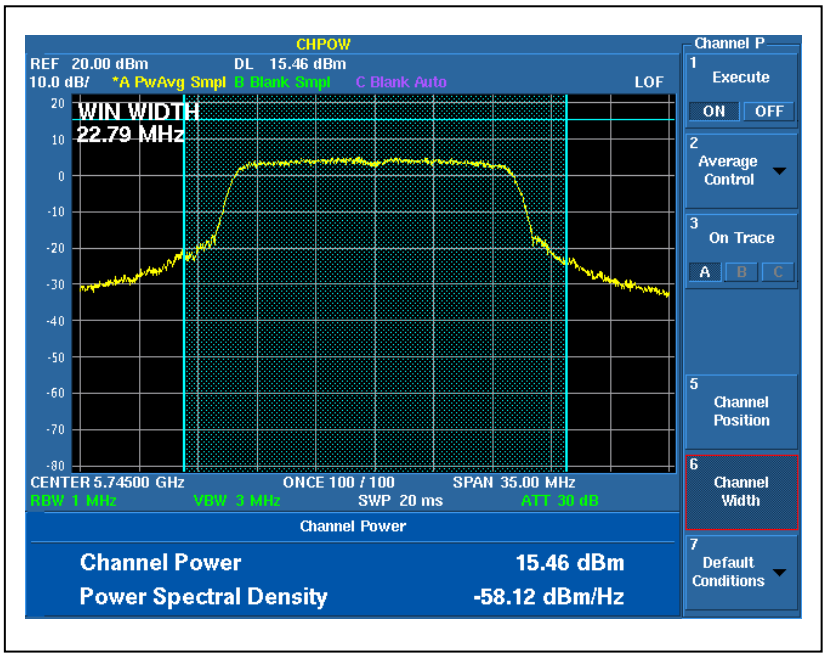
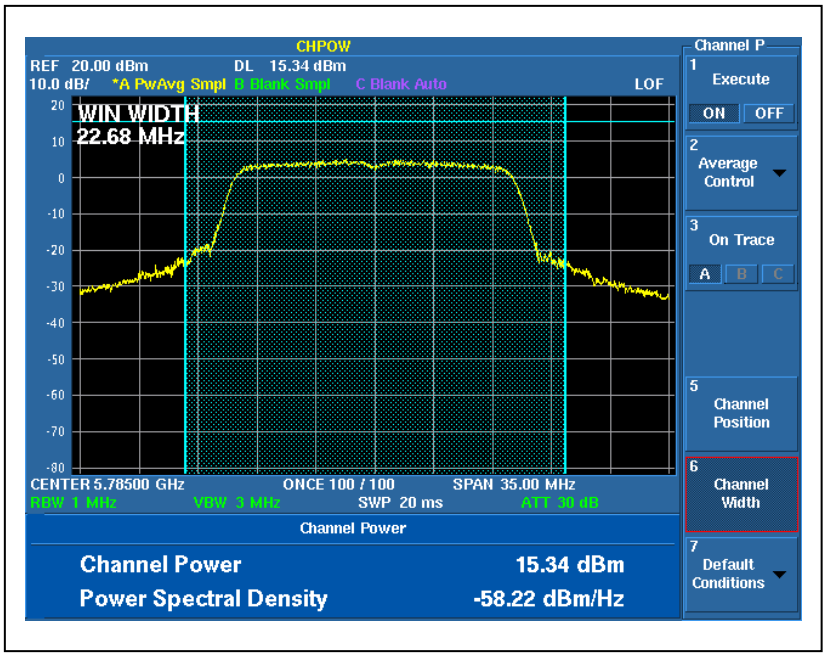
CH19


CHPOW
REF 20.00 dBm
DL 14.10 dBm
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
22.05 MHz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.10 dBm
Power Spectral Density -59.33 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

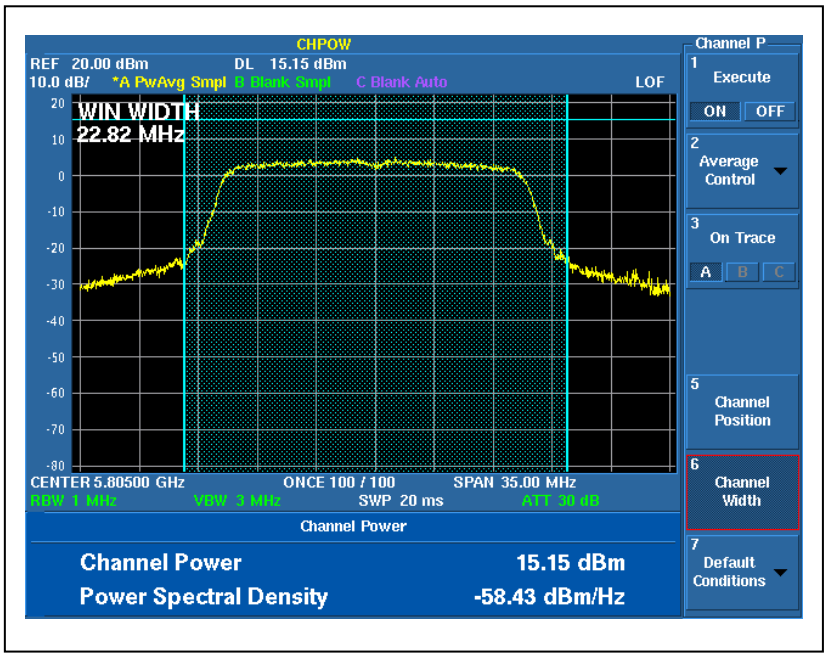
CH20


CHPOW
REF 20.00 dBm
DL 15.46 dBm
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
22.79 MHz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.46 dBm
Power Spectral Density -58.12 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

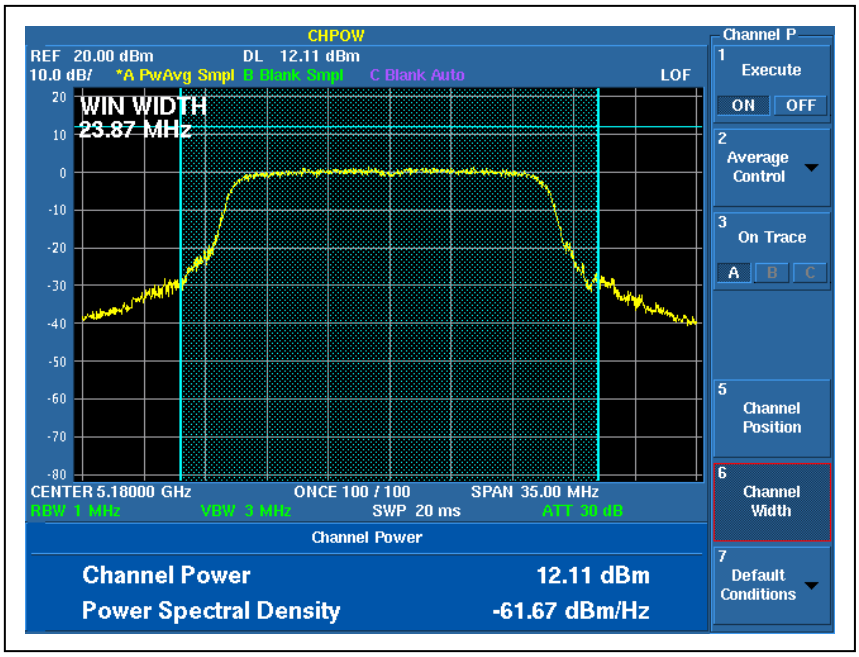
CH22


CHPOW
REF 20.00 dBm
DL 15.34 dBm
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
22.68 MHz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.34 dBm
Power Spectral Density -58.22 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

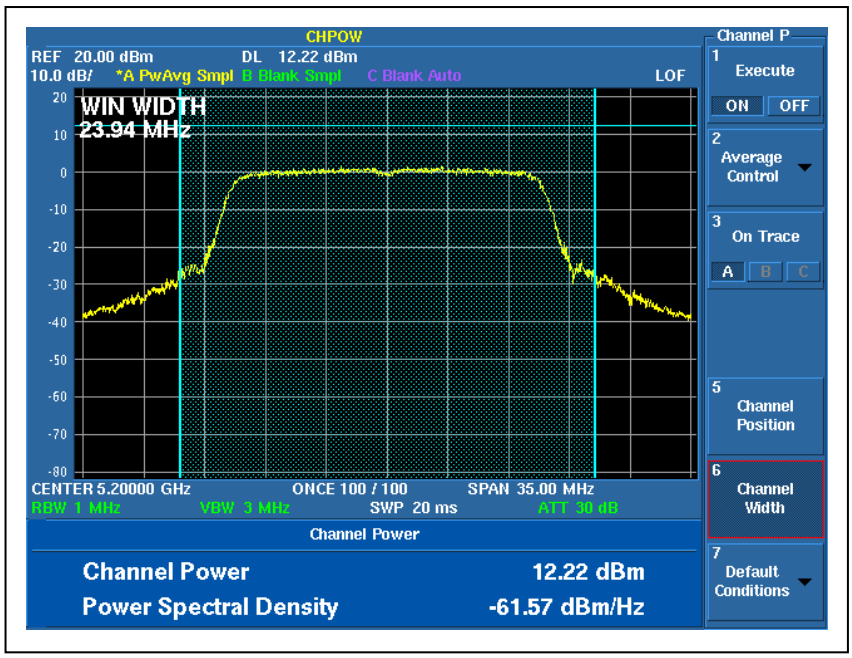
CH23


CHPOW
REF 20.00 dBm
DL 15.15 dBm
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
22.82 MHz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.15 dBm
Power Spectral Density -58.43 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

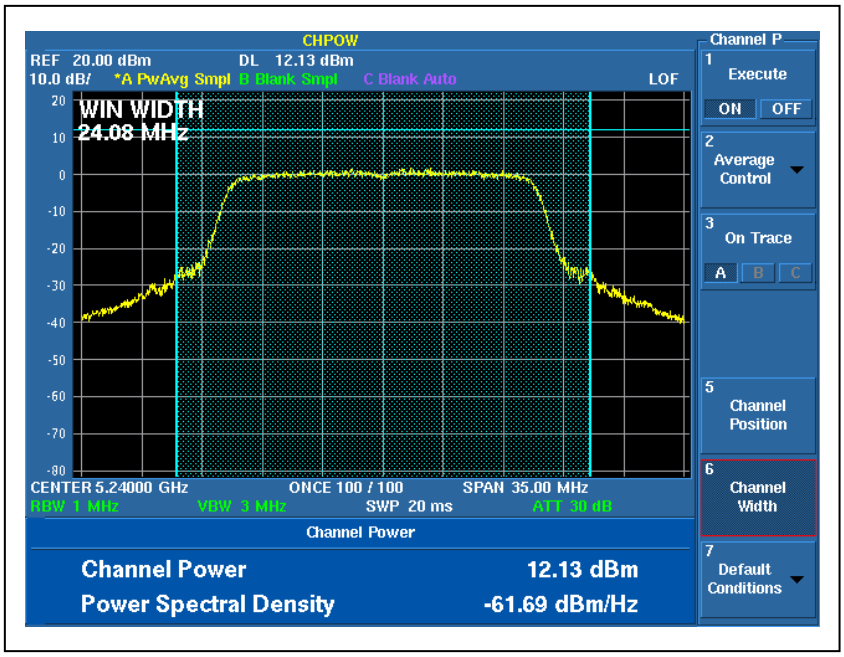
For Chain (1) :CH1



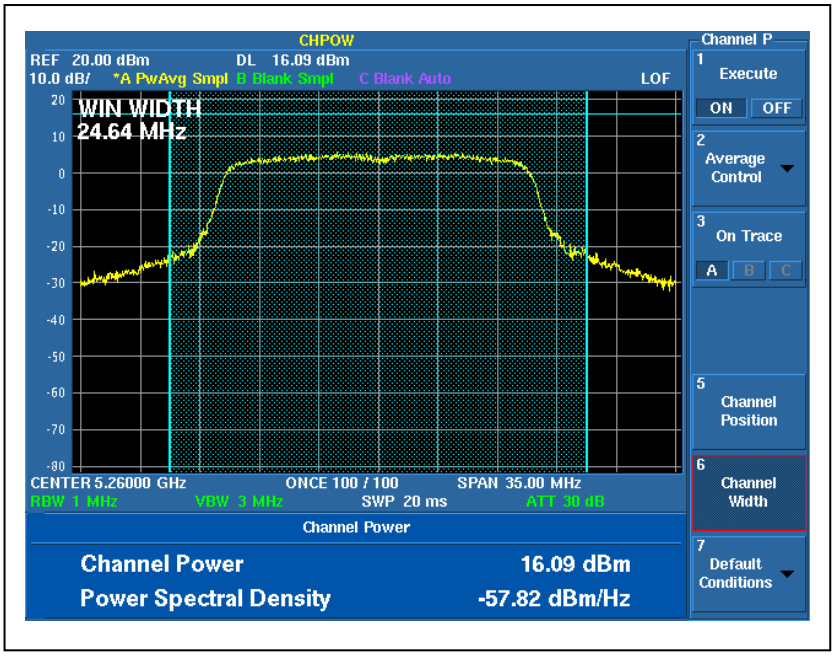
CH2



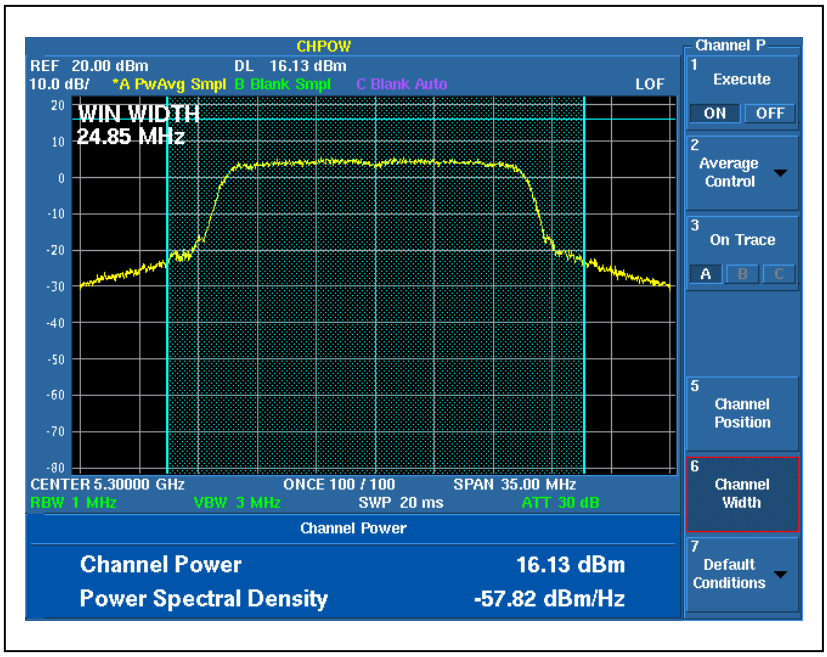
CH4


CHPOW
REF 20.00 dBm
DL 12.13 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
24.08 MHz
CENTER 5.24000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 12.13 dBm
Power Spectral Density -61.69 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

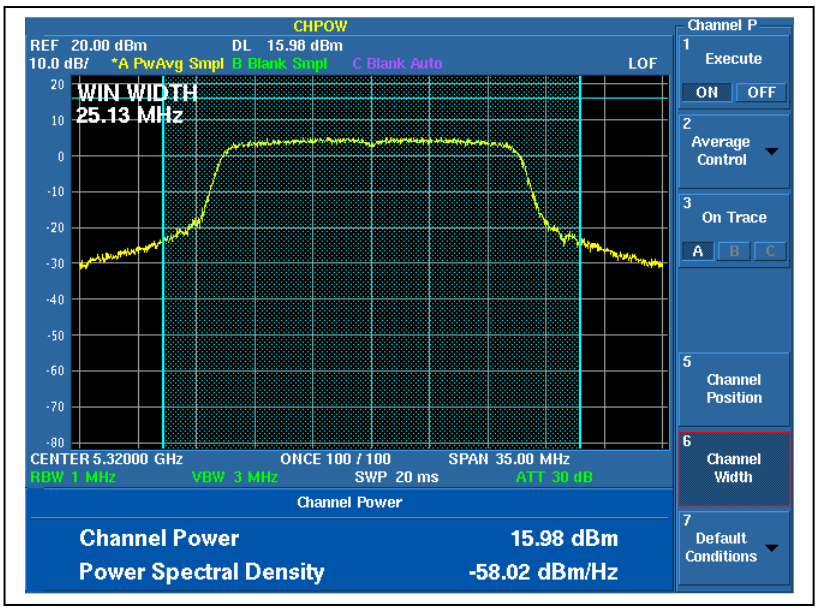
CH5


CHPOW
REF 20.00 dBm
DL 16.09 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
24.64 MHz
CENTER 5.26000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 16.09 dBm
Power Spectral Density -57.82 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

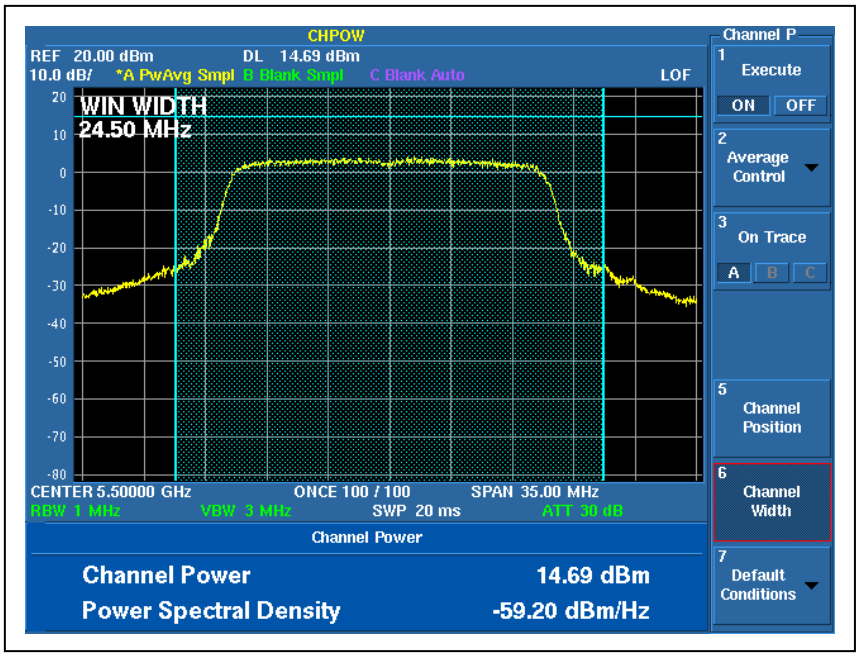
CH7


CHPOW
REF 20.00 dBm
DL 16.13 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
24.85 MHz
CENTER 5.30000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 16.13 dBm
Power Spectral Density -57.82 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

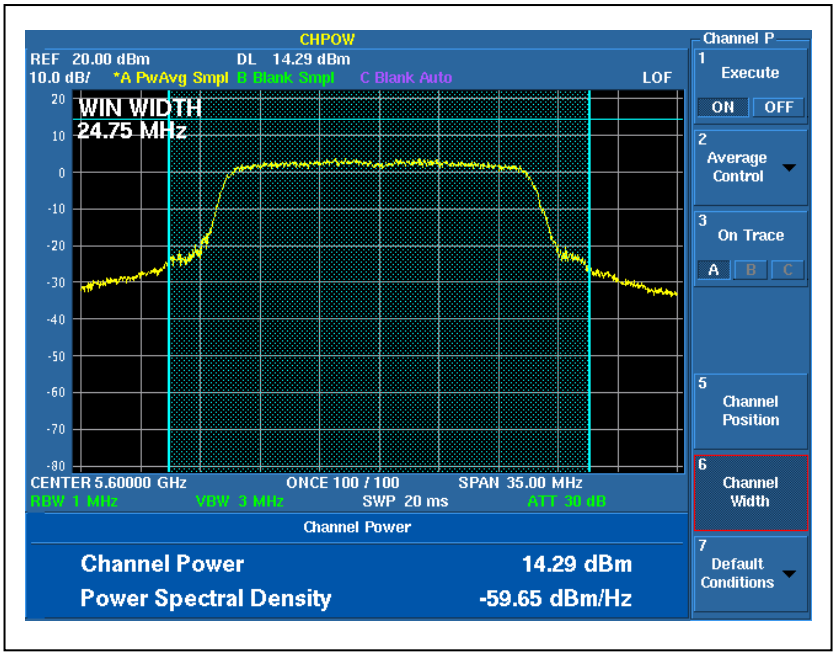
CH8


CHPOW
REF 20.00 dBm
DL 15.98 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
25.13 MHz
CENTER 5.32000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.98 dBm
Power Spectral Density -58.02 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

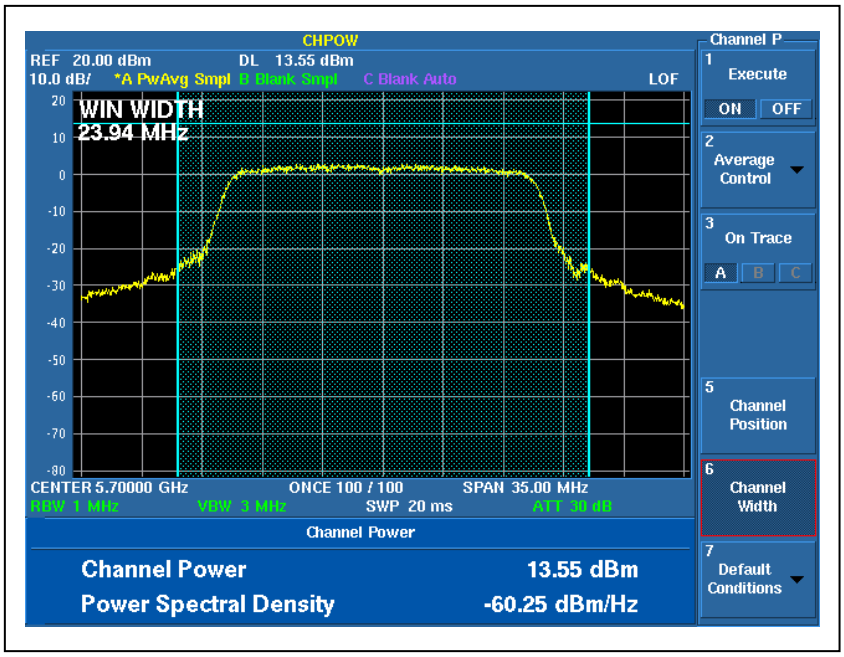
CH9


CHPOW
REF 20.00 dBm
DL 14.69 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
24.50 MHz
CENTER 5.50000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.69 dBm
Power Spectral Density -59.20 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

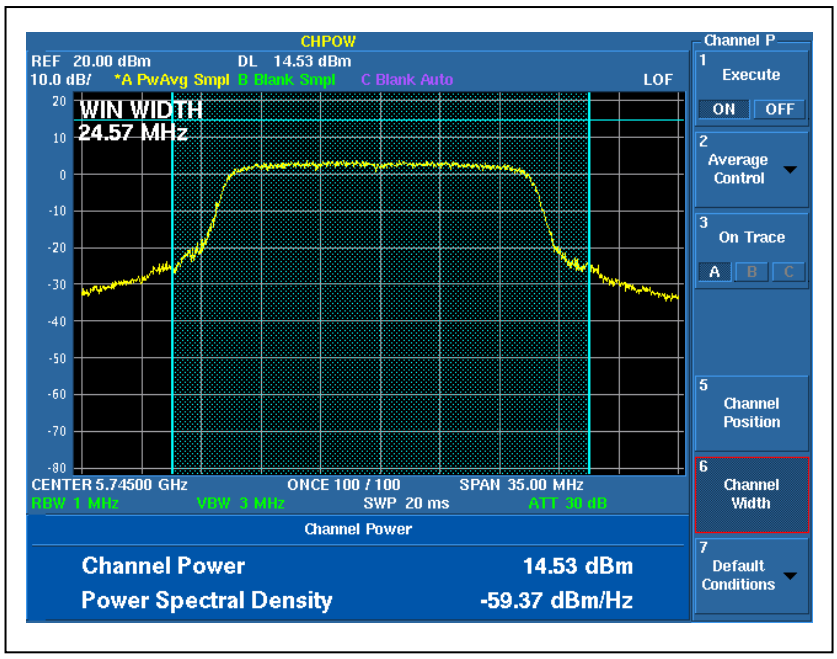
CH14


CHPOW
REF 20.00 dBm
DL 14.29 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
24.75 MHz
CENTER 5.60000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.29 dBm
Power Spectral Density -59.65 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

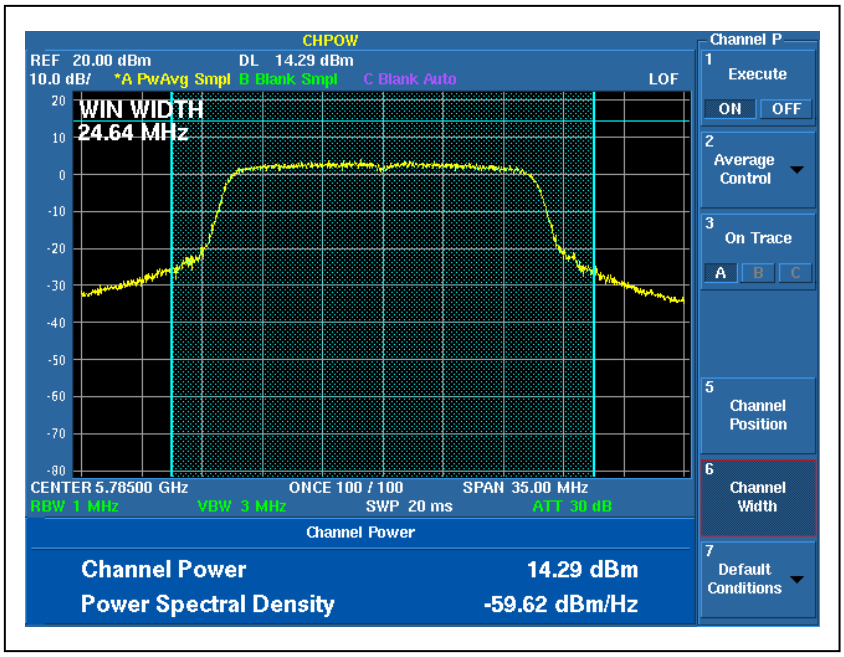
CH19


CHPOW
REF 20.00 dBm
DL 13.55 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
23.94 MHz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 13.55 dBm
Power Spectral Density -60.25 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

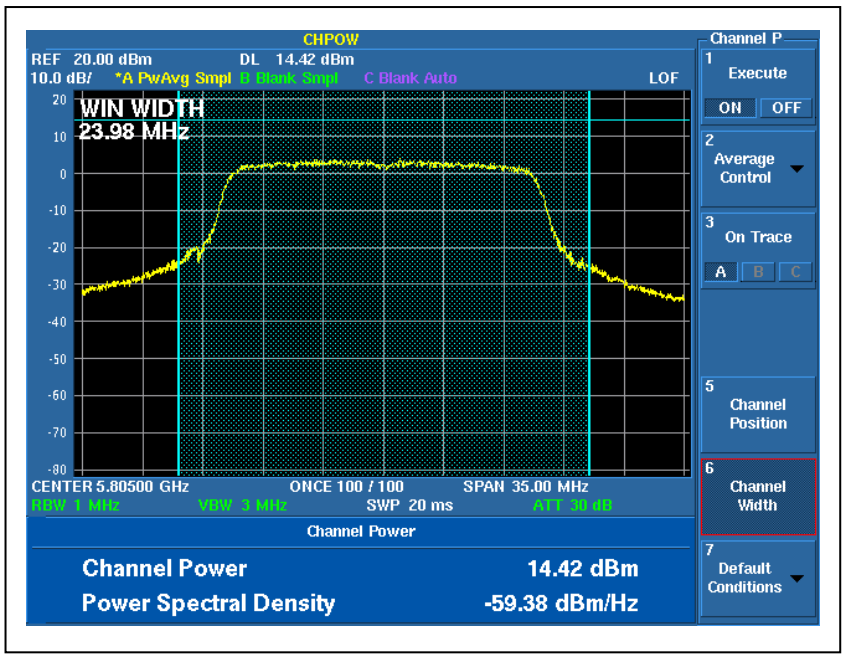
CH20


CHPOW
REF 20.00 dBm
DL 14.53 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
24.57 MHz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.53 dBm
Power Spectral Density -59.37 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

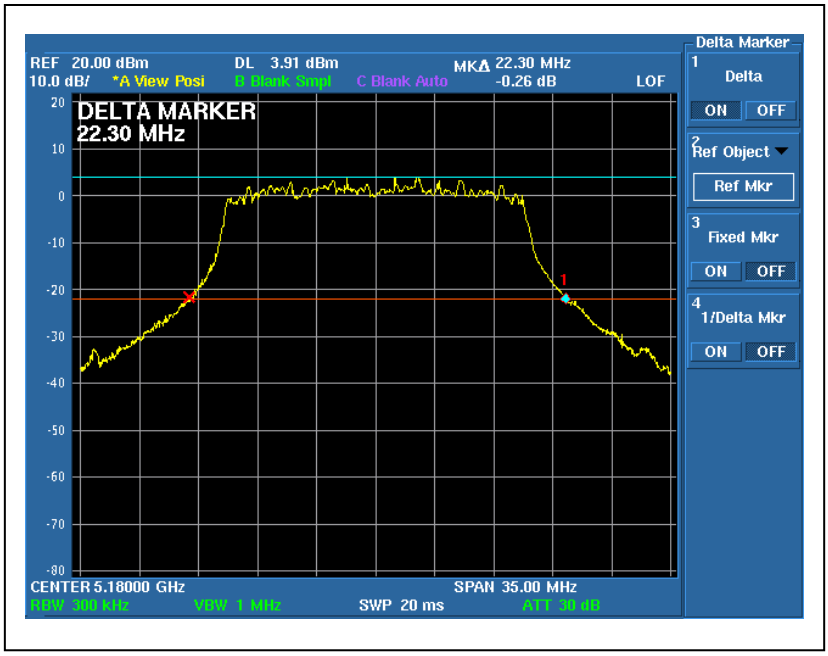
CH22


CHPOW
REF 20.00 dBm
DL 14.29 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
24.64 MHz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.29 dBm
Power Spectral Density -59.62 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

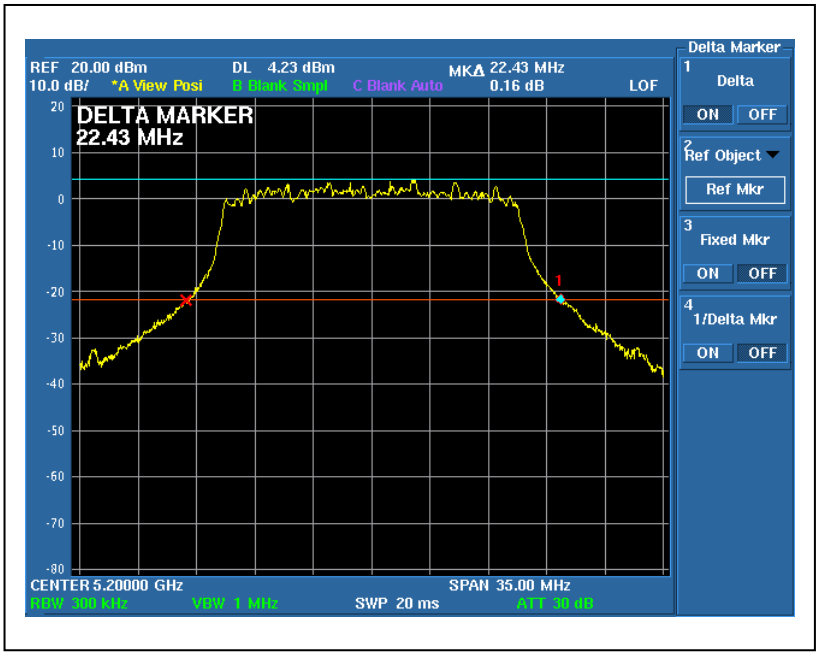
CH23


CHPOW
REF 20.00 dBm
DL 14.42 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
23.98 MHz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.42 dBm
Power Spectral Density -59.38 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

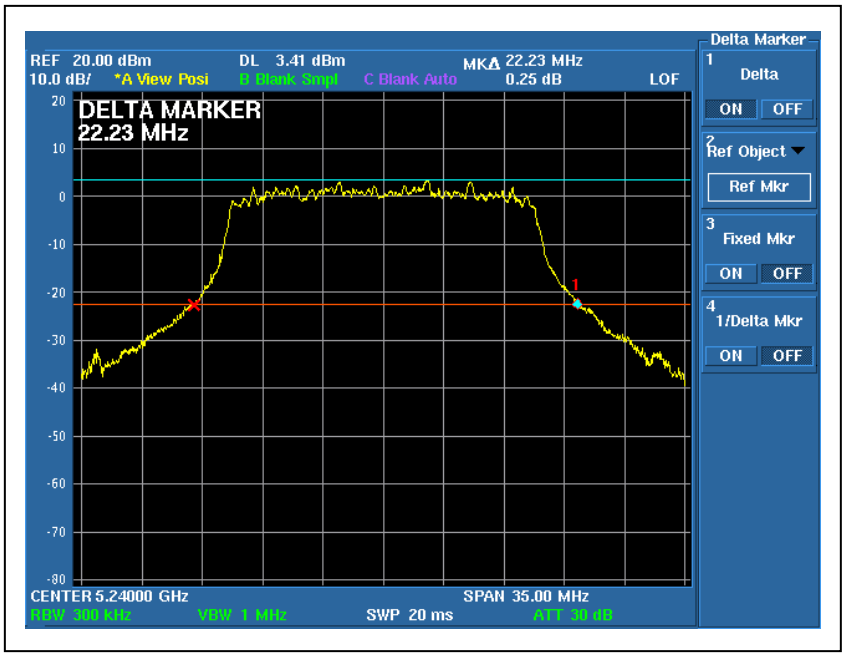
26dB Occupied Bandwidth:
For Chain (0) :CH1



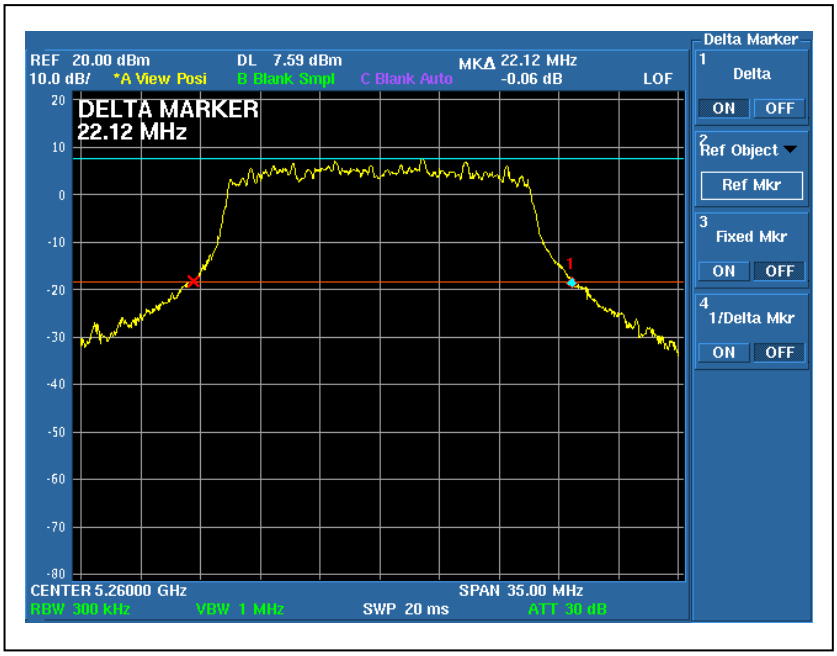
CH2



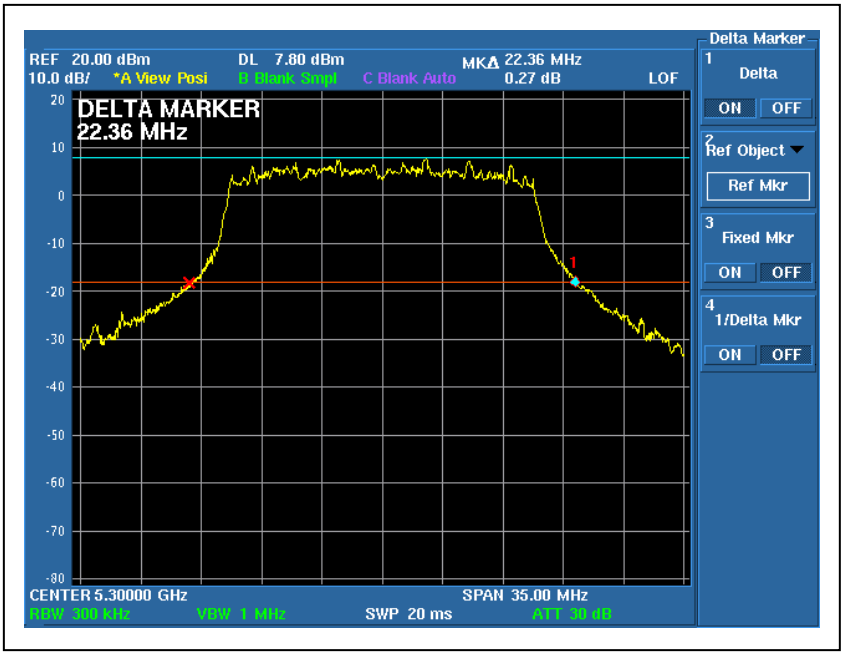
CH4


REF 20.00 dBm
DL 3.41 dBm
MKΔ 22.23 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.25 dB
LOF
DELTA MARKER
22.23 MHz
CENTER 5.24000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

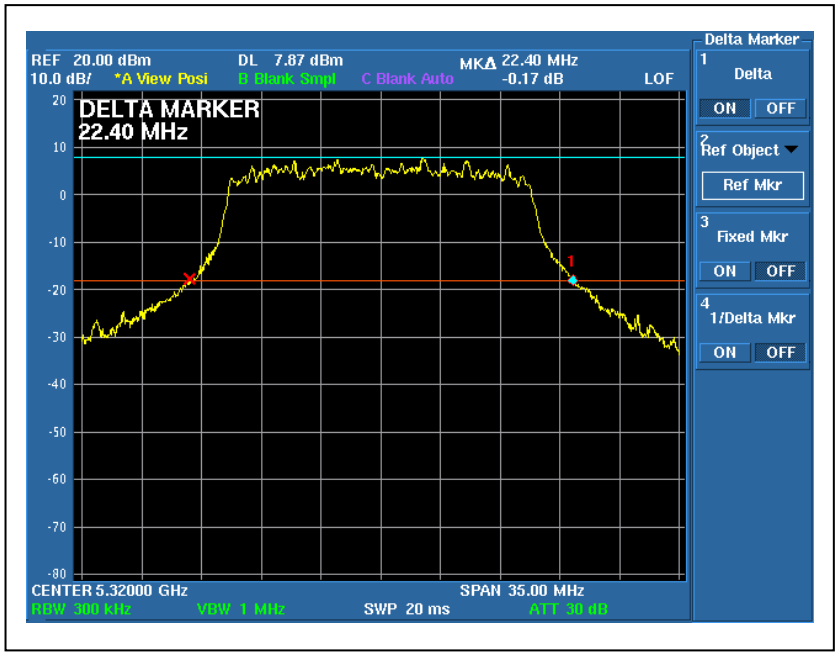
CH5


REF 20.00 dBm
DL 7.59 dBm
MKΔ 22.12 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.06 dB
LOF
DELTA MARKER
22.12 MHz
CENTER 5.26000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

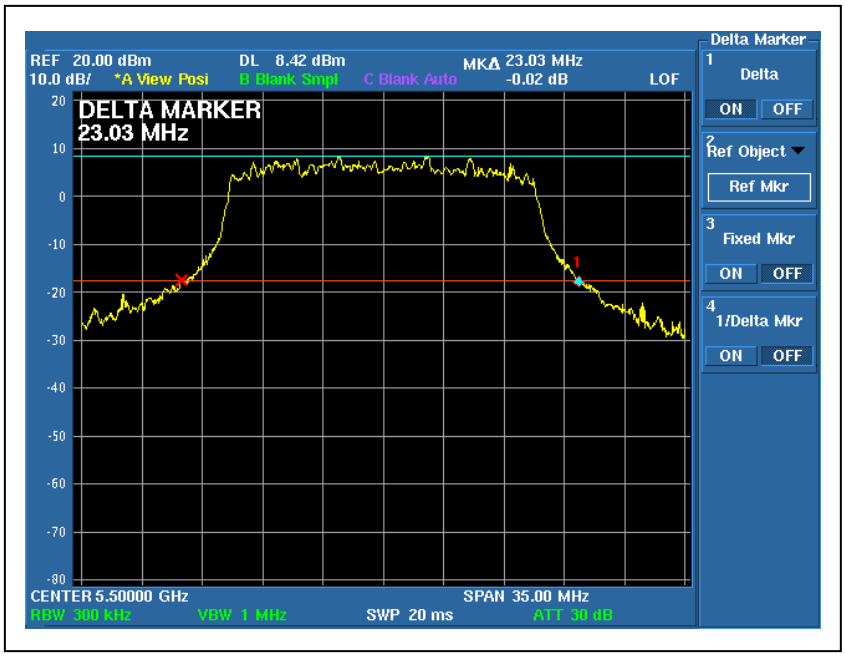
CH7


REF 20.00 dBm
DL 7.80 dBm
MKΔ 22.36 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.27 dB
LOF
DELTA MARKER
22.36 MHz
CENTER 5.30000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

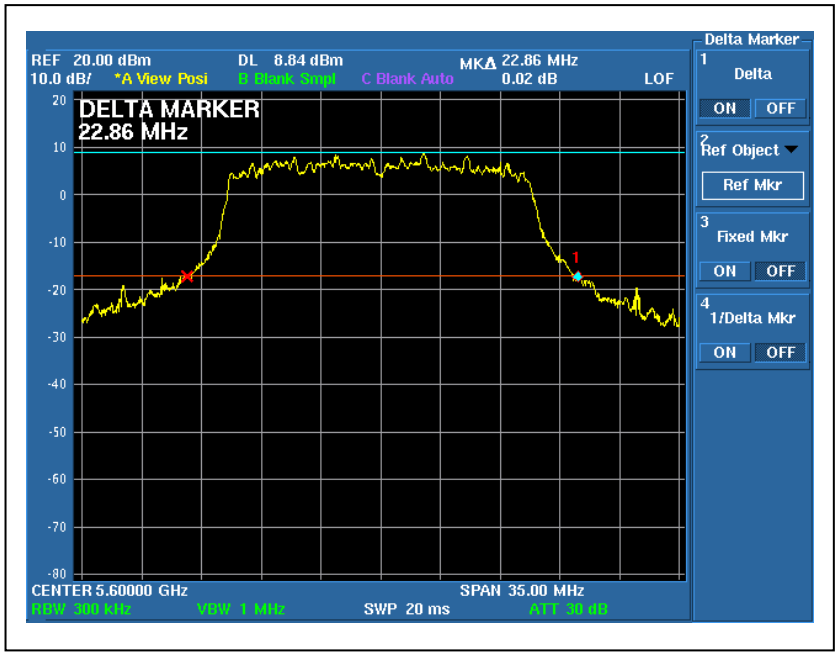
CH8


REF 20.00 dBm
DL 7.87 dBm
MKΔ 22.40 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.17 dB
LOF
DELTA MARKER
22.40 MHz
CENTER 5.32000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

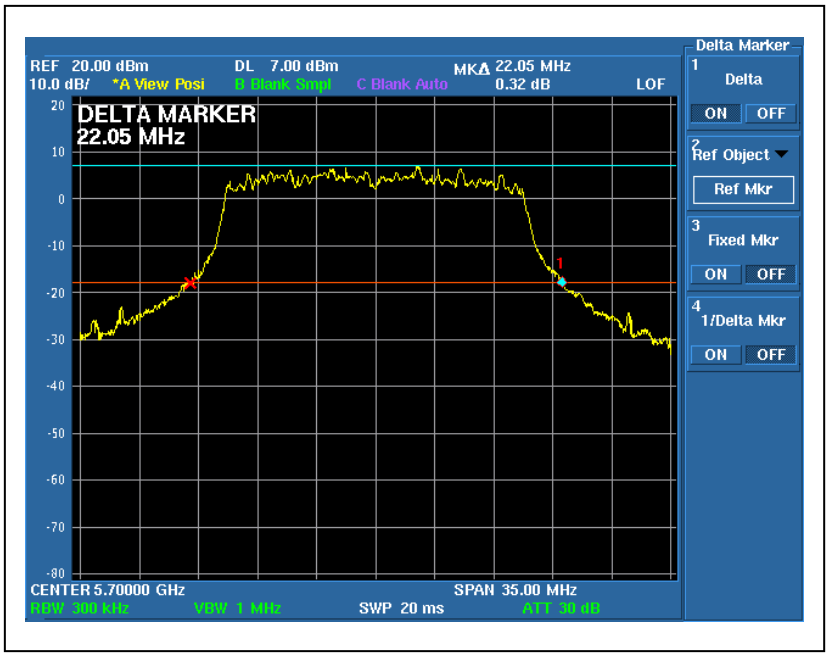
CH9


REF 20.00 dBm
DL 8.42 dBm
MKΔ 23.03 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.02 dB
LOF
DELTA MARKER
23.03 MHz
CENTER 5.50000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

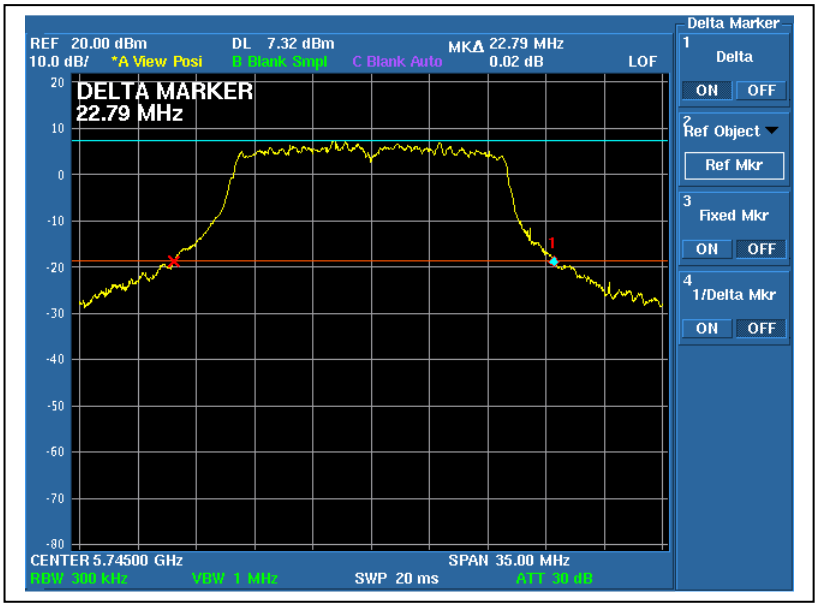
CH14


REF 20.00 dBm
DL 8.84 dBm
MKΔ 22.86 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.02 dB
LOF
DELTA MARKER
22.86 MHz
CENTER 5.60000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

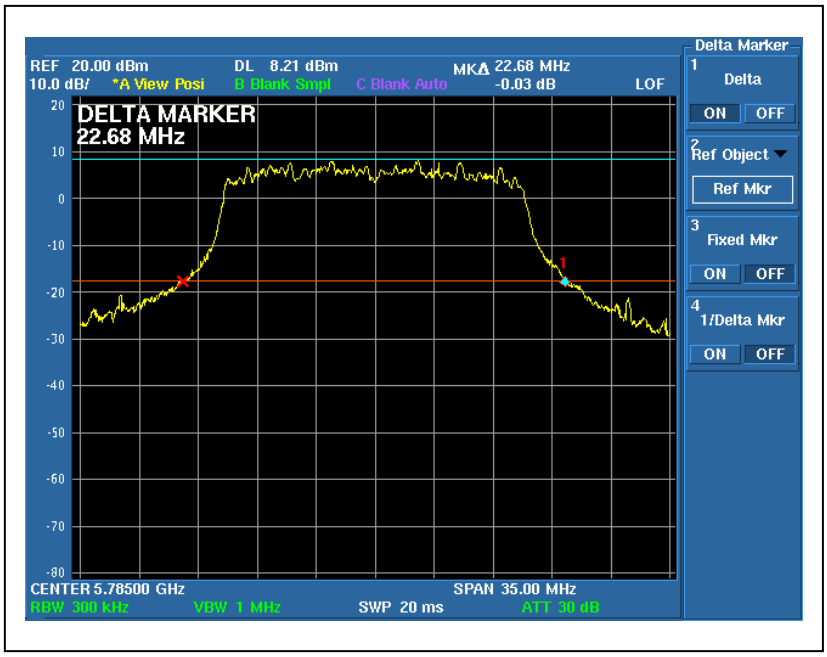
CH19


REF 20.00 dBm
10.0 dB/ *A View Posi
DL 7.00 dBm
B Blank Smpl
C Blank Auto
MKΔ 22.05 MHz
0.32 dB
LOF
DELTA MARKER
22.05 MHz
CENTER 5.70000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

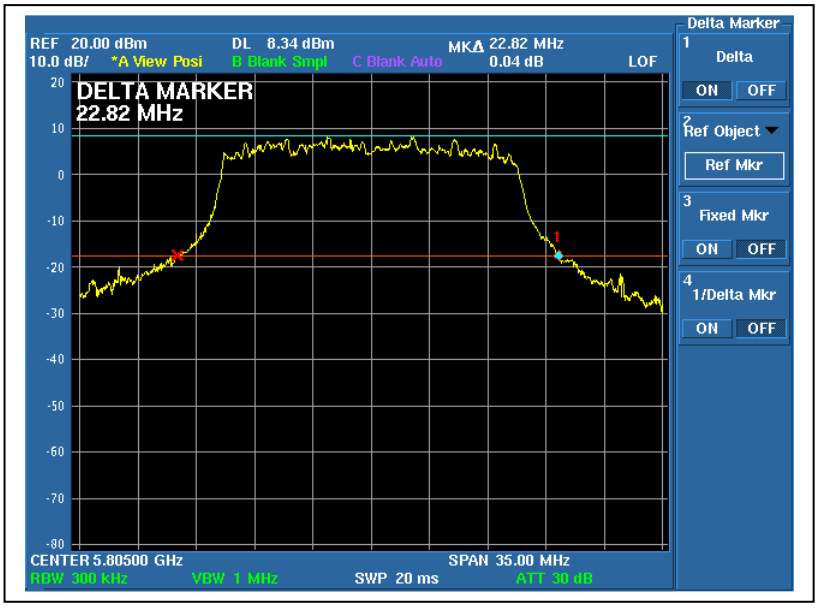
CH20


REF 20.00 dBm
10.0 dB/ *A View Posi
DL 7.32 dBm
B Blank Smpl
C Blank Auto
MKΔ 22.79 MHz
0.02 dB
LOF
DELTA MARKER
22.79 MHz
CENTER 5.74500 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

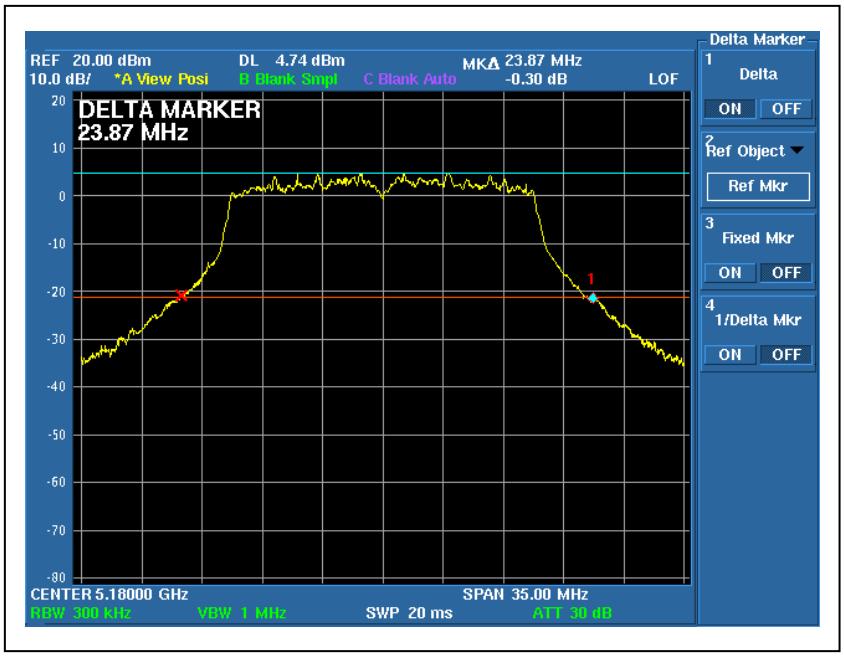
CH22


REF 20.00 dBm
10.0 dB/ *A View Posi
DL 8.21 dBm
B Blank Smpl
C Blank Auto
MKΔ 22.68 MHz
-0.03 dB
LOF
DELTA MARKER
22.68 MHz
CENTER 5.78500 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

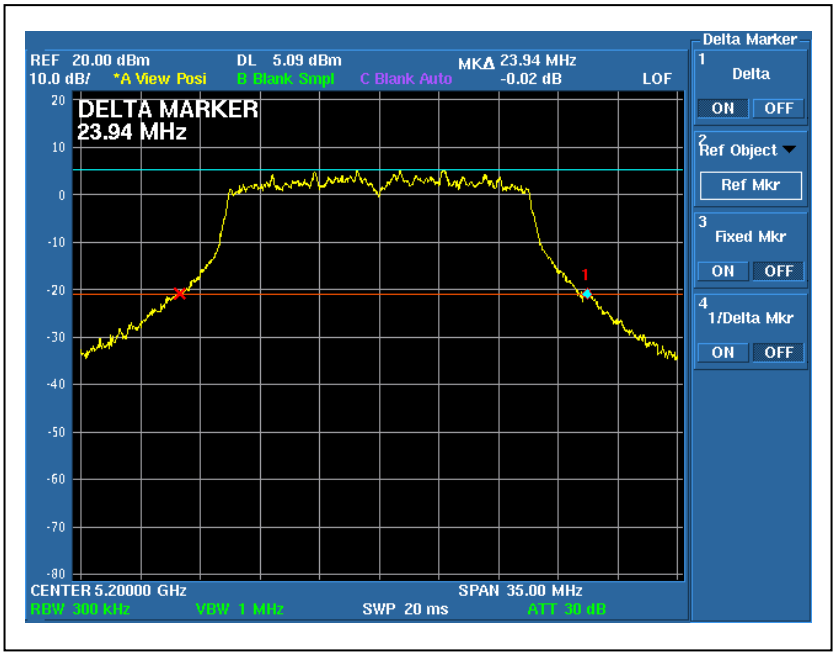
CH23


REF 20.00 dBm
10.0 dB/ *A View Posi
DL 8.34 dBm
B Blank Smpl
C Blank Auto
MKΔ 22.82 MHz
0.04 dB
LOF
DELTA MARKER
22.82 MHz
CENTER 5.80500 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

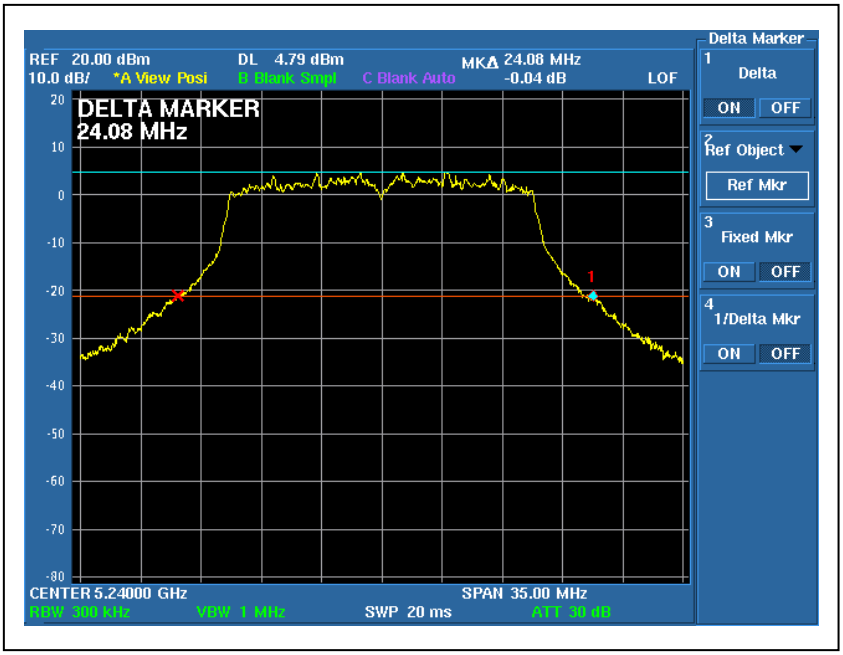
For Chain (1) :CH1



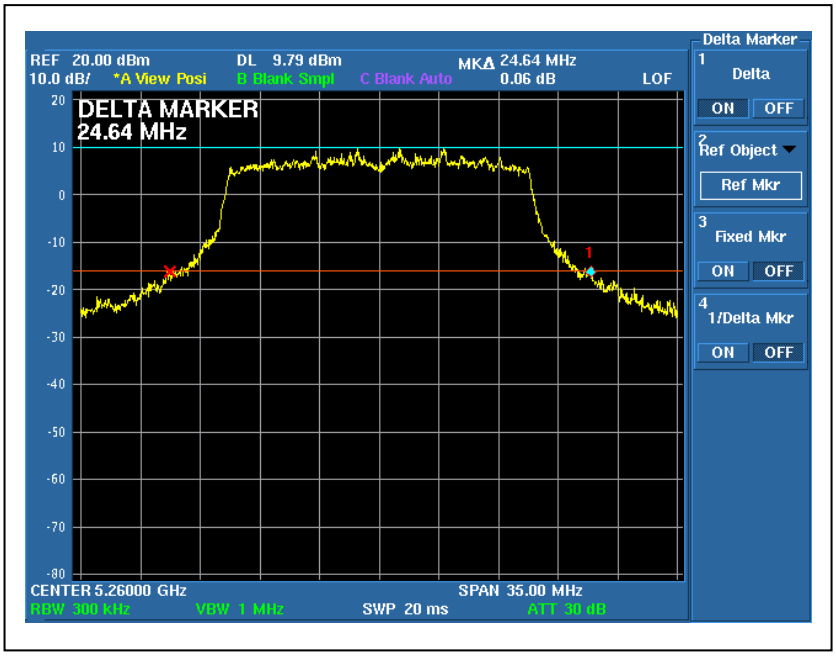
CH2



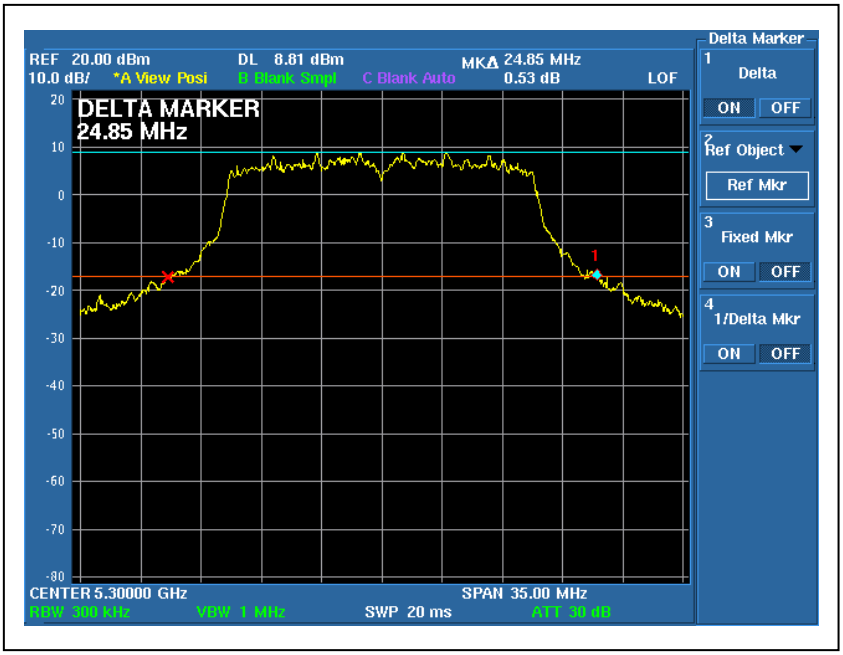
CH4


REF 20.00 dBm
DL 4.79 dBm
MKΔ 24.08 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.04 dB
LOF
DELTA MARKER
24.08 MHz
CENTER 5.24000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

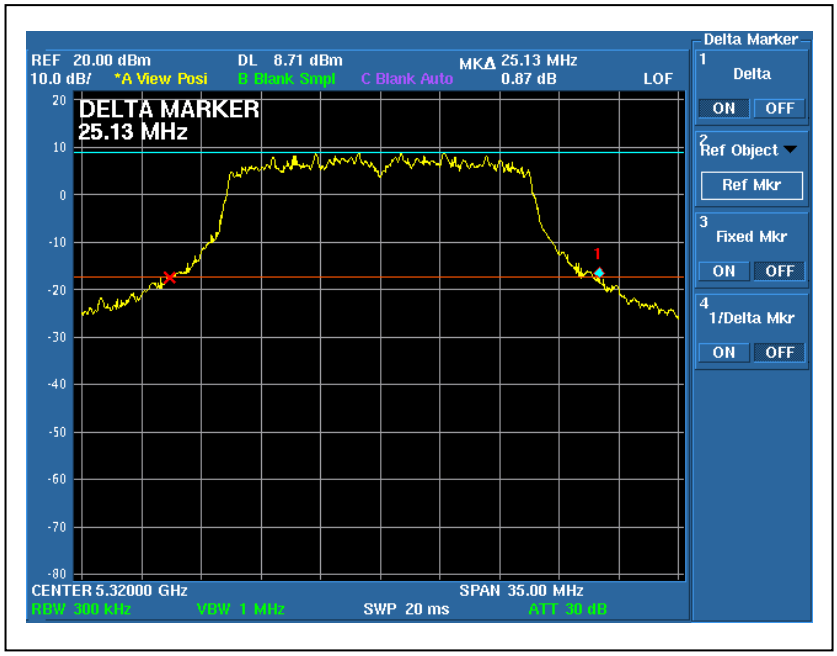
CH5


REF 20.00 dBm
DL 9.79 dBm
MKΔ 24.64 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.06 dB
LOF
DELTA MARKER
24.64 MHz
CENTER 5.26000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

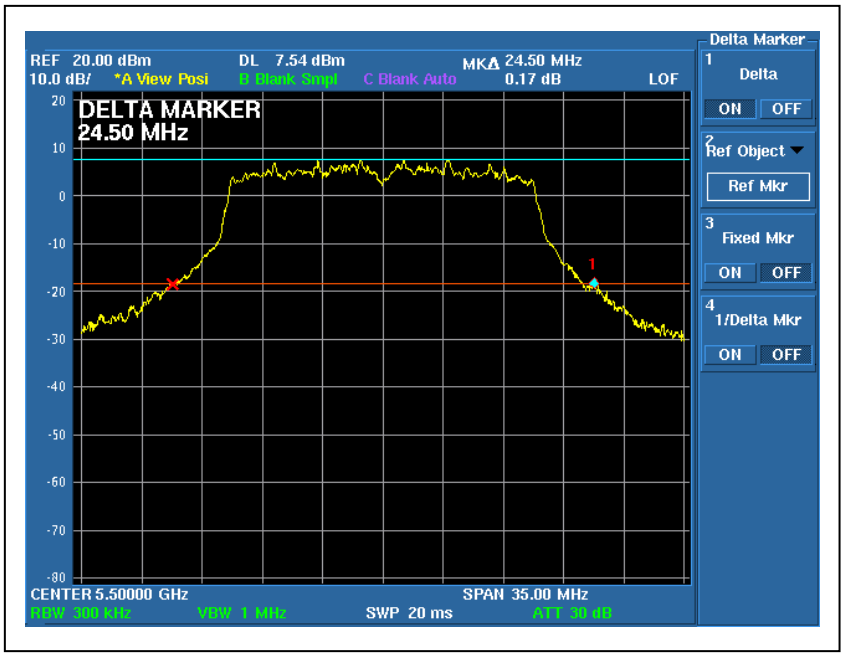
CH7


REF 20.00 dBm
DL 8.81 dBm
MKΔ 24.85 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.53 dB
LOF
DELTA MARKER
24.85 MHz
CENTER 5.30000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

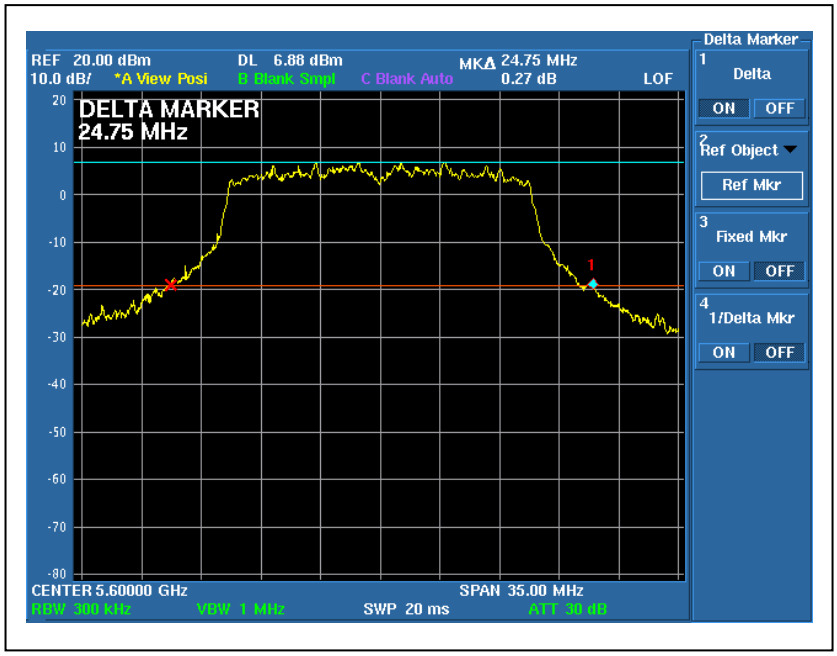
CH8


REF 20.00 dBm
DL 8.71 dBm
MKΔ 25.13 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.87 dB
LOF
DELTA MARKER
25.13 MHz
CENTER 5.32000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

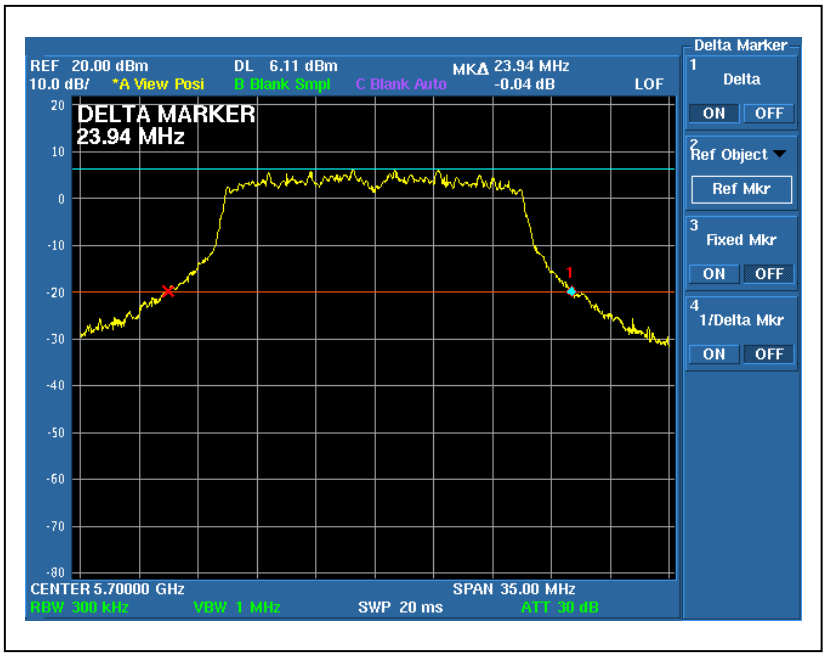
CH9


REF 20.00 dBm
DL 7.54 dBm
MKΔ 24.50 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.17 dB
LOF
DELTA MARKER
24.50 MHz
CENTER 5.50000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

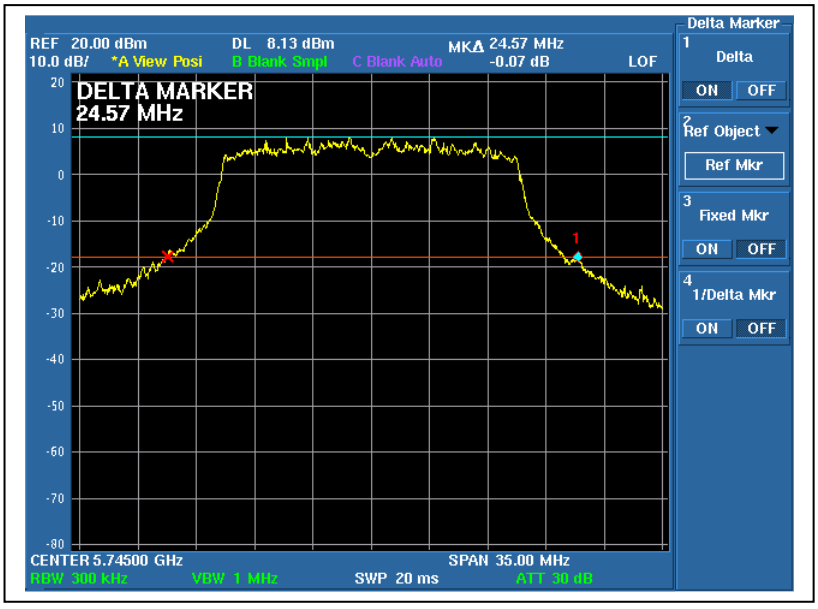
CH14


REF 20.00 dBm
DL 6.88 dBm
MKΔ 24.75 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.27 dB
LOF
DELTA MARKER
24.75 MHz
CENTER 5.60000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

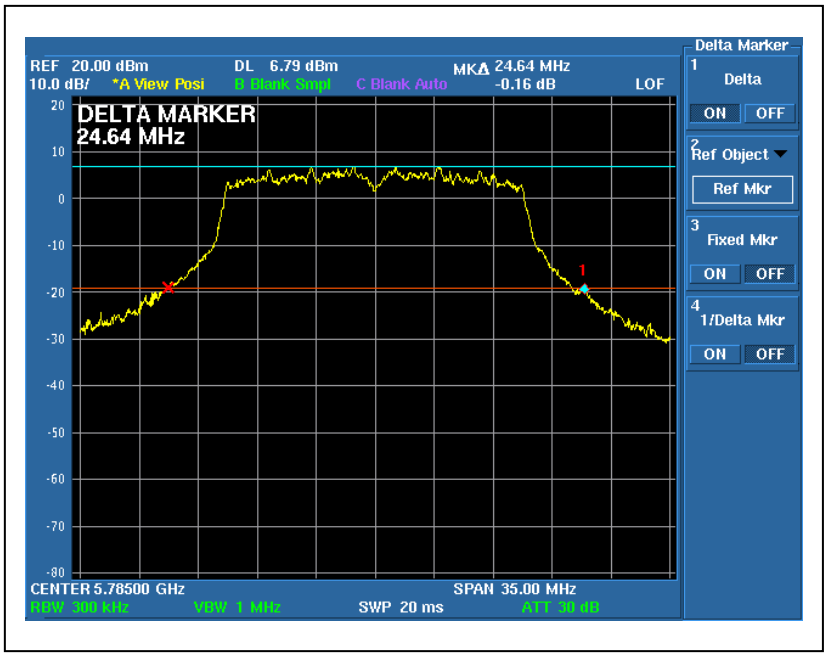
CH19


REF 20.00 dBm
DL 6.11 dBm
MKΔ 23.94 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.04 dB
LOF
DELTA MARKER
23.94 MHz
CENTER 5.70000 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

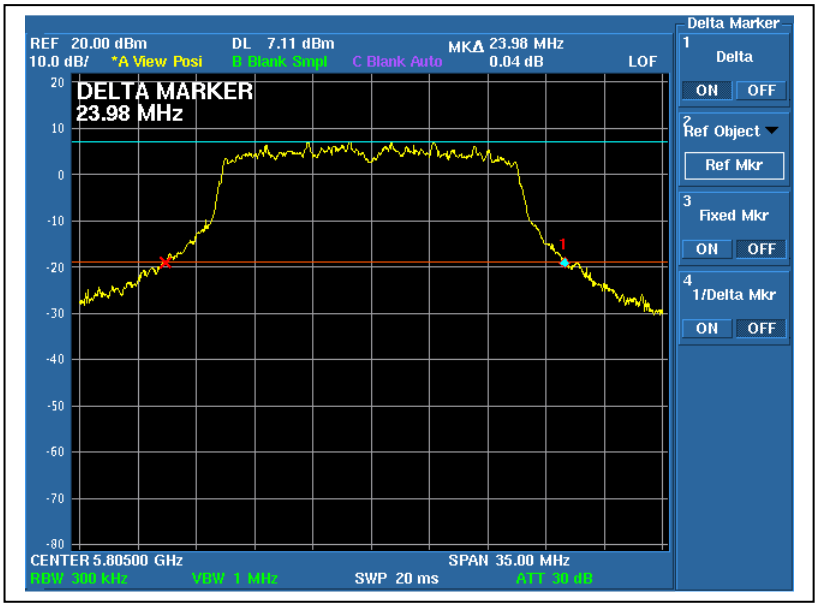
CH20


REF 20.00 dBm
DL 8.13 dBm
MKΔ 24.57 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.07 dB
LOF
DELTA MARKER
24.57 MHz
CENTER 5.74500 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

CH22


REF 20.00 dBm
DL 6.79 dBm
MKΔ 24.64 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.16 dB
LOF
DELTA MARKER
24.64 MHz
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF
CENTER 5.78500 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB

CH23


REF 20.00 dBm
DL 7.11 dBm
MKΔ 23.98 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.04 dB
LOF
DELTA MARKER
23.98 MHz
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF
CENTER 5.80500 GHz
SPAN 35.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB

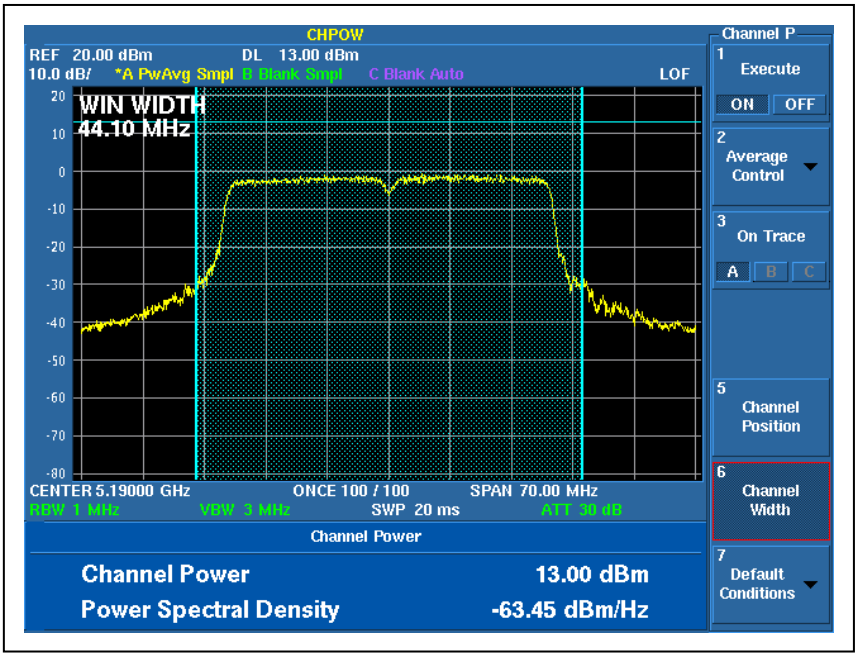
DRAFT 802.11n (40MHz) OFDM MODULATION:

MODULATION TYPE	BPSK	**TRANSFER RATE**	27Mbps
INPUT POWER	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

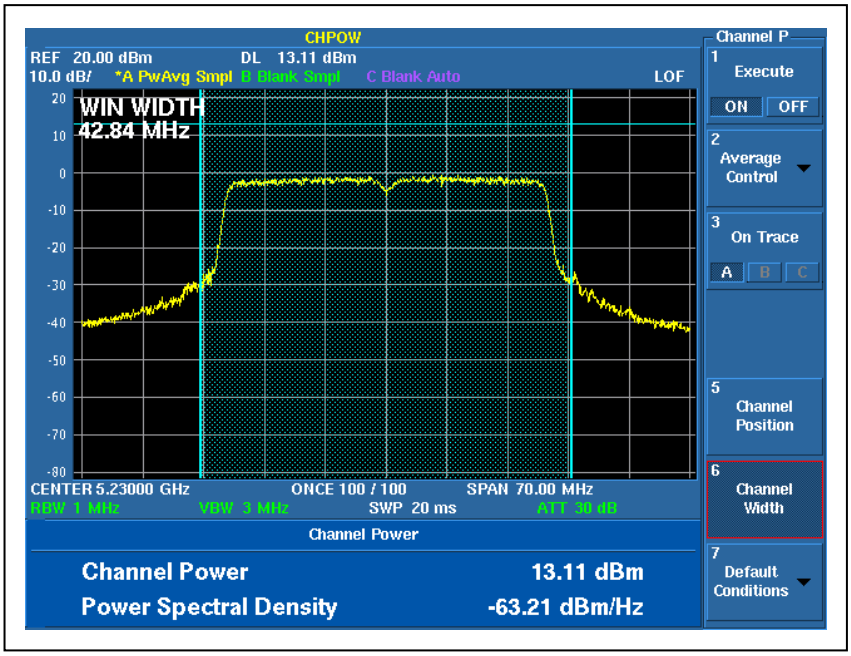
CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER OUTPUT (dBm)		PEAK POWER OUTPUT (mW)		TOTAL PEAK POWER (dBm)	TOTAL PEAK POWER (mW)	**PEAK POWER LIMIT (dBm)**	26dBc Occupied Bandwidth (MHz)		PASS/ FAIL
		Chain 0	Chain 1	Chain 0	Chain 1				Chain 0	Chain 1	
1	5190	13.00	14.75	19.953	29.854	16.97	49.807	17.00	44.10	45.29	PASS
2	5230	13.11	14.62	20.464	28.973	16.94	49.437	17.00	42.84	45.15	PASS
3	5270	13.87	15.61	24.378	36.392	17.84	60.770	24.00	42.84	45.22	PASS
4	5310	13.87	15.70	24.378	37.154	17.89	61.532	24.00	42.63	45.29	PASS
5	5510	12.69	14.96	18.578	31.333	16.98	49.911	24.00	42.91	45.15	PASS
7	5590	12.53	15.07	17.906	32.137	16.99	50.043	24.00	43.89	45.15	PASS
9	5670	13.71	15.24	23.496	33.420	17.55	56.916	24.00	43.82	45.08	PASS
10	5755	13.57	15.00	22.751	31.623	17.35	54.374	30.00	43.68	45.22	PASS
11	5795	14.20	15.07	26.303	32.137	17.67	58.440	30.00	44.17	45.78	PASS

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

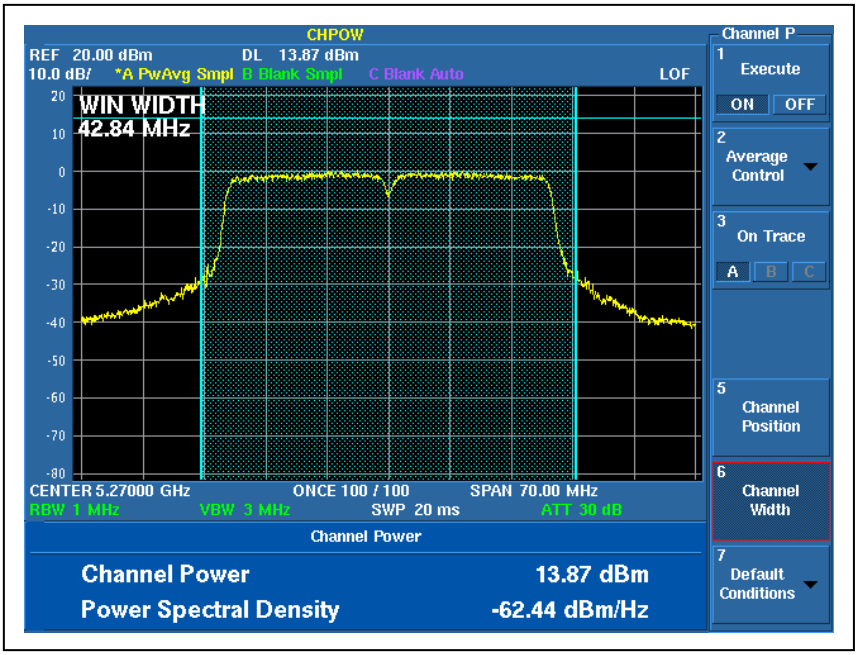
Peak Power Output:
For Chain (0) :CH1



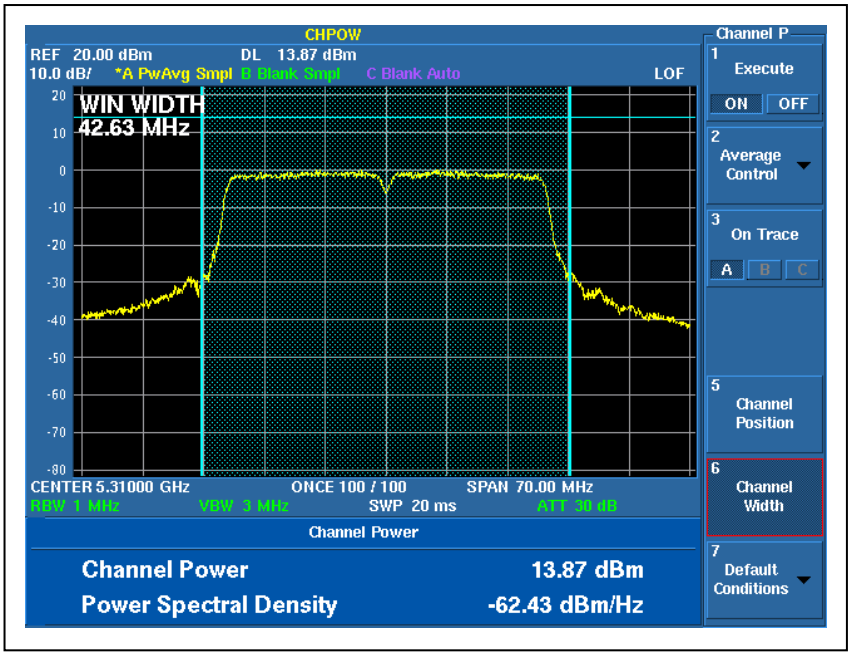
CH2



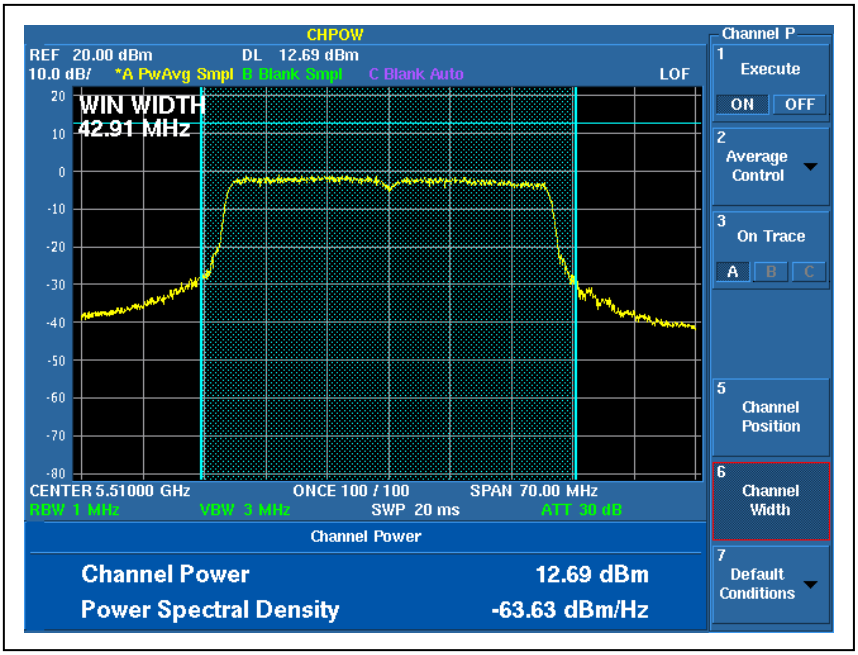
CH3


CHPOW
REF 20.00 dBm
DL 13.87 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
42.84 MHz
CENTER 5.27000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 13.87 dBm
Power Spectral Density -62.44 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

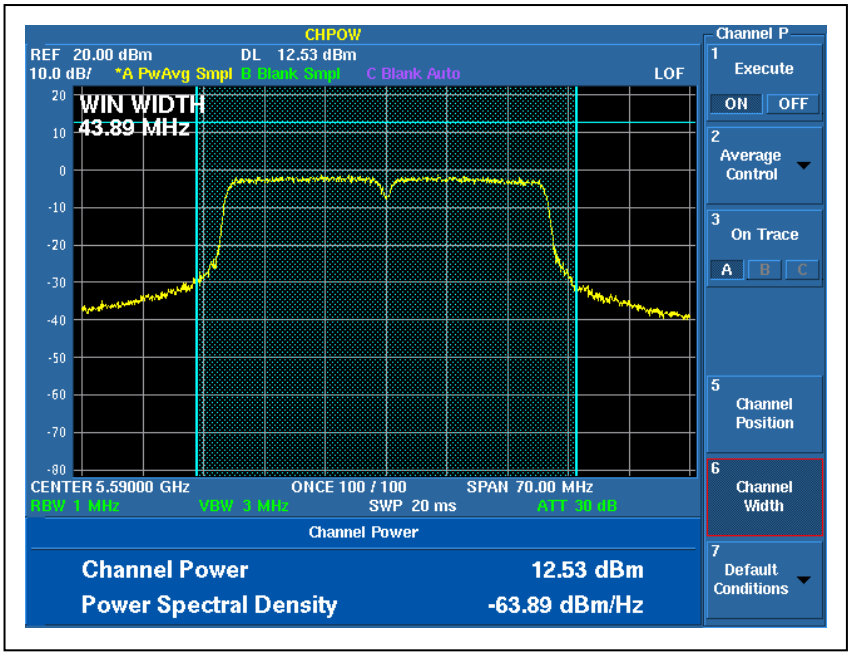
CH4


CHPOW
REF 20.00 dBm
DL 13.87 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
42.63 MHz
CENTER 5.31000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 13.87 dBm
Power Spectral Density -62.43 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

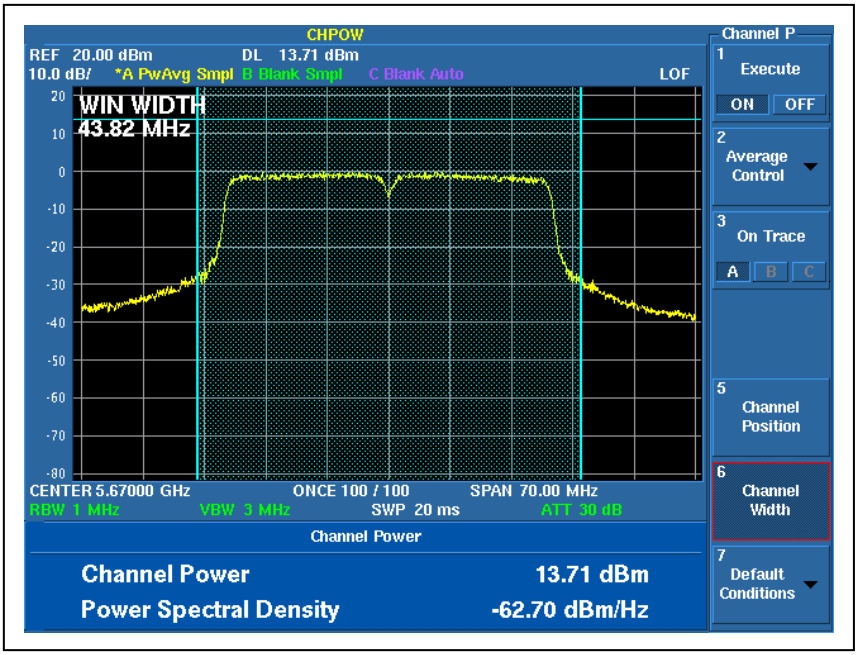
CH5


CHPOW
REF 20.00 dBm
DL 12.69 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
42.91 MHz
CENTER 5.51000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 12.69 dBm
Power Spectral Density -63.63 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

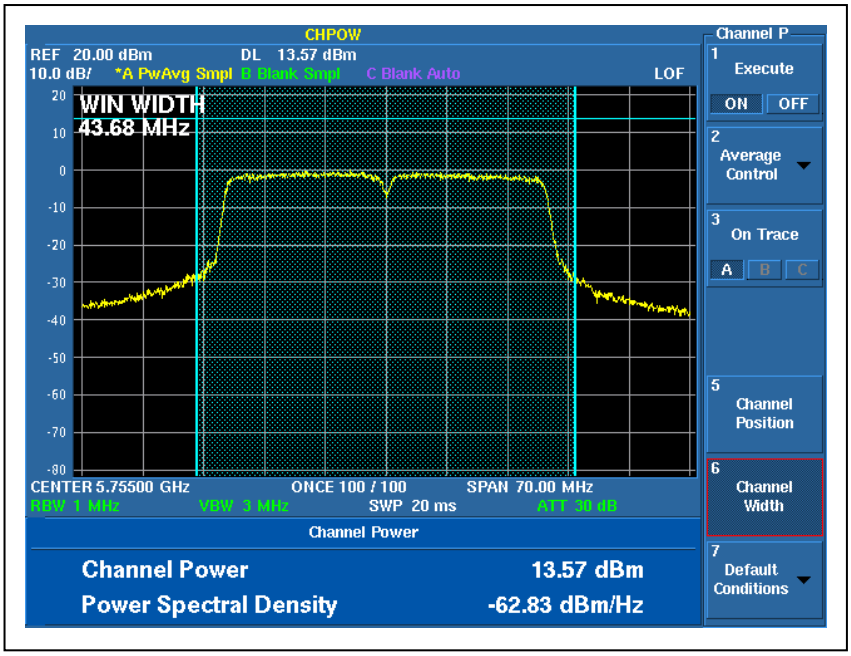
CH7


CHPOW
REF 20.00 dBm
DL 12.53 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
43.89 MHz
CENTER 5.59000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 12.53 dBm
Power Spectral Density -63.89 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

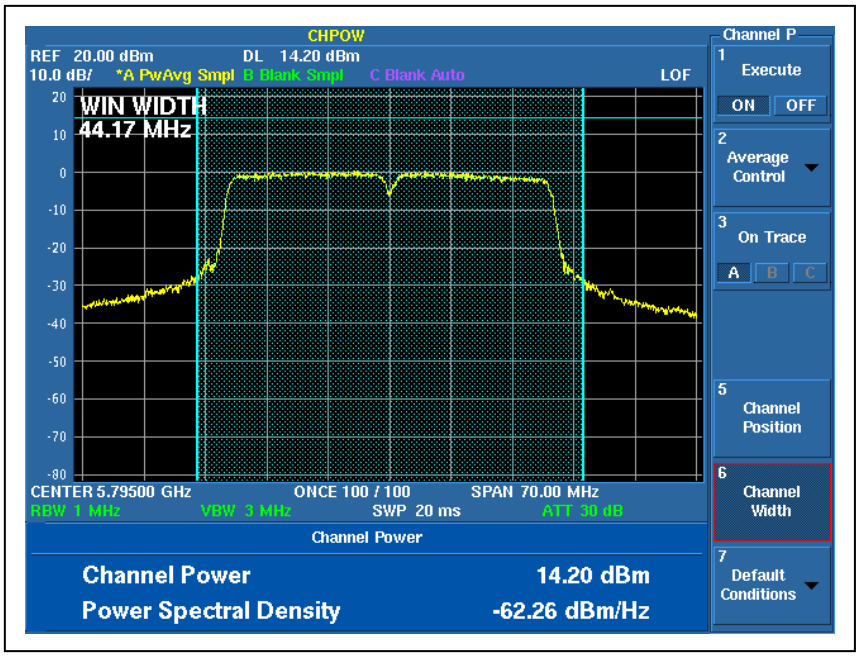
CH9


CHPOW
REF 20.00 dBm
DL 13.71 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
43.82 MHz
CENTER 5.67000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 13.71 dBm
Power Spectral Density -62.70 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

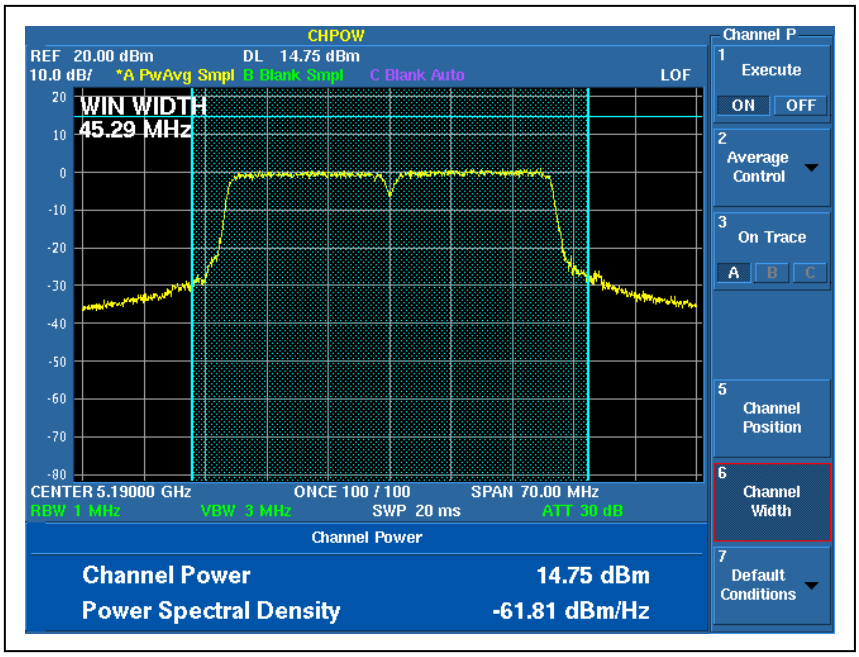
CH10


CHPOW
REF 20.00 dBm
DL 13.57 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
43.68 MHz
CENTER 5.75500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 13.57 dBm
Power Spectral Density -62.83 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

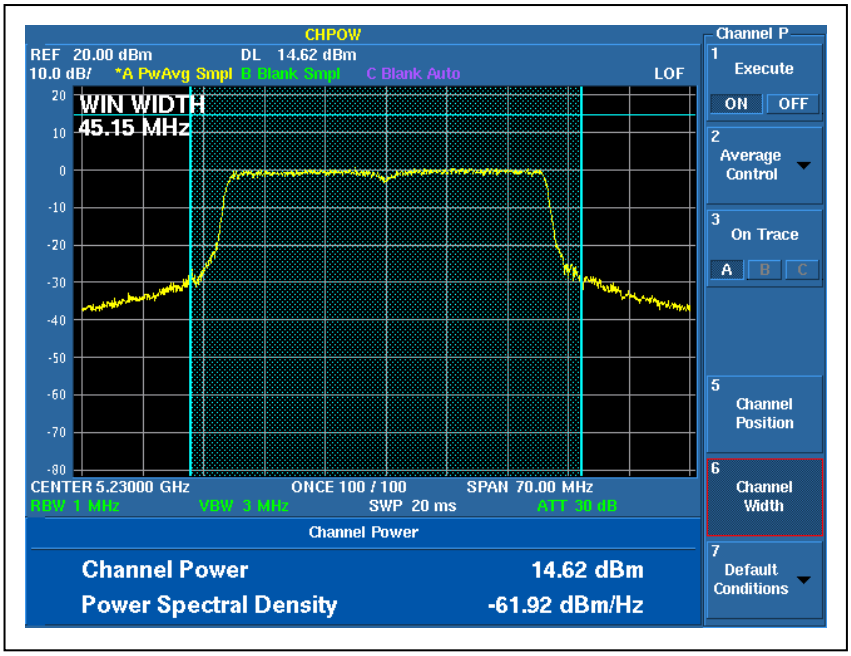
CH11


CHPOW
REF 20.00 dBm
DL 14.20 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
44.17 MHz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
CENTER 5.79500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.20 dBm
Power Spectral Density -62.26 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

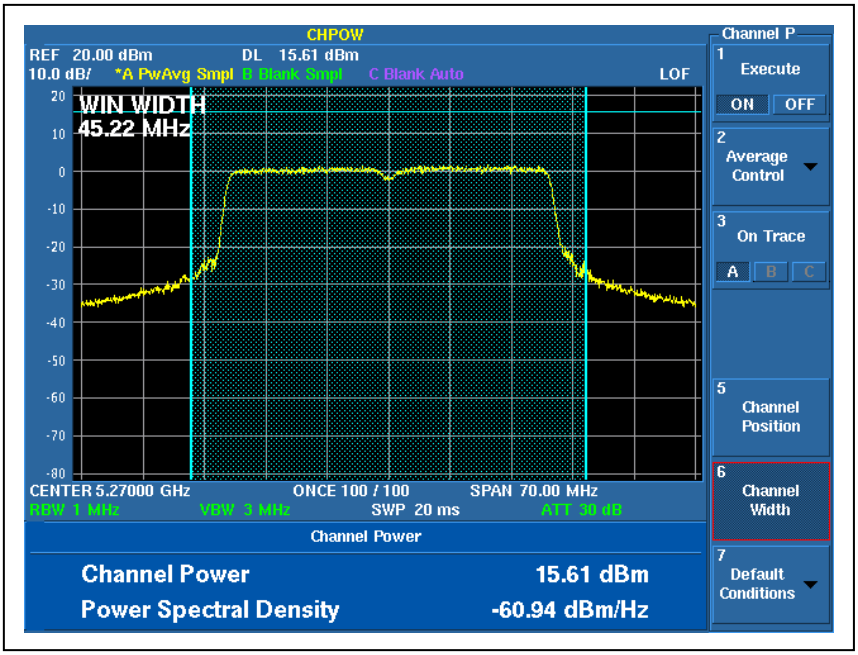
For Chain (1) :CH1



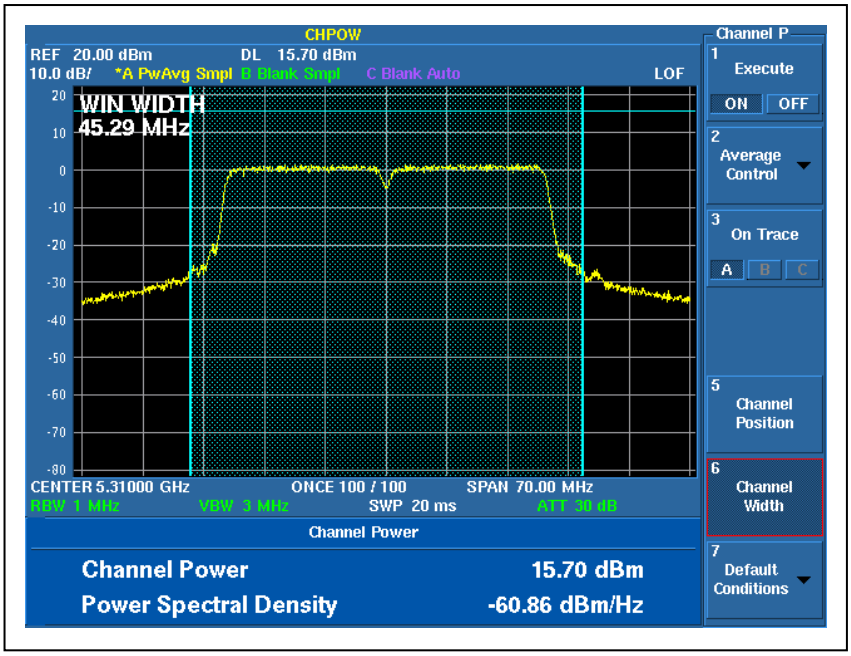
CH2



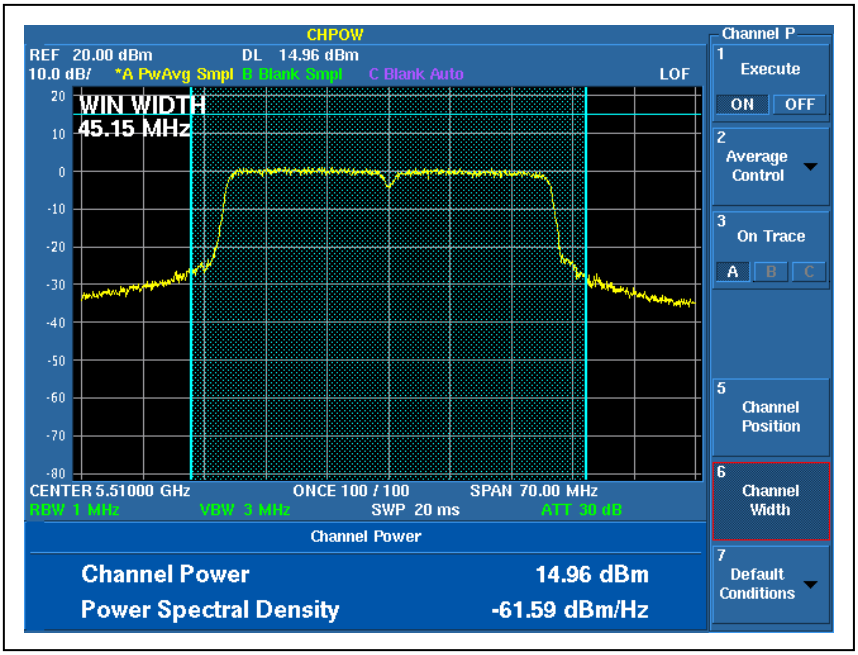
CH3


CHPOW
REF 20.00 dBm
DL 15.61 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
45.22 MHz
CENTER 5.27000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.61 dBm
Power Spectral Density -60.94 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

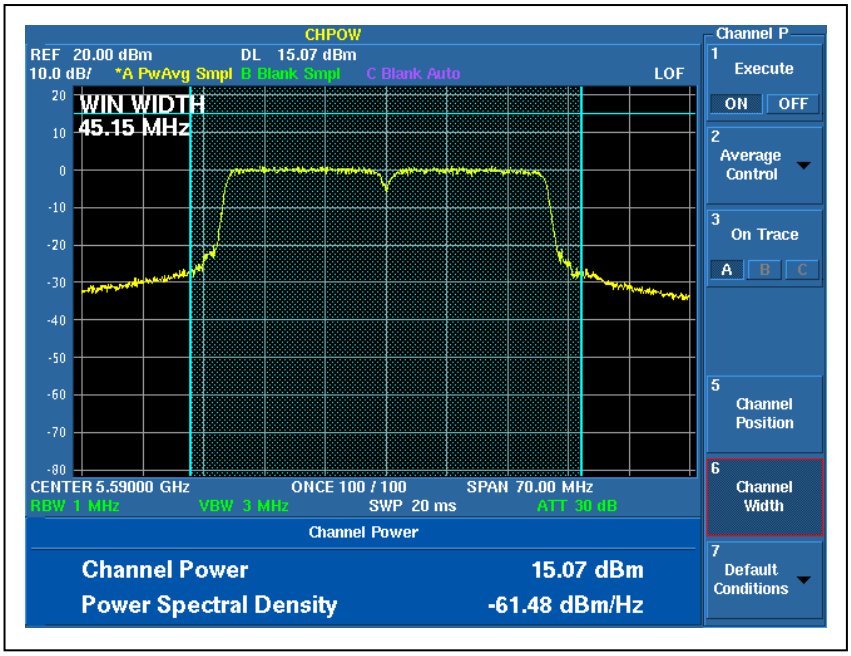
CH4


CHPOW
REF 20.00 dBm
DL 15.70 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
45.29 MHz
CENTER 5.31000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.70 dBm
Power Spectral Density -60.86 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

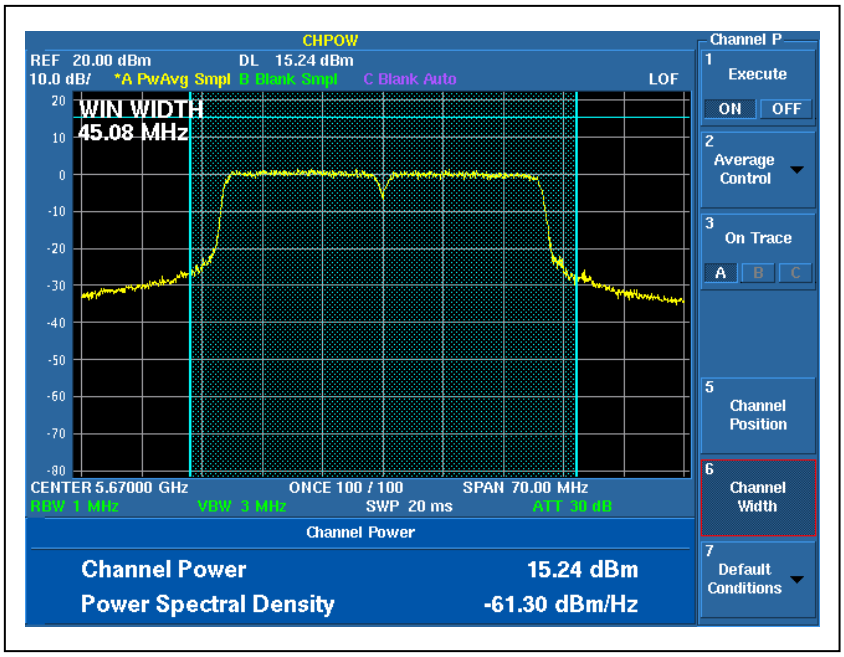
CH5


CHPOW
REF 20.00 dBm
DL 14.96 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
45.15 MHz
CENTER 5.51000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 14.96 dBm
Power Spectral Density -61.59 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

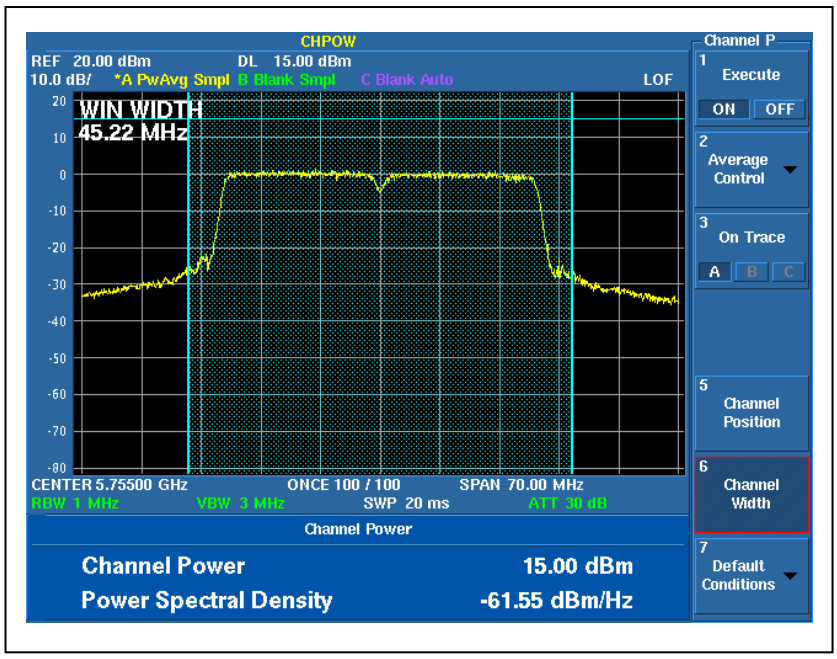
CH7


CHPOW
REF 20.00 dBm
DL 15.07 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
45.15 MHz
CENTER 5.59000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.07 dBm
Power Spectral Density -61.48 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

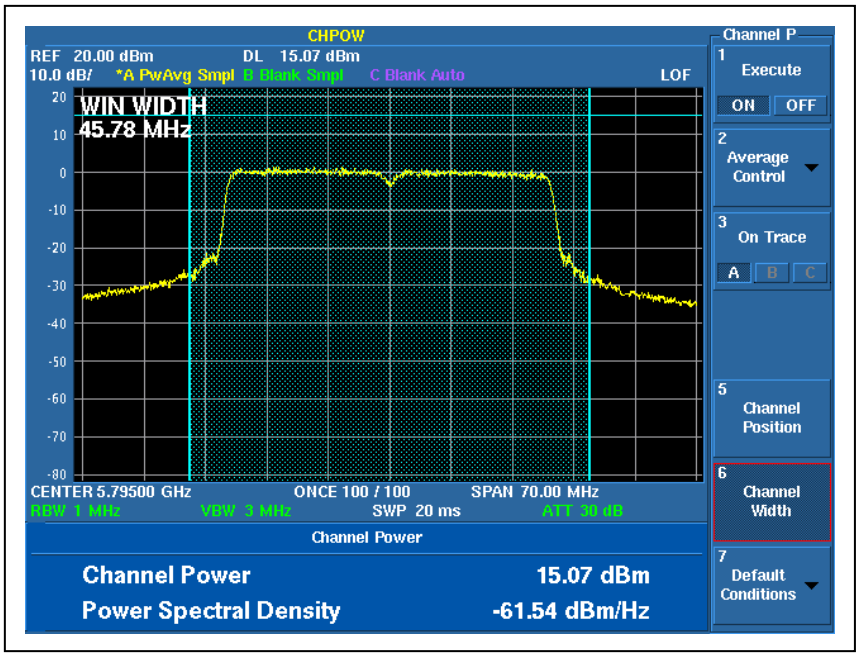
CH9


CHPOW
REF 20.00 dBm
DL 15.24 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
45.08 MHz
CENTER 5.67000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.24 dBm
Power Spectral Density -61.30 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

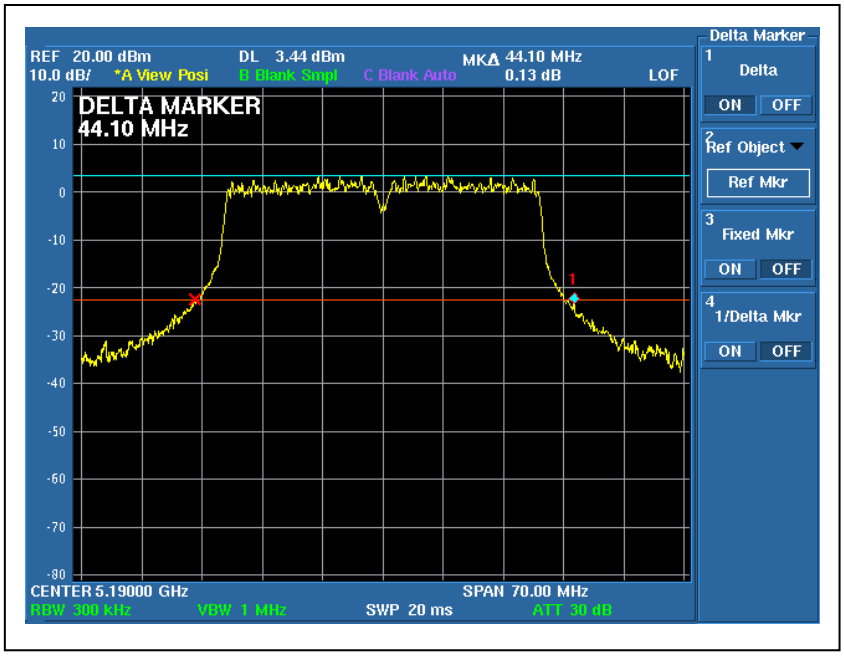
CH10


CHPOW
REF 20.00 dBm
DL 15.00 dBm
10.0 dB/
*A PwAvg Smpl
B Blank Smpl
C Blank Auto
LOF
WIN WIDTH
45.22 MHz
CENTER 5.75500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.00 dBm
Power Spectral Density -61.55 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

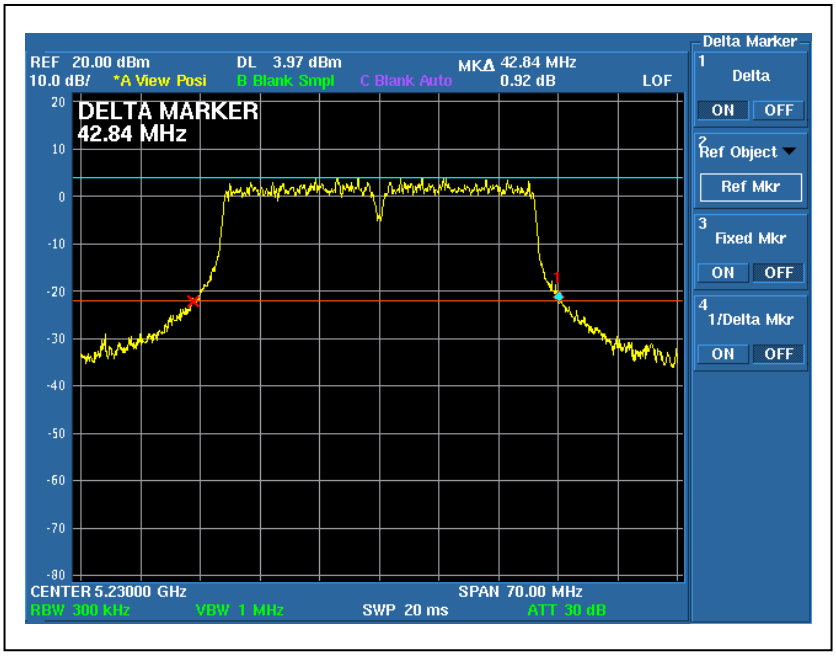
CH11


CHPOW
REF 20.00 dBm
DL 15.07 dBm
10.0 dB/
*A PwAvg Smpl B Blank Smpl C Blank Auto
LOF
WIN WIDTH
45.78 MHz
CENTER 5.79500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Channel Power
Channel Power 15.07 dBm
Power Spectral Density -61.54 dBm/Hz
Channel P
1 Execute
ON OFF
2 Average Control
3 On Trace
A B C
5 Channel Position
6 Channel Width
7 Default Conditions

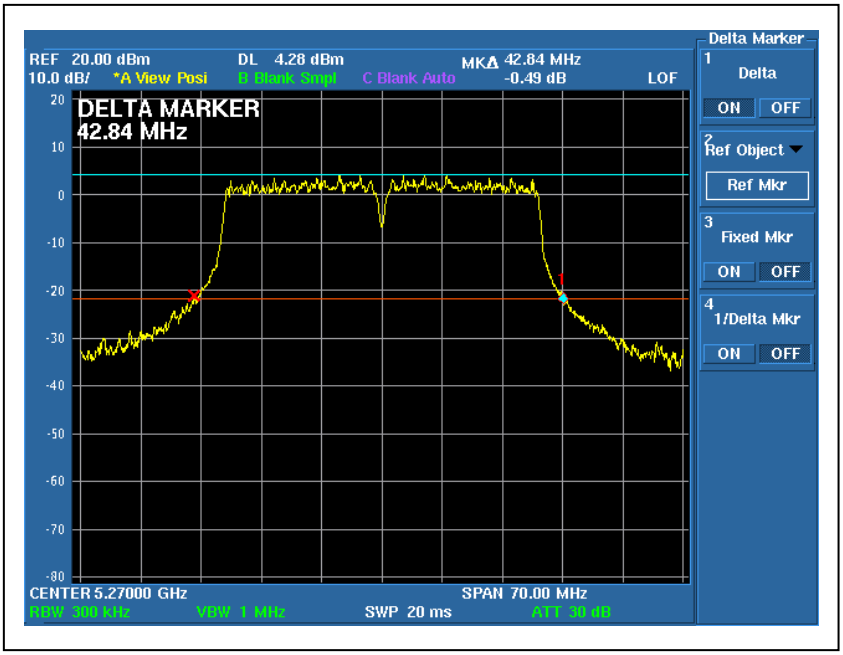
26dB Occupied Bandwidth:
For Chain (0) :CH1



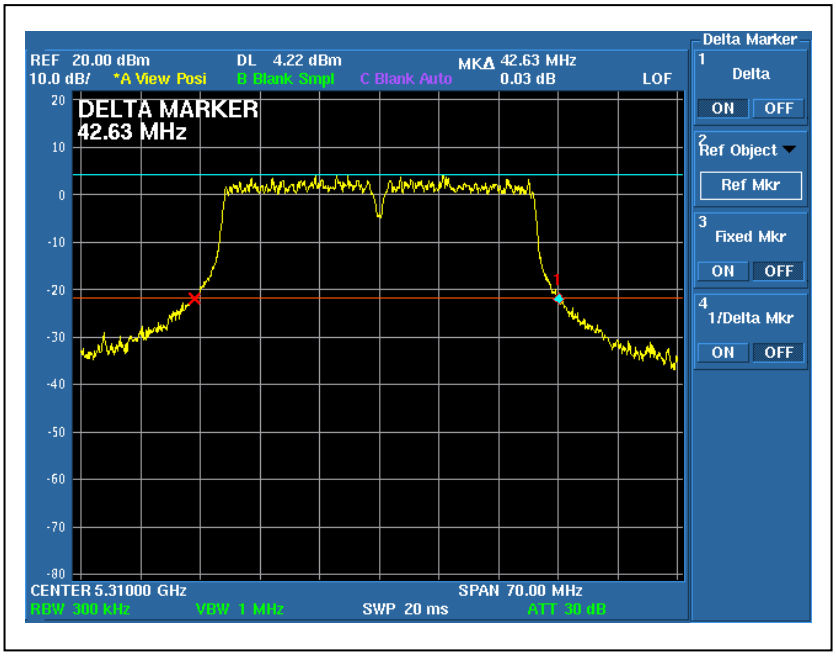
CH2



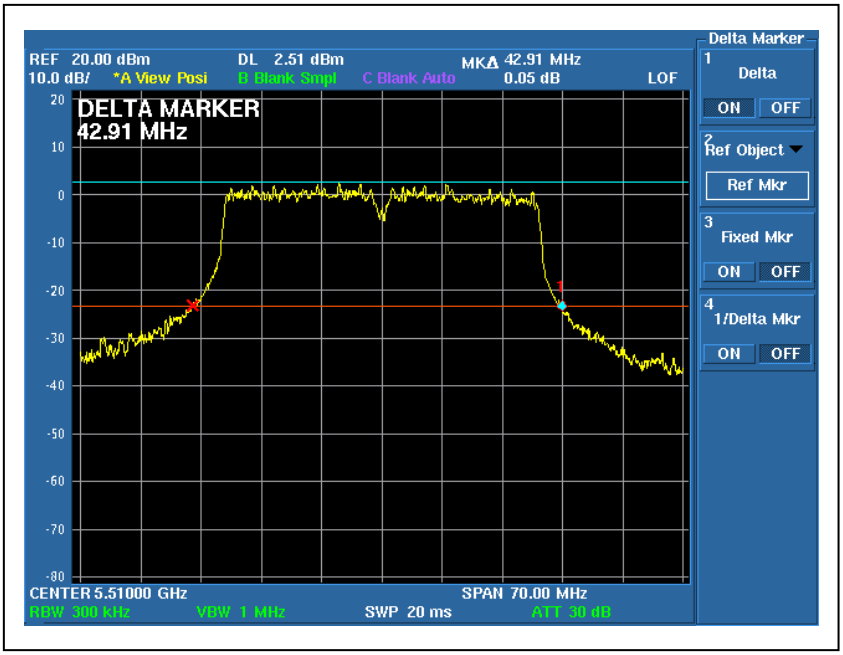
CH3


REF 20.00 dBm
DL 4.28 dBm
MKΔ 42.84 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.49 dB
LOF
DELTA MARKER
42.84 MHz
CENTER 5.27000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

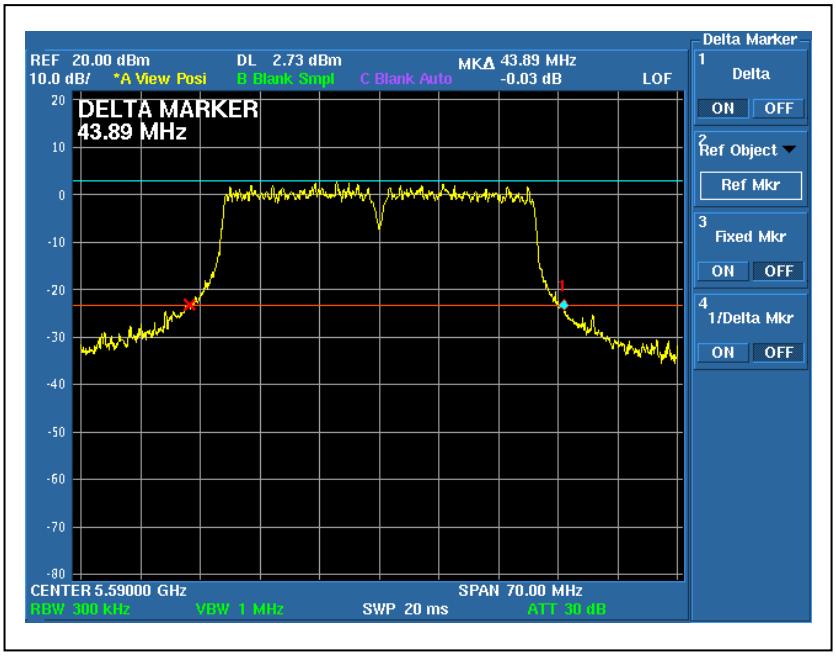
CH4


REF 20.00 dBm
DL 4.22 dBm
MKΔ 42.63 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.03 dB
LOF
DELTA MARKER
42.63 MHz
CENTER 5.31000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

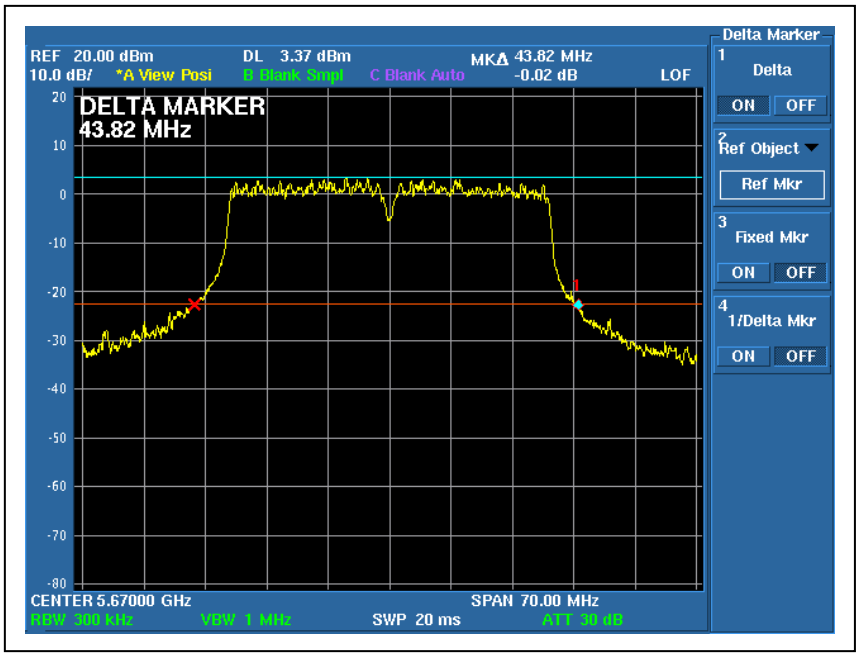
CH5


REF 20.00 dBm
DL 2.51 dBm
MKΔ 42.91 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.05 dB
LOF
DELTA MARKER
42.91 MHz
CENTER 5.51000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

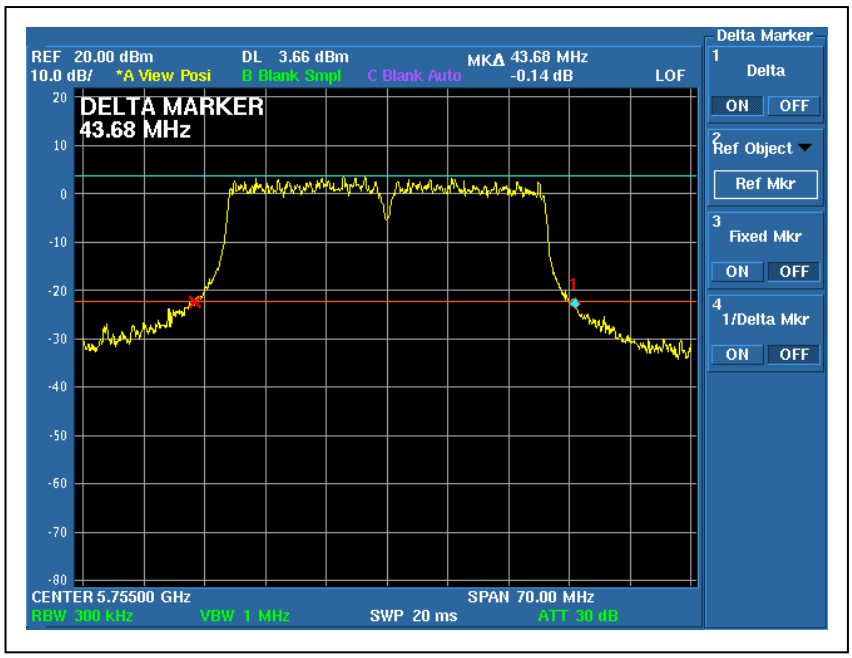
CH7


REF 20.00 dBm
DL 2.73 dBm
MKΔ 43.89 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.03 dB
LOF
DELTA MARKER
43.89 MHz
CENTER 5.59000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

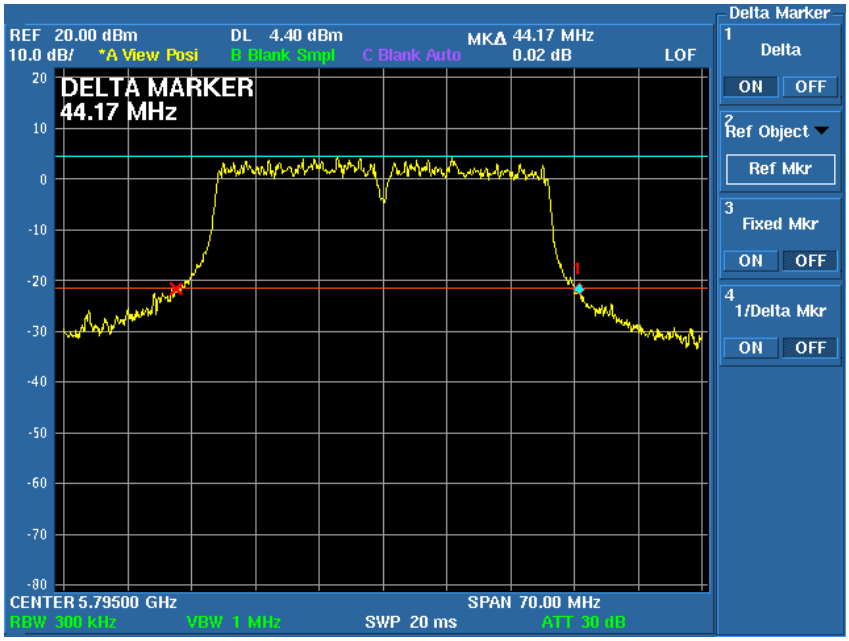
CH9


REF 20.00 dBm
DL 3.37 dBm
MKΔ 43.82 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.02 dB
LOF
DELTA MARKER
43.82 MHz
CENTER 5.67000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

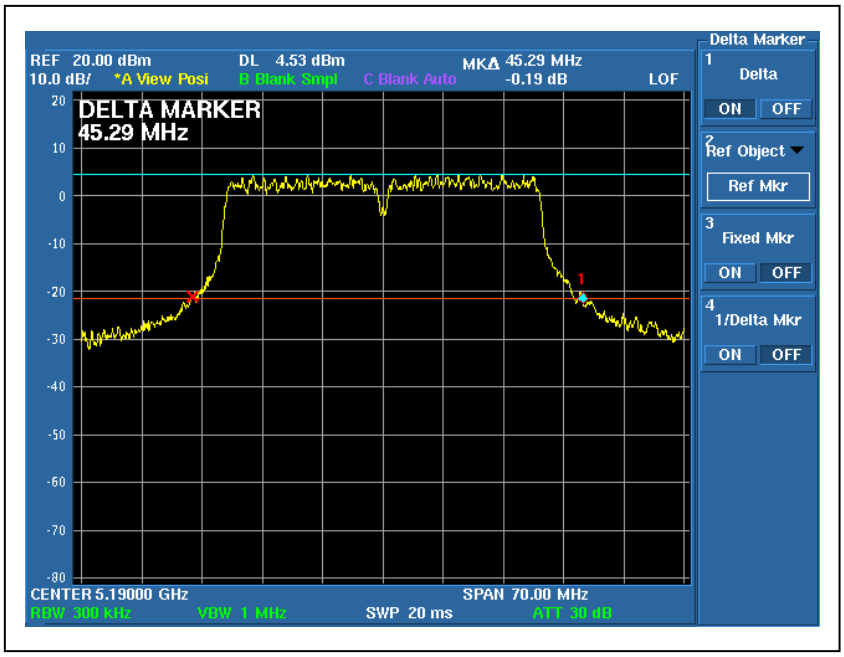
CH10


REF 20.00 dBm
DL 3.66 dBm
MKΔ 43.68 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.14 dB
LOF
DELTA MARKER
43.68 MHz
CENTER 5.75500 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

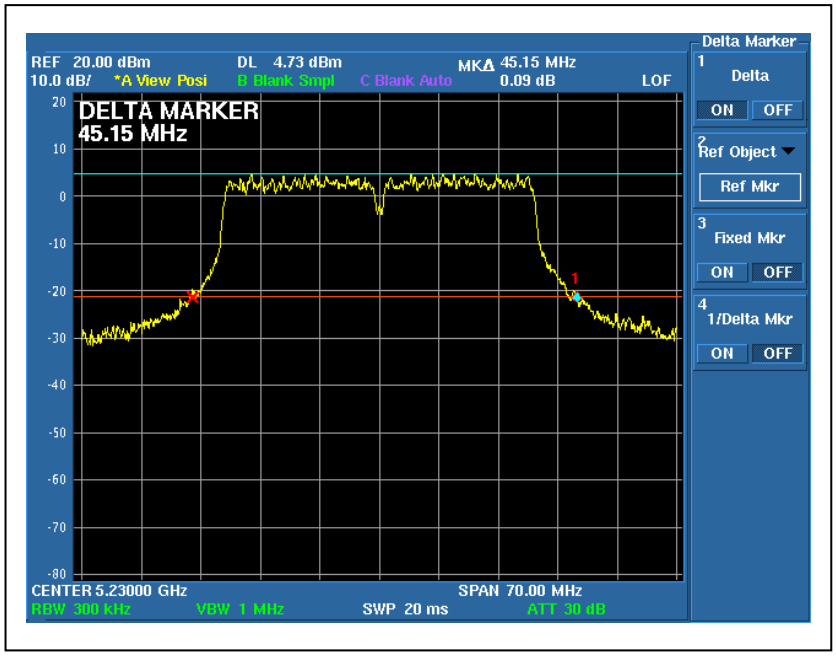
CH11


REF 20.00 dBm
10.0 dB/
*A View Posi
DL 4.40 dBm
B Blank Smpl
C Blank Auto
MKΔ 44.17 MHz
0.02 dB
LOF
DELTA MARKER
44.17 MHz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
CENTER 5.79500 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1
Delta
ON
OFF
2
Ref Object
Ref Mkr
3
Fixed Mkr
ON
OFF
4
1/Delta Mkr
ON
OFF

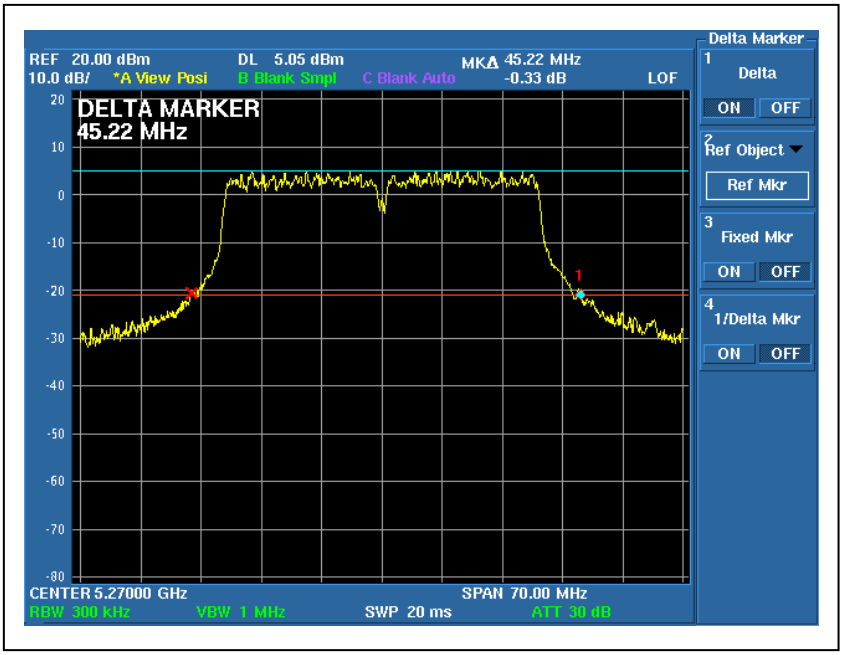
For Chain (1) :CH1



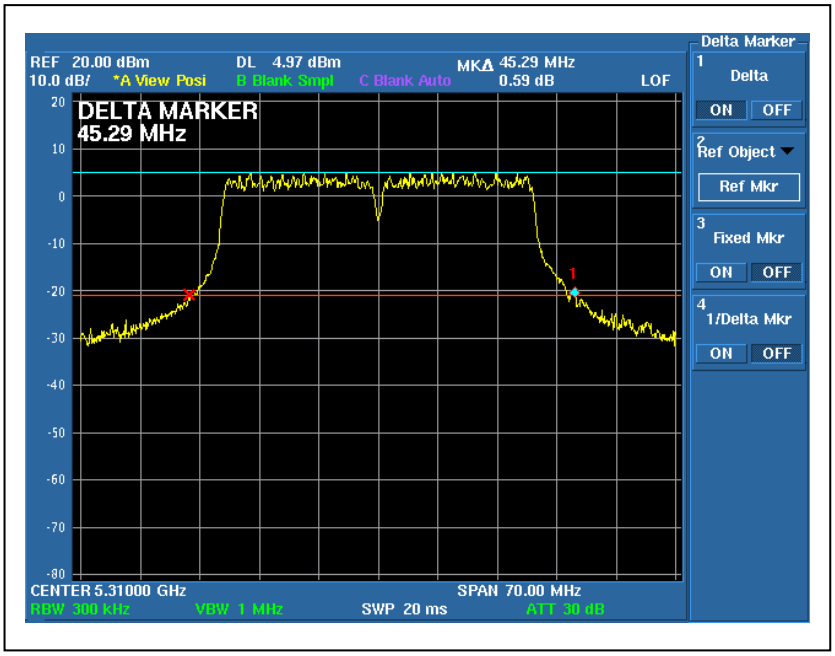
CH2



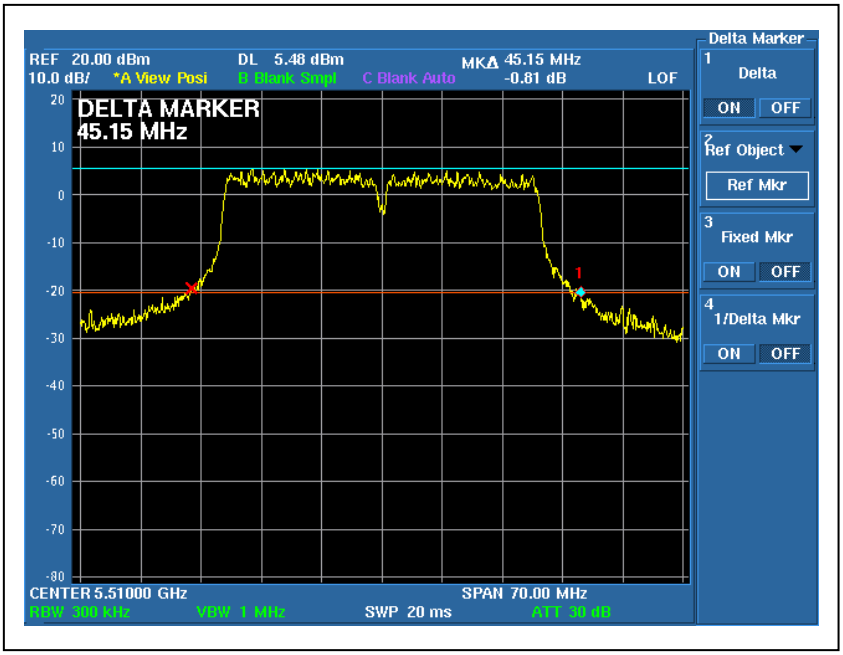
CH3


REF 20.00 dBm
DL 5.05 dBm
MKΔ 45.22 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.33 dB
LOF
DELTA MARKER
45.22 MHz
CENTER 5.27000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

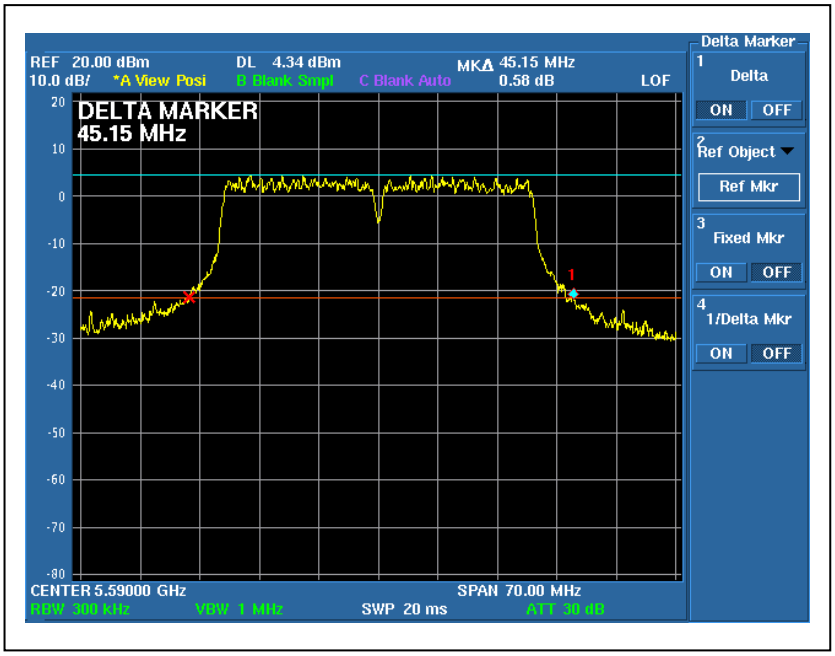
CH4


REF 20.00 dBm
DL 4.97 dBm
MKΔ 45.29 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.59 dB
LOF
DELTA MARKER
45.29 MHz
CENTER 5.31000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

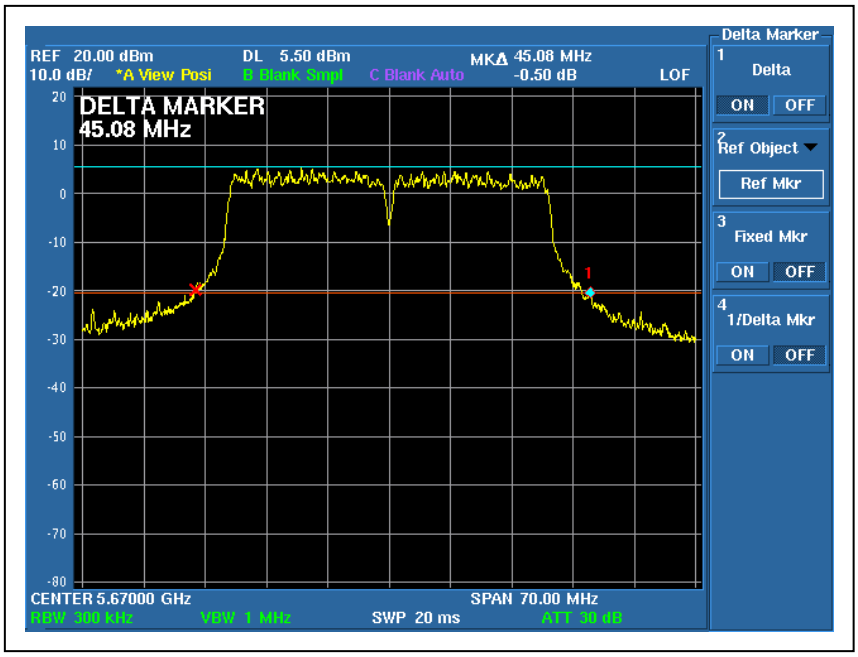
CH5


REF 20.00 dBm
DL 5.48 dBm
MKΔ 45.15 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.81 dB
LOF
DELTA MARKER
45.15 MHz
CENTER 5.51000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

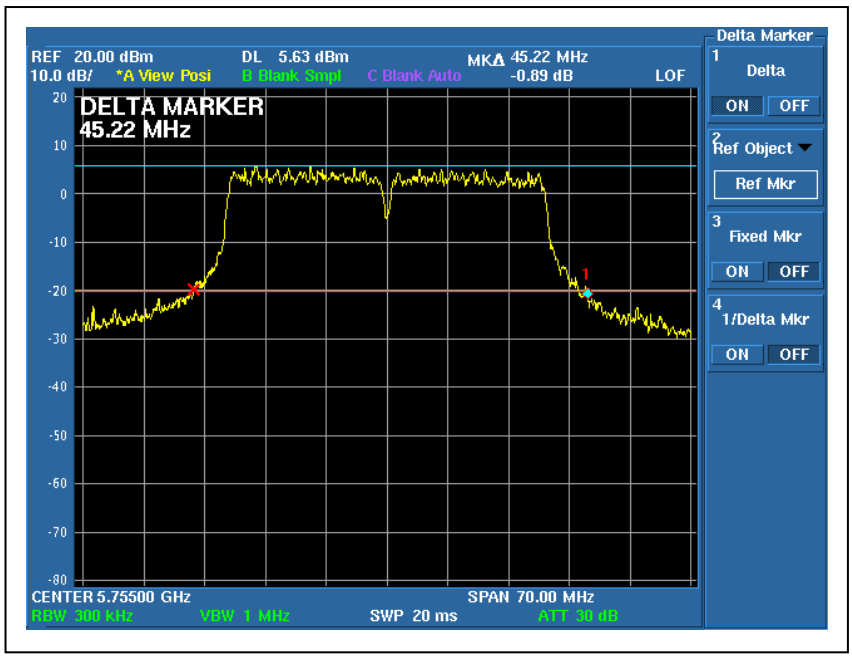
CH7


REF 20.00 dBm
DL 4.34 dBm
MKΔ 45.15 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
0.58 dB
LOF
DELTA MARKER
45.15 MHz
CENTER 5.59000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

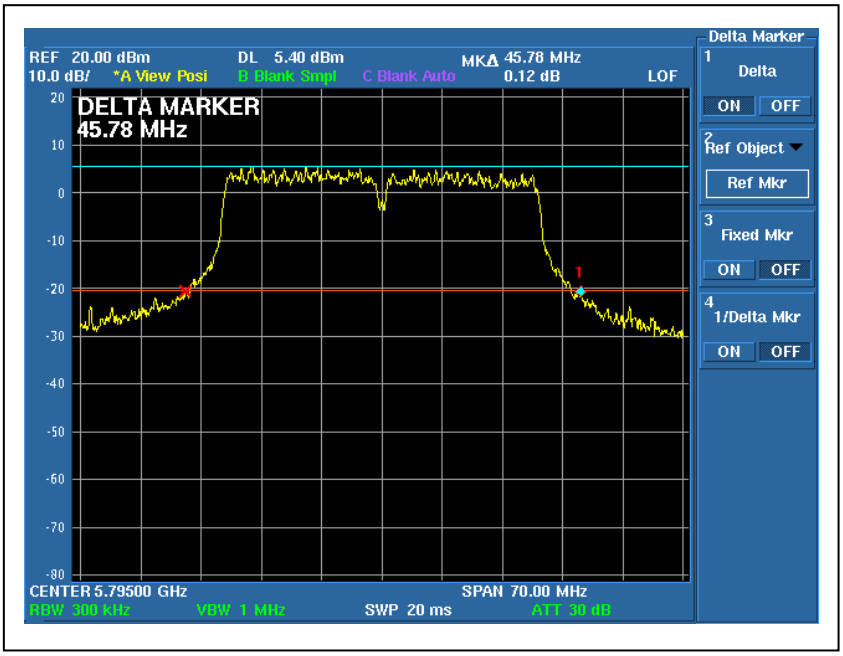
CH9


REF 20.00 dBm
DL 5.50 dBm
MKΔ 45.08 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.50 dB
LOF
DELTA MARKER
45.08 MHz
CENTER 5.67000 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

CH10


REF 20.00 dBm
DL 5.63 dBm
MKΔ 45.22 MHz
10.0 dB/ *A View Posi
B Blank Smpl
C Blank Auto
-0.89 dB
LOF
DELTA MARKER
45.22 MHz
CENTER 5.75500 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1 Delta
ON OFF
2 Ref Object
Ref Mkr
3 Fixed Mkr
ON OFF
4 1/Delta Mkr
ON OFF

CH11


REF 20.00 dBm
10.0 dB/ *A View Posi
DL 5.40 dBm
B Blank Smpl
C Blank Auto
MKΔ 45.78 MHz
0.12 dB
LOF
DELTA MARKER
45.78 MHz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
CENTER 5.79500 GHz
SPAN 70.00 MHz
RBW 300 kHz
VBW 1 MHz
SWP 20 ms
ATT 30 dB
Delta Marker
1
Delta
ON
OFF
2
Ref Object
Ref Mkr
3
Fixed Mkr
ON
OFF
4
1/Delta Mkr
ON
OFF

4.4 PEAK POWER EXCURSION MEASUREMENT

4.4.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Frequency Band	Limit
5.15 – 5.25 GHz	13dB
5.25 – 5.35 GHz	13dB
5.47 – 5.725GHz	13dB
5.725 – 5.825 GHz	13dB

4.4.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ADVANTEST SPECTRUM ANALYZER	U3772	160100280	July 26, 2008	July 25, 2009

NOTE:

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

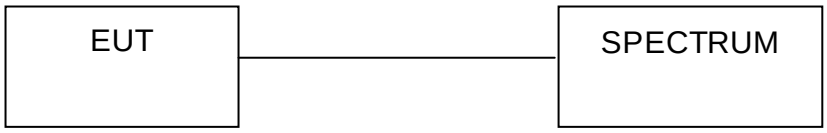
4.4.3 TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer.
2. Set the spectrum bandwidth span to view the entire spectrum.
3. Using peak detector and Max-hold function for Trace 1 (RB=1MHz, VB=3MHz) and 2 (RB=1MHz, VB=300KHz).
4. The largest difference between Trace 1 and Trace 2 in any 1MHz band on any frequency was recorded.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

4.4.5 TEST SETUP



4.4.6 EUT OPERATING CONDITIONS

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

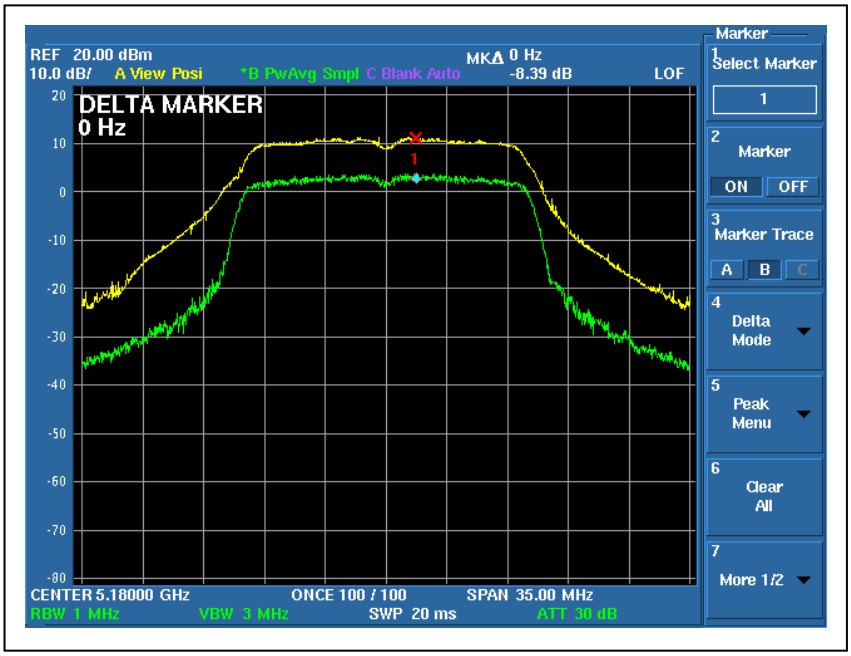
4.4.7 TEST RESULTS

802.11a OFDM modulation

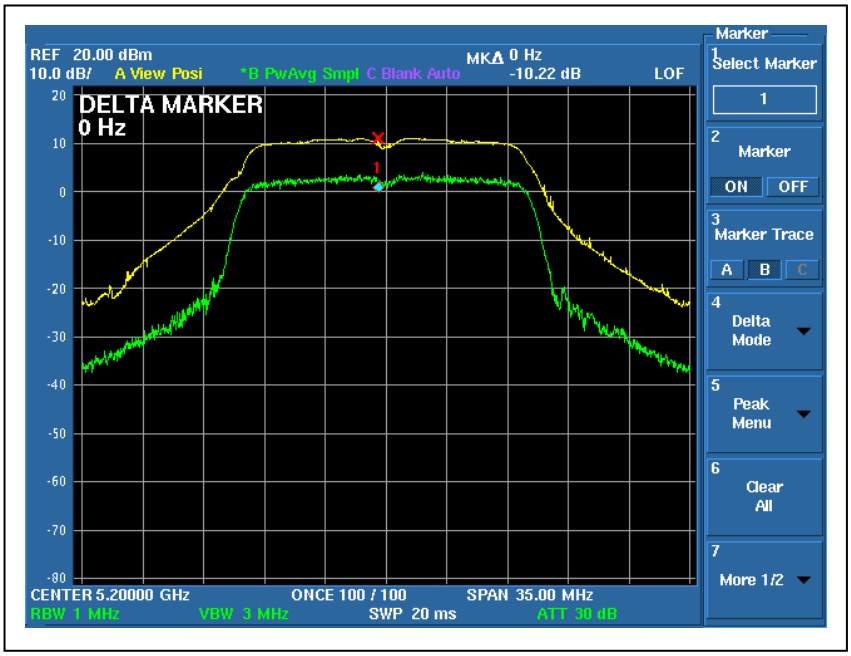
MODULATION TYPE	BPSK	**TRANSFER RATE**	6Mbps
INPUT POWER	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)	PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
1	5180	8.39	13	PASS
2	5200	10.22	13	PASS
4	5240	10.09	13	PASS
5	5260	7.72	13	PASS
7	5300	9.18	13	PASS
8	5320	8.97	13	PASS
9	5500	8.09	13	PASS
14	5600	8.03	13	PASS
19	5700	9.02	13	PASS
20	5745	9.30	13	PASS
22	5785	7.77	13	PASS
23	5805	9.76	13	PASS

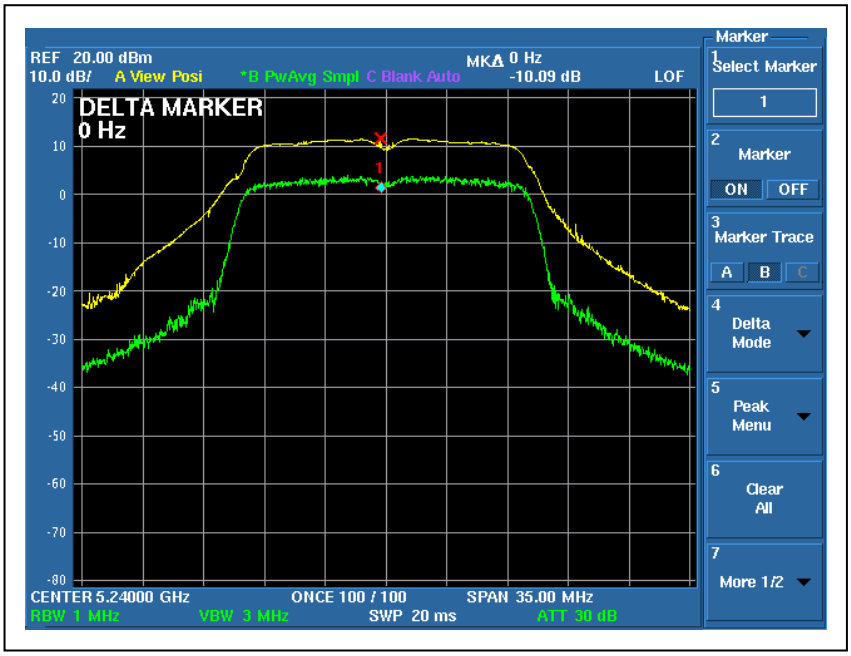
CH1


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg 3mpl C Blank Auto
MKΔ 0 Hz
-8.39 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.18000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

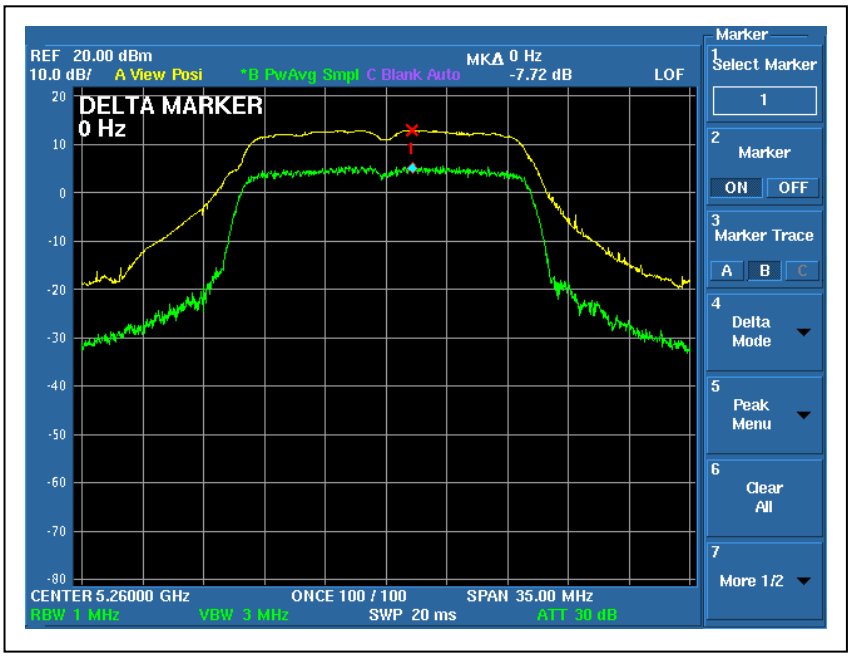
CH2


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg 3mpl C Blank Auto
MKΔ 0 Hz
-10.22 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.20000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

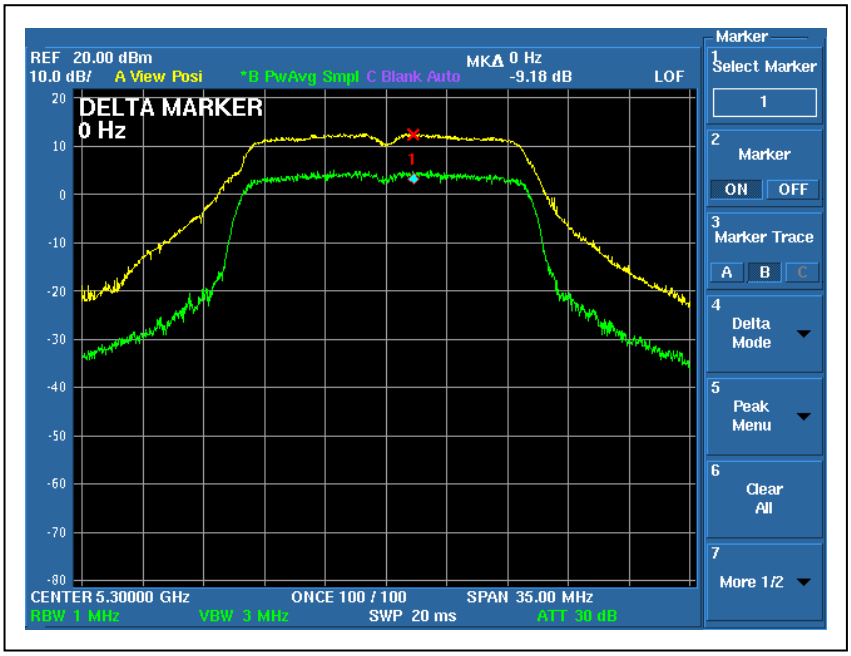
CH4


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.09 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.24000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

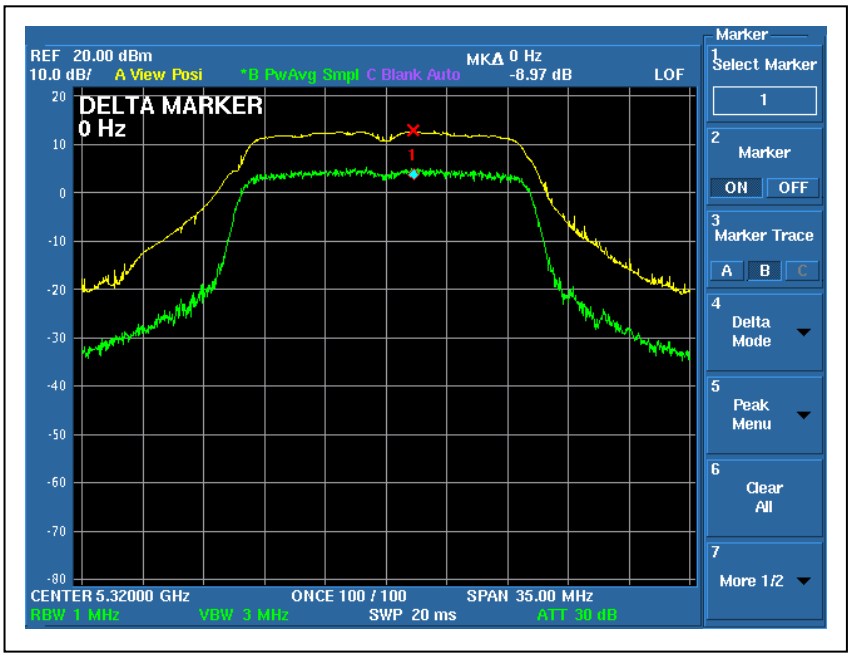
CH5


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-7.72 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.26000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

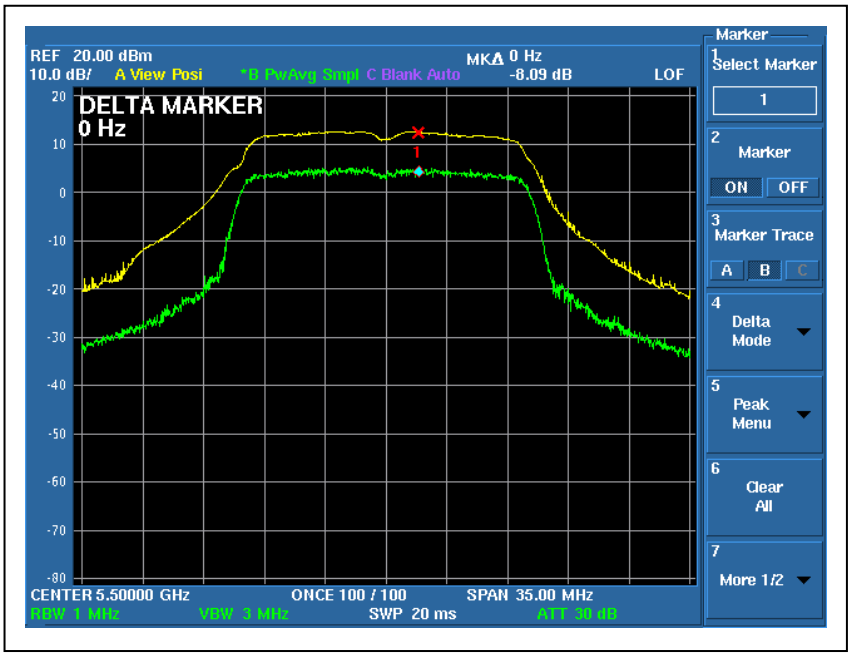
CH7


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.18 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.30000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

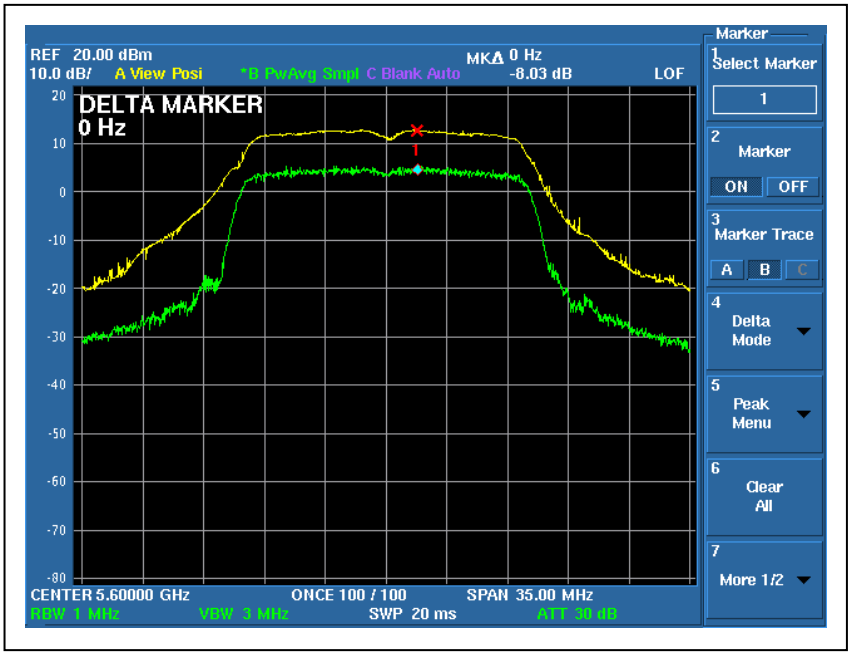
CH8


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-8.97 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.32000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

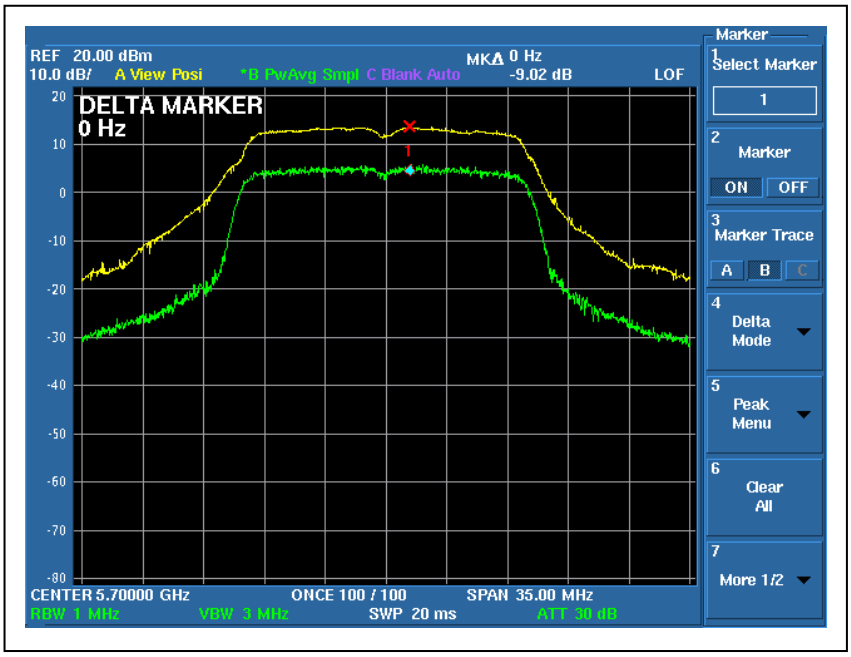
CH9


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-8.09 dB
LOF
DELTA MARKER
0 Hz
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2
CENTER 5.50000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

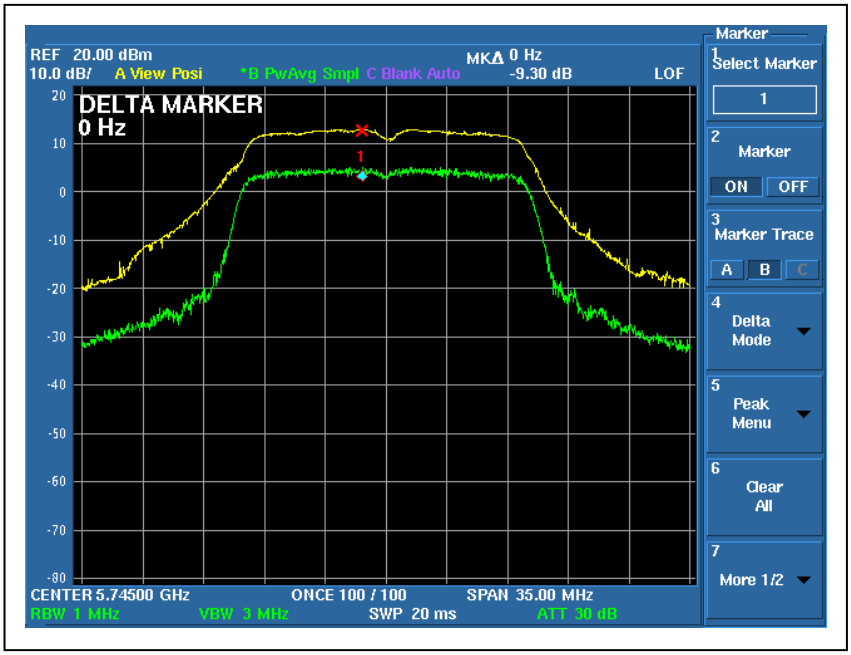
CH14


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-8.03 dB
LOF
DELTA MARKER
0 Hz
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2
CENTER 5.60000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

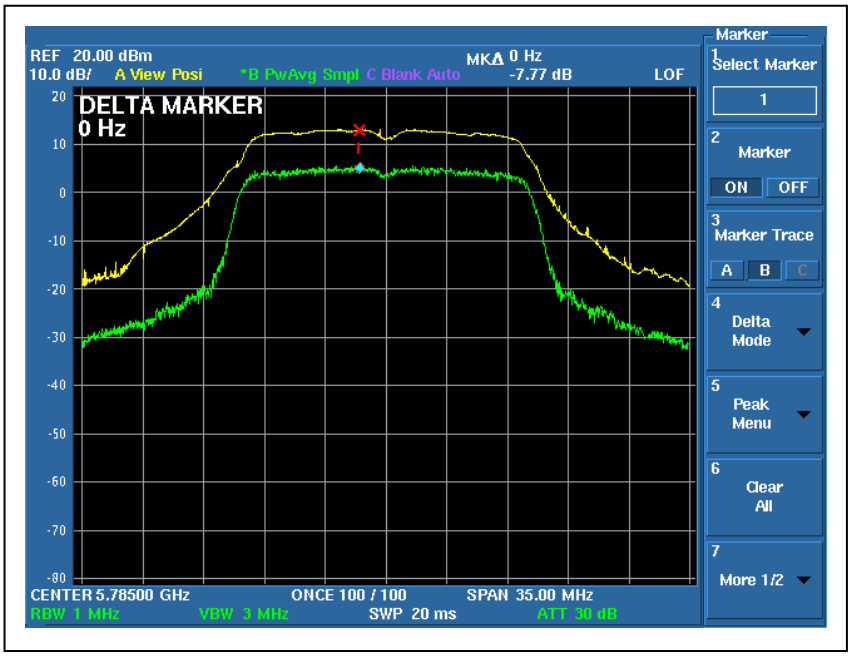
CH19


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
*B PwAvg Smpl C Blank Auto
-9.02 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

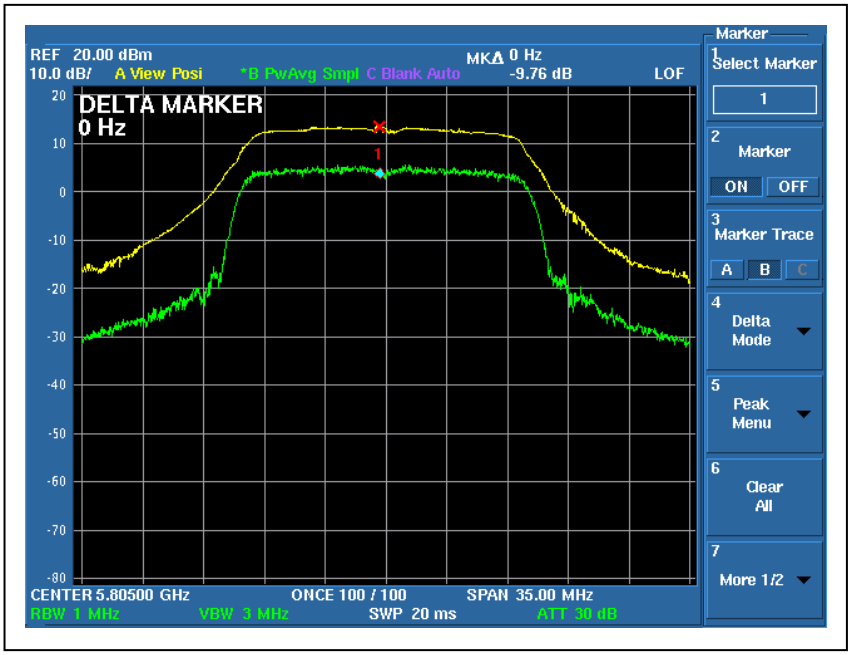
CH20


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
*B PwAvg Smpl C Blank Auto
-9.30 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

CH22


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-7.77 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

CH23

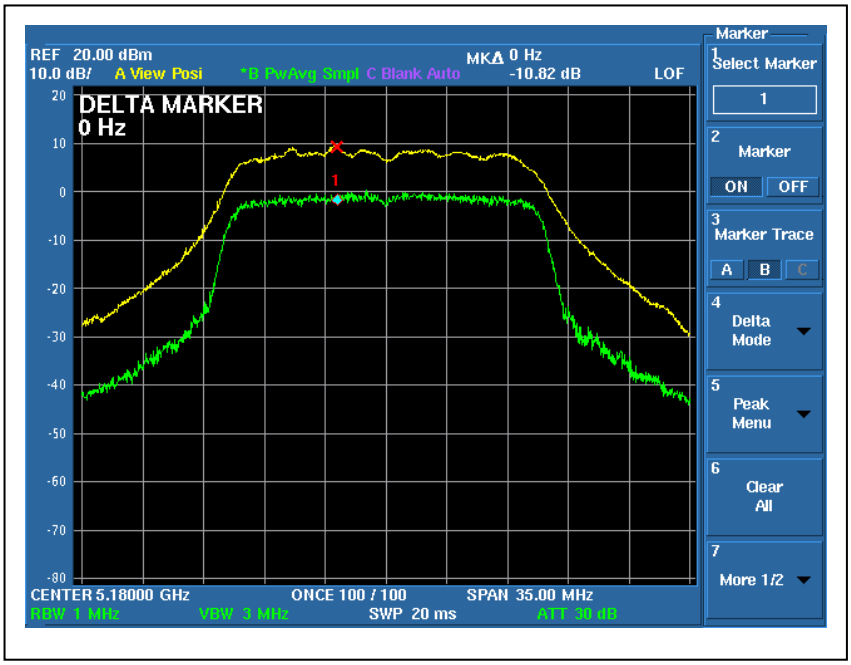

REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.76 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

DRAFT 802.11n (20MHz) OFDM MODULATION:

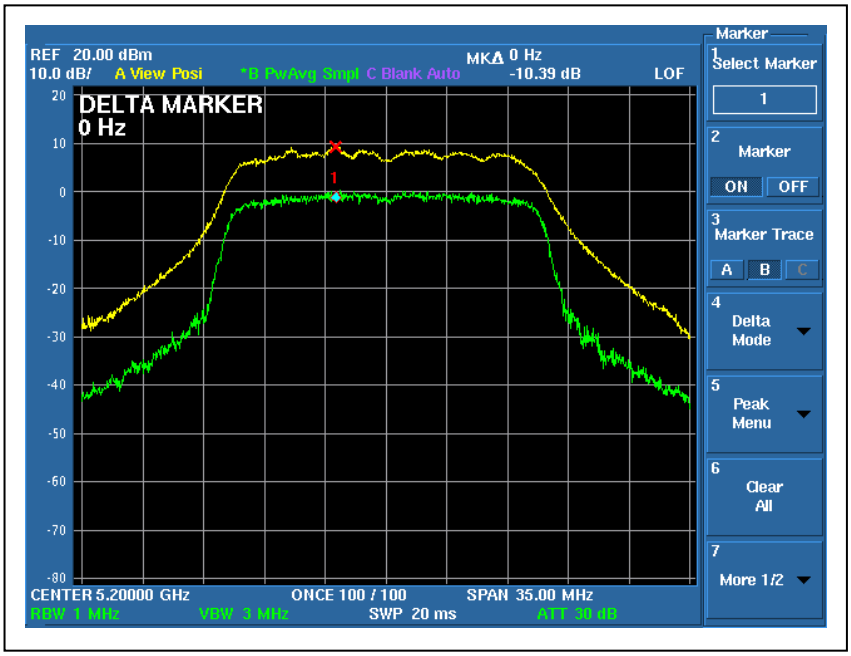
MODULATION TYPE	BPSK	**TRANSFER RATE**	13Mbps
INPUT POWER	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)		PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		Chain (0)	Chain(1)		
1	5180	10.82	9.65	13	PASS
2	5200	10.39	10.12	13	PASS
4	5240	10.55	10.72	13	PASS
5	5260	10.31	9.59	13	PASS
7	5300	10.67	9.61	13	PASS
8	5320	11.32	9.73	13	PASS
9	5500	9.99	10.34	13	PASS
14	5600	10.49	9.41	13	PASS
19	5700	9.27	10.23	13	PASS
20	5745	7.90	10.05	13	PASS
22	5785	10.29	10.24	13	PASS
23	5805	10.39	9.71	13	PASS

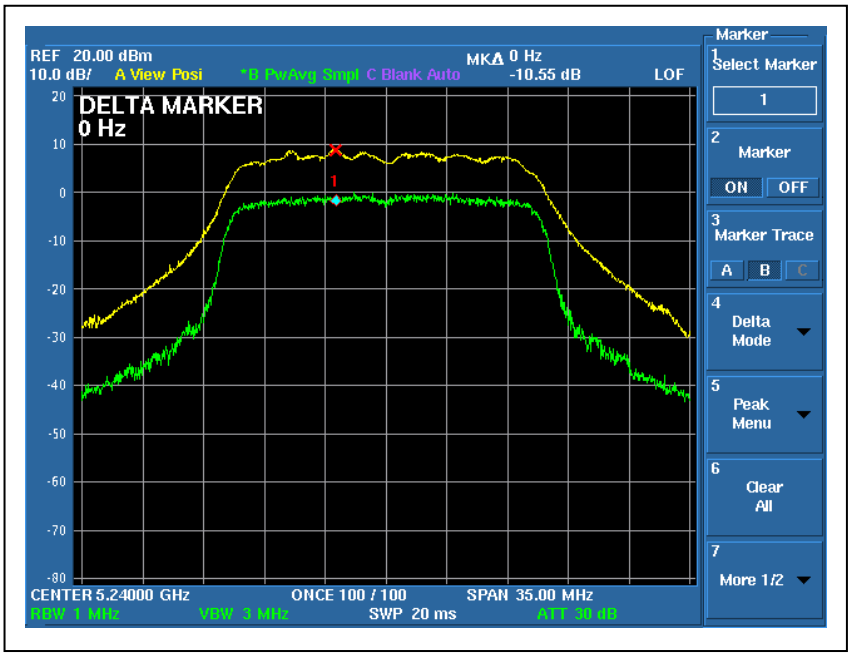
For Chain (0) : CH1



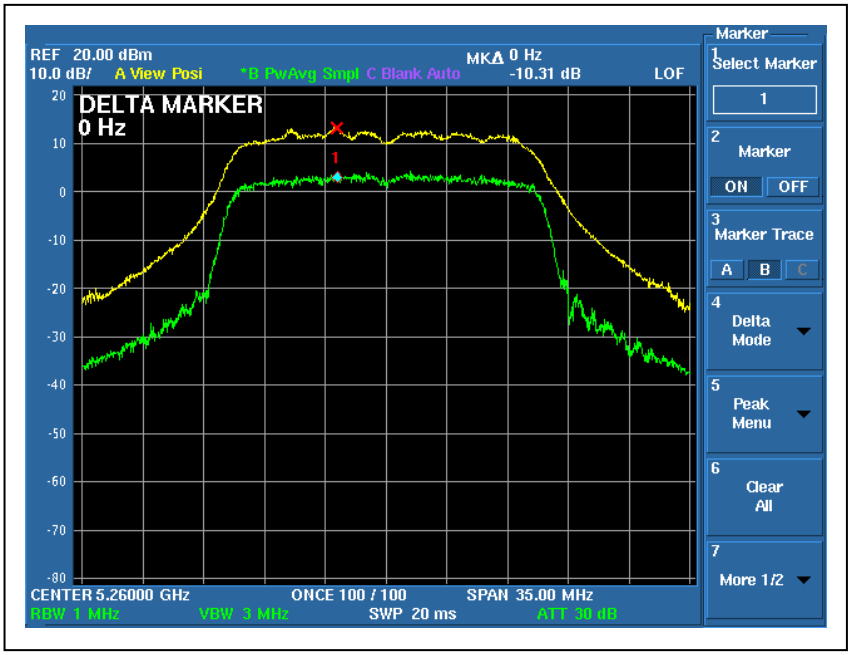
CH2



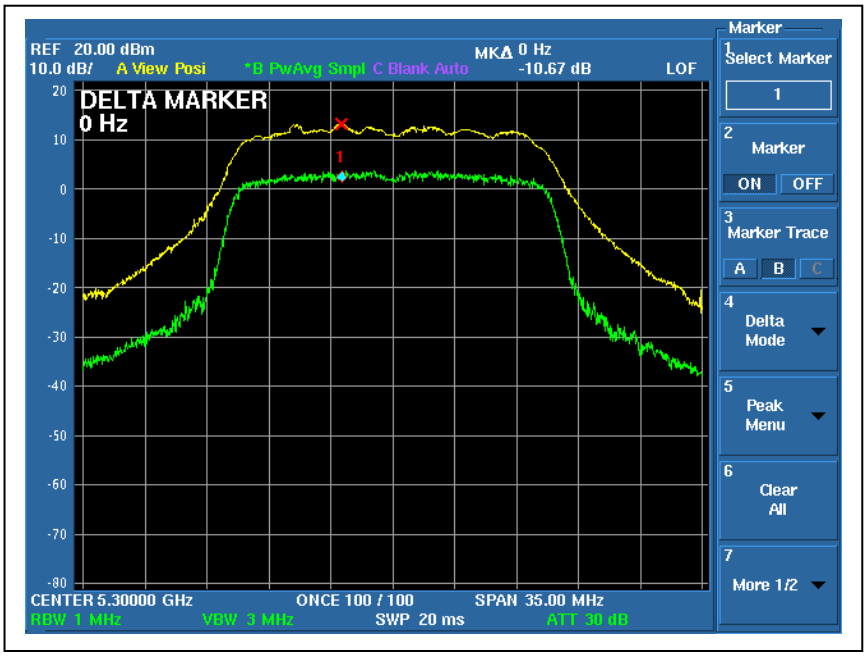
CH4


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.55 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.24000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

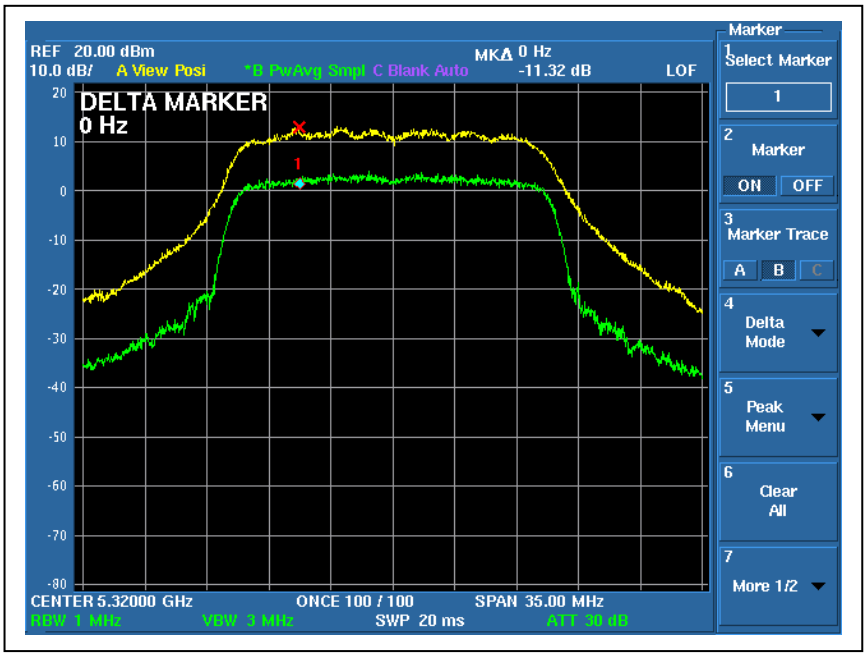
CH5


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.31 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.26000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

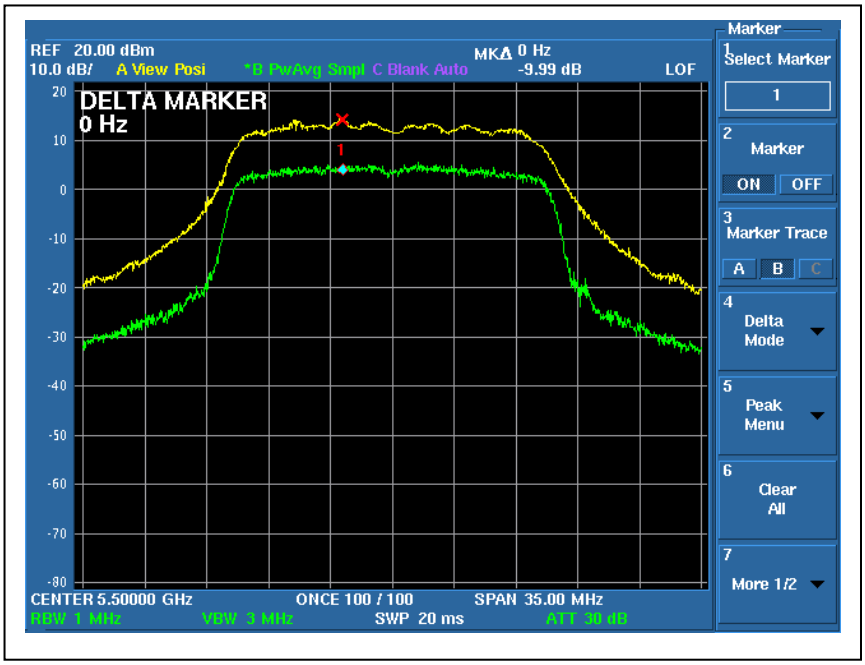
CH7


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.67 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.30000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

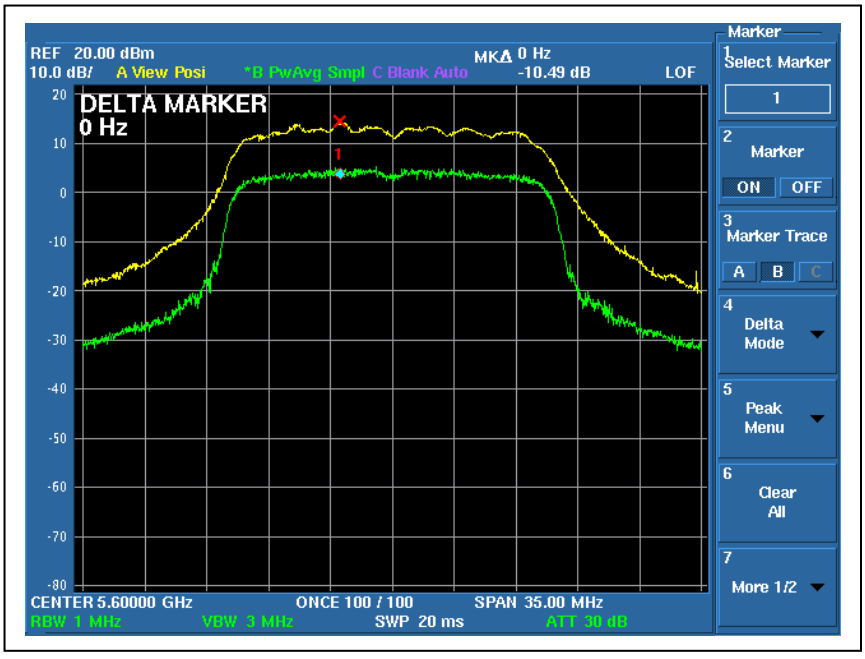
CH8


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-11.32 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.32000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

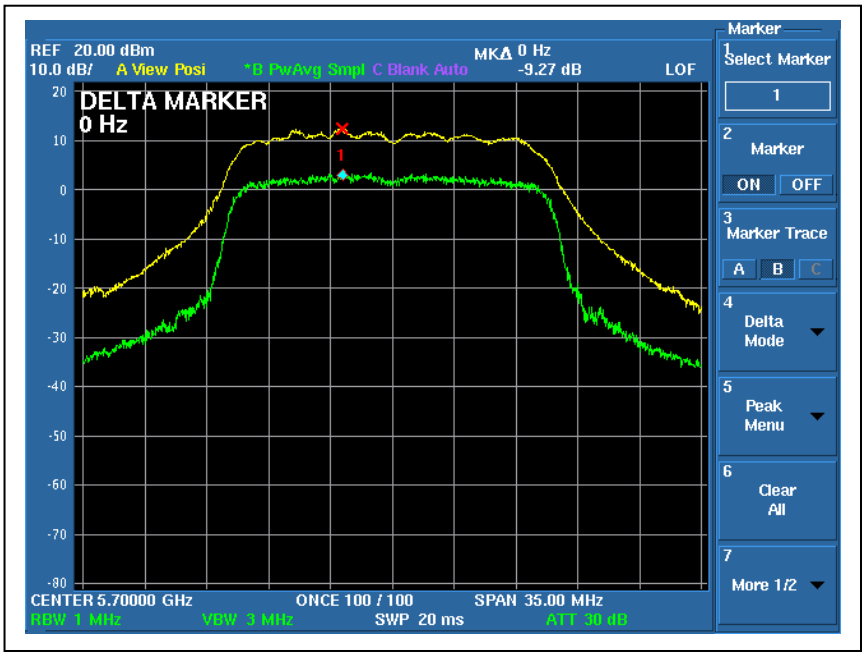
CH9


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
*B PwAvg Smpl C Blank Auto
-9.99 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.50000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

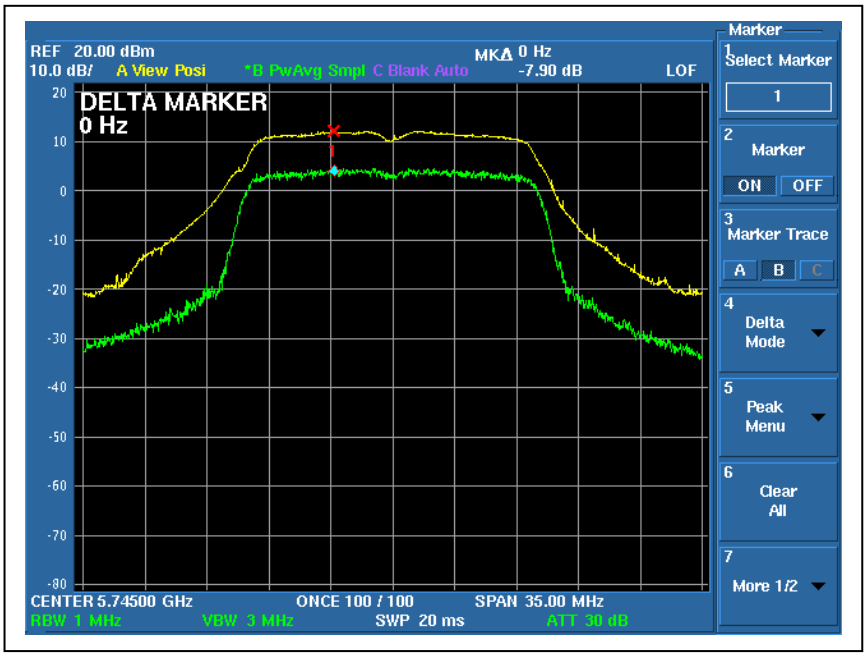
CH14


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
*B PwAvg Smpl C Blank Auto
-10.49 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.60000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

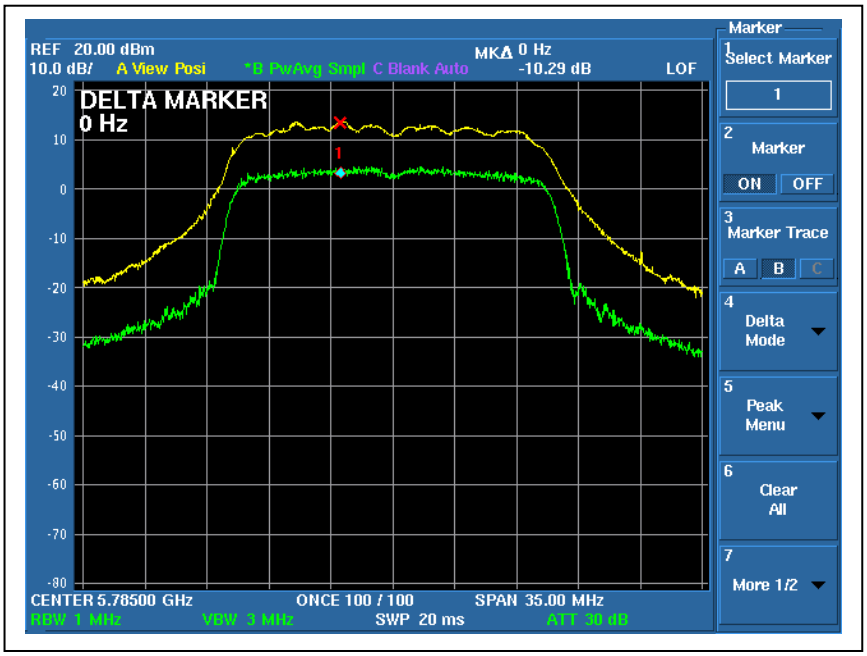
CH19


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.27 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

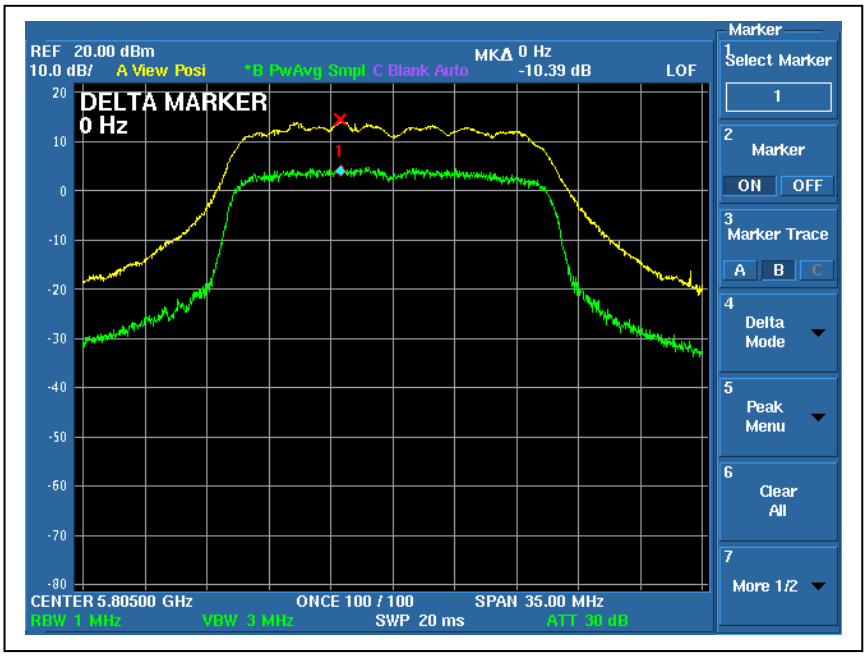
CH20


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-7.90 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

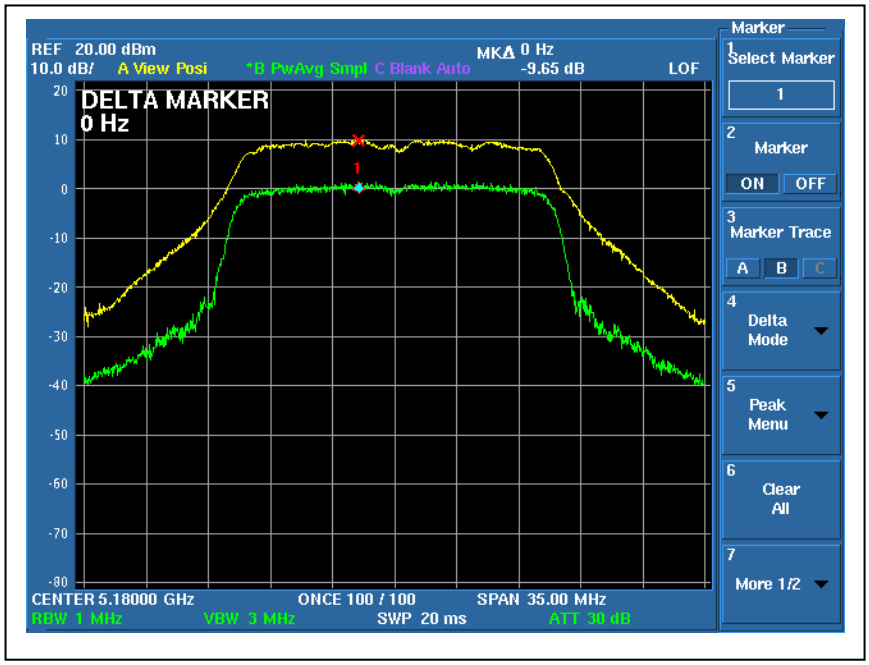
CH22


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.29 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

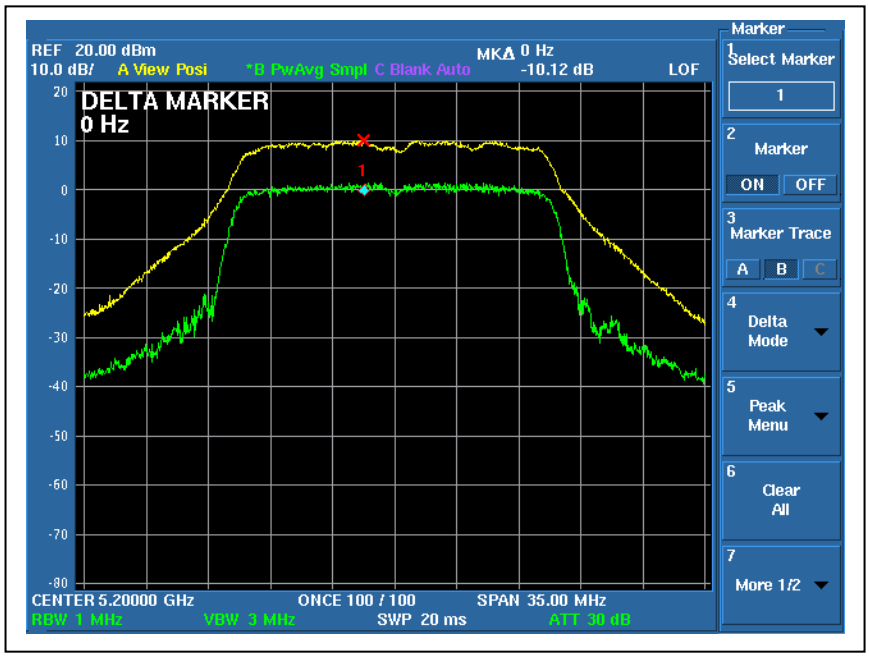
CH23


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.39 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

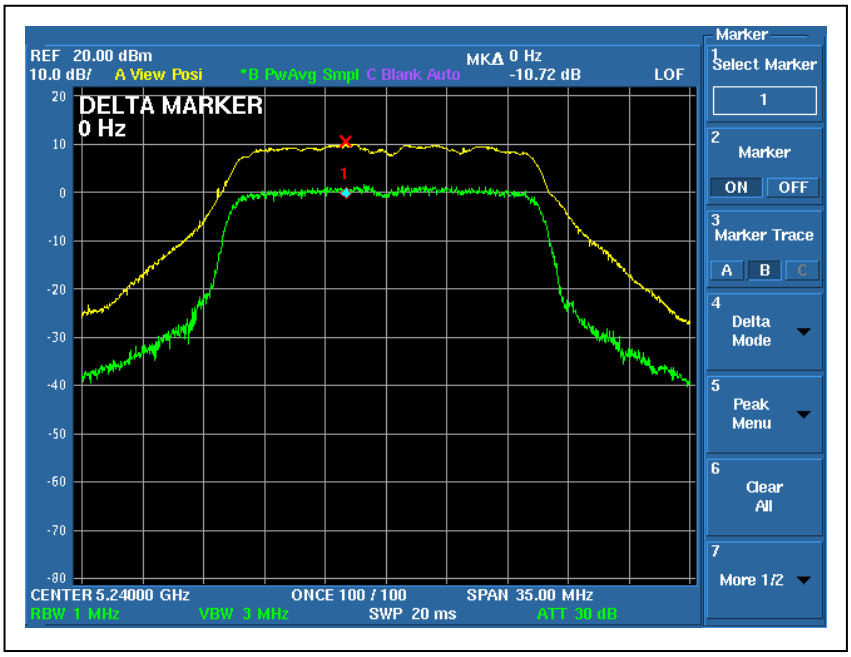
For Chain (1) : CH1



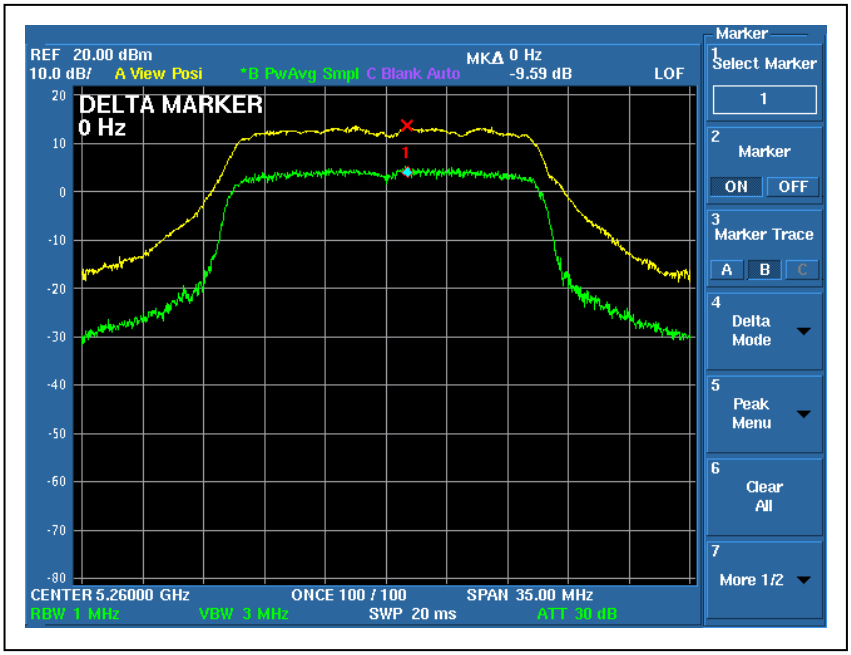
CH2



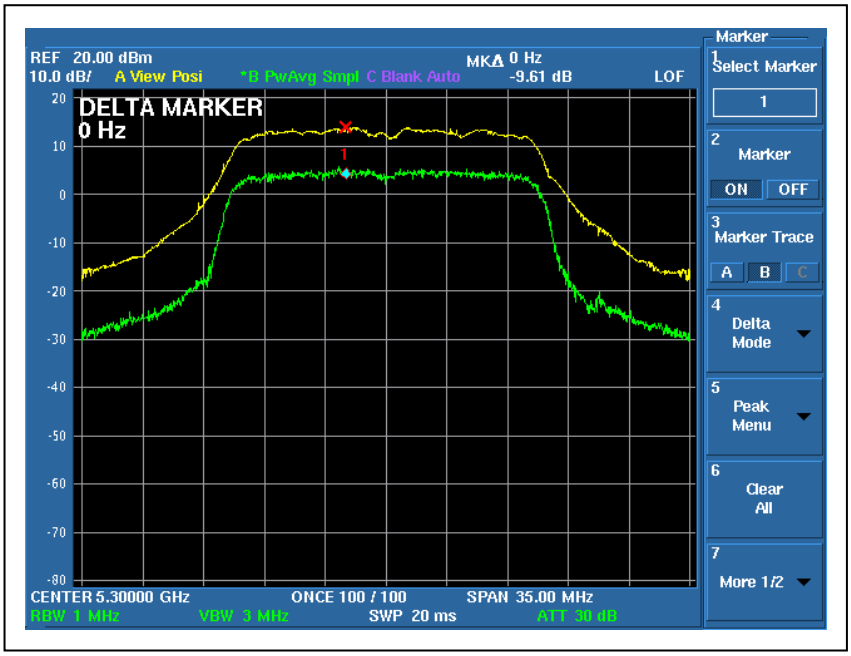
CH4


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.72 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.24000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

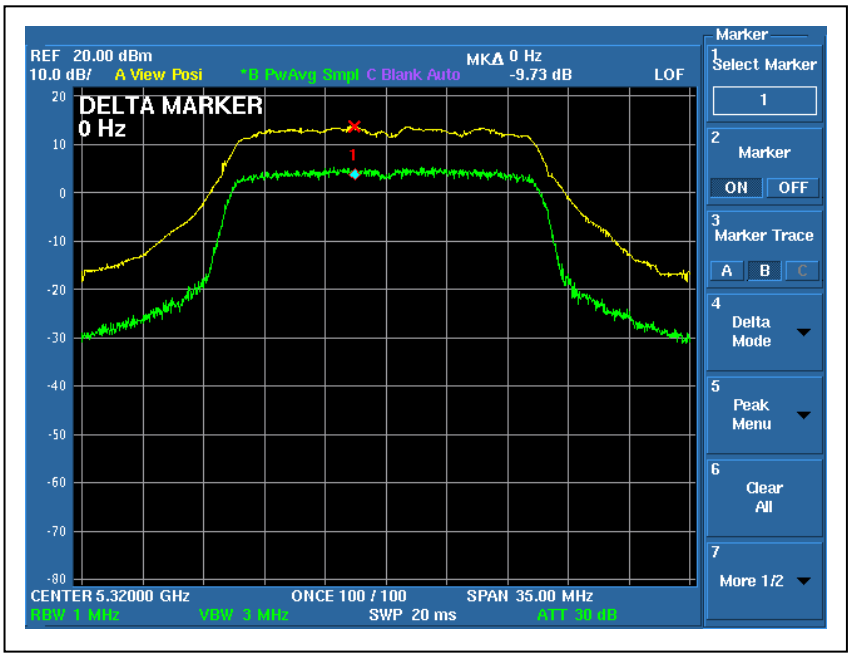
CH5


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.59 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.26000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

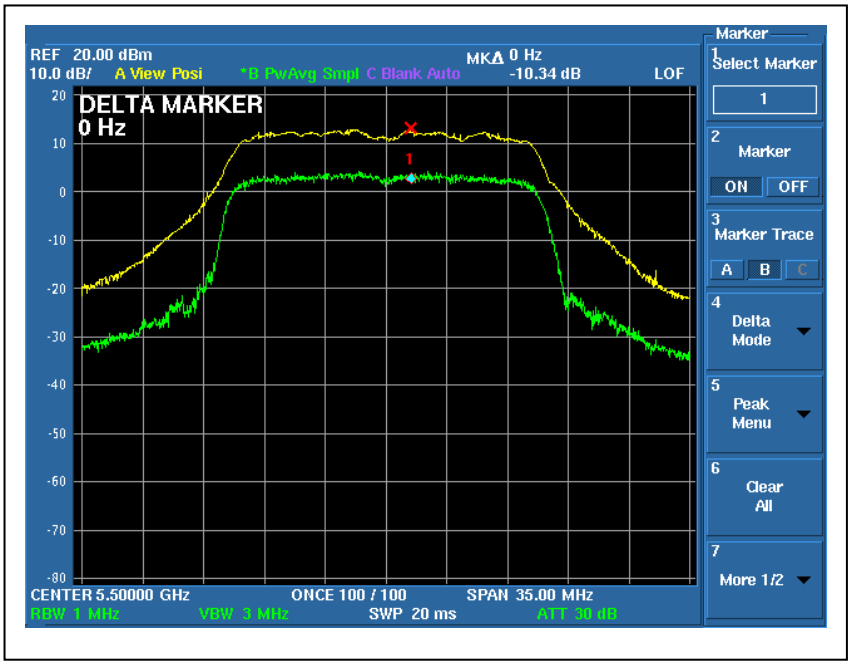
CH7


REF 20.00 dBm
MKΔ 0 Hz
10.0 dB/ A View Posi *B PwAvg Smpl C Blank Auto -9.61 dB LOF
DELTA MARKER
0 Hz
CENTER 5.30000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

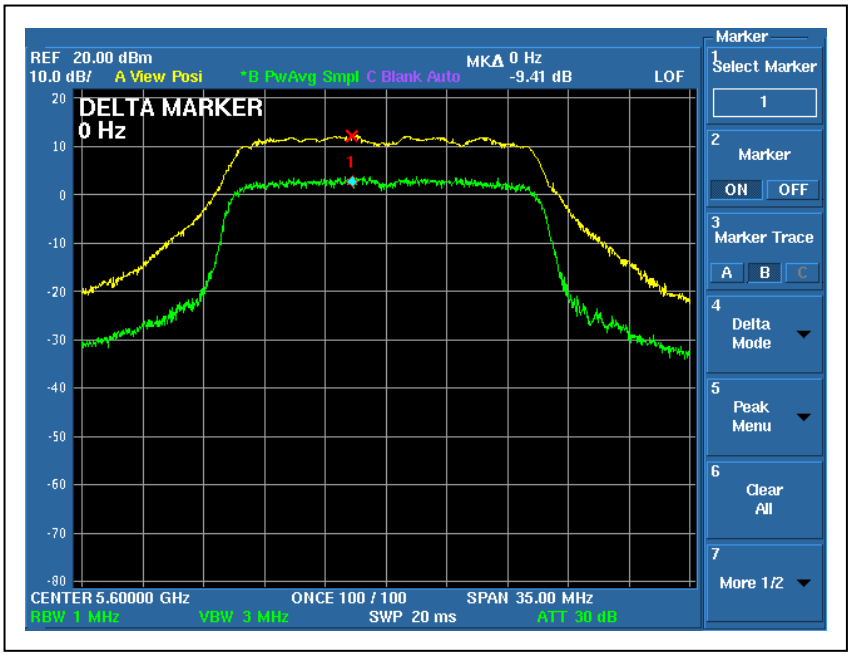
CH8


REF 20.00 dBm
MKΔ 0 Hz
10.0 dB/ A View Posi *B PwAvg Smpl C Blank Auto -9.73 dB LOF
DELTA MARKER
0 Hz
CENTER 5.32000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

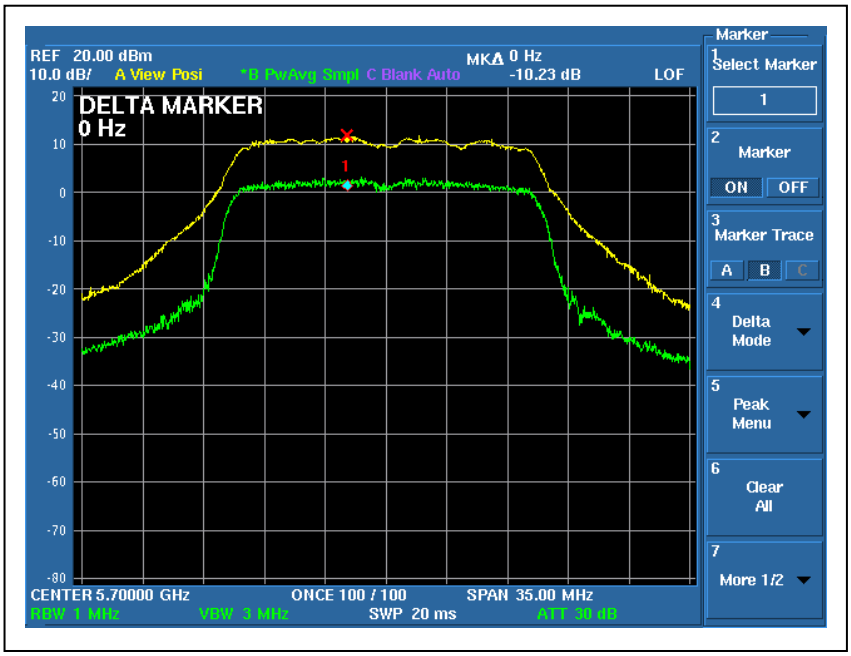
CH9


REF 20.00 dBm
MKΔ 0 Hz
10.0 dB/ A View Posi *B PwAvg Smpl C Blank Auto -10.34 dB LOF
DELTA MARKER
0 Hz
CENTER 5.50000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

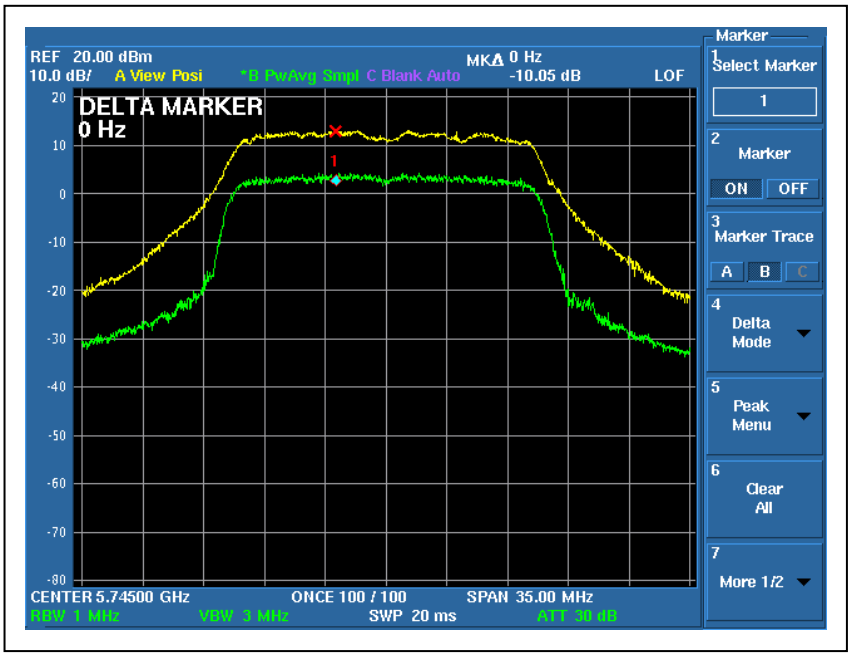
CH14


REF 20.00 dBm
MKΔ 0 Hz
10.0 dB/ A View Posi *B PwAvg Smpl C Blank Auto -9.41 dB LOF
DELTA MARKER
0 Hz
CENTER 5.60000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

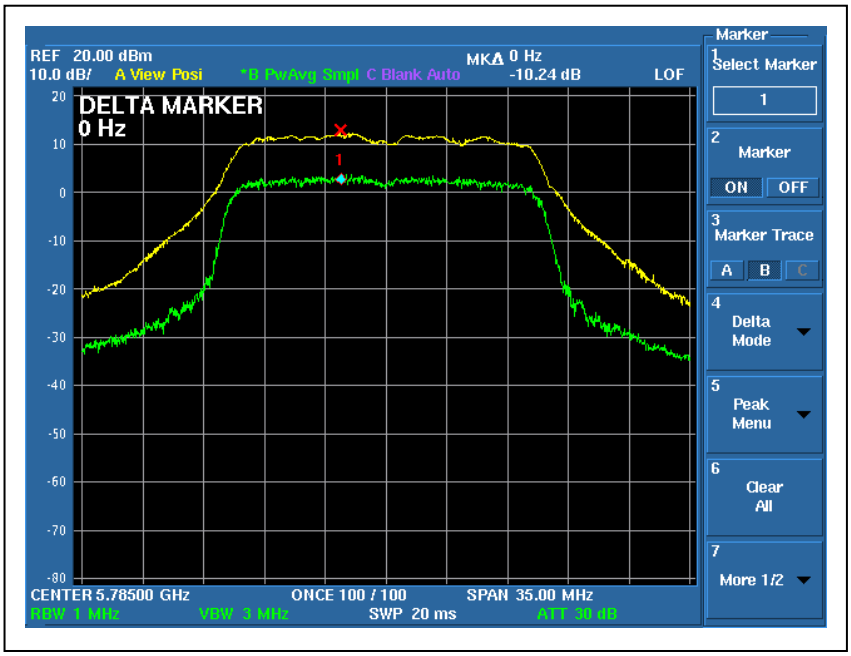
CH19


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.23 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

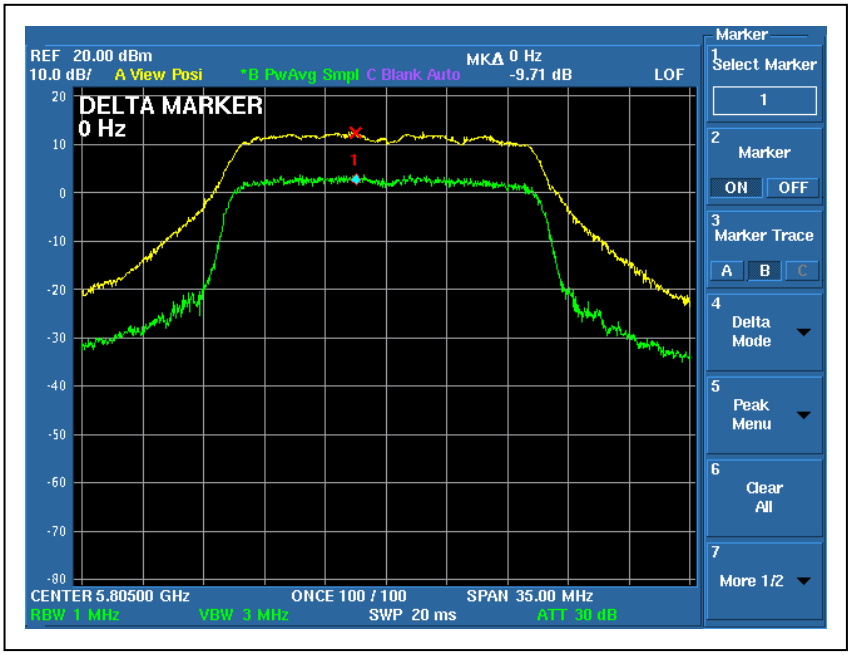
CH20


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.05 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

CH22


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.24 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

CH23

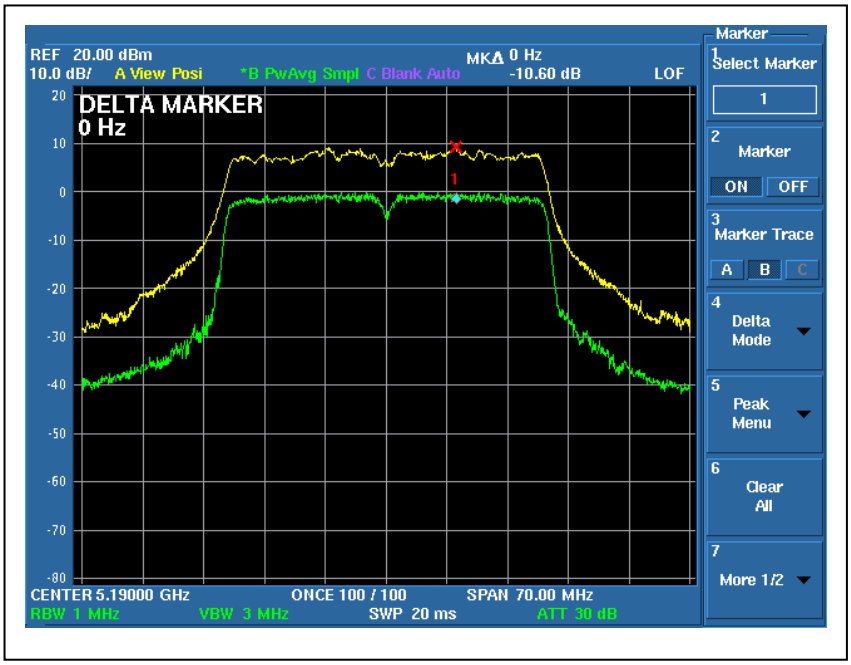

REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.71 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

DRAFT 802.11n (40MHz) OFDM MODULATION:

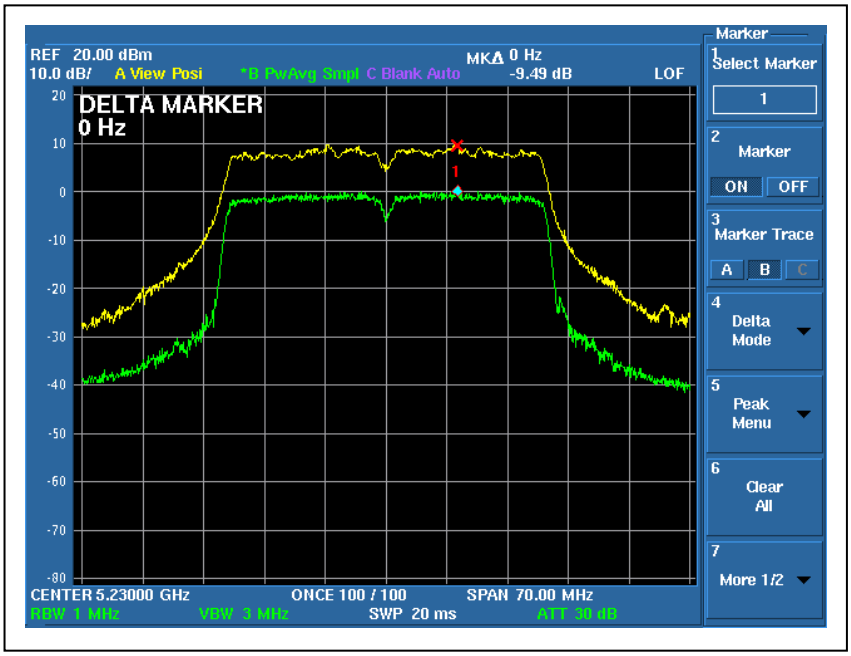
MODULATION TYPE	BPSK	TRANSFER RATE	27Mbps
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	PEAK POWER EXCURSION (dB)		PEAK to AVERAGE EXCURSION LIMIT (dB)	PASS/FAIL
		Chain (0)	Chain(1)		
1	5190	10.60	10.46	13	PASS
2	5230	9.49	9.72	13	PASS
3	5270	9.85	9.75	13	PASS
4	5310	10.59	10.19	13	PASS
5	5510	10.20	10.64	13	PASS
7	5590	10.79	10.36	13	PASS
9	5670	10.64	9.86	13	PASS
10	5755	10.71	10.50	13	PASS
11	5795	10.30	10.78	13	PASS

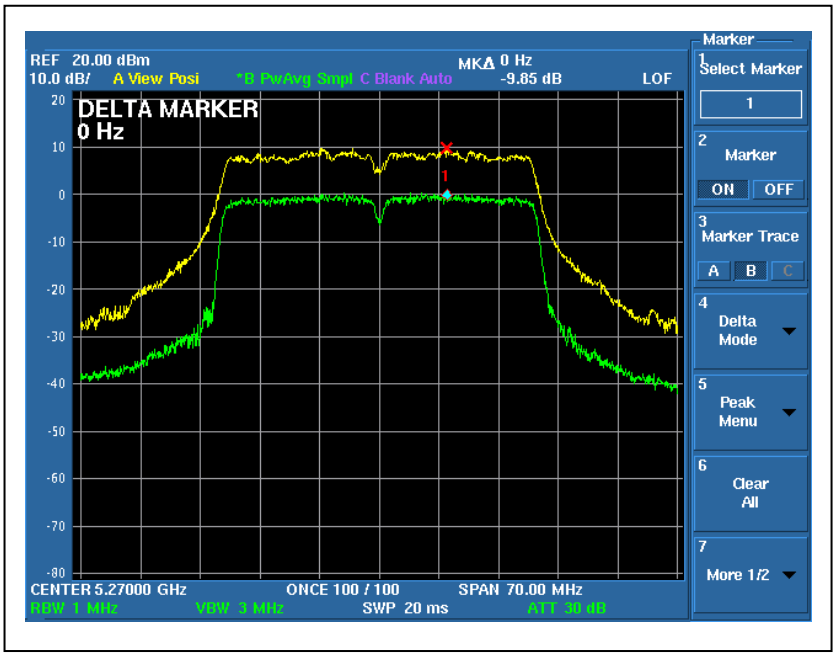
For Chain (0) : CH1



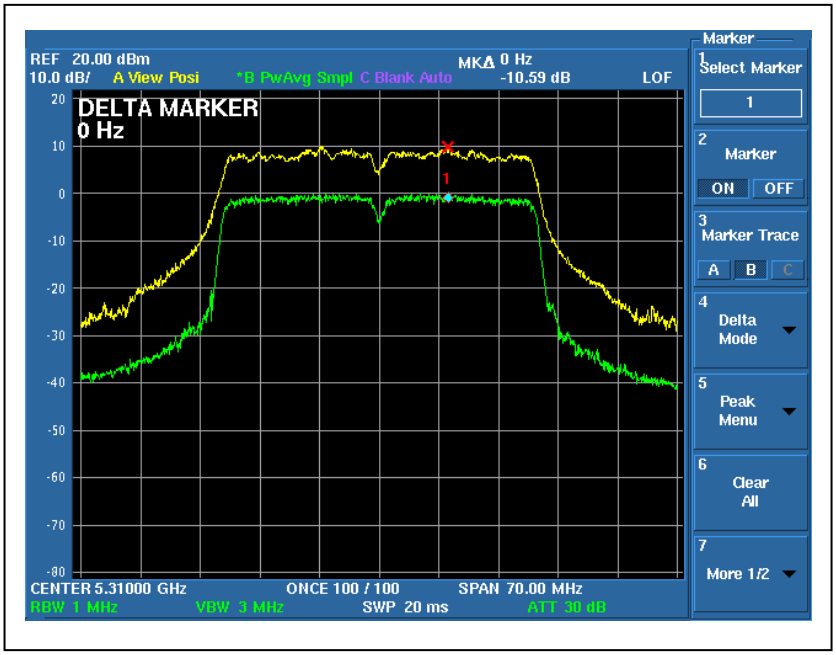
CH2



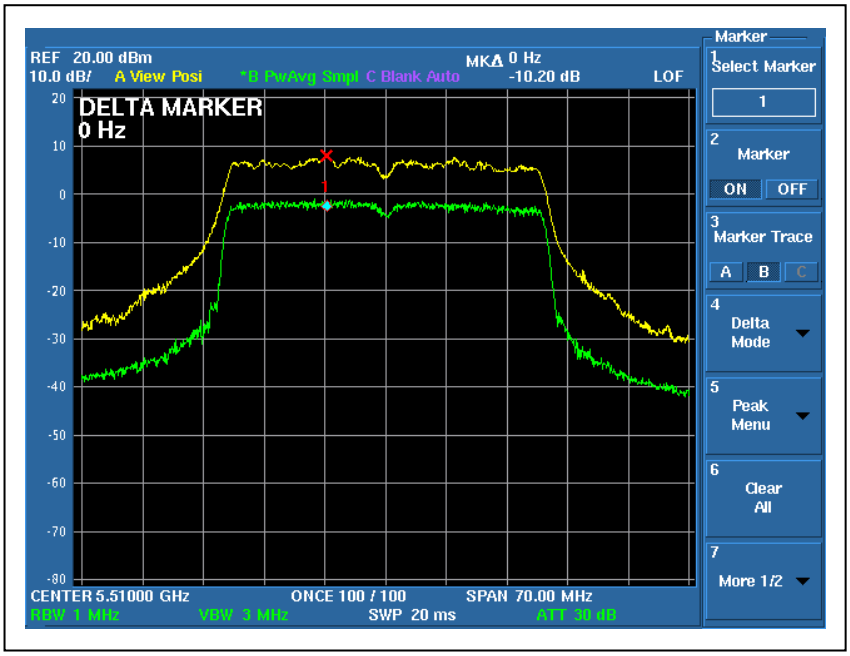
CH3


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
*B PwAvg Smpl C Blank Auto -9.85 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.27000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

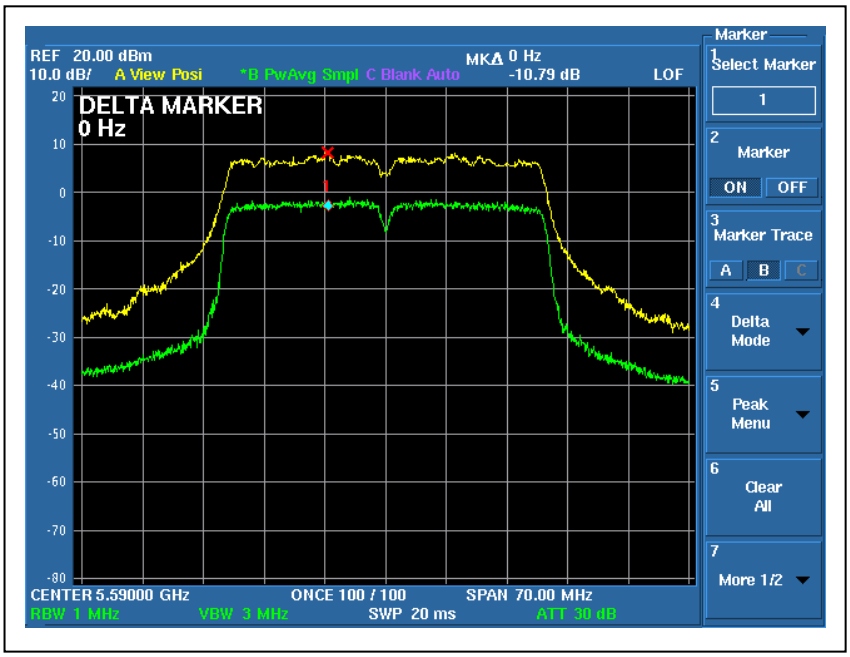
CH4


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
*B PwAvg Smpl C Blank Auto -10.59 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.31000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

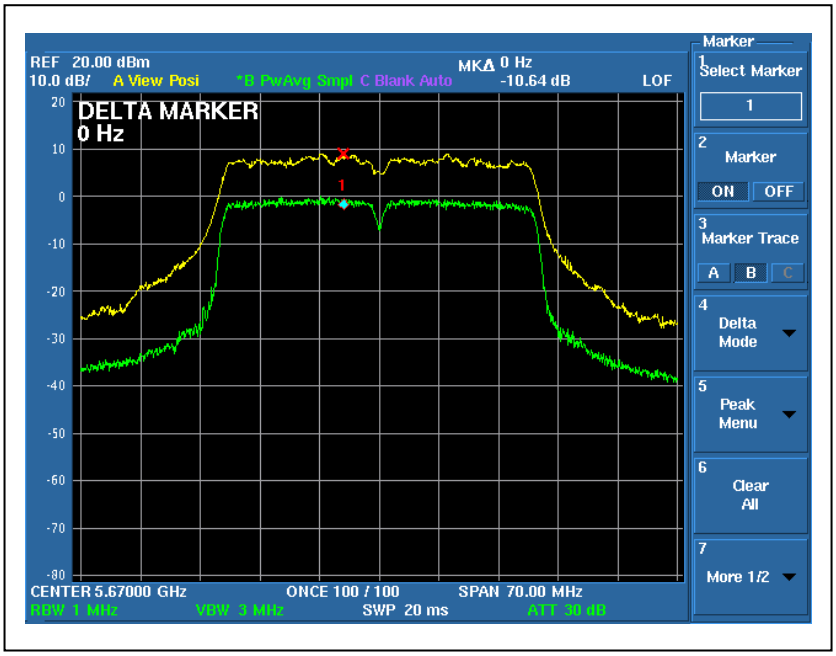
CH5


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.20 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.51000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

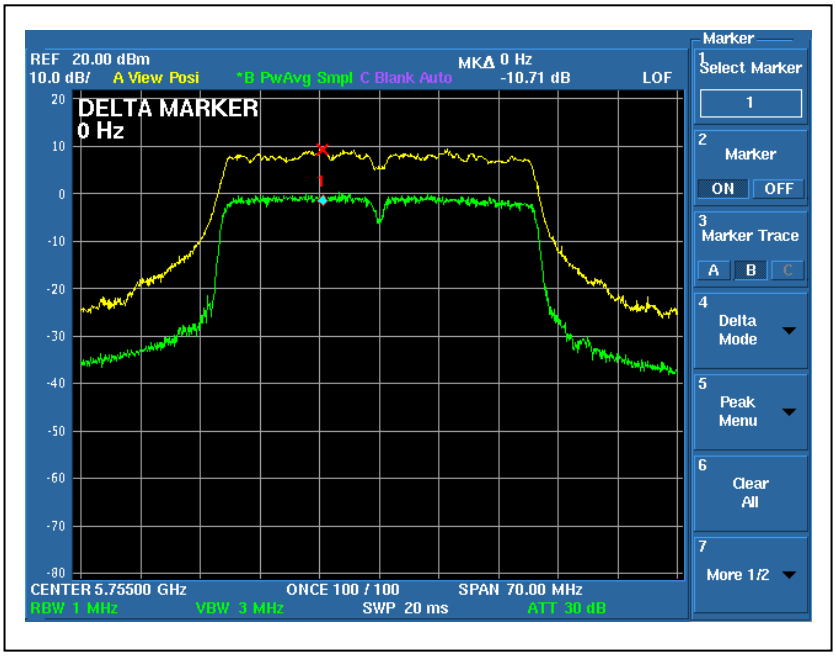
CH7


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.79 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.59000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

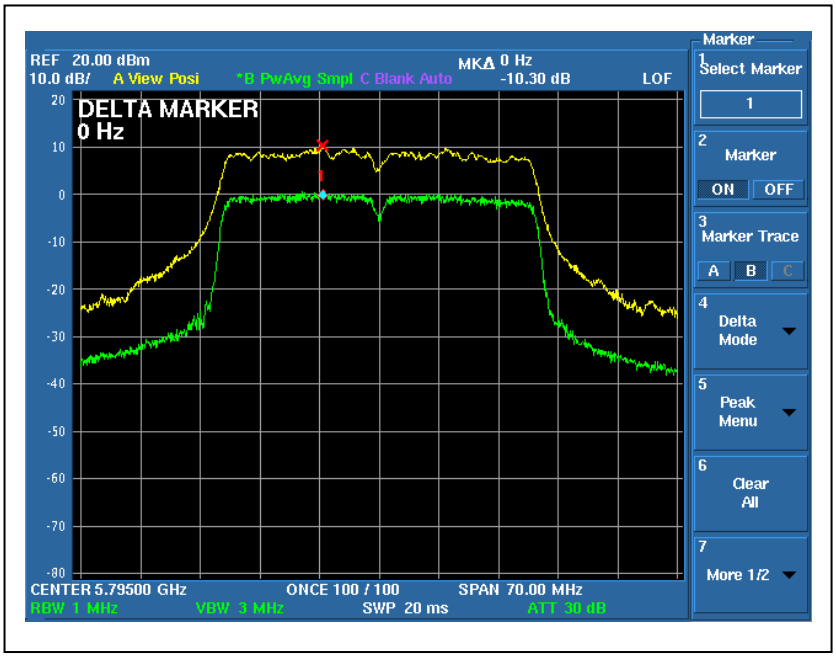
CH9


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.64 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.67000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

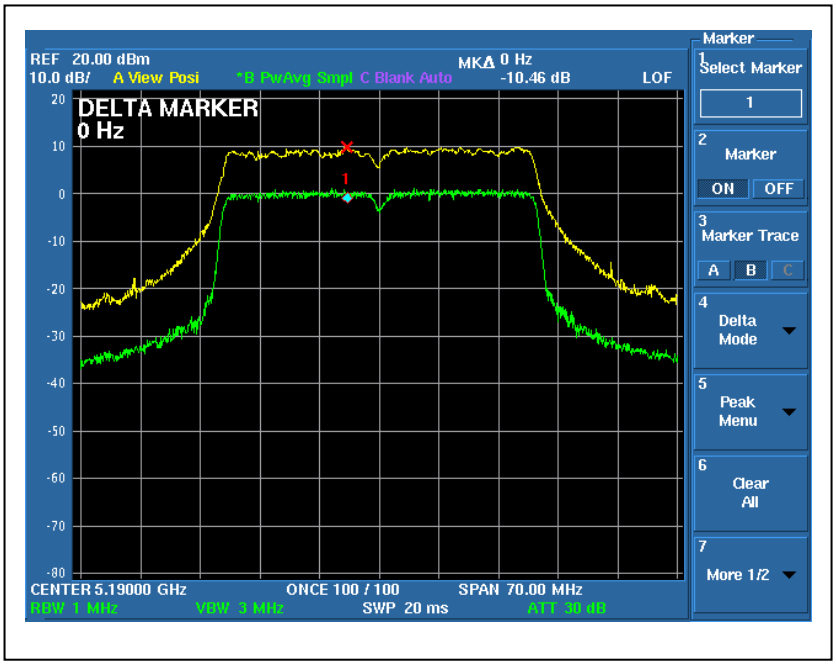
CH10


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.71 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.75500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

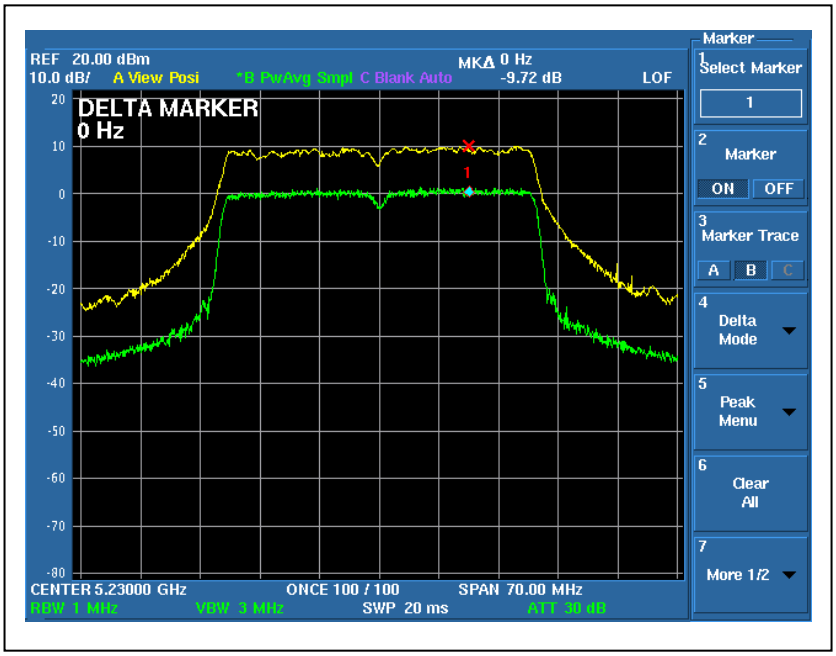
CH11


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwrAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.30 dB
LOF
DELTA MARKER
0 Hz
20
10
0
-10
-20
-30
-40
-50
-60
-70
-80
CENTER 5.79500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

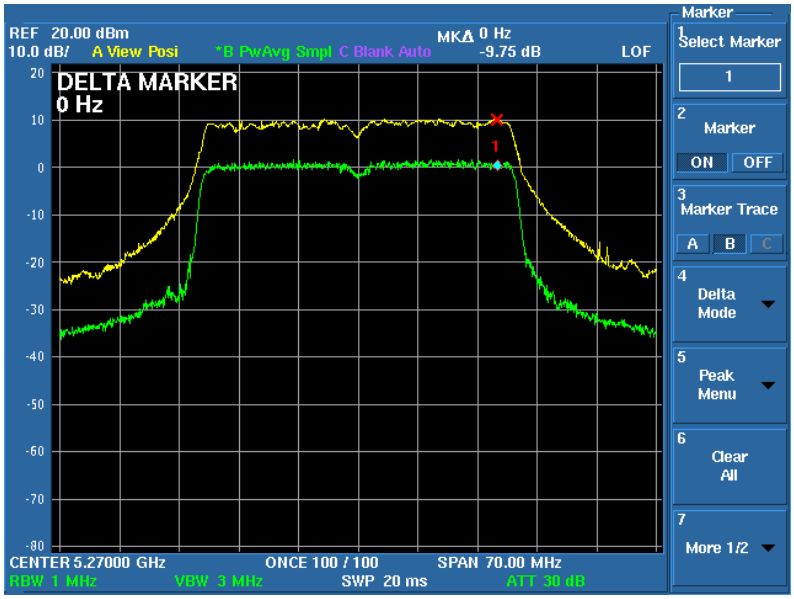
For Chain (1) : CH1



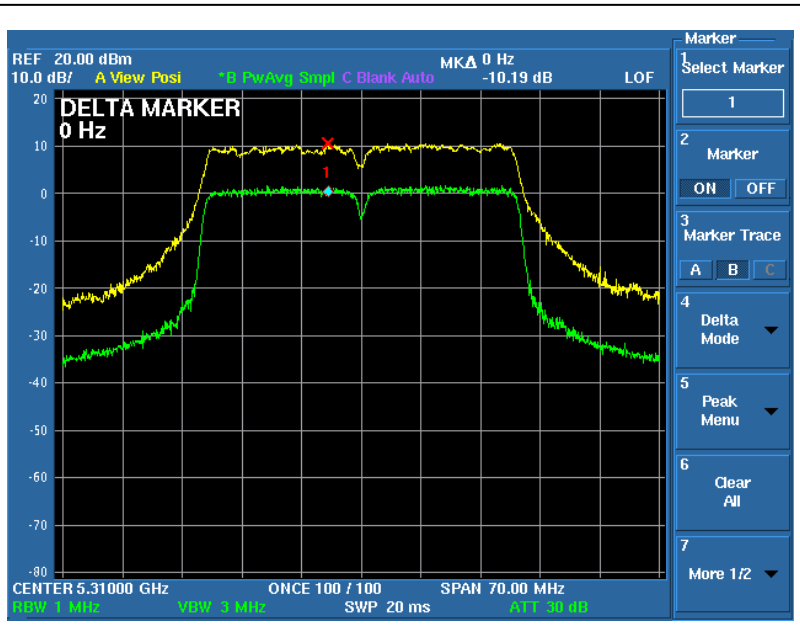
CH2



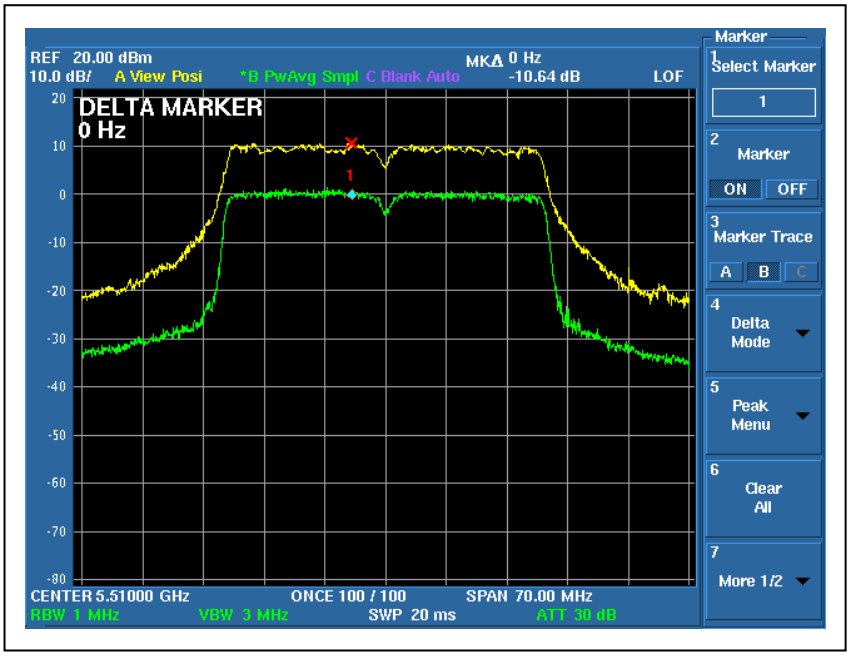
CH3


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.75 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.27000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

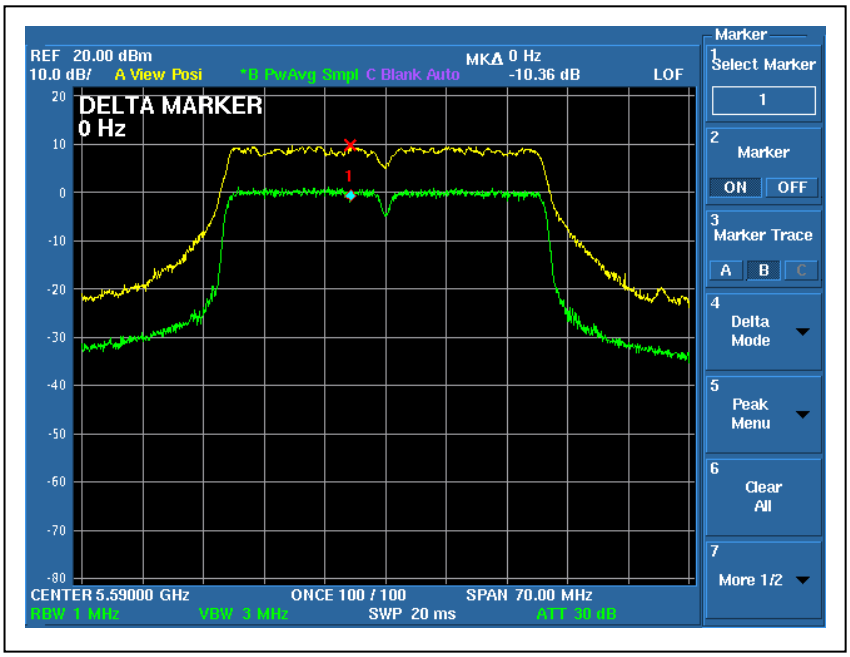
CH4


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.19 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.31000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

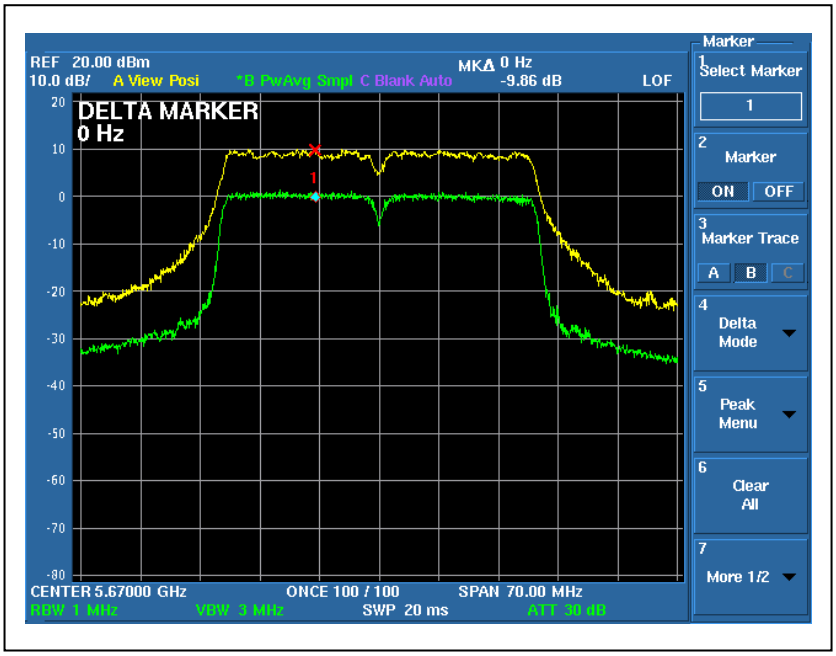
CH5


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.64 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.51000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
Select Marker
Marker
ON OFF
Marker Trace
A B C
Delta Mode
Peak Menu
Clear All
More 1/2

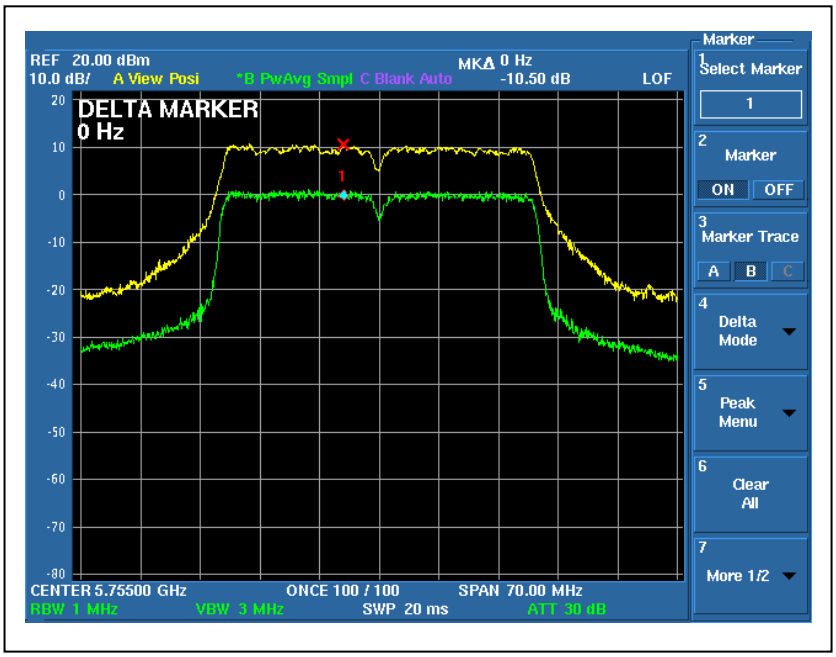
CH7


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.36 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.59000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
Select Marker
Marker
ON OFF
Marker Trace
A B C
Delta Mode
Peak Menu
Clear All
More 1/2

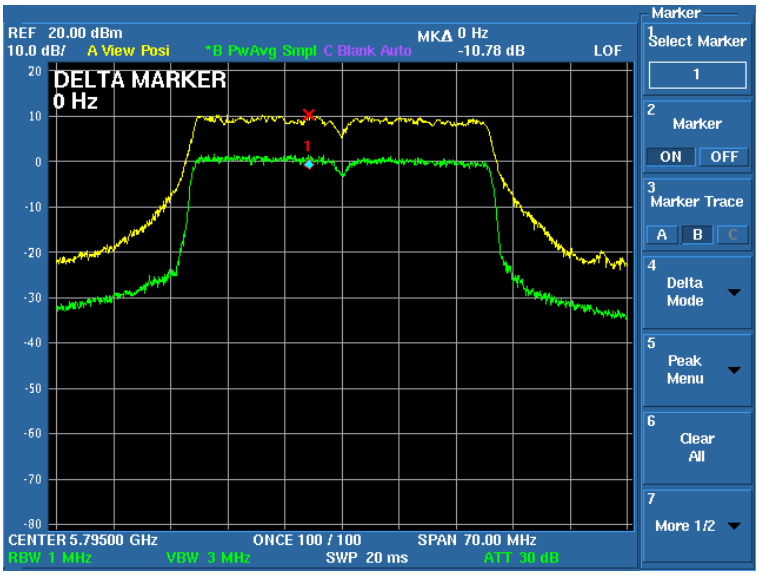
CH9


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-9.86 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.67000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

CH10


REF 20.00 dBm
10.0 dB/ A View Posi
*B PwAvg Smpl C Blank Auto
MKΔ 0 Hz
-10.50 dB
LOF
DELTA MARKER
0 Hz
CENTER 5.75500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

CH11


REF 20.00 dBm
10.0 dB/ A View Posi
MKΔ 0 Hz
-10.78 dB
LOF
*B PwAvg 3mpl C Blank Auto
DELTA MARKER
0 Hz
CENTER 5.79500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Marker
1 Select Marker
1
2 Marker
ON OFF
3 Marker Trace
A B C
4 Delta Mode
5 Peak Menu
6 Clear All
7 More 1/2

4.5 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.5.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

Frequency Band	Limit
5.15 ~ 5.25GHz	4dBm
5.25 ~ 5.35GHz	11dBm
5.47 – 5.725GHz	11dBm
5.725 ~ 5.825GHz	17dBm

4.5.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
ADVANTEST SPECTRUM ANALYZER	U3772	160100280	July 26, 2008	July 25, 2009

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81.
2. 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 PROCEDURES

1. The transmitter output was connected to the spectrum analyzer.
2. Set RBW=1MHz, VBW=3MHz. The PPSD is the highest level found across the emission in any 1MHz band.

4.5.4 DEVIATION FROM TEST STANDARD

No deviation

4.5.5 TEST SETUP

4.5.6 EUT OPERATING CONDITIONS

Same as 4.3.6

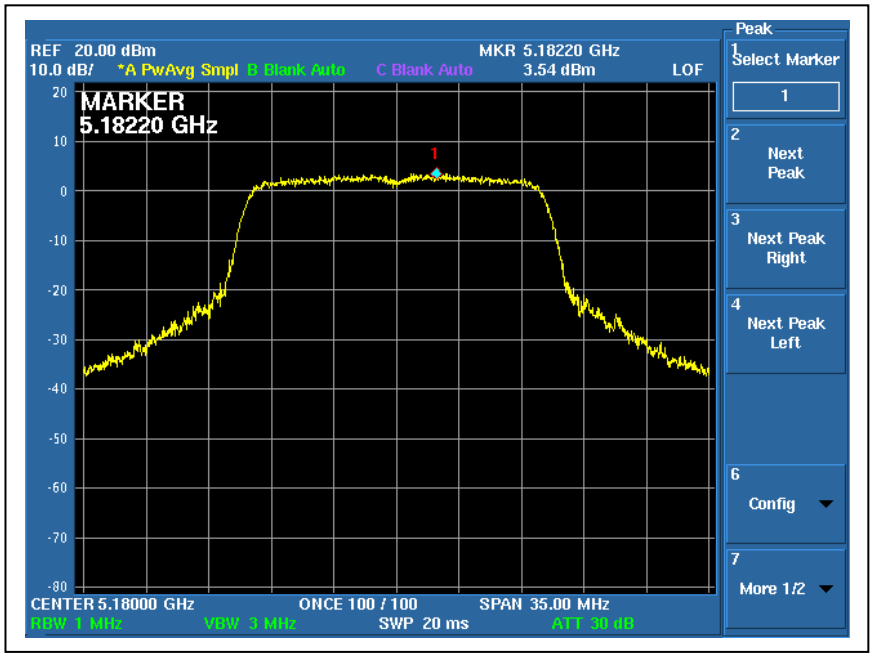
4.5.7 TEST RESULTS

802.11a OFDM modulation

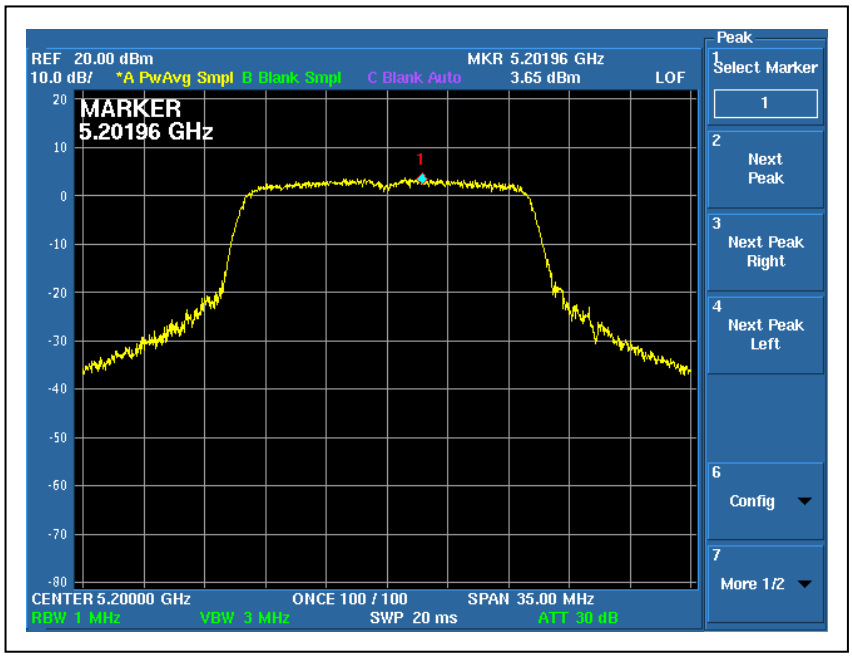
MODULATION TYPE	BPSK	TRANSFER RATE	6Mbps
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
1	5180	3.54	4	PASS
2	5200	3.65	4	PASS
4	5240	3.97	4	PASS
5	5260	5.53	11	PASS
7	5300	4.91	11	PASS
8	5320	5.31	11	PASS
9	5500	5.13	11	PASS
14	5600	5.34	11	PASS
19	5700	5.7	11	PASS
20	5745	5.13	17	PASS
22	5785	5.22	17	PASS
23	5805	5.51	17	PASS

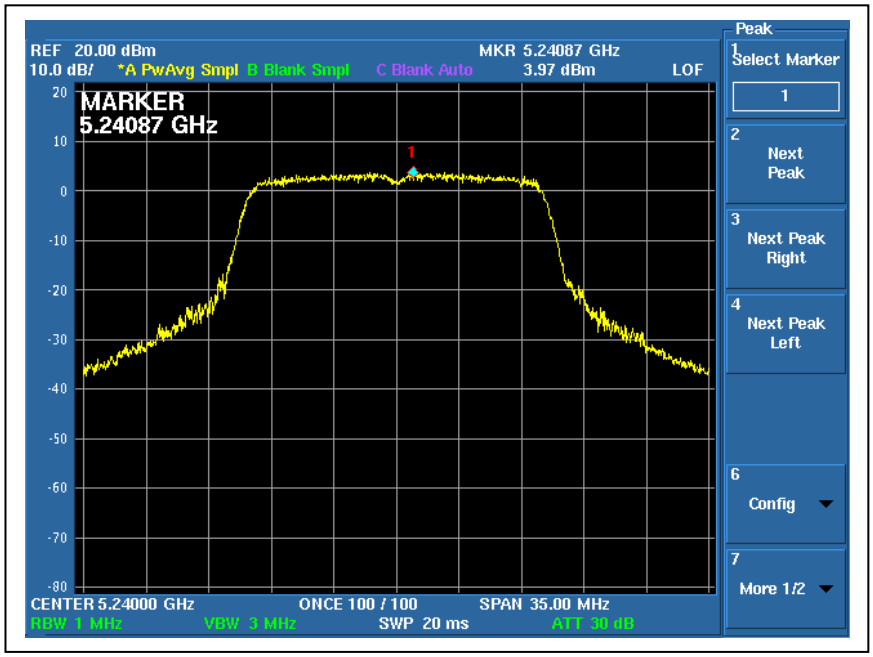
CH1


REF 20.00 dBm
MKR 5.18220 GHz
10.0 dB/ *A PwAvg Smpl B Blank Auto C Blank Auto 3.54 dBm LOF
MARKER
5.18220 GHz
CENTER 5.18000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

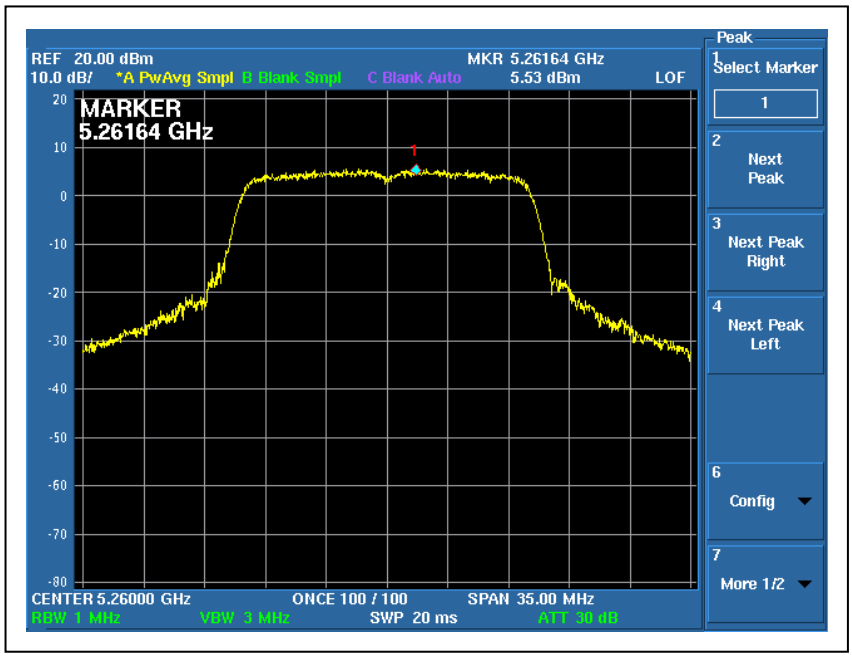
CH2


REF 20.00 dBm
MKR 5.20196 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.65 dBm LOF
MARKER
5.20196 GHz
CENTER 5.20000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

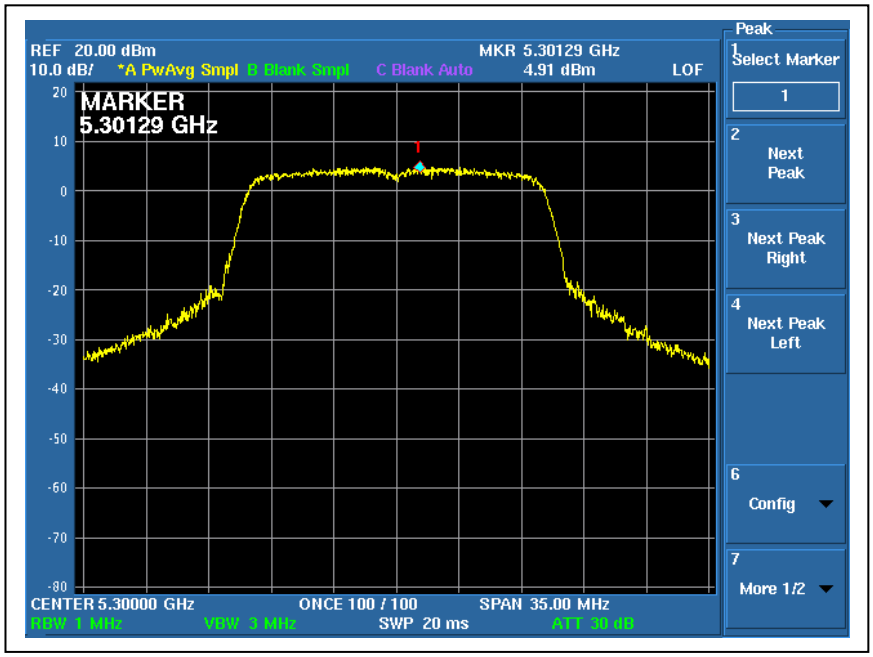
CH4


REF 20.00 dBm
MKR 5.24087 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.97 dBm LOF
MARKER
5.24087 GHz
CENTER 5.24000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

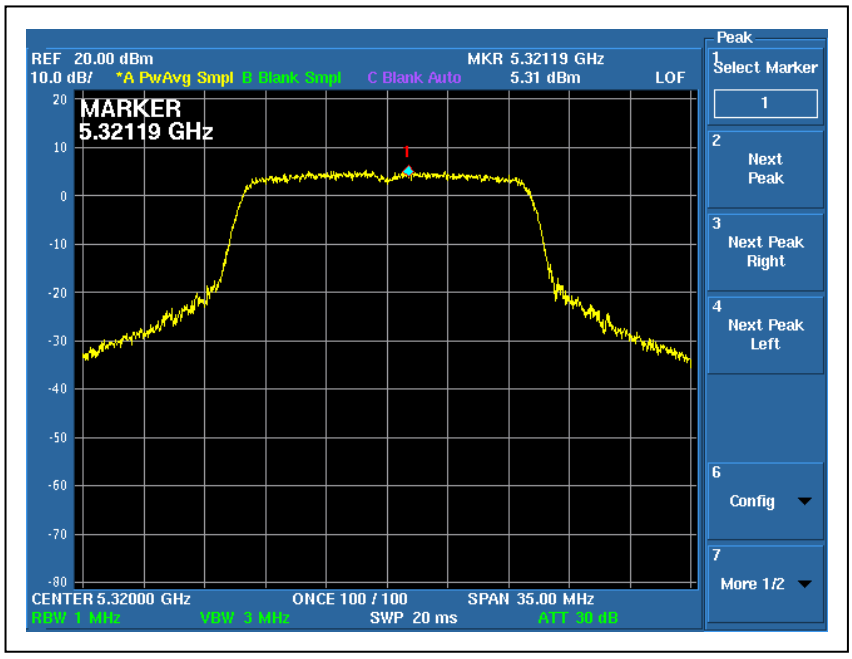
CH5


REF 20.00 dBm
MKR 5.26164 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.53 dBm LOF
MARKER
5.26164 GHz
CENTER 5.26000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

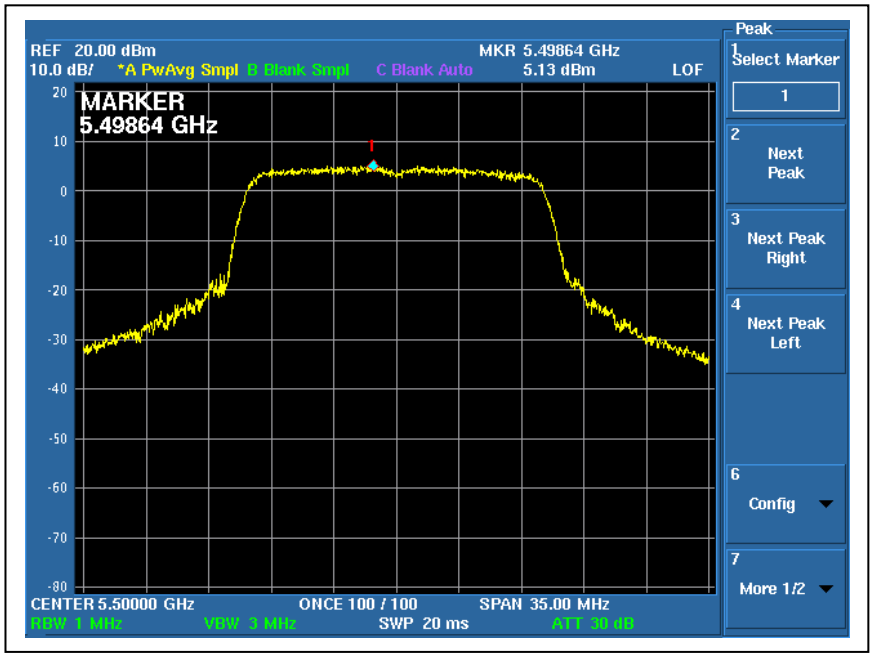
CH7


REF 20.00 dBm
MKR 5.30129 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.91 dBm LOF
MARKER
5.30129 GHz
CENTER 5.30000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

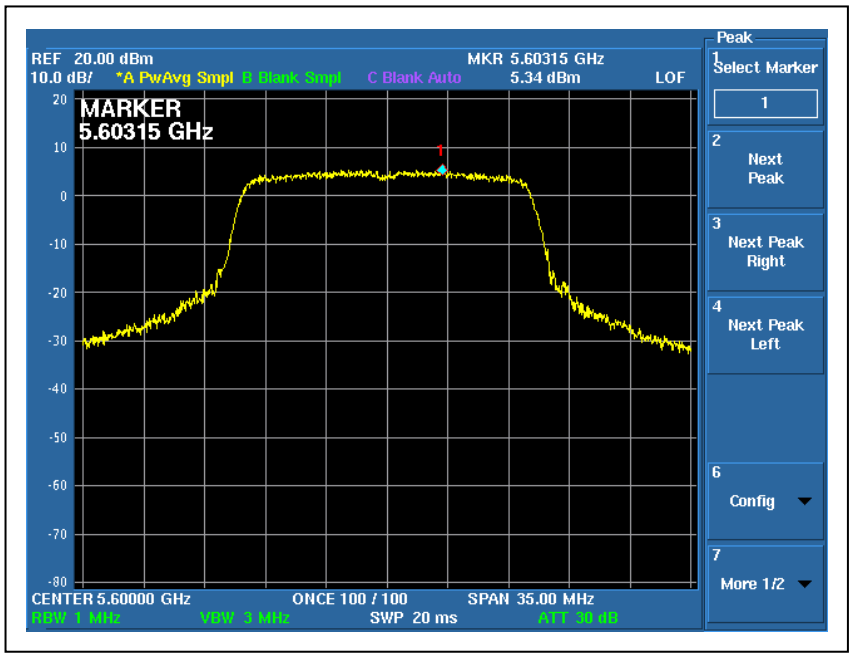
CH8


REF 20.00 dBm
MKR 5.32119 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.31 dBm LOF
MARKER
5.32119 GHz
CENTER 5.32000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

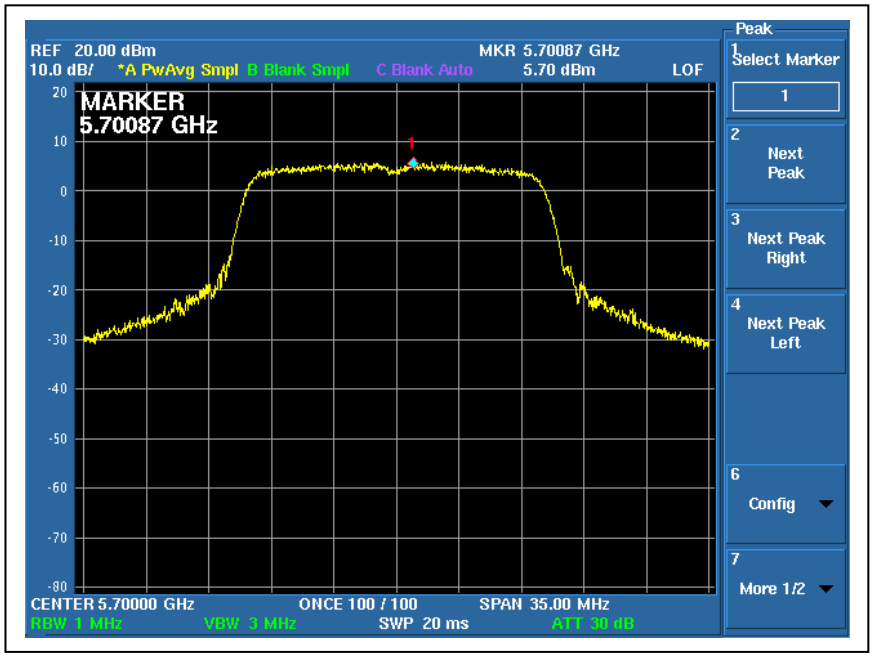
CH9


REF 20.00 dBm
MKR 5.49864 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.13 dBm LOF
MARKER
5.49864 GHz
CENTER 5.50000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

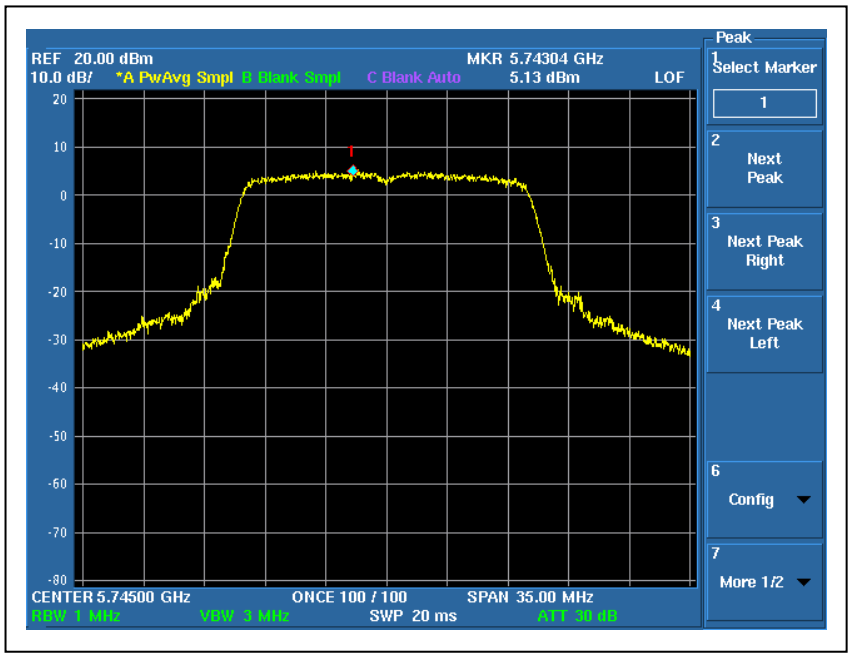
CH14


REF 20.00 dBm
MKR 5.60315 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.34 dBm LOF
MARKER
5.60315 GHz
CENTER 5.60000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

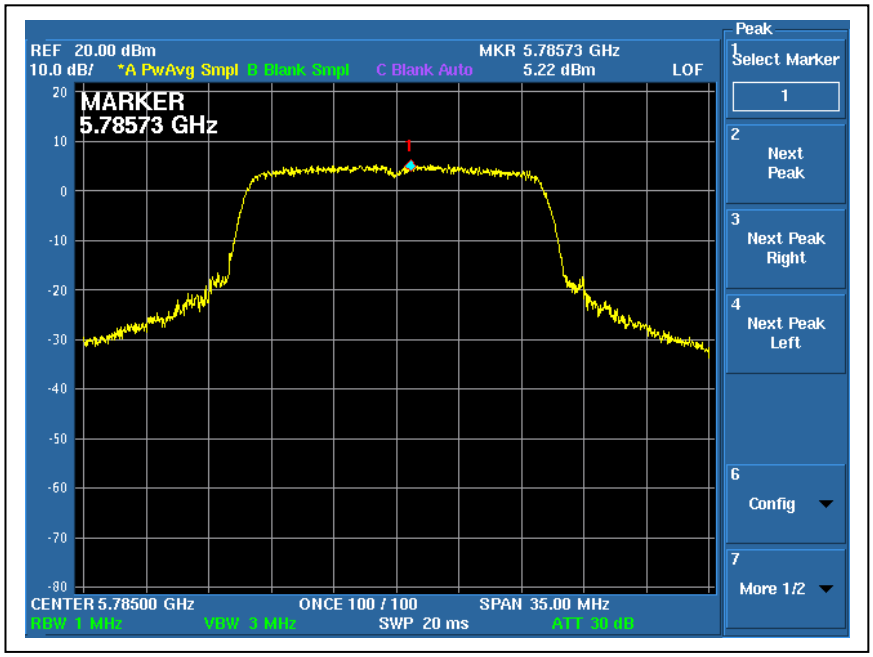
CH19


REF 20.00 dBm
MKR 5.70087 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.70 dBm LOF
MARKER
5.70087 GHz
CENTER 5.70000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

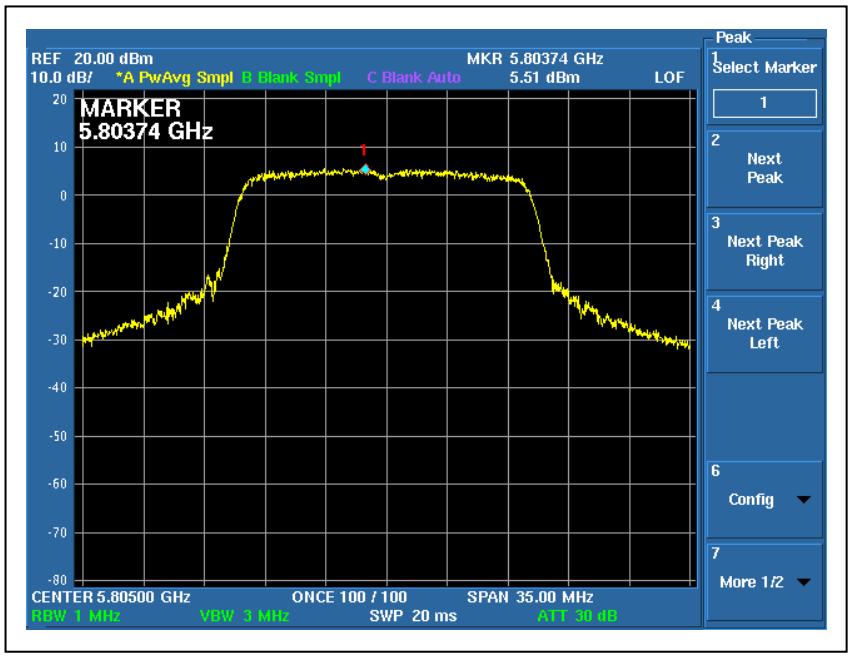
CH20


REF 20.00 dBm
MKR 5.74304 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.13 dBm LOF
CENTER 5.74500 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

CH22


REF 20.00 dBm
MKR 5.78573 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.22 dBm LOF
MARKER
5.78573 GHz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

CH23

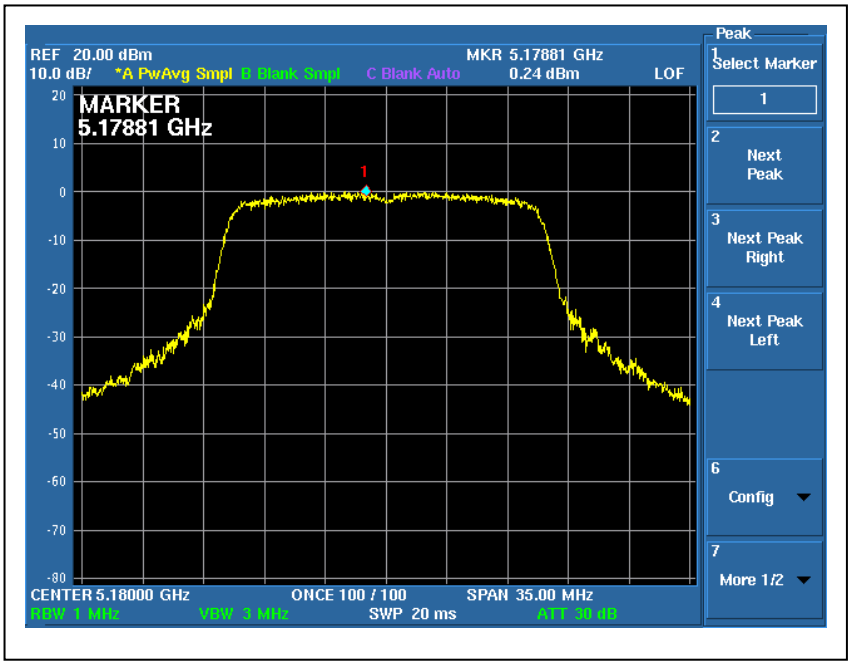

REF 20.00 dBm
MKR 5.80374 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.51 dBm LOF
MARKER
5.80374 GHz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

DRAFT 802.11n (20MHz) OFDM MODULATION:

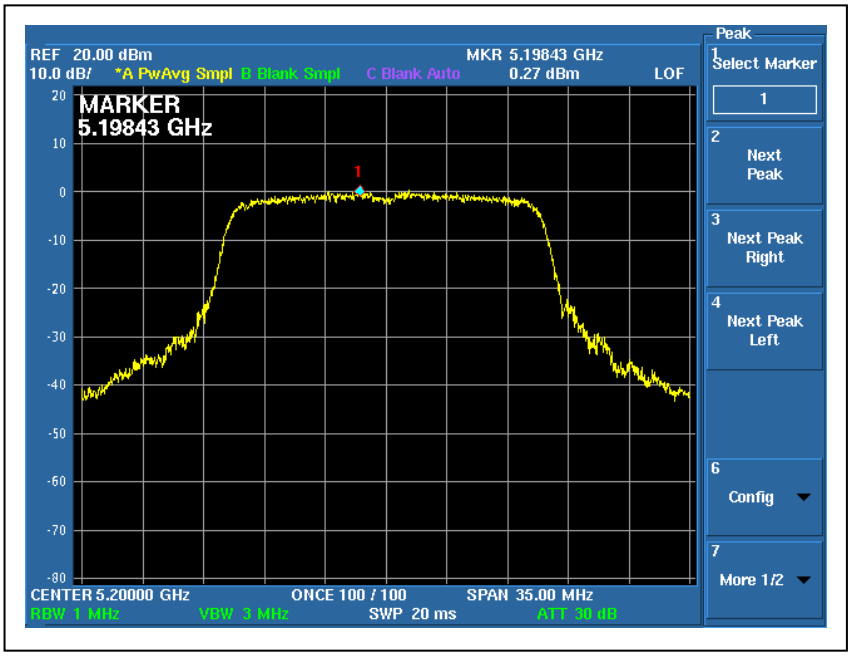
MODULATION TYPE	BPSK	**TRANSFER RATE**	13Mbps
INPUT POWER	120Vac, 60 Hz	**ENVIRONMENTAL CONDITIONS**	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)		TOTAL OUTPUT POWER DENSITY (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
		Chain (0)	Chain(1)			
1	5180	0.24	1.28	3.80	4	PASS
2	5200	0.27	1.50	3.94	4	PASS
4	5240	-0.44	1.38	3.58	4	PASS
5	5260	3.96	5.11	7.58	11	PASS
7	5300	4.02	5.29	7.71	11	PASS
8	5320	3.74	5.07	7.47	11	PASS
9	5500	5.31	4.29	7.84	11	PASS
14	5600	5.08	3.89	7.54	11	PASS
19	5700	3.16	2.97	6.08	11	PASS
20	5745	4.44	4.25	7.36	17	PASS
22	5785	4.51	3.79	7.18	17	PASS
23	5805	4.62	3.61	7.15	17	PASS

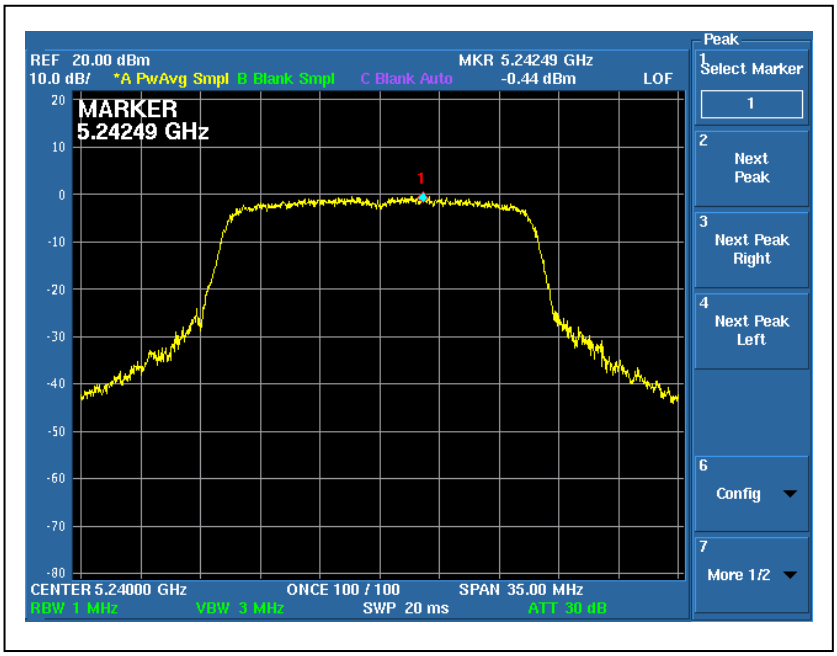
For Chain (0) : CH1



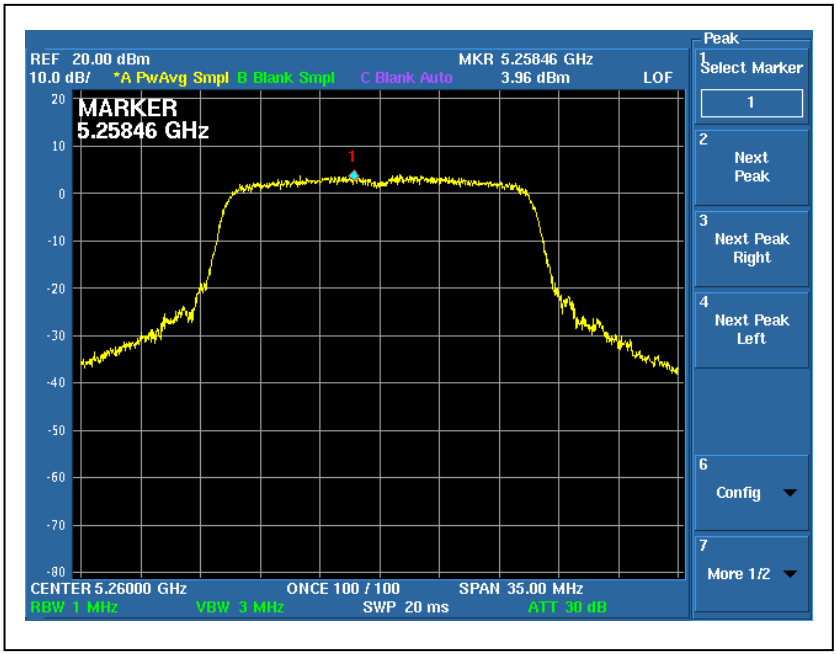
CH2



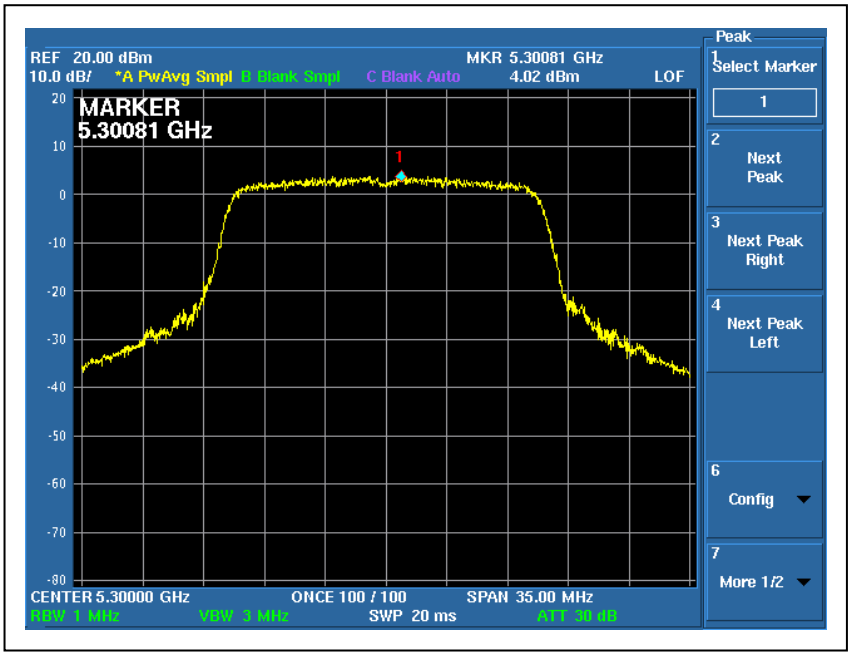
CH4


REF 20.00 dBm
MKR 5.24249 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto -0.44 dBm LOF
MARKER
5.24249 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.24000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

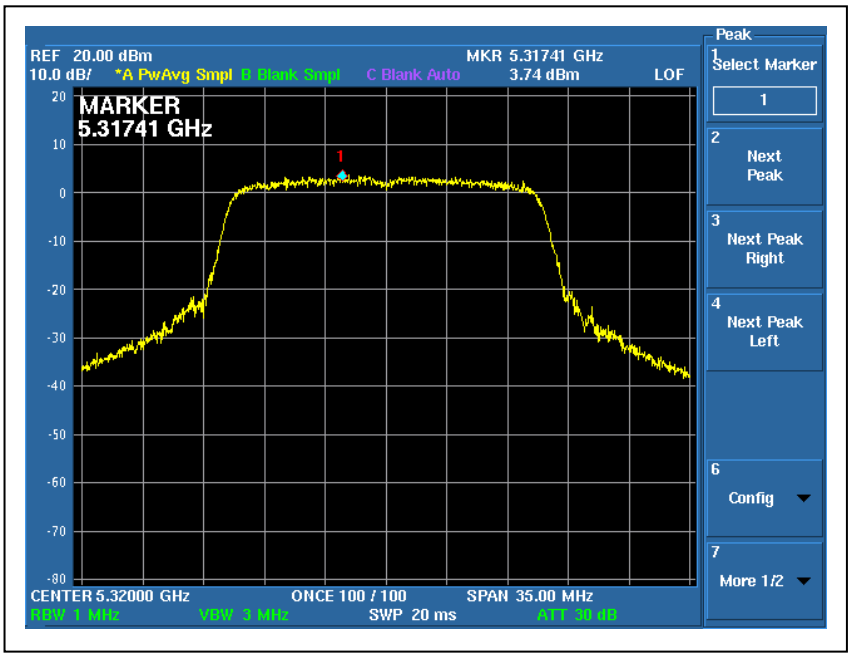
CH5


REF 20.00 dBm
MKR 5.25846 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.96 dBm LOF
MARKER
5.25846 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.26000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

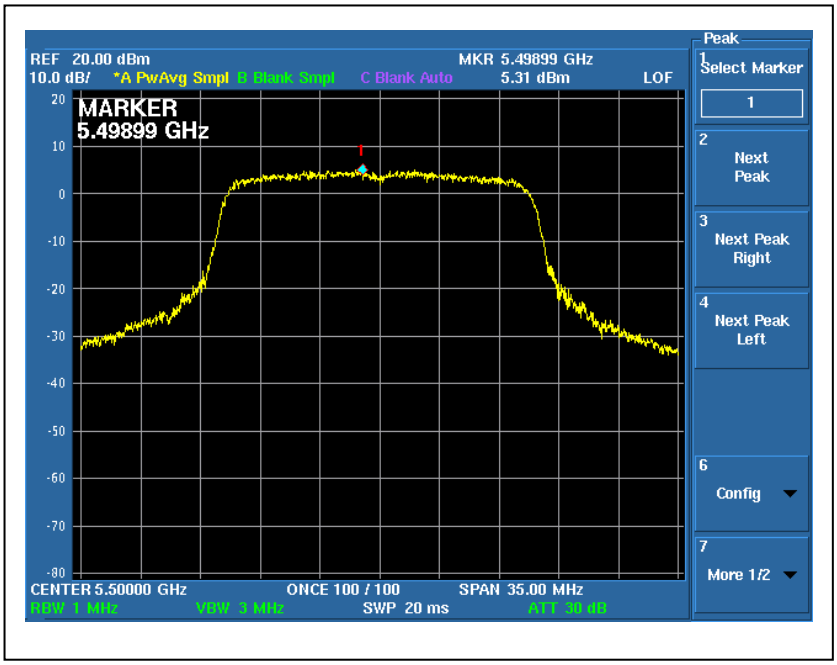
CH7


REF 20.00 dBm
MKR 5.30081 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.02 dBm LOF
MARKER
5.30081 GHz
CENTER 5.30000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

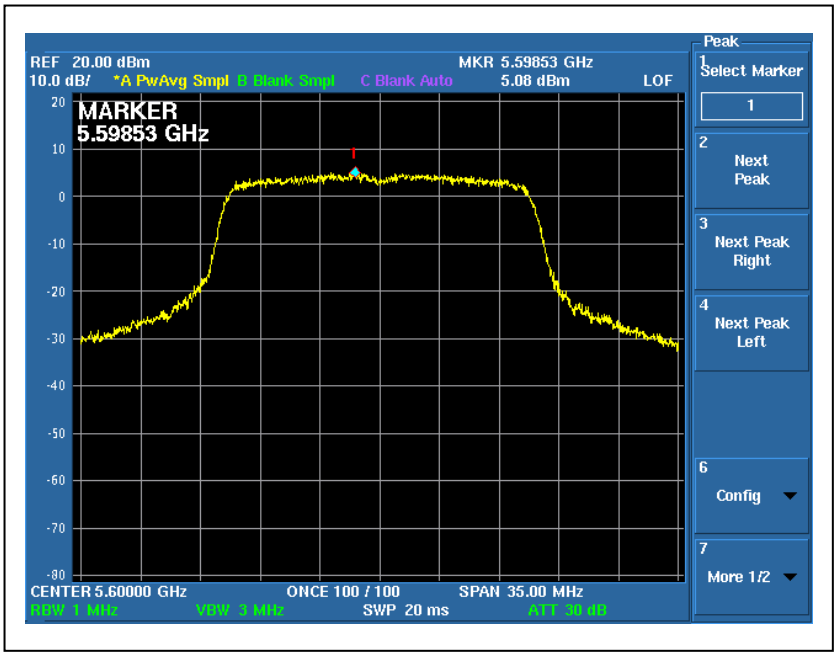
CH8


REF 20.00 dBm
MKR 5.31741 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.74 dBm LOF
MARKER
5.31741 GHz
CENTER 5.32000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

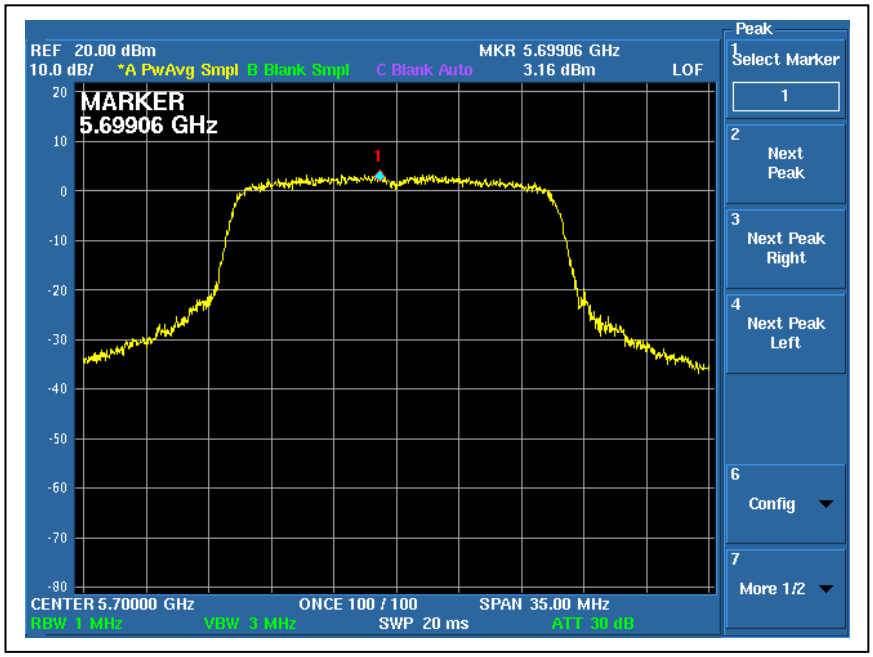
CH9


REF 20.00 dBm
MKR 5.49899 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.31 dBm LOF
MARKER
5.49899 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.50000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

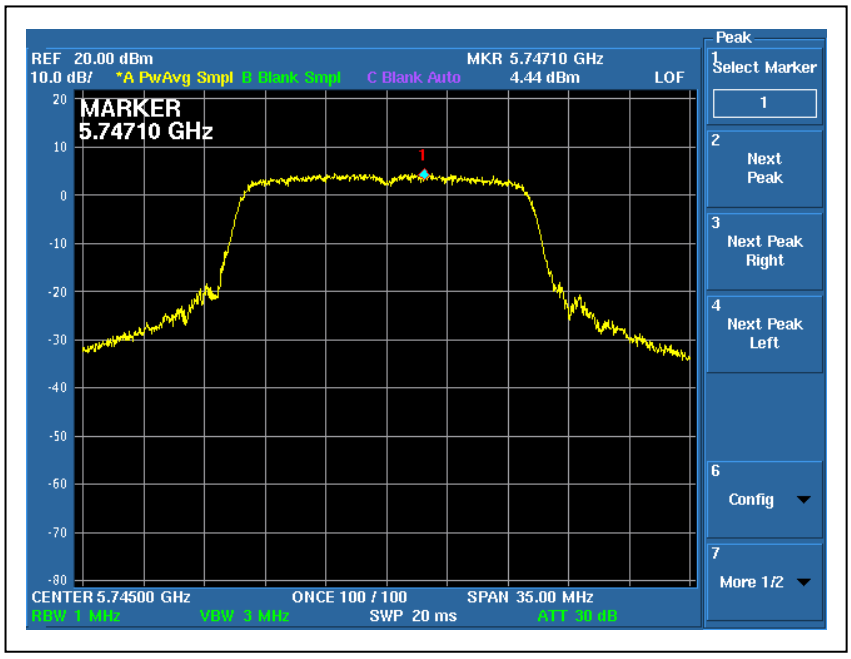
CH14


REF 20.00 dBm
MKR 5.59853 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.08 dBm LOF
MARKER
5.59853 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.60000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

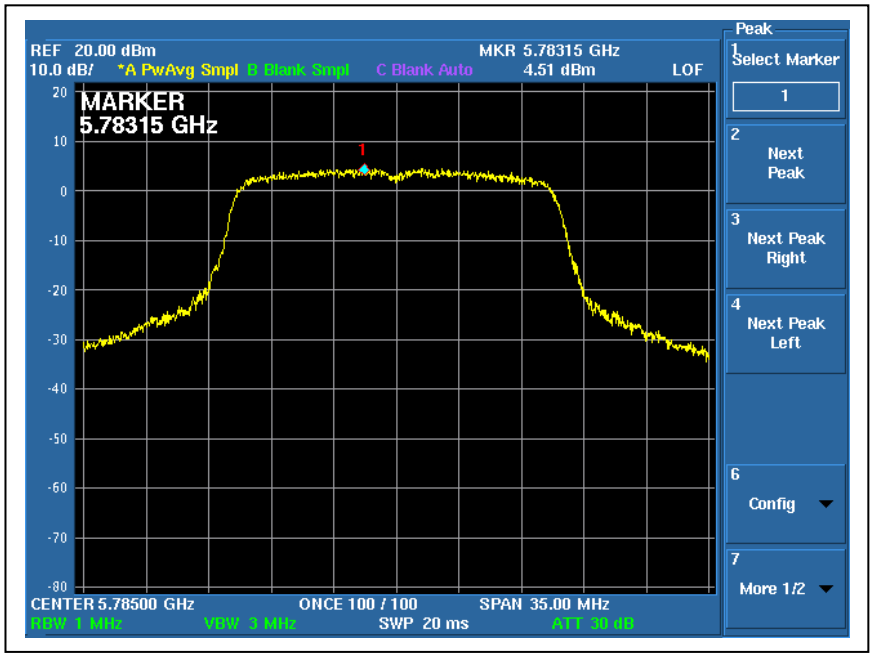
CH19


REF 20.00 dBm
MKR 5.69906 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.16 dBm LOF
MARKER
5.69906 GHz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

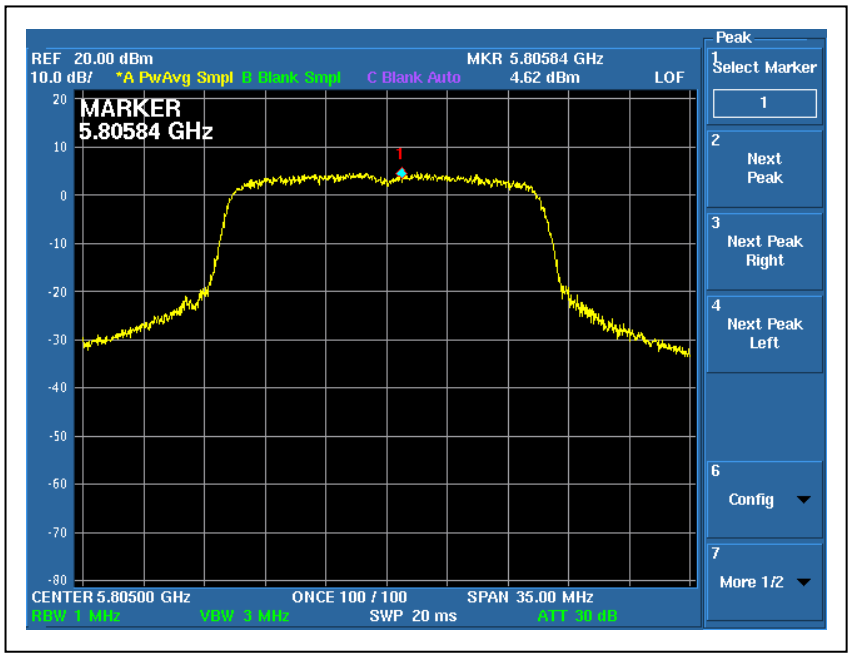
CH20


REF 20.00 dBm
MKR 5.74710 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.44 dBm LOF
MARKER
5.74710 GHz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

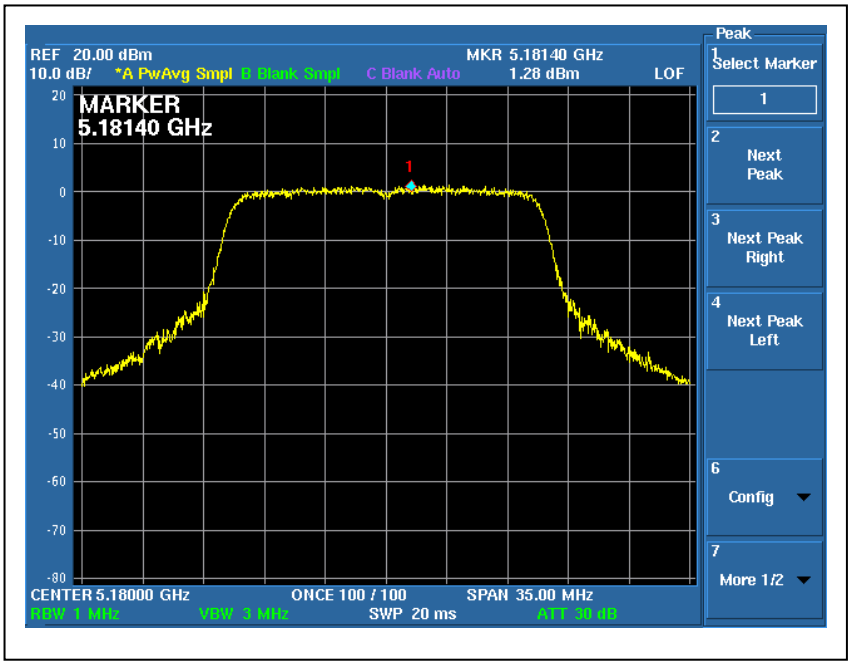
CH22


REF 20.00 dBm
MKR 5.78315 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.51 dBm LOF
MARKER
5.78315 GHz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

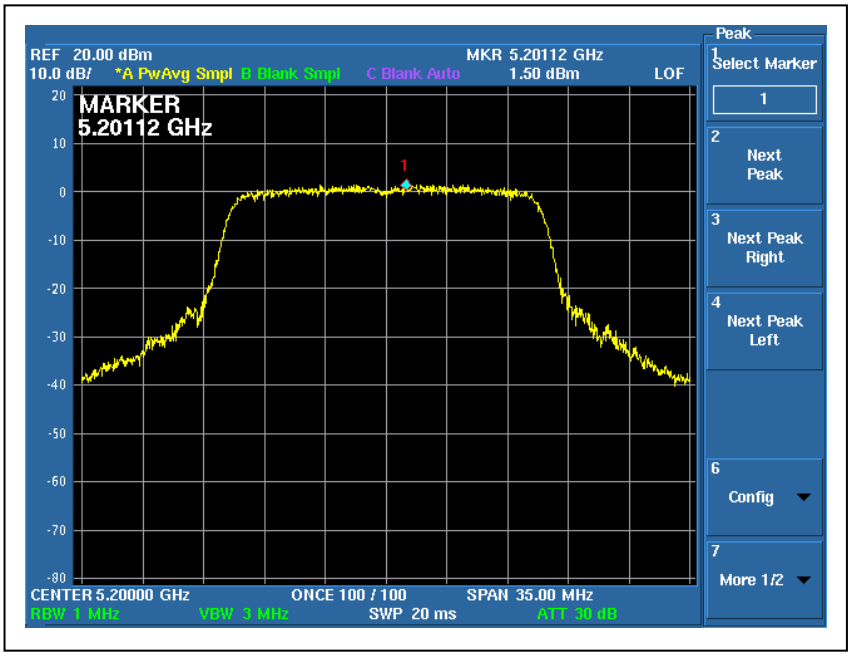
CH23


REF 20.00 dBm
MKR 5.80584 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.62 dBm LOF
MARKER
5.80584 GHz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

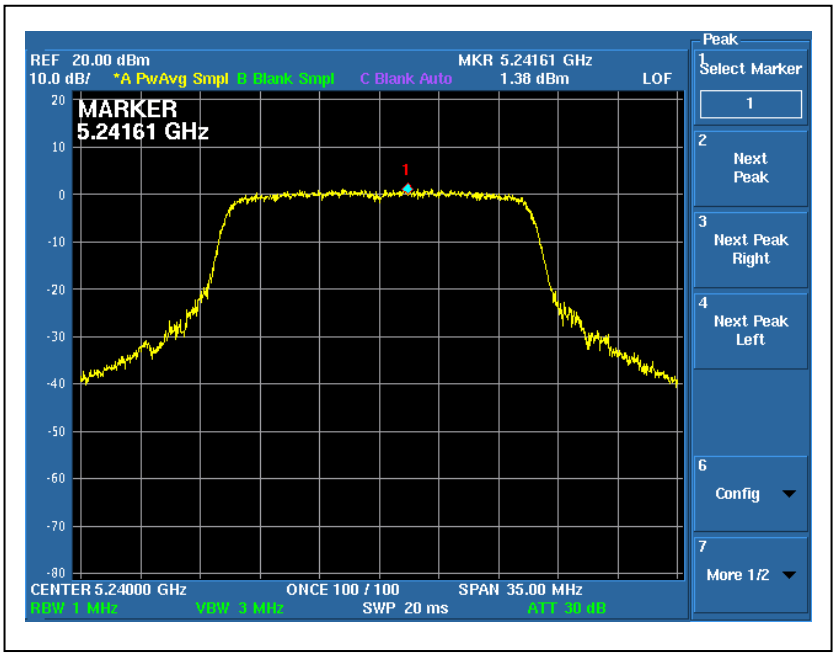
For Chain (1) : CH1



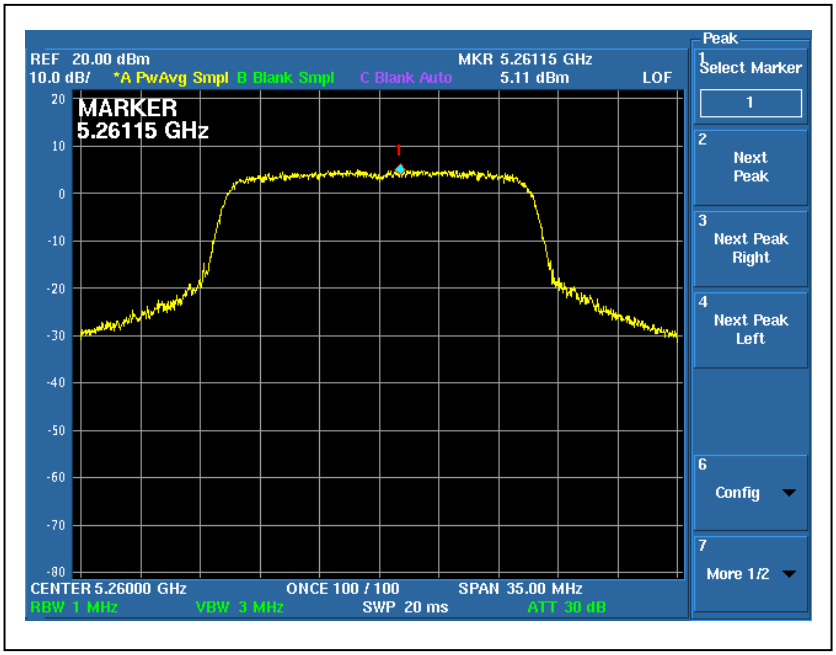
CH2



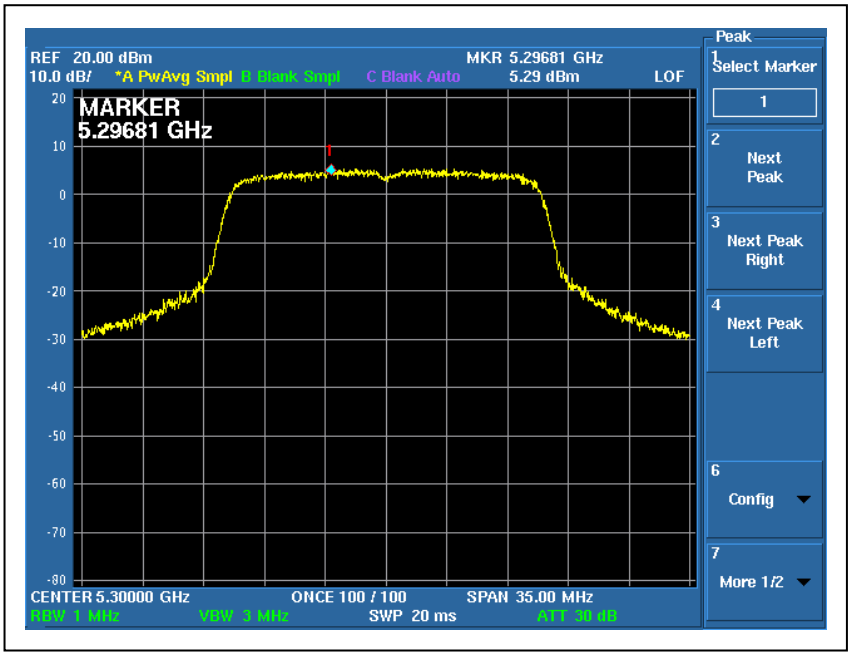
CH4


REF 20.00 dBm
MKR 5.24161 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 1.38 dBm LOF
MARKER
5.24161 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.24000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

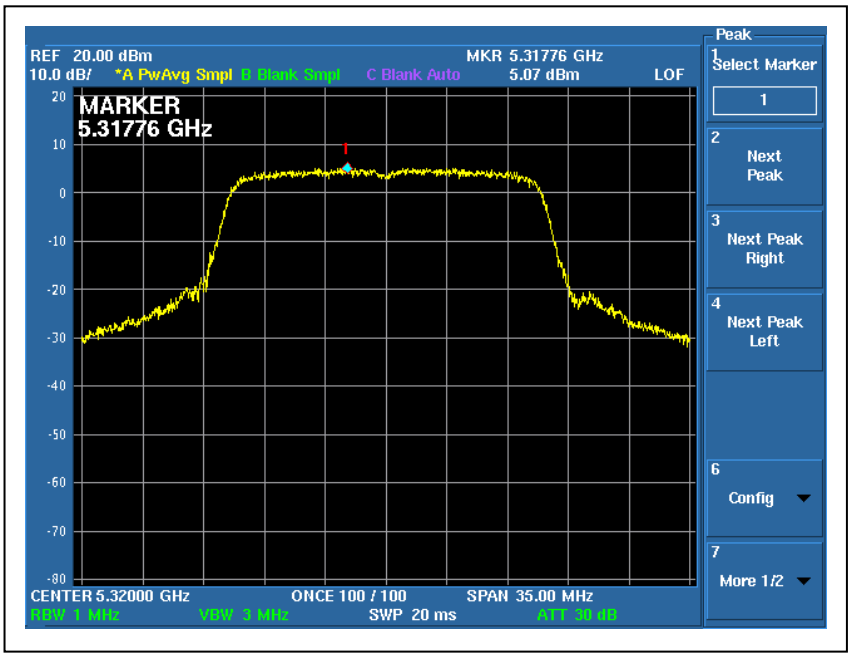
CH5


REF 20.00 dBm
MKR 5.26115 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.11 dBm LOF
MARKER
5.26115 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.26000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

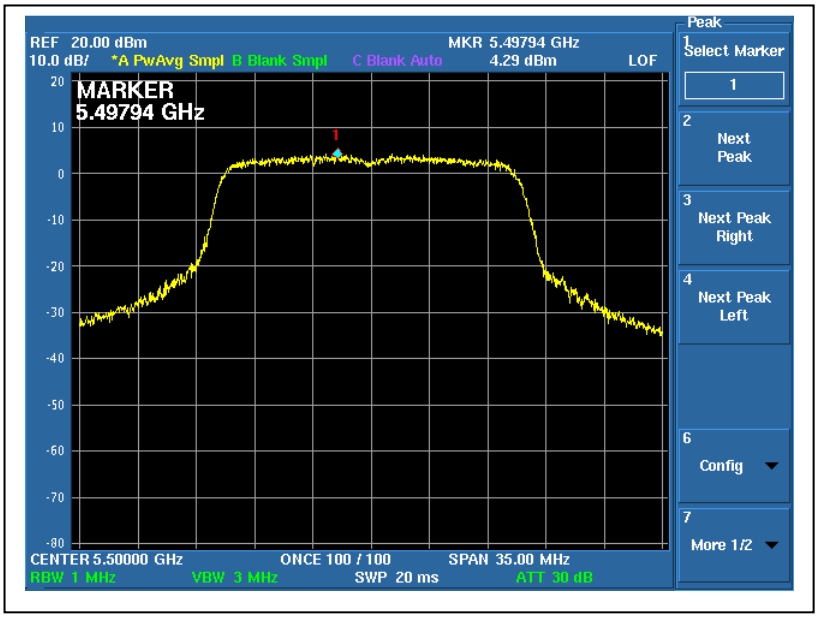
CH7


REF 20.00 dBm
MKR 5.29681 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.29 dBm LOF
MARKER
5.29681 GHz
CENTER 5.30000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

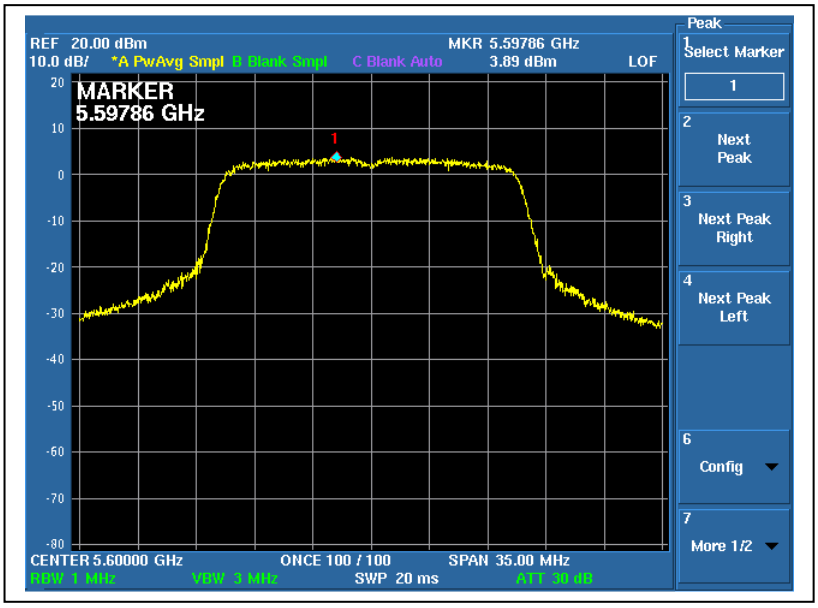
CH8


REF 20.00 dBm
MKR 5.31776 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 5.07 dBm LOF
MARKER
5.31776 GHz
CENTER 5.32000 GHz ONCE 100 / 100 SPAN 35.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

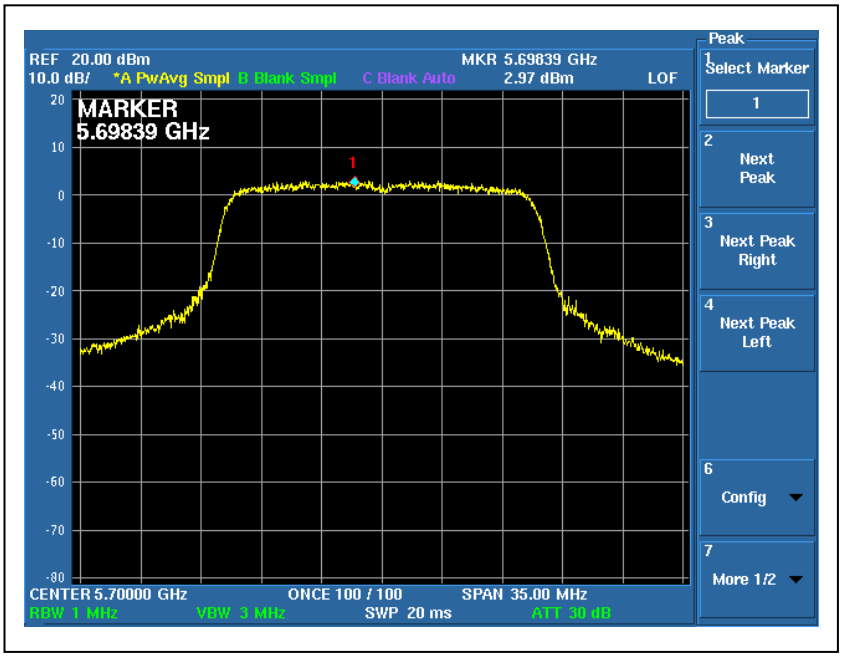
CH9


REF 20.00 dBm
MKR 5.49794 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.29 dBm LOF
MARKER
5.49794 GHz
CENTER 5.50000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

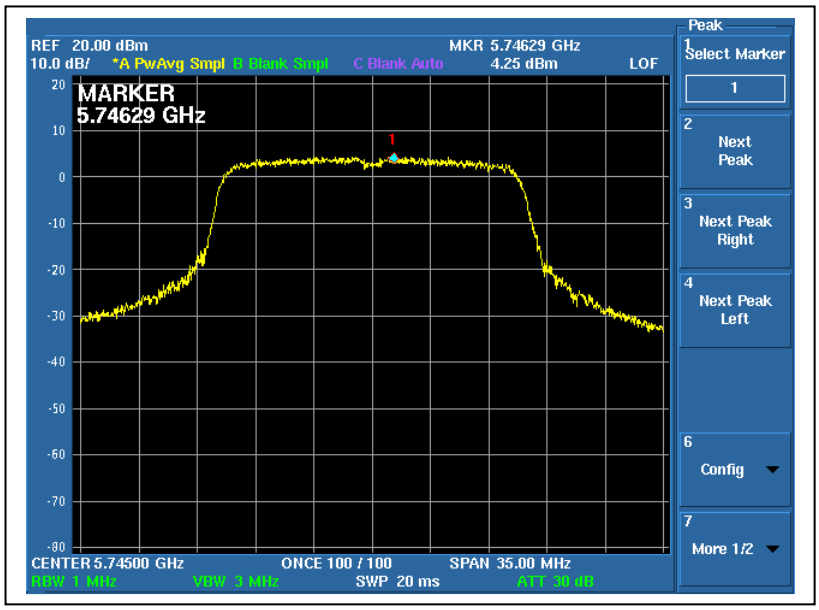
CH14


REF 20.00 dBm
MKR 5.59786 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.89 dBm LOF
MARKER
5.59786 GHz
CENTER 5.60000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

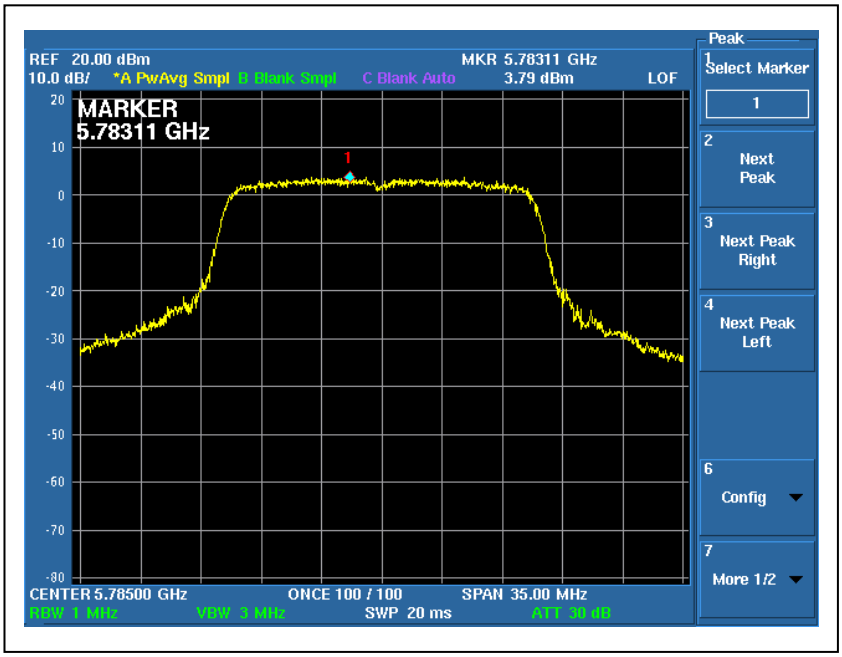
CH19


REF 20.00 dBm
MKR 5.69839 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 2.97 dBm LOF
MARKER
5.69839 GHz
CENTER 5.70000 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

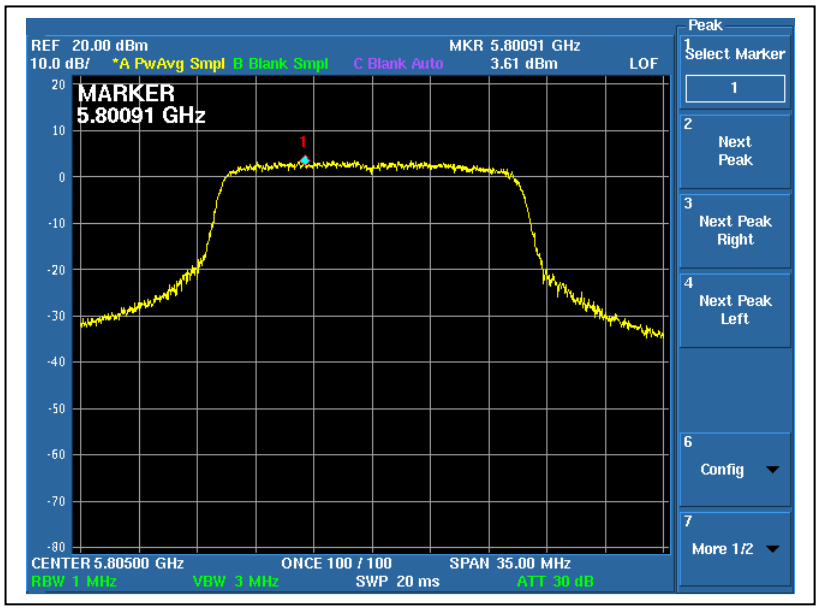
CH20


REF 20.00 dBm
MKR 5.74629 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 4.25 dBm LOF
MARKER
5.74629 GHz
CENTER 5.74500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

CH22


REF 20.00 dBm
MKR 5.78311 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.79 dBm LOF
MARKER
5.78311 GHz
CENTER 5.78500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

CH23

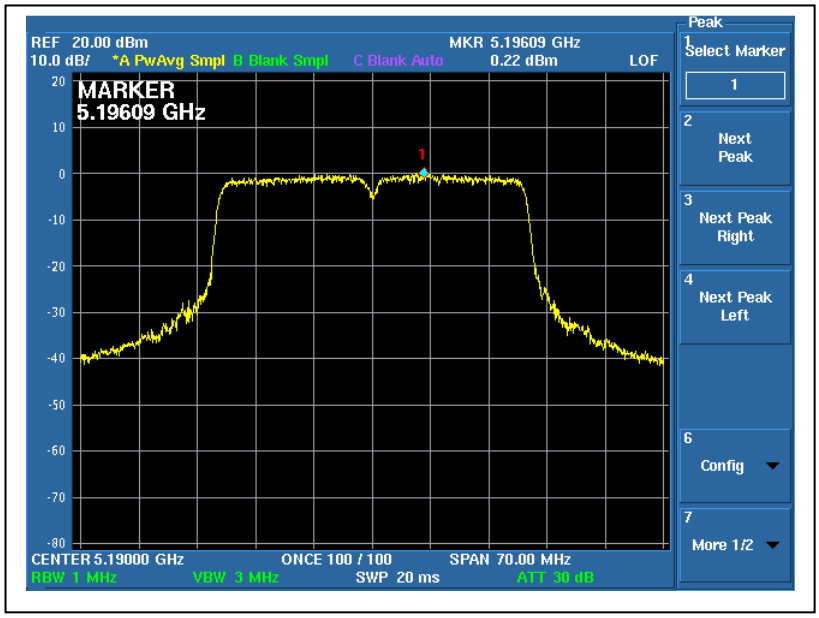

REF 20.00 dBm
MKR 5.80091 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 3.61 dBm LOF
MARKER
5.80091 GHz
CENTER 5.80500 GHz
ONCE 100 / 100
SPAN 35.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

DRAFT 802.11n (40MHz) OFDM MODULATION:

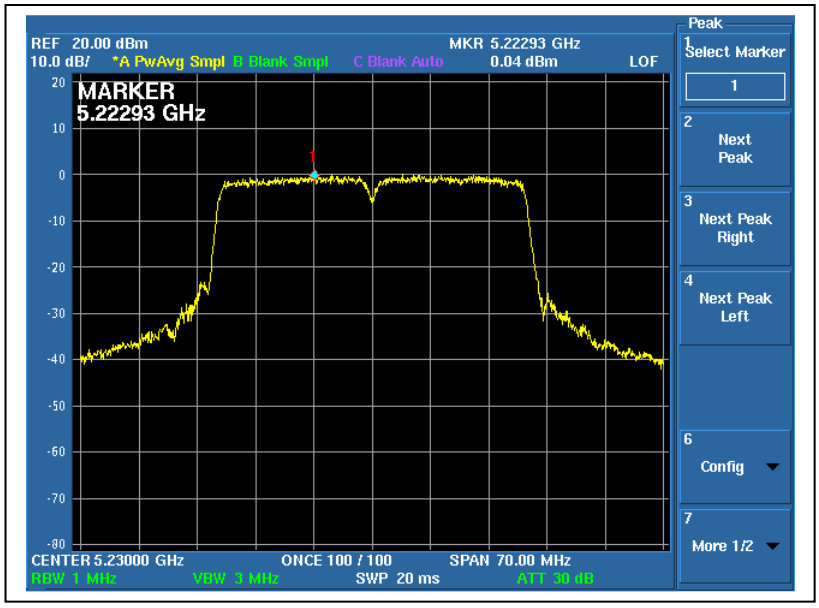
MODULATION TYPE	BPSK	TRANSFER RATE	27Mbps
INPUT POWER	120Vac, 60 Hz	ENVIRONMENTAL CONDITIONS	25deg.C, 60%RH, 965hPa
TESTED BY	Wen Yu		

CHANNEL	CHANNEL FREQUENCY (MHz)	RF POWER LEVEL IN 1MHz BW (dBm)		TOTAL OUTPUT POWER DENSITY (dBm)	MAXIMUM LIMIT (dBm)	PASS/FAIL
		Chain (0)	Chain(1)			
1	5190	0.22	1.15	3.72	4	PASS
2	5230	0.04	1.36	3.76	4	PASS
3	5270	0.24	1.53	3.94	11	PASS
4	5310	-0.22	1.81	3.92	11	PASS
5	5510	-1.36	1.38	3.23	11	PASS
7	5590	-1.24	0.97	3.01	11	PASS
9	5670	-0.42	1.05	3.39	11	PASS
10	5755	0.13	0.83	3.50	17	PASS
11	5795	0.08	1.56	3.89	17	PASS

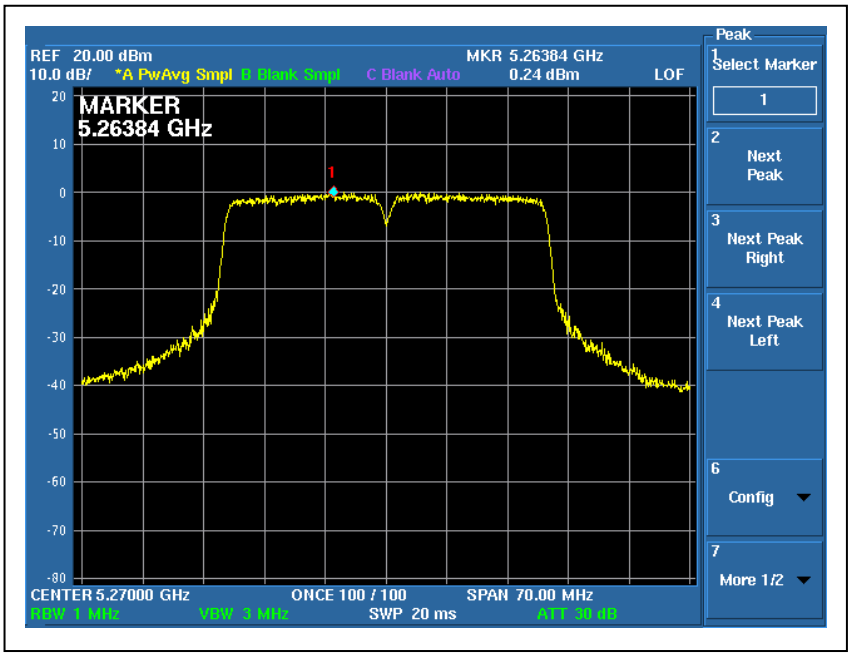
For Chain (0) : CH1



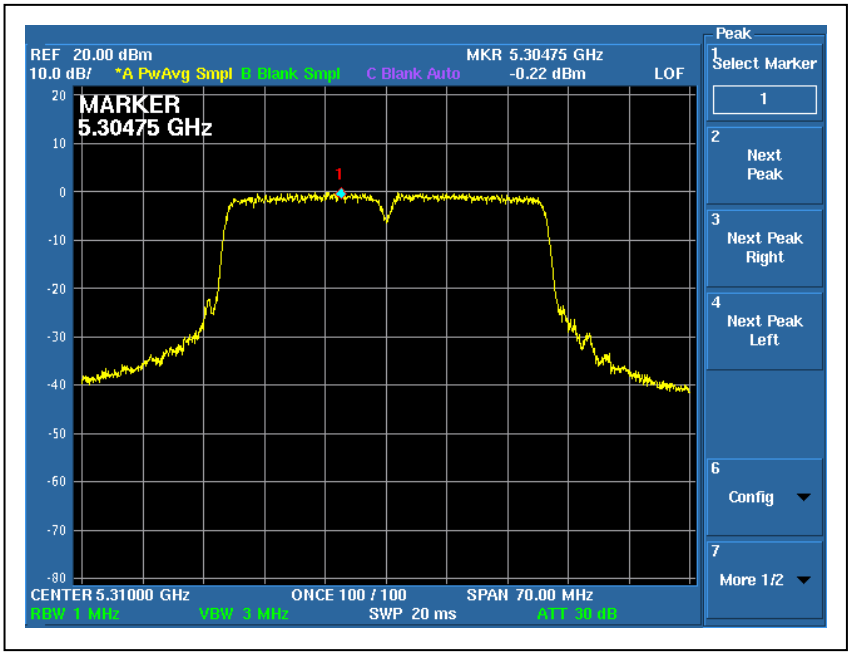
CH2



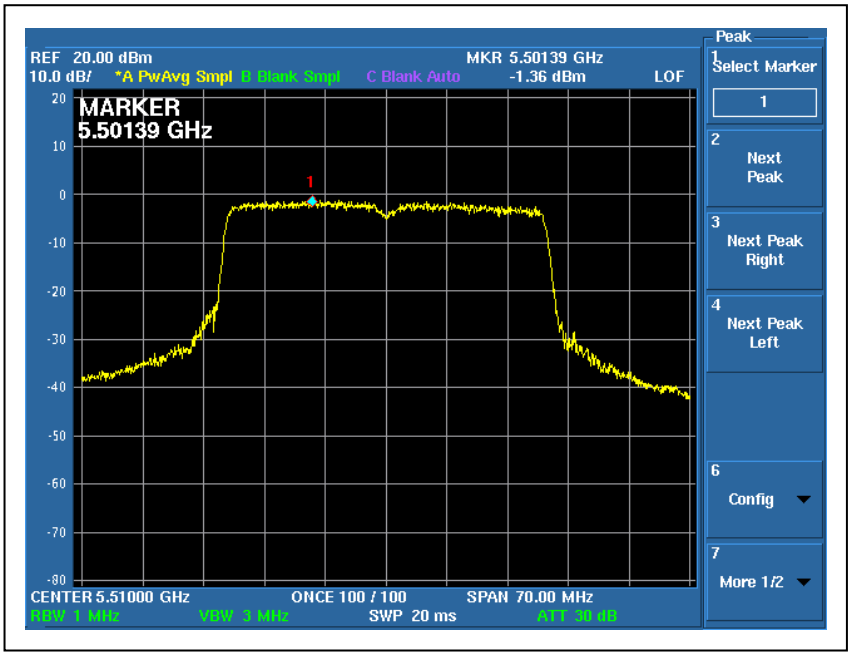
CH3


REF 20.00 dBm
MKR 5.26384 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 0.24 dBm LOF
MARKER
5.26384 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.27000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

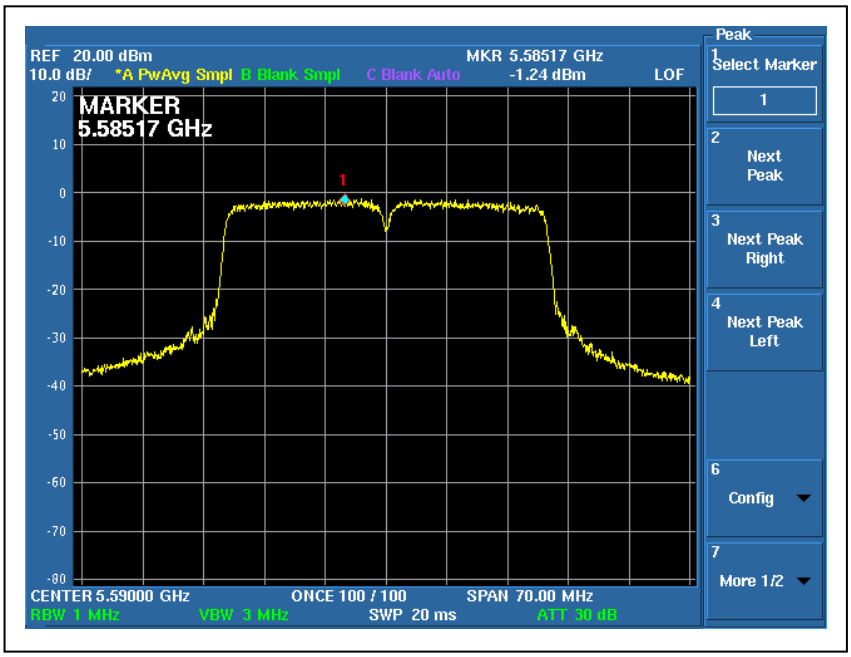
CH4


REF 20.00 dBm
MKR 5.30475 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto -0.22 dBm LOF
MARKER
5.30475 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.31000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

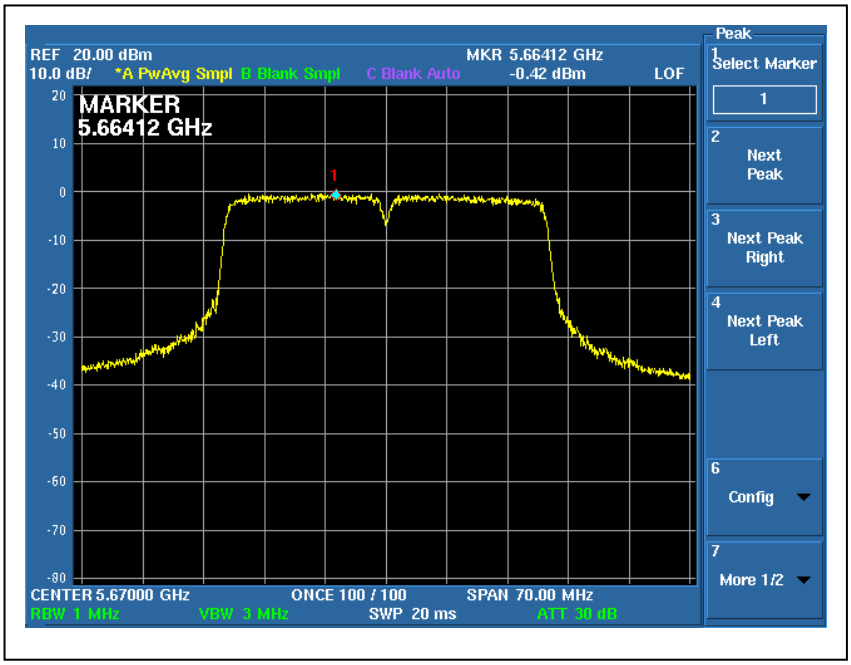
CH5


REF 20.00 dBm
MKR 5.50139 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto -1.36 dBm LOF
MARKER
5.50139 GHz
CENTER 5.51000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
Select Marker
Next Peak
Next Peak Right
Next Peak Left
Config
More 1/2

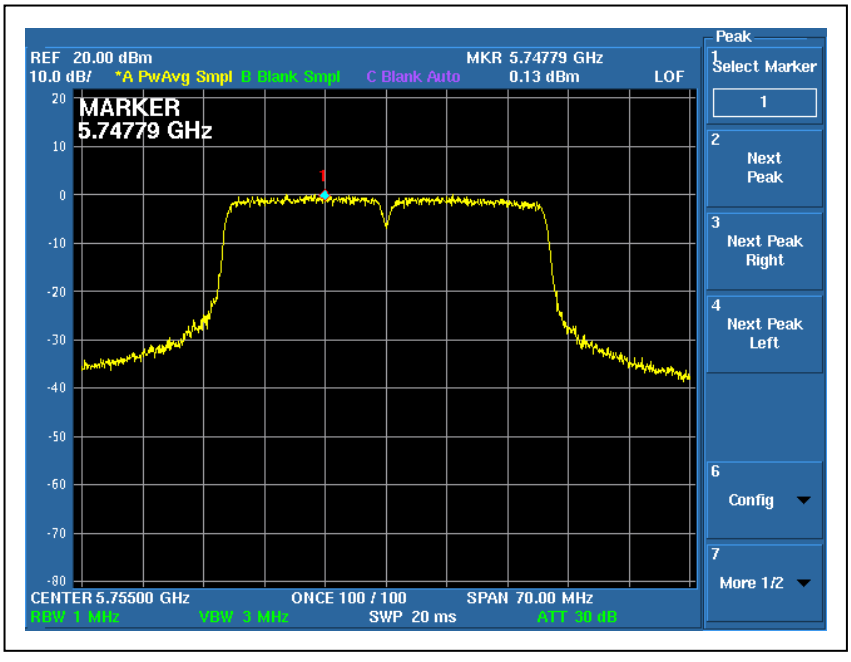
CH7


REF 20.00 dBm
MKR 5.58517 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto -1.24 dBm LOF
MARKER
5.58517 GHz
CENTER 5.59000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
Select Marker
Next Peak
Next Peak Right
Next Peak Left
Config
More 1/2

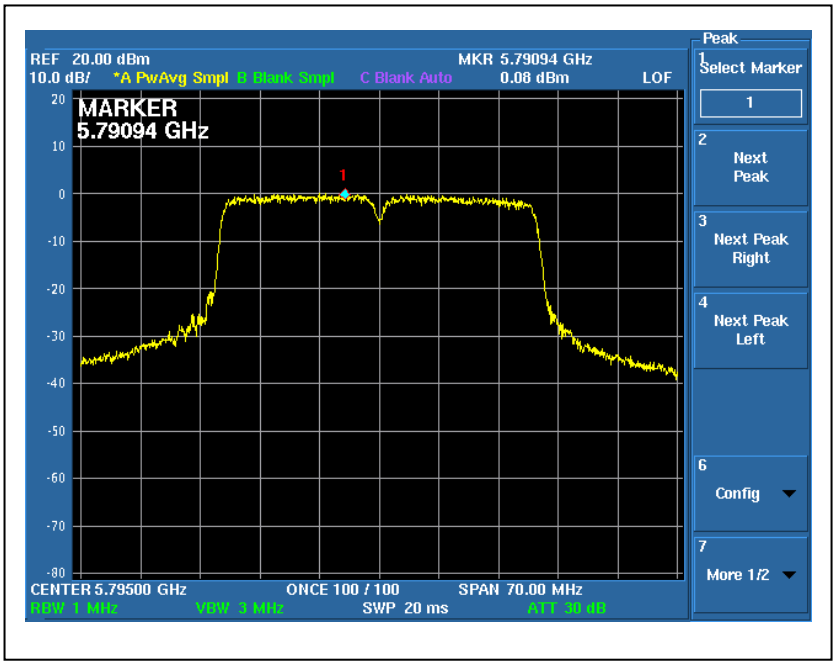
CH9


REF 20.00 dBm
MKR 5.66412 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto -0.42 dBm LOF
MARKER
5.66412 GHz
CENTER 5.67000 GHz ONCE 100 / 100 SPAN 70.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

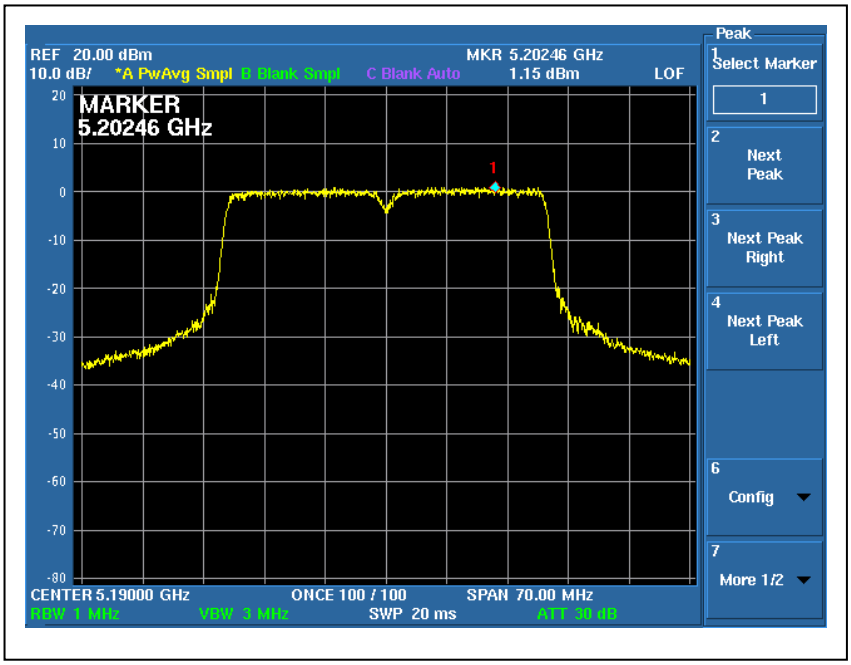
CH10


REF 20.00 dBm
MKR 5.74779 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 0.13 dBm LOF
MARKER
5.74779 GHz
CENTER 5.75500 GHz ONCE 100 / 100 SPAN 70.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

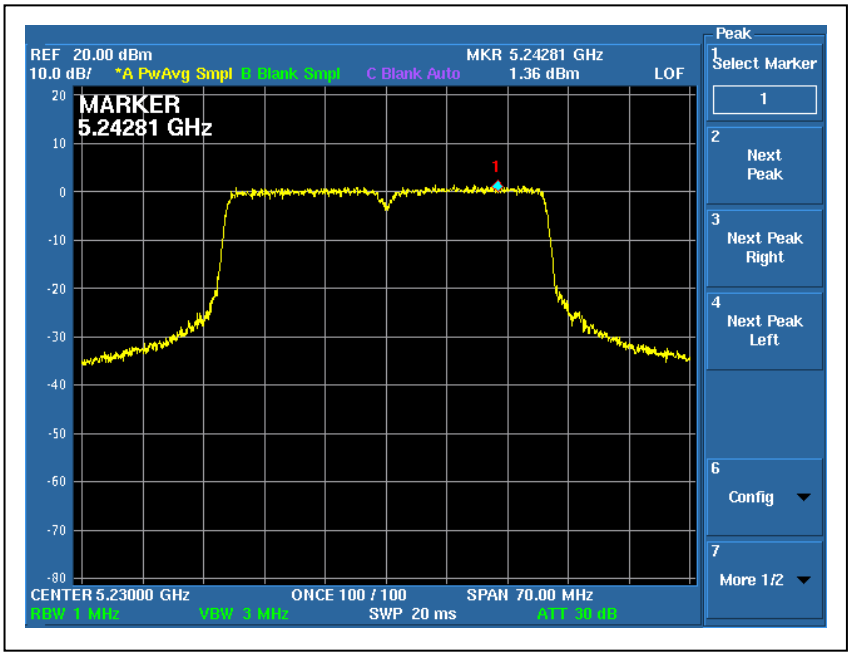
CH11


REF 20.00 dBm
MKR 5.79094 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 0.08 dBm LOF
MARKER
5.79094 GHz
CENTER 5.79500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

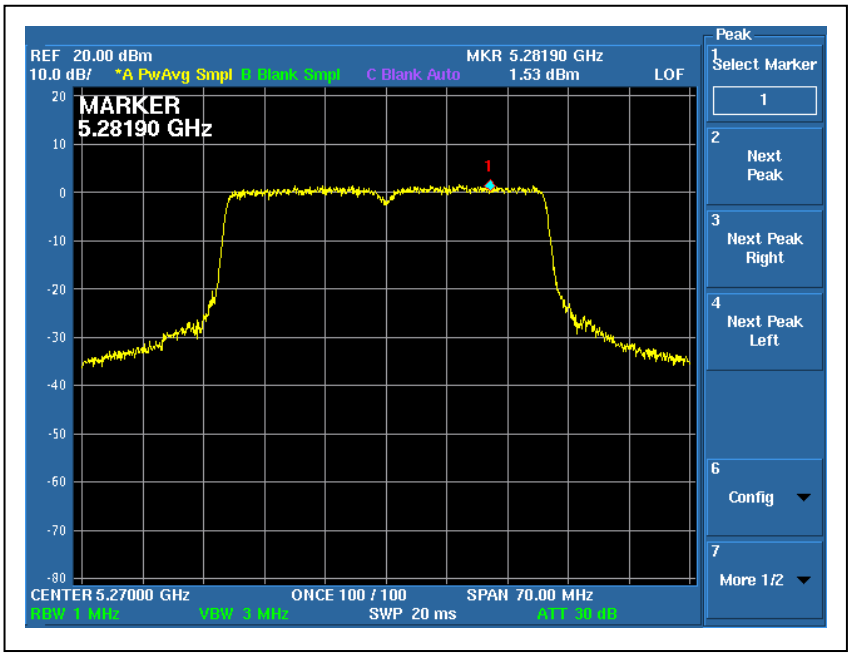
For Chain (1) : CH1



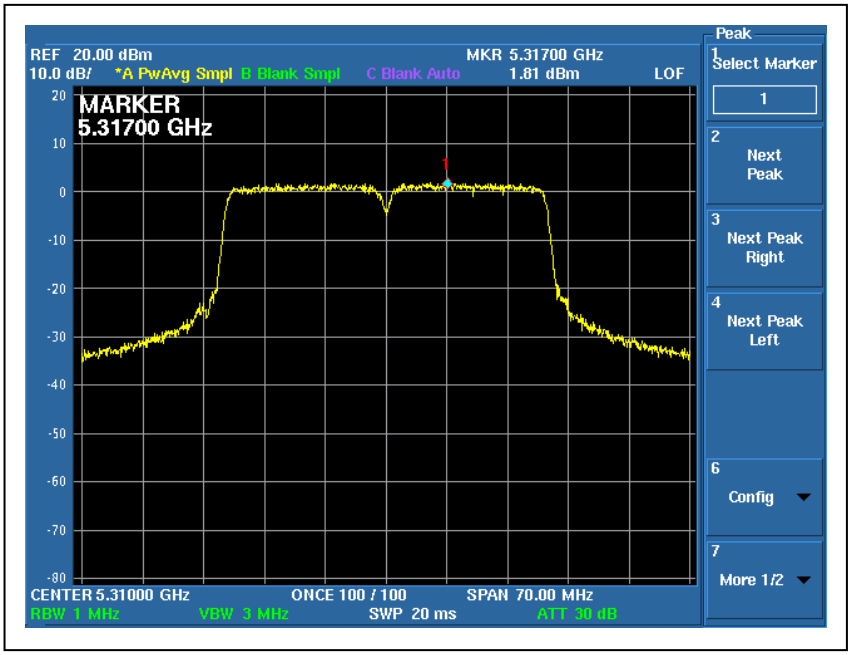
CH2



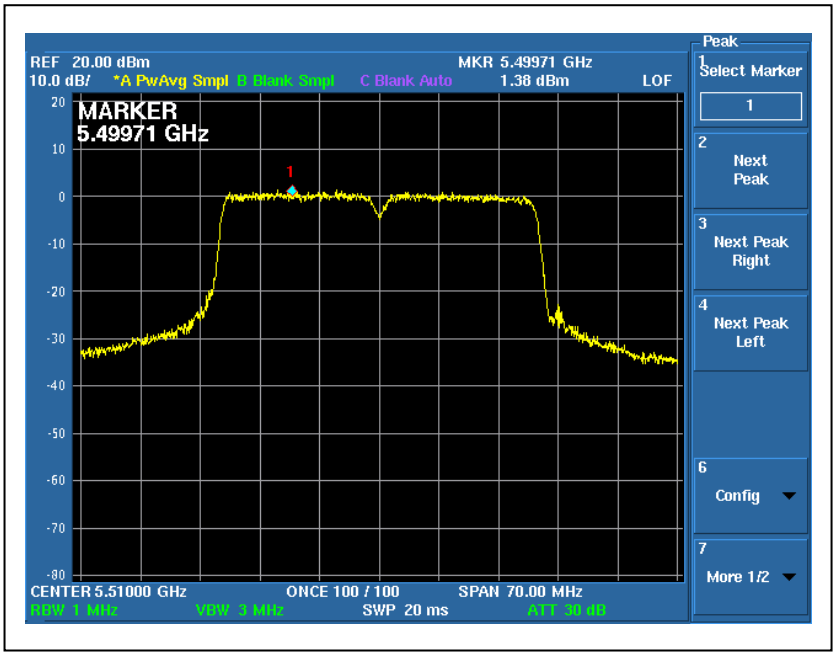
CH3


REF 20.00 dBm
MKR 5.28190 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 1.53 dBm LOF
MARKER
5.28190 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.27000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

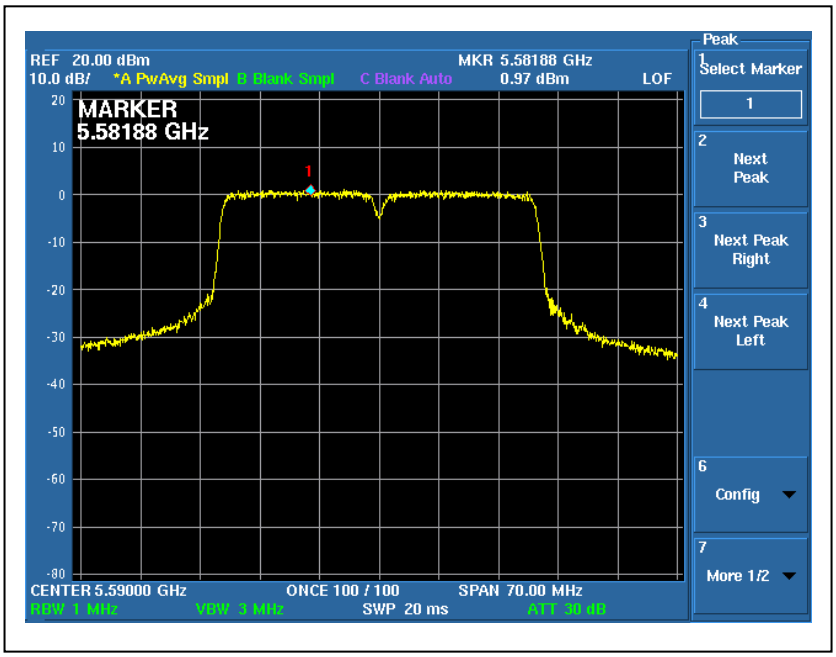
CH4


REF 20.00 dBm
MKR 5.31700 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 1.81 dBm LOF
MARKER
5.31700 GHz
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2
CENTER 5.31000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB

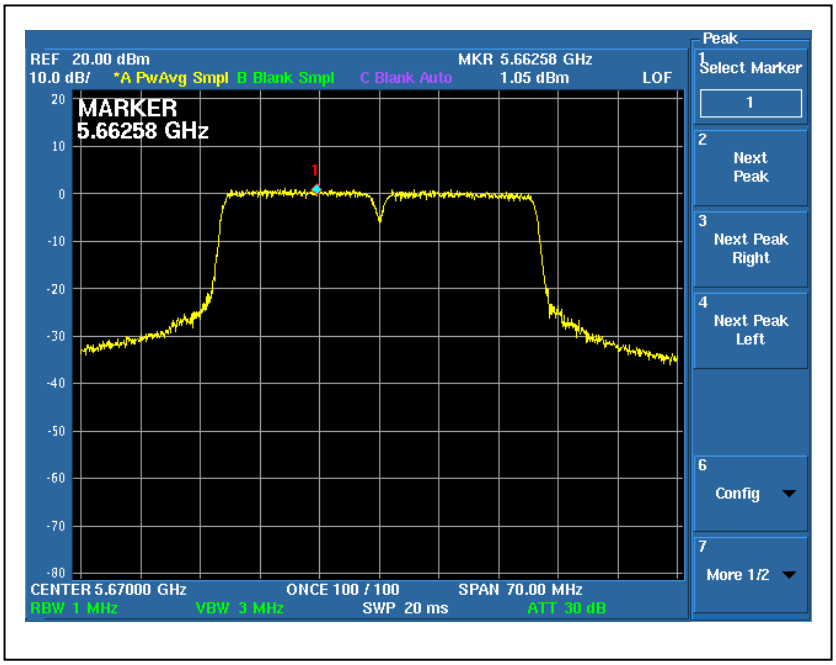
CH5


REF 20.00 dBm
MKR 5.49971 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 1.38 dBm LOF
MARKER
5.49971 GHz
CENTER 5.51000 GHz ONCE 100 / 100 SPAN 70.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

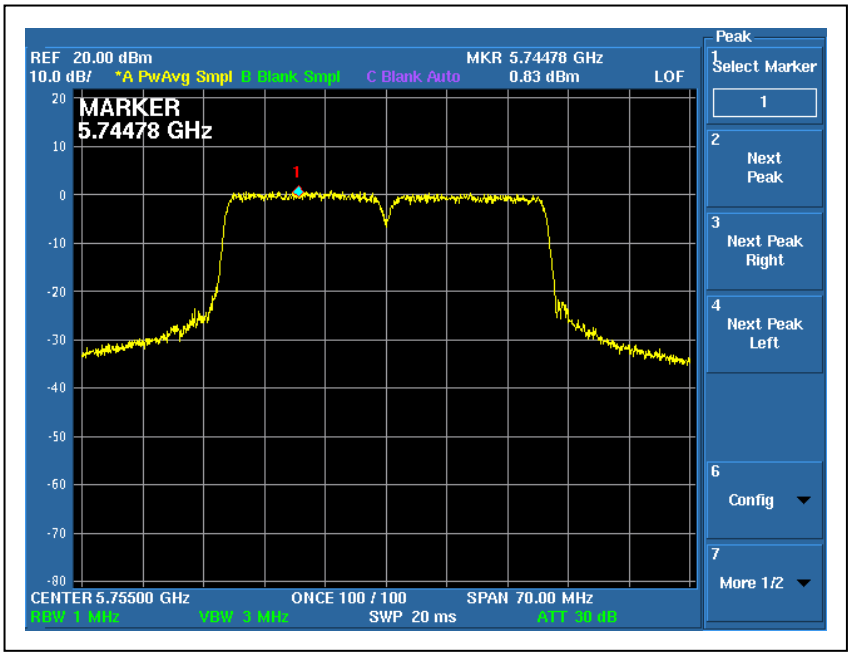
CH7


REF 20.00 dBm
MKR 5.58188 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 0.97 dBm LOF
MARKER
5.58188 GHz
CENTER 5.59000 GHz ONCE 100 / 100 SPAN 70.00 MHz
RBW 1 MHz VBW 3 MHz SWP 20 ms ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

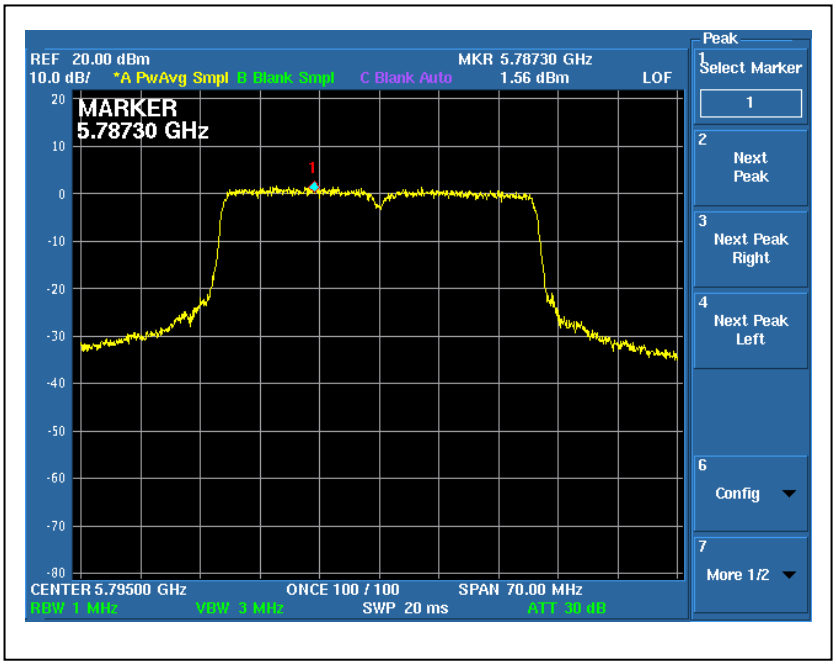
CH9


REF 20.00 dBm
MKR 5.66258 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 1.05 dBm LOF
MARKER
5.66258 GHz
CENTER 5.67000 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

CH10


REF 20.00 dBm
MKR 5.74478 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 0.83 dBm LOF
MARKER
5.74478 GHz
CENTER 5.75500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

CH11


REF 20.00 dBm
MKR 5.78730 GHz
10.0 dB/ *A PwAvg Smpl B Blank Smpl C Blank Auto 1.56 dBm LOF
MARKER
5.78730 GHz
CENTER 5.79500 GHz
ONCE 100 / 100
SPAN 70.00 MHz
RBW 1 MHz
VBW 3 MHz
SWP 20 ms
ATT 30 dB
Peak
1 Select Marker
1
2 Next Peak
3 Next Peak Right
4 Next Peak Left
6 Config
7 More 1/2

4.6 FREQUENCY STABILITY

4.6.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

The frequency tolerance of the carrier signal shall be maintained within +/- 0.02% of the operating frequency over a temperature variation of –30 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

4.6.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100037	July 26, 2008	July 25, 2009

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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

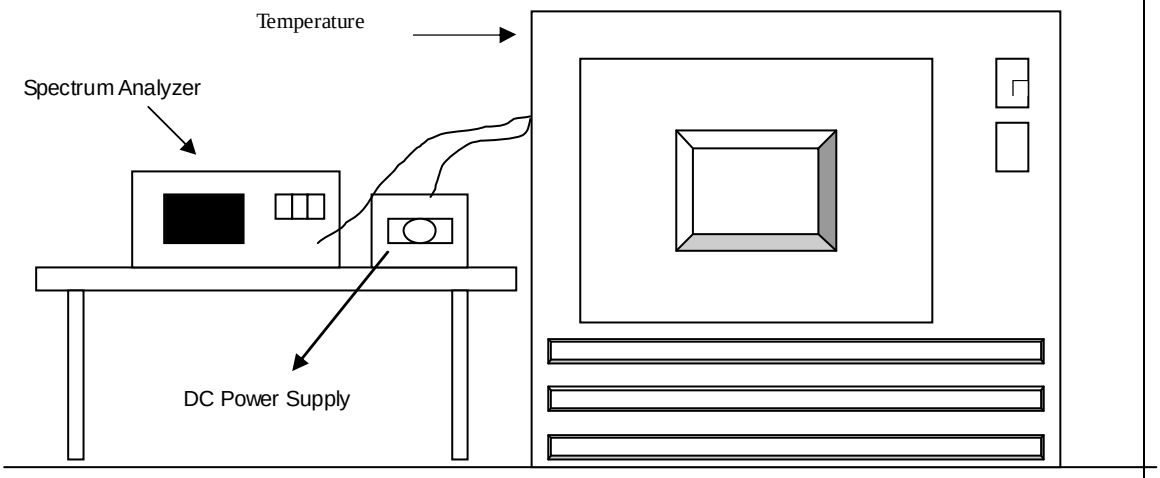
4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.6.4 DEVIATION FROM TEST STANDARD

No deviation

4.6.5 TEST SETUP



4.6.6 EUT OPERATING CONDITION

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

4.6.7 TEST RESULTS

Operating frequency: 5320MHz				Limit : ± 0.02%			
Temp. (℃)	Power supply (VAC)	2 minute		5 minute		10 minute	
		(MHz)	(%)	(MHz)	(%)	(MHz)	(%)
50	126.5	5320.028	0.000526	5320.0264	0.000496	5320.0244	0.000459
	110	5320.0278	0.000523	5320.0284	0.000534	5320.0264	0.000496
	93.5	5320.0278	0.000523	5320.0254	0.000477	5320.0244	0.000459
40	126.5	5320.0338	0.000635	5320.0341	0.000641	5320.0342	0.000643
	110	5320.0338	0.000635	5320.034	0.000639	5320.0342	0.000643
	93.5	5320.034	0.000639	5320.0338	0.000635	5320.0342	0.000643
30	126.5	5320.009	0.000169	5320.0085	0.000160	5320.0082	0.000154
	110	5320.009	0.000169	5320.0087	0.000164	5320.0085	0.000160
	93.5	5320.009	0.000169	5320.0085	0.000160	5320.0082	0.000154
20	126.5	5319.9896	0.000195	5319.9893	0.000201	5319.9891	0.000205
	110	5319.9896	0.000195	5319.9895	0.000197	5319.9892	0.000203
	93.5	5319.9896	0.000195	5319.9893	0.000201	5319.9890	0.000207
10	126.5	5320.0274	0.000515	5320.0224	0.000421	5320.0184	0.000346
	110	5320.0274	0.000515	5320.0254	0.000477	5320.0214	0.000402
	93.5	5320.0274	0.000515	5320.0214	0.000402	5320.0194	0.000365
0	126.5	5320.0098	0.000184	5320.0096	0.000180	5320.0093	0.000175
	110	5320.0098	0.000184	5320.0096	0.000180	5320.0095	0.000179
	93.5	5320.0098	0.000184	5320.0095	0.000179	5320.0092	0.000173
-10	126.5	5320.0045	0.000085	5320.0042	0.000079	5320.0039	0.000073
	110	5320.0046	0.000086	5320.0046	0.000086	5320.0043	0.000081
	93.5	5320.0045	0.000085	5320.0042	0.000079	5320.0039	0.000073
-20	126.5	5320.0204	0.000383	5320.0154	0.000289	5320.0154	0.000289
	110	5320.0204	0.000383	5320.0184	0.000346	5320.0164	0.000308
	93.5	5320.0184	0.000346	5320.0154	0.000289	5320.0154	0.000289
-30	126.5	5319.9855	0.000273	5319.995	0.000094	5319.9947	0.000100
	110	5319.9856	0.000271	5319.995	0.000094	5319.9949	0.000096
	93.5	5319.9955	0.000085	5319.9953	0.000088	5319.9946	0.000102

4.7 CONDUCTED OUT-BAND EMISSION MEASUREMENT

4.7.1 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
R&S SPECTRUM ANALYZER	FSP40	100037	July 26, 2008	July 25, 2009

NOTE:

1. The measurement uncertainty is less than +/- 2.6dB, which is calculated as per the NAMAS document NIS81. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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

4.7.2 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low lose cable. Set RBW of spectrum analyzer to 1MHz with suitable frequency span including 100 MHz bandwidth from band edge. The band edges was measured and recorded.

4.7.3 EUT OPERATING CONDITION

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

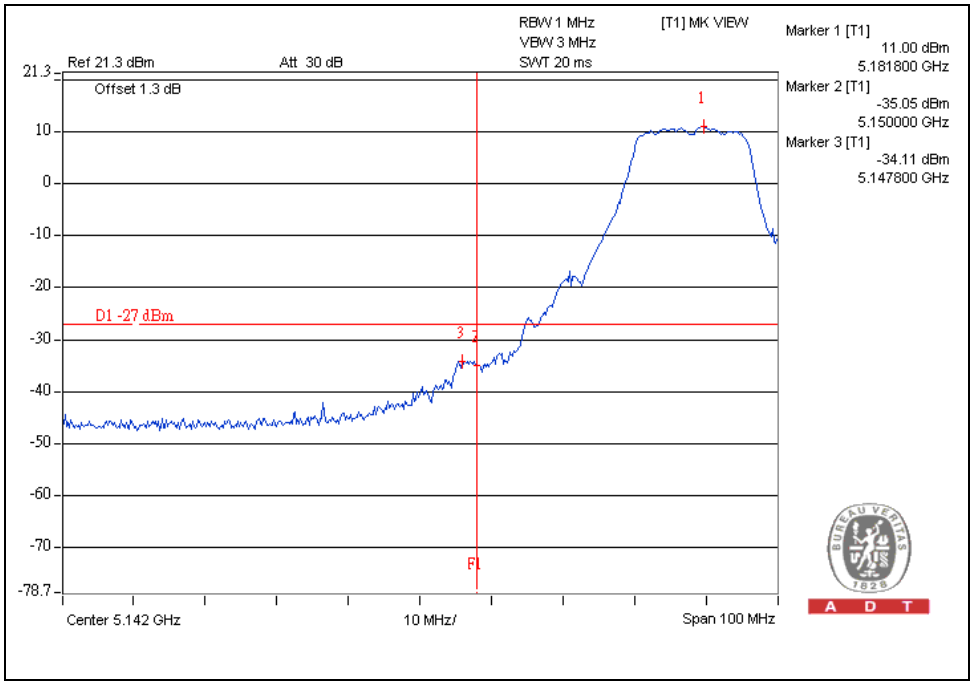
4.7.4 TEST RESULTS

For 5.15 to 5.35GHz band:

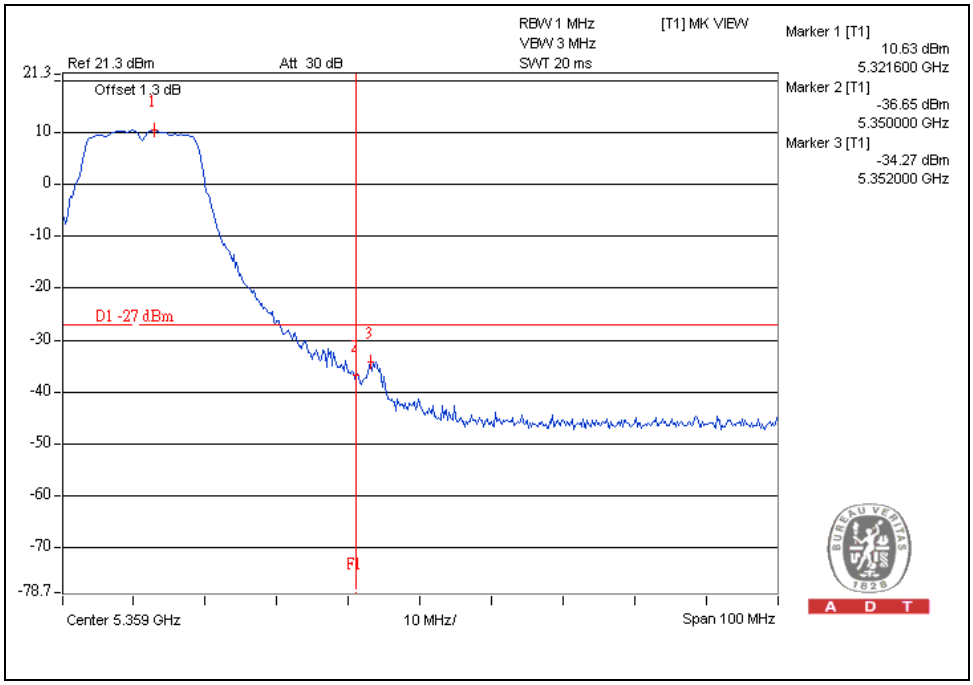
The spectrum plots (RBW=1MHz, VBW=3MHz) are attached on the following pages.

802.11a OFDM modulation

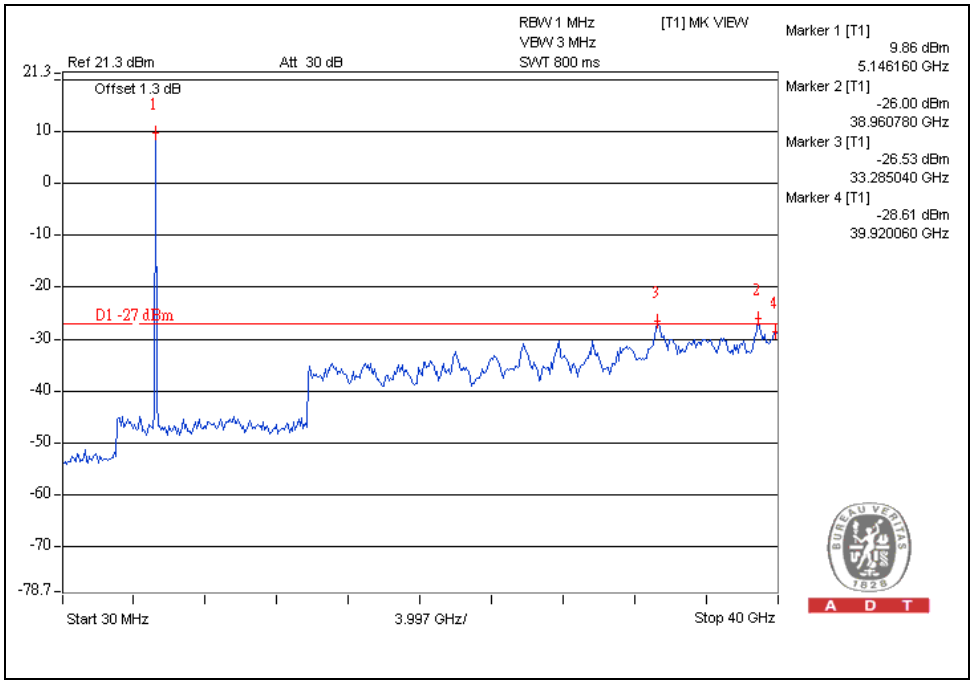
CH 1



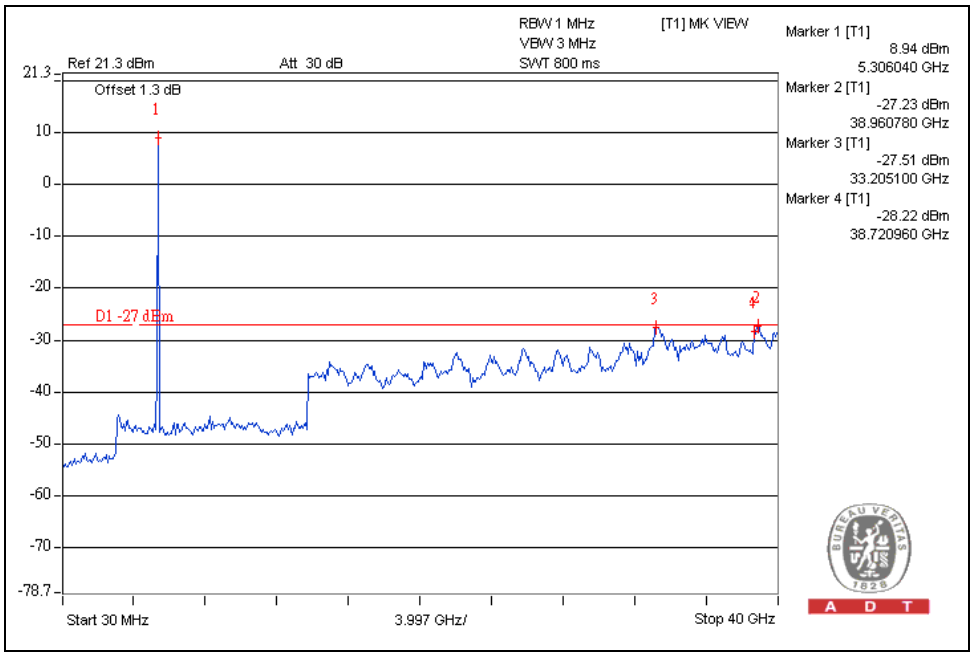
CH 8



CH 1


RBW 1 MHz
VBW 3 MHz
SWT 800 ms
[T1] MK VIEW
Ref 21.3 dBm
Att 30 dB
Offset 1.3 dB
D1 -27 dBm
Marker 1 [T1]
9.86 dBm
5.146160 GHz
Marker 2 [T1]
-26.00 dBm
38.960780 GHz
Marker 3 [T1]
-26.53 dBm
33.285040 GHz
Marker 4 [T1]
-28.61 dBm
39.920060 GHz
21.3
10
0
-10
-20
-30
-40
-50
-60
-70
-78.7
Start 30 MHz
3.997 GHz/
Stop 40 GHz

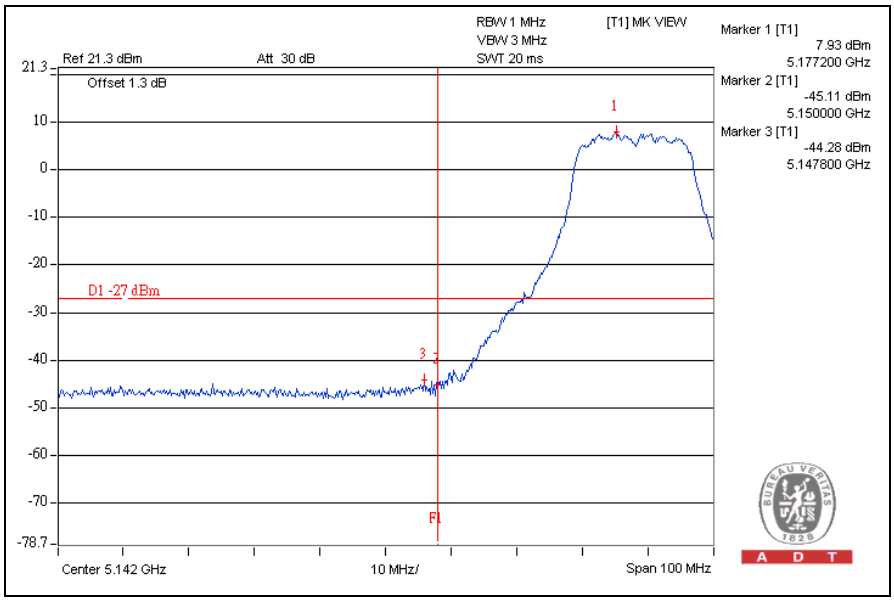
CH 8


RBW 1 MHz
VBW 3 MHz
SWT 800 ms
[T1] MK VIEW
Ref 21.3 dBm
Att 30 dB
Offset 1.3 dB
D1 -27 dBm
Marker 1 [T1]
8.94 dBm
5.306040 GHz
Marker 2 [T1]
-27.23 dBm
38.960780 GHz
Marker 3 [T1]
-27.51 dBm
33.205100 GHz
Marker 4 [T1]
-28.22 dBm
38.720960 GHz
21.3
10
0
-10
-20
-30
-40
-50
-60
-70
-78.7
Start 30 MHz
3.997 GHz/
Stop 40 GHz

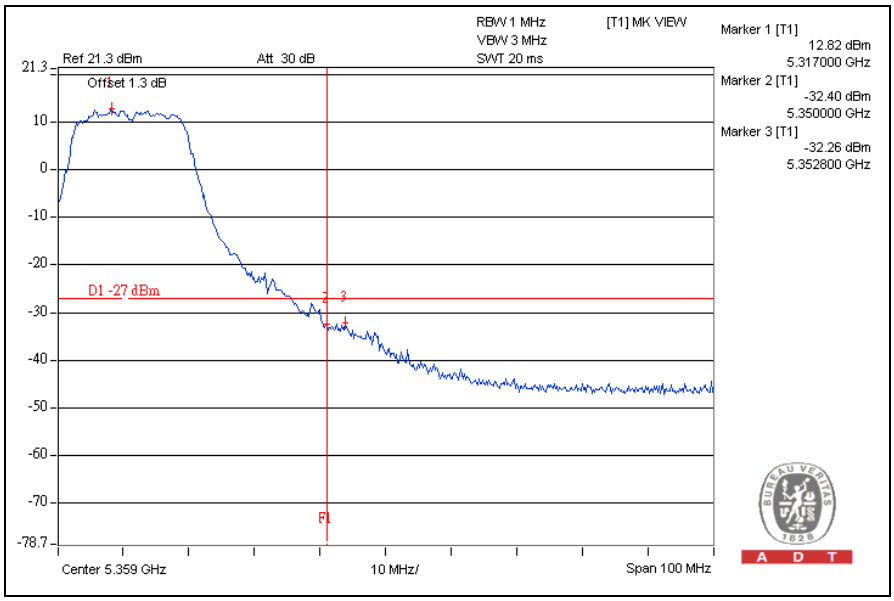
DRAFT 802.11n (20MHz) OFDM MODULATION:

For chain (0):

CH1

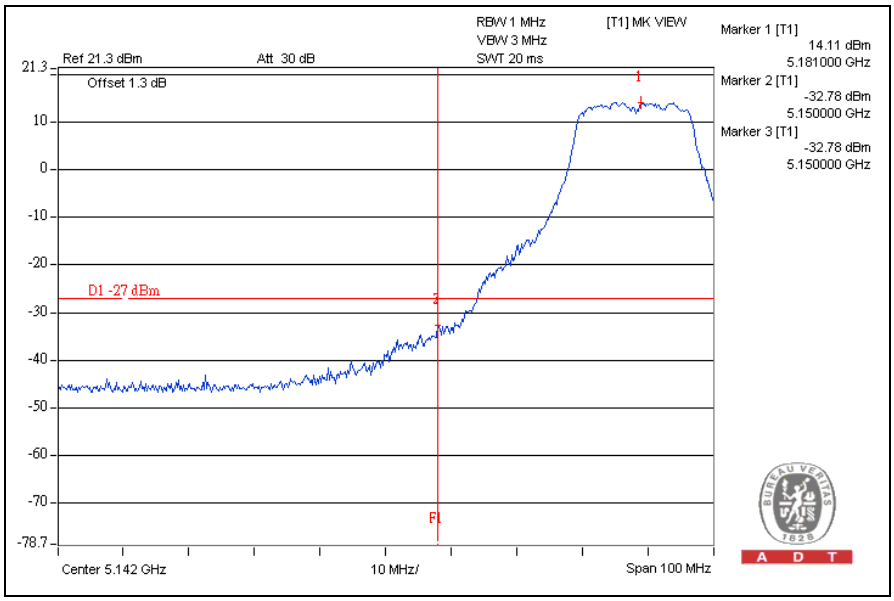


CH8

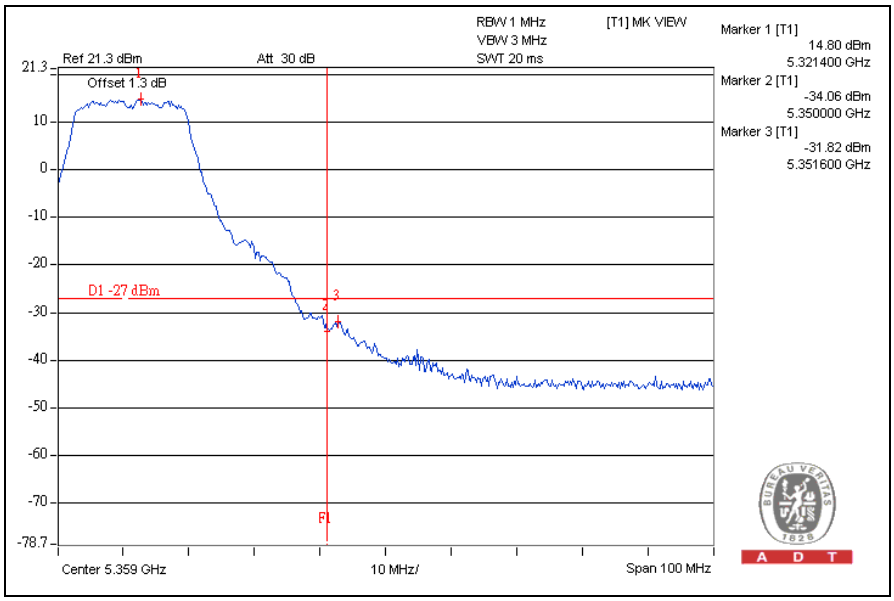


For chain (1):

CH1

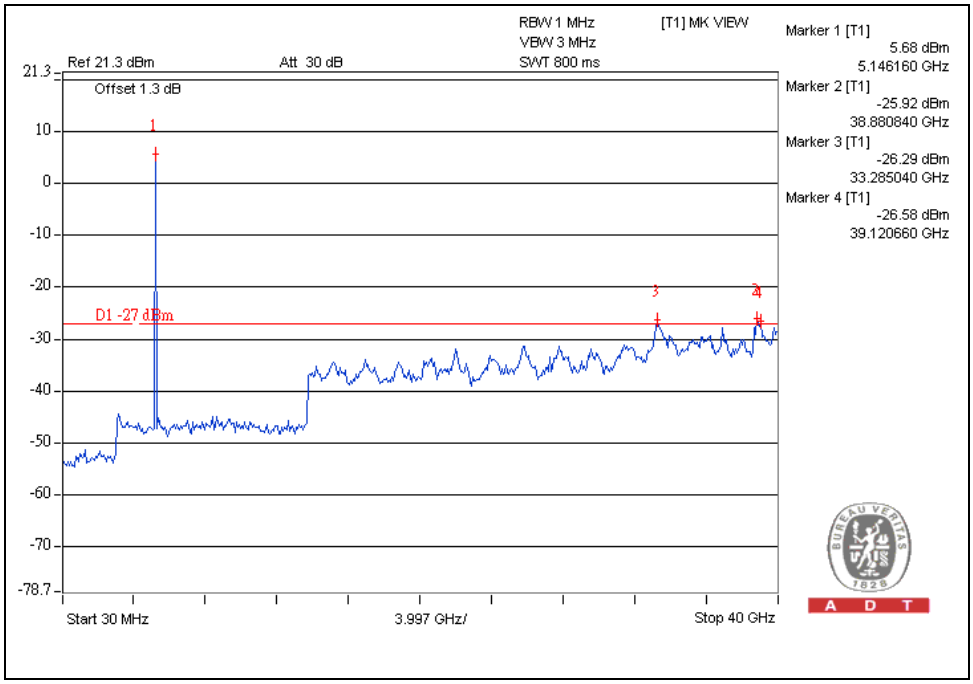


CH8

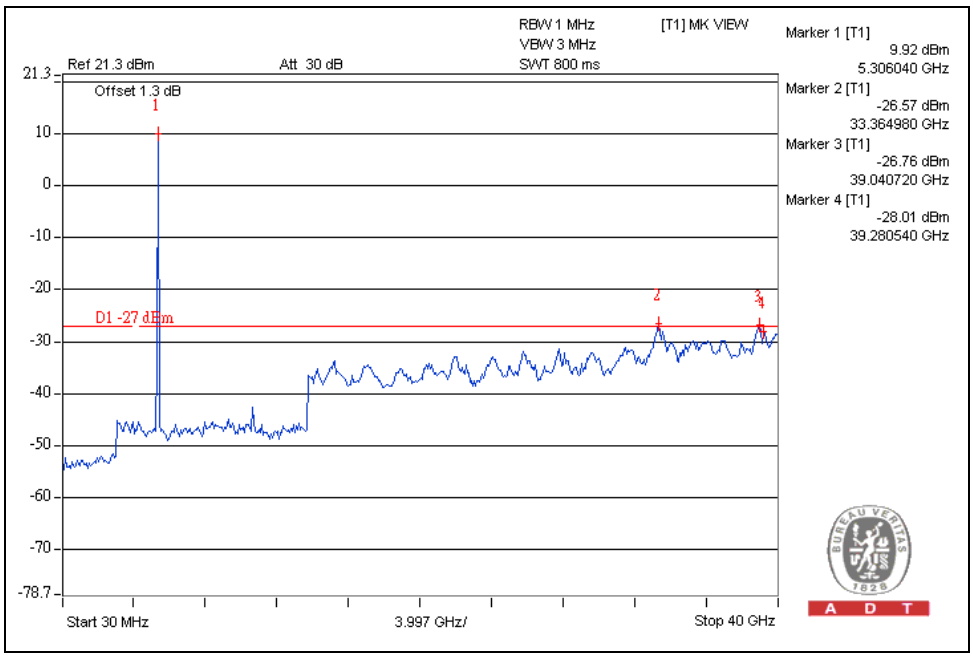


For chain (0):

CH1

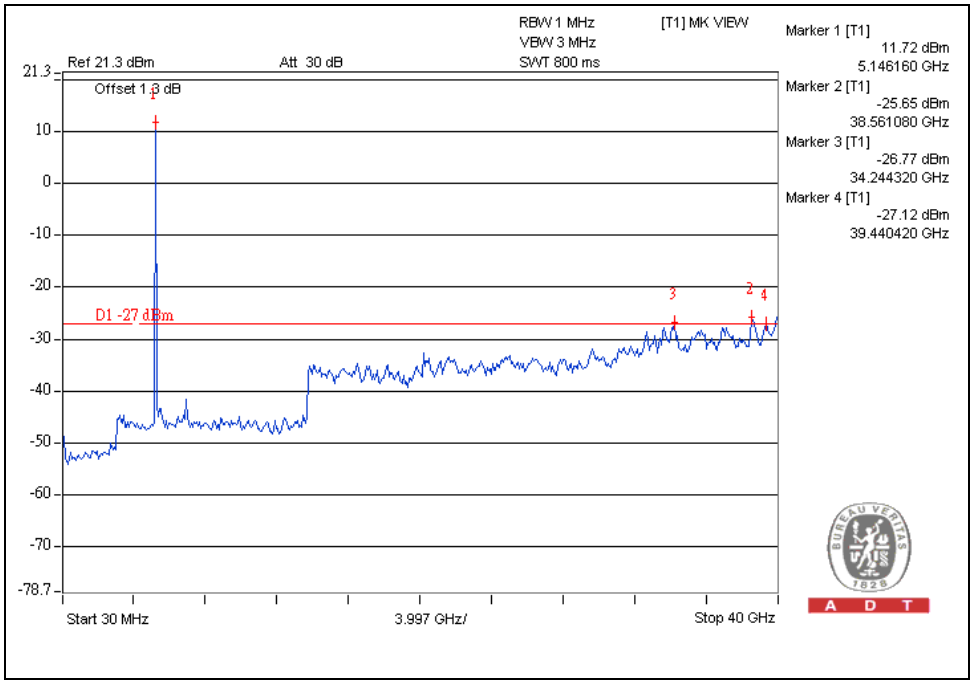


CH8

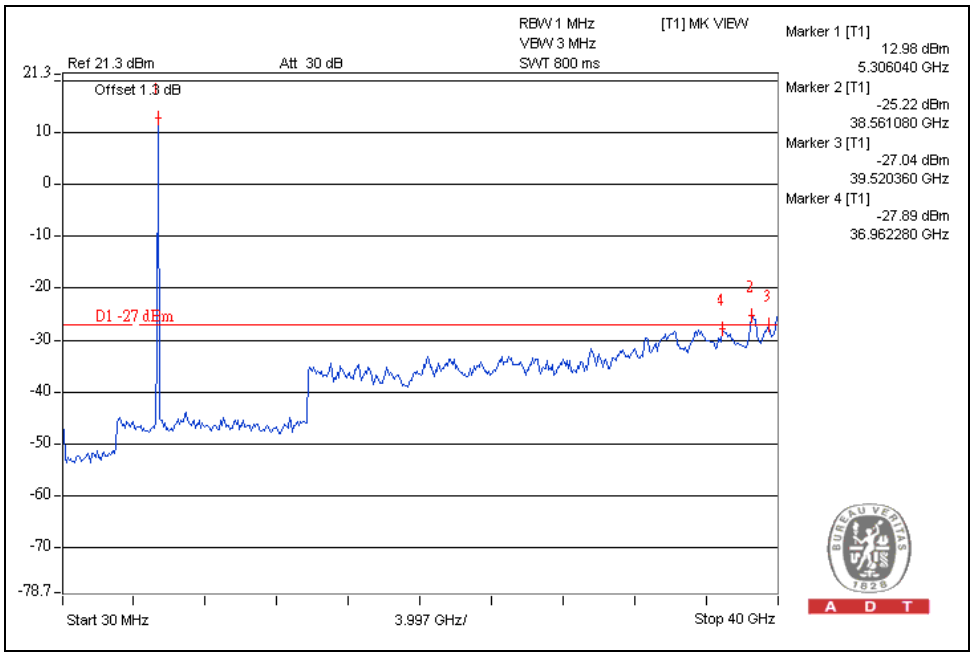


For chain (1):

CH1



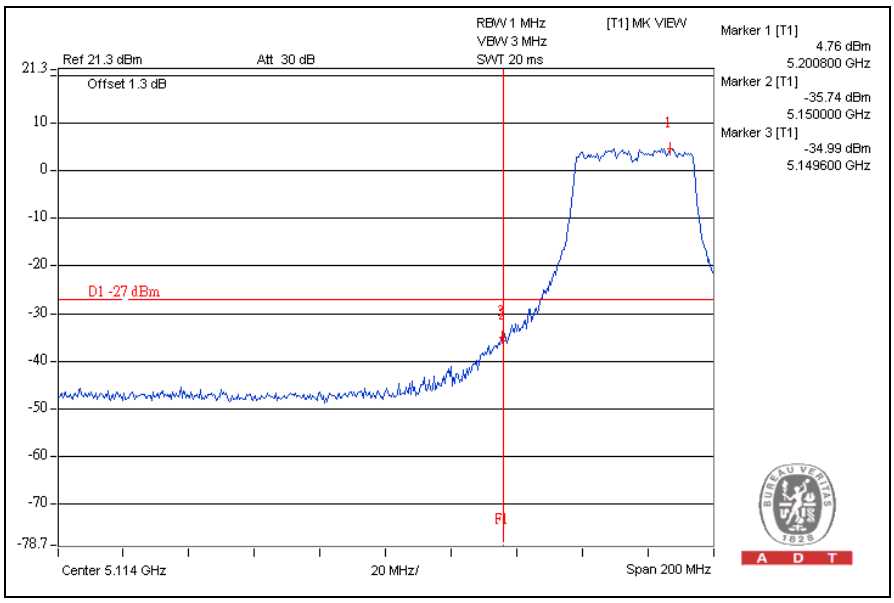
CH8



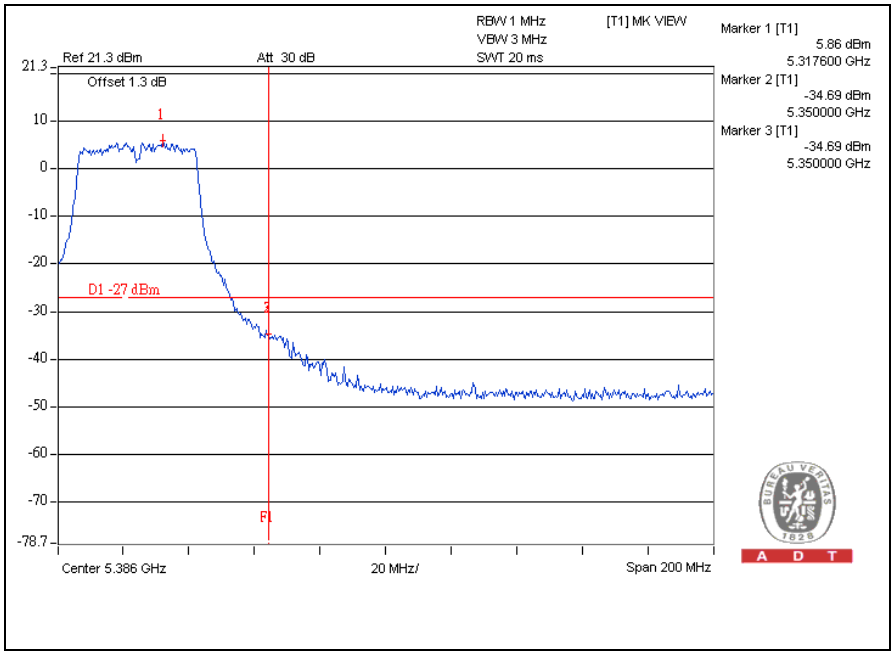
DRAFT 802.11n (40MHz) OFDM MODULATION:

For chain (0):

CH1

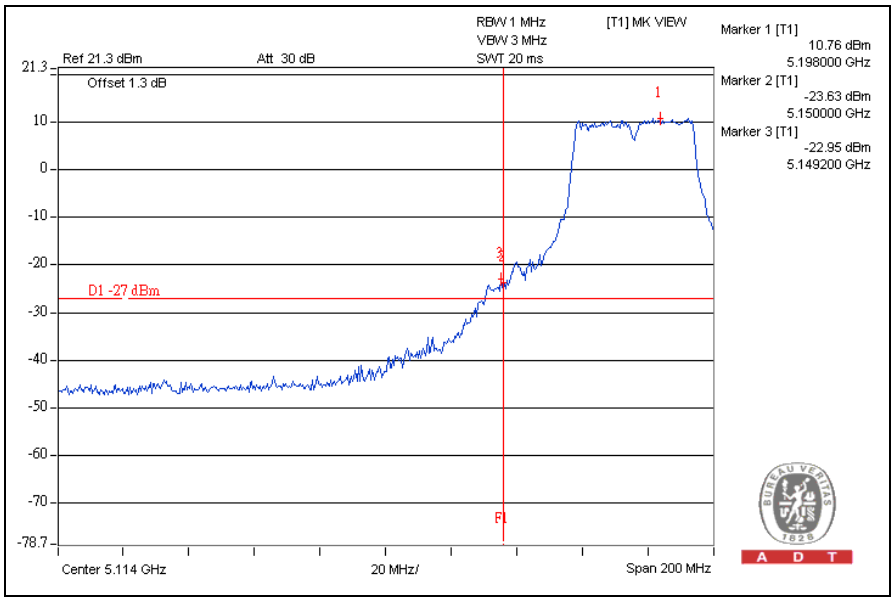


CH4

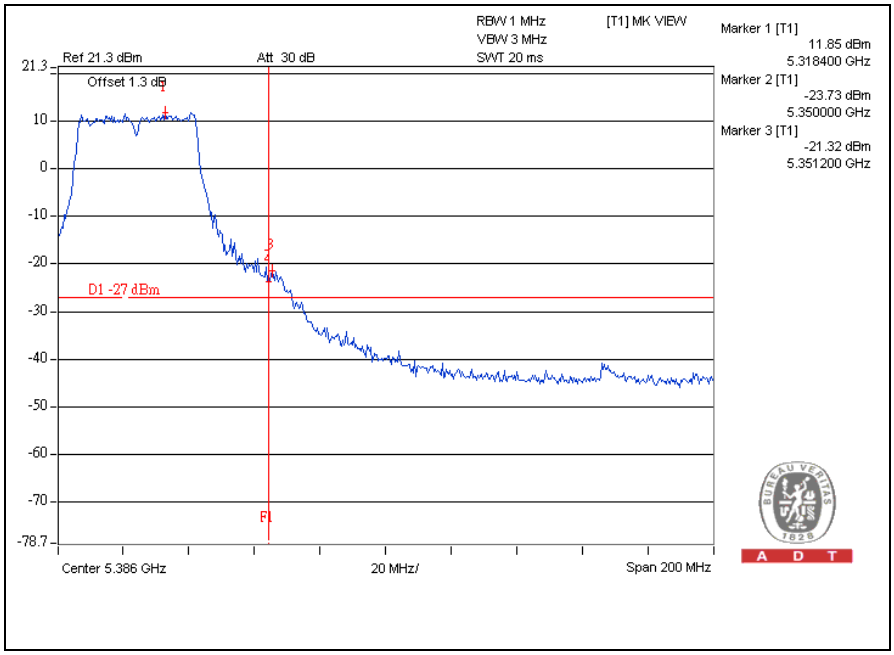


For chain (1):

CH1

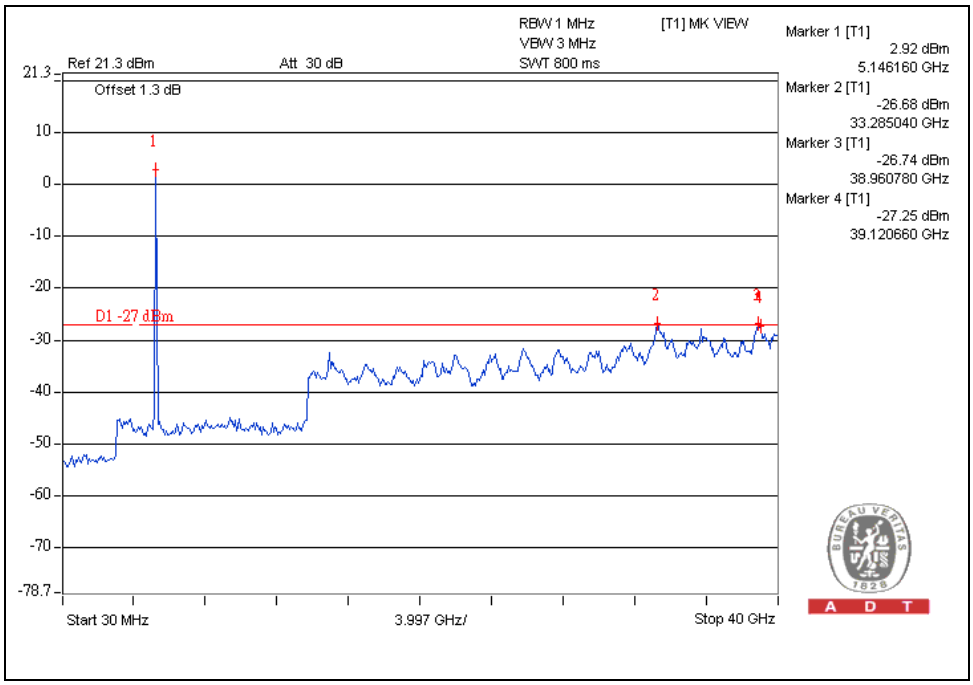


CH4

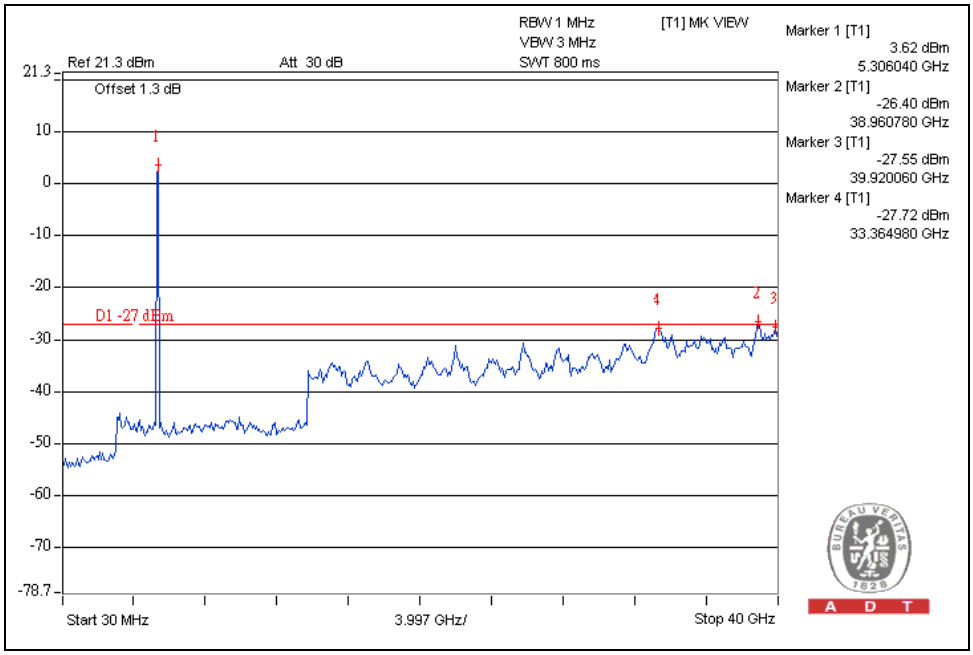


For chain (0):

CH1

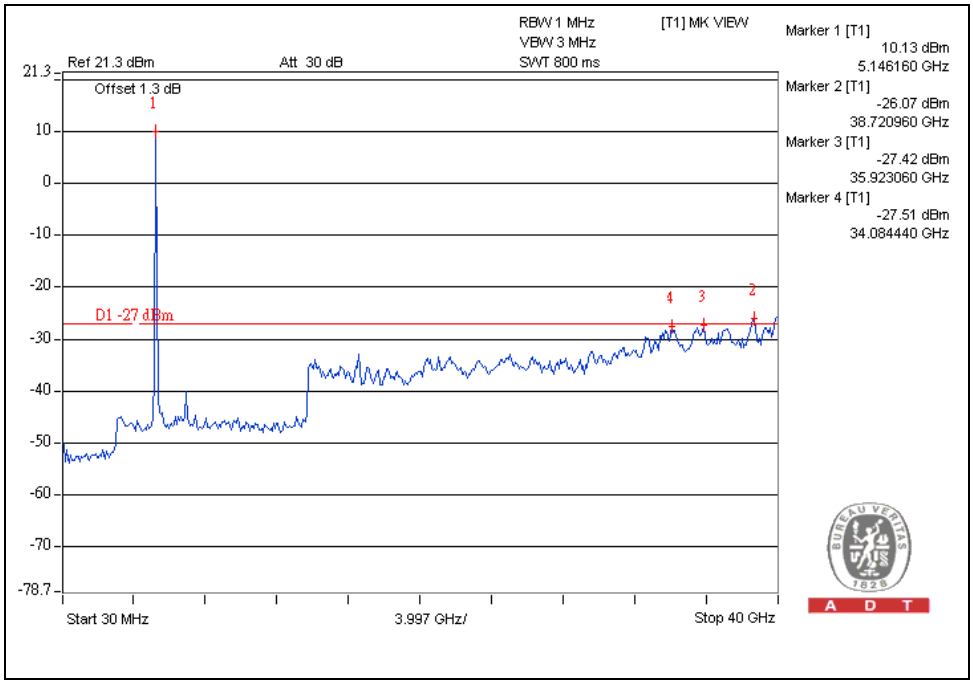


CH4

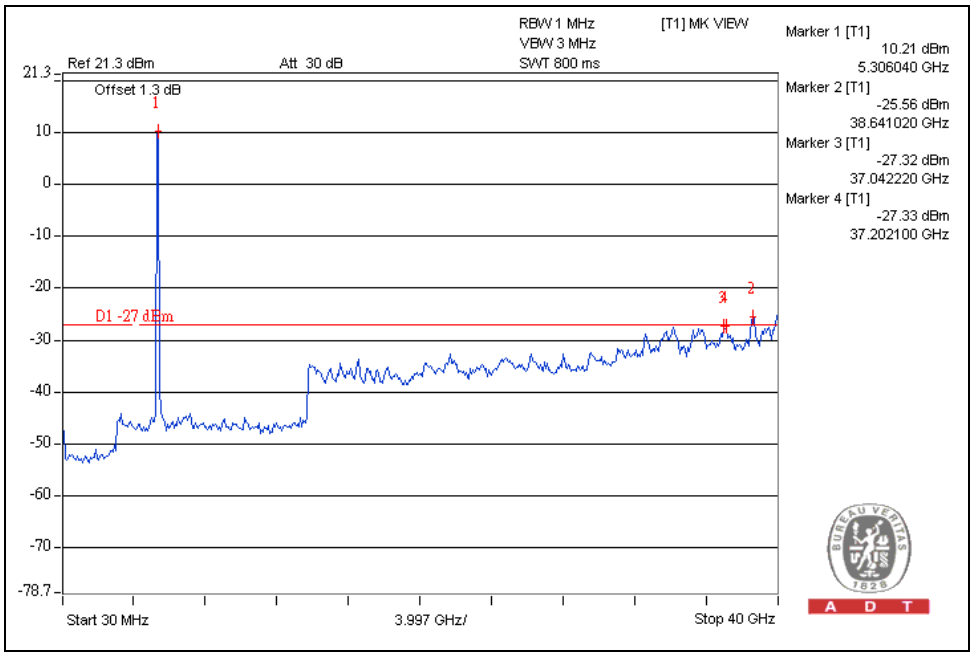


For chain (1):

CH1



CH4

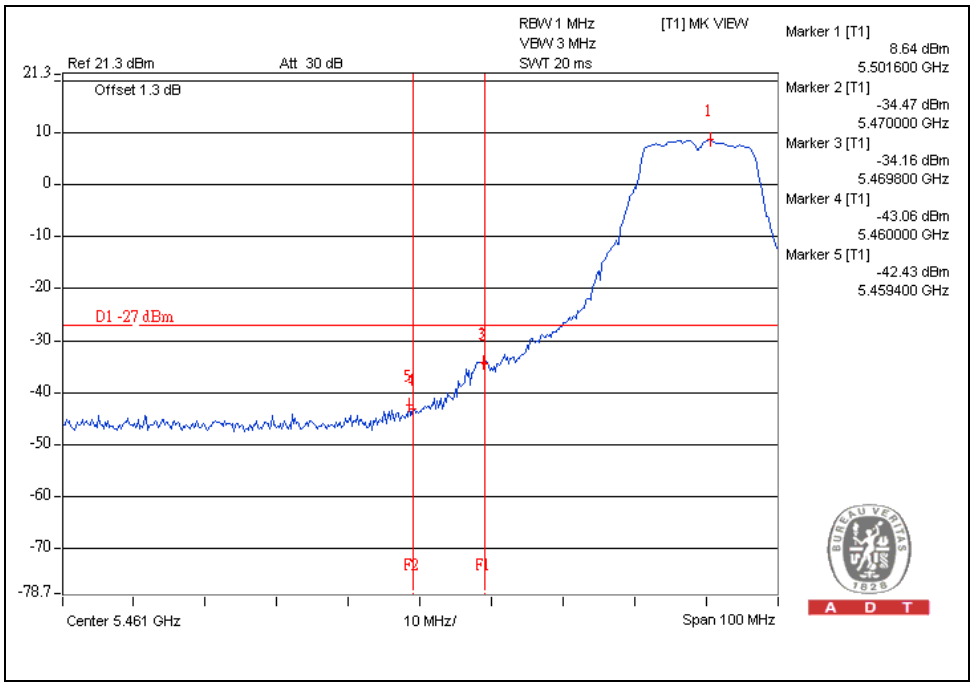


For 5.47 to 5.725GHz band:

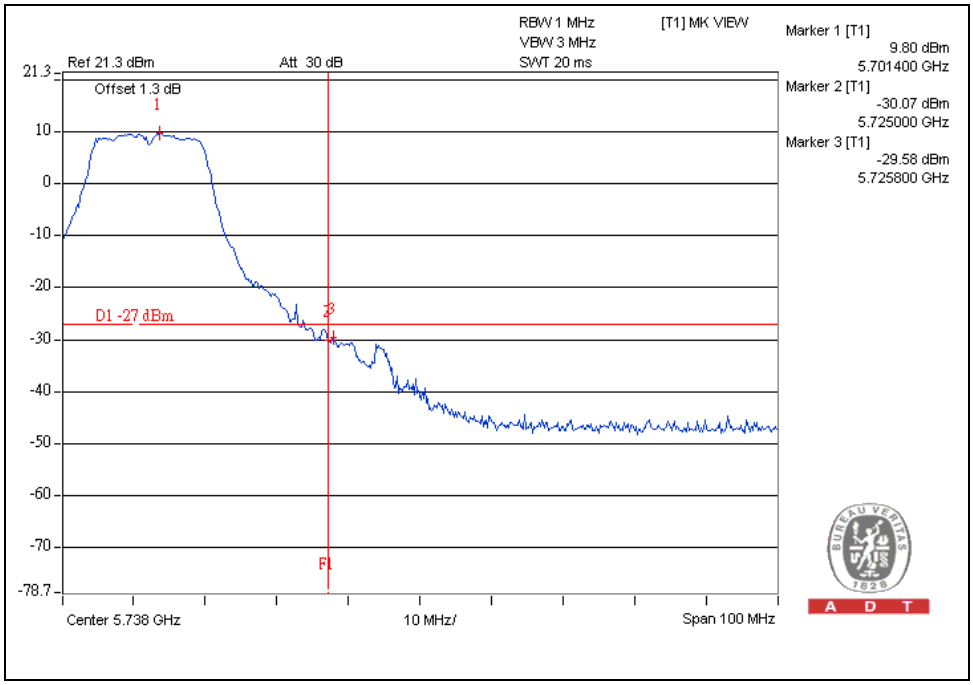
The spectrum plots (RBW=1MHz, VBW=3MHz) are attached on the following pages.

802.11a OFDM modulation

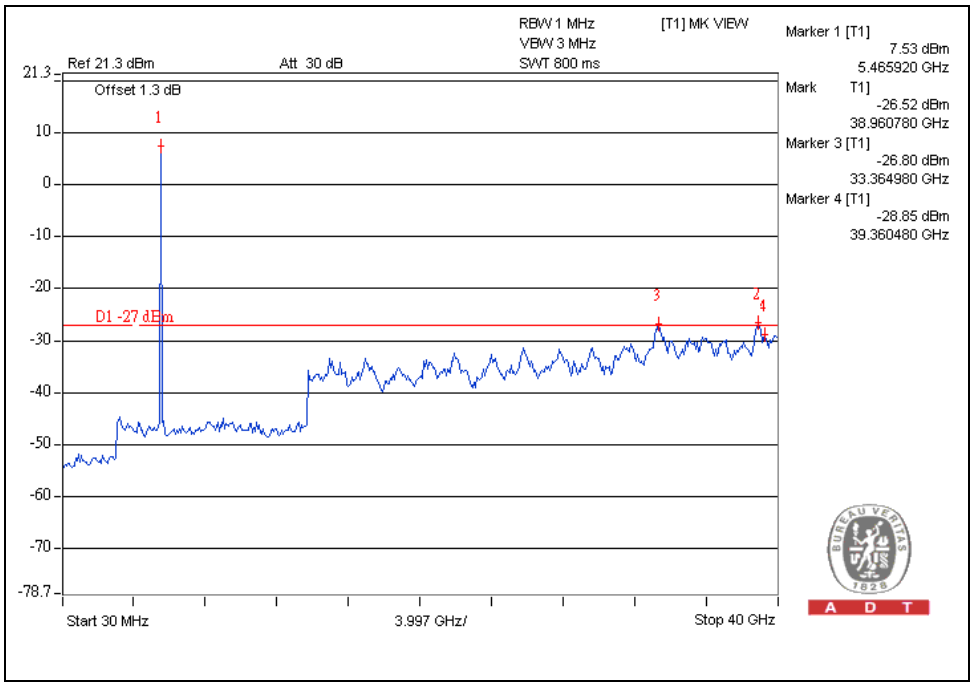
CH 9



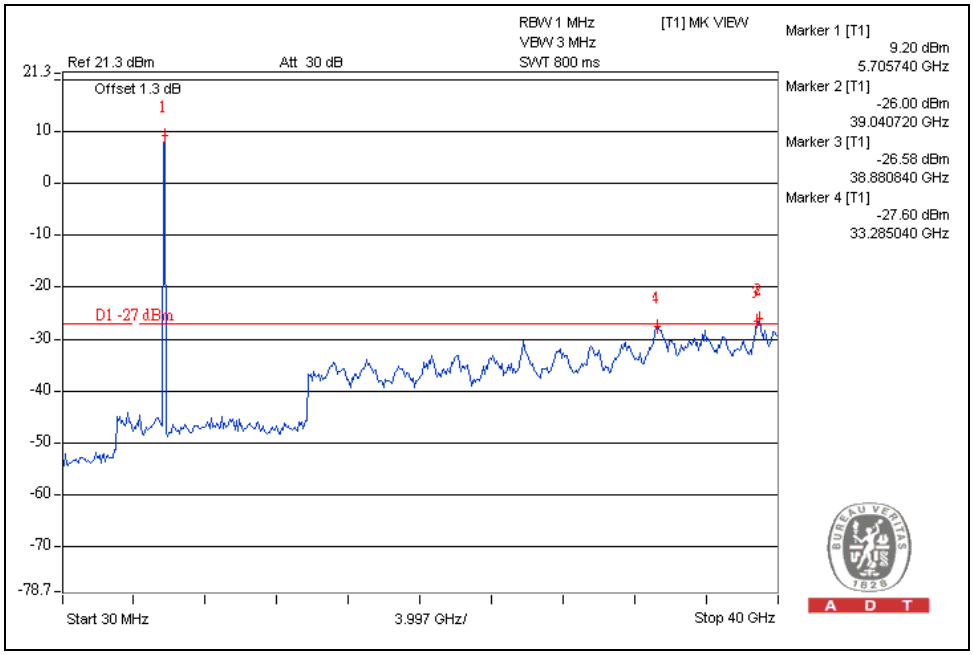
CH 19



CH 9


RBW 1 MHz
VBW 3 MHz
SWT 800 ms
[T1] MK VIEW
Ref 21.3 dBm
Att 30 dB
Offset 1.3 dB
D1 -27 dBm
Marker 1 [T1]
7.53 dBm
5.465920 GHz
Mark T1]
-26.52 dBm
38.960780 GHz
Marker 3 [T1]
-26.80 dBm
33.364980 GHz
Marker 4 [T1]
-28.85 dBm
39.360480 GHz
Start 30 MHz
3.997 GHz/
Stop 40 GHz

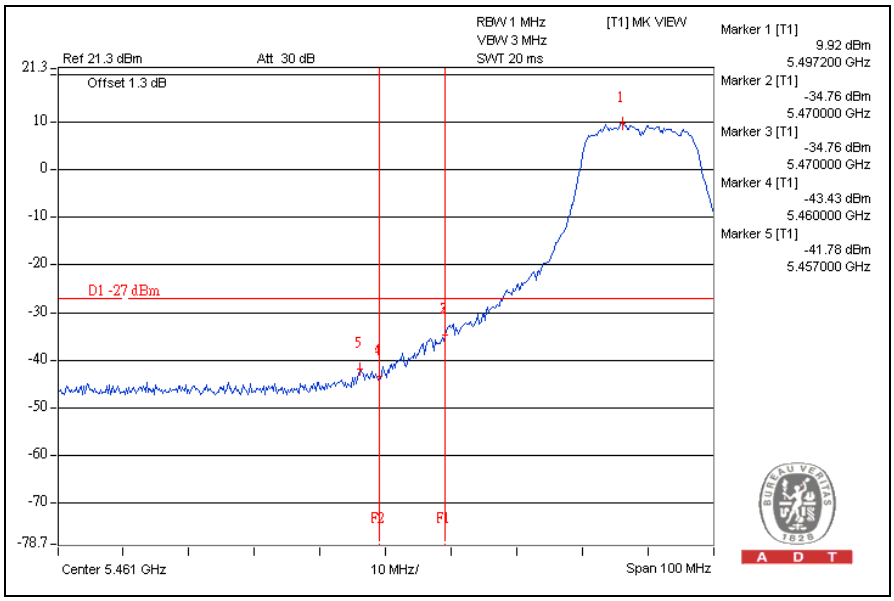
CH 19


RBW 1 MHz
VBW 3 MHz
SWT 800 ms
[T1] MK VIEW
Ref 21.3 dBm
Att 30 dB
Offset 1.3 dB
D1 -27 dBm
Marker 1 [T1]
9.20 dBm
5.705740 GHz
Marker 2 [T1]
-26.00 dBm
39.040720 GHz
Marker 3 [T1]
-26.58 dBm
38.880840 GHz
Marker 4 [T1]
-27.60 dBm
33.285040 GHz
Start 30 MHz
3.997 GHz/
Stop 40 GHz

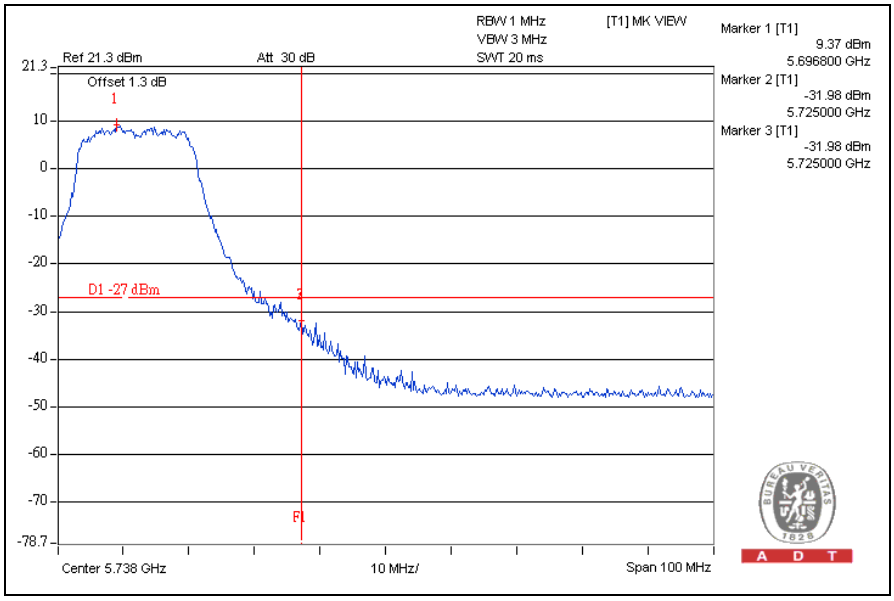
DRAFT 802.11n (20MHz) OFDM MODULATION:

For chain (0):

CH9

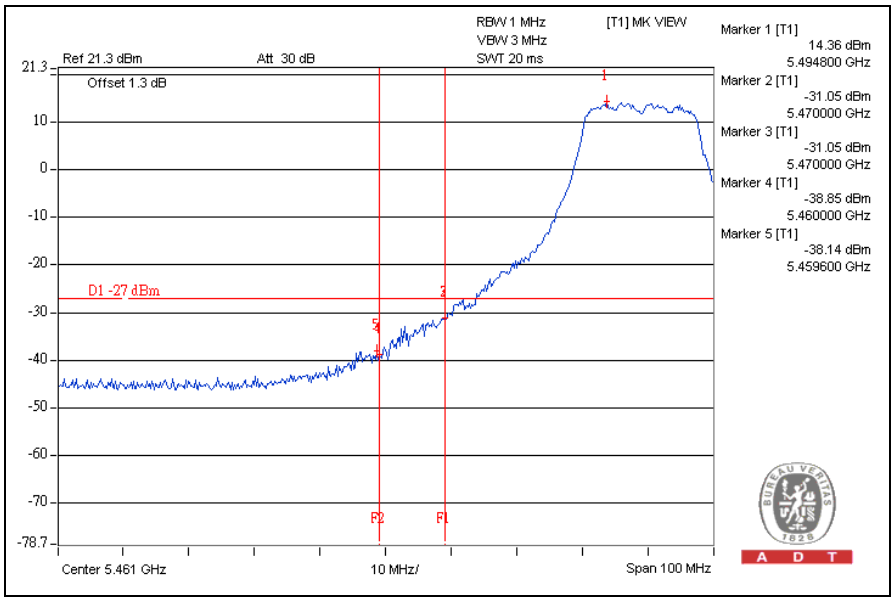


CH19

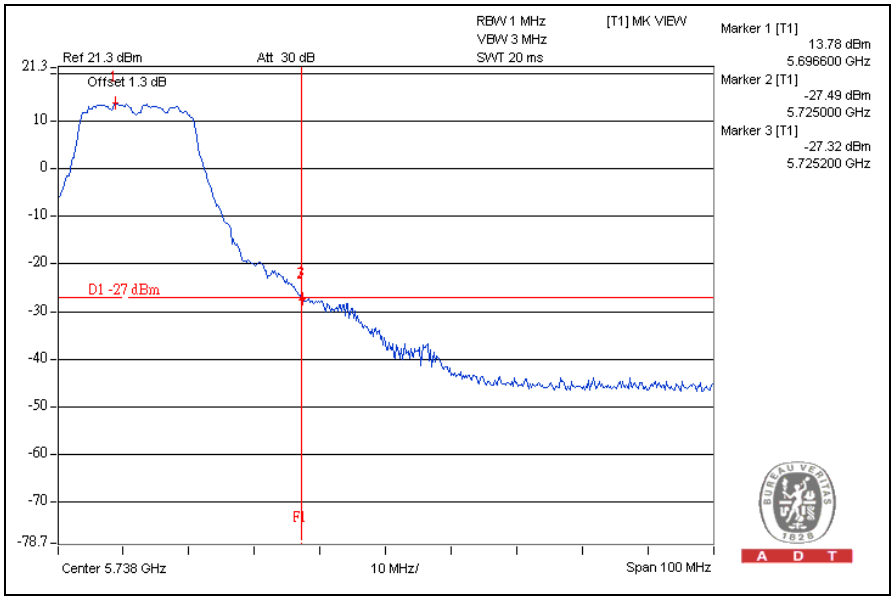


For chain (1):

CH9

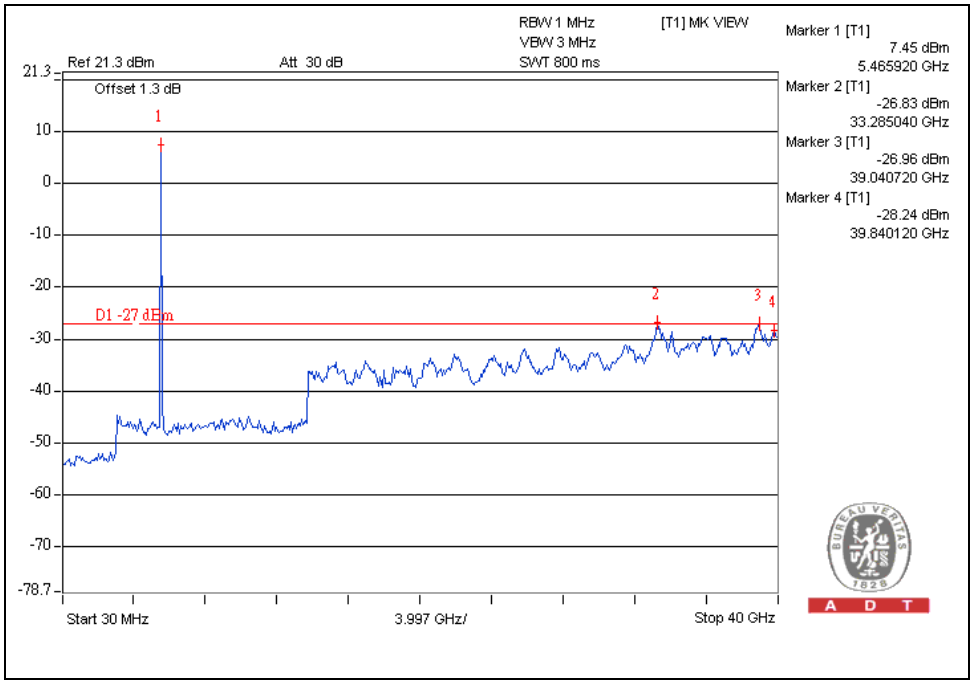


CH19

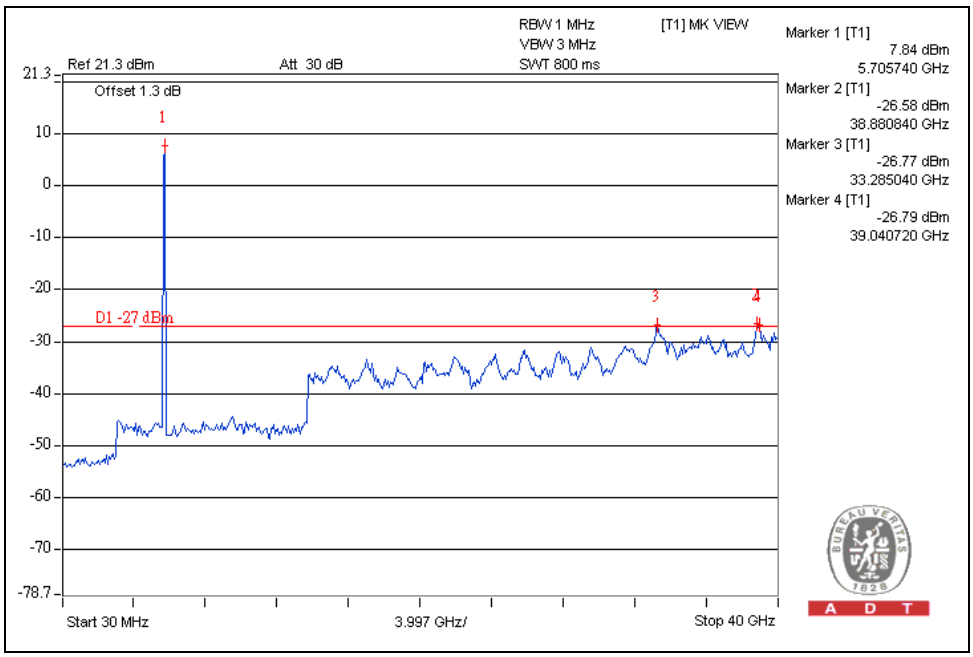


For chain (0):

CH9

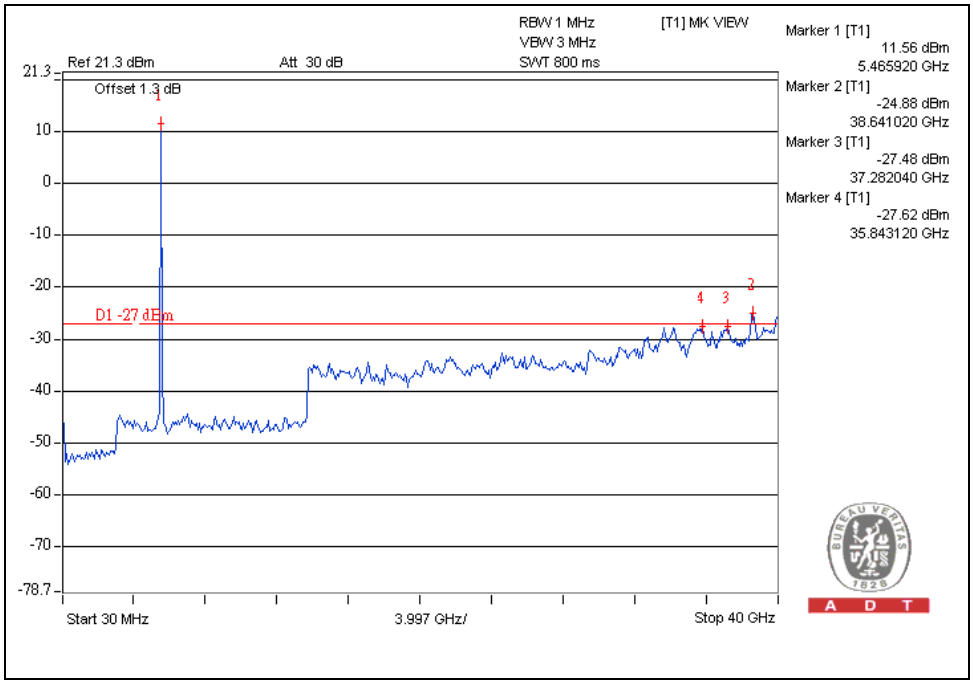


CH19

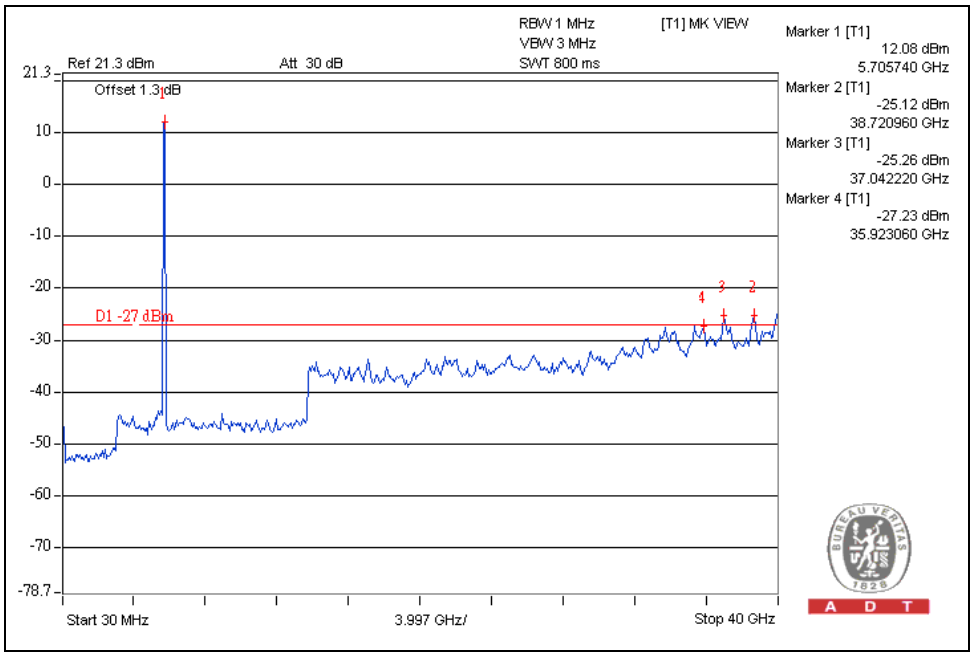


For chain (1):

CH9



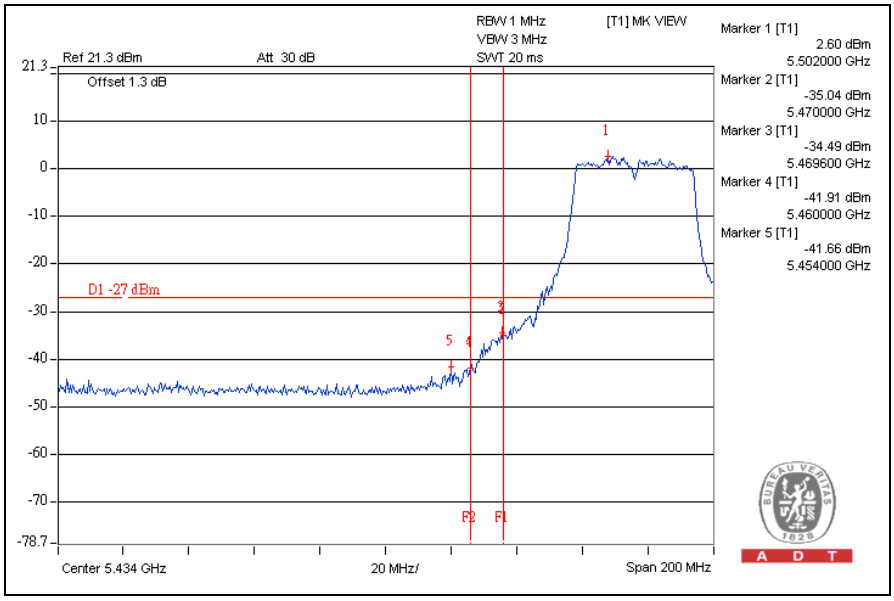
CH19



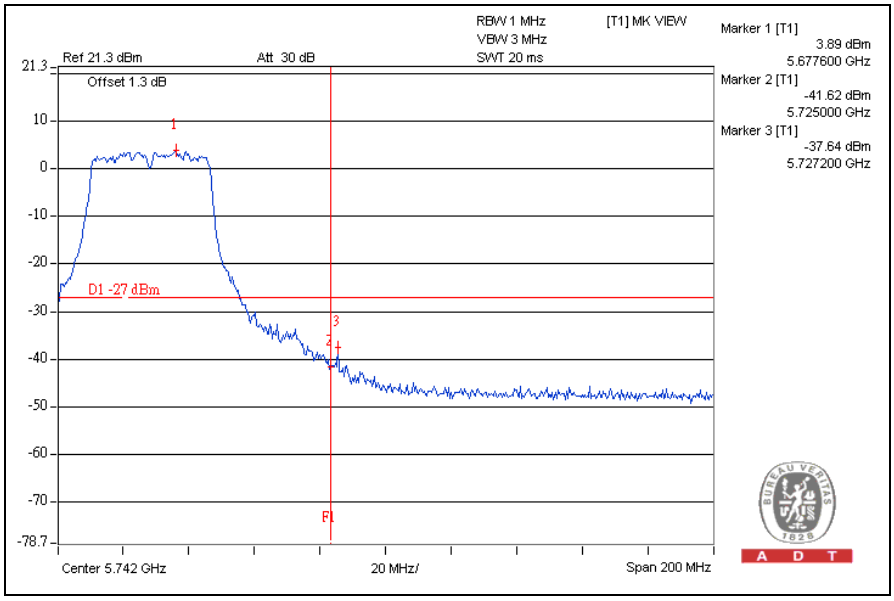
DRAFT 802.11n (40MHz) OFDM MODULATION:

For chain (0):

CH5

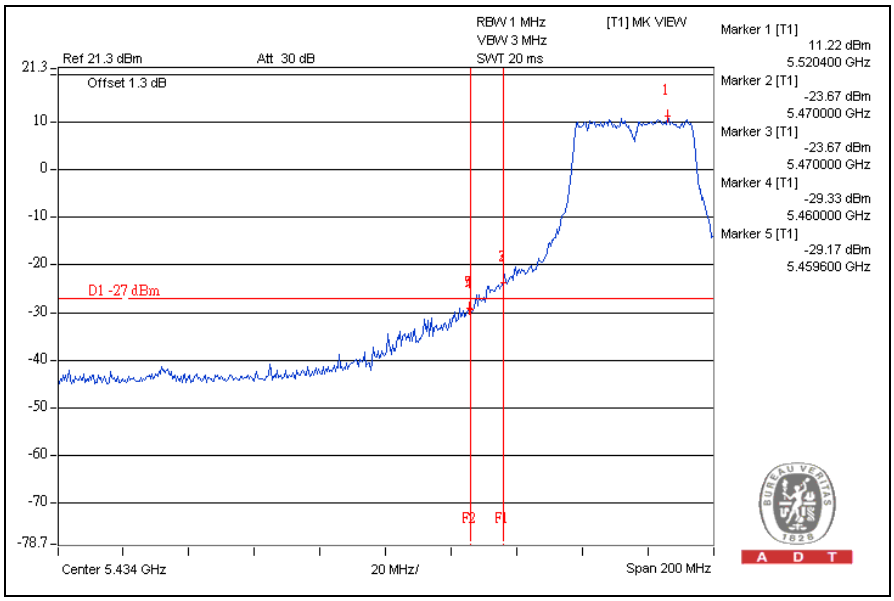


CH9

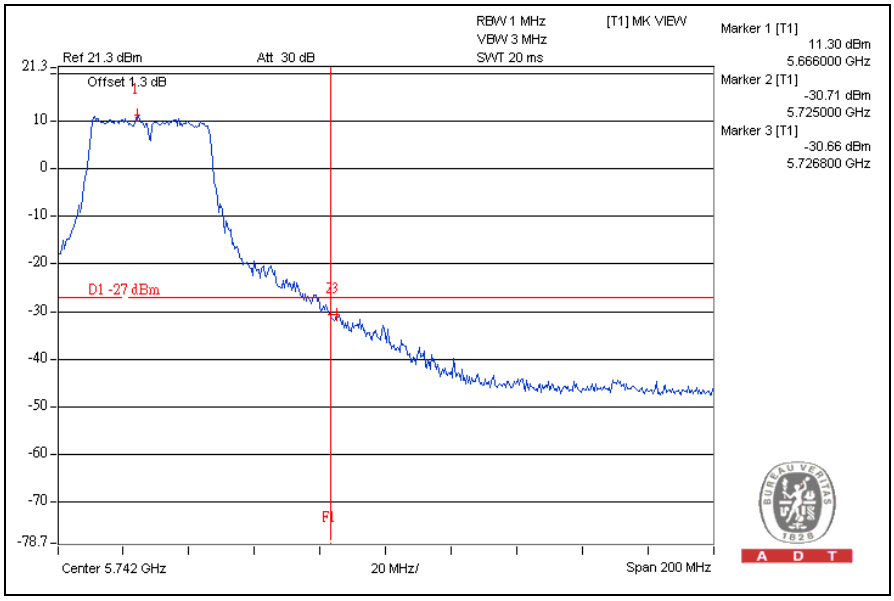


For chain (1):

CH5

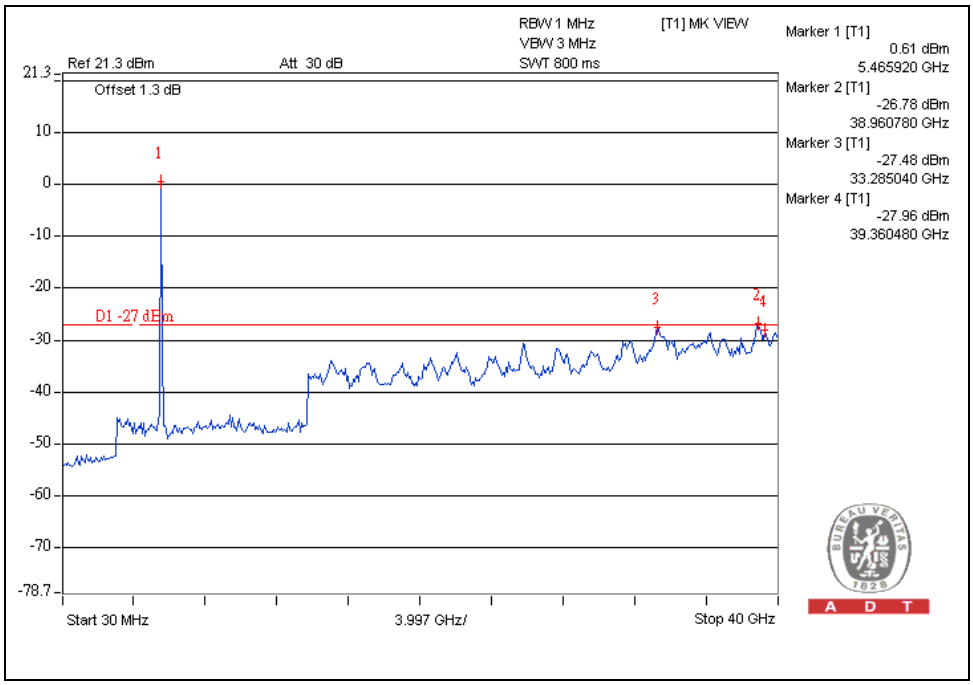


CH9

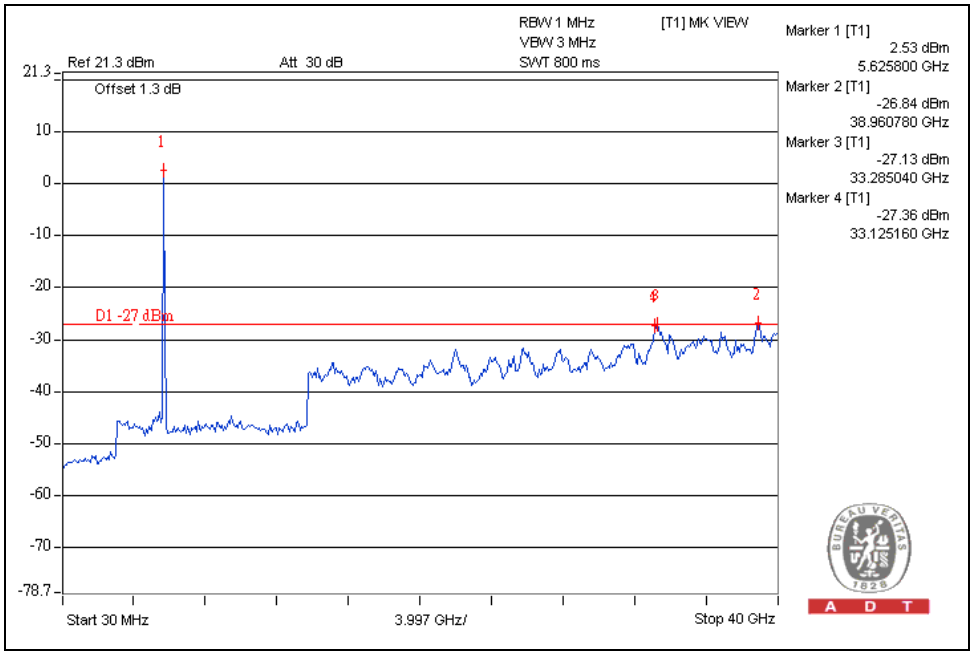


For chain (0):

CH5

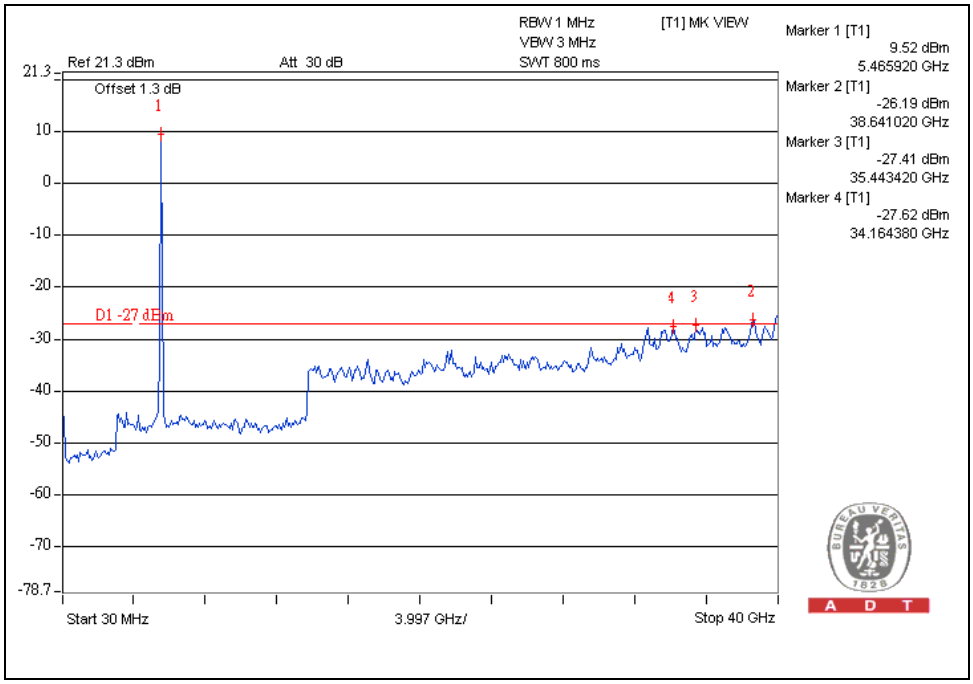


CH9

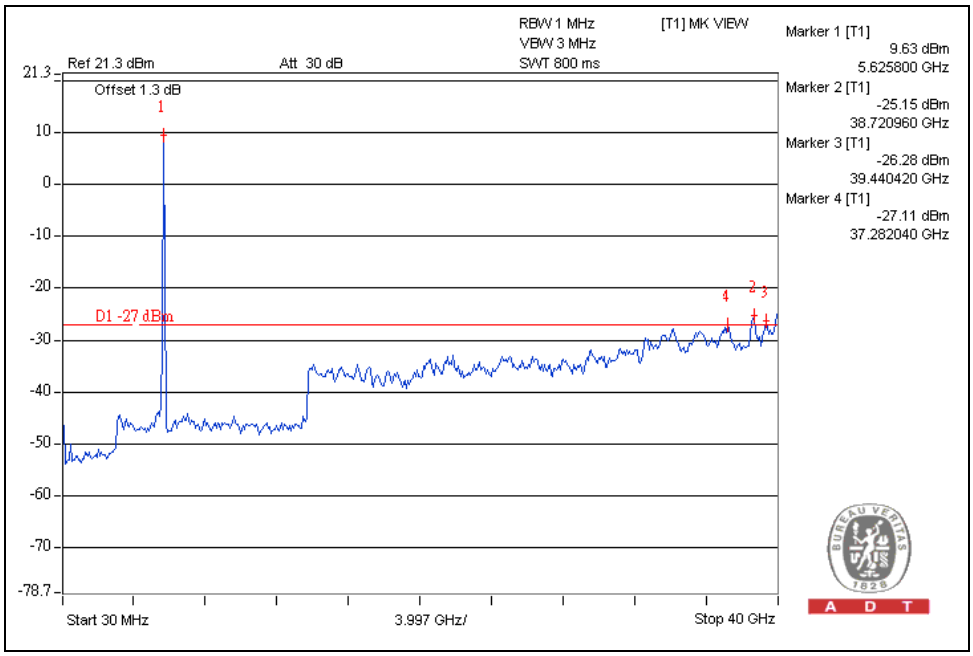


For chain (1):

CH5



CH9

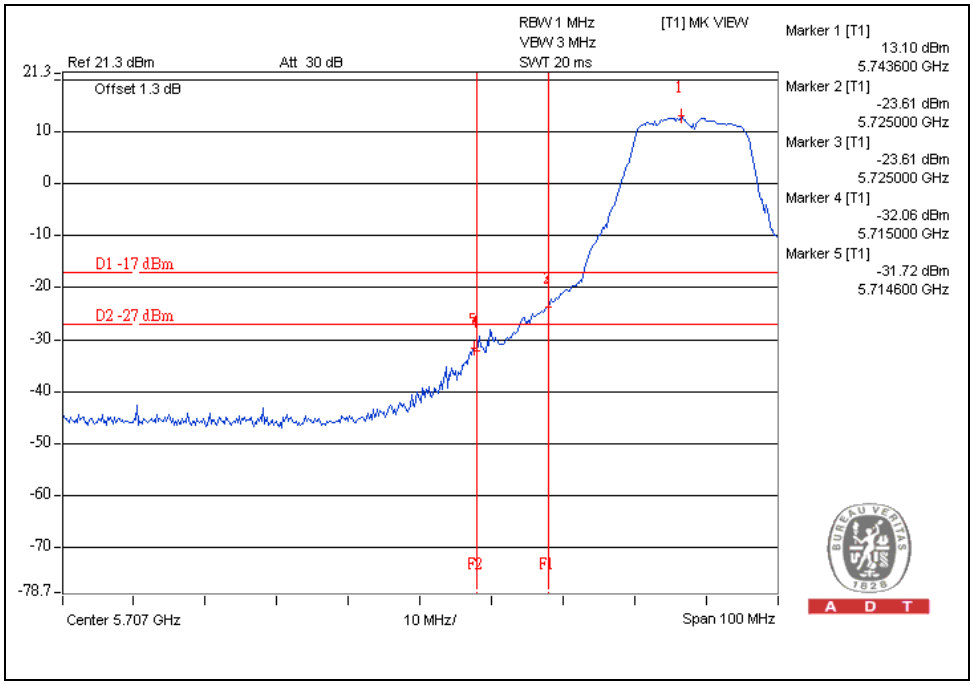


For 5.725 to 5.825GHz band:

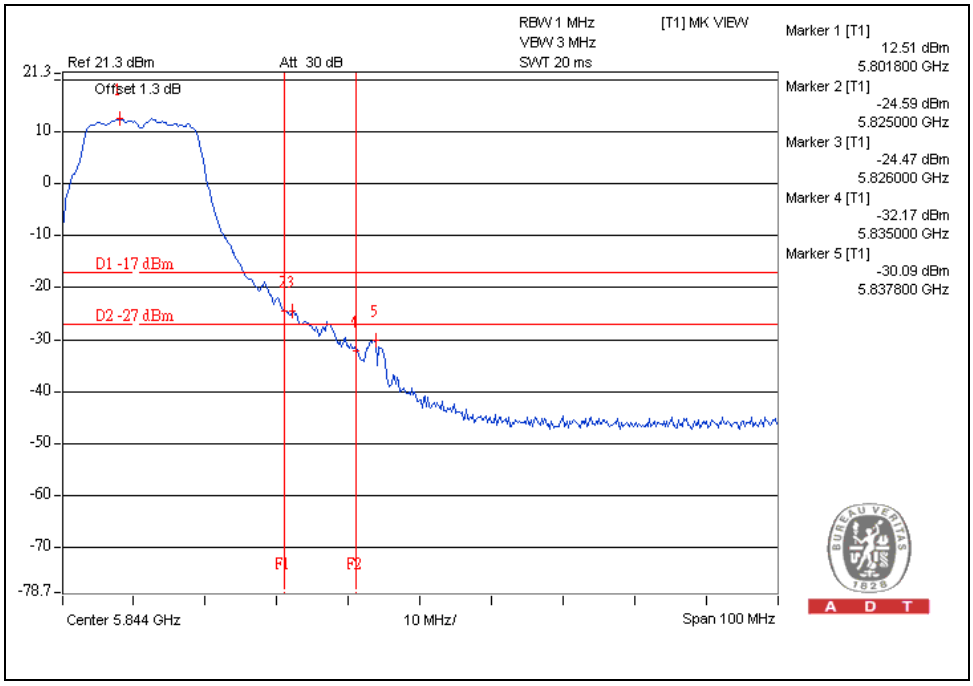
The spectrum plots (RBW=1MHz, VBW=3MHz) are attached on the following pages.

802.11a OFDM modulation

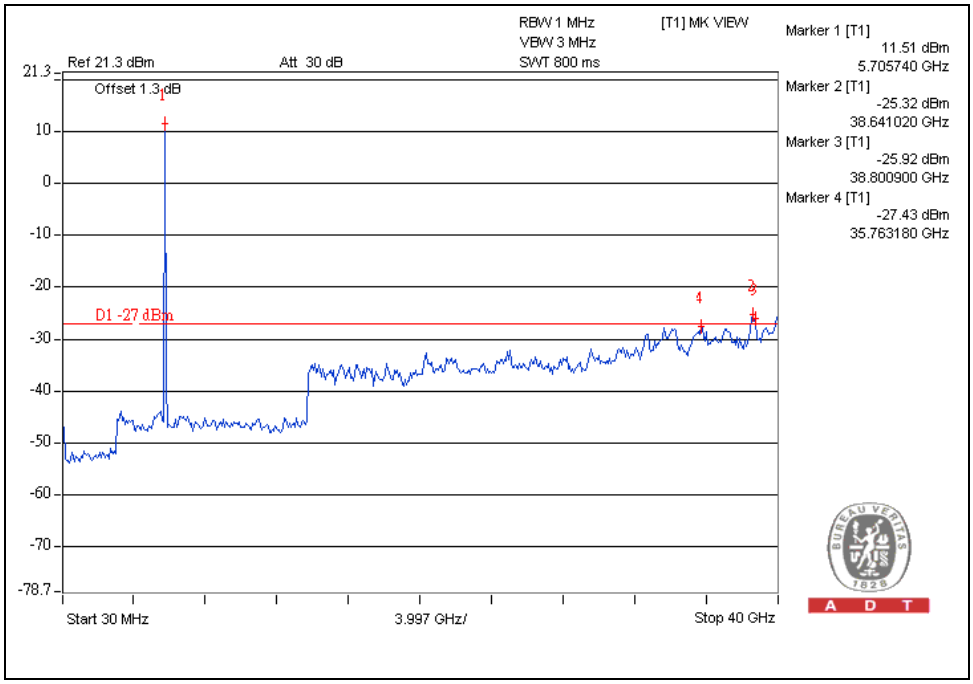
CH 20



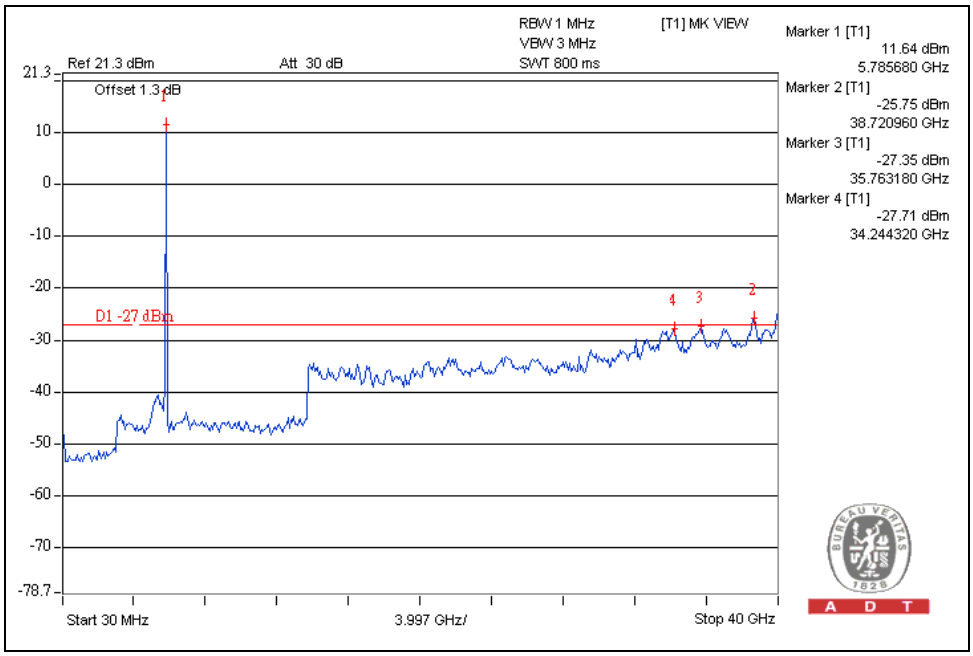
CH 23



CH 20


RBW 1 MHz
VBW 3 MHz
SWT 800 ms
[T1] MK VIEW
Ref 21.3 dBm
Att 30 dB
Offset 1.3 dB
D1 -27 dBm
21.3
10
0
-10
-20
-30
-40
-50
-60
-70
-78.7
Start 30 MHz
3.997 GHz/
Stop 40 GHz
Marker 1 [T1]
11.51 dBm
5.705740 GHz
Marker 2 [T1]
-25.32 dBm
38.641020 GHz
Marker 3 [T1]
-25.92 dBm
38.800900 GHz
Marker 4 [T1]
-27.43 dBm
35.763180 GHz

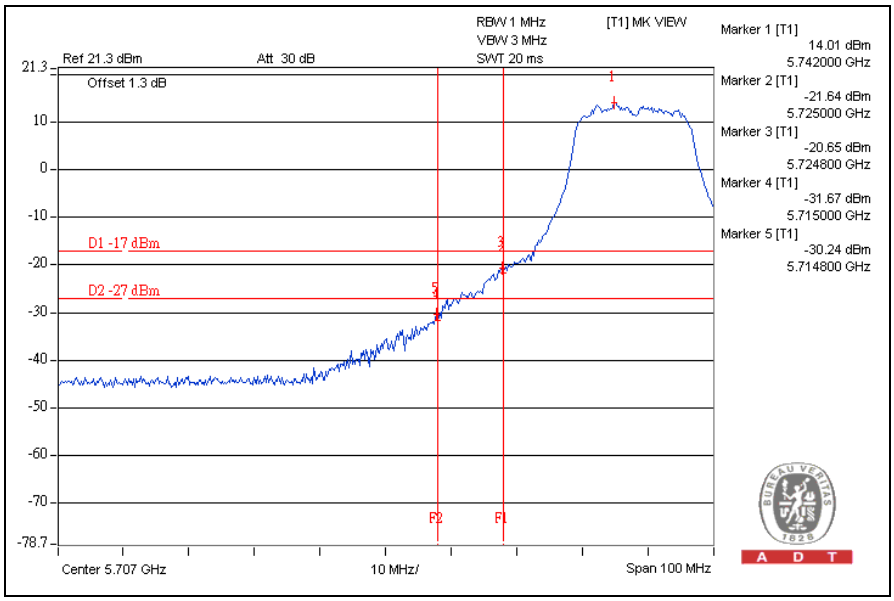
CH 23


RBW 1 MHz
VBW 3 MHz
SWT 800 ms
[T1] MK VIEW
Ref 21.3 dBm
Att 30 dB
Offset 1.3 dB
D1 -27 dBm
21.3
10
0
-10
-20
-30
-40
-50
-60
-70
-78.7
Start 30 MHz
3.997 GHz/
Stop 40 GHz
Marker 1 [T1]
11.64 dBm
5.785680 GHz
Marker 2 [T1]
-25.75 dBm
38.720960 GHz
Marker 3 [T1]
-27.35 dBm
35.763180 GHz
Marker 4 [T1]
-27.71 dBm
34.244320 GHz

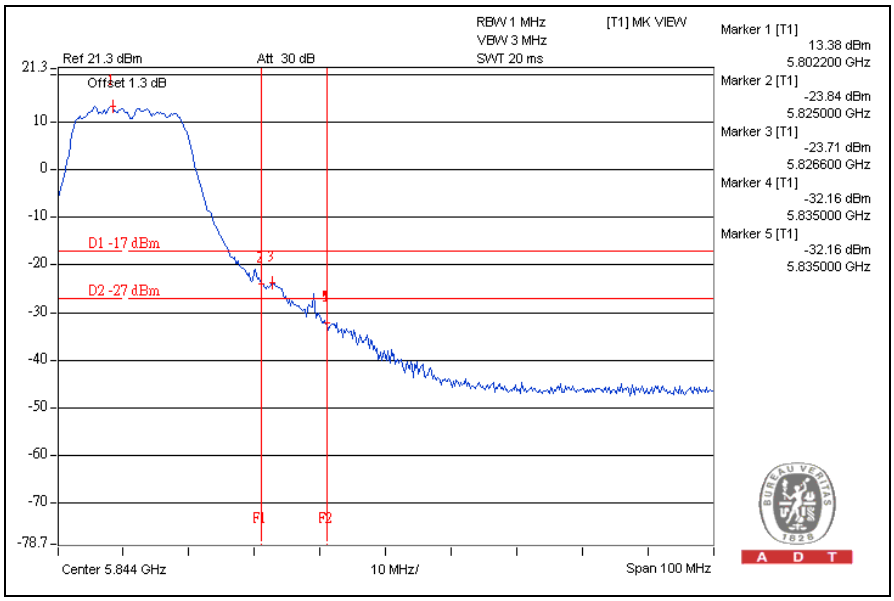
DRAFT 802.11n (20MHz) OFDM MODULATION:

For chain (0):

CH20

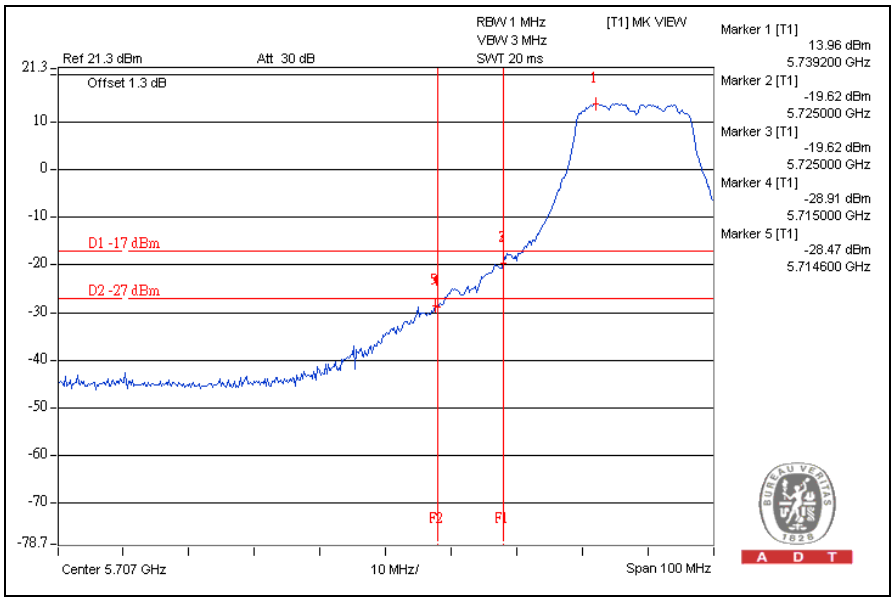


CH23

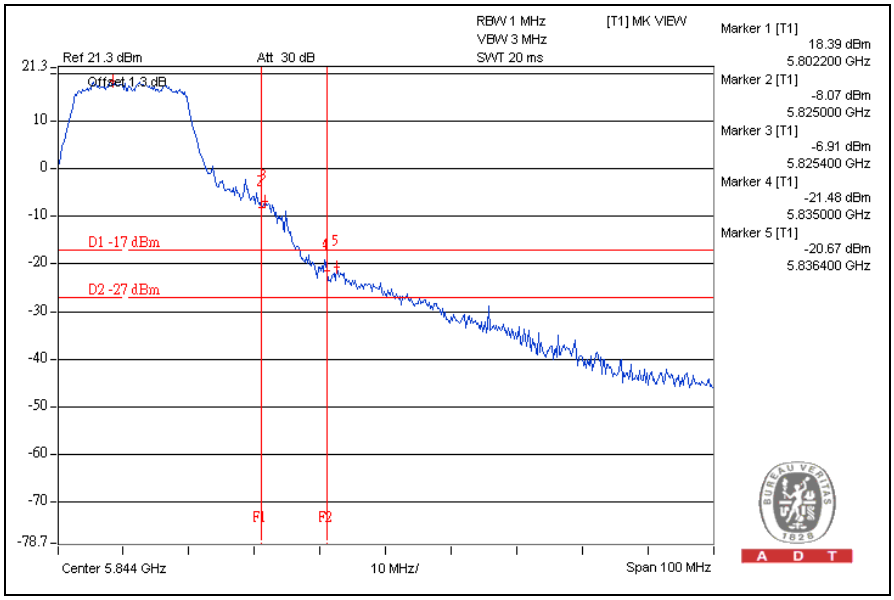


For chain (1):

CH20

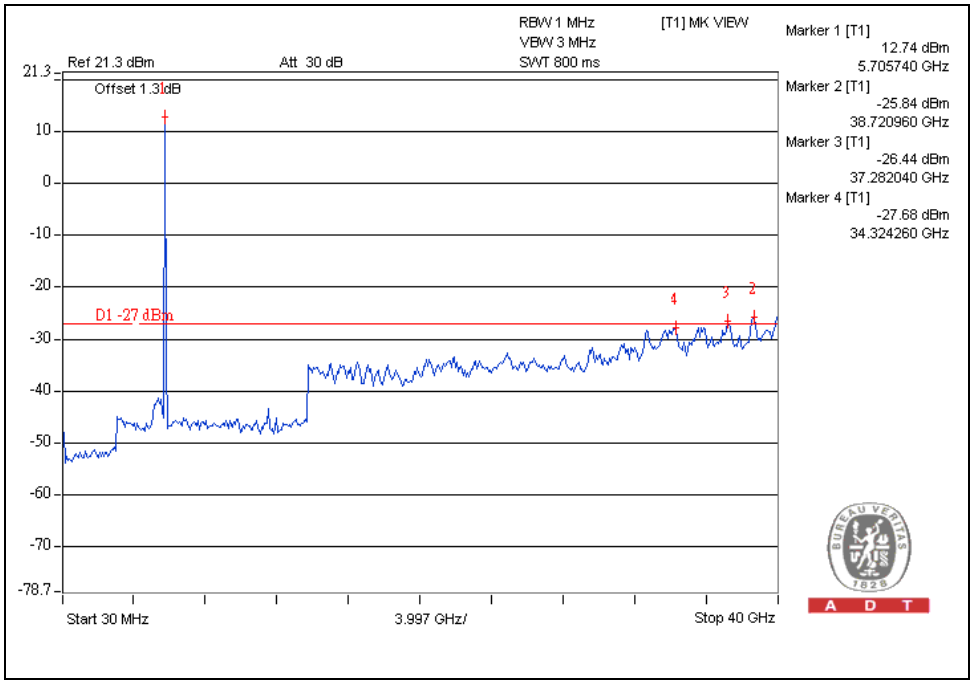


CH23

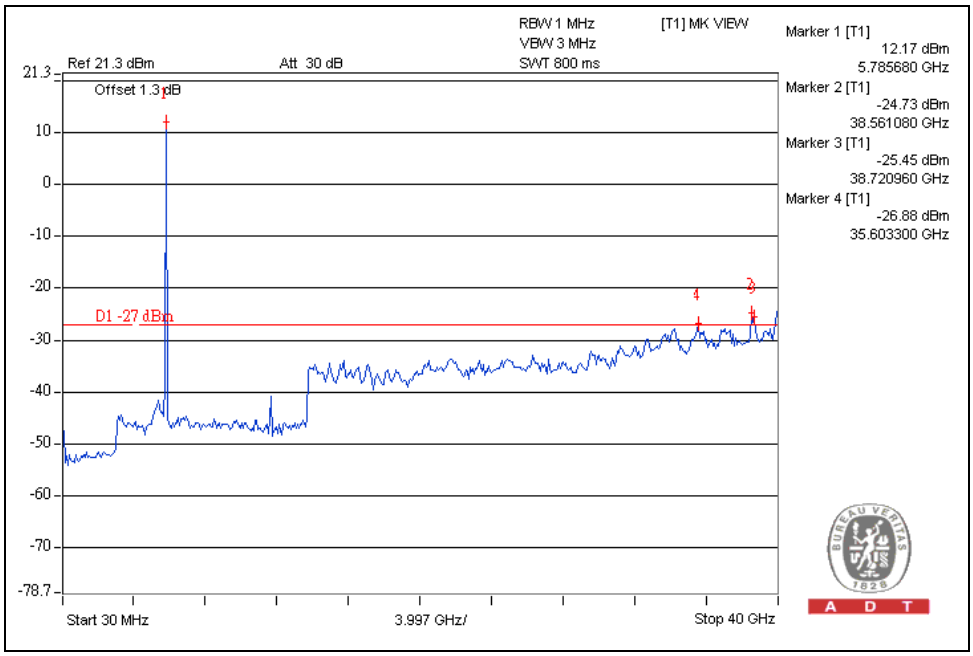


For chain (0):

CH20

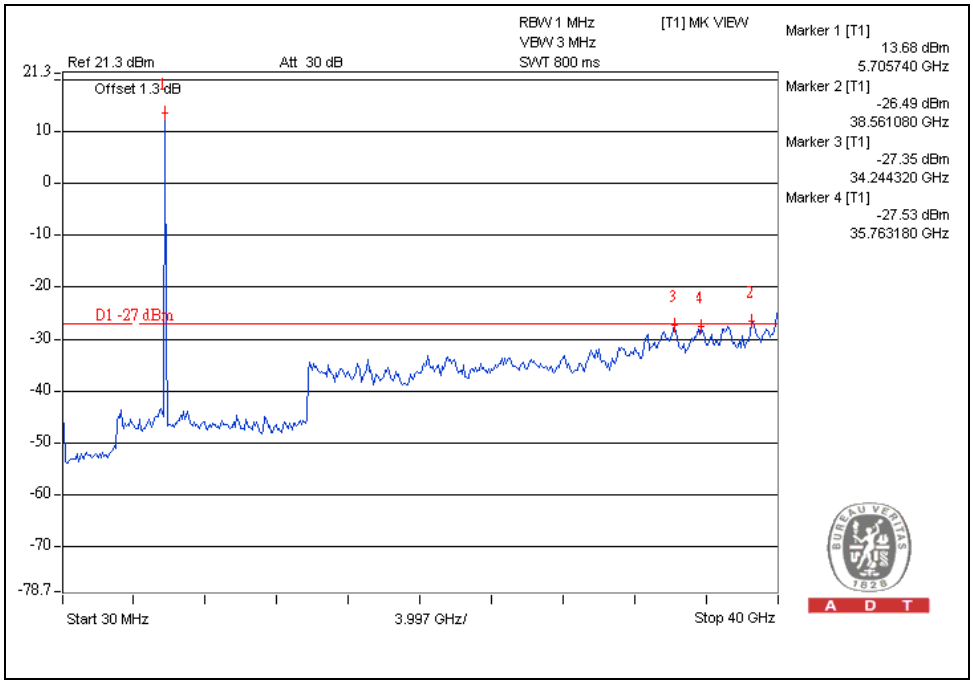


CH23

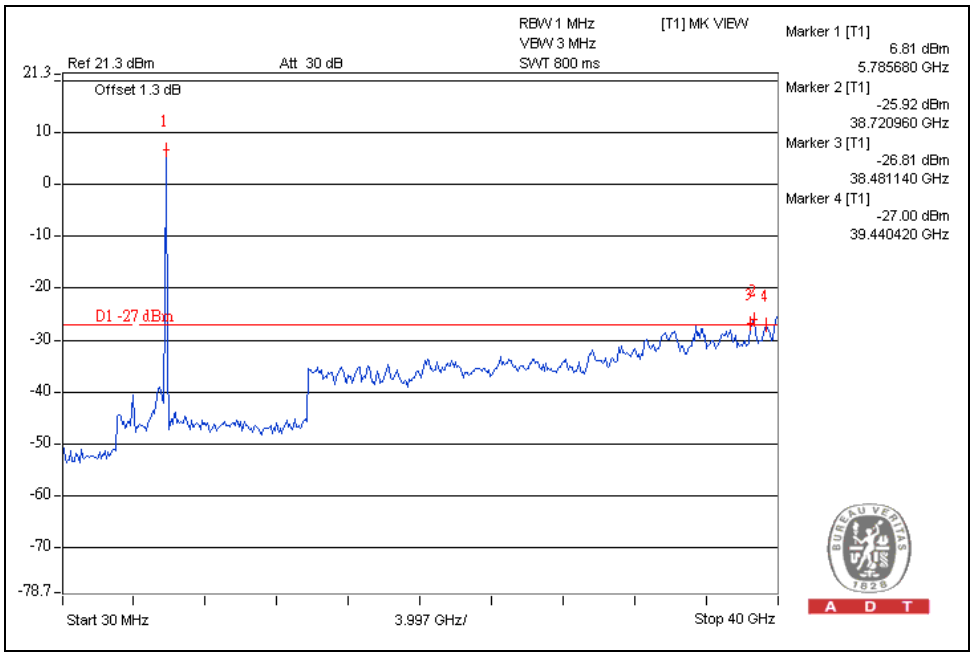


For chain (1):

CH20



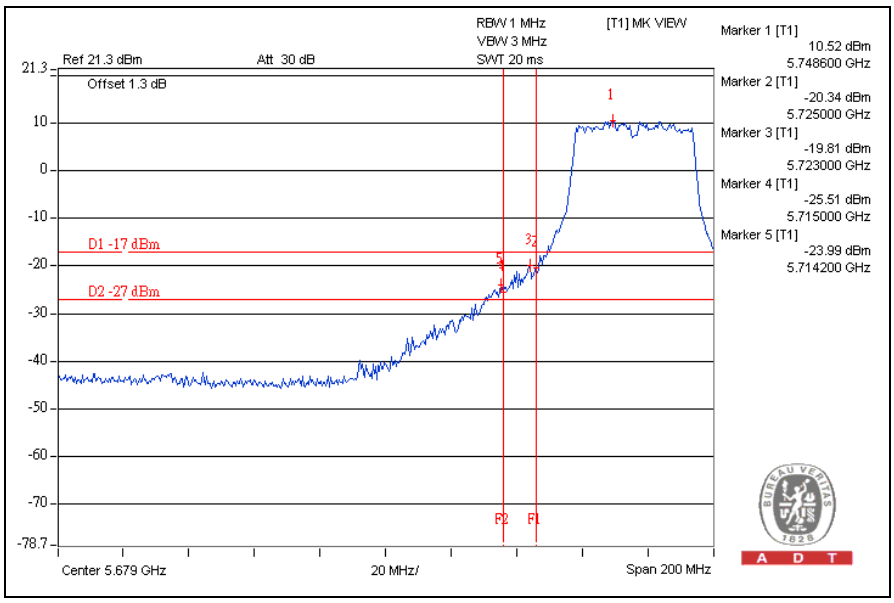
CH23



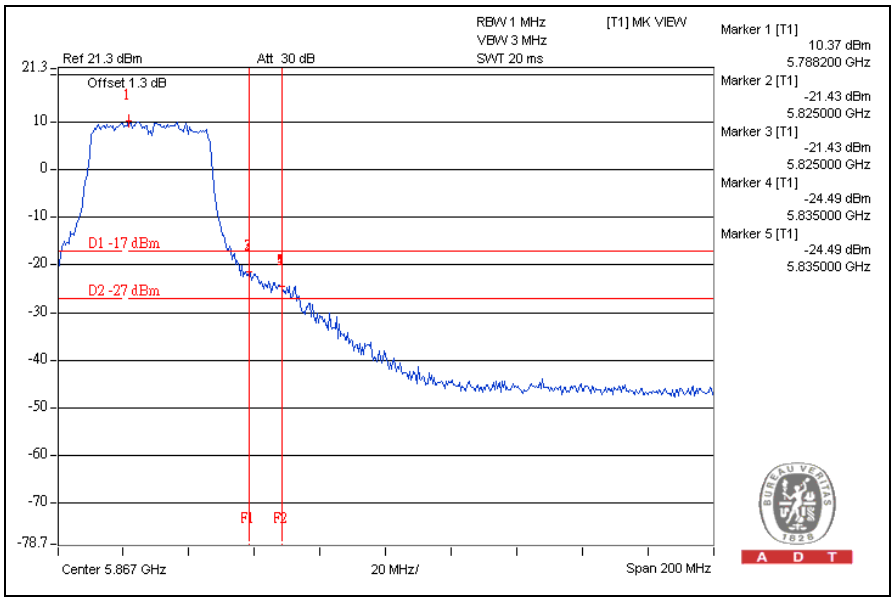
DRAFT 802.11n (40MHz) OFDM MODULATION:

For chain (0):

CH10

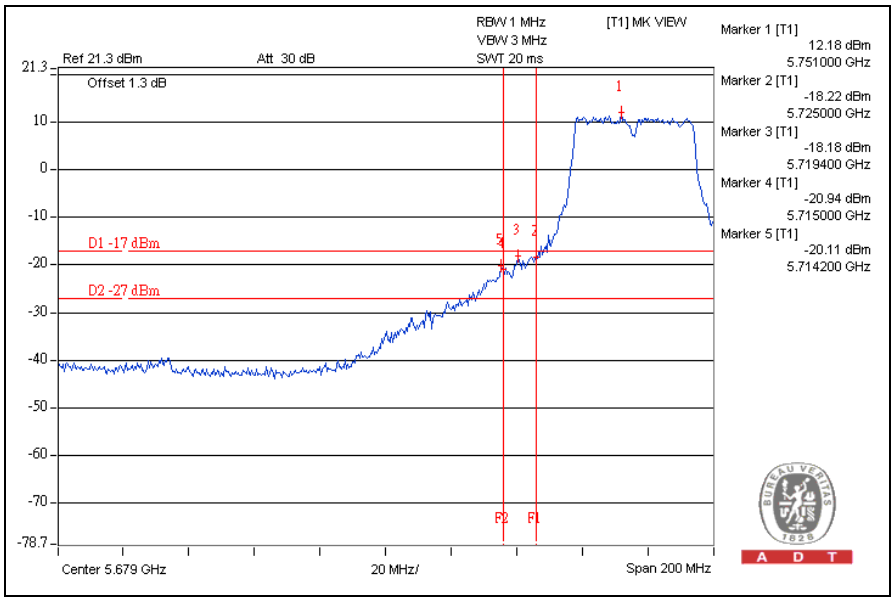


CH11

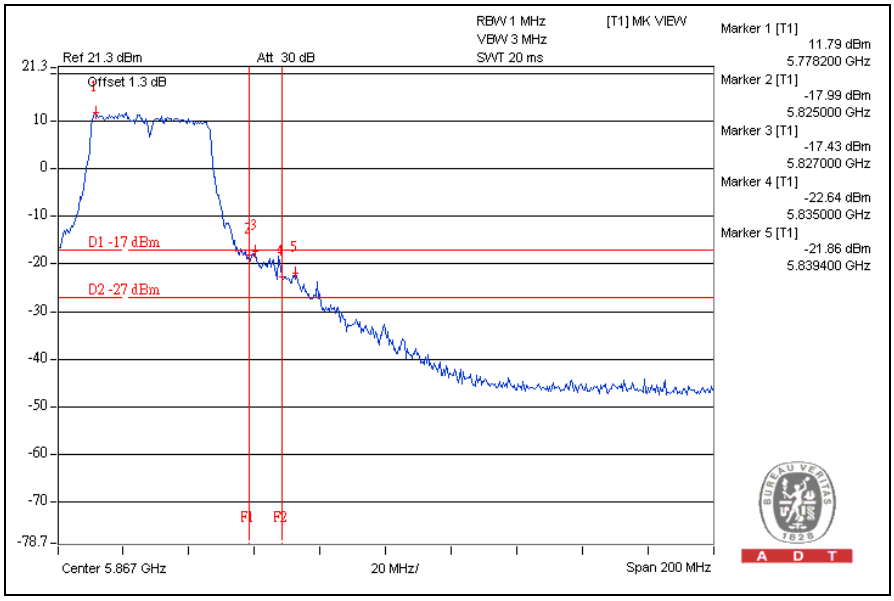


For chain (1):

CH10

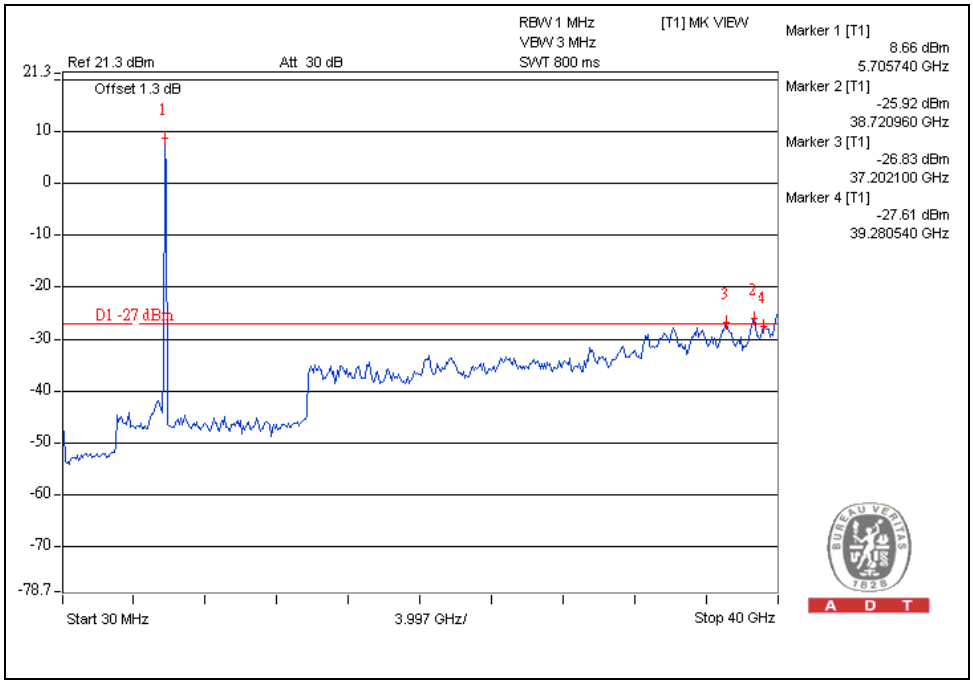


CH11

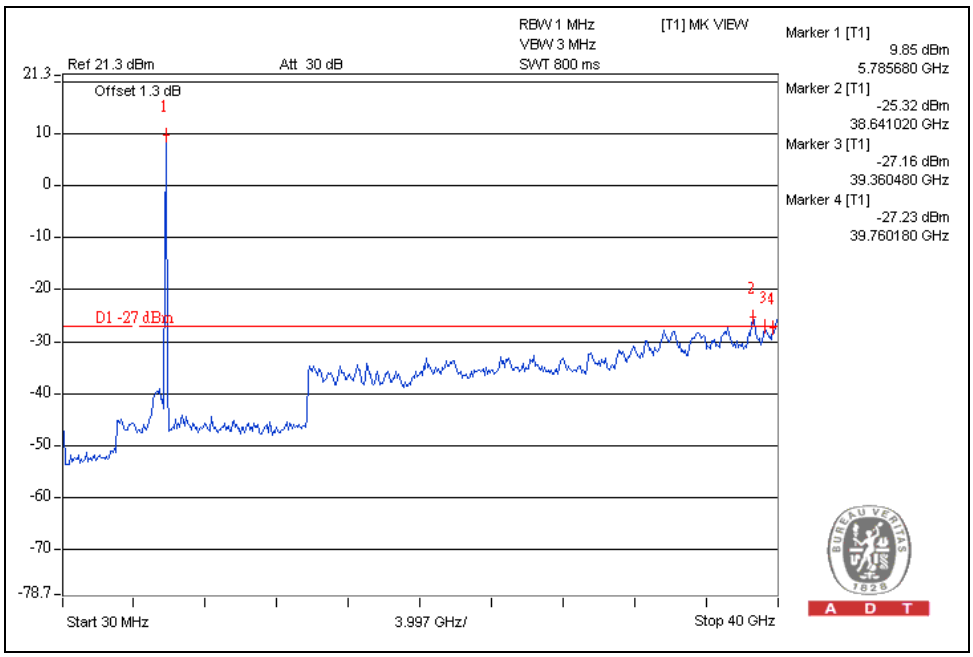


For chain (0):

CH10

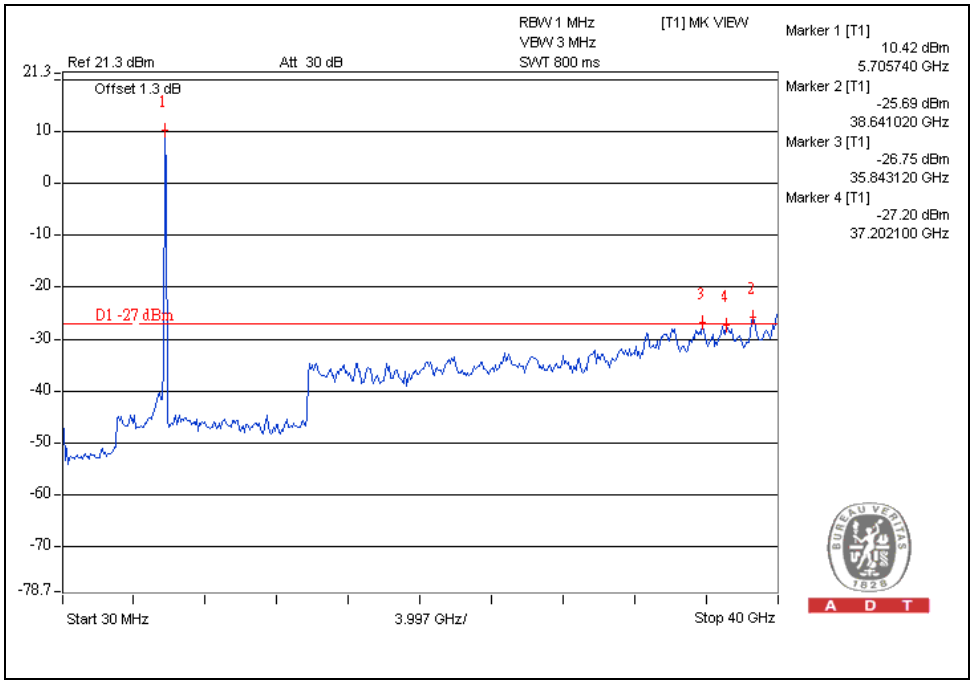


CH11

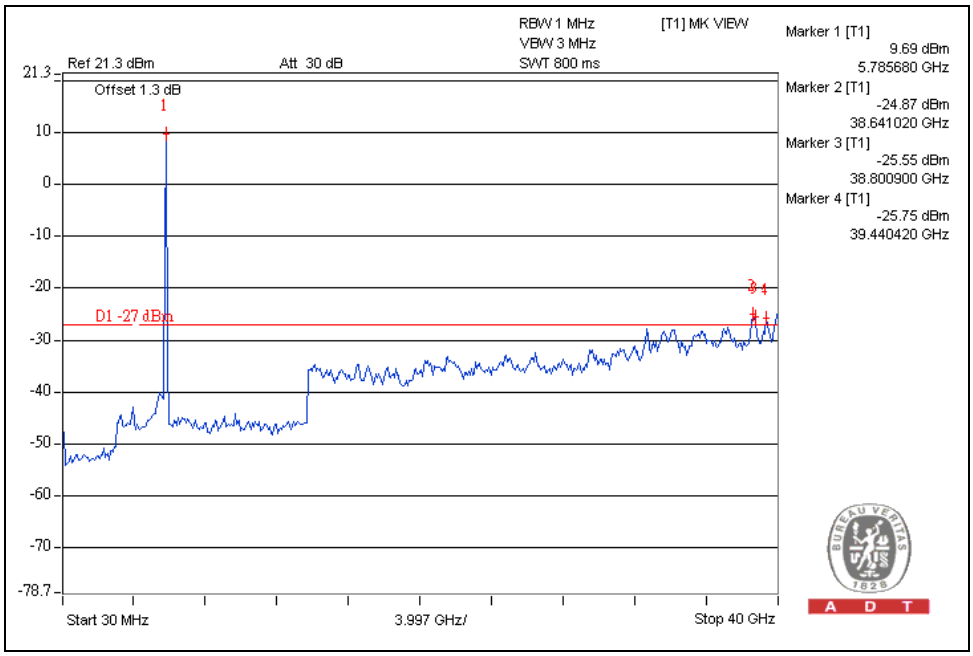


For chain (1):

CH10



CH11



4.8 ANTENNA REQUIREMENT

4.8.1 STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.407(a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.8.2 ANTENNA CONNECTED CONSTRUCTION

There are two antennas provided to this EUT, please refer to the following table:

Chain	Antenna Type	For 2.4GHz Gain (dBi)	For 5GHz Gain (dBi)				Antenna Connector
			5.15~5.25GHz	5.25~5.35GHz	5.47~5.725GHz	5.725~5.825GHz	
0	PCB Printed	0.29	-0.14	-0.86	0.21	0.14	NA
1	PCB Printed						

5. 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 by the following approval agencies according to ISO/IEC 17025.

USA	FCC, NVLAP
Germany	TUV Rheinland
Japan	VCCI
Norway	NEMKO
Canada	INDUSTRY CANADA , CSA
R.O.C.	TAF, BSMI, NCC
Netherlands	Telefication
Singapore	GOST-ASIA(MOU)
Russia	CERTIS(MOU)

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: 886-2-26052943

Hsin Chu EMC/RF Lab:
Tel: 886-3-5935343
Fax: 886-3-5935342

Hwa Ya EMC/RF/Safety Telecom Lab:
Tel: 886-3-3183232
Fax: 886-3-3185050

Web Site: www.adt.com.tw

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

6. APPENDIX-A- MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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