

Test Equipment

Name of Equipment	Model	Serial No.	Due Date
Spectrum Analyzer	FSIQ26	100009/027	2004-08-19
	E4440A(3Hz~26.5GHz)	MY41000236	2003-11-25
	E4440A(3Hz~26.5GHz)	MY41000233	2003-11-25
Signal Generator	SMIQ03B(300KHz~3.3GHz)	83824/021	2004-01-20
	SMR20(1GHz~20GHz)	835197/030	2004-01-20
Power Meter	E4419B	GB41293846	2003-11-26
Power Sensor	8481B(1mW~25W)	3318A10325	2003-09-26
	8485A(1uW~100mW)	3318A19924	2003-09-26
Amplifier	5S1G4(0.8~4.2GHz, 5W)	304866	2003-11-26
Pre-Amplifier	8449B(1~26.5GHz, 30dB)	3008A00691	2004-01-21
Communication test set	8960	GB42230535	2003-12-02
	8960	GB42360886	2004-01-09
Antenna Master	MA0001	ANT0967	Not Required
Controller	HD100	100/756	Not Required
Environmental Chamber	SH-241	92000548	2003-12-12
	PL-4S	13005454	2003-12-12
Horn Antenna	HF906(1GHz~18GHz)	360306/011	2004-02-10
	HF906(1GHz~18GHz)	100134	2004-03-31
Dipole Antenna	3121C-DB4	9007-587	2003-11-08
	3121C-DB4	9007-588	2004-03-21
Receive Antenna	HO040	353255/020	2004-04-08
Attenuator	8494A(0~11dB)	3308A31997	2004-01-20
	8496A(0~110dB)	3308A14426	2004-01-20
Directional Coupler	4278-311-2(0.1~1GHz)	B3679637	2004-01-22
	4278-111-2(1~2GHz)	B103DC8722	2004-01-22
High Pass Filter	WHK1.0/15G-10SS(1~15GHz)	1	Not Required
	WHV1.0/15G-10SS(1~15GHz)	1	Not Required
	WHK/3.5/18G-10SS(3.5~18GHz)	3	Not Required
	WHK/3.5/18G-10SS(3.5~18GHz)	4	Not Required
Shielded Semi-Anechoic Chamber	RF0002	ANT0001	2004-01-21

FCC ID : A3LSGHX426

Effective Radiated Power (E.R.P.)

Supply Voltage: 3.7 VDC

Modulation: GSM850

■ Reference level

Frequency (MHz)	Output (dBm)	Polarization	S/A (dBm)	P/M (dBm)	Ant gain (dBi)	Ref level (dBm)
836.60	33.00	H	-4.94	-5.12	0.00	-5.12
		V	-3.98	-4.16	0.00	-4.16

■ Result

Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Azimuth (angle)	ERP (dBm)	ERP (W)	Battery
824.20	-4.11	H2	177	34.01	2.518	Standard
836.60	-4.70	H2	177	33.42	2.198	Standard
848.80	-5.92	H2	176	32.20	1.660	Standard

Note : Standard batteries are the only battery options for this phone

FCC ID : A3LSGHX426

Equivalent Isotropic Radiated Power (E.I.R.P.)

Supply Voltage: 3.7 VDC

Modulation: PCS GSM

■ Reference level

Frequency (MHz)	Output (dBm)	Polarization	S/A (dBm)	Ant gain (dBi)	Ref level (dBm)
1880.00	27.00	H	-12.27	8.18	-20.45
		V	-12.30	8.18	-20.48

■ Result

Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Azimuth (angle)	EIRP (dBm)	EIRP (W)	Battery
1850.20	-16.94	H1	131	30.51	1.125	Standard
1880.00	-17.40	H1	120	30.05	1.012	Standard
1909.80	-17.44	H1	118	30.01	1.002	Standard

Note : Standard batteries are the only battery options for this phone

FCC ID : A3LSGHX426

Field Strength of SPURIOUS Radiation

Operating Frequency : 824.20MHz (Low), 836.60MHz (Middle), 848.80MHz (High)

Measured Output Power : 34.01 dBm = 2.518 W

Modulation Signal : GSM850

Limit : $43+10\log_{10}(W)$ = 47.01 dBc

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
128	2	1648.40	-37.73	H2	63.88
	3	2472.60	-52.07	H2	71.33
	4	3296.80	-58.53	H2	74.47
	5	4121.00	-59.09	V	71.62
	6	4945.20	-71.84	H1	82.77
	7	5769.40	-	-	-
	8	6593.60	-	-	-
190	2	1673.20	-41.55	V	65.95
	3	2509.80	-57.63	H2	76.01
	4	3346.40	-61.79	H1	77.93
	5	4183.00	-60.11	V	72.78
	6	5019.60	-71.86	H2	82.78
	7	5856.20	-	-	-
	8	6692.80	-	-	-
251	2	1697.60	-43.97	H1	68.25
	3	2546.40	-56.24	V	75.09
	4	3395.20	-61.23	H2	77.59
	5	4244.00	-56.21	H2	68.60
	6	5092.80	-72.46	H2	82.82
	7	5941.60	-	-	-
	8	6790.40	-	-	-

FCC ID : A3LSGHX426

Field Strength of SPURIOUS Radiation

Operating Frequency : 1850.2 MHz

Measured Output Power : 30.51 dBm = 1.125 W

Modulation Signal : PCS GSM

Limit : $43+10\log_{10}(W)$ = 43.51 dBc

■ Result

Channel	Harmonic	Frequency (MHz)	From EUT Tested level (dBm)	POL (H/V)	Result (dBc)
512	2	3700.40	-51.20	H2	58.75
	3	5550.60	-64.66	V	67.31
	4	7400.80	-70.33	V	69.73
	5	9251.00	-	-	-
	6	11101.20	-	-	-
	7	12951.40	-	-	-
	8	14801.60	-	-	-
661	2	3760.00	-52.61	H2	59.78
	3	5640.00	-59.30	H2	61.97
	4	7520.00	-76.22	V	75.82
	5	9400.00	-	-	-
	6	11280.00	-	-	-
	7	13160.00	-	-	-
	8	15040.00	-	-	-
810	2	3819.60	-53.24	H2	60.75
	3	5729.40	-58.42	V	61.03
	4	7639.20	-77.17	H1	75.84
	5	9549.00	-	-	-
	6	11458.80	-	-	-
	7	13368.60	-	-	-
	8	15278.40	-	-	-

Radiated Spurious & Harmonic Conversion Table

Tx Cable loss
 Tx Horn Ant Gain
 Rx Cable loss + HPF Insertion loss + Attenuator
 Pre-Amp gain
 Air loss
 Tested Level from EUT
 = + + -
 = ERP+2.14 -

Date ; 2003 . 09 . 01 . ~ 09 . 03 .

Test Engineer : E.H. Jung

FCC ID : A3LSGHX426 Mode : GSM850 ERP : 34.01

CH	Har	Frequency (MHz)	Tx CL (dB)	Horn Gain (dB)	Tx Level @ (S/G 0dBm)	Tested Level EUT : H (dBm)	Tested Level EUT : V (dBm)	Amplitude of Emission EUT : H (dBm)	Amplitude of Emission EUT : V (dBm)	Result EUT : H (dBc)	Result EUT : V (dBc)
128	2	1648.40	7.11	7.21	0.10	-37.73	-39.14	-27.73	-27.89	63.88	64.04
	3	2472.60	8.95	8.87	-0.08	-52.07	-56.24	-35.18	-38.89	71.33	75.04
	4	3296.80	10.50	8.43	-2.07	-58.53	-61.75	-38.32	-41.72	74.47	77.87
	5	4121.00	11.66	9.89	-1.77	-59.34	-59.09	-36.25	-35.47	72.40	71.62
	6	4945.20	13.00	10.33	-2.67	-71.84	-73.03	-46.62	-47.82	82.77	83.97
	7	5769.40	13.98	10.86	-3.12	-	-	-	-	-	-
190	2	1673.20	7.18	7.21	0.03	-40.68	-41.55	-29.98	-29.80	66.13	65.95
	3	2509.80	9.06	8.87	-0.19	-57.63	-58.99	-39.86	-40.89	76.01	77.04
	4	3346.40	10.48	8.43	-2.05	-61.79	-63.05	-41.78	-42.76	77.93	78.91
	5	4183.00	11.74	10.20	-1.54	-60.09	-60.11	-36.67	-36.63	72.82	72.78
	6	5019.60	13.29	10.34	-2.95	-71.86	-73.04	-46.63	-47.45	82.78	83.60
	7	5856.20	14.15	10.86	-3.29	-	-	-	-	-	-
251	2	1697.60	7.22	7.21	-0.01	-43.97	-45.53	-32.10	-32.54	68.25	68.69
	3	2546.40	9.13	8.87	-0.26	-57.73	-56.24	-40.87	-38.94	77.02	75.09
	4	3395.20	10.50	8.54	-1.96	-61.23	-62.93	-41.44	-43.68	77.59	79.83
	5	4244.00	11.67	10.20	-1.47	-56.21	-59.05	-32.45	-34.83	68.60	70.98
	6	5092.80	13.38	10.39	-2.99	-72.46	-73.44	-46.67	-47.87	82.82	84.02
	7	5941.60	14.35	10.86	-3.49	-	-	-	-	-	-

Radiated Spurious & Harmonic Conversion Table

FCC ID : A3LSGHX426 Mode : GSM1900 EIRP : 30.51

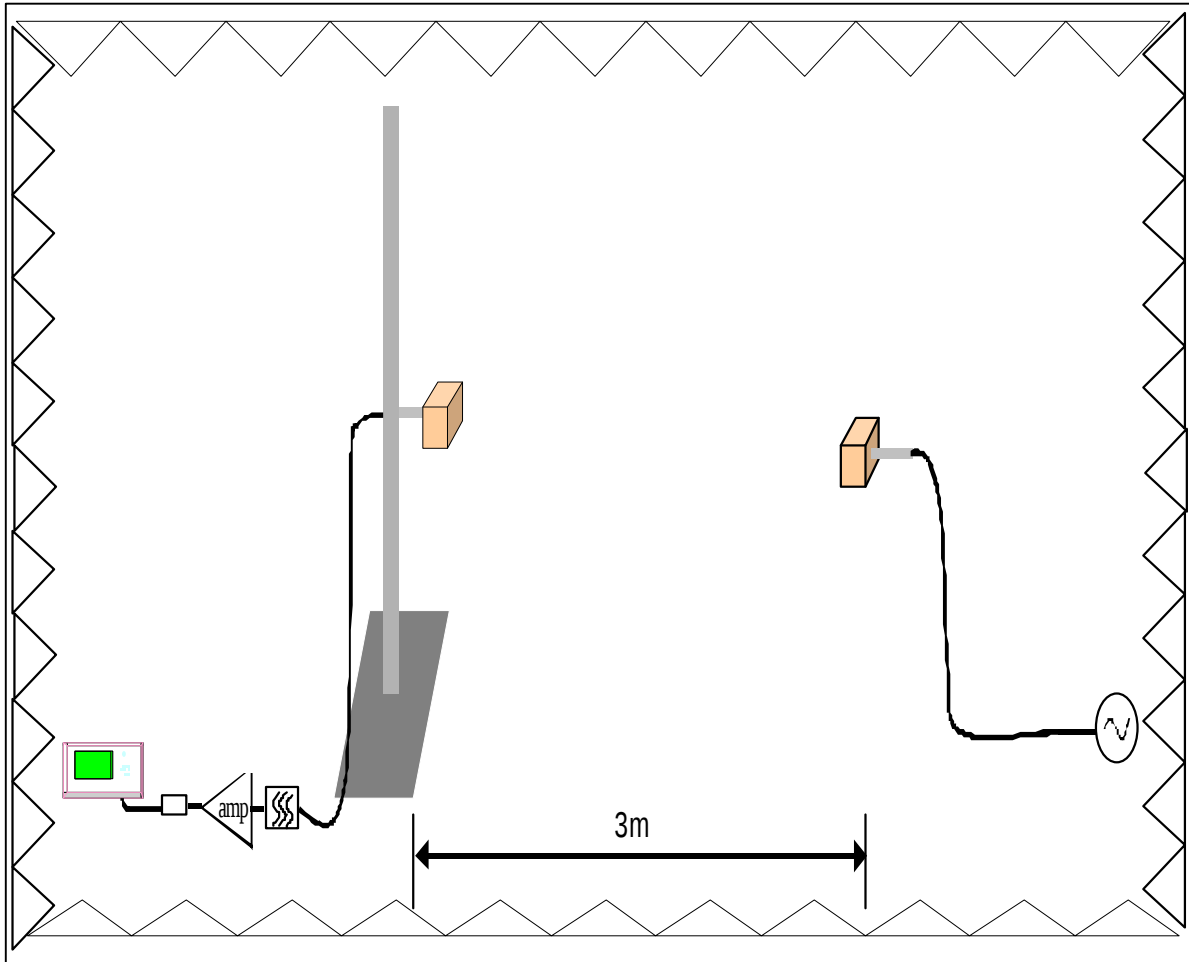
Date : 2003 . 09 . 01. ~ 09 . 03 .

Test Engineer : E.H. Jung

Tx Cable loss
 Tx Horn Ant Gain
 Rx Cable loss + HPF Insertion loss + Attenuator
 Pre-Amp gain
 Air loss
 Tested Level from EUT
 = + + -
 = EIRP -

CH	Har	Frequency (MHz)	Tx CL (dB)	Horn Gain (dB)	Tx Level @ (S/G 10dBm)	Tested Level EUT : H (dBm)	Tested Level EUT : V (dBm)	Amplitude of Emission EUT : H (dBm)	Amplitude of Emission EUT : V (dBm)	Result EUT : H (dBc)	Result EUT : V (dBc)
512	2	3700.40	11.14	8.87	7.73	-51.20	-53.63	-28.24	-30.49	58.75	61.00
	3	5550.60	13.91	10.60	6.69	-64.90	-64.66	-36.85	-36.80	67.36	67.31
	4	7400.80	16.68	10.83	4.15	-77.05	-70.33	-44.78	-39.22	75.29	69.73
	5	9251.00	19.37	11.56	2.19	-	-	-	-	-	-
	6	11101.20	22.51	12.79	0.28	-	-	-	-	-	-
	7	12951.40	22.99	12.66	-0.33	-	-	-	-	-	-
	8	14801.60	24.52	12.69	-1.83	-	-	-	-	-	-
661	2	3760.00	11.13	8.98	7.85	-52.61	-54.14	-29.27	-30.71	59.78	61.22
	3	5640.00	14.10	10.60	6.50	-59.30	-60.61	-31.46	-33.02	61.97	63.53
	4	7520.00	17.05	10.83	3.78	-77.73	-76.23	-45.86	-45.31	76.37	75.82
	5	9400.00	19.61	11.60	1.99	-	-	-	-	-	-
	6	11280.00	22.92	12.93	0.01	-	-	-	-	-	-
	7	13160.00	23.62	12.64	-0.98	-	-	-	-	-	-
	8	15040.00	25.04	12.70	-2.34	-	-	-	-	-	-
810	2	3819.60	11.28	8.98	7.70	-53.24	-56.09	-30.24	-32.50	60.75	63.01
	3	5729.40	14.12	10.73	6.61	-58.51	-58.42	-31.14	-30.52	61.65	61.03
	4	7639.20	17.47	10.87	3.40	-77.17	-77.26	-45.33	-46.15	75.84	76.66
	5	9549.00	19.92	11.67	1.75	-	-	-	-	-	-
	6	11458.80	21.77	12.90	1.13	-	-	-	-	-	-
	7	13368.60	23.26	12.65	-0.61	-	-	-	-	-	-
	8	15278.40	25.17	12.73	-2.44	-	-	-	-	-	-

Radiated Spurious & Harmonic Configuration for Calibration



Tx Cable loss
Horn Ant Gain
Rx Cable loss + HPF Insertion loss + Attenuator
Pre-Amp gain
Air loss

FCC ID : A3LSGHX426

Frequency Stability (GSM850)

Operating Frequency : 836,600,000 Hz

Channel : 190

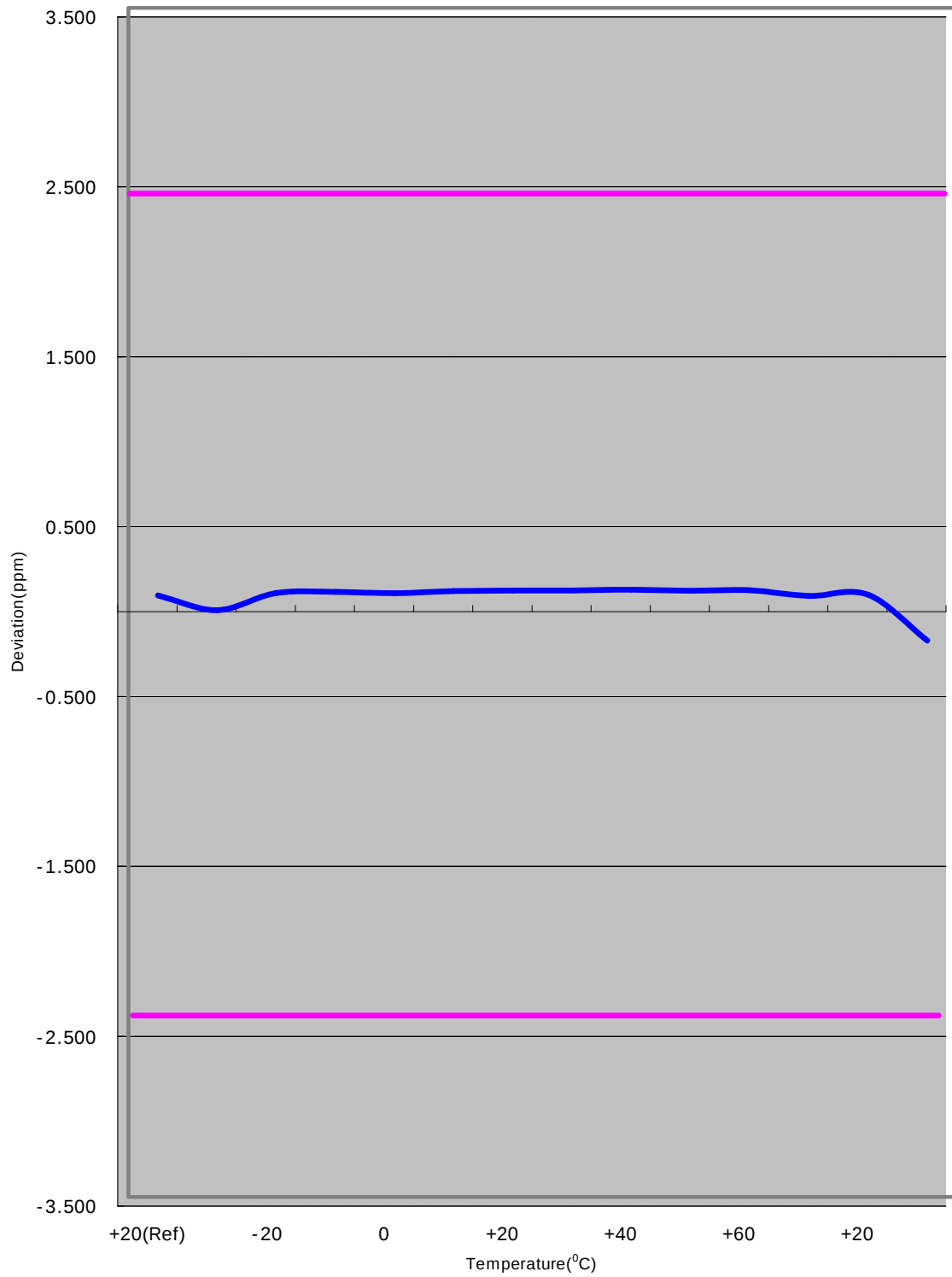
Reference voltage : 3.7VDC

Deviation Limit : $\pm 0.00025\%$ or 2.5ppm

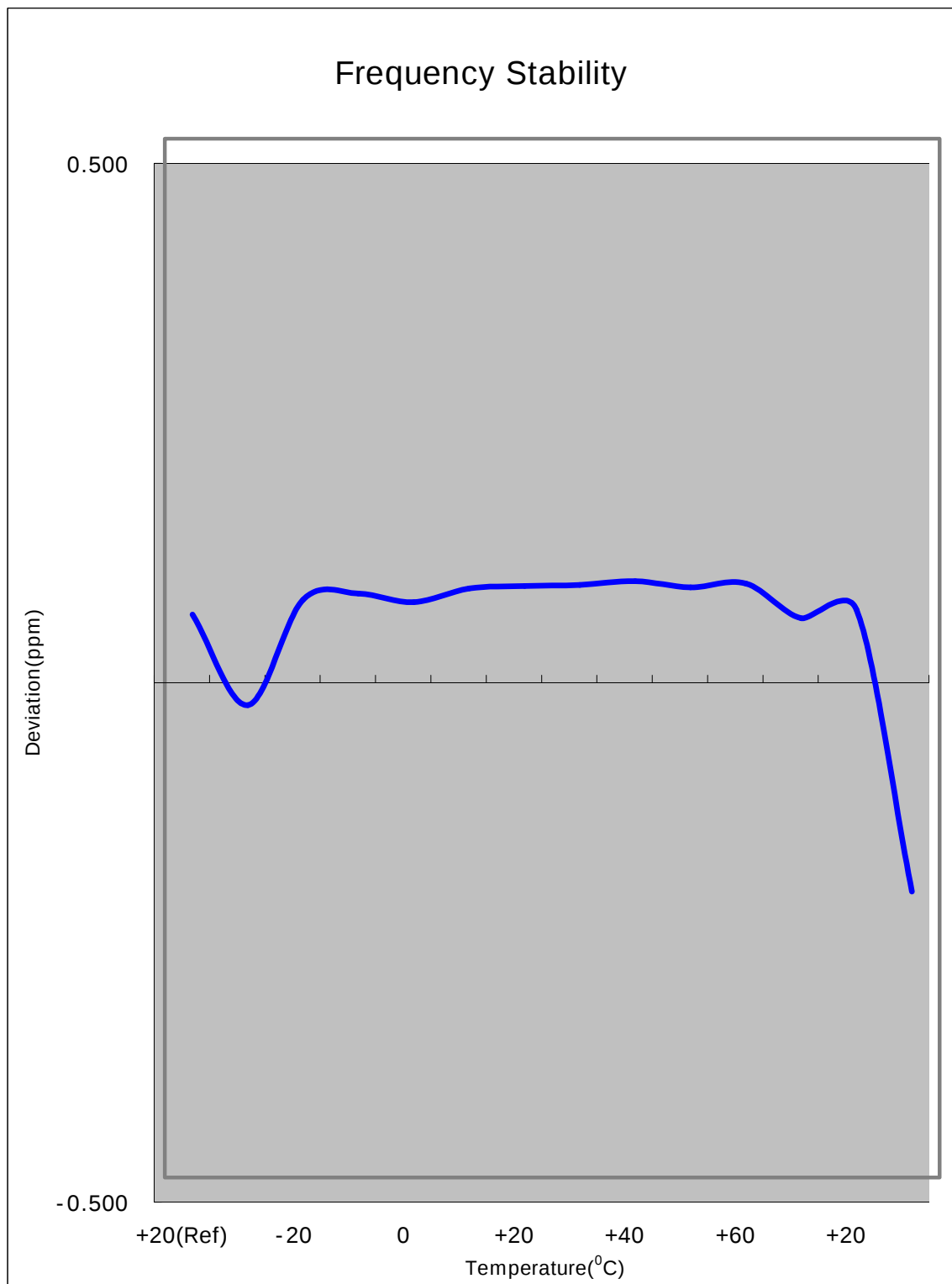
Voltage (%)	Power (V dc)	TEMP (OC)	Frequency error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	35.00	836,600,035	0.000004	0.042
100%		-30	-38.00	836,599,962	-0.000005	-0.045
100%		-20	47.00	836,600,047	0.000006	0.056
100%		-10	52.00	836,600,052	0.000006	0.062
100%		0	45.00	836,600,045	0.000005	0.054
100%		+10	56.00	836,600,056	0.000007	0.067
100%		+20	58.00	836,600,058	0.000007	0.069
100%		+30	59.00	836,600,059	0.000007	0.071
100%		+40	62.00	836,600,062	0.000007	0.074
100%		+50	57.00	836,600,057	0.000007	0.068
100%		+60	60.00	836,600,060	0.000007	0.072
85%	3.15	+20	32.00	836,600,032	0.000004	0.038
115%	4.26	+20	39.00	836,600,039	0.000005	0.047
Batt. Endpoint	3.08	+20	-188.00	836,599,812	-0.000022	-0.225

Note : The temperature is varied from -30°C to +60°C using an environmental chamber

Frequency Stability



Zoom In



FCC ID : A3LSGHX426

Frequency Stability (PCS GSM)

Operating Frequency : 1,880,000,000 Hz

Channel : 661

Reference voltage : 3.7VDC

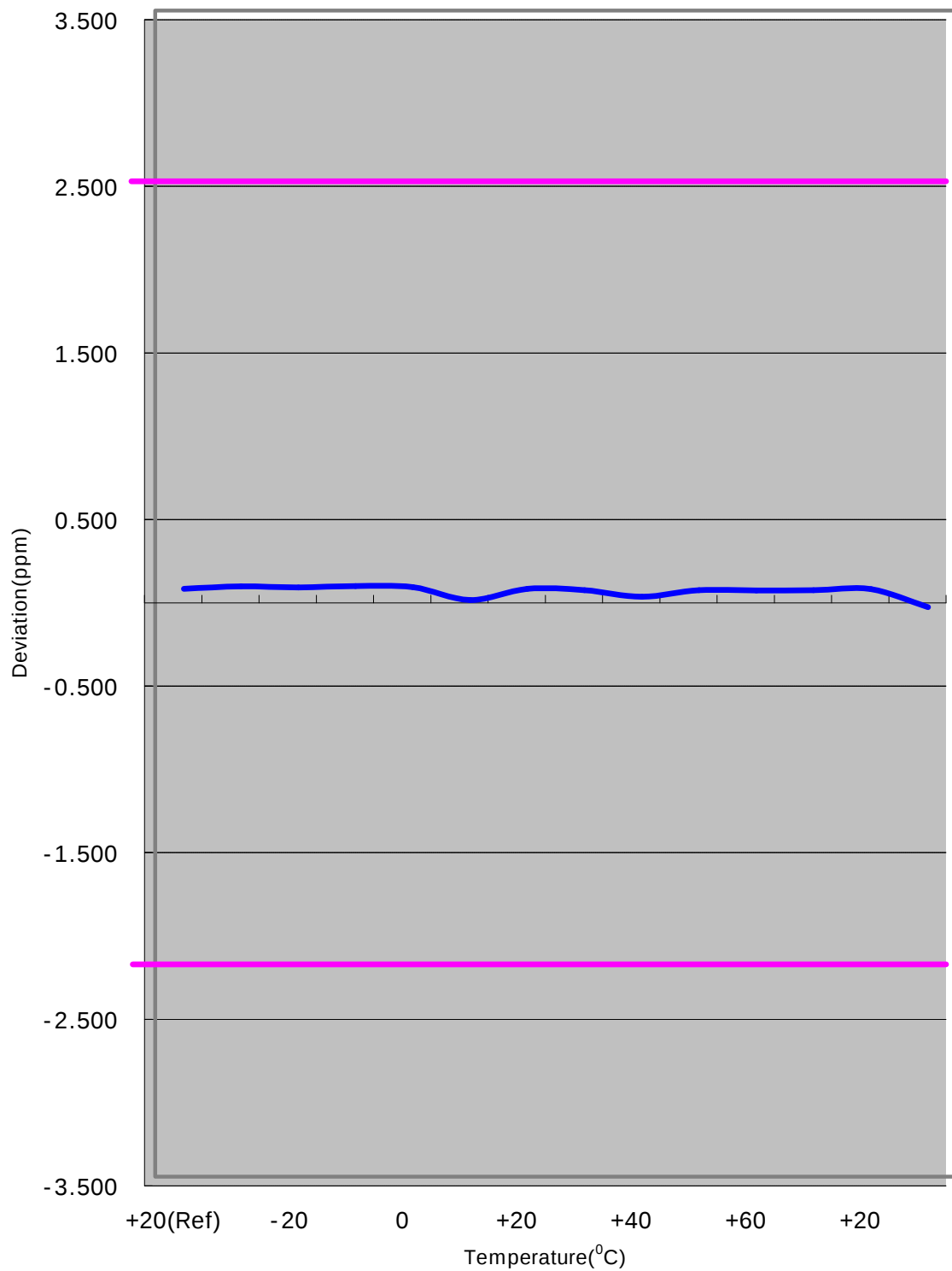
Deviation Limit : $\pm 0.00025\%$ or 2.5ppm

Voltage (%)	Power (V dc)	TEMP (OC)	Frequency error (Hz)	Frequency (Hz)	Deviation (%)	ppm
100%	3.70	+20(Ref)	55	1,880,000,055	0.000003	0.029
100%		-30	82	1,880,000,082	0.000004	0.044
100%		-20	69	1,880,000,069	0.000004	0.037
100%		-10	85	1,880,000,085	0.000005	0.045
100%		0	74	1,880,000,074	0.000004	0.039
100%		+10	-73	1,879,999,927	-0.000004	-0.039
100%		+20	55	1,880,000,055	0.000003	0.029
100%		+30	40	1,880,000,040	0.000002	0.021
100%		+40	-34	1,879,999,966	-0.000002	-0.018
100%		+50	38	1,880,000,038	0.000002	0.020
100%		+60	35	1,880,000,035	0.000002	0.019
85%	3.15	+20	38	1,880,000,038	0.000002	0.020
115%	4.26	+20	52	1,880,000,052	0.000003	0.028
Batt. Endpoint	3.08	+20	-152	1,879,999,848	-0.000008	-0.081

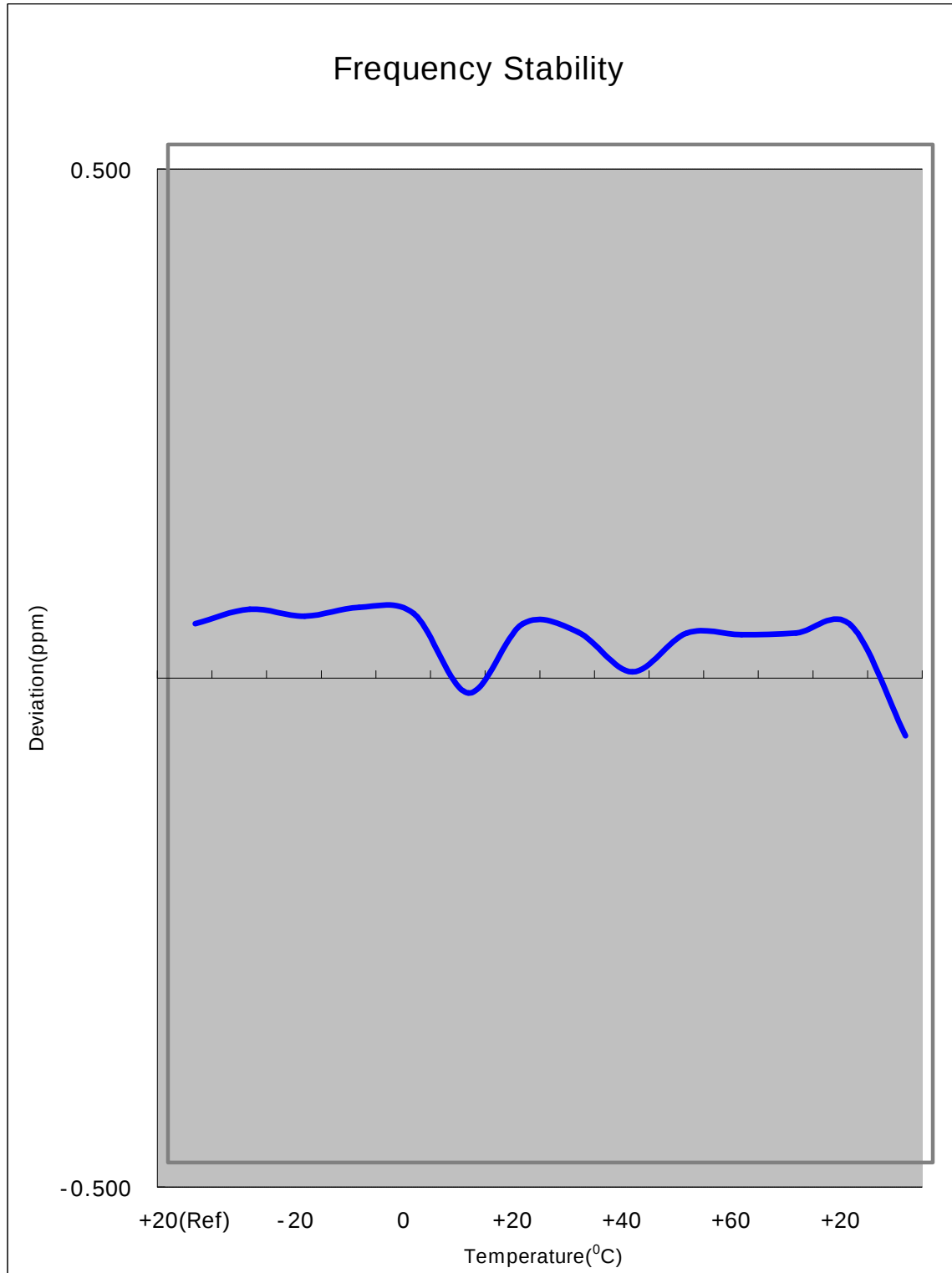
Note : The temperature is varied from -30°C to +60°C using an environmental chamber

The EUT is tested down to the battery end point.

Frequency Stability



Zoom In



Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.128

Mkr1 2.272 GHz

Ref 33 dBm

Atten 40 dB

-34.13 dBm

#Peak

Log

10

dB/

Offst

7.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

$E(f)$:

FTun

Swp

AC Coupled

Center Freq

1.25500000 GHz

Start Freq

10.00000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.0000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.128

Mkr1 7.412 GHz

Ref 30 dBm

Atten 40 dB

-30.37 dBm

#Peak

Log

10

dB/

Offst

7.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

$E(f)$:

FTun

Swp

1

Center Freq

6.25000000 GHz

Start Freq

2.50000000 GHz

Stop Freq

10.00000000 GHz

CF Step

750.0000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 6.250 GHz

Span 7.5 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 12.52 ms (601 pts)

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Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.190

Mkr1 2.446 GHz

Ref 33 dBm

Atten 40 dB

-33.68 dBm

#Peak

Log

10

dB/

Offst

7.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

£(f):

FTun

Swp

AC Coupled

Center Freq

1.25500000 GHz

Start Freq

10.0000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.190

Mkr1 3.050 GHz

Ref 30 dBm

Atten 40 dB

-30.42 dBm

#Peak

Log

10

dB/

Offst

7.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

£(f):

FTun

Swp

1

Center Freq

6.25000000 GHz

Start Freq

2.50000000 GHz

Stop Freq

10.0000000 GHz

CF Step

750.000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 6.250 GHz

Span 7.5 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 12.52 ms (601 pts)

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Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.251

Mkr1 1.529 GHz

Ref 33 dBm

Atten 40 dB

-33.88 dBm

#Peak

Log

10

dB/

Offst

7.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

$E(f)$:

FTun

Swp

AC Coupled

Center Freq

1.25500000 GHz

Start Freq

10.00000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.0000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 1.255 GHz

Span 2.49 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.251

Mkr1 6.812 GHz

Ref 30 dBm

Atten 40 dB

-30.18 dBm

#Peak

Log

10

dB/

Offst

7.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

$E(f)$:

FTun

Swp

Center Freq

6.25000000 GHz

Start Freq

2.50000000 GHz

Stop Freq

10.00000000 GHz

CF Step

750.0000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Center 6.250 GHz

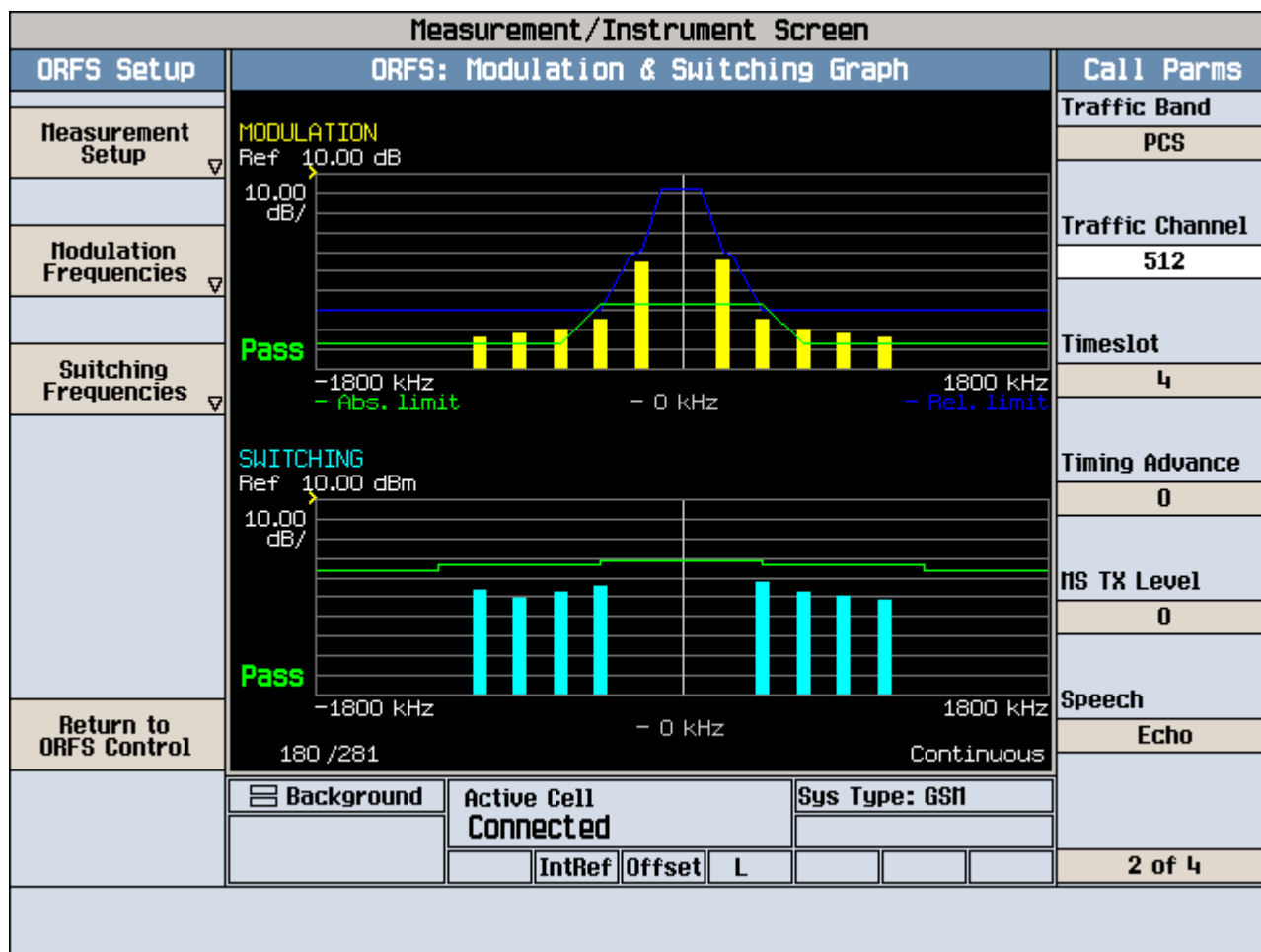
Span 7.5 GHz

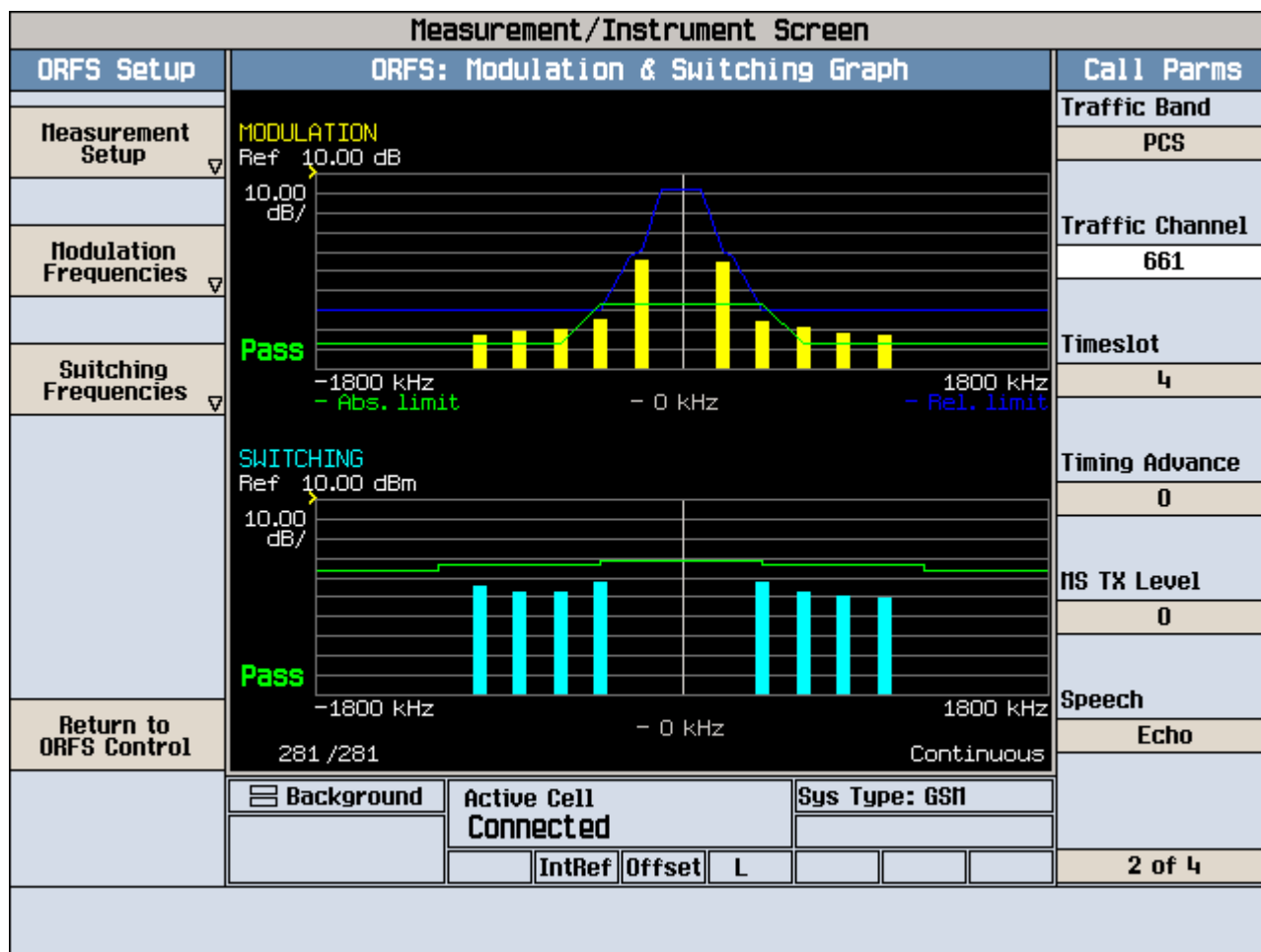
#Res BW 1 MHz

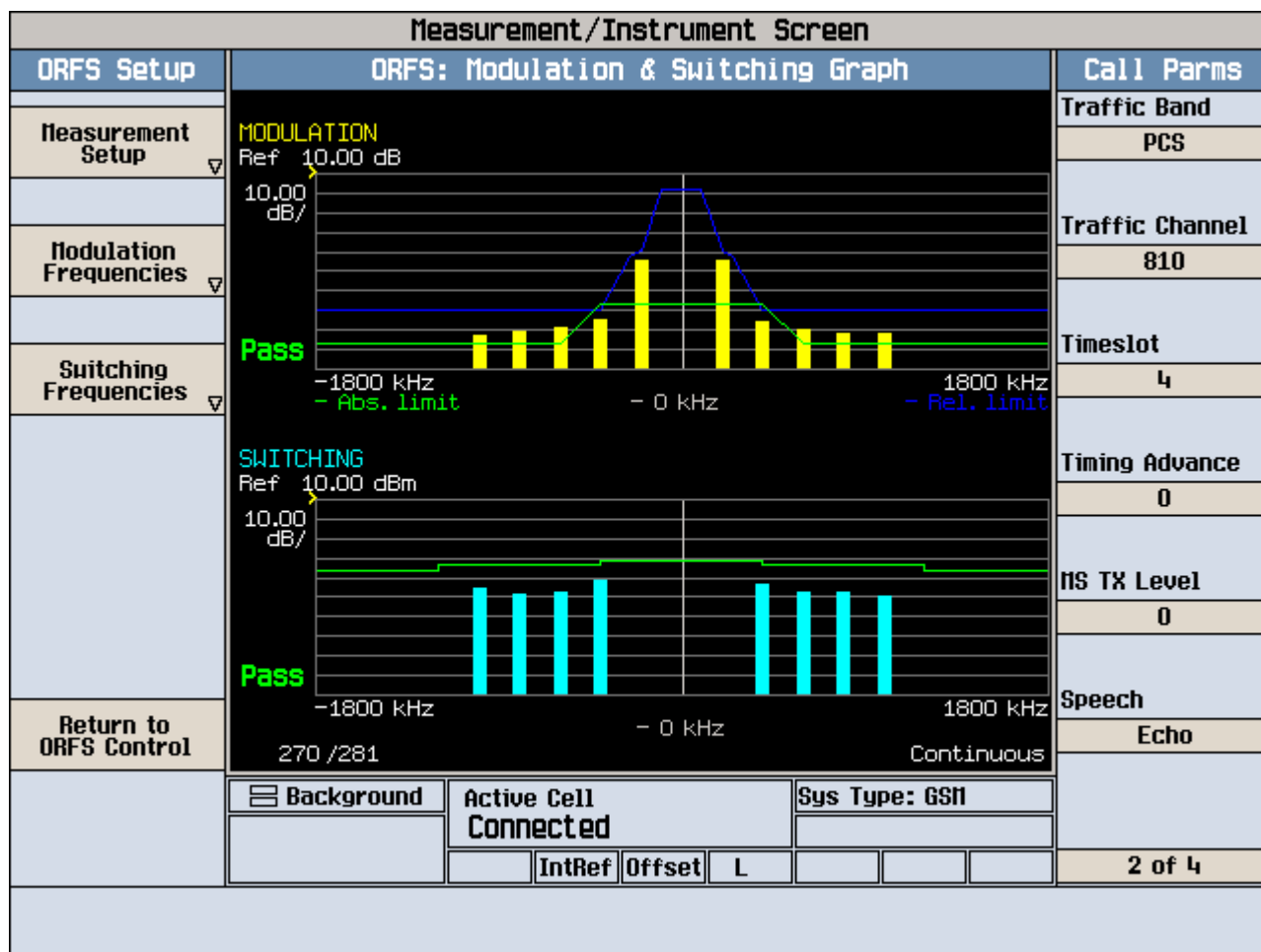
#VBW 1 MHz

Sweep 12.52 ms (601 pts)

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Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.512

Mkr1 1.064 GHz

Ref 30 dBm

Atten 40 dB

-33.30 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

 $E(f)$:

FTun

Swp

AC Coupled

Start 10 MHz

Stop 2.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

Center Freq

1.25500000 GHz

Start Freq

10.0000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

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L

Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.512

Mkr1 16.97 GHz

Ref 30 dBm

Atten 40 dB

-27.91 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

 $E(f)$:

FTun

Swp

1

Start 2.50 GHz

Stop 20.00 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 43.76 ms (601 pts)

Center Freq

11.2500000 GHz

Start Freq

2.50000000 GHz

Stop Freq

20.0000000 GHz

CF Step

1.75000000 GHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

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Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.661

Mkr1 2.288 GHz

Ref 30 dBm

Atten 40 dB

-32.61 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

$E(f)$:

FTun

Swp

AC Coupled

Center Freq

1.25500000 GHz

Start Freq

10.0000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Start 10 MHz

Stop 2.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

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Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.661

Mkr1 15.30 GHz

Ref 30 dBm

Atten 40 dB

-27.70 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

$E(f)$:

FTun

Swp

1

Center Freq

11.2500000 GHz

Start Freq

2.50000000 GHz

Stop Freq

20.0000000 GHz

CF Step

1.75000000 GHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

Start 2.50 GHz

Stop 20.00 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 43.76 ms (601 pts)

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Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.810

Mkr1 2.234 GHz

Ref 30 dBm

Atten 40 dB

-33.38 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

 $E(f)$:

FTun

Swp

AC Coupled

1

Start 10 MHz

Stop 2.500 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 4.16 ms (601 pts)

Center Freq

1.25500000 GHz

Start Freq

10.0000000 MHz

Stop Freq

2.50000000 GHz

CF Step

249.000000 MHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

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Freq/Channel

FCC ID:A3LSGHX426 Cond Spurs Ch.810

Mkr1 14.25 GHz

Ref 30 dBm

Atten 40 dB

-28.09 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

S3 FC

AA

 $E(f)$:

FTun

Swp

1

Start 2.50 GHz

Stop 20.00 GHz

#Res BW 1 MHz

#VBW 1 MHz

Sweep 43.76 ms (601 pts)

Center Freq

11.2500000 GHz

Start Freq

2.50000000 GHz

Stop Freq

20.0000000 GHz

CF Step

1.75000000 GHz

Auto

Man

Freq Offset

0.00000000 Hz

Signal Track

On

Off

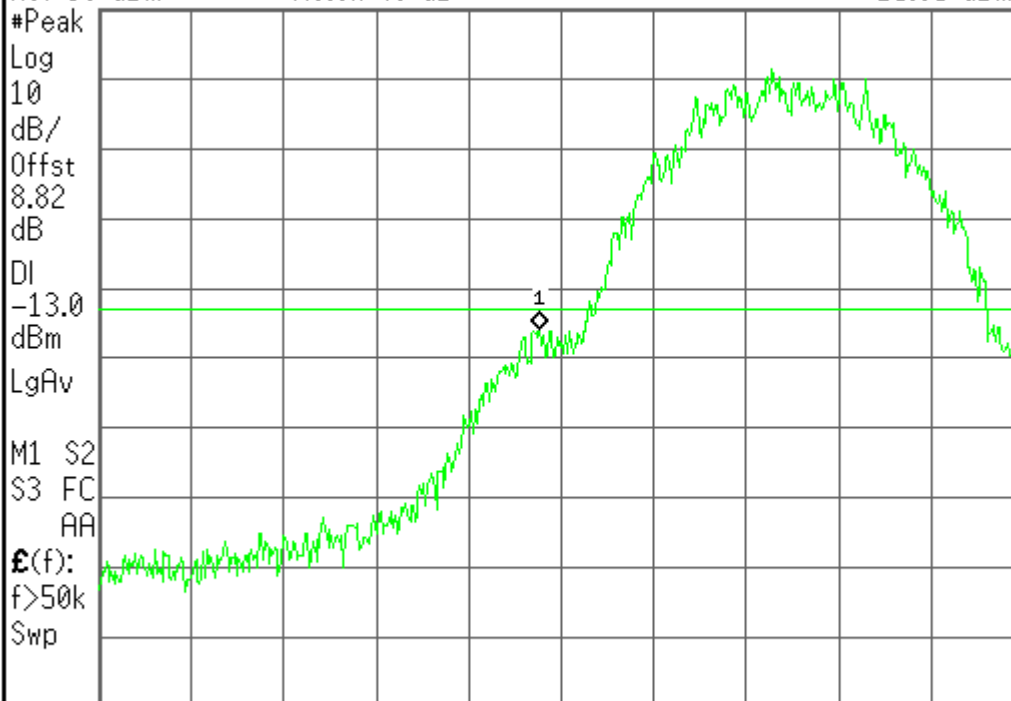
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Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block A Ch.512 Mkr1 1.849 980 9 GHz
Ref 30 dBm Atten 40 dB -15.95 dBm



Center Freq
1.85000000 GHz

Start Freq
1.84959500 GHz

Stop Freq
1.85040500 GHz

CF Step
81.00000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Start 1.849 595 0 GHz Stop 1.850 405 0 GHz
#Res BW 3 kHz #VBW 3 kHz Sweep 108.5 ms (601 pts)

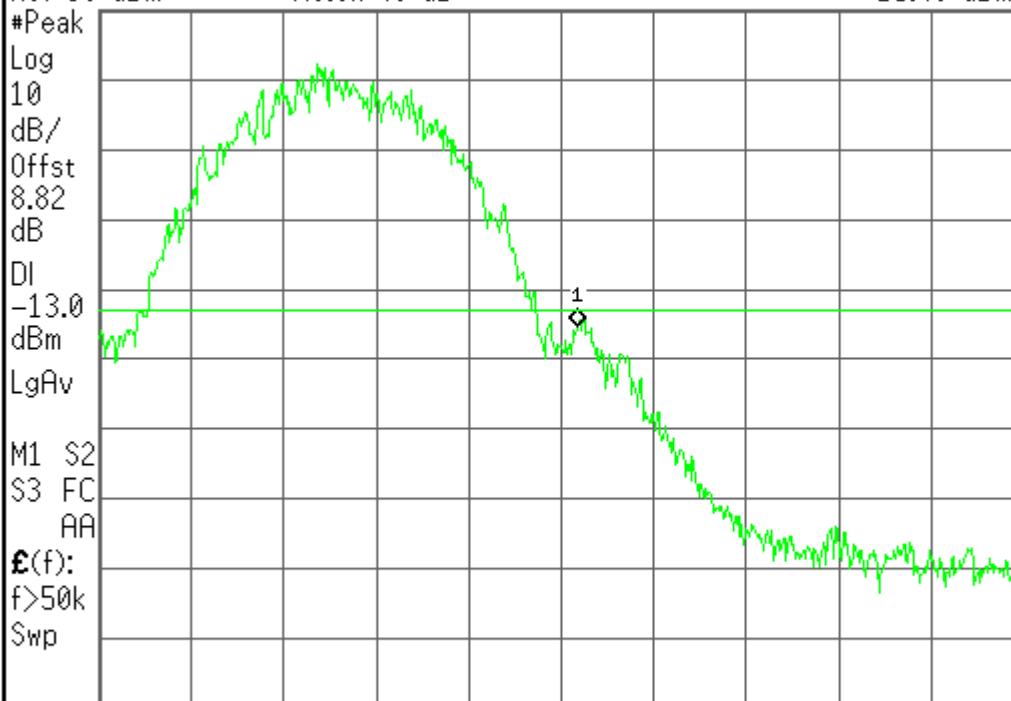
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Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block A Ch.585 Mkr1 1.865 015 0 GHz
Ref 30 dBm Atten 40 dB -15.40 dBm



Center Freq
1.86500000 GHz

Start Freq
1.86459500 GHz

Stop Freq
1.86540500 GHz

CF Step
81.00000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Start 1.864 595 0 GHz Stop 1.865 405 0 GHz
#Res BW 3 kHz #VBW 3 kHz Sweep 108.5 ms (601 pts)

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Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block B Ch.612 Mkr1 1.869 982 3 GHz

Ref 30 dBm

Atten 40 dB

-15.57 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

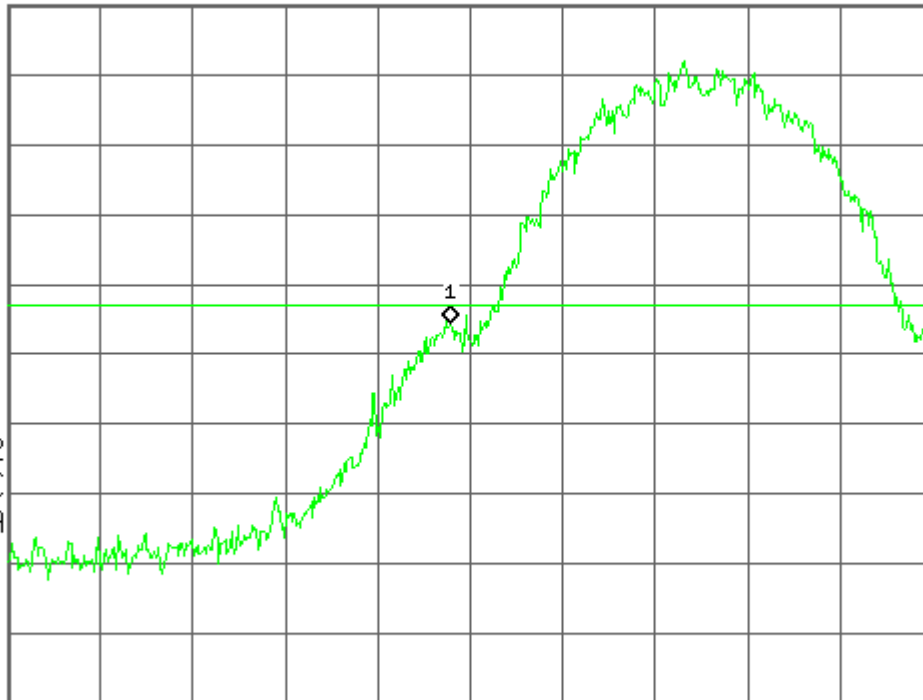
S3 FC

AA

$E(f)$:

f>50k

Swp



Start 1.869 595 0 GHz

Stop 1.870 405 0 GHz

#Res BW 3 kHz

#VBW 3 kHz

Sweep 108.5 ms (601 pts)

Center Freq
1.87000000 GHz

Start Freq
1.86959500 GHz

Stop Freq
1.87040500 GHz

CF Step
81.00000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block B Ch.685 Mkr1 1.885 006 8 GHz

Ref 30 dBm

Atten 40 dB

-15.31 dBm

#Peak

Log

10

dB/

Offst

8.82

dB

DI

-13.0

dBm

LgAv

M1 S2

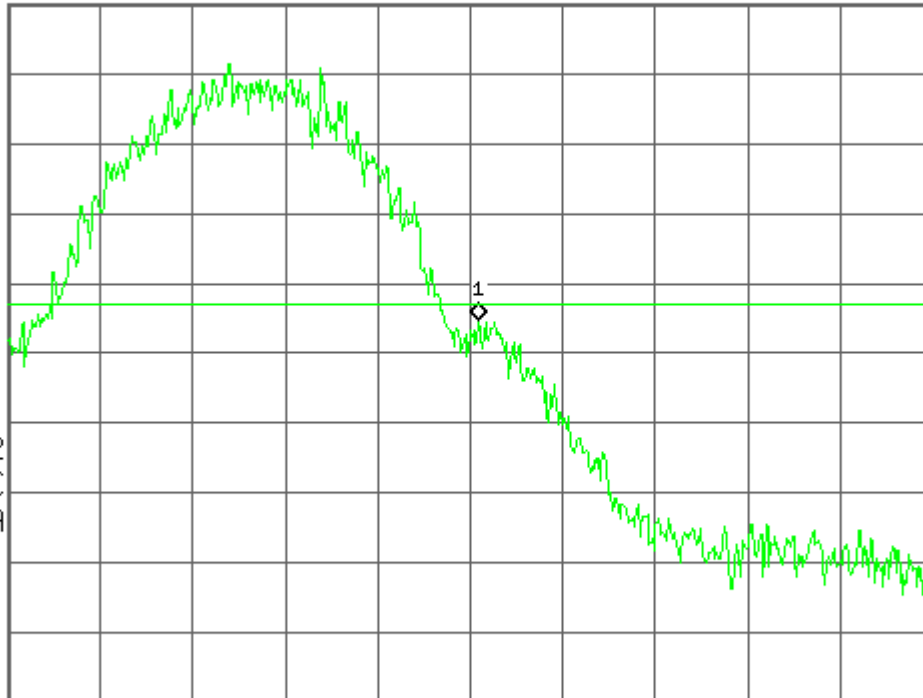
S3 FC

AA

$E(f)$:

f>50k

Swp



Center 1.885 000 0 GHz

Span 810 kHz

#Res BW 3 kHz

#VBW 3 kHz

Sweep 108.5 ms (601 pts)

Center Freq
1.88500000 GHz

Start Freq
1.88459500 GHz

Stop Freq
1.88540500 GHz

CF Step
81.00000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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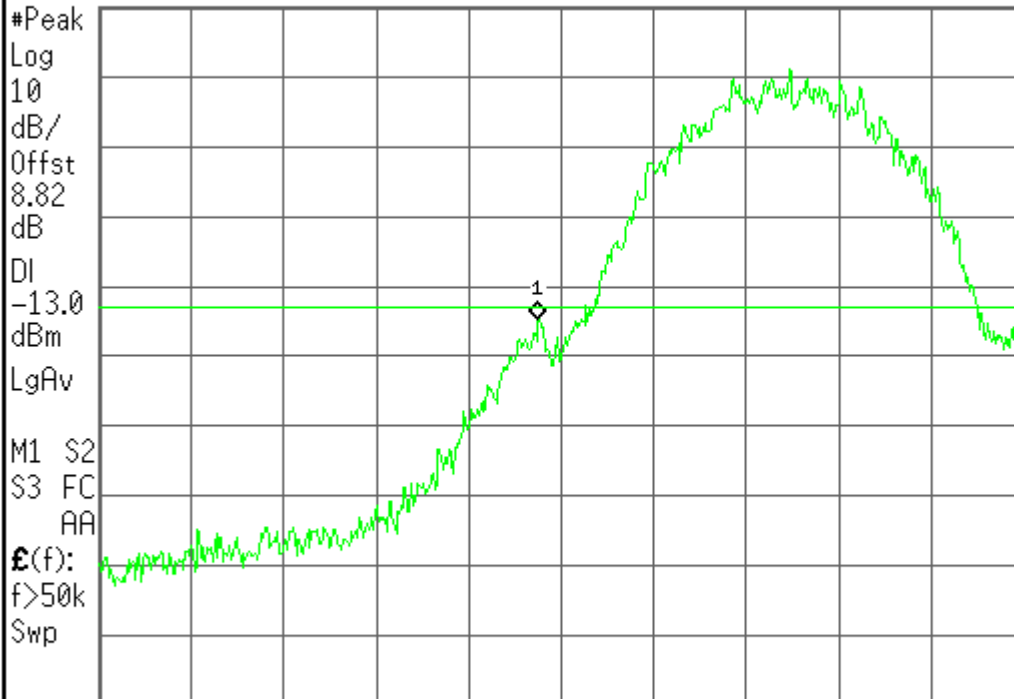
Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block C Ch.737 Mkr1 1.894 979 6 GHz

Ref 30 dBm Atten 40 dB -14.69 dBm



Center 1.895 000 0 GHz

Span 810 kHz

*Res BW 3 kHz

*VBW 3 kHz

Sweep 108.5 ms (601 pts)

Center Freq
1.89500000 GHz

Start Freq
1.89459500 GHz

Stop Freq
1.89540500 GHz

CF Step
81.0000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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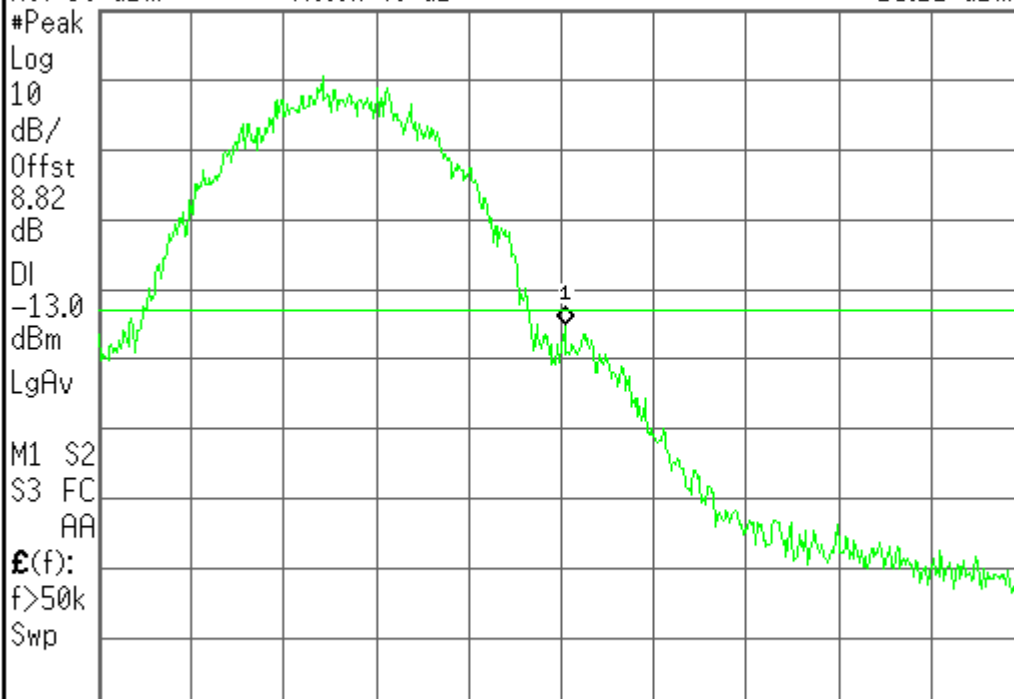
Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block C Ch.810 Mkr1 1.910 002 7 GHz

Ref 30 dBm Atten 40 dB -15.11 dBm



Center 1.910 000 0 GHz

Span 810 kHz

*Res BW 3 kHz

*VBW 3 kHz

Sweep 108.5 ms (601 pts)

Center Freq
1.91000000 GHz

Start Freq
1.90959500 GHz

Stop Freq
1.91040500 GHz

CF Step
81.0000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

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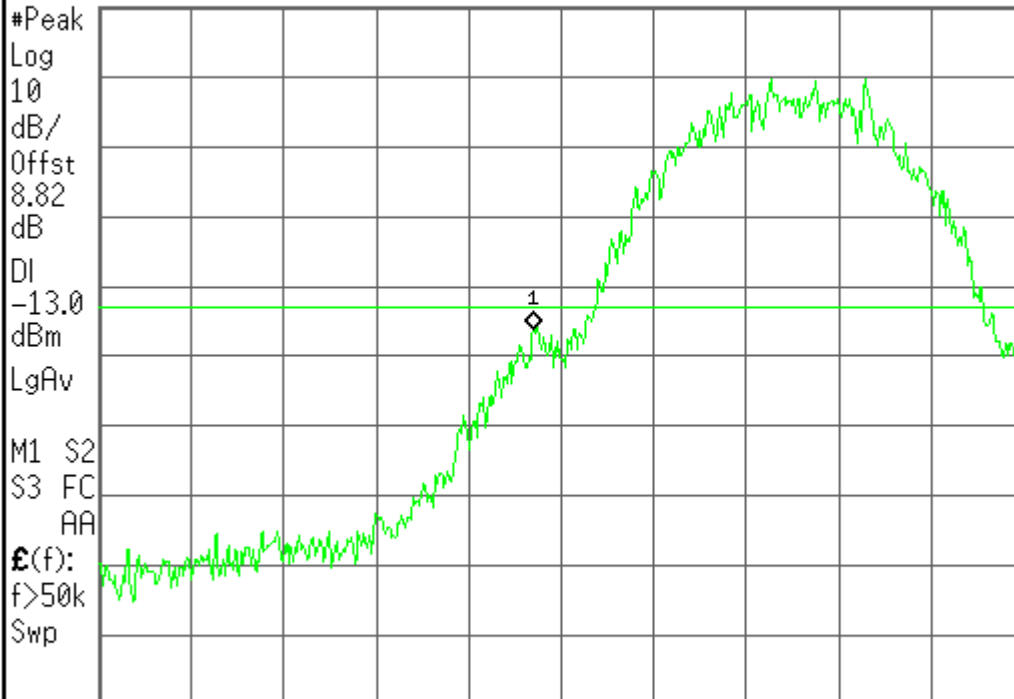
Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block D Ch.587 Mkr1 1.864 975 5 GHz

Ref 30 dBm Atten 40 dB -16.20 dBm



Center Freq
1.86500000 GHz

Start Freq
1.86459500 GHz

Stop Freq
1.86540500 GHz

CF Step
81.0000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Center 1.865 000 0 GHz Span 810 kHz

*Res BW 3 kHz *VBW 3 kHz Sweep 108.5 ms (601 pts)

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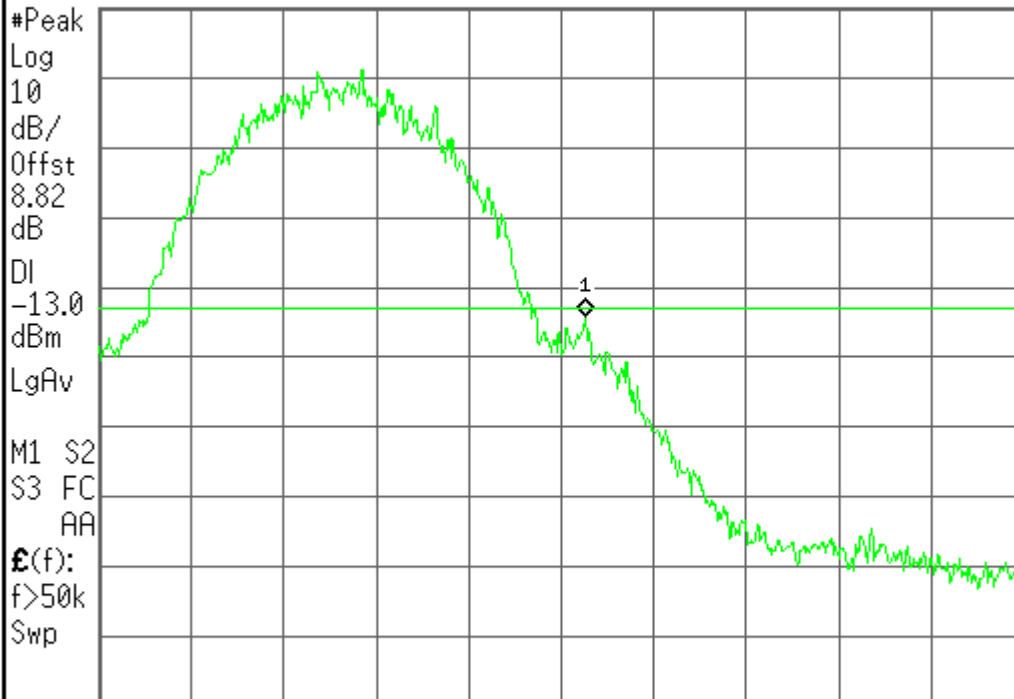
Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block D Ch.610 Mkr1 1.870 021 8 GHz

Ref 30 dBm Atten 40 dB -14.23 dBm



Center Freq
1.87000000 GHz

Start Freq
1.86959500 GHz

Stop Freq
1.87040500 GHz

CF Step
81.0000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Center 1.870 000 0 GHz Span 810 kHz

*Res BW 3 kHz *VBW 3 kHz Sweep 108.5 ms (601 pts)

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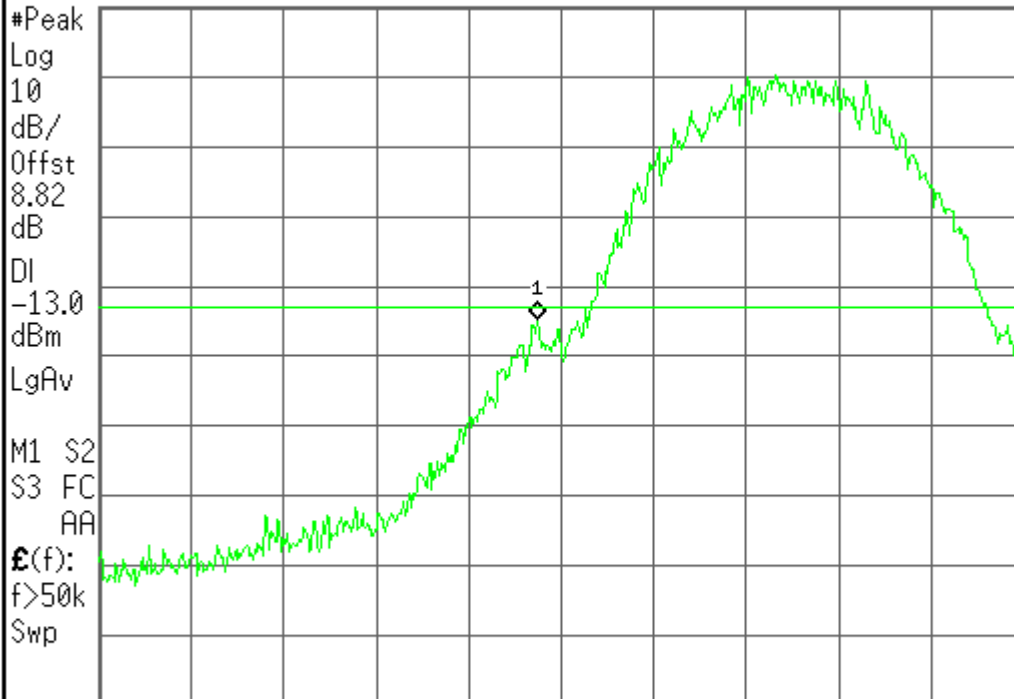
Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block E Ch.687 Mkr1 1.884 978 2 GHz

Ref 30 dBm Atten 40 dB -14.64 dBm



Center Freq
1.88500000 GHz

Start Freq
1.88459500 GHz

Stop Freq
1.88540500 GHz

CF Step
81.0000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

Center 1.885 000 0 GHz Span 810 kHz

*Res BW 3 kHz *VBW 3 kHz Sweep 108.5 ms (601 pts)

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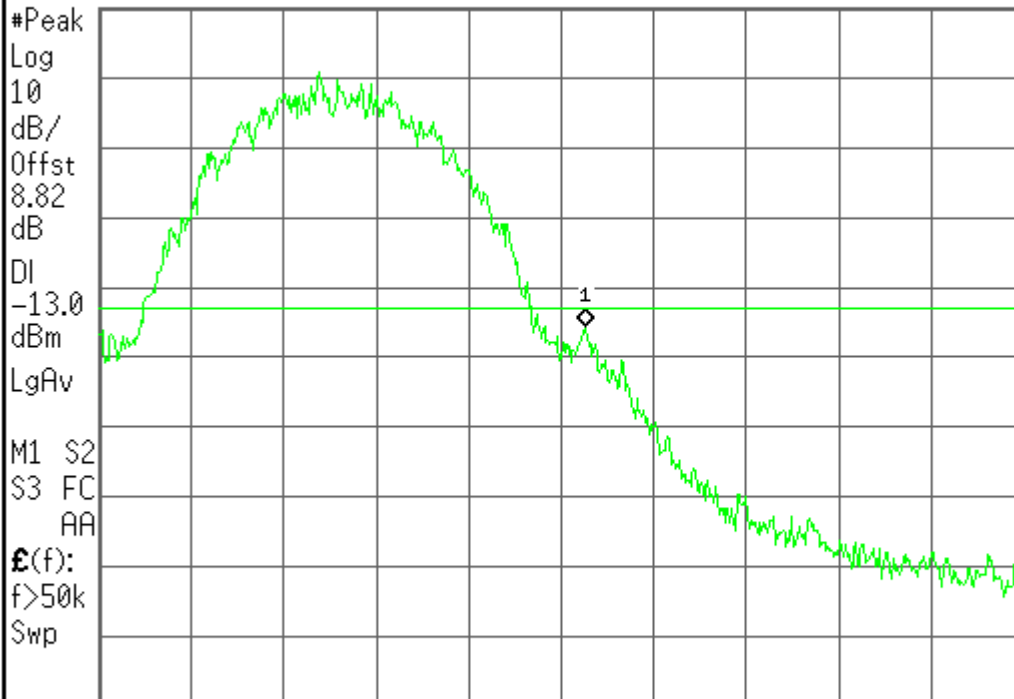
Agilent

L

Freq/Channel

FCC ID:A3LSGHX426 Band Edge Block E Ch.710 Mkr1 1.890 020 5 GHz

Ref 30 dBm Atten 40 dB -15.58 dBm



Center Freq
1.89000000 GHz

Start Freq
1.88959500 GHz

Stop Freq
1.89040500 GHz

CF Step
81.0000000 kHz
Auto Man

Freq Offset
0.00000000 Hz

Signal Track
On Off

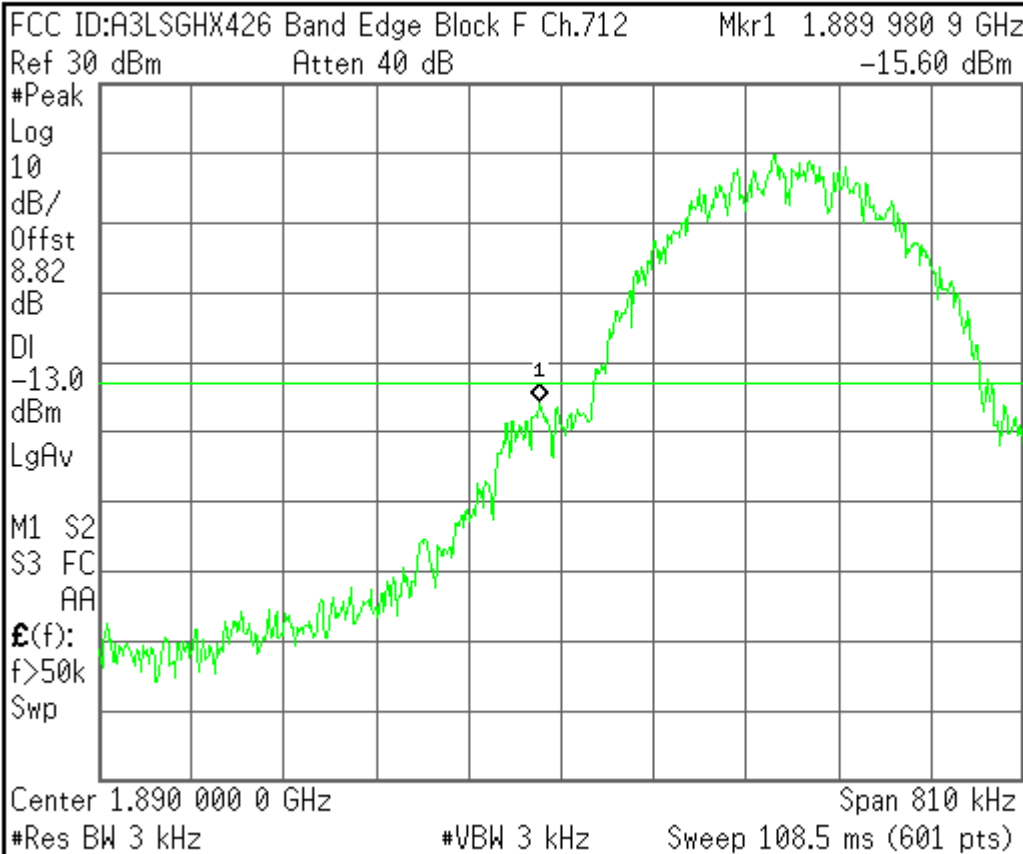
Center 1.890 000 0 GHz Span 810 kHz

*Res BW 3 kHz *VBW 3 kHz Sweep 108.5 ms (601 pts)

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Marker

Select Marker

1 2 3 4

Normal

Delta

Delta Pair

(Tracking Ref)

Ref A

Span Pair

Span Center

Off

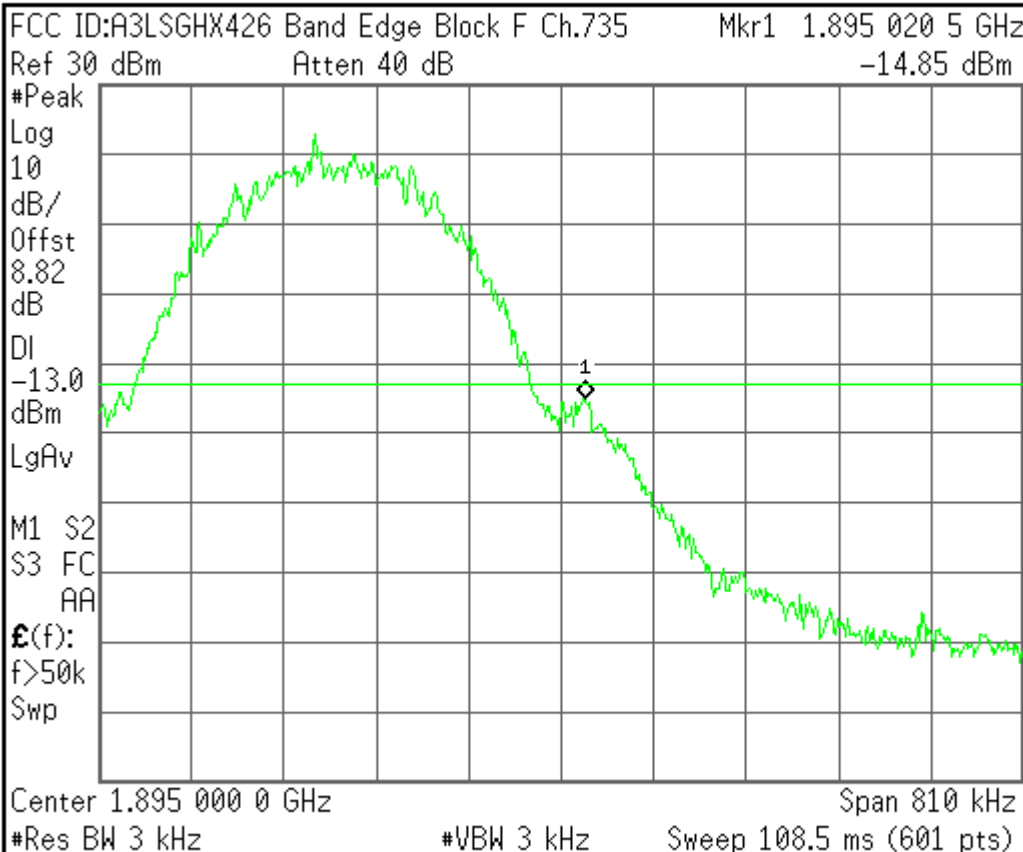
More

1 of 2

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Freq/Channel

Center Freq

1.89500000 GHz

Start Freq

1.89459500 GHz

Stop Freq

1.89540500 GHz

CF Step

81.00000000 kHz

Auto Man

Freq Offset

0.00000000 Hz

Signal Track

On Off

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