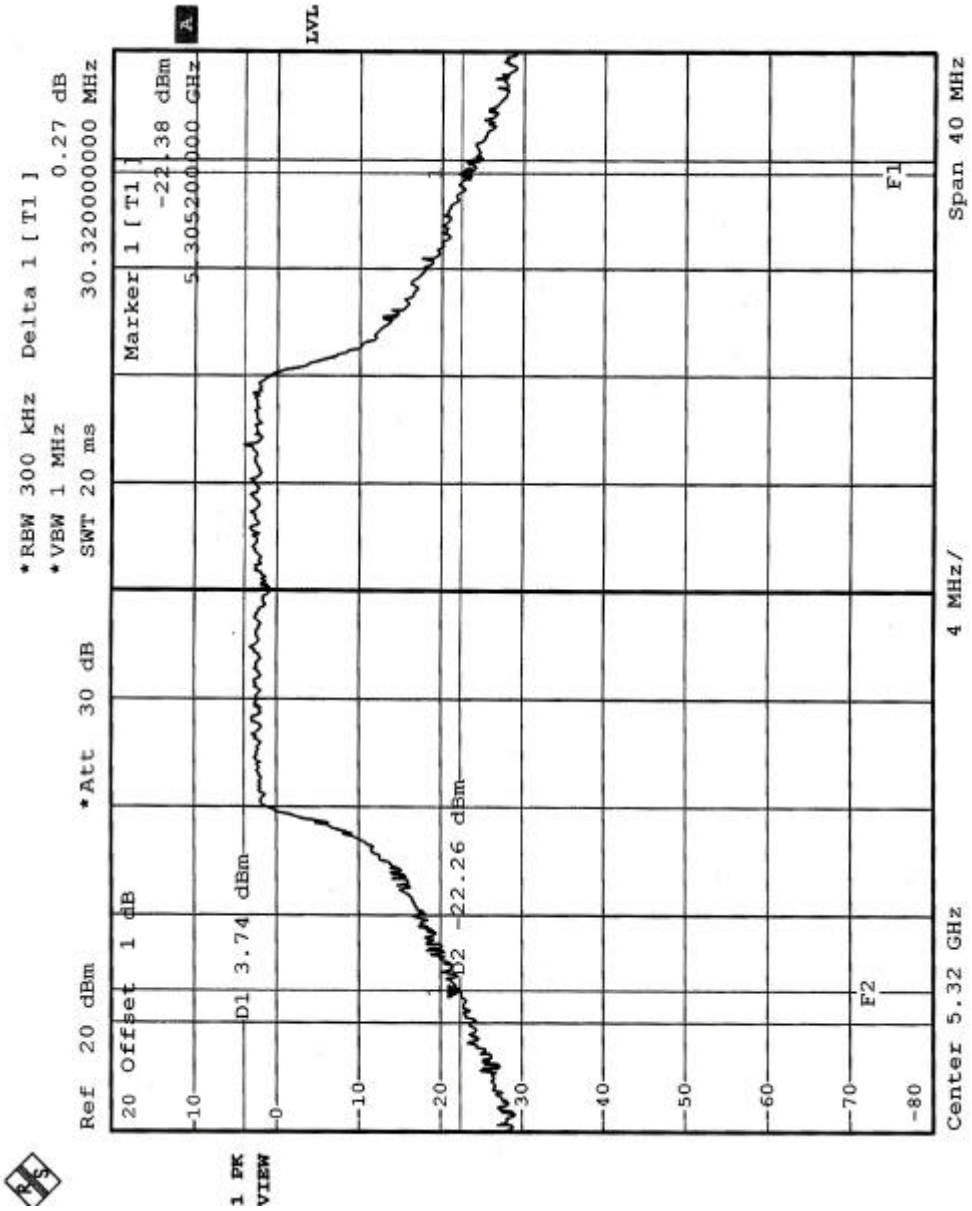
CHANNEL 4


Ref 20 dBm
Att 30 dB
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
-0.25 dB
30.800000000 MHz
Marker 1 [T1]
-21.62 dBm
5.224800000 GHz
Offset 1 dB
D1 4 dBm
D2 -22 dBm
F1
F2
LVL
Center 5.24 GHz
4 MHz/
Span 40 MHz

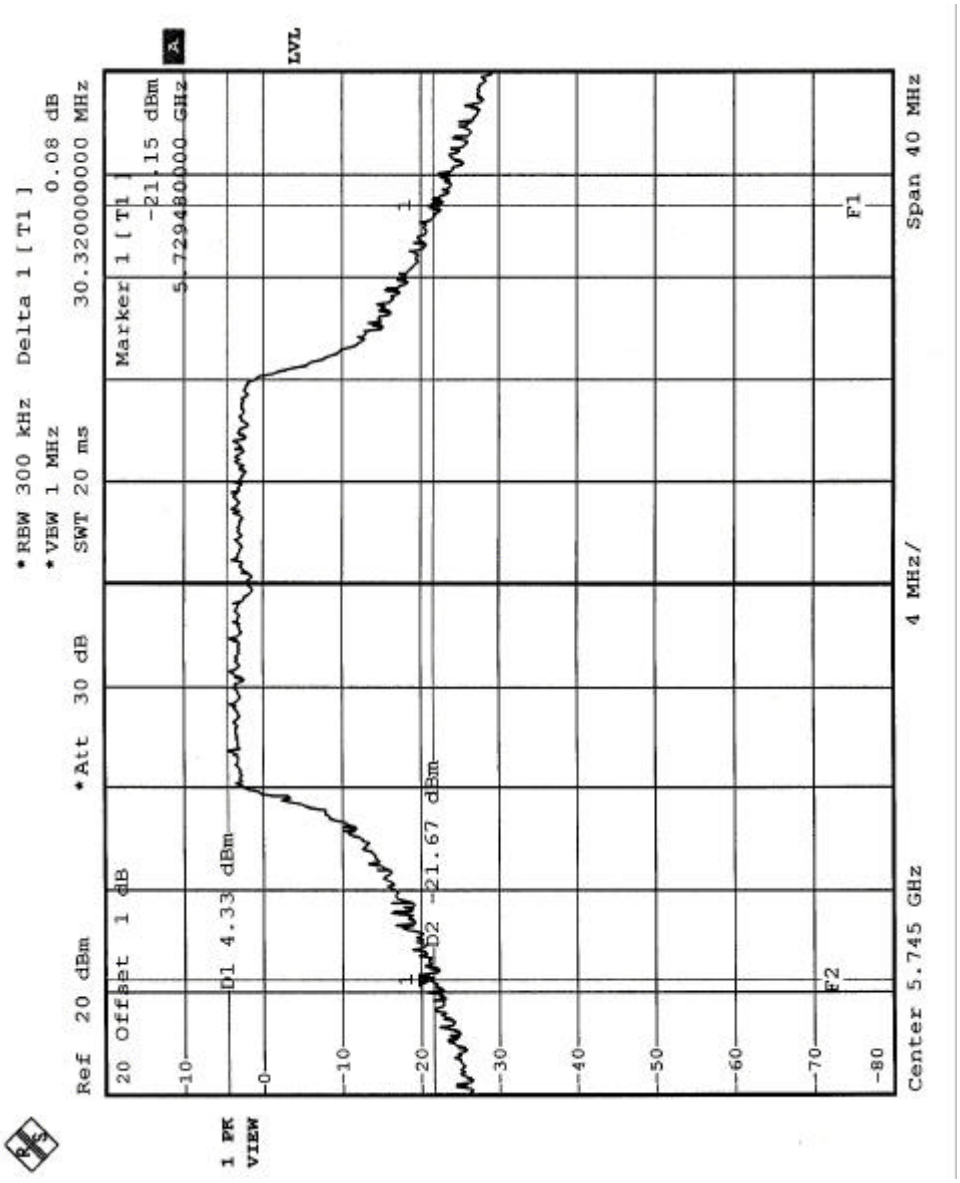
CHANNEL 5


Ref 20 dBm
Att 30 dB
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
-0.32 dB
29.760000000 MHz
Marker 1 [T1]
-21.88 dBm
5.245200000 GHz
LVL
Span 40 MHz
4 MHz/
Center 5.26 GHz
1 PK
VIEW
D1 3.78 dBm
-22.22 dBm
F1
F2

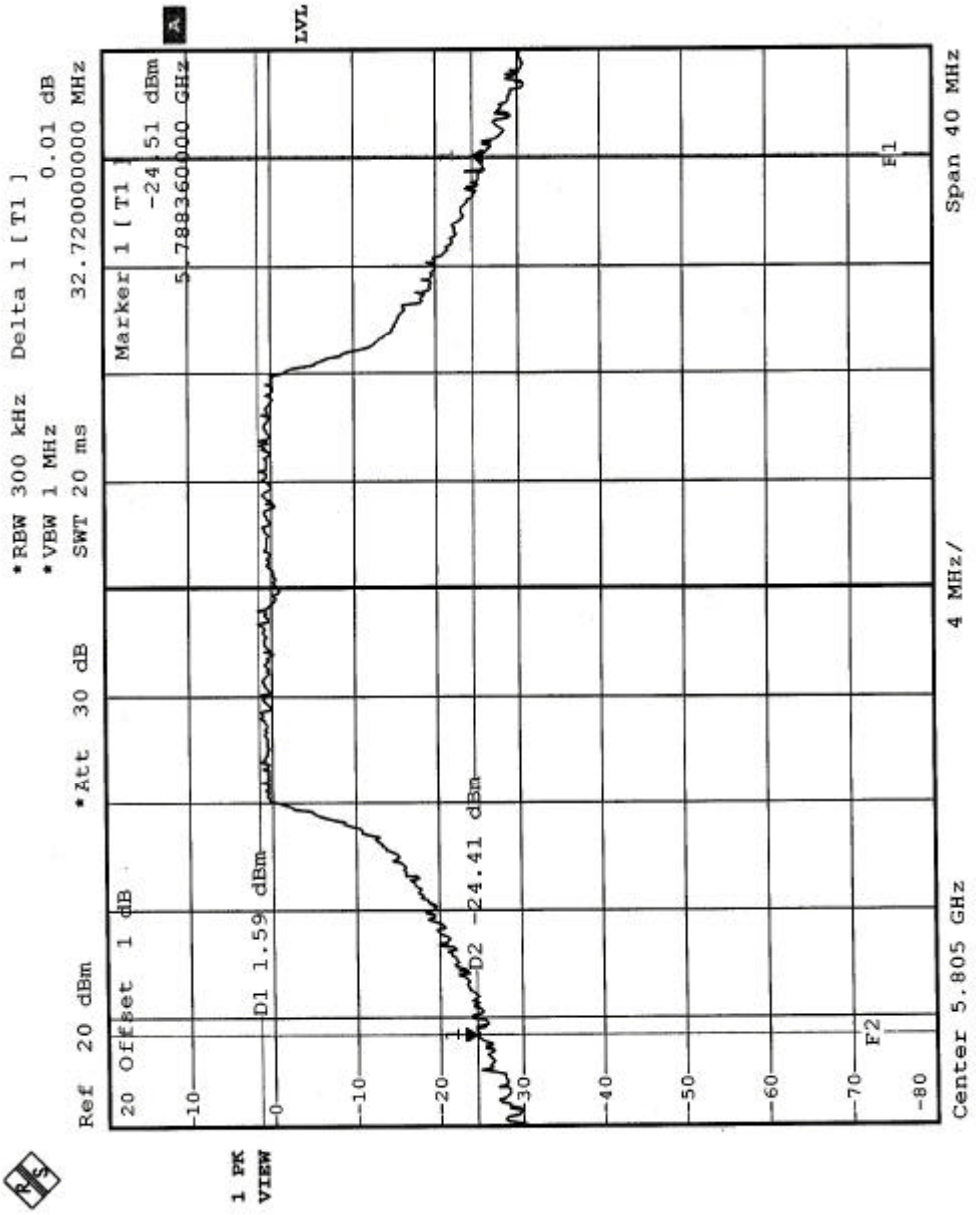
CHANNEL 8


Ref 20 dBm
Att 30 dB
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.27 dB
30.320000000 MHz
Marker 1 [T1]
-22.38 dBm
5.305200000 GHz
20 Offset 1 dB
D1 3.74 dBm
D2 -22.26 dBm
LVL
1 PK
VIEW
Center 5.32 GHz
4 MHz/
Span 40 MHz

CHANNEL9


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1] 0.08 dB
30.320000000 MHz
Marker 1 [T1]
-21.15 dBm
5.729480000 GHz
A
LVL
D1 4.33 dBm
D2 -21.67 dBm
F1
F2
1 PK
VIEW
Center 5.745 GHz
4 MHz/
Span 40 MHz

CHANNEL 12

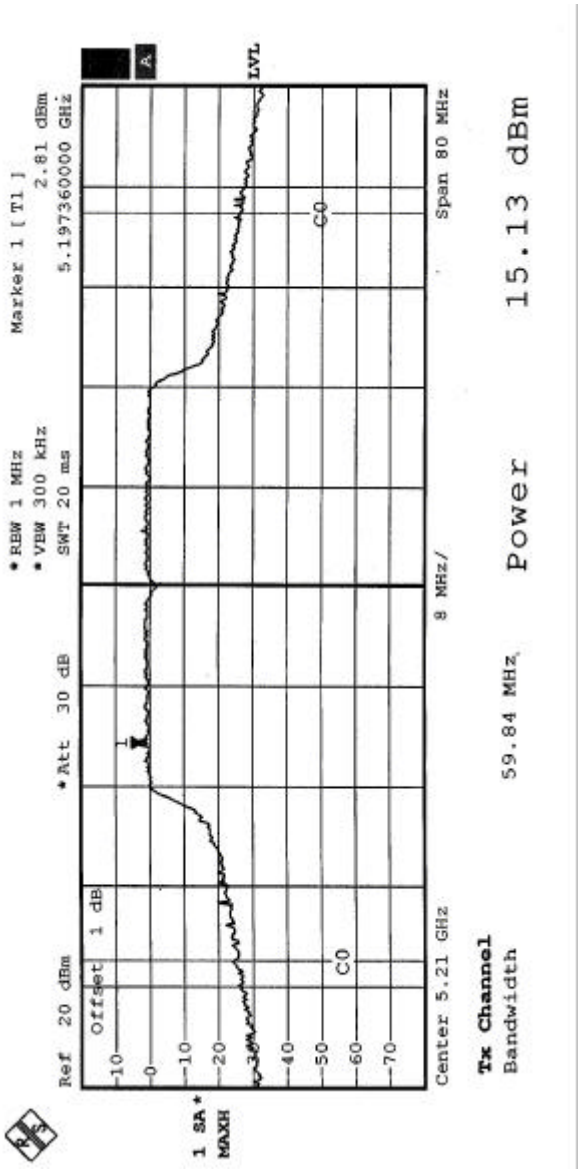

Ref 20 dBm
Att 30 dB
RBW 300 kHz
VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.01 dB
32.72000000 MHz
Marker 1 [T1]
-24.51 dBm
5.788360000 GHz
Offset 1 dB
D1 1.59 dBm
D2 -24.41 dBm
1 PK
VIEW
LVL
Span 40 MHz
4 MHz/
Center 5.805 GHz

EUT	EliteConnect Universal 2.4GHz/5GHz Wireless Access Point	**MODEL**	SMC2555W-AG
MODE	Turbo	**INPUT POWER (SYSTEM)**	120Vac, 60 Hz
ENVIRONMENTAL CONDITIONS	25eg. C, 66RH, 976 hPa	**TESTED BY**	Eric Lee

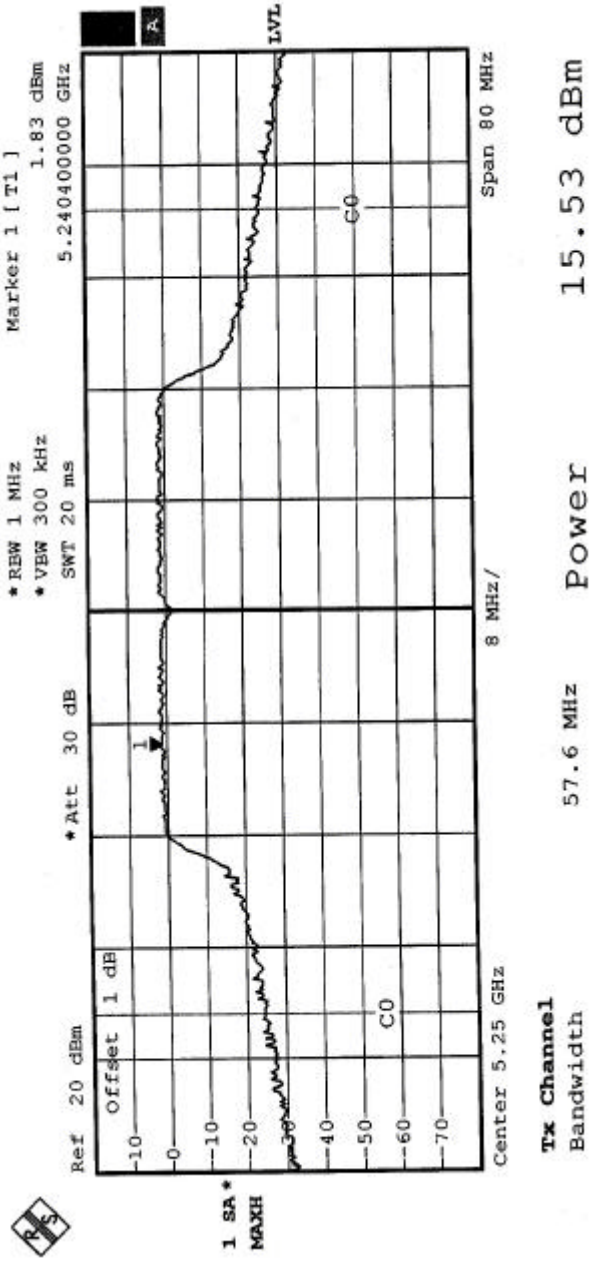
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)	PEAK POWER LIMIT (dBm)	26dBc Occupied Bandwidth (MHz)	PASS/FAIL
1	5210	15.13	17.00	59.84	PASS
2	5250	15.53	24.00	57.60	PASS
3	5290	15.57	24.00	60.96	PASS
4	5760	15.43	30.00	61.76	PASS
5	5800	15.16	30.00	58.56	PASS

NOTE: The 26dBc Occupied Bandwidth plot, please refer to the following pages.

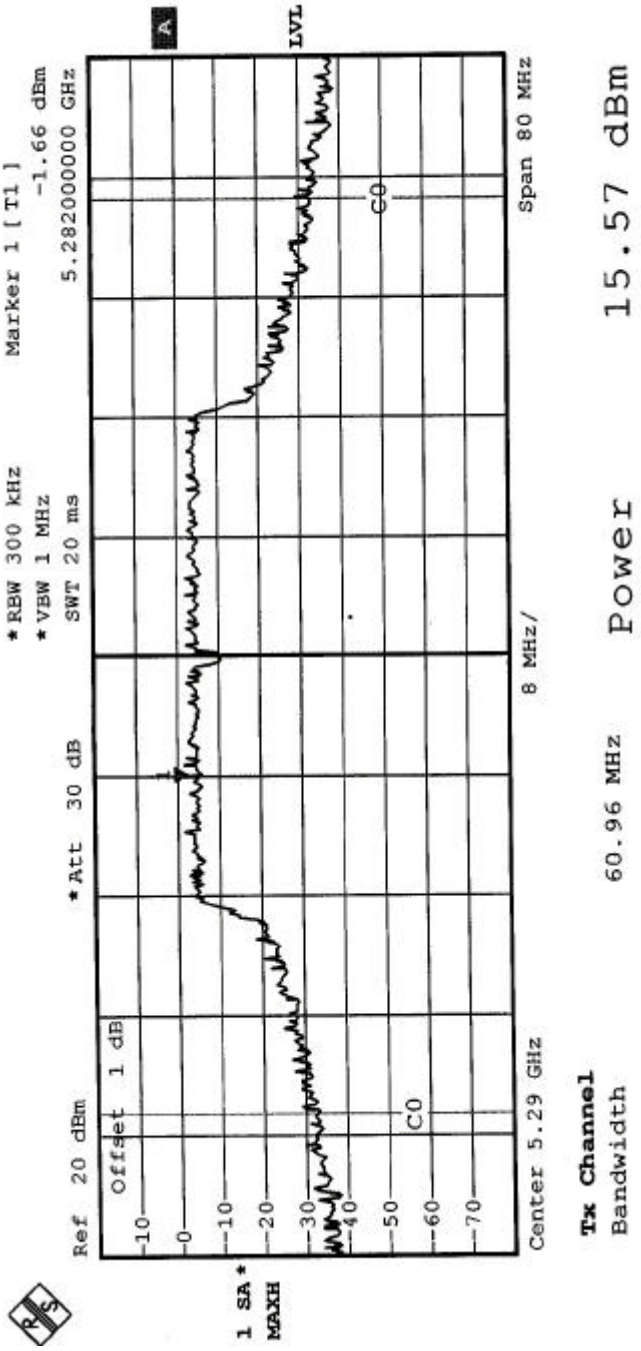
CHANNEL 1


Ref 20 dBm
Offset 1 dB
• Att 30 dB
• RBW 1 MHz
• VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
2.81 dBm
5.197360000 GHz
1 SA *
MAXH
LVL
Center 5.21 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
59.84 MHz
Power
15.13 dBm

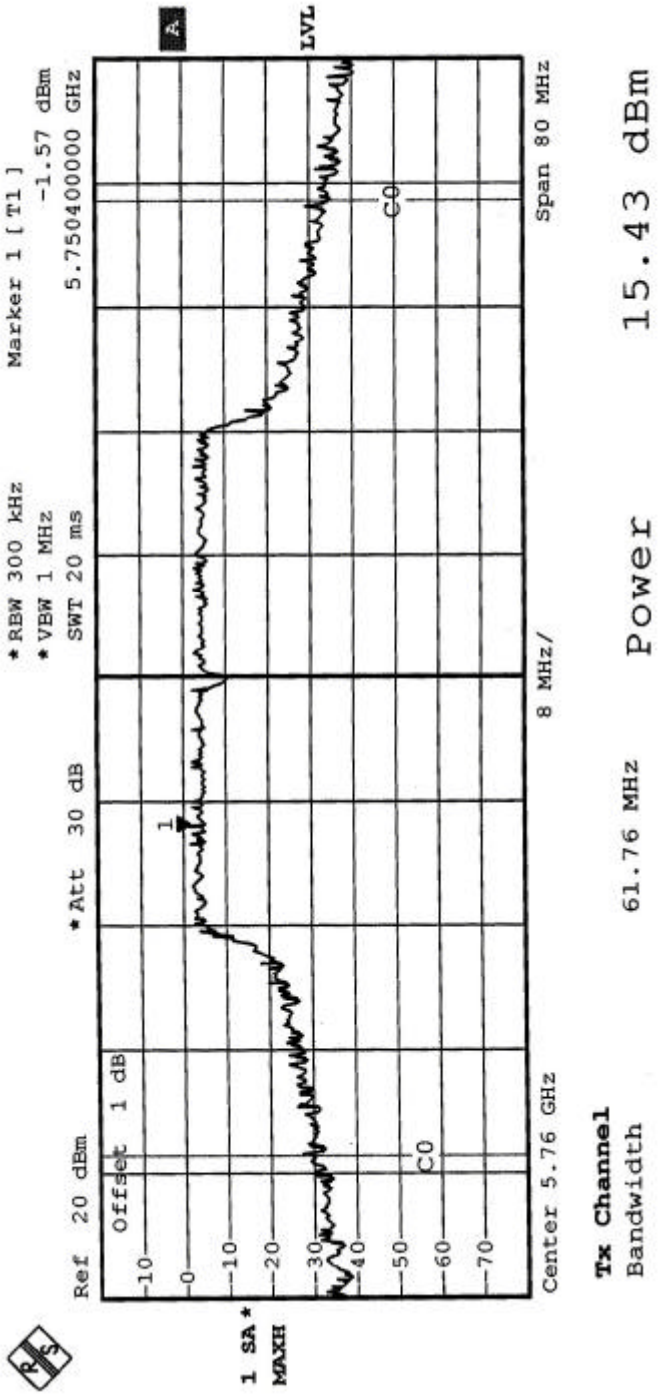
CHANNEL 2


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
1.83 dBm
5.24040000 GHz
LVL
Center 5.25 GHz
8 MHz/
Span 80 MHz
1 SA *
MAXH
Tx Channel
Bandwidth
57.6 MHz
Power
15.53 dBm

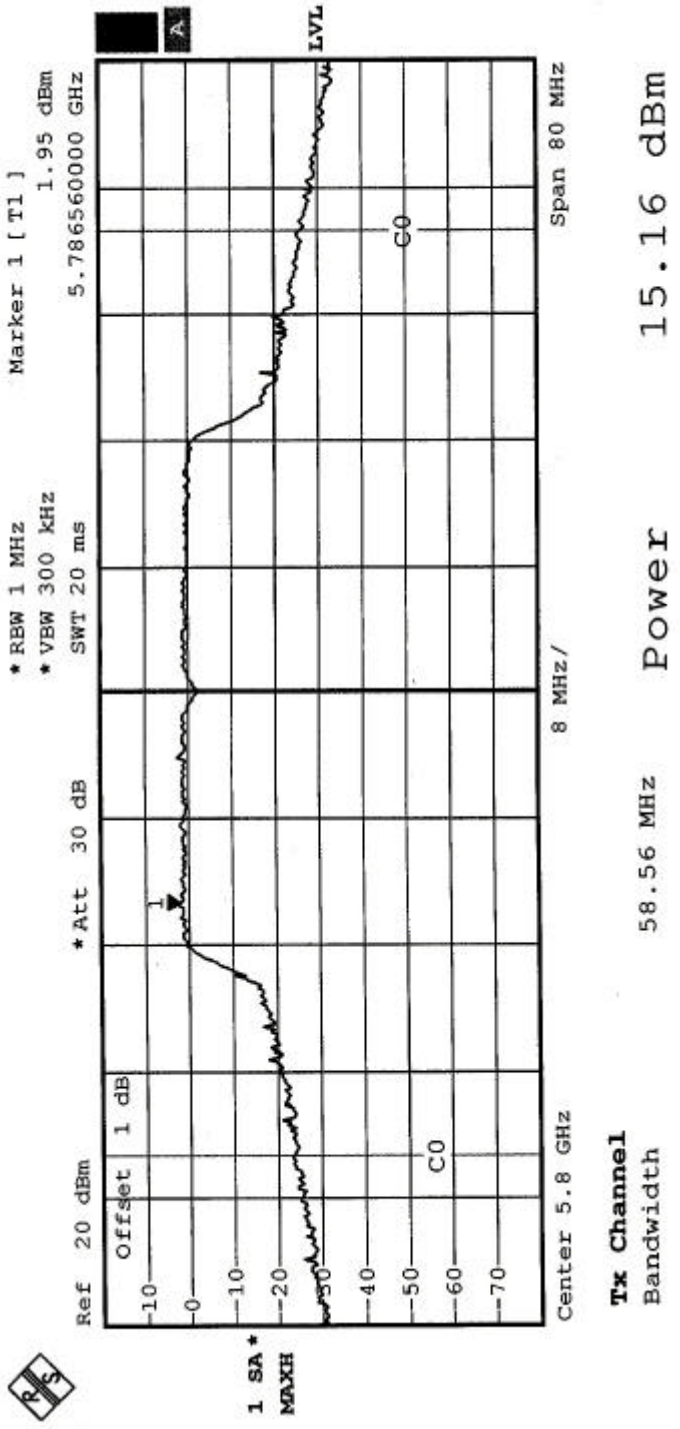
CHANNEL 3


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Marker 1 [T1]
-1.66 dBm
5.282000000 GHz
A
LVL
1 SA *
MAXH
Center 5.29 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
60.96 MHz
Power
15.57 dBm

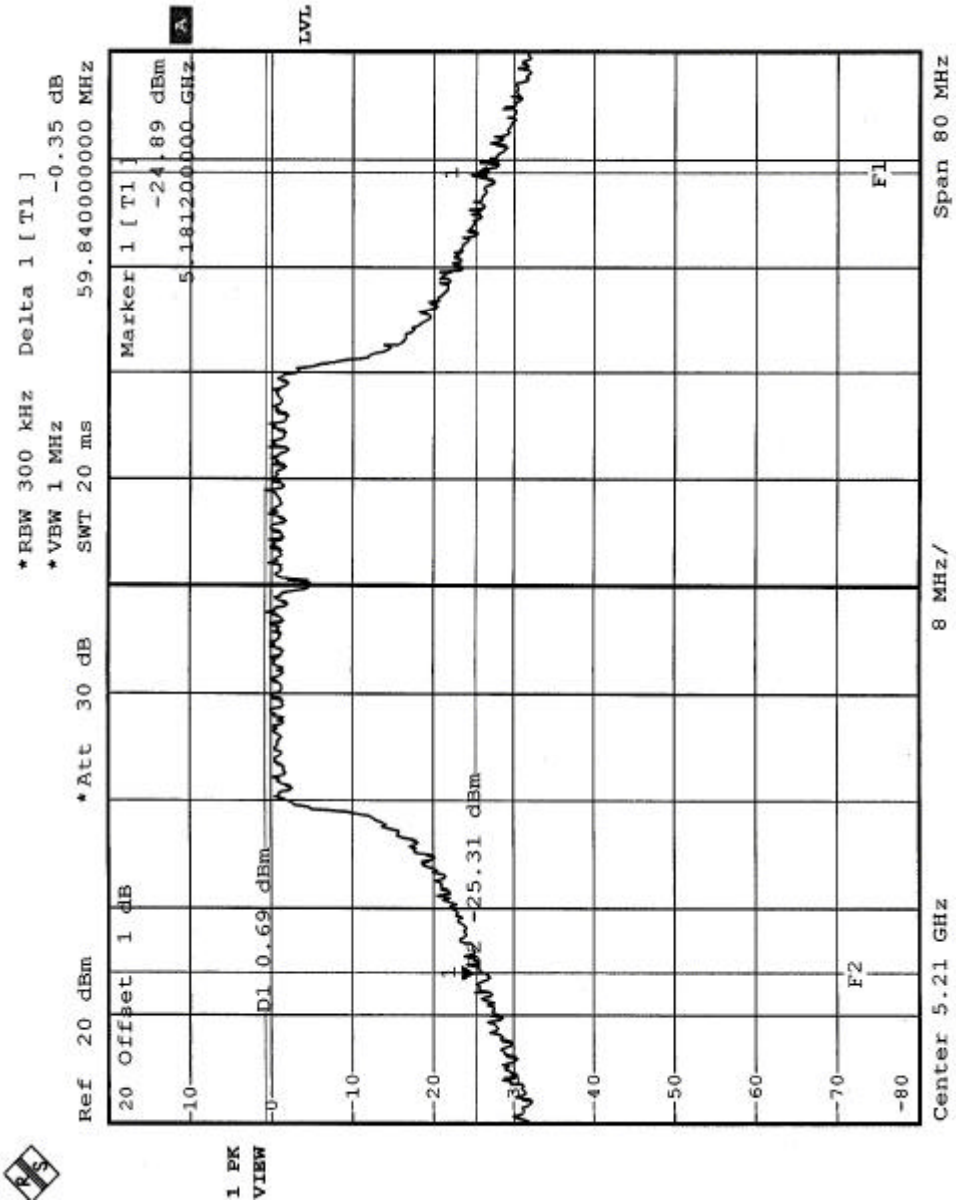
CHANNEL 4


Ref 20 dBm
Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Marker 1 [T1]
-1.57 dBm
5.750400000 GHz
A
LVL
1 SA *
MAXH
Center 5.76 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
61.76 MHz
Power
15.43 dBm

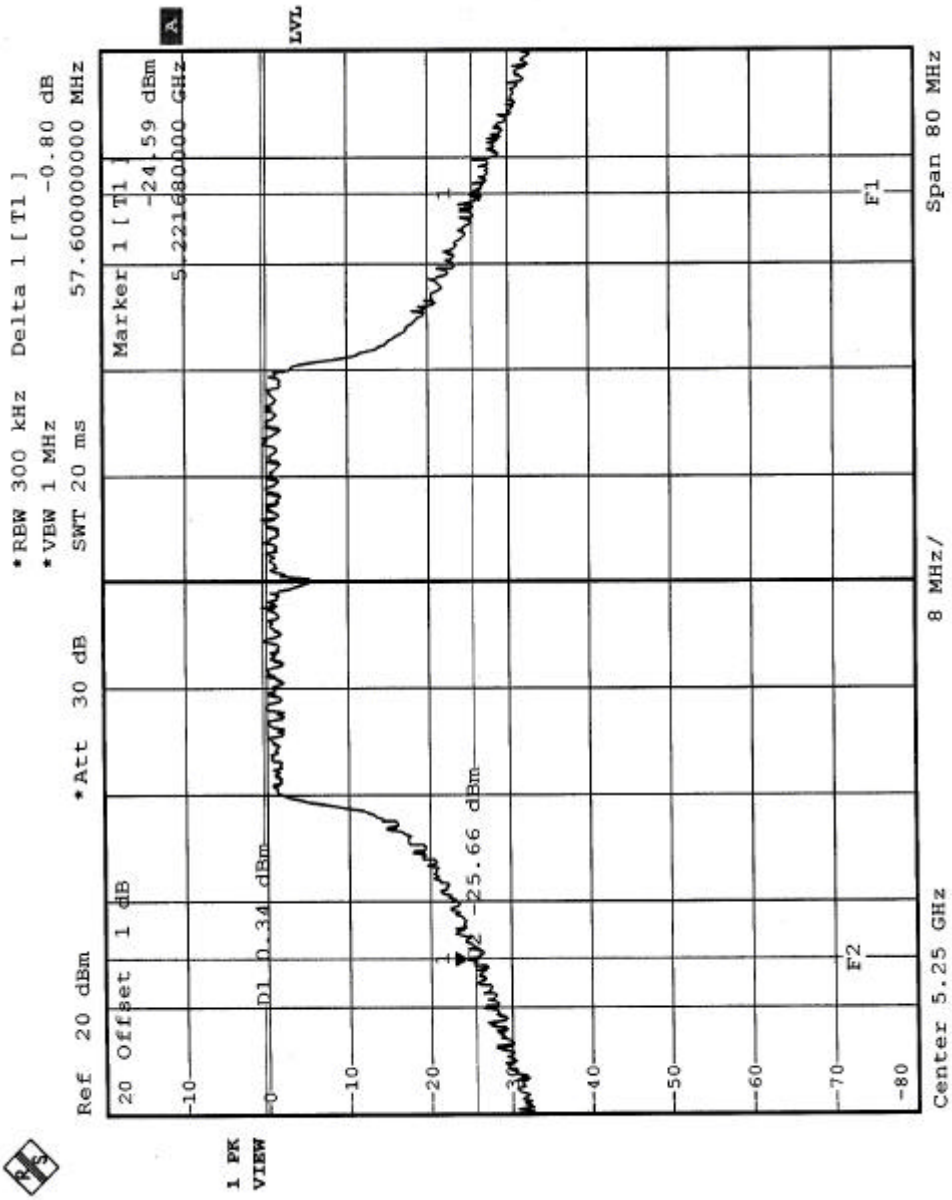
CHANNEL 5


Ref 20 dBm
Offset 1 dB
* Att 30 dB
* RBW 1 MHz
* VBW 300 kHz
SWT 20 ms
Marker 1 [T1]
1.95 dBm
5.78656000 GHz
LVL
1 SA *
MAXH
Center 5.8 GHz
8 MHz/
Span 80 MHz
Tx Channel
Bandwidth
58.56 MHz
Power
15.16 dBm

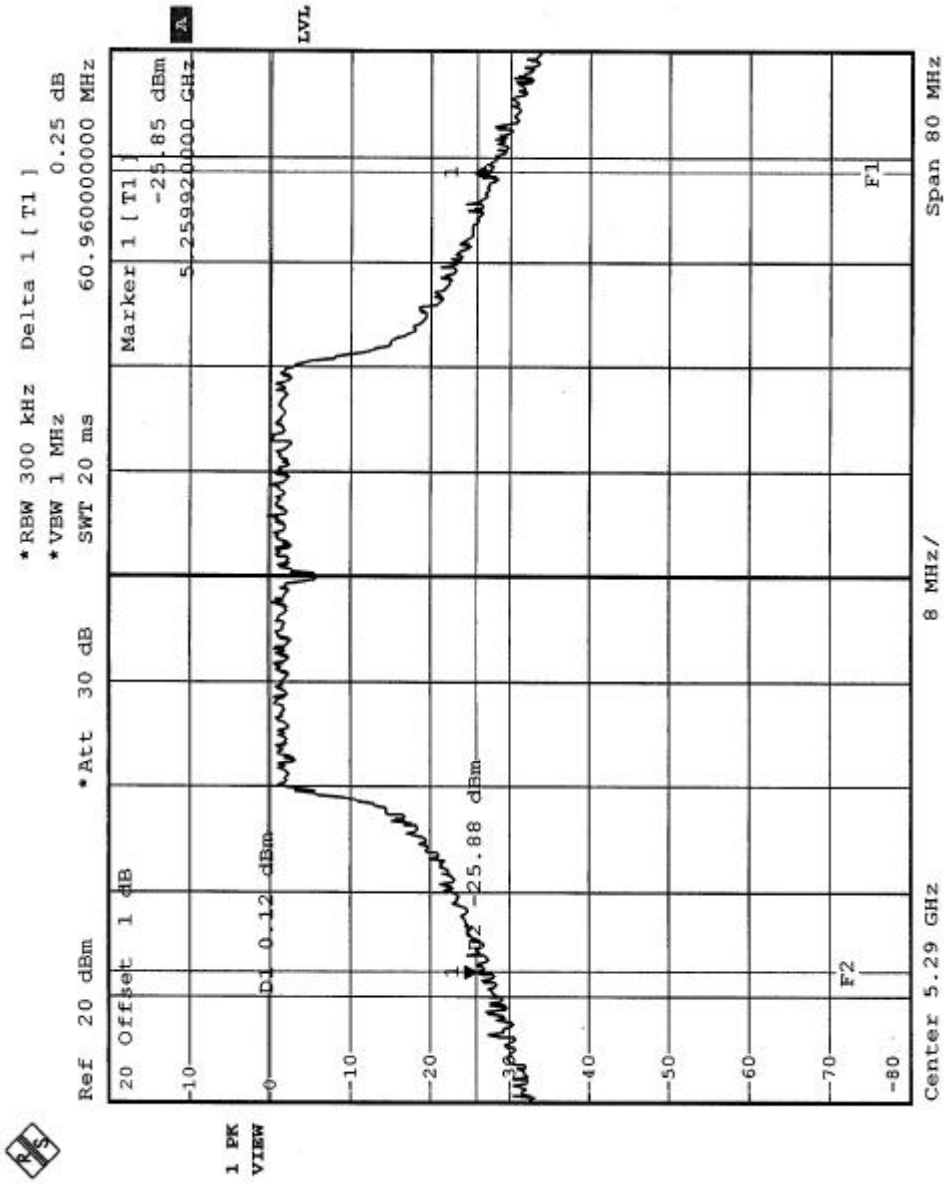
CHANNEL 1


Ref 20 dBm
20 Offset 1 dB
D1 0.69 dBm
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
-0.35 dB
59.840000000 MHz
Marker 1 [T1]
-24.89 dBm
5.18120000 GHz
-25.31 dBm
LVL
1 PK
VIEW
F1
F2
Center 5.21 GHz
8 MHz/
Span 80 MHz

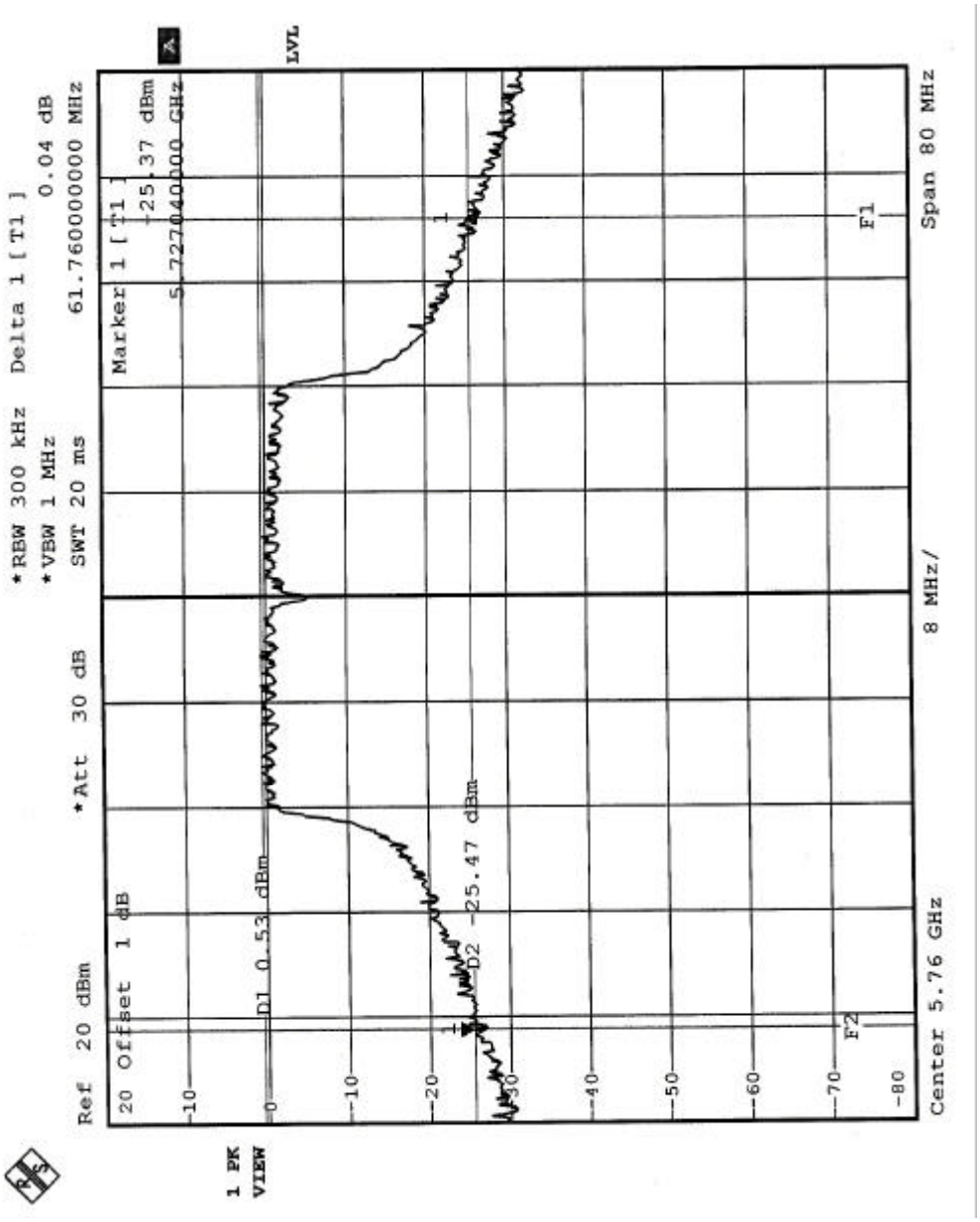
CHANNEL 2


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1] -0.80 dB
57.600000000 MHz
Marker 1 [T1]
-24.59 dBm
5.221680000 GHz
D1 0.34 dBm
-25.66 dBm
LVL
A
1 PK
VIEW
F1
F2
Center 5.25 GHz
8 MHz/
Span 80 MHz

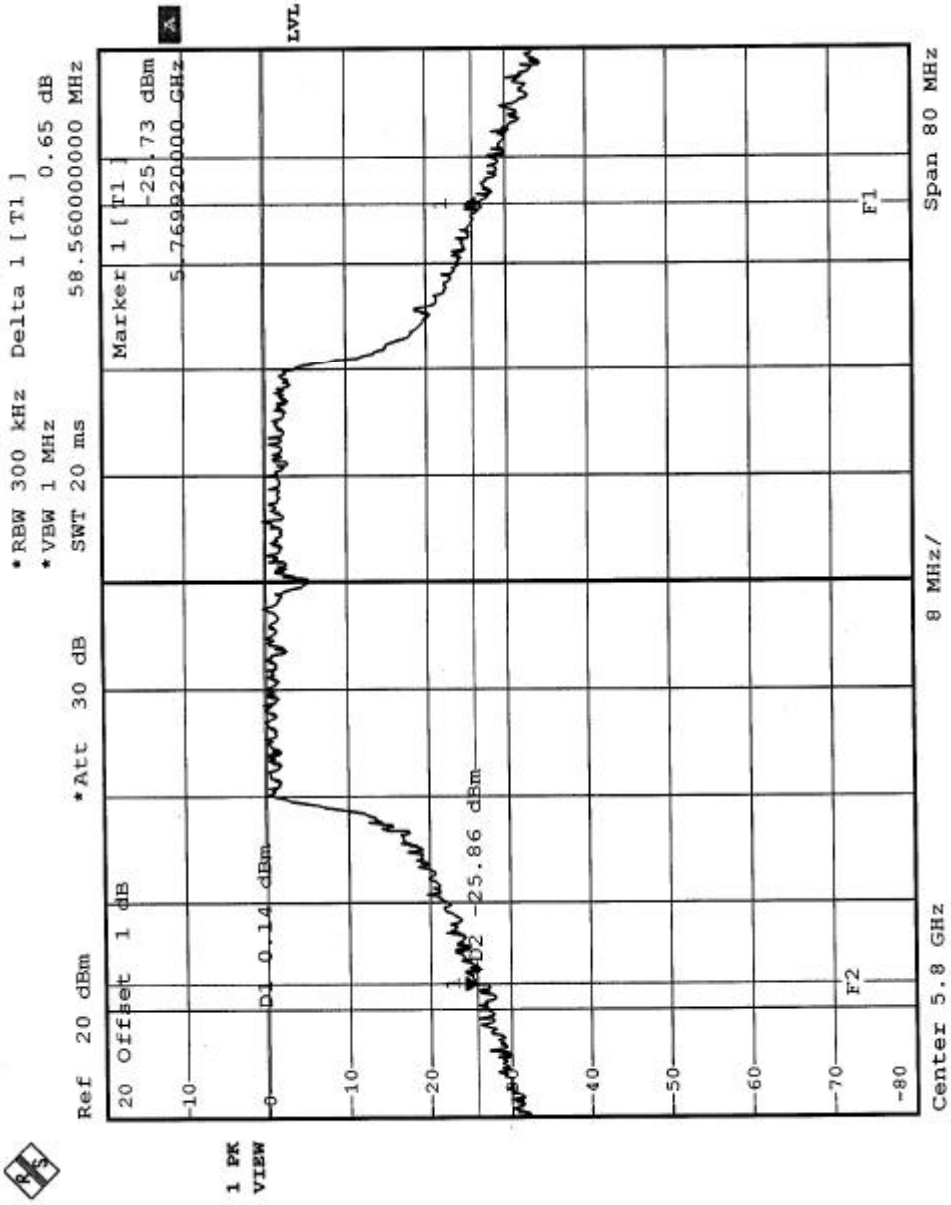
CHANNEL 3


Ref 20 dBm
20 Offset 1 dB
D1 0.12 dBm
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.25 dB
60.96000000 MHz
Marker 1 [T1]
-25.85 dBm
5.25992000 GHz
-25.88 dBm
LVL
A
1 PK
VIEW
F1
F2
Center 5.29 GHz
8 MHz/
Span 80 MHz

CHANNEL 4


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz
*VBW 1 MHz
SWT 20 ms
Delta 1 [T1]
0.04 dB
61.760000000 MHz
Marker 1 [T1]
-25.37 dBm
5.727040000 GHz
D1 0.53 dBm
D2 -25.47 dBm
1 PK
VIEW
LVL
F1
F2
Center 5.76 GHz
8 MHz/
Span 80 MHz

CHANNEL 5


Ref 20 dBm
20 Offset 1 dB
*Att 30 dB
*RBW 300 kHz Delta 1 [T1]
*VBW 1 MHz 0.65 dB
SWT 20 ms 58.56000000 MHz
Marker 1 [T1]
-25.73 dBm
5.76920000 GHz
LVL
D1 0.14 dBm
D2 -25.86 dBm
F1
F2
1 PK
VIEW
Span 80 MHz
8 MHz/
Center 5.8 GHz

5.4 PEAK POWER EXCURSION MEASUREMENT

5.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	13dB
5.25 – 5.35 GHz	13dB
5.725 – 5.825 GHz	13dB

5.4.2 TEST INSTRUMENTS

Description & Manufacturer	Model No.	Serial No.	Calibrated Until
R&S SPECTRUM ANALYZER	FSP30	100019	Dec. 19, 2003

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