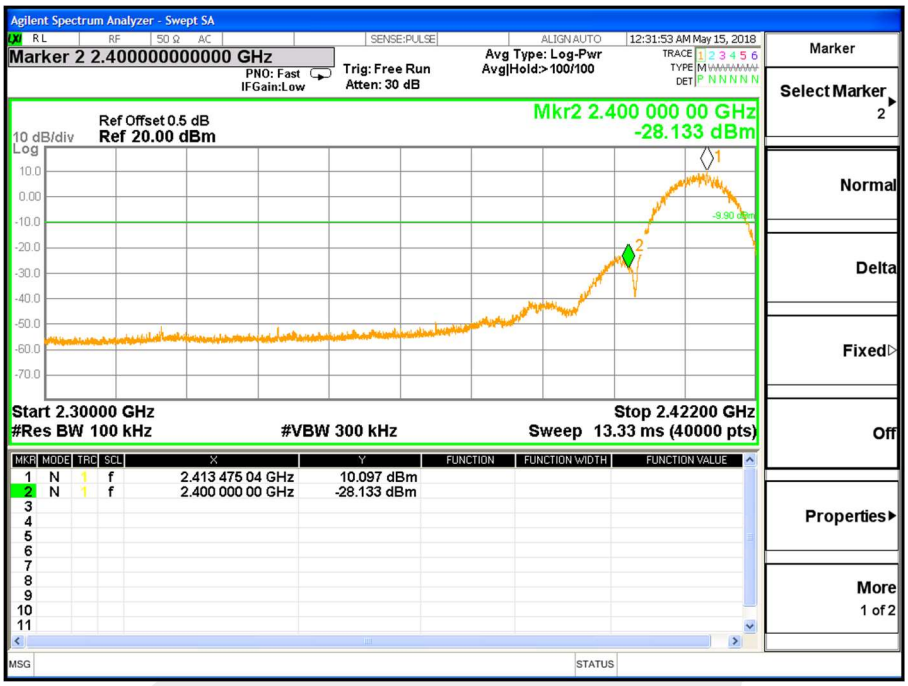
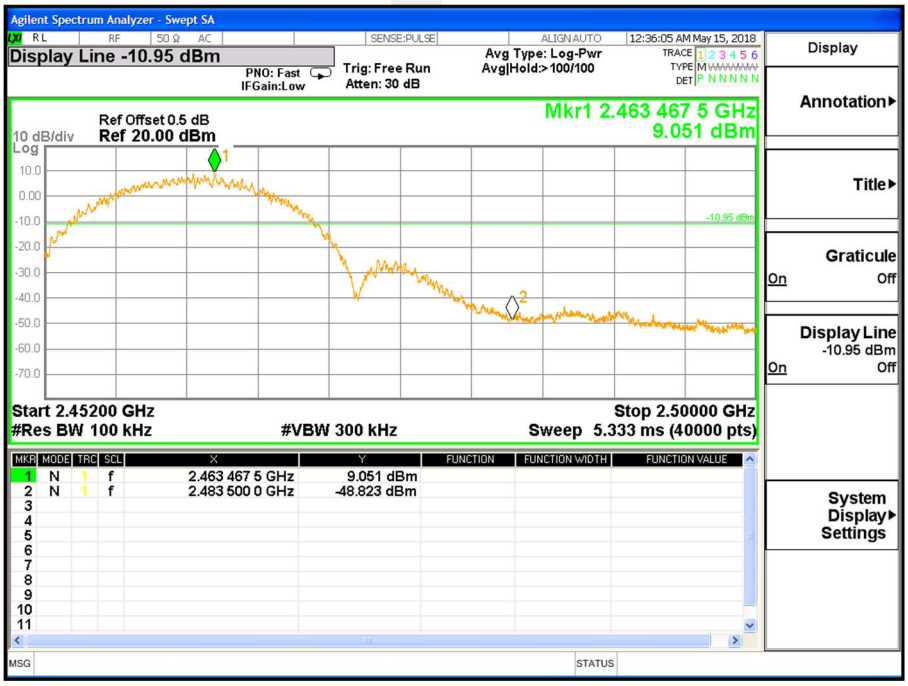
Band edge

CH 01

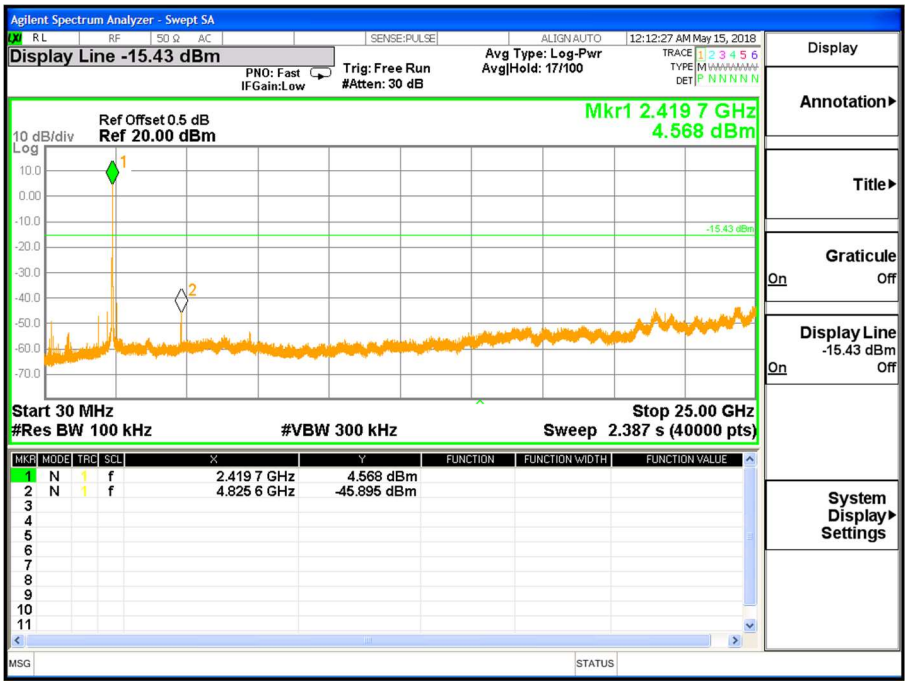


CH 11

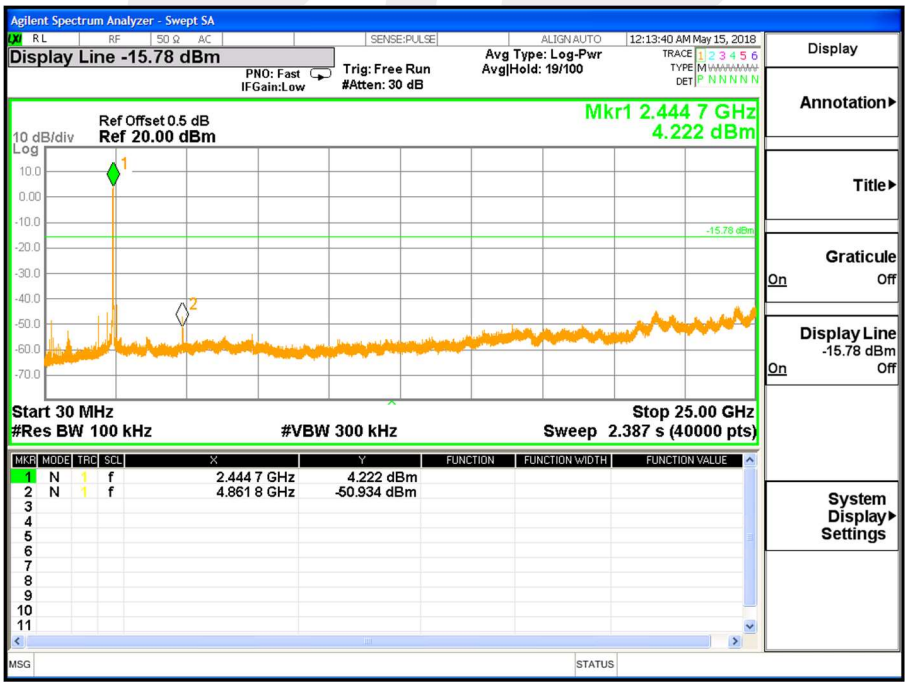


Temperature：	25 ℃	Relative Humidity：	60%
Test Voltage ：	DC 3.8V	Test Mode ：	TX g Mode /CH01, CH06, CH11

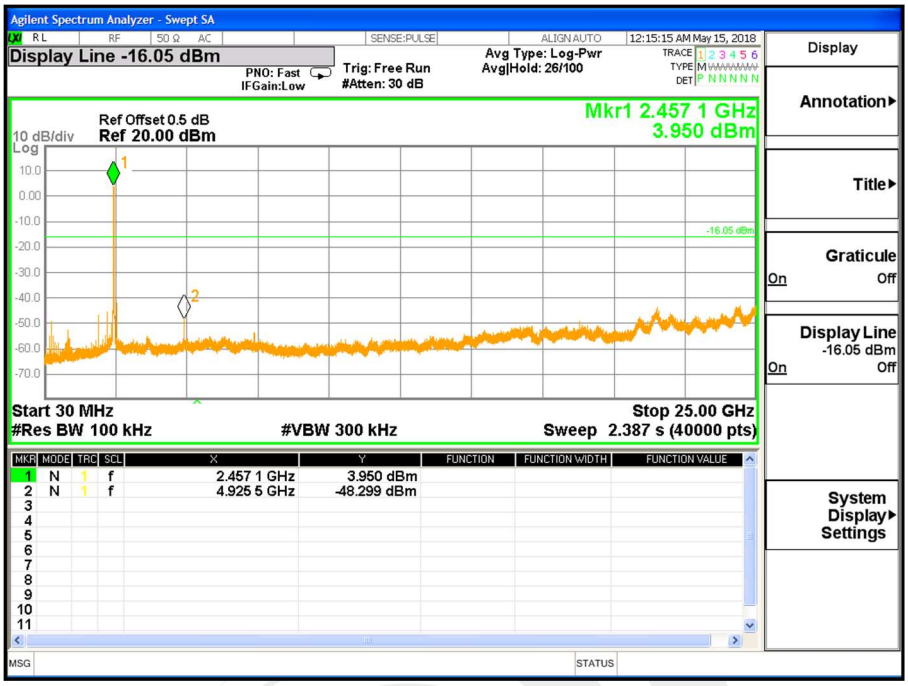
CH 01



CH06

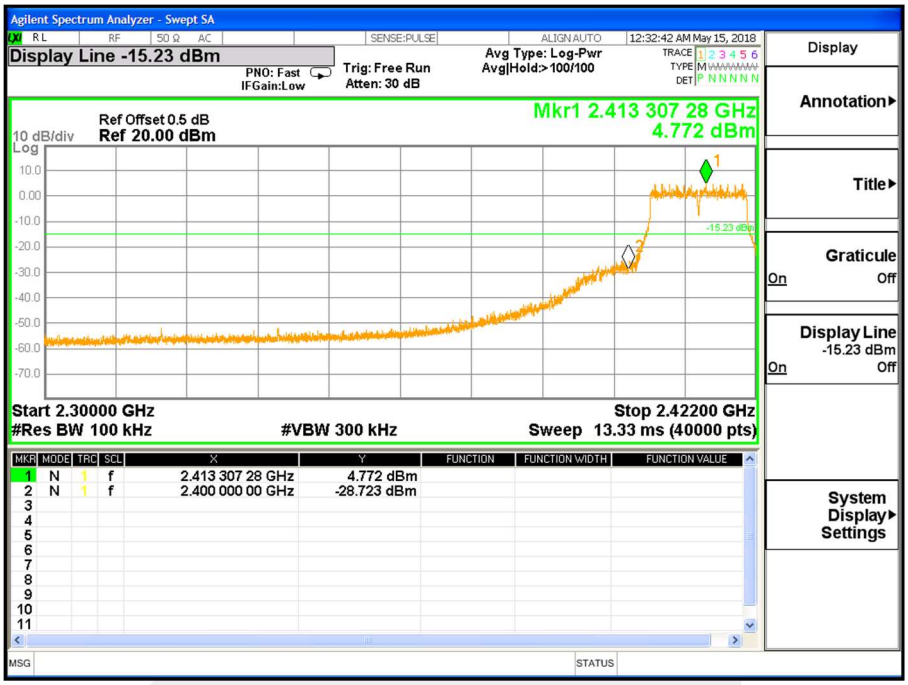


CH 11

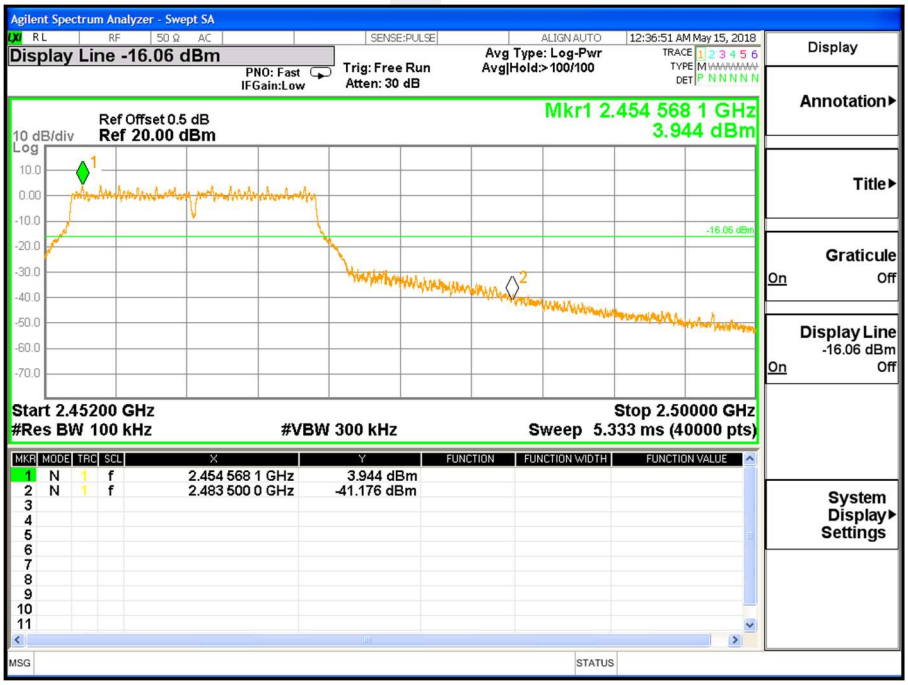

Agilent Spectrum Analyzer - Swept SA
Display Line -16.05 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 26/100
12:15:15 AM May 15, 2018
Ref Offset 0.5 dB
10 dB/div
Ref 20.00 dBm
Log
Mkr1 2.457 1 GHz
3.950 dBm
-16.05 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (40000 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.457 1 GHz 3.950 dBm
2 N 1 f 4.925 5 GHz -48.299 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-16.05 dBm
On Off
System Display Settings
MSG
STATUS

Band edge

CH 01

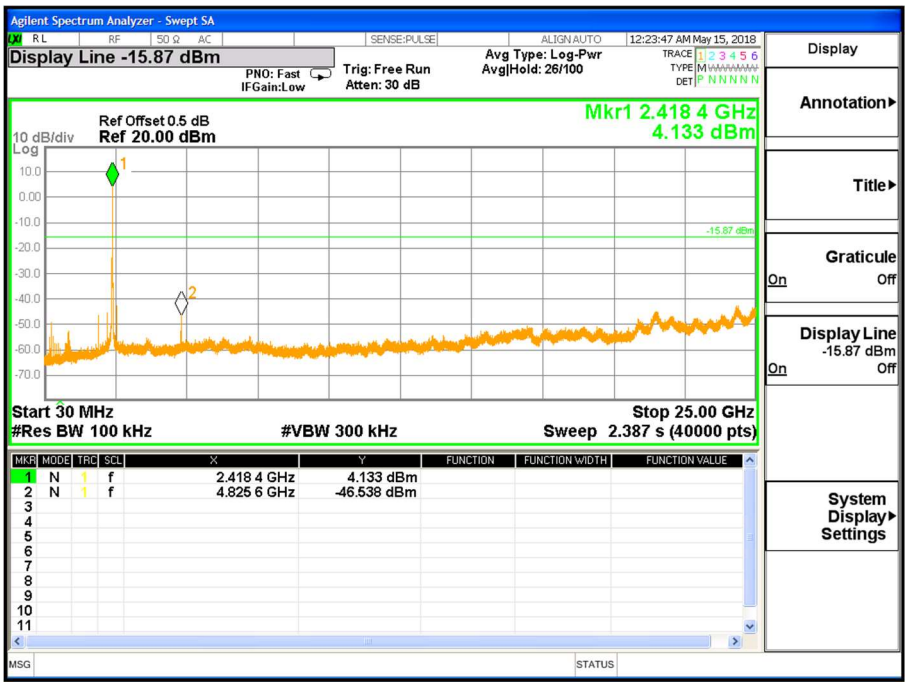


CH11

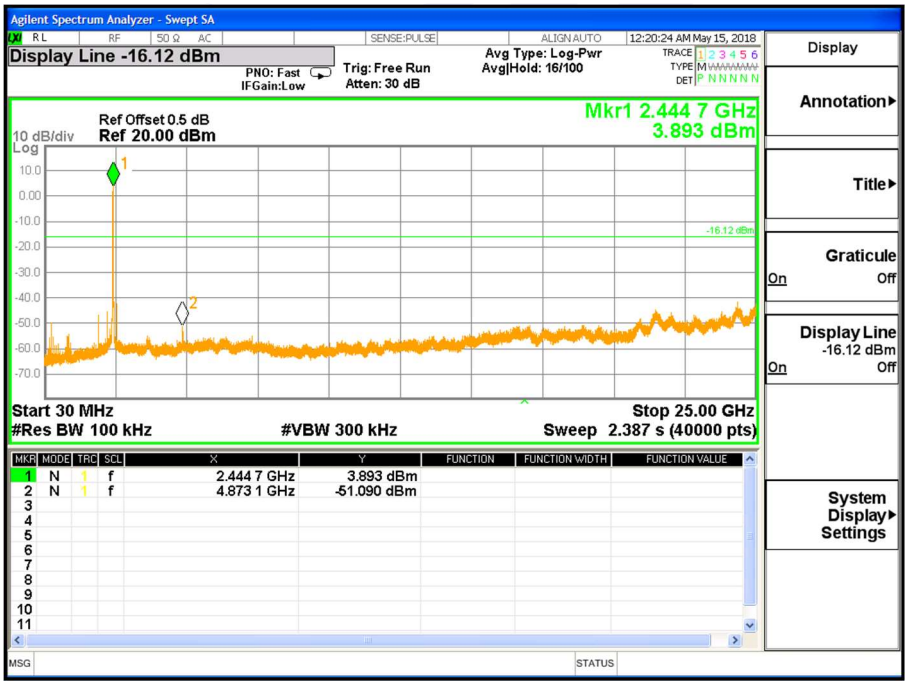


Temperature：	25 ℃	Relative Humidity：	60%
Test Voltage ：	DC 3.8V	Test Mode ：	TX n Mode(20M) /CH01, CH06, CH11

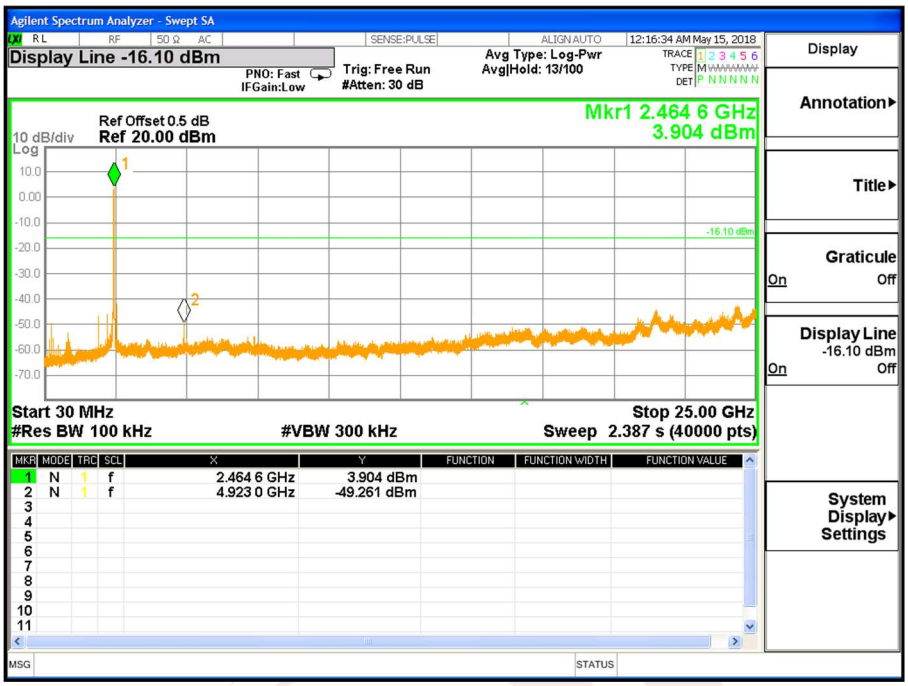
CH 01



CH 06

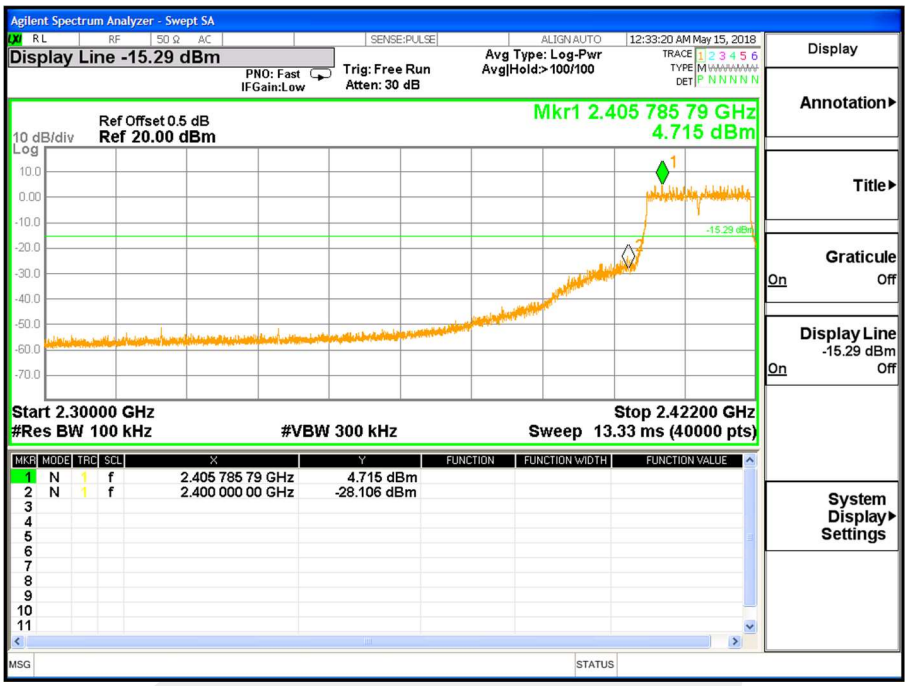


CH 11

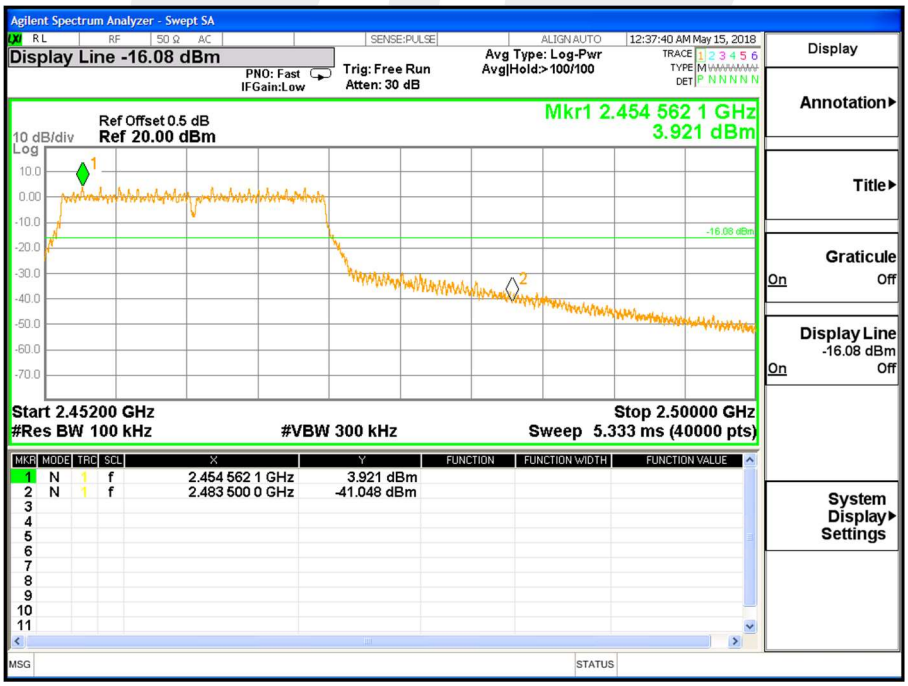

Agilent Spectrum Analyzer - Swept SA
Display Line -16.10 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 13/100
12:16:34 AM May 15, 2018
Ref Offset 0.5 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.464 6 GHz
3.904 dBm
-16.10 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (40000 pts)
1 N 1 f 2.464 6 GHz 3.904 dBm
2 N 1 f 4.923 0 GHz -49.261 dBm
Display
Annotation
Title
Graticule
Display Line
-16.10 dBm
System Display Settings

Band edge

CH 01

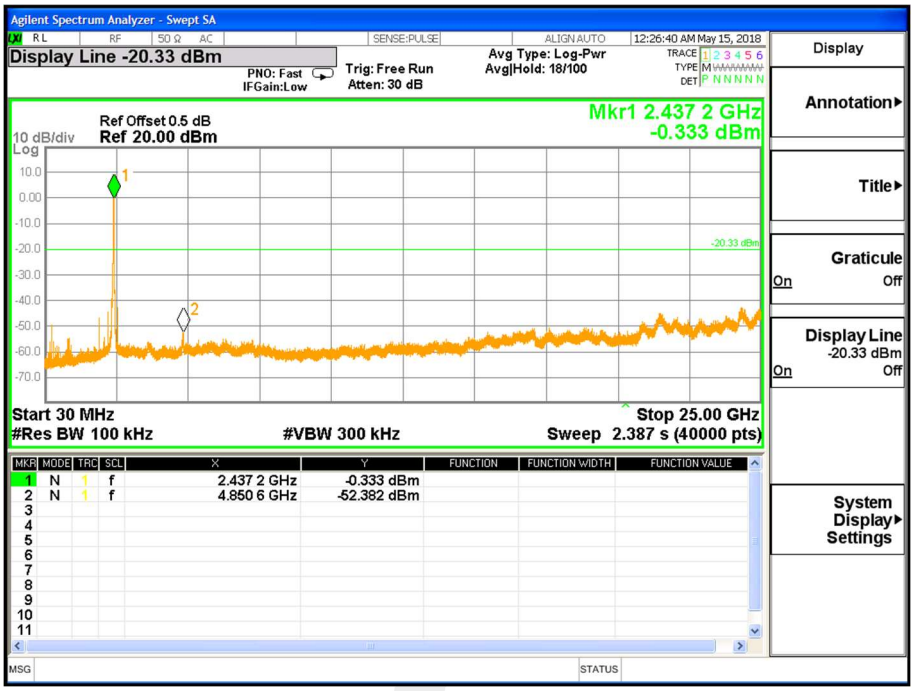


CH 11

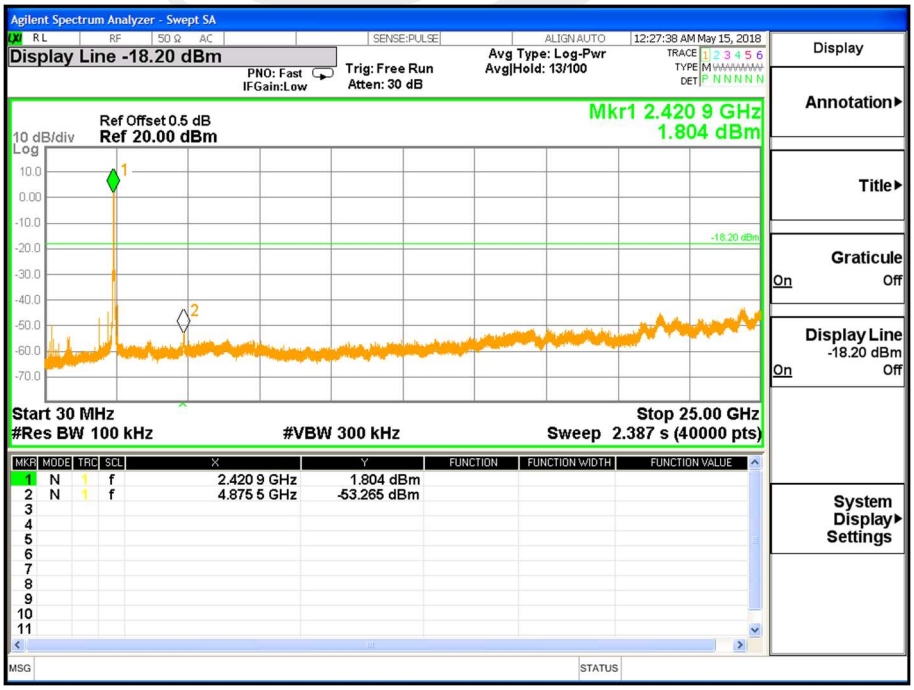


Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

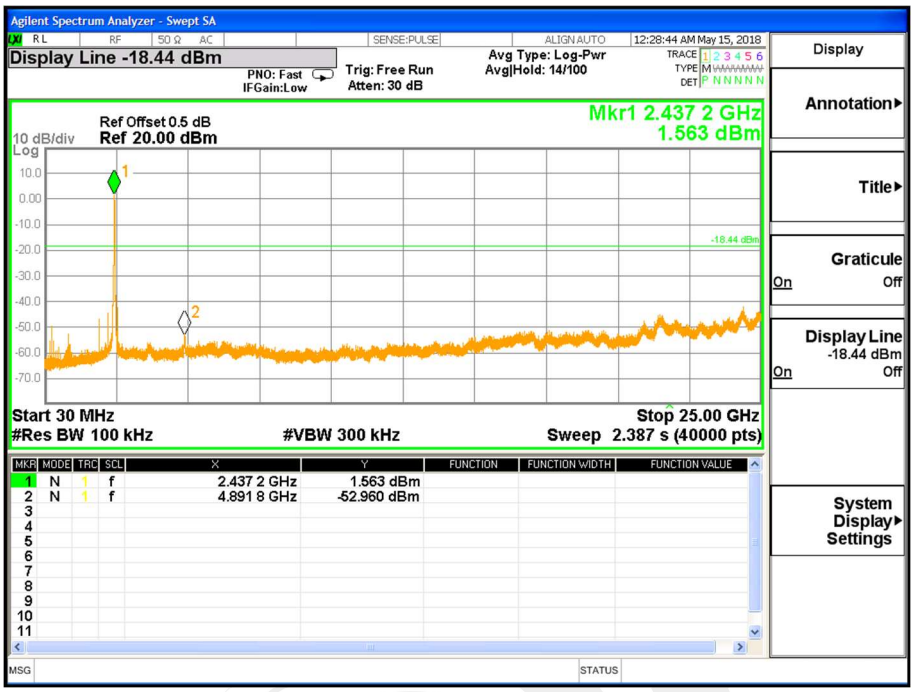
CH 03



CH06

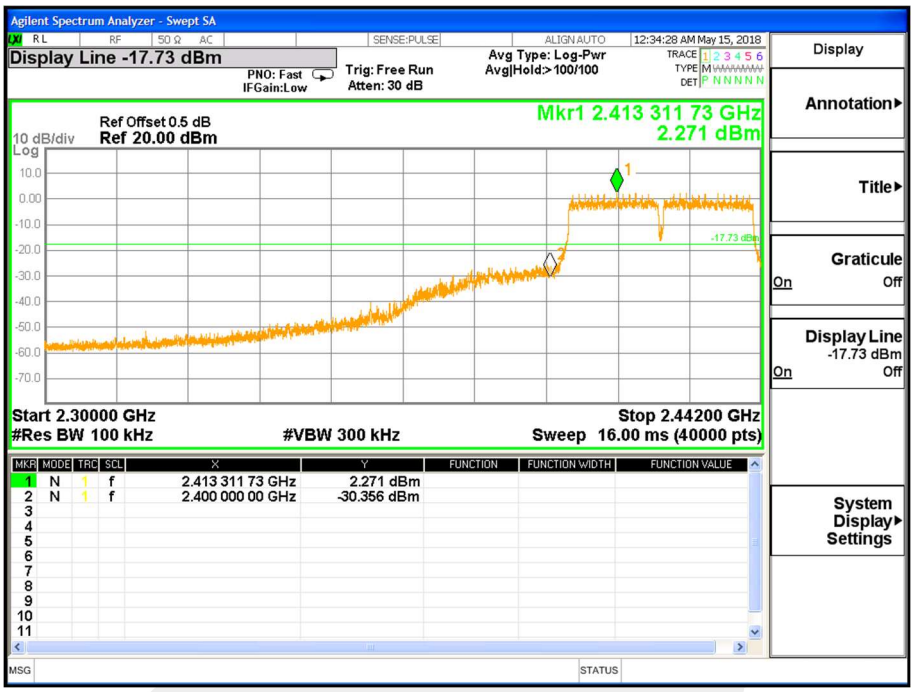


CH09

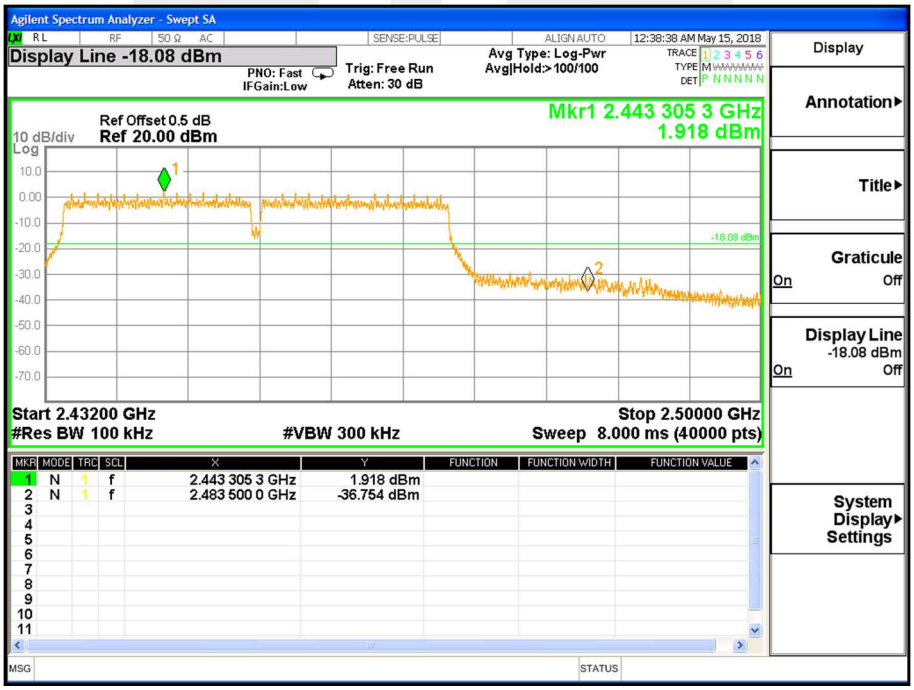

Agilent Spectrum Analyzer - Swept SA
Display Line -18.44 dBm
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 14/100
12:28:44 AM May 15, 2018
Ref Offset 0.5 dB
10 dB/div
Ref 20.00 dBm
Mkr1 2.437 2 GHz
1.563 dBm
-18.44 dBm
Start 30 MHz
#Res BW 100 kHz
#VBW 300 kHz
Stop 25.00 GHz
Sweep 2.387 s (40000 pts)
1 N 1 f 2.437 2 GHz 1.563 dBm
2 N 1 f 4.891 8 GHz -52.960 dBm
Display
Annotation
Title
Graticule
On Off
Display Line
-18.44 dBm
On Off
System Display Settings

Band edge

CH03



CH 09



5 POWER SPECTRAL DENSITY TEST

5.1 APPLIED PROCEDURES / LIMIT

FCC Part 15.247,Subpart C RSS-247 Issue 2				
Section	Test Item	Limit	Frequency Range (MHz)	Result
15.247(e) RSS-247 Clause 5.2(b)	Power Spectral Density	≤8 dBm (RBW ≥ 3KHz)	2400-2483.5	PASS

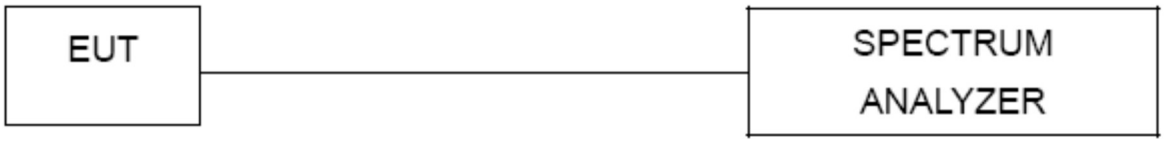
5.2 TEST PROCEDURE

1) Set analyzer center frequency to DTS channel center frequency.
2) Set the span to 1.5 times the DTS channel bandwidth.
3) Set the 100 kHz ≥ RBW ≥ 3 kHz.
4) Set the VBW ≥ 3 x RBW.
5) Detector = peak.
6) Sweep time = auto couple.
7) Trace mode = max hold.
8) Allow trace to fully stabilize.
9) Use the peak marker function to determine the maximum amplitude level.
10) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

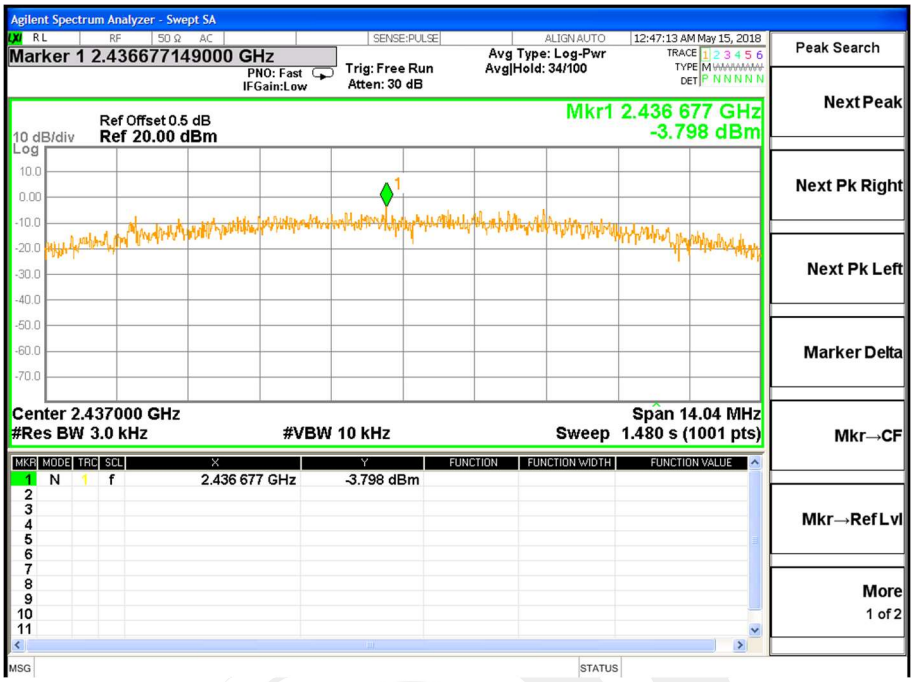
5.6 TEST RESULTS

Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX b Mode /CH01, CH06, CH11

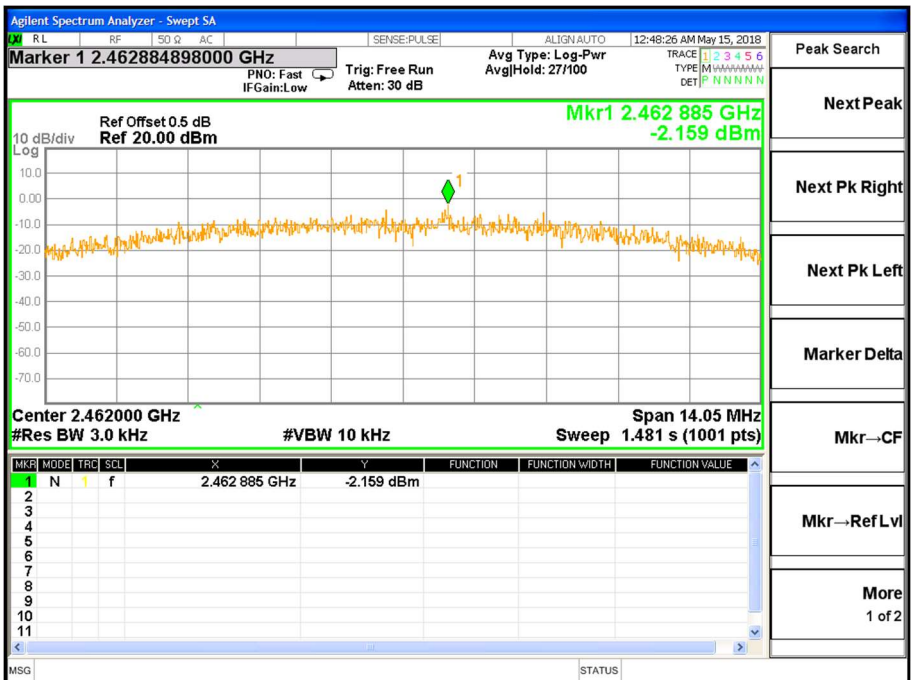
Test Mode	Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
b mode (1 Mbps)	2412.00	-3.86	≤ 8.00	PASS
	2437.00	-3.80	≤ 8.00	PASS
	2462.00	-2.16	≤ 8.00	PASS

TX CH01

TX CH06



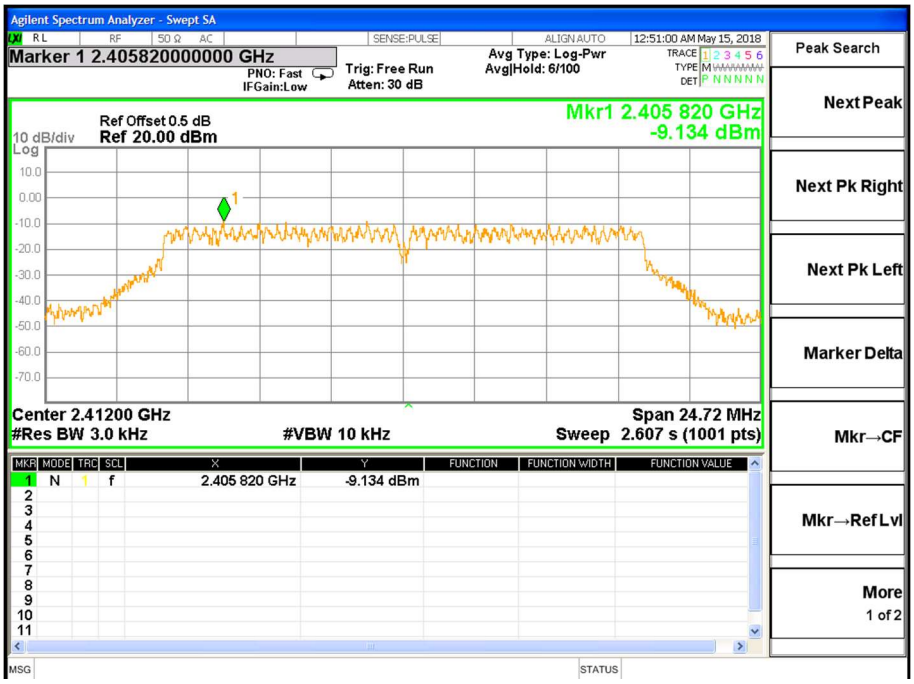
TX CH11



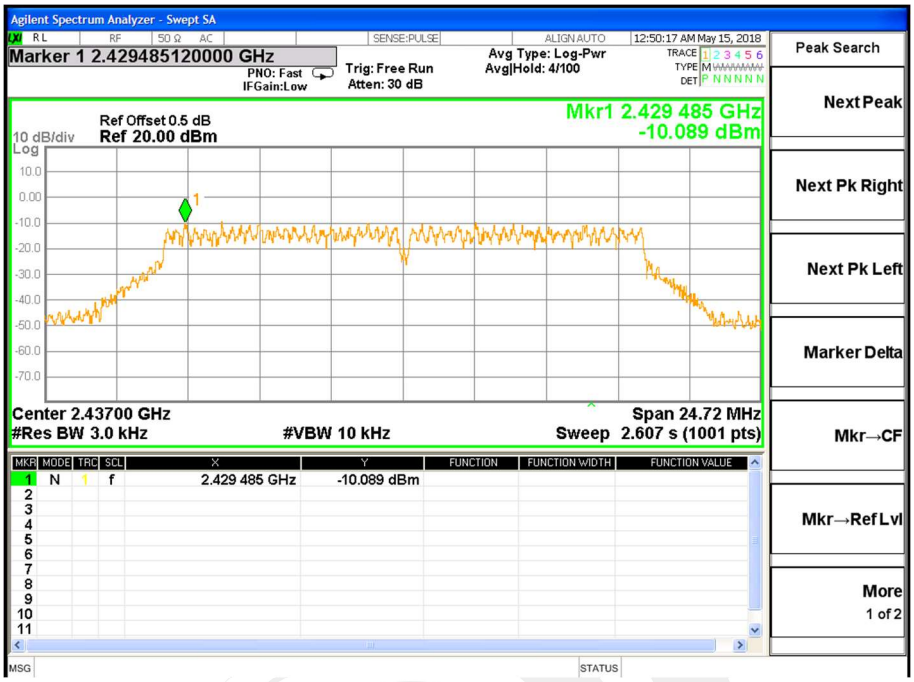
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX g Mode /CH01, CH06, CH11

Test Mode	Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
g mode (6 Mbps)	2412.00	-9.13	≤ 8.00	PASS
	2437.00	-10.09	≤ 8.00	PASS
	2462.00	-10.23	≤ 8.00	PASS

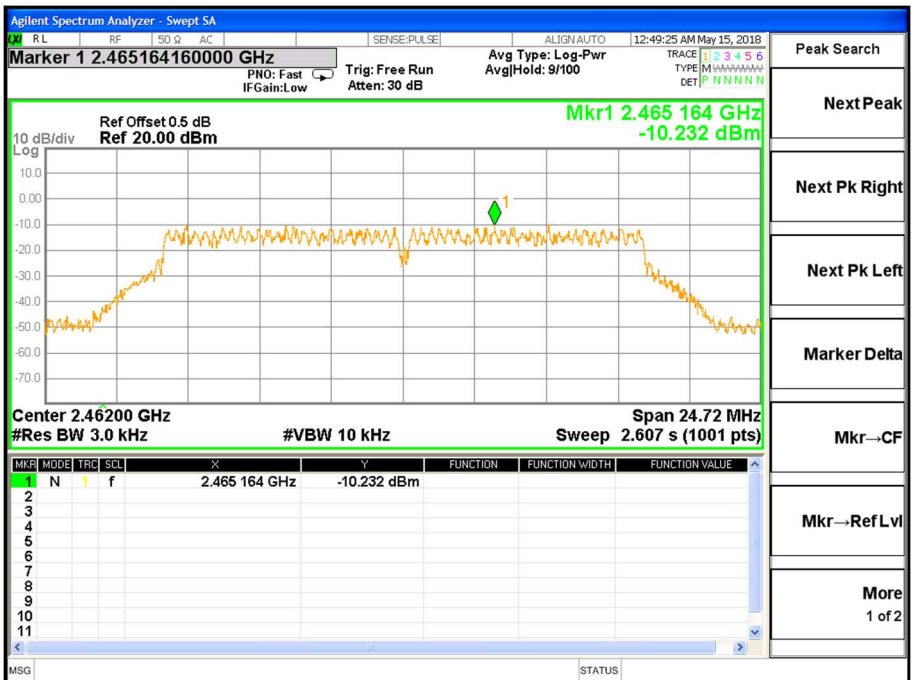
TX CH01



TX CH06



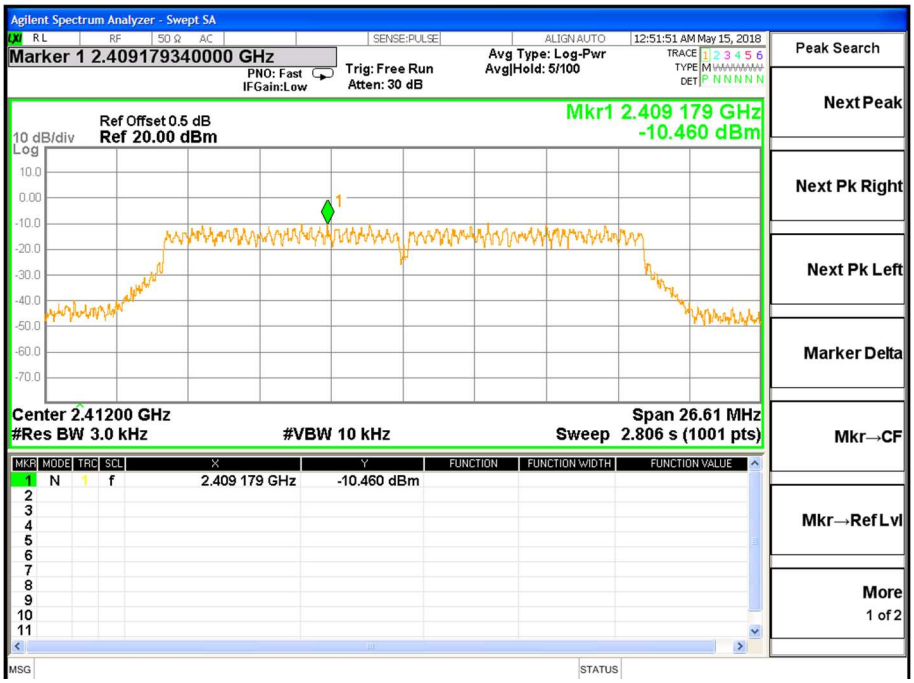
TX CH11



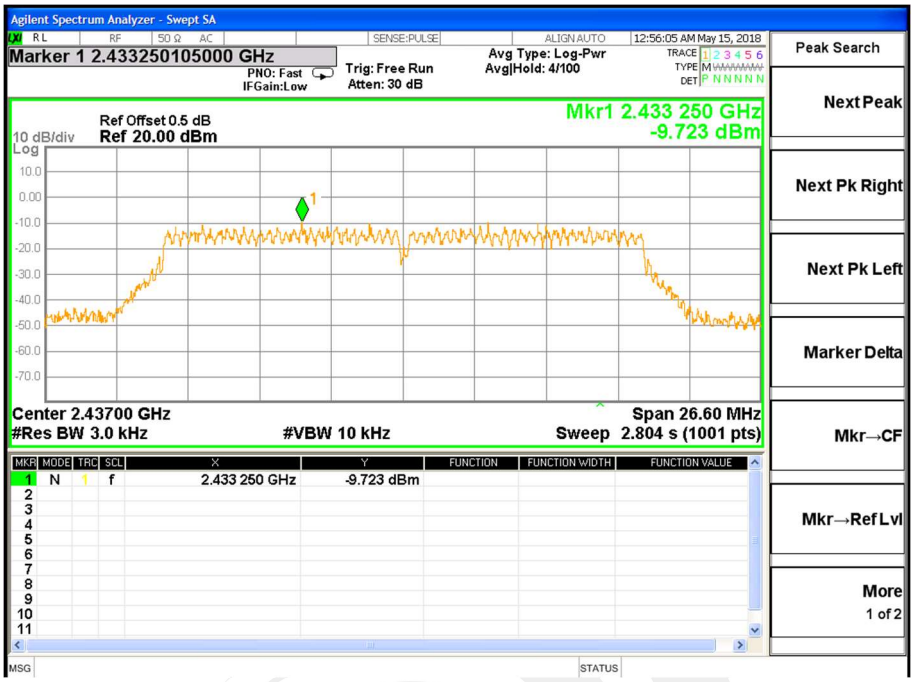
Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX n Mode(20M) /CH01, CH06, CH11

Test Mode	Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
n(HT20) mode (MCS0)	2412.00	-10.40	≤ 8.00	PASS
	2437.00	-9.72	≤ 8.00	PASS
	2462.00	-10.66	≤ 8.00	PASS

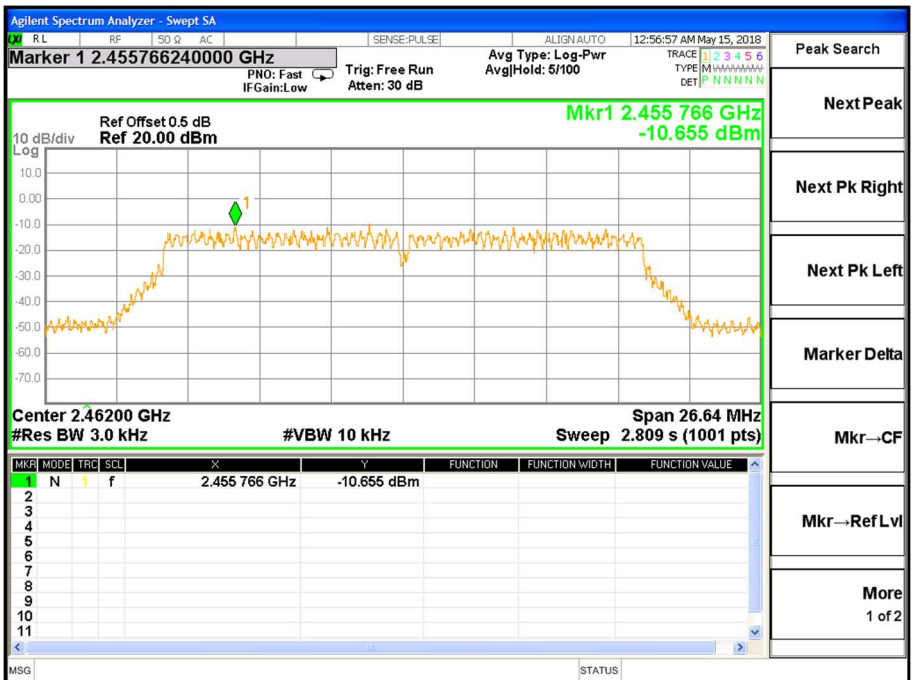
TX CH01



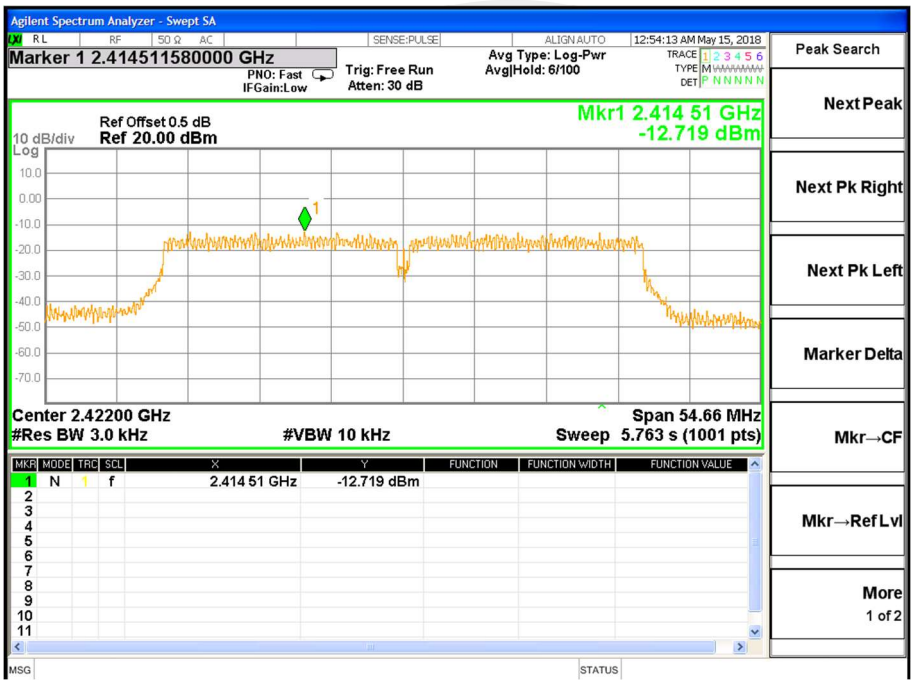
TX CH06



TX CH11



Temperature:	25 ℃	Relative Humidity:	60%
Test Voltage:	DC 3.8V	Test Mode:	TX n Mode(40M) /CH03, CH06, CH09

Test Mode	Frequency (MHz)	Power Density (dBm/3kHz)	Limit (dBm/3KHz)	Result
n(HT40) mode (MCS0)	2422.00	-12.72	≤ 8.00	PASS
	2437.00	-13.07	≤ 8.00	PASS
	2452.00	-14.01	≤ 8.00	PASS

TX CH03