



EMC TEST REPORT	
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MANUFACTURER	Gemtek Electronics (ChangSHU) Co.
PRODUCT NAME	5GHz ePMP Integrated Radio and 5GHz ePMP Connectorized Radio
PRODUCT MODEL NO.	C058900P072A, C058900C072A, C058900P062A, C058900C062A
PART NO.	142000001193A
REV	0B
CONDITION OF EUT WHEN RECEIVED	GOOD and in working condition
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AMENDMENT HISTORY

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1 TEST REPORT SUMMARY

Applicant	Cambium Networks			
Manufacturer	Gemtek Electronics (ChangSHU) Co.			
Equipment Under Test	5GHz ePMP Integrated Radio and 5GHz ePMP Connectorized Radio			
Model	C058900P072A, C058900C072A, C058900P062A, C058900C062A			
Serial number	Type of test	Serial no.	Wi-Fi MAC	Ethernet MAC
	Radiated& Conducted	AE50013163	000456F80301	000456F80300
Date of Submission	12 th May 2015			
Date of Test	12 th May 2015 to 25 th May 2015			
Venue of Test	Tarang Lab			

Applicable Standard	FCC Section	Description	Results
47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C; RSS-Gen, Issue 4, Nov 2014 RSS-210, Issue 8, Dec 2010	§15.407 (b) (3) & §15.407 (b) (6)	Undesirable emission outside the Intentional band	PASS



5GHz ePMP Integrated Radio and 5GHz ePMP Connectorized Radio was tested by Tarang Lab as per the standards that are listed in the table above. Based on the observations during the test and interpretations by Tarang lab, results have been indicated. The test results produced in this report shall apply only to the above sample that have been tested under the specific conditions and modes of testing as described in the report. Other similar equipment may not necessarily reproduce same result due to production tolerances and measurement uncertainties. Any measurement uncertainties listed in this report are for information purpose only.

The results shall stand invalid, in case there are any modifications / additions / removals to the hardware or software or end use atmosphere to the product tested. This report shall not be modified or in any way revised unless it is expressly permitted and endorsed by Tarang lab, through a duly authorized representative. Particulars on Manufacturer / Supplier / Product configuration / performance criteria, given in this report, are based on the information given by the customer, along with test request. Tarang does not assume any responsibility for the correctness of such information for the above mentioned equipment under test.

Customer acknowledges that this is a test report and not a certificate to gain market access for the product. To gain market access, Customer needs appropriate clearance from the Government or authorized agency for the target market. For markets that allow self-declaration, customer needs to follow the procedure defined by the target market.

Prepared by	Reviewed by	Approved by
		
Subhendu	Harsha	Rajneesh R
Test Engineer	Test Engineer	Functional Head



2 GENERAL INFORMATION

TEST DETAILS

The tests documented in this report are performed according to the following standards:

- ANSI C63.10-2013
- 47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C
- RSS-Gen, Issue 4, Nov 2014
- RSS-210, Issue 8, Dec 2010

TEST FACILITY DETAILS

All the tests were carried out at Tarang –Product Qualification and Compliance Planet located at Wipro Limited, SJP2, DoddaKanelli, Sarjapur road, Bangalore, Karnataka, India. 560035.

Following are the accreditation and listing details for Tarang.

Accreditation / Listing body	Registration / Company / Certificate Number
ISO 17025 Accreditation	Certificate Number :T-1533 and T-1534(NABL) http://www.nabl-india.org
FCC (Federal Communications Commission)	Registration Number: 799247 http://www.fcc.gov/
IC (Industry Canada)	Company Number: 9023A http://www.ic.gc.ca
TEC Approval	Certificate Number: TEC/MRA/CAB/IND-D/3 CAB Identification: IND003
DGAQA Approval	1415/F-15/DGAQA/Aircraft
CEMILAC approval	Certificate Number: F-07-22 Reference Number: CEMILAC/6042/TH-13/TC & S

3 INSTRUMENTATION AND CALIBRATION

TEST AND MEASURING EQUIPMENT

The list of following measuring equipment used for this testing conforms to the applicable standards. Performance of all test and measuring equipment including any accessories are checked periodically to ensure accuracy.

EQUIPMENTS USED

Name of Equipment	Manufacturer	Model No	Serial No	Calibration Due
EMI Test Receiver	R&S	ESIB40	100306	07 th Oct 2015
Spectrum Analyzer	Agilent Technologies	E4407B	MY45112948	02 nd Apr 2016
X-Series USB Peak & Average Power Sensor	Keysight Technologies	U2021XA	MY55050002	08 th Feb 2016
X-Series USB Peak & Average Power Sensor	Keysight Technologies	U2021XA	MY55050001	08 th Feb 2016
Tunable Band reject/Notch filter	Wainwright Instruments GmbH	WTRCJV8-5150-5850-40-160-50SSK	01	NA

4 PRODUCT INFORMATION

DESCRIPTION OF THE PRODUCT

EUT is a Point to point & Point to Multipoint Fixed outdoor Transceiver.

Product Category / Type of Equipment	TEL (Telecom)
EUT Operating AC Voltage	120V AC
Max EUT AC Operating Current	0.5A
Max EUT AC Power Rating	60W
EUT Operating DC Voltage	30V DC
Max EUT DC Operating Current	0.5A
Max EUT DC Power Rating	12W

SOFTWARE AND FIRMWARE DETAILS

The 5GHz ePMP Integrated Radio and 5GHz ePMP Connectorized Radio was configured with test software and configured to have the following settings during the course of testing:

- 40MHz modulation bandwidth for low Channel (CH 0)
 - o Rate - HT40,
 - o 54Mbps OFDM, MCS15:270Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 86 for 2.15dBi antenna configuration
 - o Tx gain is 55for 17dBi antenna configuration
 - o Tx gain is 42 for 24dBi antenna configuration
- 40MHz modulation bandwidth for low Channel (CH 1)
 - o Rate - HT40,
 - o 54Mbps OFDM, MCS15:270Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 90 for 2.15dBi antenna configuration
 - o Tx gain is 63 for 17dBi antenna configuration
 - o Tx gain is 46 for 24dBi antenna configuration
- 40MHz modulation bandwidth for Mid Channel (CH 0)
 - o Rate - HT40,
 - o 54Mbps OFDM, MCS15:270Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 103 for 2.15dBi antenna configuration
 - o Tx gain is 82 for 17dBi antenna configuration
 - o Tx gain is 66 for 24dBi antenna configuration

-
- 40MHz modulation bandwidth for Mid Channel (CH 1)
 - o Rate - HT40,
 - o 54Mbps OFDM, MCS15:270Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 108 for 2.15dBi antenna configuration
 - o Tx gain is 88 for 17dBi antenna configuration
 - o Tx gain is 68 for 24dBi antenna configuration
 - 40MHz modulation bandwidth for High Channel (CH 0)
 - o Rate - HT40,
 - o 54Mbps OFDM, MCS15:270Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 79 for 2.15dBi antenna configuration
 - o Tx gain is 48 for 17dBi antenna configuration
 - o Tx gain is 33 for 24dBi antenna configuration
 - 40MHz modulation bandwidth for High Channel (CH 1)
 - o Rate - HT40,
 - o 54Mbps OFDM, MCS15:270Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 80 for 2.15dBi antenna configuration
 - o Tx gain is 50 for 17dBi antenna configuration
 - o Tx gain is 36 for 24dBi antenna configuration
 - 5MHz modulation bandwidth for low Channel (CH 0)
 - o Rate – HT20,
 - o 54Mbps OFDM, MCS15:130Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 94 for 2.15dBi antenna configuration
 - o Tx gain is 73 for 17dBi antenna configuration
 - o Tx gain is 55 for 24dBi antenna configuration
 - 5MHz modulation bandwidth for low Channel (CH 1)
 - o Rate – HT20,
 - o 54Mbps OFDM, MCS15:130Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 98 for 2.15dBi antenna configuration
 - o Tx gain is 75 for 17dBi antenna configuration
 - o Tx gain is 60 for 24dBi antenna configuration

-
- 5MHz modulation bandwidth for Mid Channel (CH 0)
 - o Rate – HT20,
 - o 54Mbps OFDM, MCS15:130Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 108 for 2.15dBi antenna configuration
 - o Tx gain is 80 for 17dBi antenna configuration
 - o Tx gain is 66 for 24dBi antenna configuration
 - 5MHz modulation bandwidth for Mid Channel (CH 1)
 - o Rate – HT20,
 - o 54Mbps OFDM, MCS15:130Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 110 for 2.15dBi antenna configuration
 - o Tx gain is 80 for 17dBi antenna configuration
 - o Tx gain is 66 for 24dBi antenna configuration
 - 5MHz modulation bandwidth for High Channel (CH 0)
 - o Rate – HT20,
 - o 54Mbps OFDM, MCS15:130Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 53 for 2.15dBi antenna configuration
 - o Tx gain is 30 for 17dBi antenna configuration
 - o Tx gain is 17 for 24dBi antenna configuration
 - 5MHz modulation bandwidth for High Channel (CH 1)
 - o Rate – HT20,
 - o 54Mbps OFDM, MCS15:130Mbps
 - o Interframe spacing is tx100
 - o Tx gain is 62 for 2.15dBi antenna configuration
 - o Tx gain is 34 for 17dBi antenna configuration
 - o Tx gain is 19 for 24dBi antenna configuration

The unit was continuously monitored for transmission using an auxiliary antenna during the radiated tests



LIST OF PRODUCT CABLES

Cable No.	Cable Name	Cable Length	Power / Interconnection cable	Shielded / Unshielded
Cable - 1	Cat. 5E_Ethernet cable	0.5 meter	Interconnection	Unshielded
Cable - 2	Cat. 5E_Ethernet cable	2 meter	Interconnection	Unshielded
Cable - 3	RF cable (50 Ω)	0.125 meter	Interconnection	Shielded
Cable - 4	Power Cord	0.8 meter	Power	Unshielded

5 TEST DETAILS

PRODUCT AND TEST SETUP

5.1.1 PRODUCT CONFIGURATION

The EUT was powered through AC power supply (120VAC / 60Hz). The EUT was connected to Ethernet switch by using RJ45 cable. Figure 1 shows the product configuration during the tests. Following power supply module was used during the test to power ON the EUT.

Name of the Equipment	Manufacturer	Model Number	Serial Number
Switching Power Supply Gigabit Compatible	PHIHONG	PSA15M-300 (AP)	N000900L001A

5.1.2 TEST SETUP DETAILS

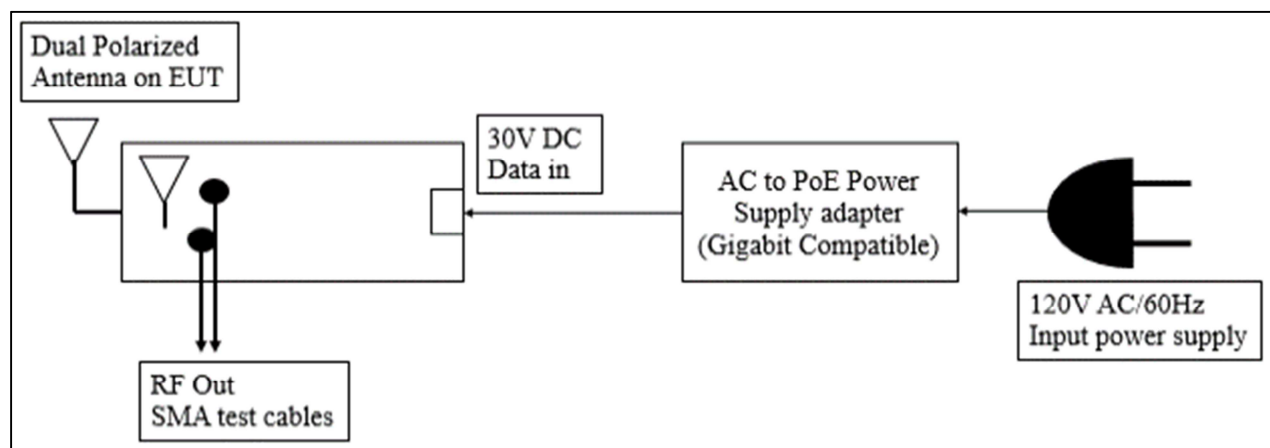


Figure 1: Block Diagram of the EUT test setup during the tests

5.1.3 ACCESSORIES

Name of the Equipment	Manufacturer	Model Number	Serial Number
Laptop	Wipro Technologies Ltd	WLG7E1100	1221



APPLICABLE TESTS

Applicable Standard	Description	Test level / Test Voltage	Applicability
47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C; RSS-Gen, Issue 4, Nov 2014 RSS-210 Issue 8, Dec 2010	Undesirable emission outside the Intentional band-Conducted	EIRP of < -27dBm/MHz	Antenna port

TEST RESULT

5.3.1 UNDESIRABLE EMISSION OUTSIDE THE INTENTIONAL BAND

5.3.1.1 TEST SPECIFICATION

Test Standard	47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C RSS-Gen, Issue 4, Nov 2014			
Test Procedure	ANSI C63.10-2013			
Frequency Range	9 kHz to 150kHz	150kHz to 30MHz	30MHz to 1GHz	1GHz to 40GHz
Resolution Bandwidth	200Hz	9kHz	120kHz	1MHz
Video Bandwidth	1kHz	30kHz	300kHz	3MHz
Sweep Time	Auto			
Attenuation	Auto			
Test Mode	Conducted			
Detector	Peak & Average			
Input Voltage	120V AC			
Input Frequency	60 Hz			
Temperature	22.0°C			
Humidity	56.0%			
Tested By	Subhendu			
Test Date	12 th May to 25 th May 2015			

5.3.1.2 LIMITS

Standard	FCC Section	Antenna condition	Calculated Limit
47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C RSS-Gen, Issue 4, Nov 2014	15.407 (b) (3)	2.15dBi Antenna	-32.15dBm/MHz
		17dBi Antenna	-47dBm/MHz
		24dBi dish	-54dBm/MHz
47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C RSS-Gen, Issue 4, Nov 2014	15.407 (b) (6)	Limit	
		As per clause 15.209	

Limit as per standard is -27dBm/MHz. In this condition we have to consider MIMO condition & take 3dB Factor and also the antenna gain needs to be considered.

Calculated limit = -27dBm/MHz – 3 – Antenna gain

5.3.1.3 TEST SETUP

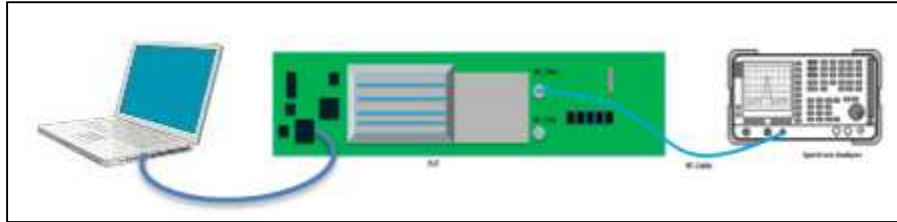


Figure 2: Typical test setup for Conducted Test setup

5.3.1.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per Sections H(1), H(2), H(3), H(4), H(5) & H(6) of “789033 D02 General UNII Test Procedures New Rules v01r01”. The RF output of the EUT was connected to the input port of Spectrum analyzer using an attenuator. Captured the data from spectrum analyzer and compared with the limits specified in the standard.

5.3.1.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.1.5.1 40MHz MODULATION BW - Low CHANNEL_5180MHz

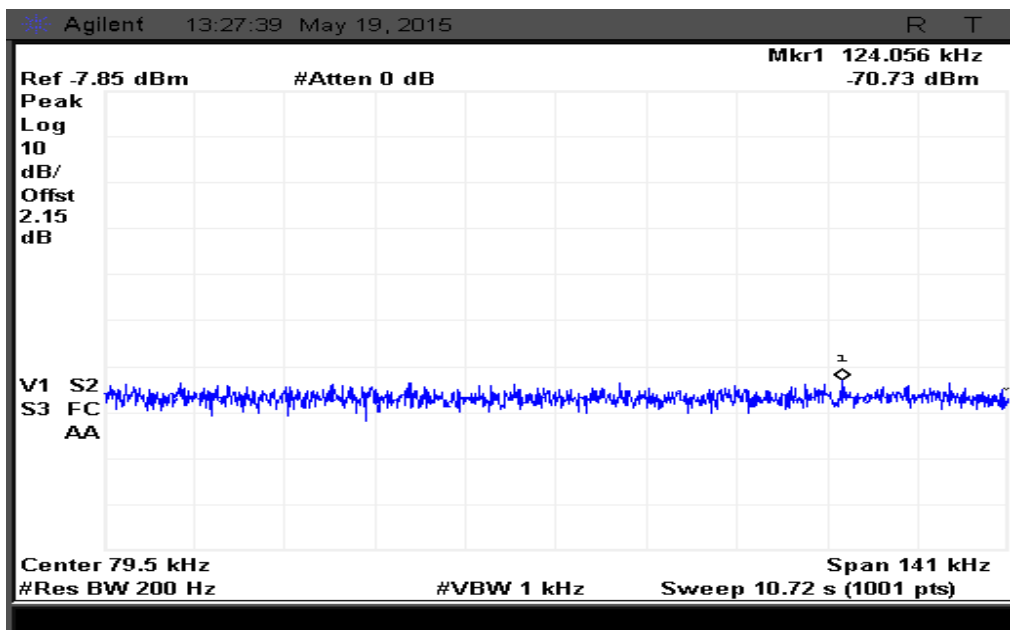


Figure 3: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

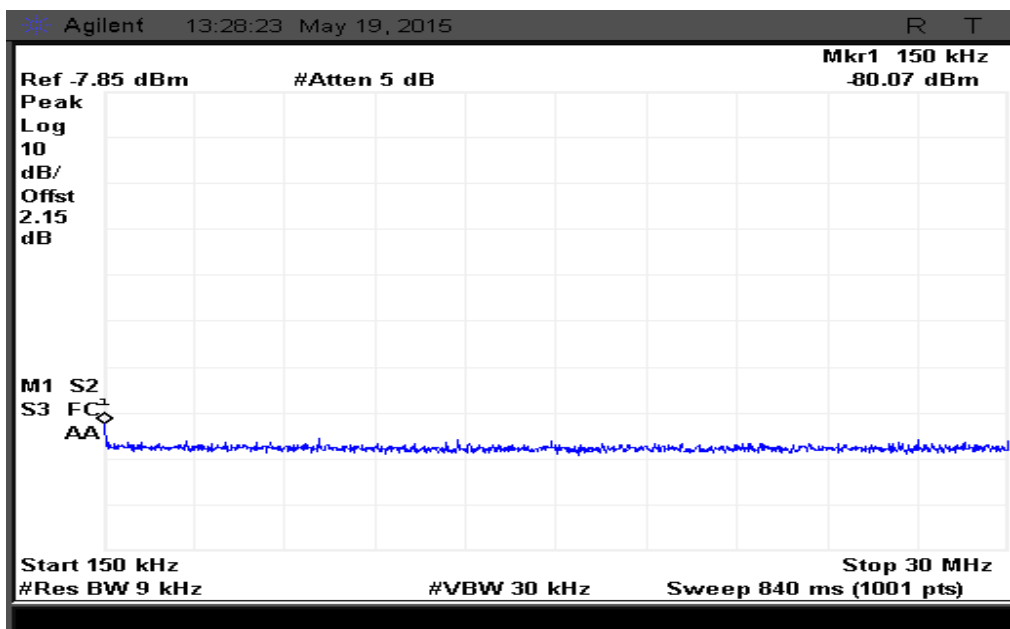


Figure 4: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

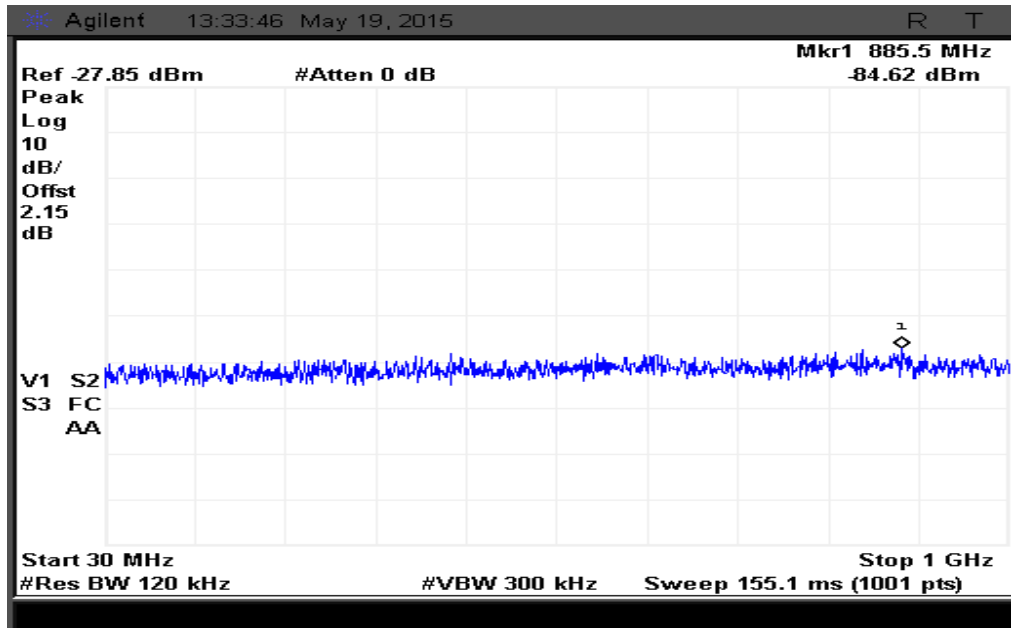


Figure 5: Spurious emission measured from 30 MHz to 1GHz at Ch. 0-Peak

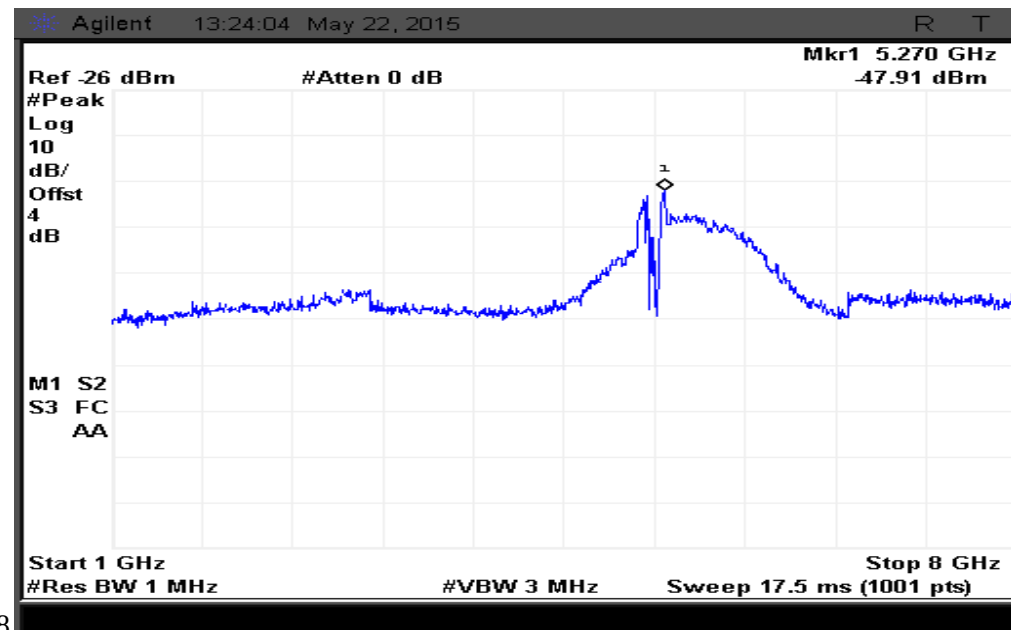


Figure 6: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

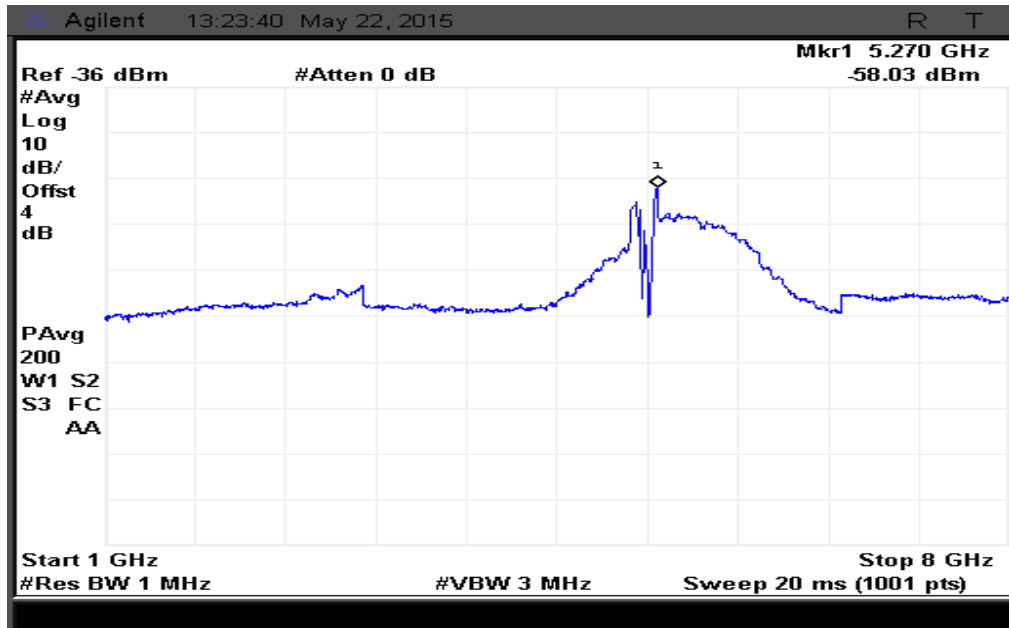


Figure 7: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

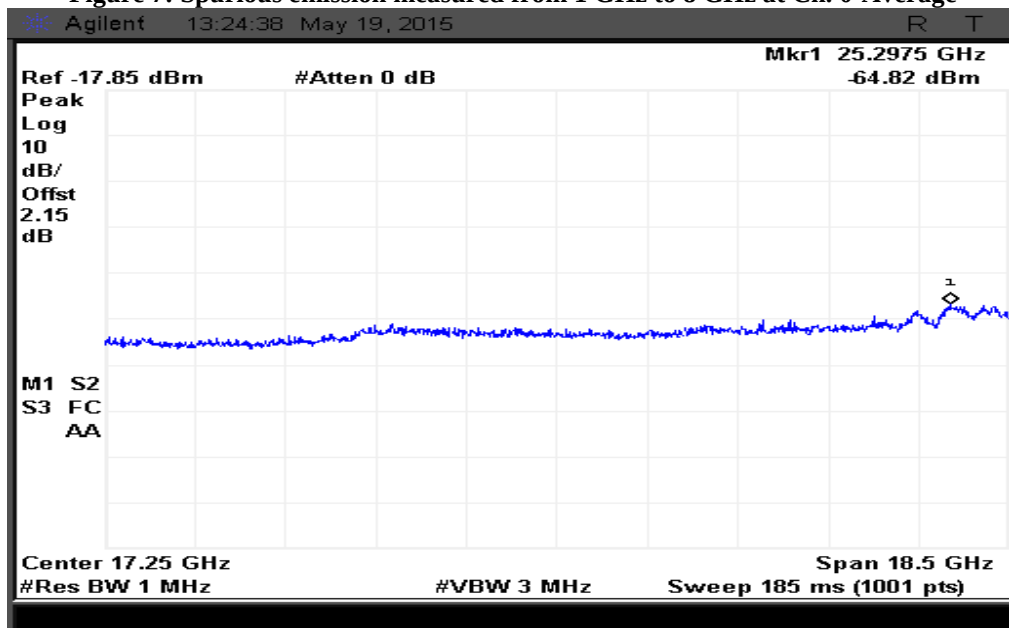


Figure 8: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

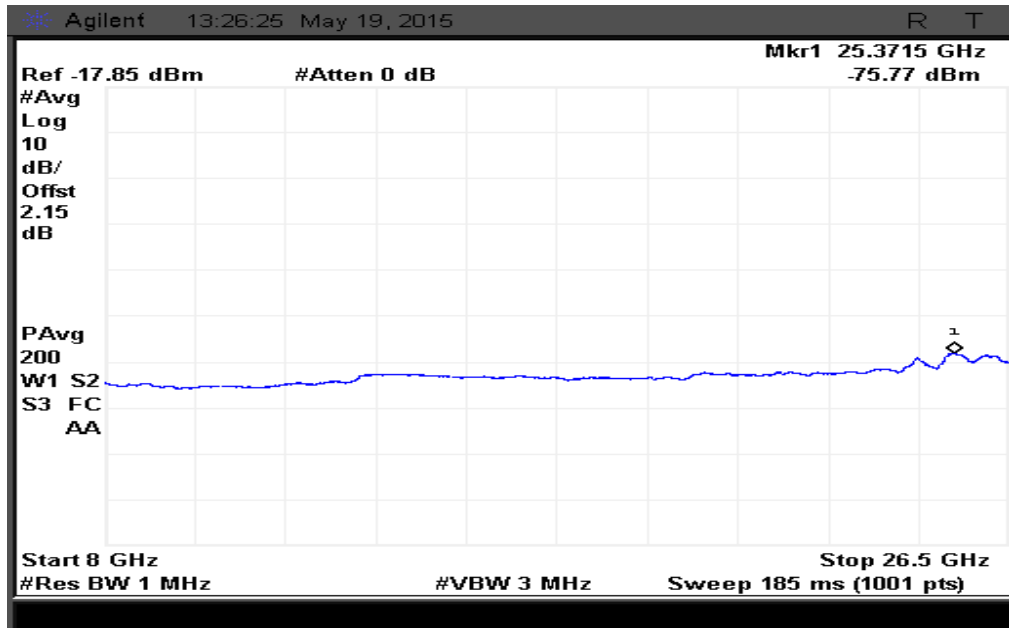


Figure 9: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

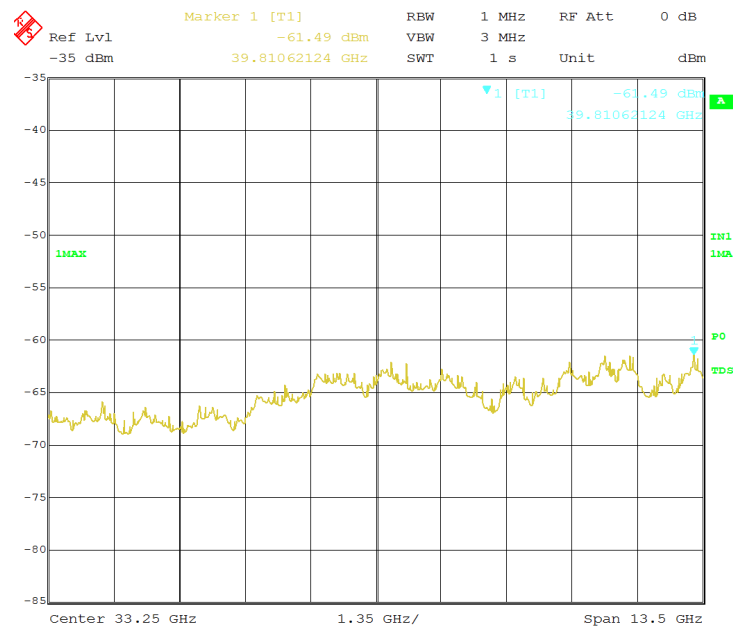


Figure 10: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

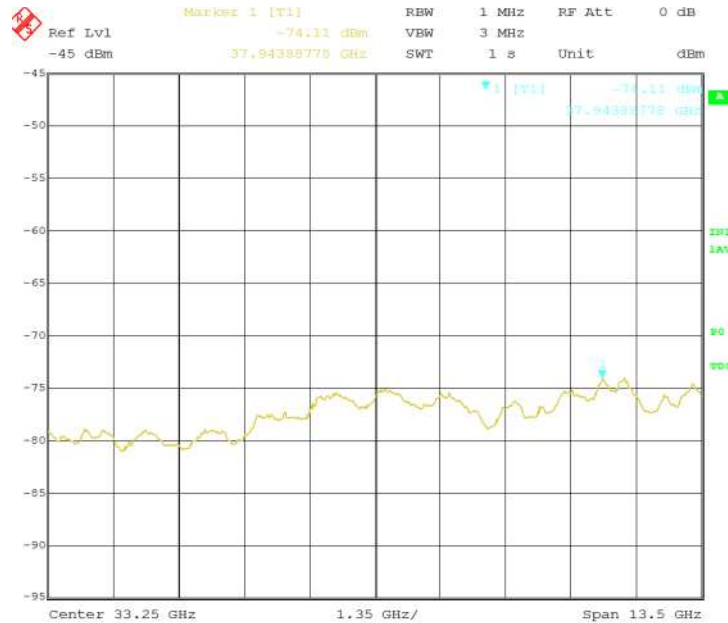


Figure 11: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg

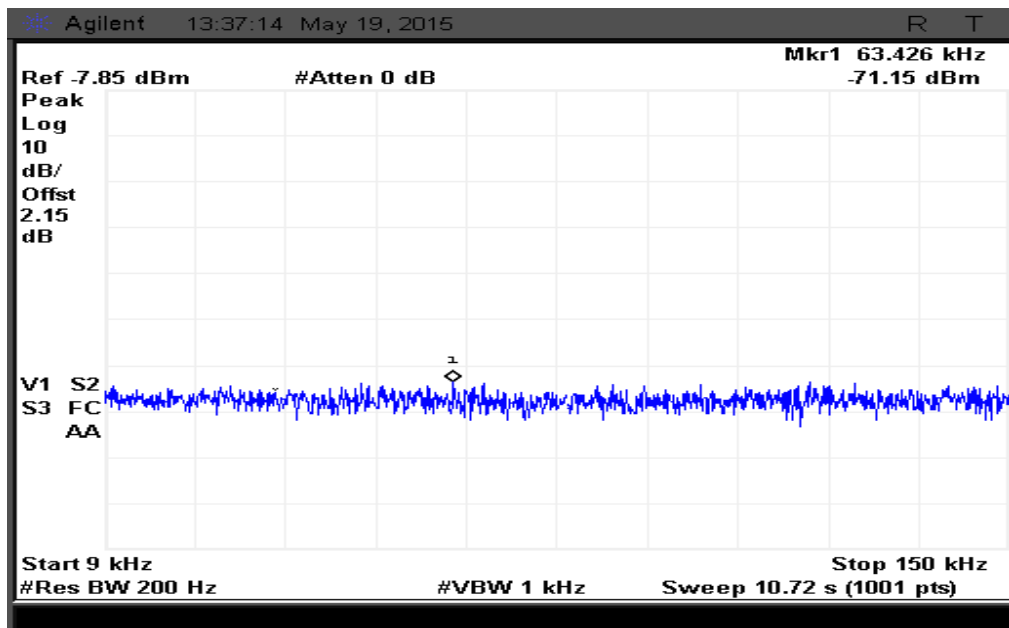


Figure 12: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

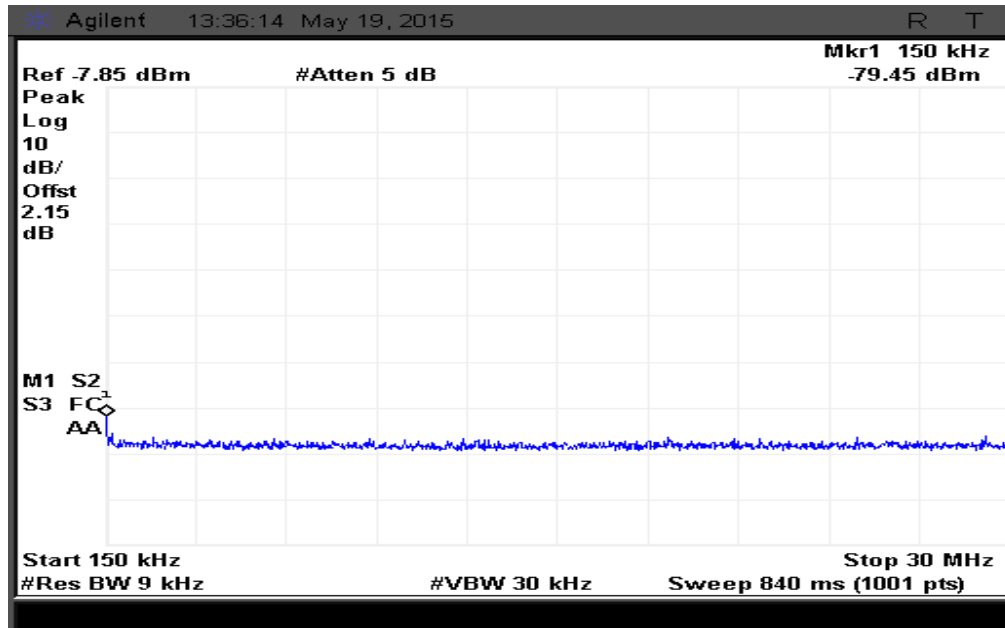


Figure 13: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

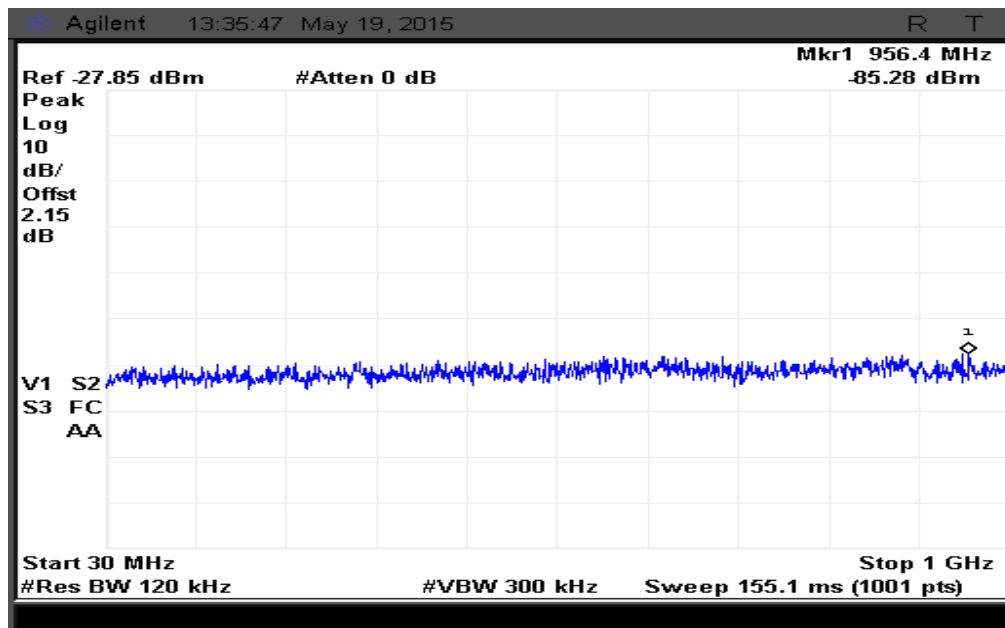


Figure 14: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

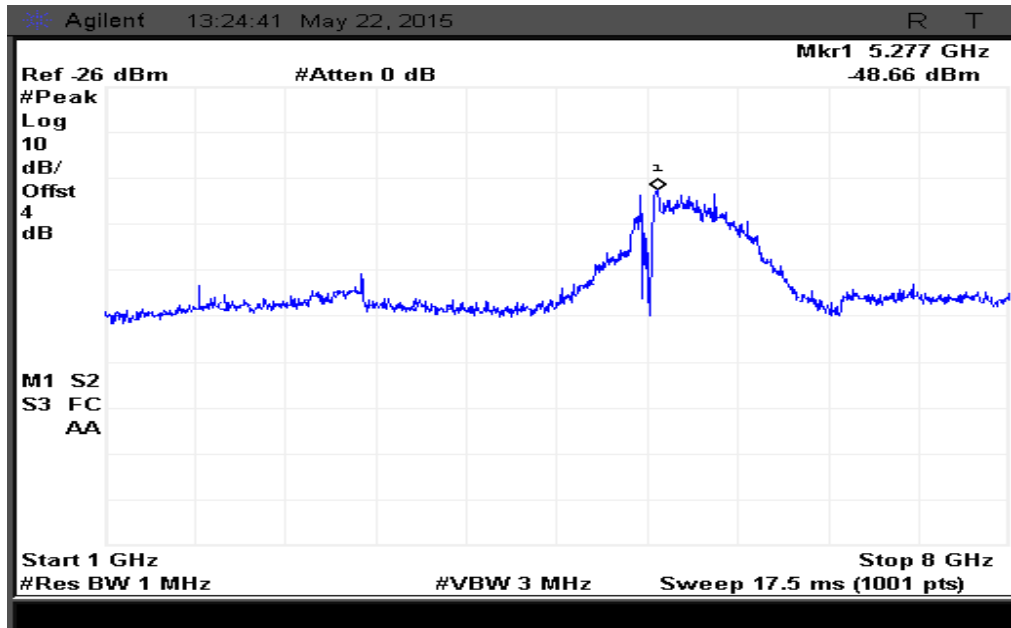


Figure 15: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

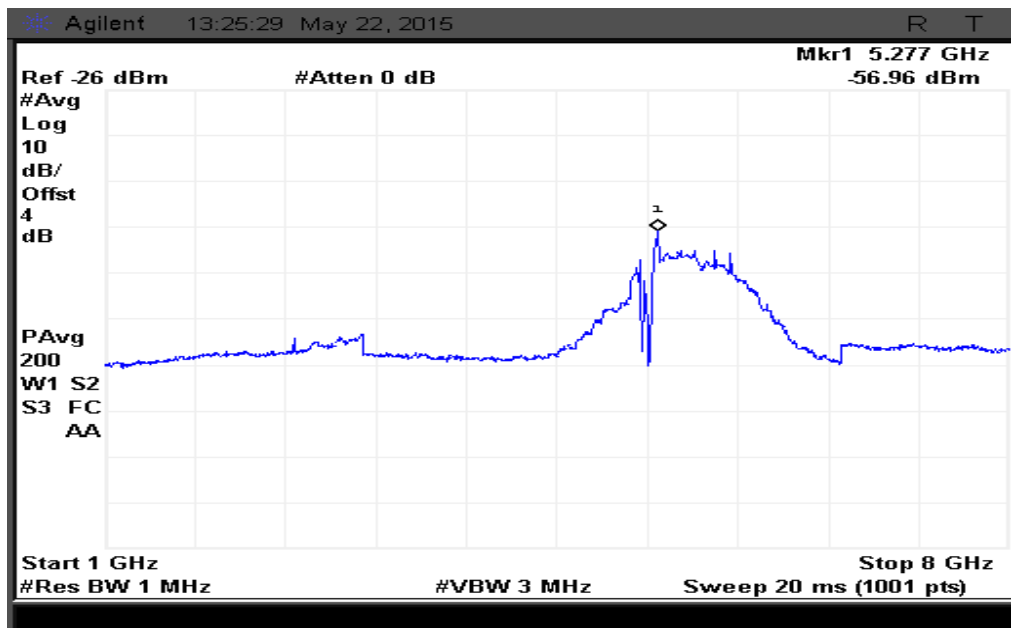


Figure 16: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

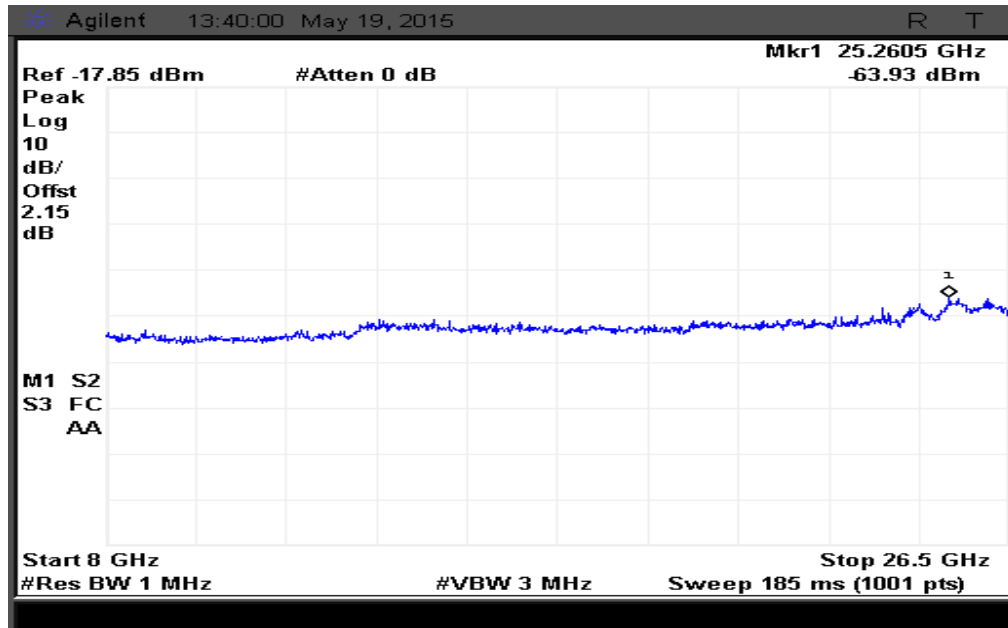


Figure 17: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

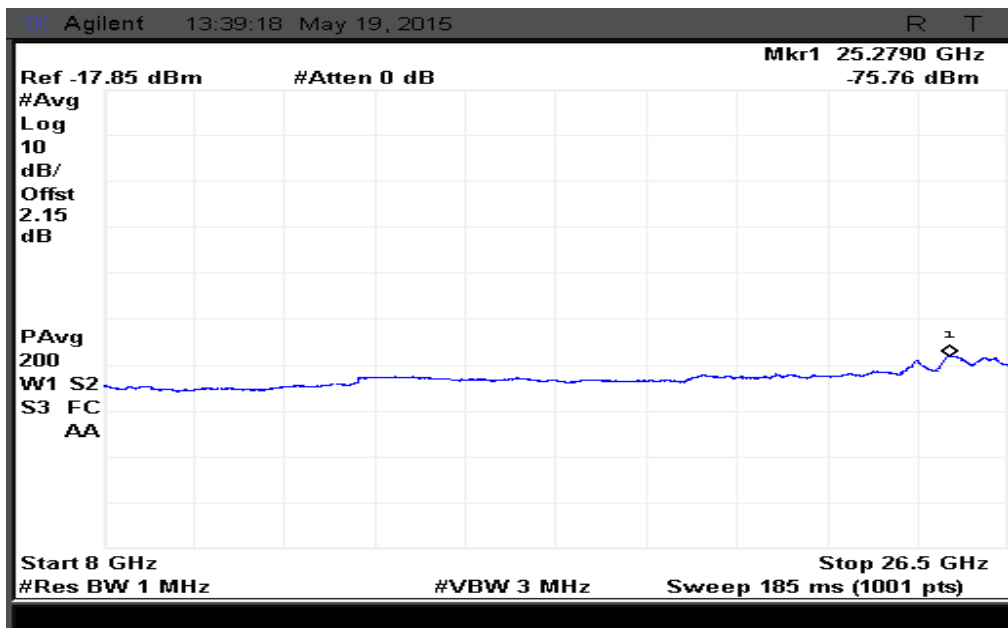


Figure 18: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

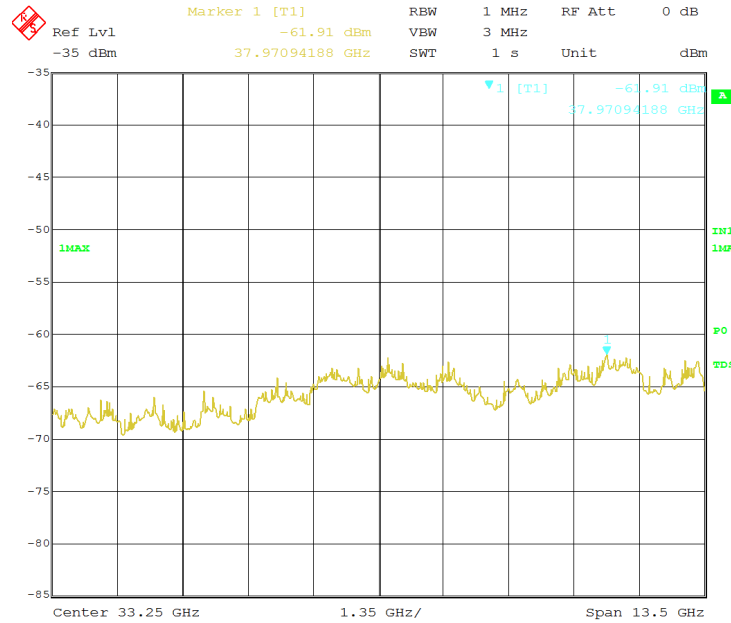


Figure 19: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Avg

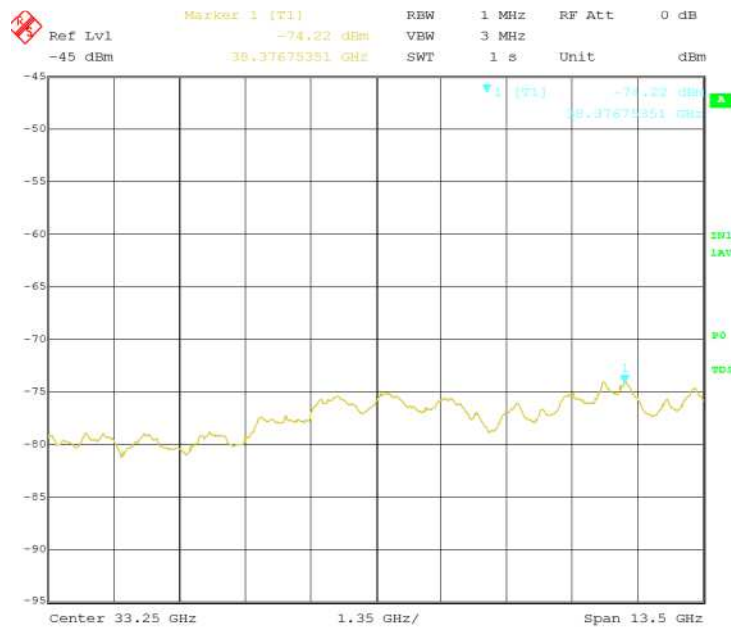


Figure 20: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.5.2 40MHz MODULATION BW - MID CHANNEL_5200MHz

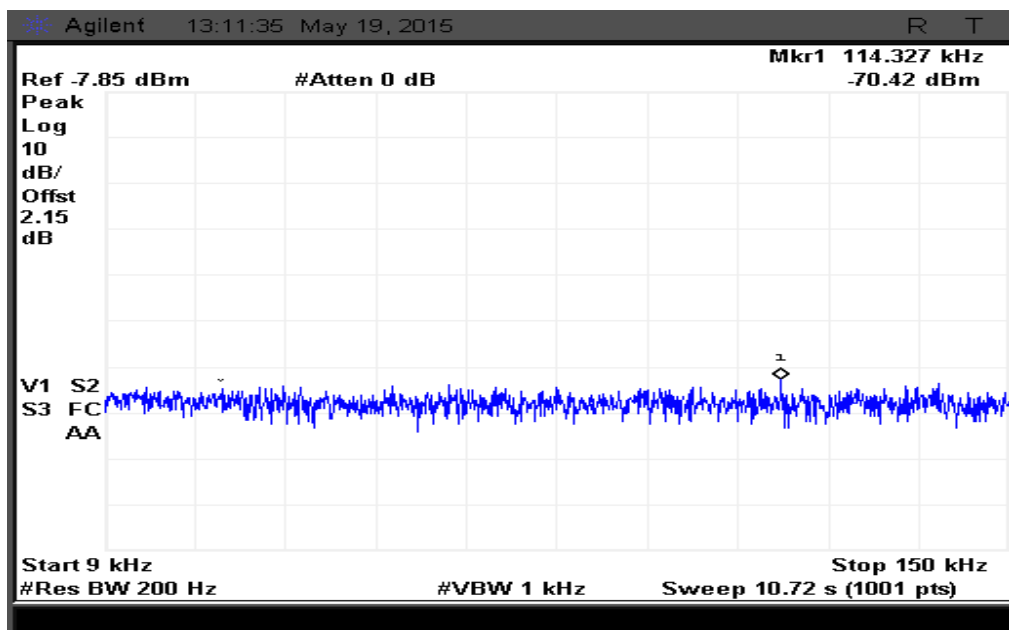


Figure 21: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

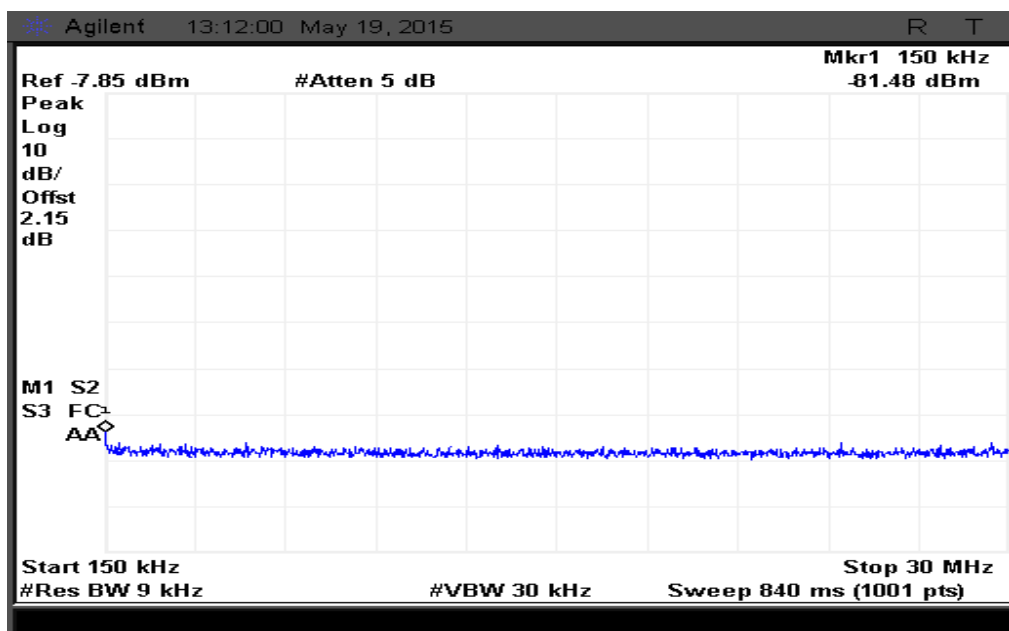


Figure 22: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

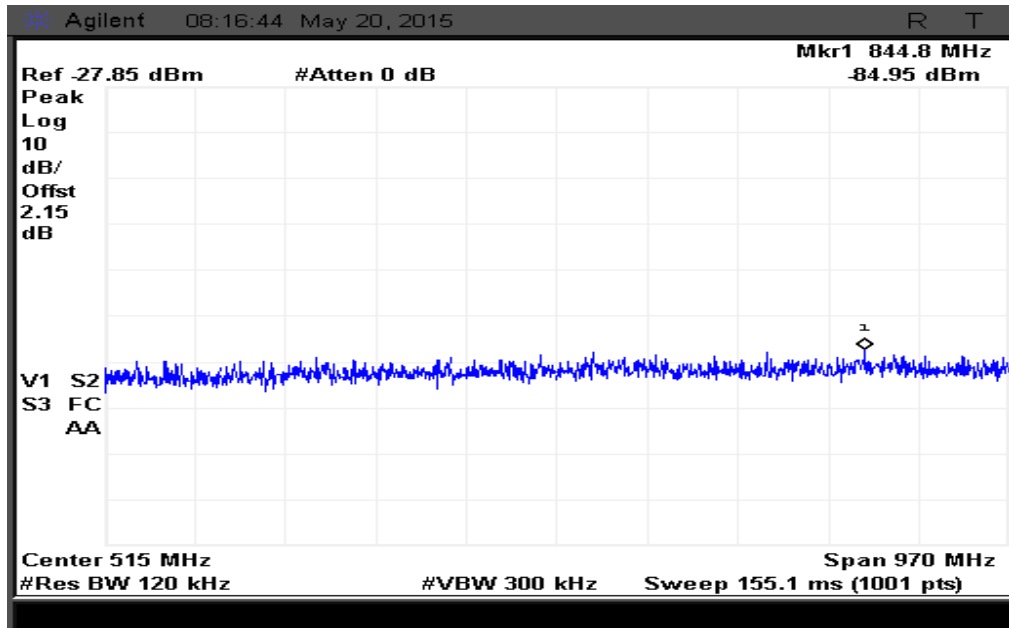


Figure 23: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

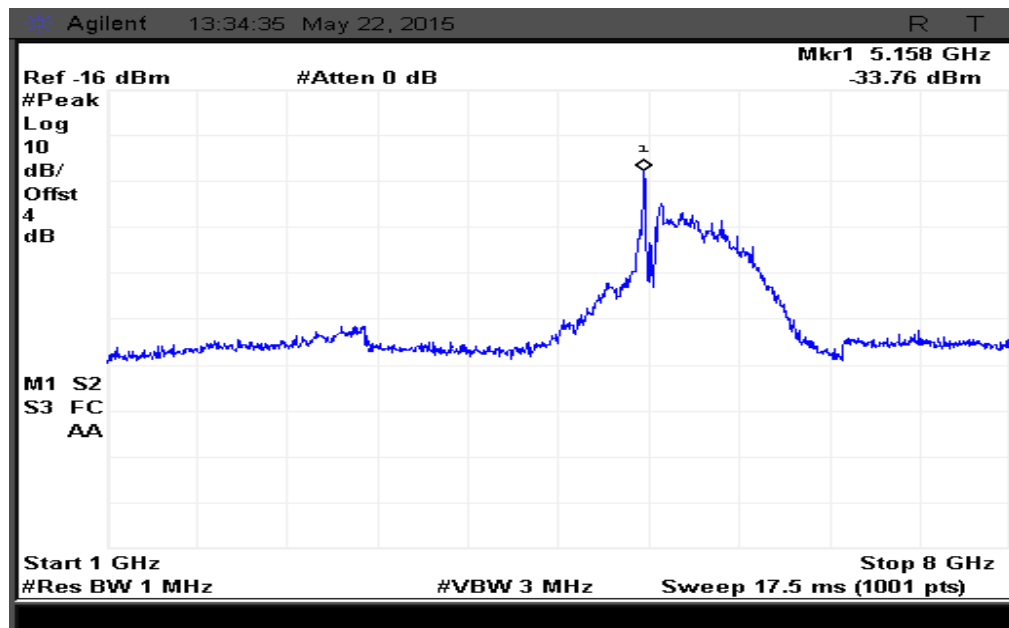


Figure 24: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

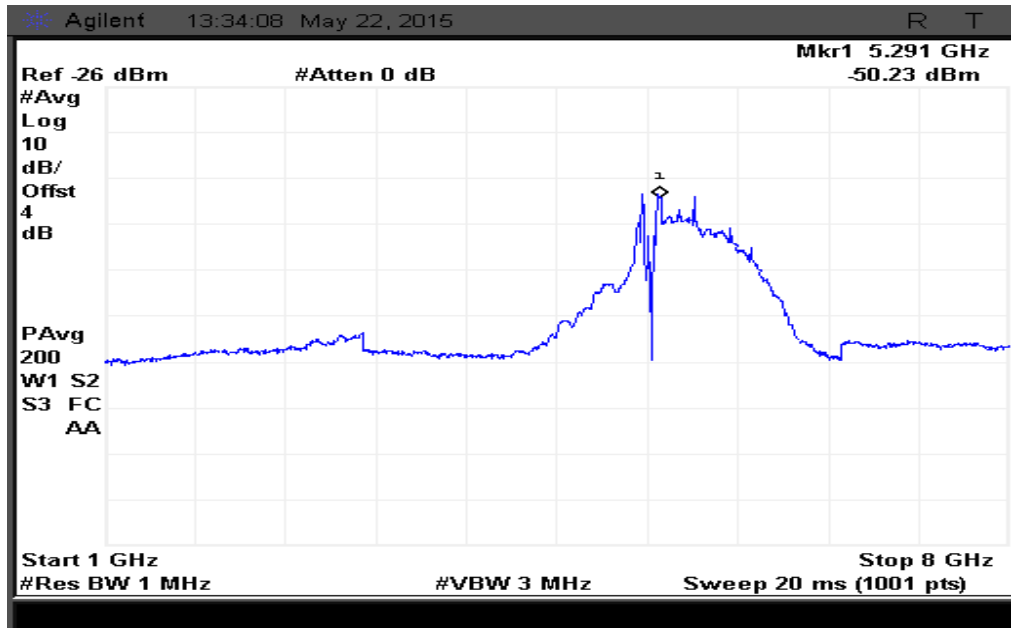


Figure 25: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

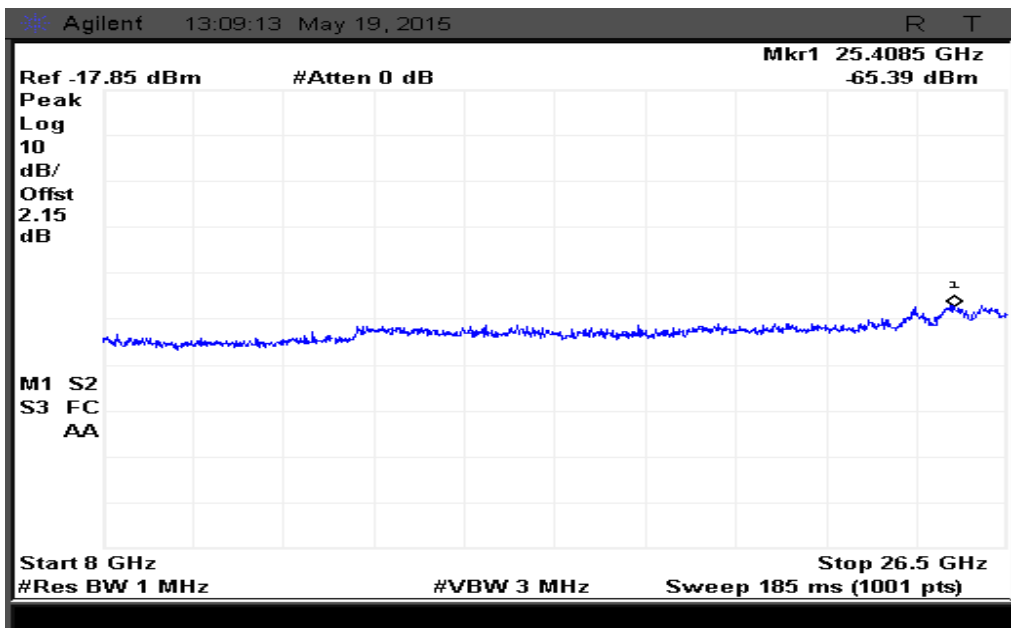


Figure 26: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

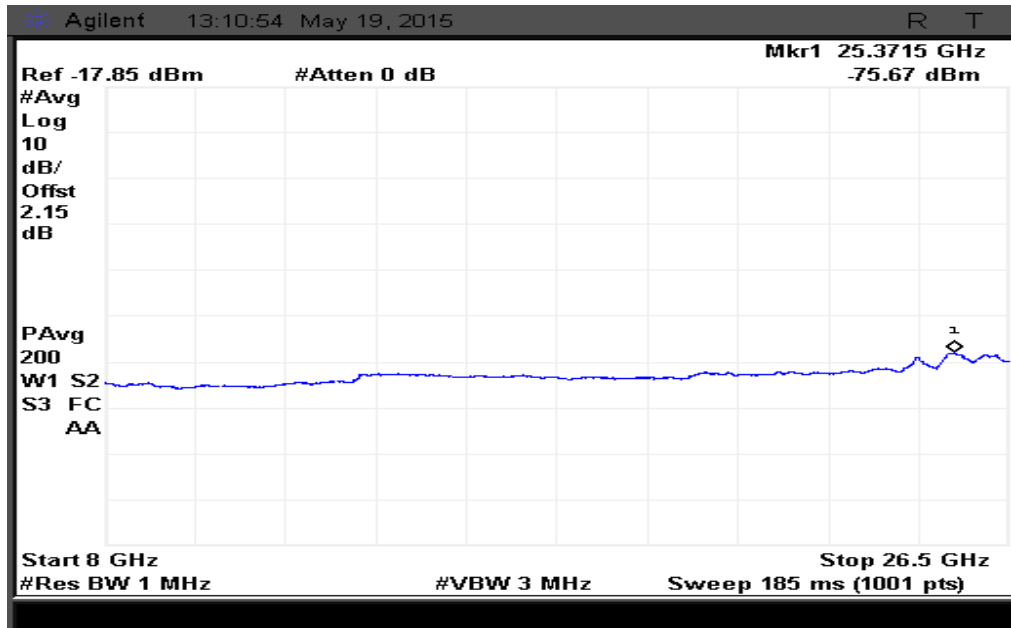


Figure 27: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

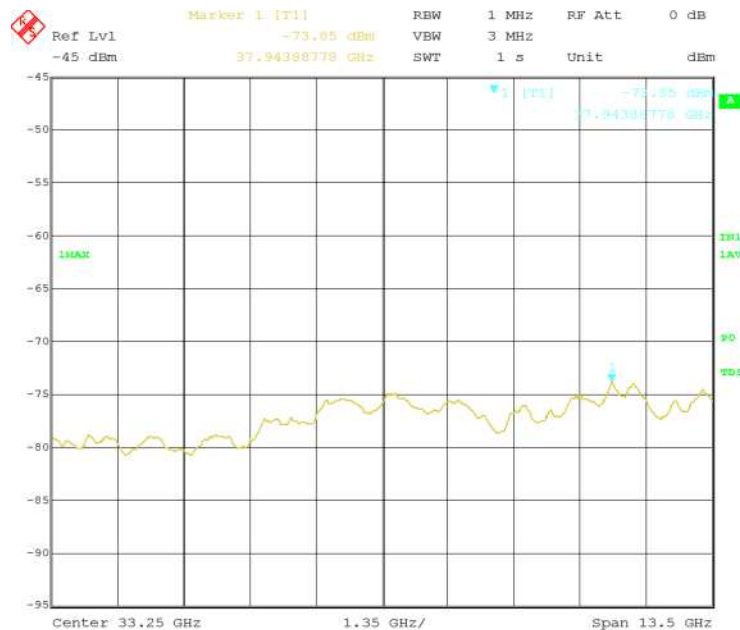


Figure 28: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

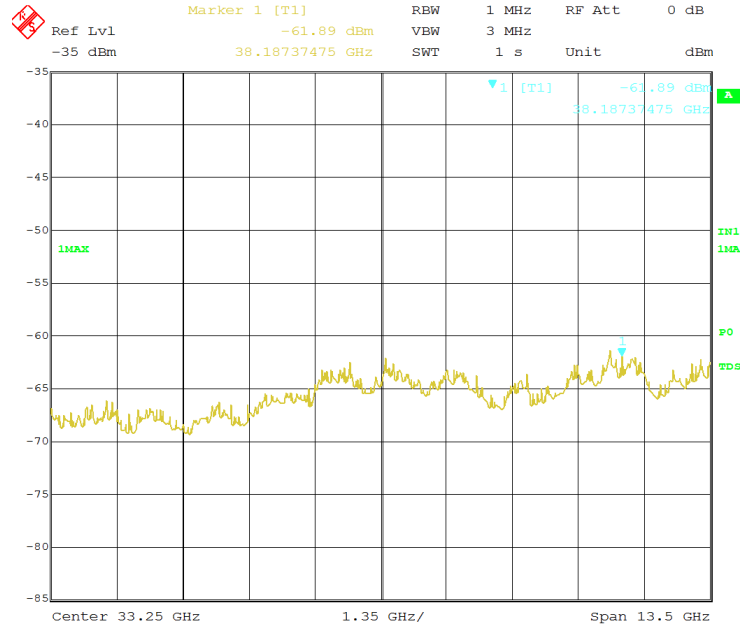


Figure 29: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

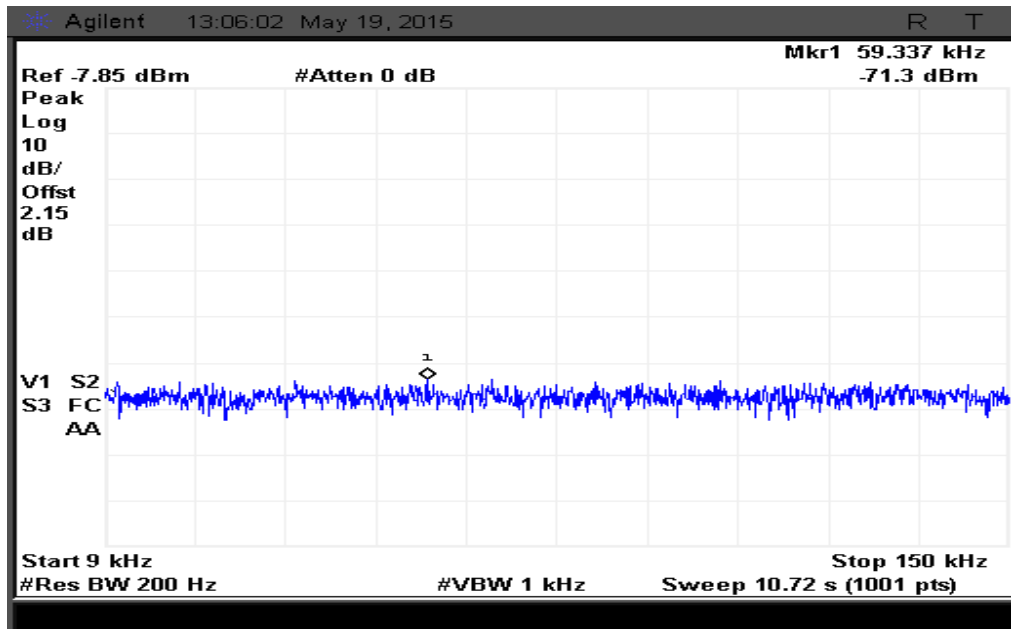


Figure 30: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

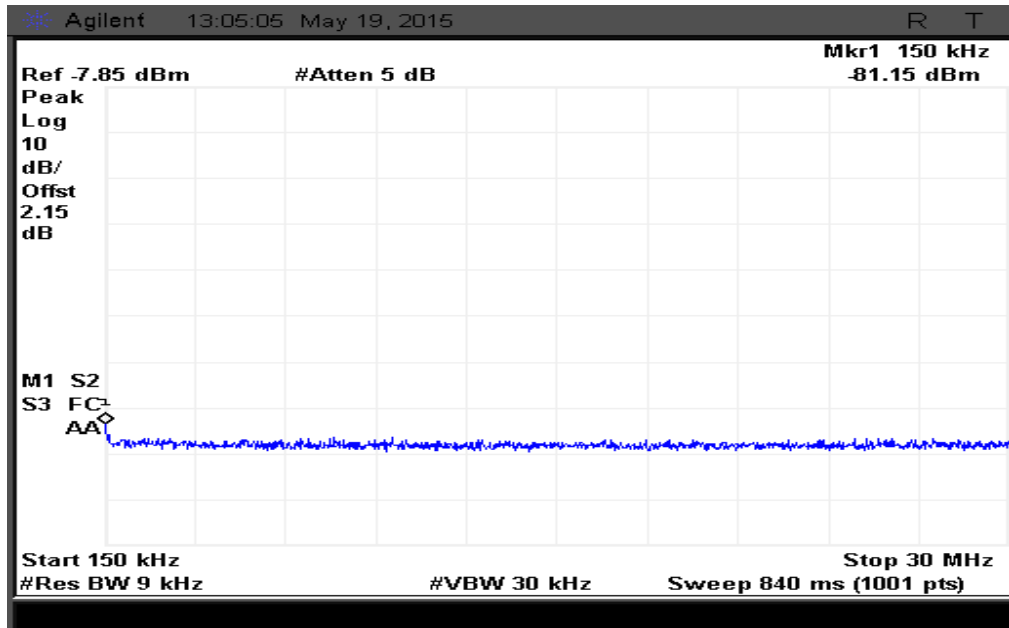


Figure 31: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

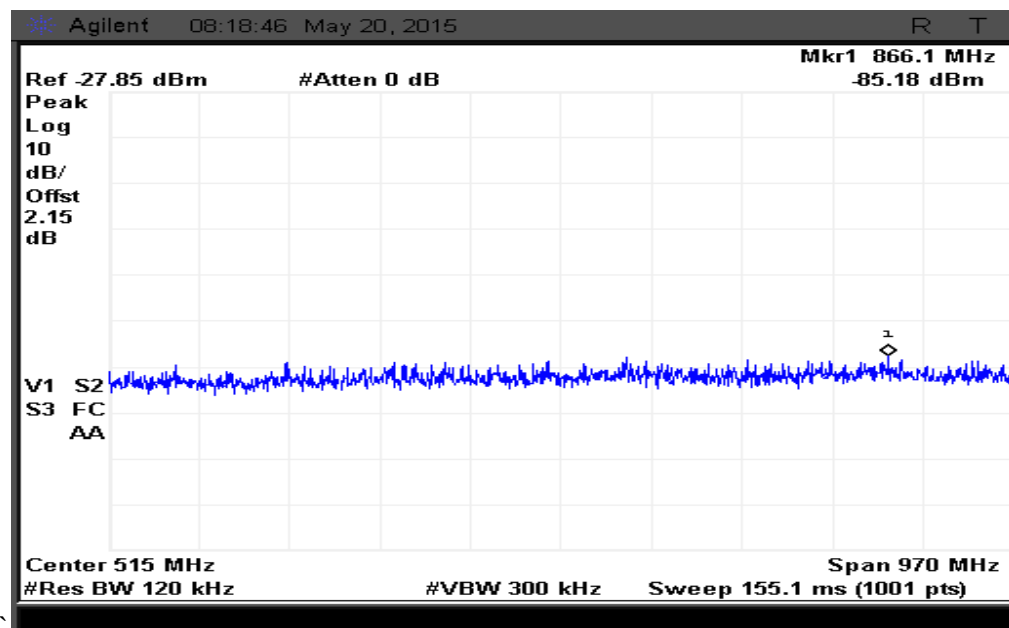


Figure 32: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

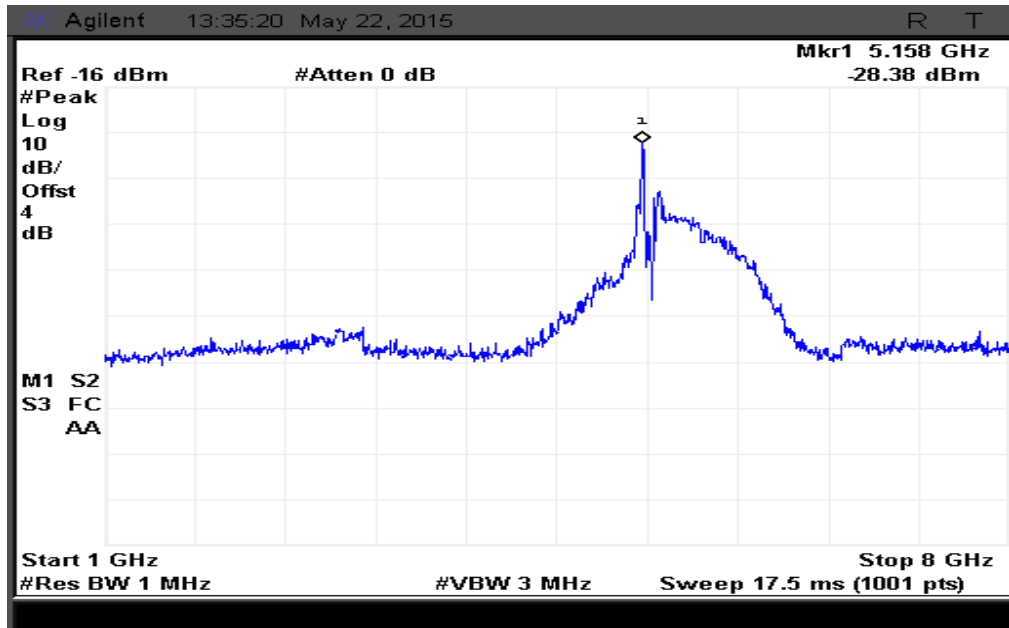


Figure 33: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

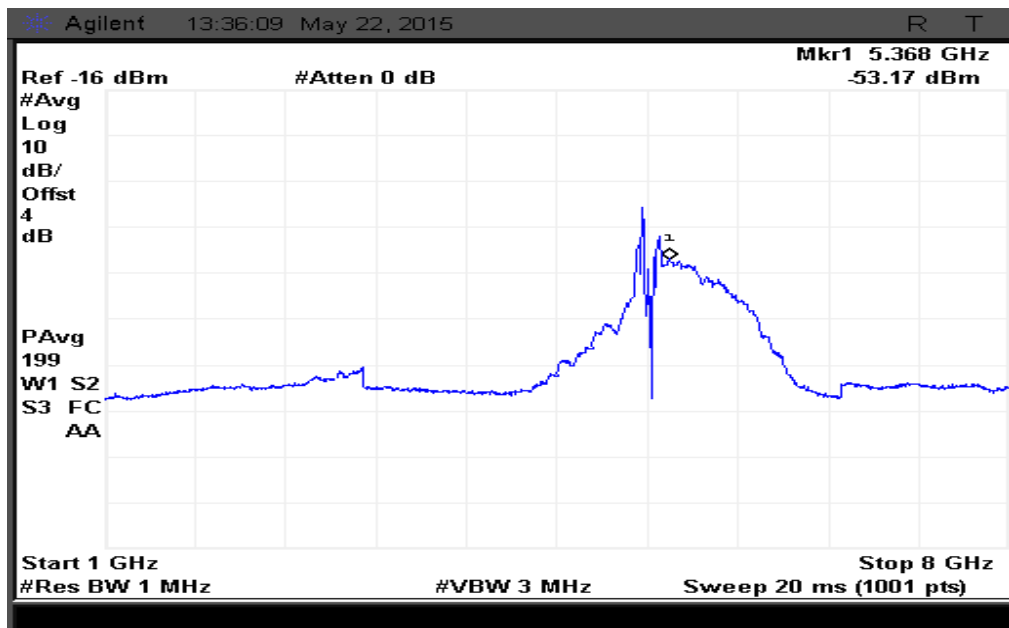


Figure 34: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

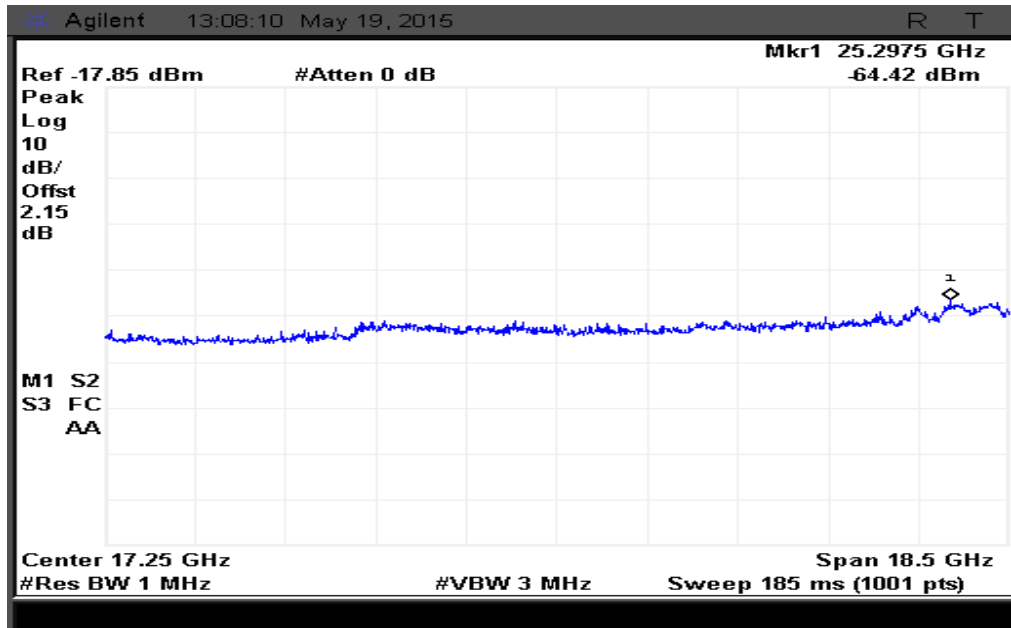


Figure 35: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

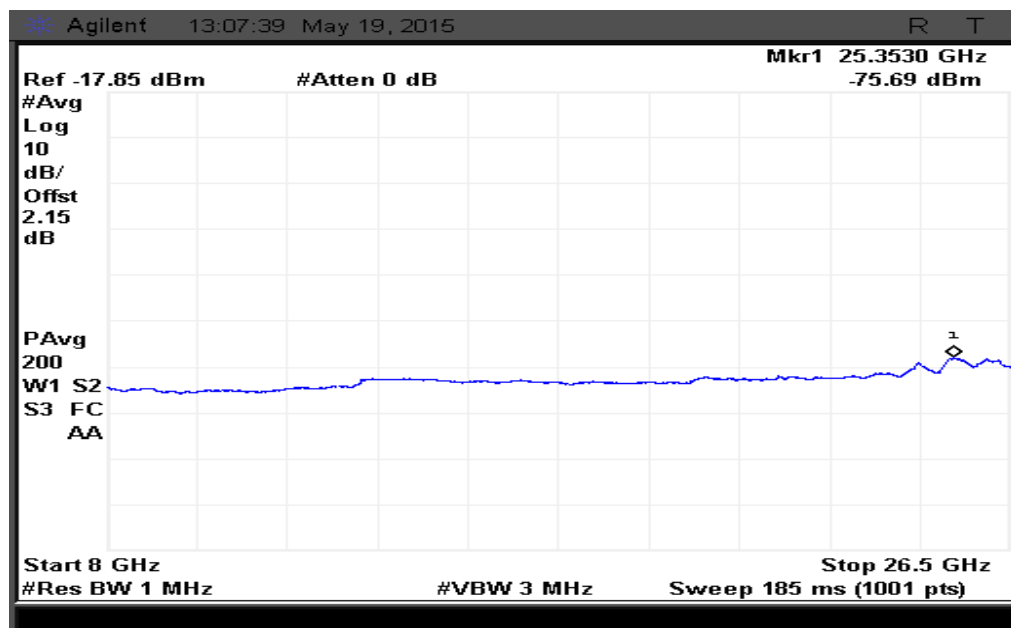


Figure 36: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

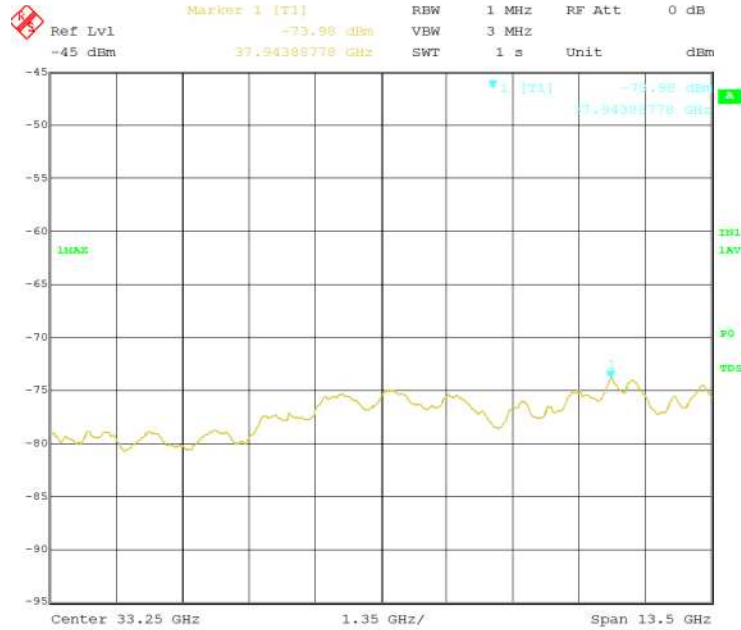


Figure 37: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

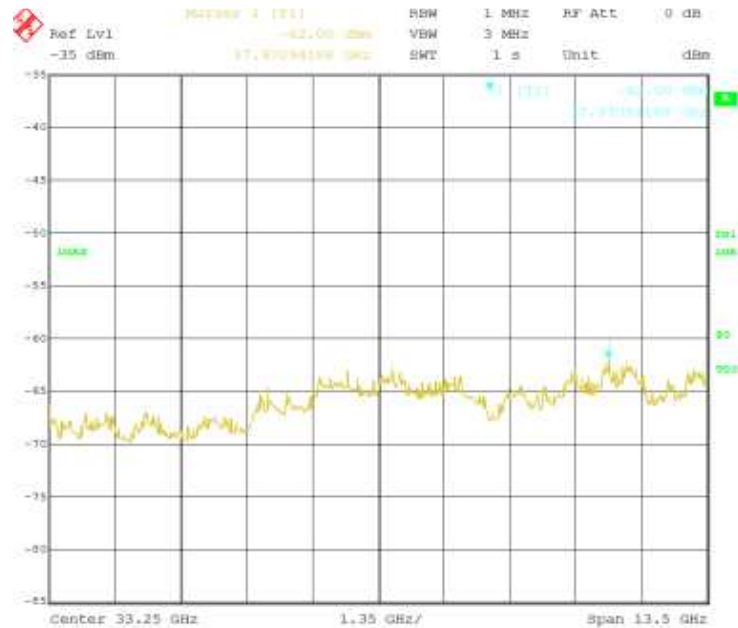


Figure 38: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.5.3 40MHz MODULATION BW - HIGH CHANNEL_5220MHZ

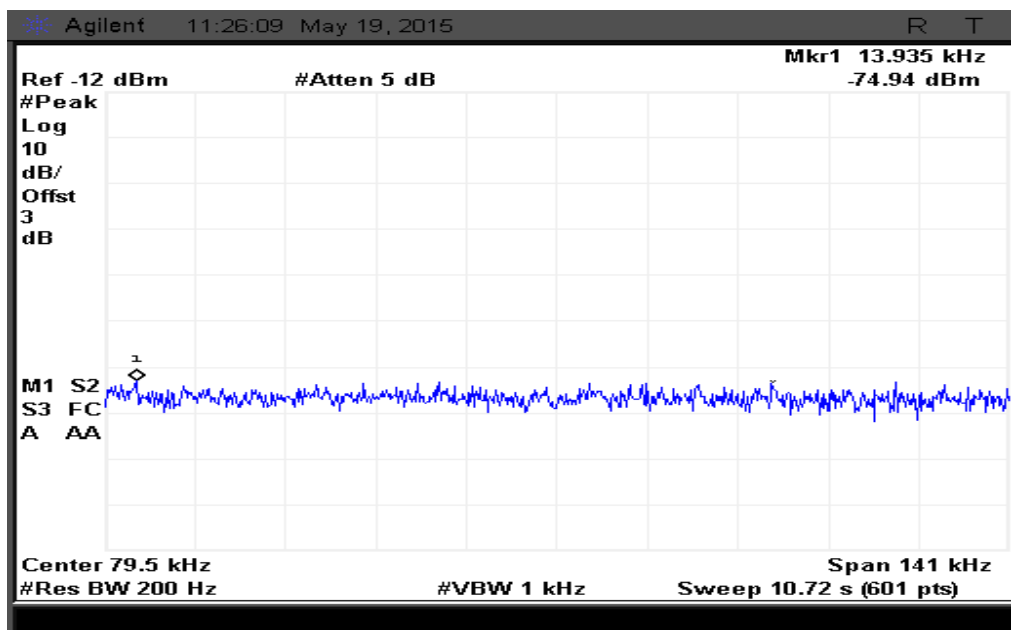


Figure 39: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

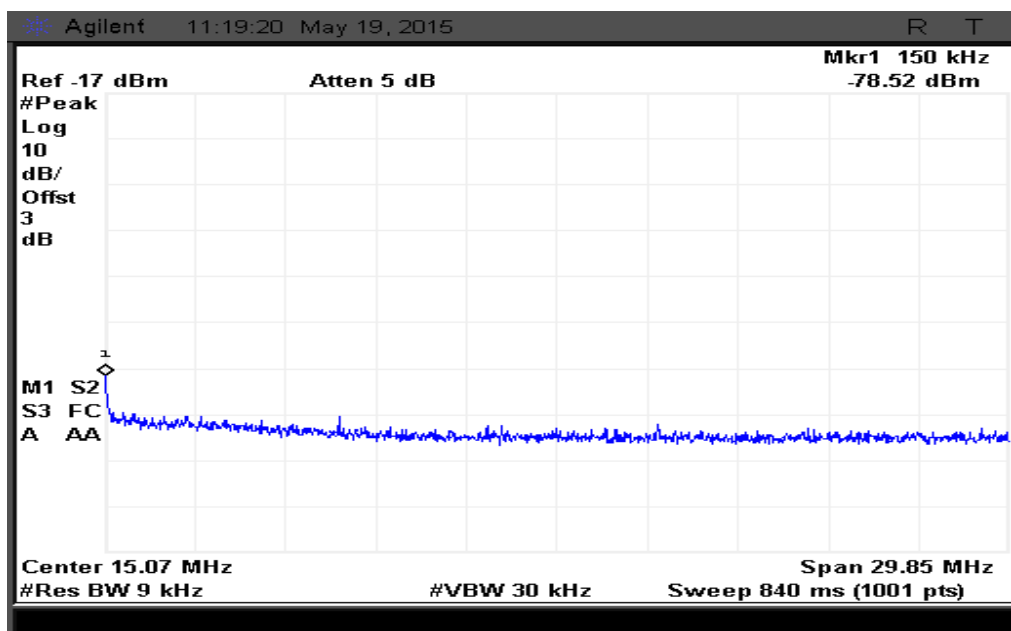


Figure 40: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

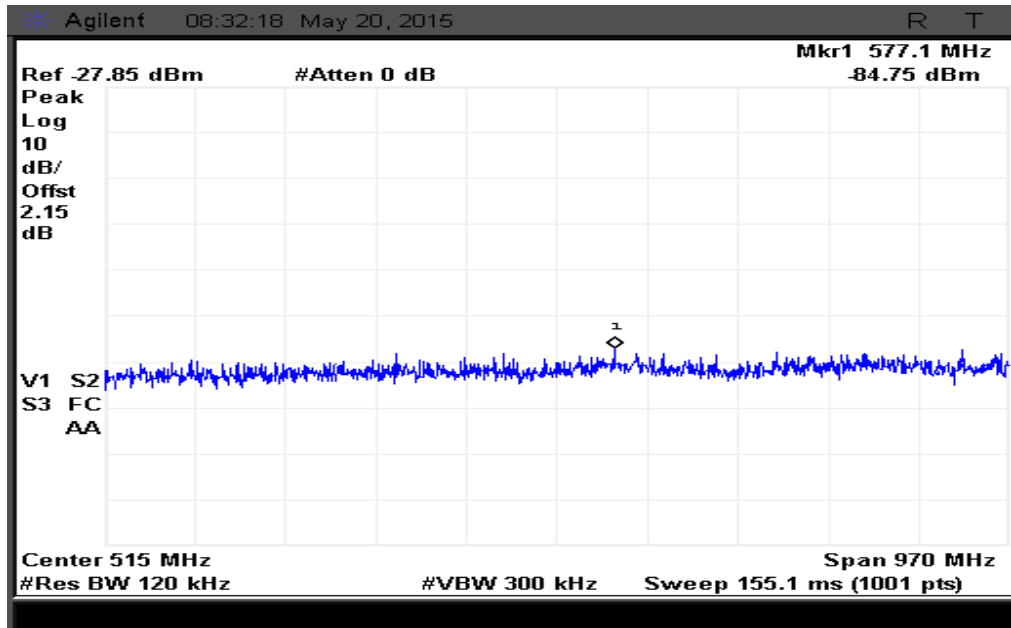


Figure 41: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

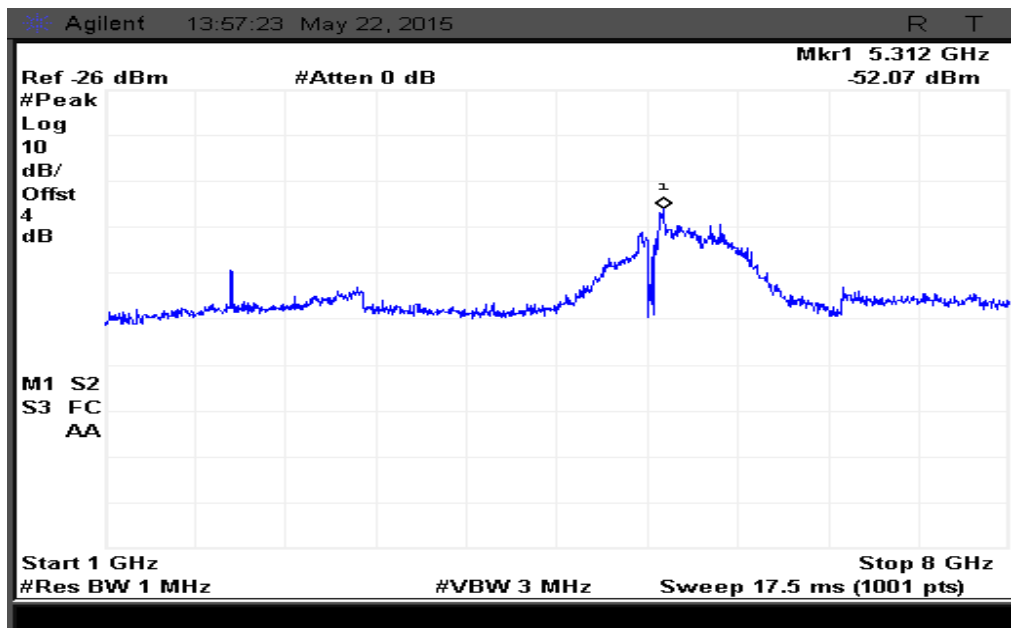


Figure 42: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

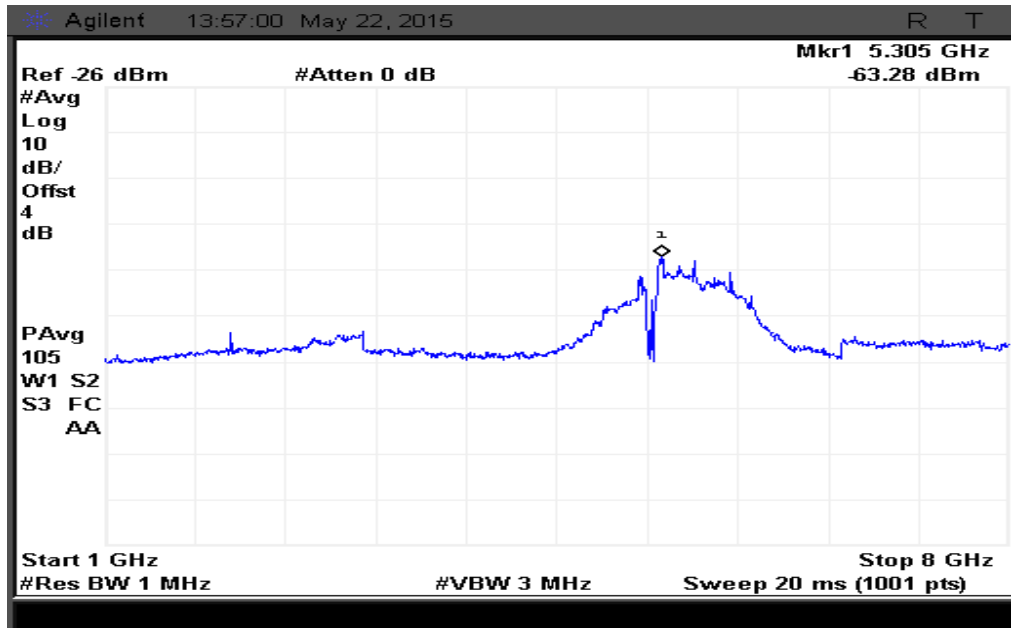


Figure 43: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

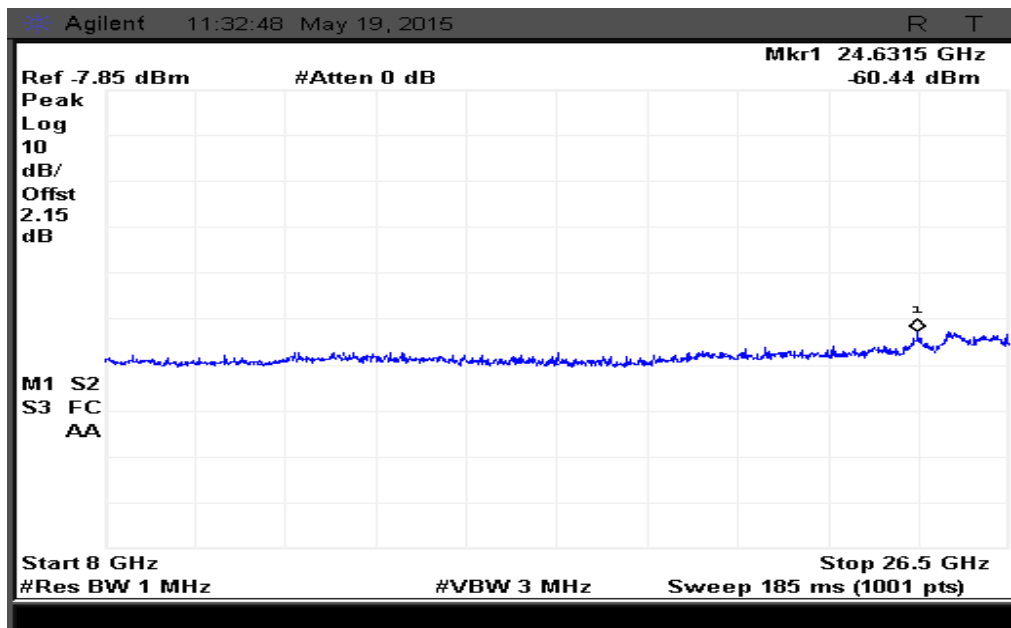


Figure 44: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

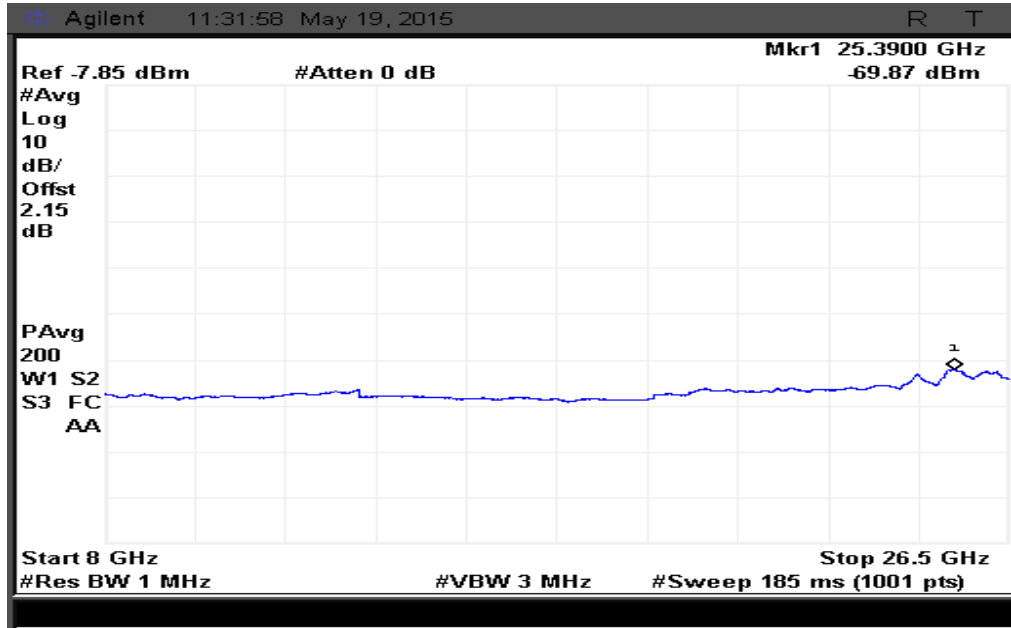


Figure 45: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

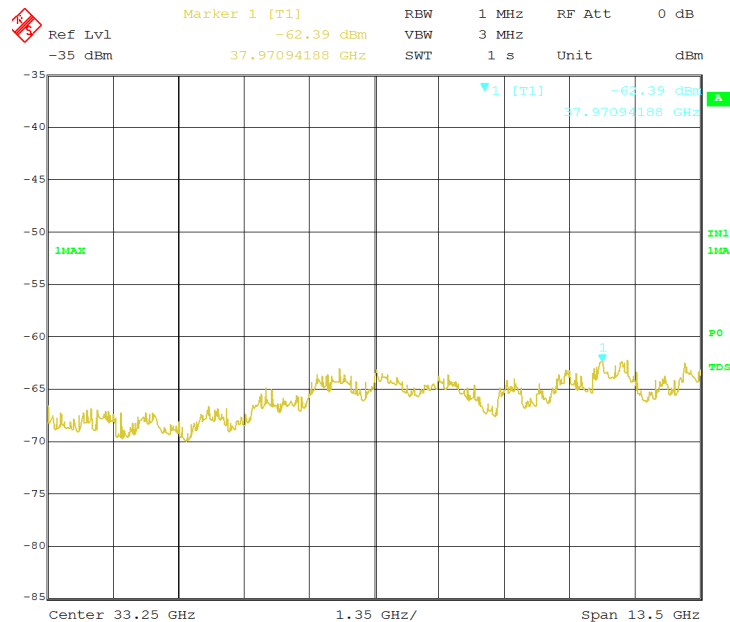


Figure 46: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

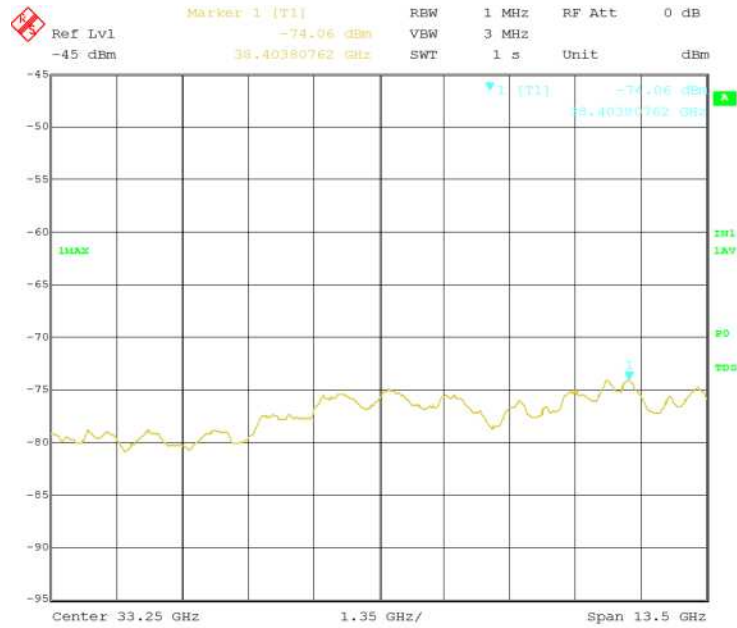


Figure 47: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

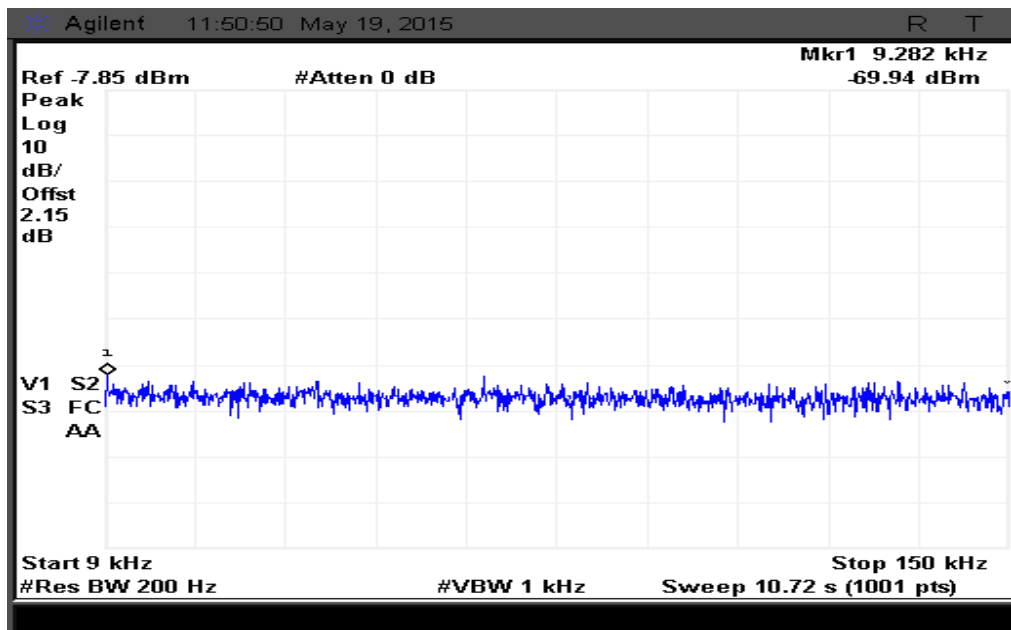


Figure 48: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

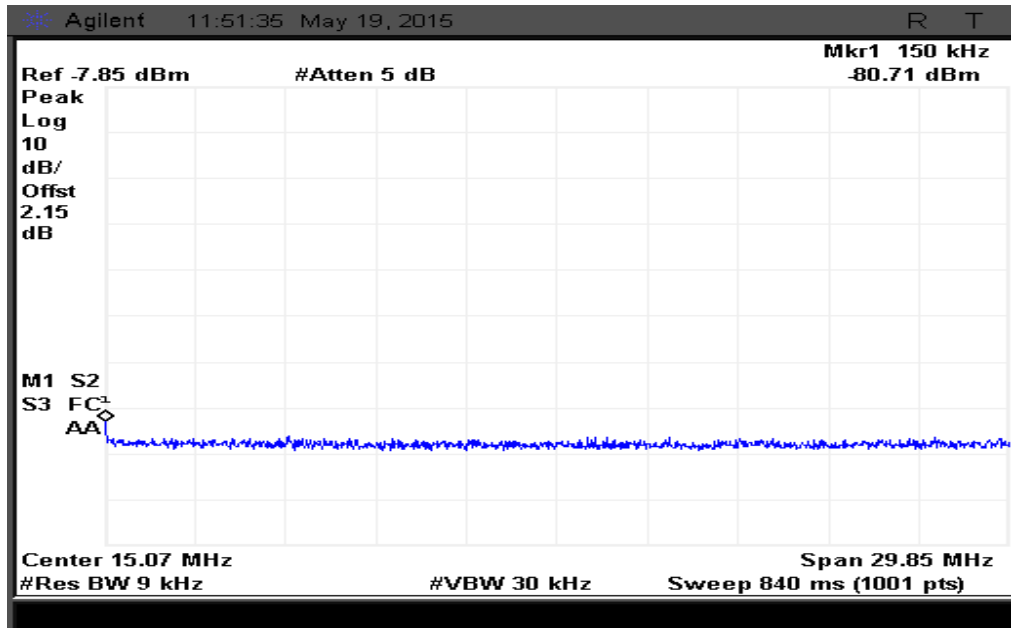


Figure 49: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

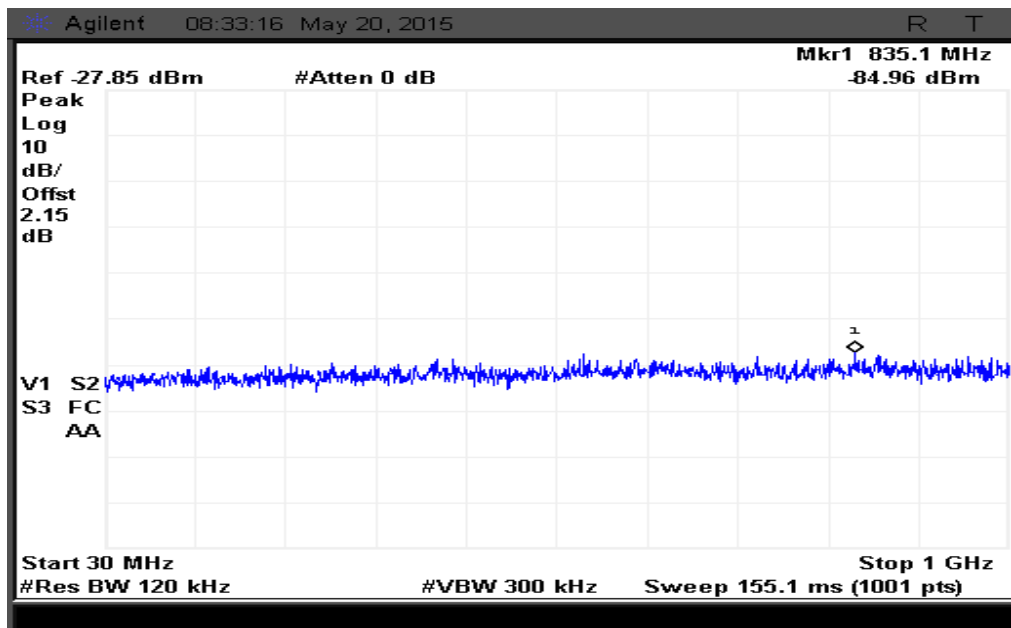


Figure 50: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

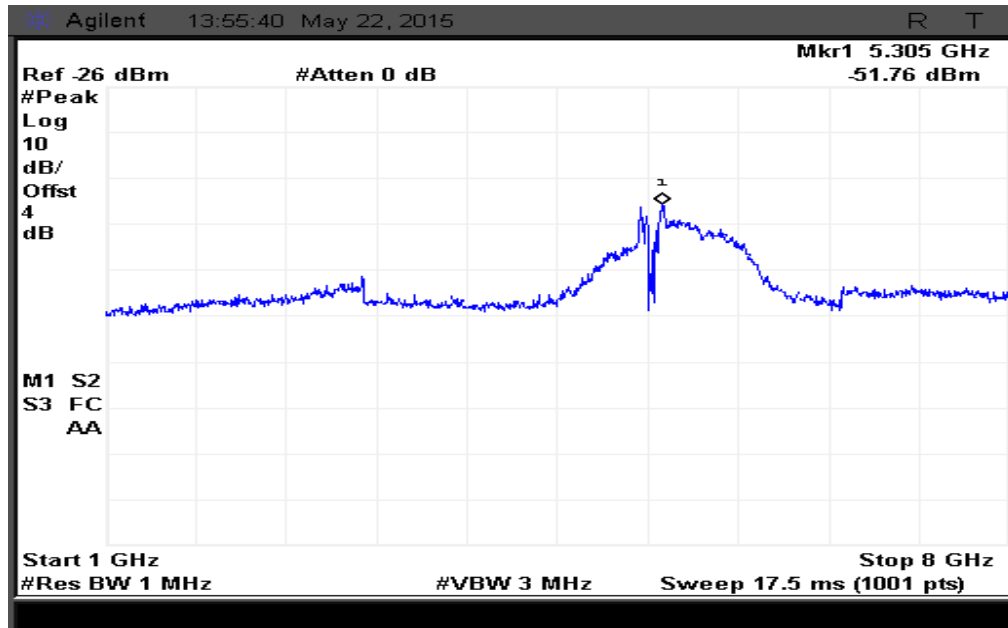


Figure 51: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

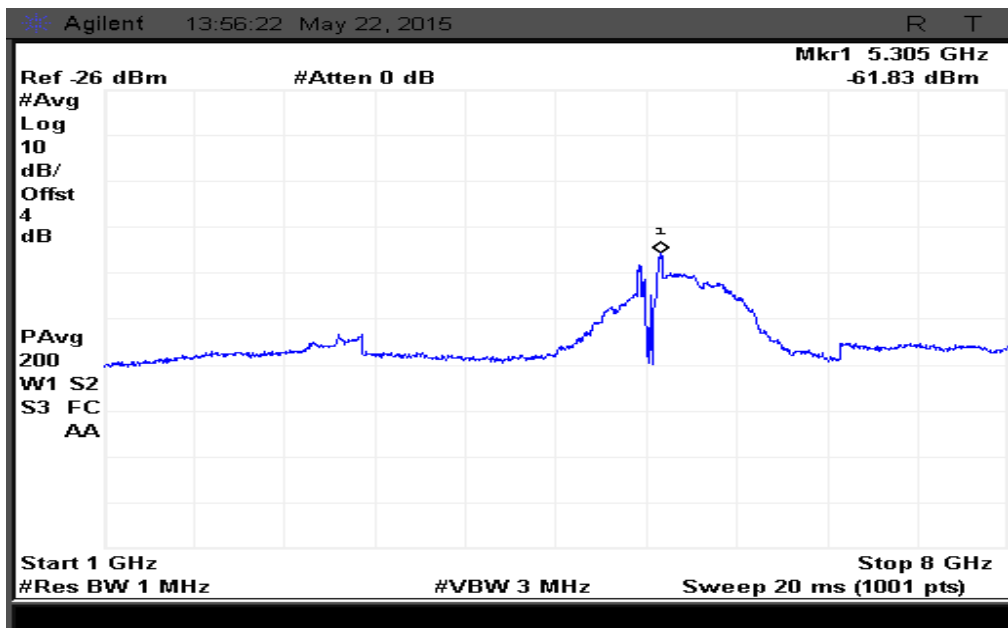


Figure 52: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

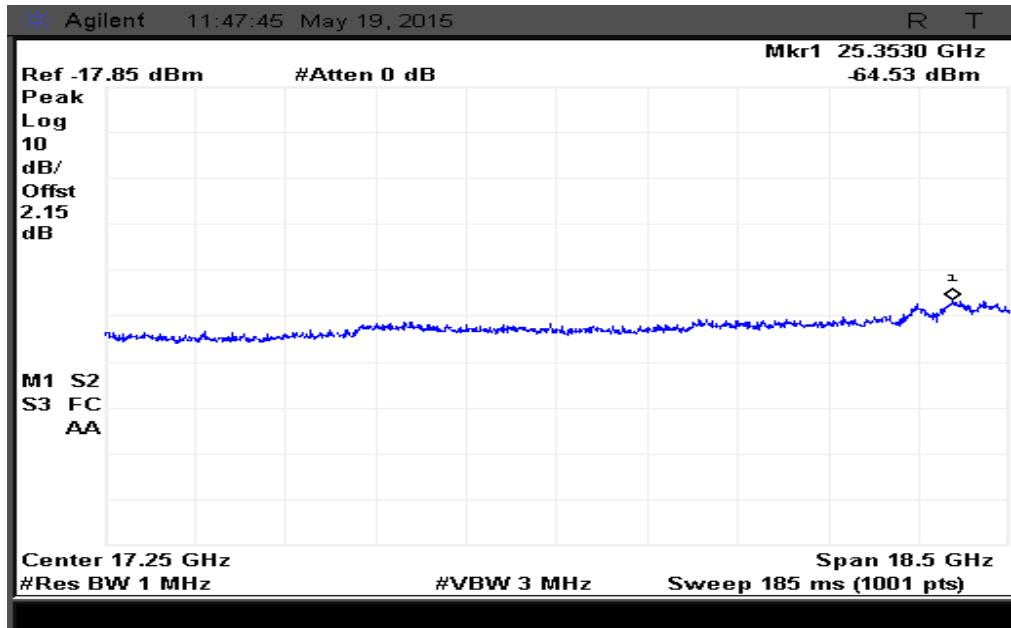


Figure 53: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

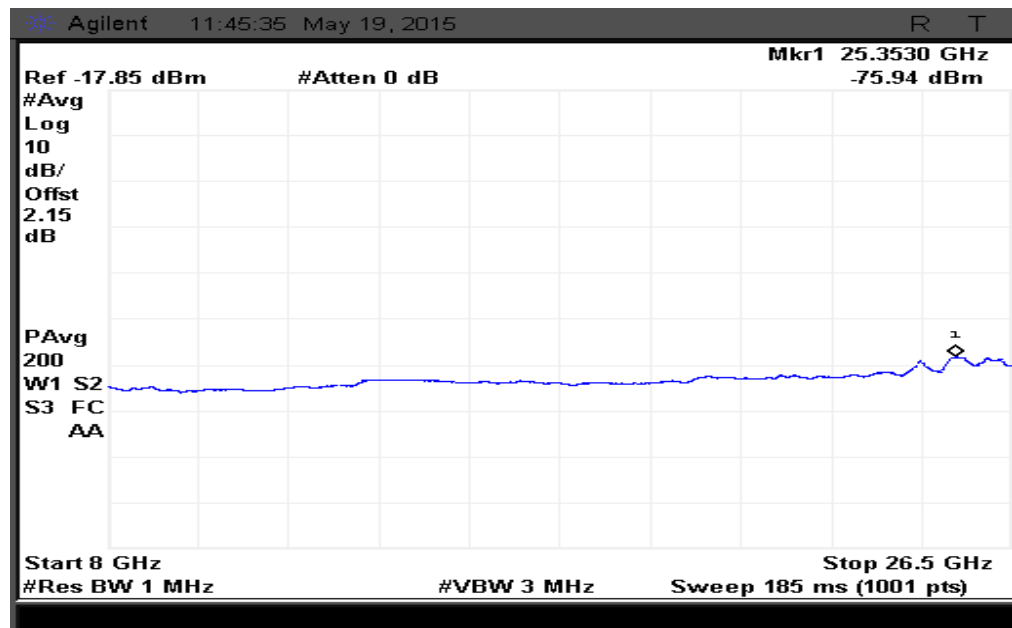


Figure 54: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

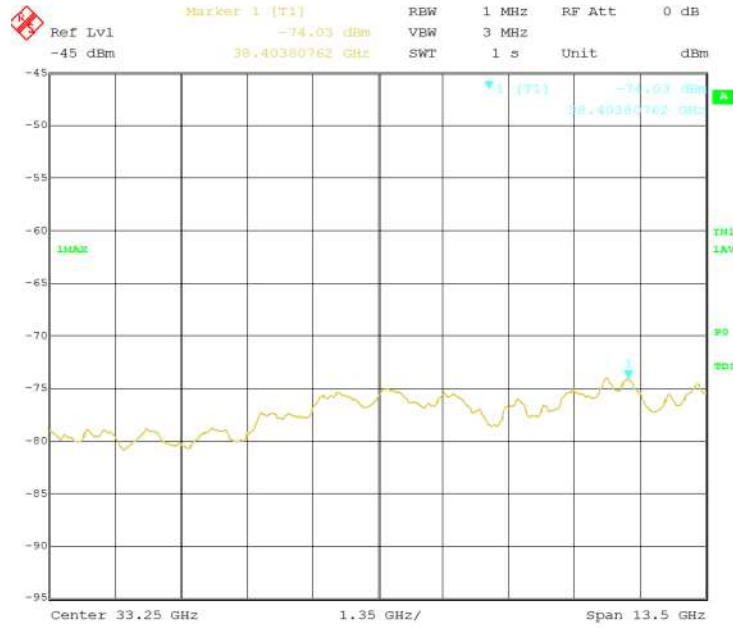


Figure 55: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

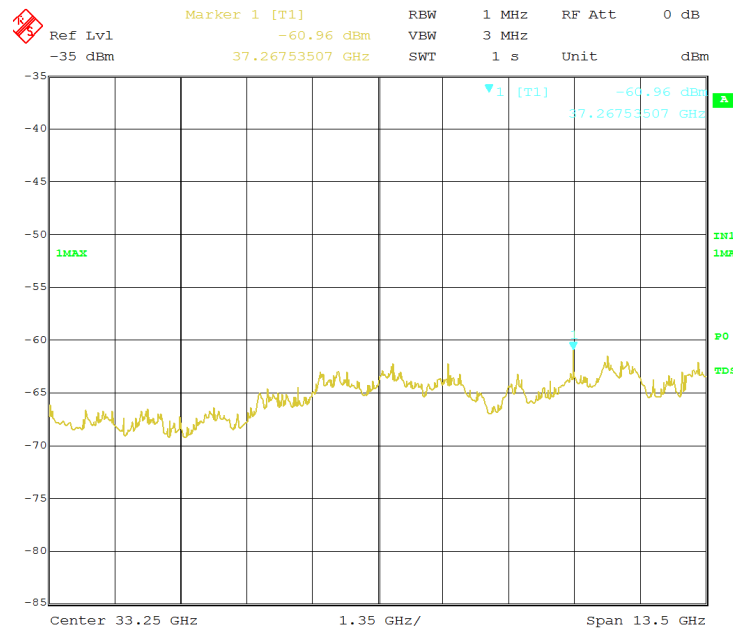


Figure 56: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.5.4 5MHz MODULATION BW - LOW CHANNEL_5155 MHz

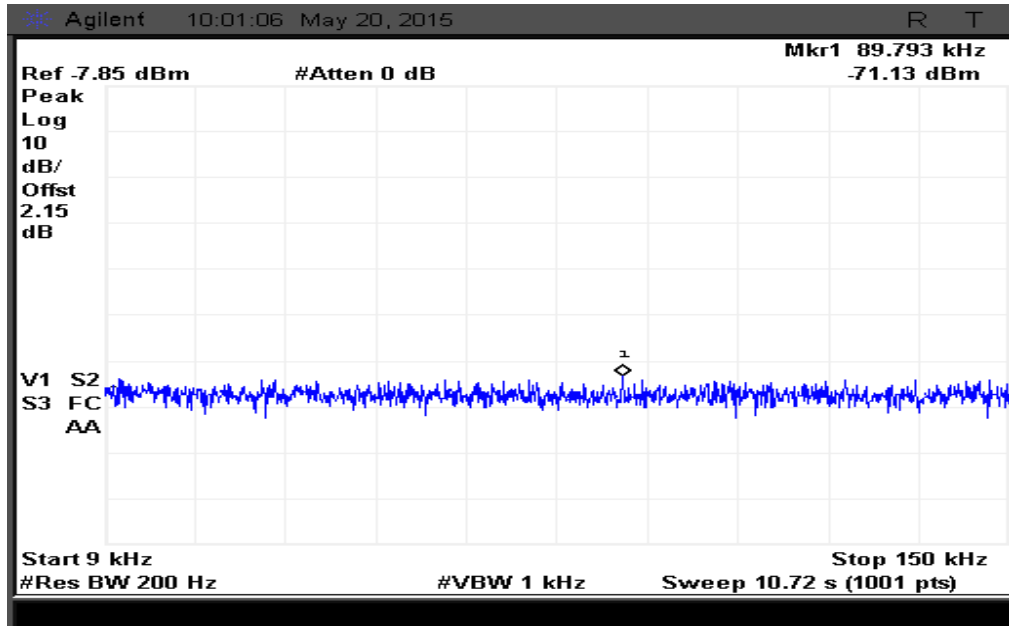


Figure 57: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

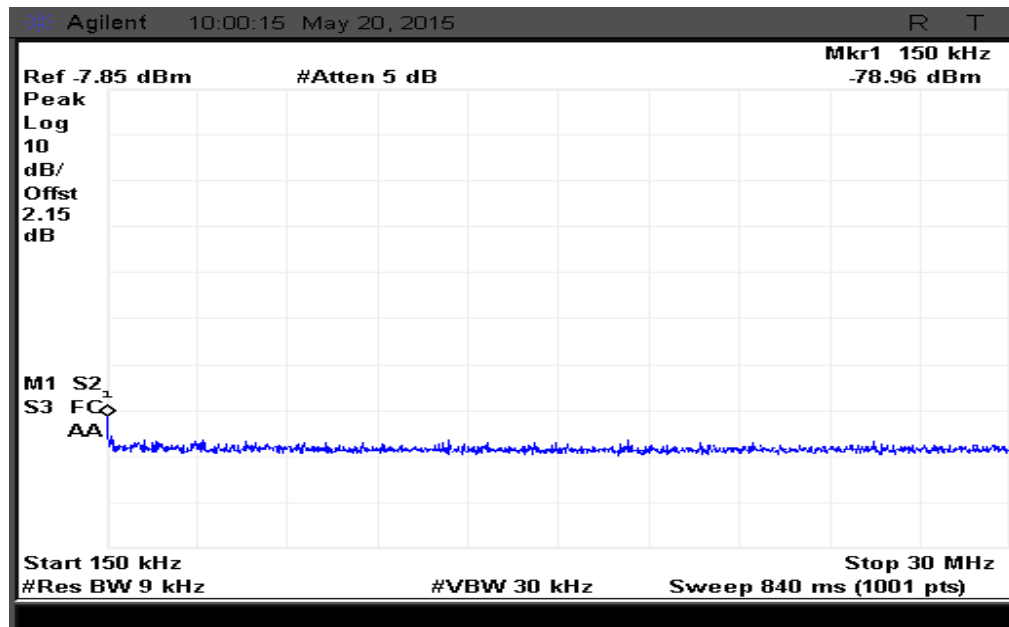


Figure 58: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

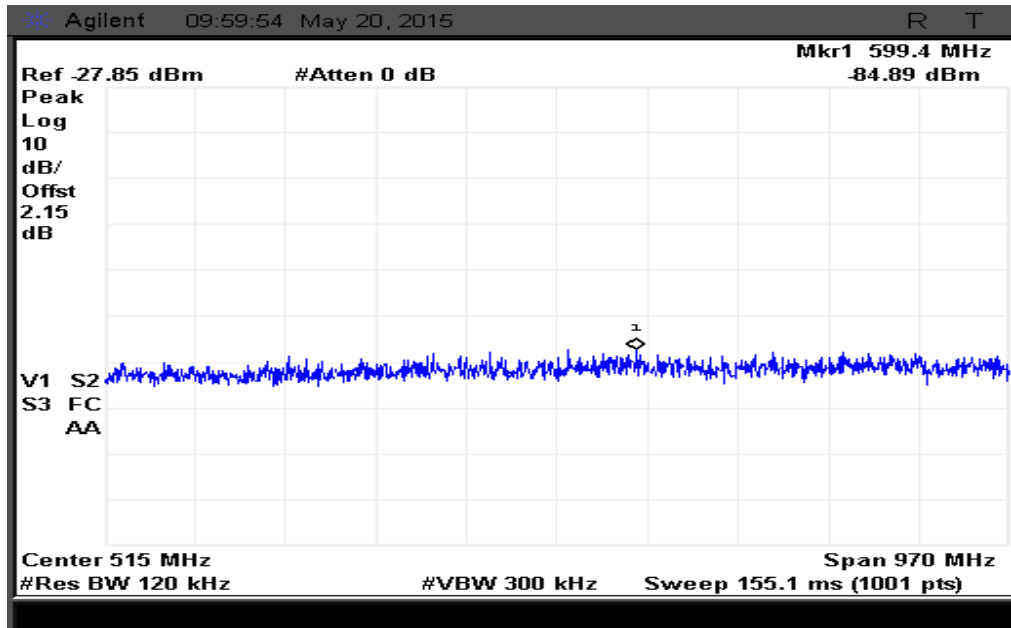


Figure 59: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

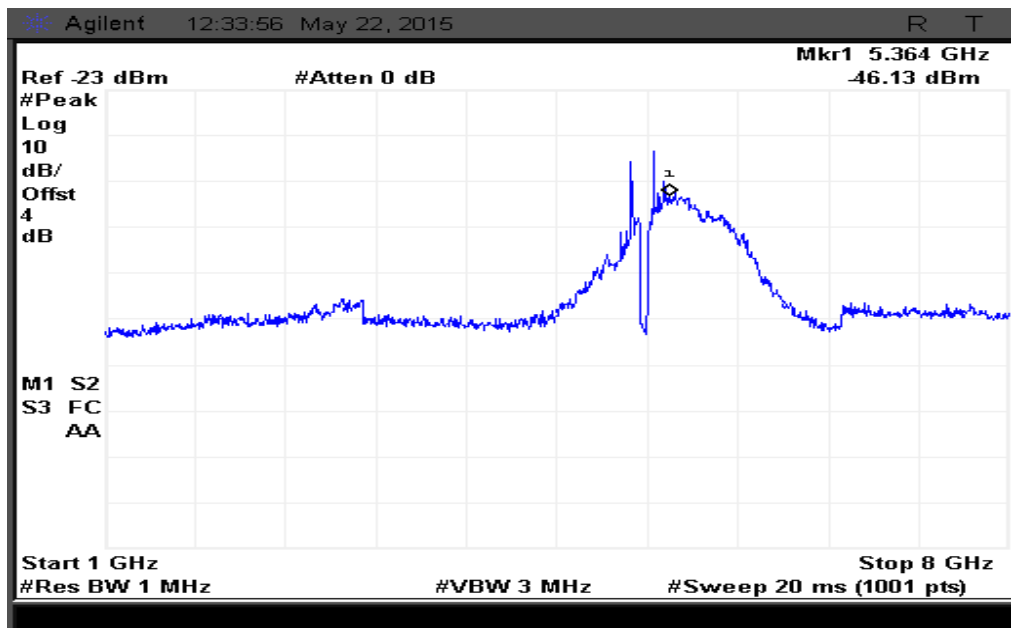


Figure 60: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

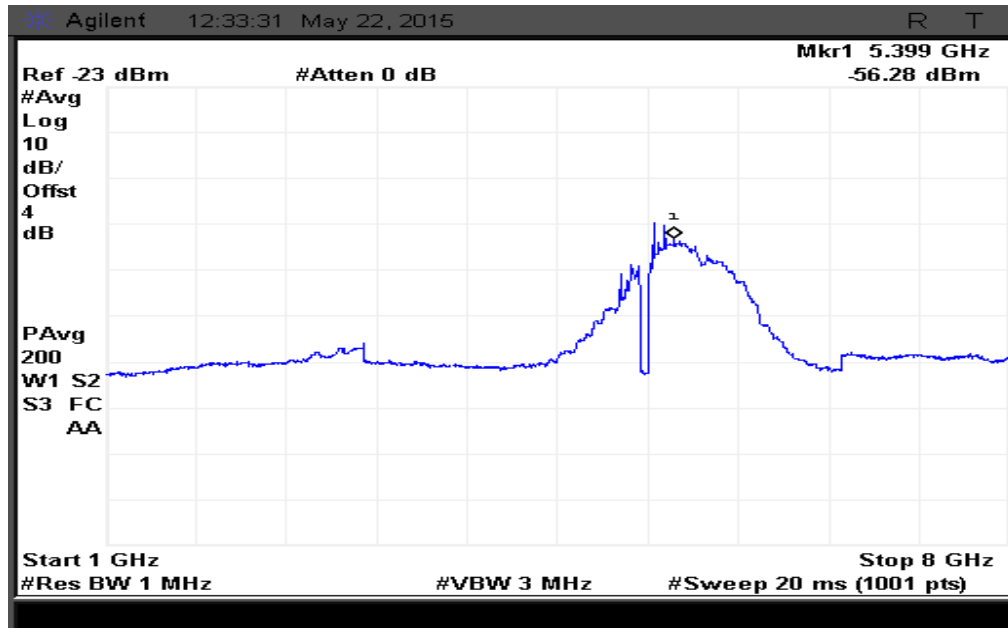


Figure 61: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

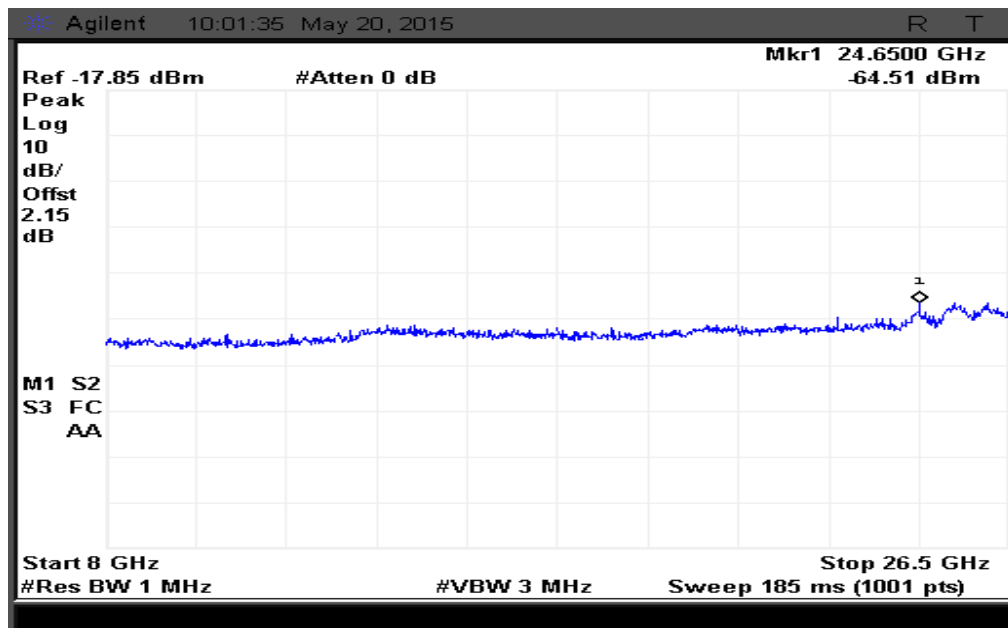


Figure 62: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

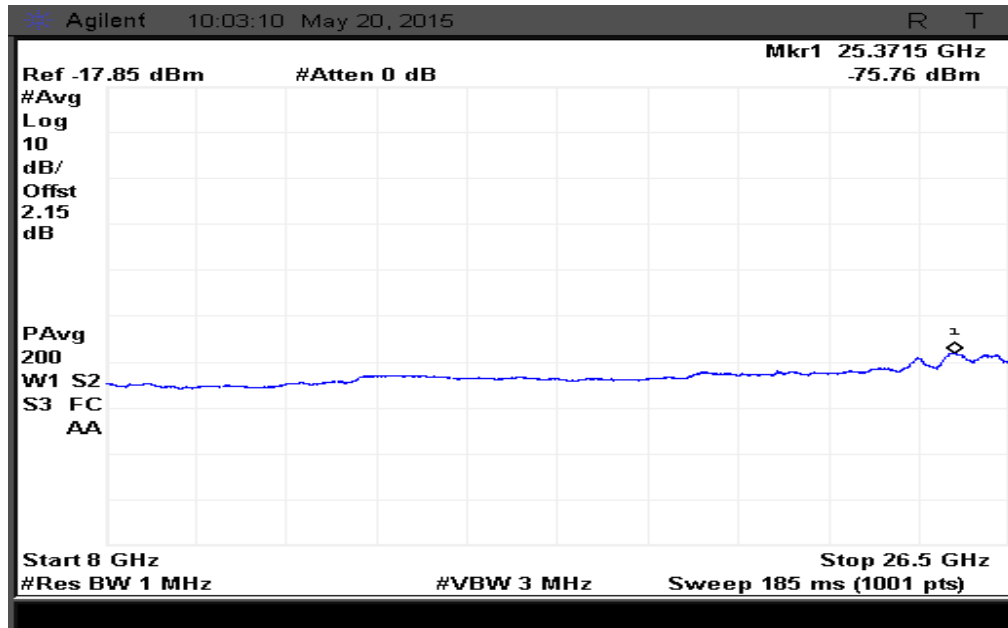


Figure 63: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

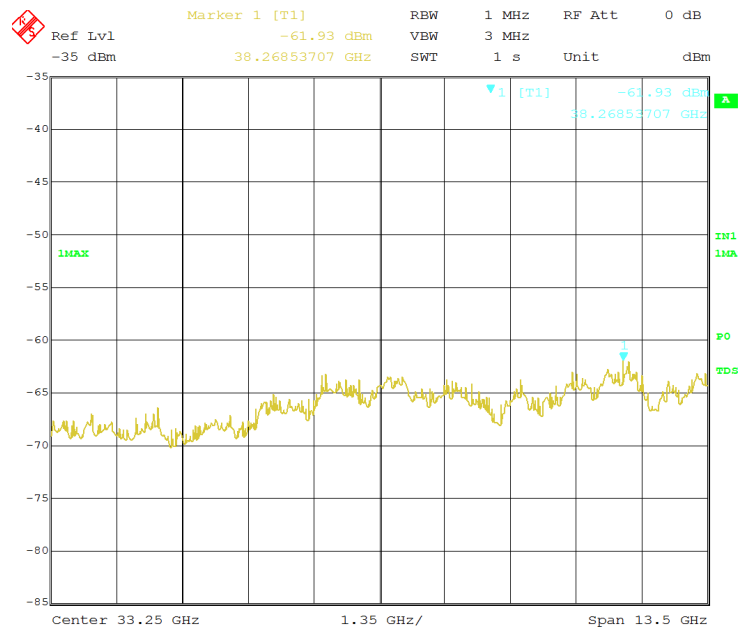


Figure 64: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

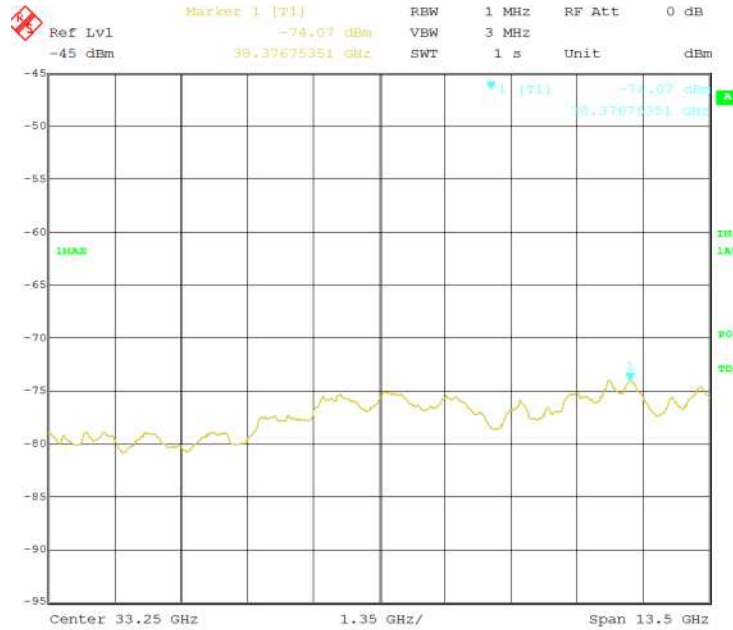


Figure 65: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

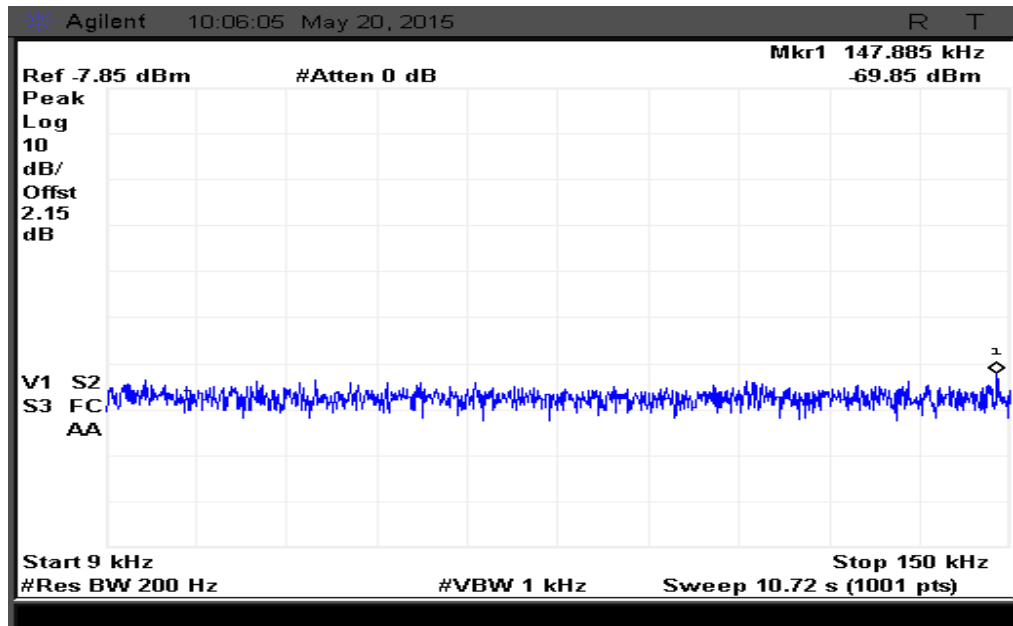


Figure 66: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

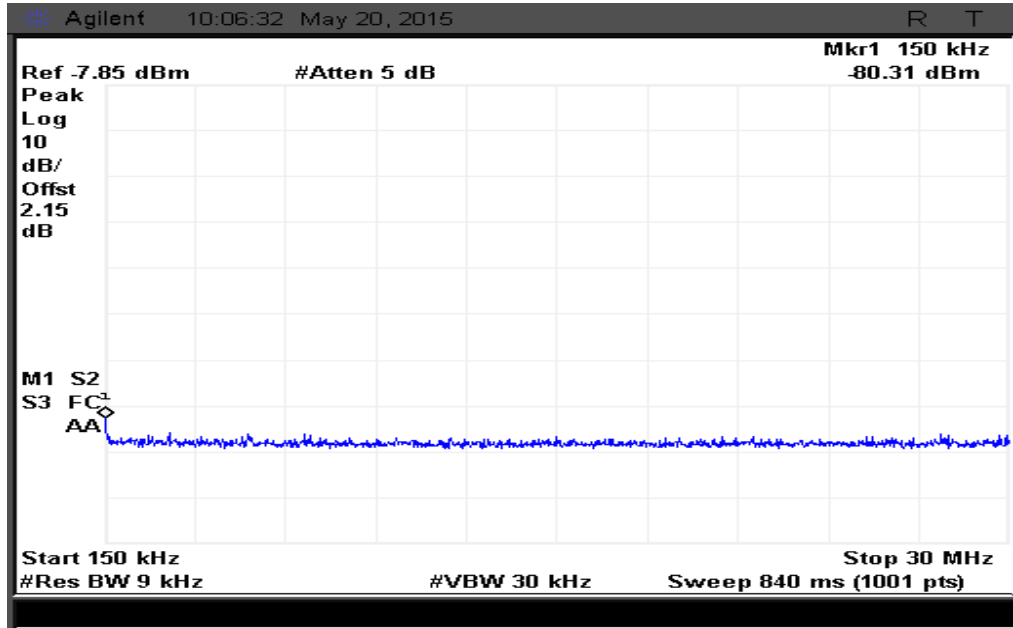


Figure 67: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

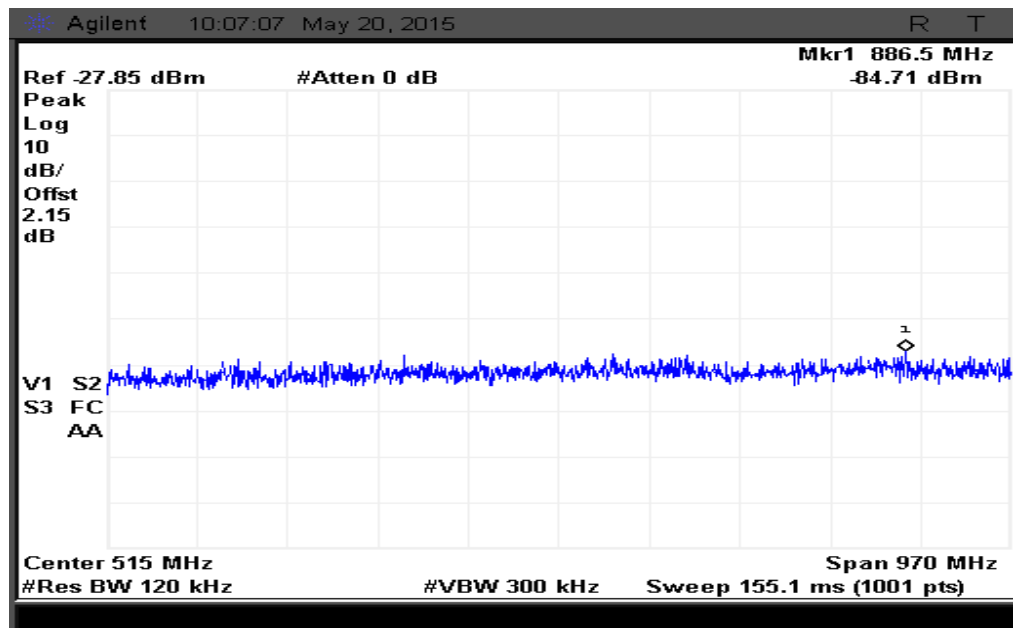


Figure 68: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

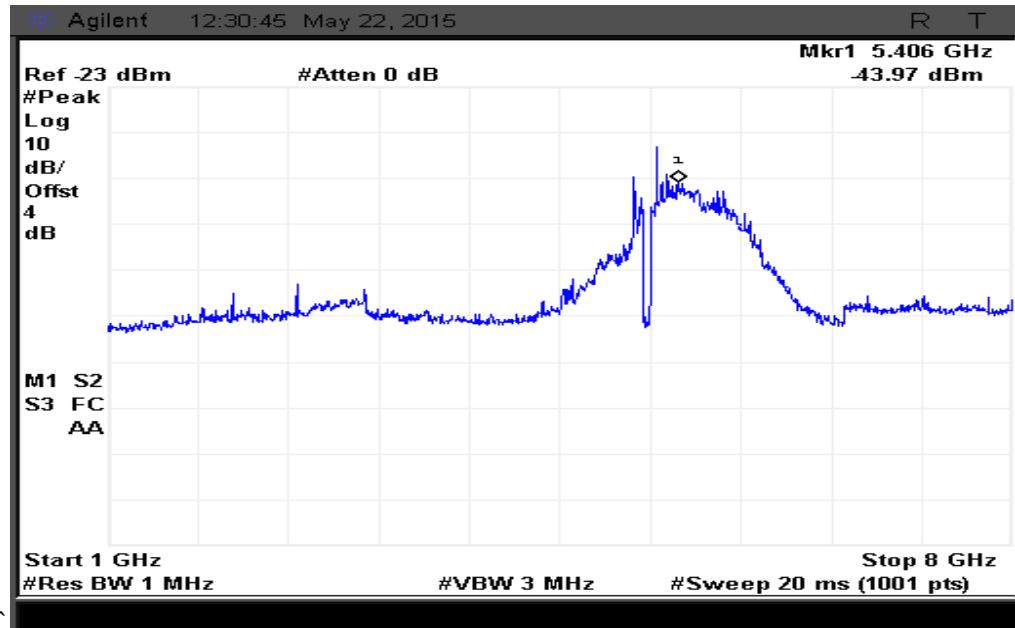


Figure 69: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

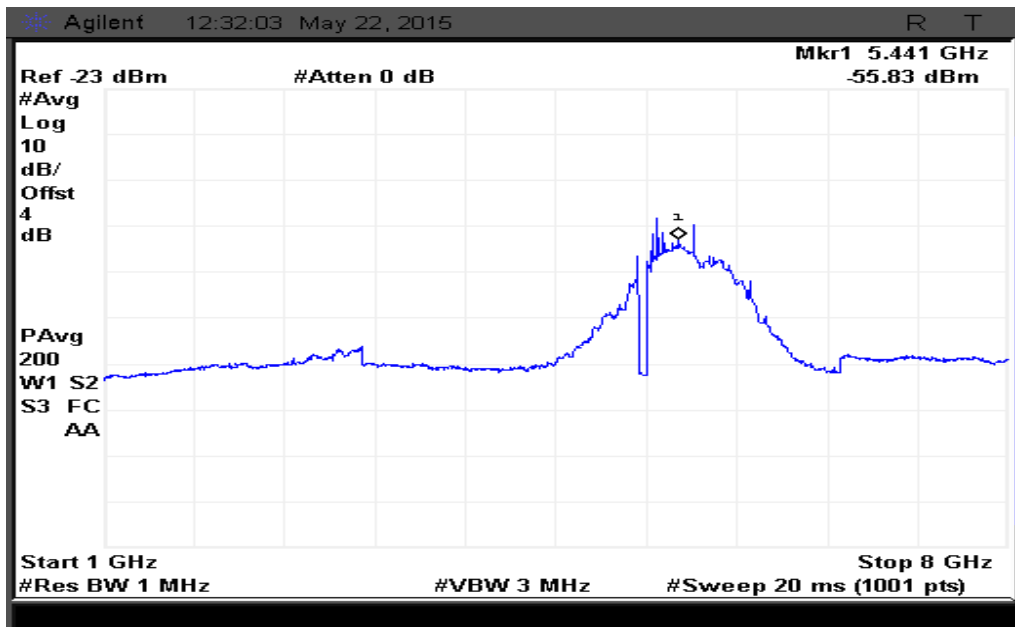


Figure 70: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

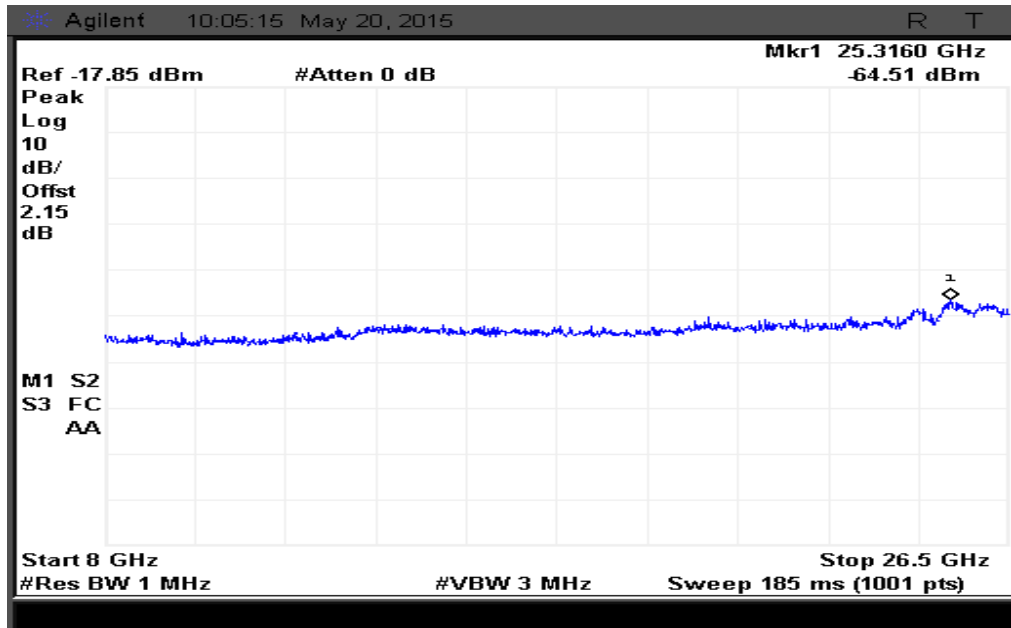


Figure 71: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

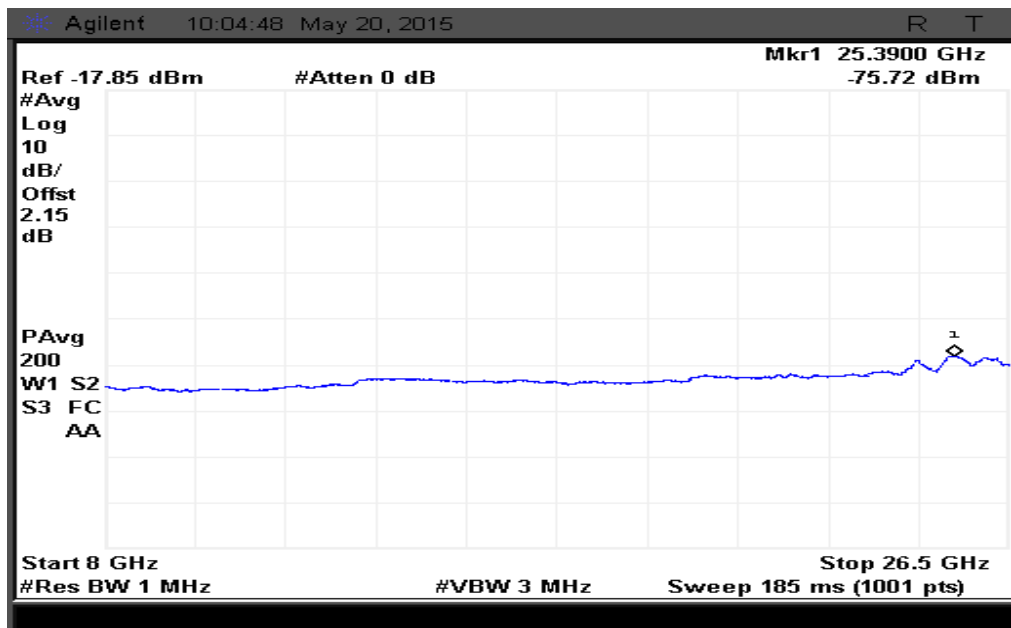


Figure 72: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

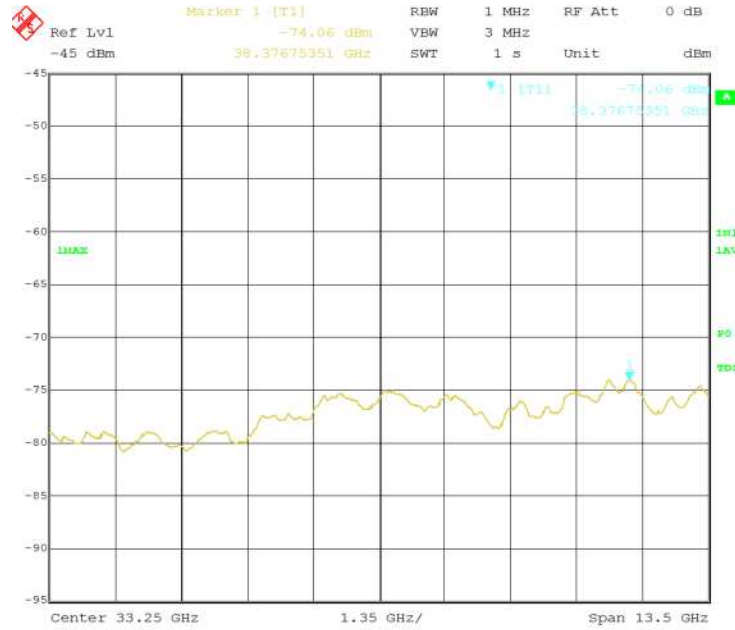


Figure 73: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

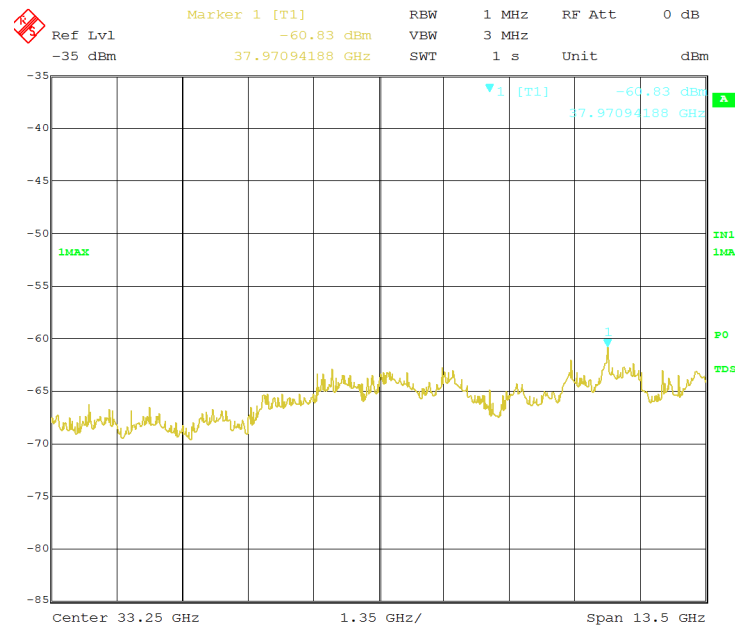


Figure 74: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.5.5 5MHz MODULATION BW - MID CHANNEL_5200 MHz

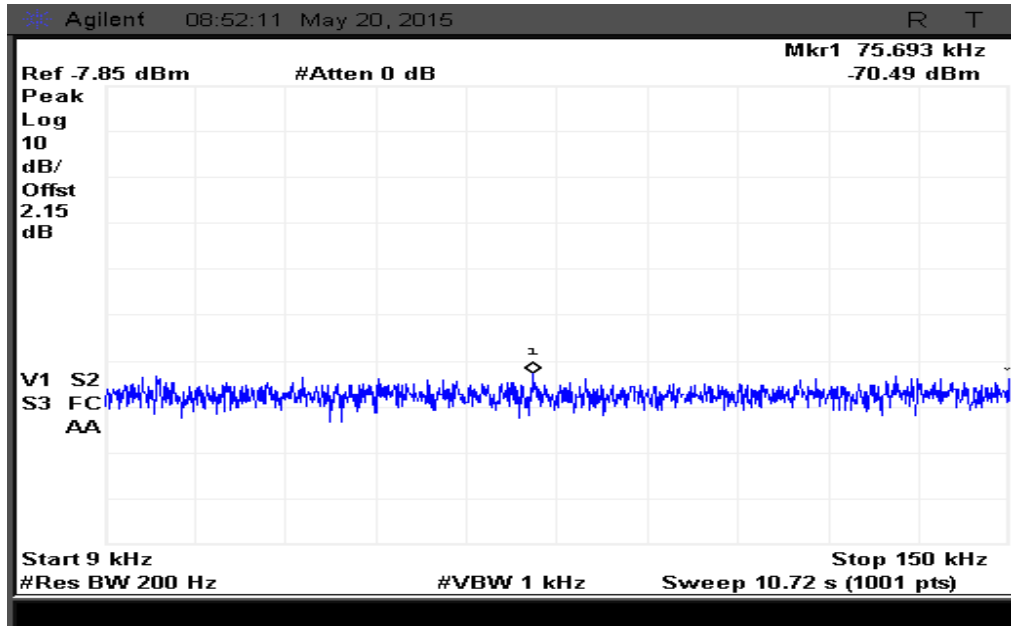


Figure 75: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

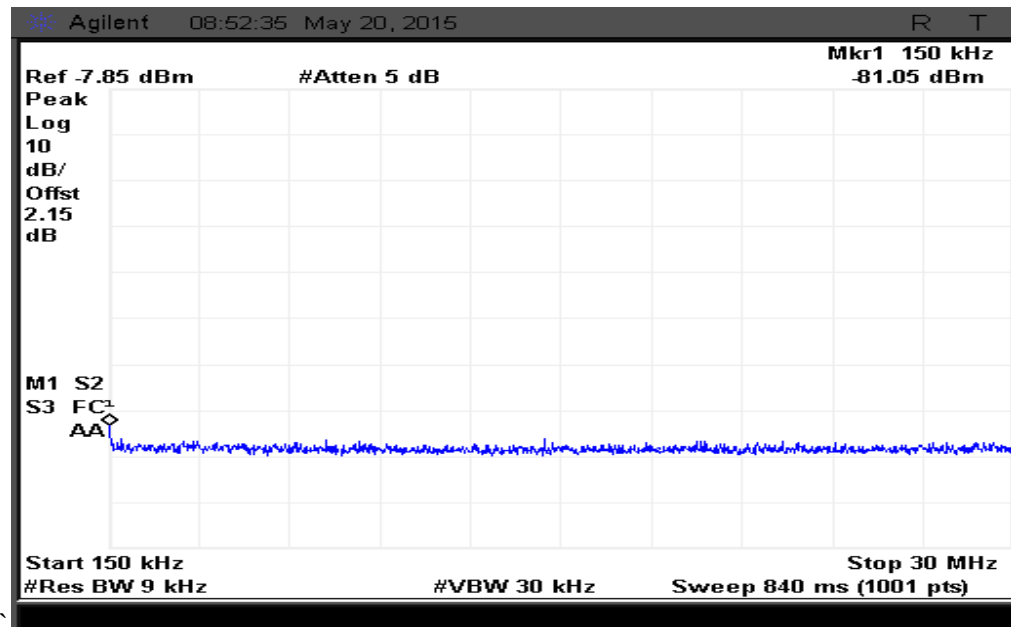


Figure 76: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

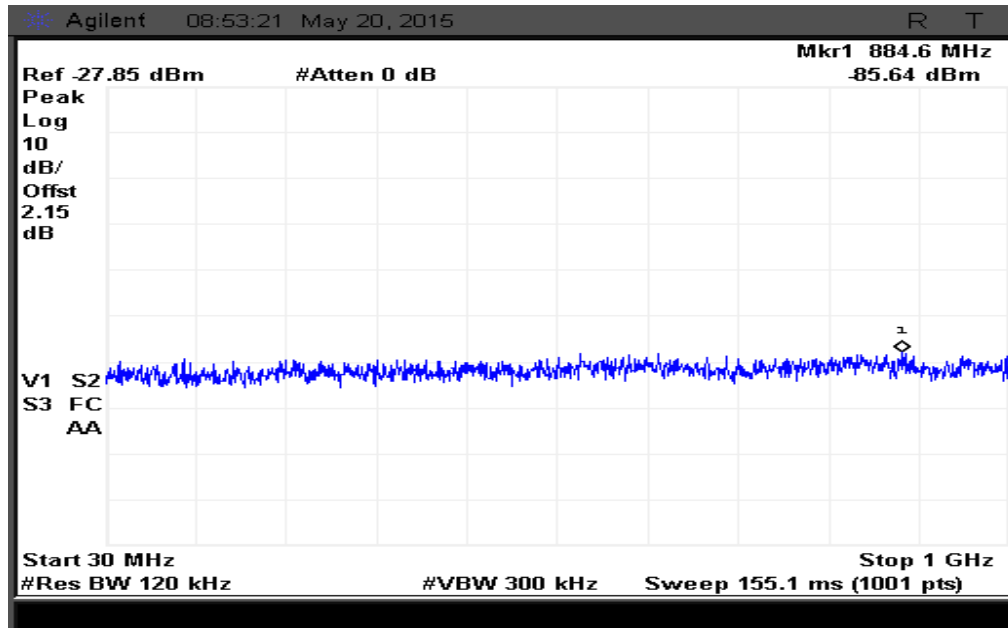


Figure 77: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

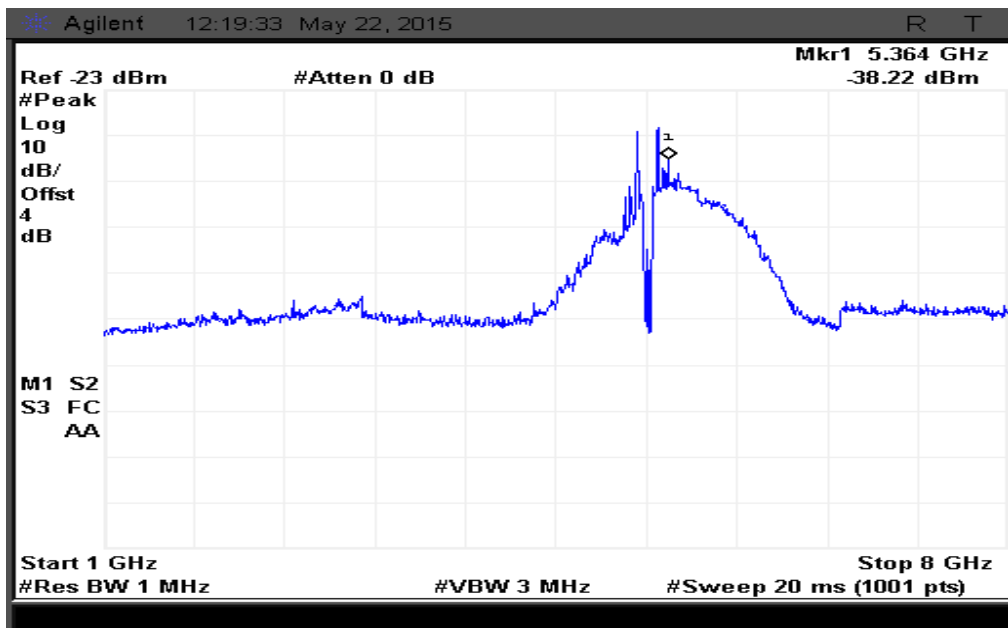


Figure 78: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

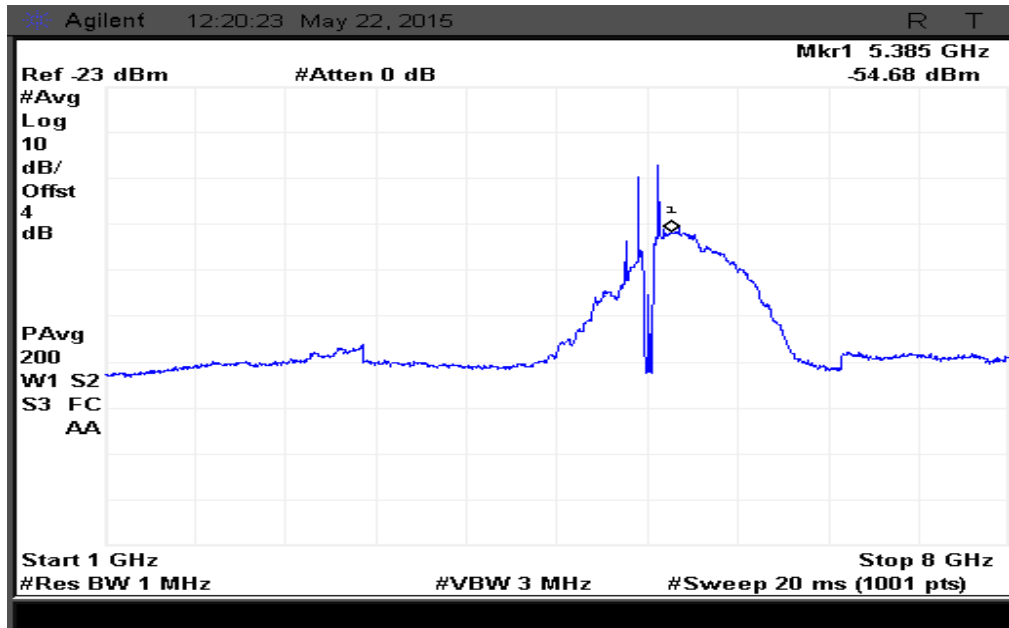


Figure 79: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

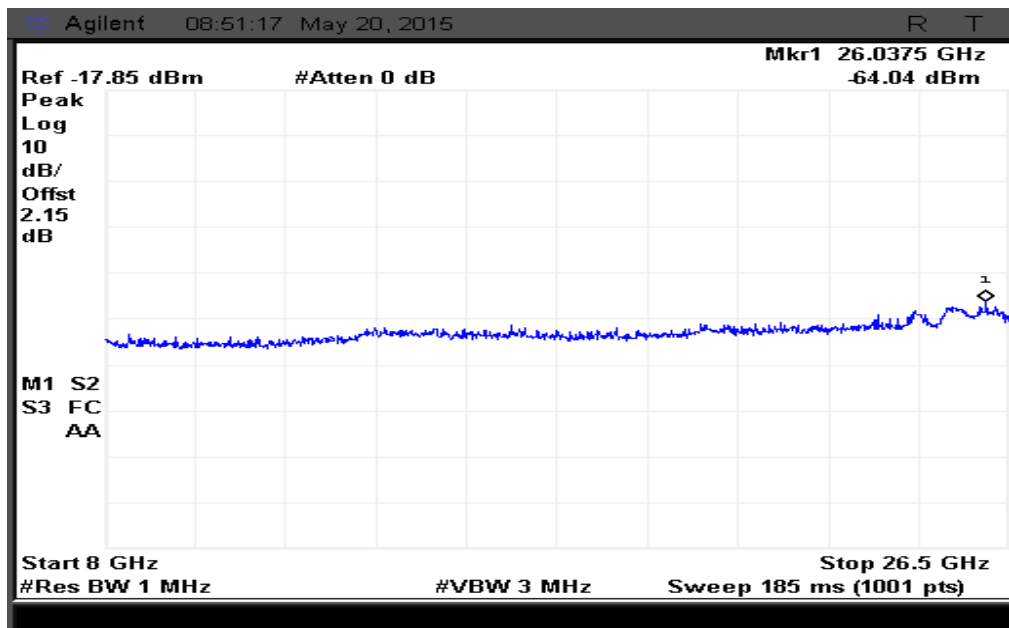


Figure 80: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

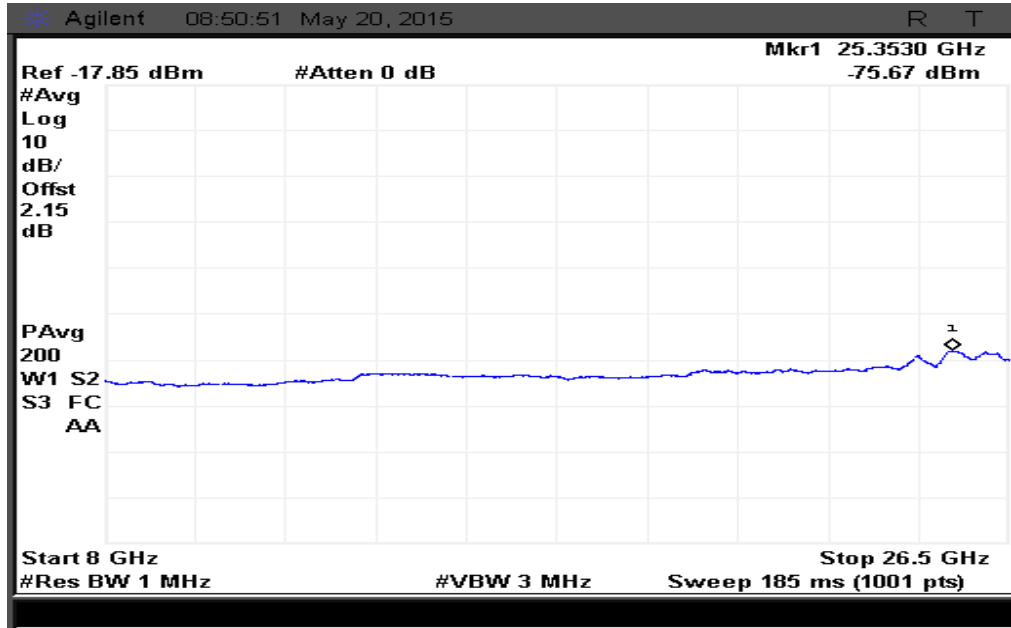


Figure 81: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

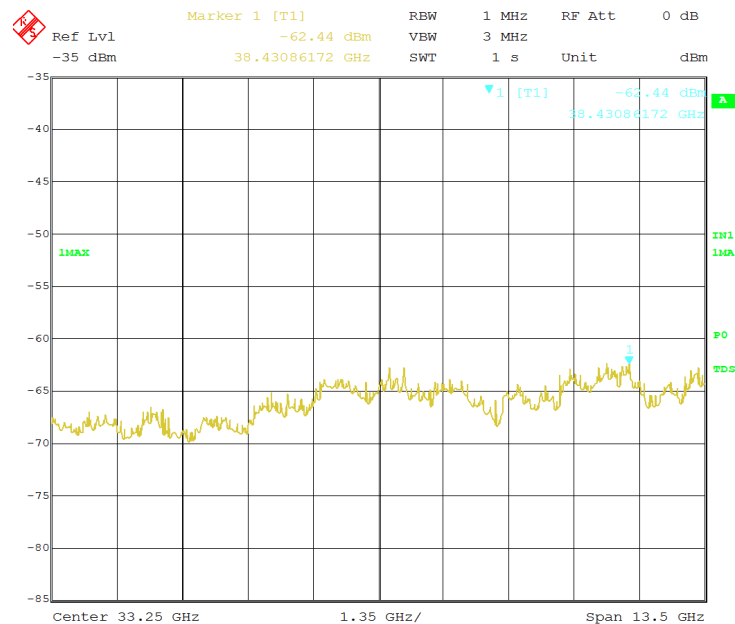


Figure 82: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

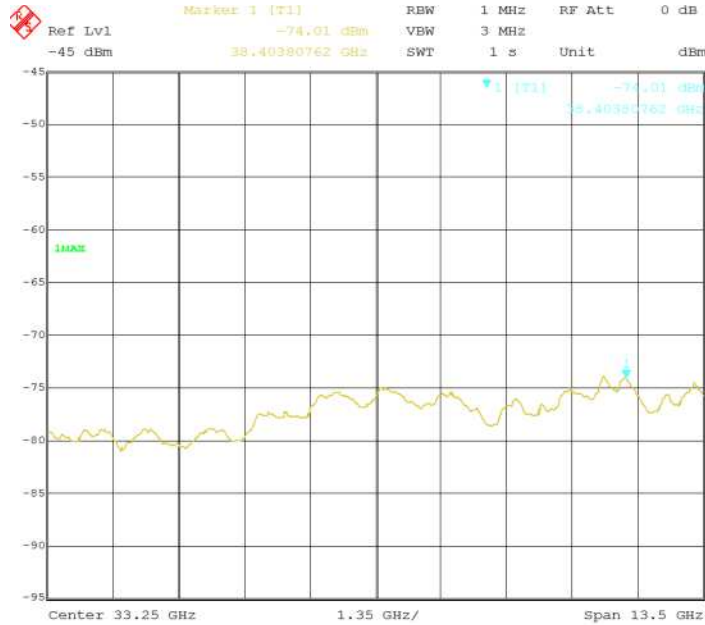


Figure 83: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

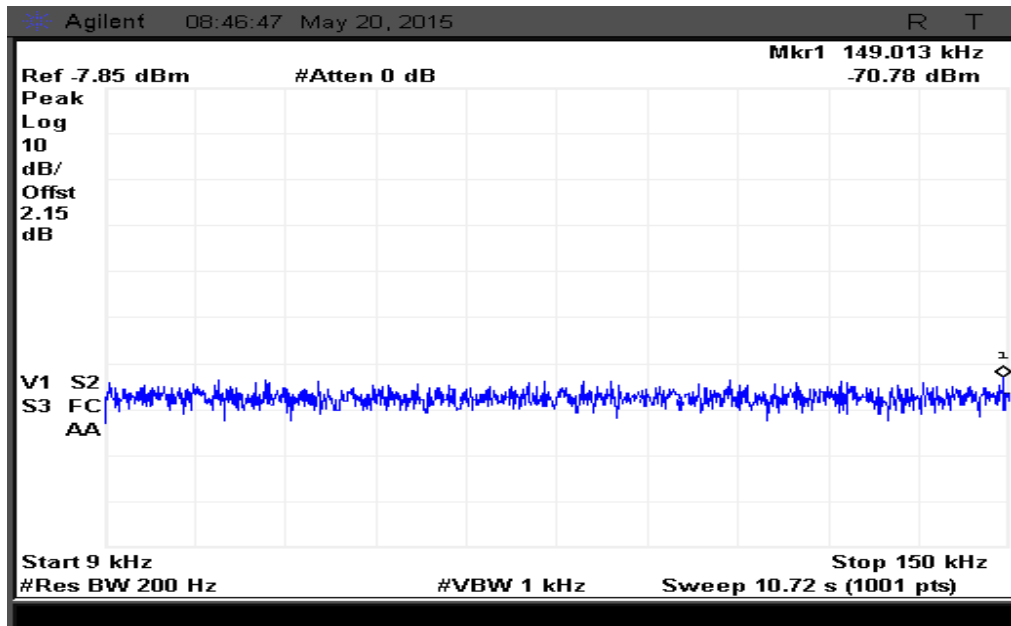


Figure 84: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

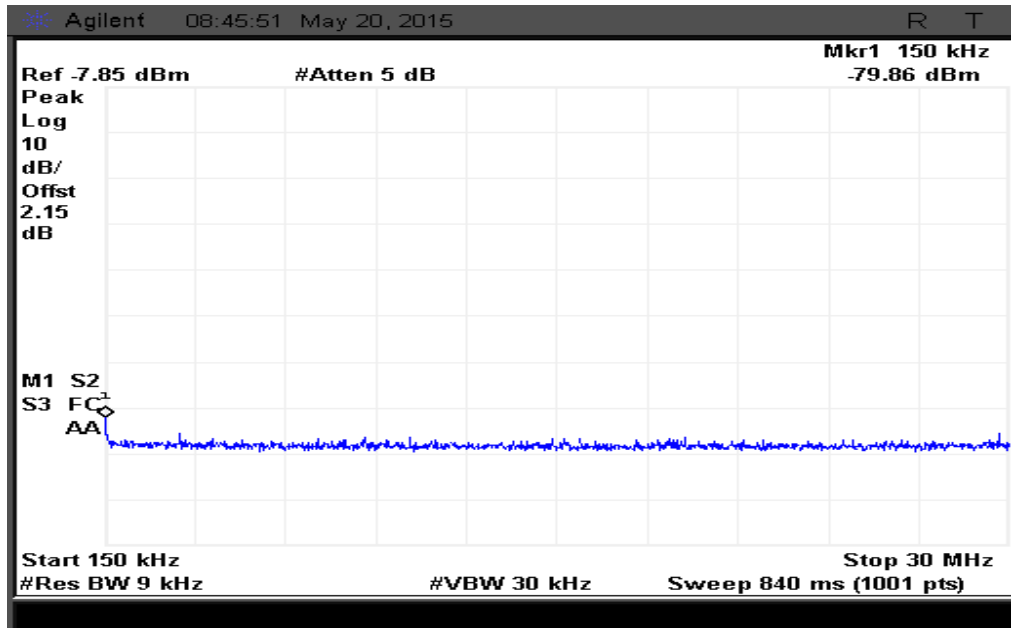


Figure 85: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

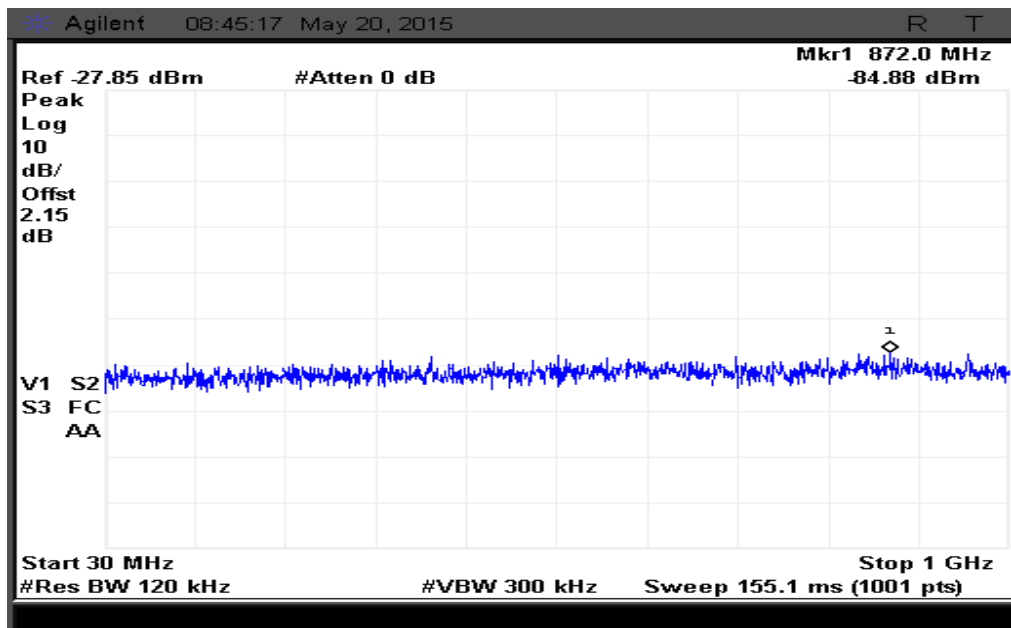


Figure 86: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

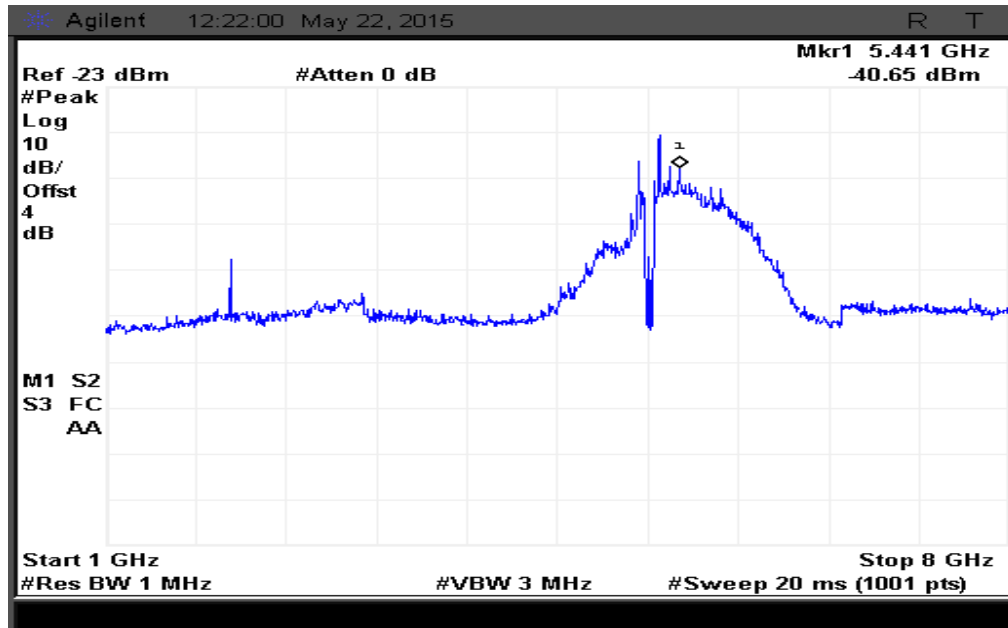


Figure 87: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

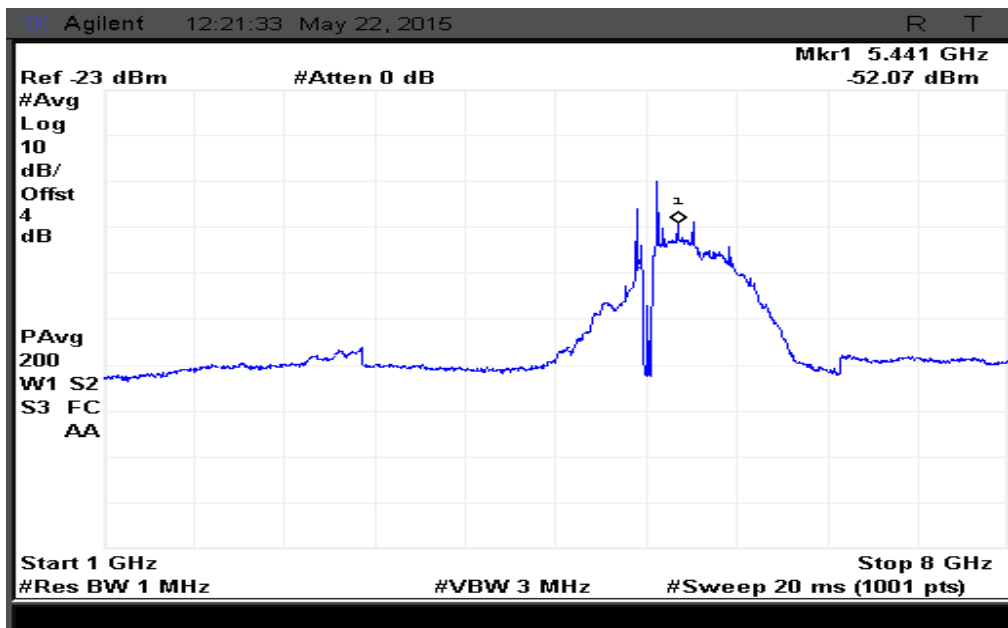


Figure 88: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

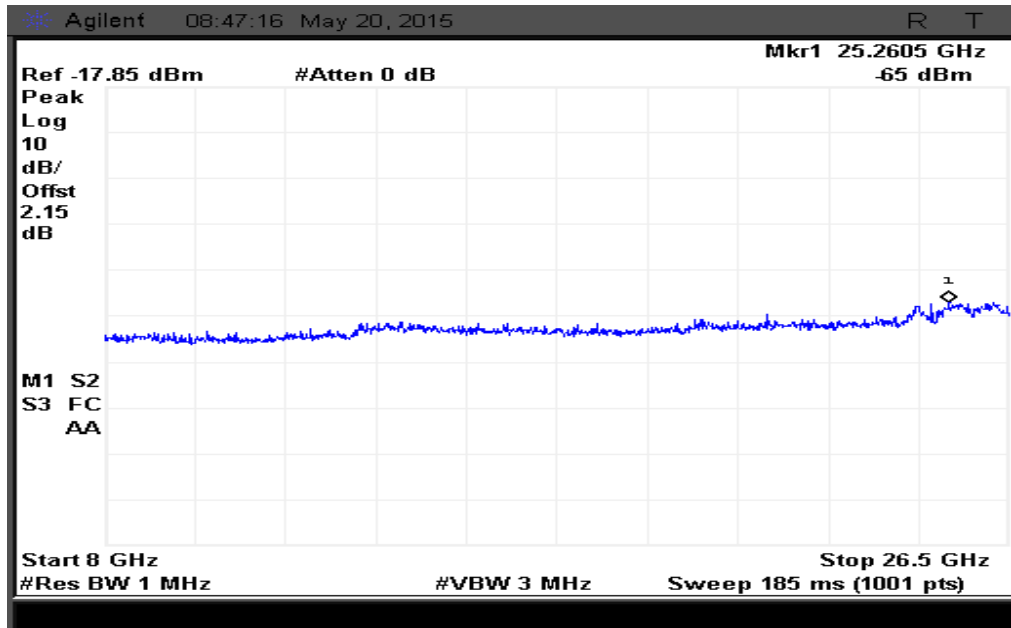


Figure 89: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

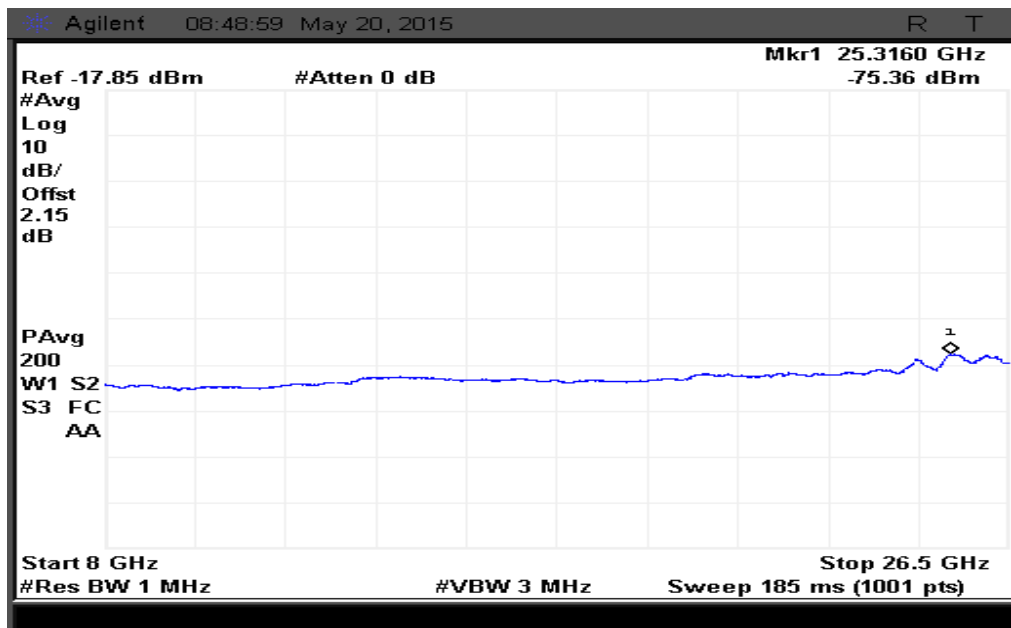


Figure 90: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

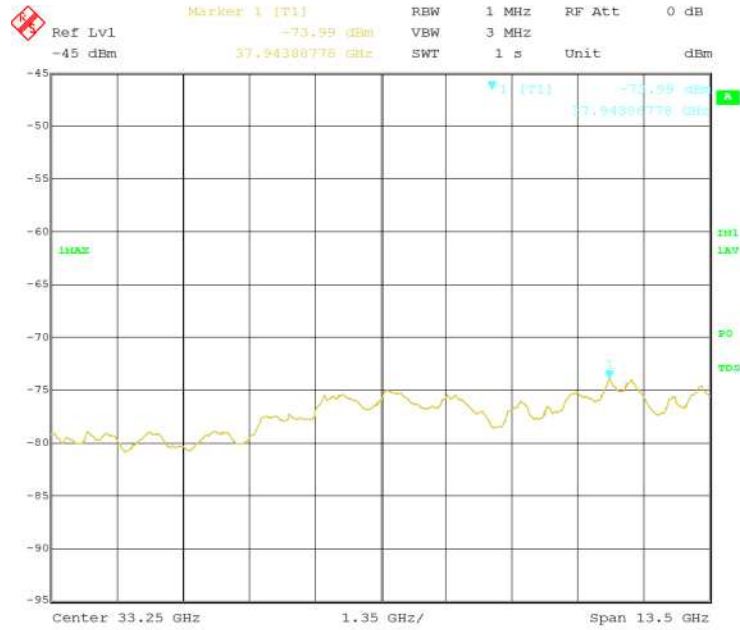


Figure 91: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

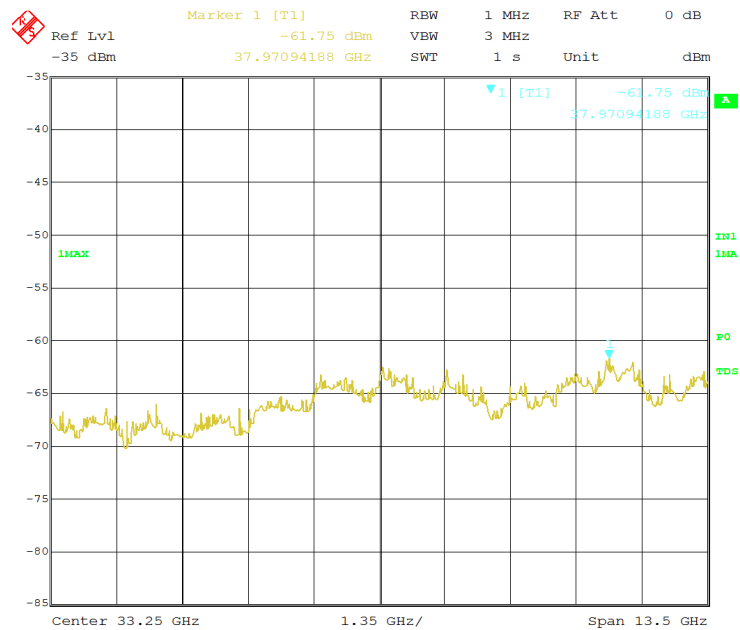


Figure 92: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.5.6 5MHz MODULATION BW - HIGH CHANNEL_5245 MHz

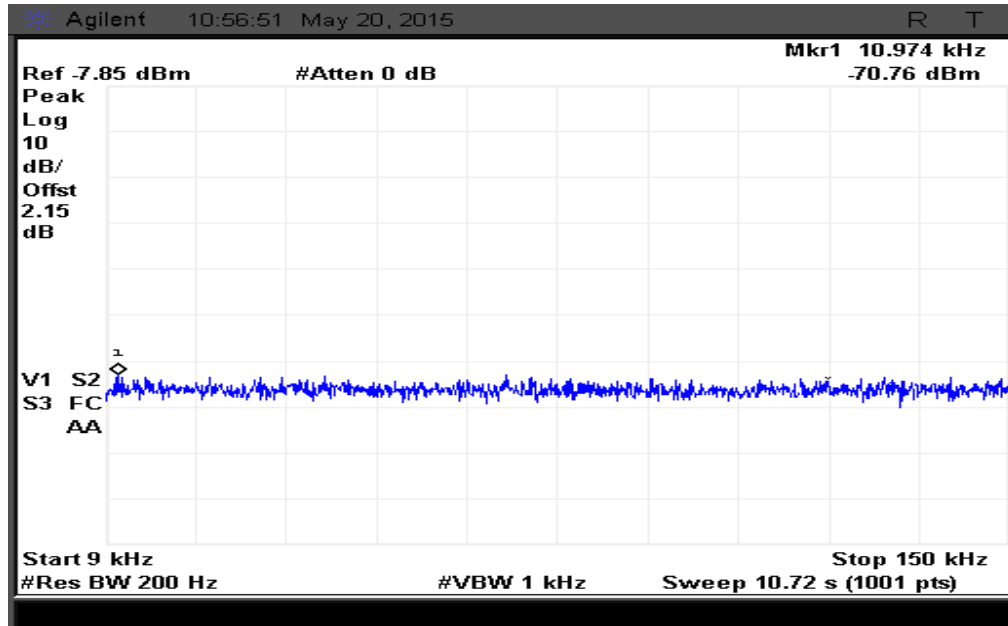


Figure 93: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

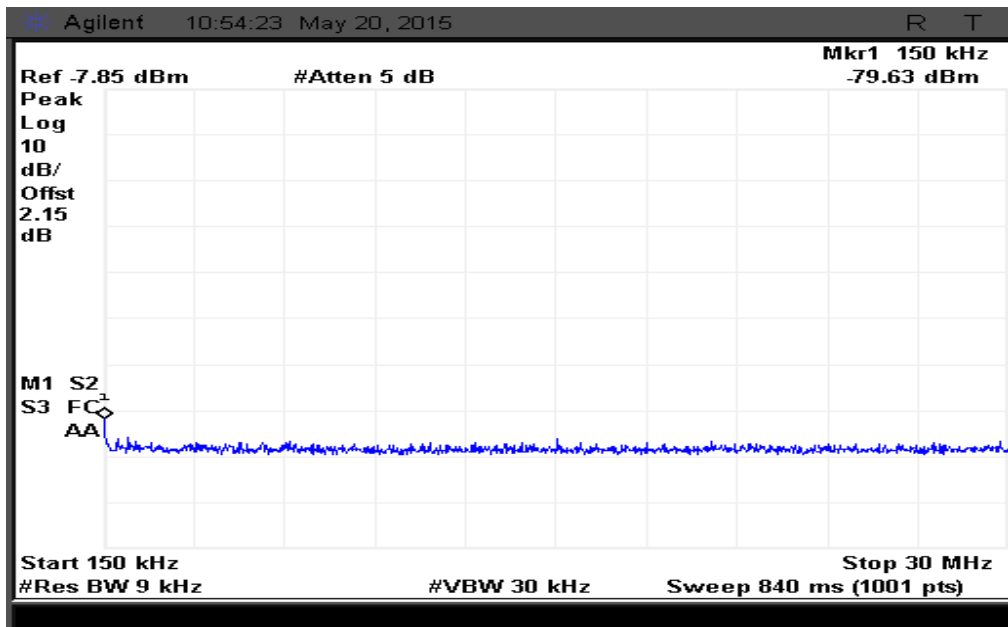


Figure 94: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

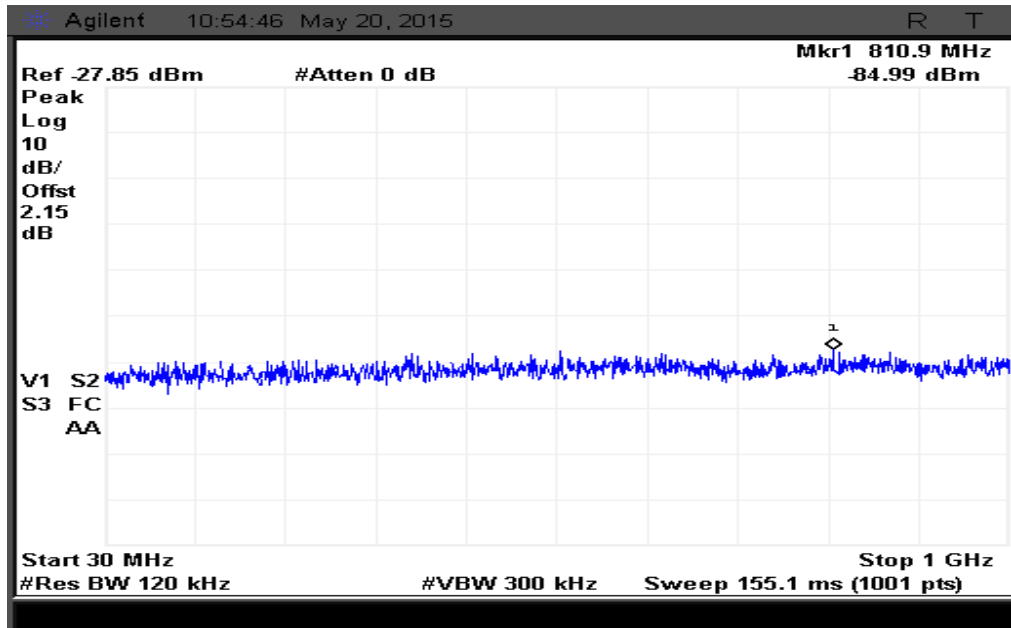


Figure 95: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

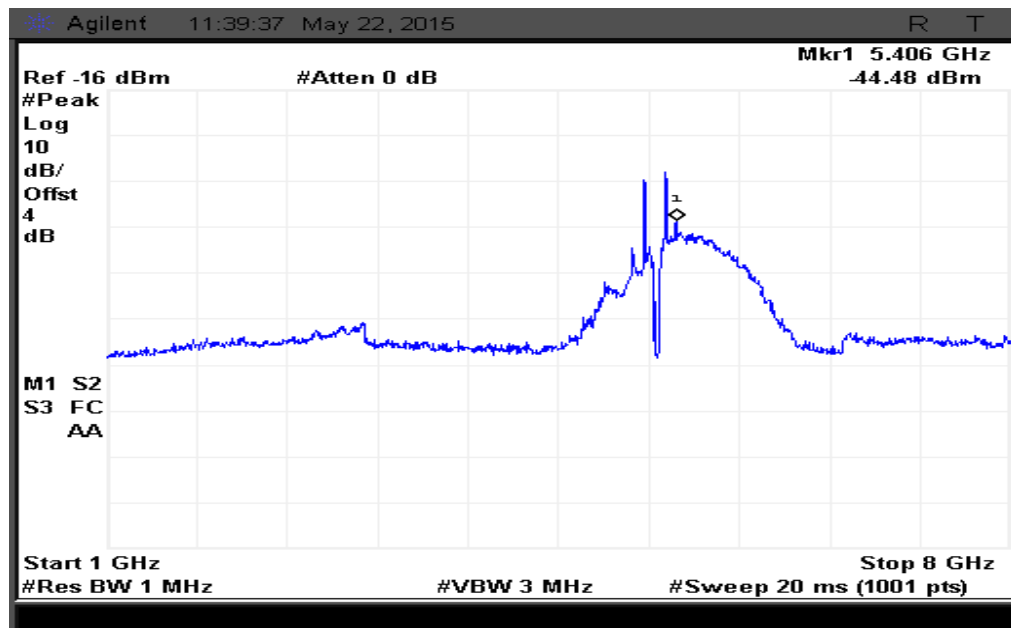


Figure 96: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

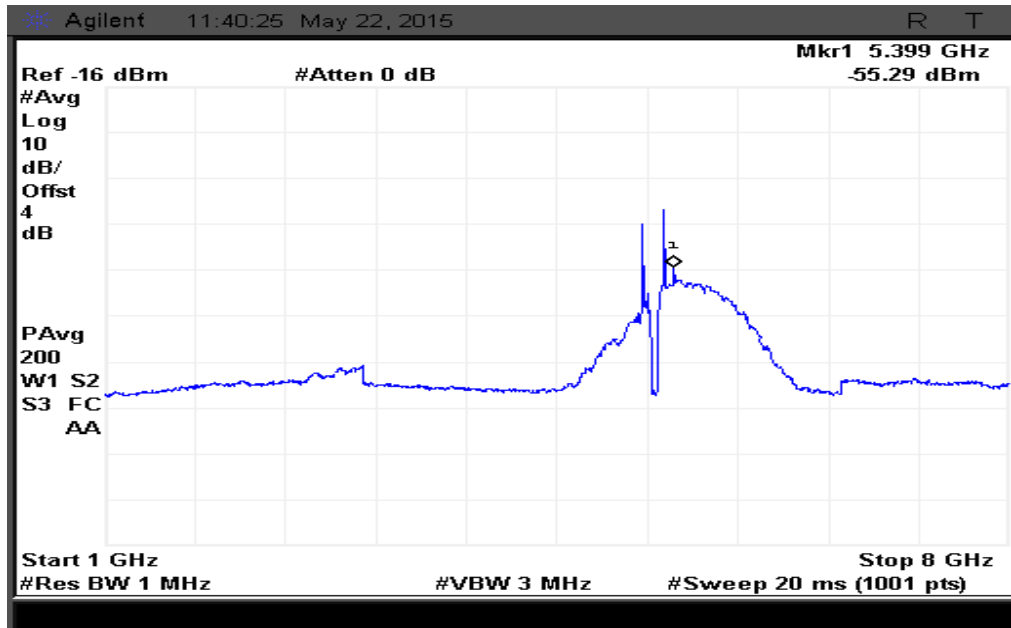


Figure 97: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

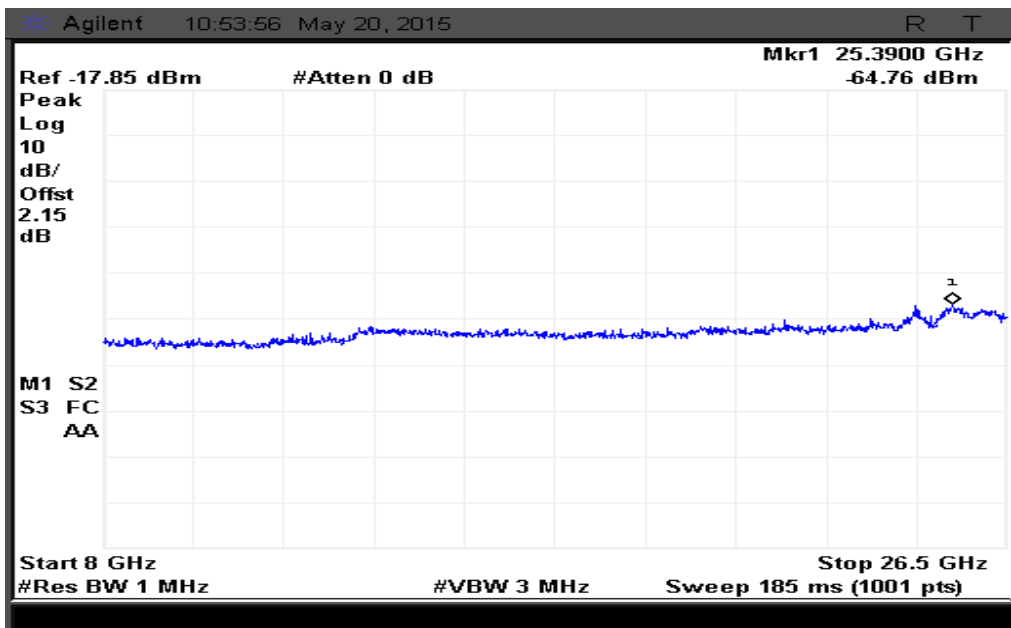


Figure 98: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

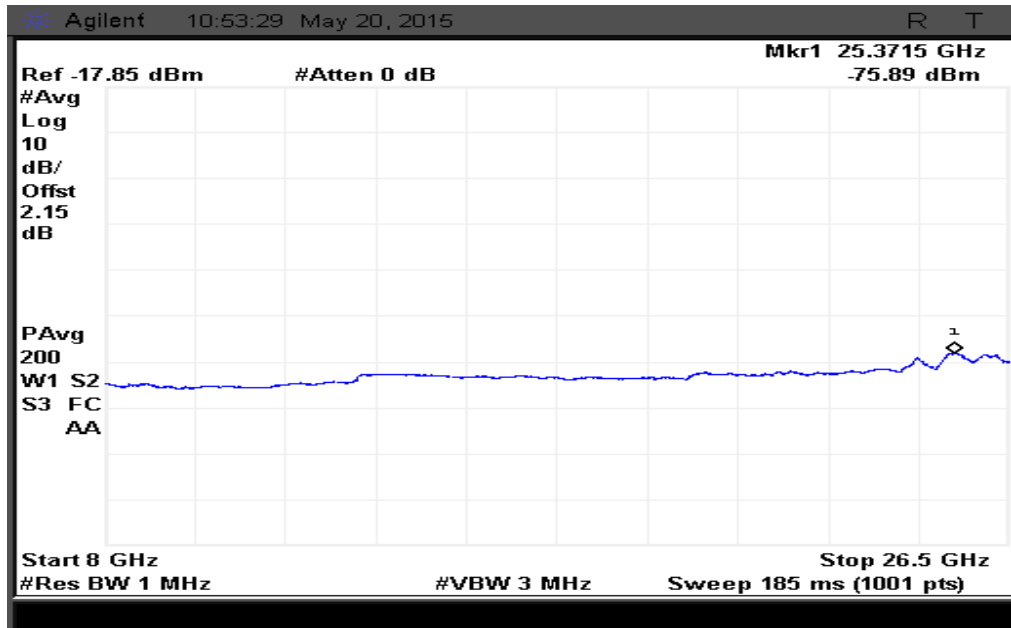


Figure 99: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

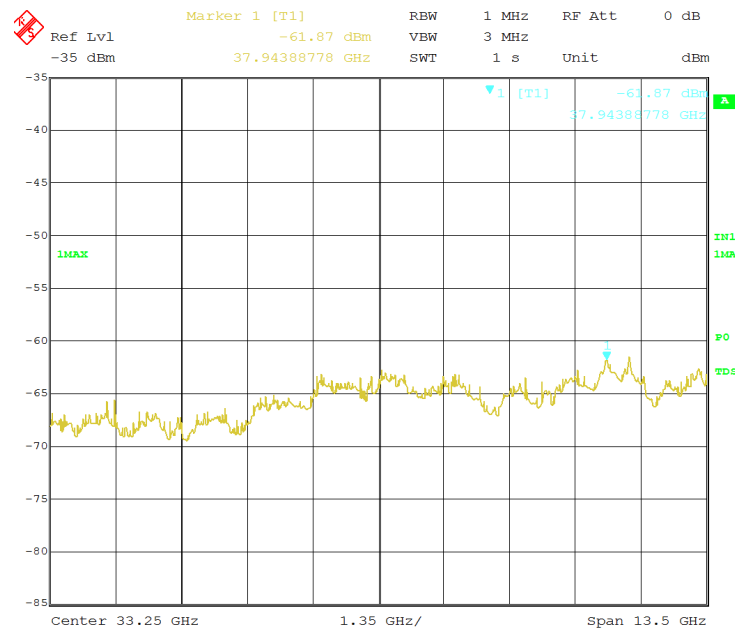


Figure 100: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

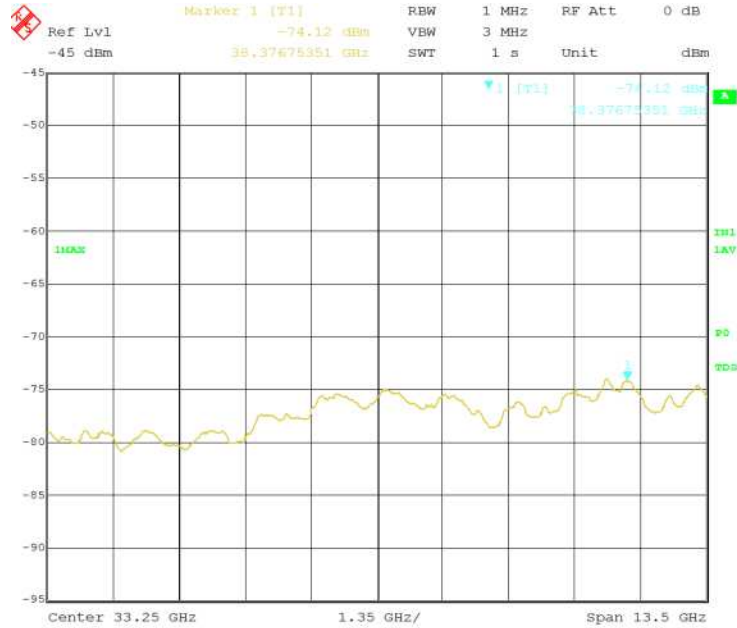


Figure 101: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

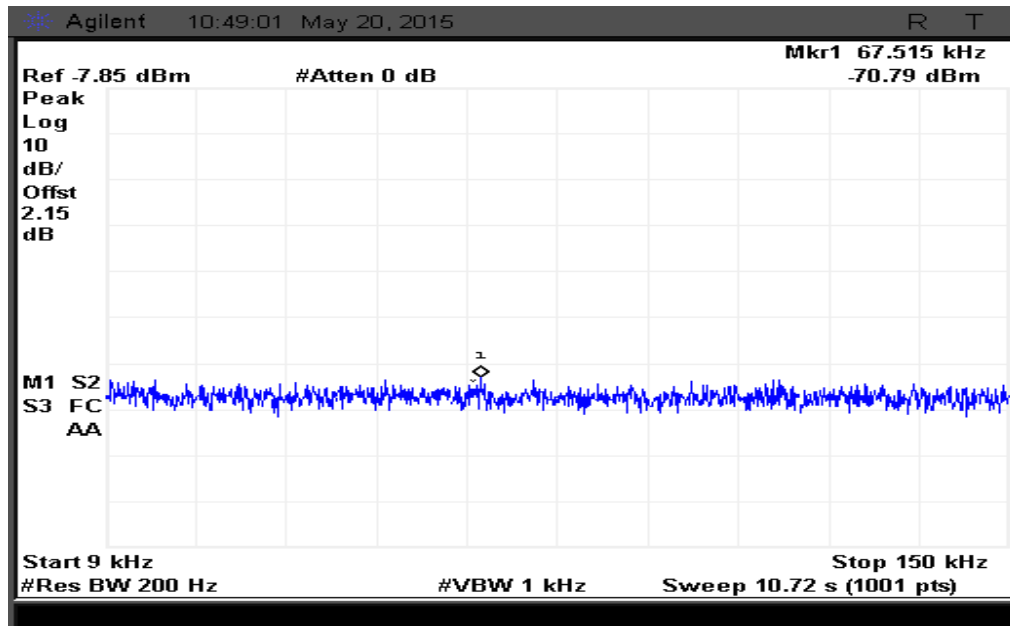


Figure 102: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

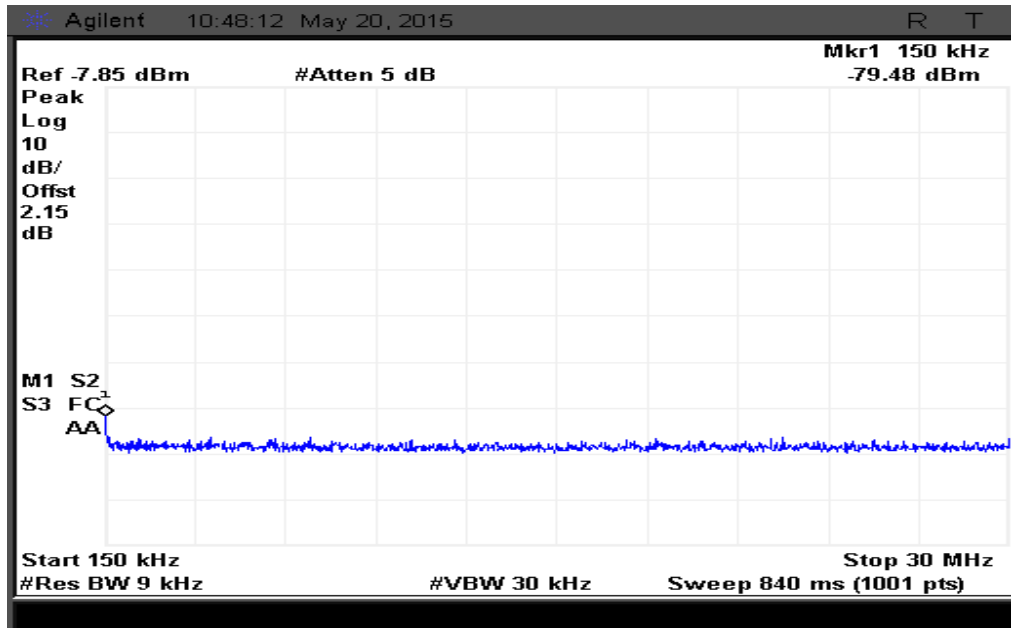


Figure 103: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

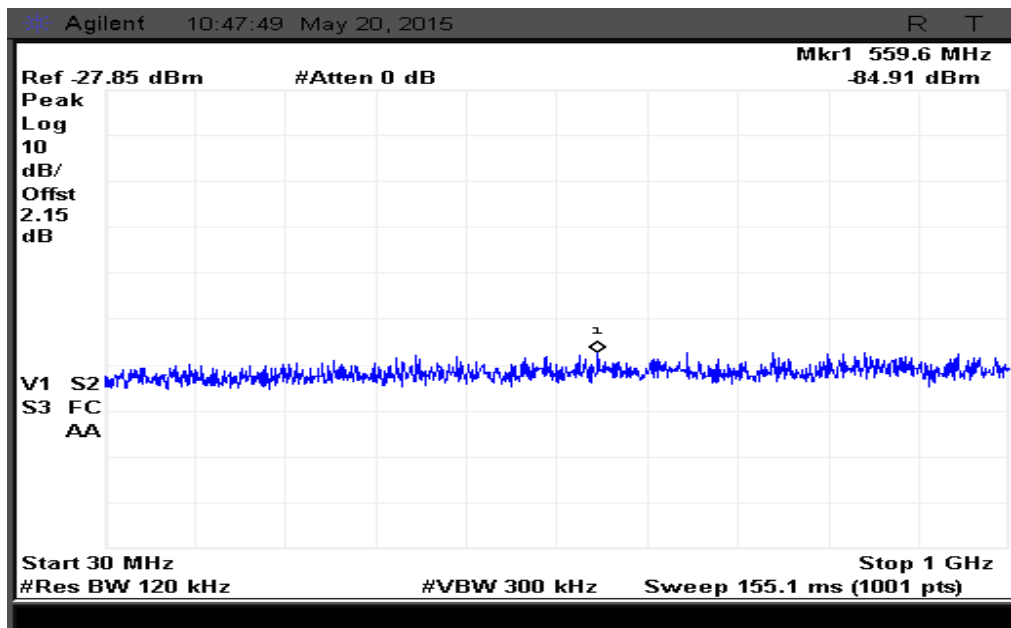


Figure 104: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

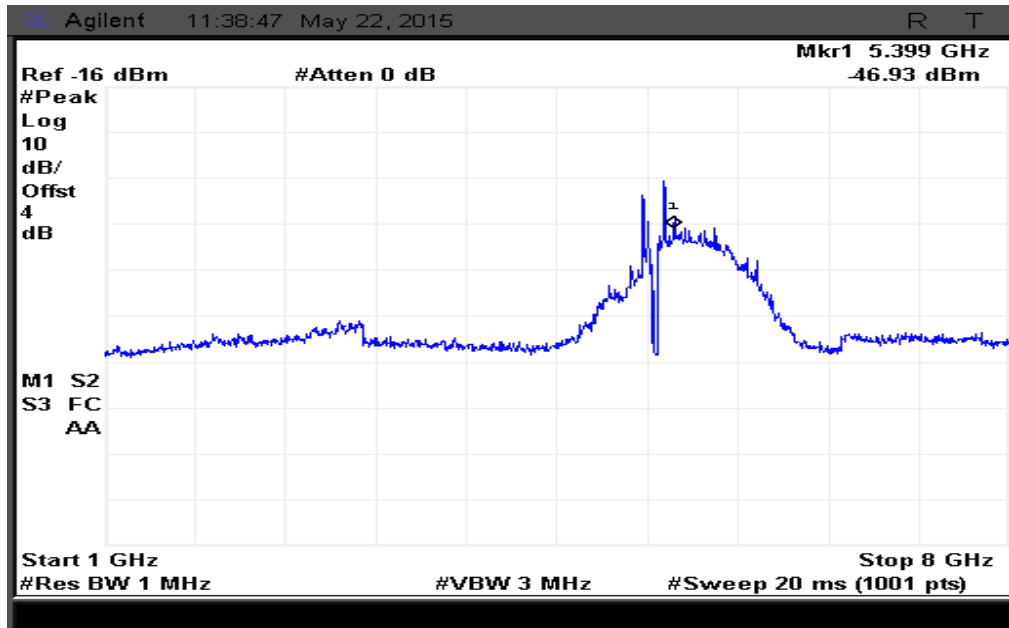


Figure 105: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

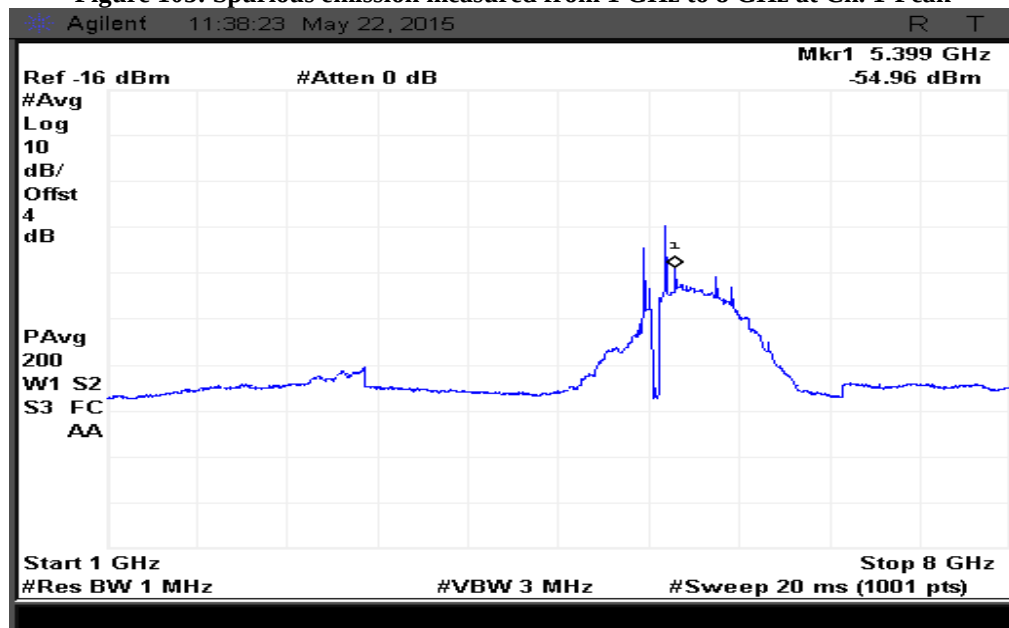


Figure 106: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

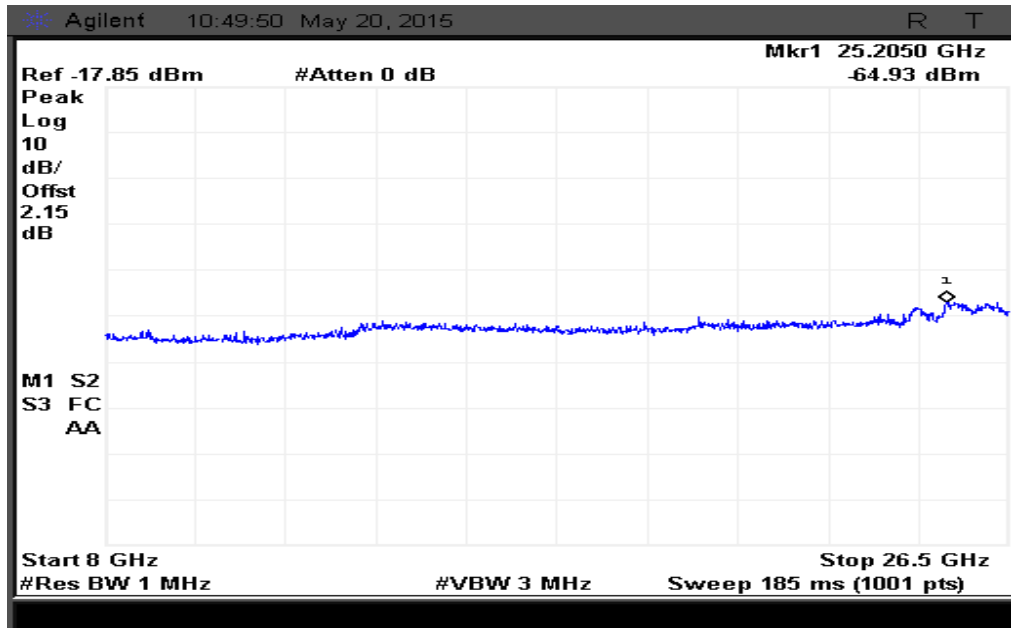


Figure 107: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

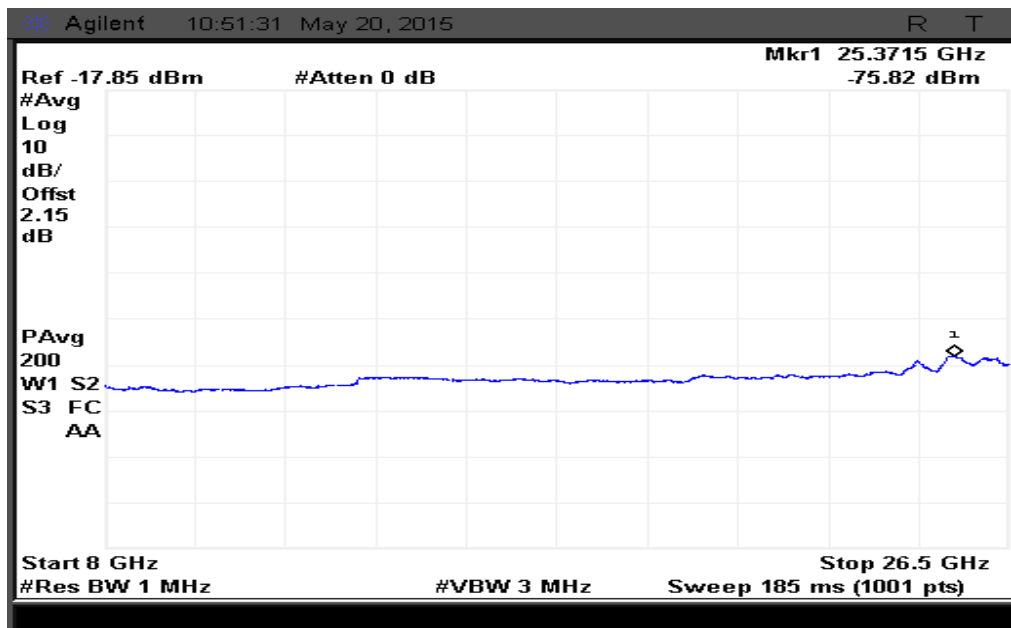


Figure 108: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

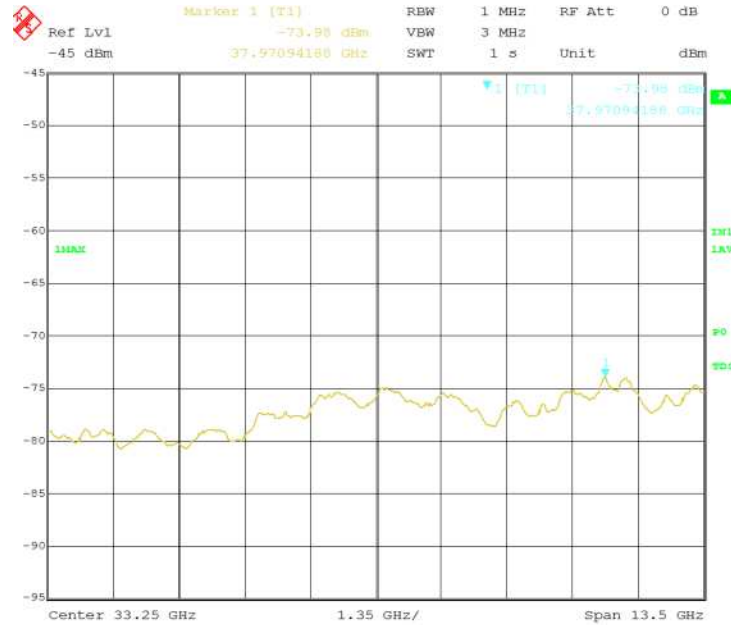


Figure 109: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

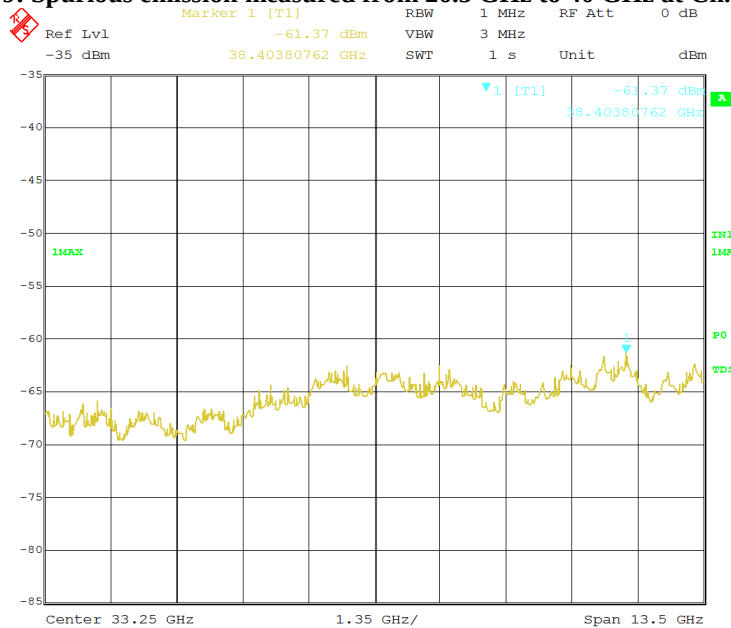


Figure 110: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.6 RESULT (SUPPORTING GRAPHS / DATA) FOR 17DBI ANTENNA CONDITION

5.3.1.6.1 40MHz MODULATION BW - Low CHANNEL_5180 MHz

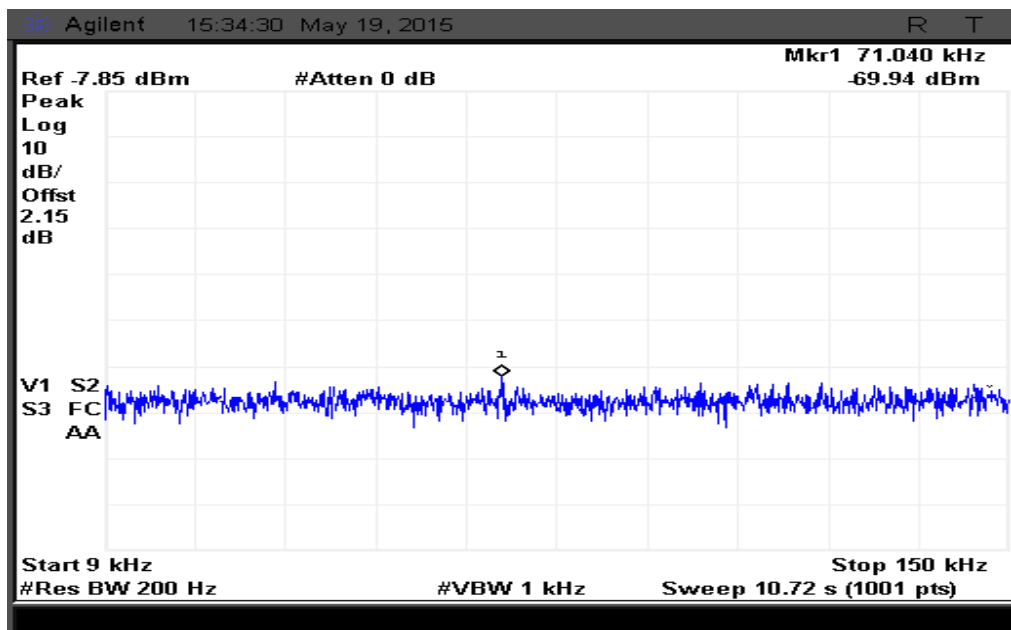


Figure 111: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

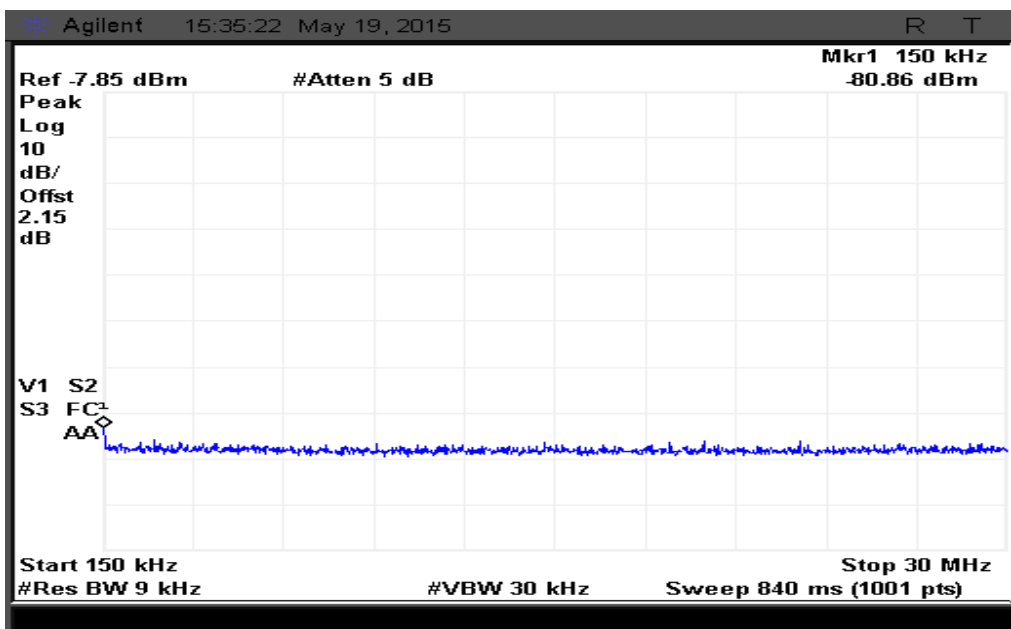


Figure 112: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

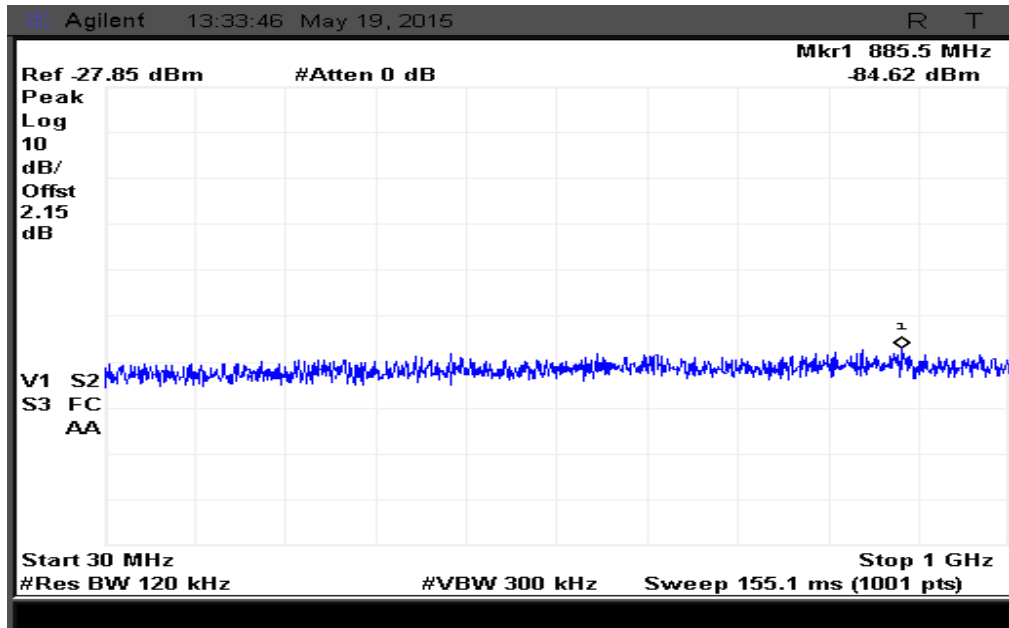


Figure 113: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

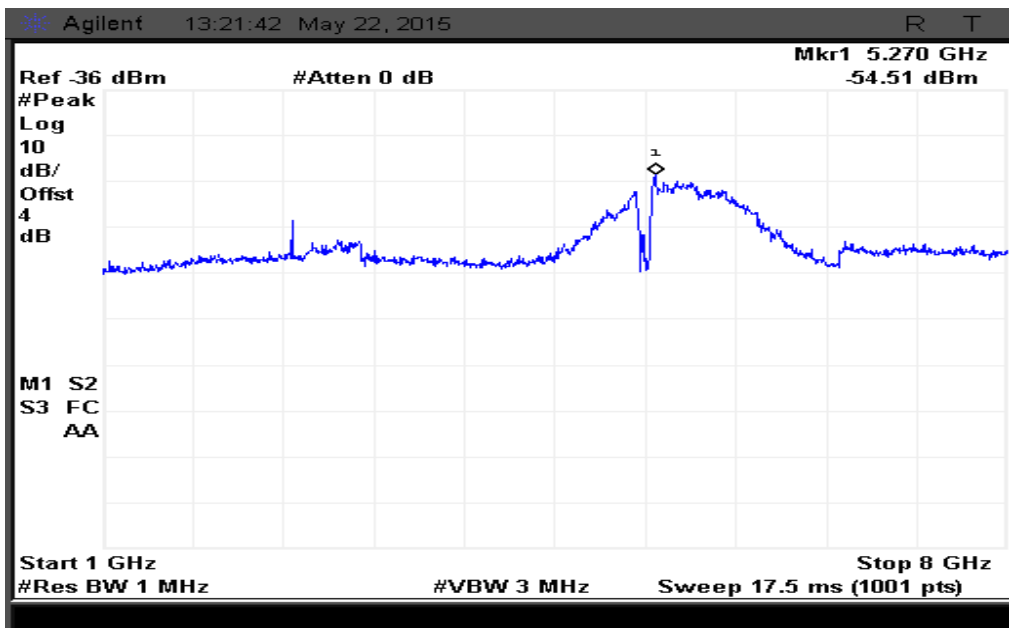


Figure 114: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

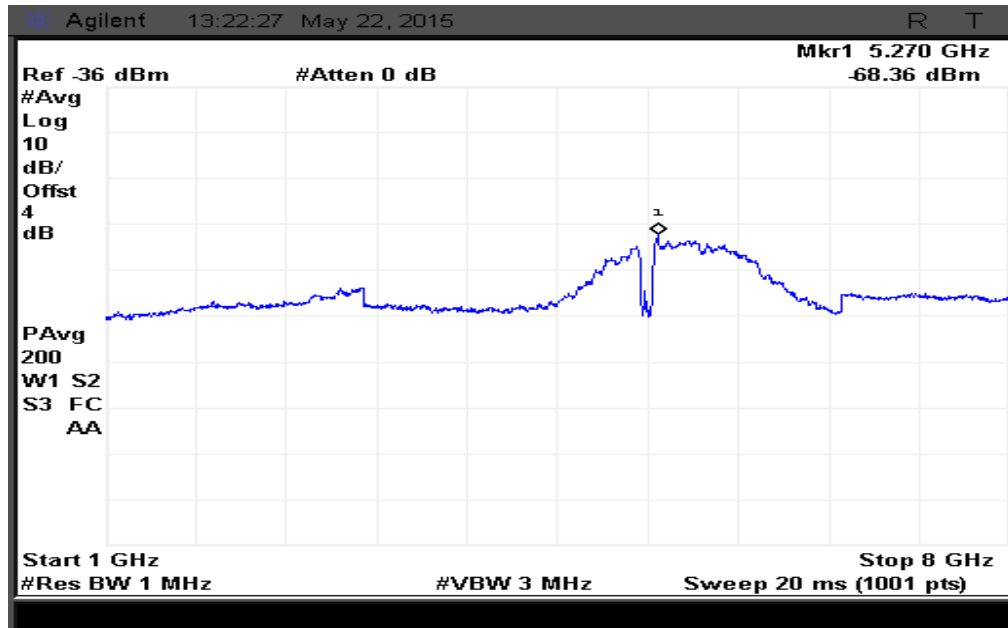


Figure 115: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

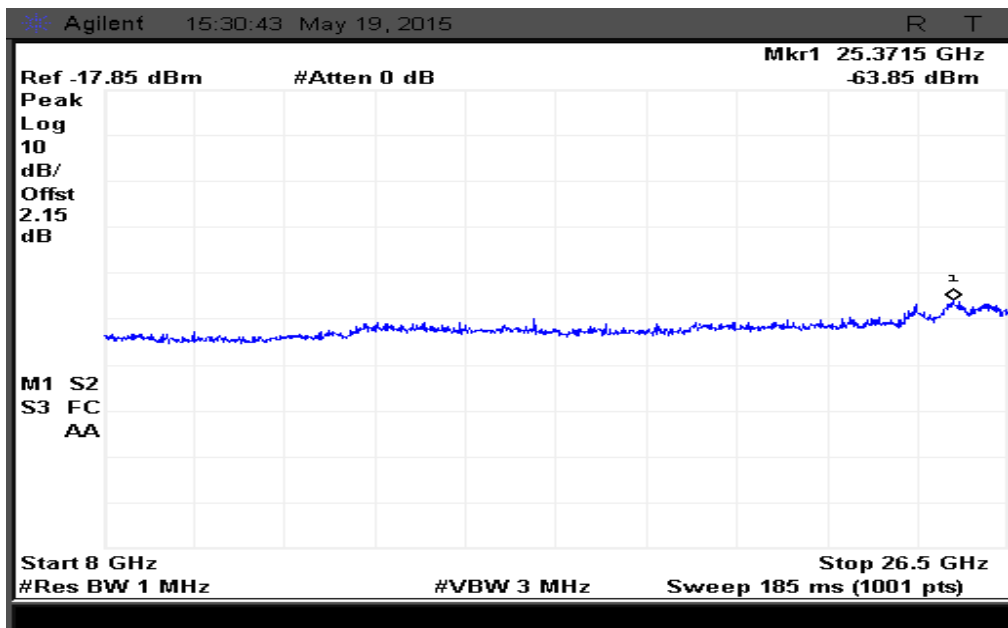


Figure 116: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

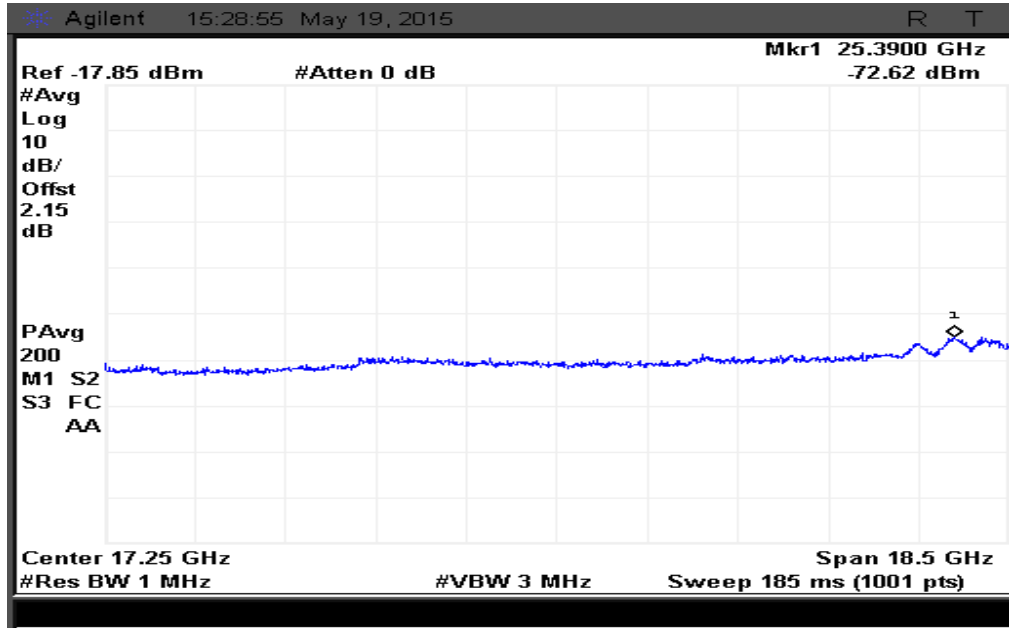


Figure 117: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

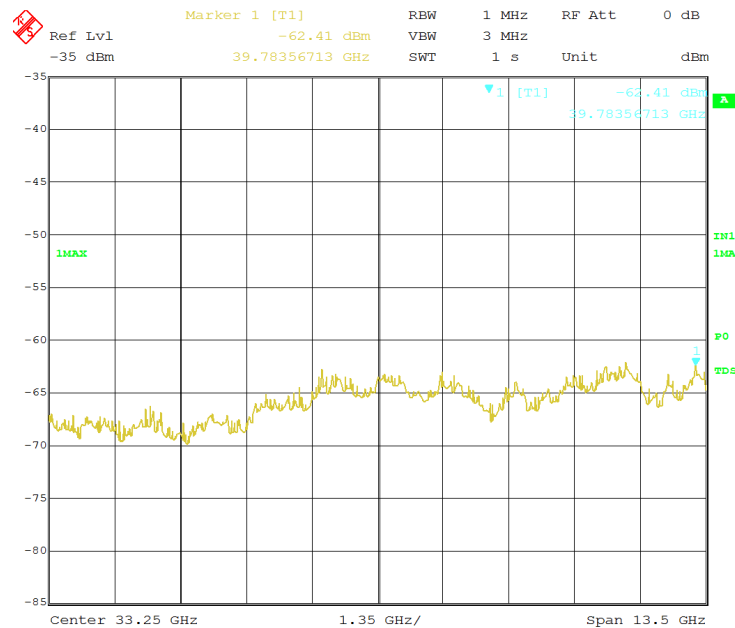


Figure 118: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

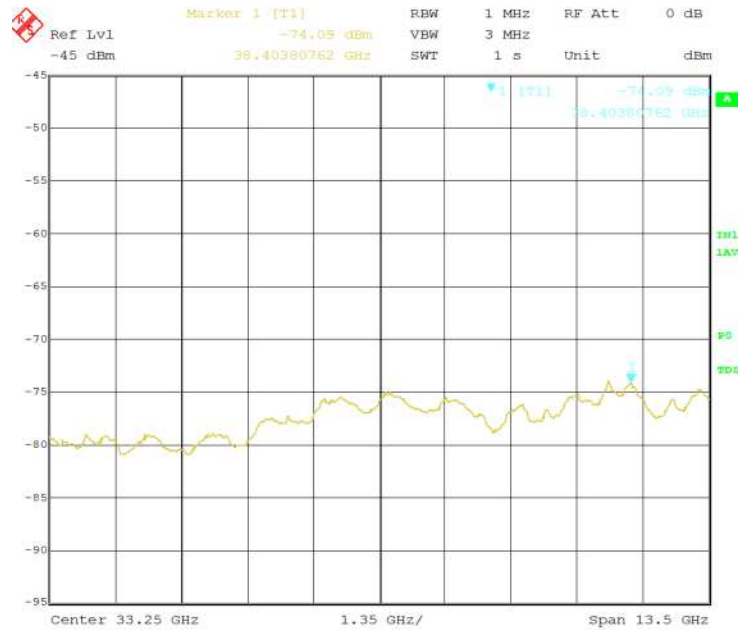


Figure 119: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg

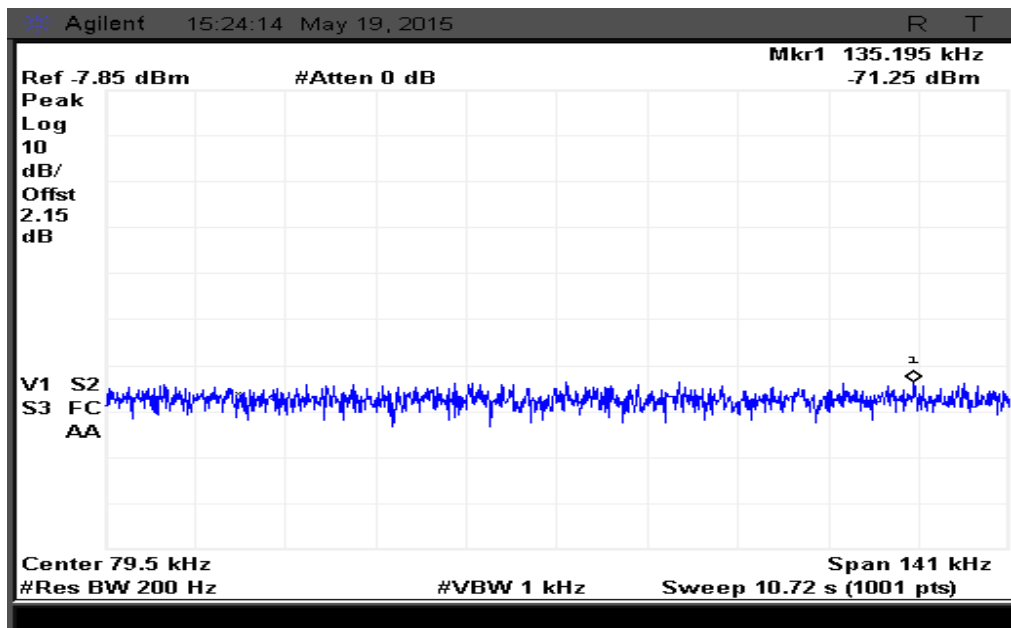


Figure 120: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

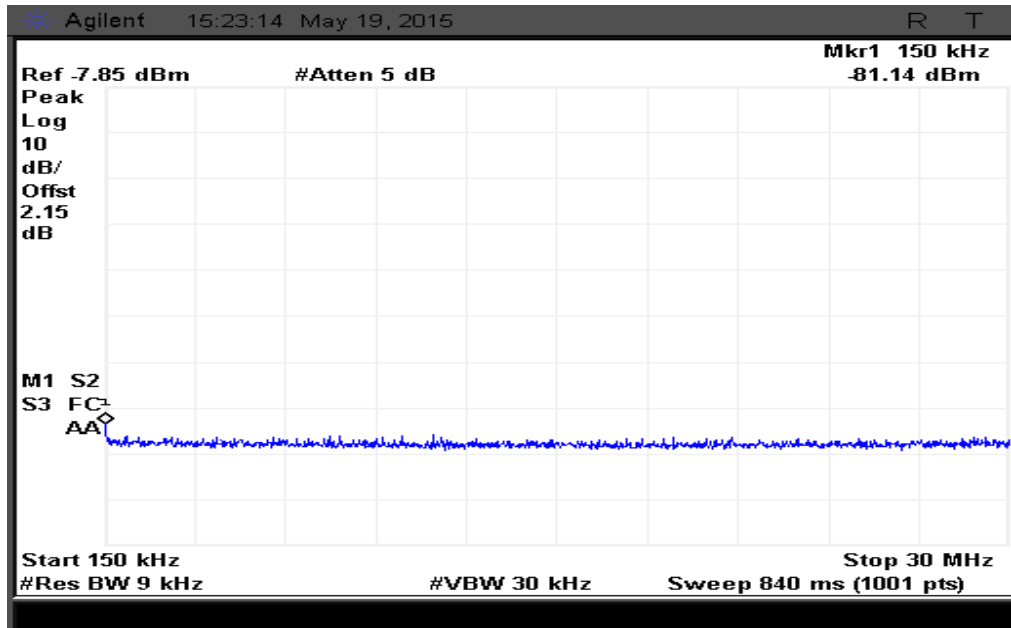


Figure 121: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

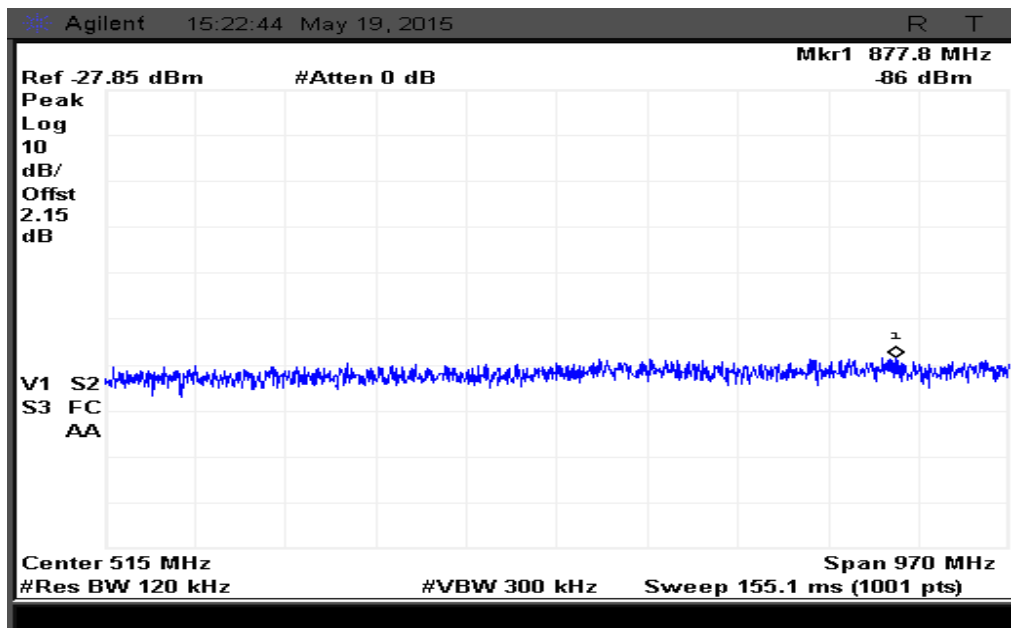


Figure 122: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

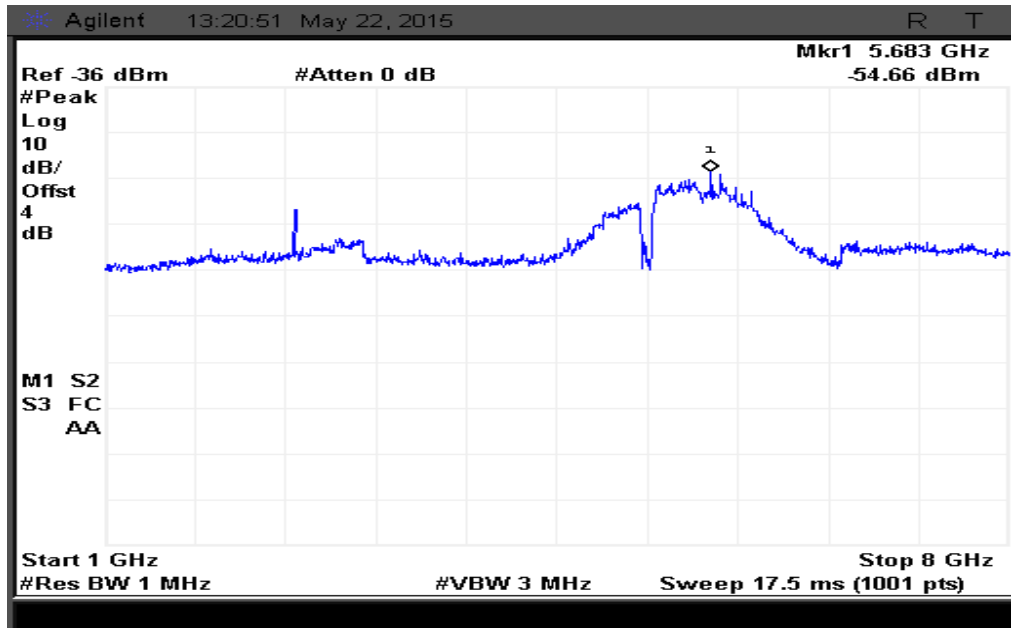


Figure 123: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

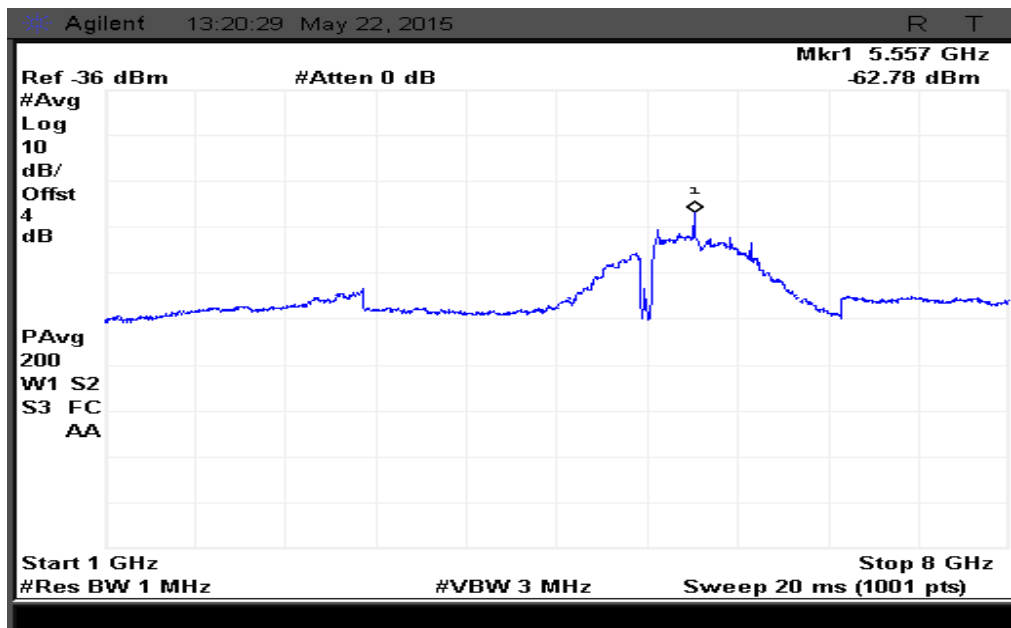


Figure 124: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

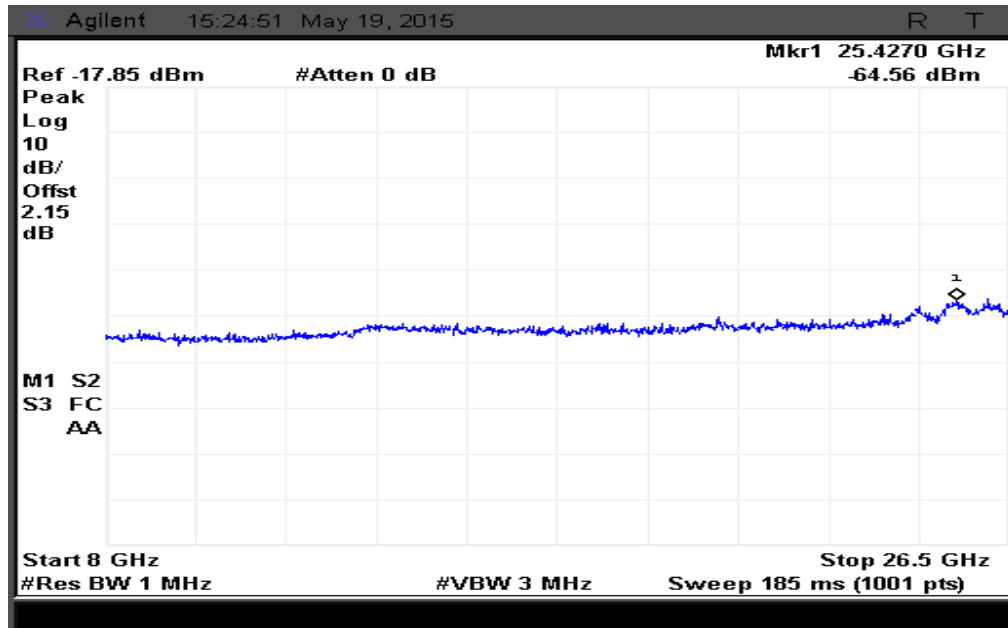


Figure 125: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

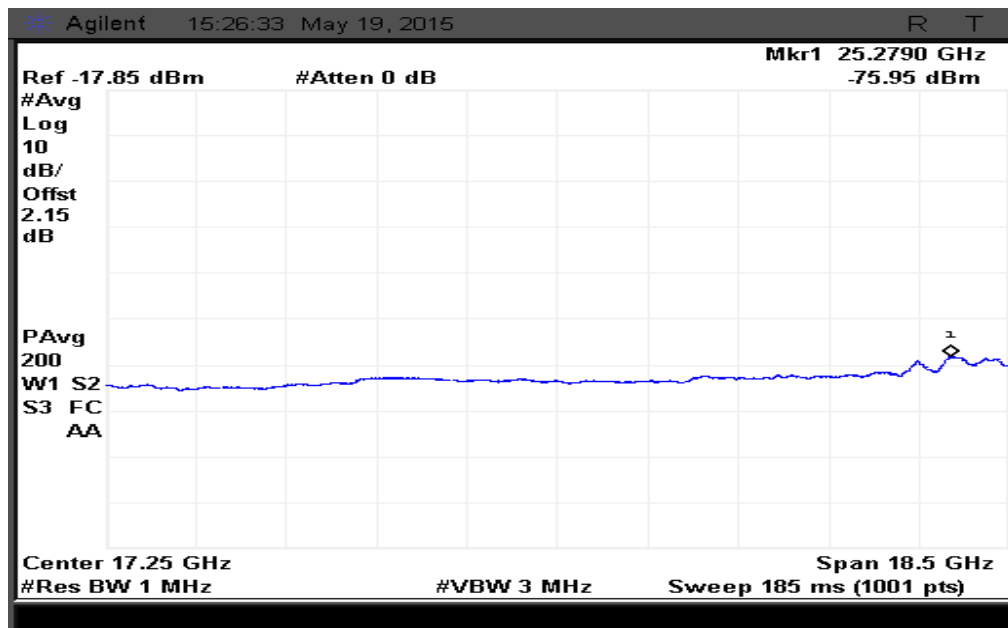


Figure 126: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

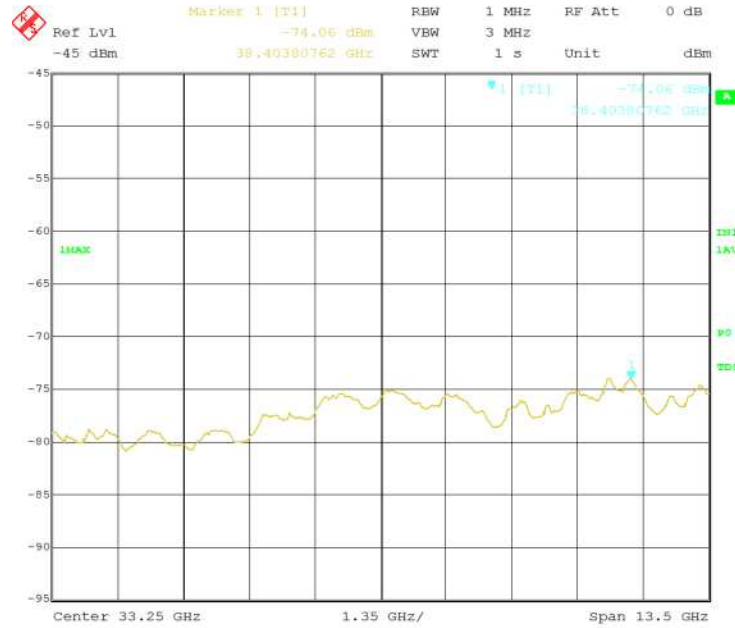


Figure 127: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

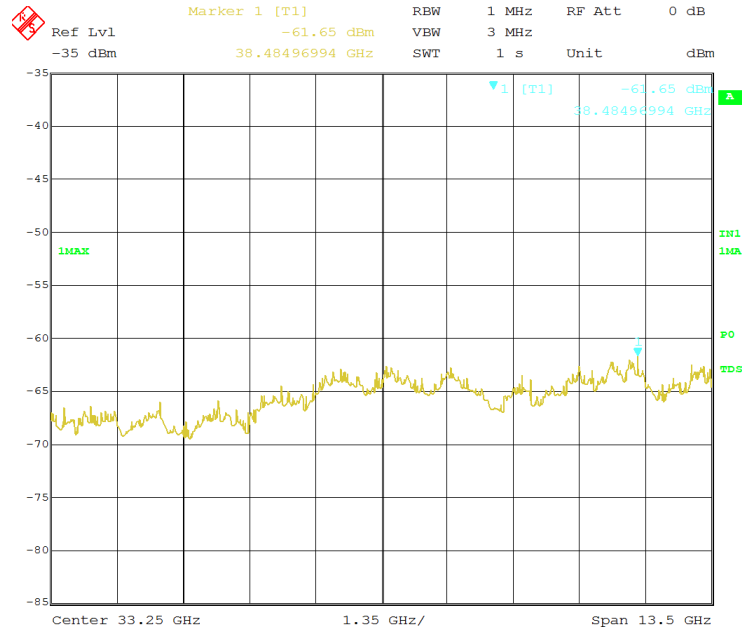


Figure 128: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.6.2 40MHz MODULATION BW - MID CHANNEL_5200 MHz

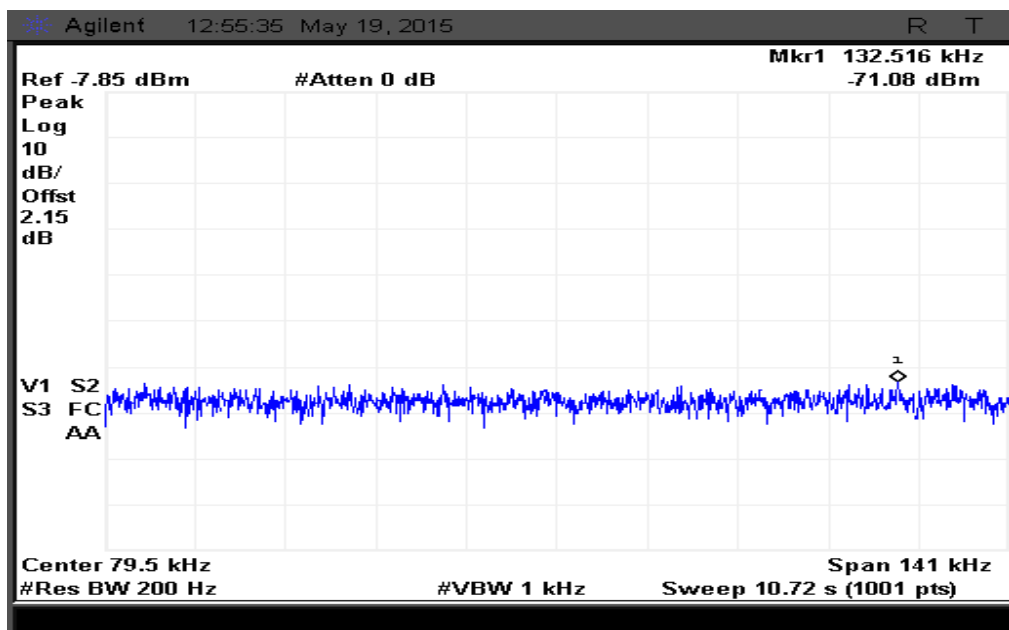


Figure 129: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

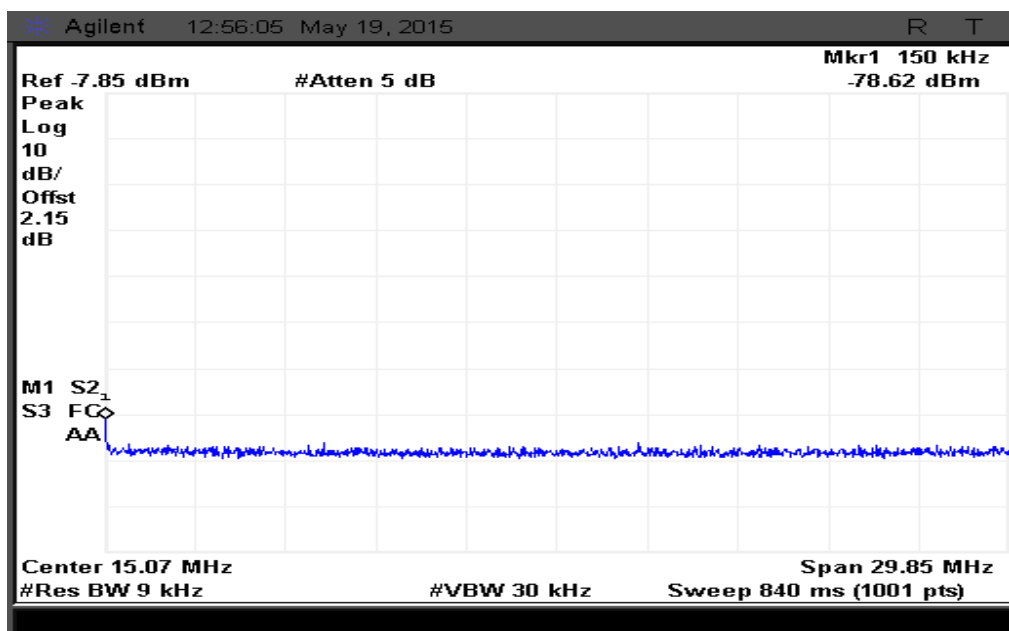


Figure 130: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

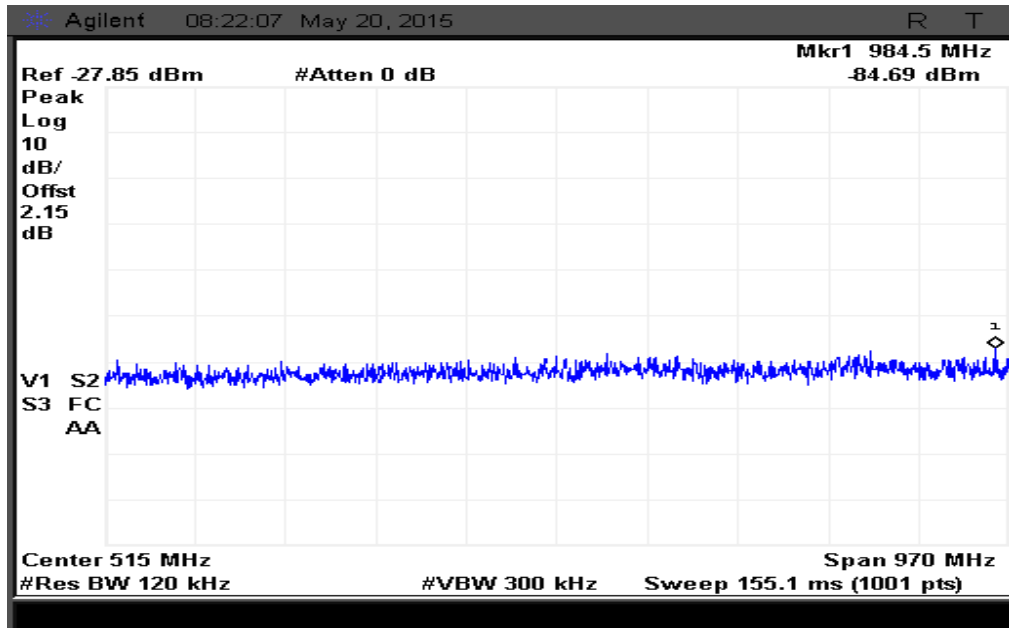


Figure 131: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

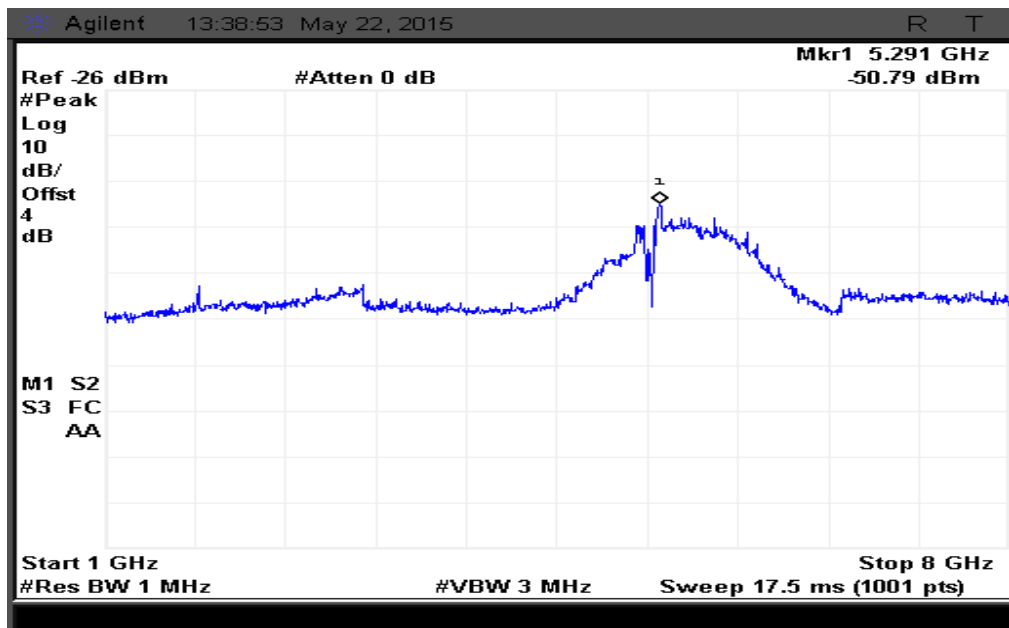


Figure 132: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

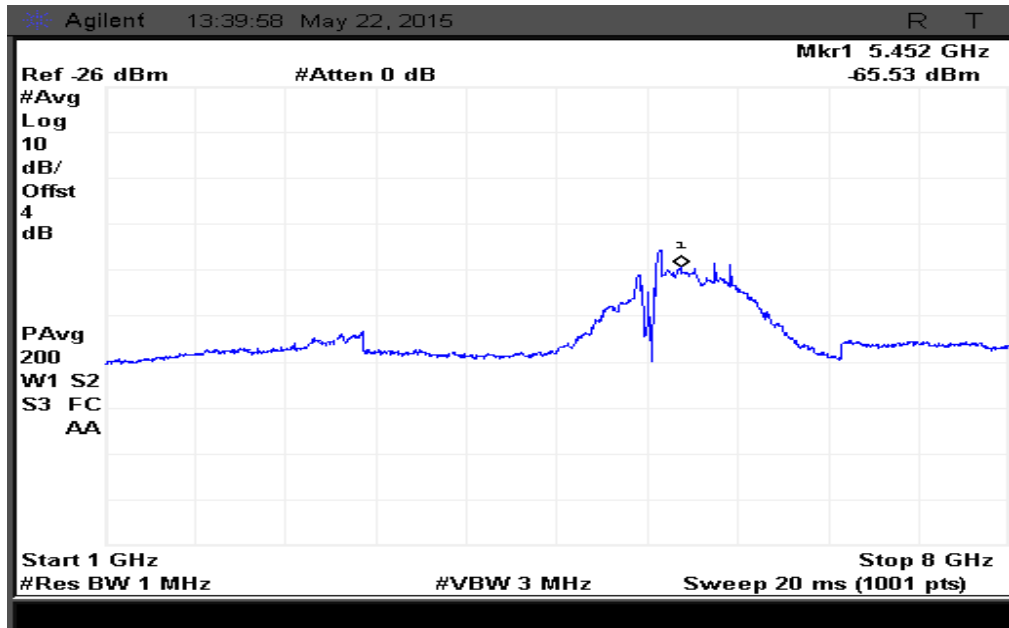


Figure 133: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

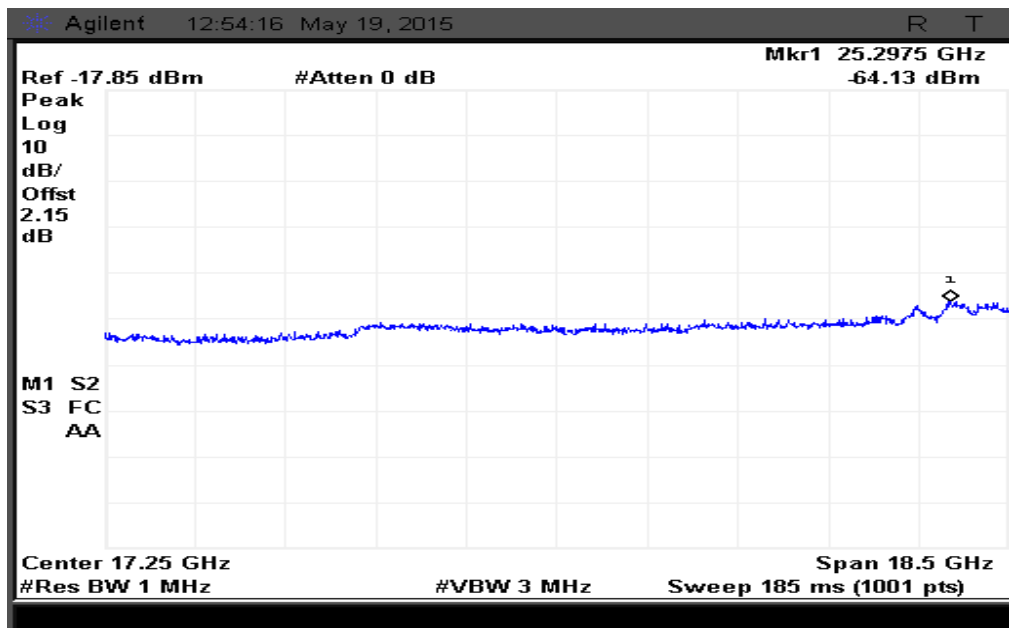


Figure 134: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

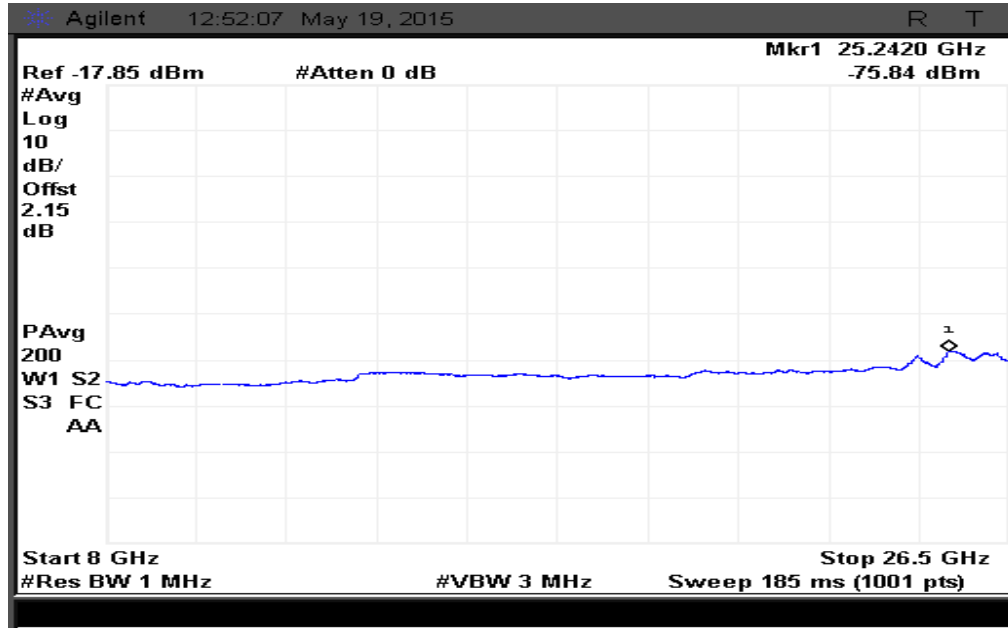


Figure 135: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

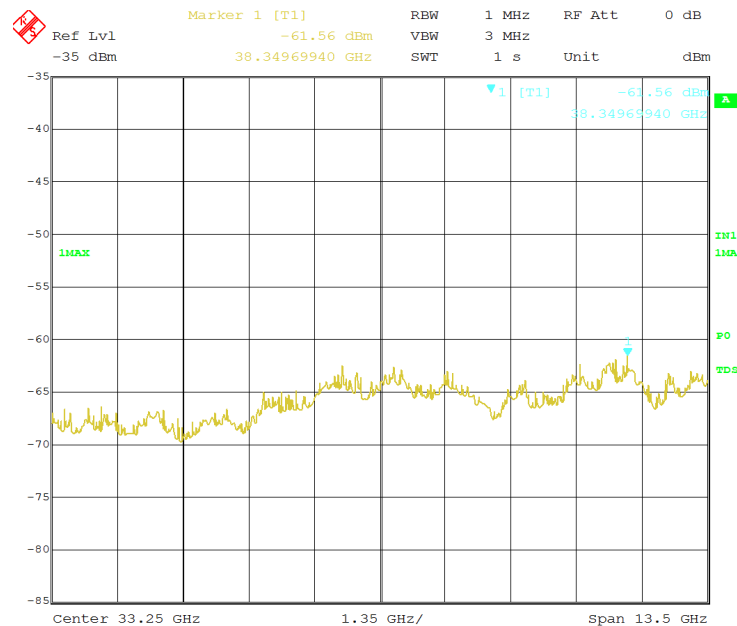


Figure 136: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

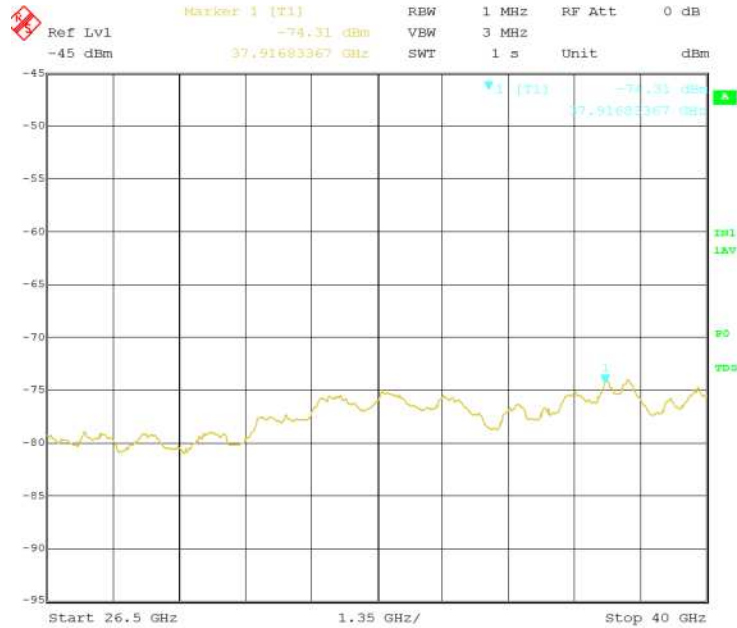


Figure 137: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

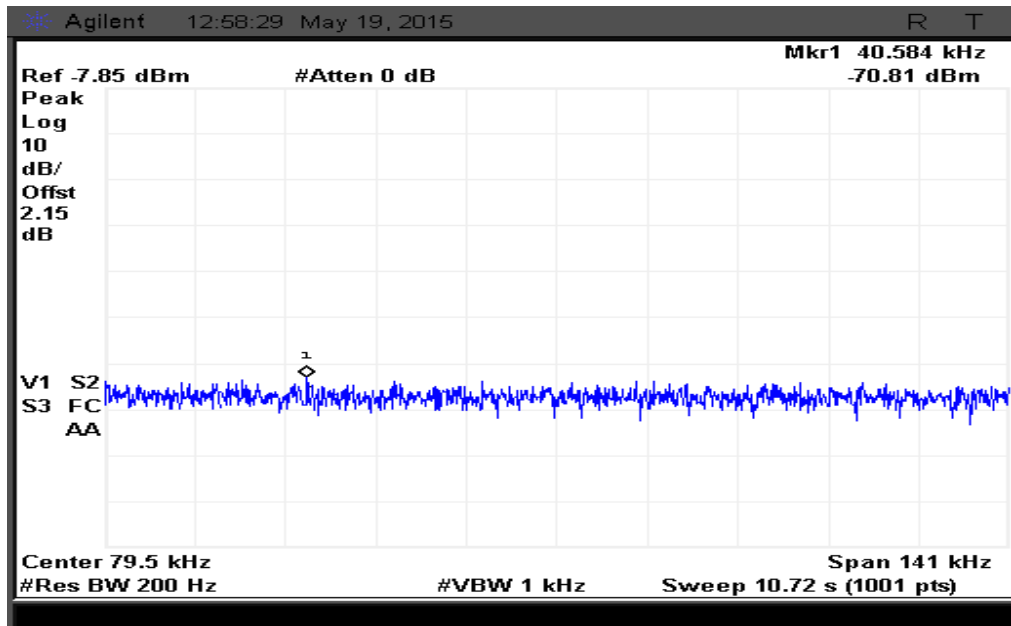


Figure 138: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

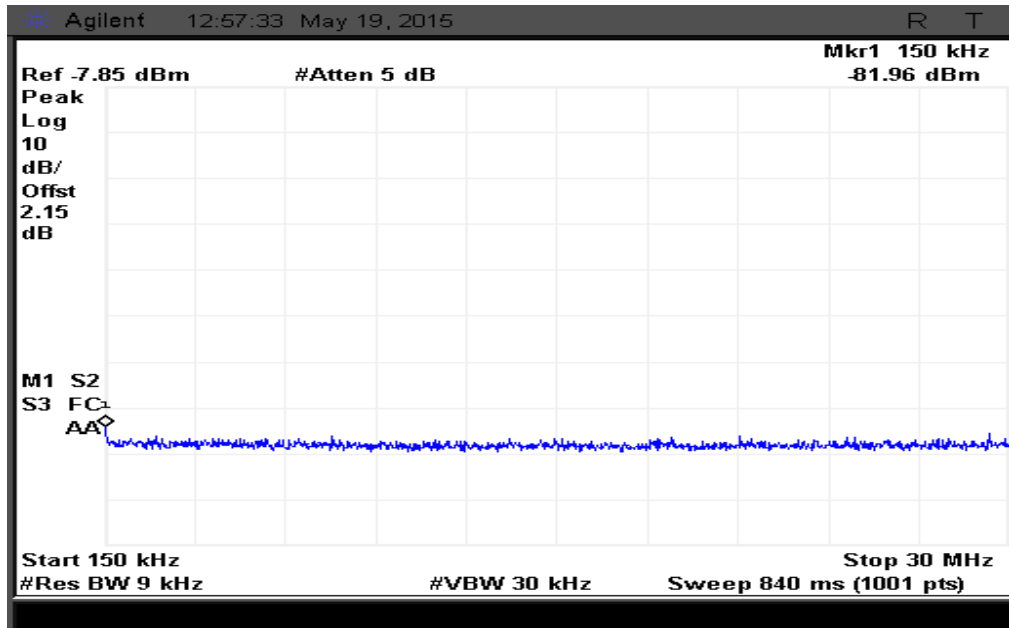


Figure 139: Spurious emission measured from 150 kHz to 30 kHz at Ch. 1-Peak

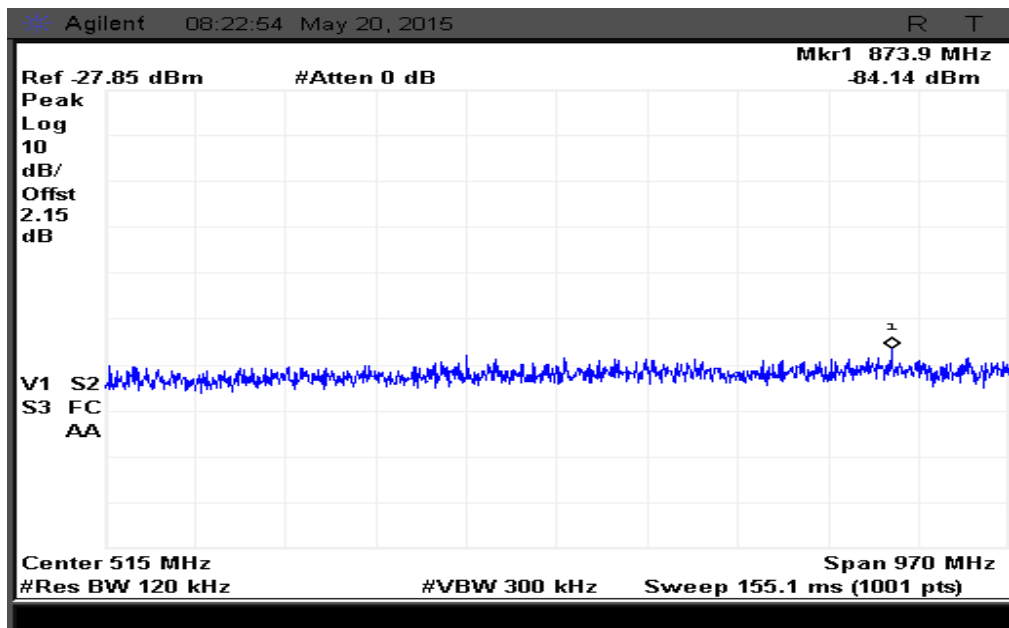


Figure 140: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

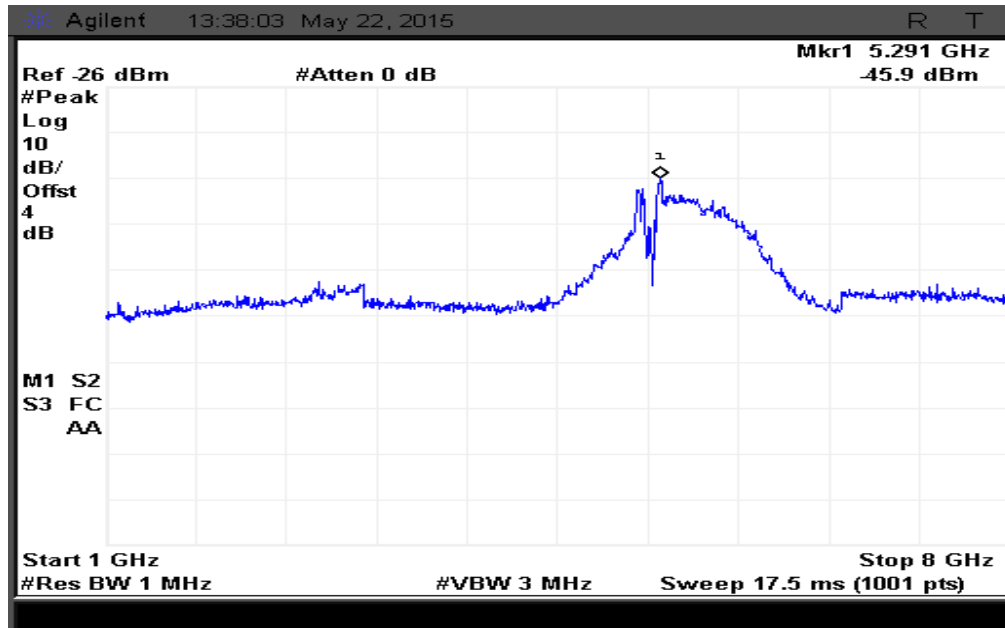


Figure 141: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

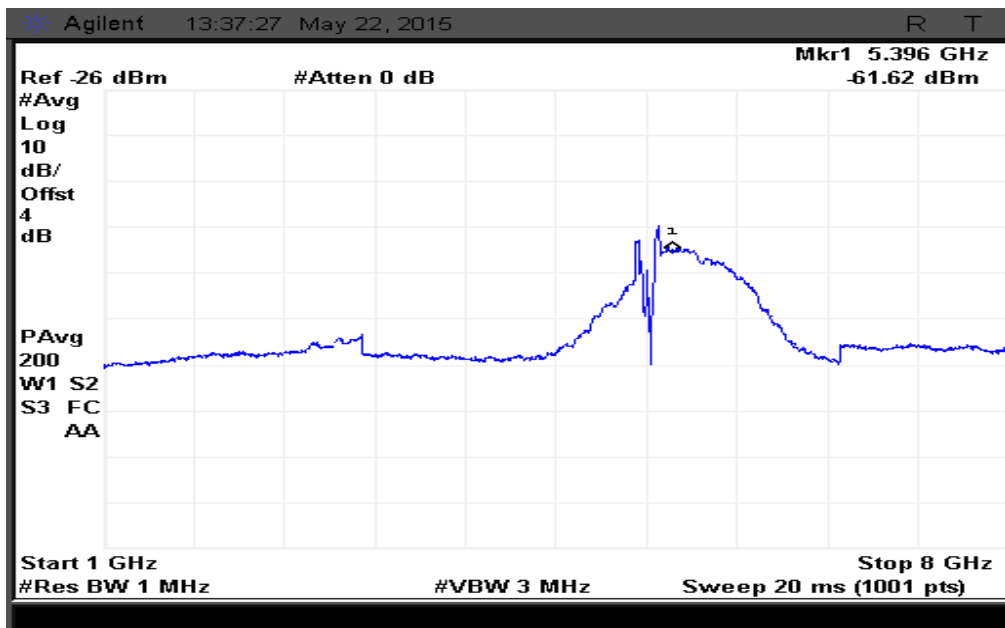


Figure 142: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

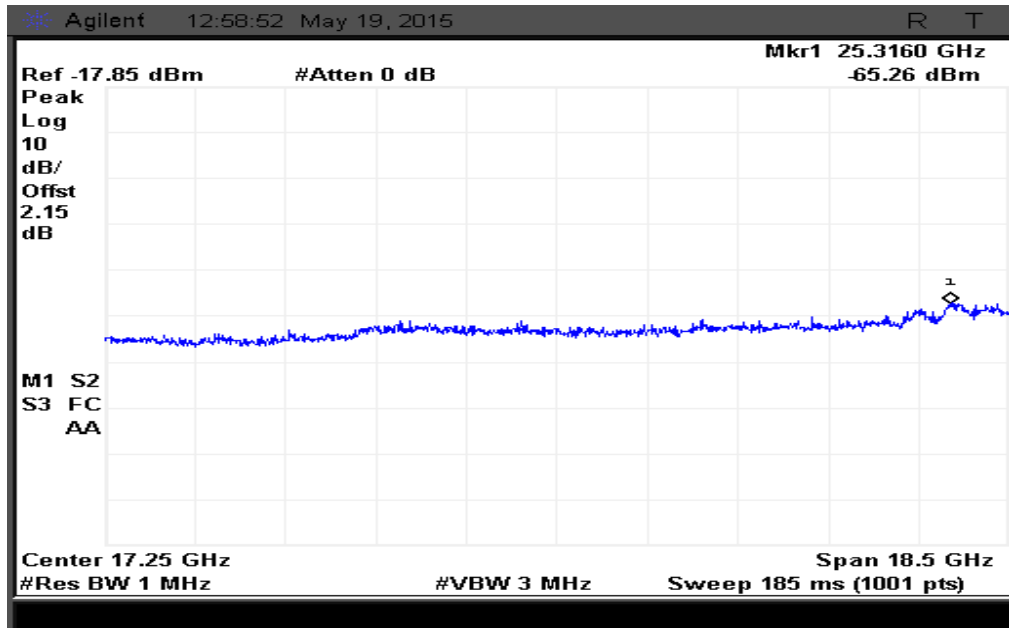


Figure 143: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

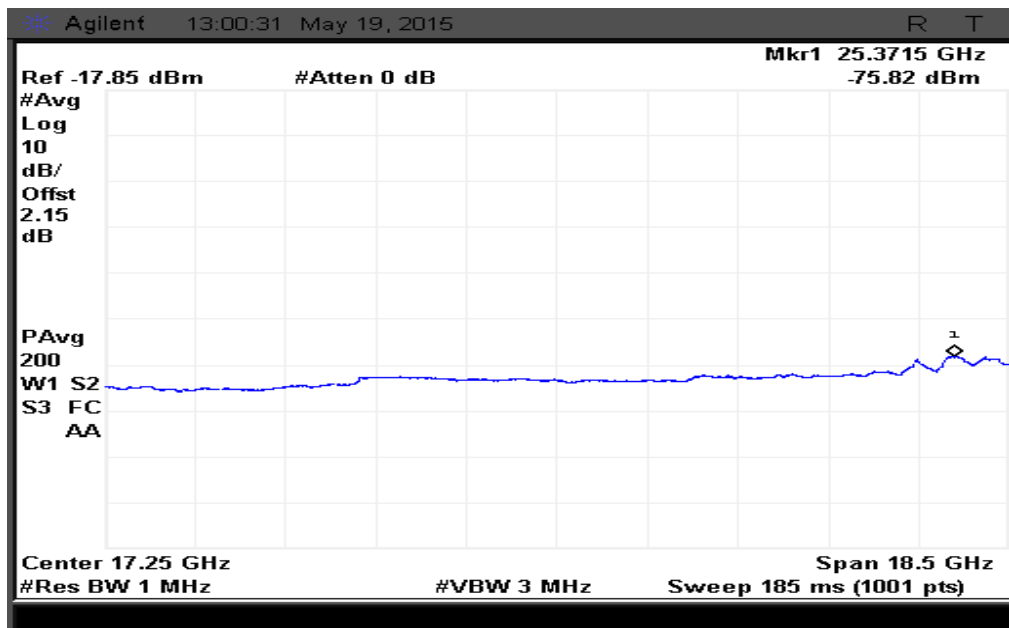


Figure 144: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

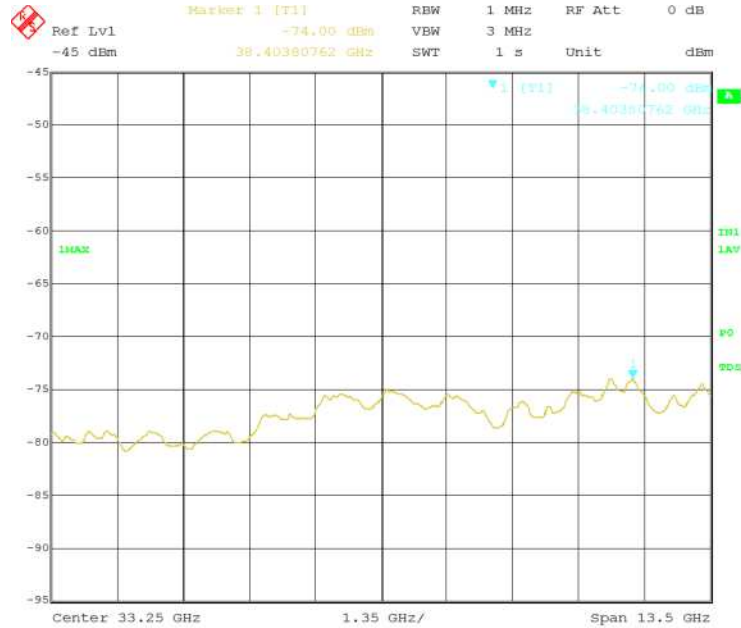


Figure 145: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

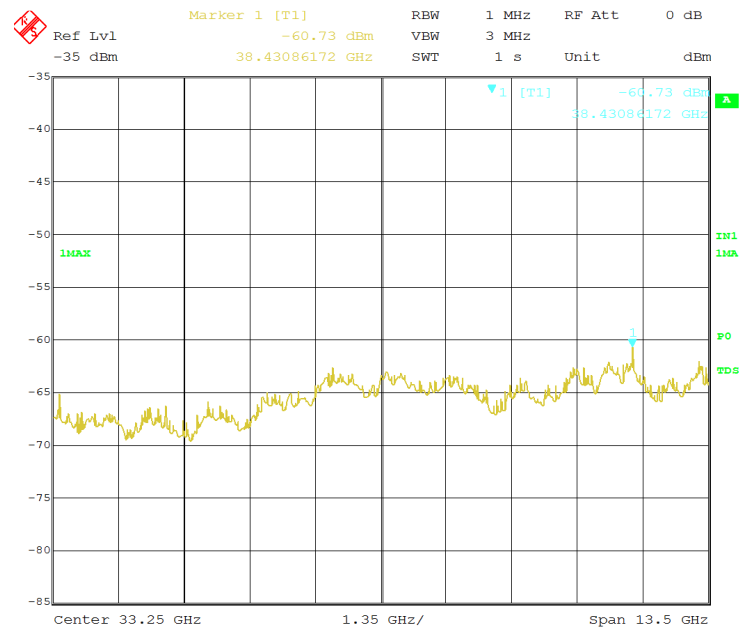


Figure 146: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.6.3 40MHz MODULATION BW - HIGH CHANNEL_5220MHZ

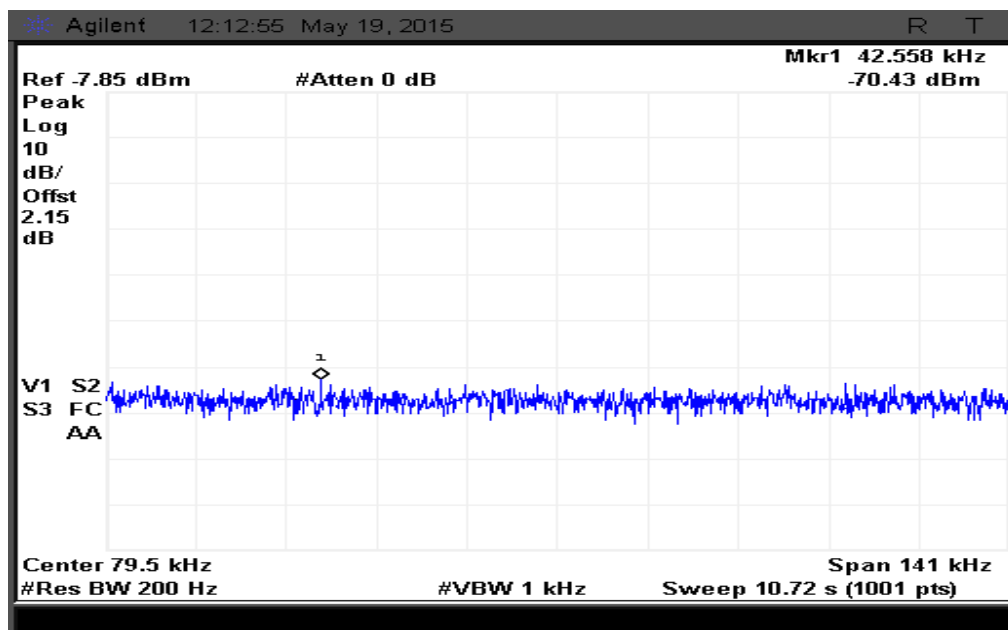


Figure 147: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

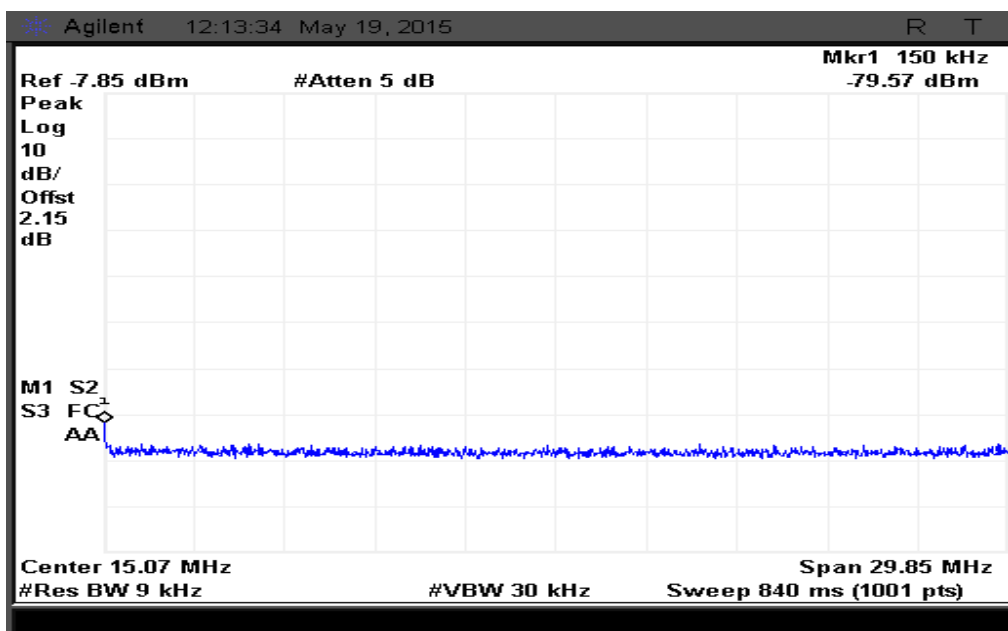


Figure 148: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

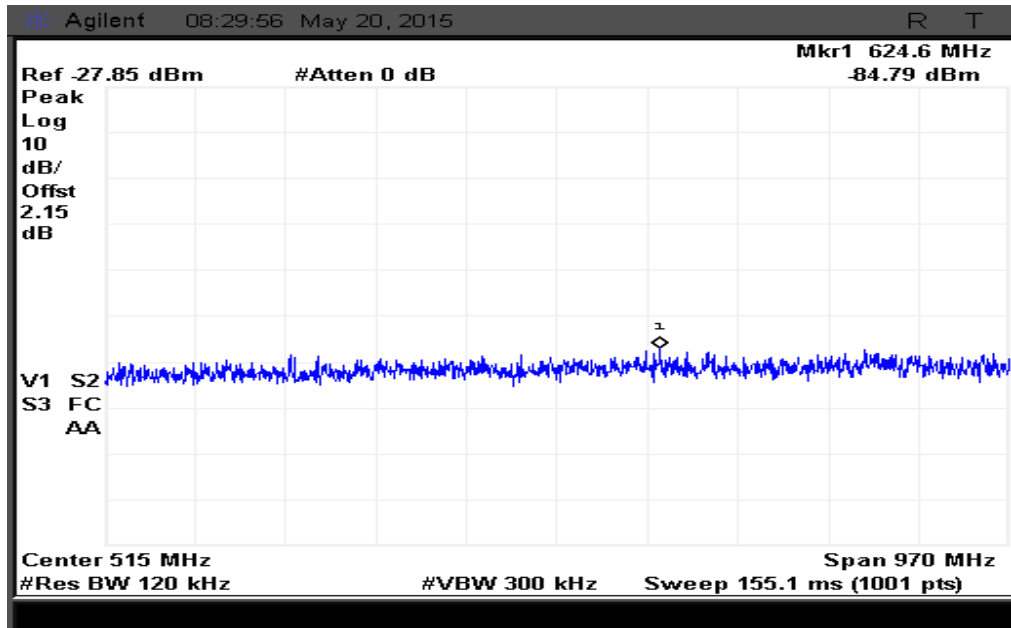


Figure 149: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

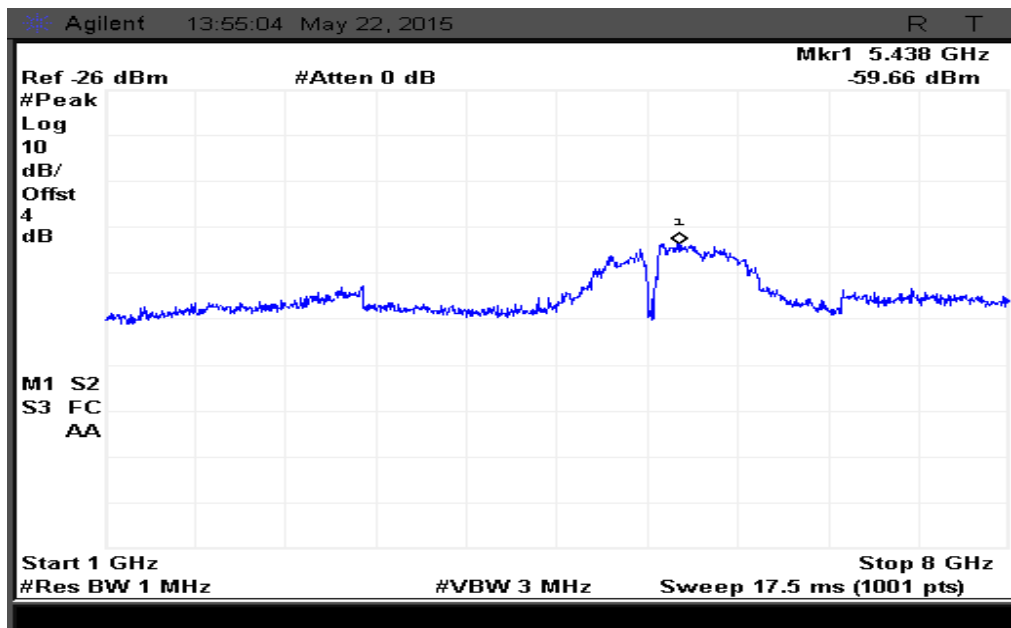


Figure 150: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

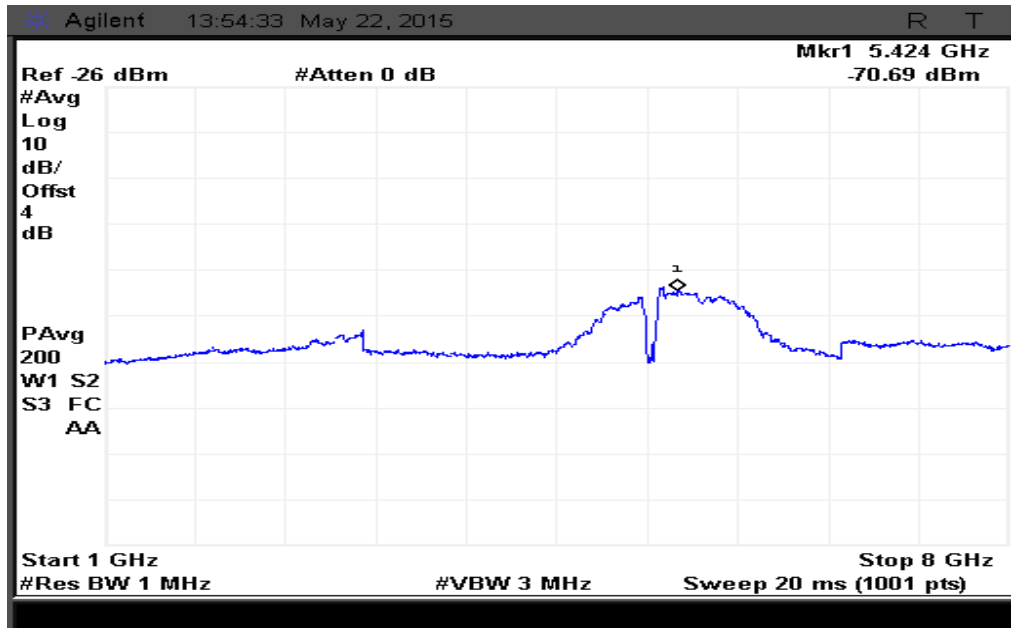


Figure 151: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

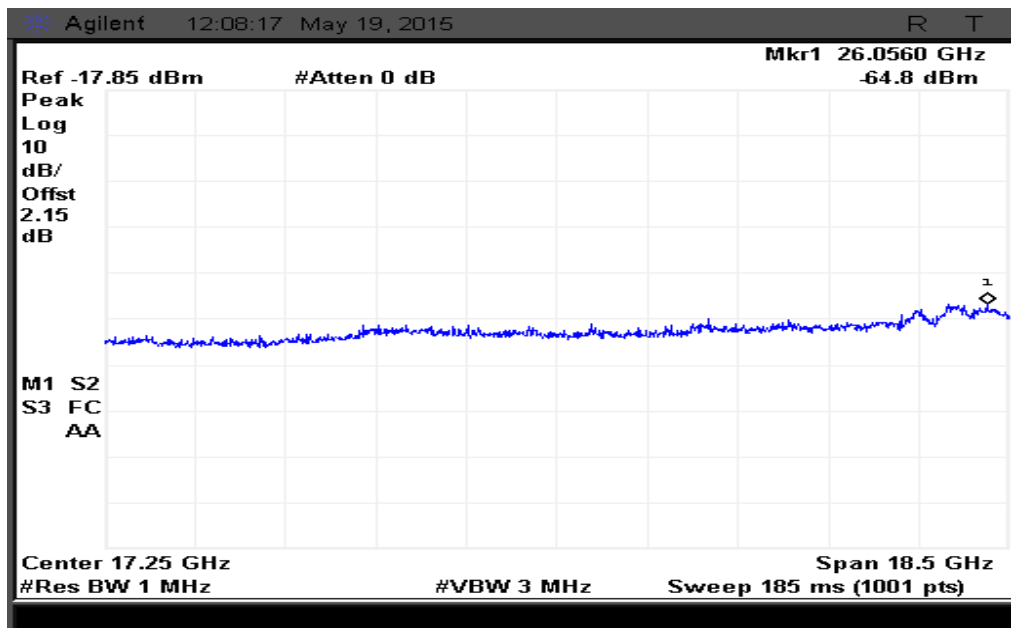


Figure 152: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

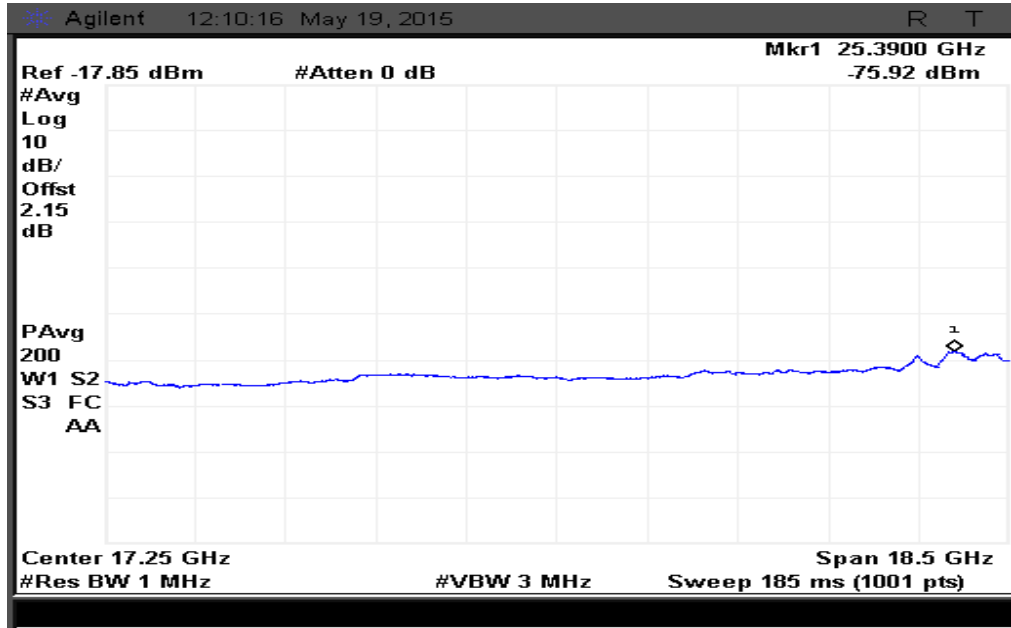


Figure 153: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

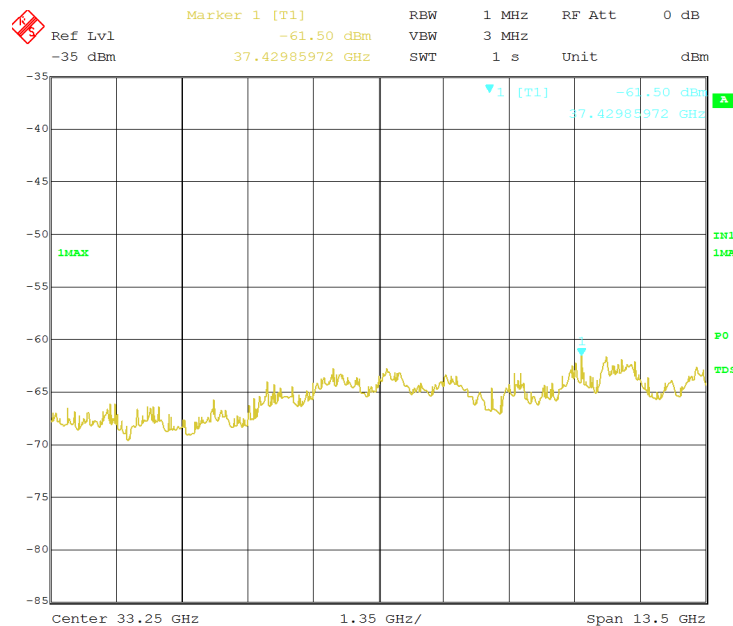


Figure 154: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

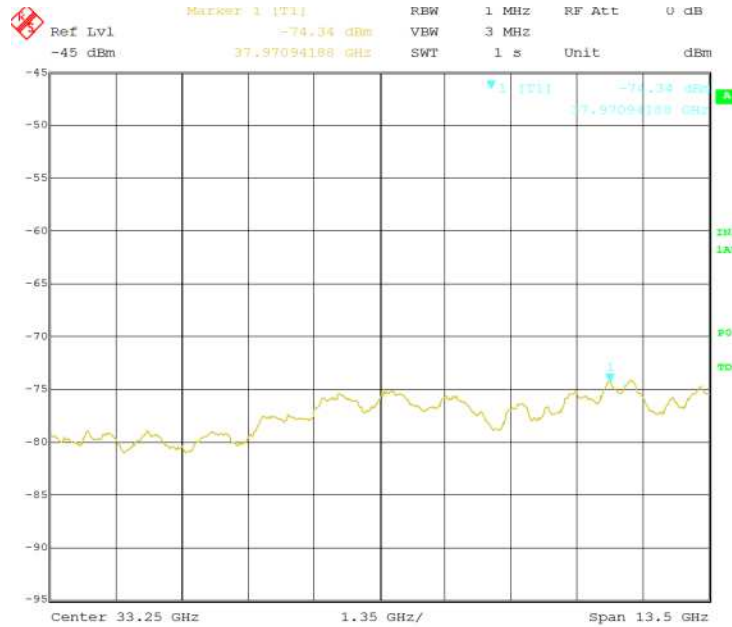


Figure 155: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Average

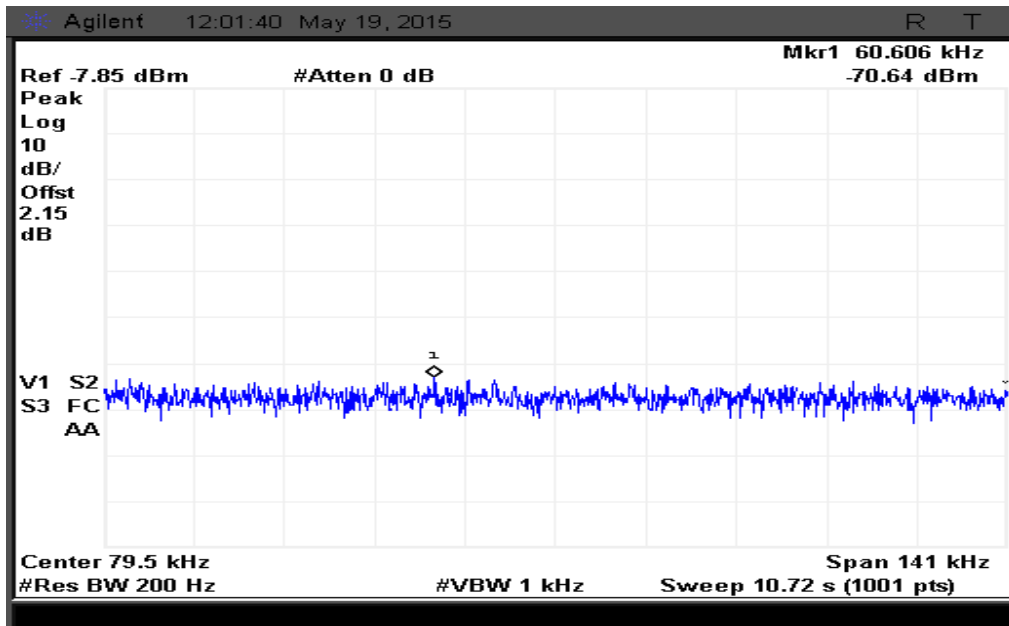


Figure 156: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

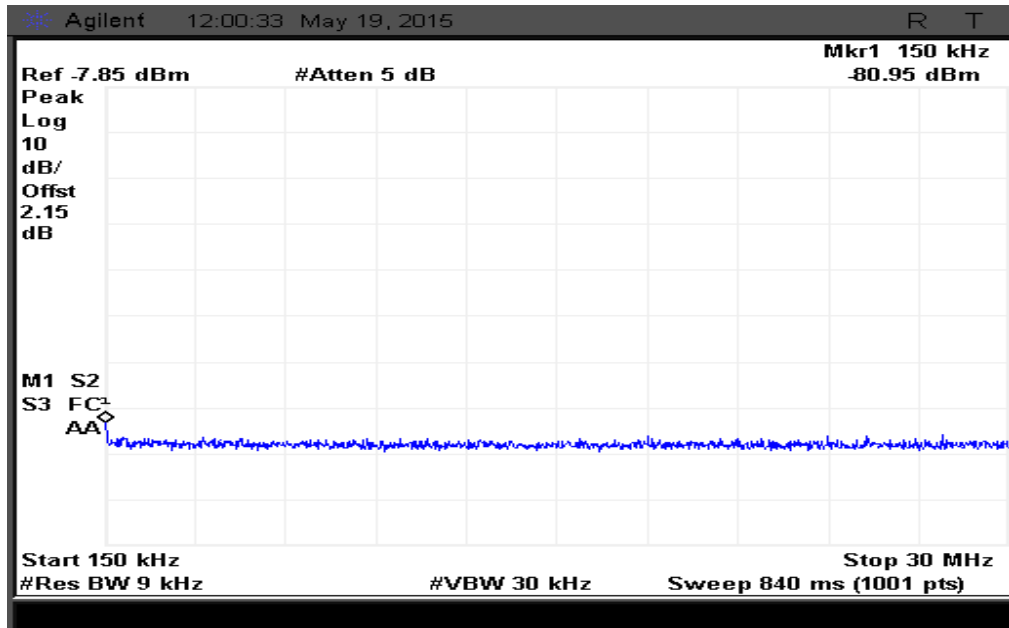


Figure 157: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

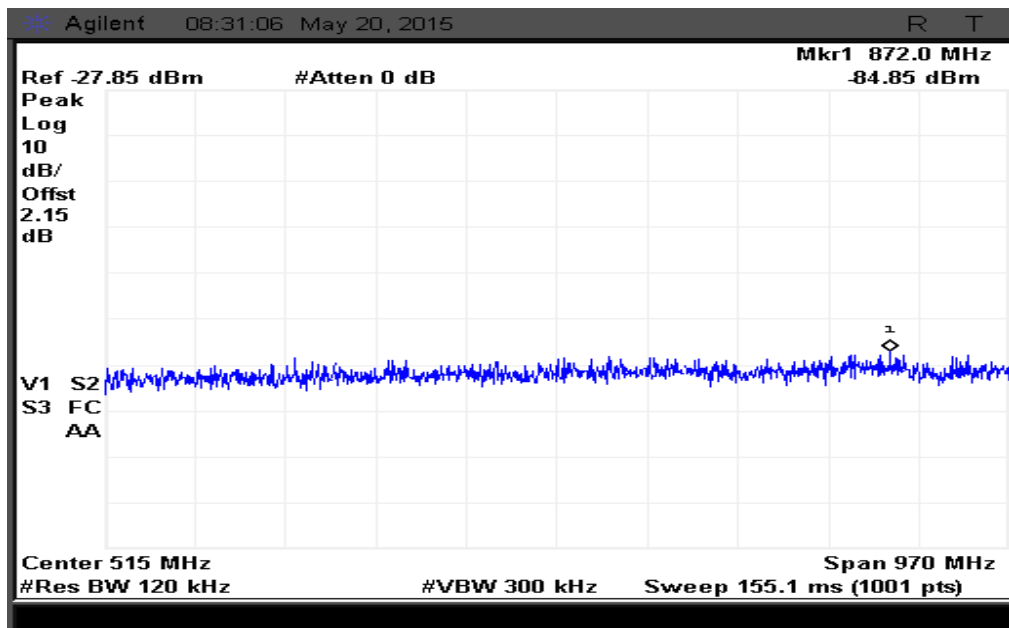


Figure 158: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

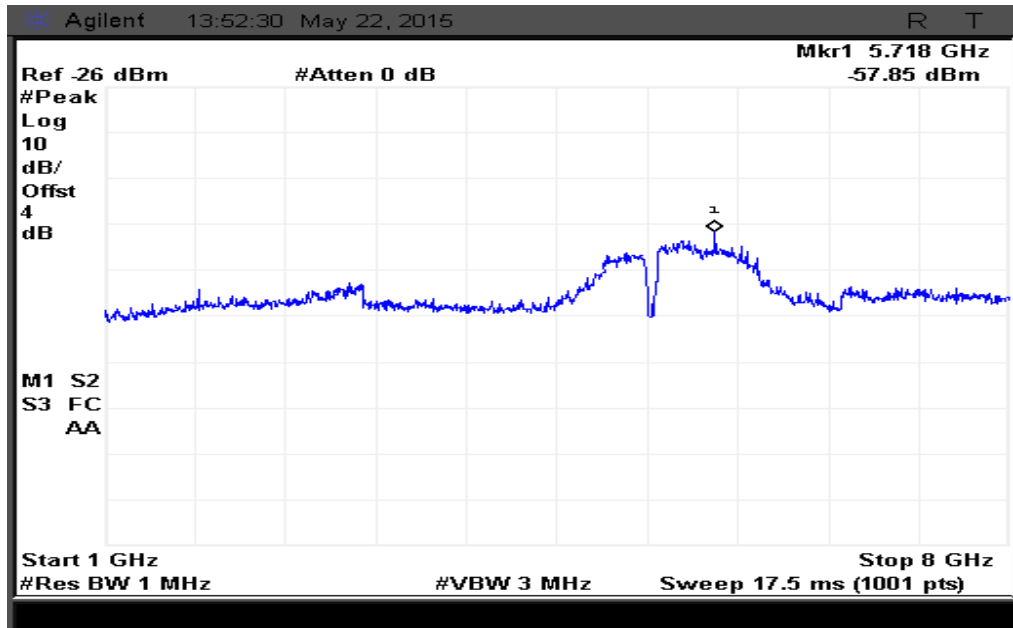


Figure 159: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

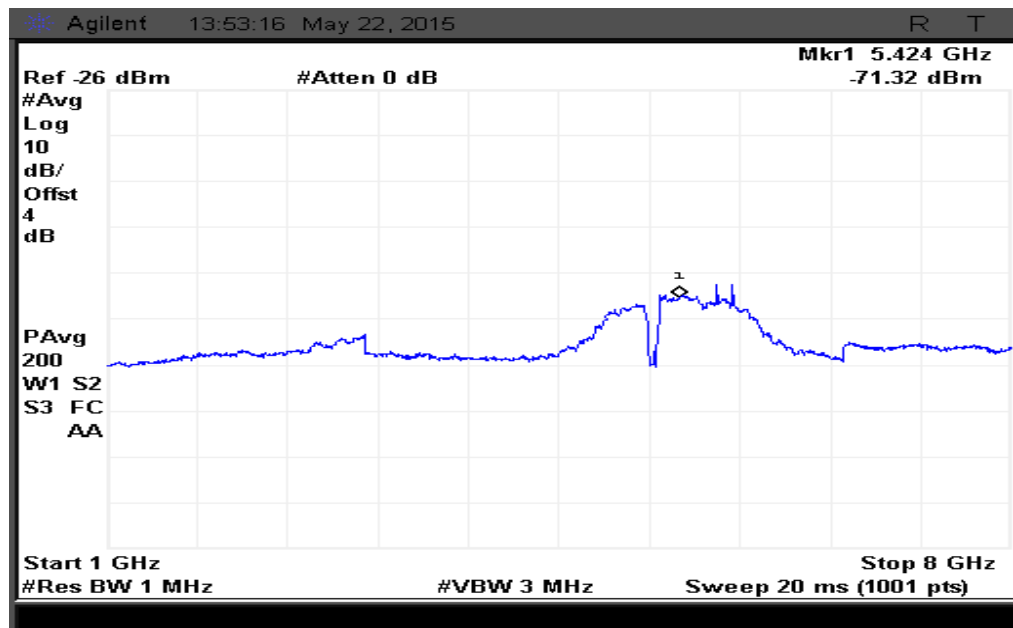


Figure 160: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

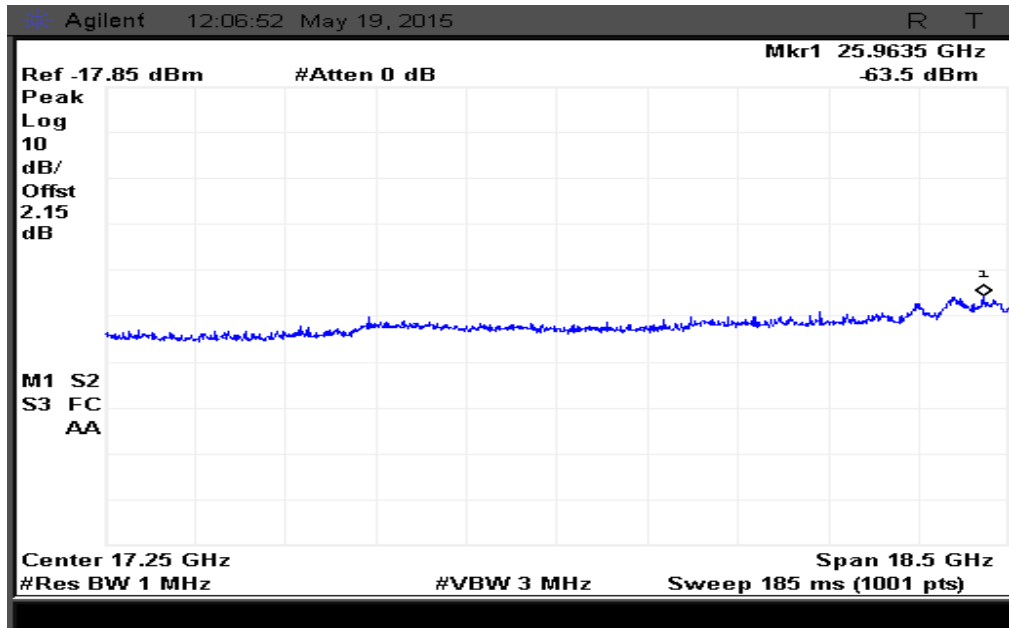


Figure 161: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

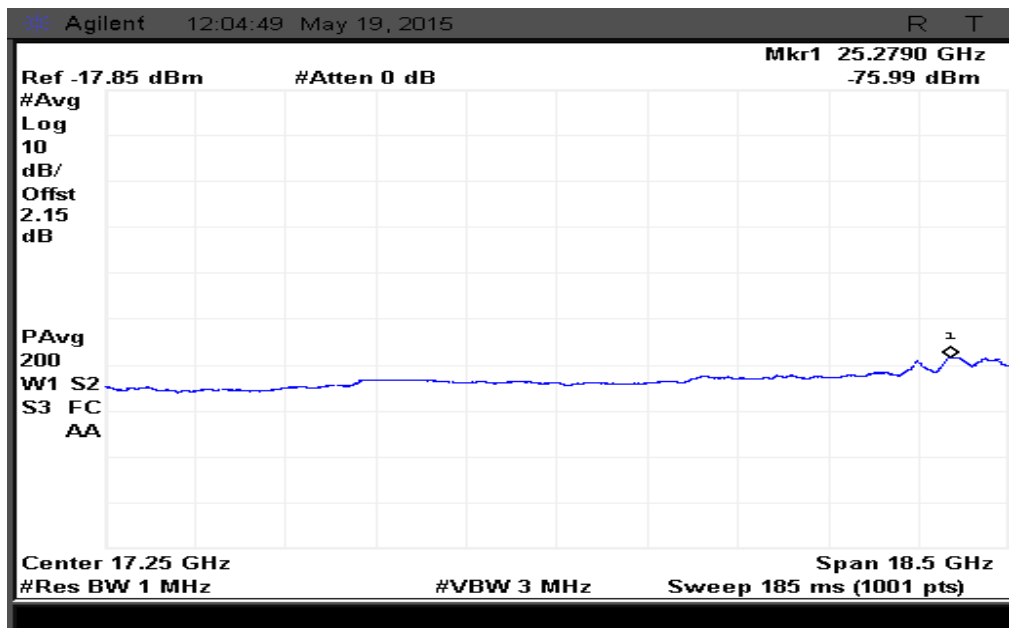


Figure 162: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

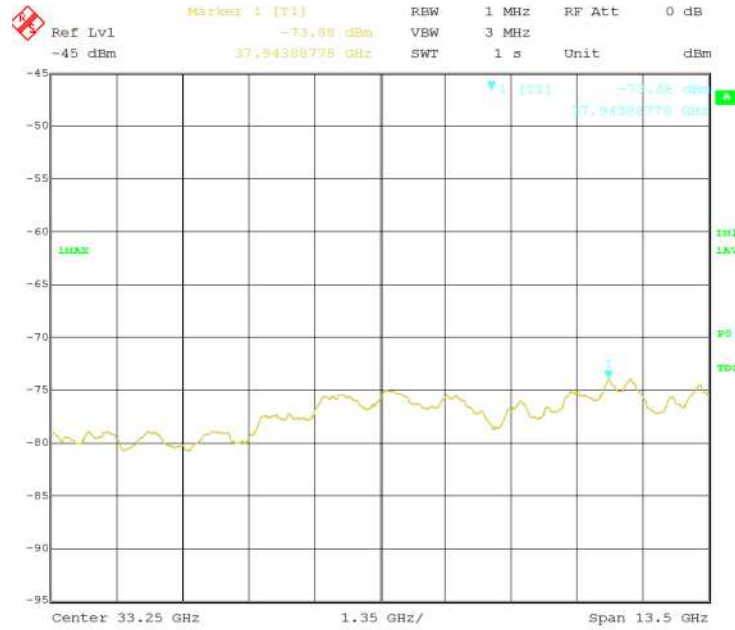


Figure 163: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

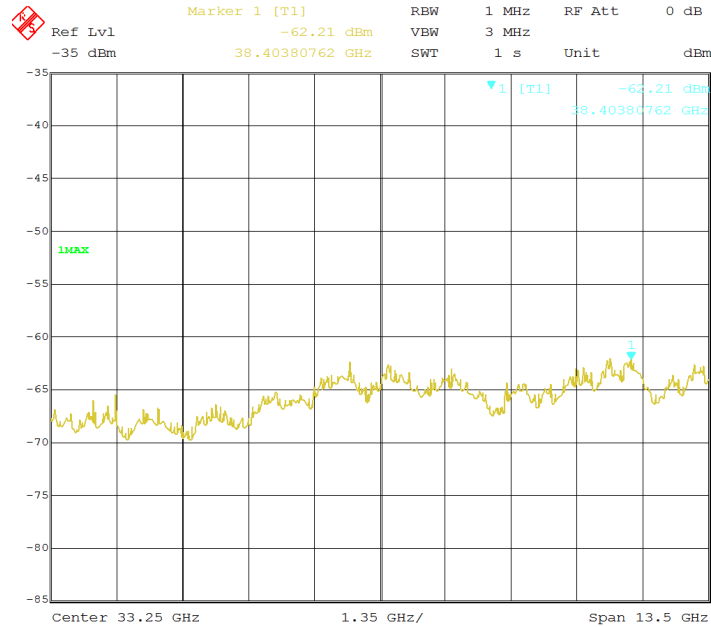


Figure 164: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.6.4 5MHz MODULATION BW - LOW CHANNEL_5155MHz

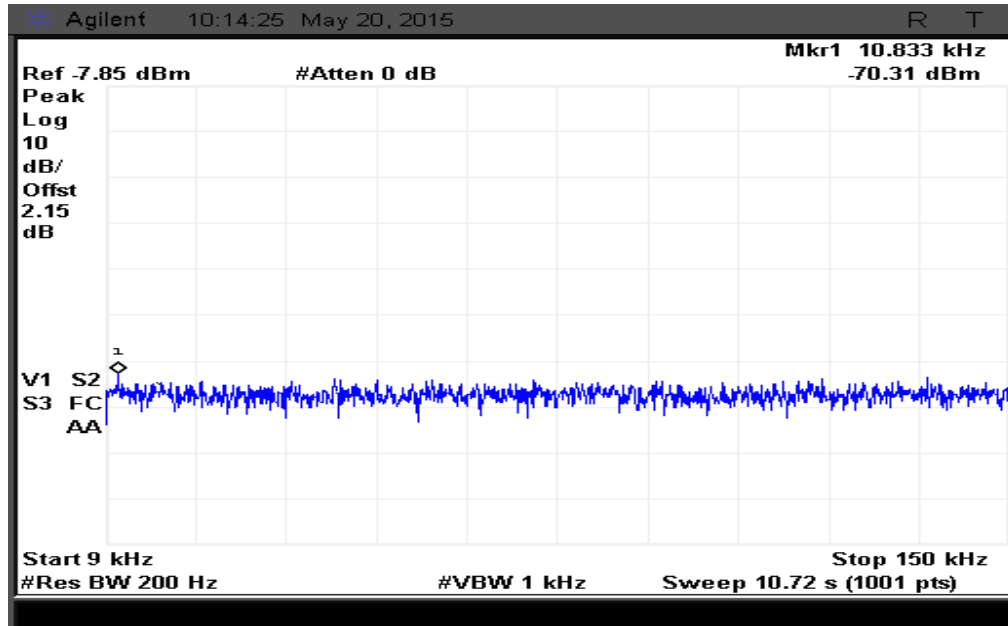


Figure 165: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

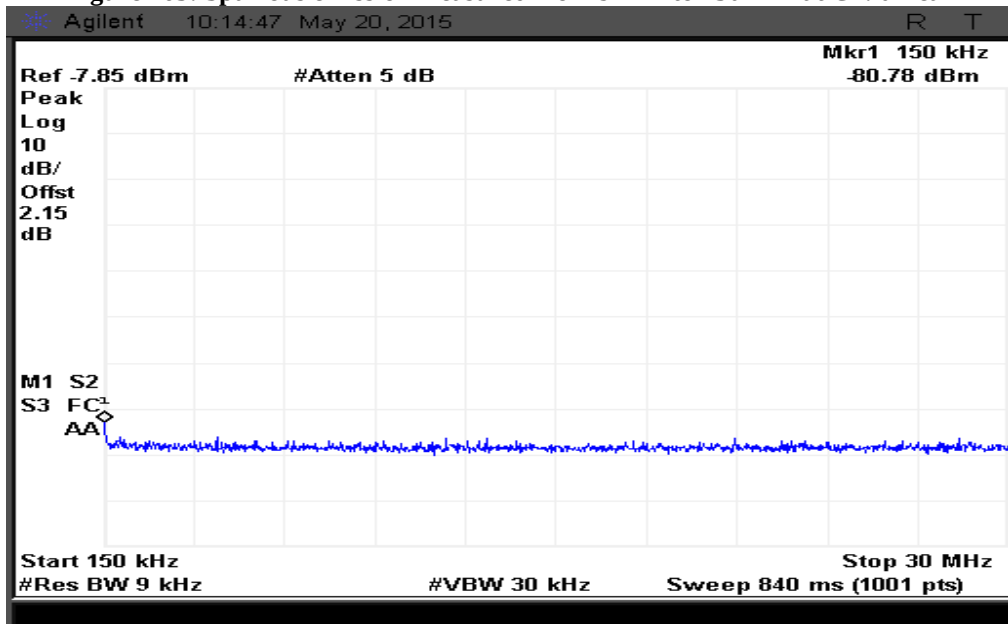


Figure 166: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

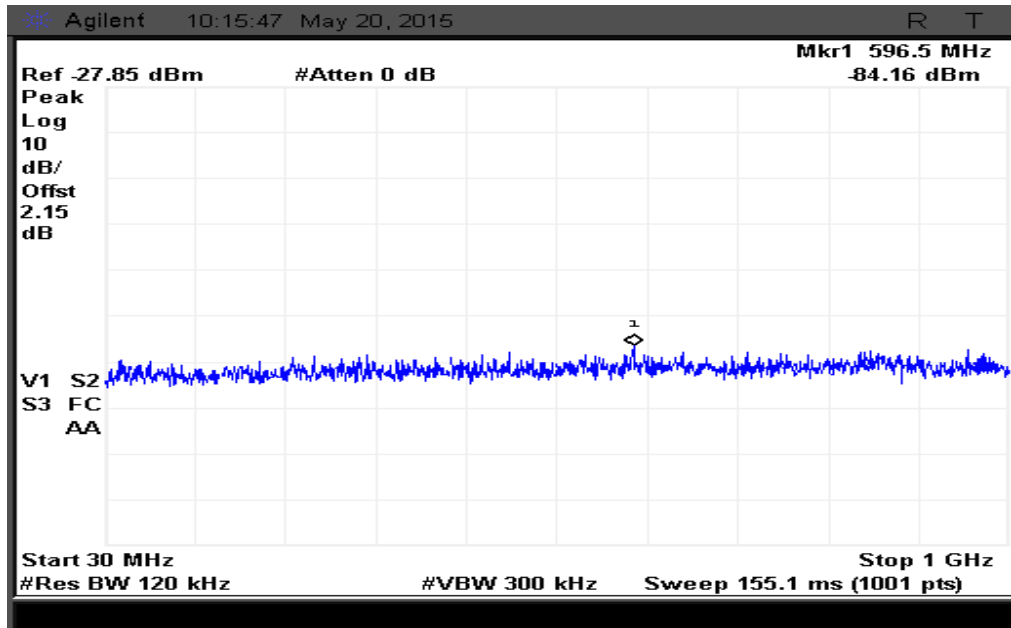


Figure 167: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

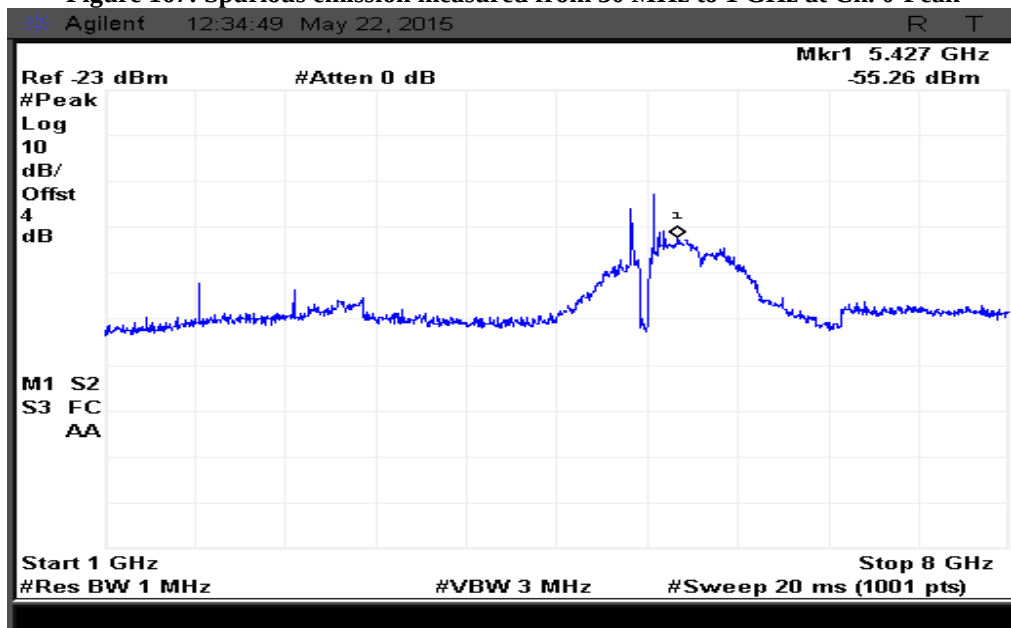


Figure 168: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

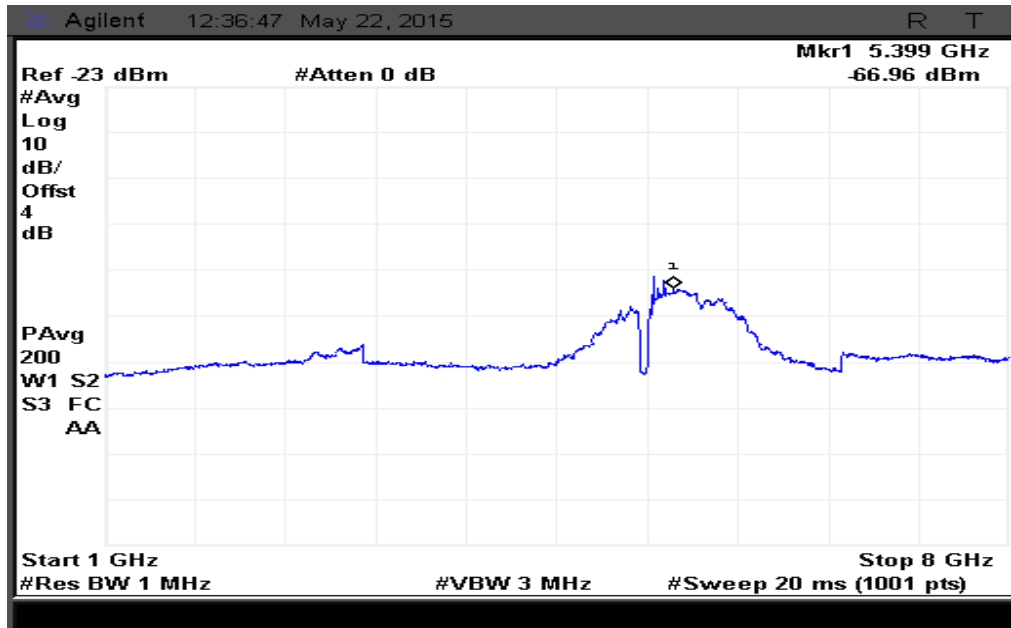


Figure 169: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

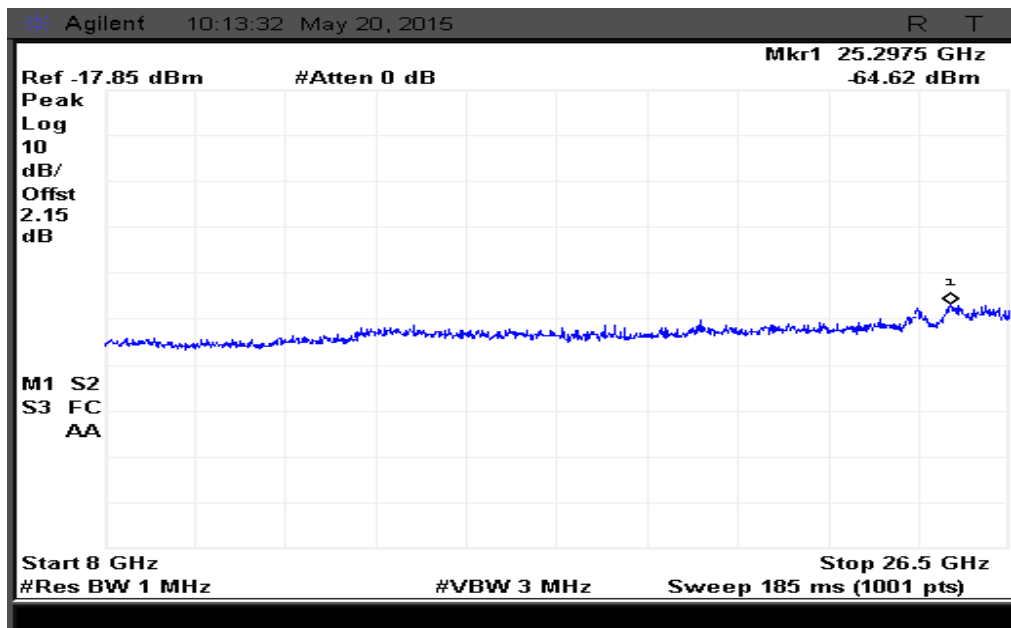


Figure 170: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

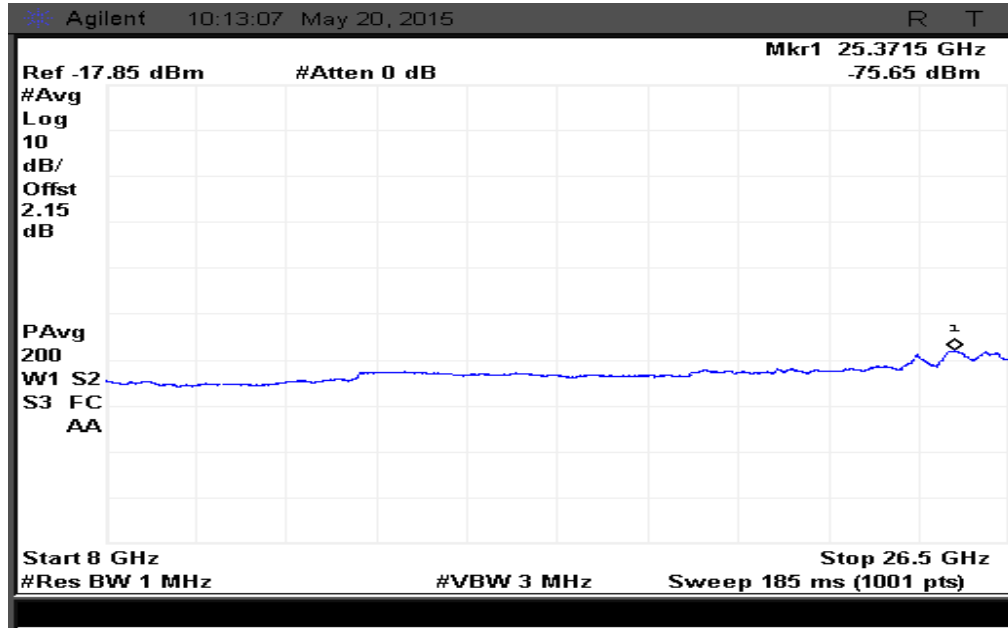


Figure 171: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

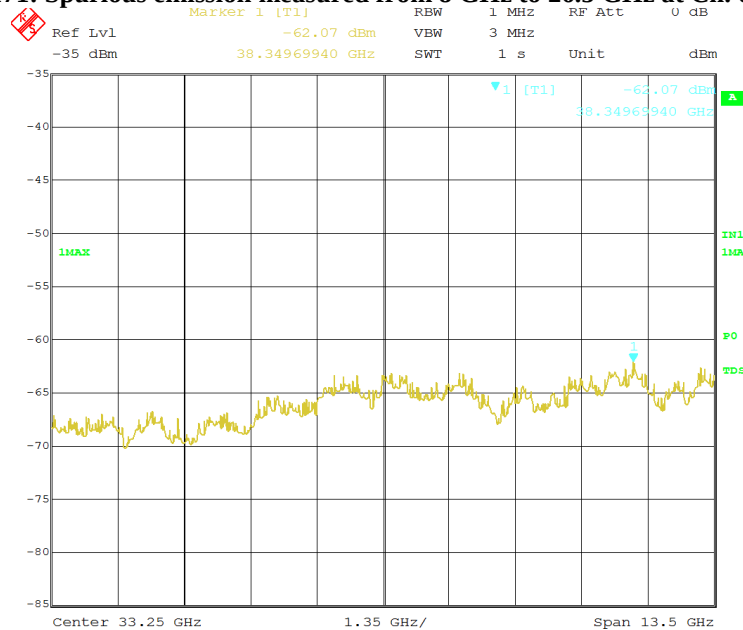


Figure 172: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Peak

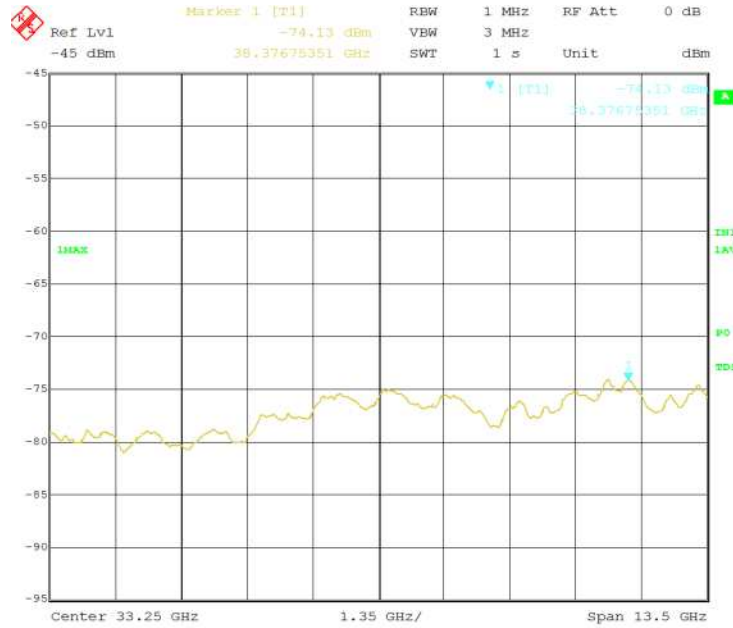


Figure 173: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

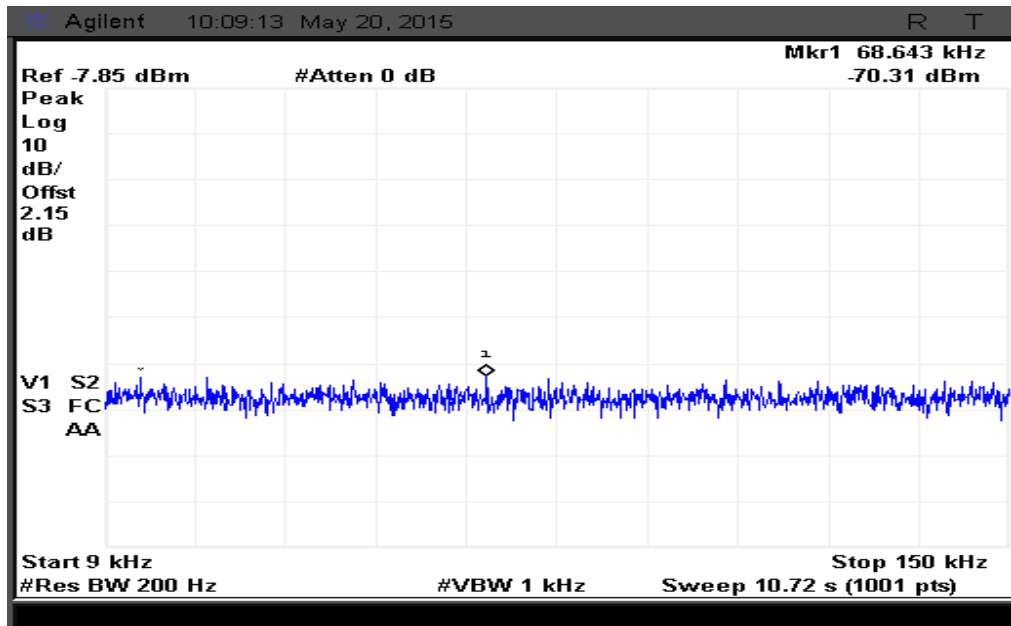


Figure 174: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

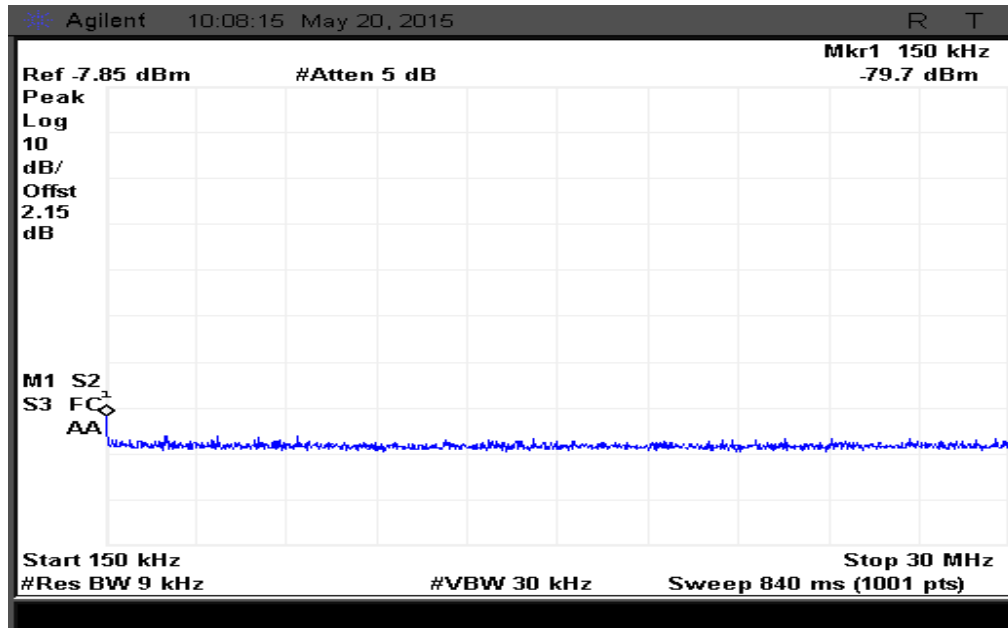


Figure 175: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

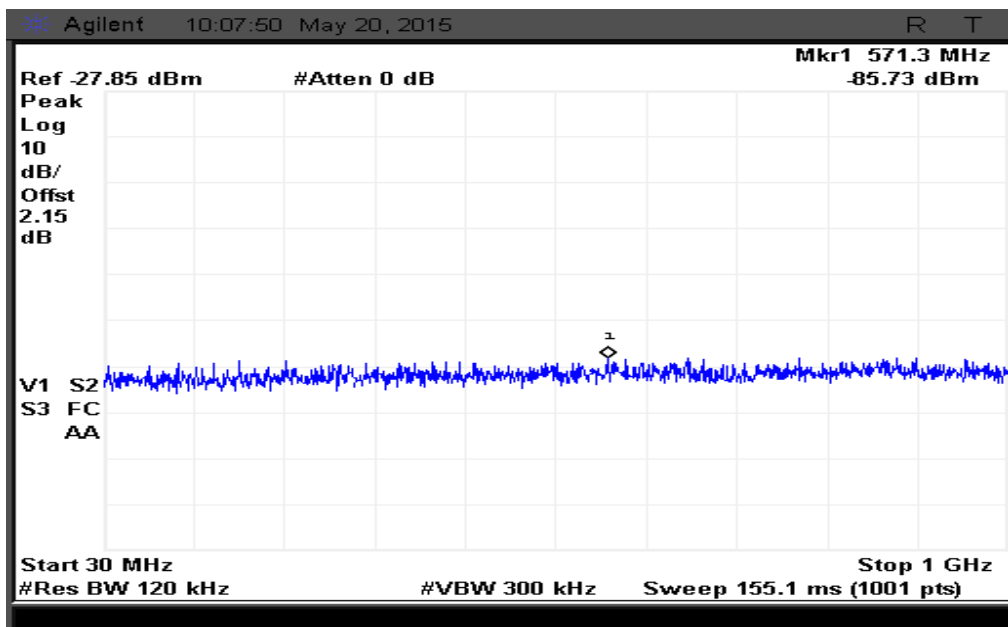


Figure 176: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

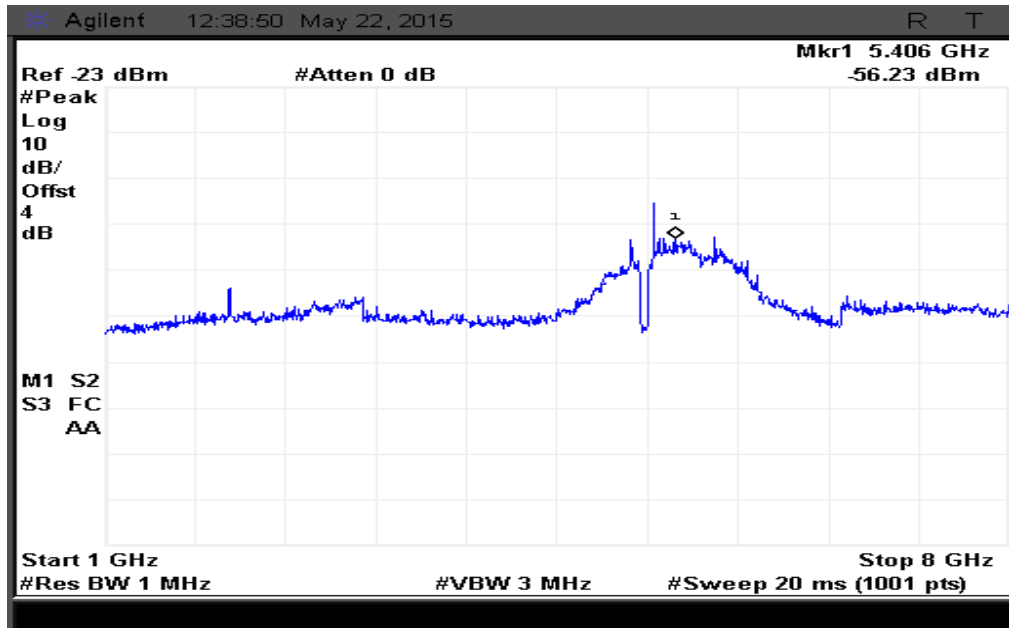


Figure 177: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

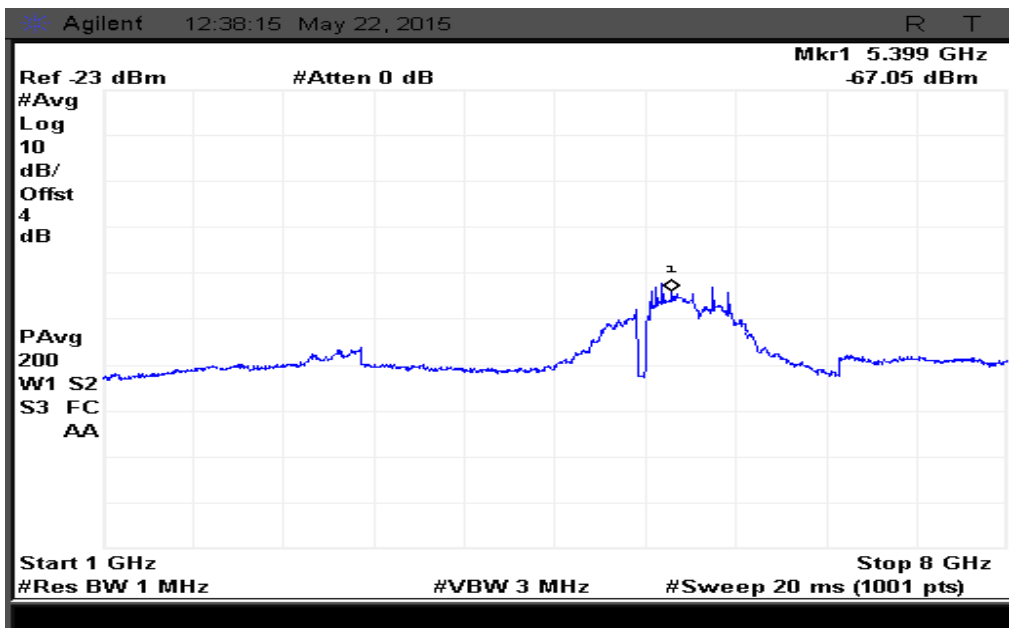


Figure 178: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

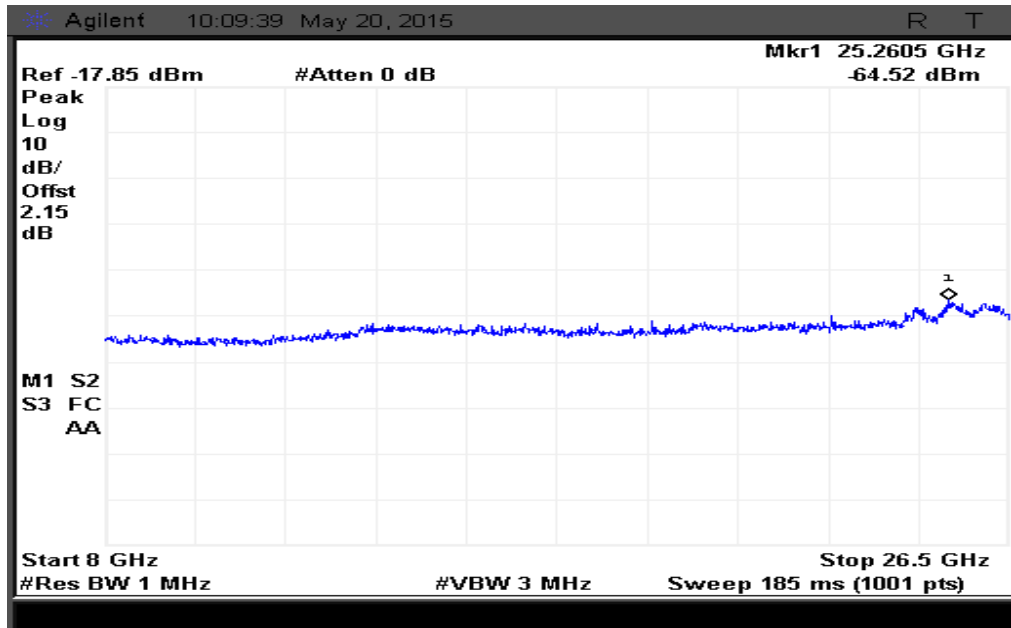


Figure 179: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

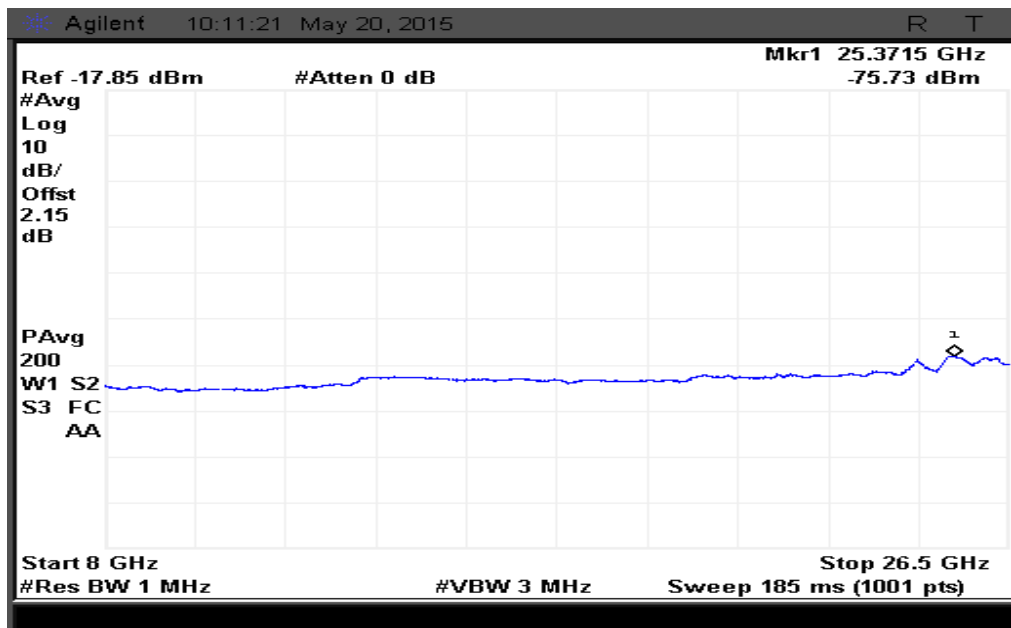


Figure 180: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

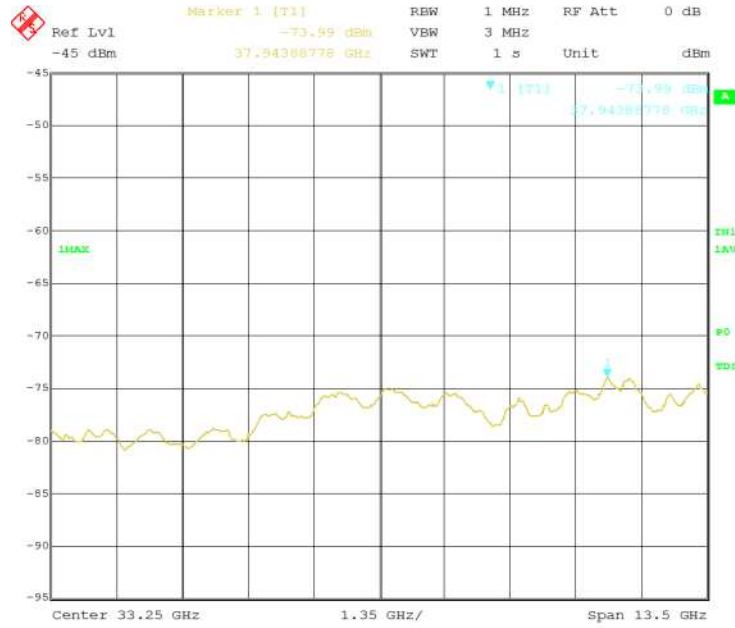


Figure 181: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

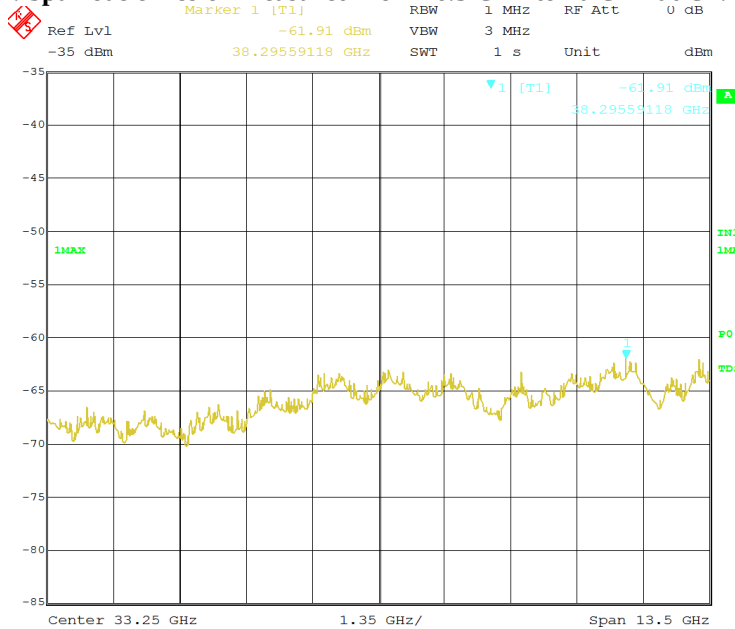


Figure 182: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.6.5 5MHz MODULATION BW - MID CHANNEL_5200MHZ

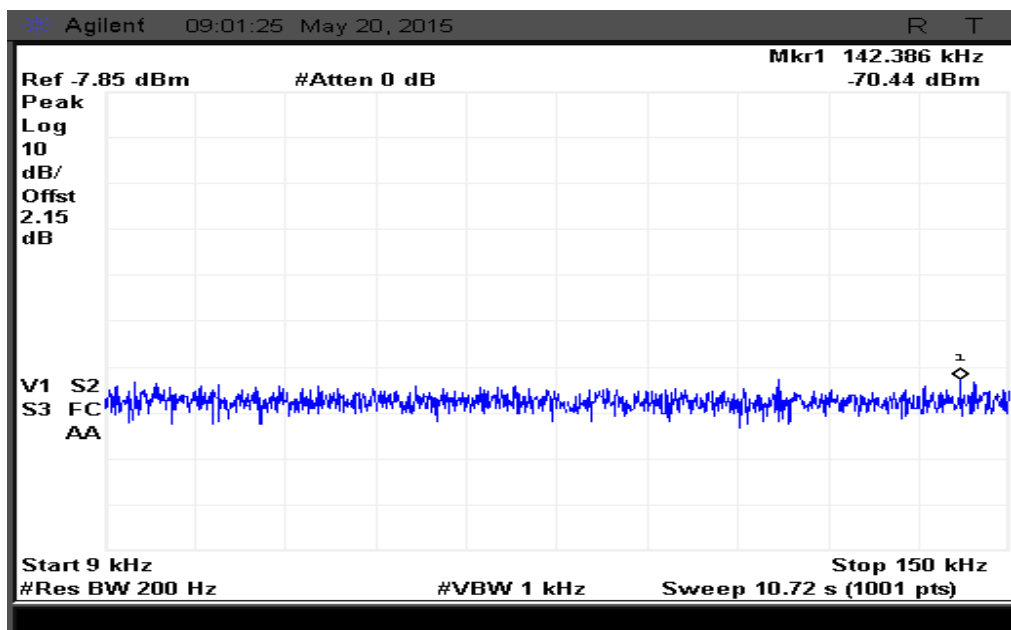


Figure 183: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

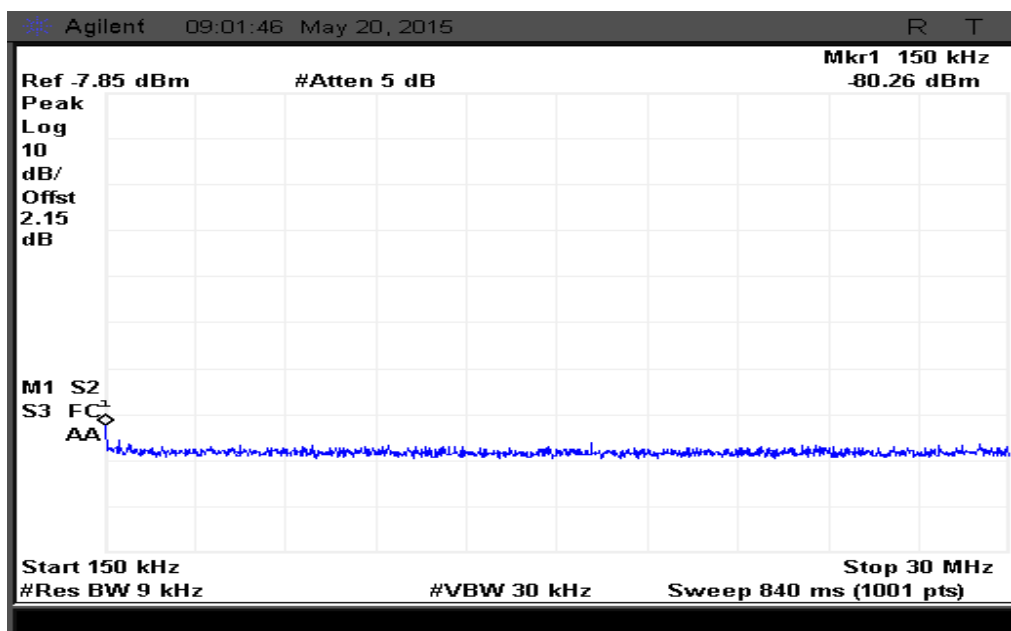


Figure 184: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

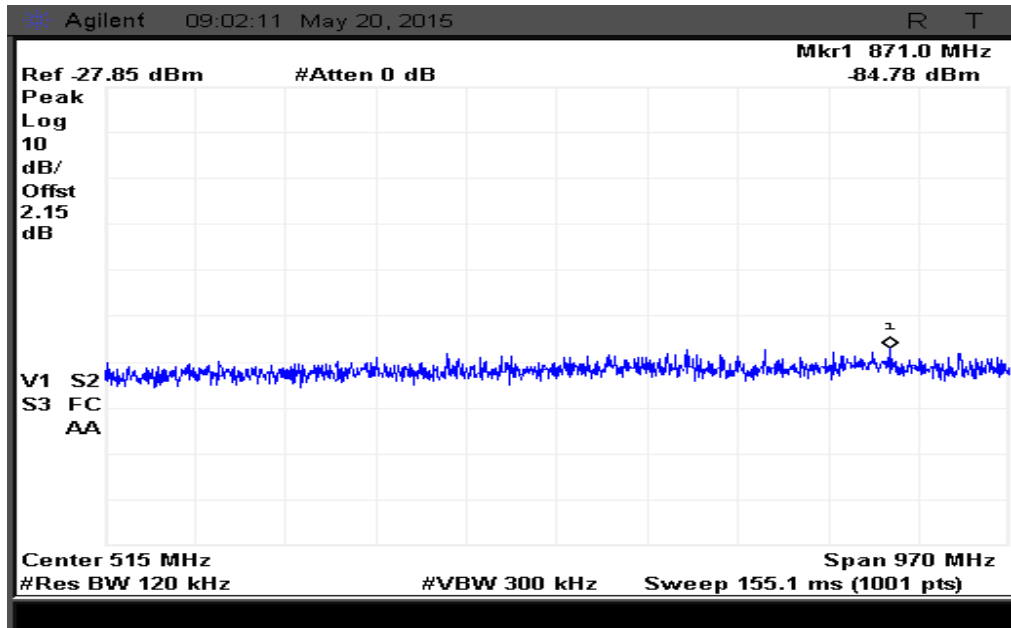


Figure 185: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

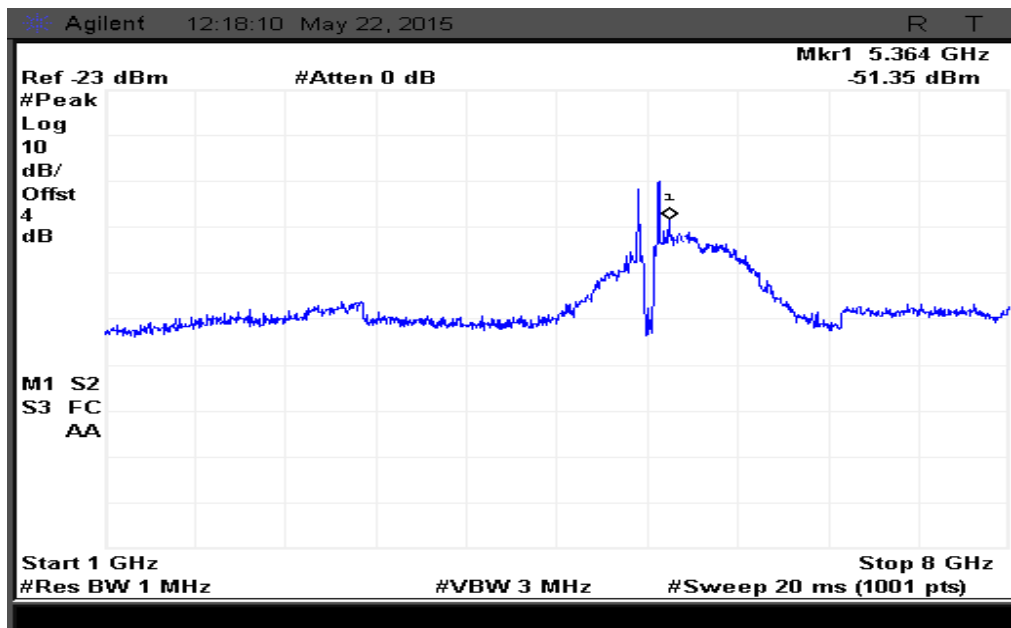


Figure 186: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

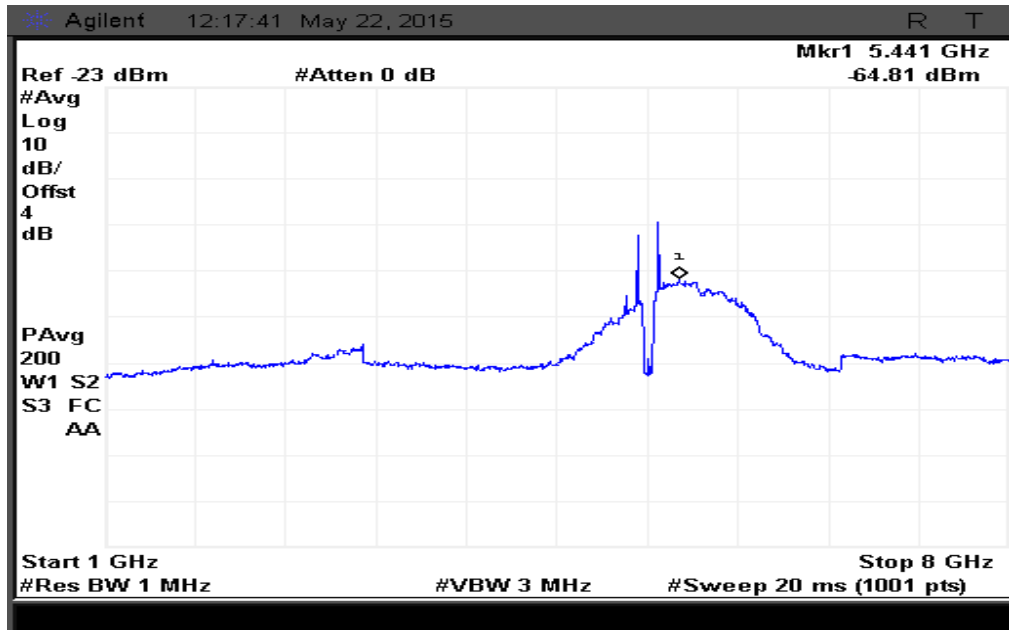


Figure 187: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

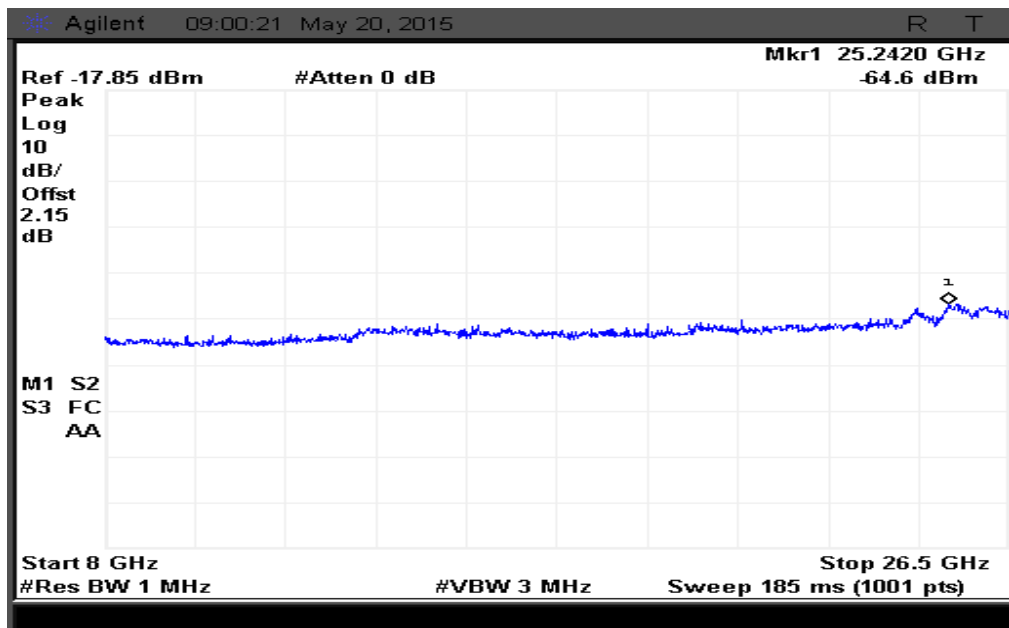


Figure 188: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

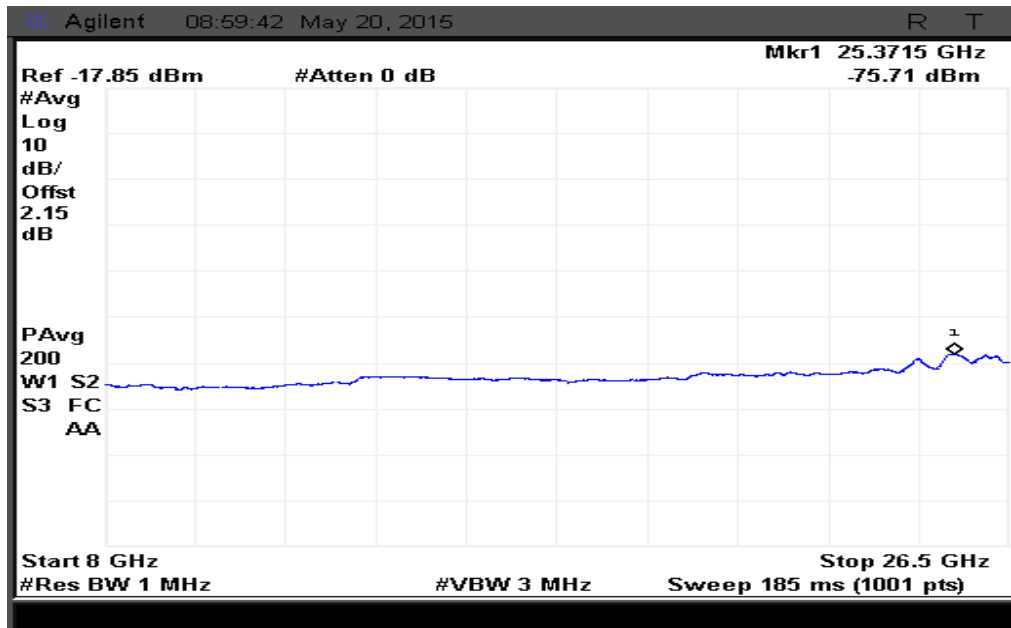


Figure 189: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

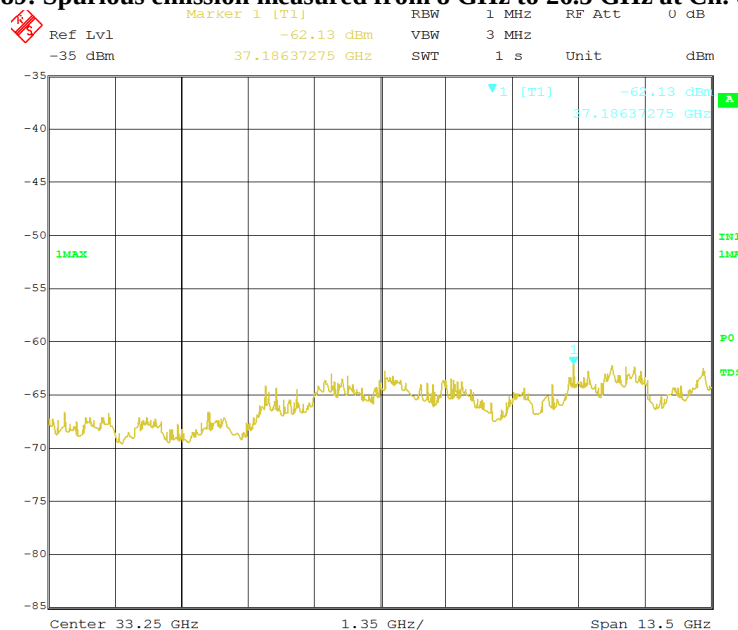


Figure 190: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

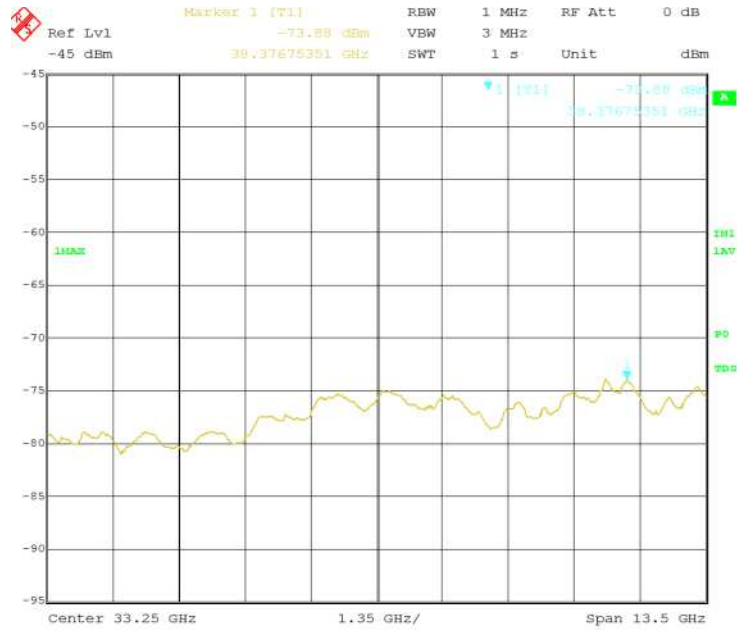


Figure 191: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

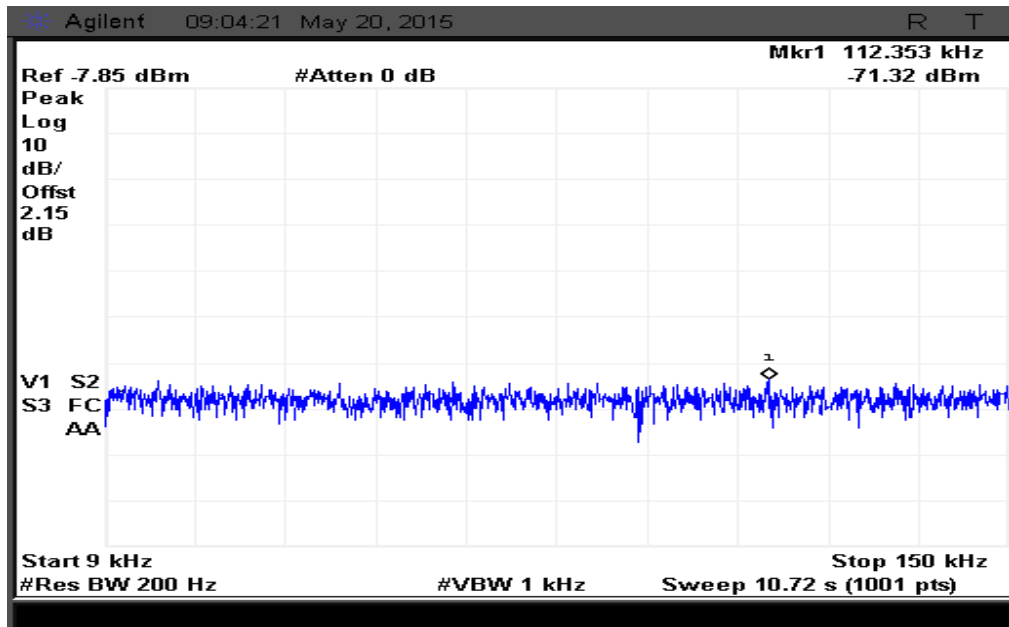


Figure 192: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

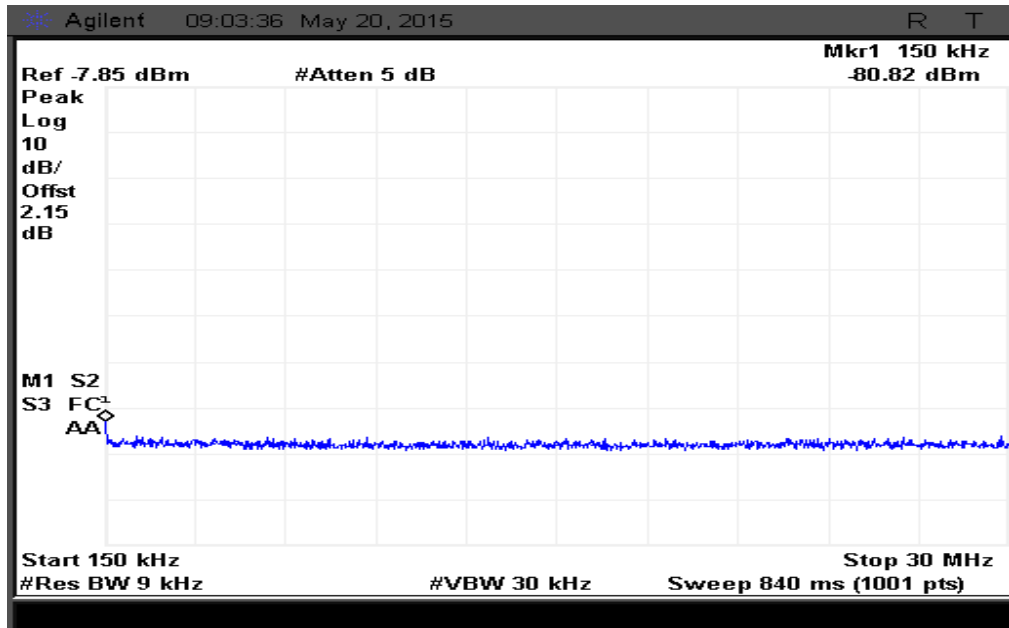


Figure 193: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

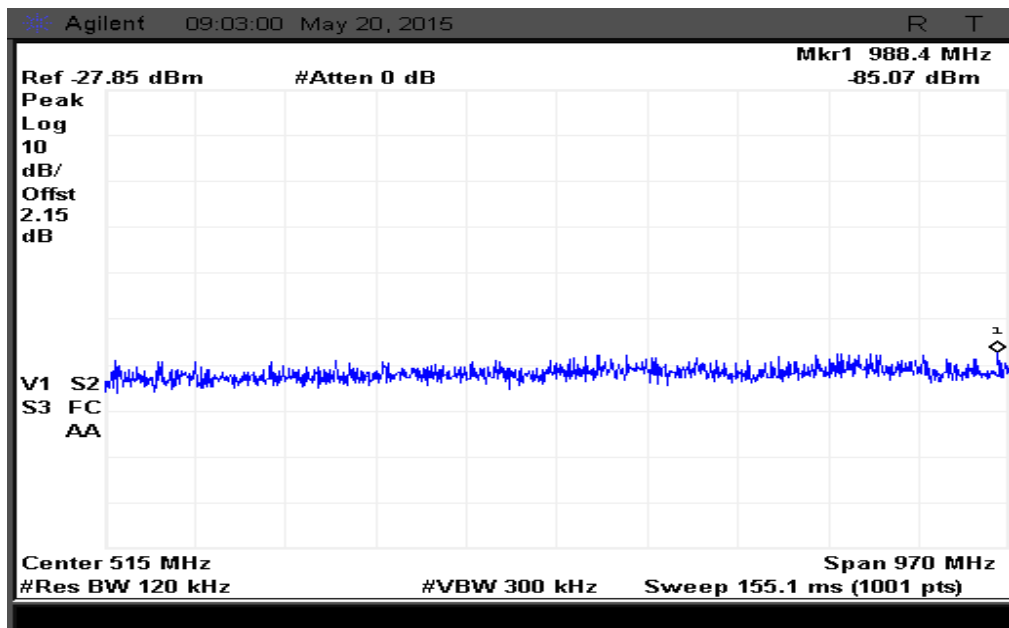


Figure 194: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

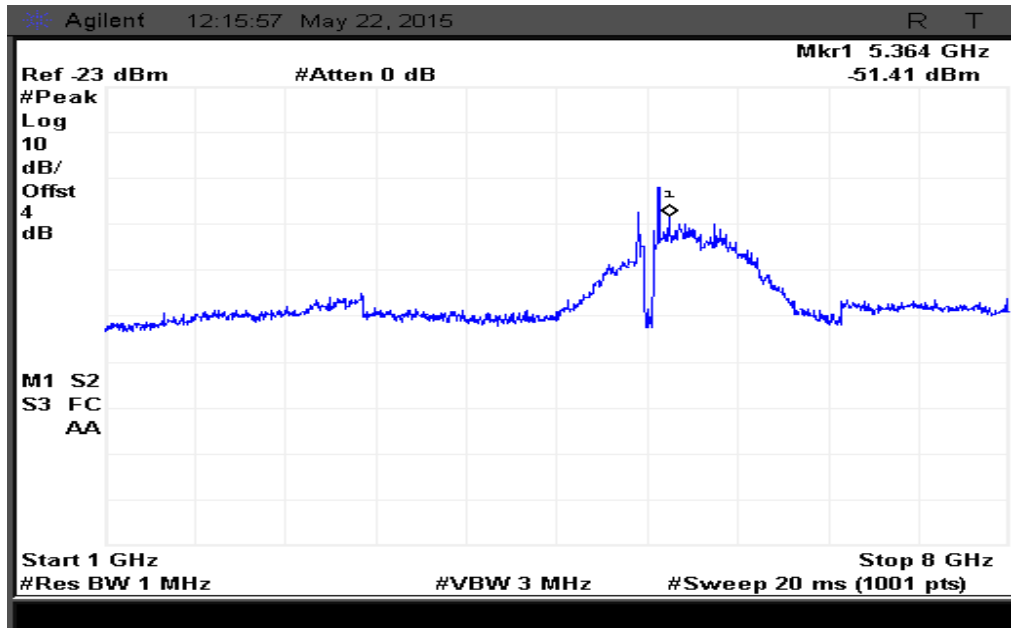


Figure 195: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

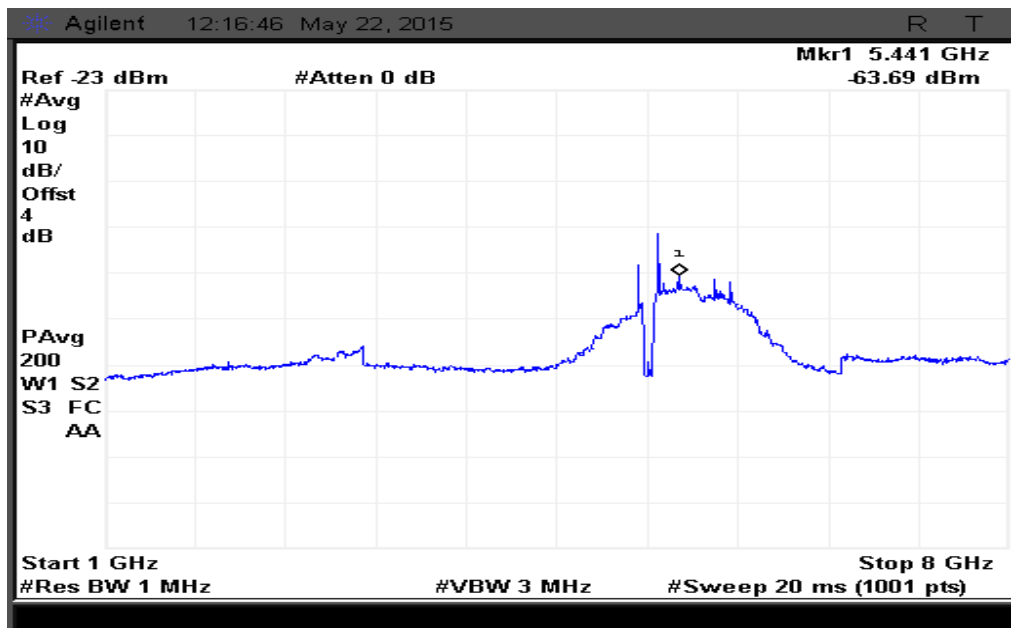


Figure 196: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

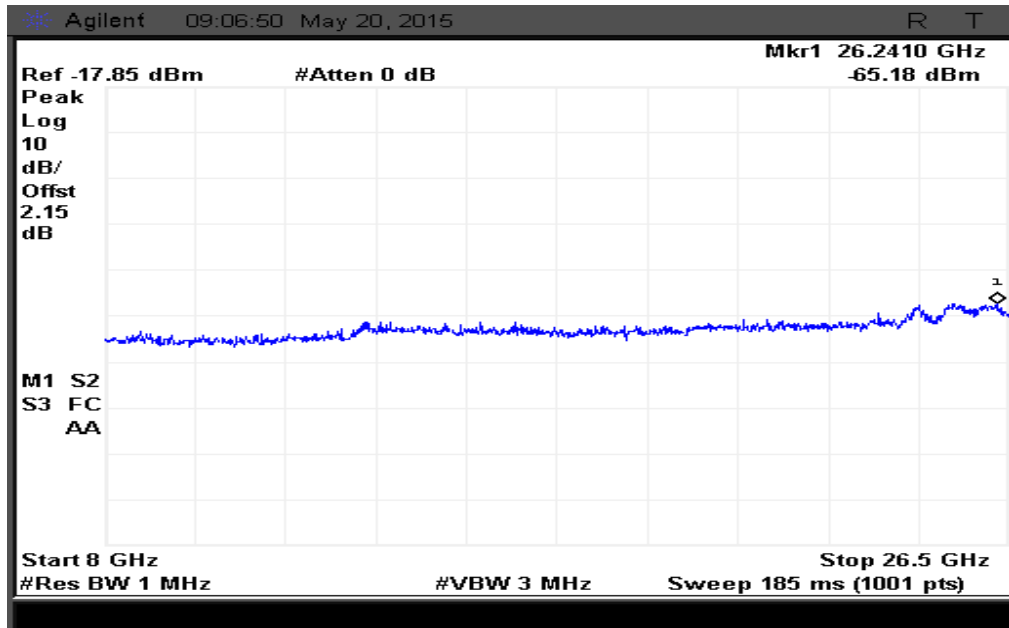


Figure 197: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

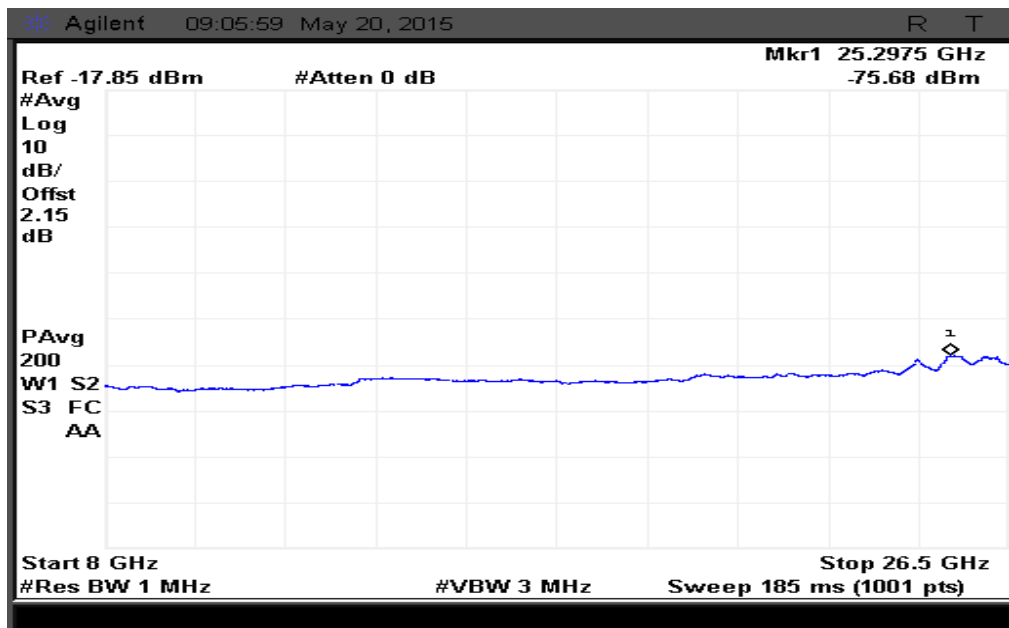


Figure 198: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

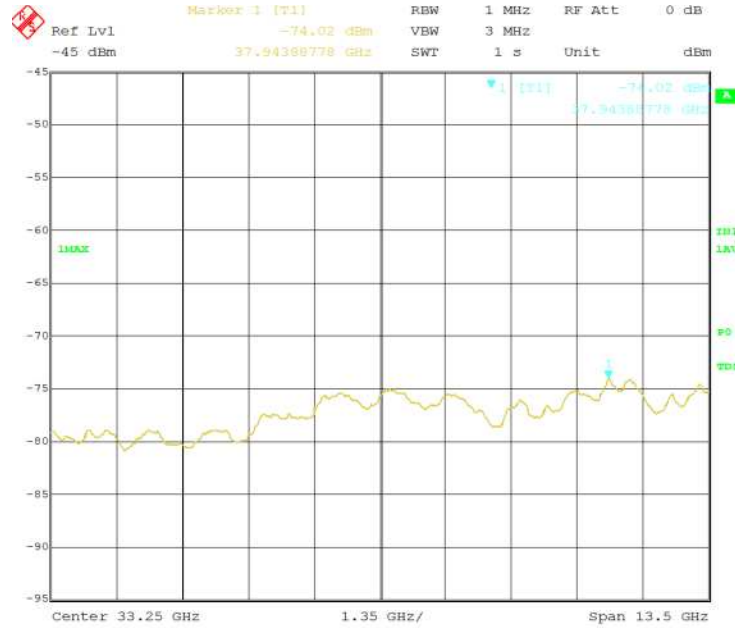


Figure 199: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

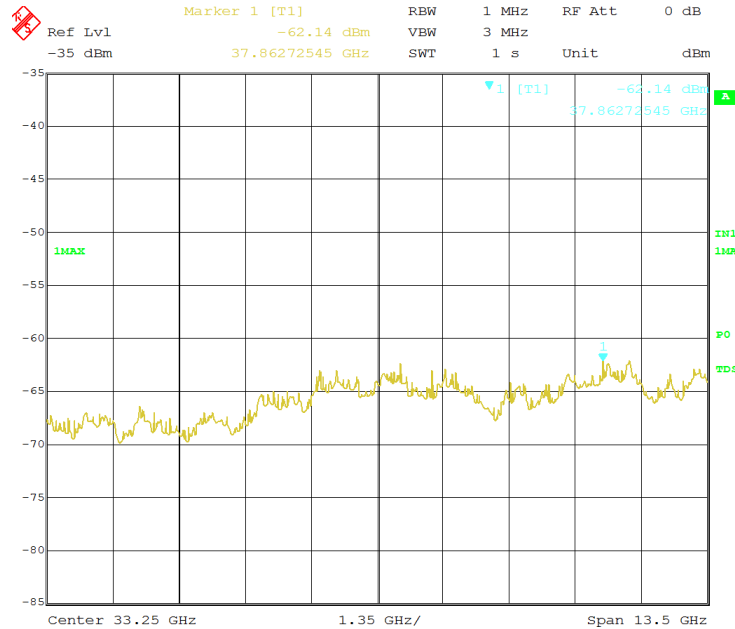


Figure 200: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.6.6 5MHz MODULATION BW - HIGH CHANNEL_5245MHz

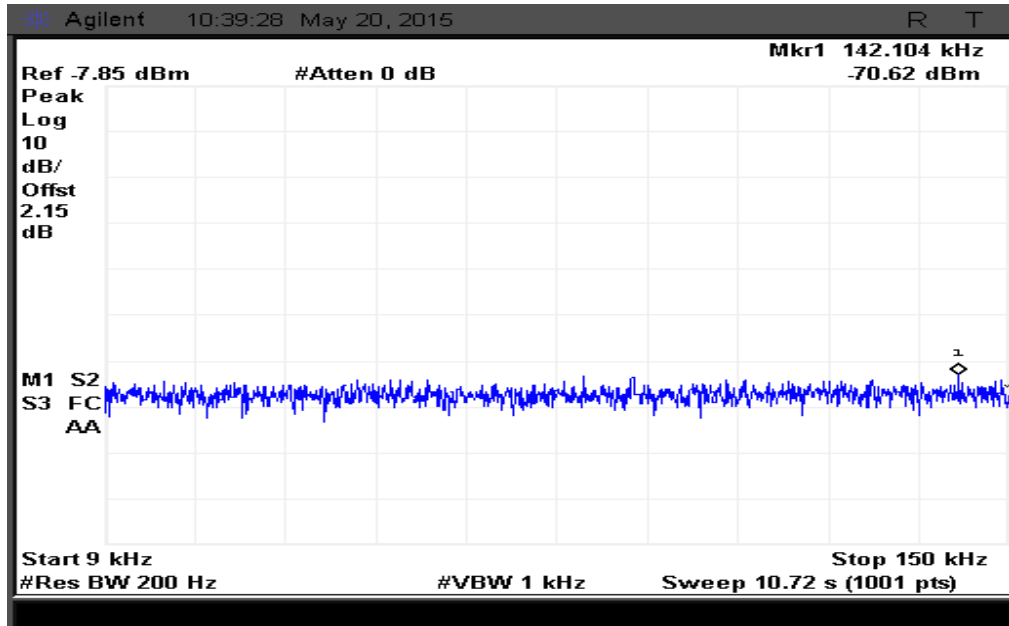


Figure 201: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

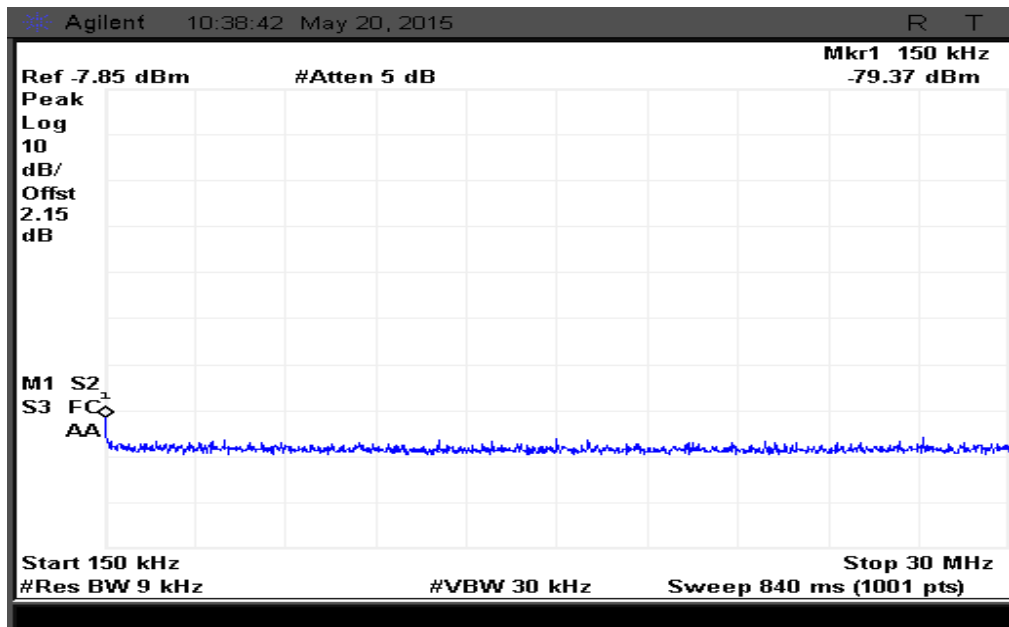


Figure 202: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

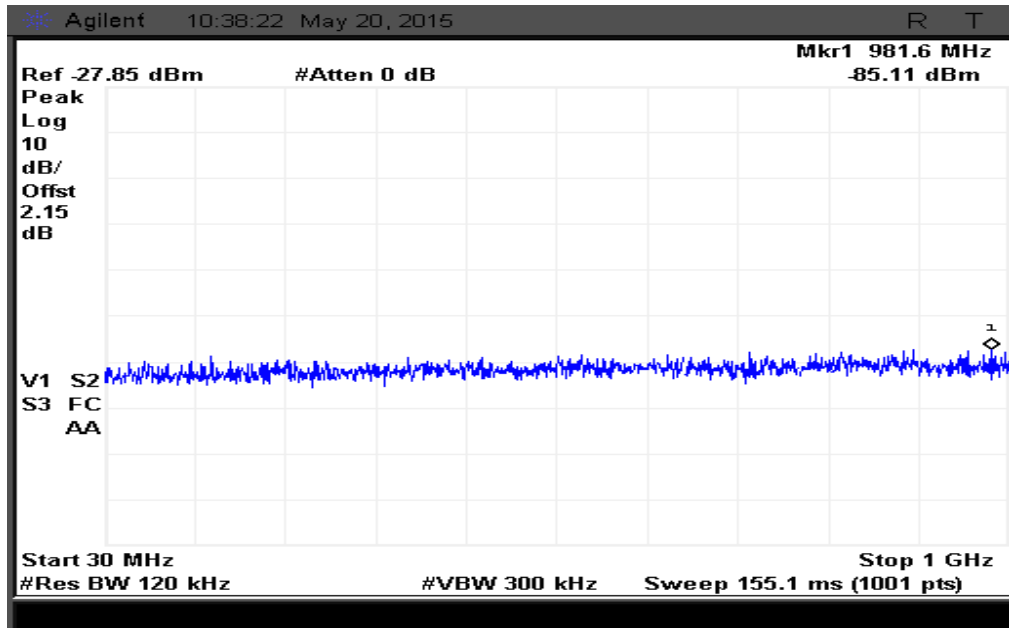


Figure 203: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

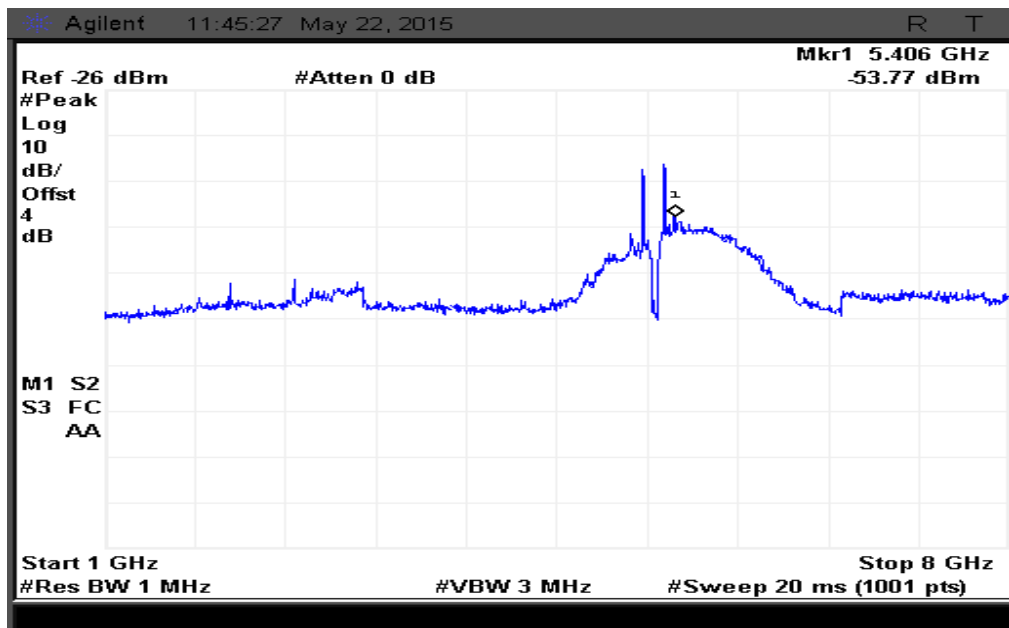


Figure 204: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

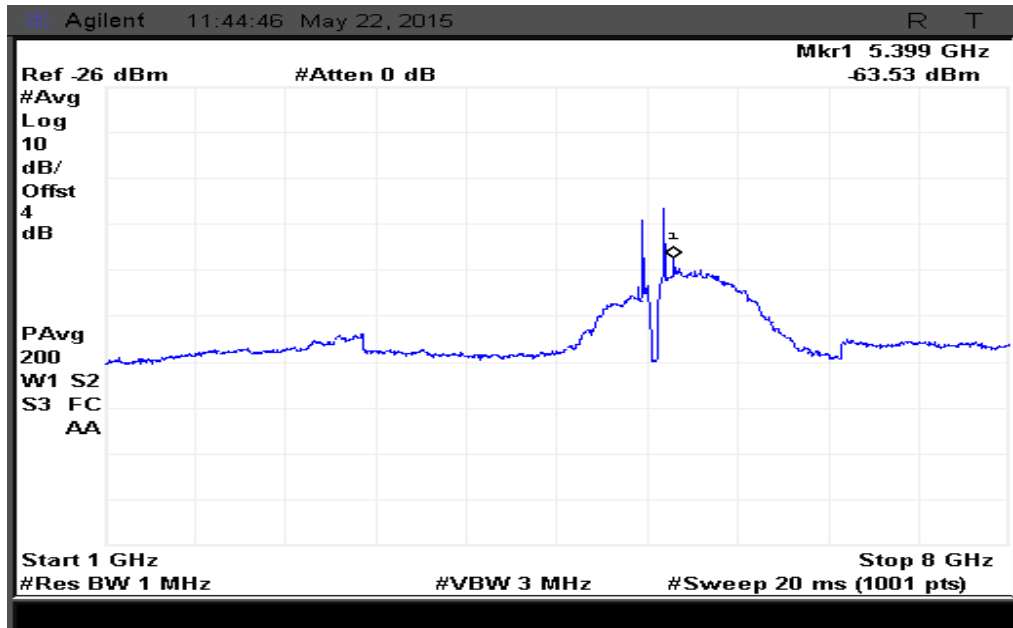


Figure 205: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

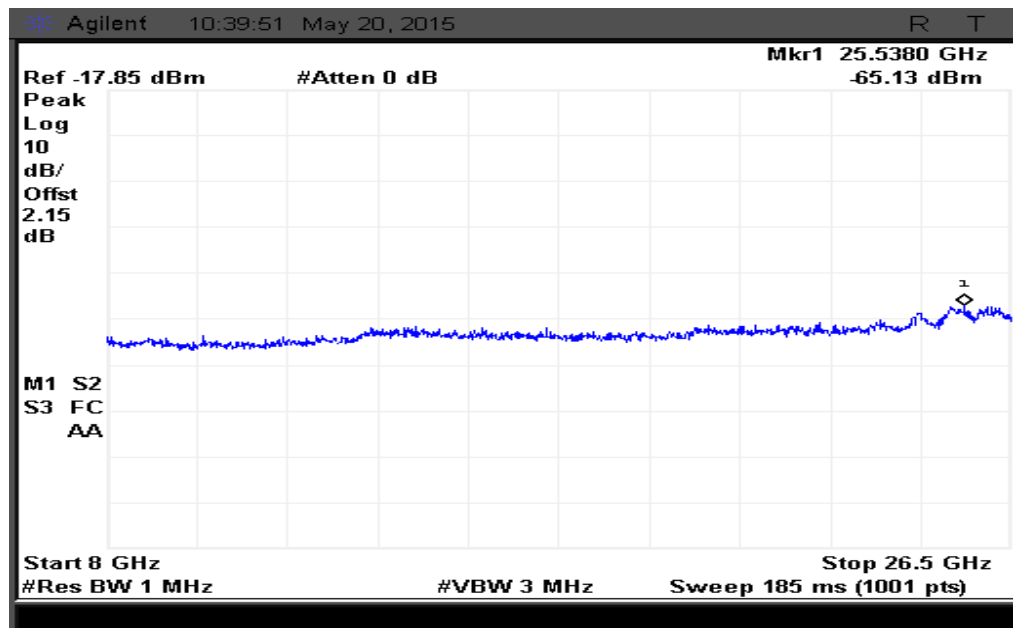


Figure 206: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

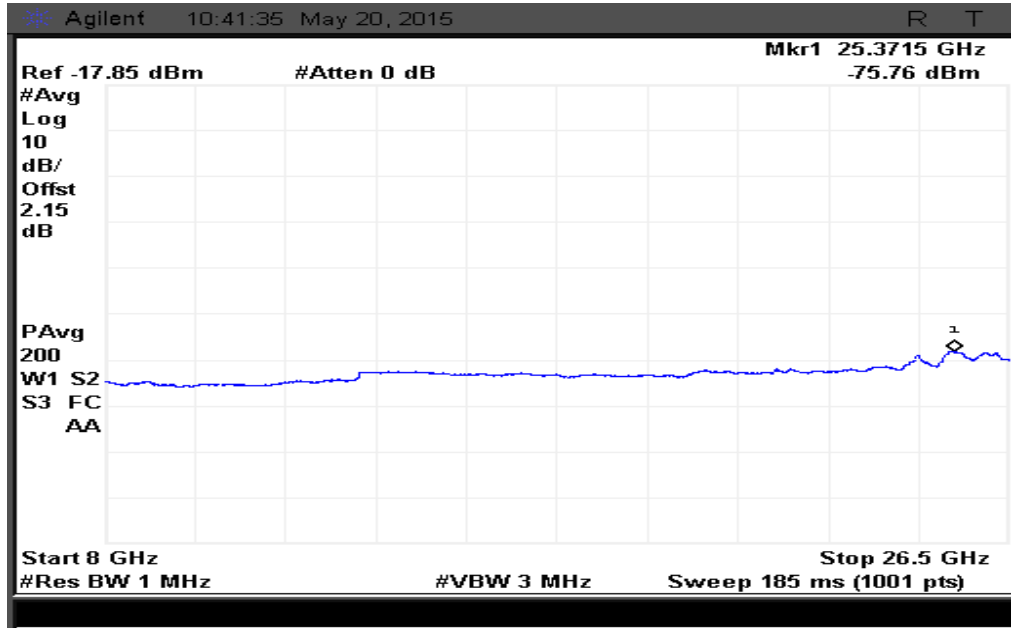


Figure 207: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

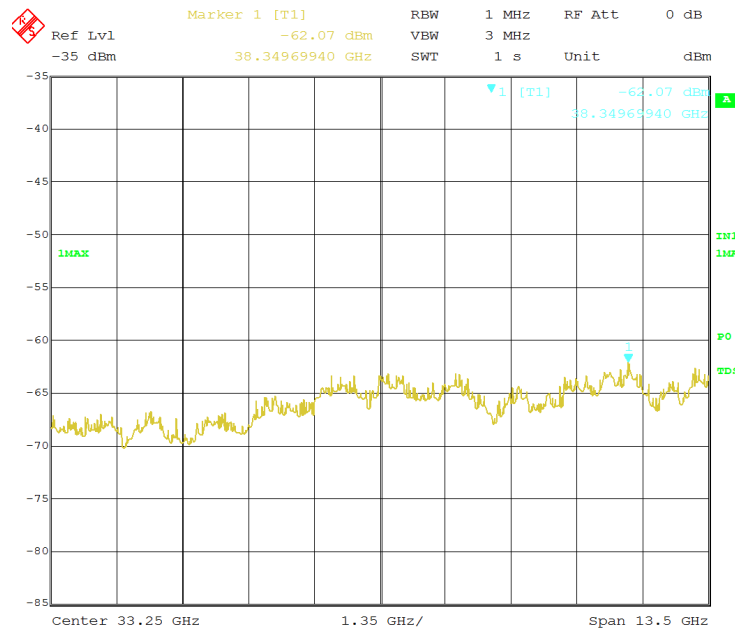


Figure 208: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

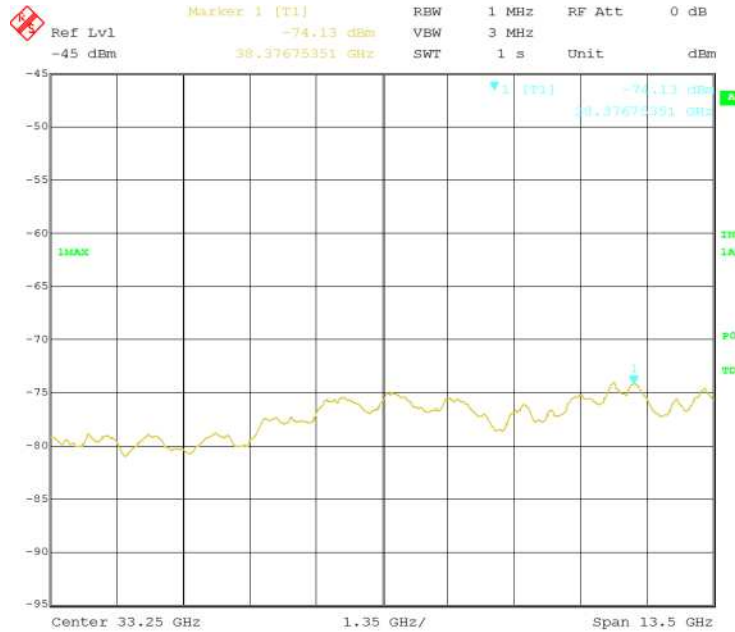


Figure 209: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

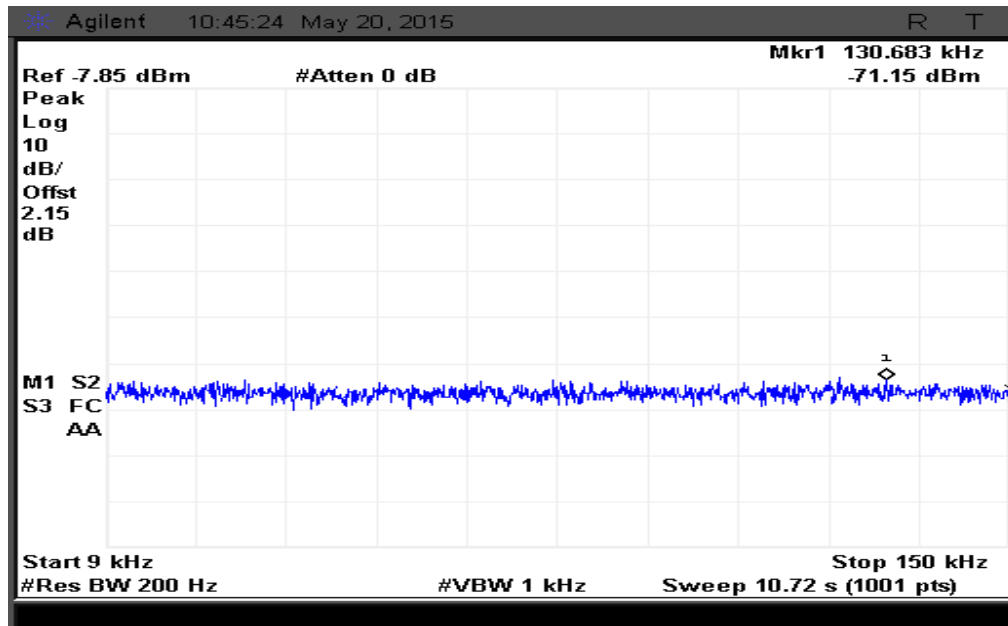


Figure 210: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

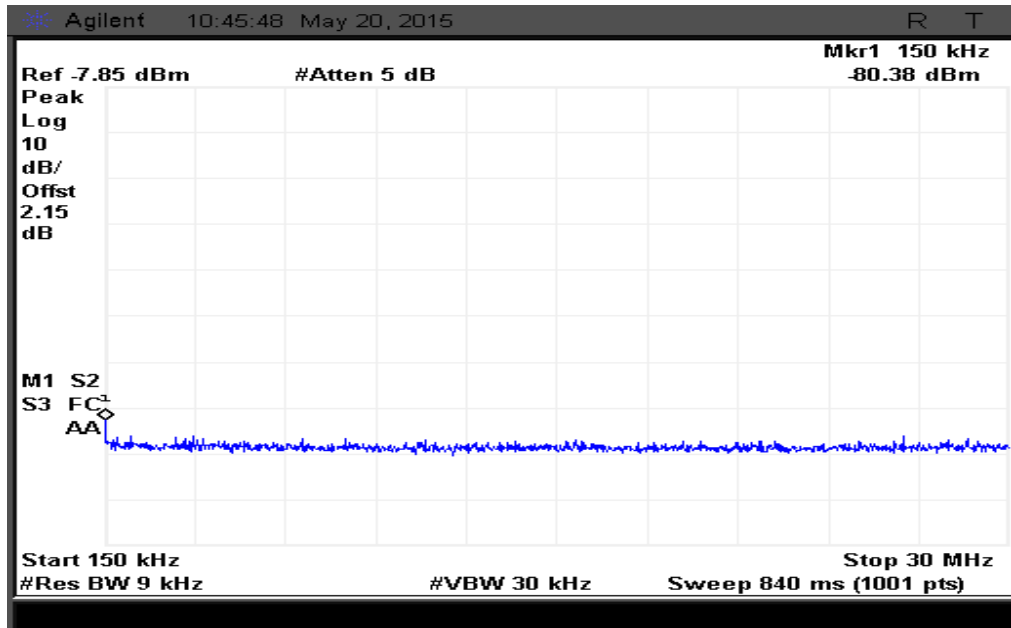


Figure 211: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

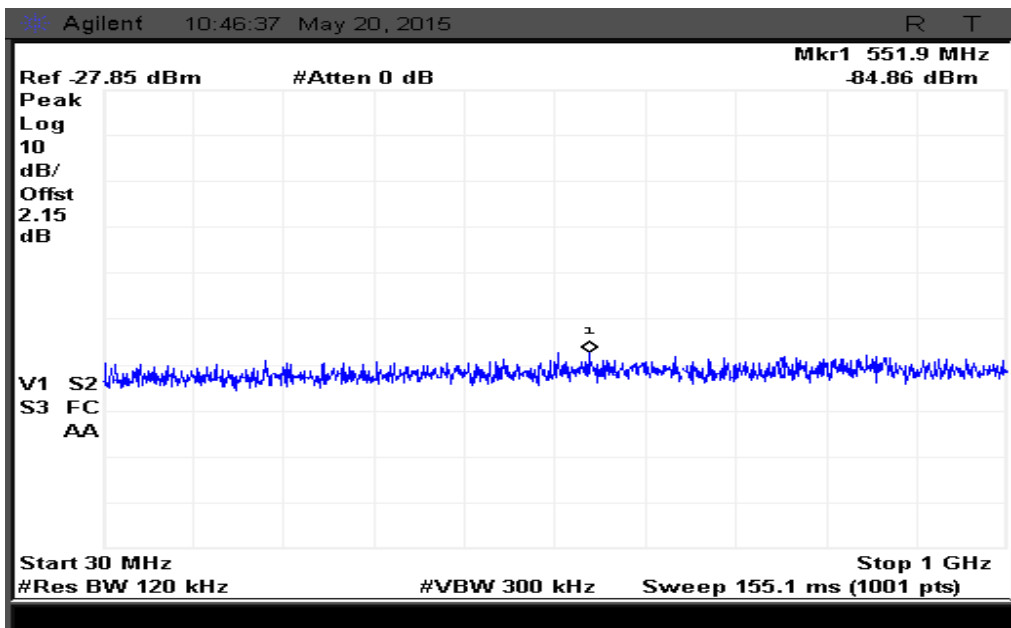


Figure 212: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

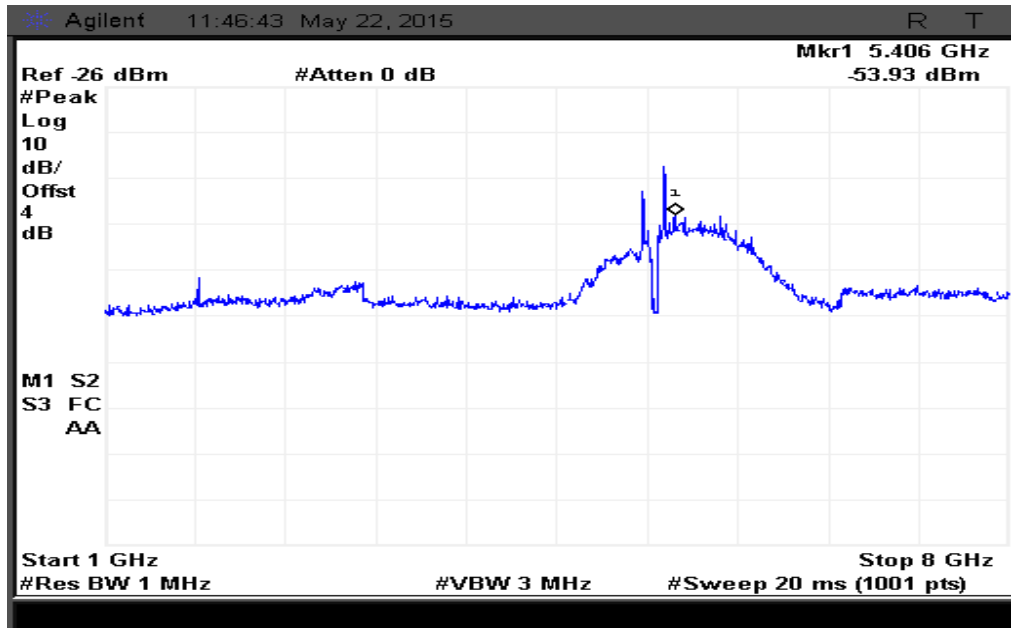


Figure 213: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

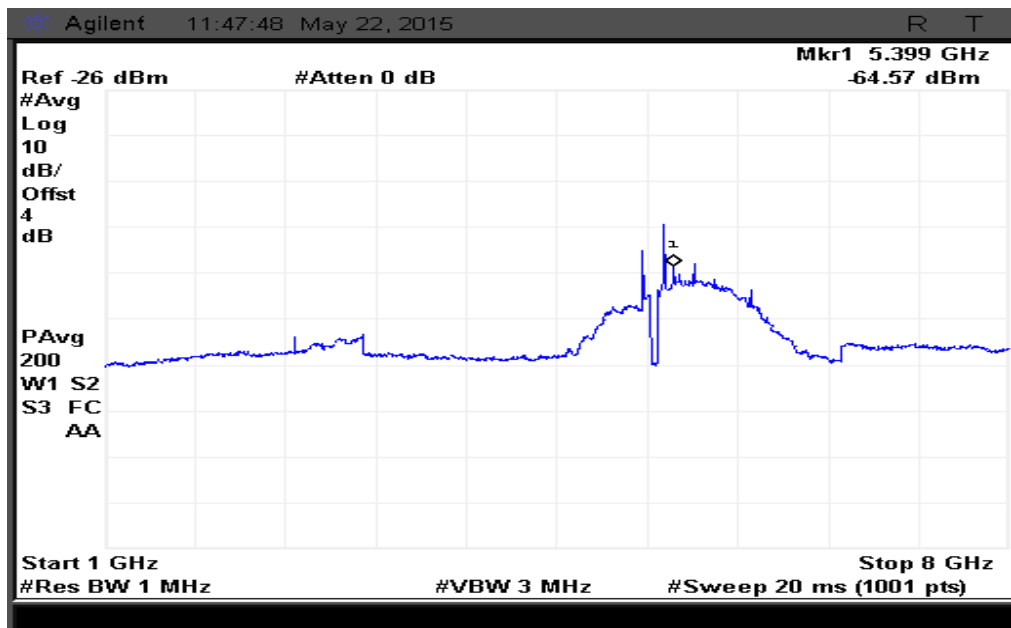


Figure 214: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

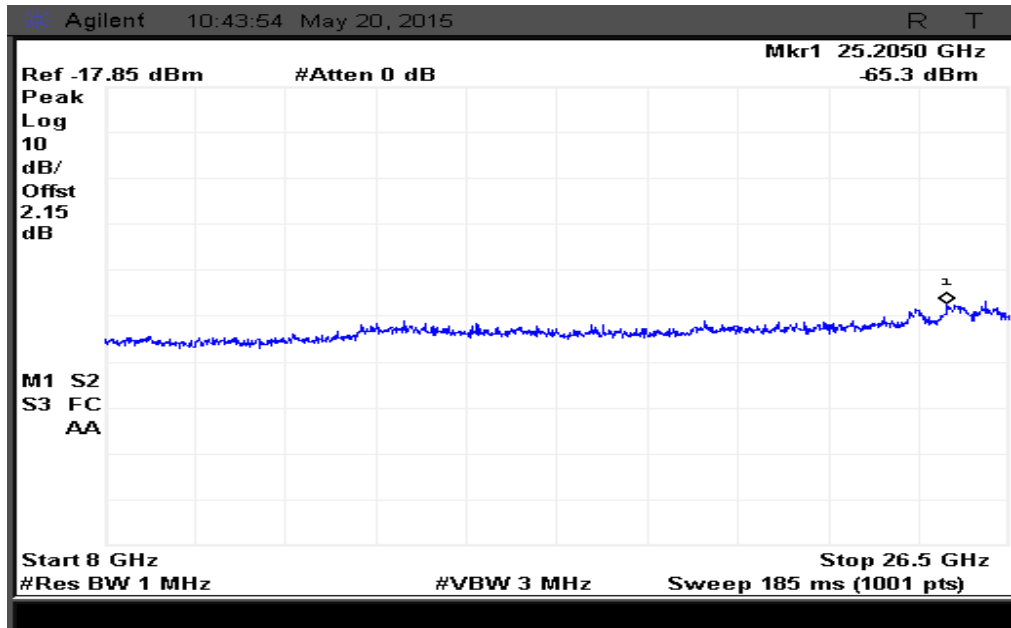


Figure 215: Spurious emission measured from 8 GHz to 26.50 GHz at Ch. 1-Peak

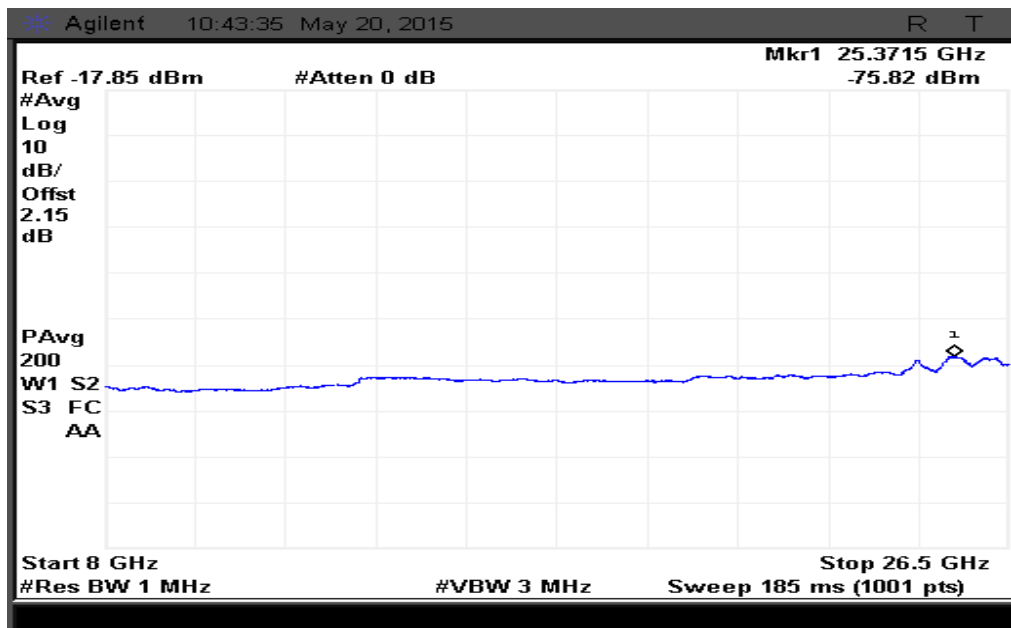


Figure 216: Spurious emission measured from 8 GHz to 26.50 GHz at Ch. 1-Average

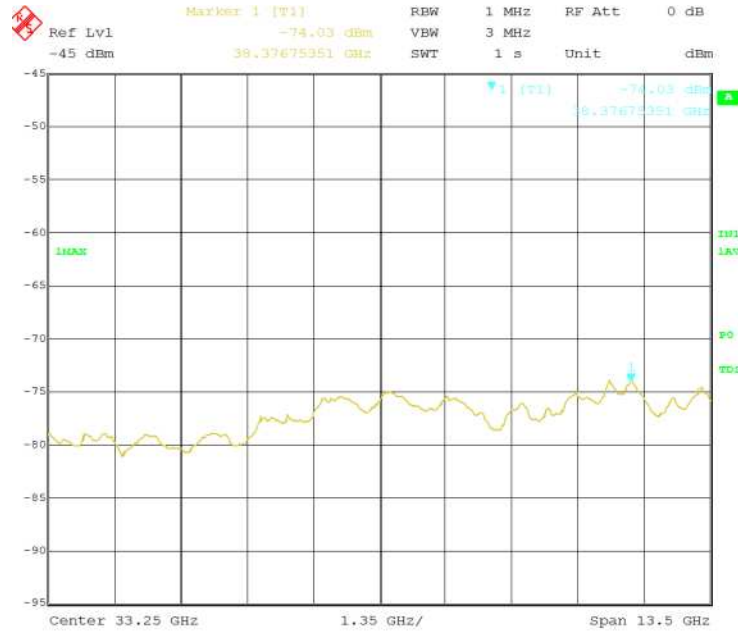


Figure 217: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

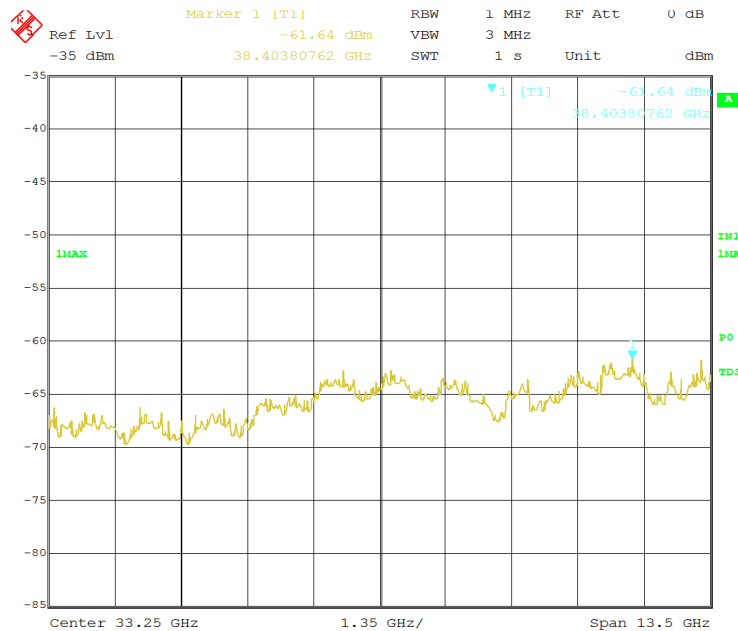


Figure 218: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.7 RESULT (SUPPORTING GRAPHS / DATA) FOR 24DBI DISH CONDITION

5.3.1.7.1 40MHz MODULATION BW - Low CHANNEL_5180 MHz

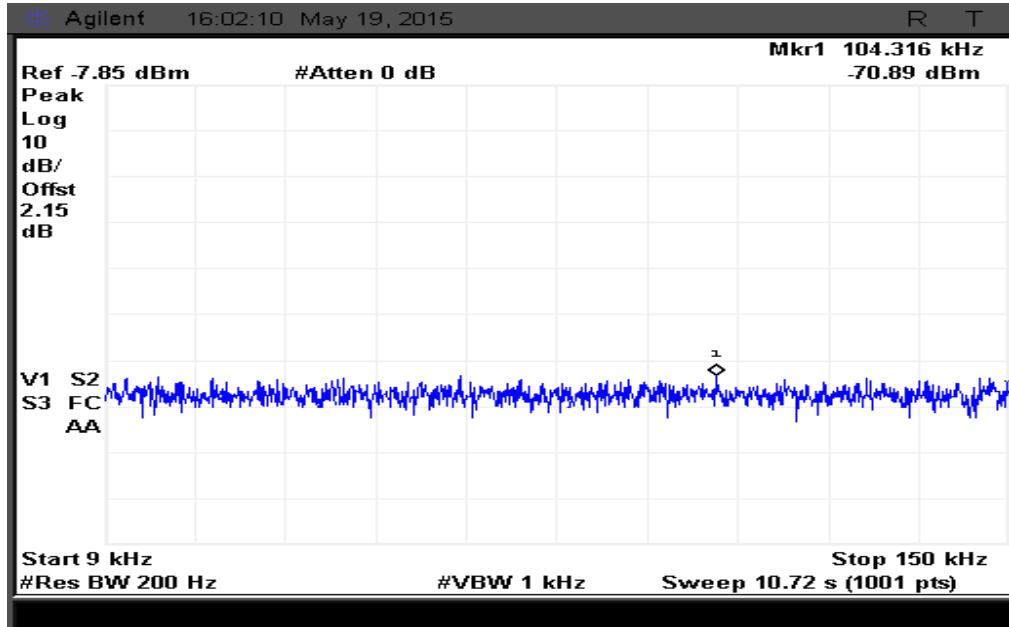


Figure 219: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

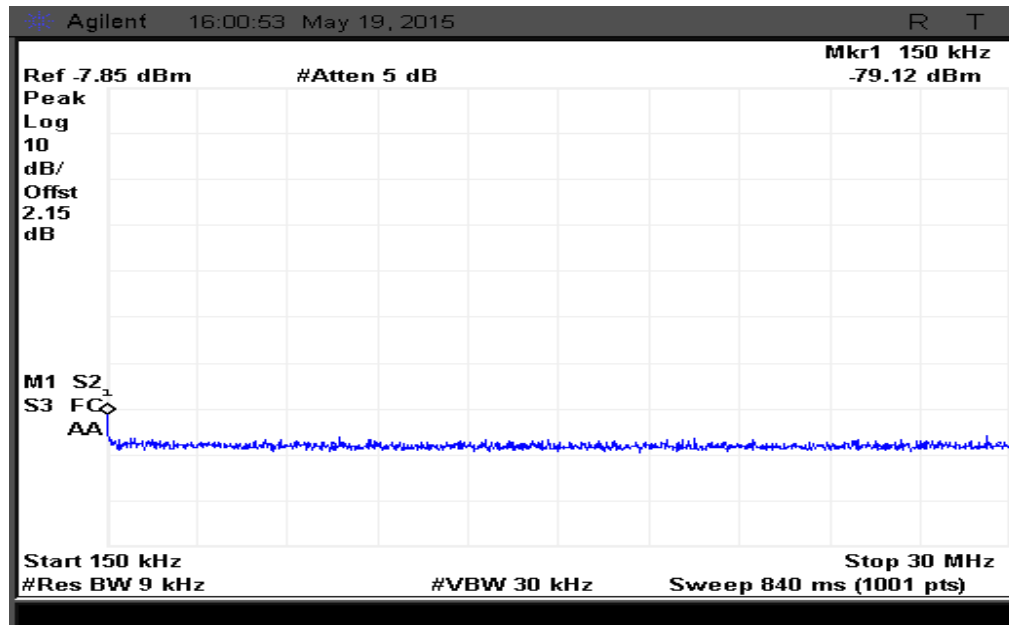


Figure 220: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

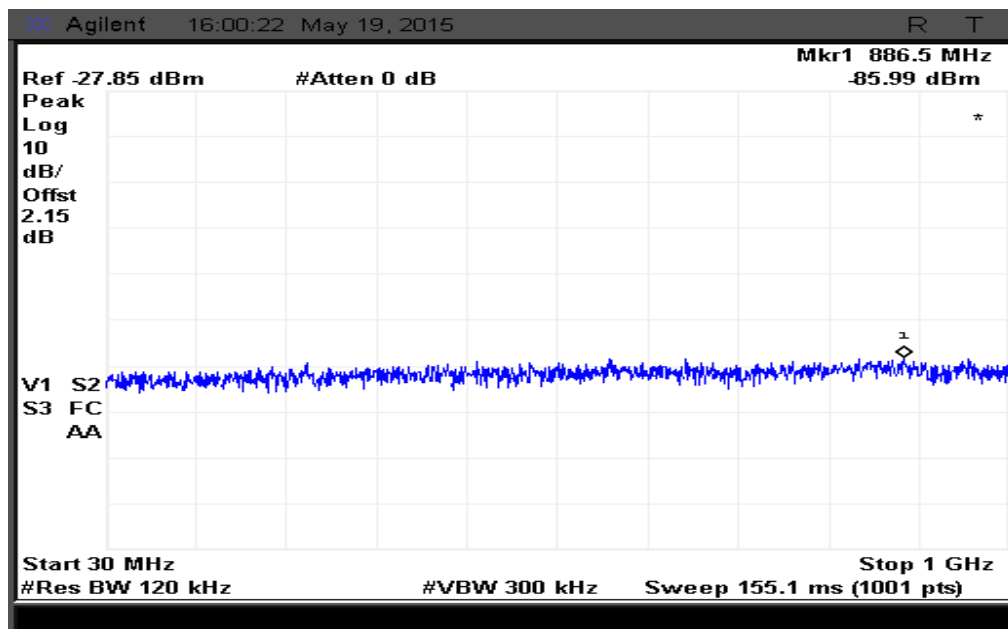


Figure 221: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

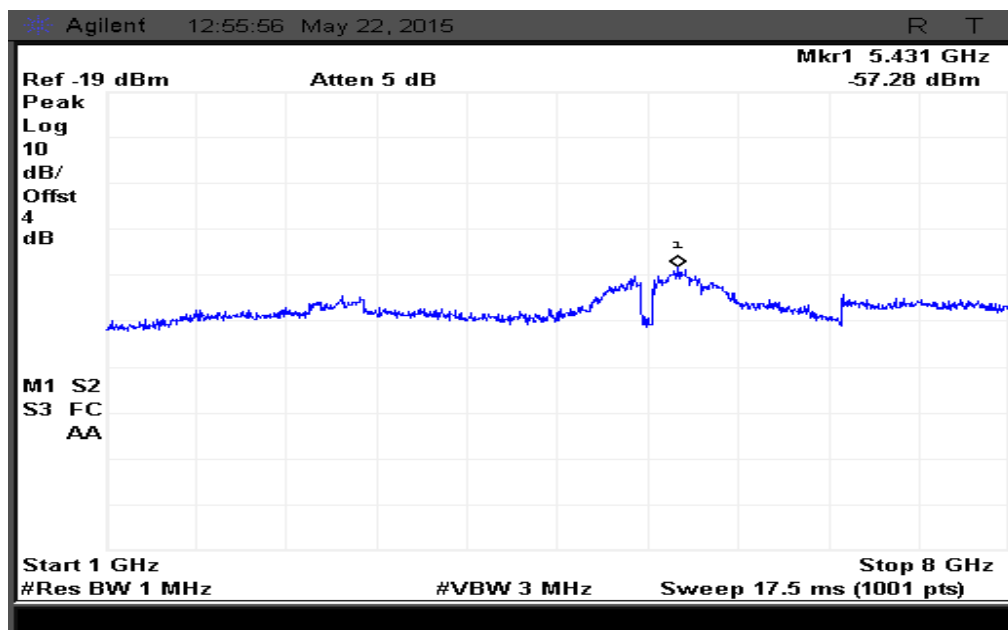


Figure 222: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

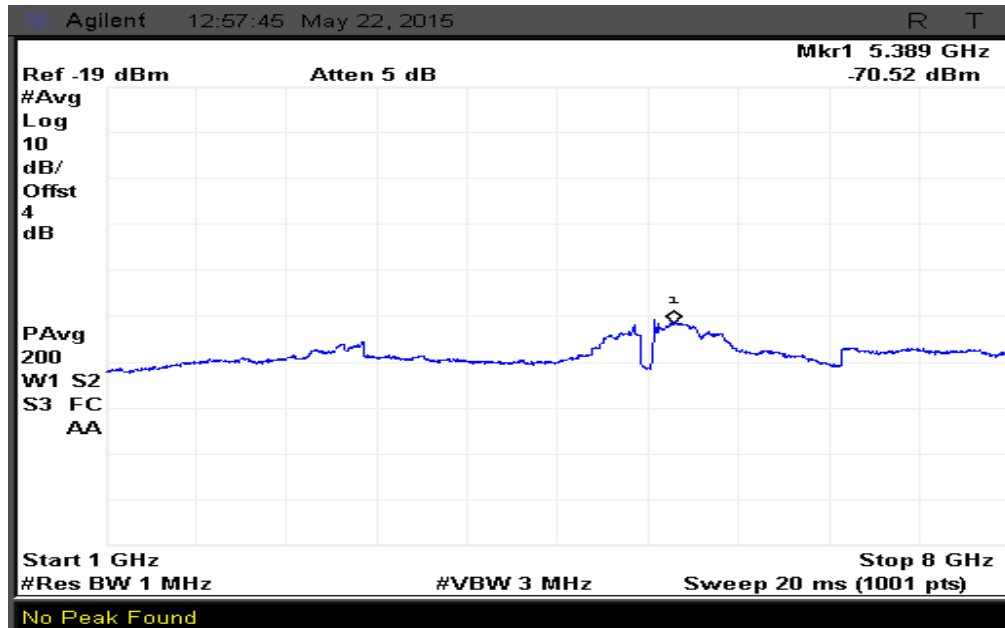


Figure 223: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

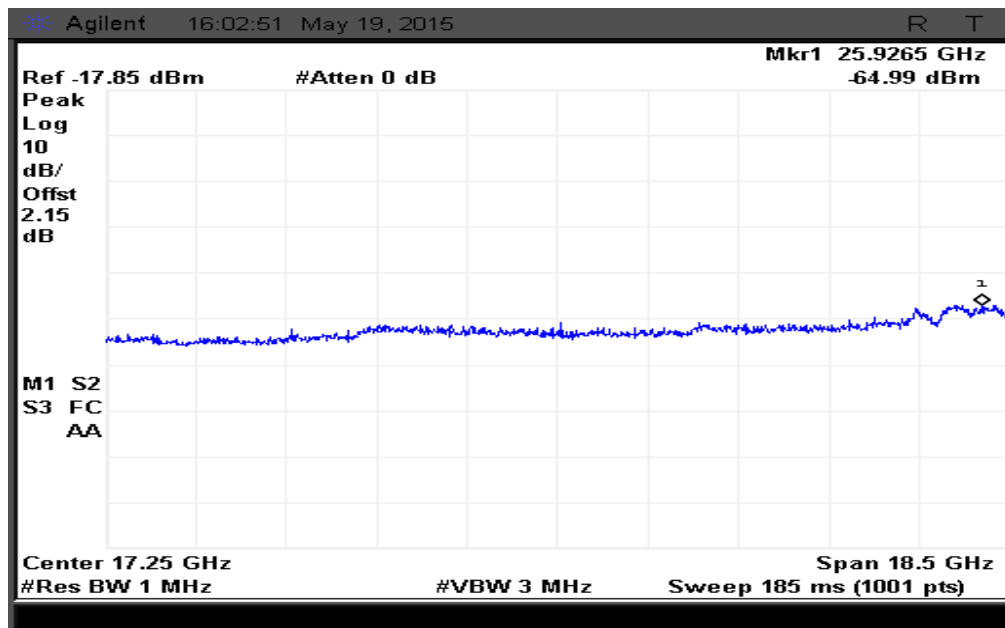


Figure 224: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

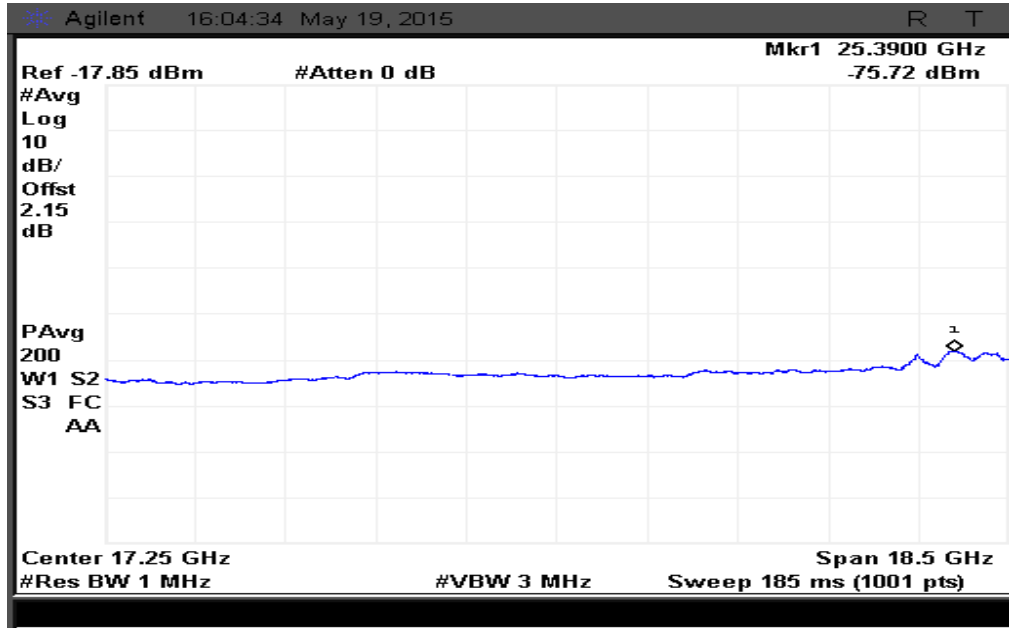


Figure 225: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

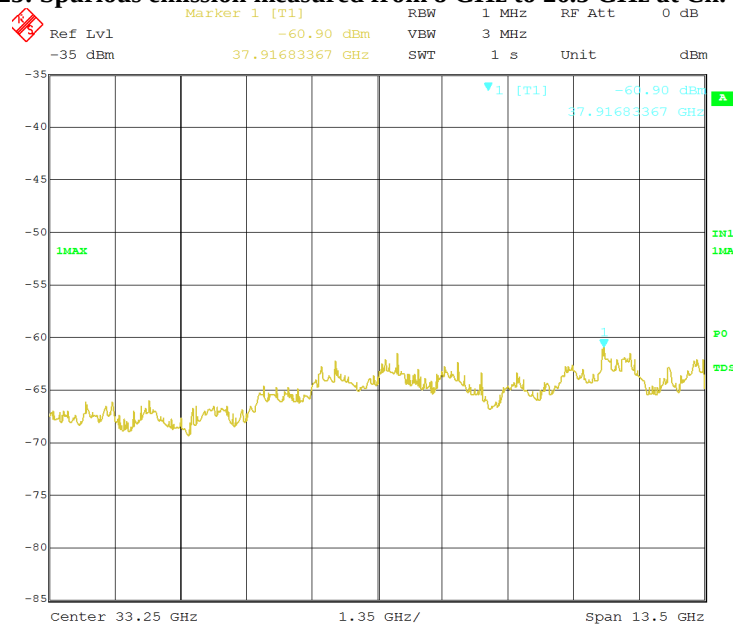


Figure 226: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

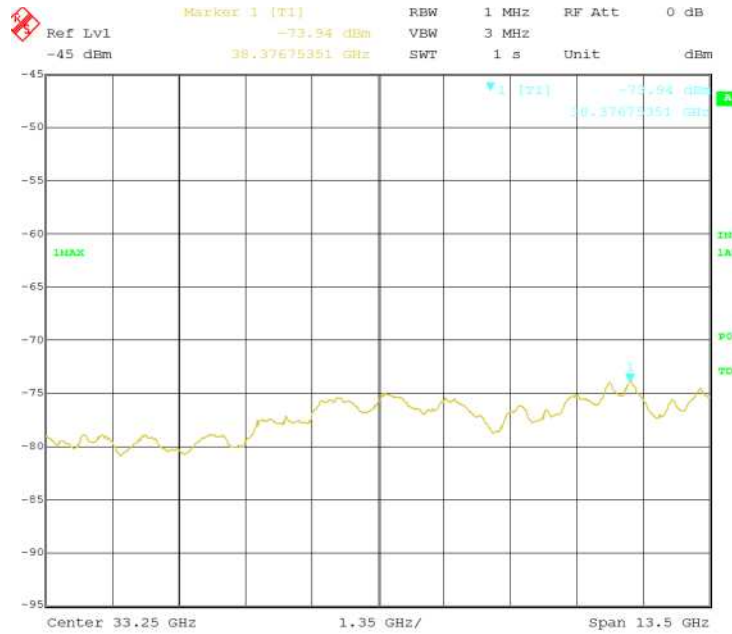


Figure 227: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg

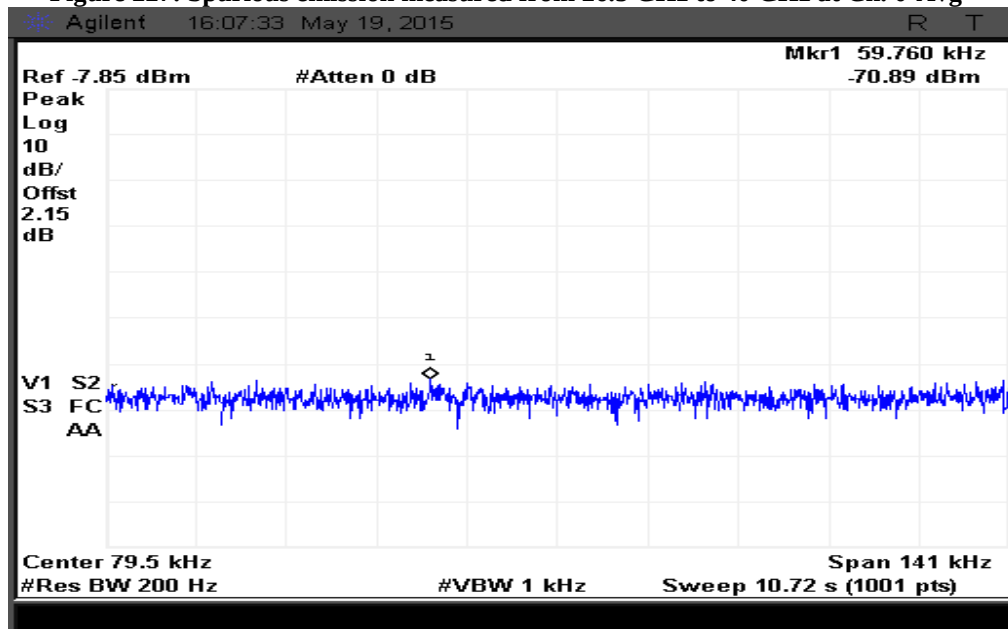


Figure 228: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

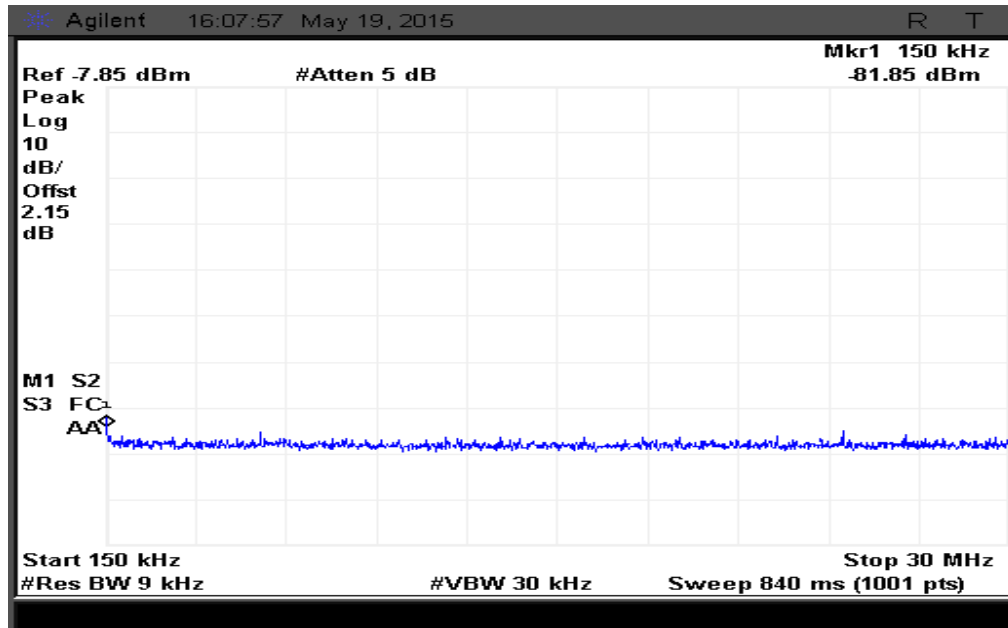


Figure 229: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

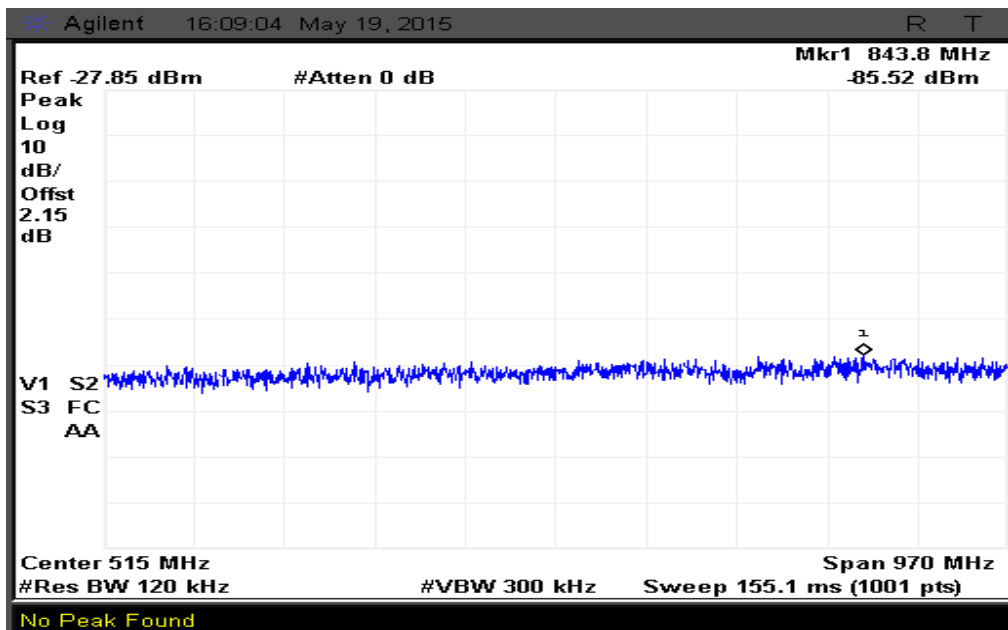


Figure 230: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

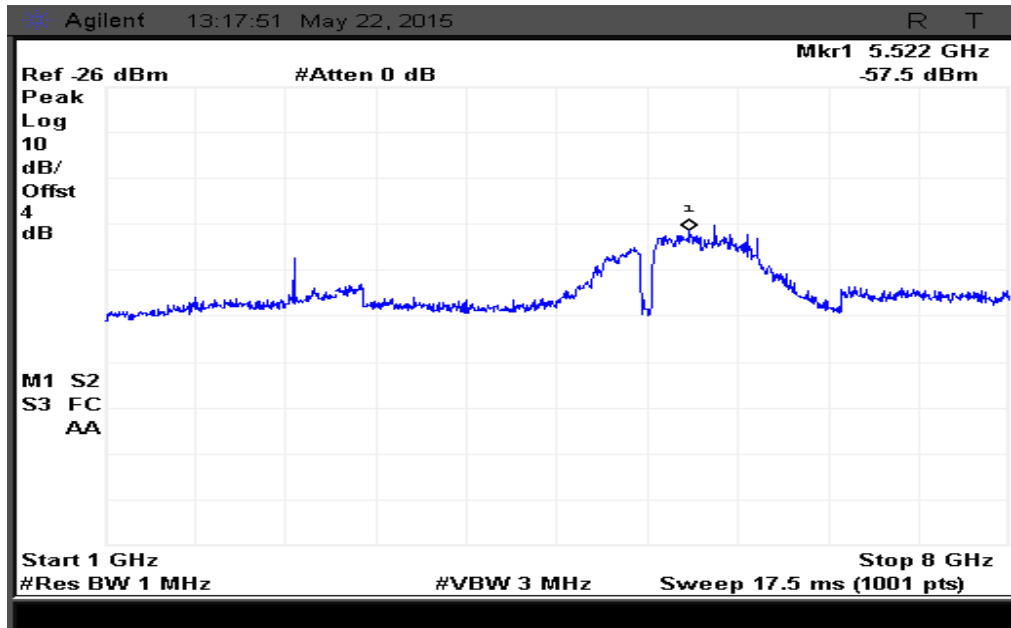


Figure 231: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

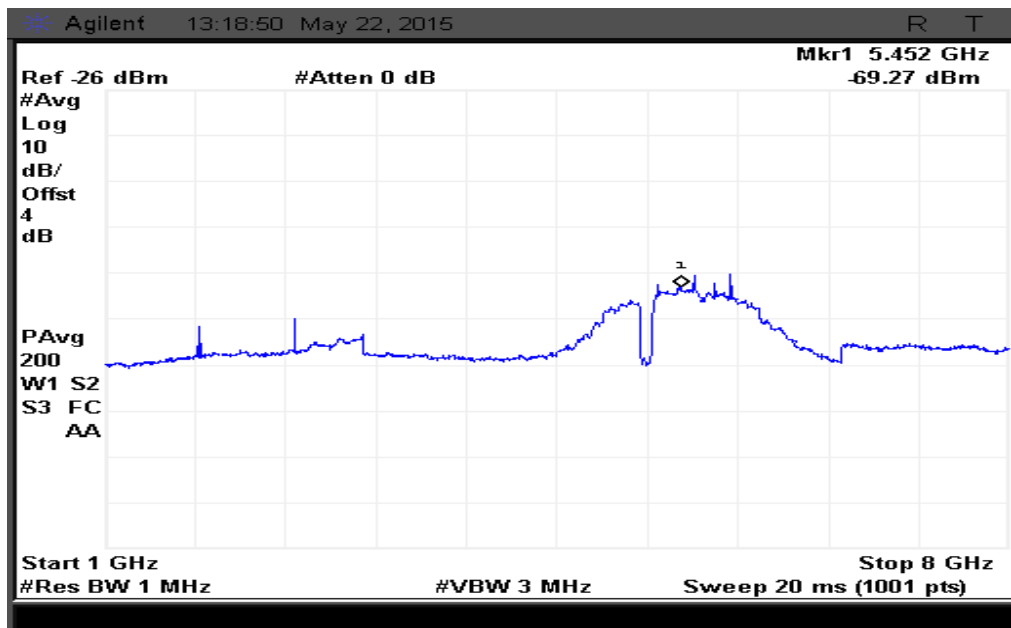


Figure 232: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

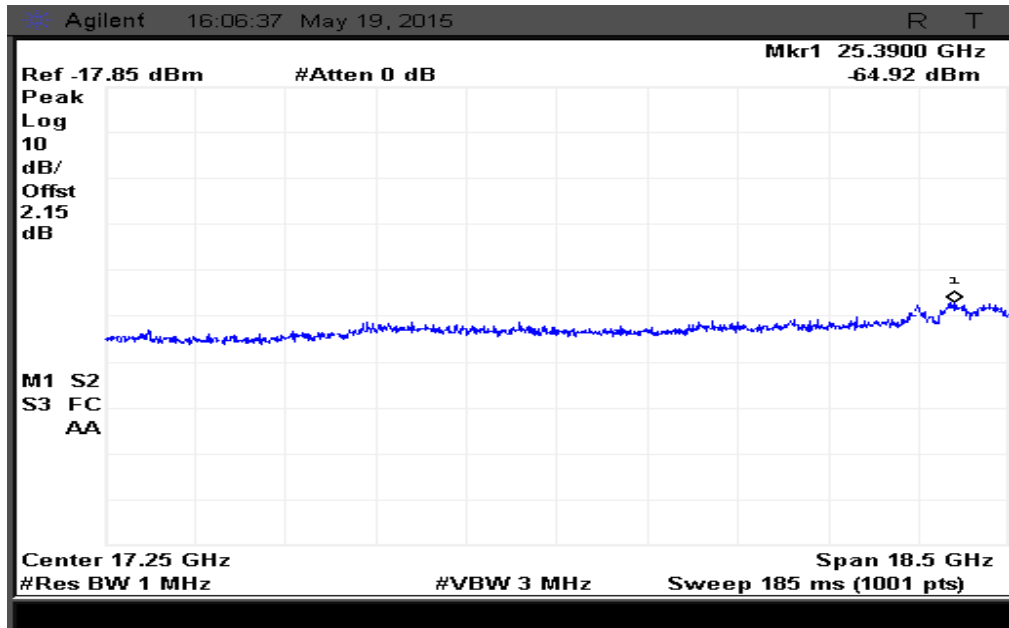


Figure 233: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

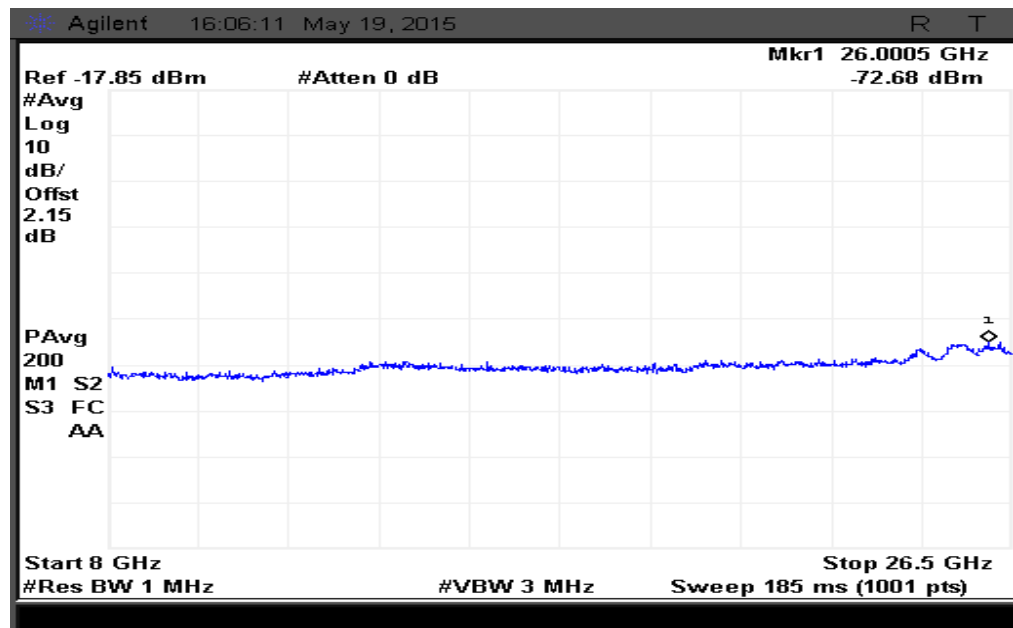


Figure 234: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

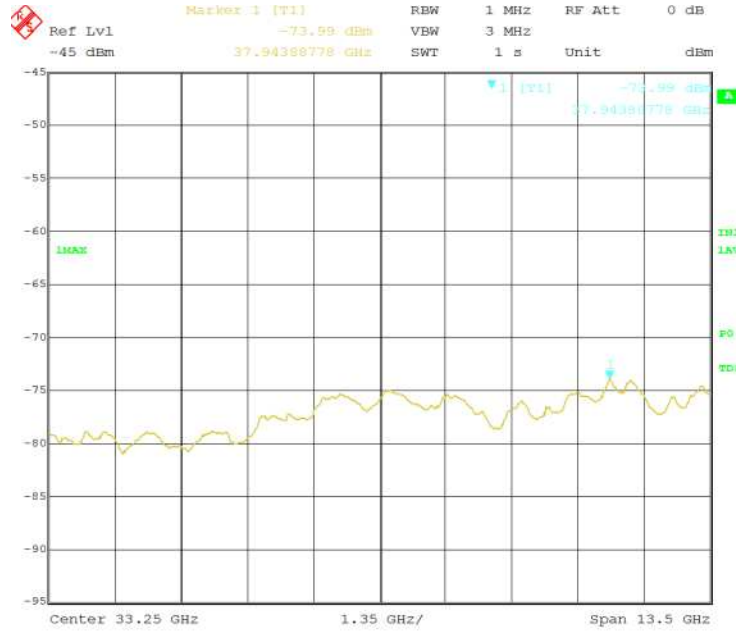


Figure 235: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

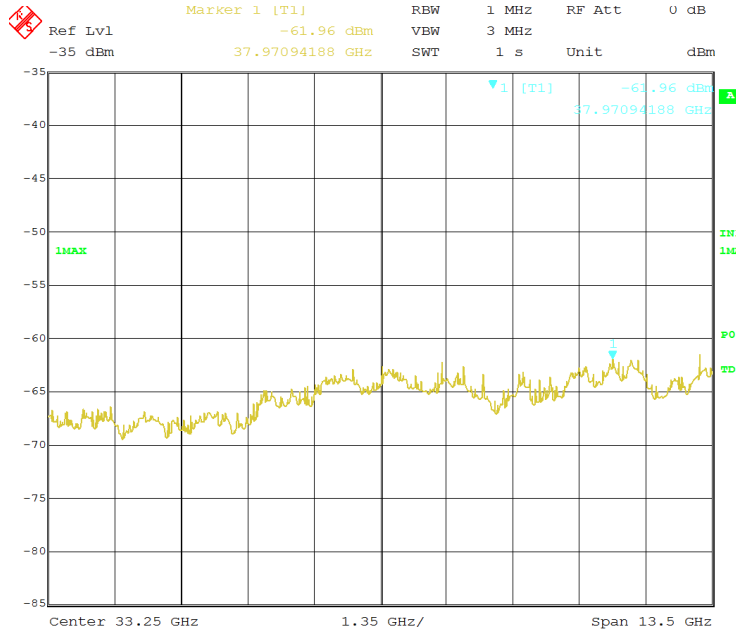


Figure 236: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.7.2 40MHz MODULATION BW - MID CHANNEL_5200 MHz

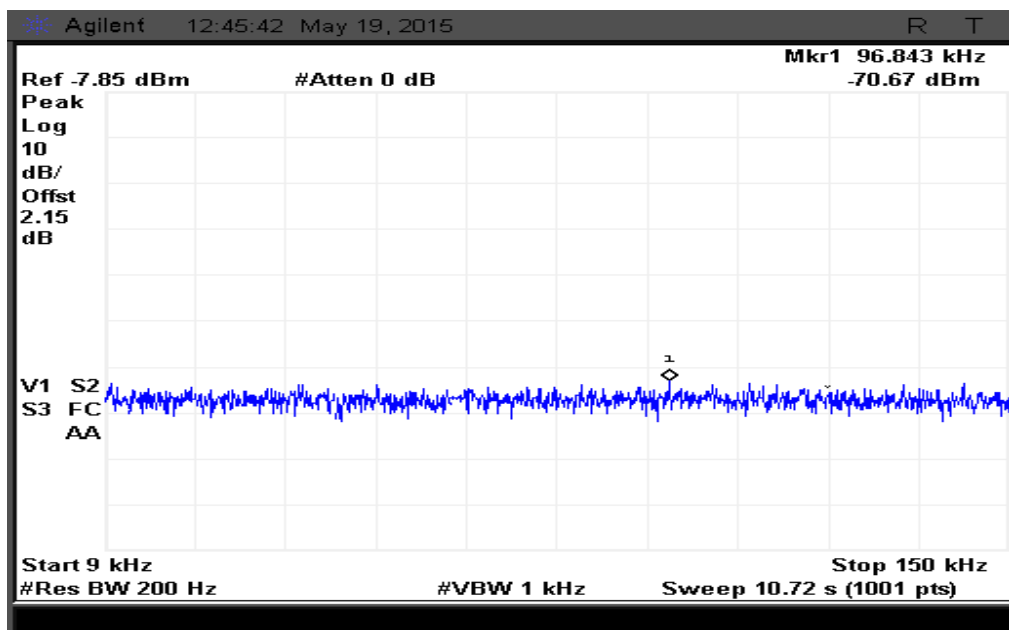


Figure 237: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

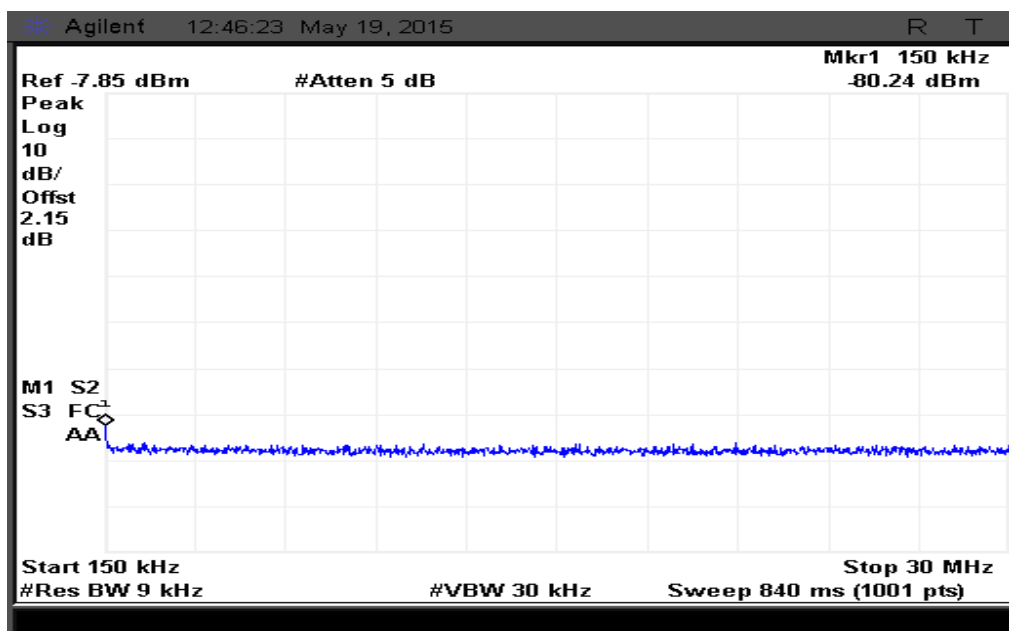


Figure 238: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

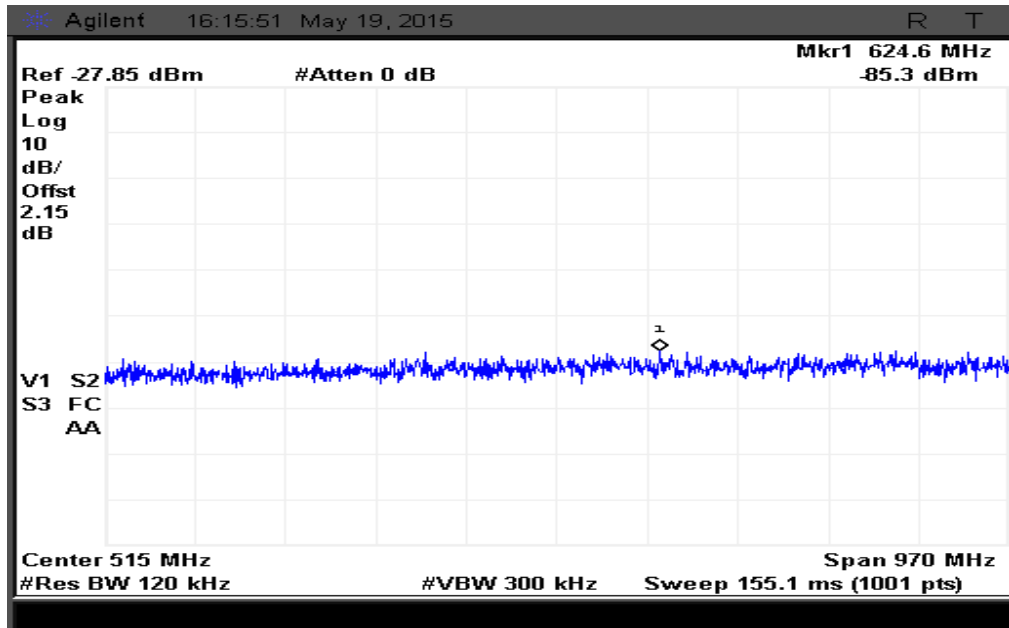


Figure 239: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

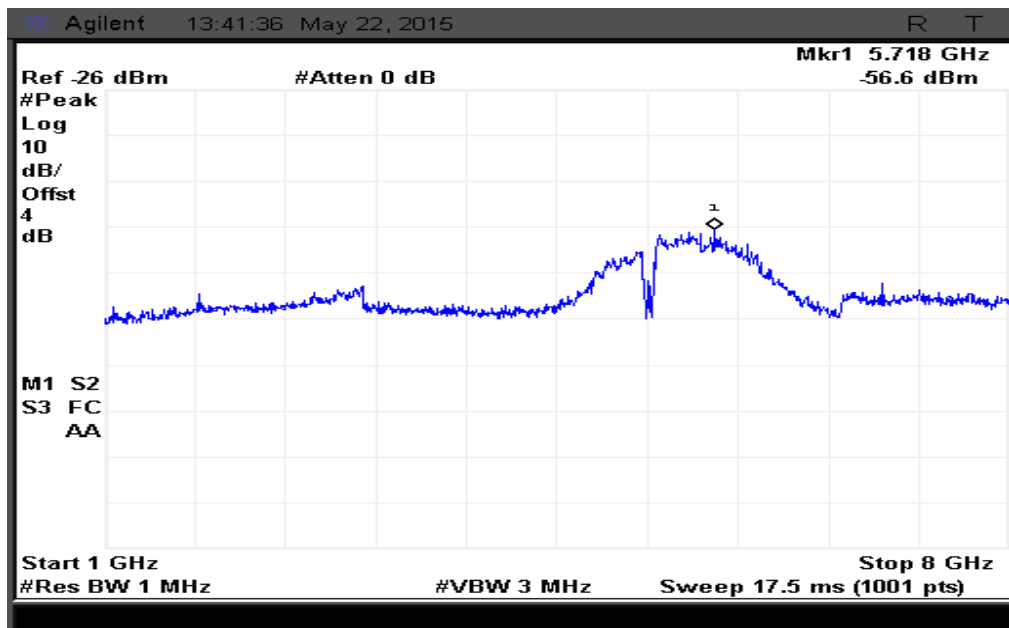


Figure 240: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

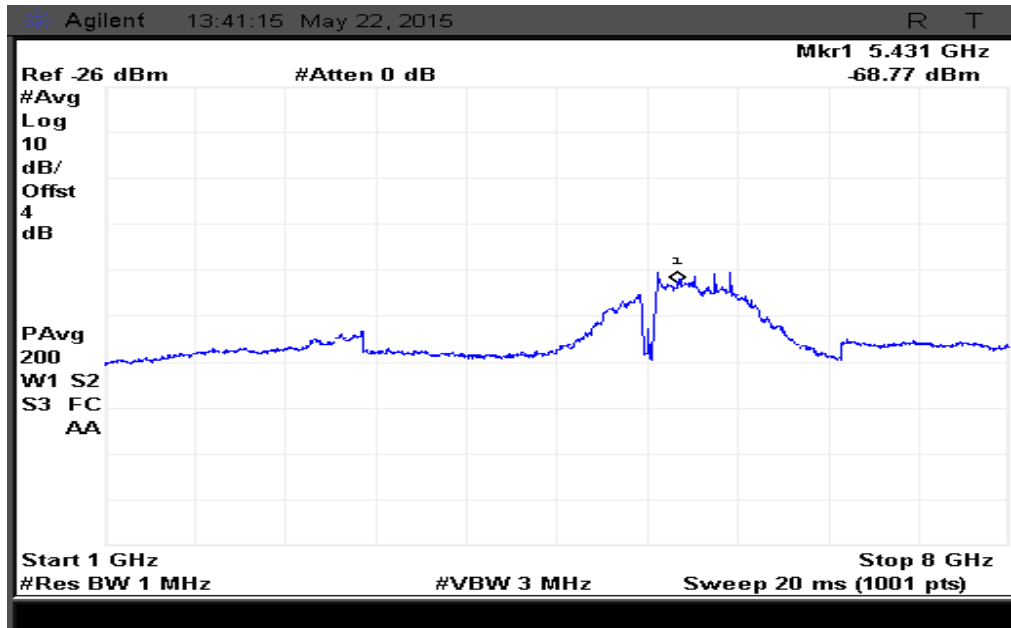


Figure 241: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

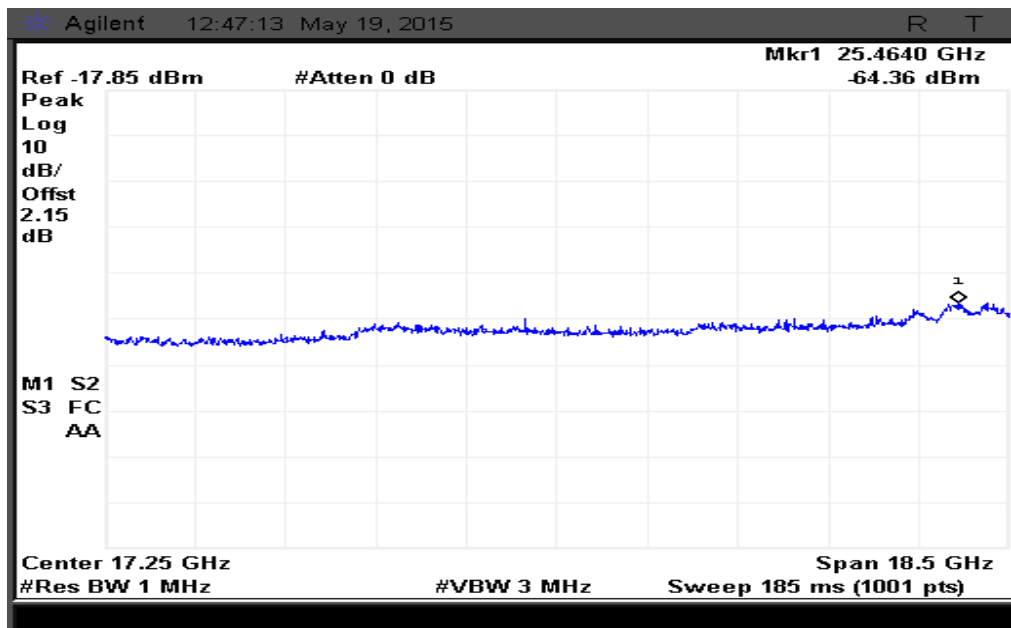


Figure 242: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

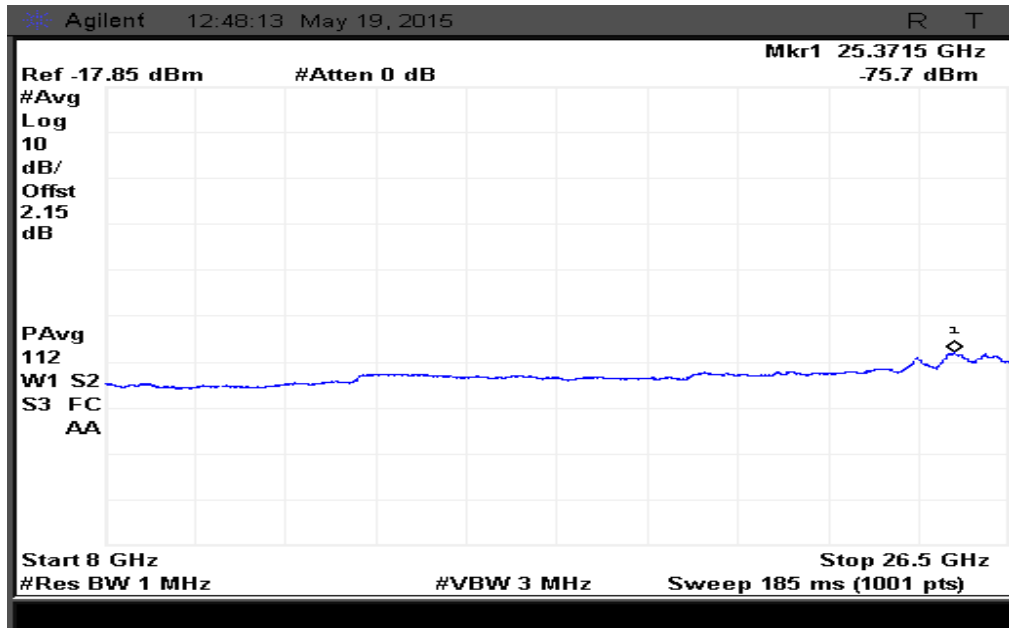


Figure 243: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

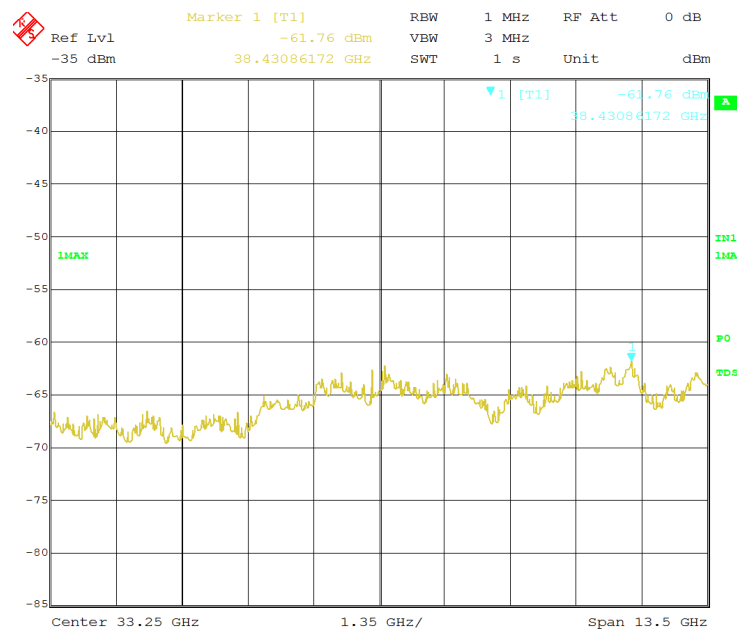


Figure 244: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

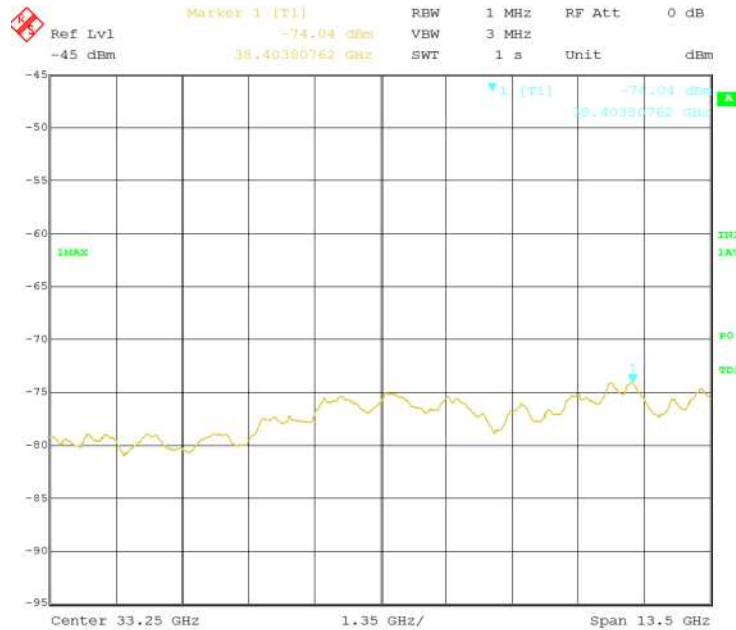


Figure 245: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

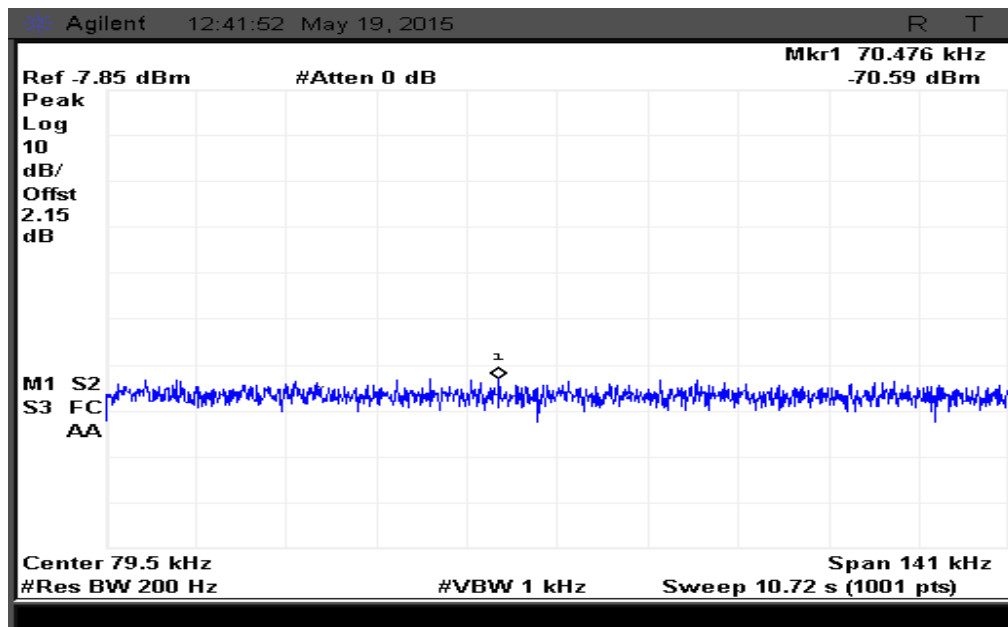


Figure 246: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

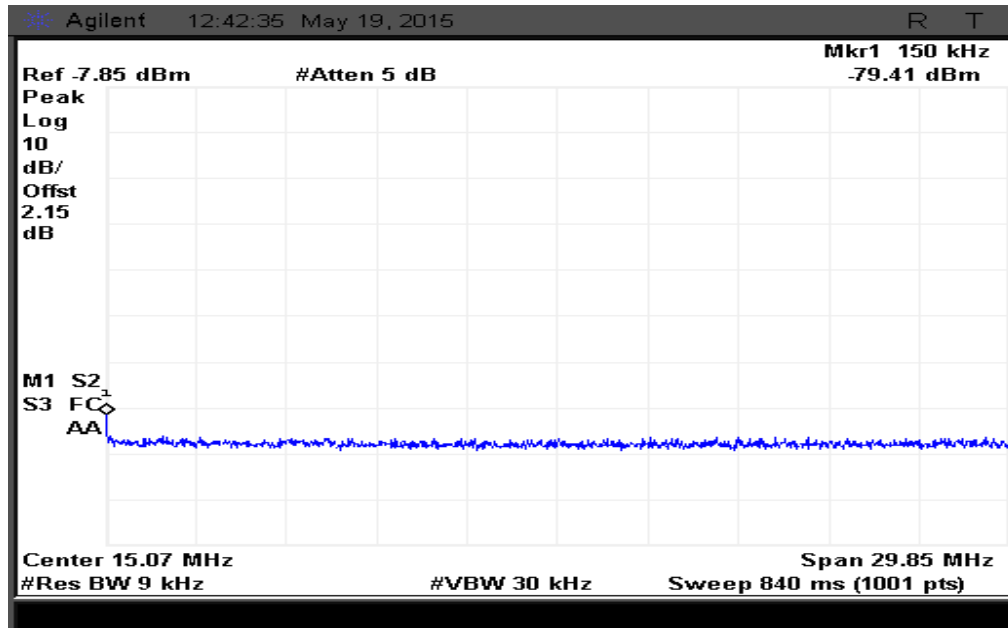


Figure 247: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

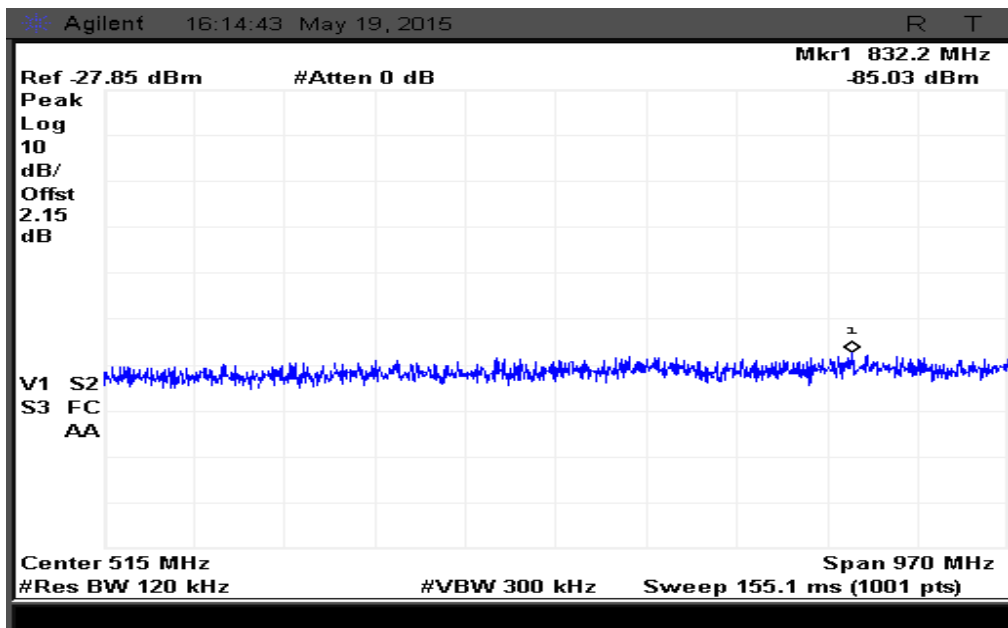


Figure 248: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

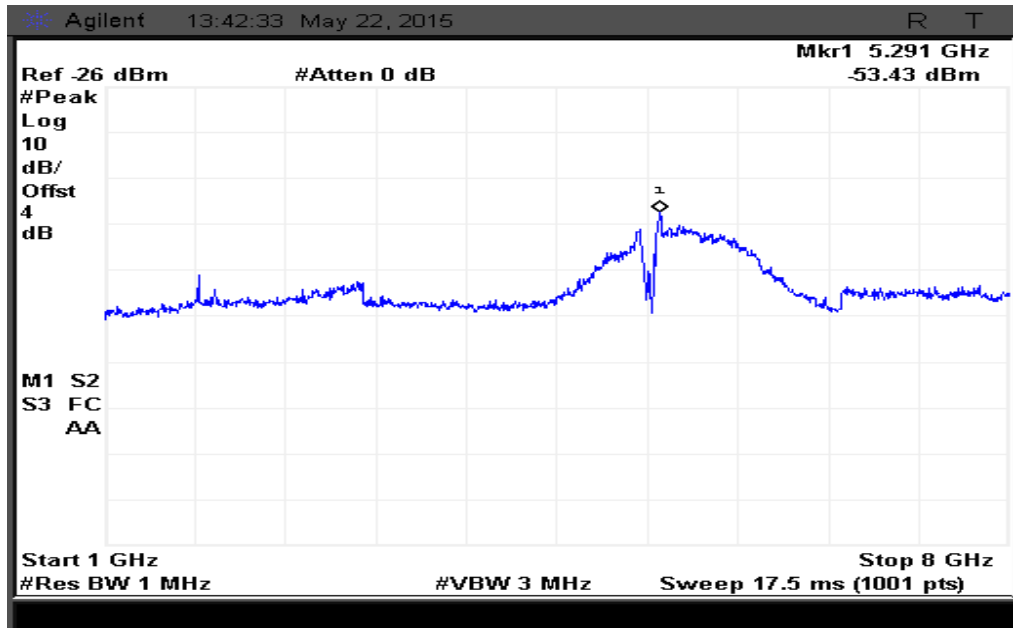


Figure 249: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

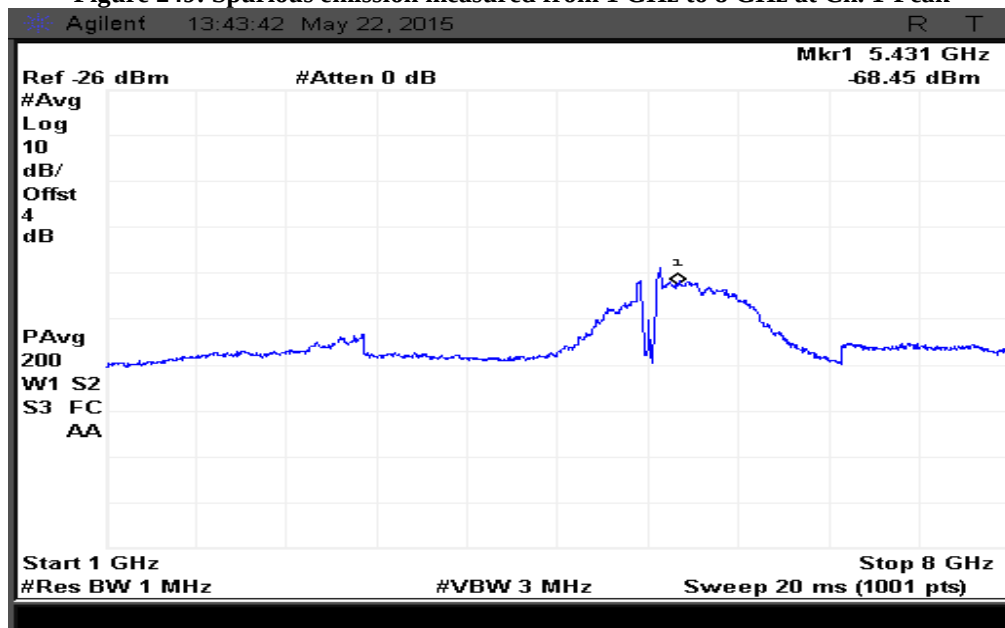


Figure 250: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

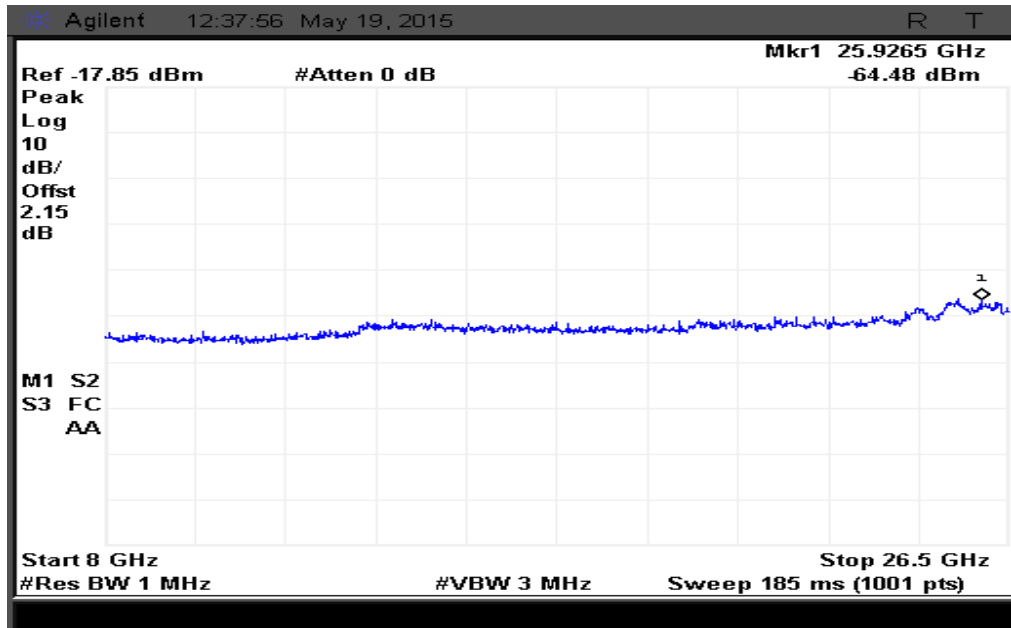


Figure 251: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

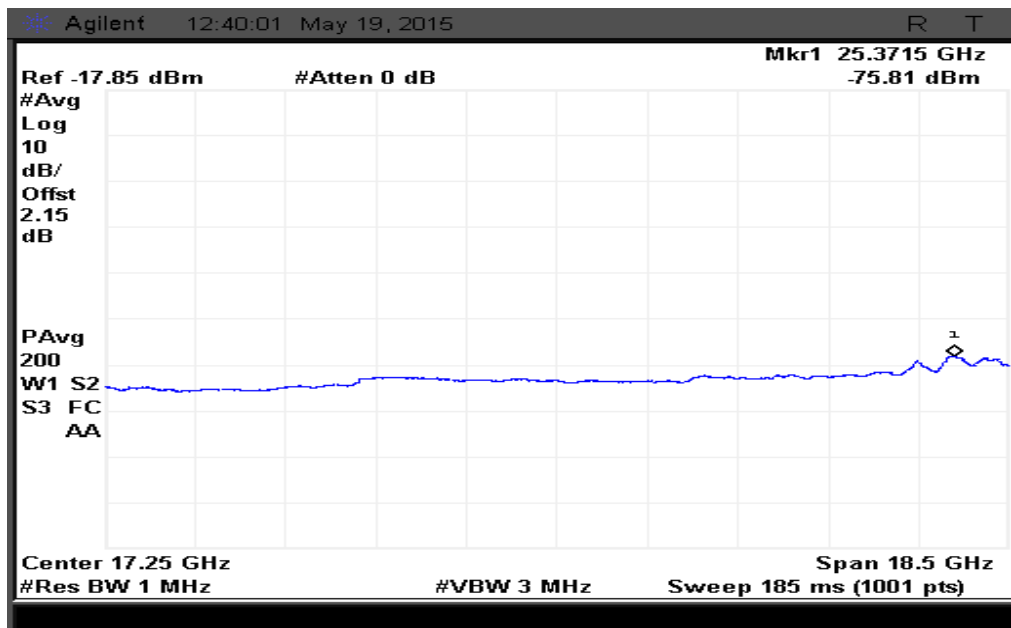


Figure 252: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

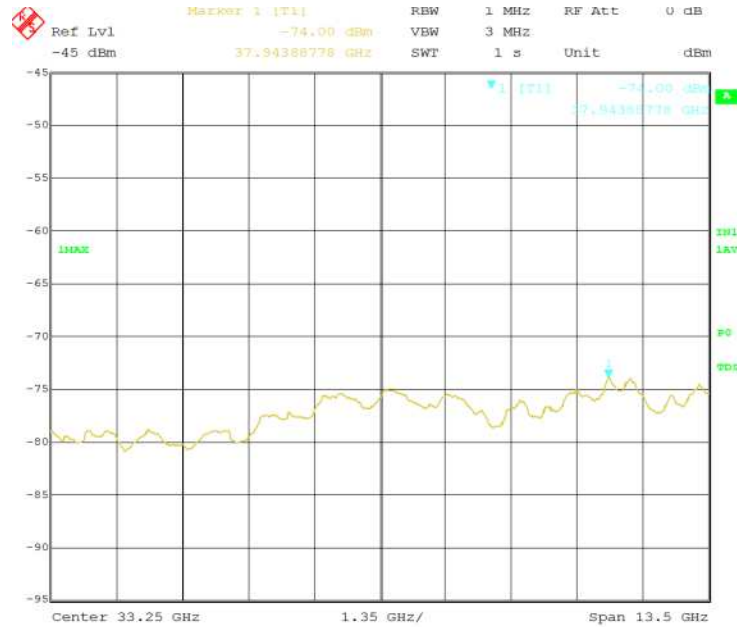


Figure 253: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

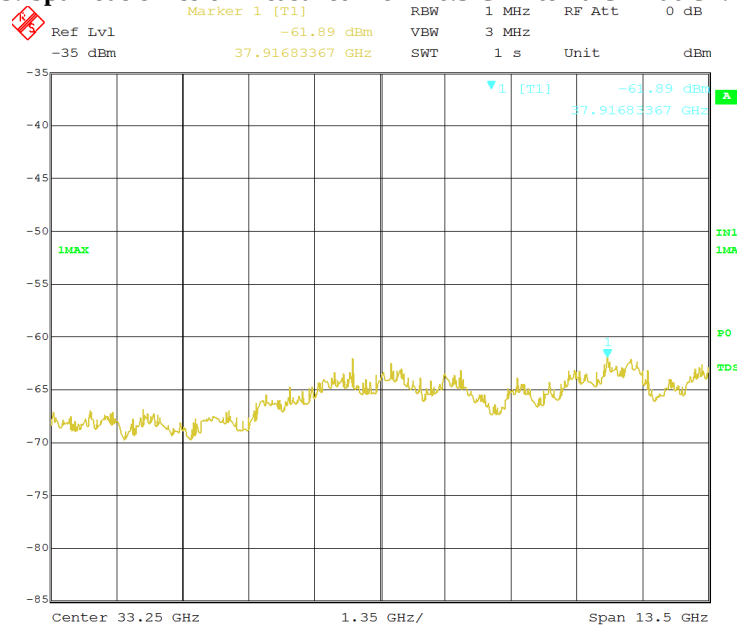


Figure 254: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.7.3 40MHz MODULATION BW - HIGH CHANNEL_5220MHZ

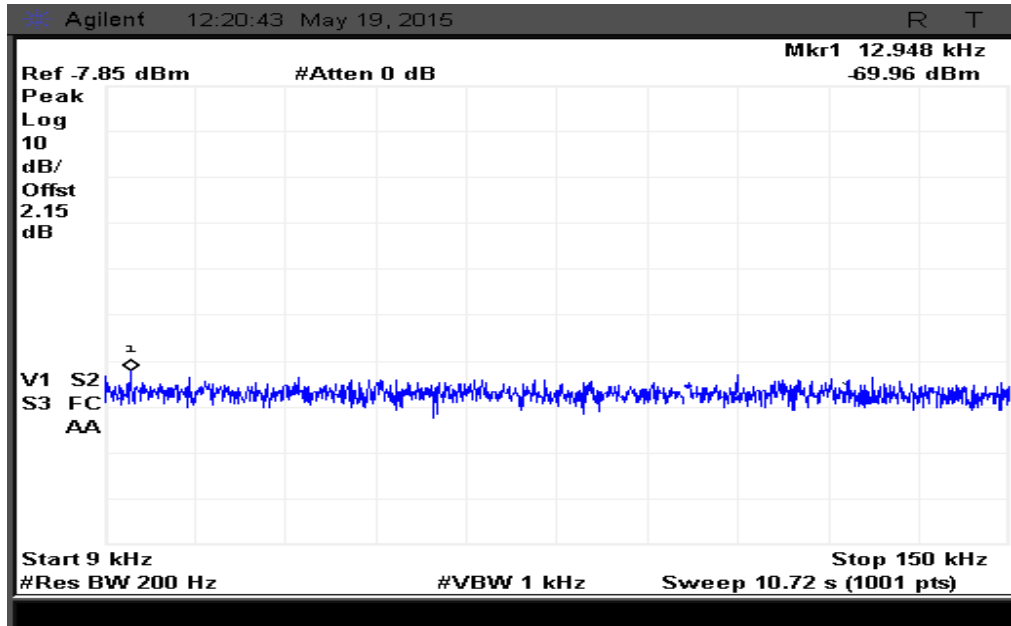


Figure 255: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

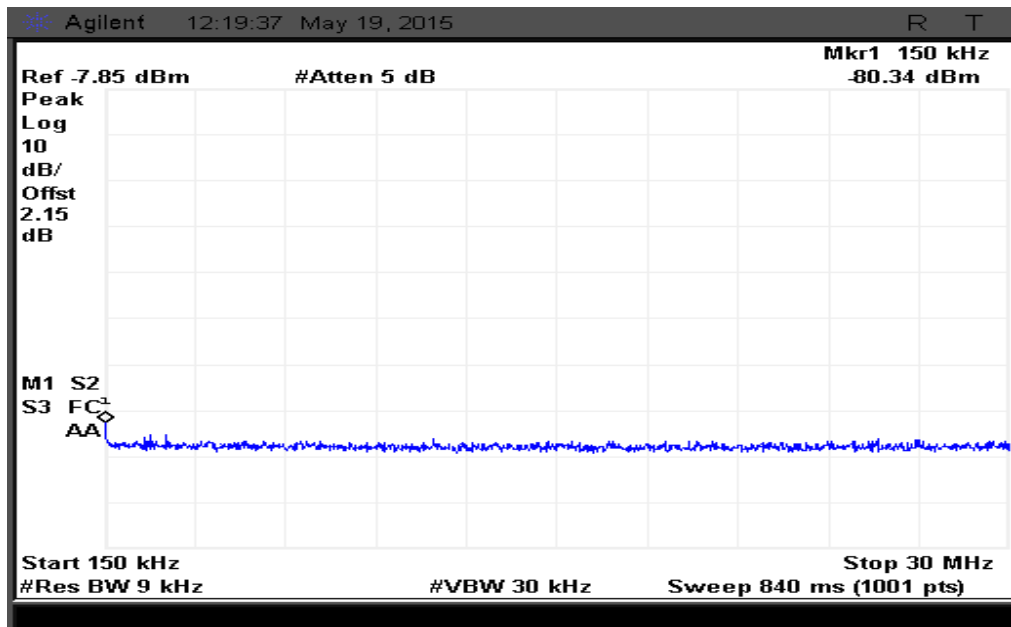


Figure 256: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

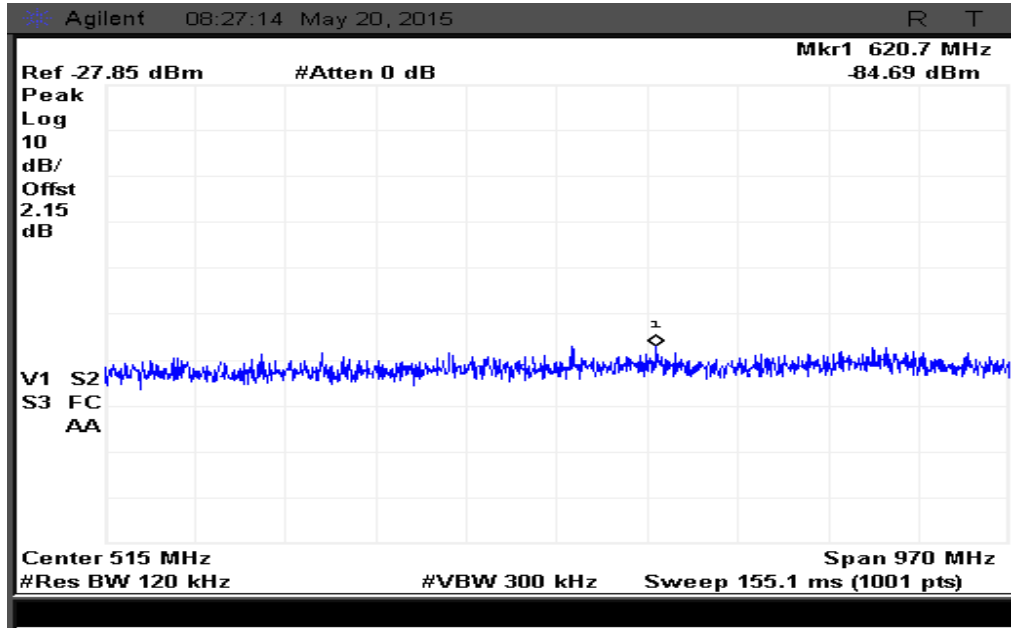


Figure 257: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

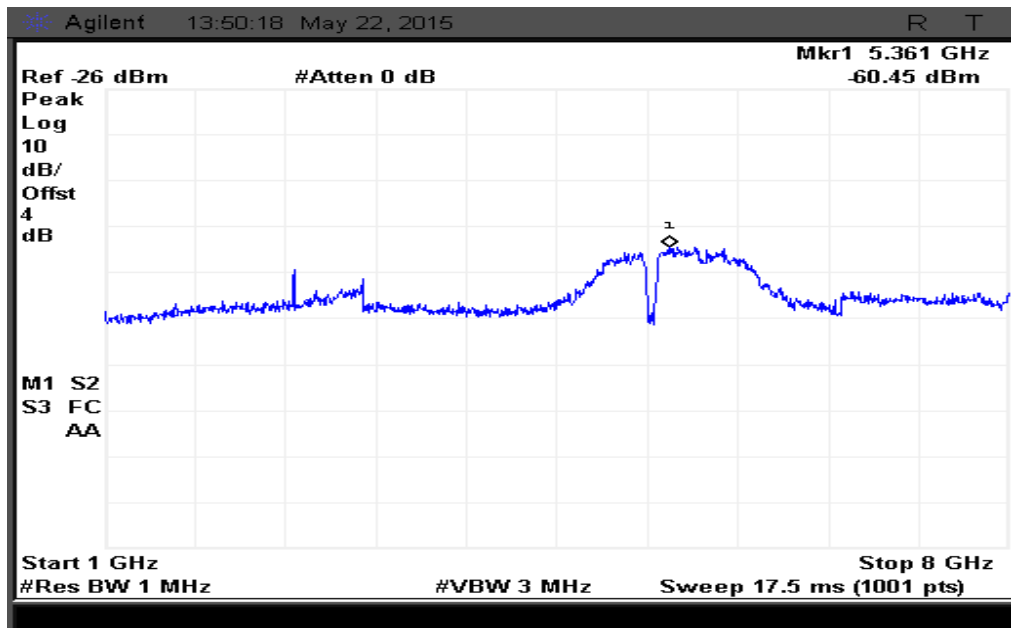


Figure 258: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

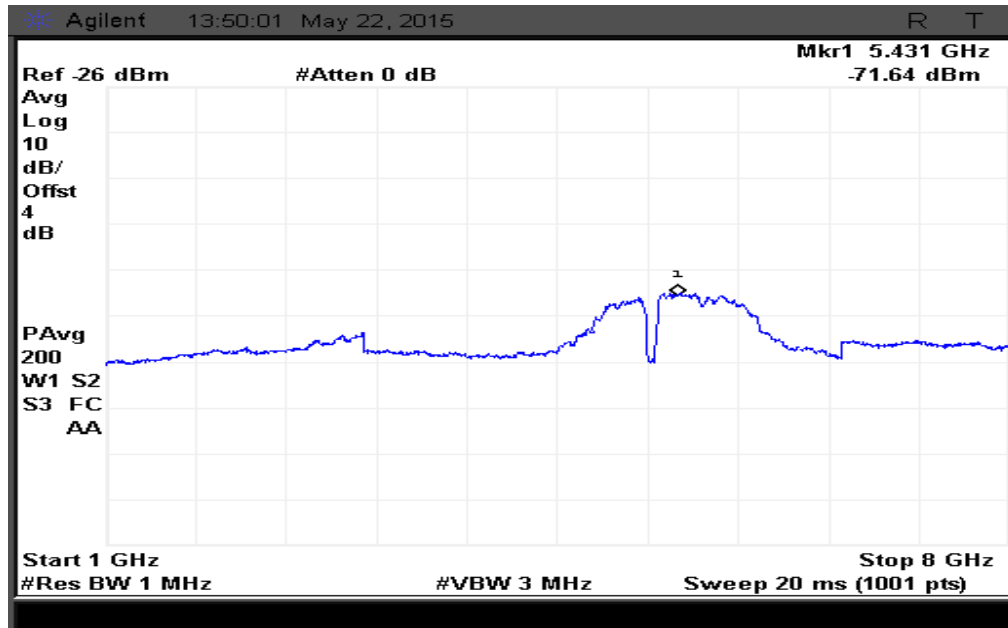


Figure 259: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

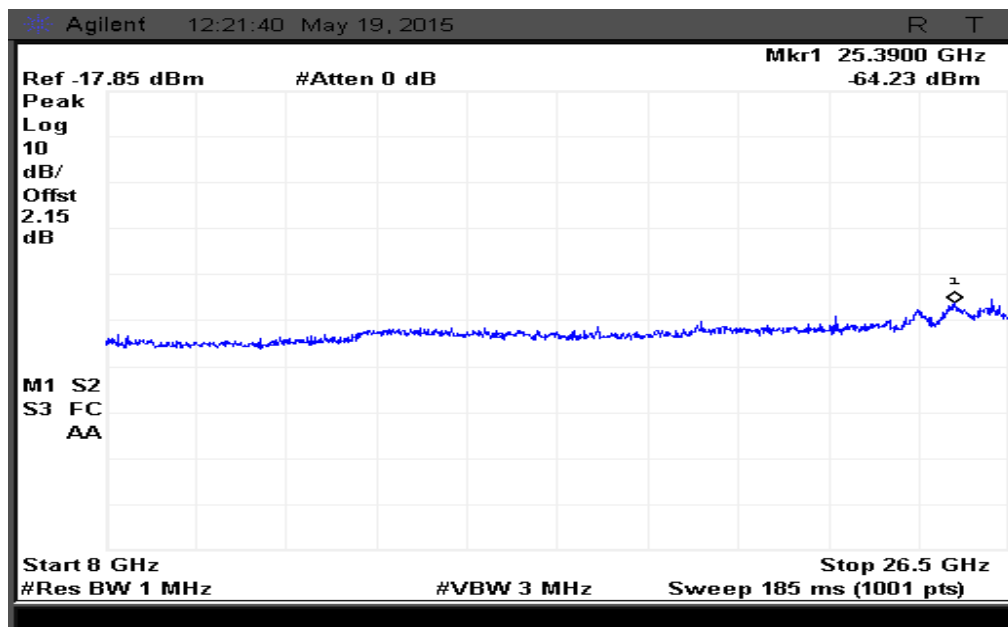


Figure 260 : Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

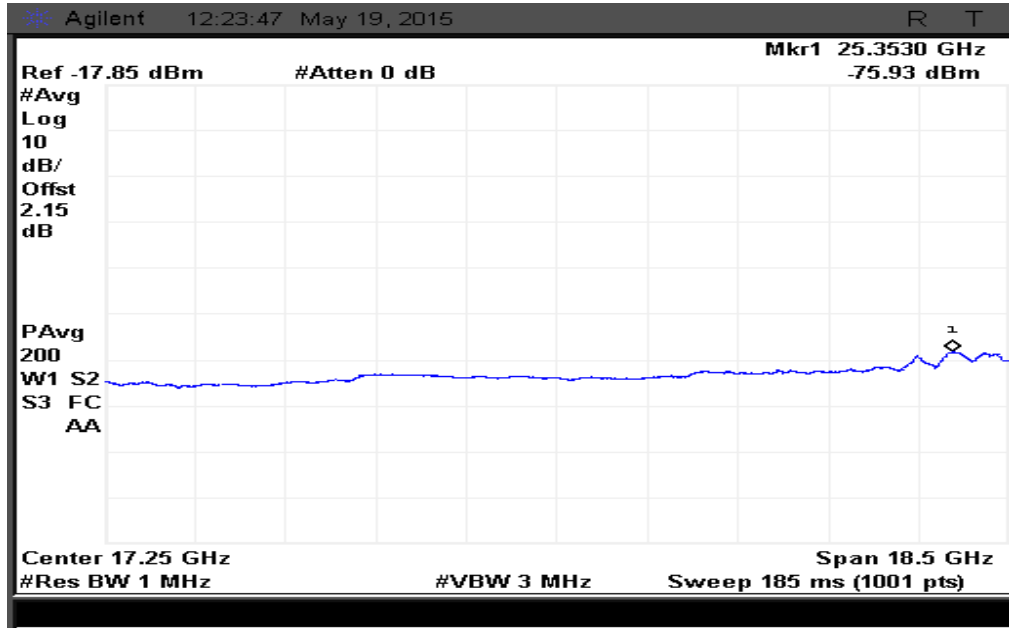


Figure 261: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

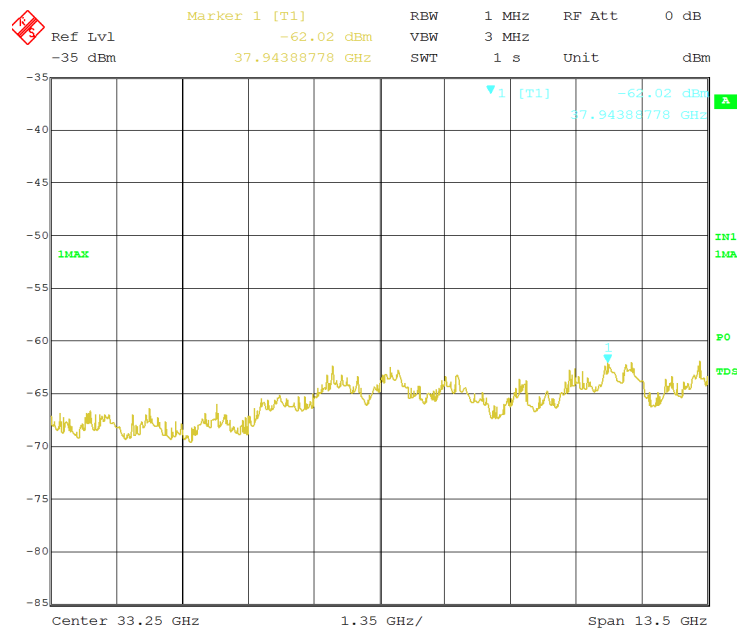


Figure 262: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

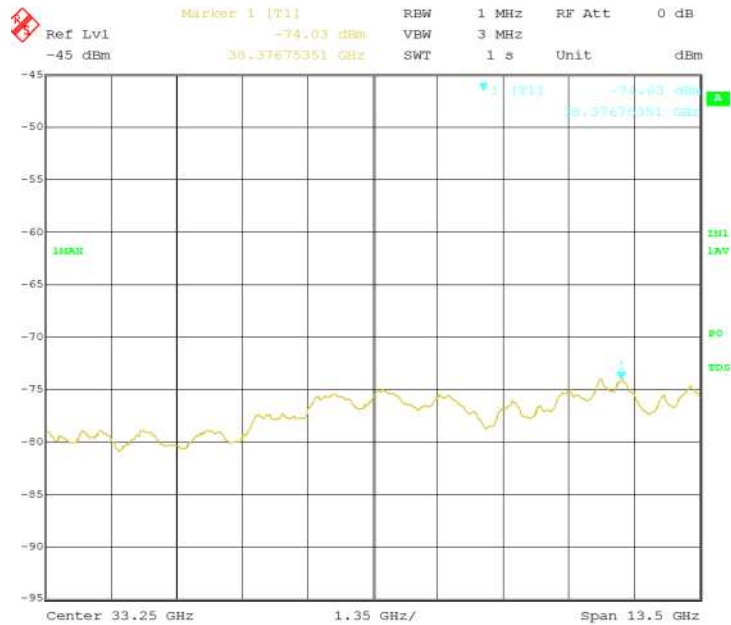


Figure 263: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Average

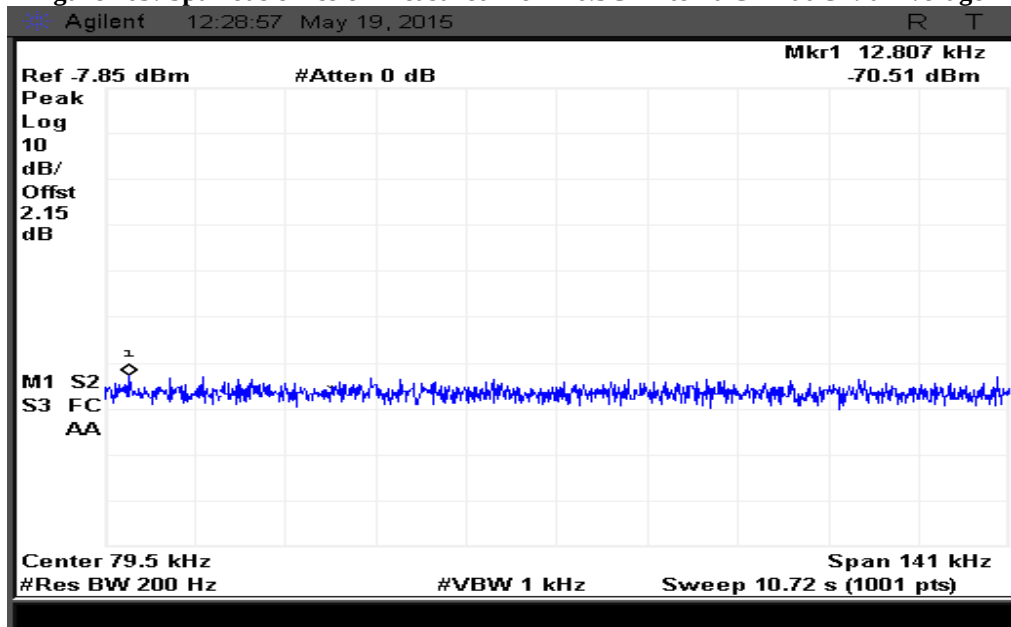


Figure 264: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

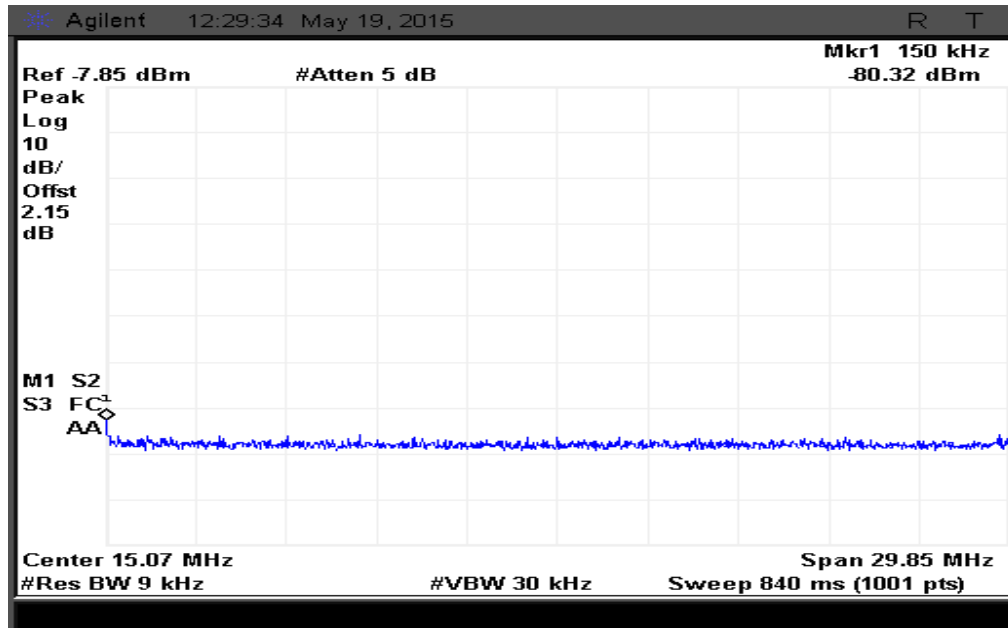


Figure 265: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

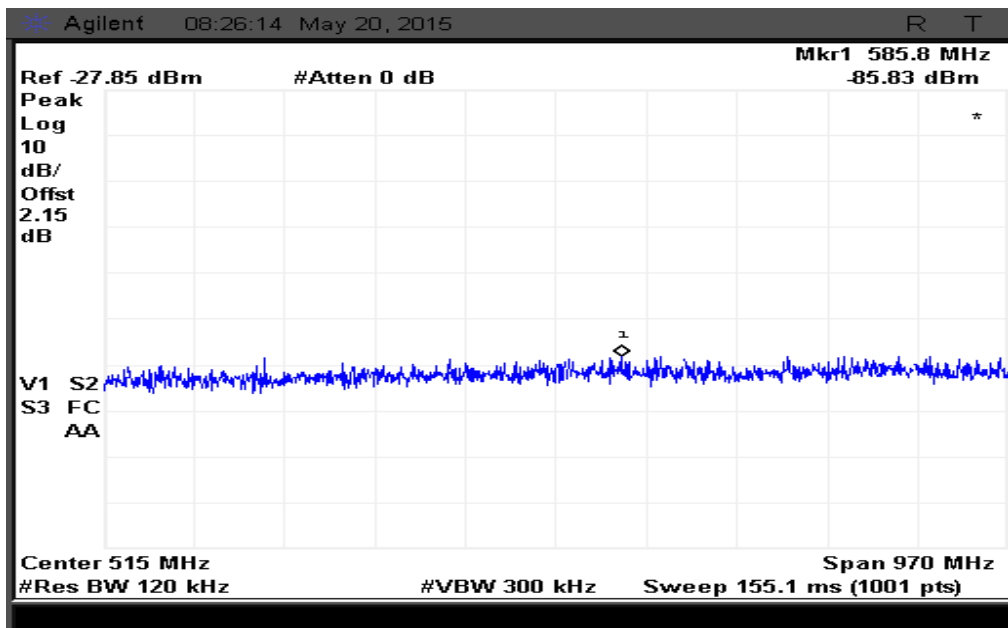


Figure 266: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

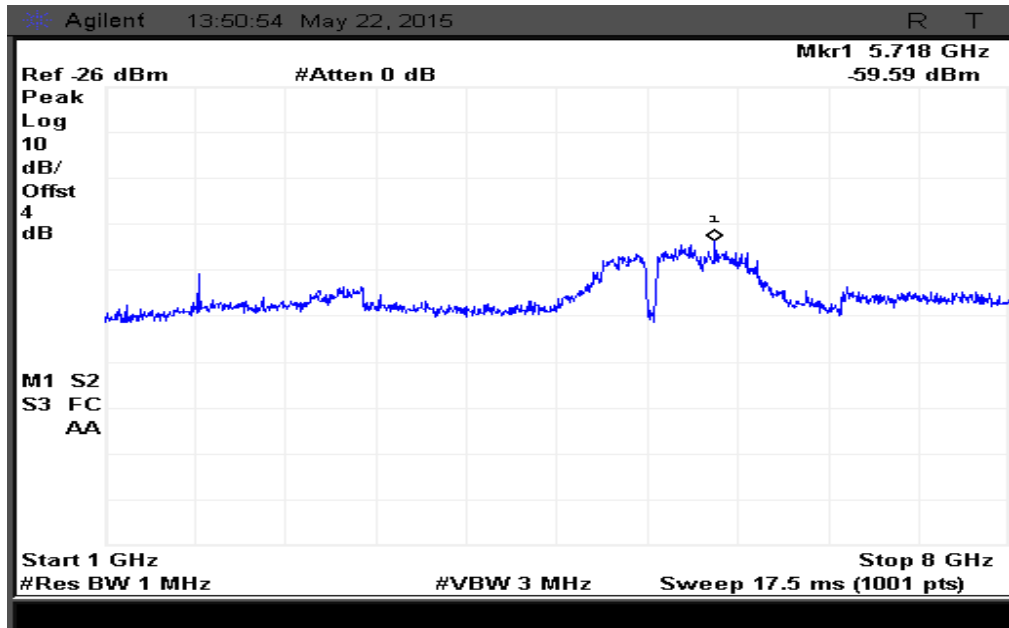


Figure 267: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

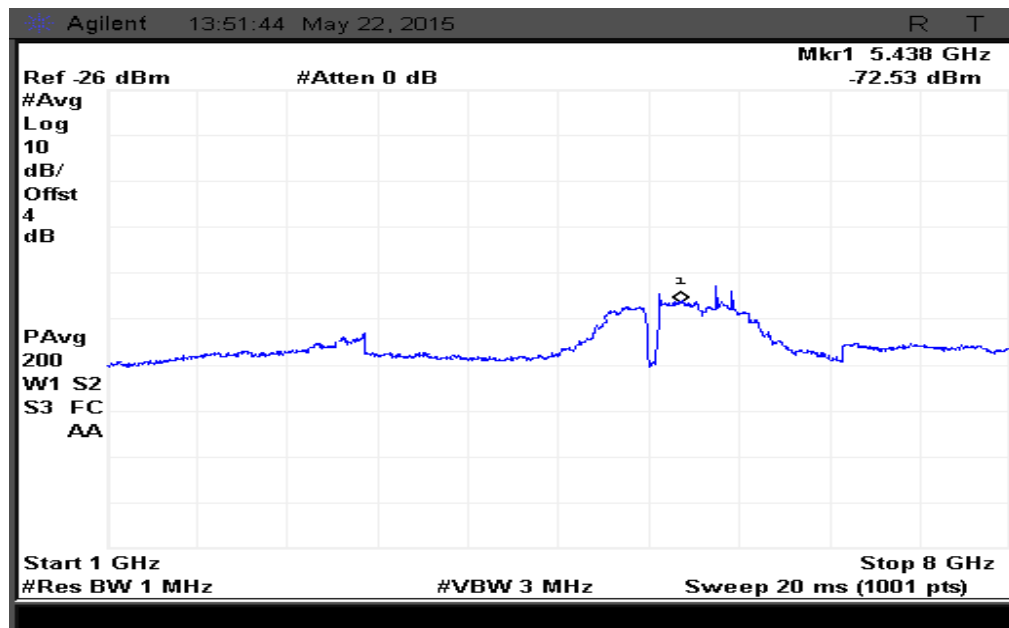


Figure 268: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

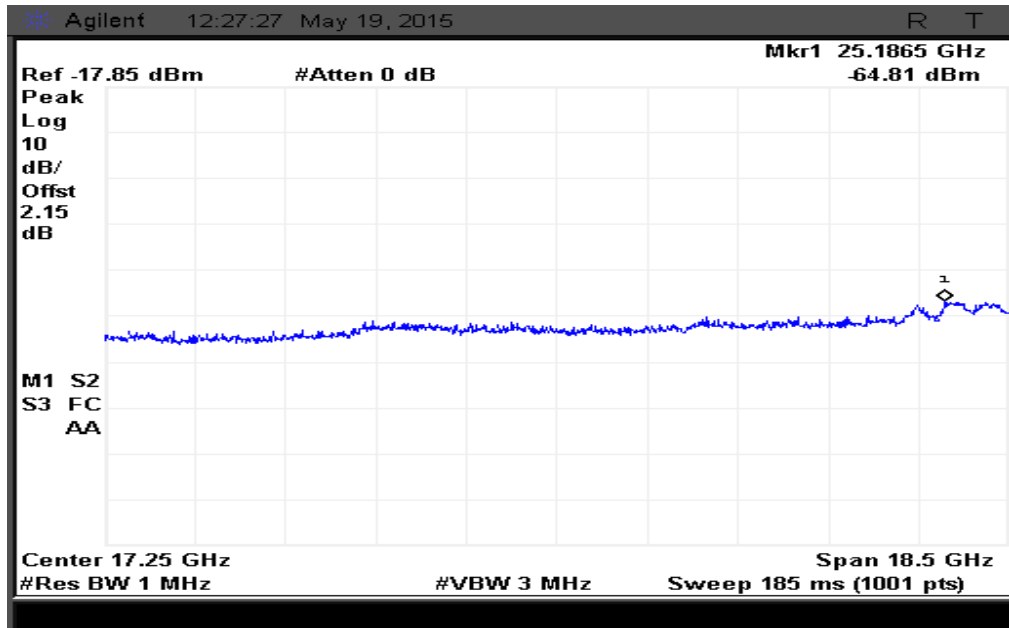


Figure 269: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

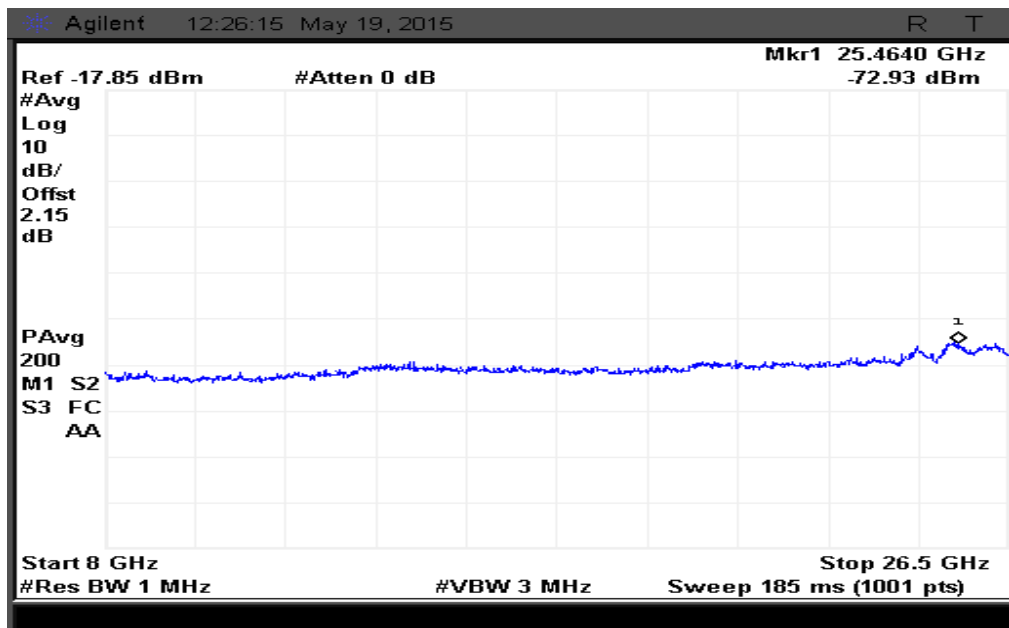


Figure 270: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

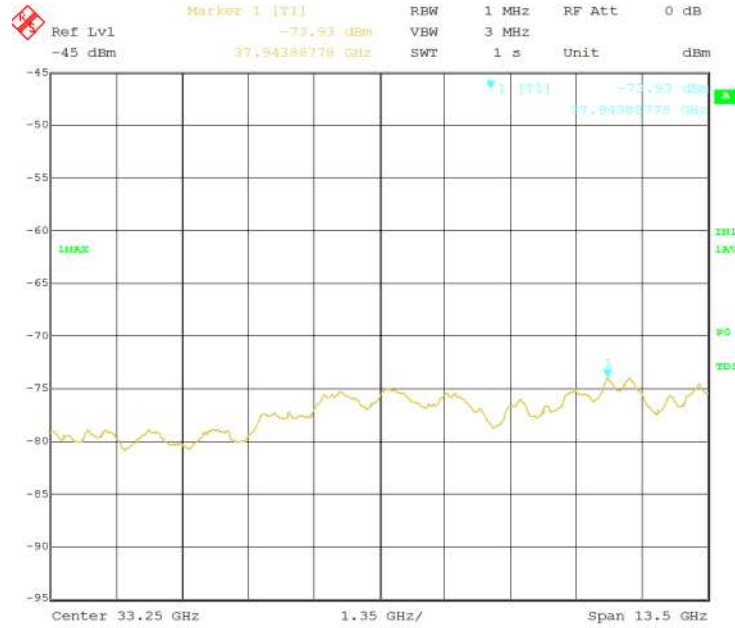


Figure 271: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

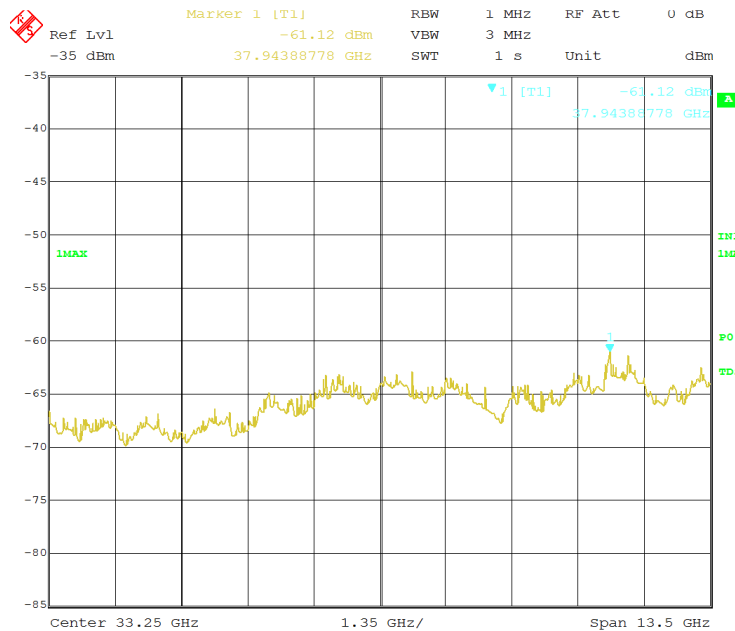


Figure 272: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.7.4 5MHz MODULATION BW - LOW CHANNEL_5155 MHz

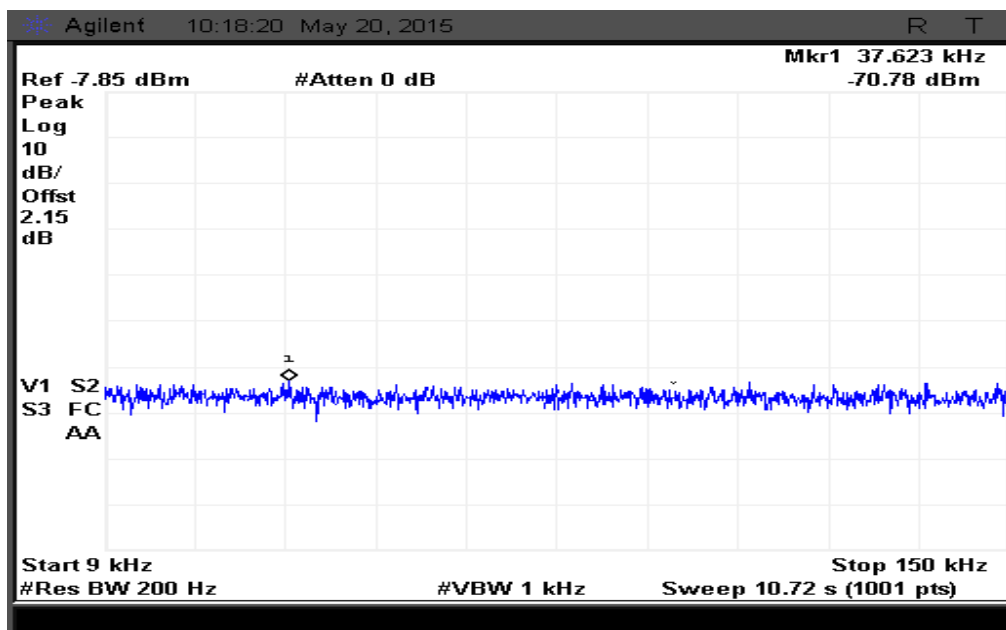


Figure 273: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

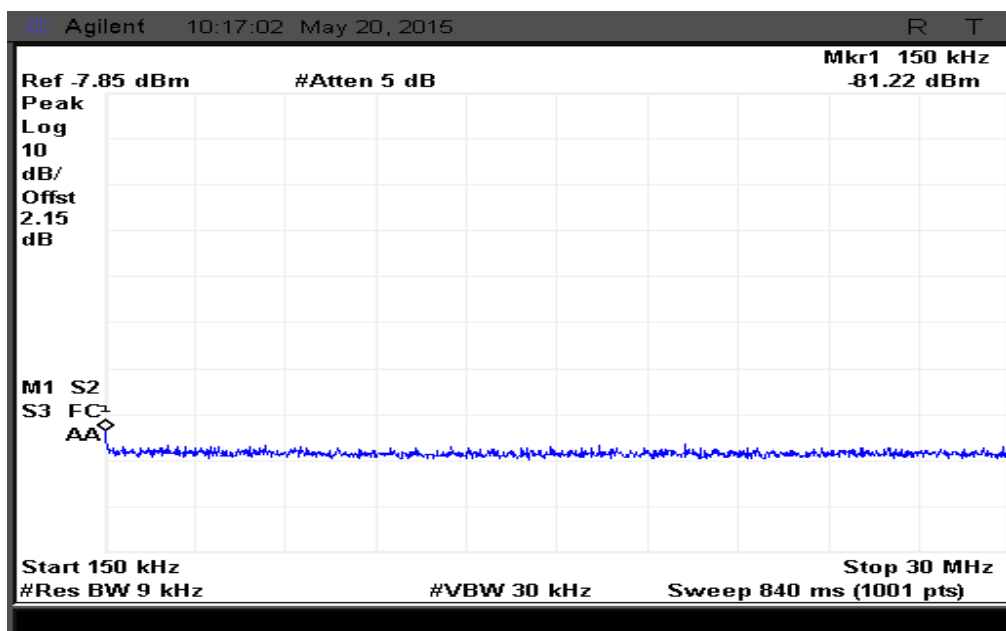


Figure 274: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

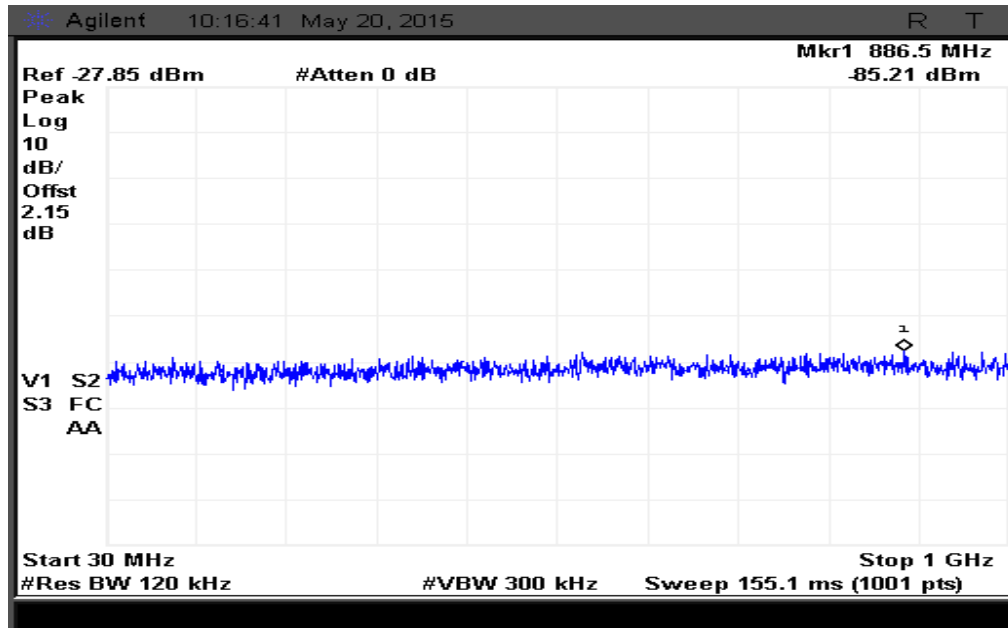


Figure 275: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

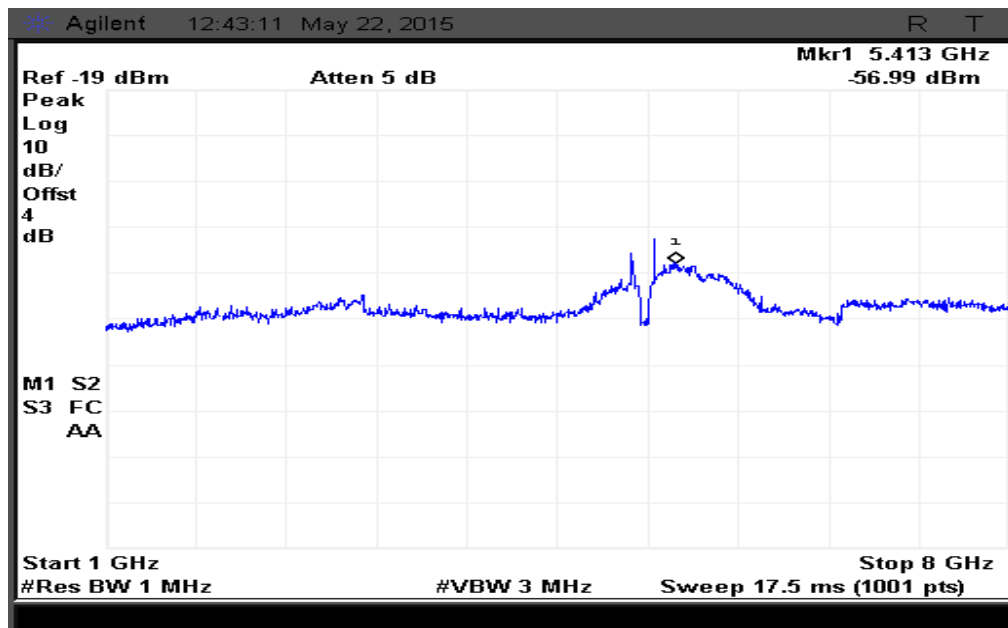


Figure 276: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

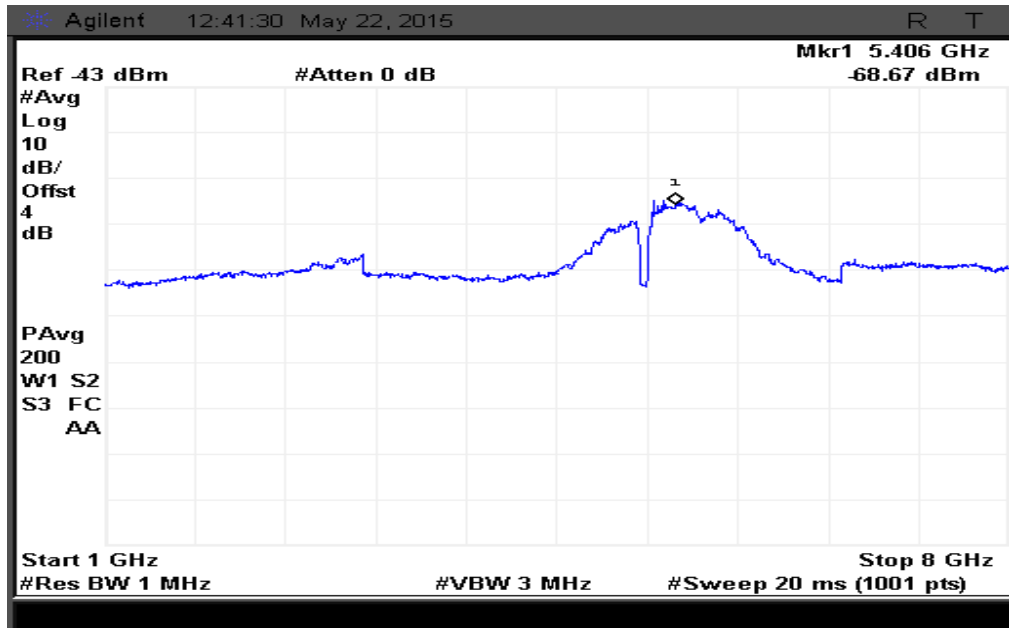


Figure 277: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

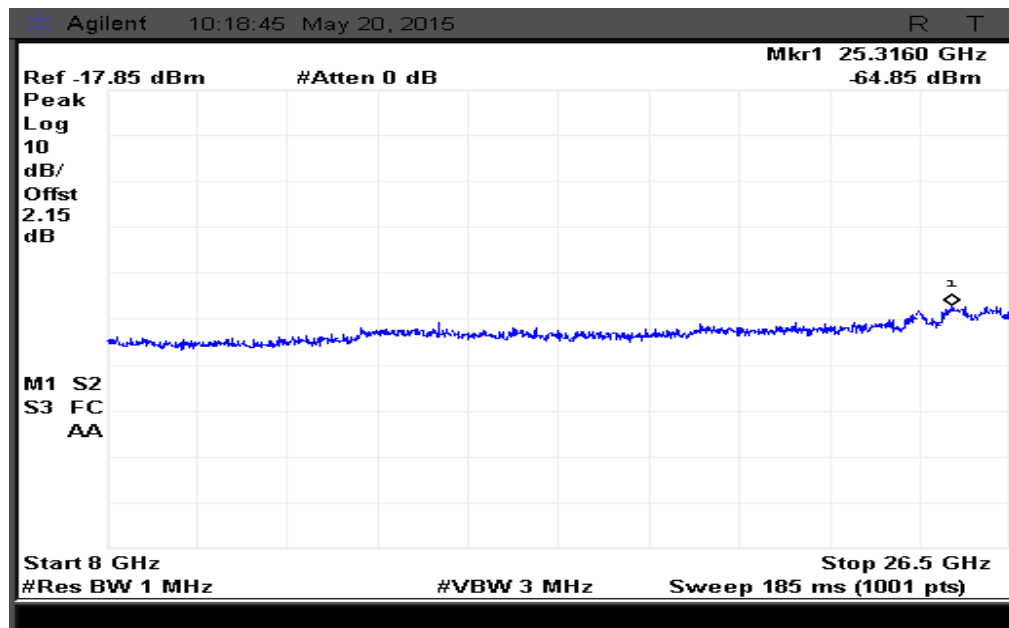


Figure 278: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

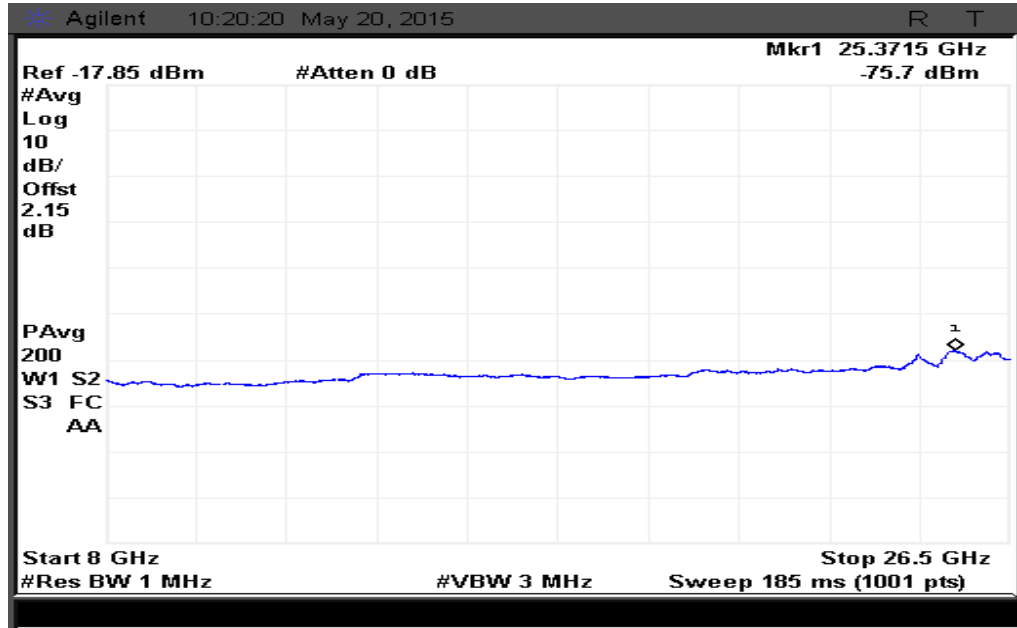


Figure 279: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

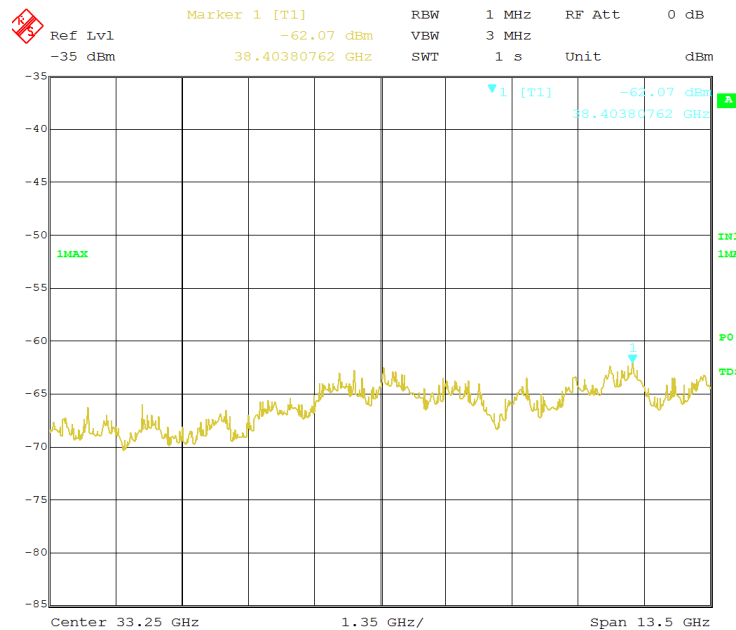


Figure 280: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

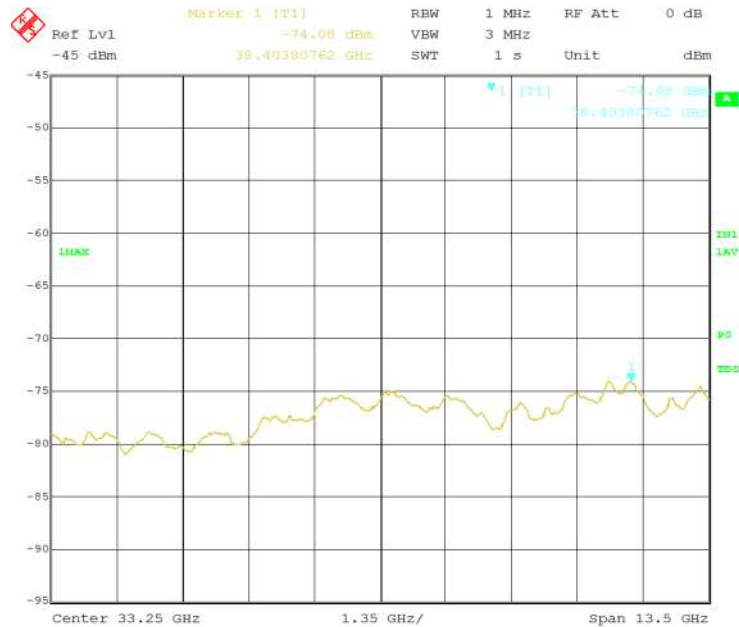


Figure 281: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

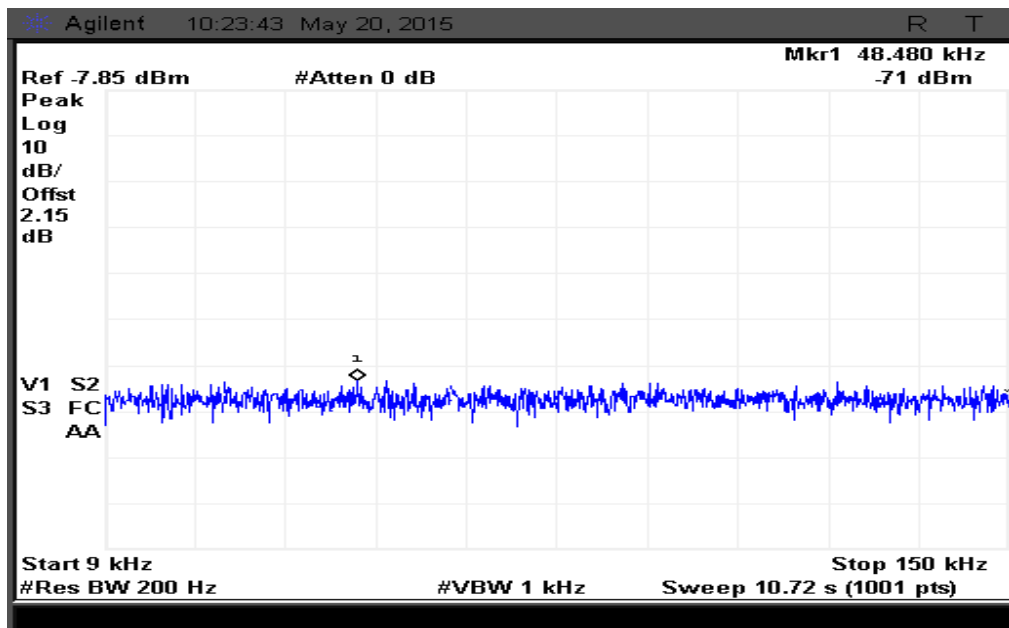


Figure 282: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

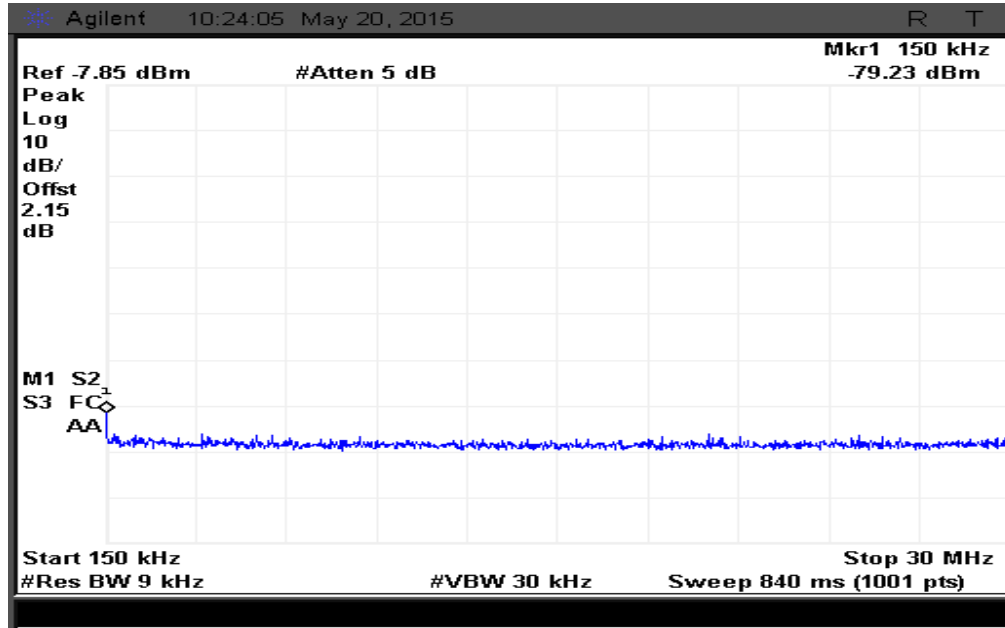


Figure 283: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

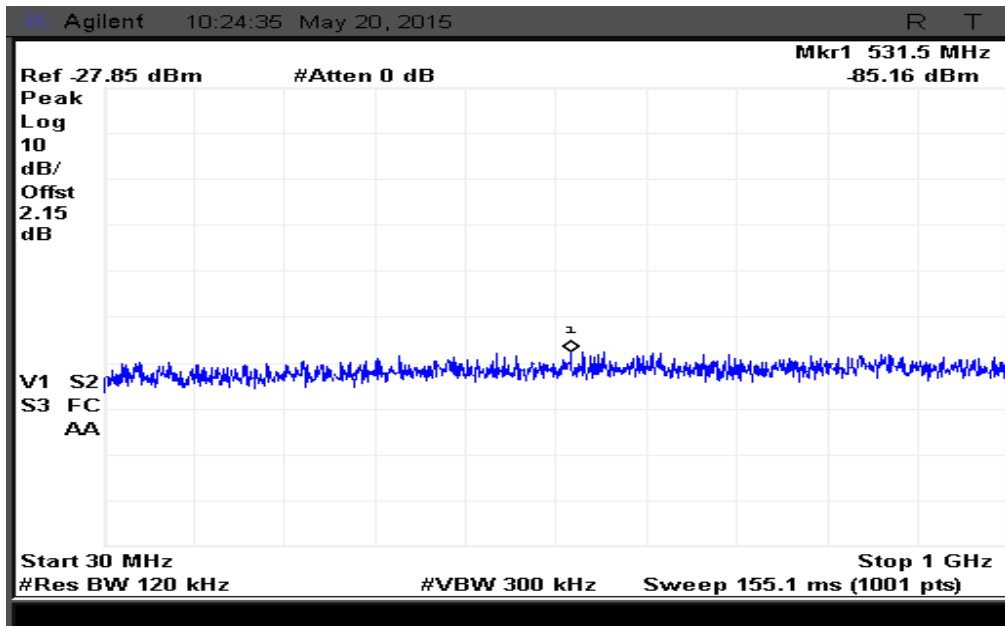


Figure 284: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

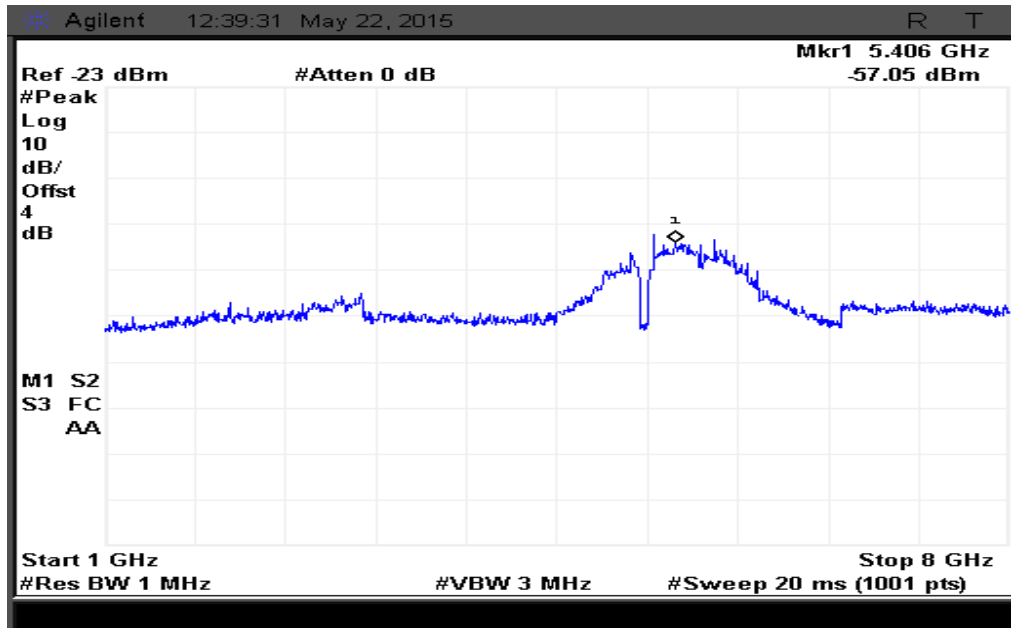


Figure 285: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

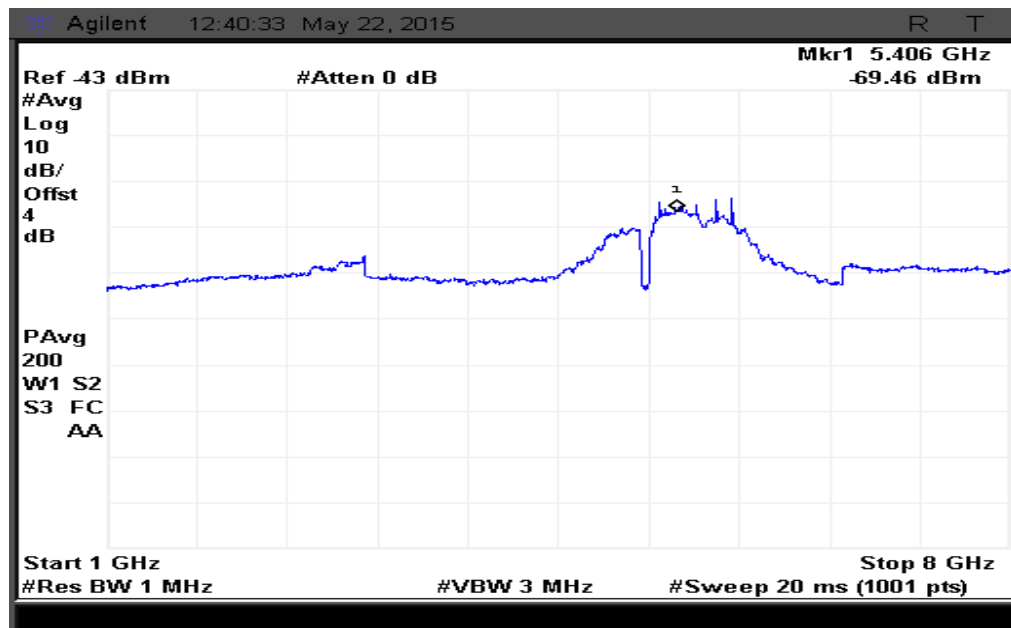


Figure 286: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

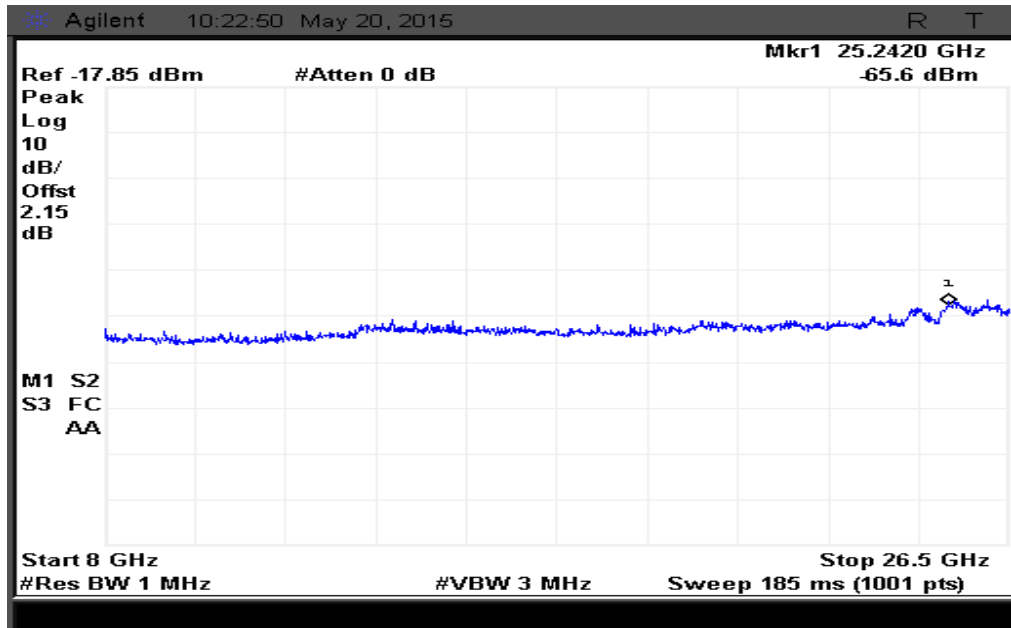


Figure 287: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

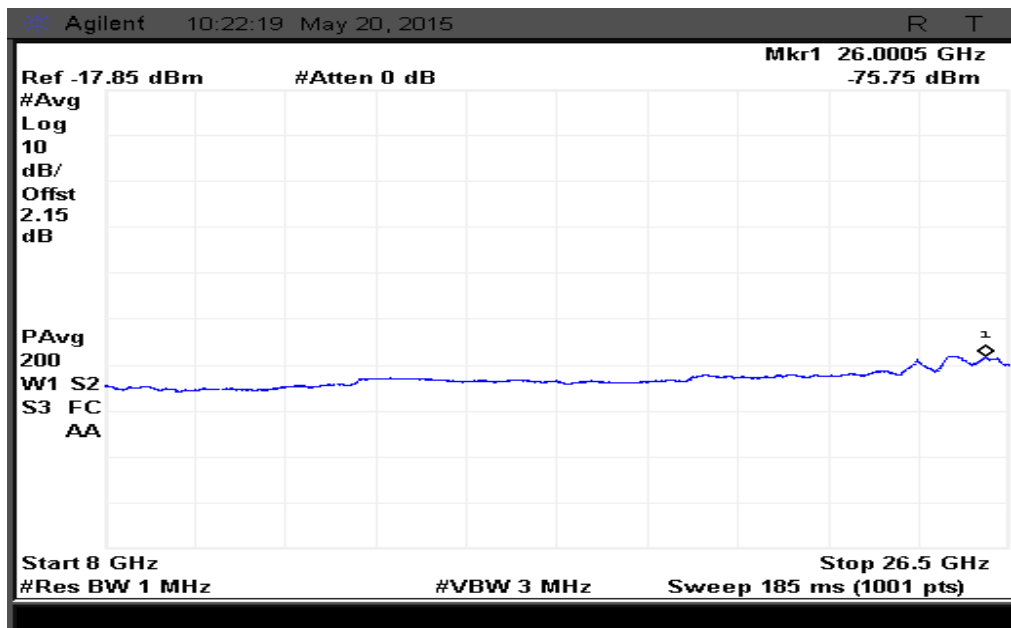


Figure 288: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

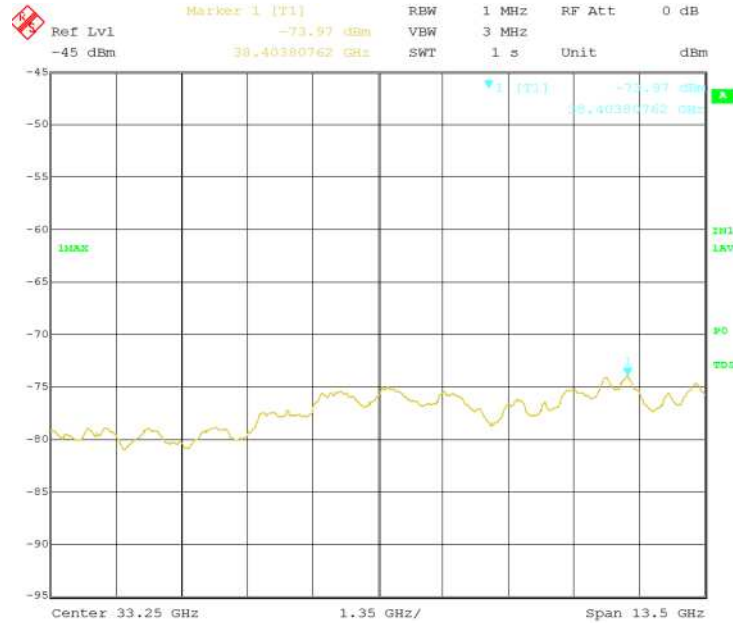


Figure 289: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

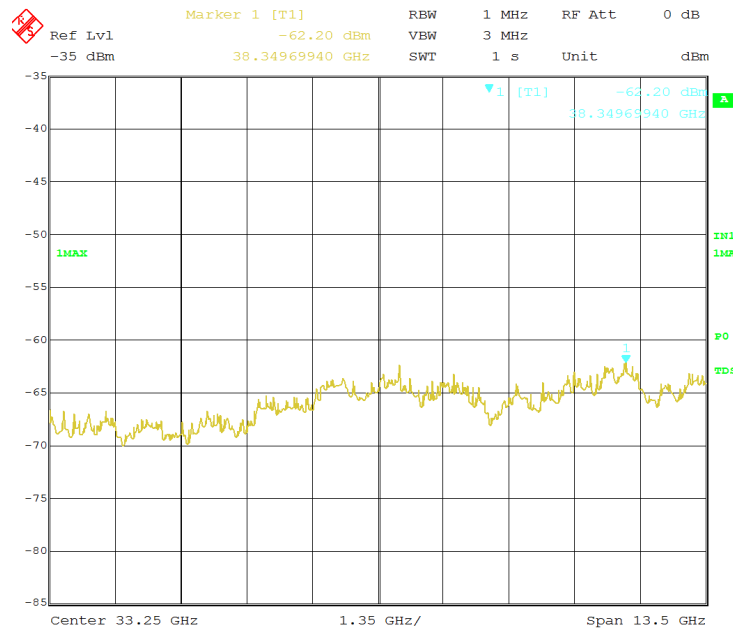


Figure 290: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.7.5 5MHz MODULATION BW - MID CHANNEL_5200 MHz

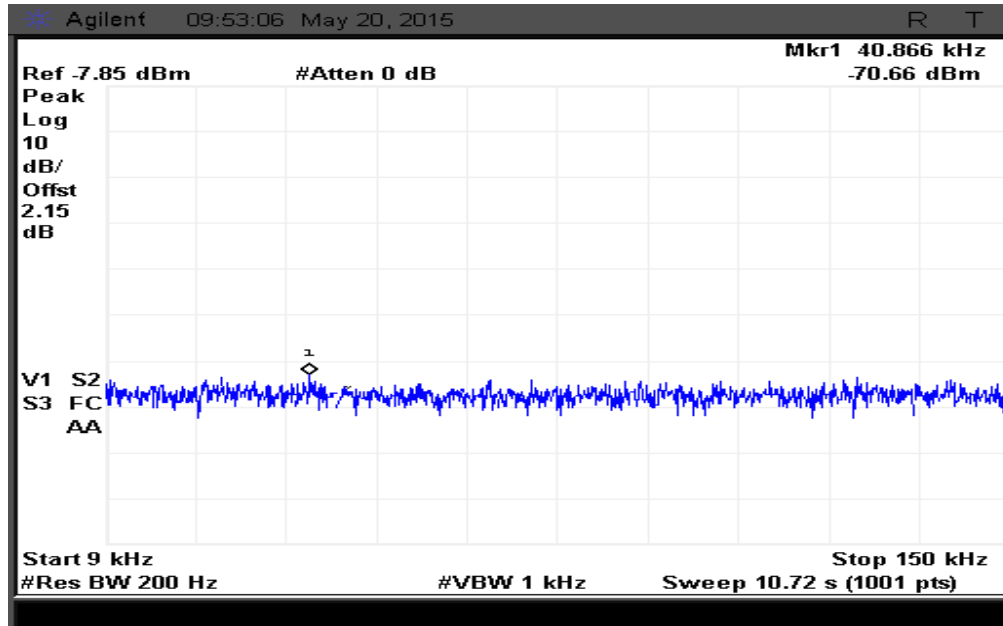


Figure 291: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

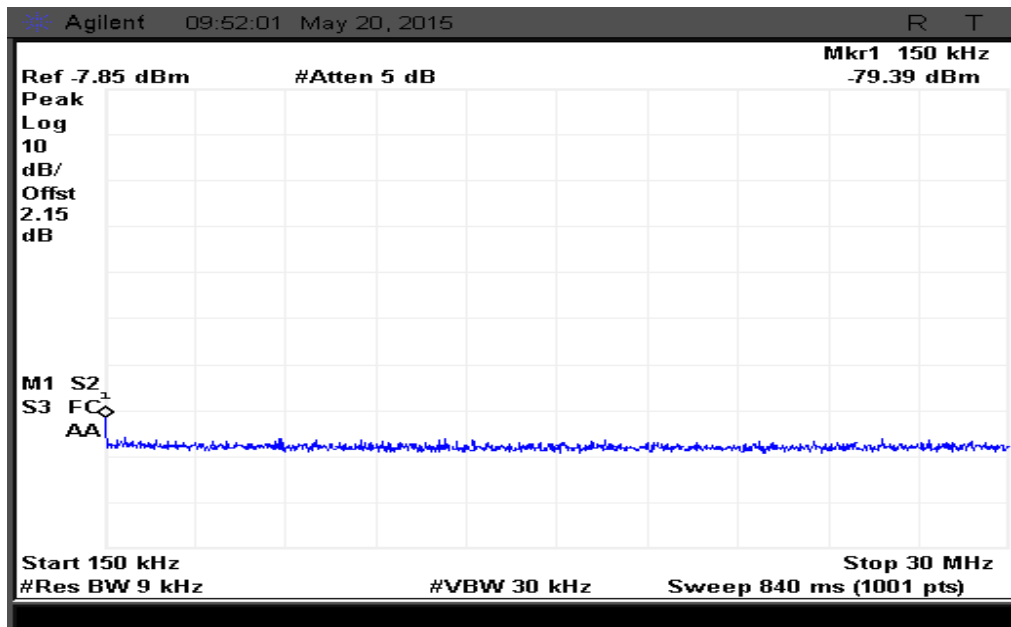


Figure 292: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

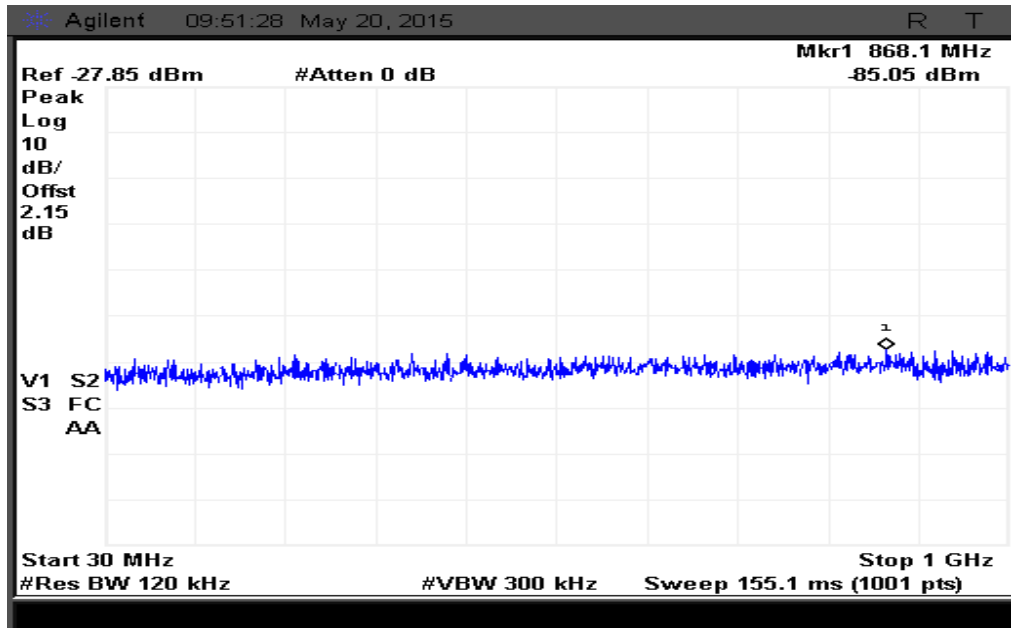


Figure 293: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

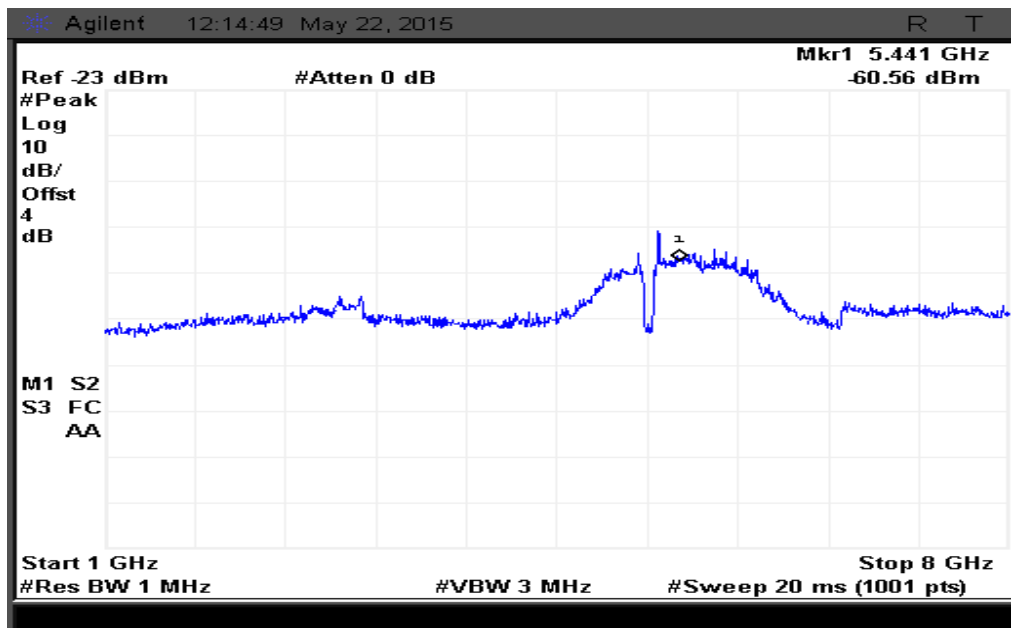


Figure 294: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

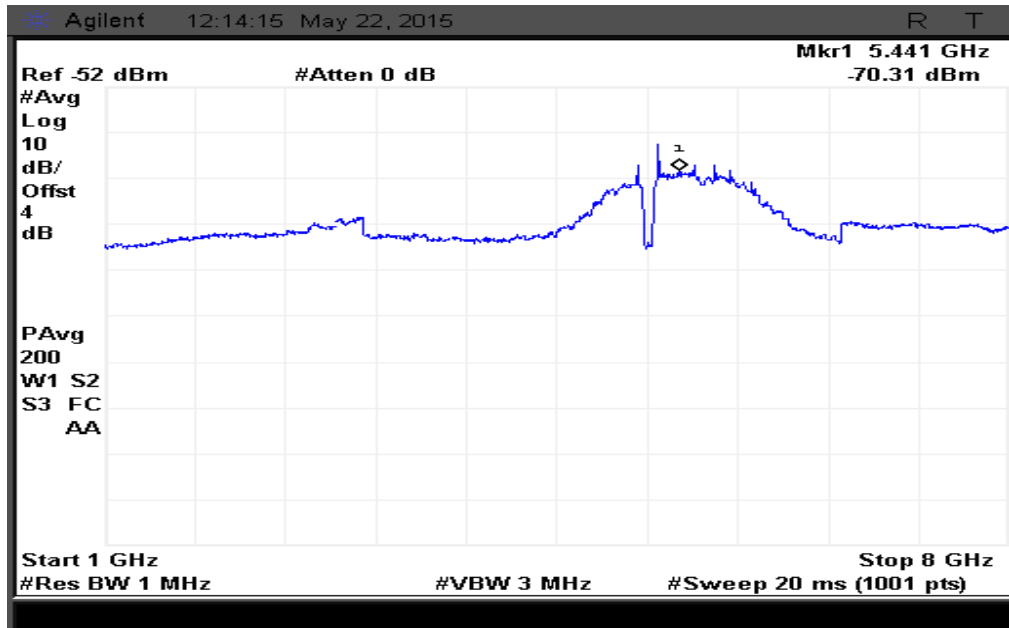


Figure 295: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

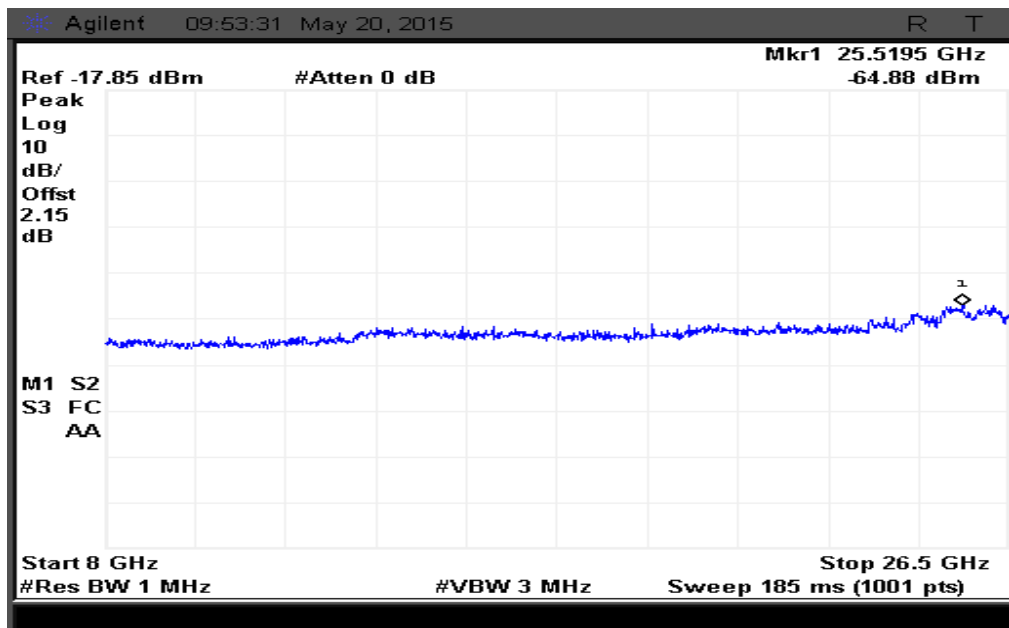


Figure 296: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

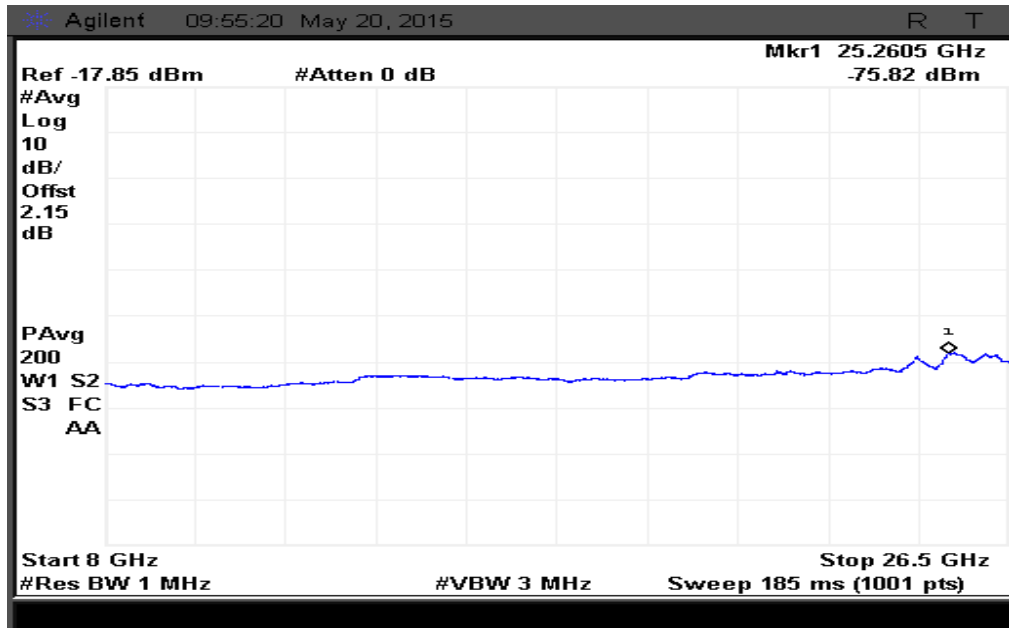


Figure 297: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

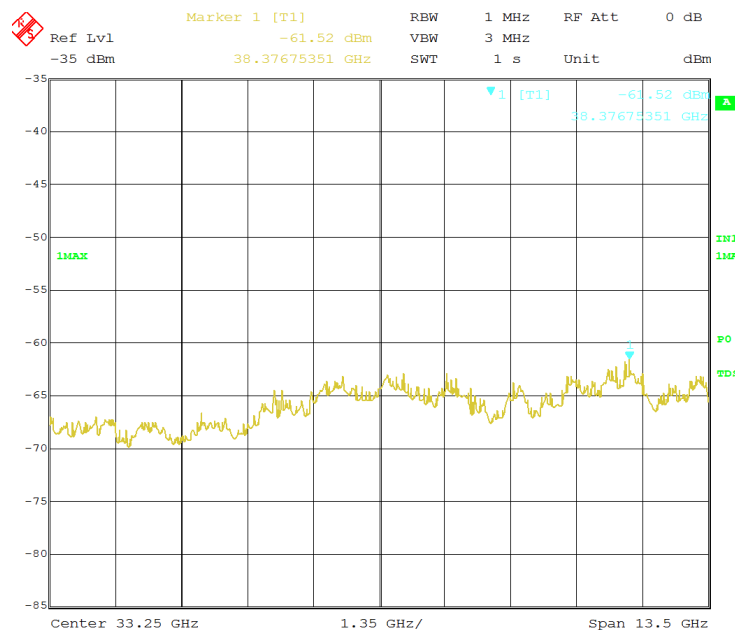


Figure 298: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

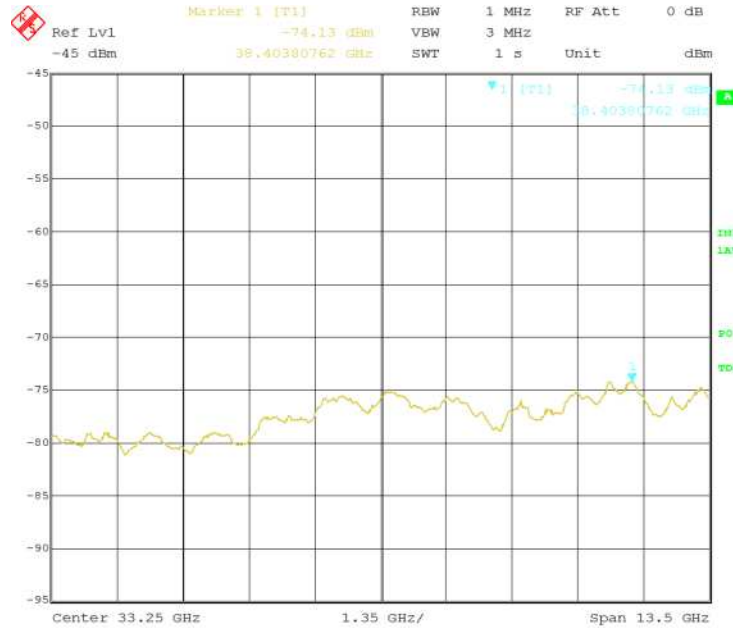


Figure 299: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

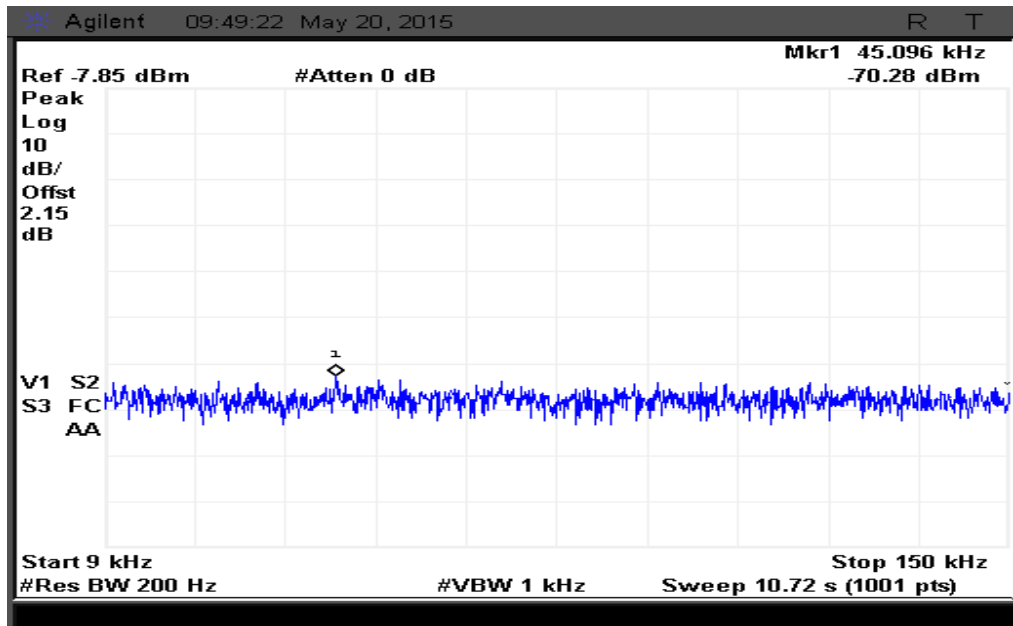


Figure 300: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

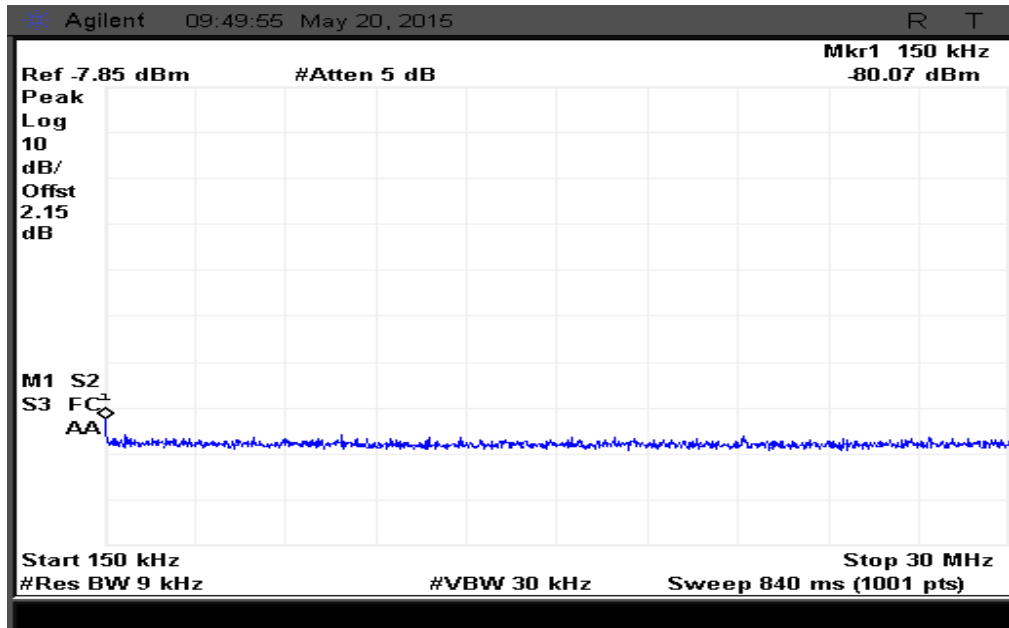


Figure 301: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

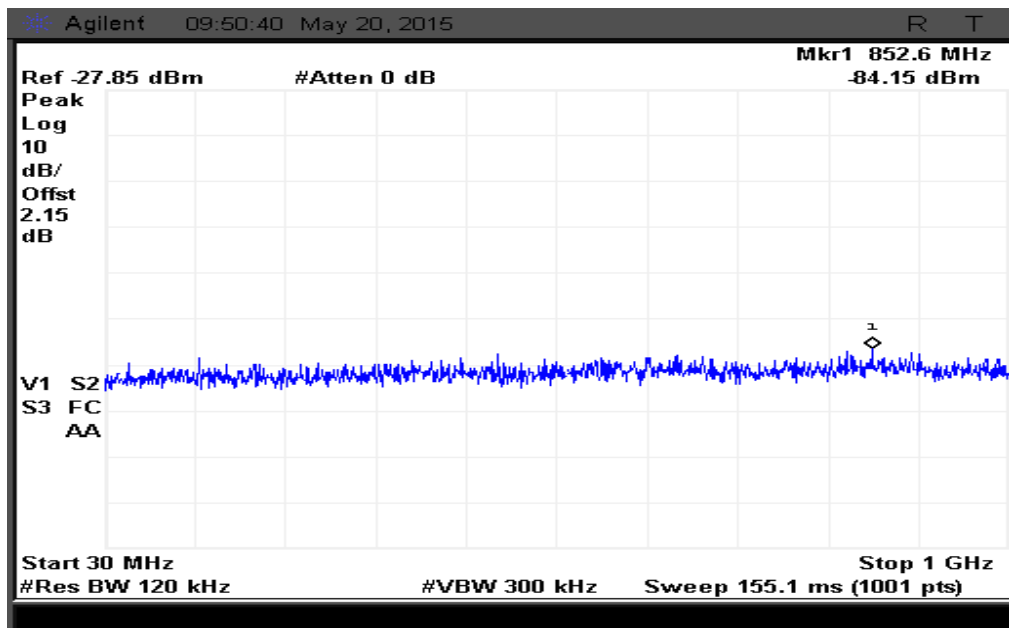


Figure 302: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

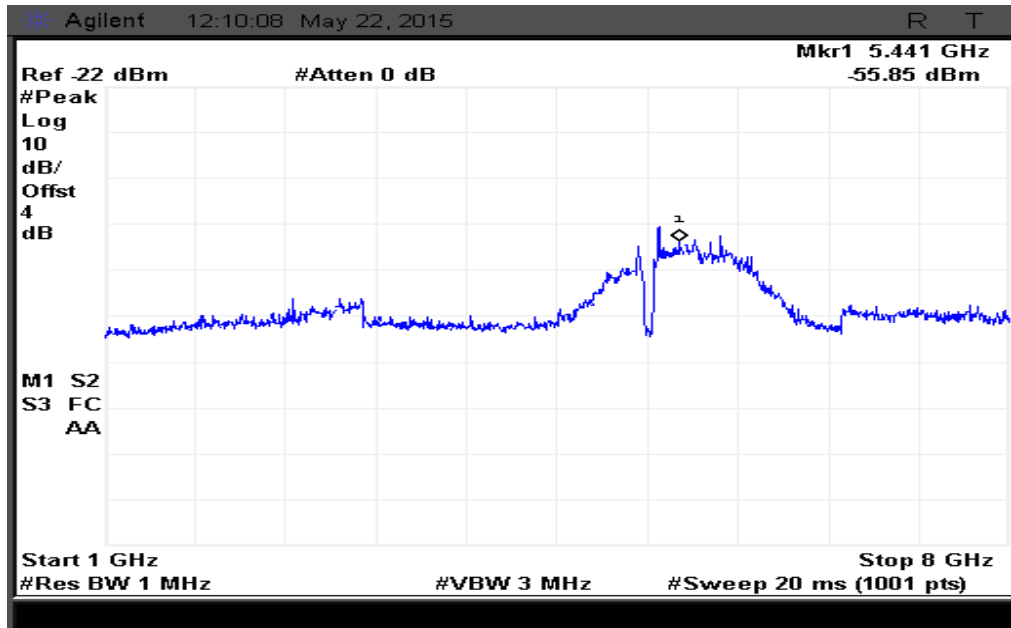


Figure 303: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

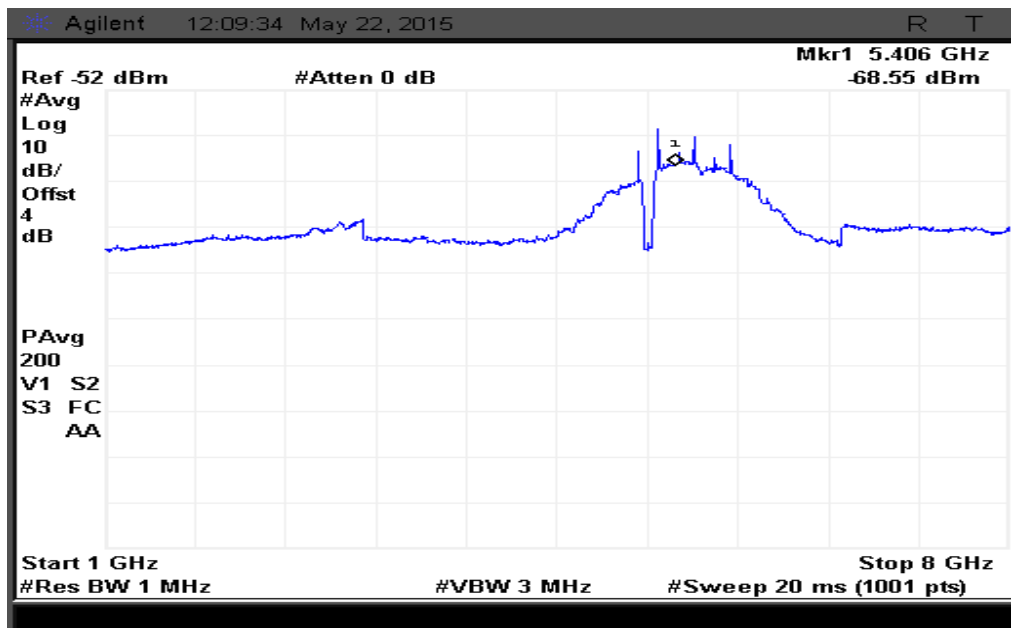


Figure 304: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

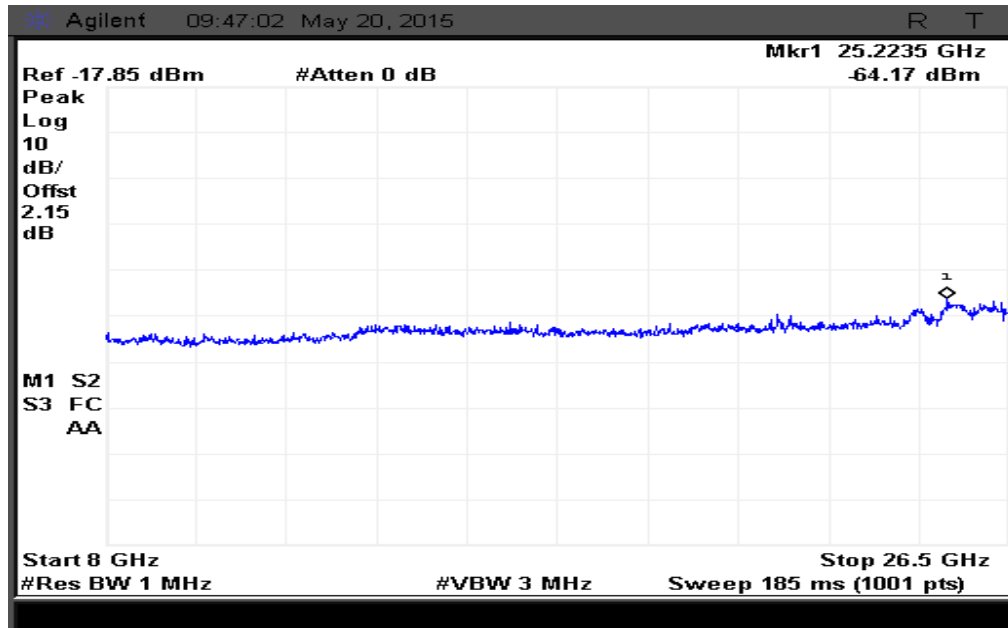


Figure 305: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

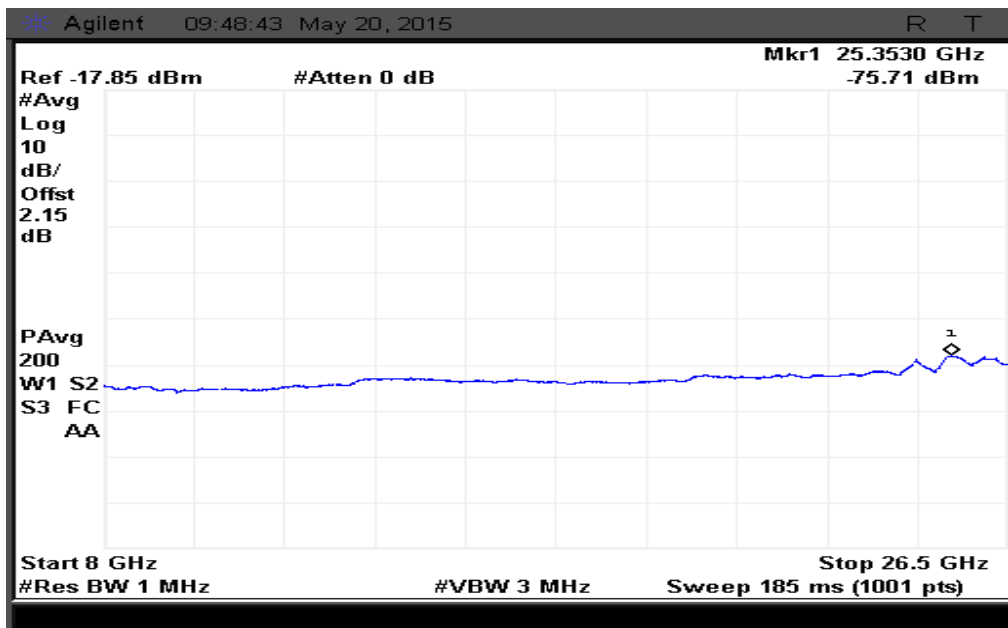


Figure 306: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

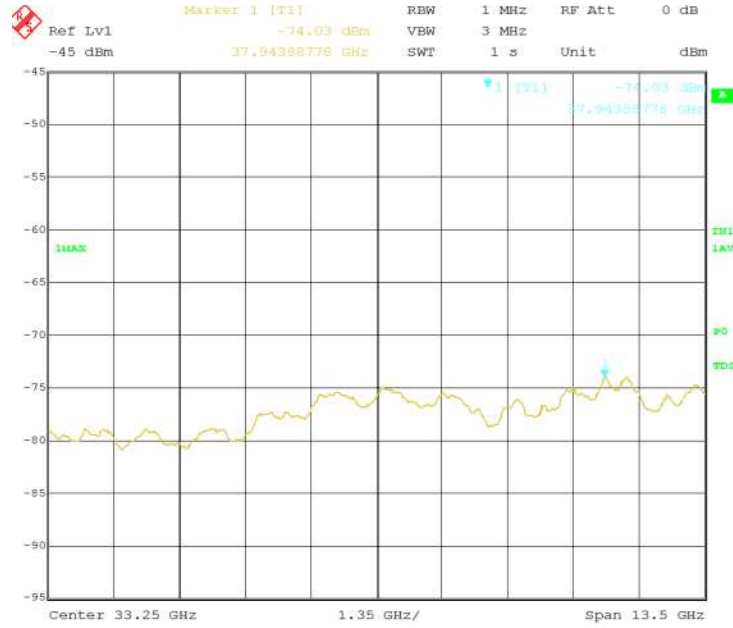


Figure 307: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

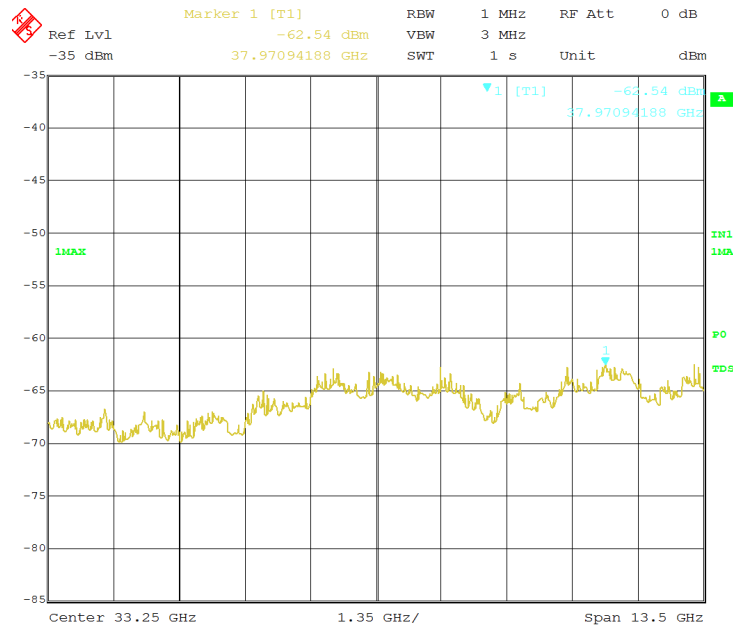


Figure 308: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.7.6 5MHz MODULATION BW - HIGH CHANNEL_5245 MHz

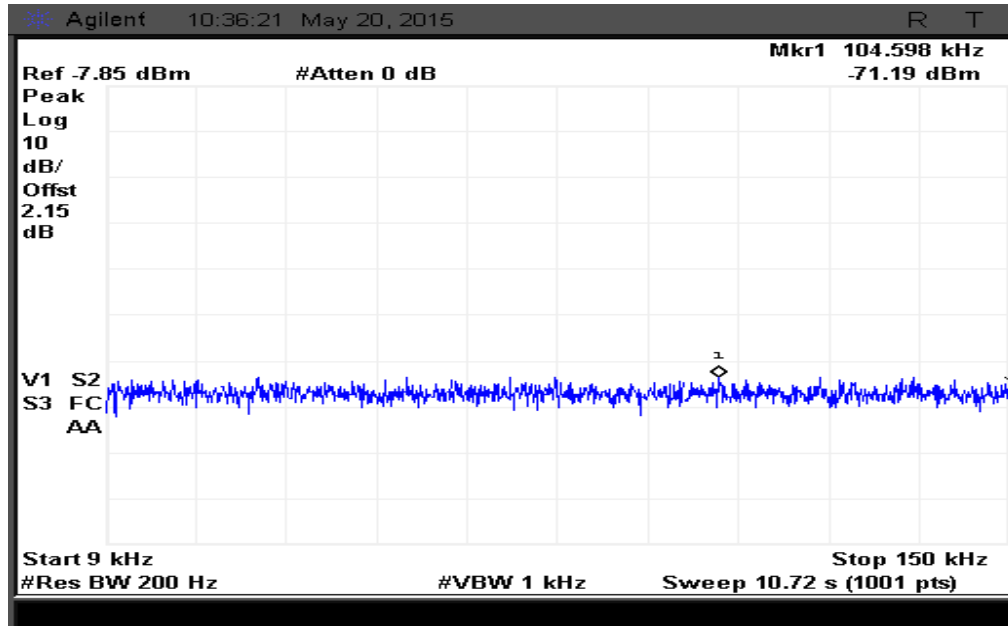


Figure 309: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

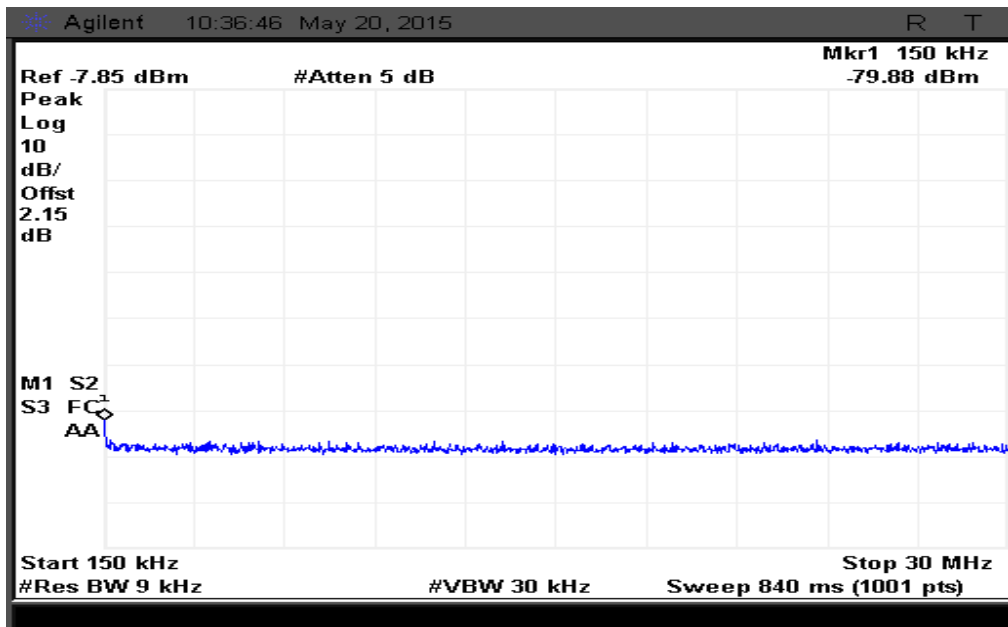


Figure 310: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

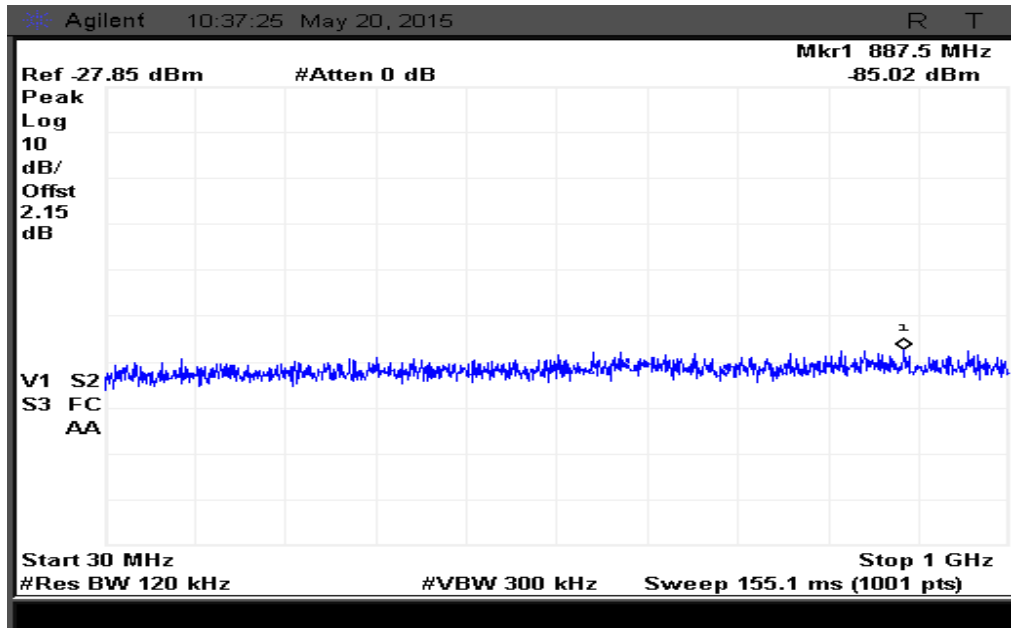


Figure 311: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

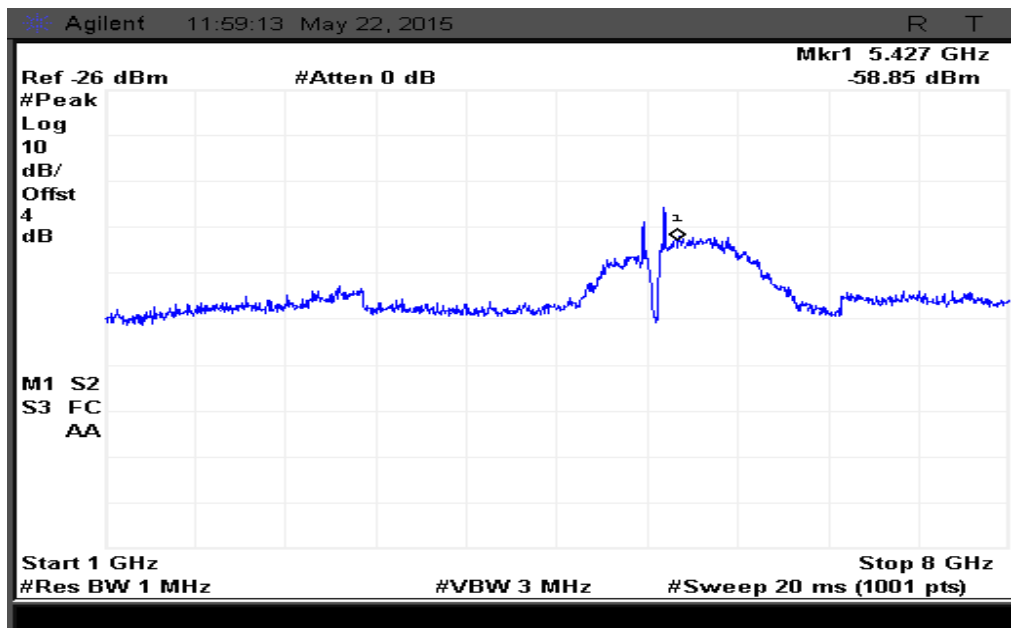


Figure 312: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

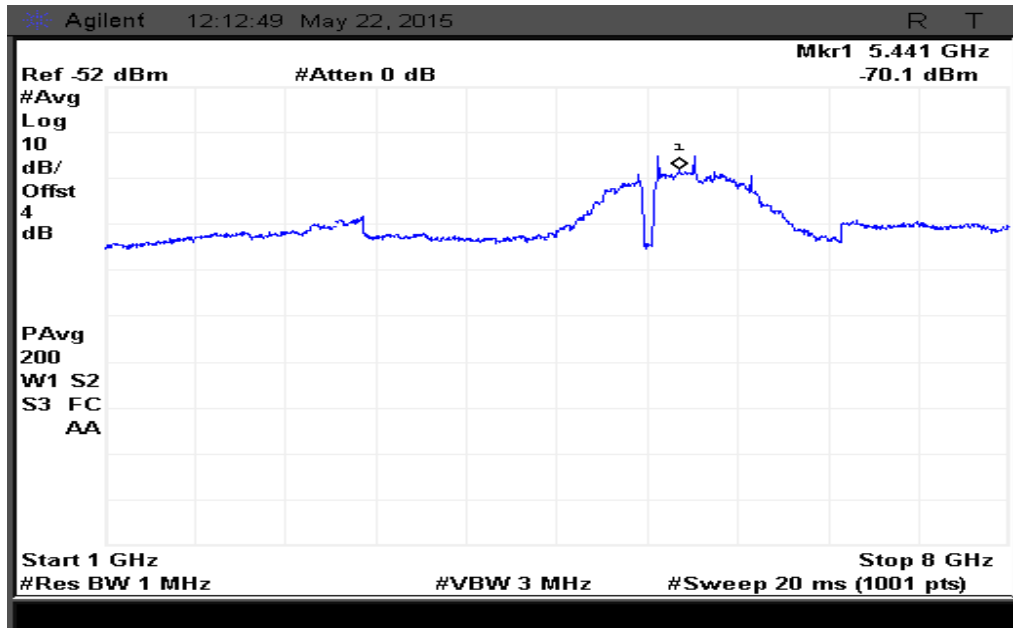


Figure 313: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

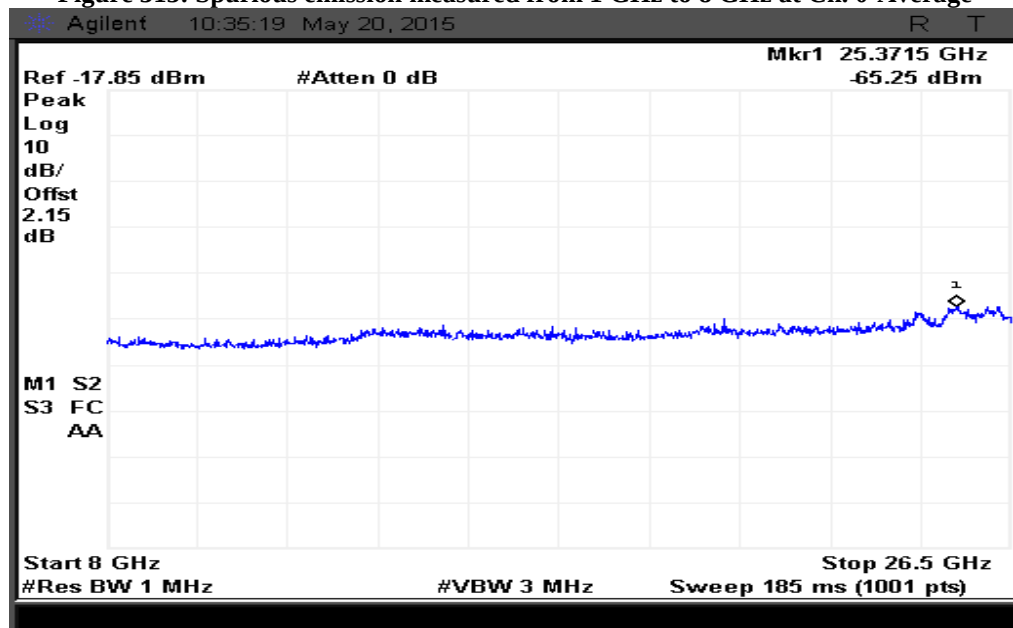


Figure 314: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

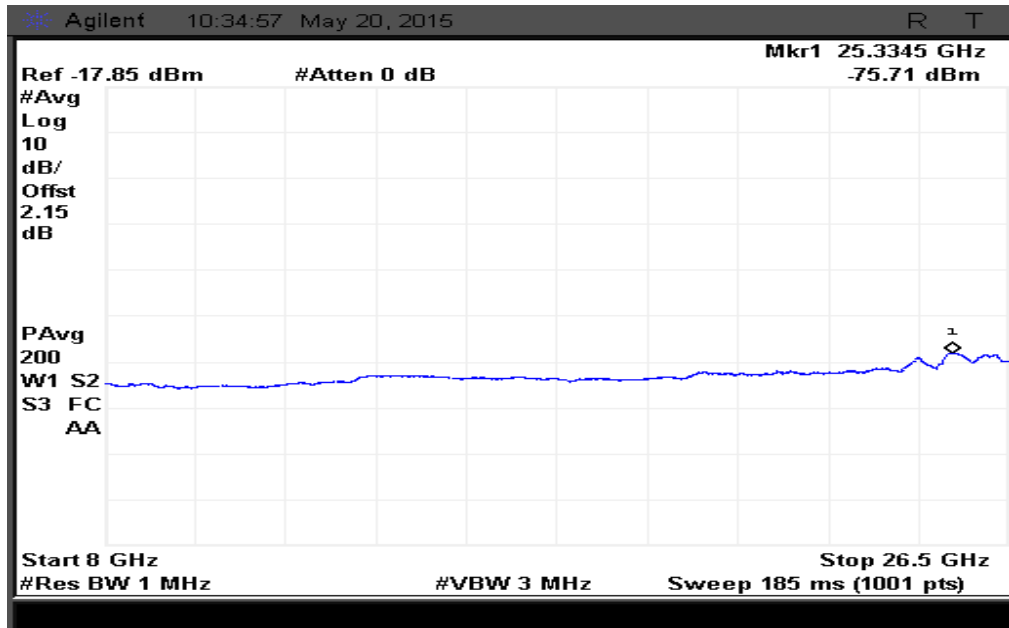


Figure 315: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

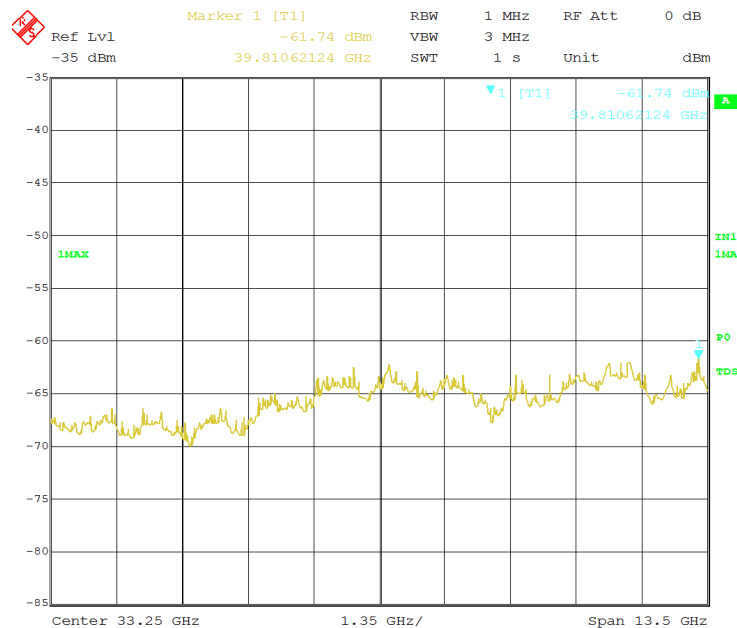


Figure 316: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

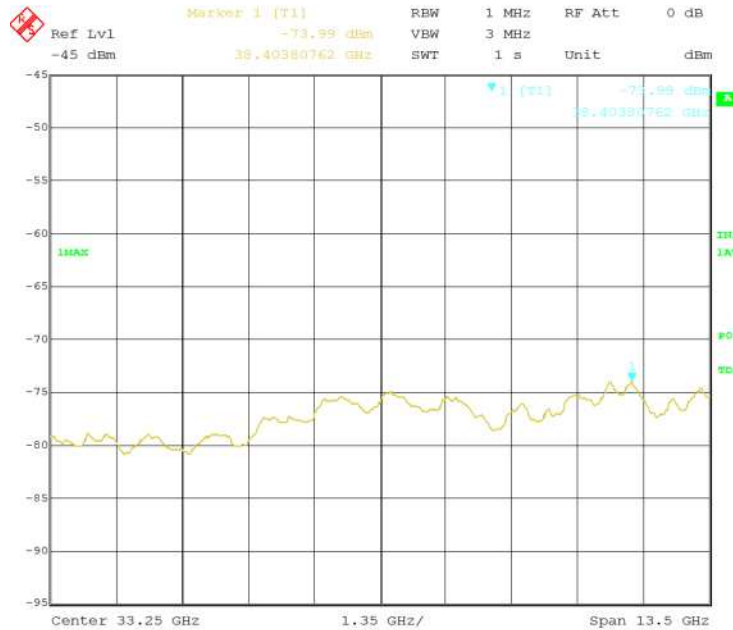


Figure 317: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

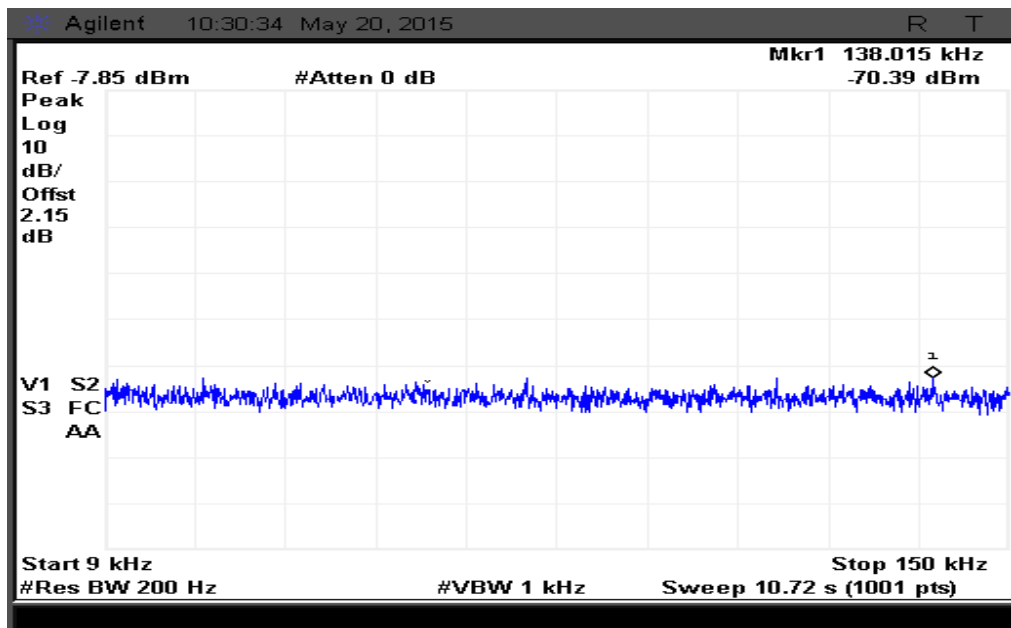


Figure 318: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

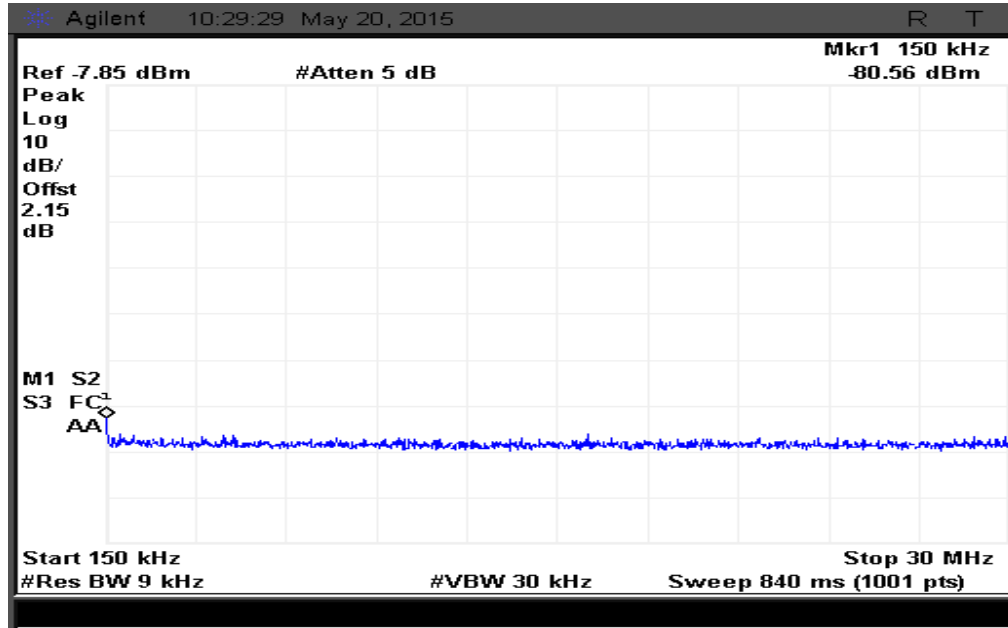


Figure 319: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

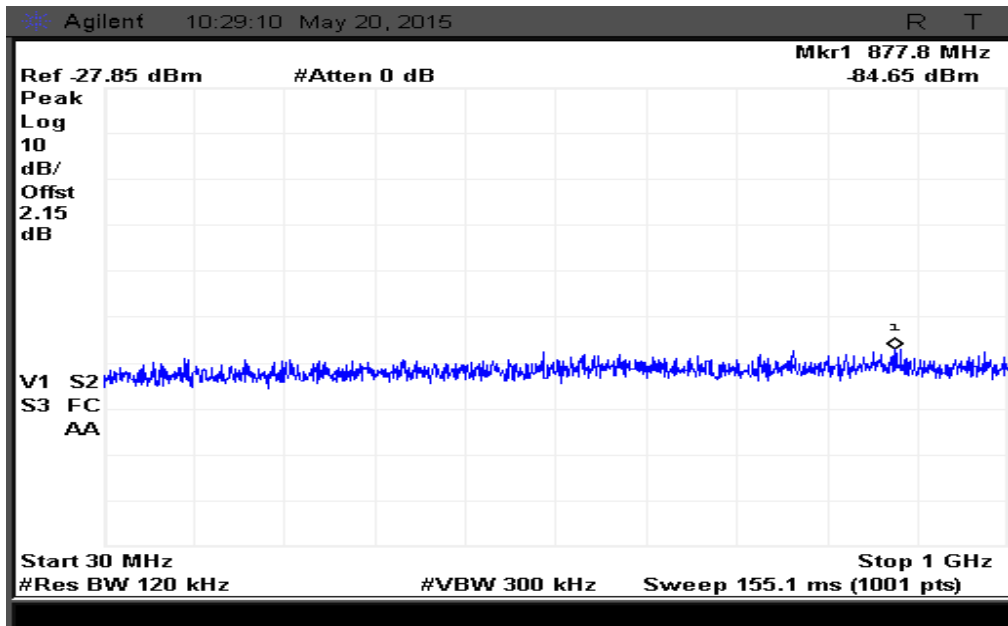


Figure 320: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

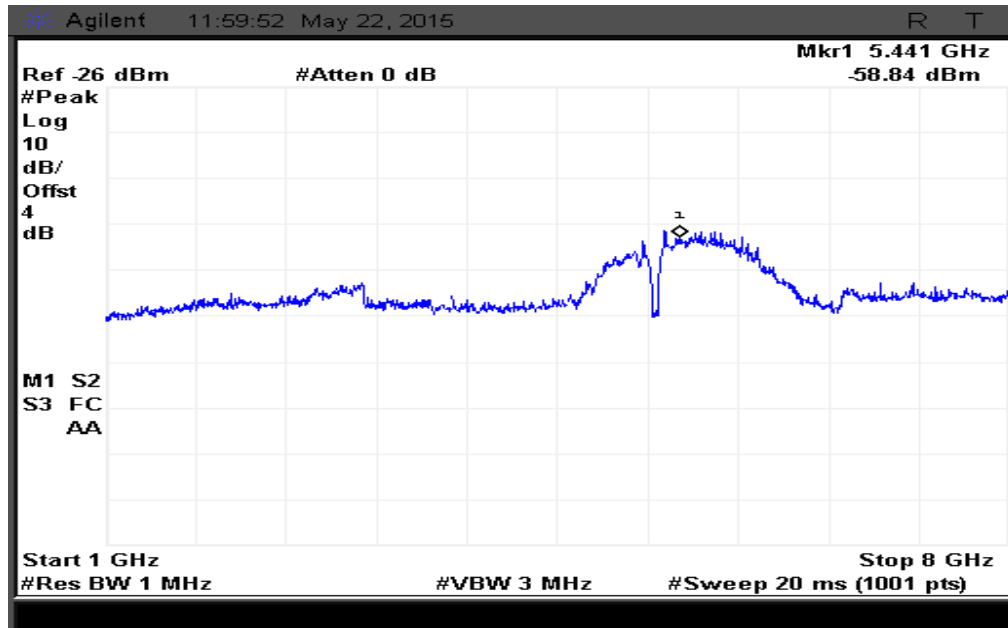


Figure 321: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

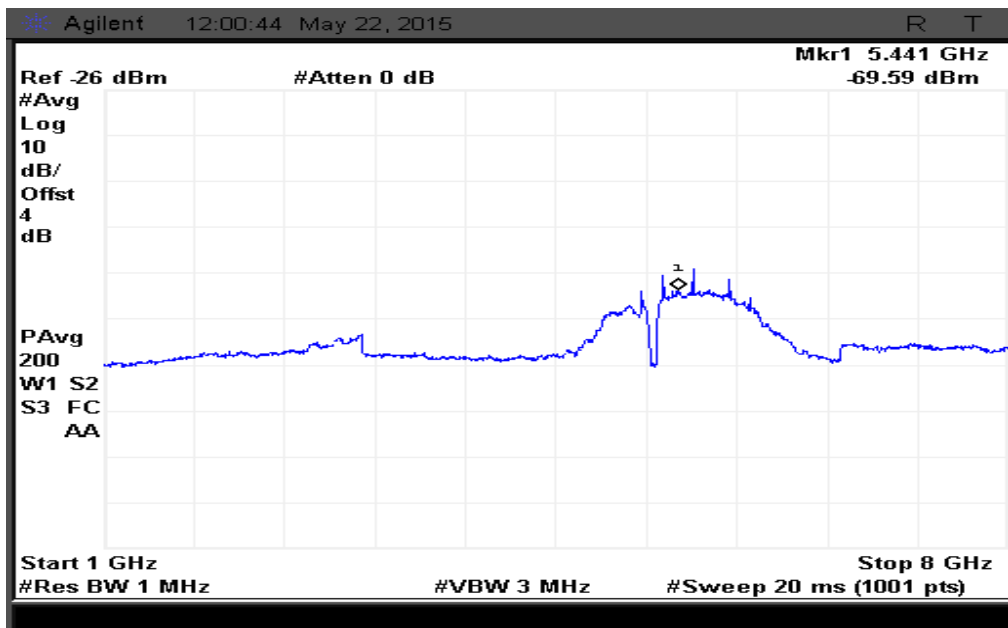


Figure 322: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

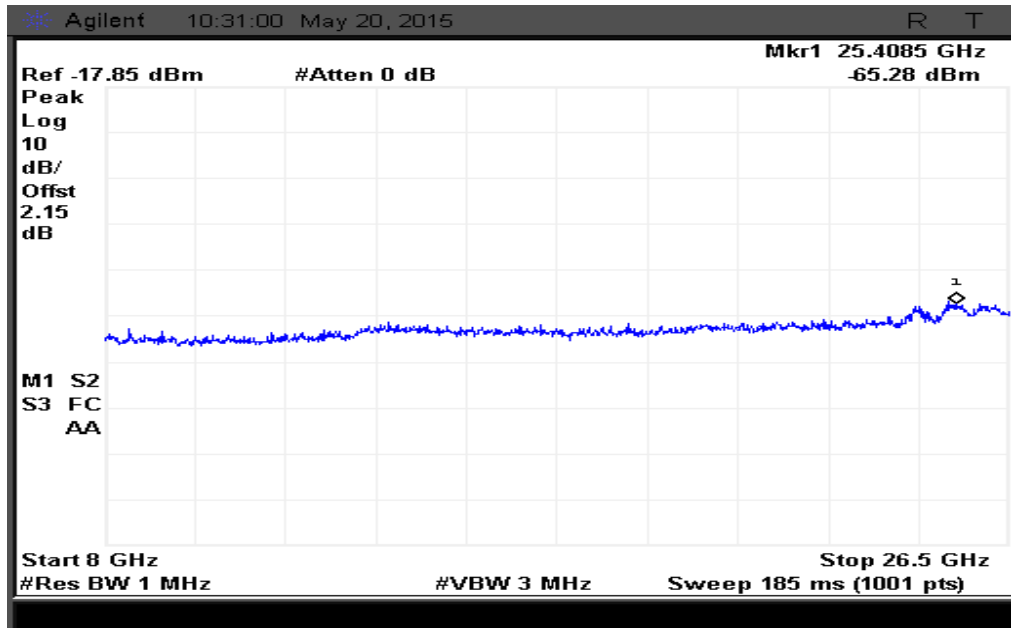


Figure 323: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

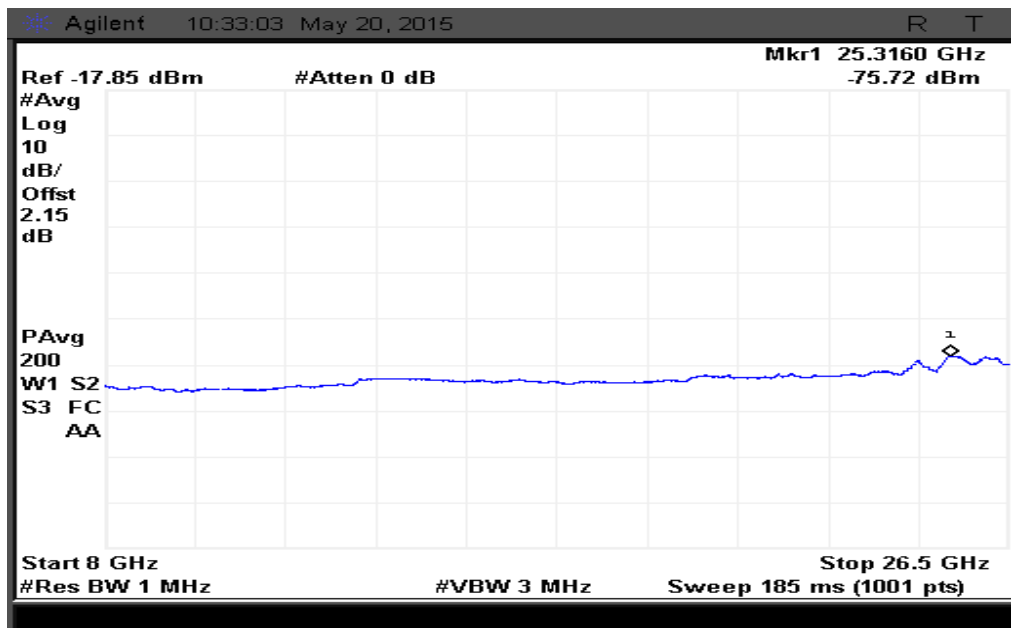


Figure 324: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

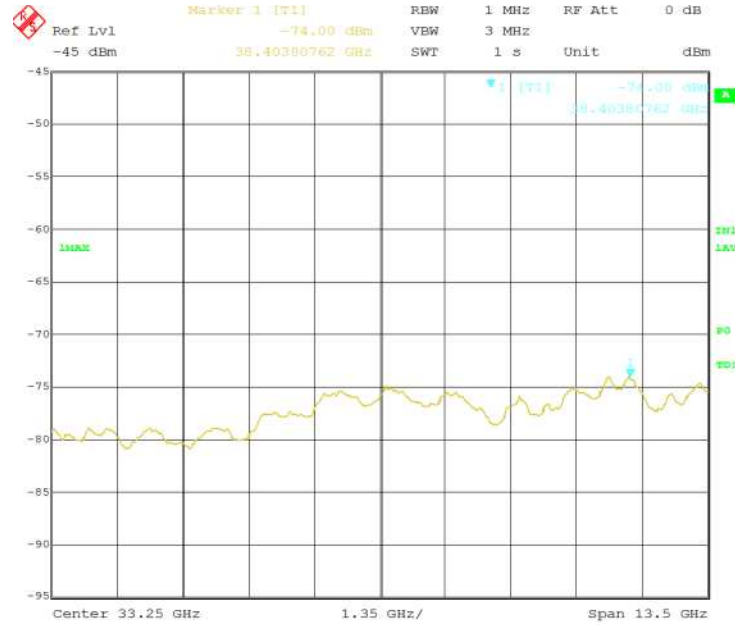


Figure 325: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

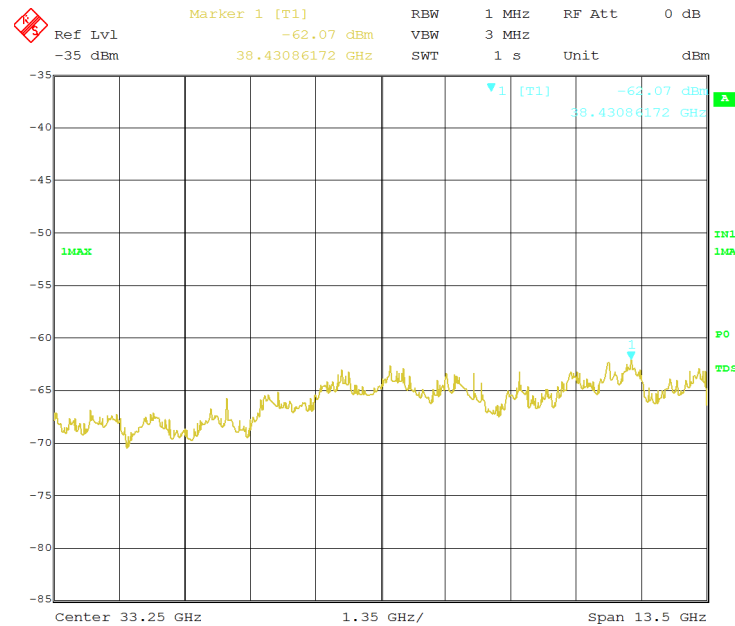


Figure 326: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.1.8 RESULT

Emission is below EIRP limit in all channels for both 40MHz & 5MHz Modulation Bandwidths.



APPENDIX I – ACRONYMS

dB μ V	Decibel micro Volts
dBm	Power in dB with reference to 1mW
EUT	Equipment Under Test
FCC	Federal Communications Commission
GHz	Giga Hertz
kHz	Kilo Hertz
LISN	Line Impedance Stabilization Network
MHz	Mega Hertz
QP	Quasi Peak

END OF REPORT