EMC TEST REPORT	
TEST REPORT NUMBER	DOJ 1513TEL708-A2
TEST REPORT DATE	08th May 2015
TEST REPORT VERSION	1.0
MANUFACTURER	Gemtek Electronics (ChangSHU) Co.
PRODUCT NAME	5GHz ePMP Integrated Radio and 5GHz ePMPConnectorized Radio
PRODUCT MODEL NO.	C058900P072A, C058900C072A, C058900P062A, C058900C062A
PART NO.	142000001193A
REV	0B
CONDITION OF EUT WHEN RECEIVED	GOOD and in working condition
ISSUED TO	3800 Golf Road, Suite 360 Rolling Meadows, IL 60008. USA +1 888-863-5250
ISSUED BY	**TARANG Lab** Wipro Technologies, SJP2, Survey#70,77,78/8A, Dodda Kanelli, Sarjapur road, Bangalore. Karnataka. India - 560 035 Tel: +91-80-30292929Fax: +91-80-30298200 Email: tarang.planet@wipro.com Web: www.wipro.com

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AMENDMENT HISTORY

Amendment Number	Amendment Date	Author of Amendment	Previous Report Version	Previous Report Date
Amendment Details				

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Figure 383: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 231
Figure 384: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 231
Figure 385: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 232
Figure 386: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 232
Figure 387: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 233
Figure 388: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Peak 233
Figure 389: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 234
Figure 390: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 234
Figure 391: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 235

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Figure 392: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 235
Figure 393: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 236
Figure 394: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 236
Figure 395: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 237
Figure 396: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 237
Figure 397: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 238
Figure 398: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 238
Figure 399: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 239
Figure 400: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 239
Figure 401: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 240
Figure 402: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 240
Figure 403: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 241
Figure 404: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 241
Figure 405: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 242
Figure 406: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 242
Figure 407: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 243
Figure 408: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 243
Figure 409: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 244
Figure 410: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 244
Figure 411: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 245
Figure 412: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 245
Figure 413: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 246
Figure 414: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 246
Figure 415: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 247
Figure 416: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 247
Figure 417: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 248
Figure 418: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 248
Figure 419: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 249
Figure 420: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 249
Figure 421: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 250
Figure 422: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 250
Figure 423: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 251
Figure 424: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 251
Figure 425: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 252
Figure 426: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 252
Figure 427: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 253
Figure 428: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 253
Figure 429: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 254
Figure 430: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 254
Figure 431: Spurious emission measured from 8 GHz to 26.50 GHz at Ch. 1-Peak 255
Figure 432: Spurious emission measured from 8 GHz to 26.50 GHz at Ch. 1-Average 255
Figure 433: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 256
Figure 434: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 256
Figure 435: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 257
Figure 436: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 257
Figure 437: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 258
Figure 438: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 258
Figure 439: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 259
Figure 440: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 259

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Figure 441: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 260
Figure 442: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 260
Figure 443: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg 261
Figure 444: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 261
Figure 445: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 262
Figure 446: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 262
Figure 447: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 263
Figure 448: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 263
Figure 449: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 264
Figure 450: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 264
Figure 451: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 265
Figure 452: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 265
Figure 453: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 266
Figure 454: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 266
Figure 455: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 267
Figure 456: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 267
Figure 457: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 268
Figure 458: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 268
Figure 459: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 269
Figure 460: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 269
Figure 461: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 270
Figure 462: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 270
Figure 463: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 271
Figure 464: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 271
Figure 465: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 272
Figure 466: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 272
Figure 467: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 273
Figure 468: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 273
Figure 469: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 274
Figure 470: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 274
Figure 471: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 275
Figure 472: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 275
Figure 473: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 276
Figure 474: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 276
Figure 475: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 277
Figure 476 : Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 277
Figure 477: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 278
Figure 478: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 278
Figure 479: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Average 279
Figure 480: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 279
Figure 481: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 280
Figure 482: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 280
Figure 483: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 281
Figure 484: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 281
Figure 485: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 282
Figure 486: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 282
Figure 487: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 283
Figure 488: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 283
Figure 489: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 284

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Figure 490: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 284
Figure 491: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 285
Figure 492: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 285
Figure 493: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 286
Figure 494: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 286
Figure 495: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 287
Figure 496: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 287
Figure 497: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 288
Figure 498: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 288
Figure 499: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 289
Figure 500: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 289
Figure 501: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 290
Figure 502: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 290
Figure 503: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 291
Figure 504: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 291
Figure 505: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 292
Figure 506: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 292
Figure 507: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 293
Figure 508: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 293
Figure 509: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 294
Figure 510: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 294
Figure 511: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 295
Figure 512: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 295
Figure 513: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 296
Figure 514: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 296
Figure 515: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 297
Figure 516: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 297
Figure 517: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 298
Figure 518: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 298
Figure 519: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 299
Figure 520: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 299
Figure 521: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 300
Figure 522: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 300
Figure 523: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average 301
Figure 524: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 301
Figure 525: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak 302
Figure 526: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak 302
Figure 527: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak 303
Figure 528: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak 303
Figure 529: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average 304
Figure 530: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak 304
Figure 531: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average 305
Figure 532: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak 305
Figure 533: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average 306
Figure 534: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak 306
Figure 535: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak 307
Figure 536: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak 307
Figure 537: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak 308
Figure 538: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average 308

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Figure 539: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak 309
Figure 540: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average 309
Figure 541: Spurious emission measured from 26.5 GHZ to 40 GHz at Ch. 1-Average 310
Figure 542: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak 310

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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	AE50013161	000456F802FD	000456F802FC
Date of Submission	12th Mar 2015			
Date of Test	12th Mar 2015 to 28th Apr 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	§15.403 (h) (i)	26 dB Emission Bandwidth measurement	NA
	NA	99 Percent Occupied Bandwidth	NA
	§15.407 (a) (2)	Maximum Conducted Output Power	PASS
	§15.407 (a) (2)	Peak Power Spectral Density	PASS
	§15.407 (a) (6)	Peak Excursion Ratio	PASS
	§15.407 (b) (3)	Unwanted emission levels-Conducted Band edge	PASS
	§15.407 (b) (3) & §15.407 (b) (6)	Undesirable emission outside the Intentional band	PASS

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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
Harsha K S	Subhendu	Rajneesh R
Test Engineer	Test Engineer	Functional Head

2 GENERAL INFORMATION

2.1 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

2.2 TEST FACILITY DETAILS

All the tests were carried out at Tarang –Product Qualification and Compliance Planet located at Wipro Limited, SJP2, Dodda Kanelli, 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

2.3 MEASUREMENT UNCERTAINTY

The following measurement uncertainties are applicable to the relevant tests that are mentioned below:

Test performed	Measurement Uncertainty
Radiated Emission from 9 kHz to 30MHz at 3meter	± 3.968dB
Radiated Emission from 30MHz to 1GHz at 3meter	± 5.173dB
Radiated Emission from 1 GHz to 18 GHz at 3meter	± 4.112dB
Radiated Emission from 18 GHz to 40 GHz at 3meter	± 4.878dB
Conducted Emission from 150kHz to 30MHz	± 2.194dB

3 INSTRUMENTATION AND CALIBRATION

3.1 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.

3.2 EQUIPMENTS USED

Name of Equipment	Manufacturer	Model No	Serial No	Calibration Due
EMI Test Receiver	R&S	ESIB40	100306	07th Oct 2015
Hybrid Log Periodic Antenna	TDK	HLP-3003C	130334	25th Jul 2015
Pre-Amplifier	SONOMA	310	270817	31st May 2015
V-LISN	SME	NNLK 8128	8128-243	08th Aug 2015
Double Ridged BB Horn	SME	BBHA 9120D	9120D 688	05th Aug 2015
Broadband Horn Antenna	SME	BBHA 9170	9170 336	11th Nov 2015
Preamplifier	TDK RF solutions	PA 02	100008	31st May 2015
Preamplifier	TDK RF solutions	Preamp	2007331	10th Nov 2015
Preamplifier	TDK RF solutions	Preamp	2007332	10th Nov 2015
Spectrum Analyzer	Agilent Technologies	E4407B	MY45112948	02nd Apr 2016
X-Series USB Peak & Average Power Sensor	Keysight Technologies	U2021XA	MY55050002	08th Feb 2016
X-Series USB Peak & Average Power Sensor	Keysight Technologies	U2021XA	MY55050001	08th Feb 2016
Tunable Band reject/Notch filter	Wainwright Instruments GmbH	WTRCJV8-5150-5850-40-160-50SSK	01	NA

4 PRODUCT INFORMATION

4.1 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

4.2 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, mid & high channels
  - Rate - HT40,
  - 54Mbps OFDM, MCS15:270Mbps
  - Interframe spacing is tx100
  - Tx gain is 65 for 2.15dBi antenna configuration
  - Tx gain is 40 for 17dBi antenna configuration
  - Tx gain is 22 for 24dBi antenna configuration

- 10MHz modulation bandwidth for low, mid & high channels
  - Rate – HT20,
  - 54Mbps OFDM, MCS15:130Mbps
  - Interframe spacing is tx100
  - Tx gain is 65 for 2.15dBi antenna configuration
  - Tx gain is 40 for 17dBi antenna configuration
  - Tx gain is for 24dBi antenna configuration

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

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4.3 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

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5 TEST DETAILS

5.1 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

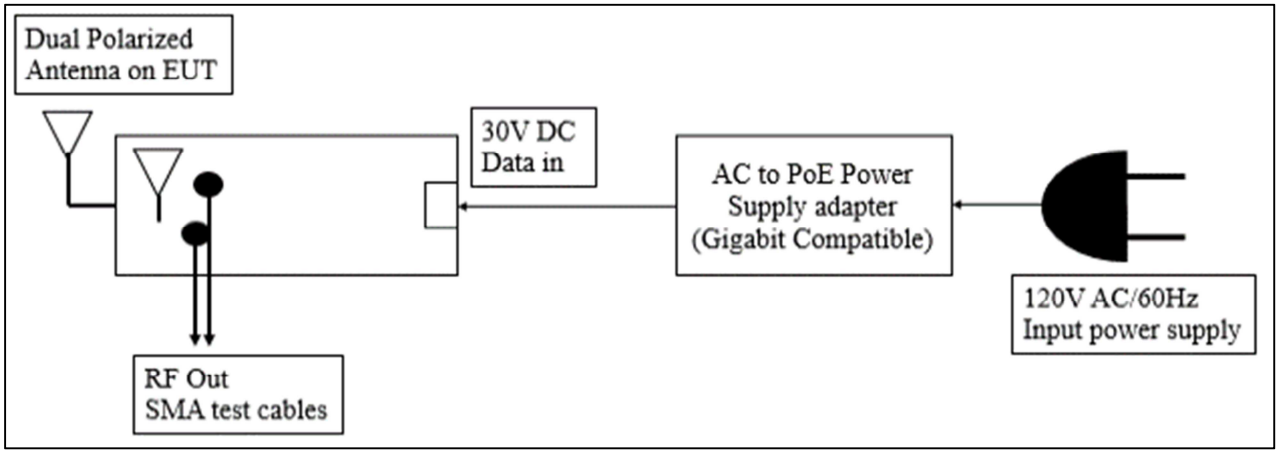

Figure 1: Block Diagram of the EUT test setup during the tests

5.1.3 ACCESSORIES

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

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5.2 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	26 dB Emission Bandwidth measurement	NA	Antenna port
	99 Percent Occupied Bandwidth	NA	Antenna port
	Maximum Conducted Output Power	Refer Section 5.3.3.2	Antenna port
	Peak Power Spectral Density	Refer Section 5.3.4.2	Antenna port
	Peak Excursion ratio	Refer Section 5.3.5.2	Antenna port
	Unwanted Emissions levels-Conducted Band edge	EIRP of < -27dBm/MHz	Antenna port
	Undesirable emission outside the Intentional band-Conducted	EIRP of < -27dBm/MHz	Antenna port

5.3 TEST RESULT

5.3.1 26 dB EMISSION BANDWIDTH MEASUREMENT

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	
Modulation Bandwidth	**40MHz**	**10MHz**
Resolution Bandwidth	300 kHz	100 kHz
Video Bandwidth	1MHz	300 kHz
Sweep Time	100ms	
Attenuation	Auto	
Test Mode	Conducted	
Detector	Peak	
Input Voltage	120V AC	
Input Frequency	60 Hz	
Temperature	22.0°C	
Humidity	56.0%	
Tested By	Harsha K	
Test Date	12th Mar 2015 to 28th Apr 2015	

5.3.1.2 LIMITS

Standard	Reference section	Frequency range	Limit
47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C RSS-Gen, Issue 4, Nov 2014	15.403 (h) (i)	5470MHz to 5725MHz	NA

5.3.1.3 TEST SETUP

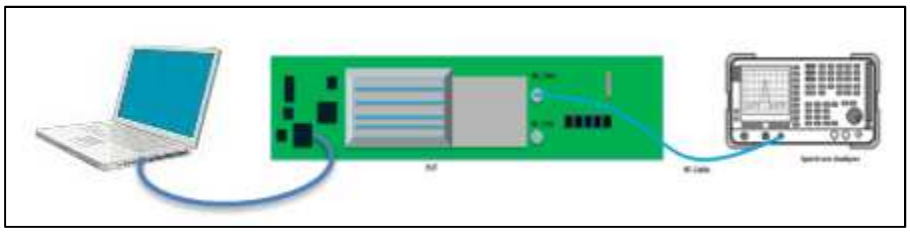

Figure 2: Typical test setup for Conducted RF Test setup

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5.3.1.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per Section C of **"789033 D01 General UNII Test Procedures Old Rules v01r04".**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.

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5.3.1.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.1.5.1 40MHz MODULATION BW-LOW CHANNEL_5495MHz

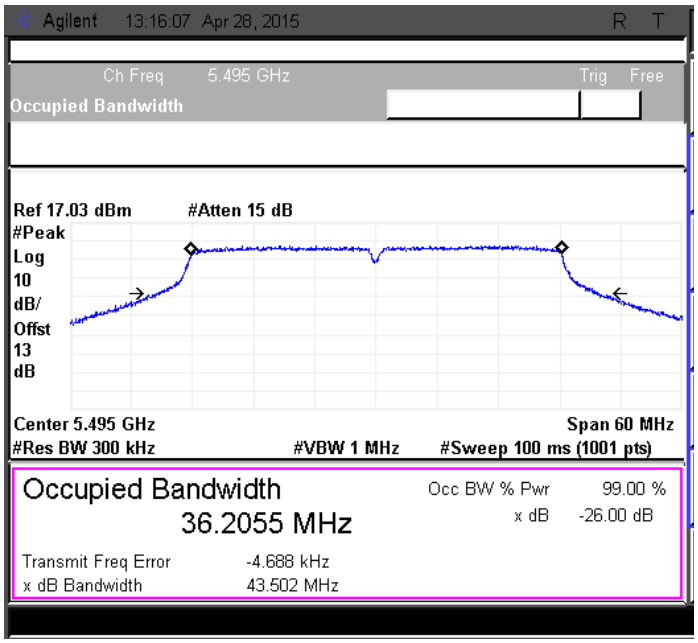

Figure 3: 26dB Bandwidth measured at ch0

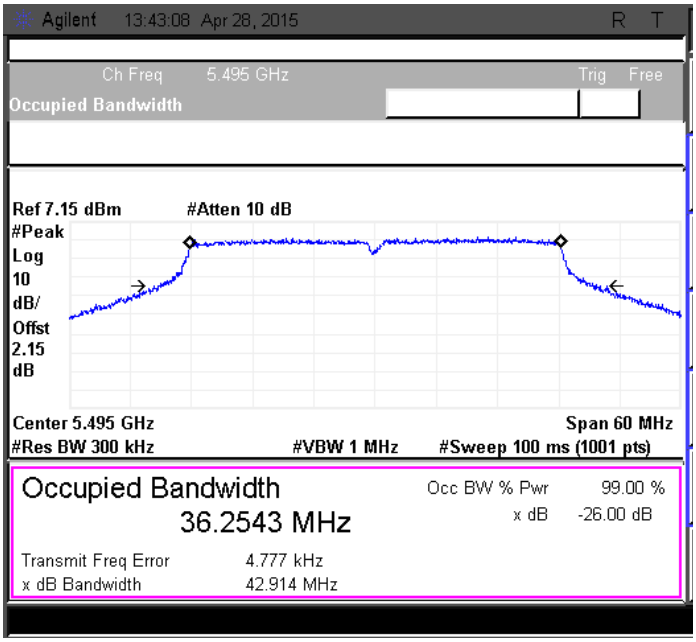

Figure 4: 26dB Bandwidth measured at ch1

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5.3.1.5.2 40MHz Modulation BW -Mid channel_5550MHz

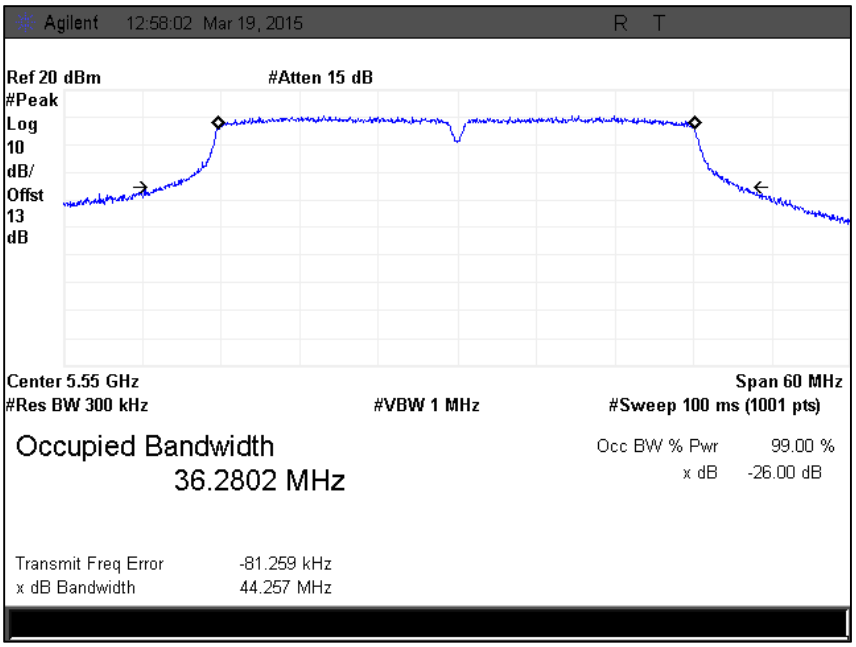

Figure 5: 26dB Bandwidth measured at ch0

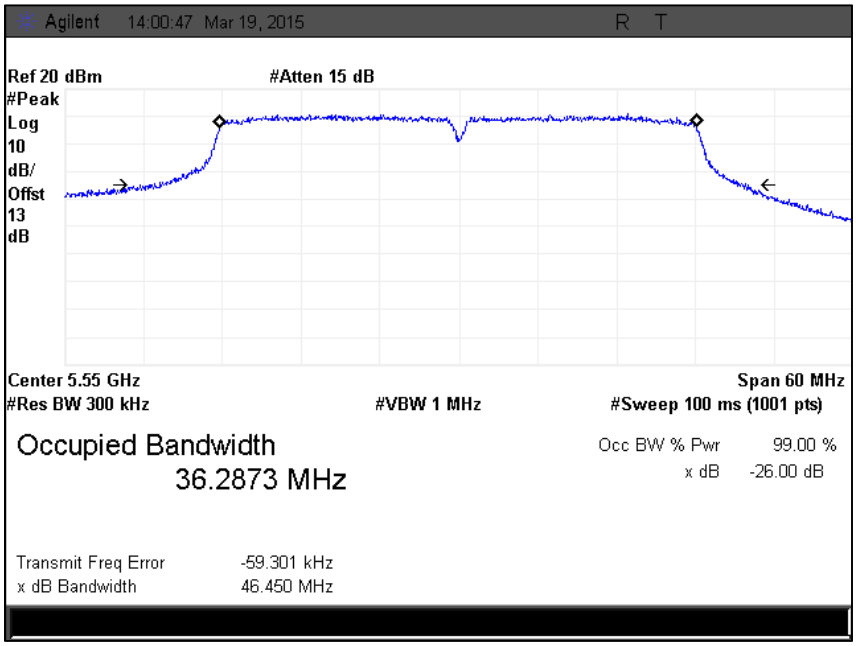

Figure 6: 26dB Bandwidth measured at ch1

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5.3.1.5.3 40MHz MODULATION BW -HIGH CHANNEL_5700MHz

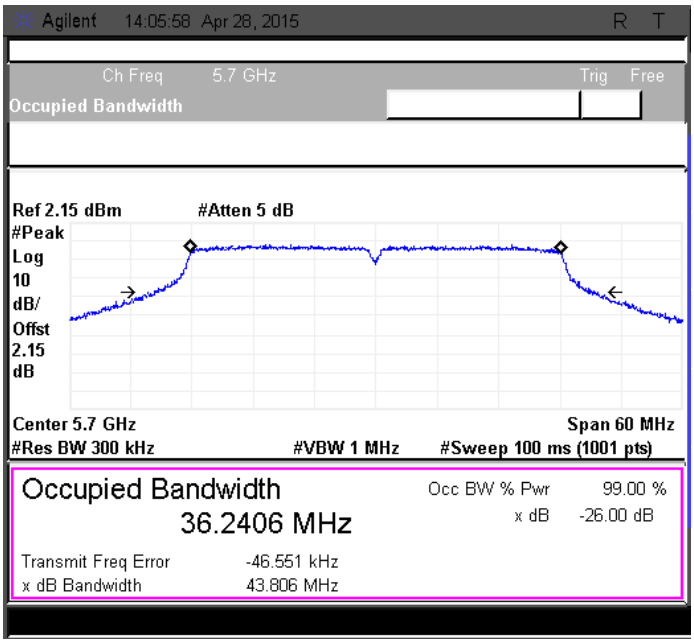

Figure 7: 26dB Bandwidth measured at ch0

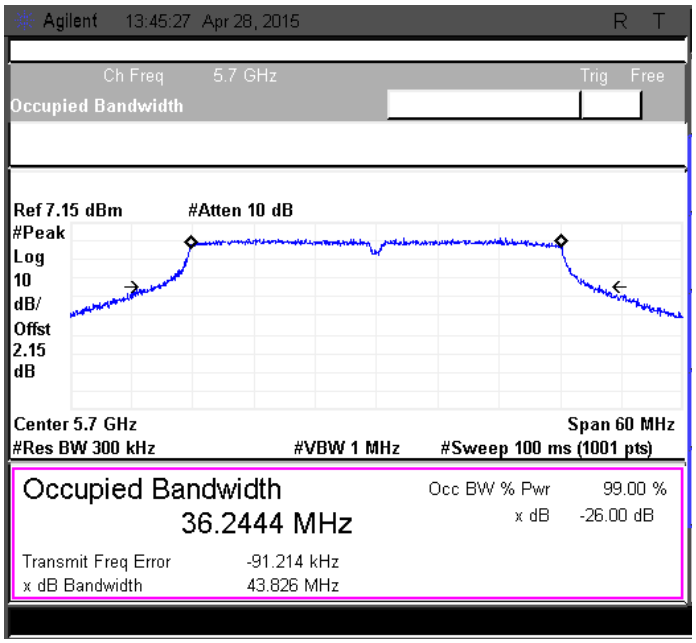

Figure 8: 26dB Bandwidth measured at ch1

5.3.1.5.4 10MHz Modulation BW-Low channel_5485MHz

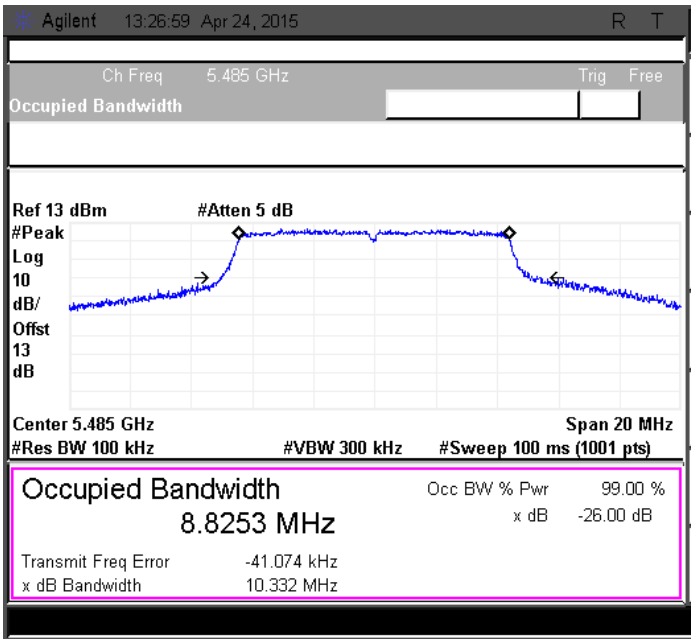

Figure 9: 26dB Bandwidth measured at ch0

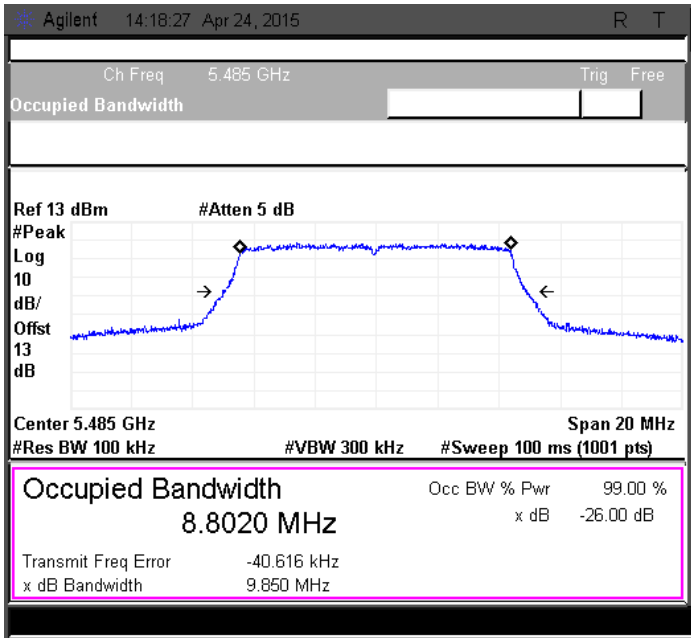

Figure 10: 26dB Bandwidth measured at ch1

5.3.1.5.5 10MHz Modulation BW-Mid channel_5550MHz

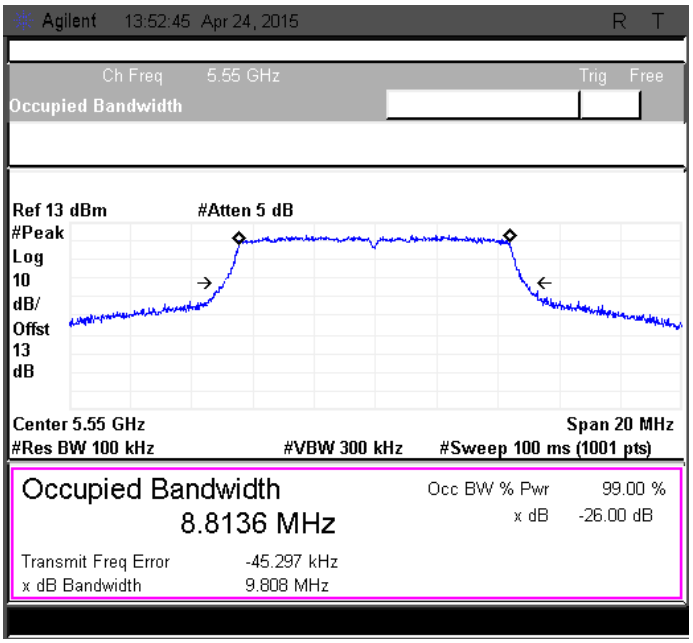

Figure 11: 26dB Bandwidth measured at ch0

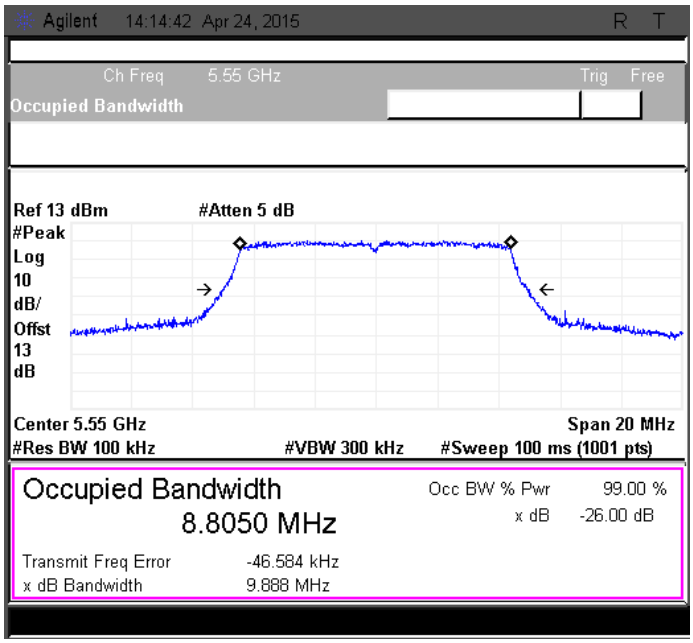

Figure 12: 26dB Bandwidth measured at ch1

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5.3.1.5.6 10MHz Modulation BW-High channel_5710MHz

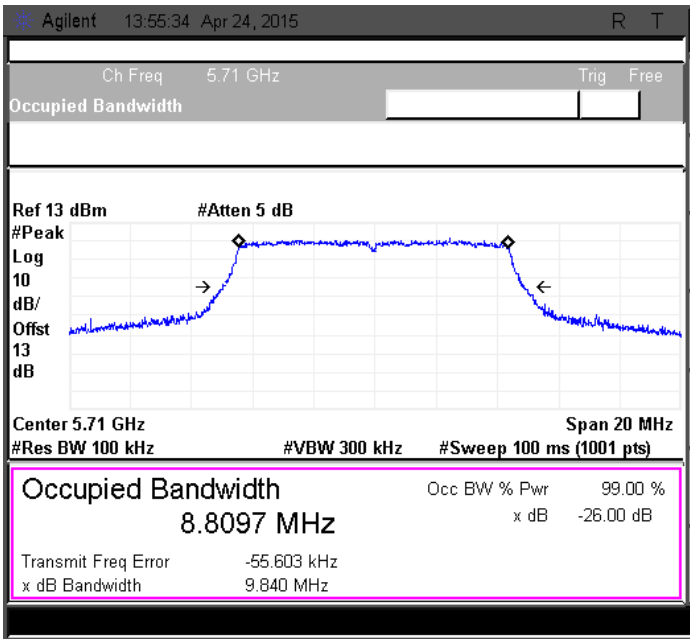

Figure 13: 26dB Bandwidth measured at ch0

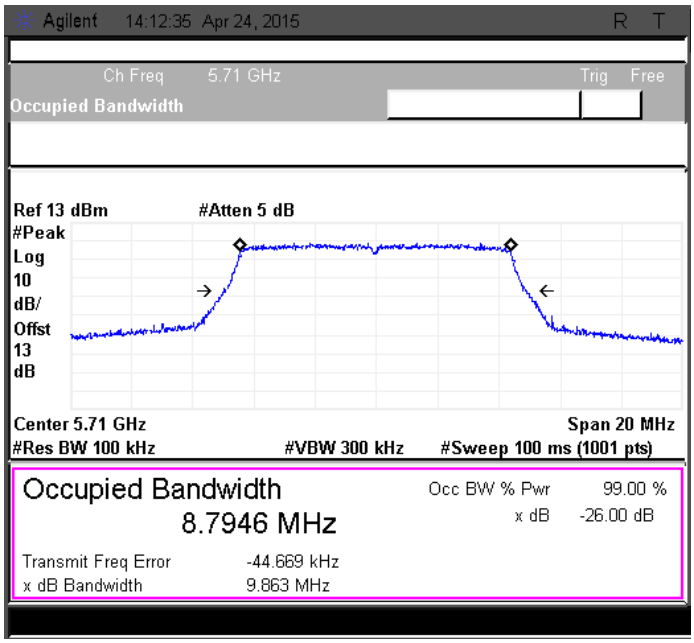

Figure 14: 26dB Bandwidth measured at ch1

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

5.3.1.6.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

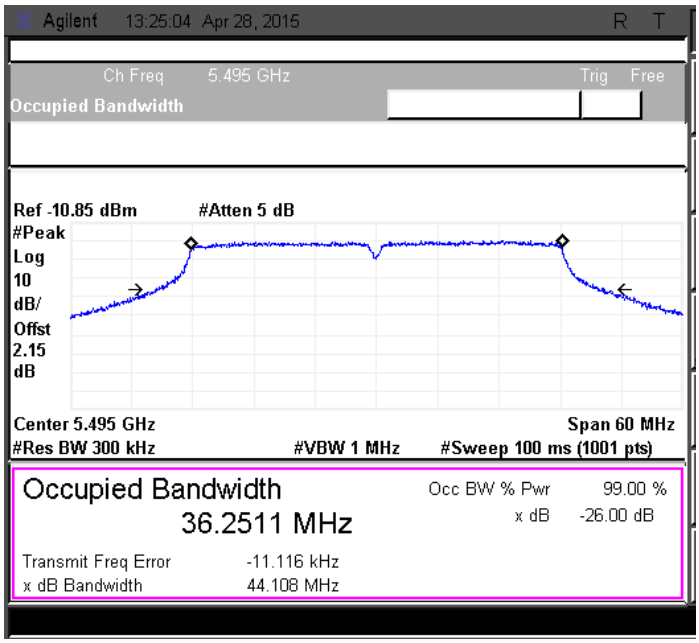

Figure 15: 26dB Bandwidth measured at ch0

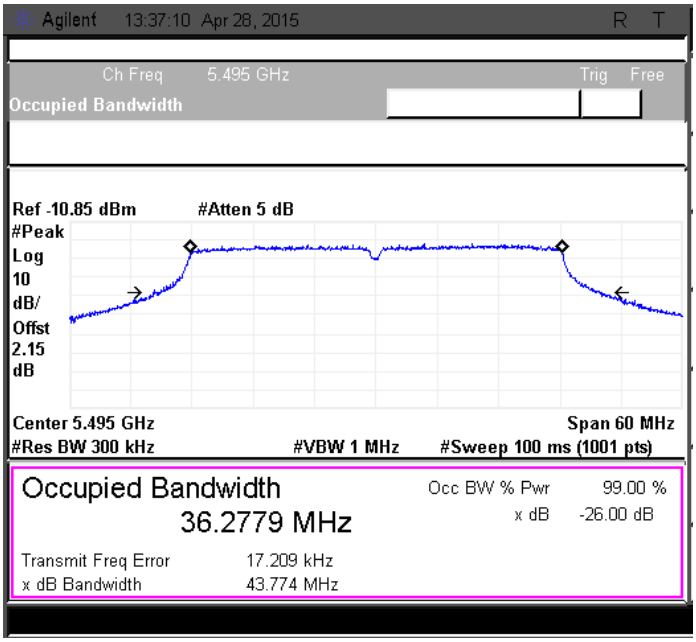

Figure 16: 26dB Bandwidth measured at ch1

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5.3.1.6.2 40MHz Modulation BW -Mid channel_5550 MHz

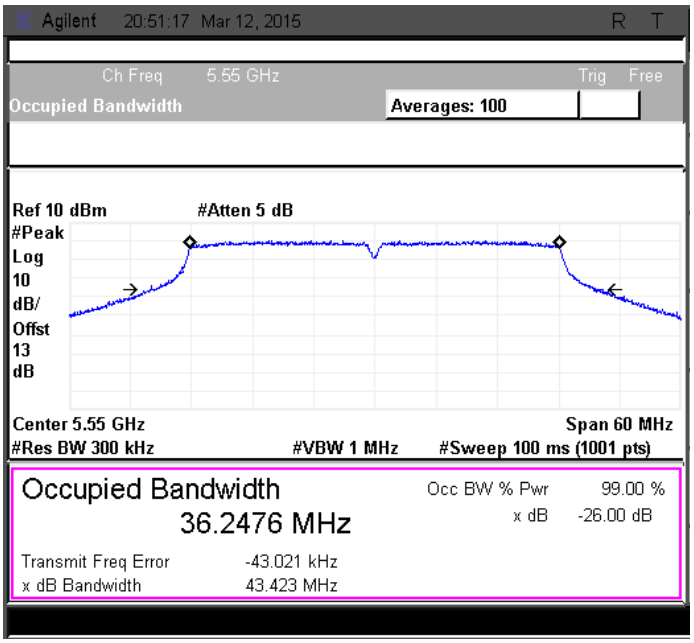

Figure 17: 26dB Bandwidth measured at ch0

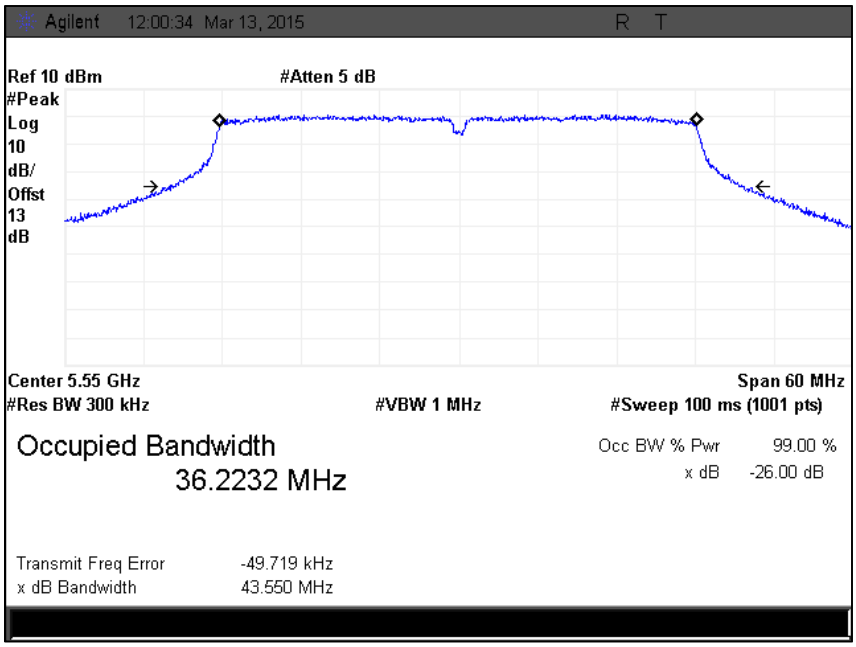

Figure 18: 26dB Bandwidth measured at ch1

5.3.1.6.3 40MHz Modulation BW -High channel_5700MHz

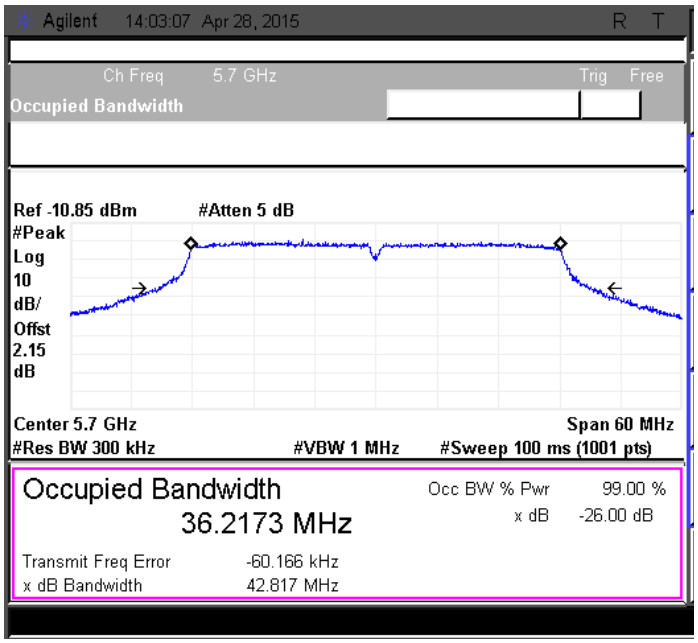

Figure 19: 26dB Bandwidth measured at ch0

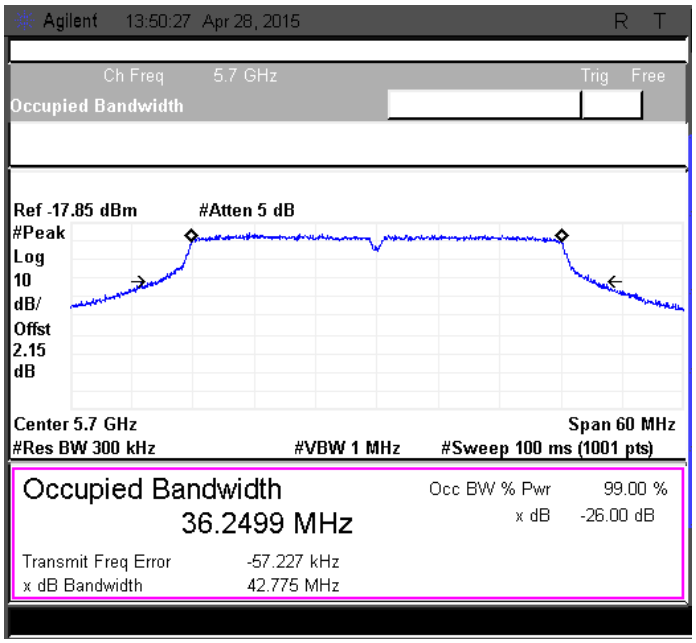

Figure 20: 26dB Bandwidth measured at ch1

5.3.1.6.4 10MHz Modulation BW-Low channel_5485 MHz

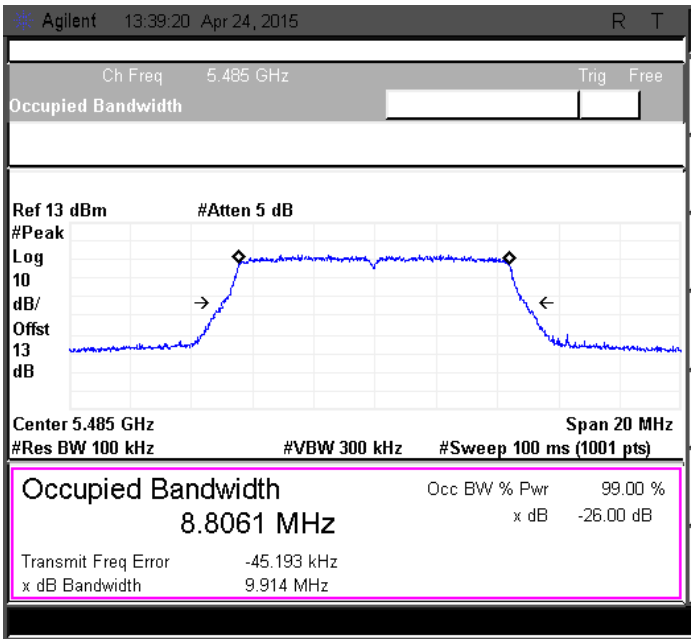

Figure 21: 26dB Bandwidth measured at ch0

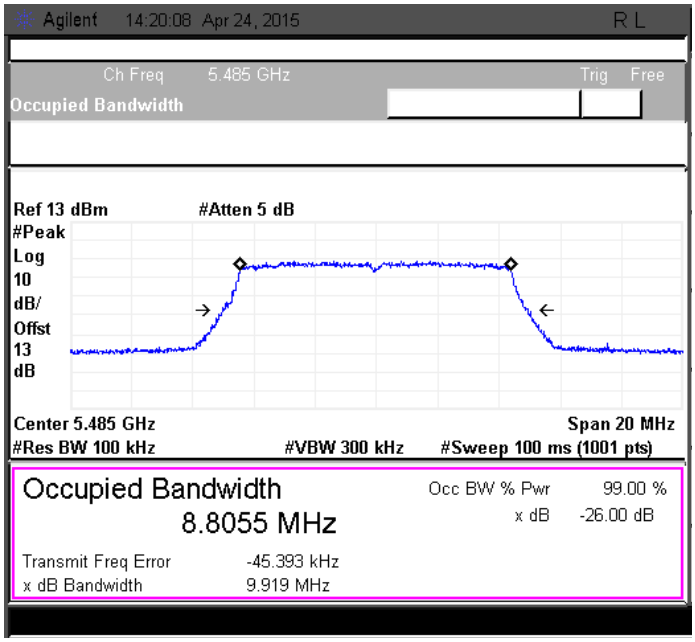

Figure 22: 26dB Bandwidth measured at ch1

5.3.1.6.5 10MHz Modulation BW-Mid channel_5550 MHz

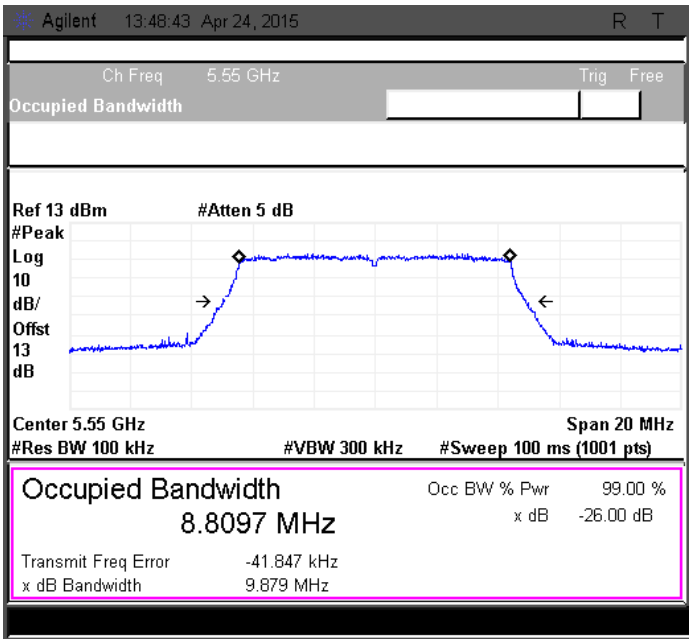

Figure 23: 26dB Bandwidth measured at ch0

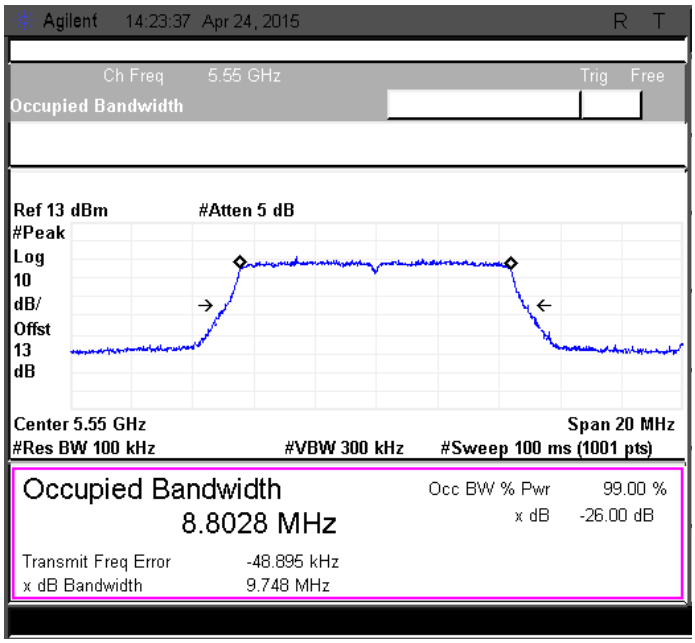

Figure 24: 26dB Bandwidth measured at ch1

5.3.1.6.6 10MHz Modulation BW-High channel_5710 MHz

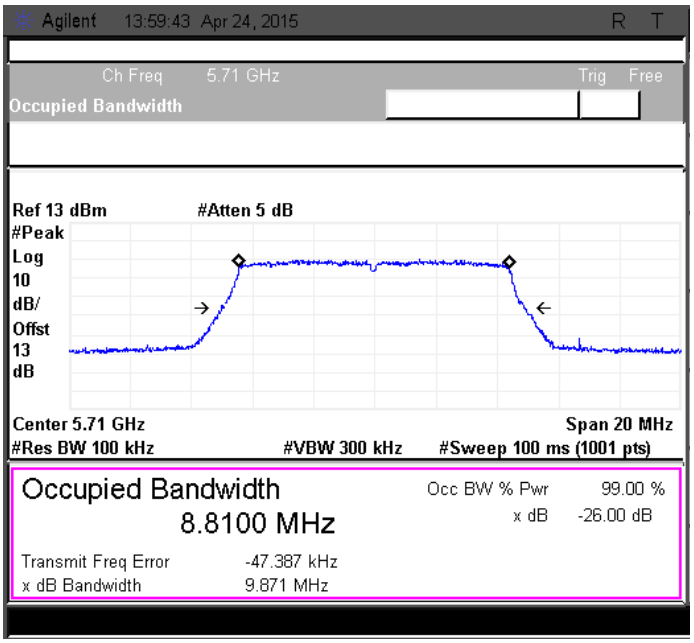

Figure 25: 26dB Bandwidth measured at ch0

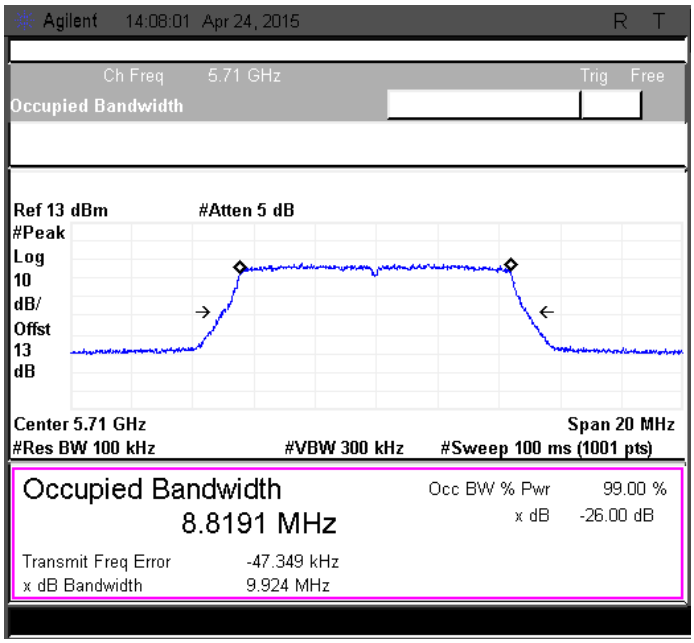

Figure 26: 26dB Bandwidth measured at ch1

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

5.3.1.7.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

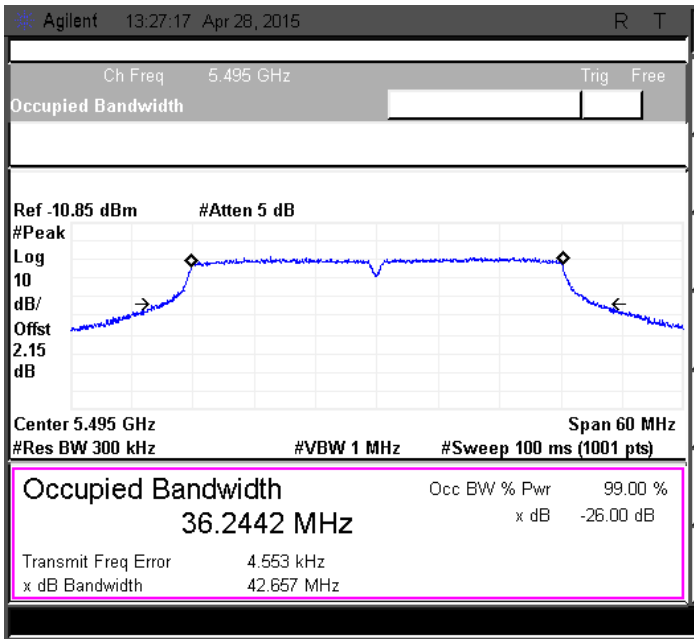

Figure 27: 26dB Bandwidth measured at ch0

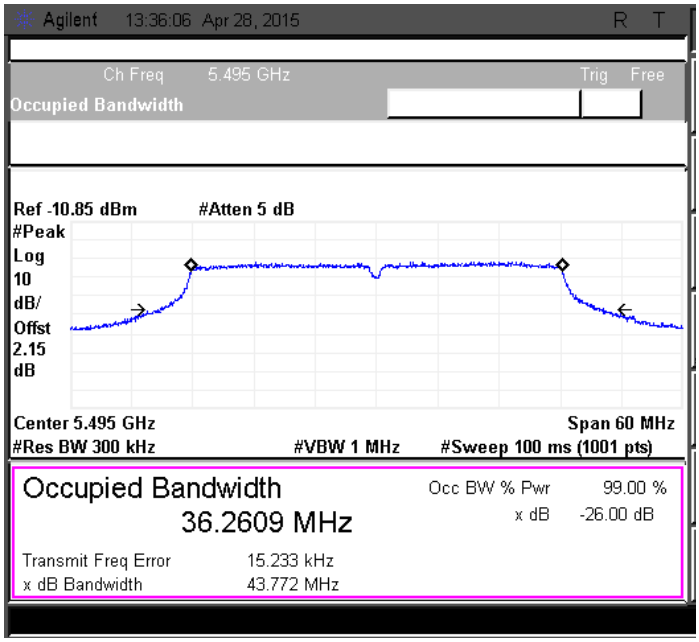

Figure 28: 26dB Bandwidth measured at ch1

5.3.1.7.2 40MHz Modulation BW -Mid channel_5550 MHz

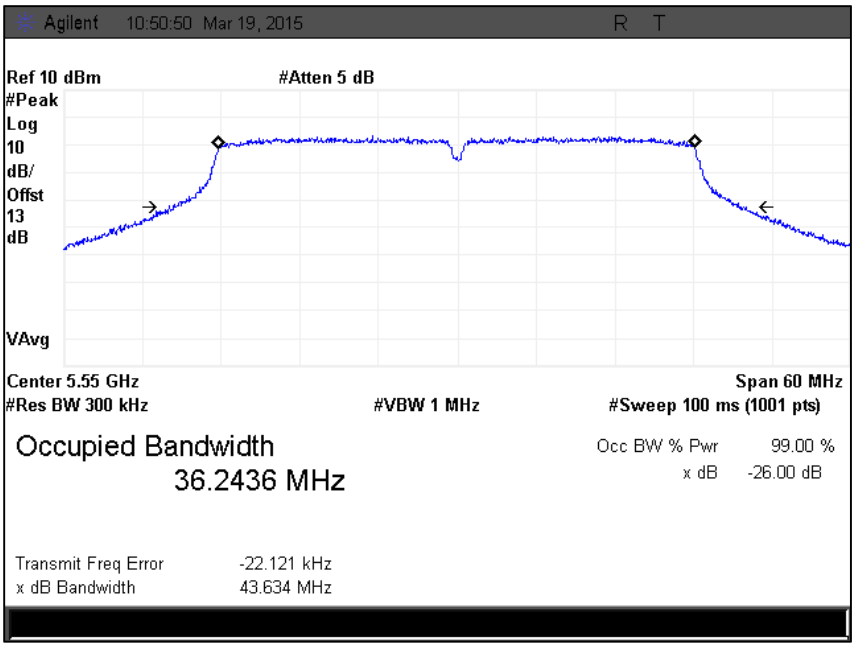

Figure 29: 26dB Bandwidth measured at ch0

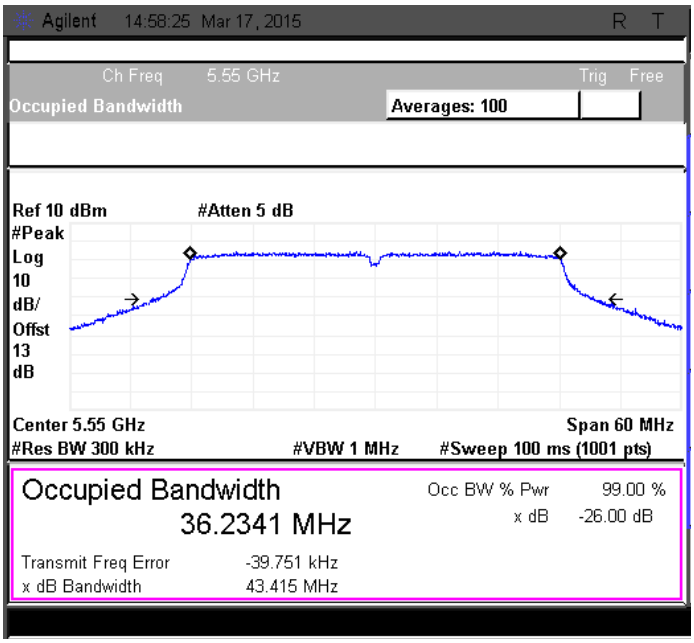

Figure 30: 26dB Bandwidth measured at ch1

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5.3.1.7.3 40MHz MODULATION BW -HIGH CHANNEL_5700MHz

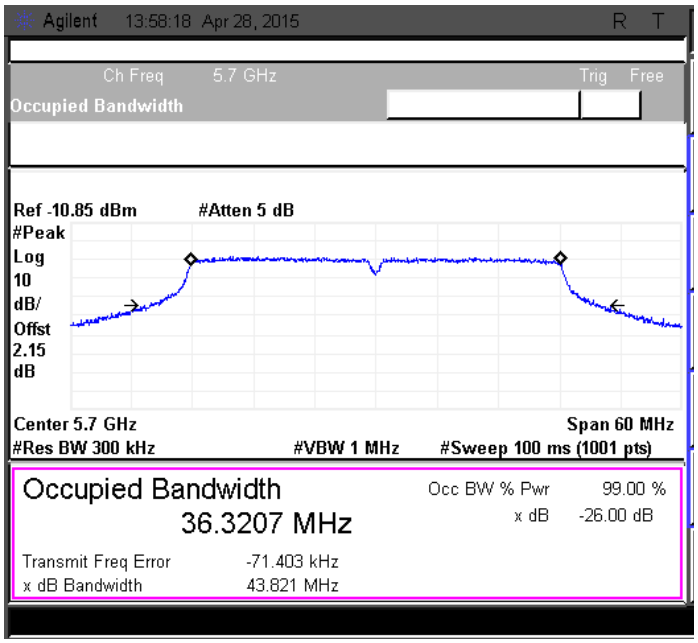

Figure 31: 26dB Bandwidth measured at ch0

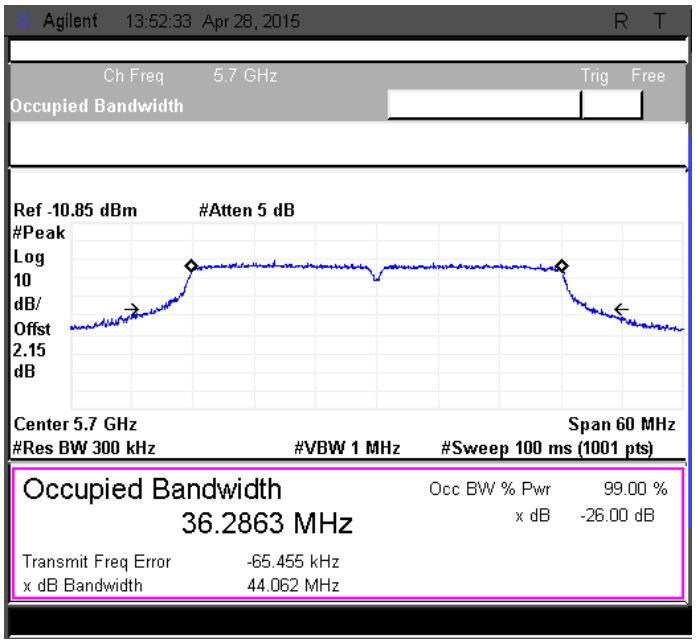

Figure 32: 26dB Bandwidth measured at ch1

5.3.1.7.4 10MHz Modulation BW-Low channel_5485 MHz

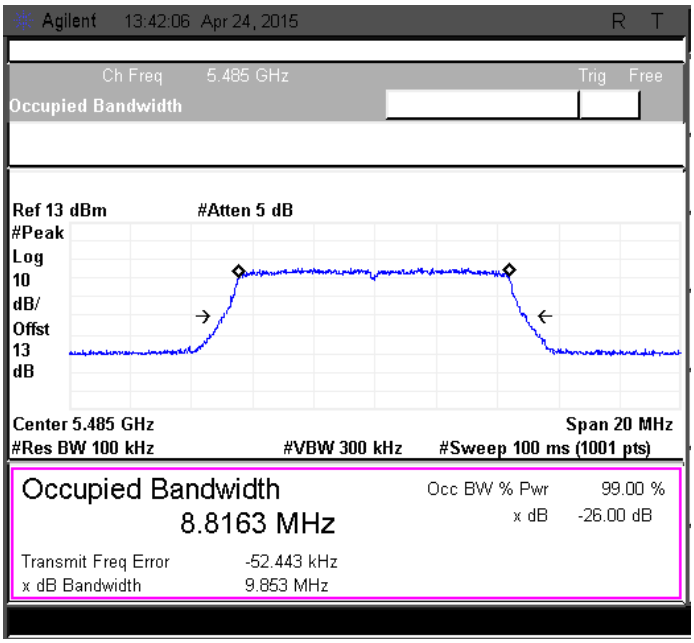

Figure 33: 26dB Bandwidth measured at ch0

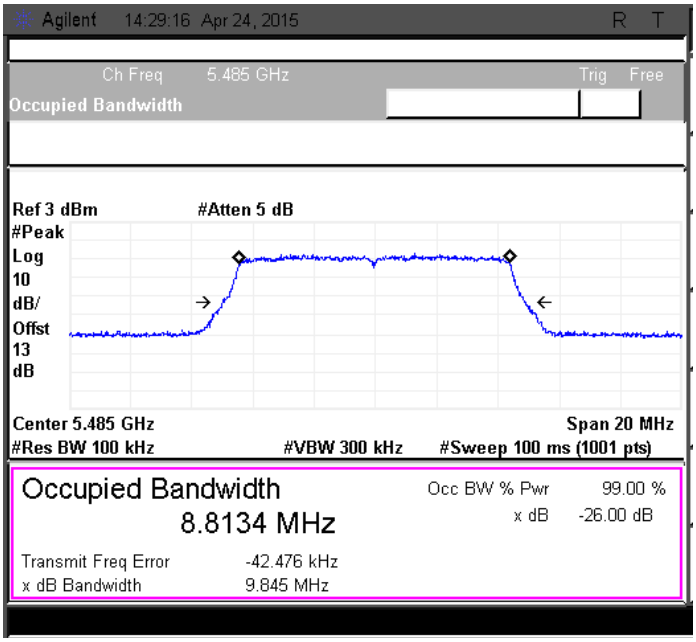

Figure 34: 26dB Bandwidth measured at ch1

5.3.1.7.5 10MHz Modulation BW-Mid channel_5550 MHz

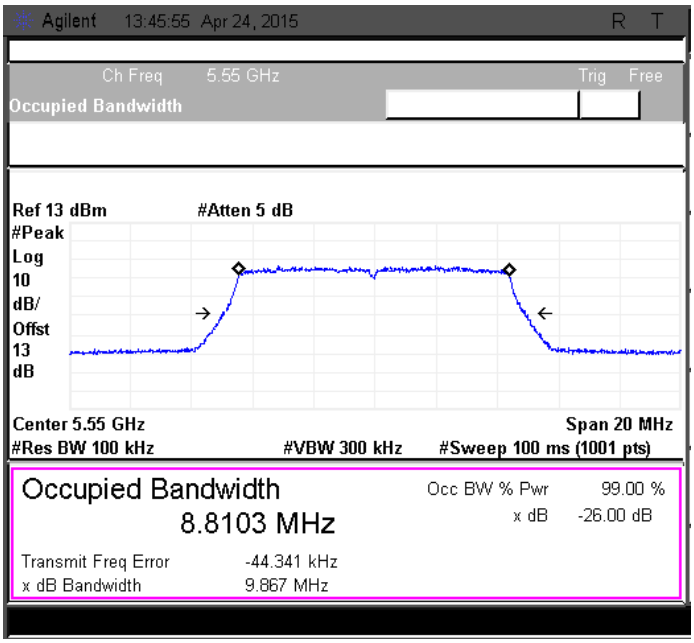

Figure 35: 26dB Bandwidth measured at ch0

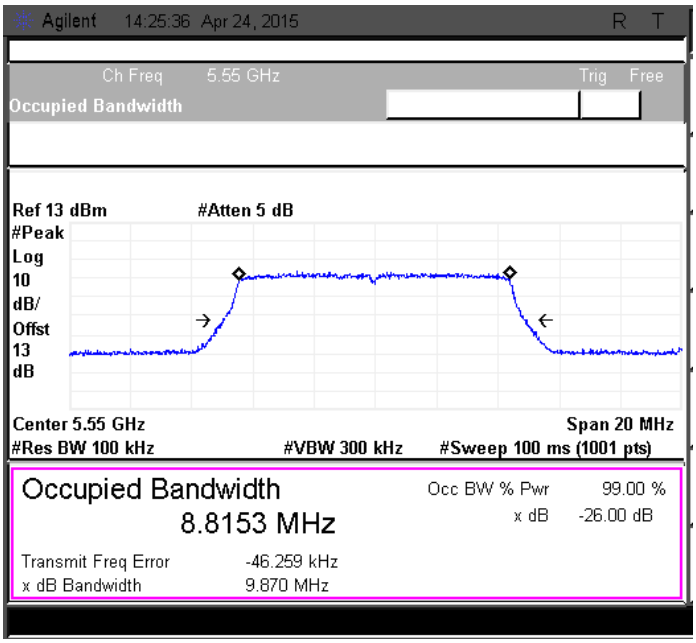

Figure 36: 26dB Bandwidth measured at ch1

5.3.1.7.6 10MHz Modulation BW-High channel_5710MHz

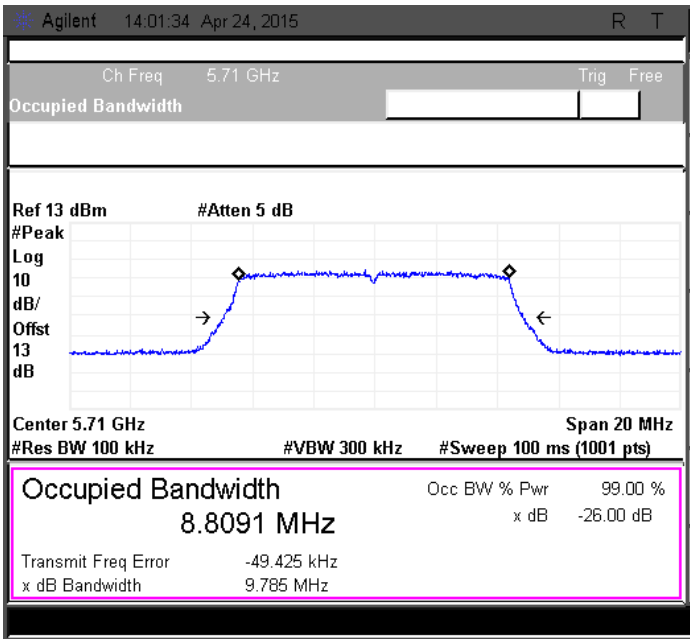

Figure 37: 26dB Bandwidth measured at ch0

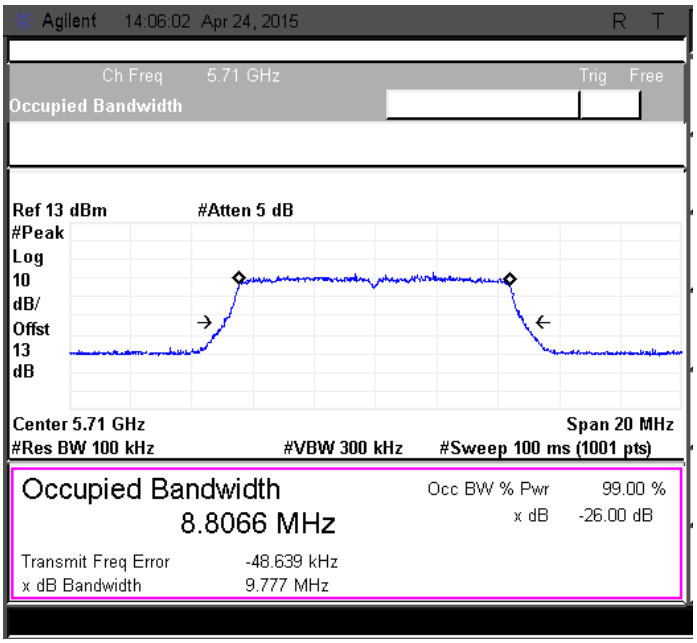

Figure 38: 26dB Bandwidth measured at ch1

5.3.1.8 RESULT

26dB Bandwidth for all channels in both 40MHz & 10MHz Modulation Bandwidths has been measured and tabulated in below table.

Test Condition	Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (MHz)
Basic	40	Ch. 0	5495	43.502
Basic	40	Ch. 0	5550	44.257
Basic	40	Ch. 0	5700	43.806
Basic	40	Ch. 1	5495	42.914
Basic	40	Ch. 1	5550	46.45
Basic	40	Ch. 1	5700	43.826
Basic	10	Ch. 0	5485	10.332
Basic	10	Ch. 0	5550	9.808
Basic	10	Ch. 0	5710	9.840
Basic	10	Ch. 1	5485	9.850
Basic	10	Ch. 1	5550	9.888
Basic	10	Ch. 1	5710	9.863
17dBi Antenna	40	Ch. 0	5495	44.108
17dBi Antenna	40	Ch. 0	5550	43.423
17dBi Antenna	40	Ch. 0	5700	42.817
17dBi Antenna	40	Ch. 1	5495	43.774
17dBi Antenna	40	Ch. 1	5550	43.550
17dBi Antenna	40	Ch. 1	5700	42.775
17dBi Antenna	10	Ch. 0	5485	9.914
17dBi Antenna	10	Ch. 0	5550	9.879
17dBi Antenna	10	Ch. 0	5710	9.871
17dBi Antenna	10	Ch. 1	5485	9.919
17dBi Antenna	10	Ch. 1	5550	9.748
17dBi Antenna	10	Ch. 1	5710	9.924
24dBi Dish	40	Ch. 0	5495	42.657
24dBi Dish	40	Ch. 0	5550	43.634
24dBi Dish	40	Ch. 0	5700	43.821
24dBi Dish	40	Ch. 1	5495	43.772
24dBi Dish	40	Ch. 1	5550	43.415
24dBi Dish	40	Ch. 1	5700	44.062
24dBi Dish	10	Ch. 0	5485	9.853
24dBi Dish	10	Ch. 0	5550	9.867
24dBi Dish	10	Ch. 0	5710	9.785
24dBi Dish	10	Ch. 1	5485	9.845
24dBi Dish	10	Ch. 1	5550	9.87
24dBi Dish	10	Ch. 1	5710	9.777

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5.3.2 99 PERCENT OCCUPIED BANDWIDTH MEASUREMENT

5.3.2.1 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	
Modulation Bandwidth	**40MHz**	**10MHz**
Resolution Bandwidth	1MHz	300 kHz
Video Bandwidth	3MHz	1MHz
Sweep Time	100ms	
Attenuation	Auto	
Test Mode	Conducted	
Detector	Peak	
Input Voltage	120V AC	
Input Frequency	60 Hz	
Temperature	22.0°C	
Humidity	56.0%	
Tested By	Harsha K	
Test Date	12th Mar 2015 to 28th Apr 2015	

5.3.2.2 LIMITS

Standard	Reference section	Frequency range	Limit
47 CFR Ch. I (10–1–14 Ed), Part 15, Subpart C RSS-Gen, Issue 4, Nov 2014	NA	5470MHz to 5725MHz	NA

5.3.2.3 TEST SETUP

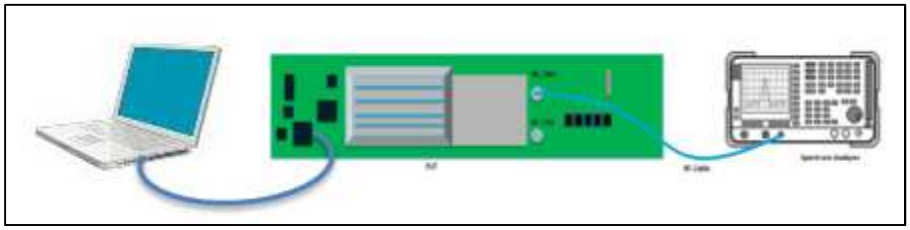

Figure 39: Typical test setup for Conducted RF Test setup

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5.3.2.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per Section D of **"789033 D01 General UNII Test Procedures Old Rules v01r04".**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.

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5.3.2.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.2.5.1 40MHz MODULATION BW-LOW CHANNEL_5495MHz

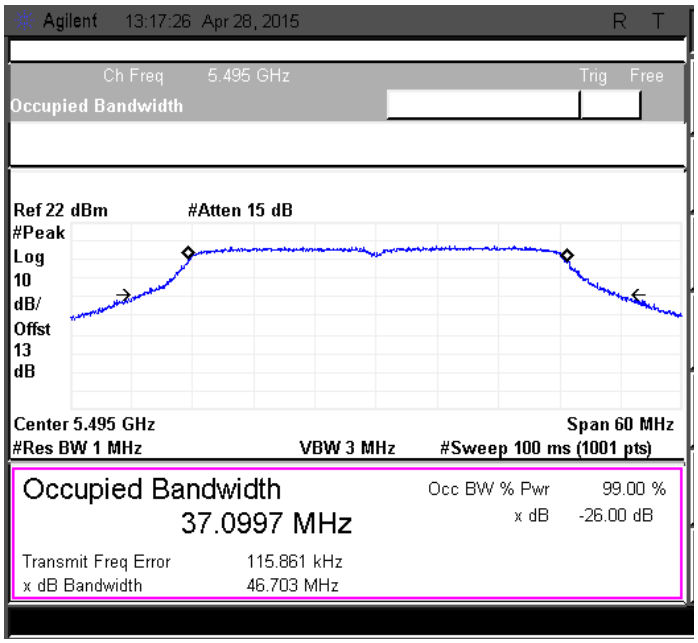

Figure 40: 99 Percent OBW measured at ch.0

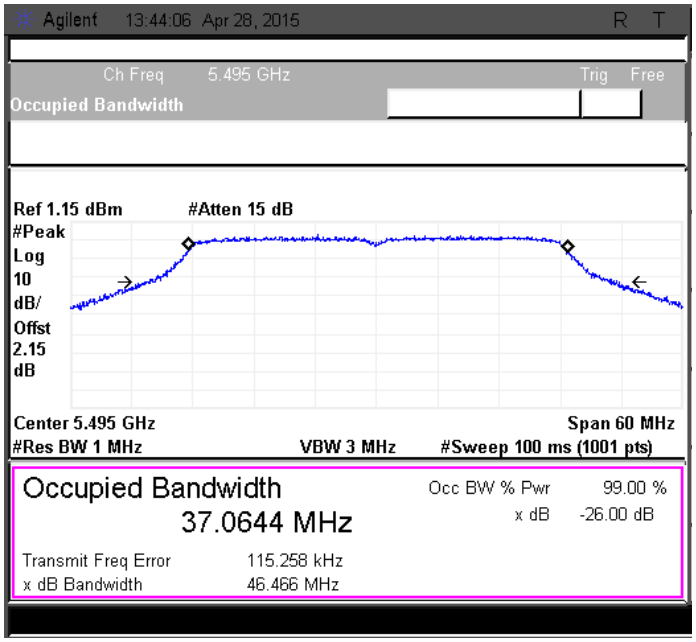

Figure 41: 99 Percent OBW measured at ch.1

5.3.2.5.2 40MHz Modulation BW -Mid channel_5550MHz

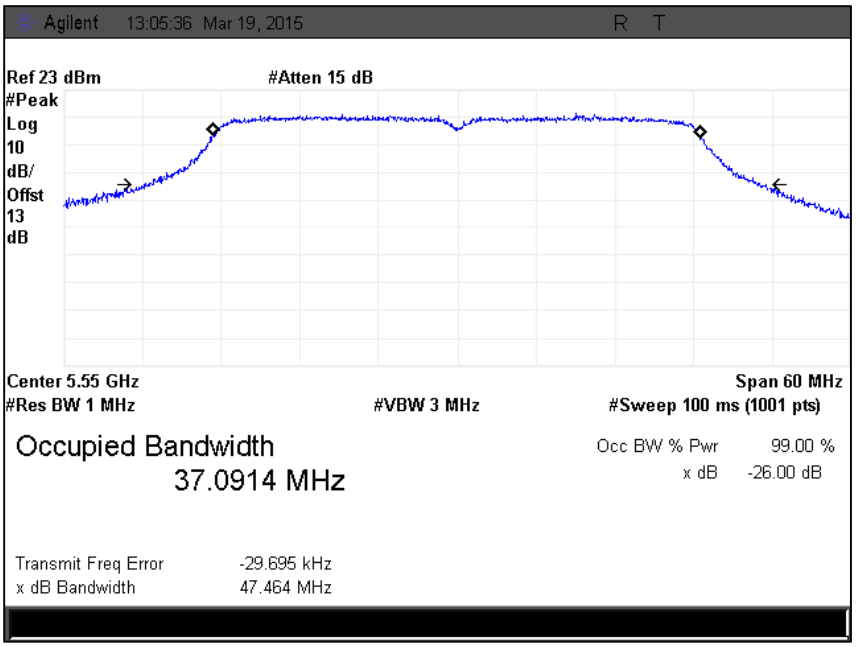

Figure 42: 99 Percent OBW measured at ch.0

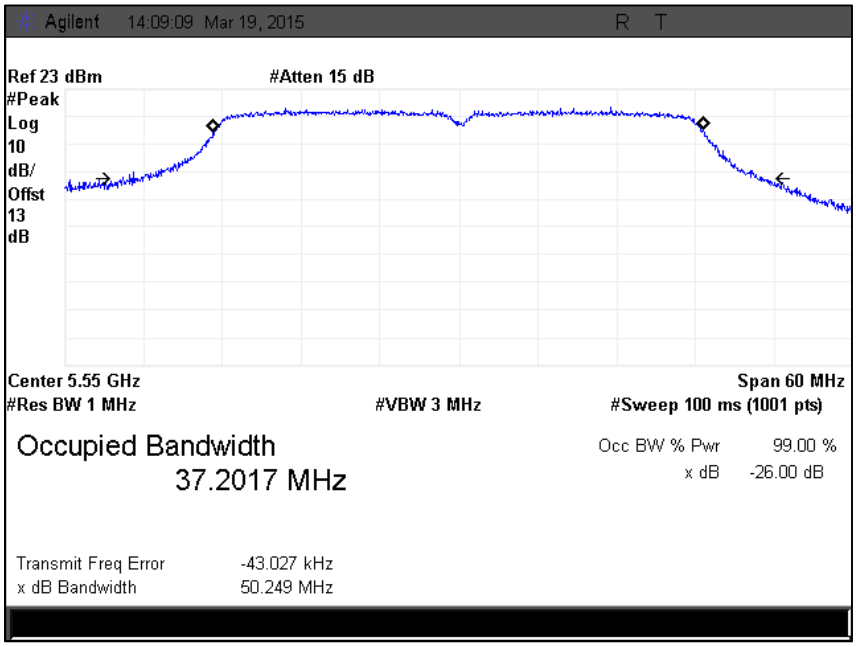

Figure 43: 99 Percent OBW measured at ch.1

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5.3.2.5.3 40MHz MODULATION BW -HIGH CHANNEL_5700MHz

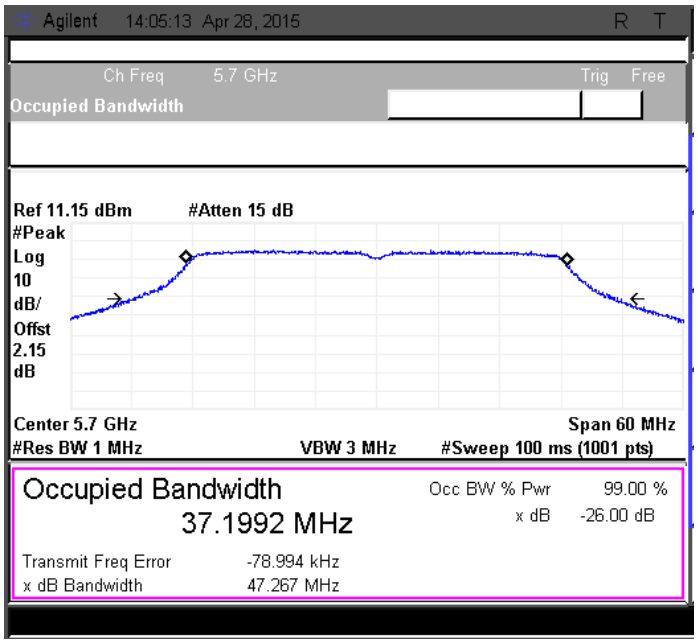

Figure 44: 99 Percent OBW measured at ch.0

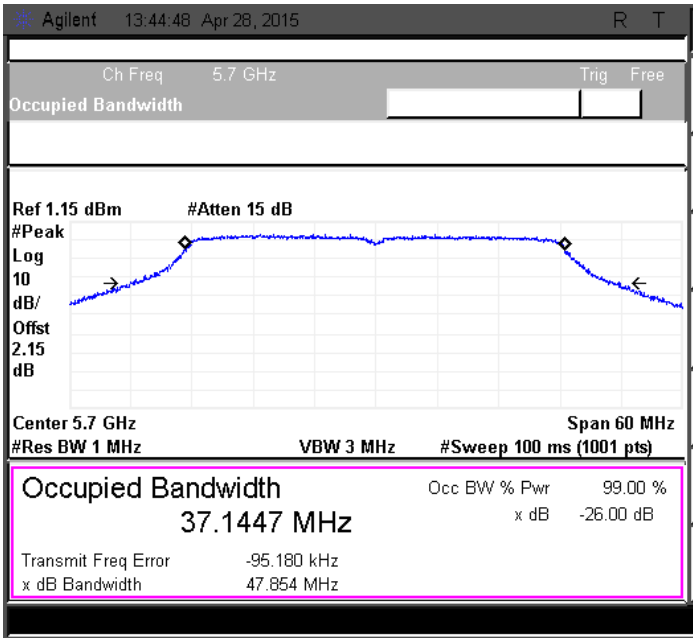

Figure 45: 99 Percent OBW measured at ch.1

5.3.2.5.4 10MHz Modulation BW-Low channel_5485MHz

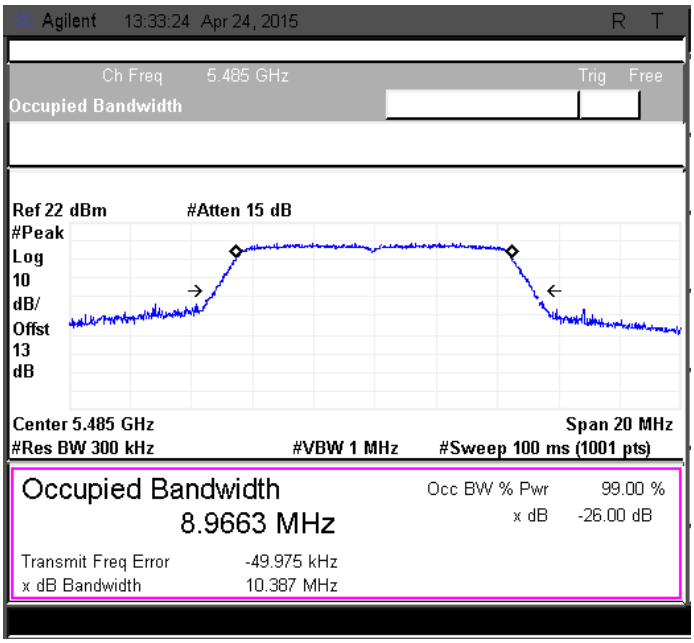

Figure 46: 99 Percent OBW measured at ch.0

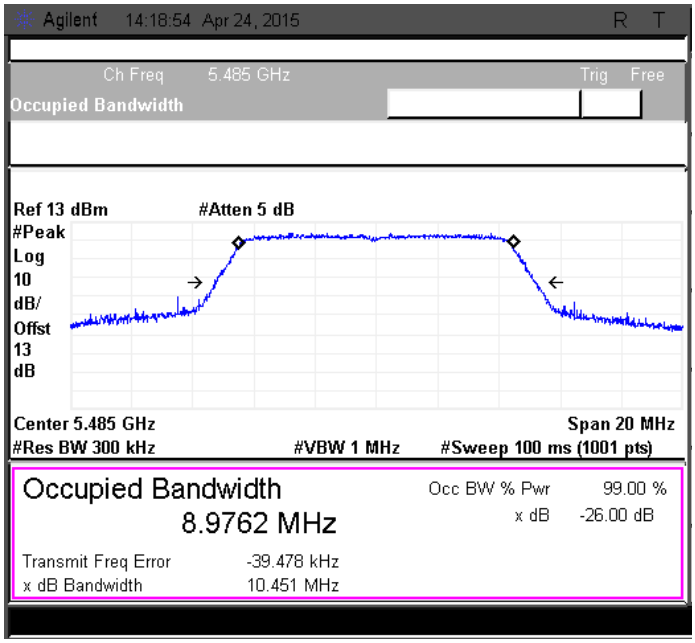

Figure 47: 99 Percent OBW measured at ch.1

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.2.5.5 10MHz Modulation BW-Mid channel_5550MHz

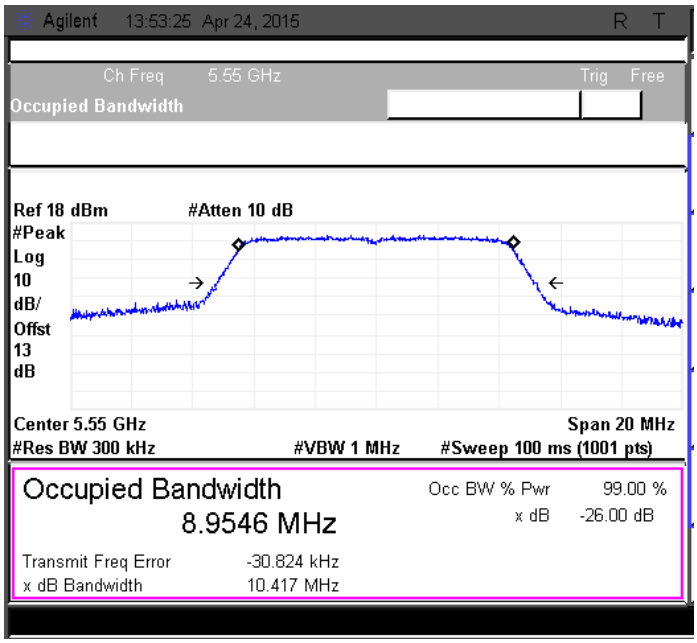

Figure 48: 99 Percent OBW measured at ch.0

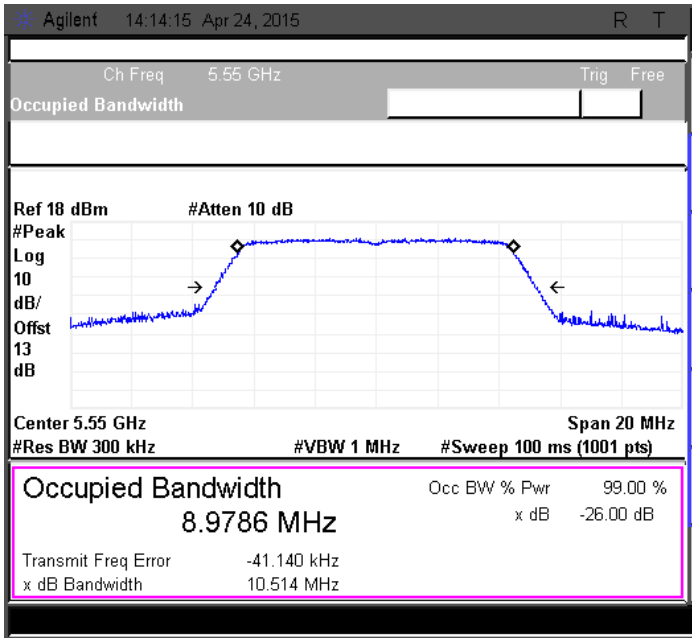

Figure 49: 99 Percent OBW measured at ch.1

5.3.2.5.6 10MHz Modulation BW-High channel_5710MHz

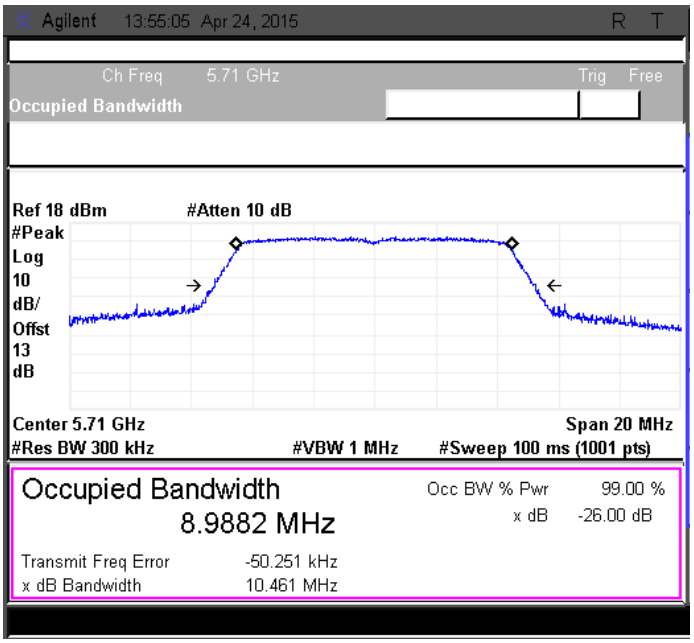

Figure 50: 99 Percent OBW measured at ch.0

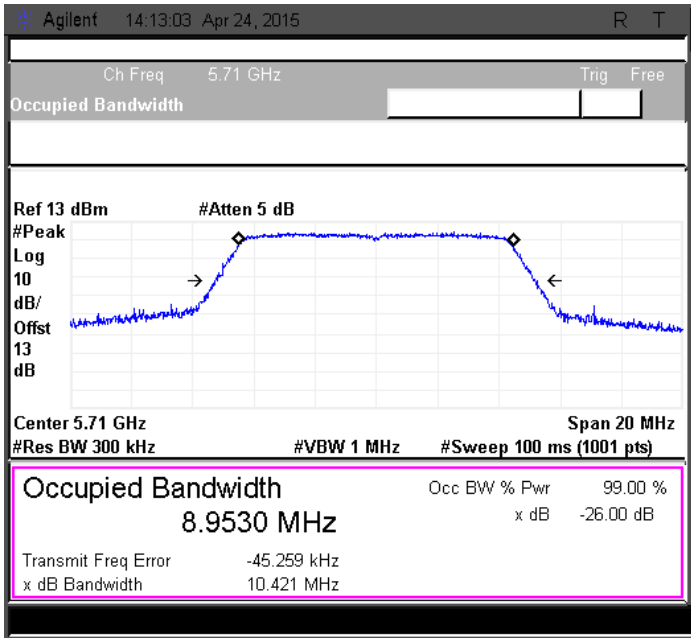

Figure 51: 99 Percent OBW measured at ch.1

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

5.3.2.6.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

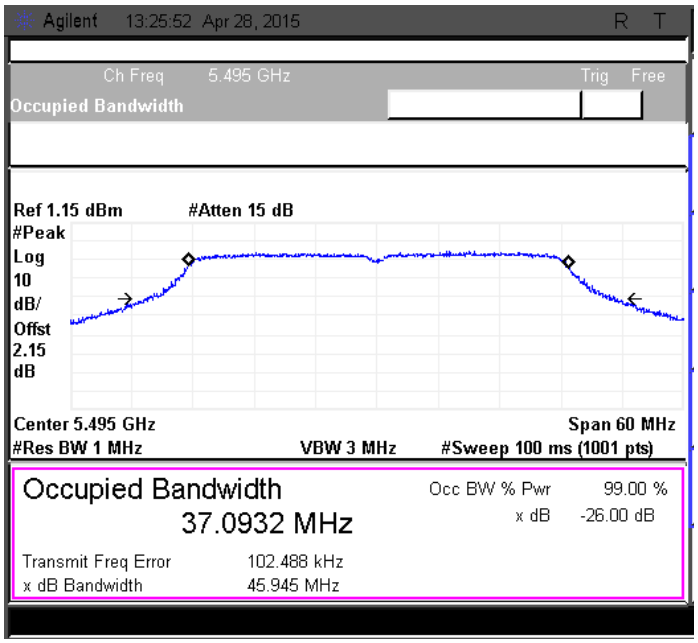

Figure 52: 99 Percent OBW measured at ch.0

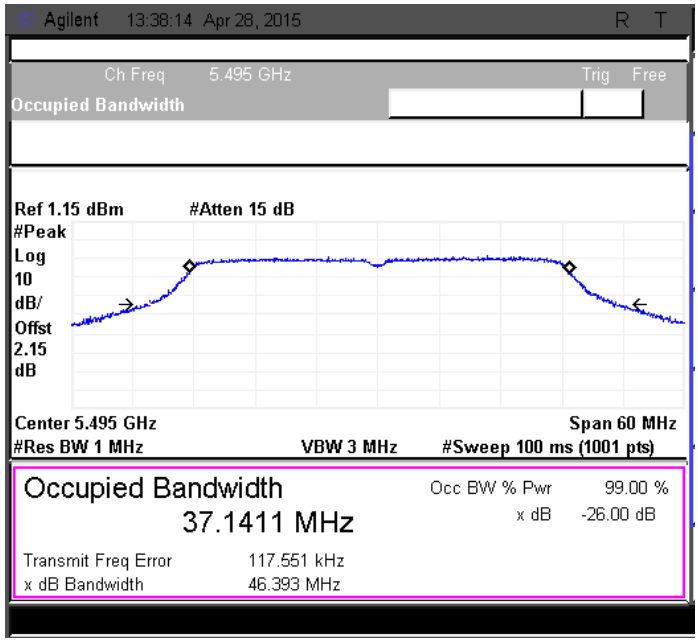

Figure 53: 99 Percent OBW measured at ch.1

5.3.2.6.2 40MHz MODULATION BW -MID CHANNEL_5550 MHz

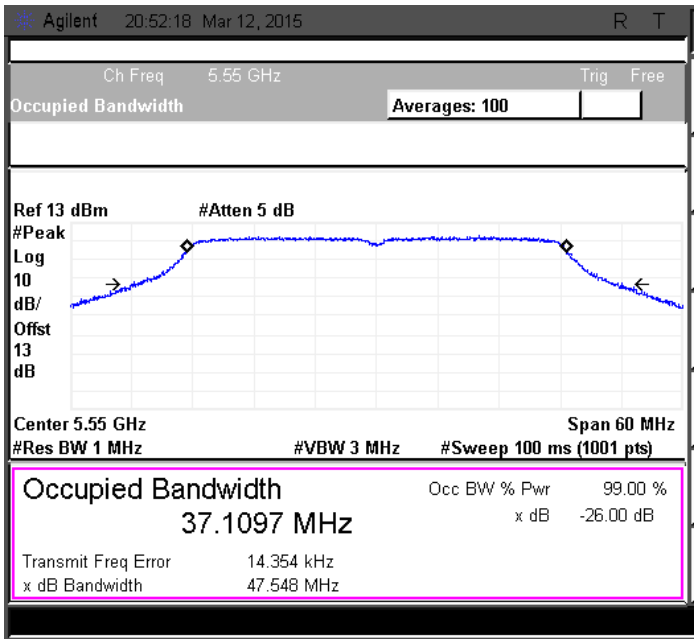

Figure 54: 99 Percent OBW measured at ch.0

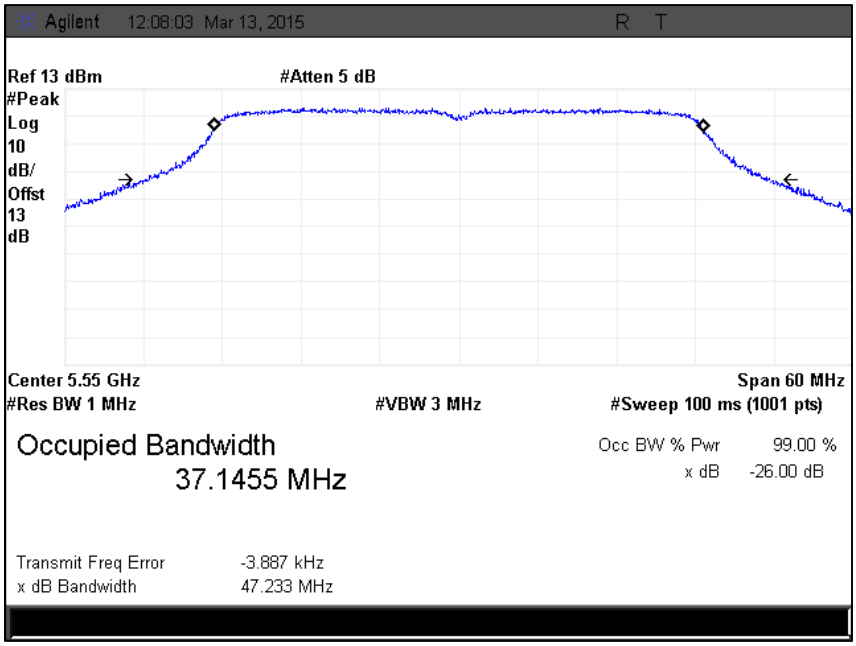

Figure 55: 99 Percent OBW measured at ch.1

5.3.2.6.3 40MHz MODULATION BW -HIGH CHANNEL_5700MHz

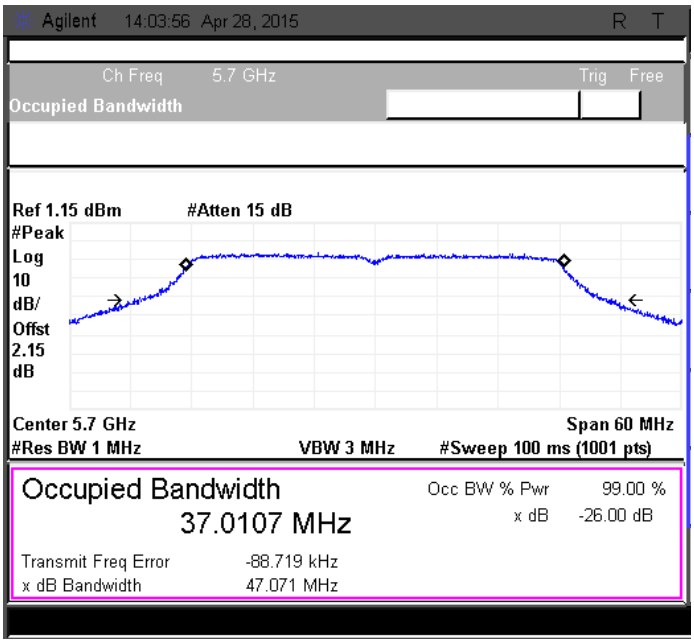

Figure 56: 99 Percent OBW measured at ch.0

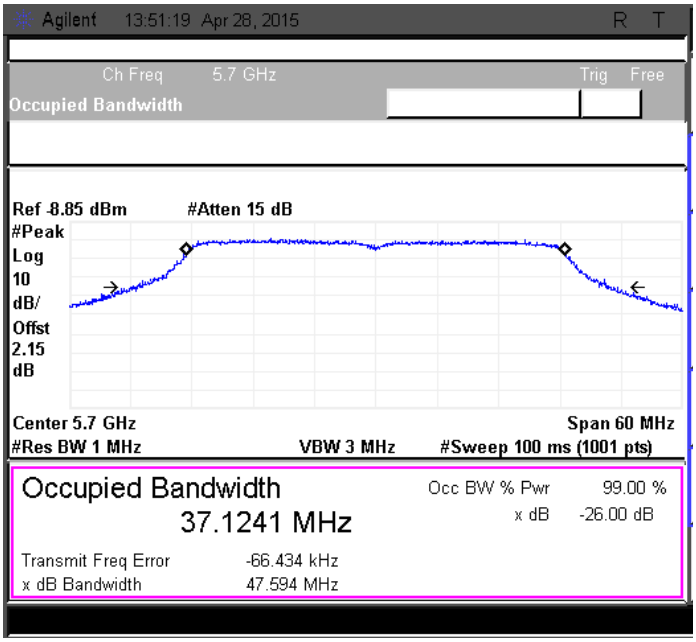

Figure 57: 99 Percent OBW measured at ch.1

5.3.2.6.4 10MHz Modulation BW-Low channel_5485 MHz

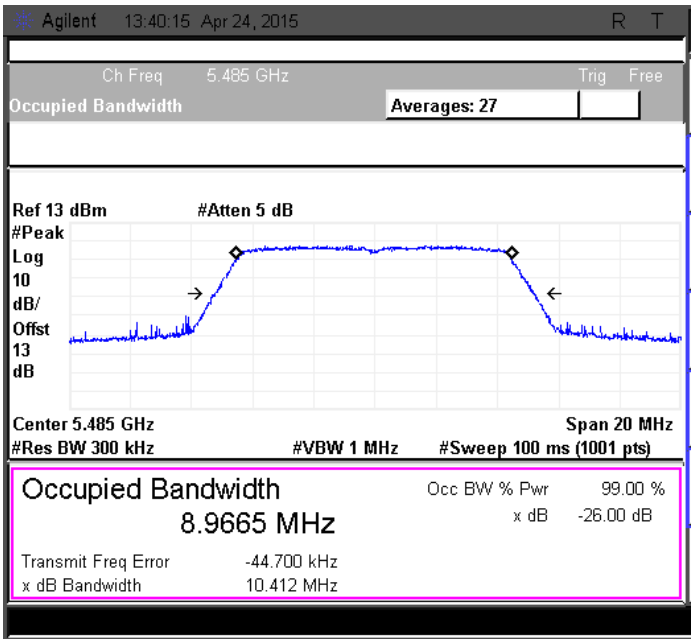

Figure 58: 99 Percent OBW measured at ch.0

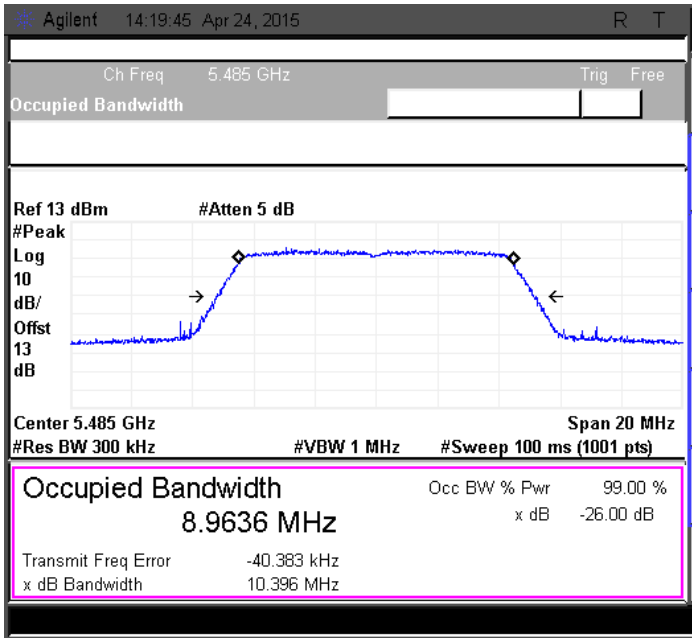

Figure 59: 99 Percent OBW measured at ch.1

5.3.2.6.5 10MHz Modulation BW-Mid channel_5550 MHz

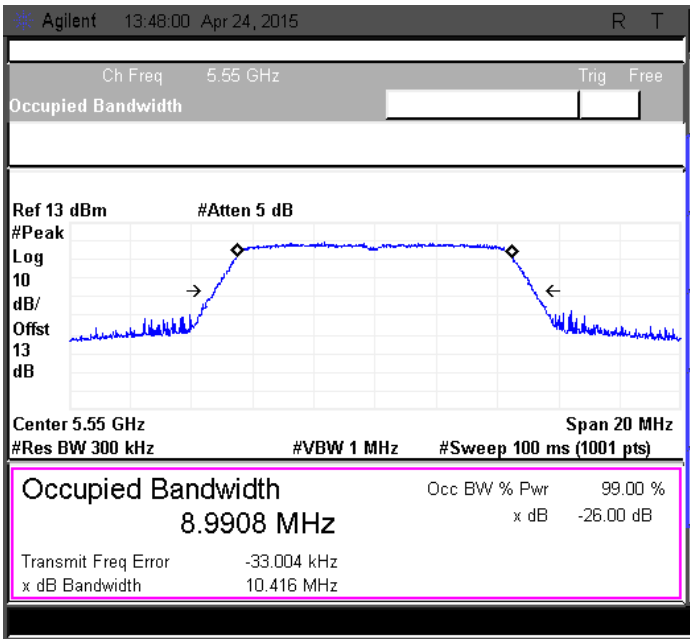

Figure 60: 99 Percent OBW measured at ch.0

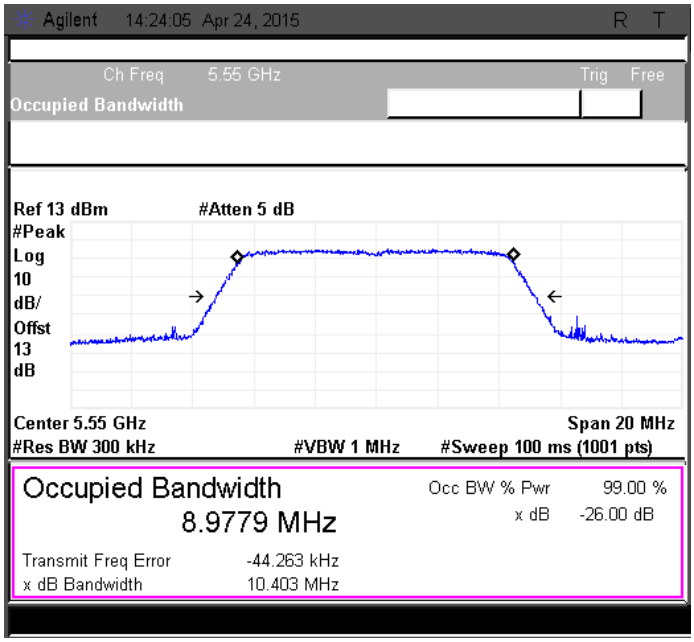

Figure 61: 99 Percent OBW measured at ch.1

5.3.2.6.6 10MHz Modulation BW-High channel_5710 MHz

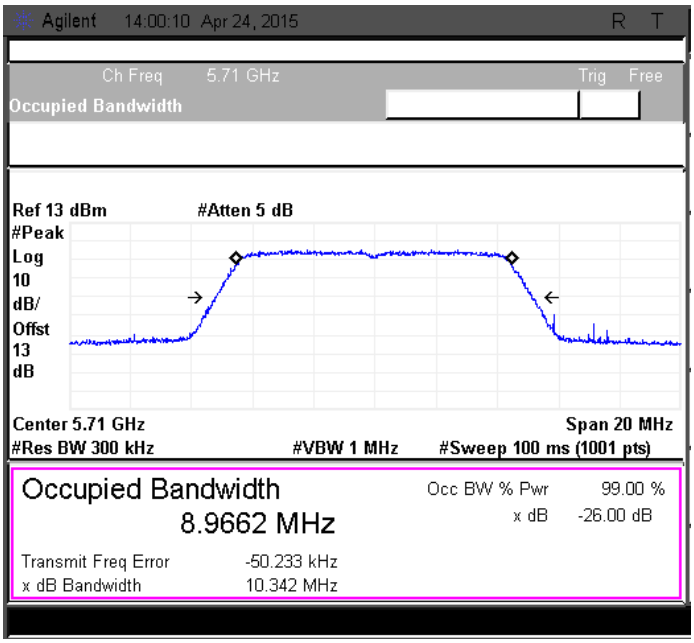

Figure 62: 99 Percent OBW measured at ch.0

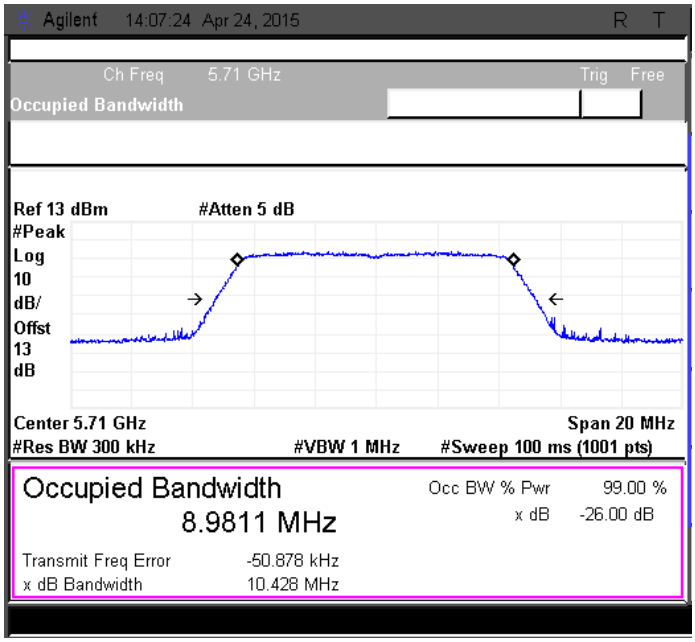

Figure 63: 99 Percent OBW measured at ch.1

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

5.3.2.7.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

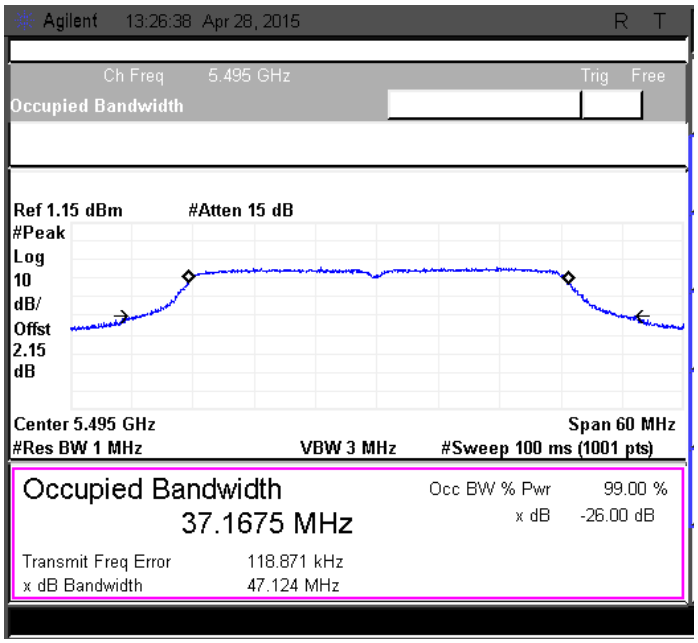

Figure 64: 99 Percent OBW measured at ch.0

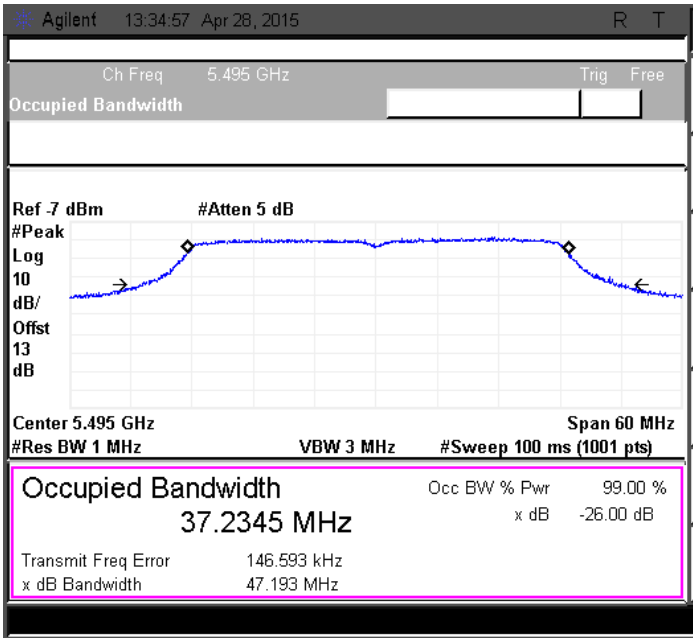

Figure 65: 99 Percent OBW measured at ch.1

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5.3.2.7.2 40MHz Modulation BW -Mid channel_5550 MHz

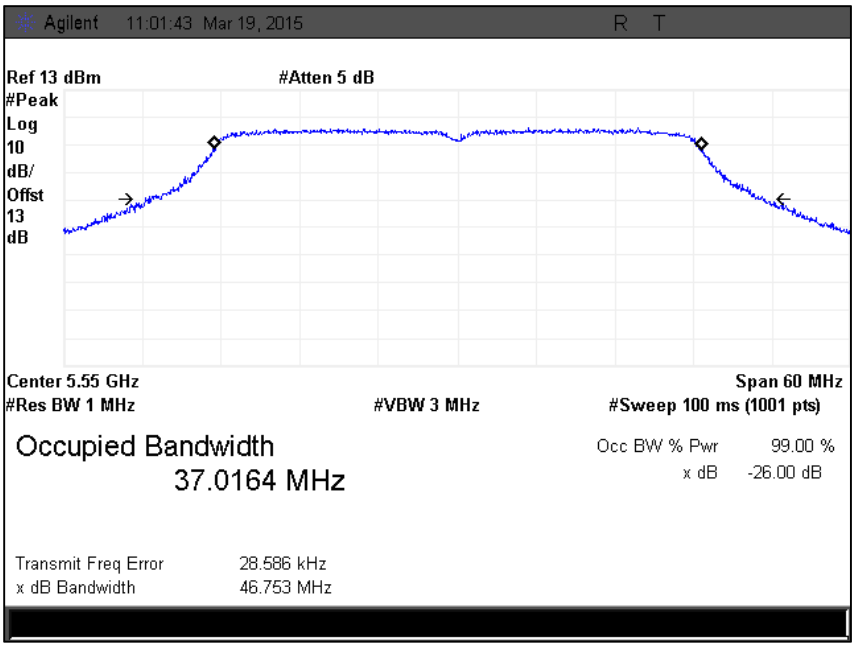

Figure 66: 99 Percent OBW measured at ch.0

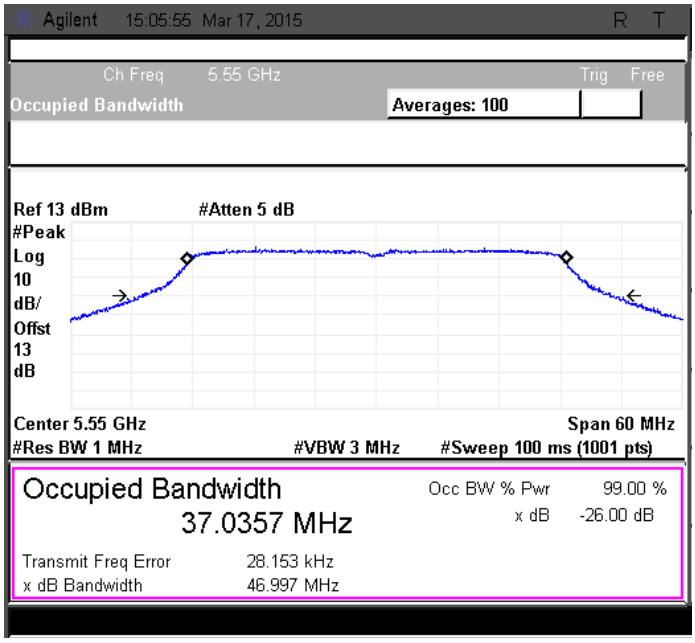

Figure 67: 99 Percent OBW measured at ch.1

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5.3.2.7.3 40MHz MODULATION BW -HIGH CHANNEL_5700MHz

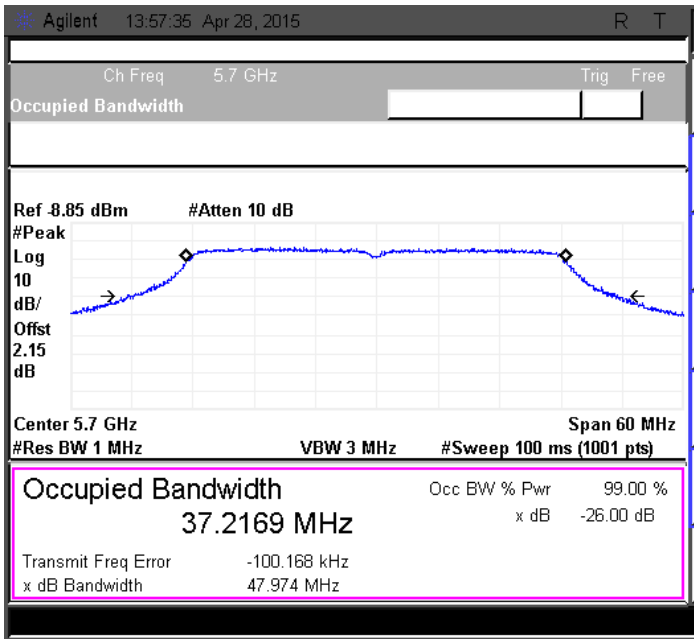

Figure 68: 99 Percent OBW measured at ch.0

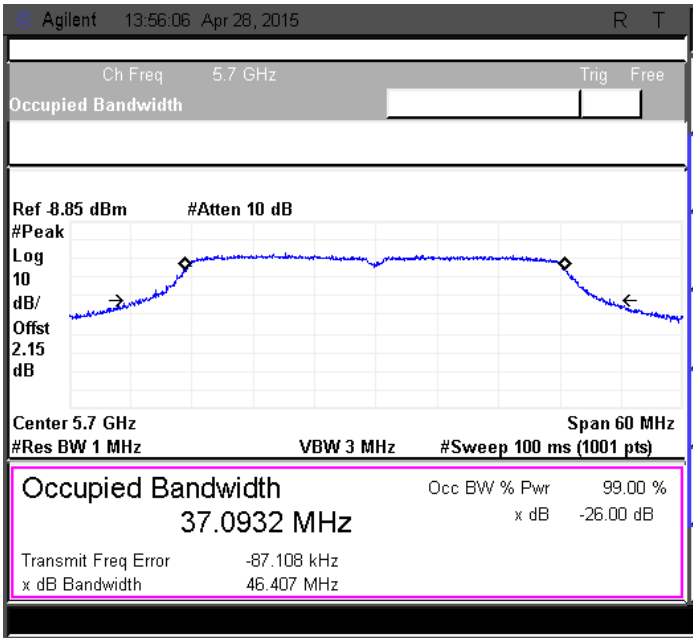

Figure 69: 99 Percent OBW measured at ch.1

5.3.2.7.4 10MHz Modulation BW-Low channel_5485 MHz

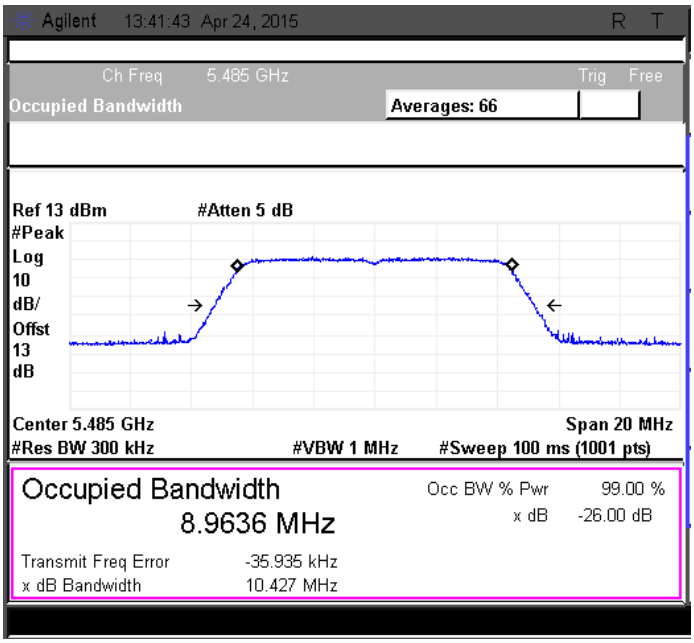

Figure 70: 99 Percent OBW measured at ch.0

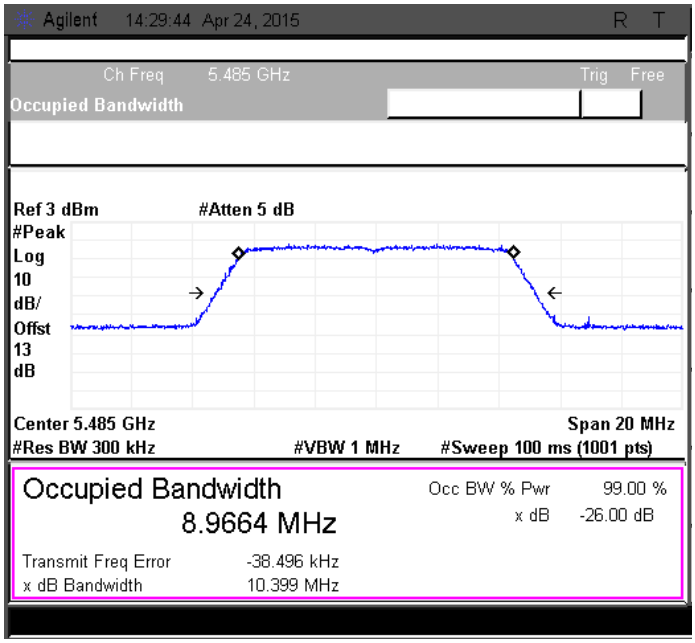

Figure 71: 99 Percent OBW measured at ch.1

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5.3.2.7.5 10MHz Modulation BW-Mid channel_5550 MHz

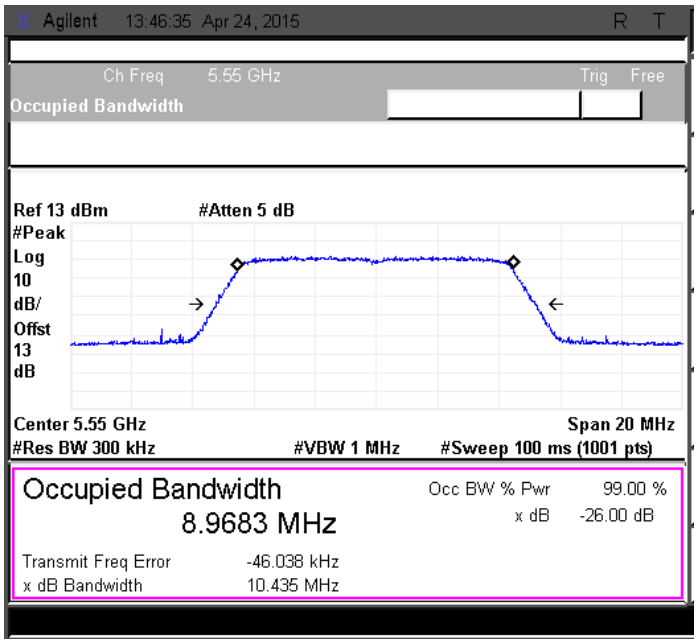

Figure 72: 99 Percent OBW measured at ch.0

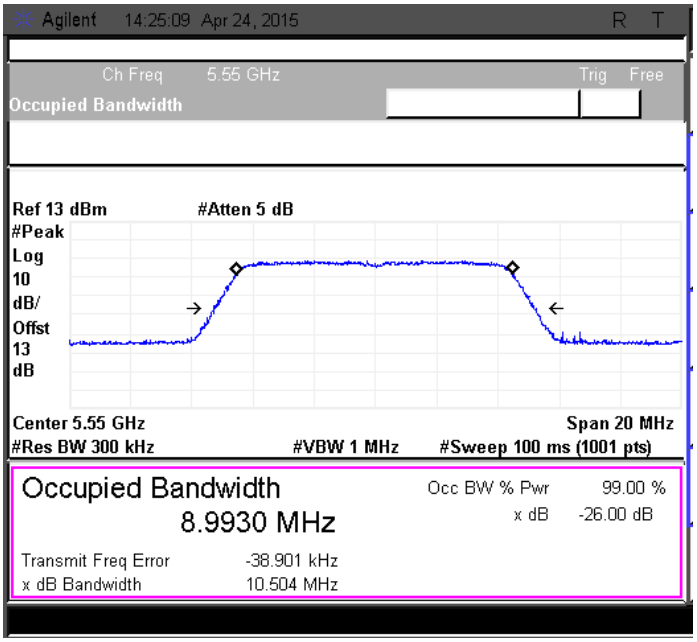

Figure 73: 99 Percent OBW measured at ch.1

5.3.2.7.6 10MHz MODULATION BW-HIGH CHANNEL_5710 MHz

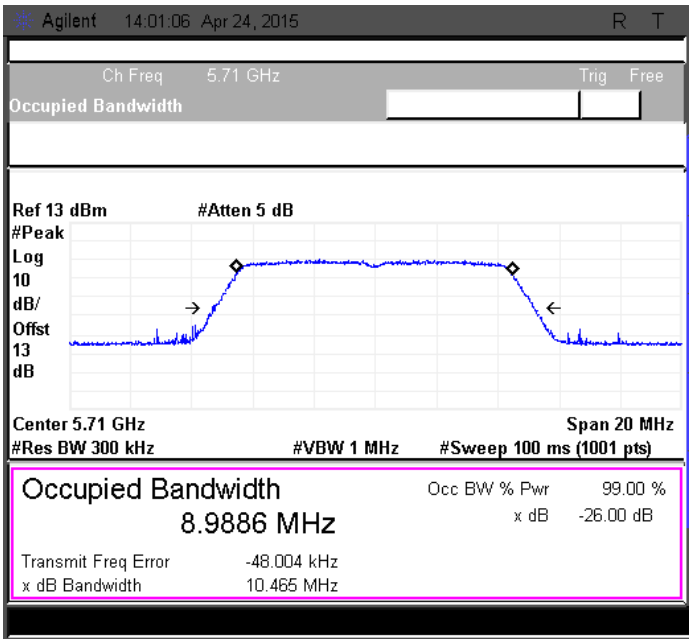

Figure 74: 99 Percent OBW measured at ch.0

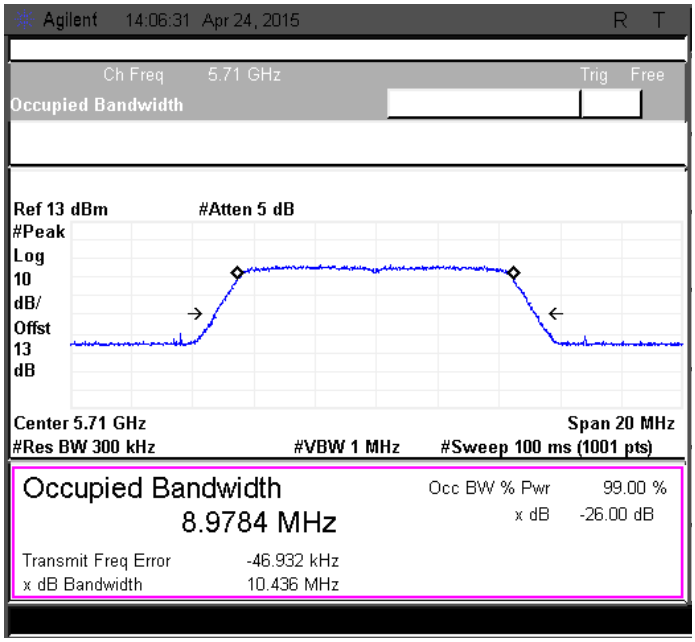

Figure 75: 99 Percent OBW measured at ch.1

5.3.2.8 RESULT

99 Percent Occupied Bandwidth for all channels in both 40MHz & 10MHz Modulation Bandwidths has been measured and tabulated in below table.

Test Condition	Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (MHz)
Basic	40	Ch. 0	5495	37.0997
Basic	40	Ch. 0	5550	37.0914
Basic	40	Ch. 0	5700	37.1992
Basic	40	Ch. 1	5495	37.0644
Basic	40	Ch. 1	5550	37.2017
Basic	40	Ch. 1	5700	37.1447
Basic	10	Ch. 0	5485	8.9663
Basic	10	Ch. 0	5550	8.9546
Basic	10	Ch. 0	5710	8.9882
Basic	10	Ch. 1	5485	8.9762
Basic	10	Ch. 1	5550	8.9786
Basic	10	Ch. 1	5710	8.9530
17dBi Antenna	40	Ch. 0	5495	37.0932
17dBi Antenna	40	Ch. 0	5550	37.1097
17dBi Antenna	40	Ch. 0	5700	37.0717
17dBi Antenna	40	Ch. 1	5495	37.1411
17dBi Antenna	40	Ch. 1	5550	37.1455
17dBi Antenna	40	Ch. 1	5700	37.1241
17dBi Antenna	10	Ch. 0	5485	8.9665
17dBi Antenna	10	Ch. 0	5550	8.9908
17dBi Antenna	10	Ch. 0	5710	8.9662
17dBi Antenna	10	Ch. 1	5485	8.9636
17dBi Antenna	10	Ch. 1	5550	8.9779
17dBi Antenna	10	Ch. 1	5710	8.9811
24dBi Dish	40	Ch. 0	5495	37.1675
24dBi Dish	40	Ch. 0	5550	37.0164
24dBi Dish	40	Ch. 0	5700	37.2169
24dBi Dish	40	Ch. 1	5495	37.2345
24dBi Dish	40	Ch. 1	5550	37.0357
24dBi Dish	40	Ch. 1	5700	37.0932
24dBi Dish	10	Ch. 0	5485	8.9636
24dBi Dish	10	Ch. 0	5550	8.9683
24dBi Dish	10	Ch. 0	5710	8.9889
24dBi Dish	10	Ch. 1	5485	8.9664
24dBi Dish	10	Ch. 1	5550	8.9930
24dBi Dish	10	Ch. 1	5710	8.9784

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5.3.3 MAXIMUM CONDUCTED OUTPUT POWER

5.3.3.1 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
Resolution Bandwidth	1 MHz
Video Bandwidth	3 MHz
Sweep Time	100ms
Attenuation	Auto
Test Mode	Conducted
Detector	Average
Input Voltage	120V AC
Input Frequency	60 Hz
Temperature	22.0°C
Humidity	56.0%
Tested By	Harsha K
Test Date	12th Mar 2015 to 28th Apr 2015

5.3.3.2 LIMITS

As per 15.407 (a) (2) we need to select 250nW (24dBm) limit or 11+10log(B)dBm whichever is lower.
Where, B is 26dB emission bandwidth

Below limit is used if the transmit antenna gain is less than 6dBi

Modulation Bandwidth (MHz)	Fixed Limit as per standard (dBm)	Calculated Limit (dBm)	Limit to be considered (2 chains) (dBm)	Limit to be considered (1 chain) (dBm)
40	24	27.02059991	24	21
10	24	21	21	18

For Cambium, we have 17dBi External antenna. So limits to be considered as per below table

Modulation Bandwidth (MHz)	Limit as per above table (dBm)	Limit to be considered (2 chains) (dBm)	Limit to be considered (1 chain) (dBm)
40	24	13	10
10	21	10	7

Here the limit is reduced by 11dBm as per clause given in standard that if antenna gain is more than 6dBi, the limit should be reduced by the amount in dB that the gain of the antenna exceeds 6dBi.

Also we have 24dBi dish. So limits to be considered as per below table

Modulation Bandwidth (MHz)	Limit as per above table (dBm)	Limit to be considered (2 chains) (dBm)	Limit to be considered (1 chain) (dBm)
40	24	6	3
10	21	3	0

Here the limit is reduced by 18dBm as per clause given in standard that if antenna gain is more than 6dBi, the limit should be reduced by the amount in dB that the gain of the antenna exceeds 6dBi.

5.3.3.3 TEST SETUP

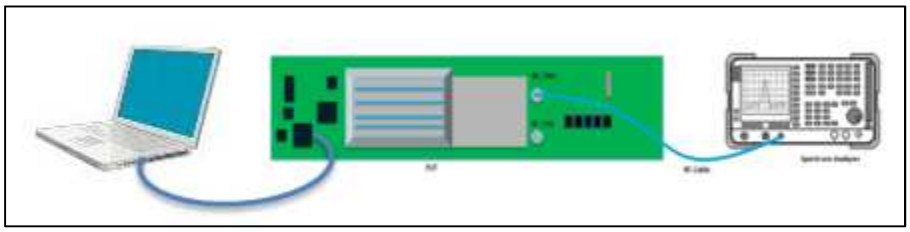

Figure 76: Typical test setup for Conducted RF Test setup

5.3.3.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per the **"789033 D01 General UNII Test Procedures Old Rules v01r04".** 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.

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5.3.3.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.3.5.1 40MHZ MODULATION BW-LOW CHANNEL_5495MHZ

Figure 77: Maximum Conducted Output power measured at ch.0& ch.1

5.3.3.5.2 40MHZ MODULATION BW-MID CHANNEL_5550MHZ

Figure 78: Maximum Conducted Output power measured at ch.0 & ch.1

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5.3.3.5.3 40MHz Modulation BW-High channel_5700MHz

Figure 79: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.5.4 10MHz Modulation BW-Low channel_5485 MHz

Figure 80: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.5.5 10MHz Modulation BW-Mid channel_5550 MHz

Figure 81: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.5.6 10MHz Modulation BW-High channel_5710 MHz

Figure 82: Maximum Conducted Output power measured at ch.0 & ch.1

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

5.3.3.6.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

Figure 83: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.6.2 40MHZ MODULATION BW-MID CHANNEL_5550 MHZ

Figure 84: Maximum Conducted Output power measured at ch.0 & ch.1

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5.3.3.6.3 40MHz Modulation BW-High channel_5700MHz

Figure 85: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.6.4 10MHz Modulation BW-Low channel_5485MHz

Figure 86: Maximum Conducted Output power measured at ch.0 & ch.1

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5.3.3.6.5 10MHz Modulation BW-Mid channel_5550MHz

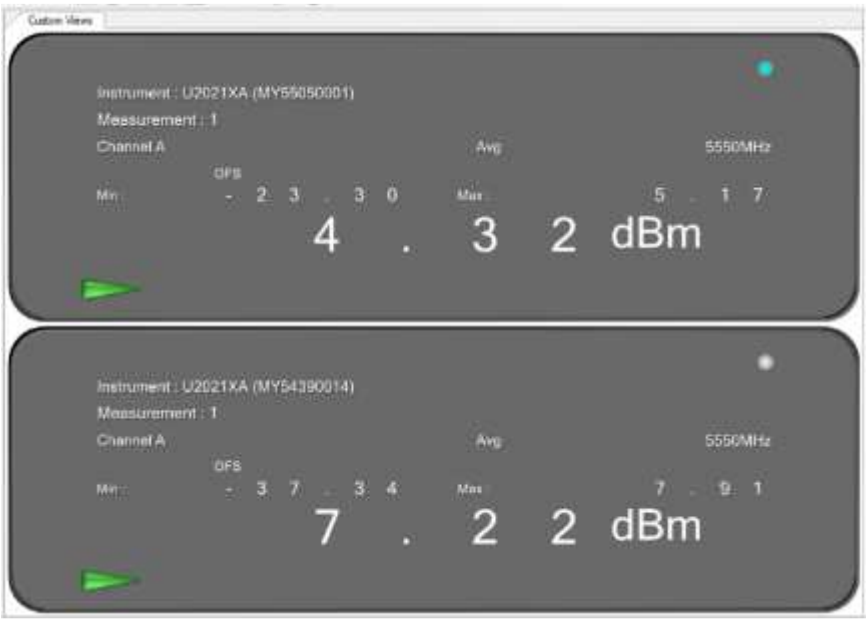

Figure 87: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.6.6 10MHz Modulation BW-High channel_5710MHz

Figure 88: Maximum Conducted Output power measured at ch.0 & ch.1

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

5.3.3.7.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

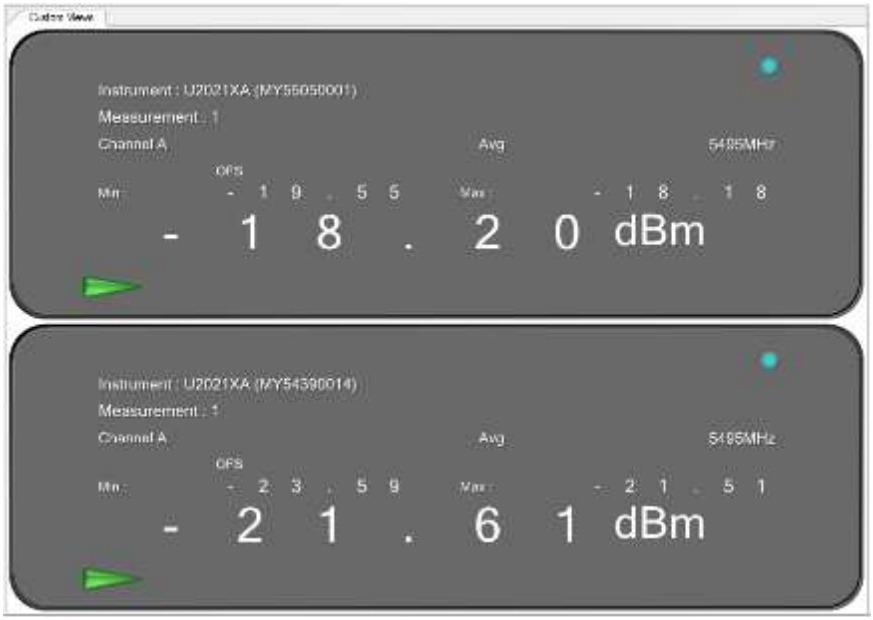

Figure 89: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.7.2 40MHZ MODULATION BW-MID CHANNEL_5550 MHZ

Figure 90: Maximum Conducted Output power measured at ch.0 & ch.1

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5.3.3.7.3 40MHz Modulation BW-High channel_5700MHz

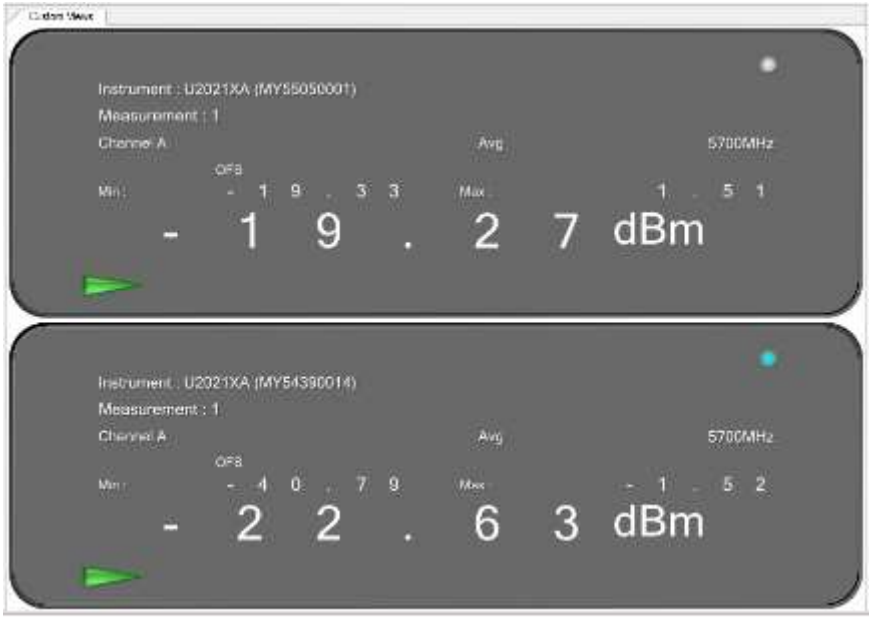

Figure 91: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.7.4 10MHz Modulation BW-Low channel_5485 MHz

Figure 92: Maximum Conducted Output power measured at ch.0 & ch.1

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5.3.3.7.5 10MHz Modulation BW-Mid channel_5550 MHz

Figure 93: Maximum Conducted Output power measured at ch.0 & ch.1

5.3.3.7.6 10MHz Modulation BW-High channel_5710 MHz

Figure 94: Maximum Conducted Output power measured at ch.0 & ch.1

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5.3.3.8 RESULT

Maximum Conducted Output power for all channels in both 40MHz &10MHz Modulation Bandwidths is within the specified limit. Refer below table for consolidated data.

5.3.3.8.1 BASIC CONDITION

Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (dBm)
40	Ch. 0	5495	2.41
40	Ch. 0	5550	17.55
40	Ch. 0	5700	1.37
40	Ch. 1	5495	-0.81
40	Ch. 1	5550	20.27
40	Ch. 1	5700	-1.69
10	Ch. 0	5485	17.08
10	Ch. 0	5550	17.9
10	Ch. 0	5710	17.6
10	Ch. 1	5485	13.89
10	Ch. 1	5550	15.3
10	Ch. 1	5710	14.75

Consolidated values across channels and Final Power

Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Consolidated Power (dBm)	Limit (dBm)	Result
40	Ch. 0& Ch. 1	5495	4.102	24	PASS
40	Ch. 0 & Ch. 1	5550	22.12	24	PASS
40	Ch. 0 & Ch. 1	5700	3.11	24	PASS
10	Ch. 0 & Ch. 1	5485	18.78	21	PASS
10	Ch. 0 & Ch. 1	5550	19.8	21	PASS
10	Ch. 0 & Ch. 1	5710	19.41	21	PASS

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5.3.3.8.2 17DBI ANTENNA CONDITION

Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (dBm)
40	Ch. 0	5495	-9.31
40	Ch. 0	5550	8.4
40	Ch. 0	5700	-10.35
40	Ch. 1	5495	-12.74
40	Ch. 1	5550	5.41
40	Ch. 1	5700	-13.82
10	Ch. 0	5485	7.35
10	Ch. 0	5550	7.22
10	Ch. 0	5710	6.56
10	Ch. 1	5485	3.97
10	Ch. 1	5550	4.32
10	Ch. 1	5710	3.54

Consolidated values across channels and Final Power

Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Consolidated Power (dBm)	Limit (dBm)	Result
40	Ch. 0& Ch. 1	5495	-7.684	13	PASS
40	Ch. 0 & Ch. 1	5550	10.16	13	PASS
40	Ch. 0 & Ch. 1	5700	-8.73	13	PASS
10	Ch. 0 & Ch. 1	5485	8.99	10	PASS
10	Ch. 0 & Ch. 1	5550	9.01	10	PASS
10	Ch. 0 & Ch. 1	5710	8.317	10	PASS

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5.3.3.8.3 24DBI DISH CONDITION

Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (dBm)
40	Ch. 0	5495	-8.2
40	Ch. 0	5550	2.66
40	Ch. 0	5700	-19.27
40	Ch. 1	5495	-21.61
40	Ch. 1	5550	-0.64
40	Ch. 1	5700	-22.63
10	Ch. 0	5485	0.63
10	Ch. 0	5550	0.92
10	Ch. 0	5710	0.28
10	Ch. 1	5485	-3.02
10	Ch. 1	5550	-2.33
10	Ch. 1	5710	-3.3

Consolidated values across channels and Final Power

Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Consolidated Power (dBm)	Limit (dBm)	Result
40	Ch. 0& Ch. 1	5495	-16.58	6	PASS
40	Ch. 0 & Ch. 1	5550	4.32	6	PASS
40	Ch. 0 & Ch. 1	5700	-17.62	6	PASS
10	Ch. 0 & Ch. 1	5485	2.18	3	PASS
10	Ch. 0 & Ch. 1	5550	2.602	3	PASS
10	Ch. 0 & Ch. 1	5710	1.85	3	PASS

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5.3.4 PEAK POWER SPECTRAL DENSITY

5.3.4.1 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	5470MHz to 5725MHz
Resolution Bandwidth	1MHz
Video Bandwidth	3MHz
Sweep Time	100msec
Attenuation	Auto
Test Mode	Conducted
Detector	Average
Input Voltage	120V AC
Input Frequency	60 Hz
Temperature	22.0°C
Humidity	56.0%
Tested By	Harsha K
Test Date	12th Mar 2015 to 28thApr 2015

5.3.4.2 LIMITS

Test condition	Limit (dBm/MHz) – 2 chains	Limit (dBm/MHz) – 1 chain
Basic limit	11	8
17dBi External antenna limit	0*	-3*
24dBi dish	-7*	-10*

*: As per standard if antenna gain is more than 6dBi, then the limit should be reduced by the amount in dB that the gain of the antenna exceeds 6dBi

5.3.4.3 TEST SETUP

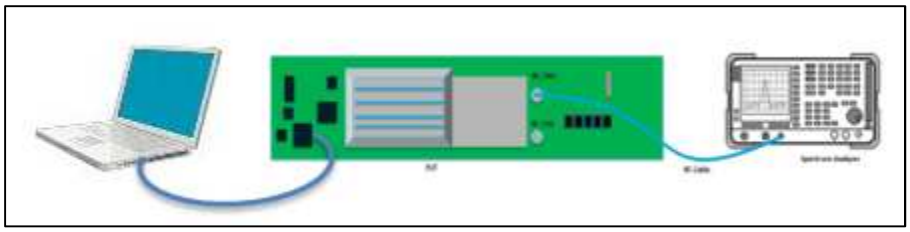

Figure 95: Typical test setup for Conducted Test setup

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5.3.4.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per Sections F & E (2) (b)of **"789033 D01 General UNII Test Procedures Old Rules v01r04".** 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.

5.3.4.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.4.5.1 40MHZ MODULATION BW-LOW CHANNEL_5495MHZ

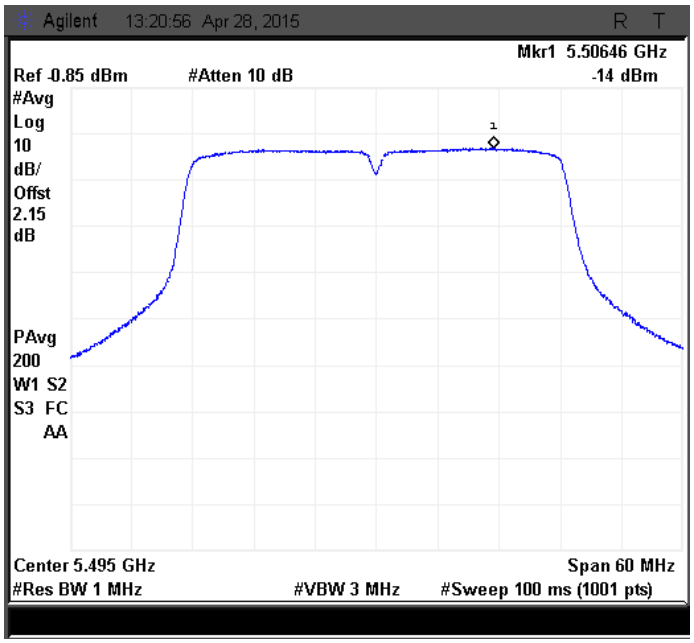

Figure 96: Power Spectral density measured at Ch. 0

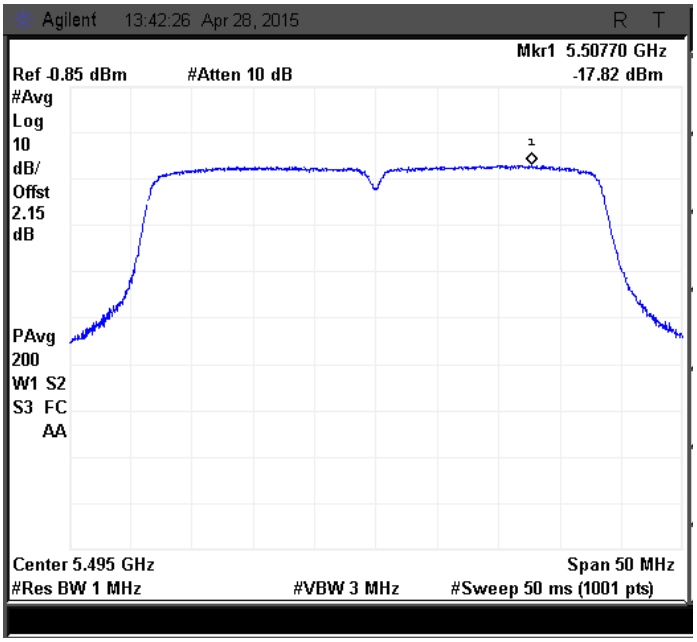

Figure 97: Power Spectral density measured at Ch. 1

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5.3.4.5.2 40MHz MODULATION BW-MID CHANNEL_5550MHz

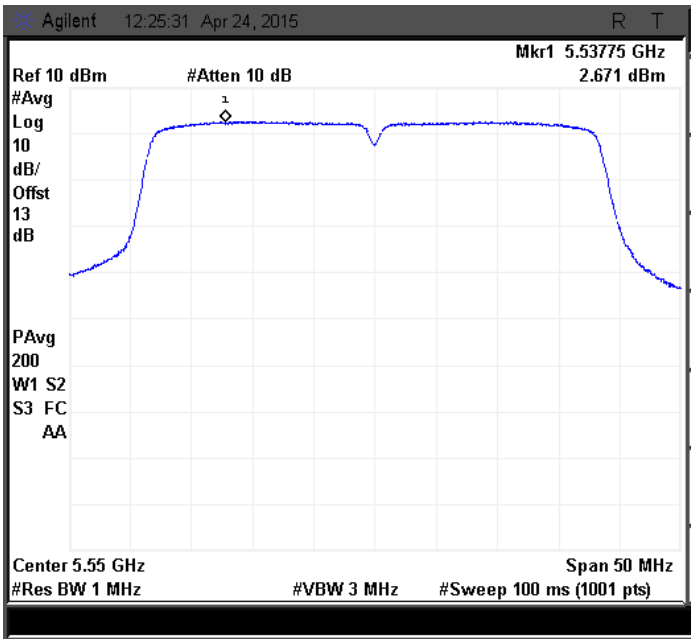

Figure 98: Power Spectral density measured at Ch. 0

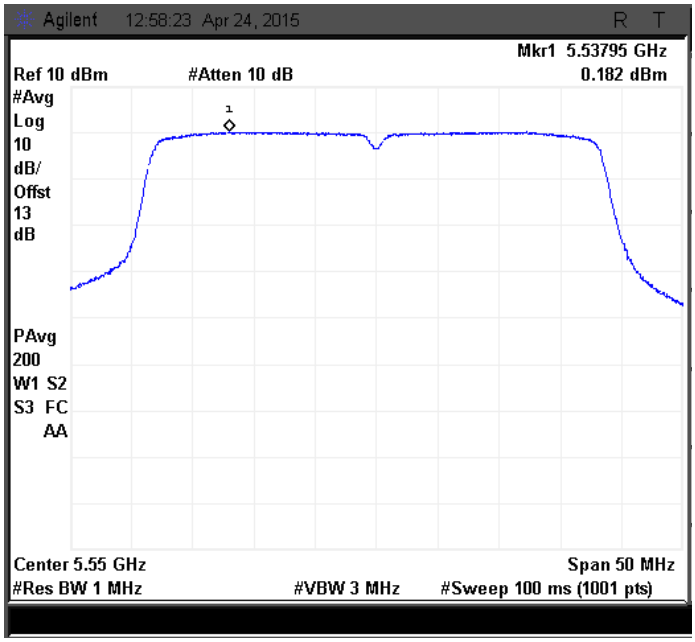

Figure 99: Power Spectral density measured at Ch. 1

5.3.4.5.3 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

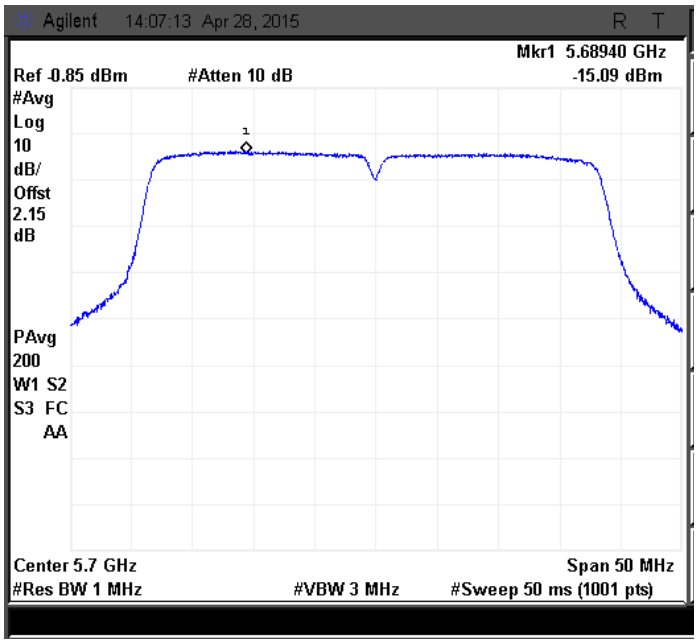

Figure 100: Power Spectral density measured at Ch. 0

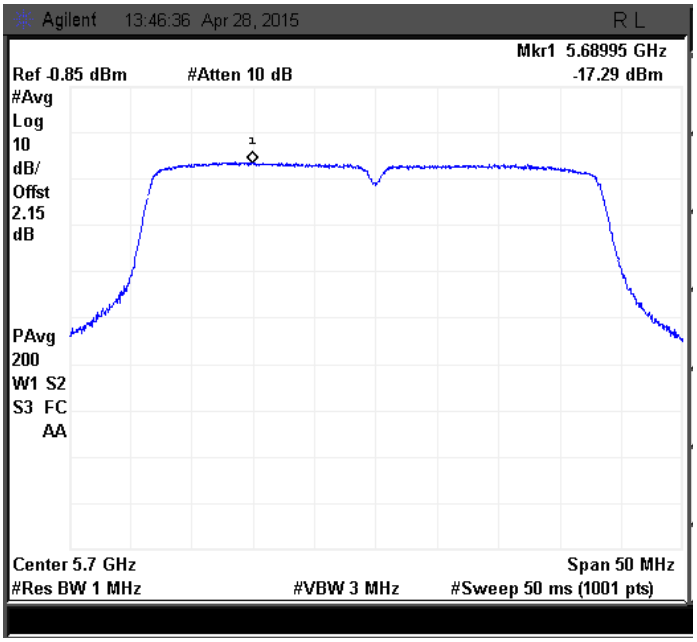

Figure 101: Power Spectral density measured at Ch. 1

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5.3.4.5.4 10MHz Modulation BW-Low channel_5485 MHz

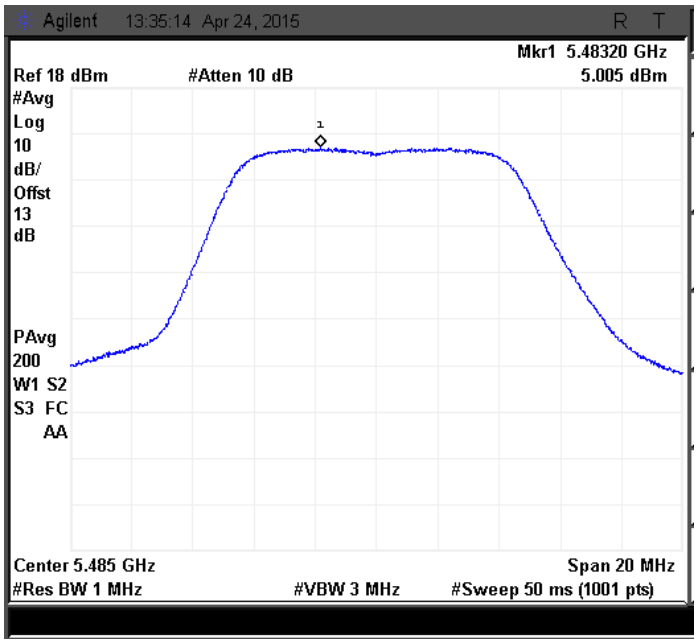

Figure 102: Power Spectral density measured at Ch. 0

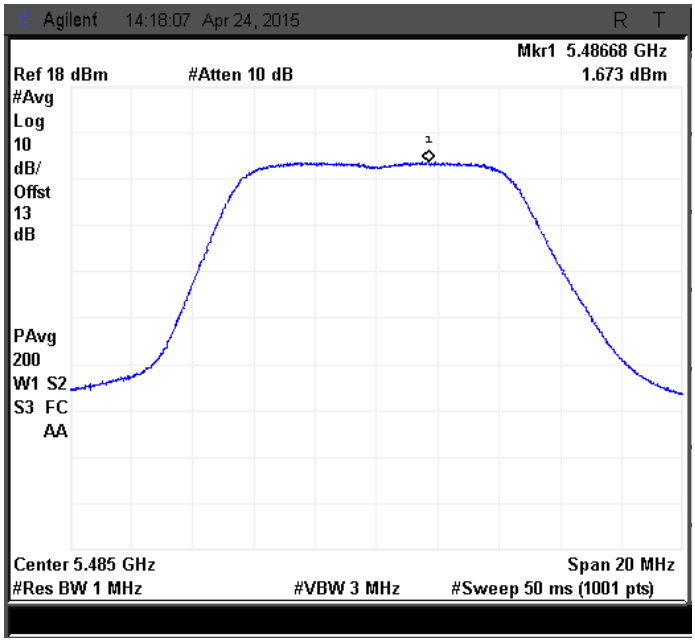

Figure 103: Power Spectral density measured at Ch. 1

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5.3.4.5.5 10MHz Modulation BW-Mid channel_5550 MHz

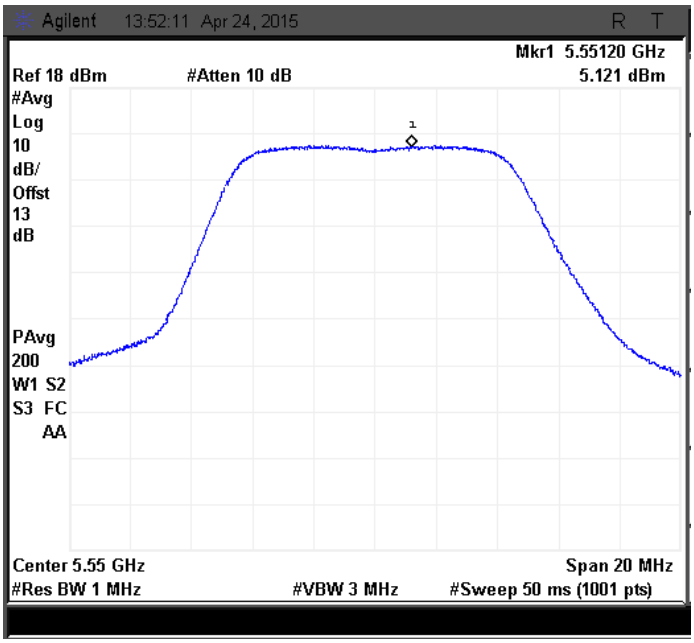

Figure 104: Power Spectral density measured at Ch. 0

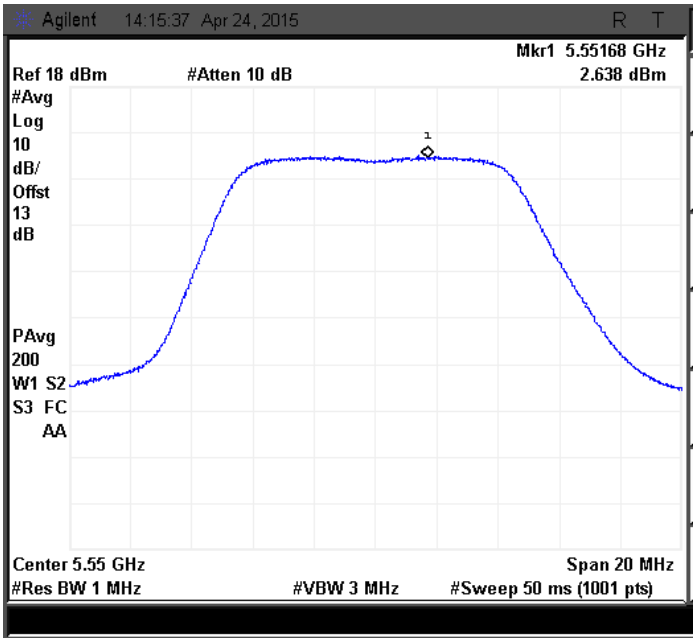

Figure 105: Power Spectral density measured at Ch. 1

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5.3.4.5.6 10MHz Modulation BW-High channel_5710MHz

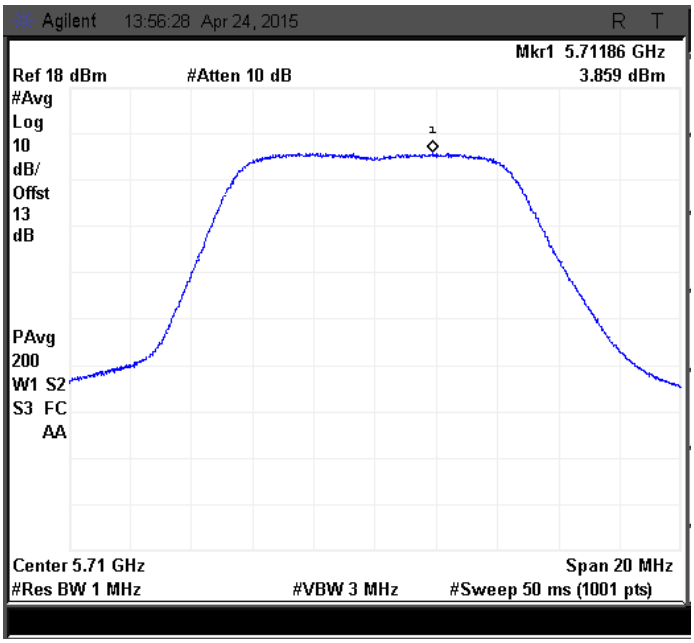

Figure 106: Power Spectral density measured at Ch. 0

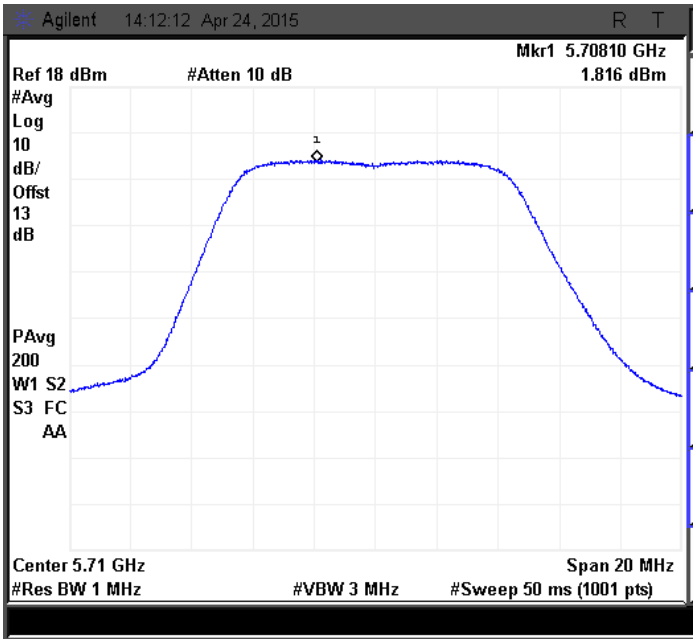

Figure 107: Power Spectral density measured at Ch. 1

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

5.3.4.6.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

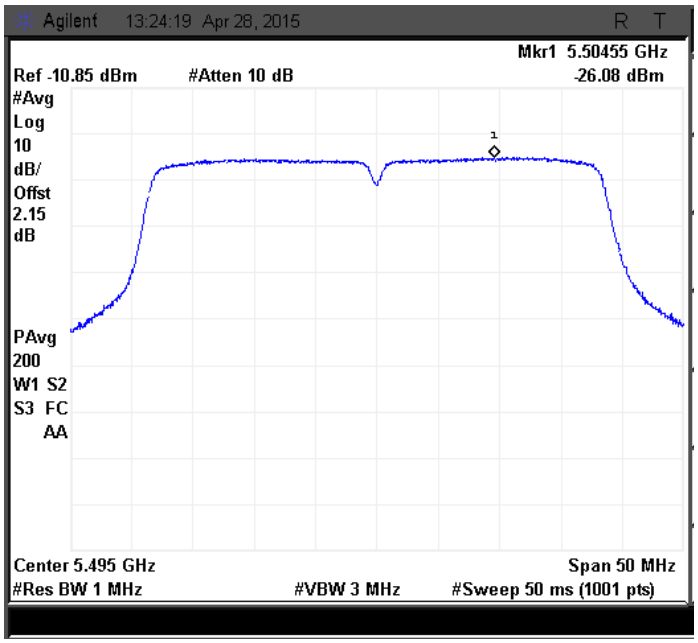

Figure 108: Power Spectral density measured at Ch. 0

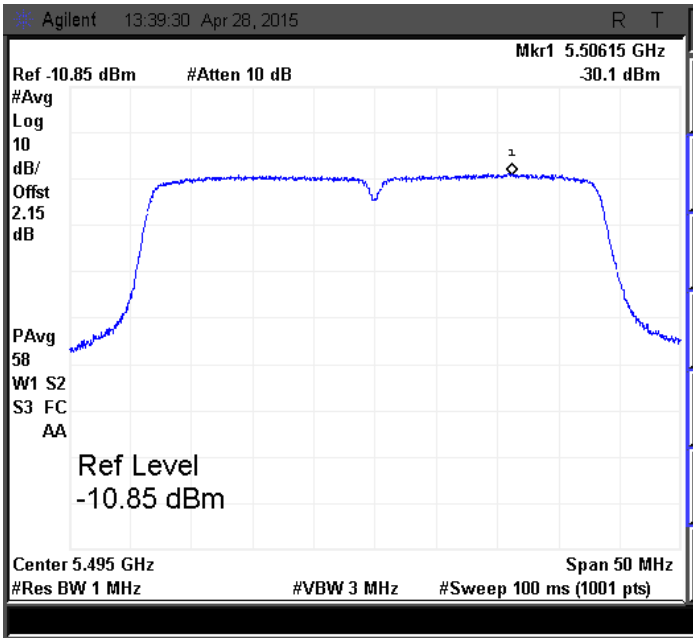

Figure 109: Power Spectral density measured at Ch. 1

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5.3.4.6.2 40MHz MODULATION BW-MID CHANNEL_5550 MHz

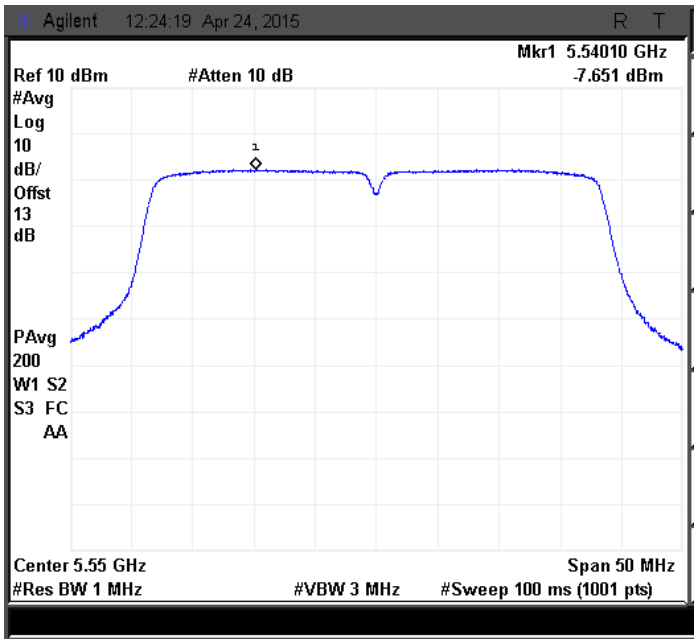

Figure 110: Power Spectral density measured at Ch. 0

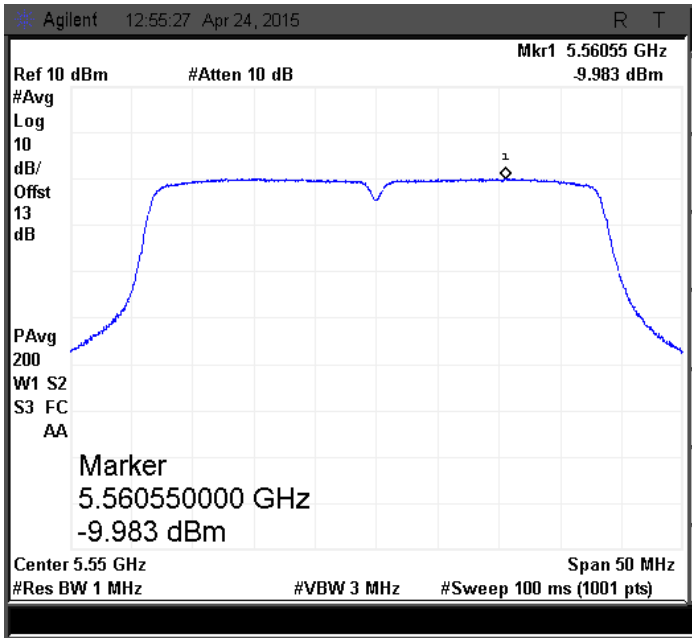

Figure 111: Power Spectral density measured at Ch. 1

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5.3.4.6.3 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

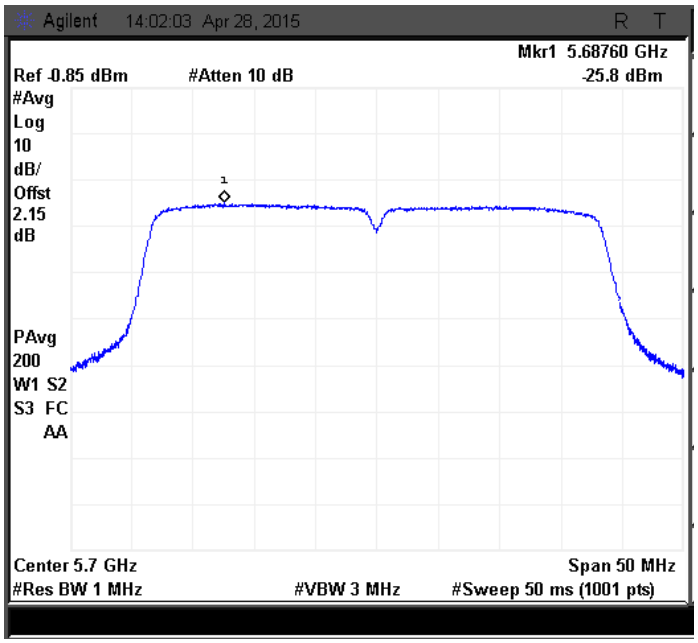

Figure 112: Power Spectral density measured at Ch. 0

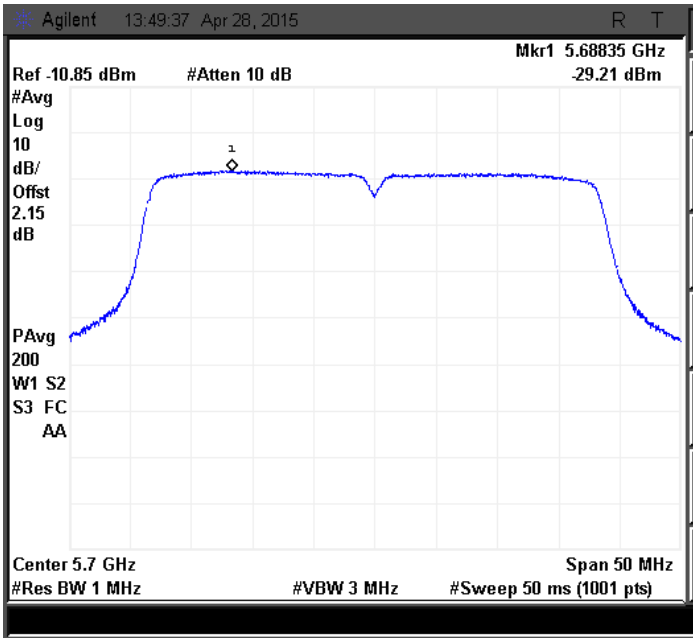

Figure 113: Power Spectral density measured at Ch. 1

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5.3.4.6.4 10MHz Modulation BW-Low hannel_5485MHz

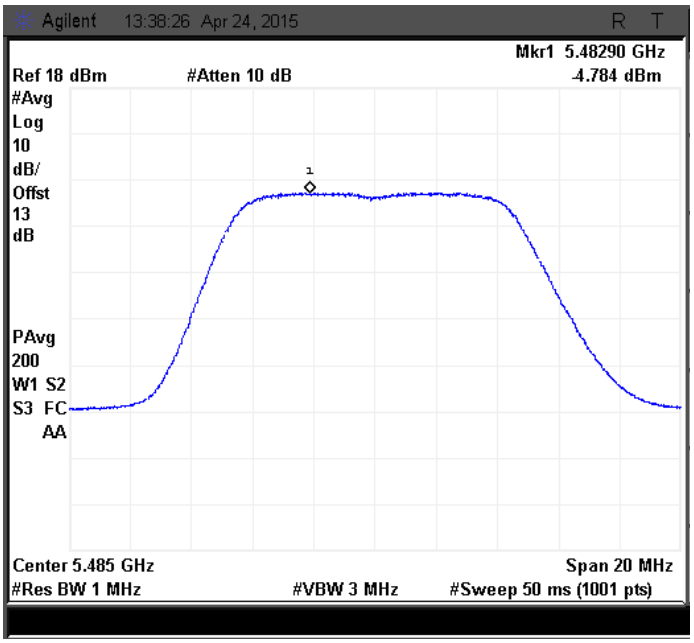

Figure 114: Power Spectral density measured at Ch. 0

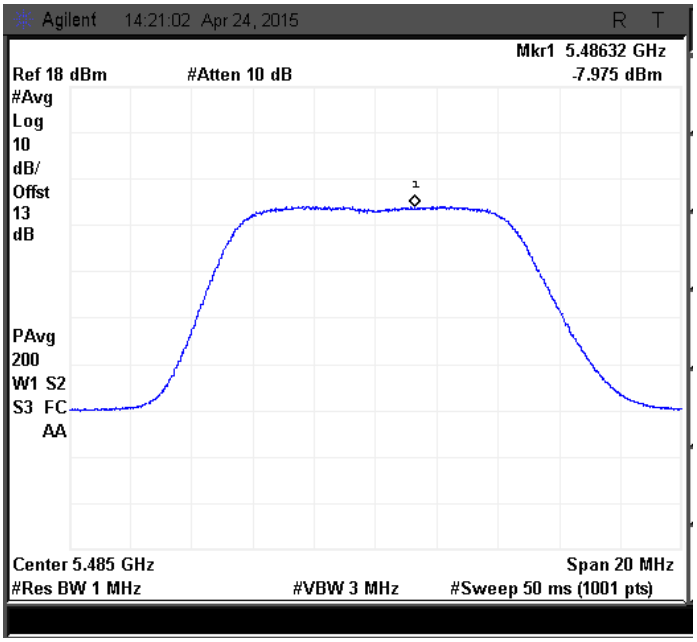

Figure 115: Power Spectral density measured at Ch. 1

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5.3.4.6.5 10MHz Modulation BW-Mid channel_5550MHz

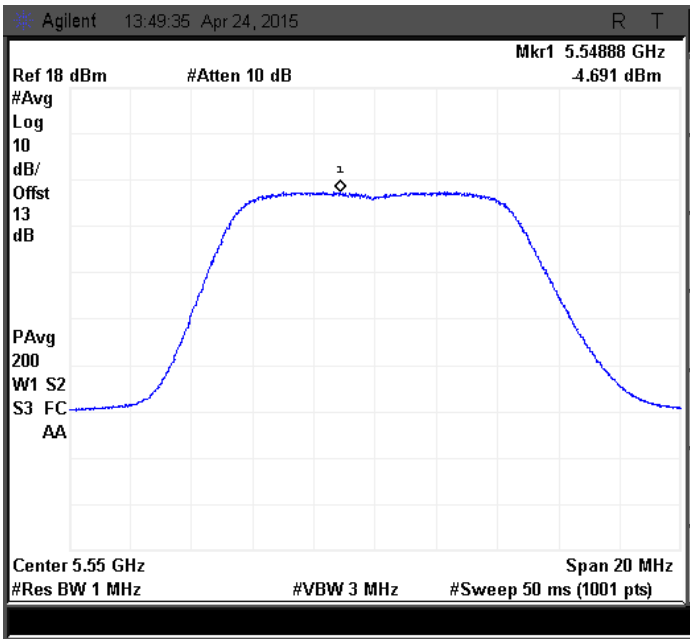

Figure 116: Power Spectral density measured at Ch. 0

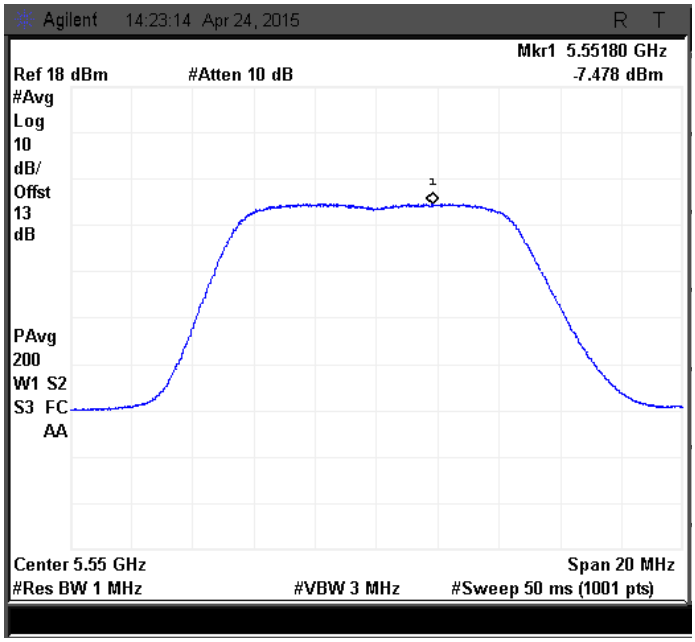

Figure 117: Power Spectral density measured at Ch. 1

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5.3.4.6.6 10MHz MODULATION BW-HIGH CHANNEL_5710MHz

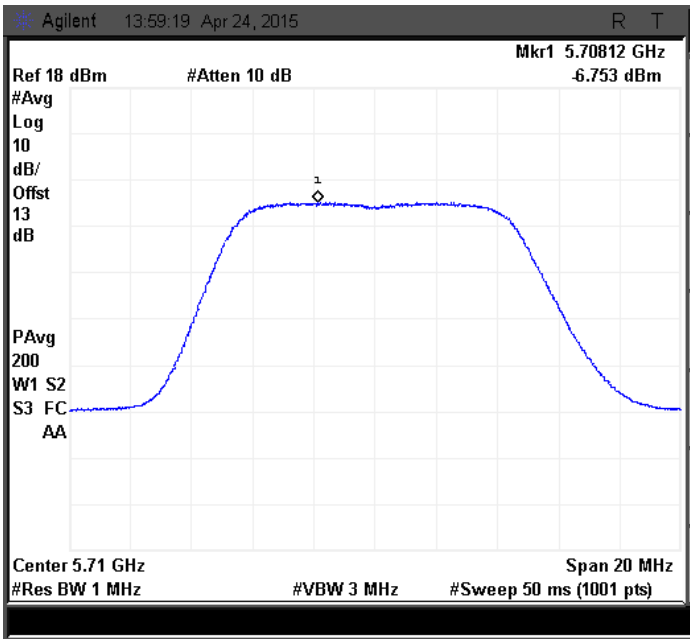

Figure 118: Power Spectral density measured at Ch. 0

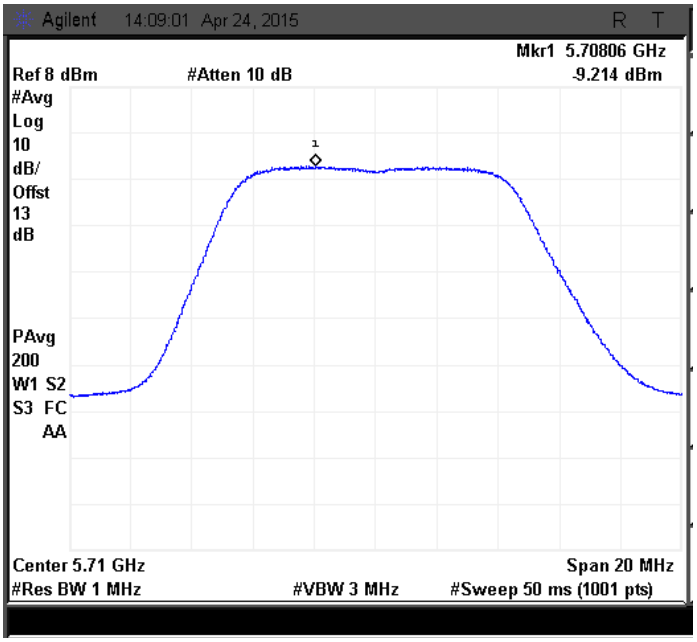

Figure 119: Power Spectral density measured at Ch. 1

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5.3.4.7 RESULT (SUPPORTING GRAPHS / DATA) FOR 24DBI DIDH CONDITION

5.3.4.7.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

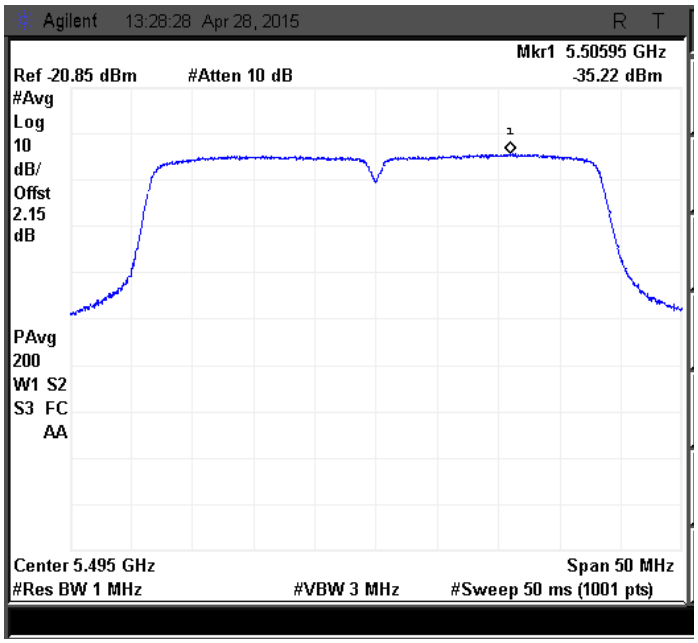

Figure 120: Power Spectral density measured at Ch. 0

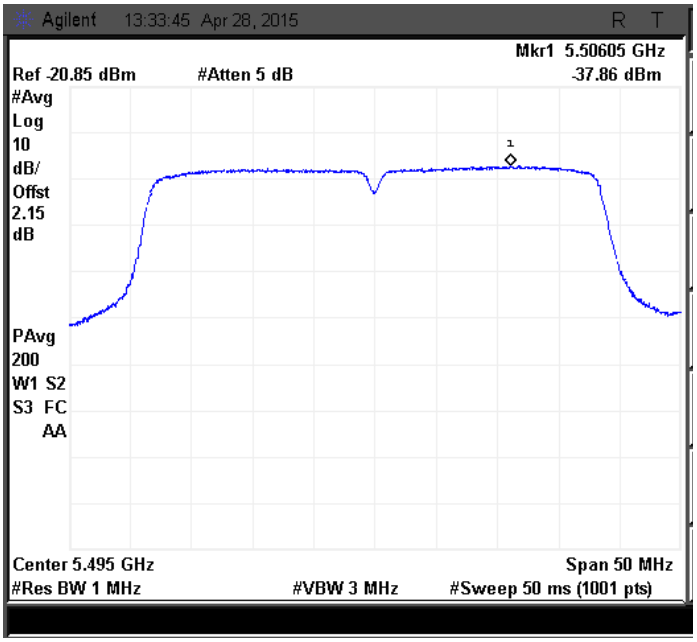

Figure 121: Power Spectral density measured at Ch. 1

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5.3.4.7.2 40MHz MODULATION BW-MID CHANNEL_5550 MHz

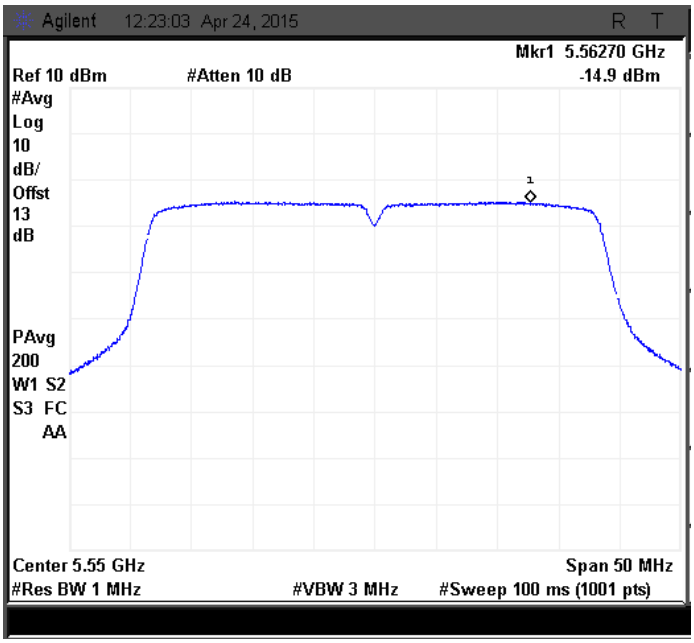

Figure 122: Power Spectral density measured at Ch. 0

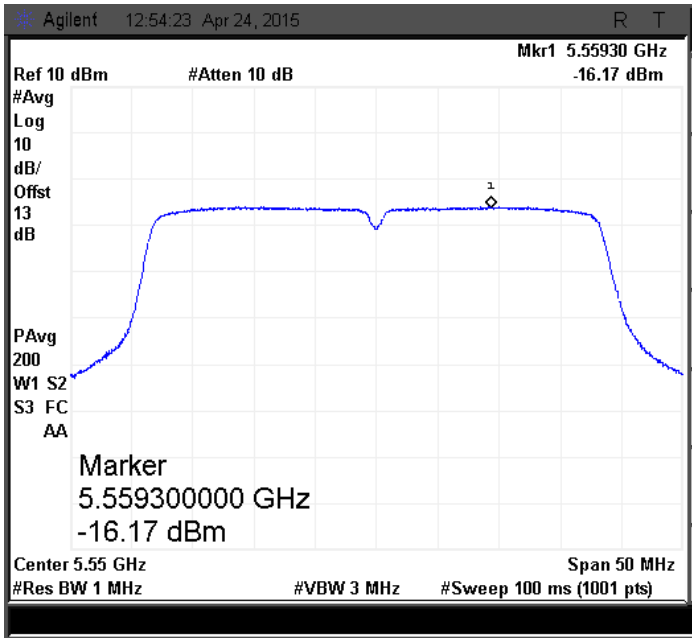

Figure 123: Power Spectral density measured at Ch. 1

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5.3.4.7.3 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

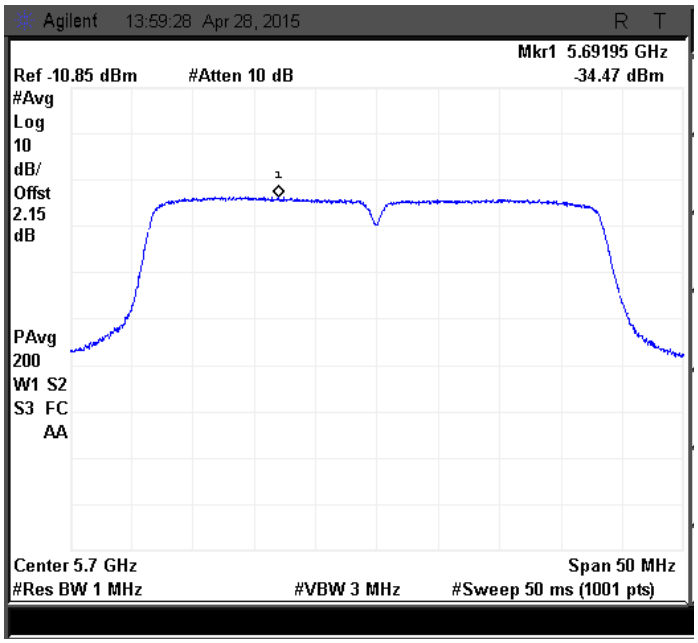

Figure 124: Power Spectral density measured at Ch. 0

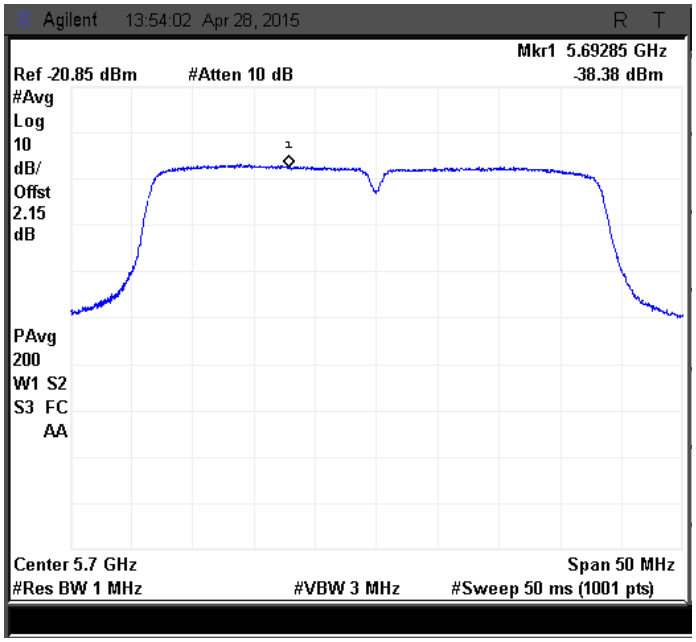

Figure 125: Power Spectral density measured at Ch. 1

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5.3.4.7.4 10MHz Modulation BW-Low channel_5485 MHz

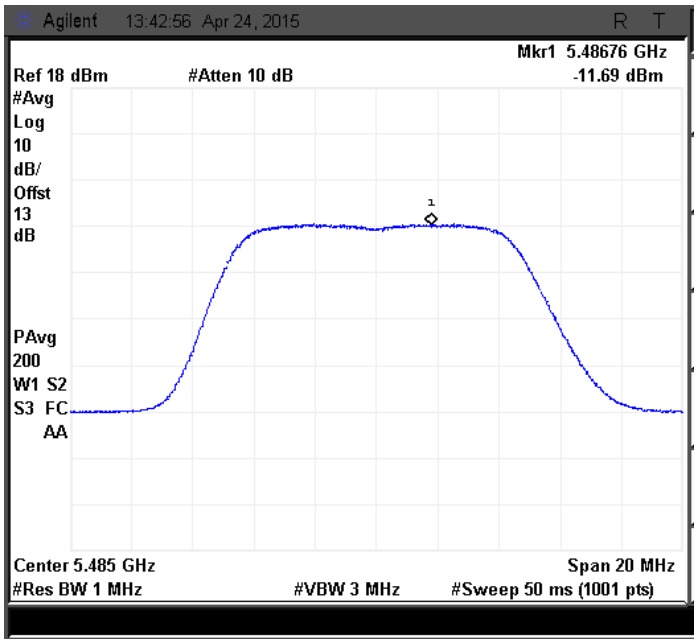

Figure 126: Power Spectral density measured at Ch. 0

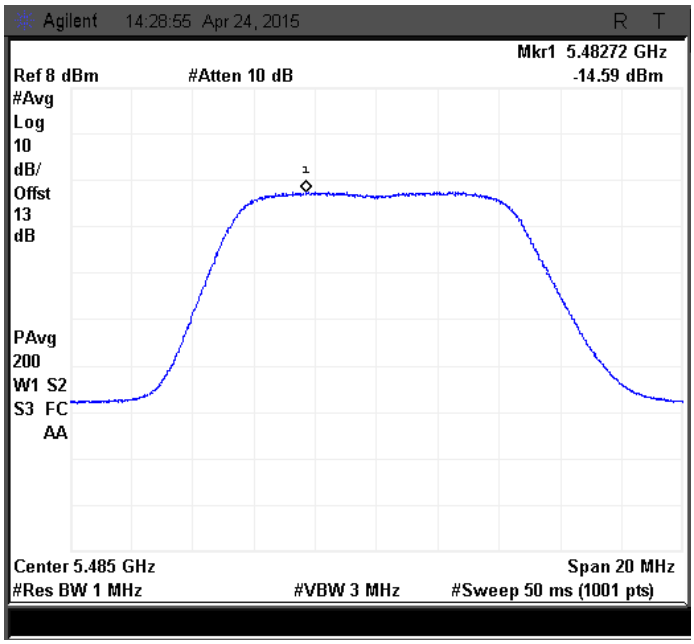

Figure 127: Power Spectral density measured at Ch. 1

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5.3.4.7.5 10MHz Modulation BW-Mid channel_5550 MHz

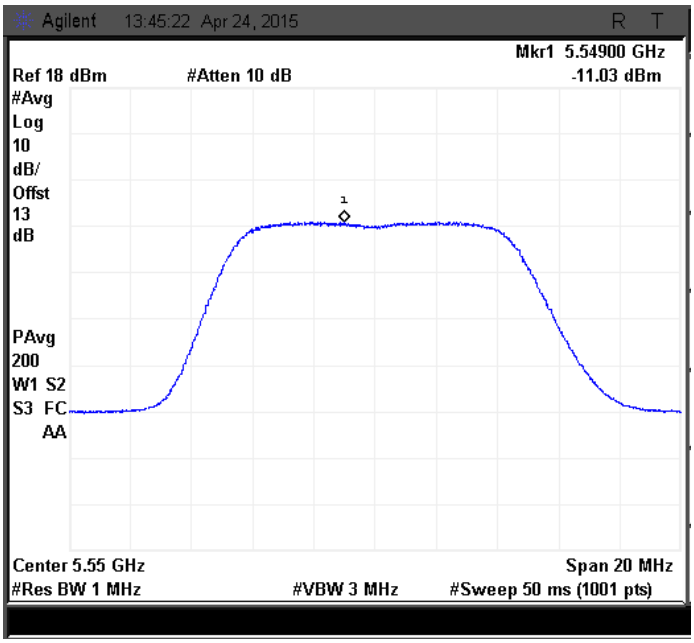

Figure 128: Power Spectral density measured at Ch. 0

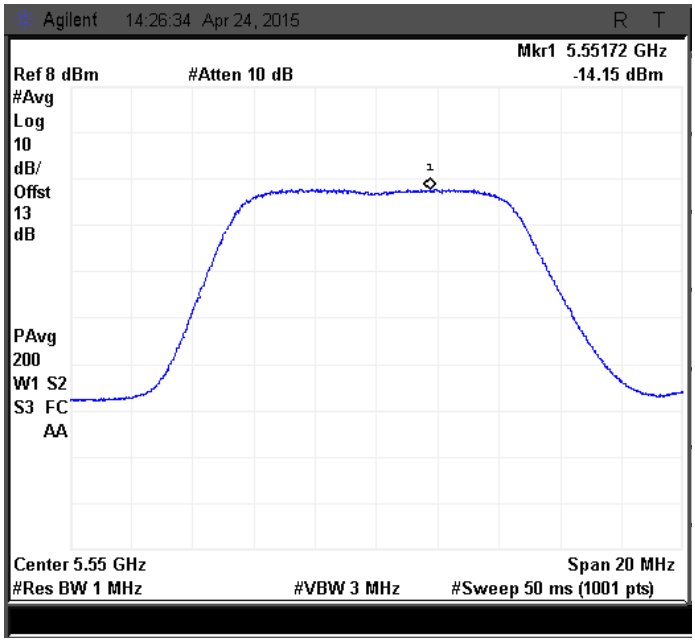

Figure 129: Power Spectral density measured at Ch. 1

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.4.7.6 10MHz Modulation BW-High channel_5710 MHz

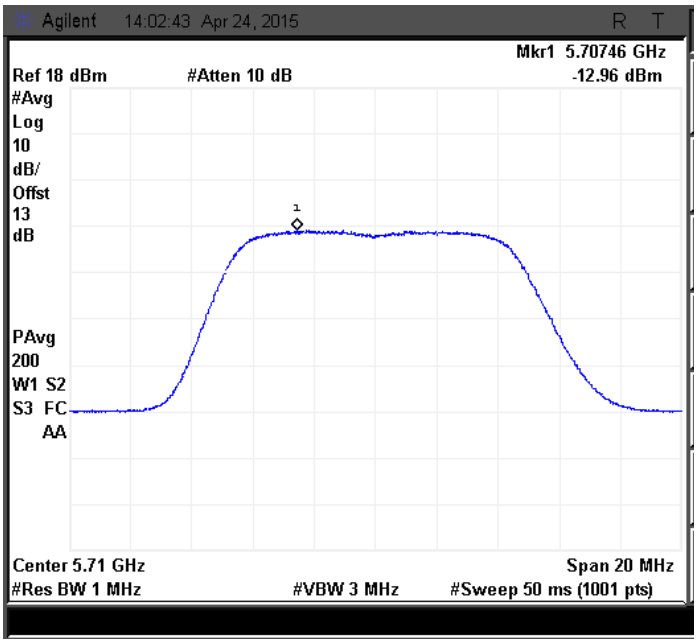

Figure 130: Power Spectral density measured at Ch. 0

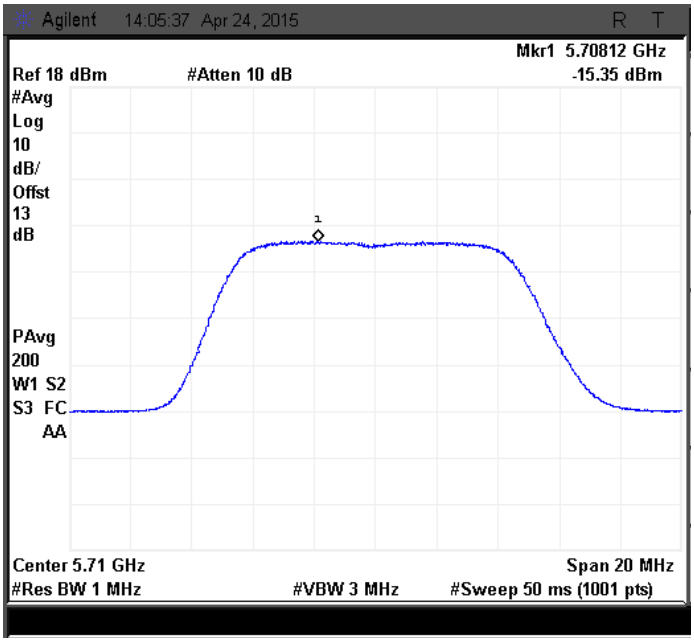

Figure 131: Power Spectral density measured at Ch. 1

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.4.8 RESULT

Peak Power Spectral Density for all channels in both 40MHz &10MHz Modulation Bandwidths is within the Specified limit. Refer below table for consolidated result.

Condition	Modulation Bandwidth (MHz)	Antenna path	Channel Frequency (MHz)	Recorded value (dBm/MHz)	Limit (dBm/MHz)	Result
Basic	40	Ch. 0	5495	-14	8	Pass
Basic	40	Ch. 0	5550	2.671	8	Pass
Basic	40	Ch. 0	5700	-15.09	8	Pass
Basic	40	Ch. 1	5495	-17.82	8	Pass
Basic	40	Ch. 1	5550	0.182	8	Pass
Basic	40	Ch. 1	5700	-17.29	8	Pass
Basic	10	Ch. 0	5485	5.005	8	Pass
Basic	10	Ch. 0	5550	5.121	8	Pass
Basic	10	Ch. 0	5710	3.859	8	Pass
Basic	10	Ch. 1	5485	1.673	8	Pass
Basic	10	Ch. 1	5550	2.638	8	Pass
Basic	10	Ch. 1	5710	1.816	8	Pass
17dBi	40	Ch. 0	5495	-26.08	-3	Pass
17dBi	40	Ch. 0	5550	-7.651	-3	Pass
17dBi	40	Ch. 0	5700	-25.8	-3	Pass
17dBi	40	Ch. 1	5495	-30.1	-3	Pass
17dBi	40	Ch. 1	5550	-9.983	-3	Pass
17dBi	40	Ch. 1	5700	-29.21	-3	Pass
17dBi	10	Ch. 0	5485	-4.784	-3	Pass
17dBi	10	Ch. 0	5550	-4.691	-3	Pass
17dBi	10	Ch. 0	5710	-6.753	-3	Pass
17dBi	10	Ch. 1	5485	-7.975	-3	Pass
17dBi	10	Ch. 1	5550	-7.478	-3	Pass
17dBi	10	Ch. 1	5710	-9.214	-3	Pass
24dBi	40	Ch. 0	5495	-35.22	-10	Pass
24dBi	40	Ch. 0	5550	-14.9	-10	Pass
24dBi	40	Ch. 0	5700	-34.47	-10	Pass
24dBi	40	Ch. 1	5495	-37.86	-10	Pass
24dBi	40	Ch. 1	5550	-16.17	-10	Pass
24dBi	40	Ch. 1	5700	-38.38	-10	Pass
24dBi	10	Ch. 0	5485	-11.69	-10	Pass
24dBi	10	Ch. 0	5550	-11.03	-10	Pass
24dBi	10	Ch. 0	5710	-12.96	-10	Pass
24dBi	10	Ch. 1	5485	-14.59	-10	Pass
24dBi	10	Ch. 1	5550	-14.15	-10	Pass
24dBi	10	Ch. 1	5710	-15.35	-10	Pass

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.5 PEAK EXCURSION RATIO

5.3.5.1 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	5470 MHz to 5725 MHz
Resolution Bandwidth	1MHz
Video Bandwidth	3MHz
Sweep Time	50msec
Attenuation	Auto
Test Mode	Conducted
Detector	Peak
Input Voltage	120V AC
Input Frequency	60 Hz
Temperature	22.0°C
Humidity	56.0%
Tested By	Harsha K
Test Date	12th Mar 2015 to 28th Apr 2015

5.3.5.2 LIMITS

The Ratio of the peak excursion of the modulation envelope (measured using a peak hold function) to the maximum conducted output power shall not exceed 13dB across any 1MHz bandwidth or the emission bandwidth whichever is less.

5.3.5.3 TEST SETUP

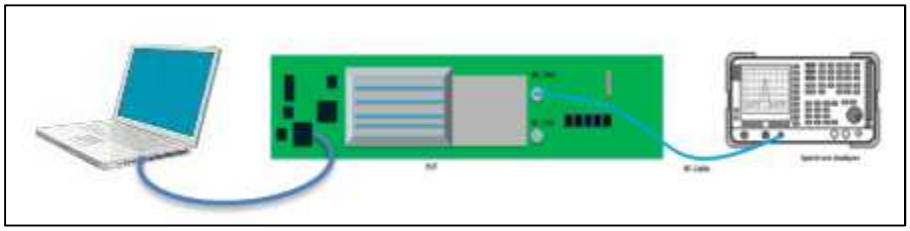

Figure 132: Typical test setup for Conducted Test setup

5.3.5.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per Section G of**"789033 D01 General UNII Test Procedures Old Rules v01r04".** 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.

5.3.5.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.5.5.1 40MHz MODULATION BW-LOW CHANNEL_5495 MHz

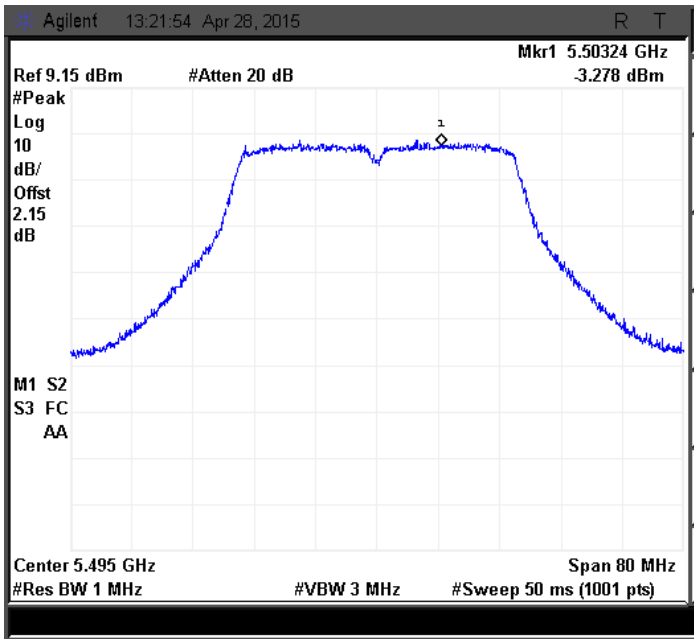

Figure 133: Peak Excursion Ratio plot measured at Ch. 0

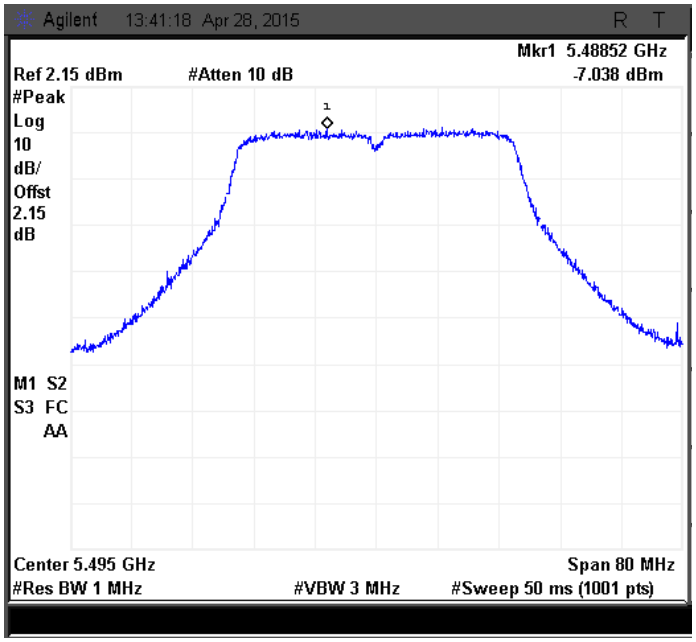

Figure 134: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.5.2 40MHz MODULATION BW-MID CHANNEL_5550 MHz

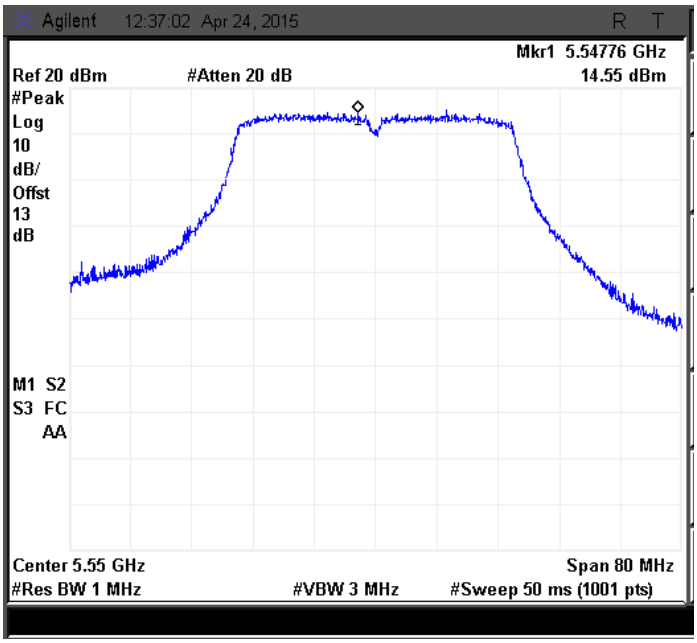

Figure 135: Peak Excursion Ratio plot measured at Ch. 0

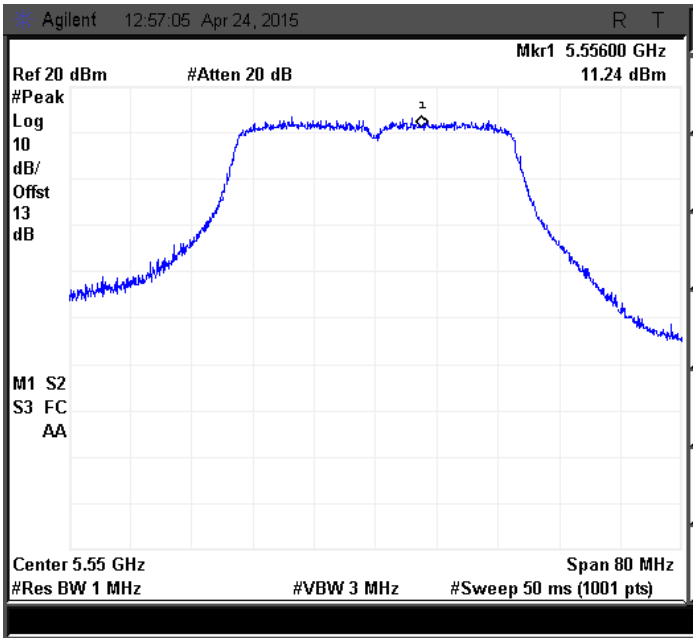

Figure 136: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.5.3 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

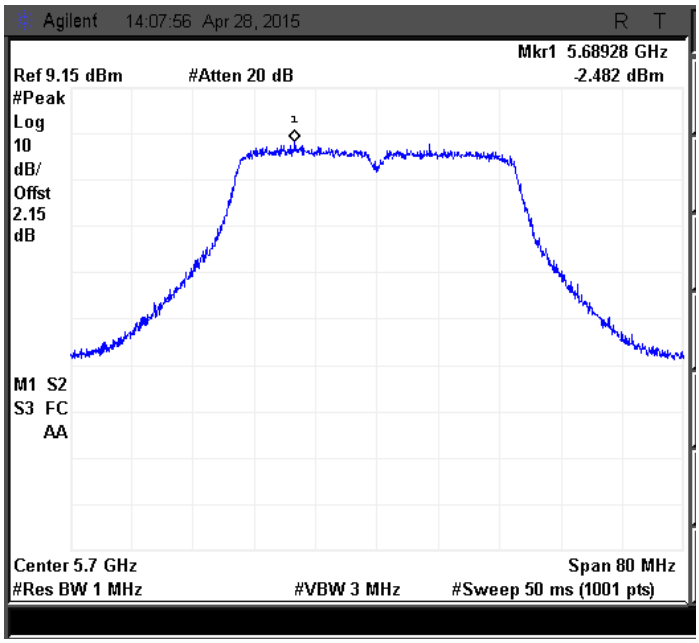

Figure 137: Peak Excursion Ratio plot measured at Ch. 0

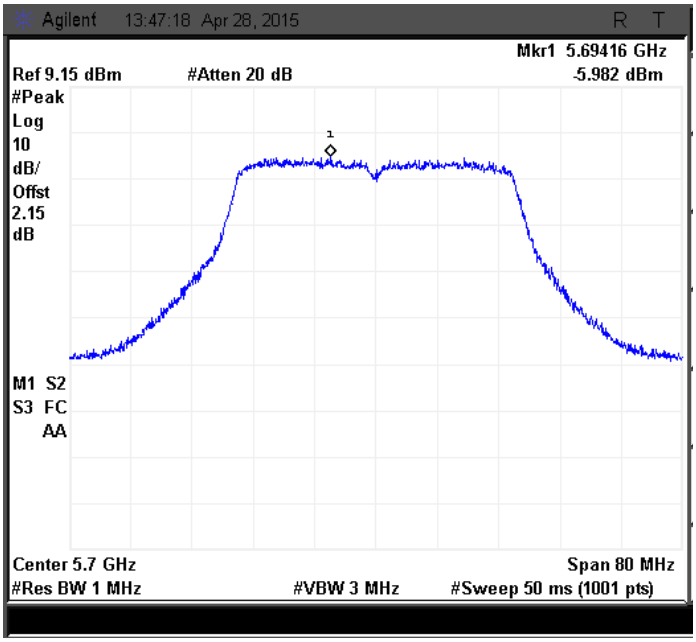

Figure 138: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.5.4 10MHz Modulation BW-Low channel_5485 MHz

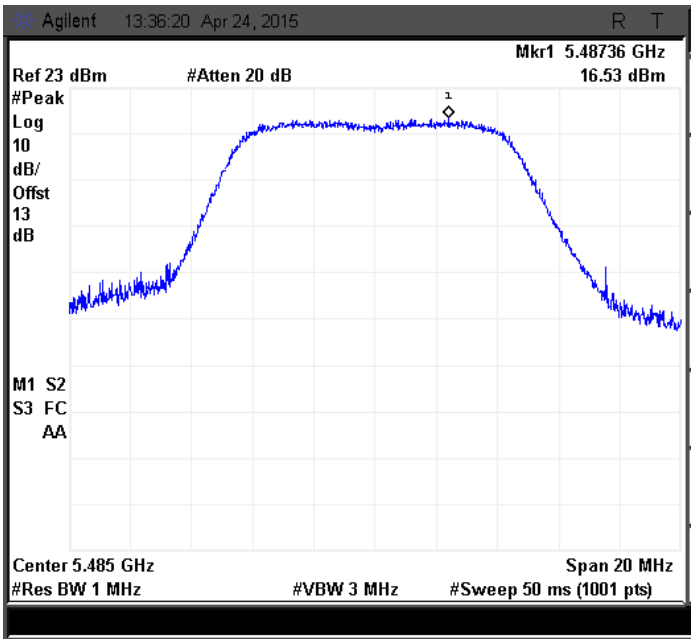

Figure 139: Peak Excursion Ratio plot measured at Ch. 0

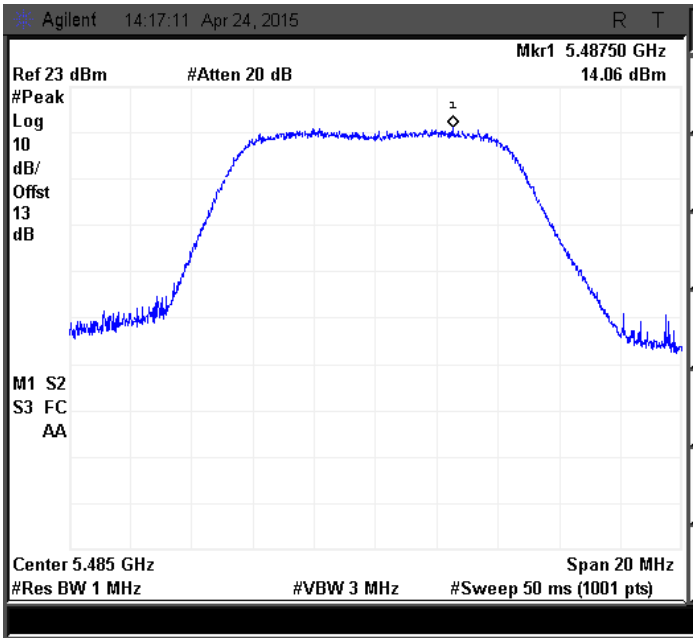

Figure 140: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.5.5 10MHz Modulation BW-Mid channel_5550 MHz

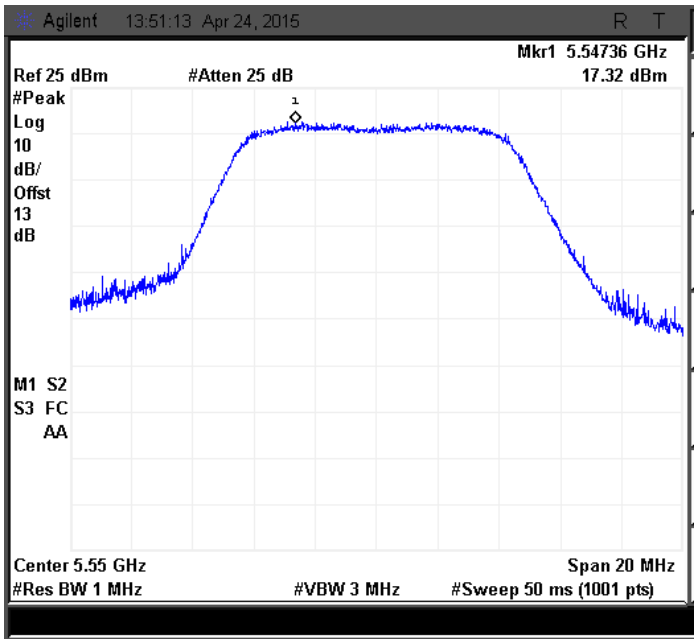

Figure 141: Peak Excursion Ratio plot measured at Ch. 0

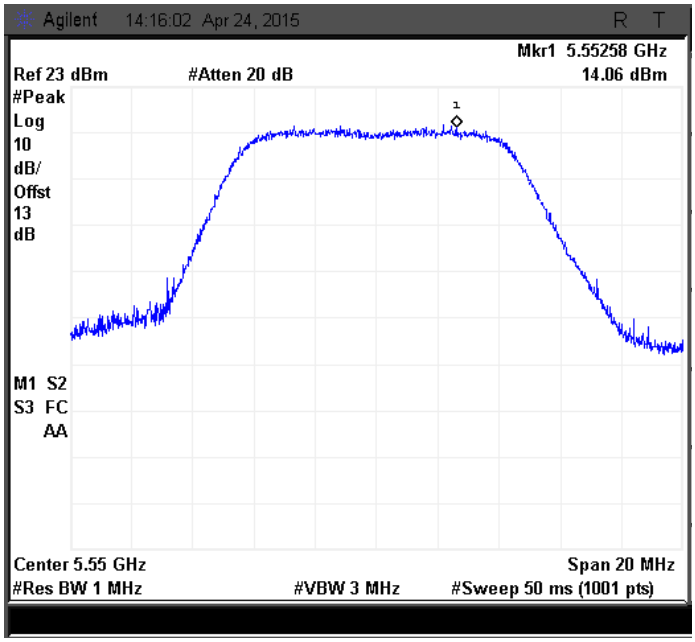

Figure 142: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.5.6 10MHz MODULATION BW-HIGH CHANNEL_5710 MHz

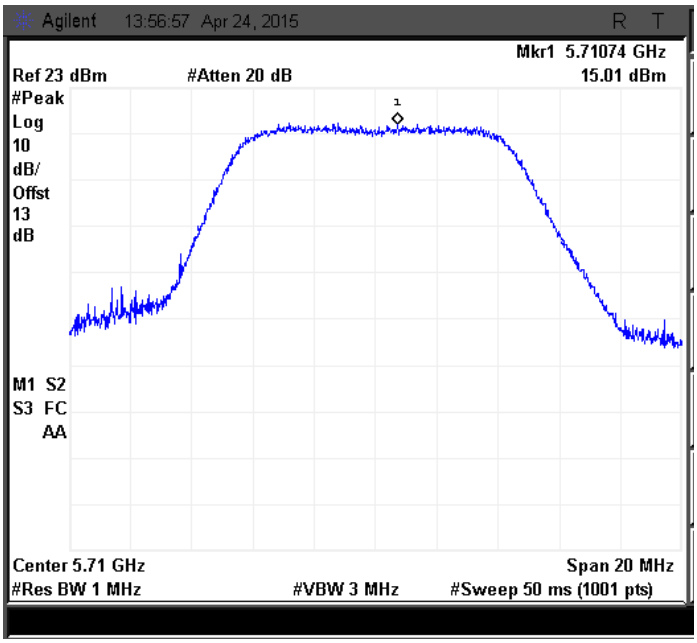

Figure 143: Peak Excursion Ratio plot measured at Ch. 0

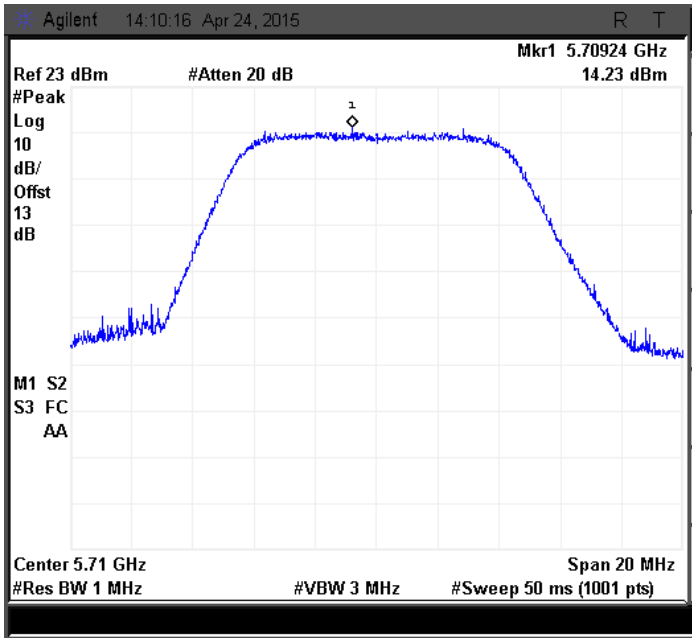

Figure 144: Peak Excursion Ratio plot measured at Ch. 1

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

5.3.5.6.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

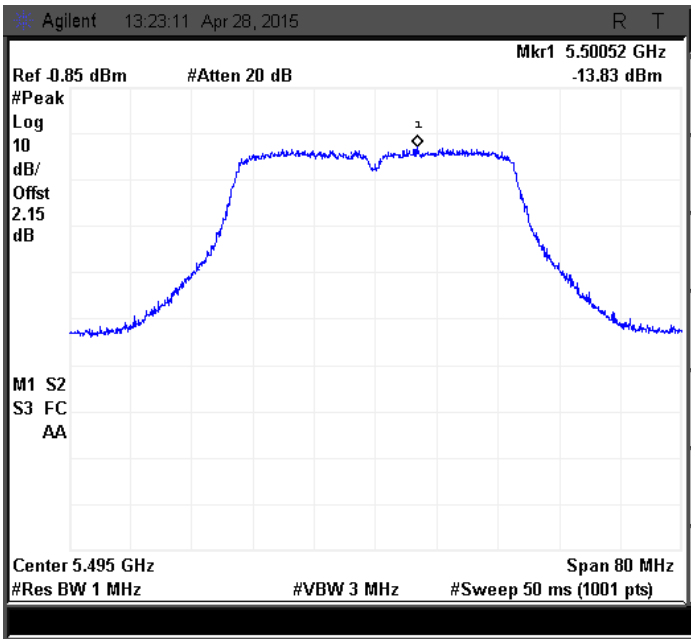

Figure 145: Peak Excursion Ratio plot measured at Ch. 0

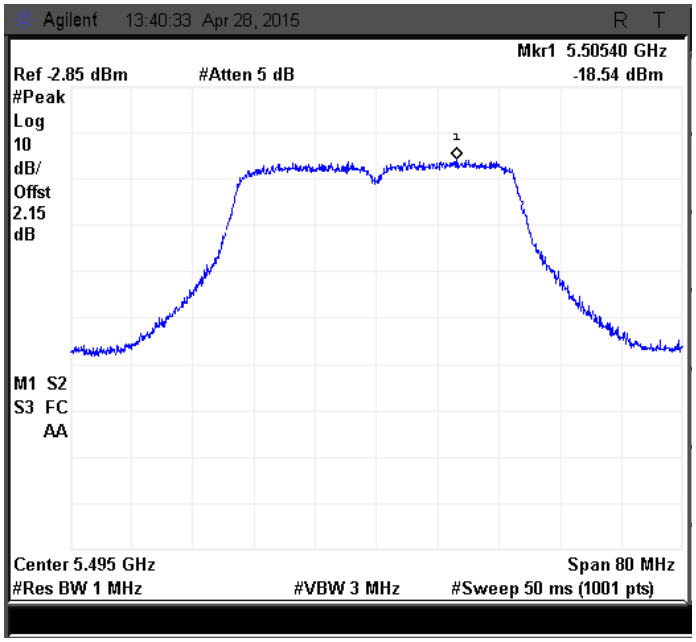

Figure 146: Peak Excursion Ratio plot measured at Ch. 1

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5.3.5.6.2 40MHz MODULATION BW-MID CHANNEL_5550 MHz

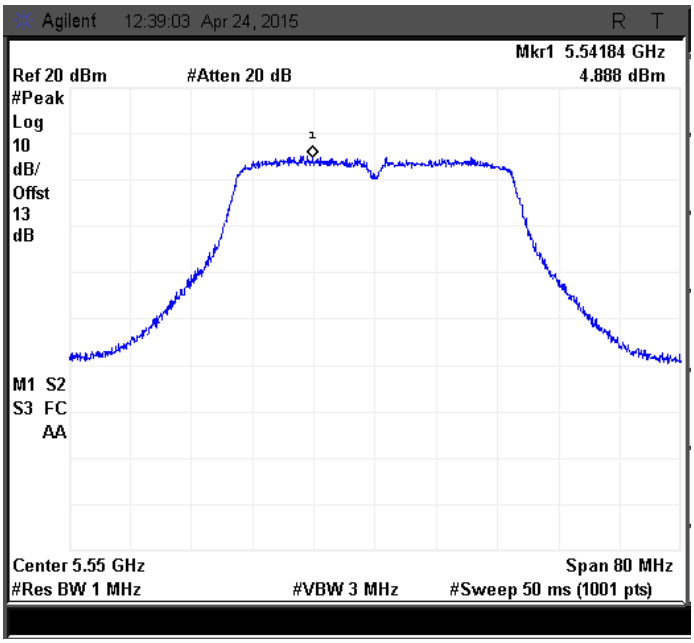

Figure 147: Peak Excursion Ratio plot measured at Ch. 0

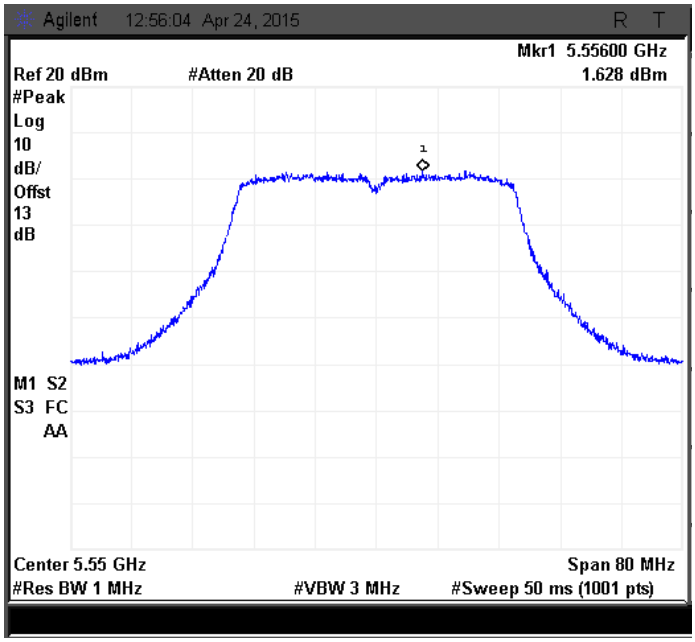

Figure 148: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.6.3 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

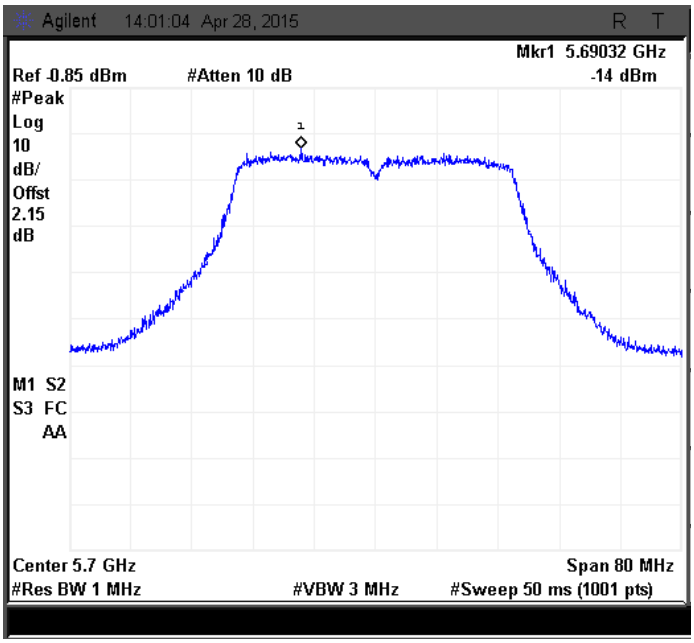

Figure 149: Peak Excursion Ratio plot measured at Ch. 0

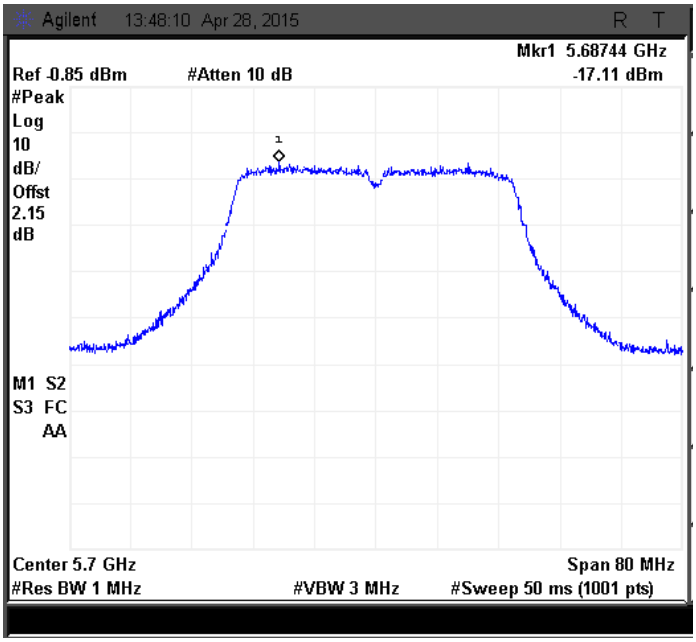

Figure 150: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.6.4 10MHz Modulation BW-Low channel_5485 MHz

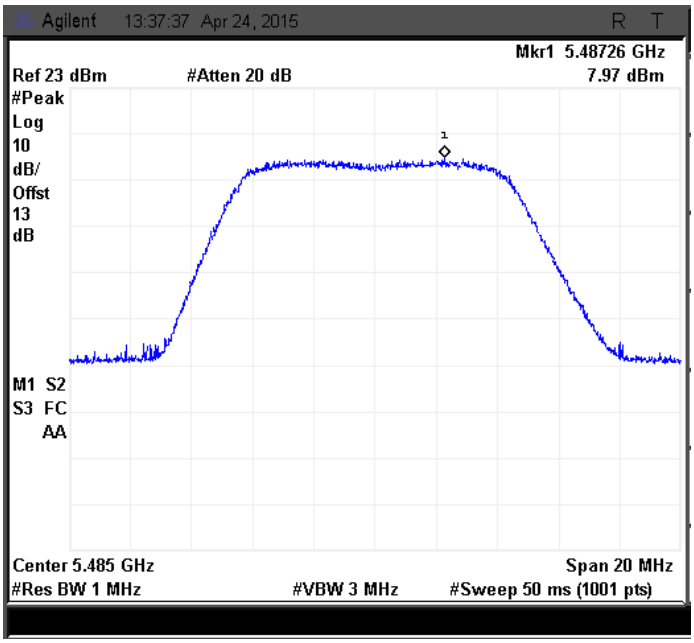

Figure 151: Peak Excursion Ratio plot measured at Ch. 0

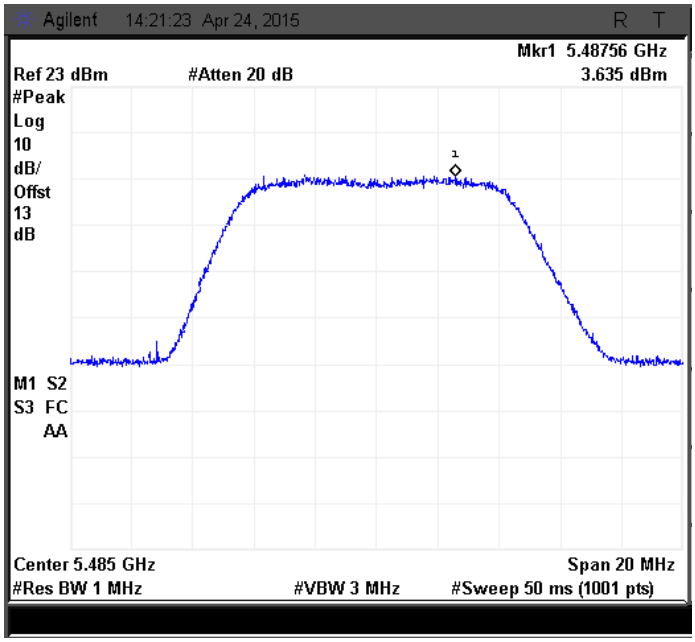

Figure 152: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.6.5 10MHz MODULATION BW-MID CHANNEL_5550 MHz

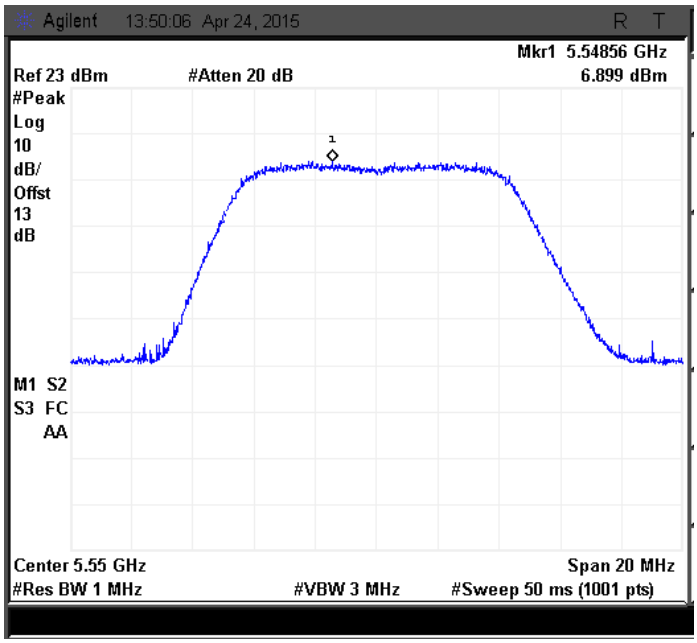

Figure 153: Peak Excursion Ratio plot measured at Ch. 0

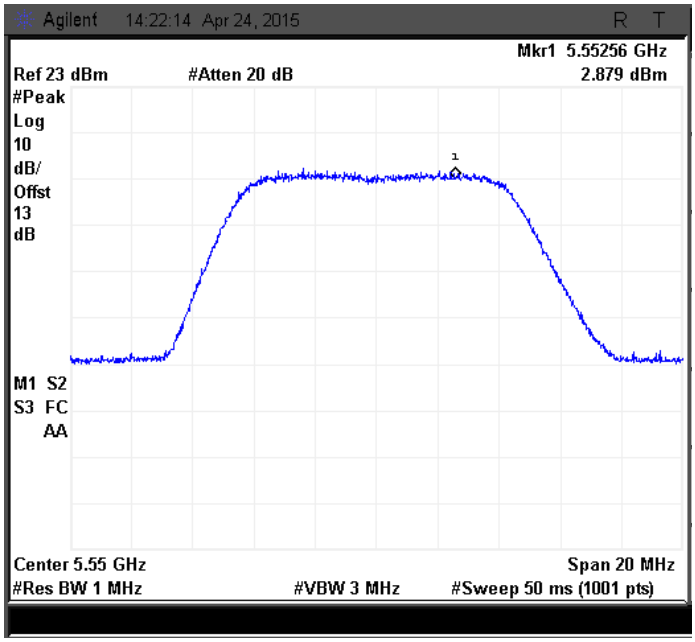

Figure 154: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.6.6 10MHz Modulation BW-High channel_5710MHz

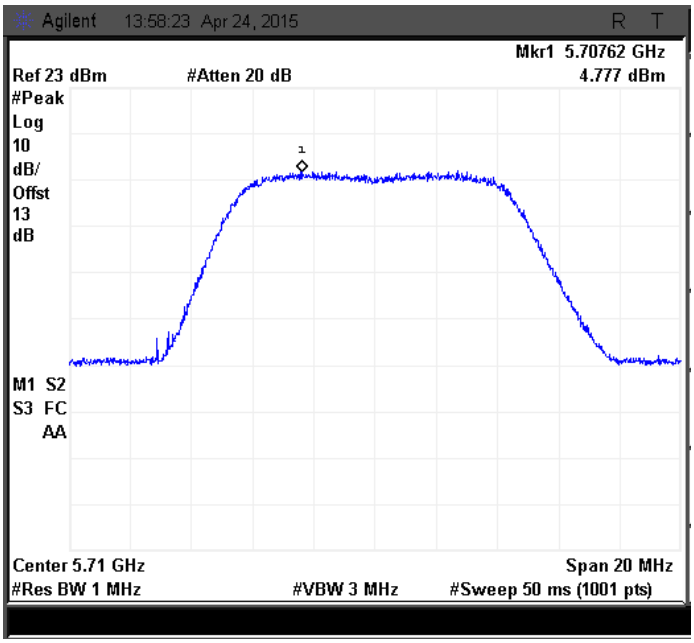

Figure 155: Peak Excursion Ratio plot measured at Ch. 0

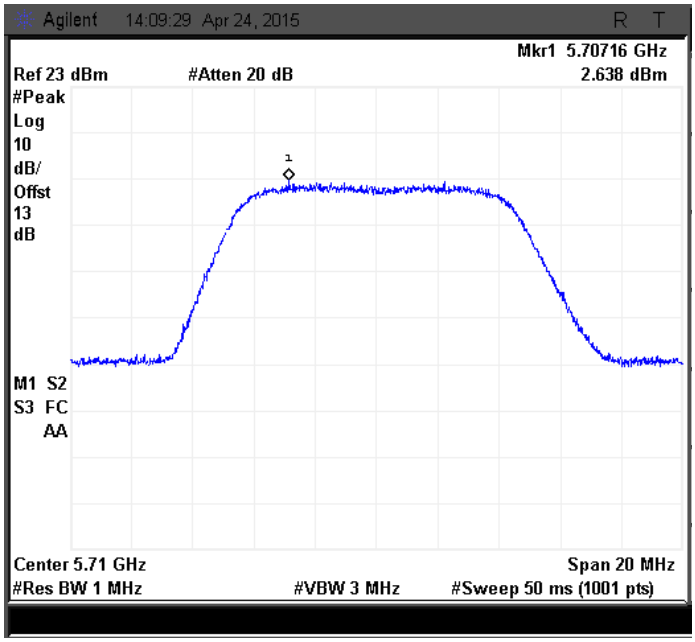

Figure 156: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.7 RESULT (SUPPORTING GRAPHS / DATA) FOR 24DBI DIDH CONDITION

5.3.5.7.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

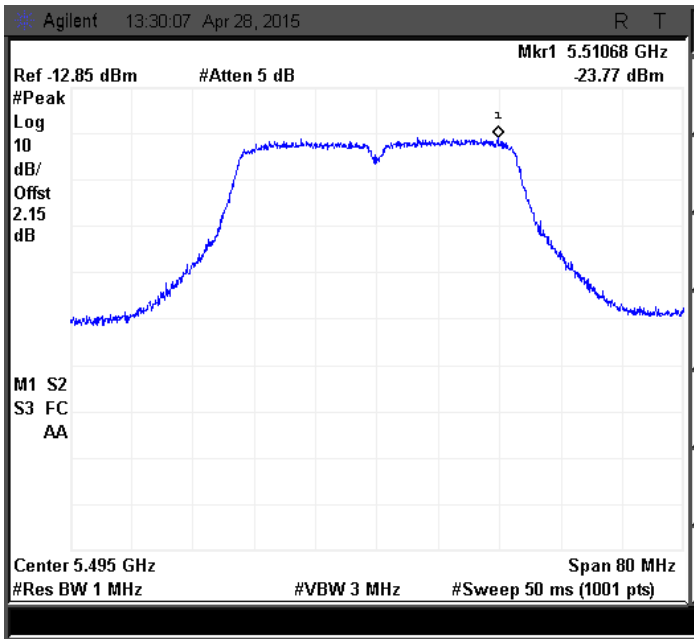

Figure 157: Peak Excursion Ratio plot measured at Ch. 0

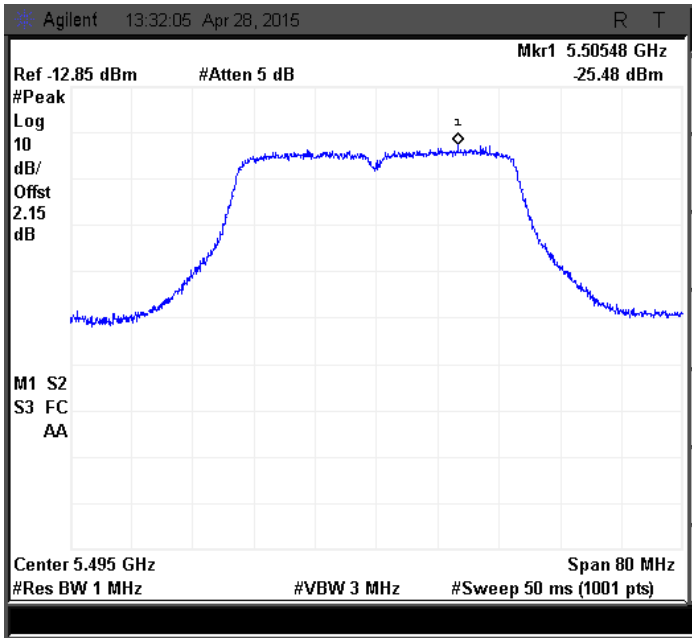

Figure 158: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.7.2 40MHz MODULATION BW-MID CHANNEL_5550 MHz

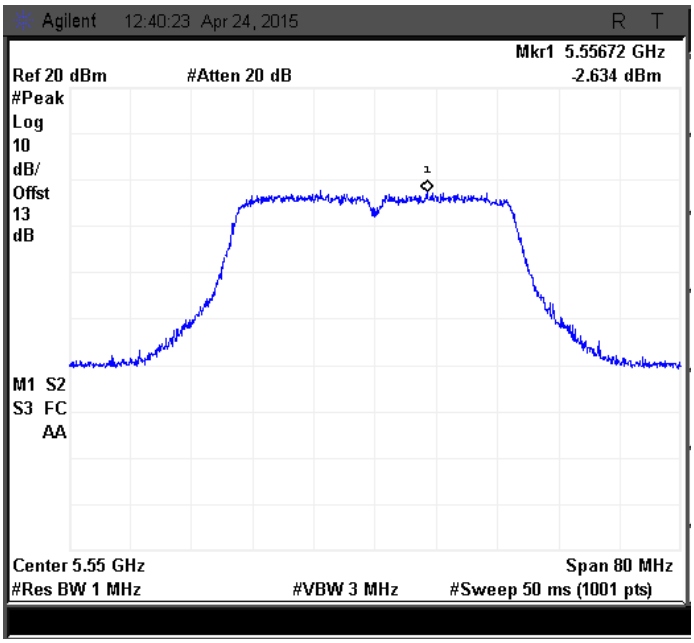

Figure 159: Peak Excursion Ratio plot measured at Ch. 0

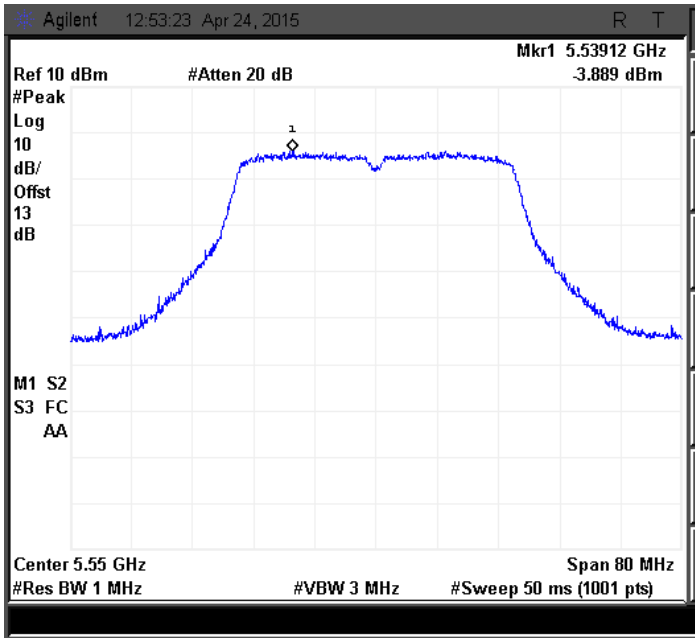

Figure 160: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.7.3 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

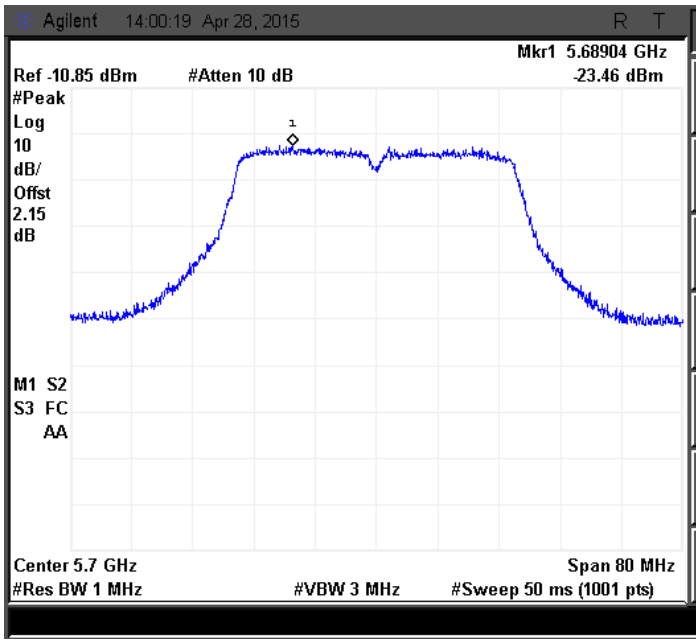

Figure 161: Peak Excursion Ratio plot measured at Ch. 0

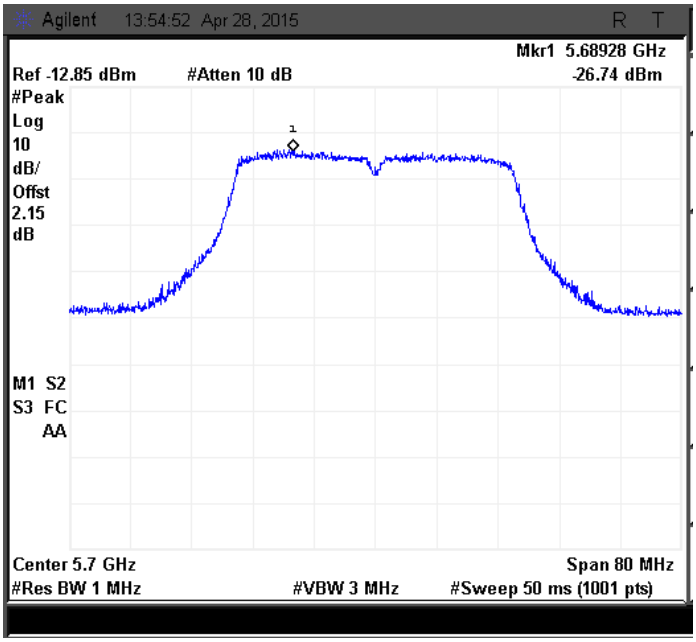

Figure 162: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.7.4 10MHz Modulation BW-Low channel_5485 MHz

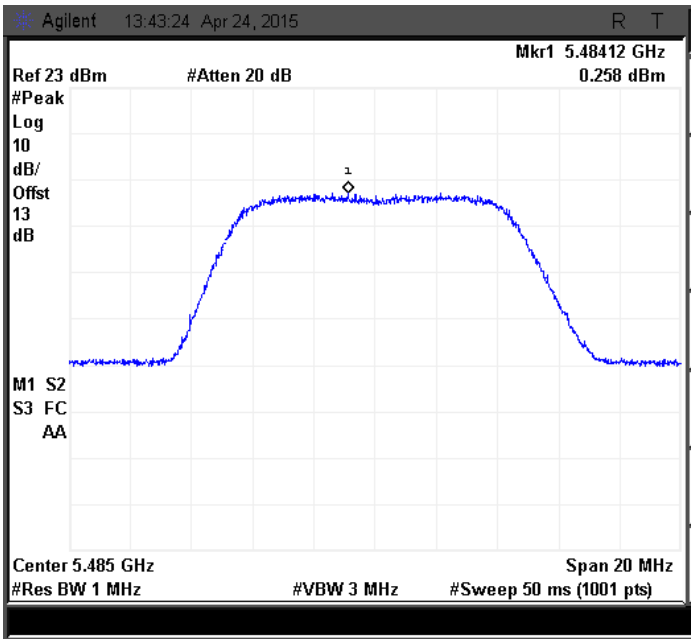

Figure 163: Peak Excursion Ratio plot measured at Ch. 0

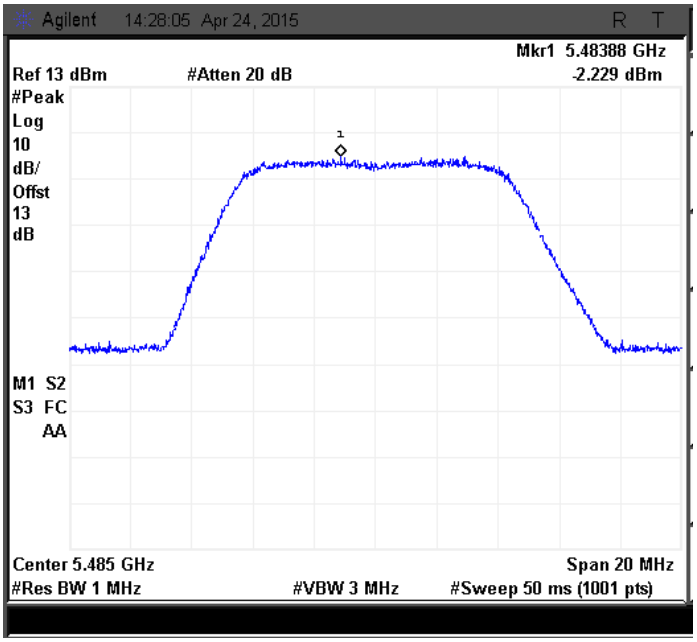

Figure 164: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.7.5 10MHz Modulation BW-Mid channel_5550 MHz

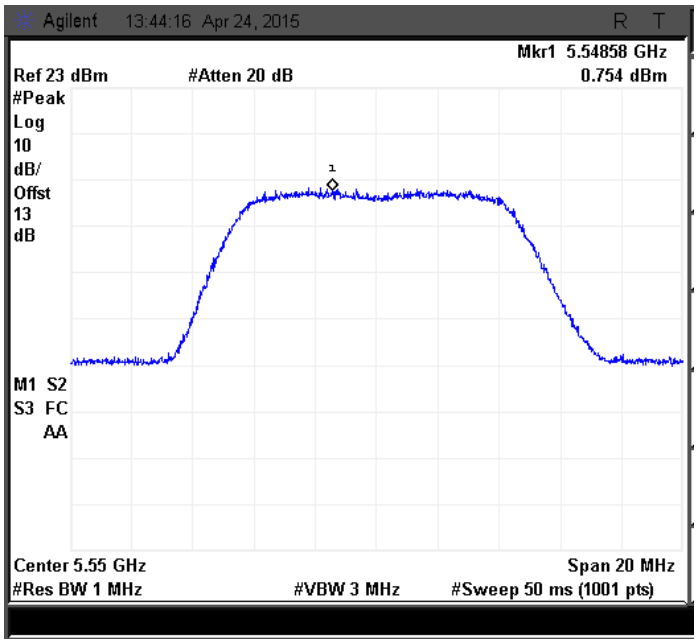

Figure 165: Peak Excursion Ratio plot measured at Ch. 0

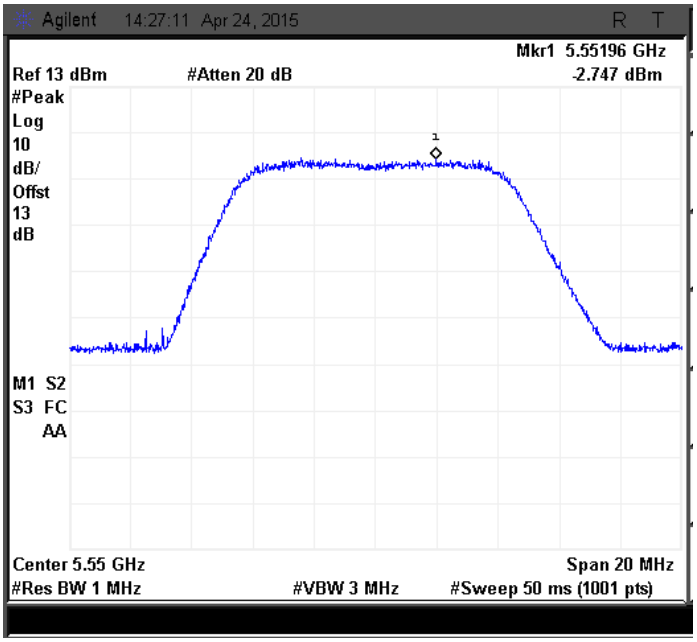

Figure 166: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.7.6 10MHz MODULATION BW-HIGH CHANNEL_5710 MHz

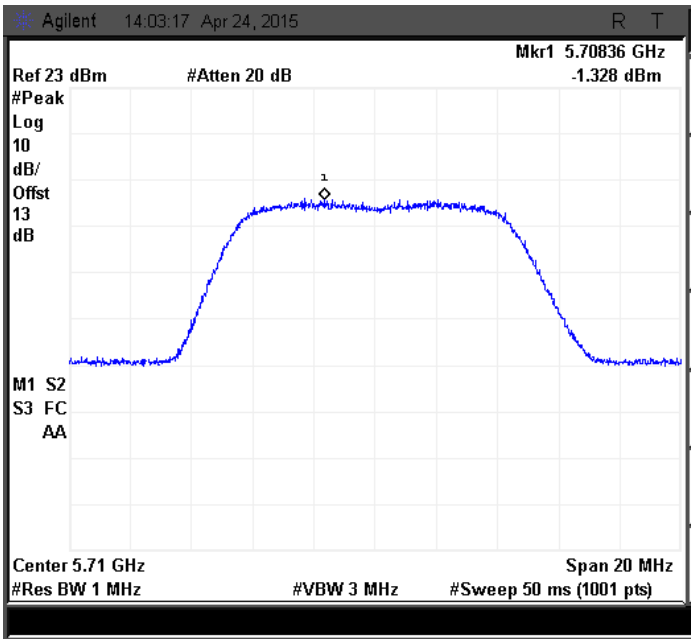

Figure 167: Peak Excursion Ratio plot measured at Ch. 0

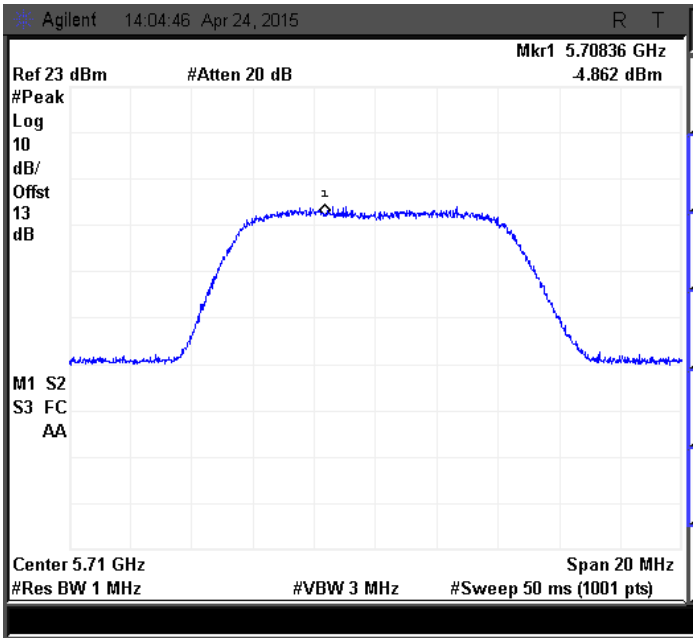

Figure 168: Peak Excursion Ratio plot measured at Ch. 1

5.3.5.8 RESULT

Peak Power Spectral Density for all channels in both 40MHz & 10MHz Modulation Bandwidths is within the Specified limit. Refer below table for consolidated result.

Condition	Mod. BW (MHz)	Ant. path	Channel Freq. (MHz)	PPSD value (dBm/MHz)	Recorded value (dBm)	Peak Excursion (dB)	Limit (dB)	Result
Basic	40	Ch. 0	5495	-14	-3.278	10.722	<13	Pass
Basic	40	Ch. 0	5550	2.671	15.55	12.879	<13	Pass
Basic	40	Ch. 0	5700	-15.09	-2.482	12.608	<13	Pass
Basic	40	Ch. 1	5495	-17.82	-7.038	10.782	<13	Pass
Basic	40	Ch. 1	5550	0.182	11.24	11.058	<13	Pass
Basic	40	Ch. 1	5700	-17.29	-5.982	11.308	<13	Pass
Basic	10	Ch. 0	5485	5.005	16.53	11.525	<13	Pass
Basic	10	Ch. 0	5550	5.121	17.32	12.199	<13	Pass
Basic	10	Ch. 0	5710	3.859	15.01	11.151	<13	Pass
Basic	10	Ch. 1	5485	1.673	14.06	12.387	<13	Pass
Basic	10	Ch. 1	5550	2.638	14.06	11.422	<13	Pass
Basic	10	Ch. 1	5710	1.816	14.23	12.414	<13	Pass
17dBi	40	Ch. 0	5495	-26.08	-13.83	12.25	<13	Pass
17dBi	40	Ch. 0	5550	-7.651	4.88	12.531	<13	Pass
17dBi	40	Ch. 0	5700	-25.8	-14	11.8	<13	Pass
17dBi	40	Ch. 1	5495	-30.1	-18.54	11.56	<13	Pass
17dBi	40	Ch. 1	5550	-9.983	1.628	11.611	<13	Pass
17dBi	40	Ch. 1	5700	-29.21	-17.11	12.1	<13	Pass
17dBi	10	Ch. 0	5485	-4.784	7.97	12.754	<13	Pass
17dBi	10	Ch. 0	5550	-4.691	6.899	11.59	<13	Pass
17dBi	10	Ch. 0	5710	-6.753	4.77	11.523	<13	Pass
17dBi	10	Ch. 1	5485	-7.975	3.635	11.61	<13	Pass
17dBi	10	Ch. 1	5550	-7.478	2.879	10.357	<13	Pass
17dBi	10	Ch. 1	5710	-9.214	2.638	11.852	<13	Pass
24dBi	40	Ch. 0	5495	-35.22	-23.77	11.45	<13	Pass
24dBi	40	Ch. 0	5550	-14.9	-2.634	12.266	<13	Pass
24dBi	40	Ch. 0	5700	-34.47	-23.46	11.01	<13	Pass
24dBi	40	Ch. 1	5495	-37.86	-25.48	12.38	<13	Pass
24dBi	40	Ch. 1	5550	-16.17	-3.889	12.281	<13	Pass
24dBi	40	Ch. 1	5700	-38.38	-26.74	11.64	<13	Pass
24dBi	10	Ch. 0	5485	-11.69	0.258	11.948	<13	Pass
24dBi	10	Ch. 0	5550	-11.03	0.754	11.784	<13	Pass
24dBi	10	Ch. 0	5710	-12.96	-1.328	11.632	<13	Pass
24dBi	10	Ch. 1	5485	-14.59	-2.229	12.361	<13	Pass
24dBi	10	Ch. 1	5550	-14.15	-2.747	11.403	<13	Pass
24dBi	10	Ch. 1	5710	-15.35	-4.862	10.488	<13	Pass

Note:

Peak Excursion Ratio value = Recorded value (dBm) – PPSD value (dBm/MHz)

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5.3.6 UNWANTED EMISSIONS LEVELS-CONDUCTED BAND EDGE

5.3.6.1 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	5470 MHz to 5725 MHz
Resolution Bandwidth	1MHz
Video Bandwidth	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	Harsha K
Test Date	12th Mar 2015 to 28th Apr 2015

5.3.6.2 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

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

5.3.6.3 TEST SETUP

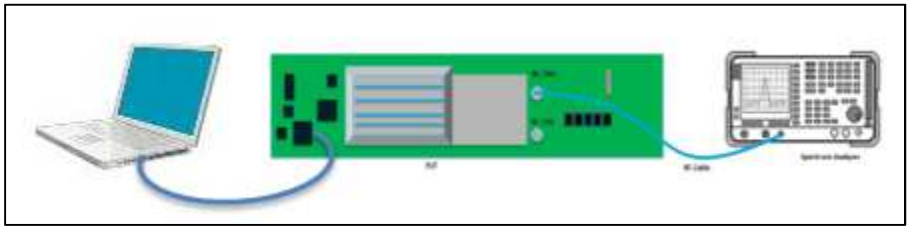

Figure 169: Typical test setup for Conducted Test setup

5.3.6.4 TEST PROCEDURE

The Conducted test was performed using the Spectrum analyzer. Measurements were done as per SectionsH(1), H(2), H(3), H(5) & H(6) of **"789033 D01 General UNII Test Procedures Old Rules v01r04".** 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.

5.3.6.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.6.5.1 40MHz MODULATION BW-LOW CHANNEL_5495 MHz

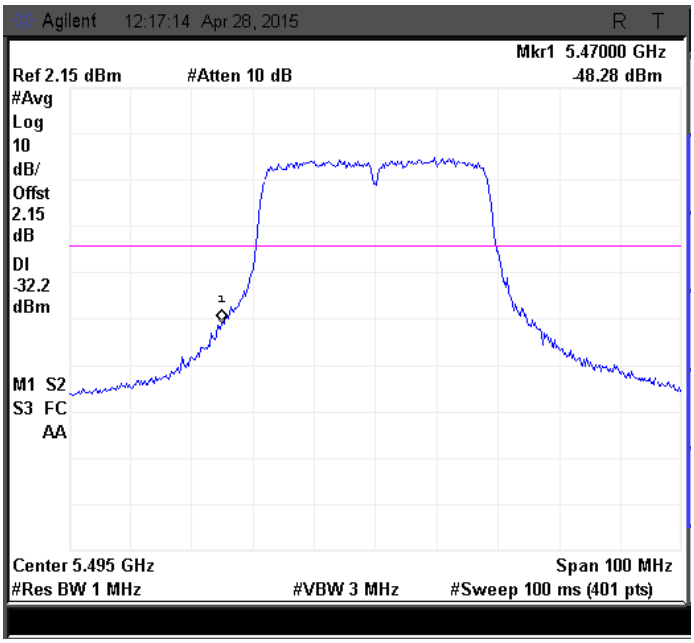

Figure 170: Band edge measured at Ch. 0-Avg

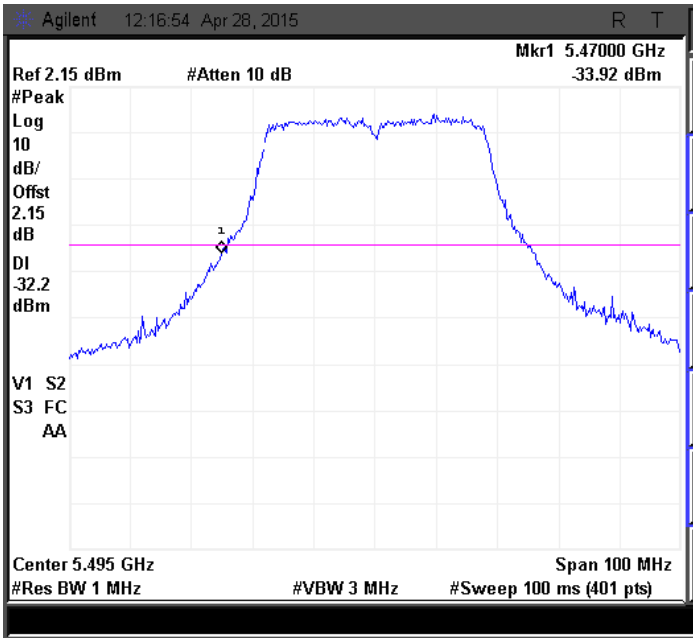

Figure 171: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

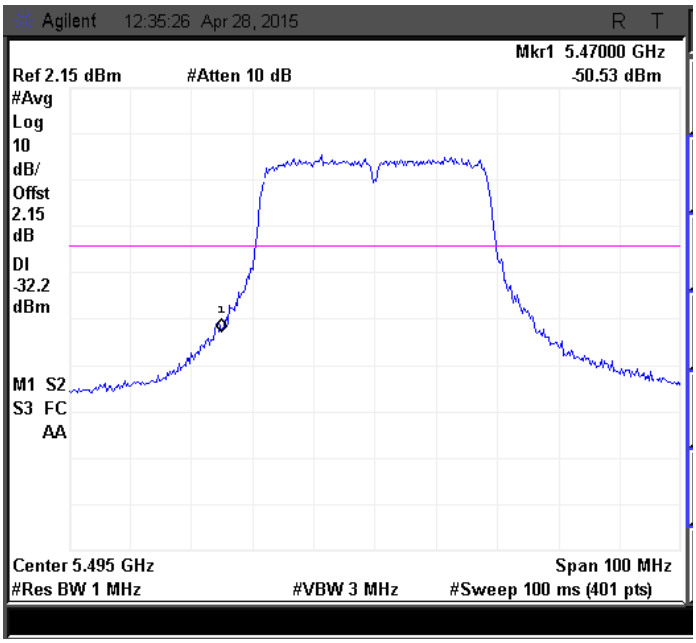

Figure 172: Band edge measured at Ch. 1-Avg

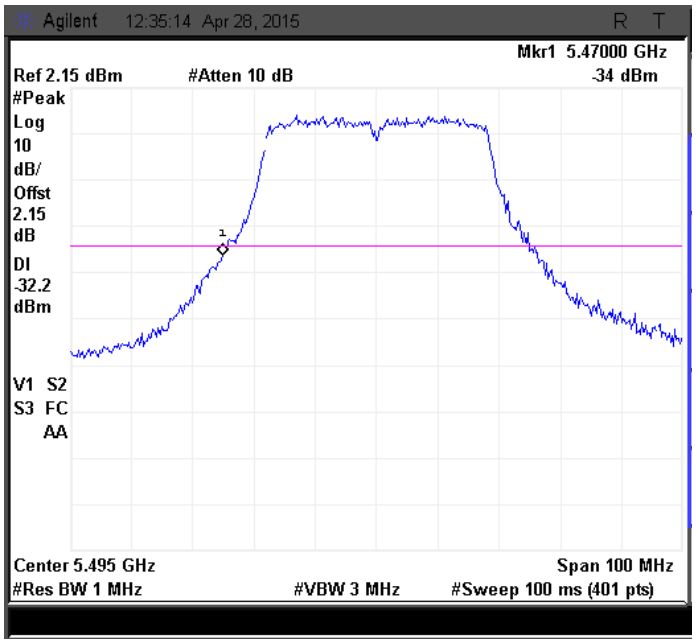

Figure 173: Band edge measured at Ch. 1-Peak

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5.3.6.5.2 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

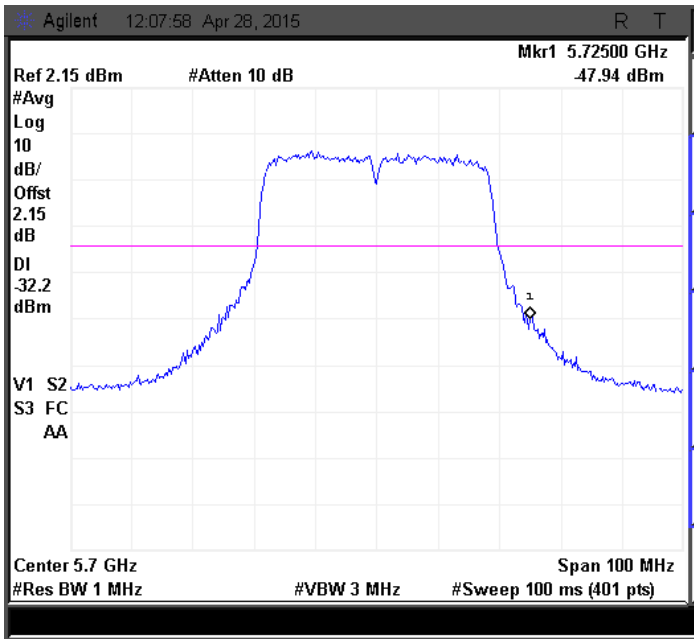

Figure 174: Band edge measured at Ch. 0-Avg

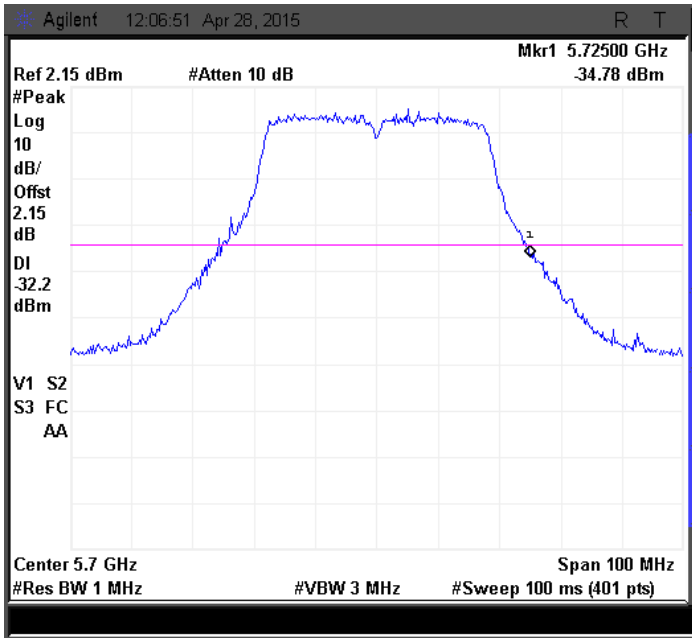

Figure 175: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

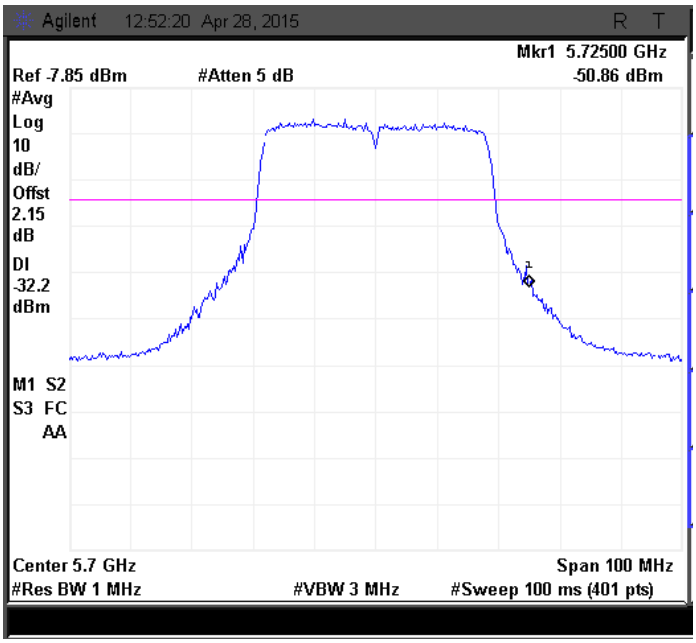

Figure 176: Band edge measured at Ch. 1-Avg

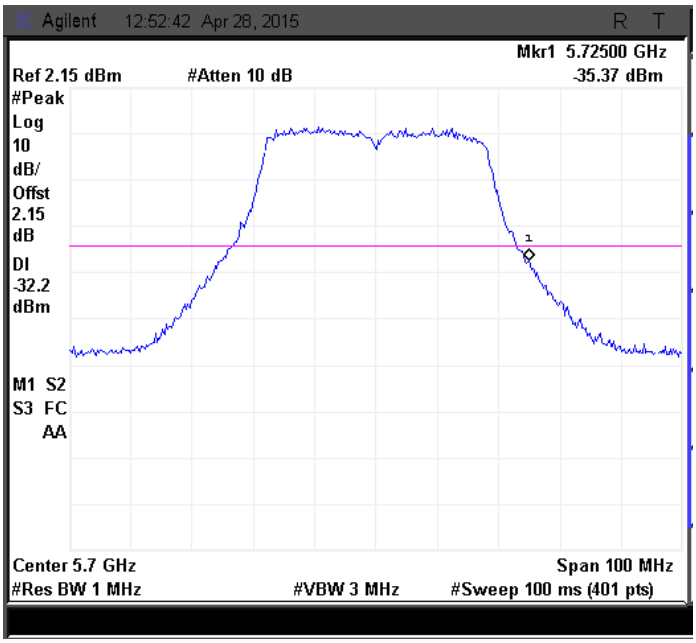

Figure 177: Band edge measured at Ch. 1-Peak

5.3.6.5.3 10MHz Modulation BW-Low channel_5485 MHz

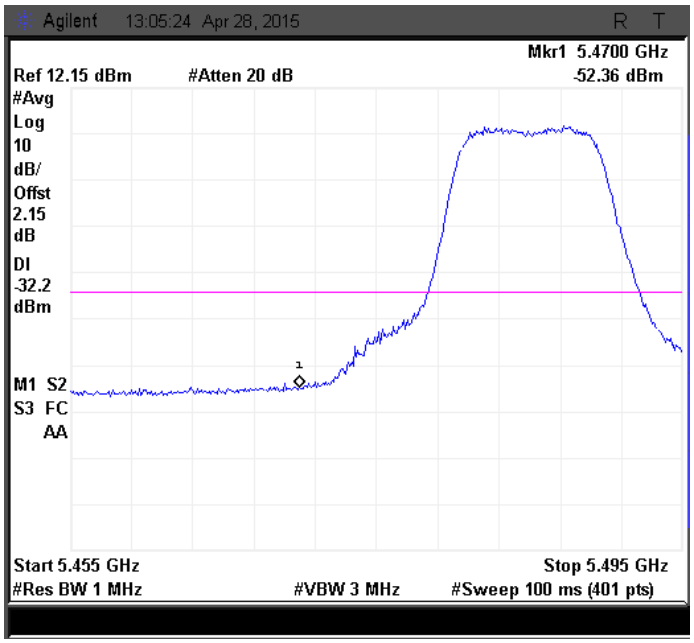

Figure 178: Band edge measured at Ch. 0-Avg

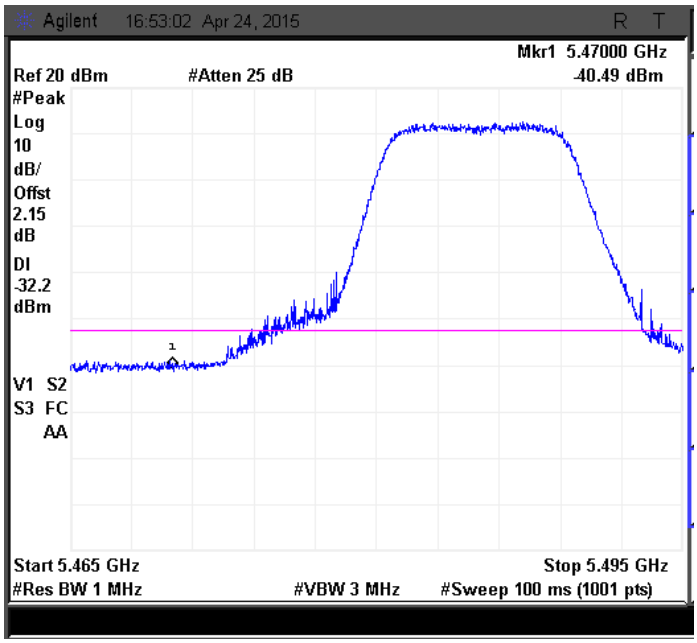

Figure 179: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

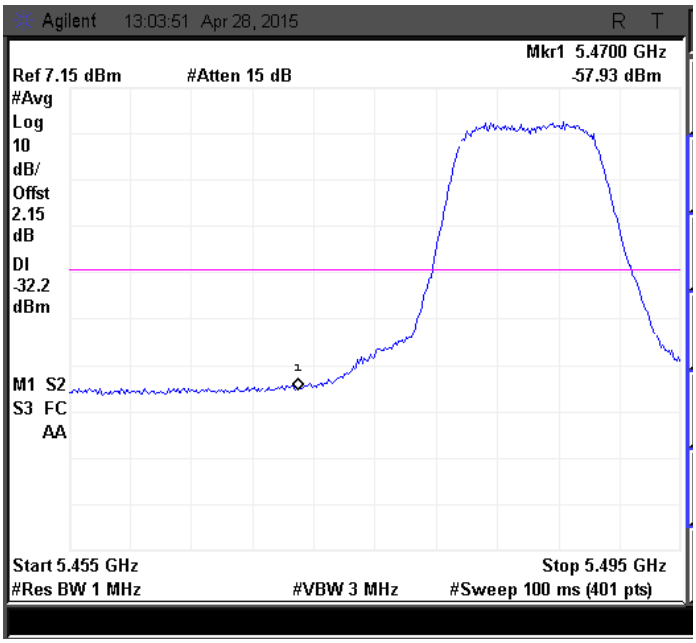

Figure 180: Band edge measured at Ch. 1-Avg

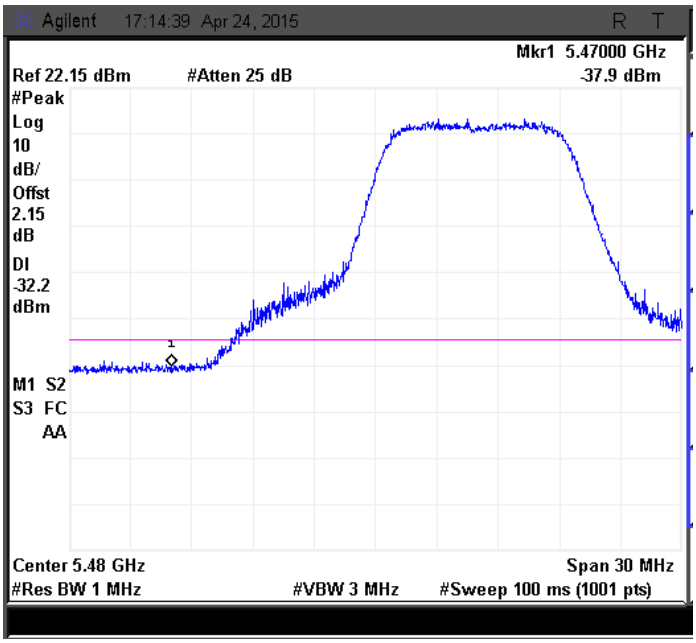

Figure 181: Band edge measured at Ch. 1-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.6.5.4 10MHz Modulation BW-High channel_5710 MHz

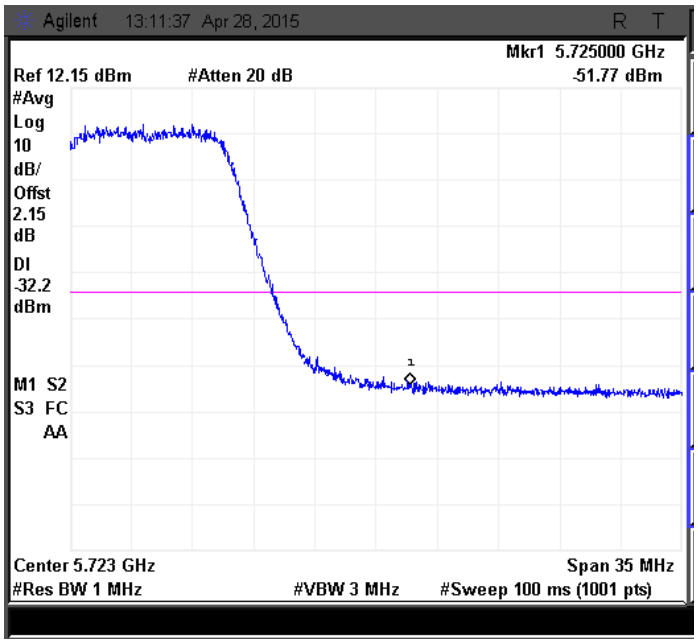

Figure 182: Band edge measured at Ch. 0-Avg

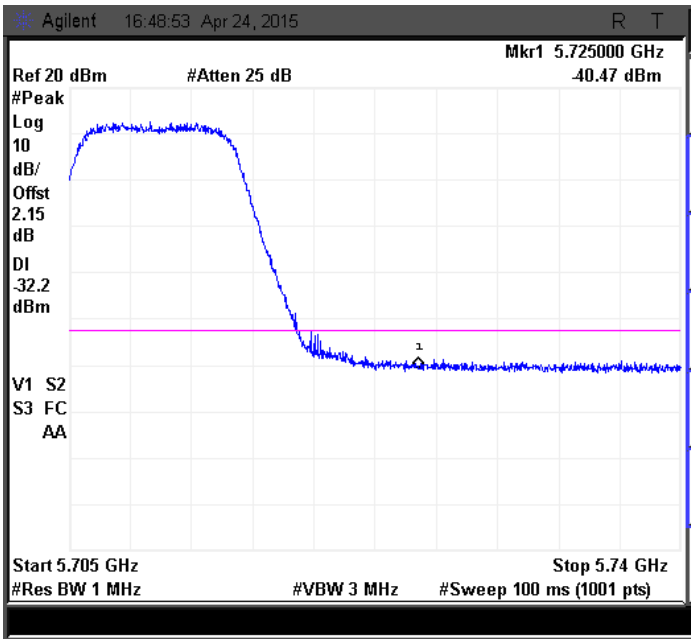

Figure 183: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

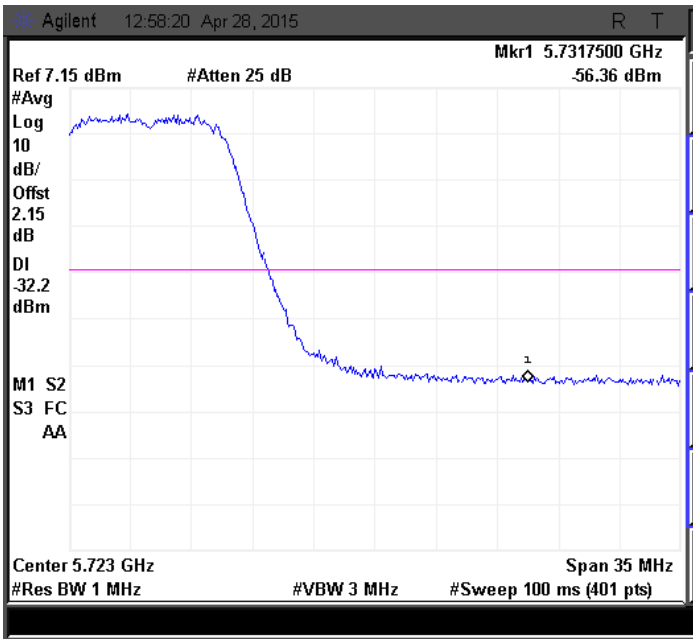

Figure 184: Band edge measured at Ch. 1-Avg

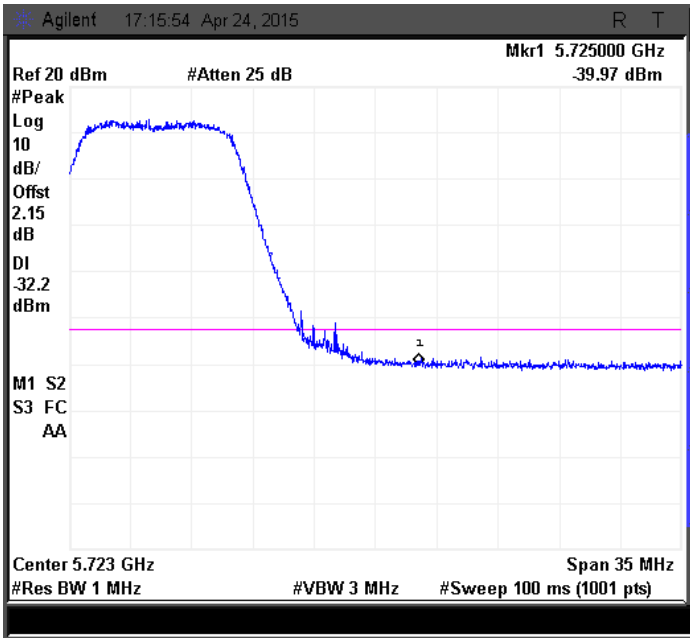

Figure 185: Band edge measured at Ch. 1-Peak

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

5.3.6.6.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

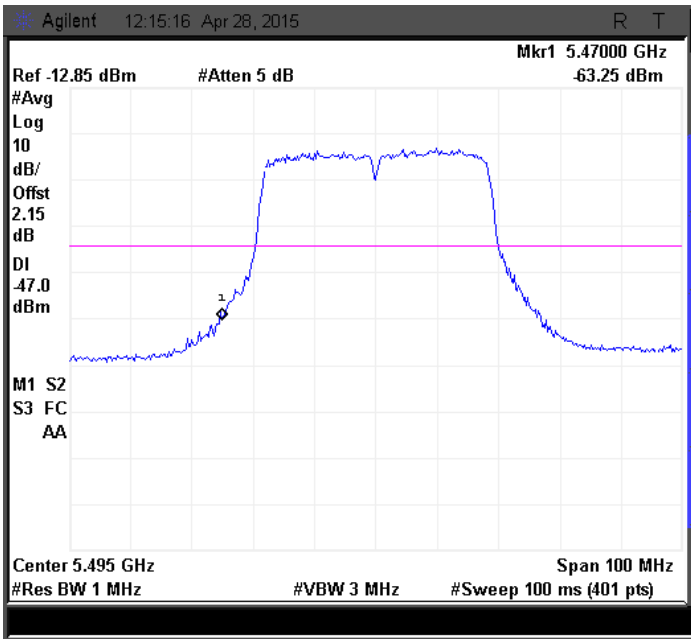

Figure 186: Band edge measured at Ch. 0-Avg

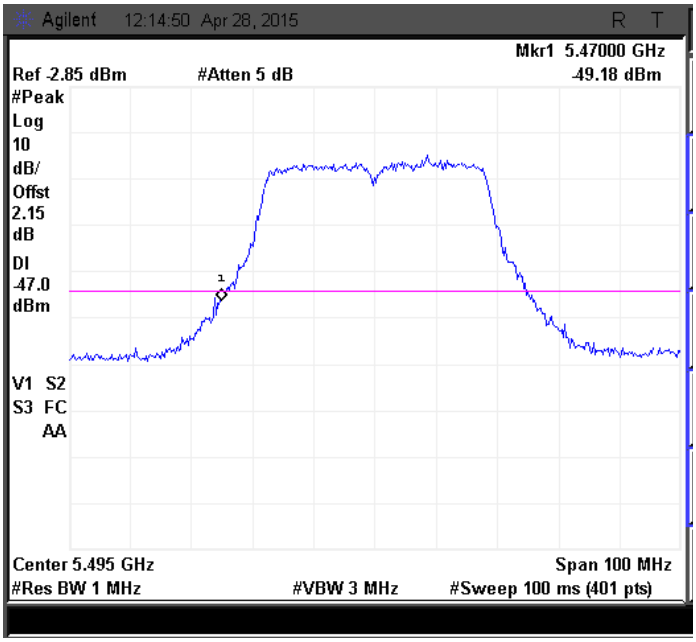

Figure 187: Band edge measured at Ch. 0-Peak.

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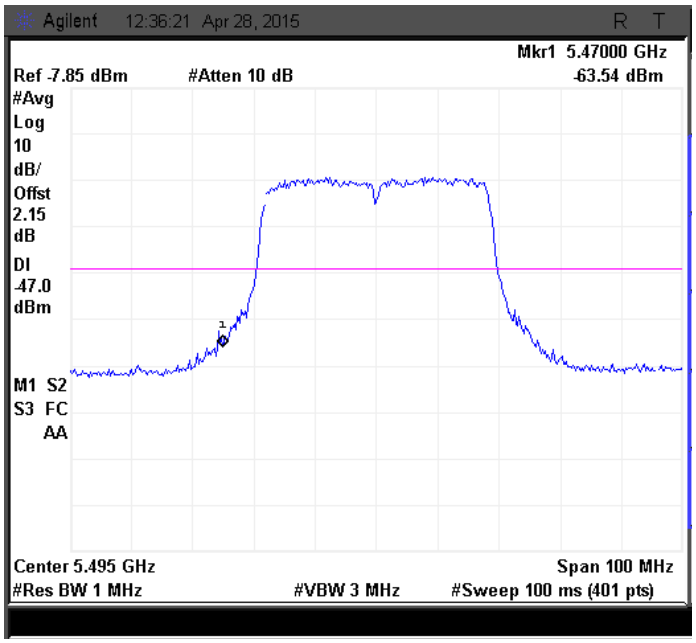

Figure 188: Band edge measured at Ch. 1-Avg

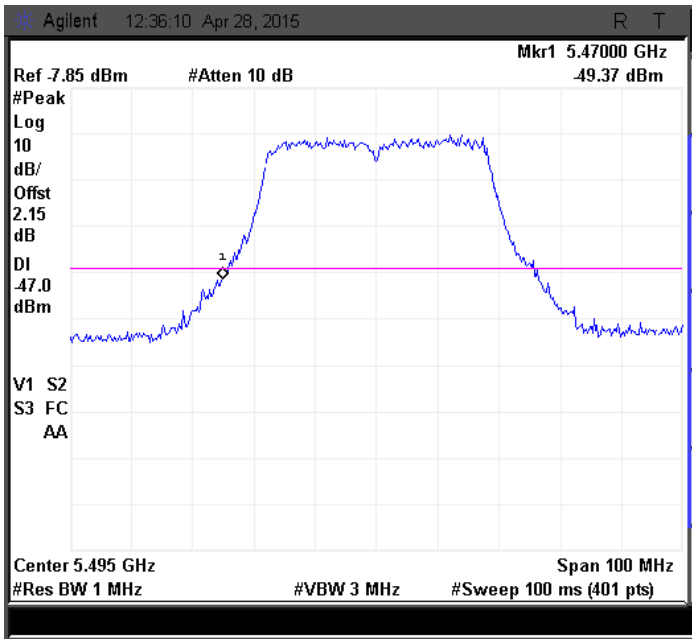

Figure 189: Band edge measured at Ch. 1-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.6.6.2 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

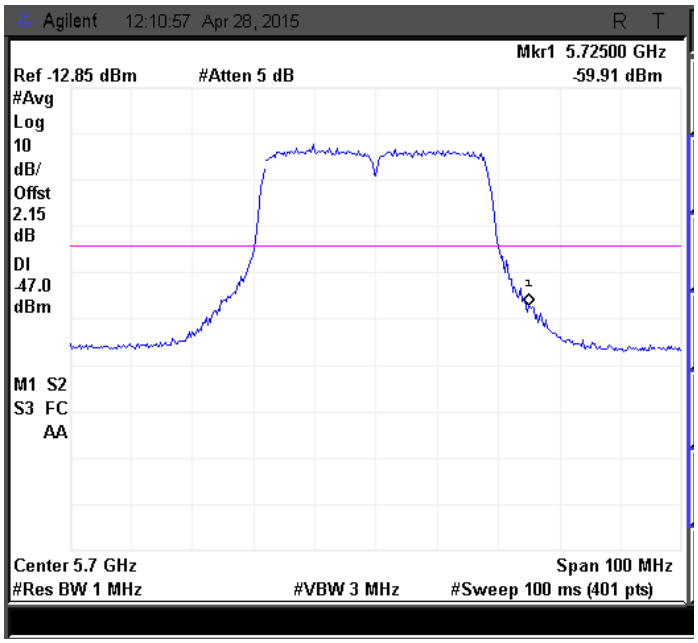

Figure 190: Band edge measured at Ch. 0-Avg

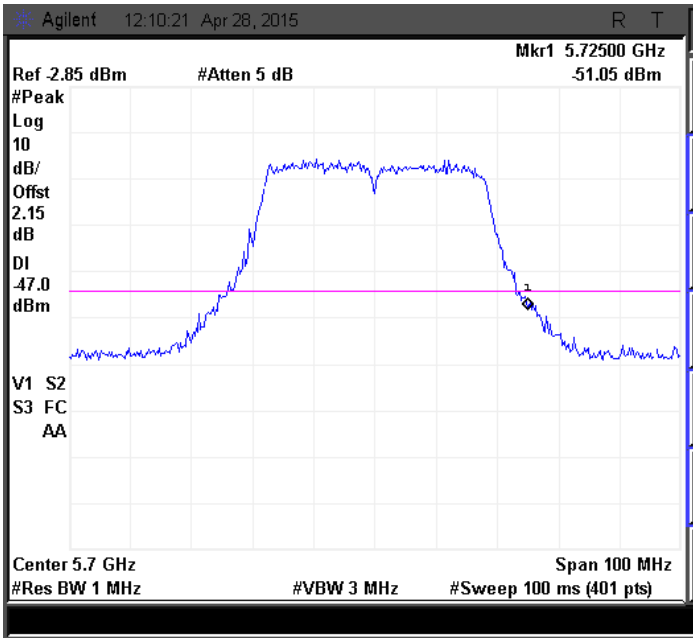

Figure 191: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

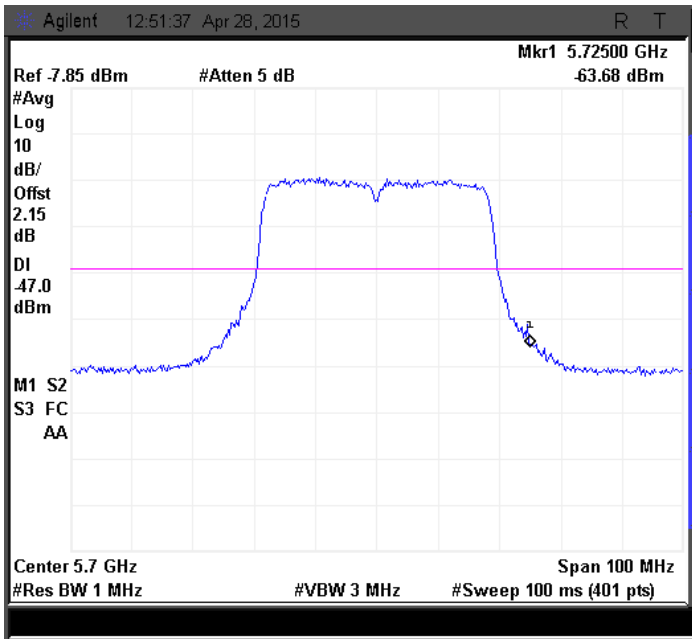

Figure 192: Band edge measured at Ch. 1-Avg

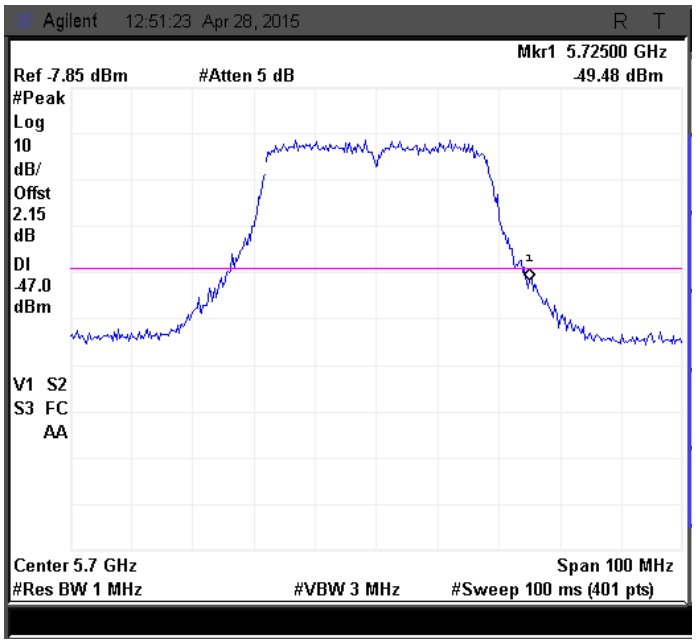

Figure 193: Band edge measured at Ch. 1-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.6.6.3 10MHz Modulation BW-Low channel_5485 MHz

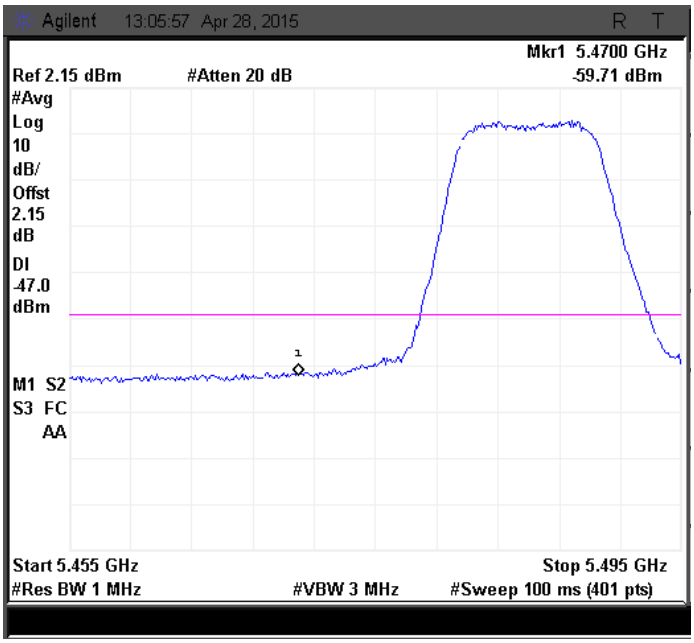

Figure 194: Band edge measured at Ch. 0-Avg

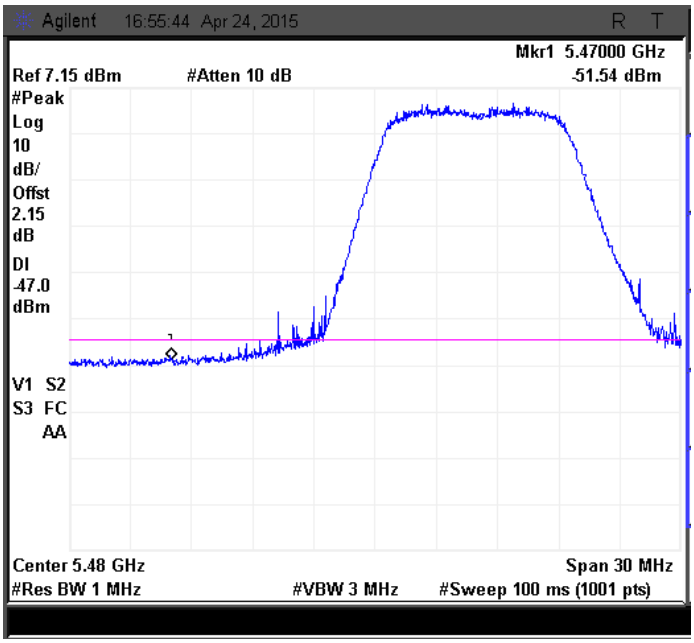

Figure 195: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

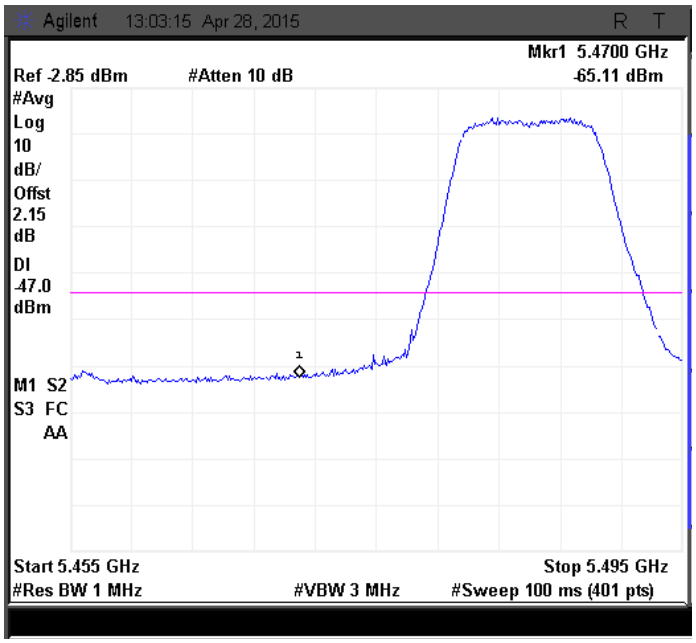

Figure 196: Band edge measured at Ch. 1-Avg

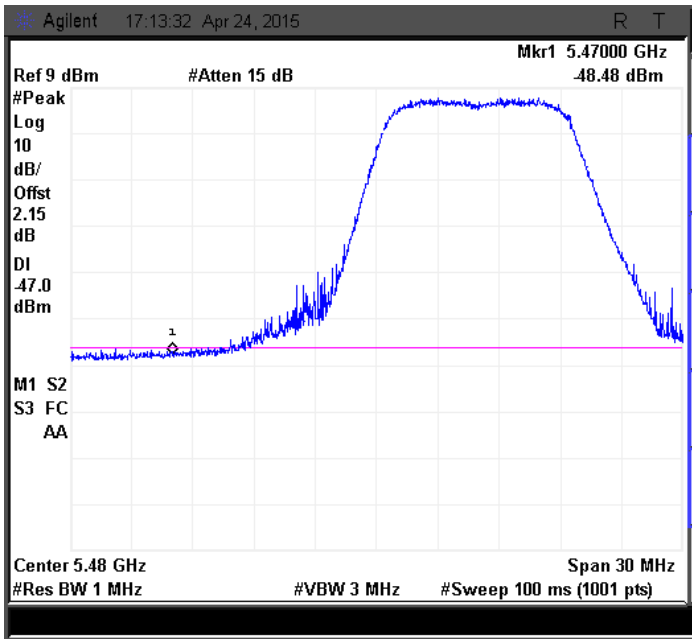

Figure 197: Band edge measured at Ch. 1-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

5.3.6.6.4 10MHz Modulation BW-High channel_5710 MHz

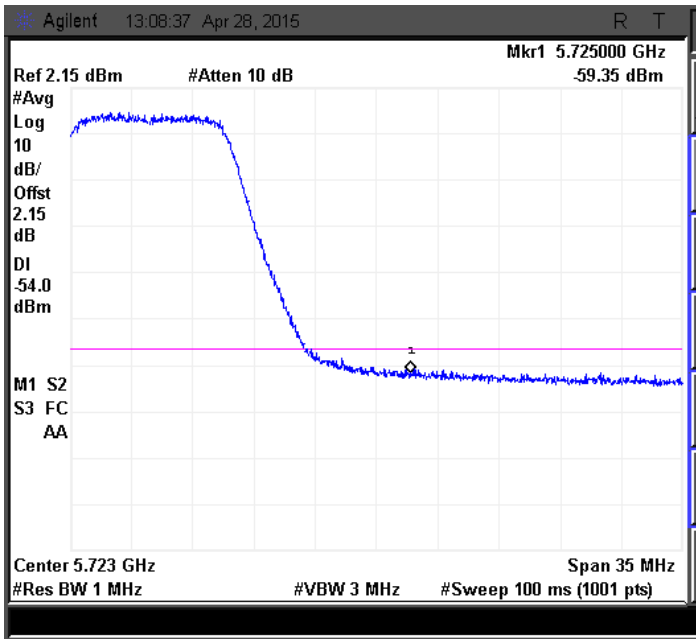

Figure 198: Band edge measured at Ch. 0-Avg

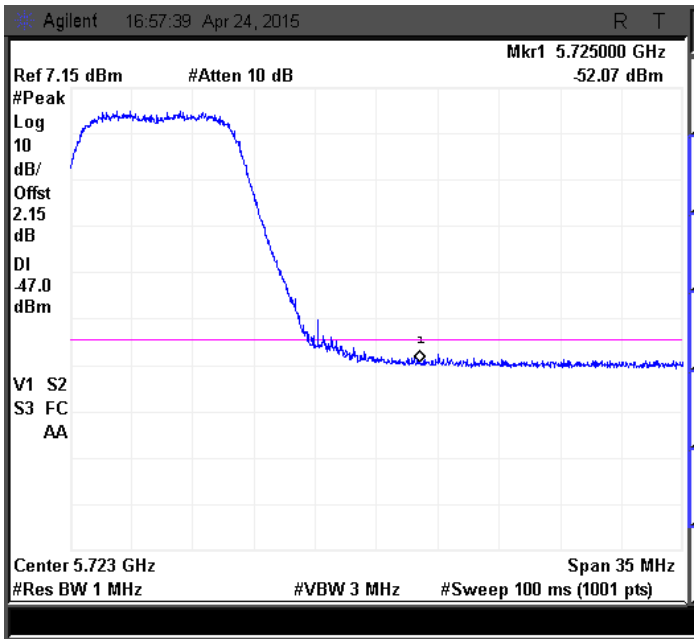

Figure 199: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

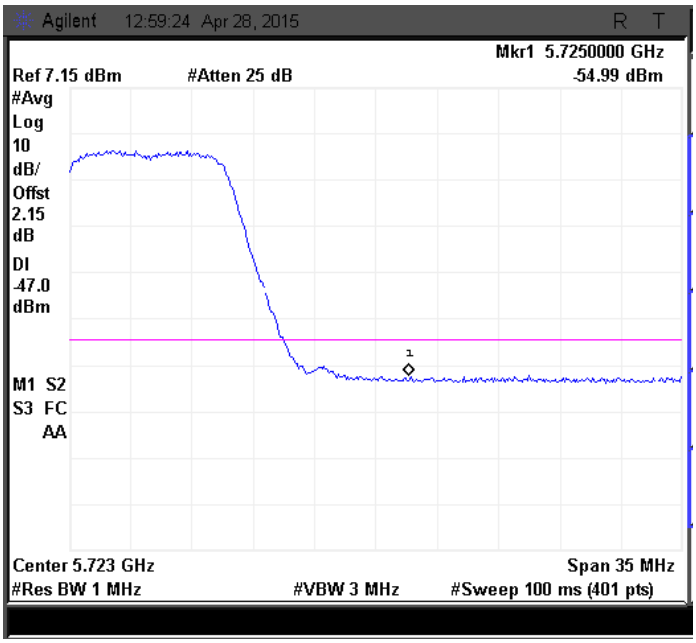

Figure 200: Band edge measured at Ch. 1-Avg

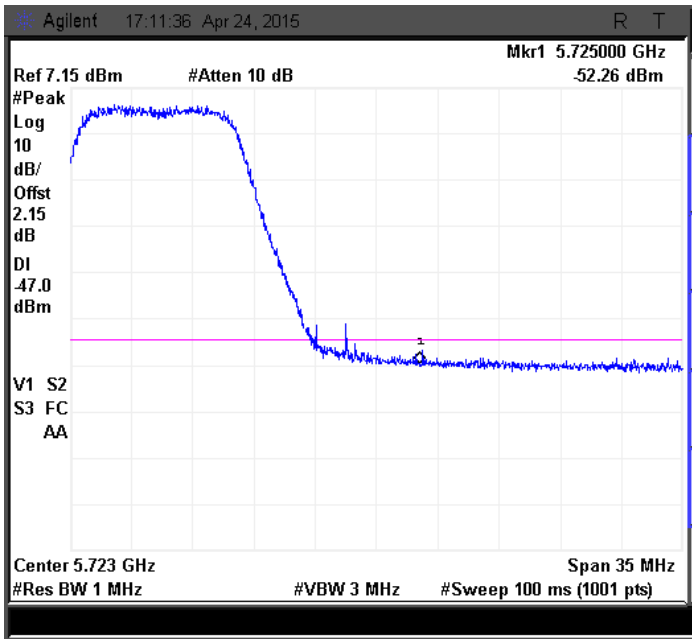

Figure 201: Band edge measured at Ch. 1-Peak

5.3.6.7 RESULT (SUPPORTING GRAPHS / DATA) FOR 24DBI DIDH CONDITION

5.3.6.7.1 40MHZ MODULATION BW-LOW CHANNEL_5495 MHZ

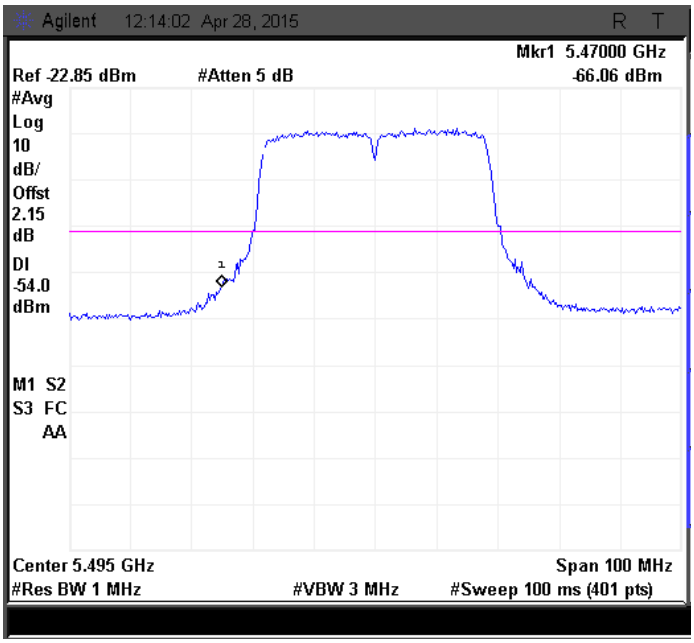

Figure 202: Band edge measured at Ch. 0-Avg

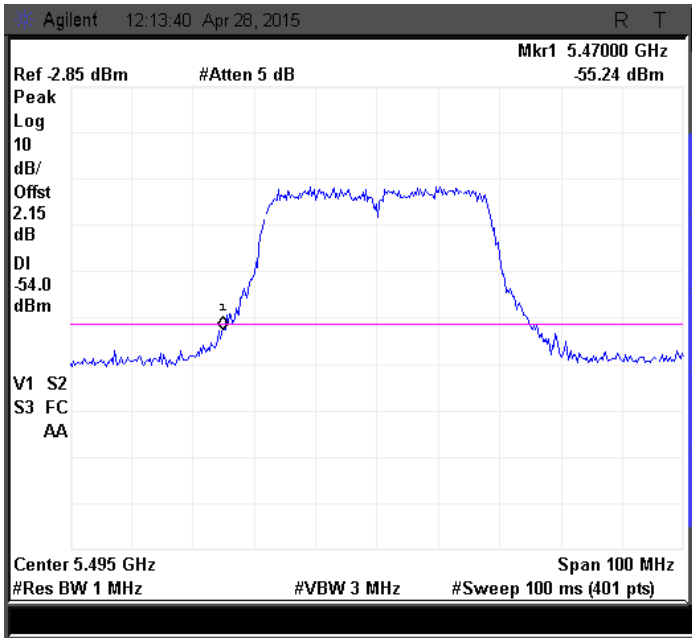

Figure 203: Band edge measured at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

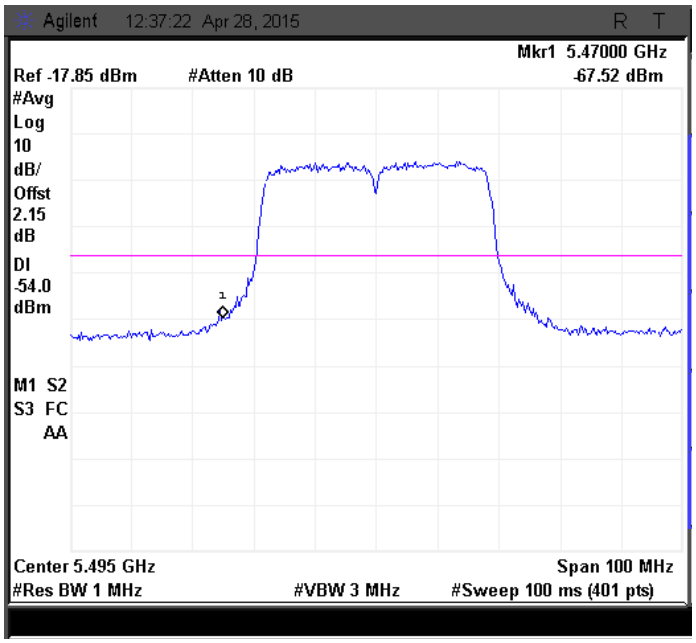

Figure 204: Band edge measured at Ch. 1-Avg

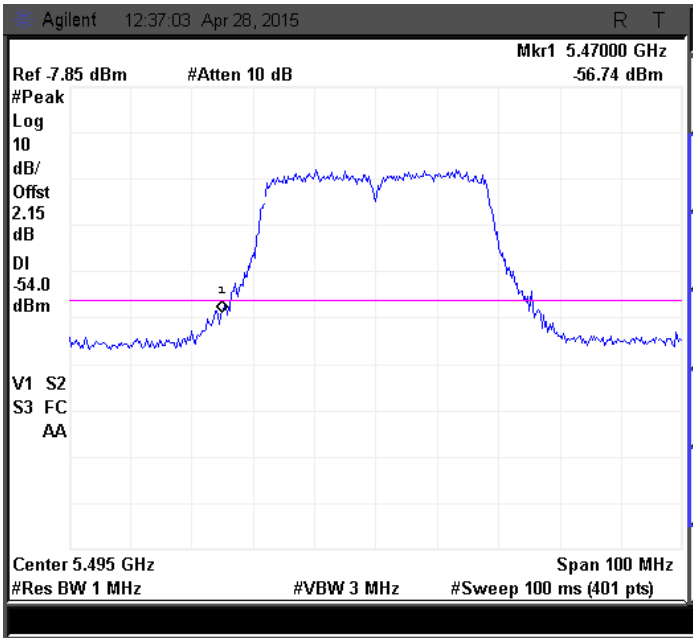

Figure 205: Band edge measured at Ch. 1-Peak

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5.3.6.7.2 40MHz MODULATION BW-HIGH CHANNEL_5700MHz

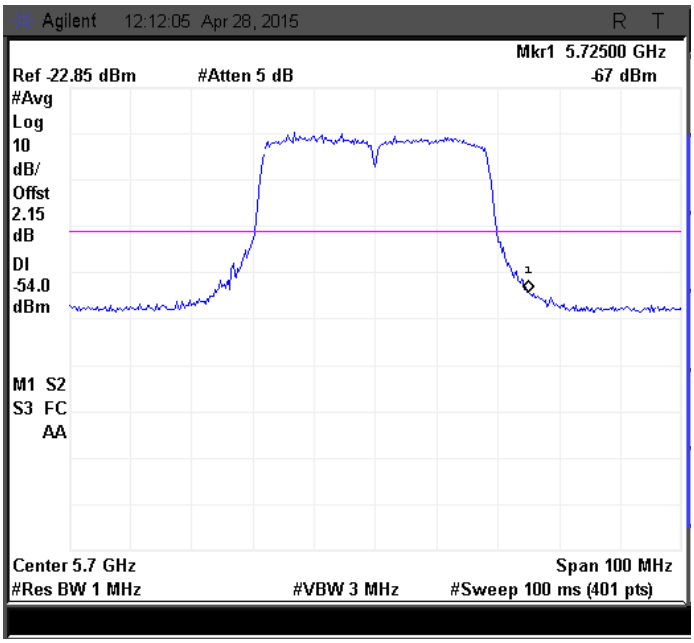

Figure 206: Band edge measured at Ch. 0-Avg

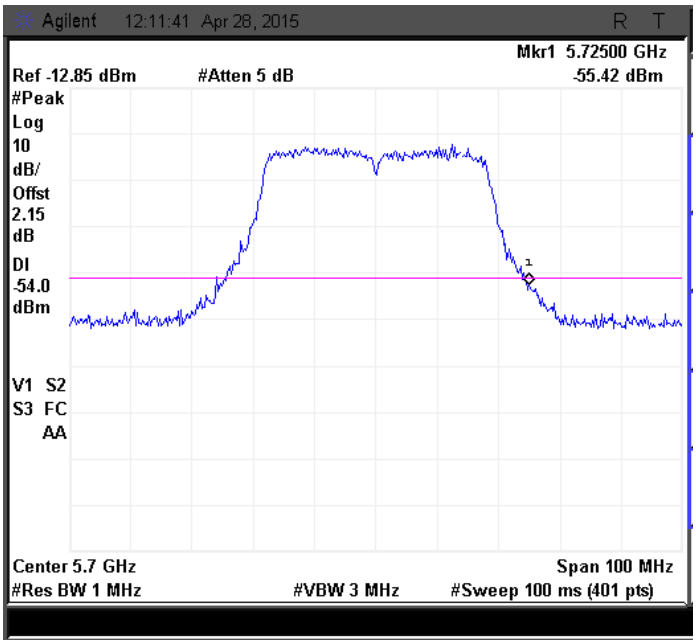

Figure 207: Band edge measured at Ch. 0-Peak

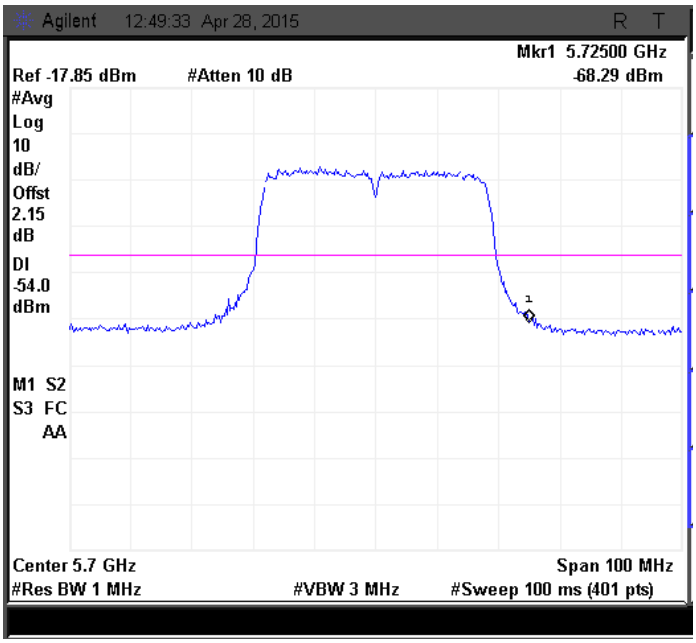

Figure 208: Band edge measured at Ch. 1-Avg

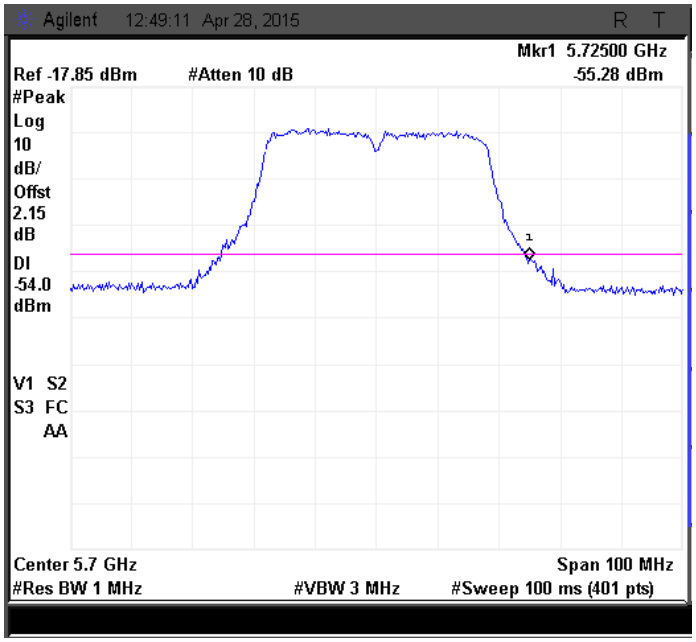

Figure 209: Band edge measured at Ch. 1-Peak

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5.3.6.7.3 10MHz Modulation BW-Low channel_5485 MHz

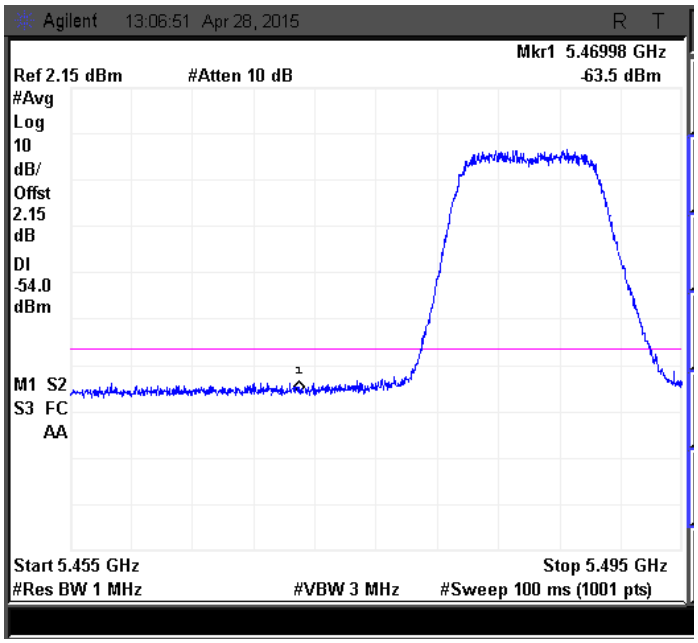

Figure 210: Band edge measured at Ch. 0-Avg

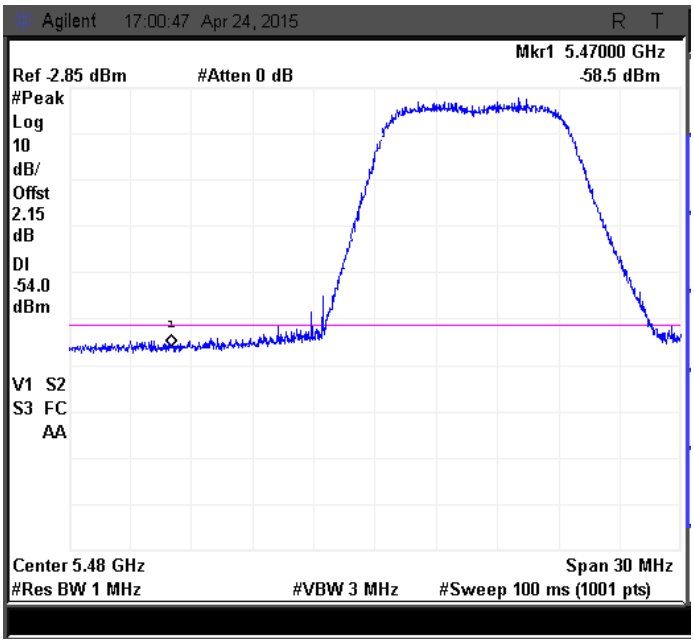

Figure 211: Band edge measured at Ch. 0-Peak

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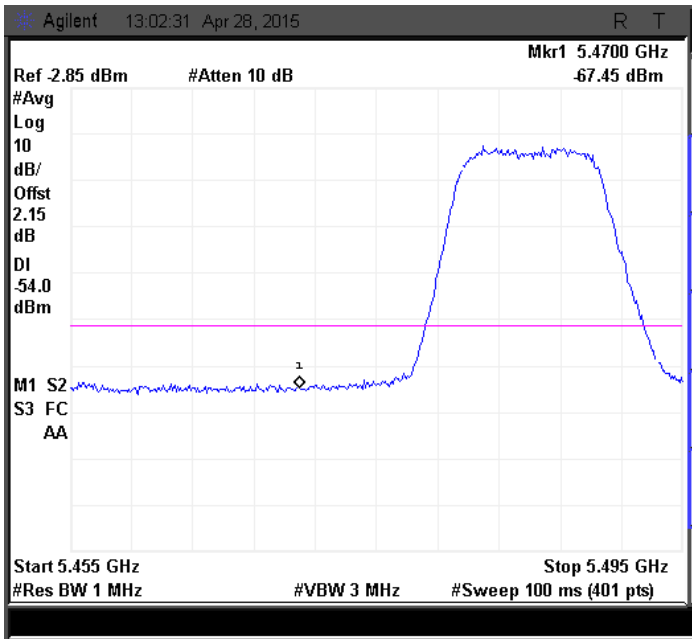

Figure 212: Band edge measured at Ch. 1-Avg

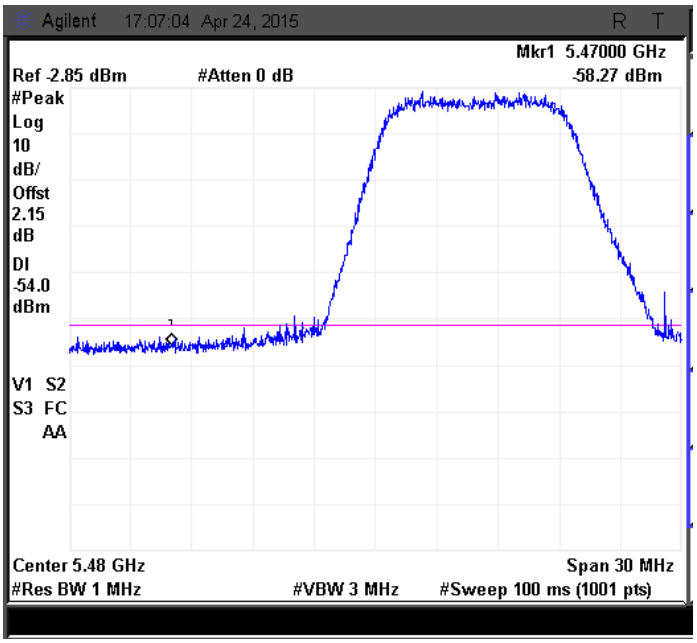

Figure 213: Band edge measured at Ch. 1-Peak

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5.3.6.7.4 10MHz Modulation BW-High channel_5710 MHz

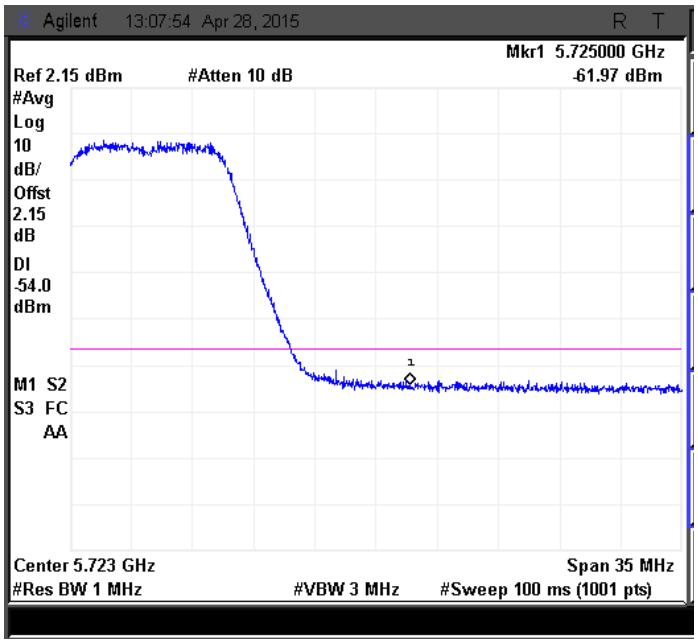

Figure 214: Band edge measured at Ch. 0-Avg

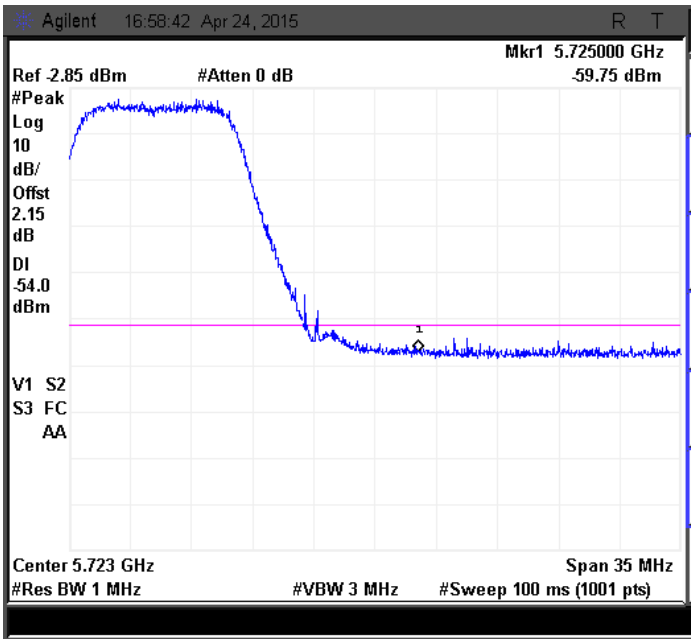

Figure 215: Band edge measured at Ch. 0-Peak

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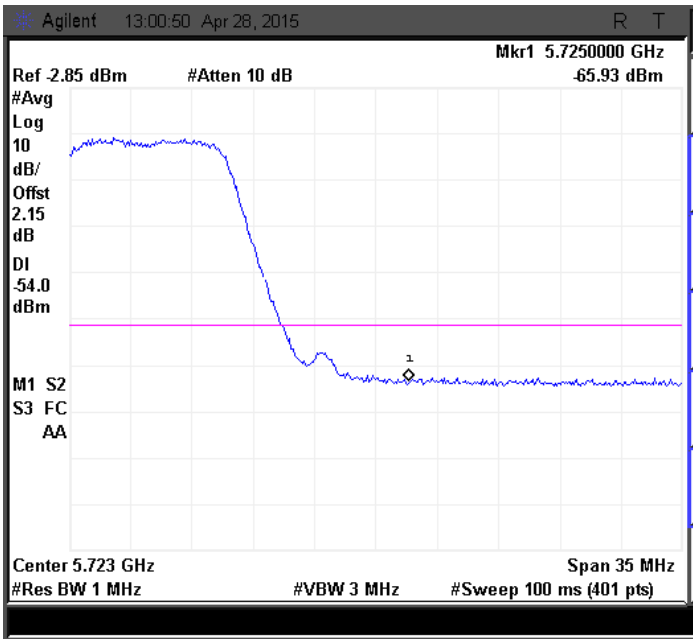

Figure 216: Band edge measured at Ch. 1-Avg

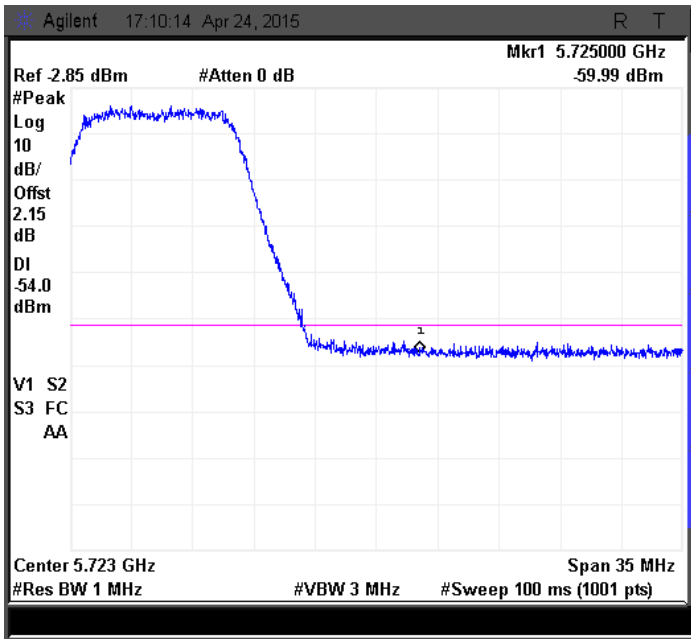

Figure 217: Band edge measured at Ch. 1-Peak

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5.3.7 UNDESIRABLE EMISSION OUTSIDE THE INTENTIONAL BAND

5.3.7.1 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 40GHz
Resolution Bandwidth	1MHz
Video Bandwidth	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	Harsha K
Test Date	12th Mar 2015 to 28thApr 2015

5.3.7.2 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

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

5.3.7.3 TEST SETUP

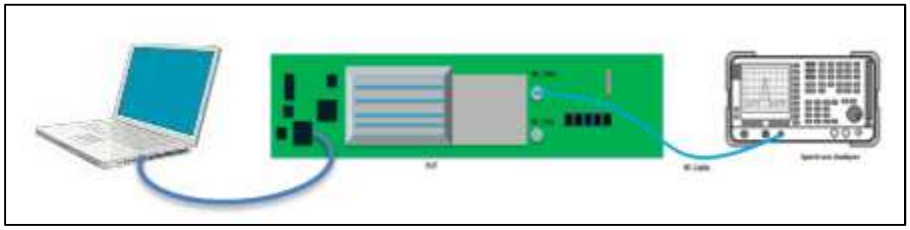

Figure 218: Typical test setup for Conducted Test setup

5.3.7.4 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 D01 General UNII Test Procedures Old Rules v01r04".** 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.

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5.3.7.5 RESULT (SUPPORTING GRAPHS / DATA) FOR BASIC CONDITION

5.3.7.5.1 40MHz MODULATION BW - LOW CHANNEL_5495MHz

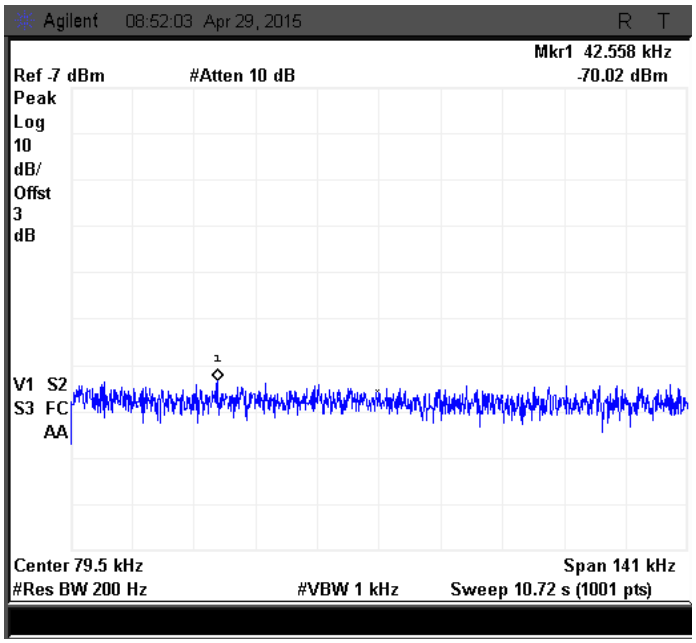

Figure 219: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

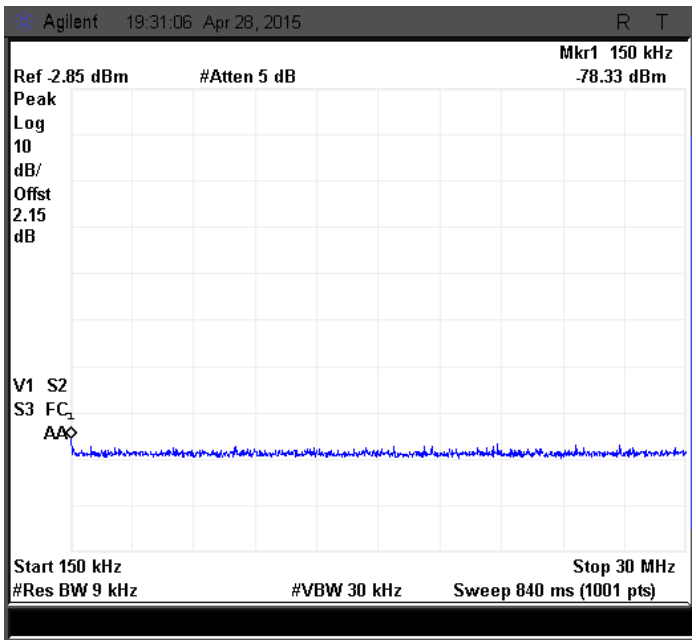

Figure 220: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

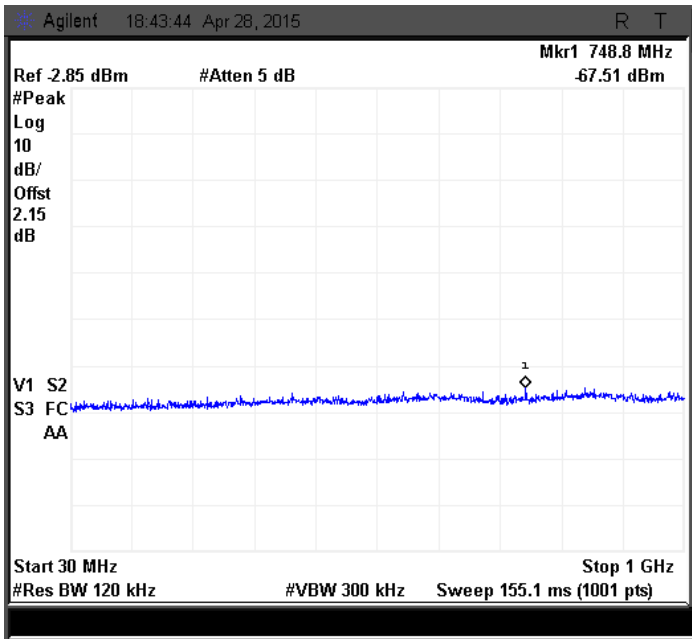

Figure 221: Spurious emission measured from 30 MHz to 1GHz at Ch. 0-Peak

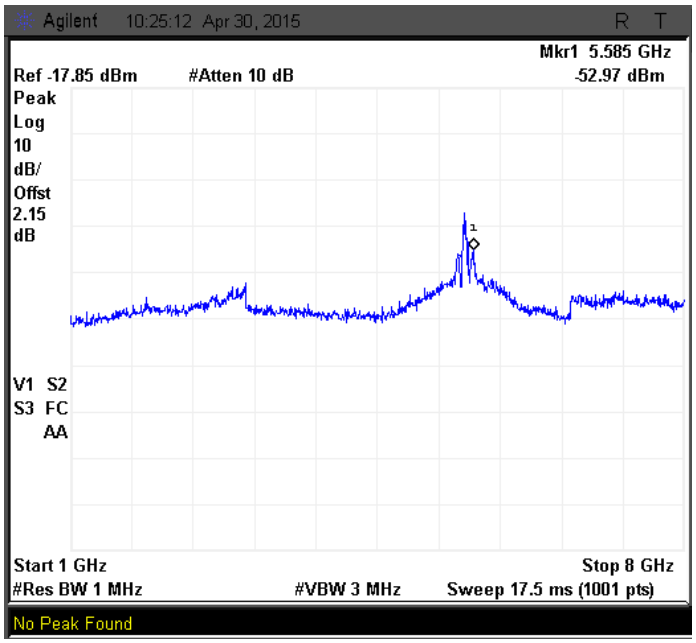

Figure 222: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

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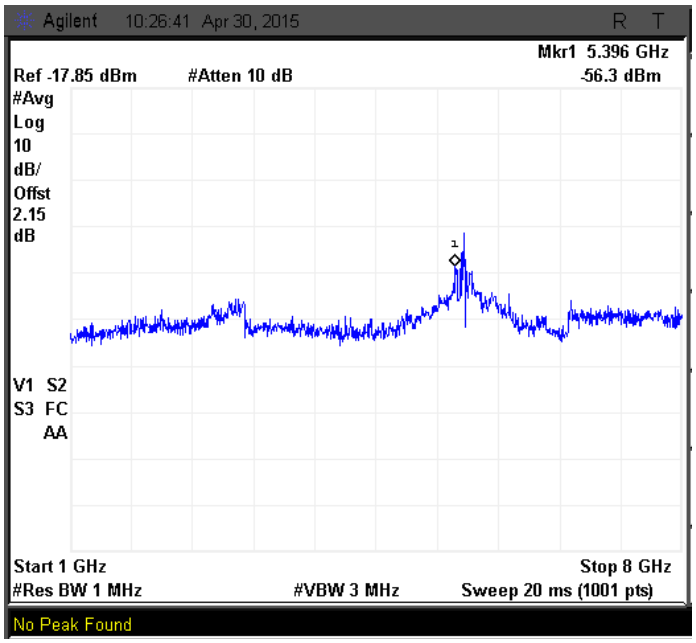

Figure 223: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

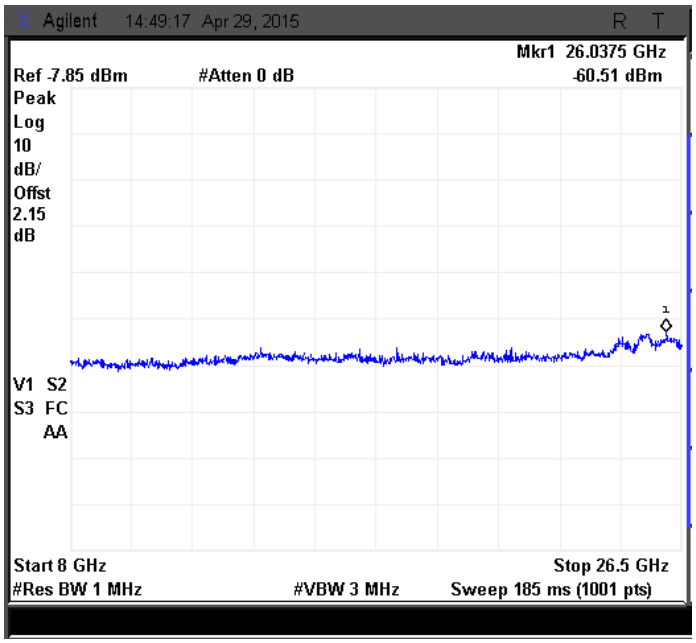

Figure 224: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

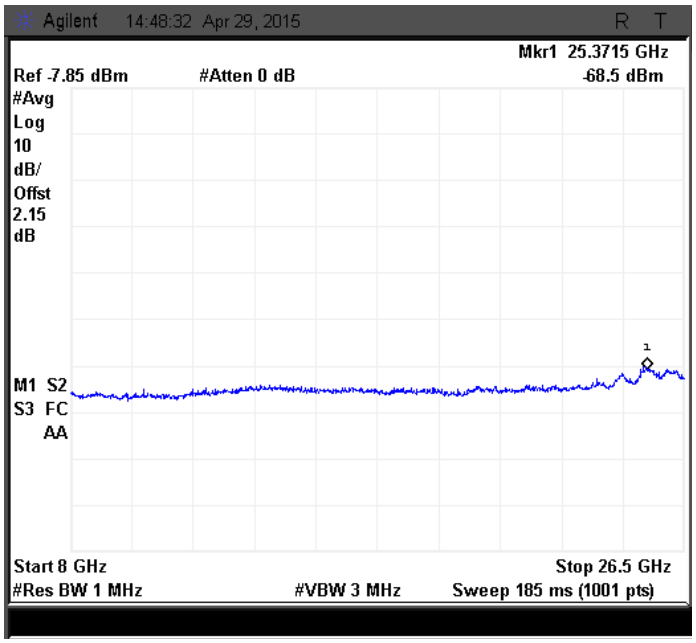

Figure 225: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

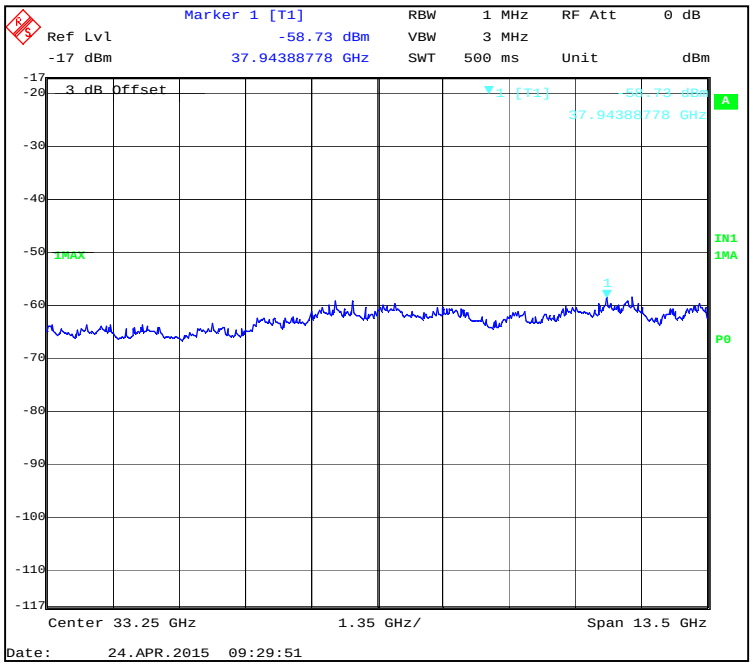

Figure 226: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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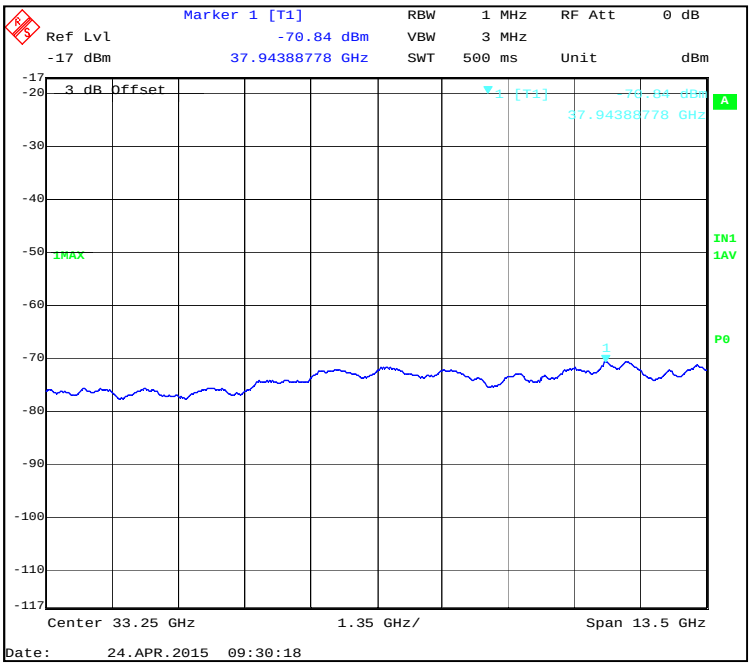

Figure 227: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg

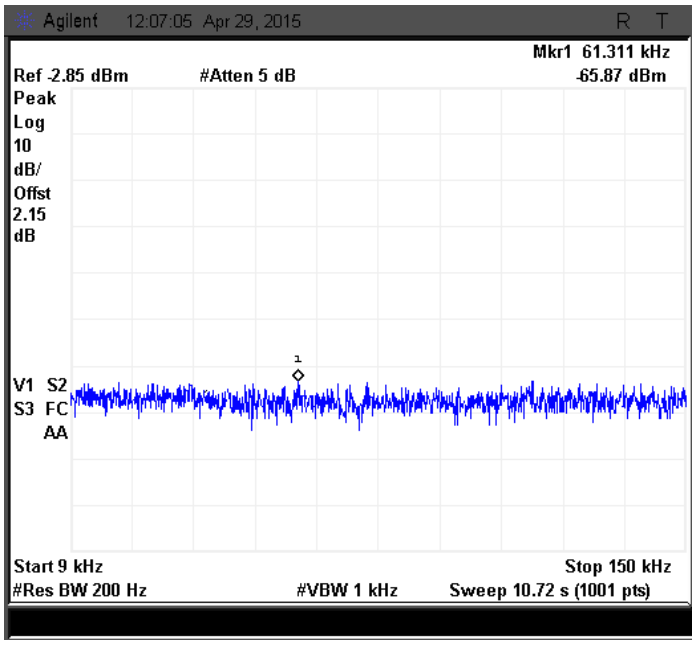

Figure 228: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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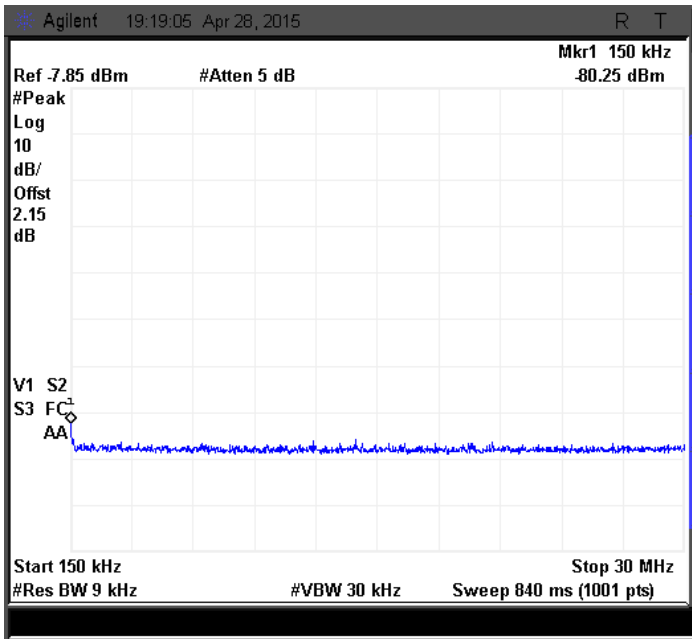

Figure 229: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

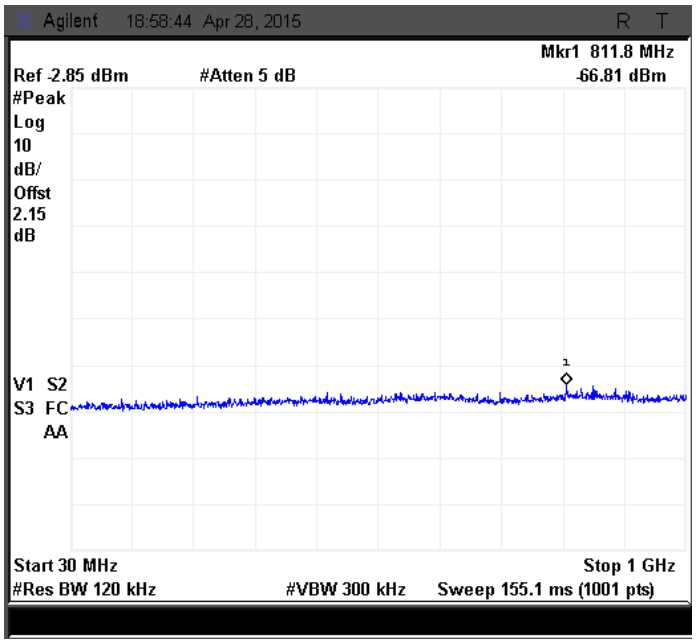

Figure 230: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

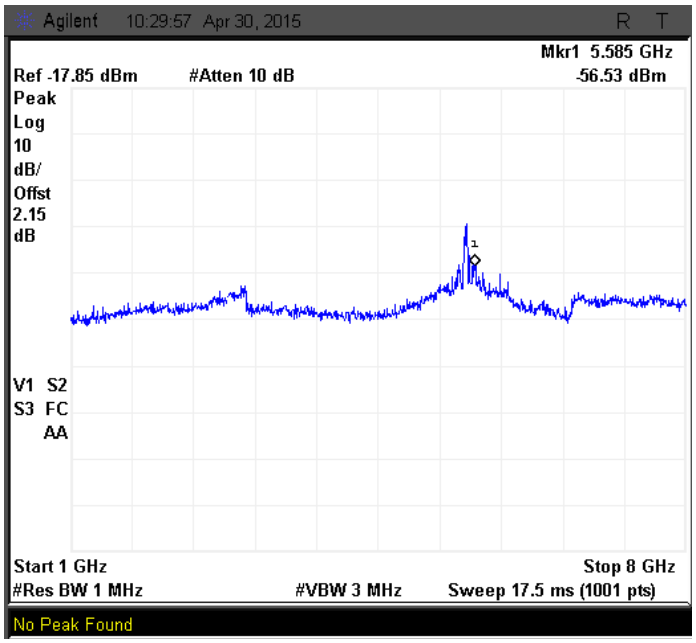

Figure 231: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

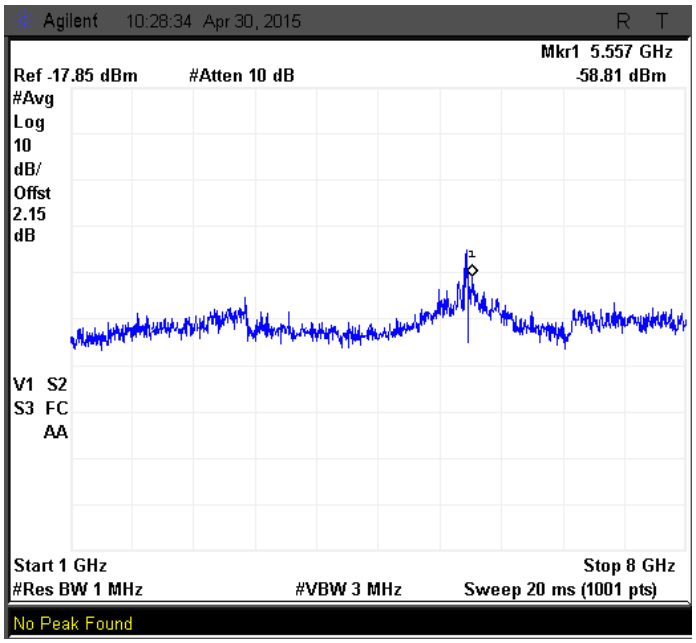

Figure 232: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

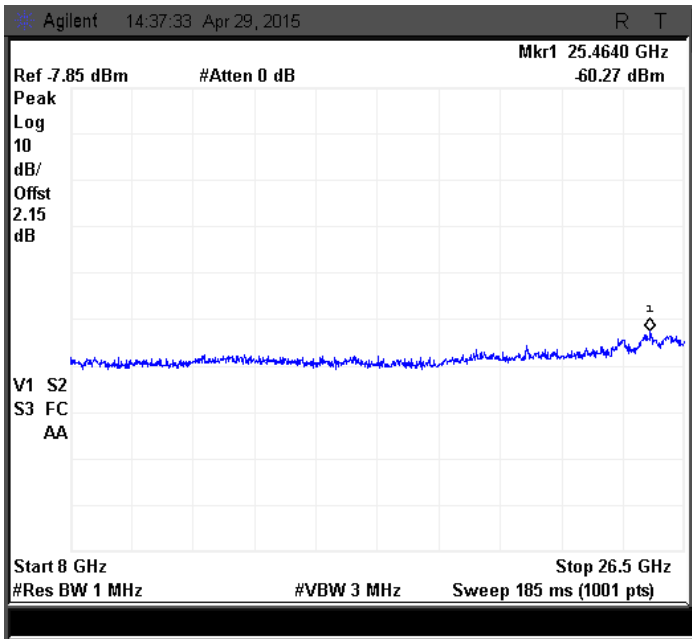

Figure 233: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

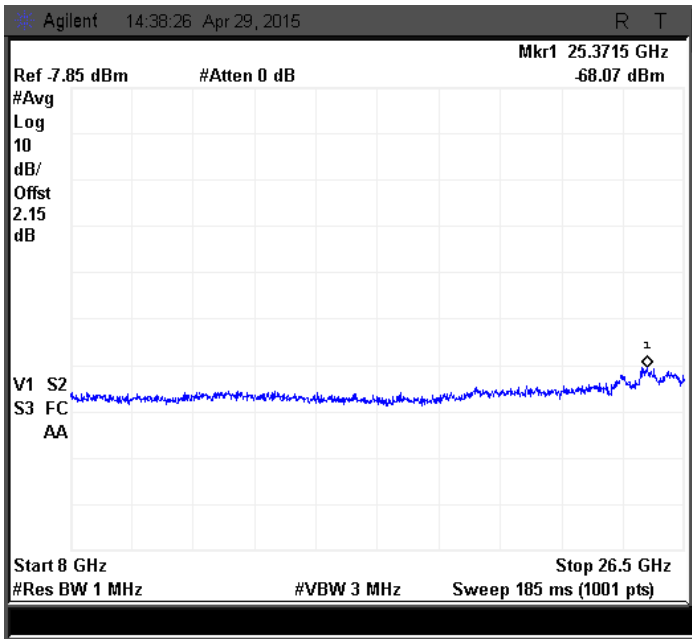

Figure 234: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

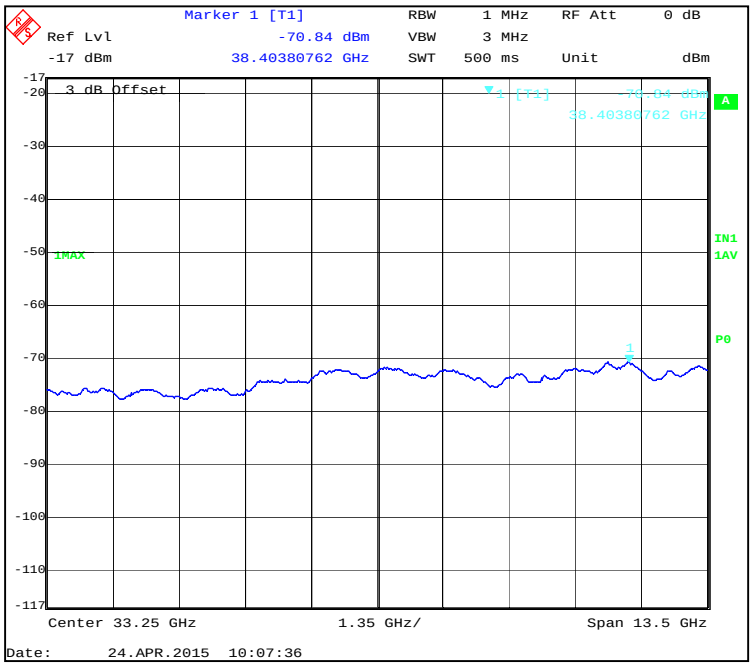

Figure 235: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Avg

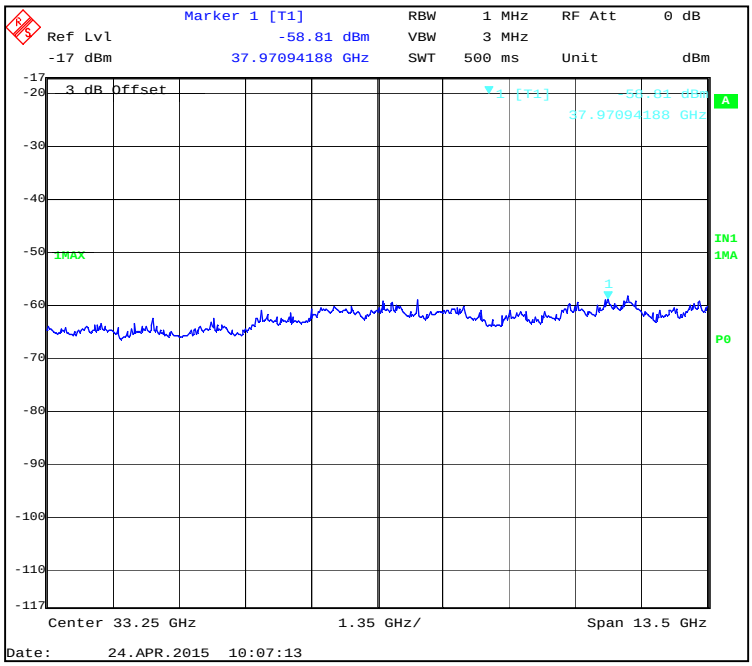

Figure 236: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.5.2 40MHz MODULATION BW - MID CHANNEL_5550MHz

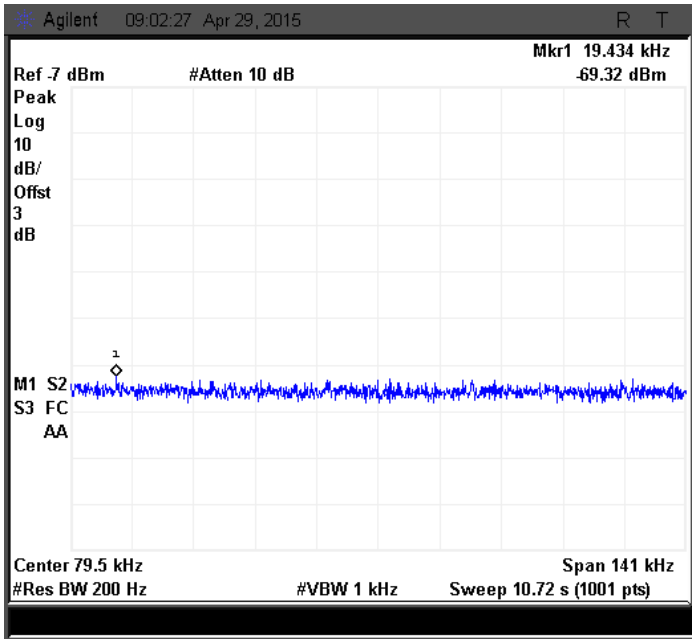

Figure 237: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

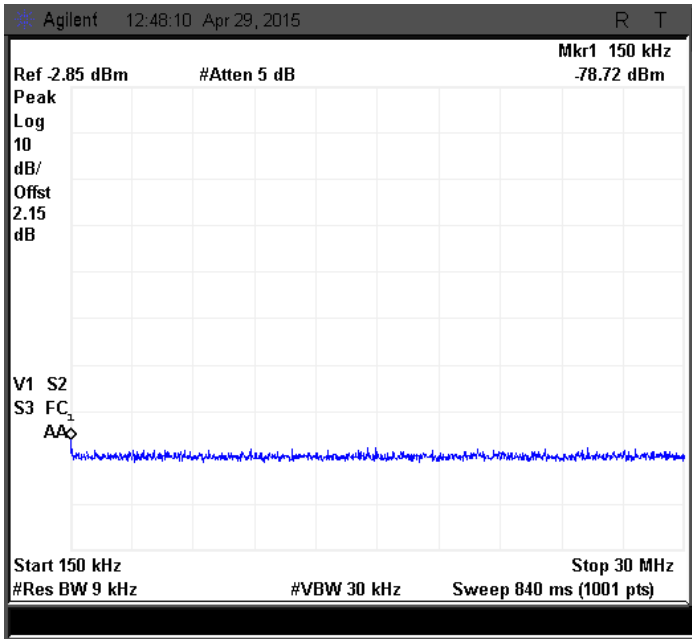

Figure 238: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

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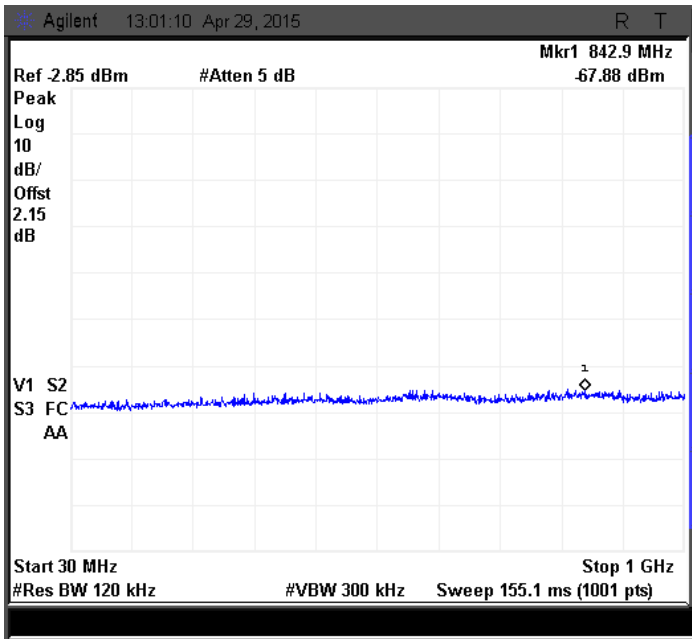

Figure 239: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

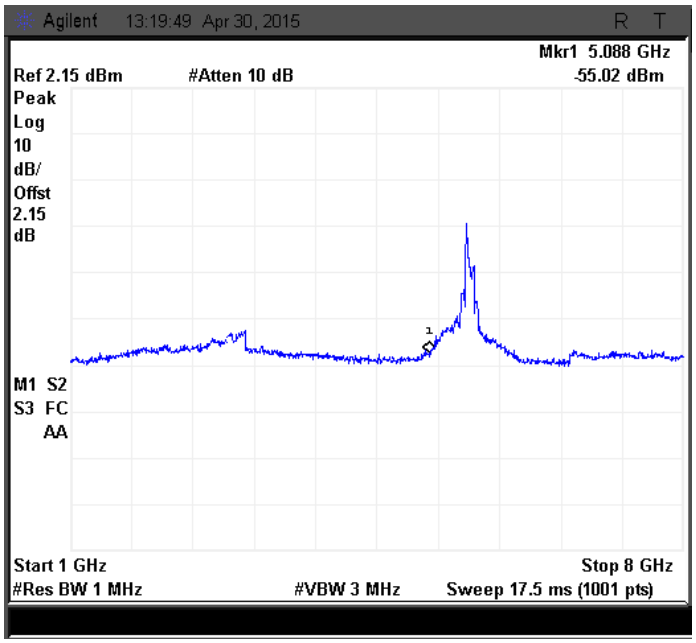

Figure 240: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

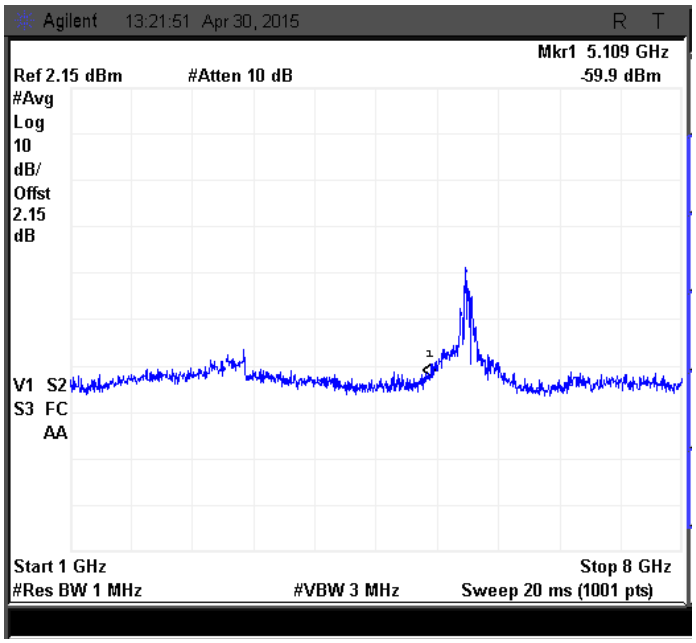

Figure 241: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

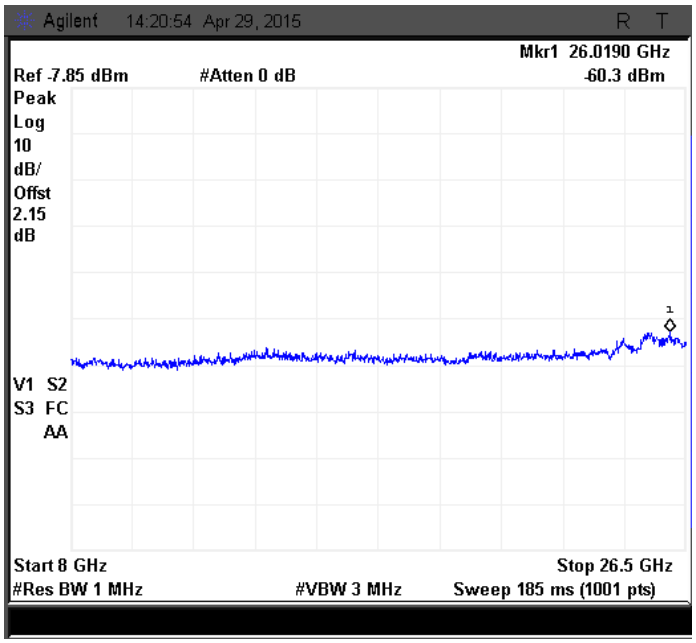

Figure 242: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

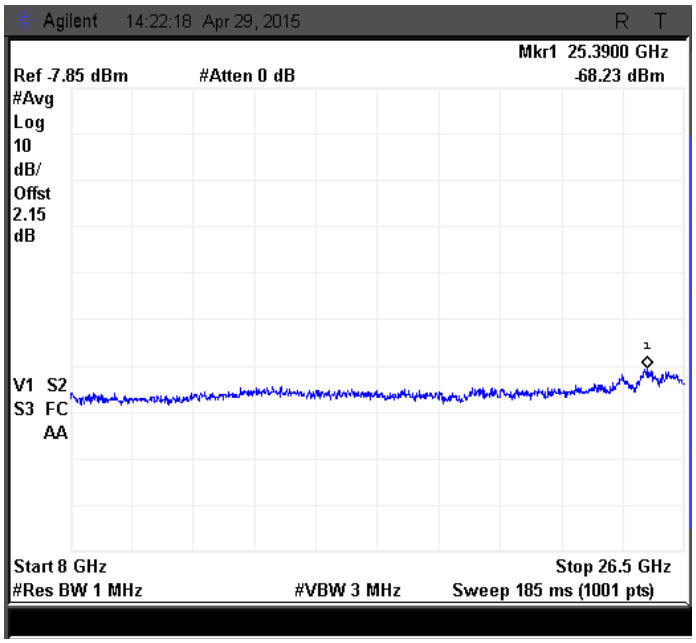

Figure 243: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

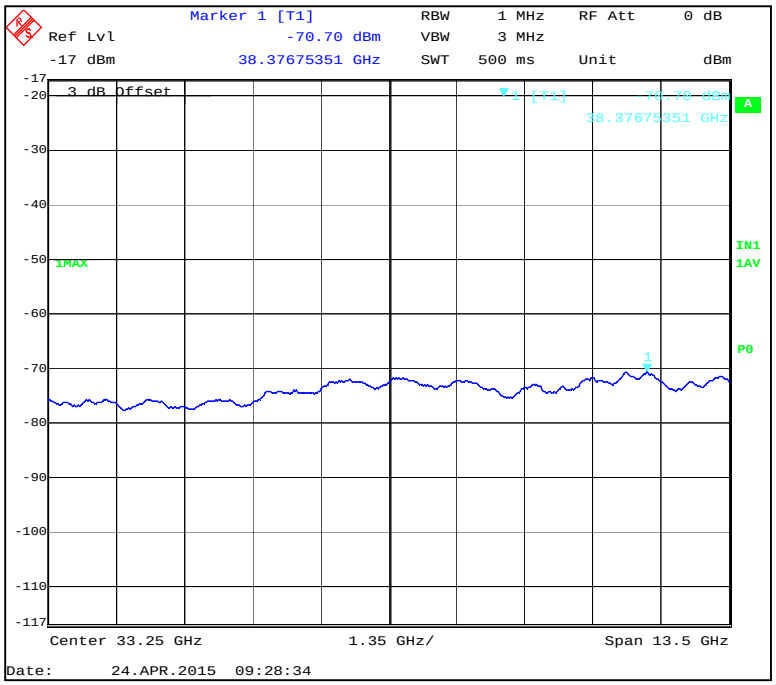

Figure 244: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

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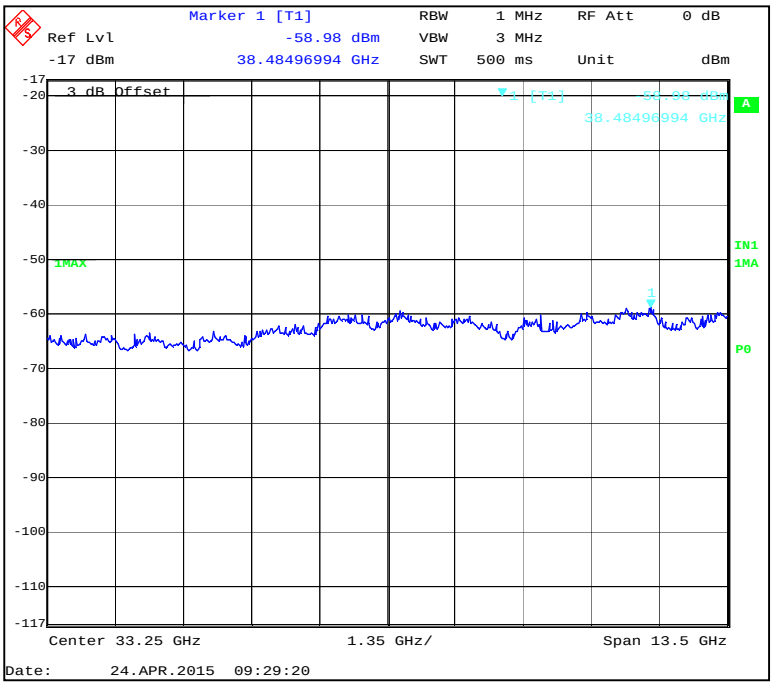

Figure 245: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

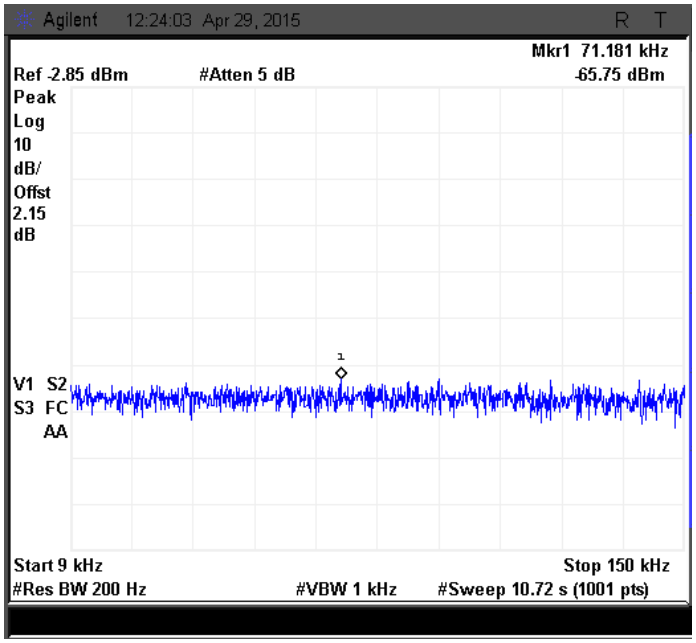

Figure 246: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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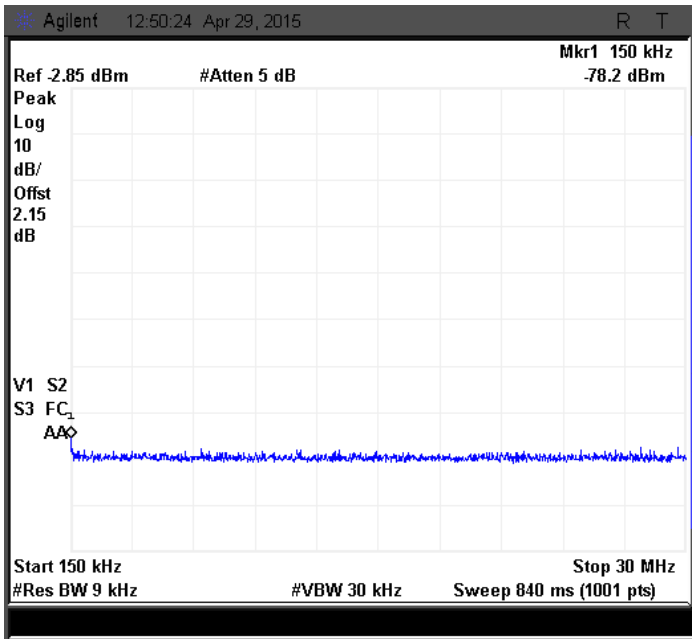

Figure 247: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

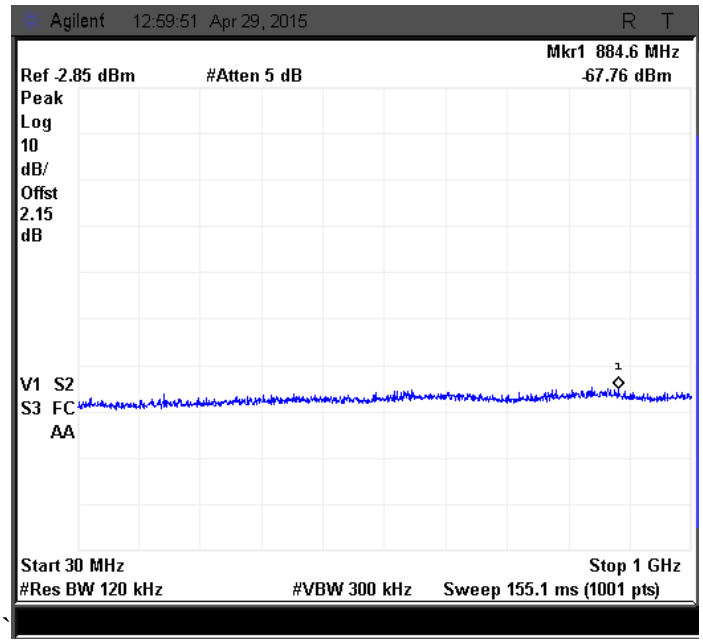

Figure 248: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

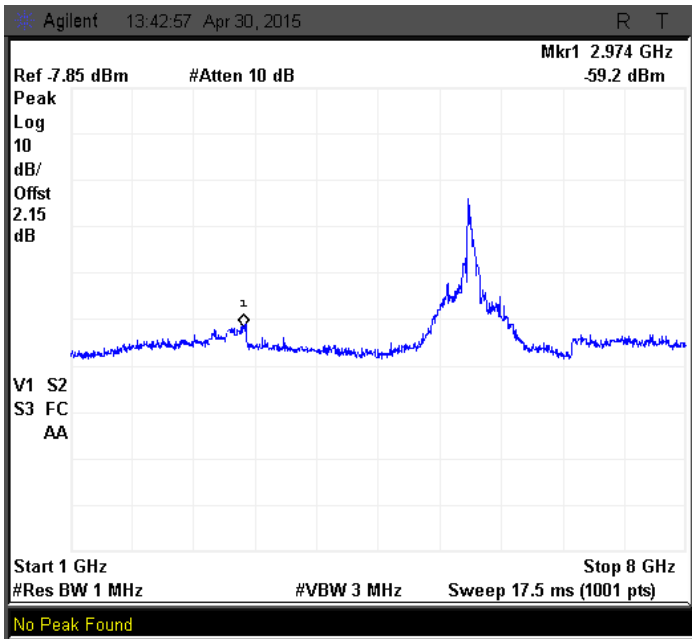

Figure 249: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

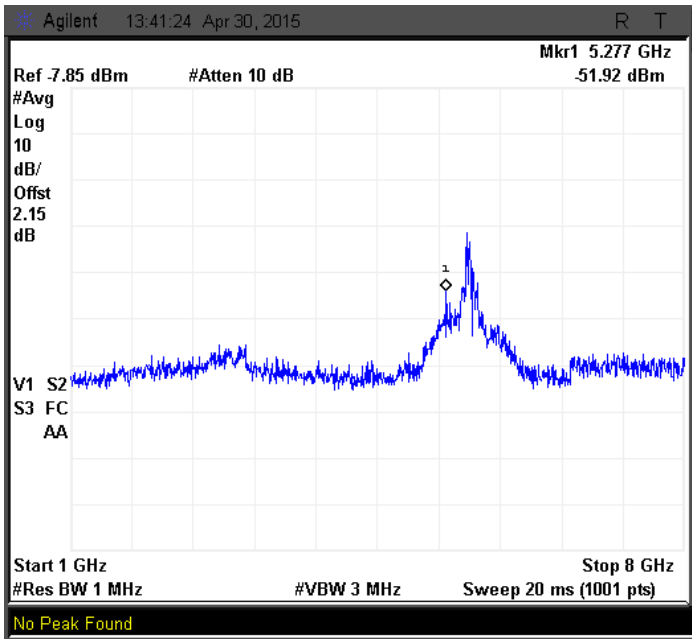

Figure 250: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

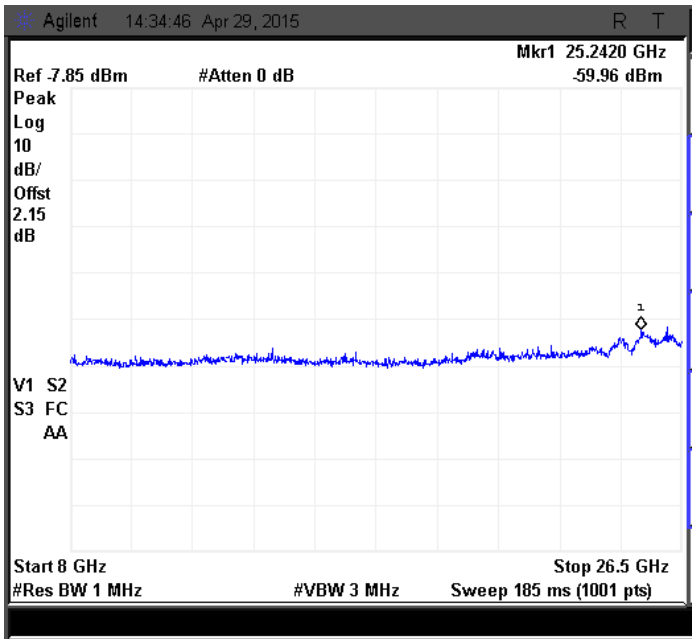

Figure 251: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

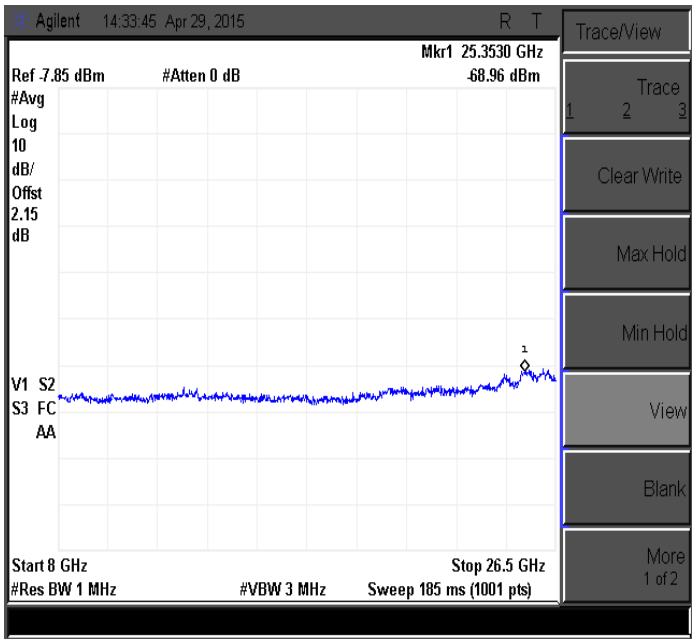

Figure 252: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

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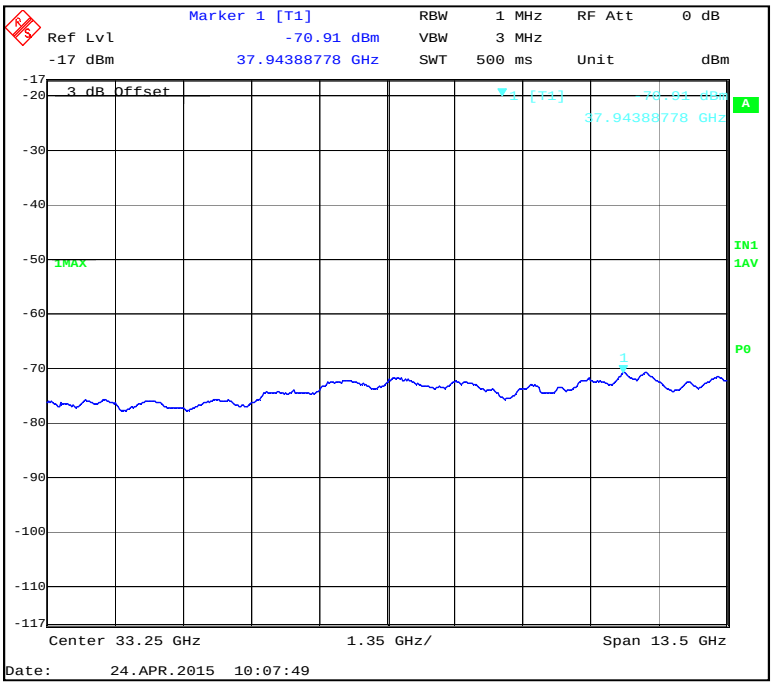

Figure 253: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

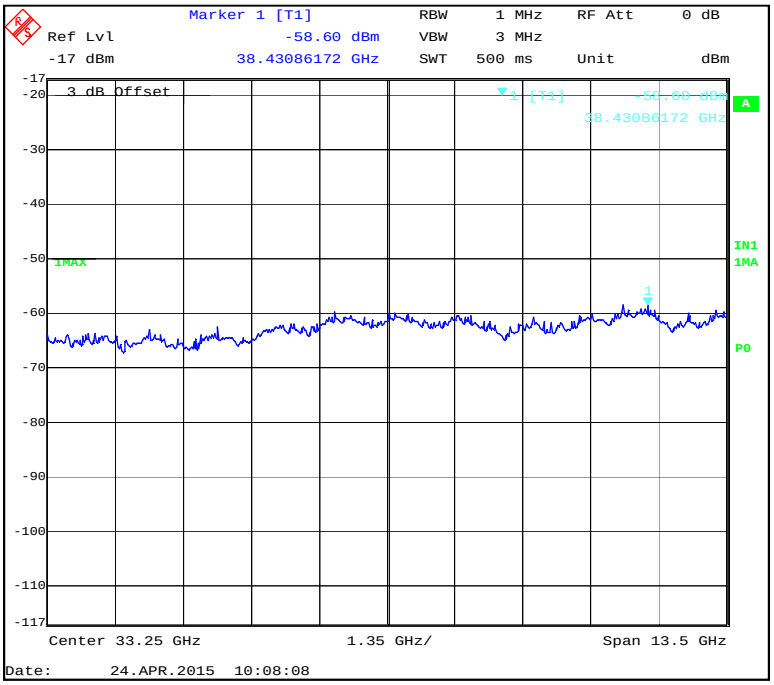

Figure 254: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.5.3 40MHz MODULATION BW - HIGH CHANNEL_5700MHz

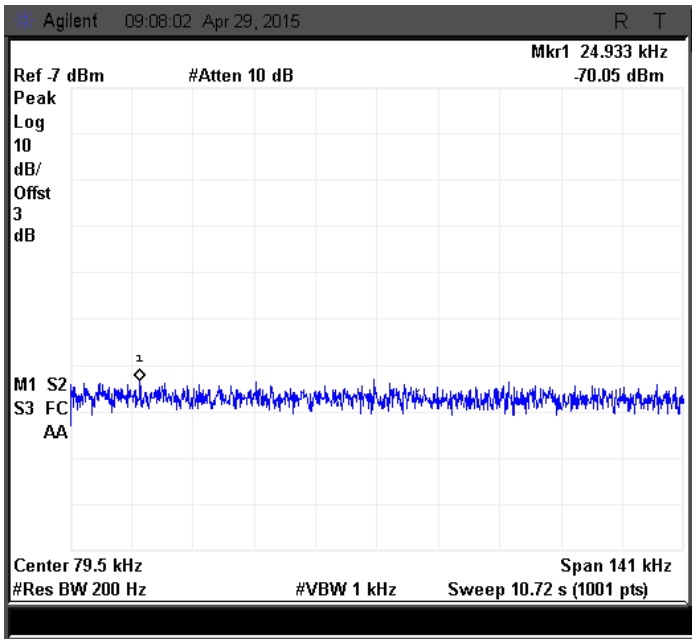

Figure 255: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

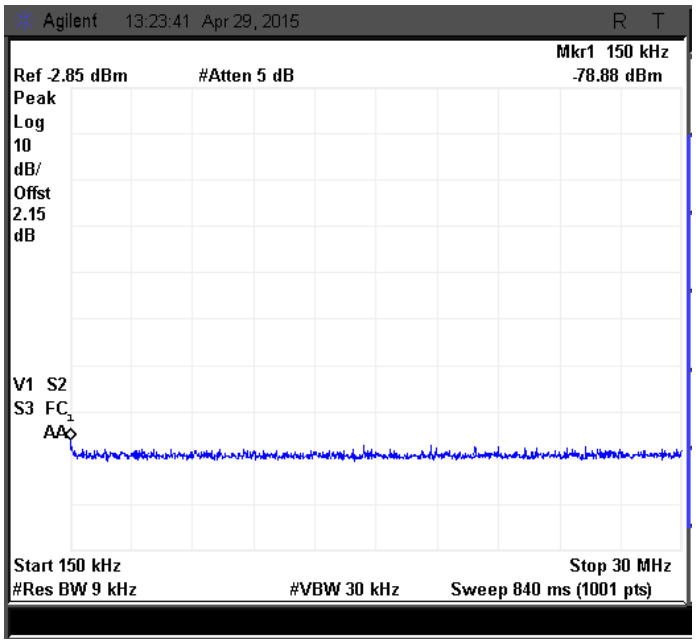

Figure 256: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

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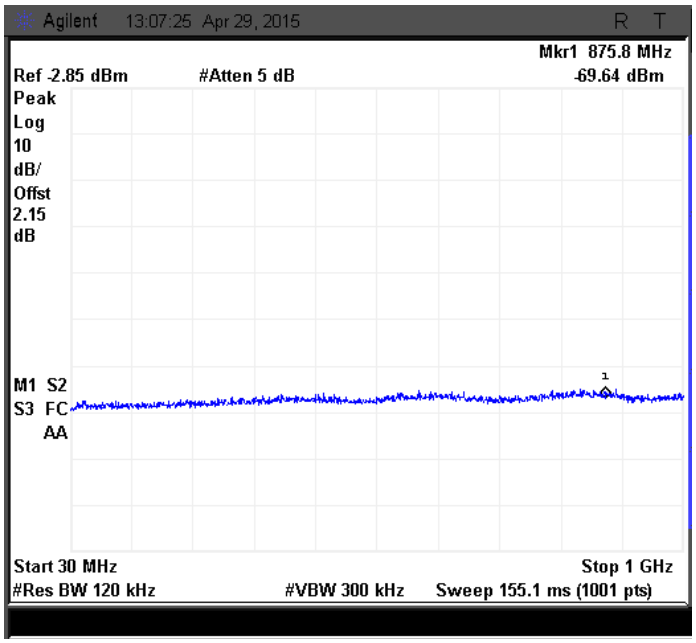

Figure 257: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

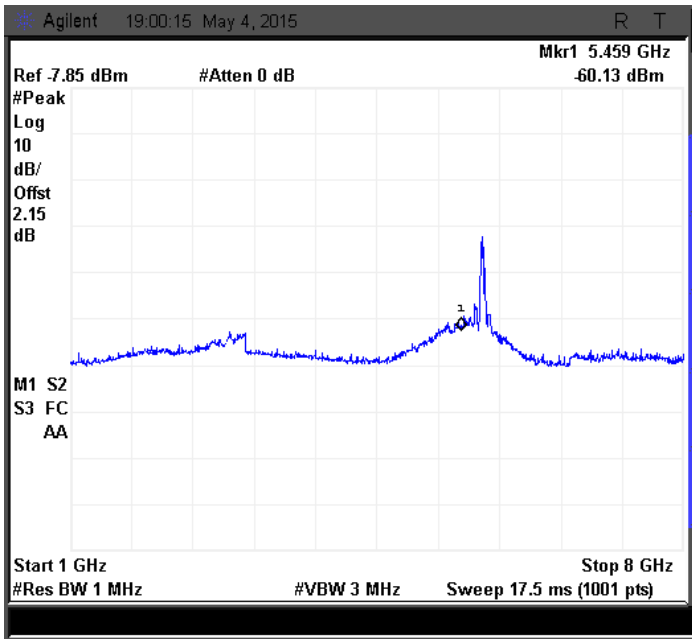

Figure 258: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

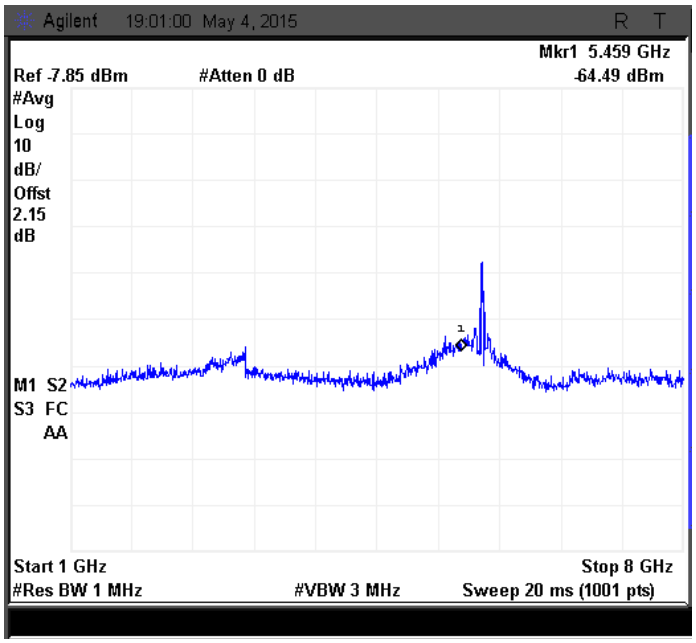

Figure 259: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

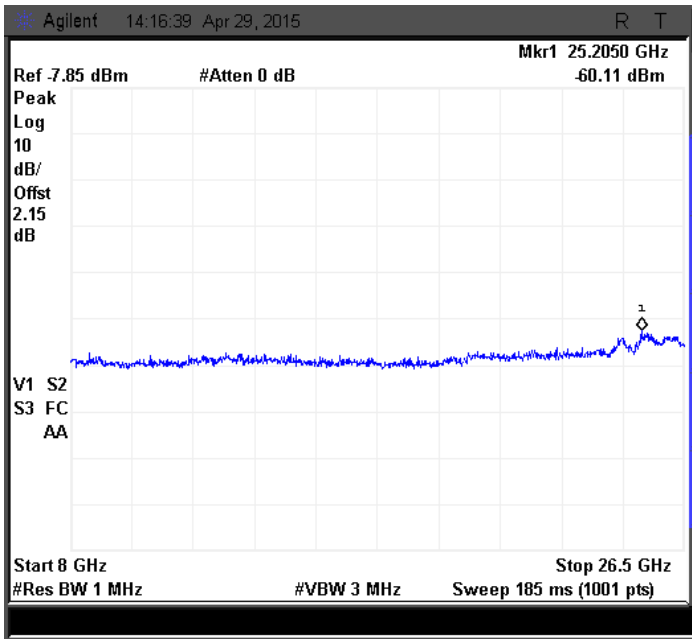

Figure 260: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

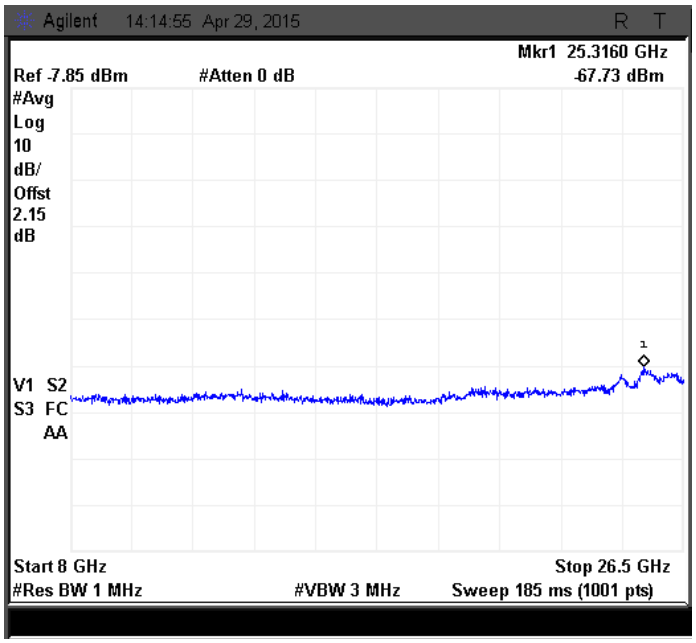

Figure 261: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

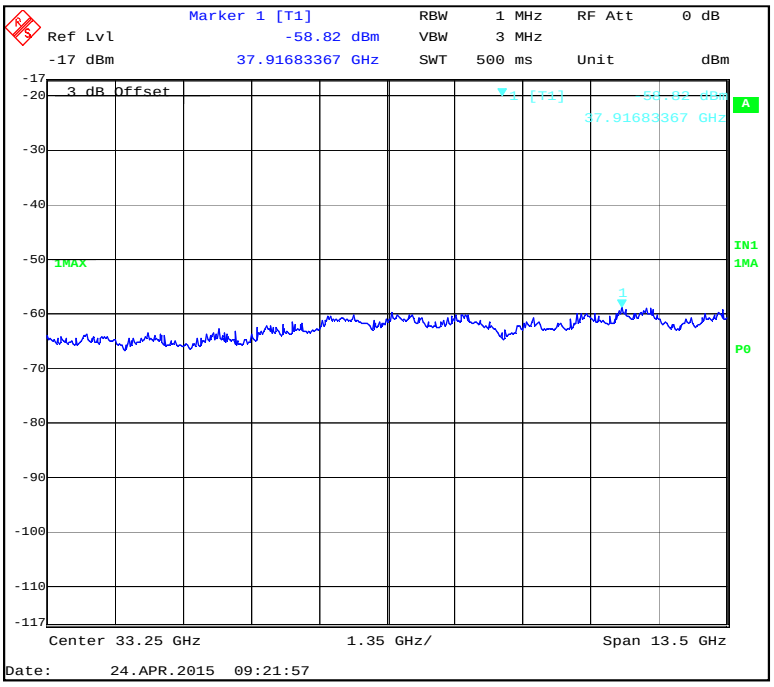

Figure 262: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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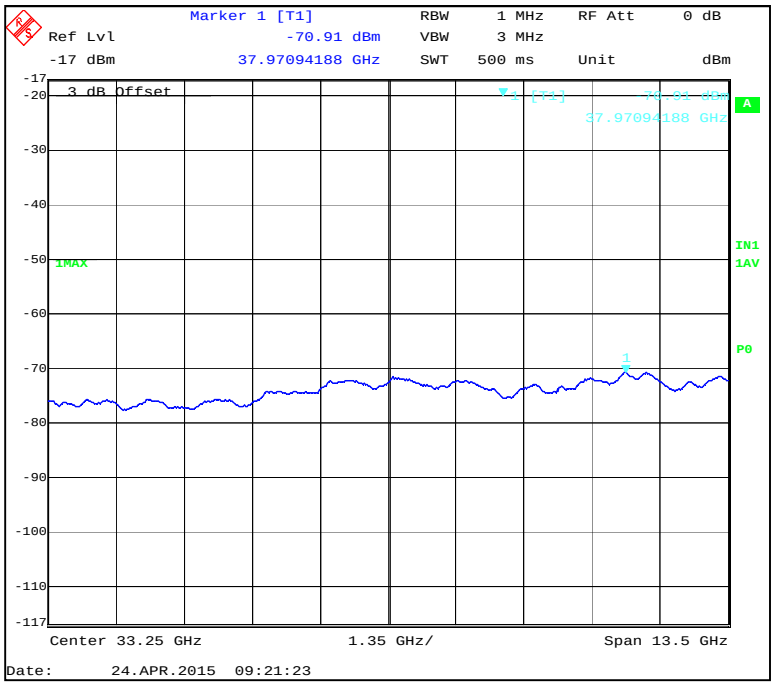

Figure 263: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

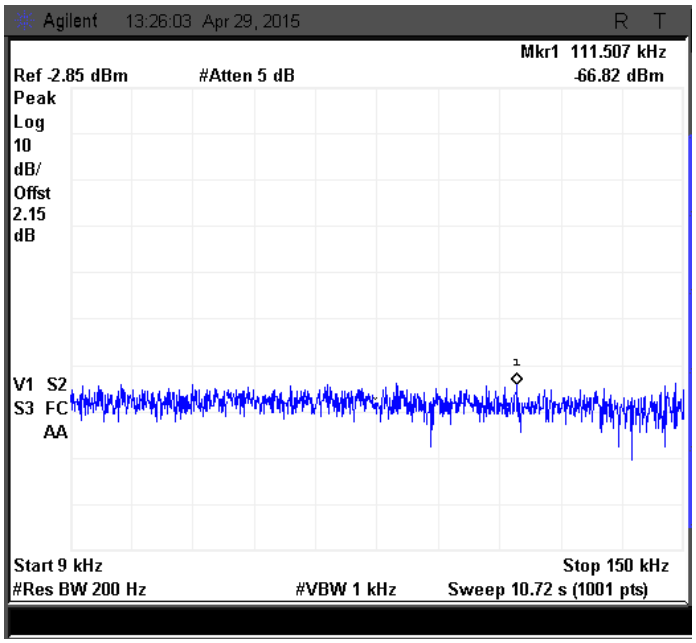

Figure 264: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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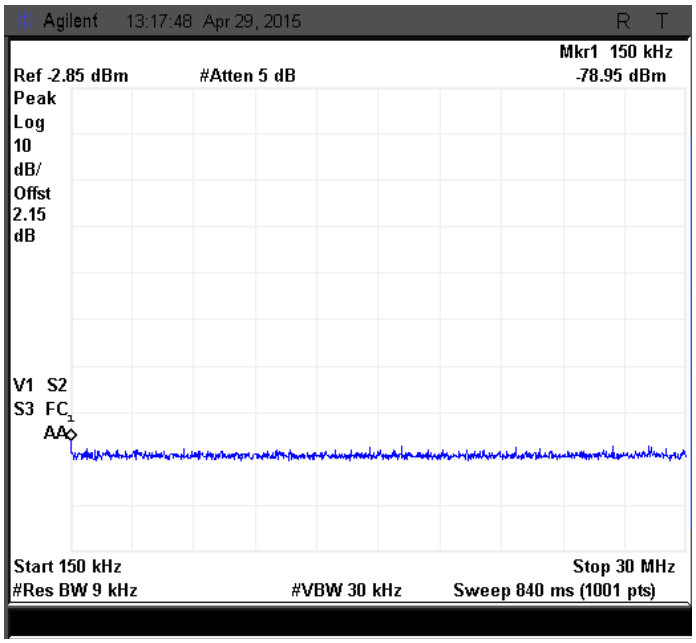

Figure 265: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

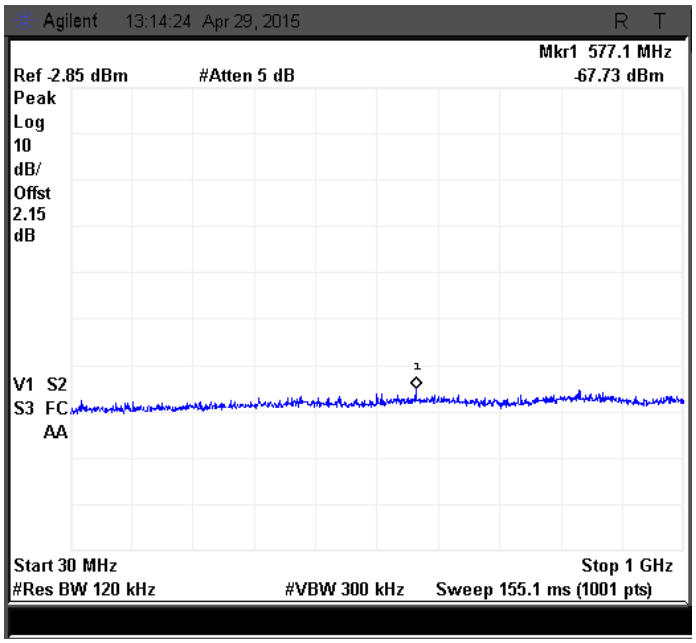

Figure 266: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

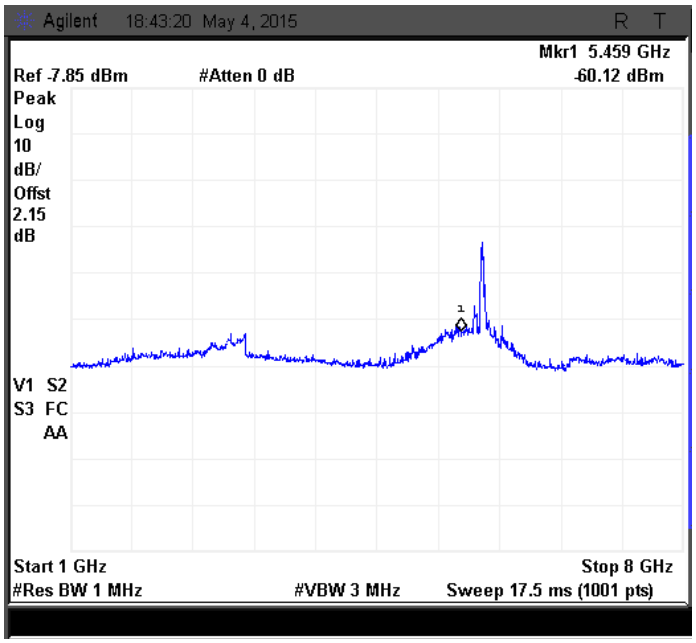

Figure 267: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

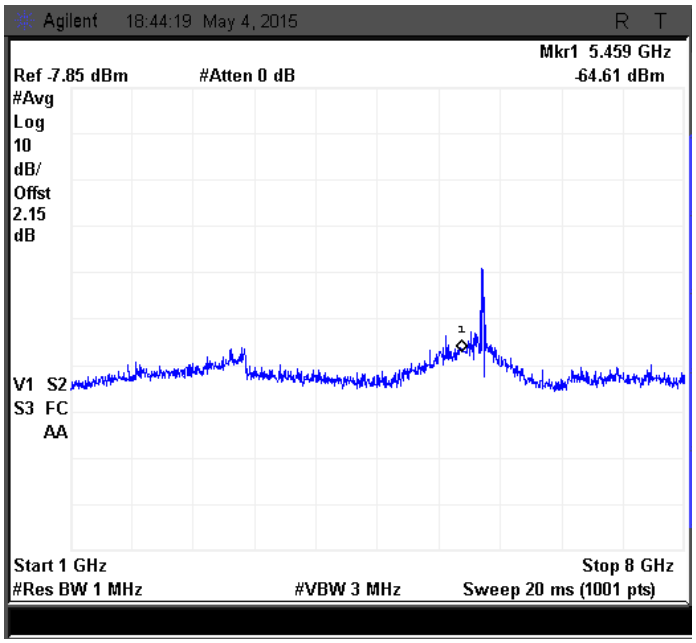

Figure 268: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

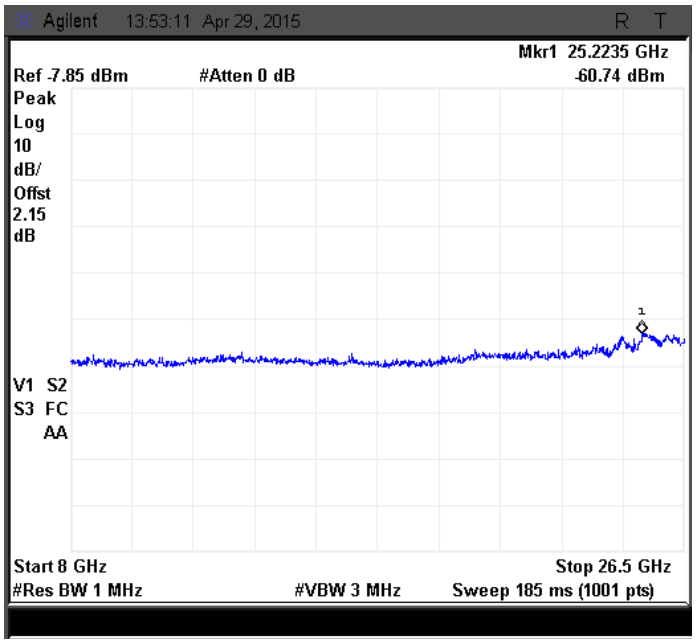

Figure 269: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

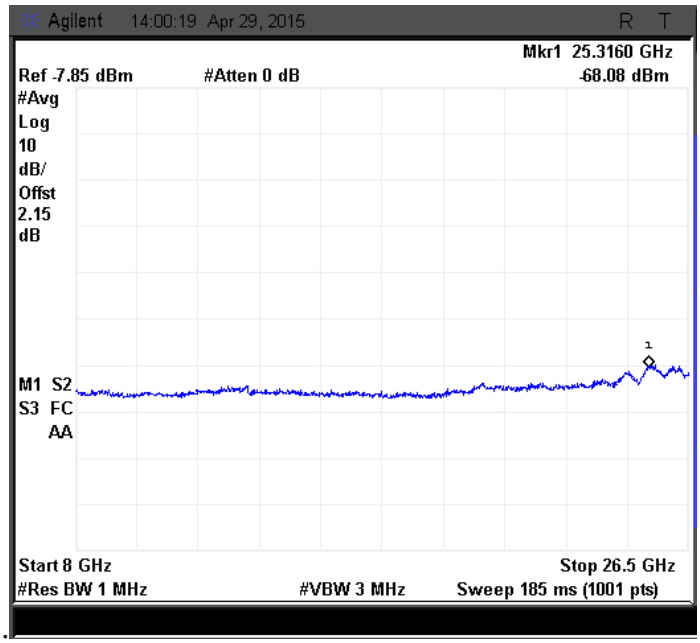

Figure 270: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

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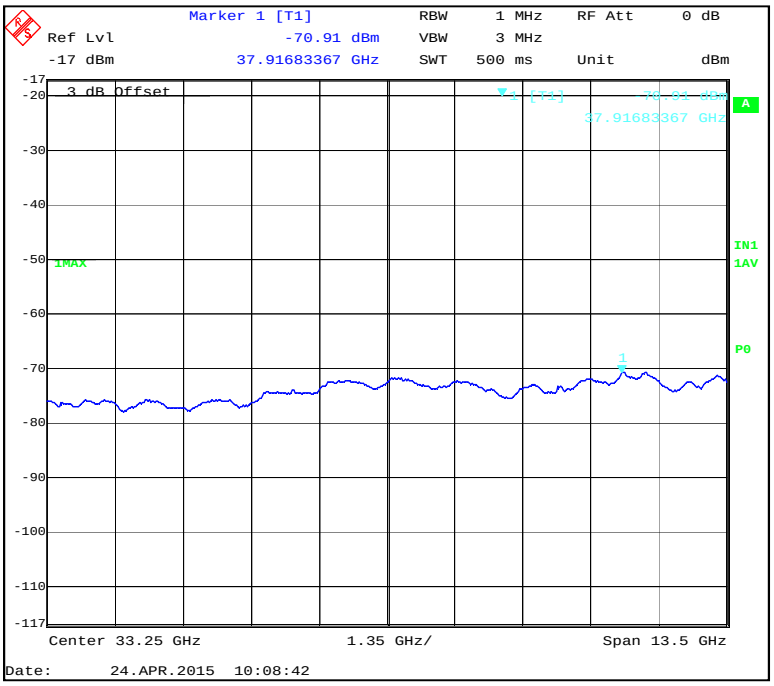

Figure 271: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

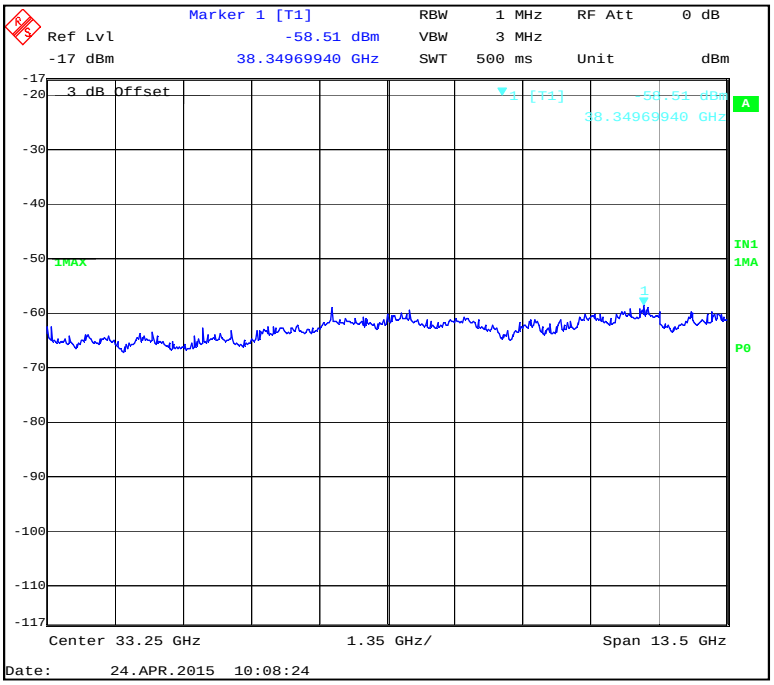

Figure 272: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.5.4 10MHz Modulation BW - Low channel_5485 MHz

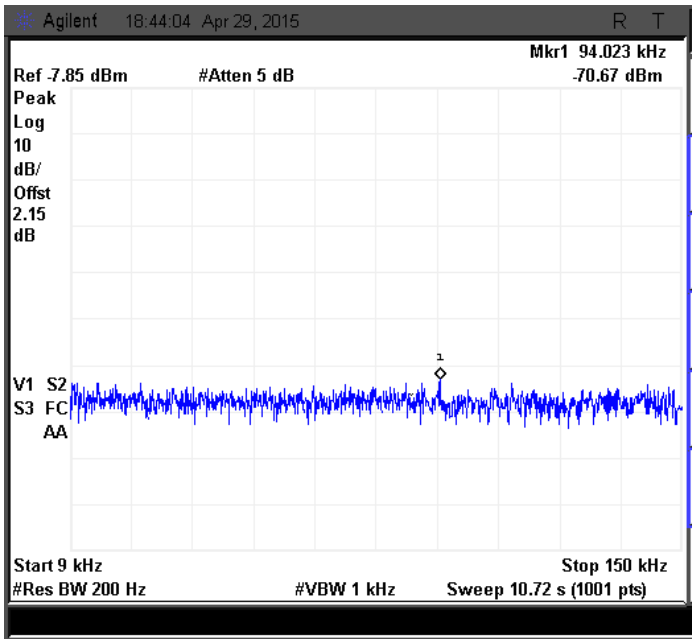

Figure 273: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

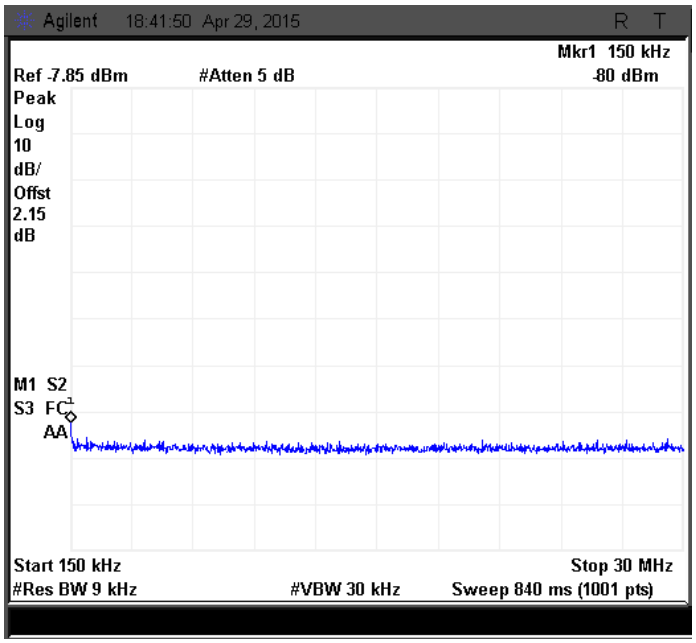

Figure 274: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

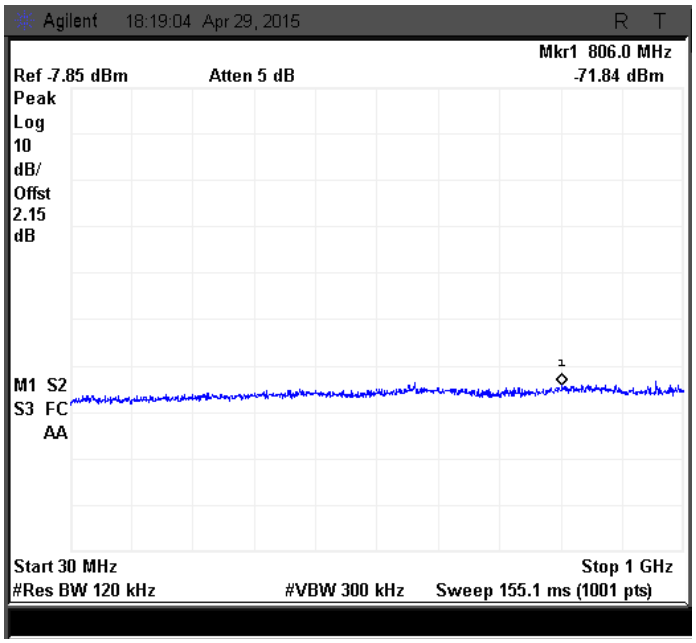

Figure 275: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

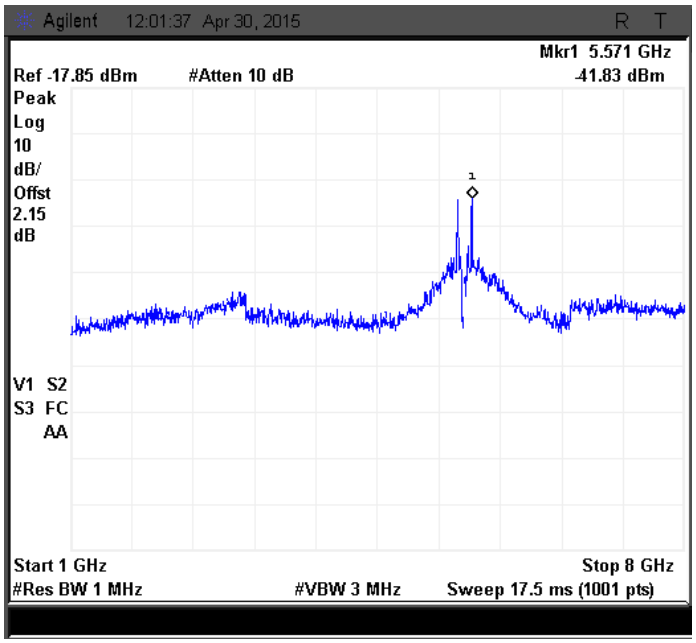

Figure 276: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

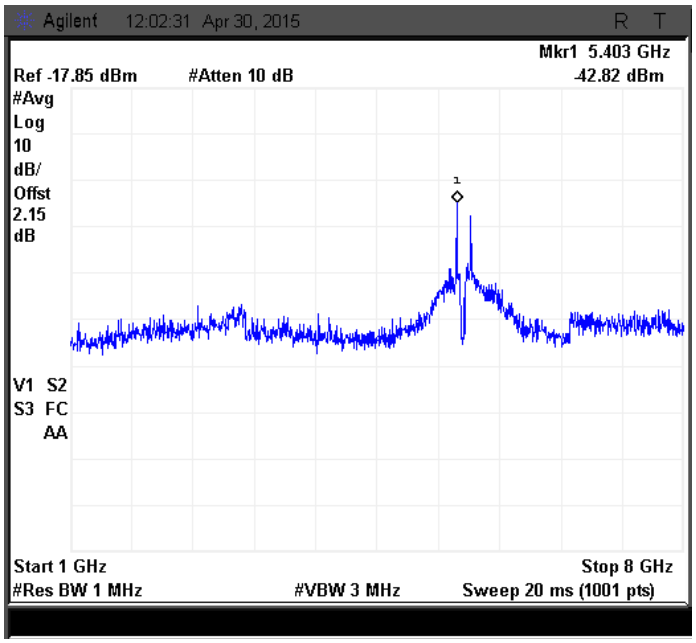

Figure 277: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

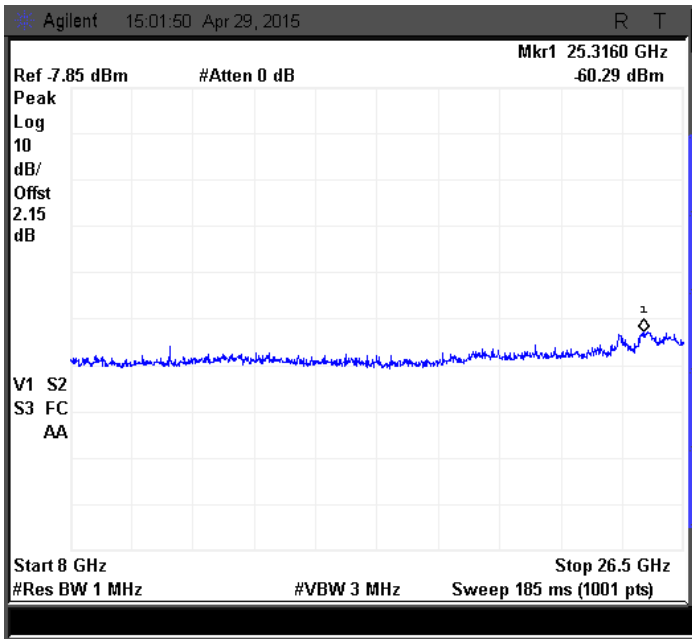

Figure 278: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

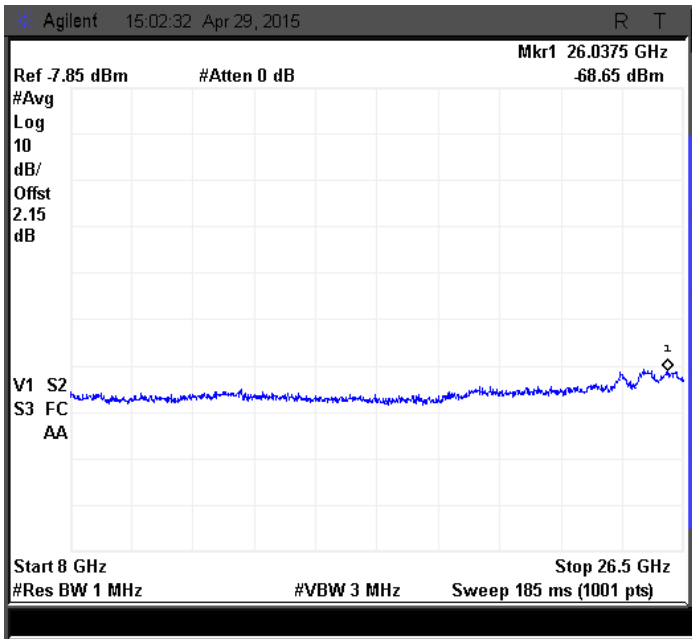

Figure 279: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

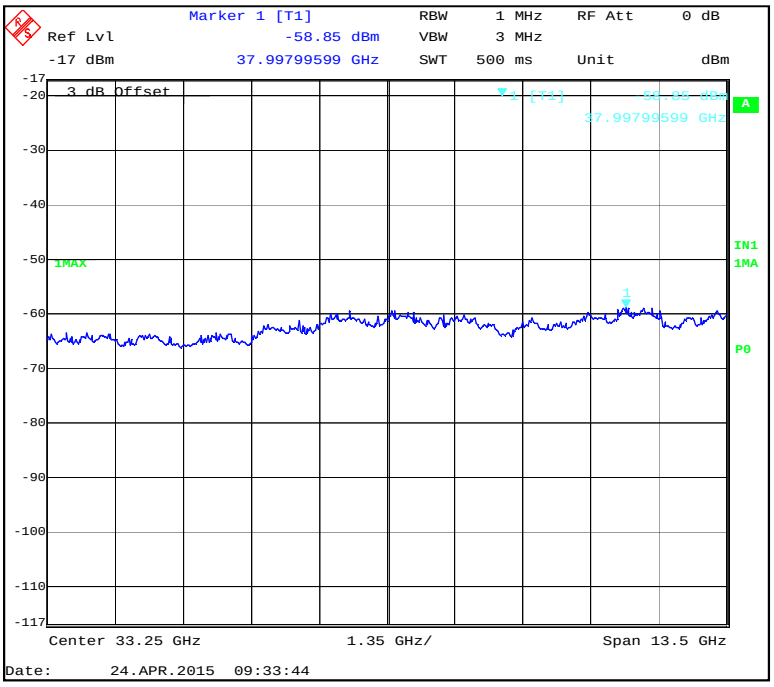

Figure 280: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

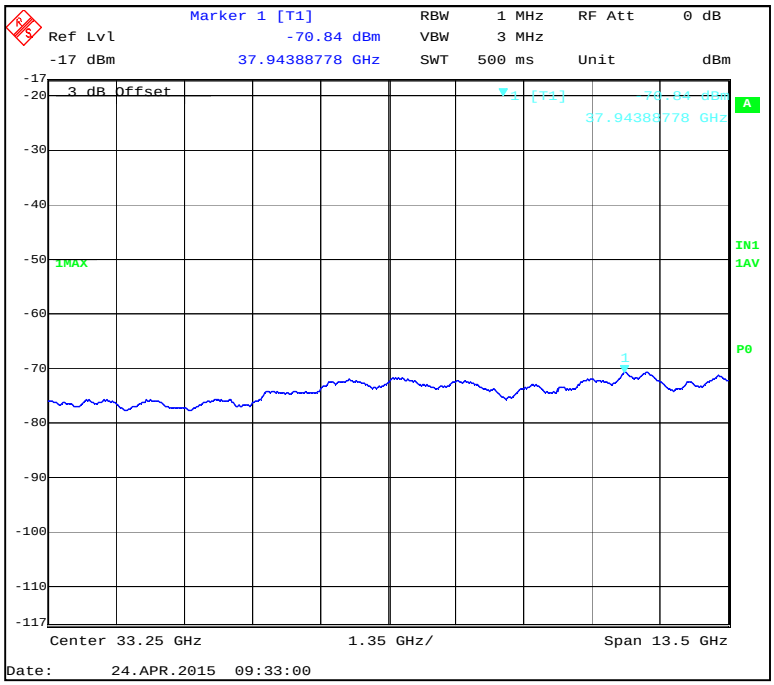

Figure 281: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

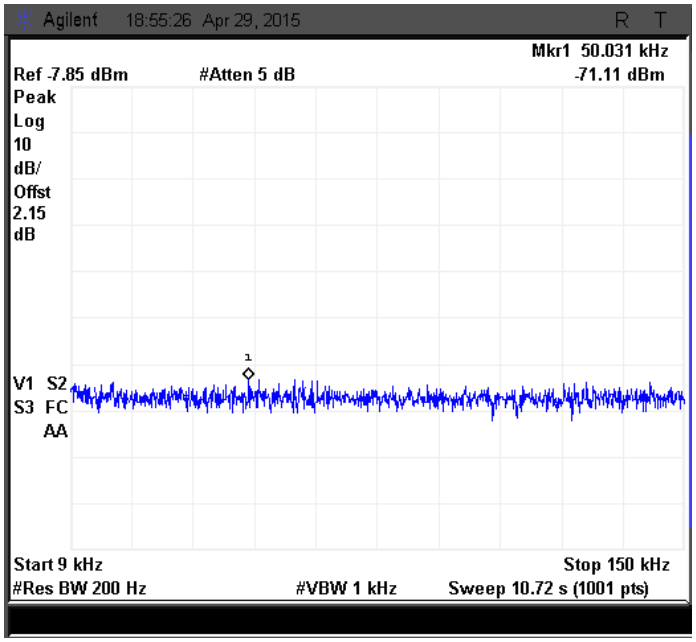

Figure 282: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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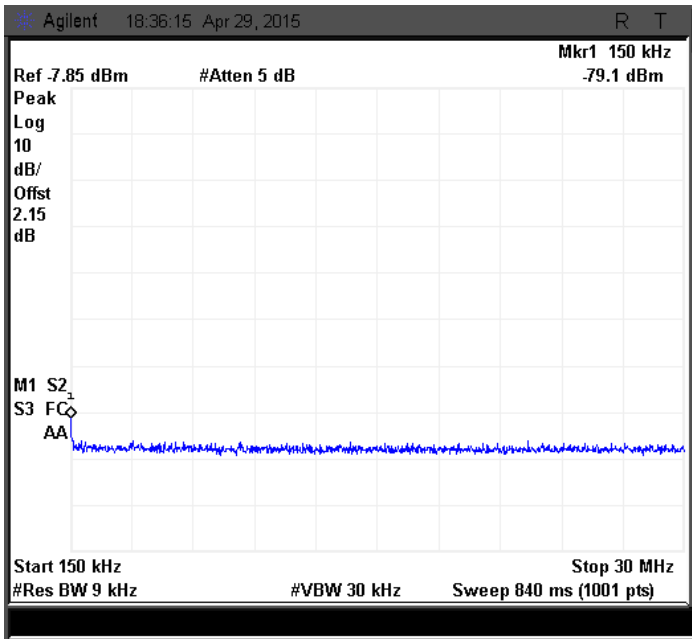

Figure 283: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

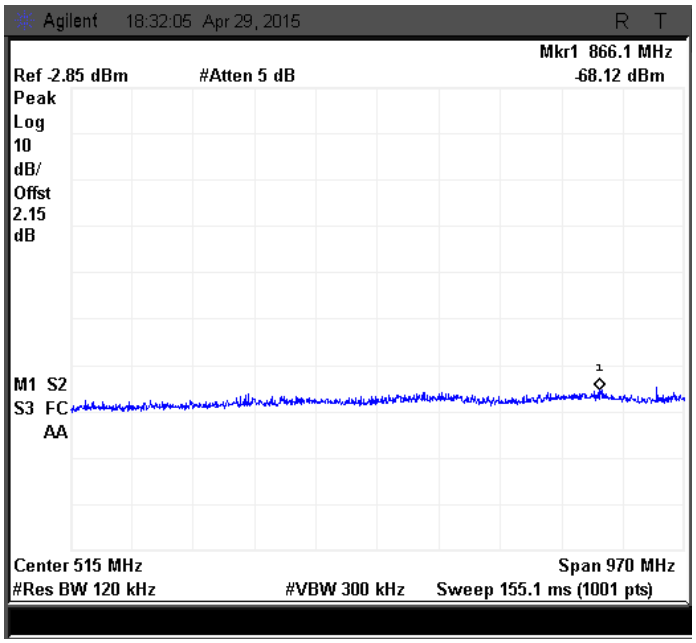

Figure 284: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

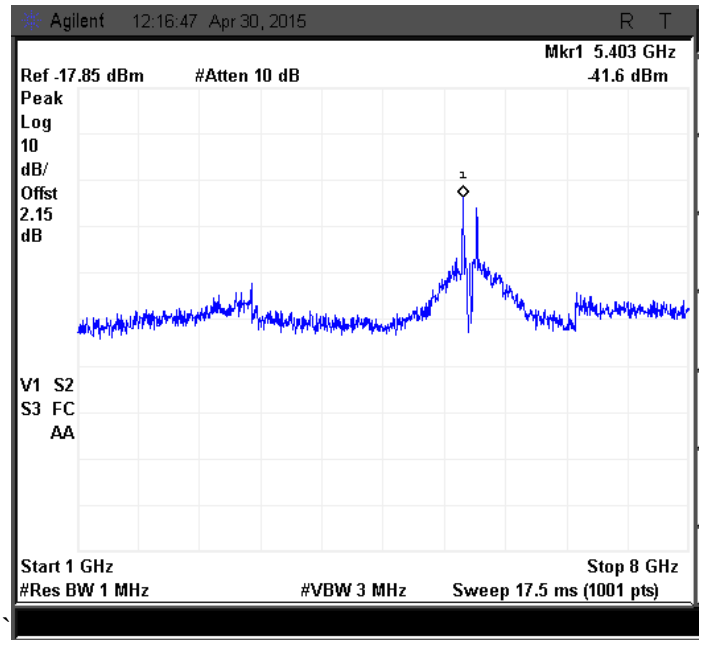

Figure 285: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

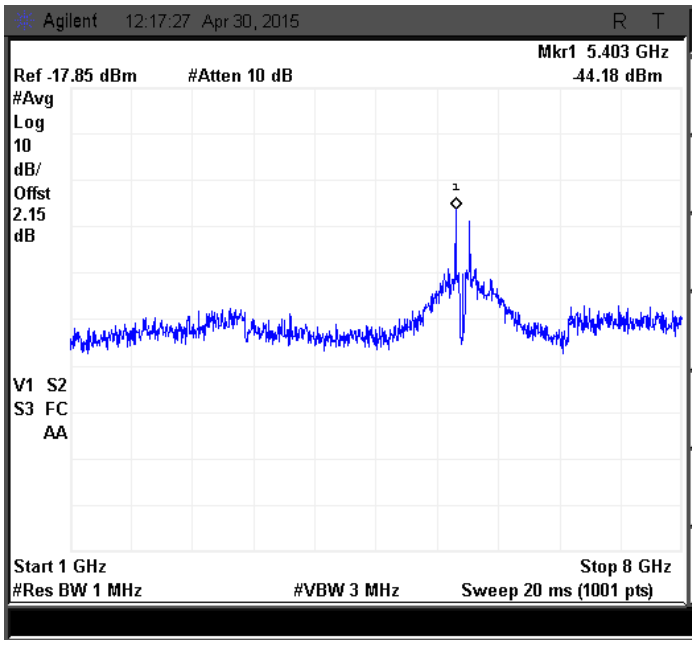

Figure 286: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

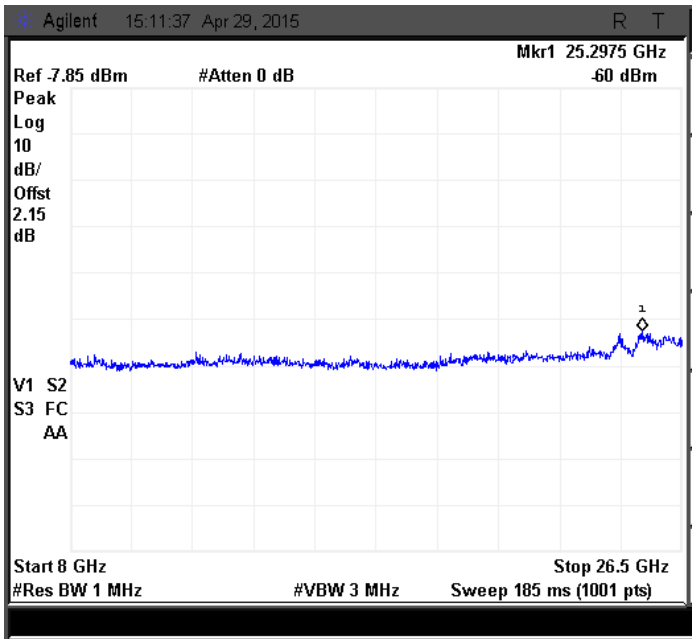

Figure 287: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

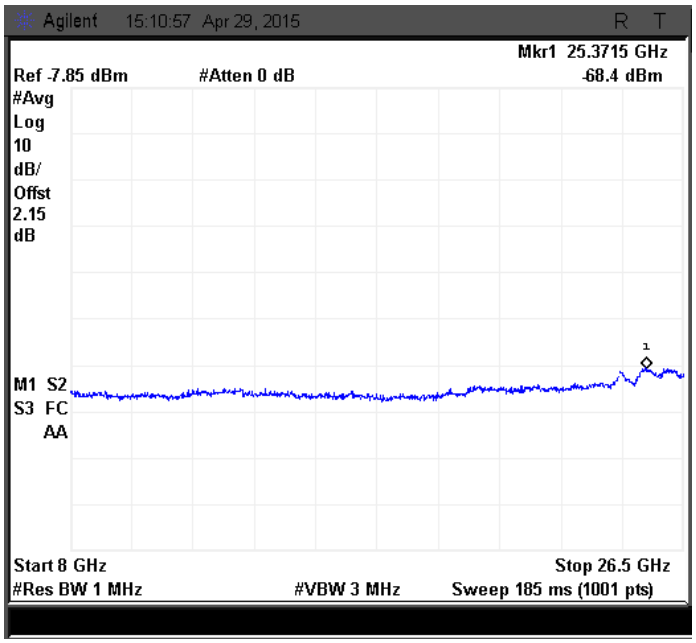

Figure 288: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

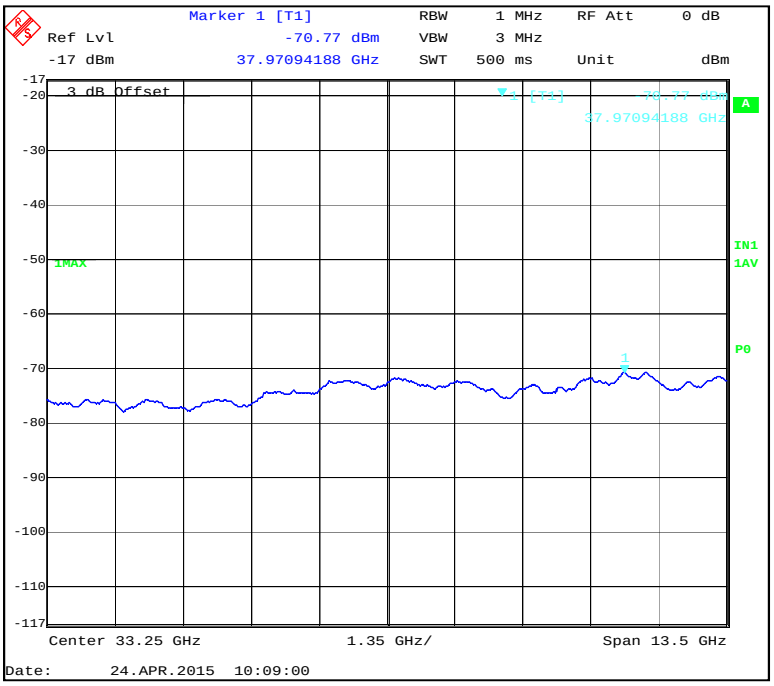

Figure 289: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

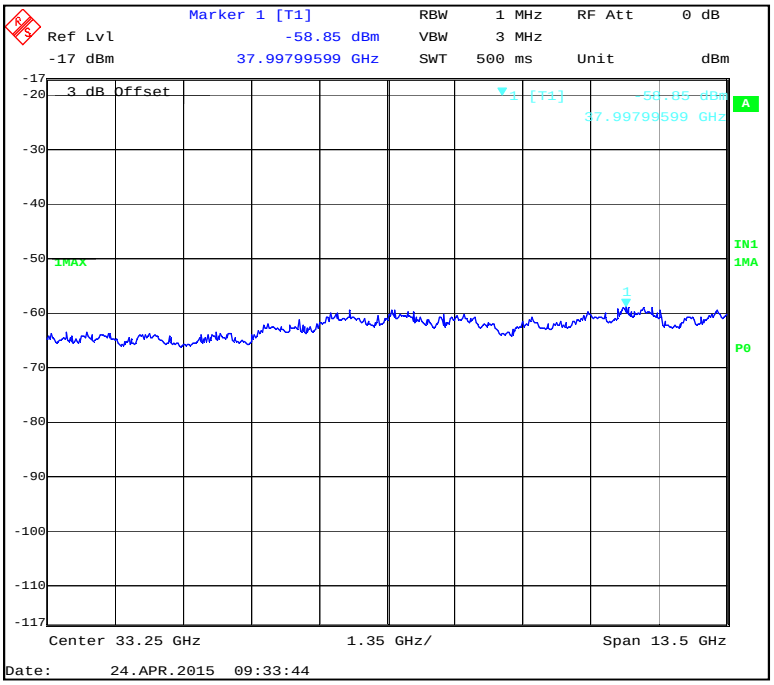

Figure 290: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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5.3.7.5.5 10MHz MODULATION BW - MID CHANNEL_5550 MHz

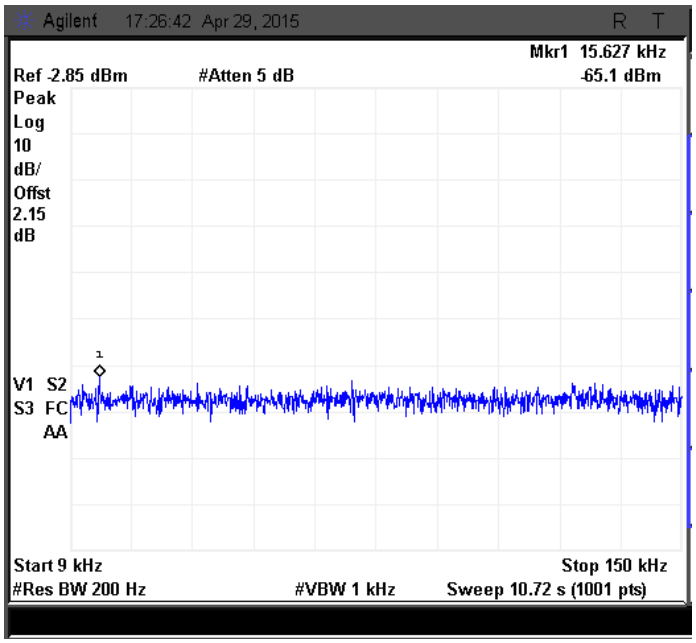

Figure 291: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

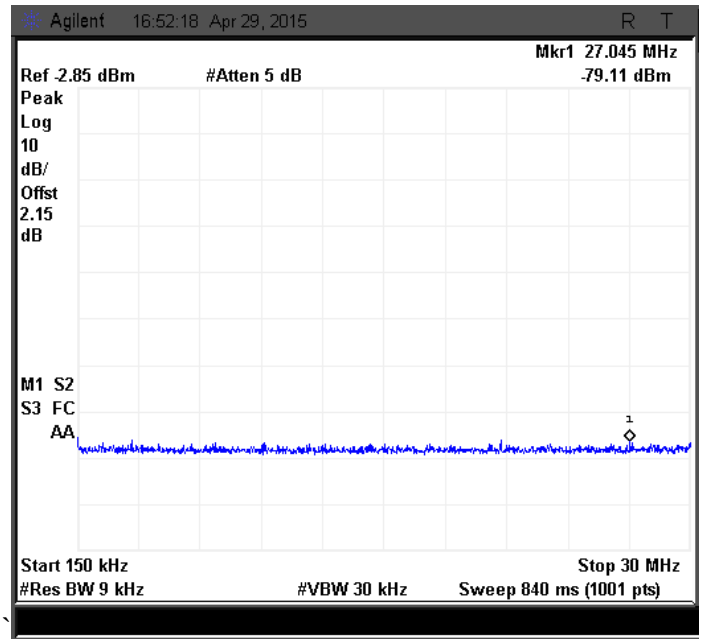

Figure 292: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

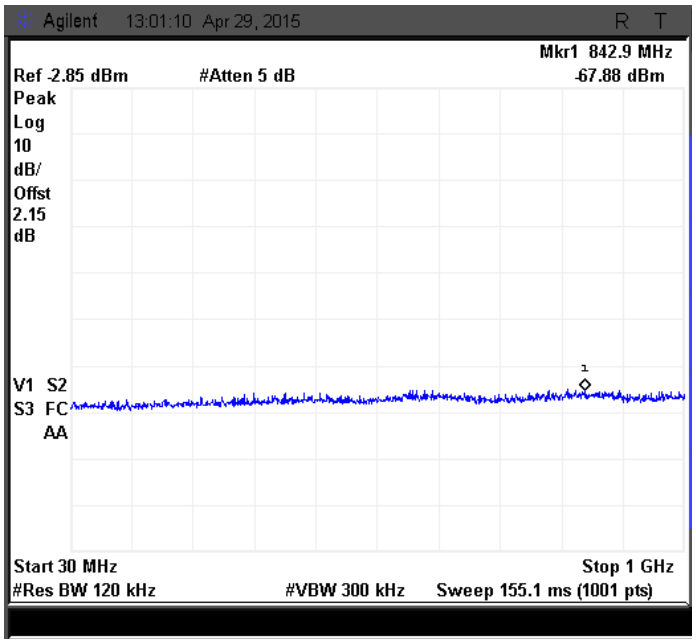

Figure 293: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

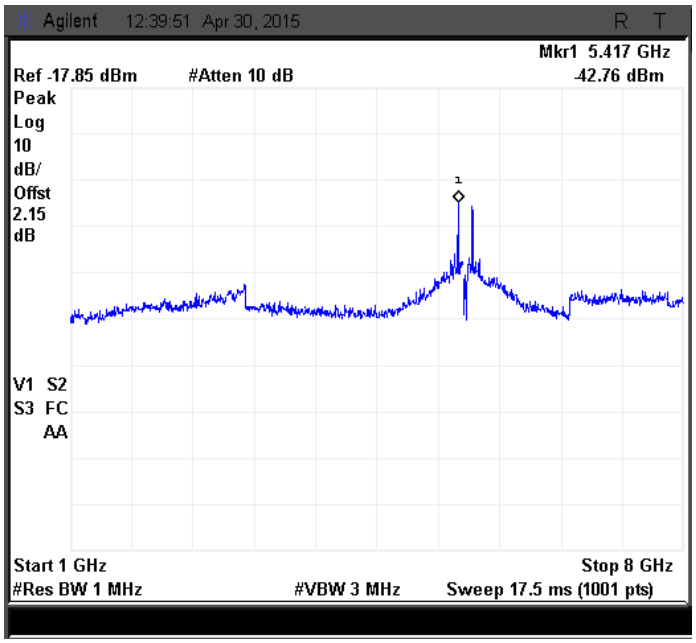

Figure 294: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

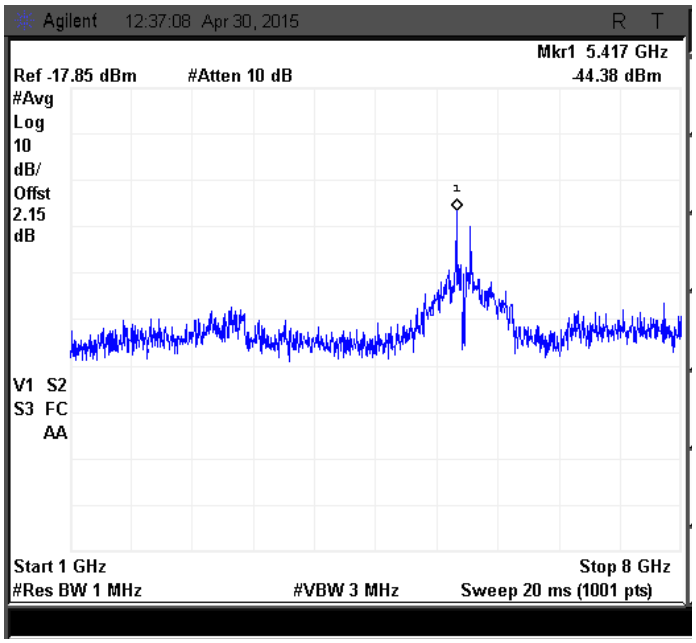

Figure 295: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

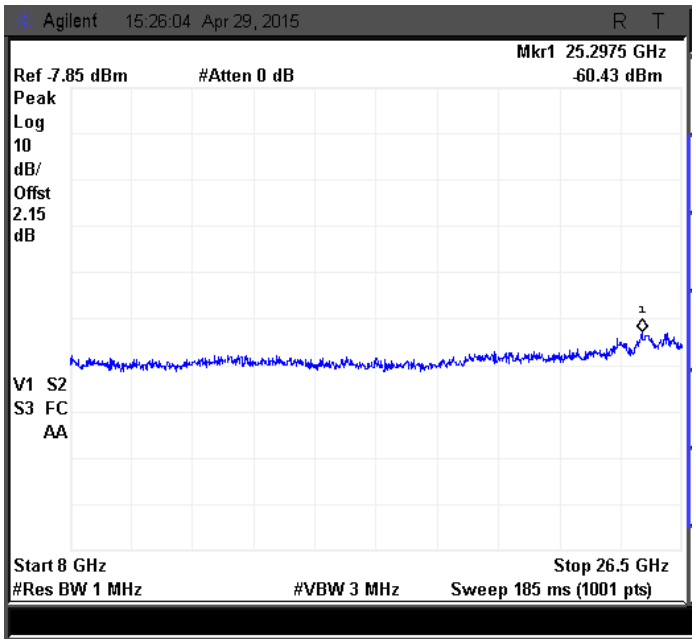

Figure 296: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

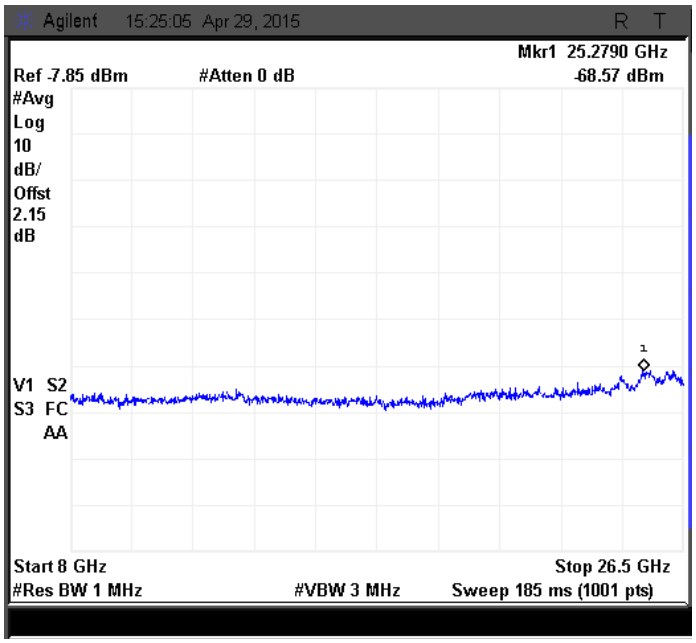

Figure 297: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

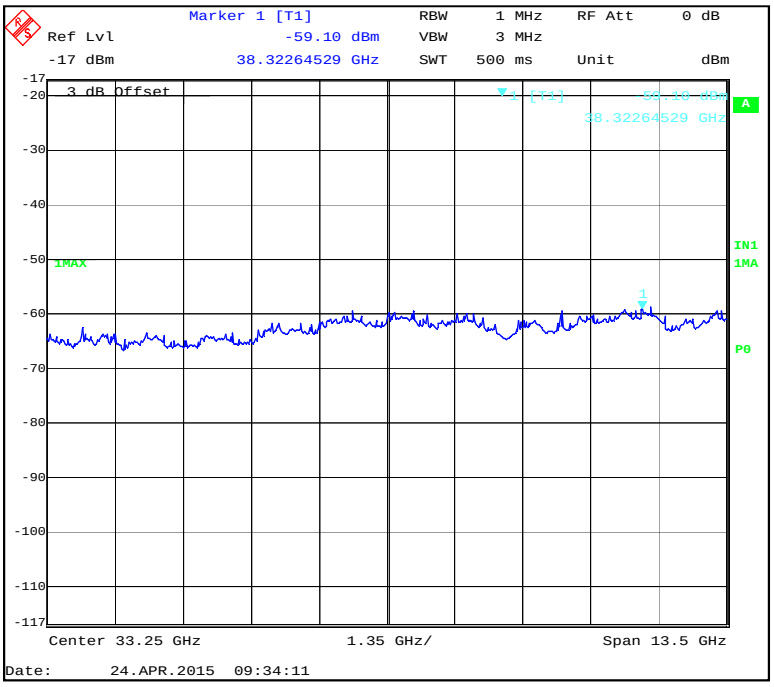

Figure 298: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

This report should always be reproduced in full. Any extracts of this report is invalid.

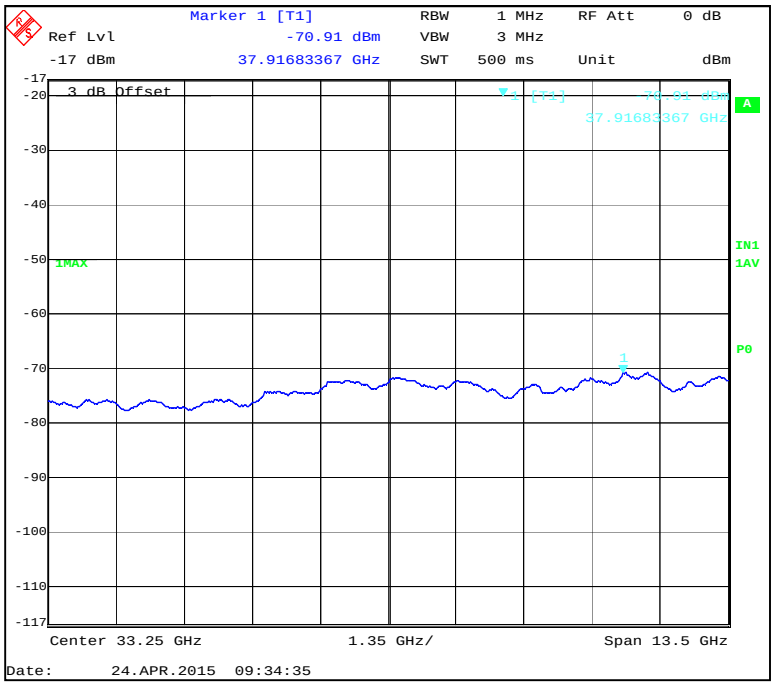

Figure 299: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

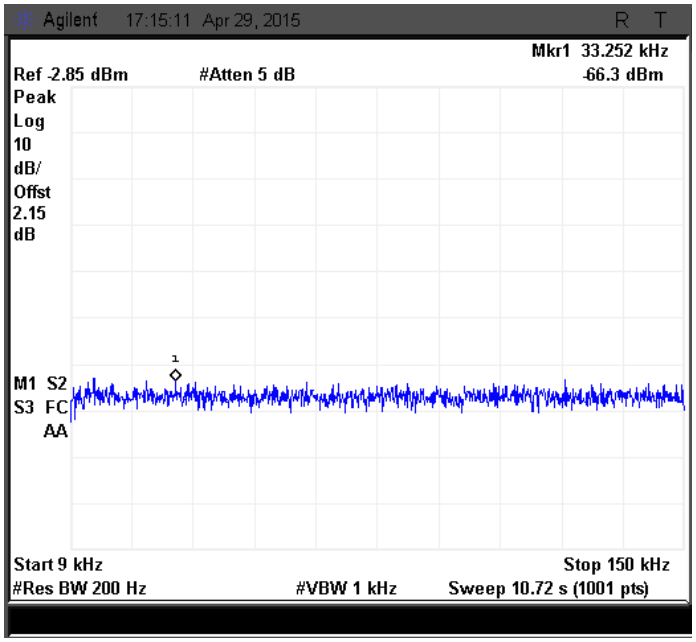

Figure 300: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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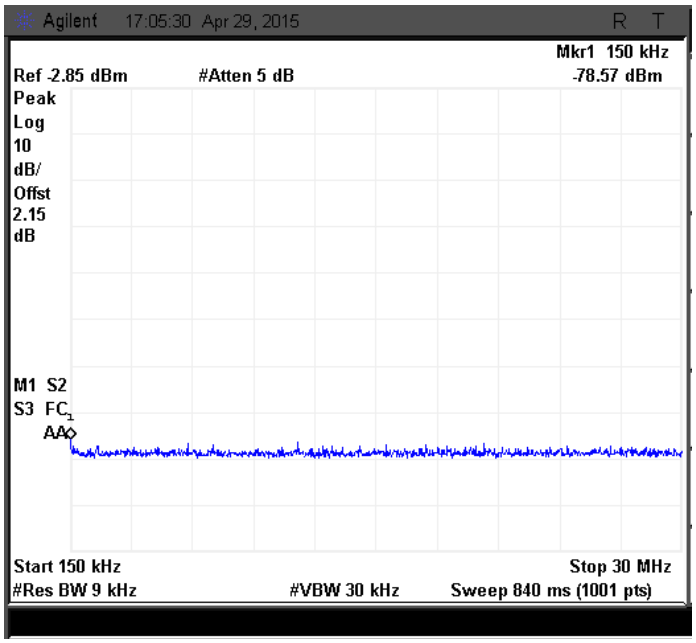

Figure 301: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

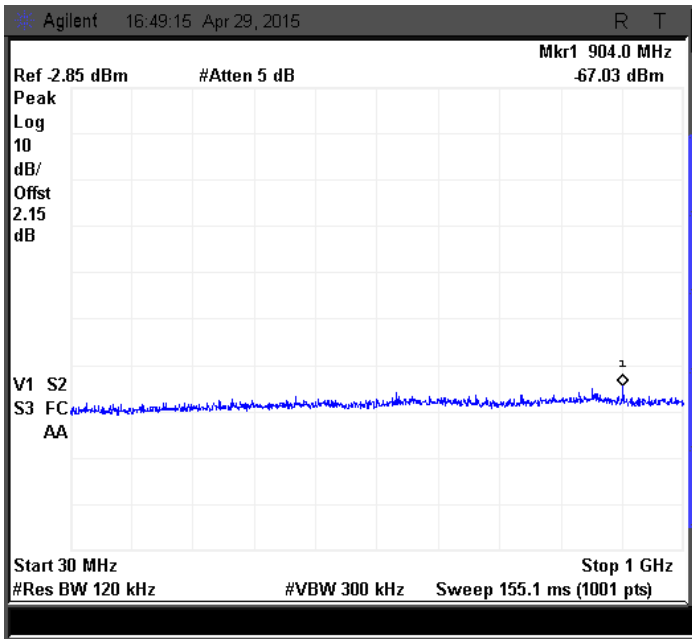

Figure 302: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

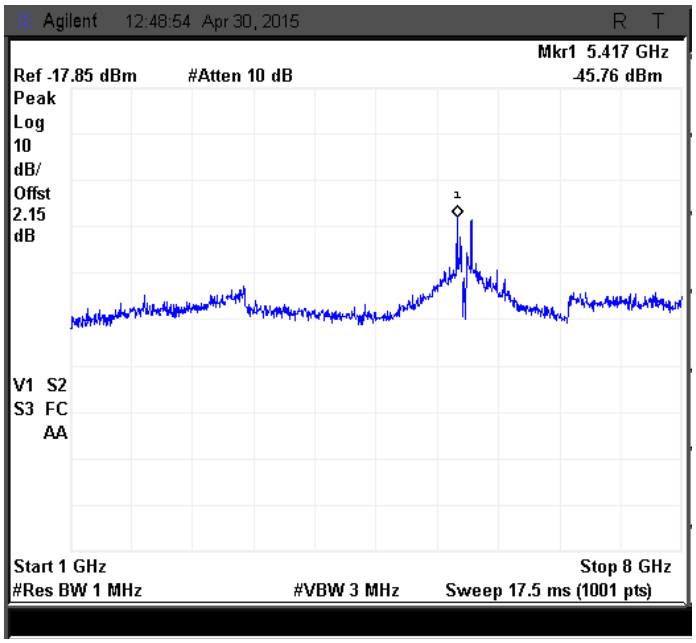

Figure 303: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

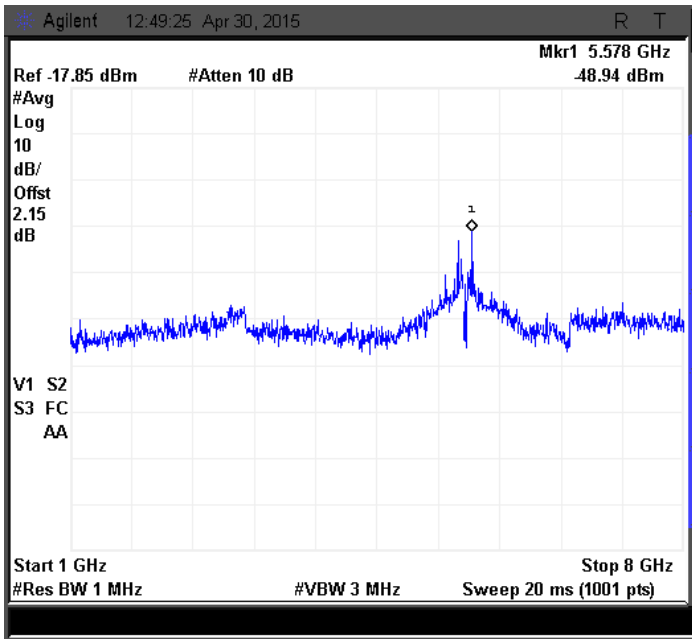

Figure 304: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

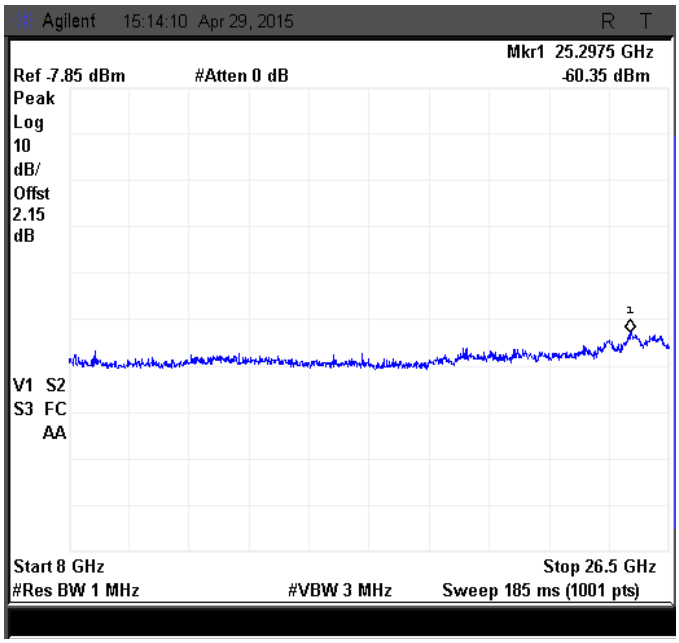

Figure 305: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

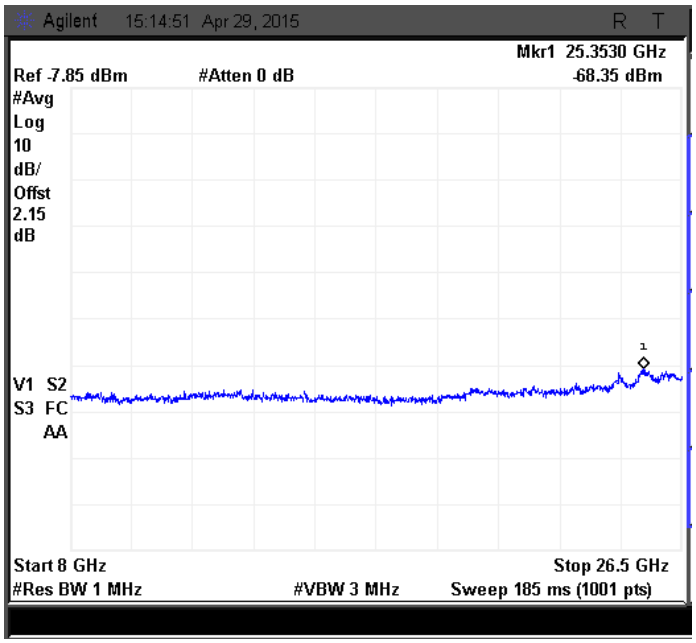

Figure 306: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

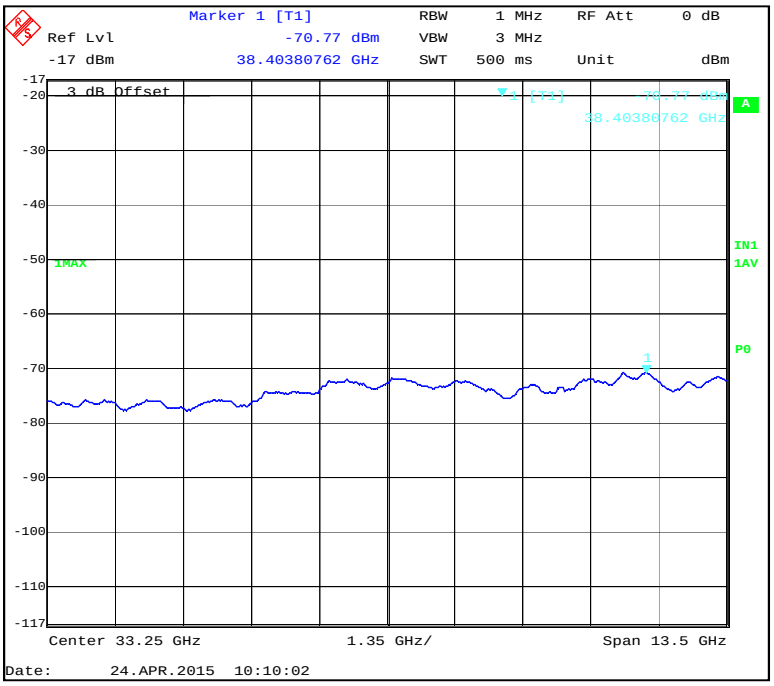

Figure 307: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

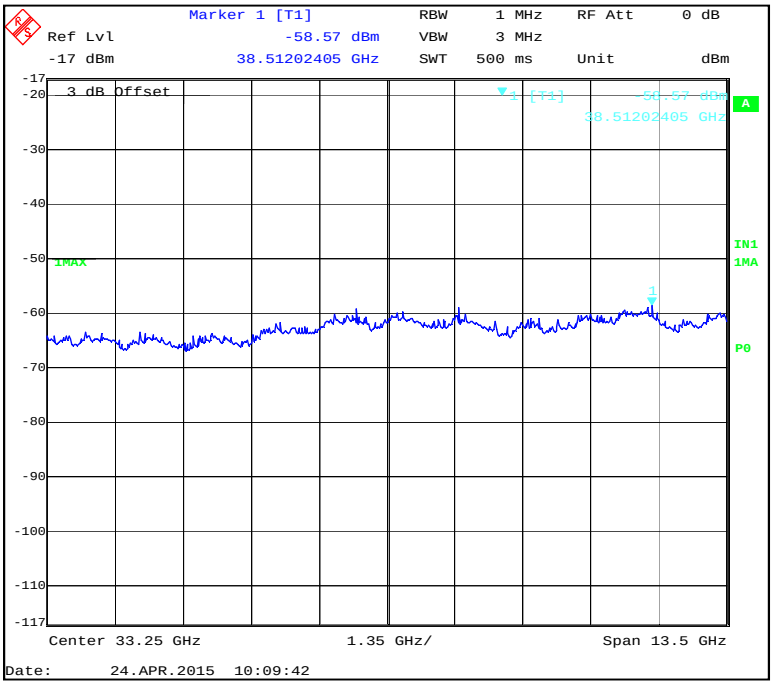

Figure 308: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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5.3.7.5.6 10MHz MODULATION BW - HIGH CHANNEL_5710 MHz

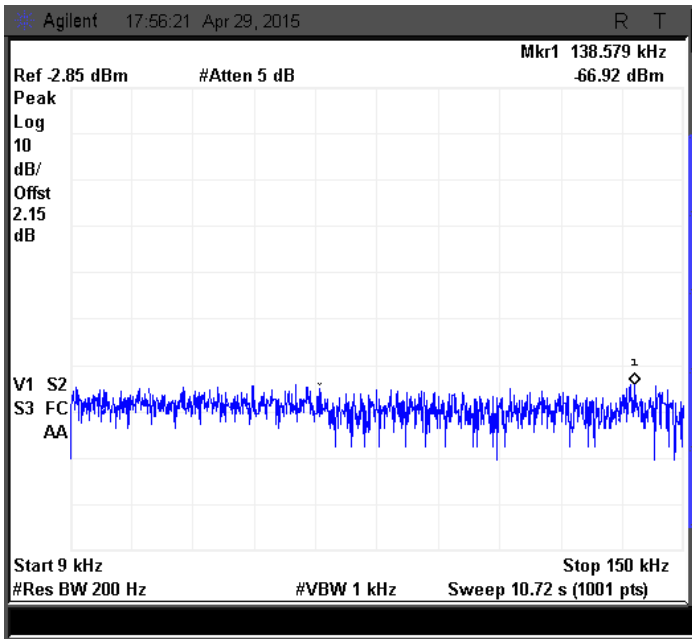

Figure 309: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

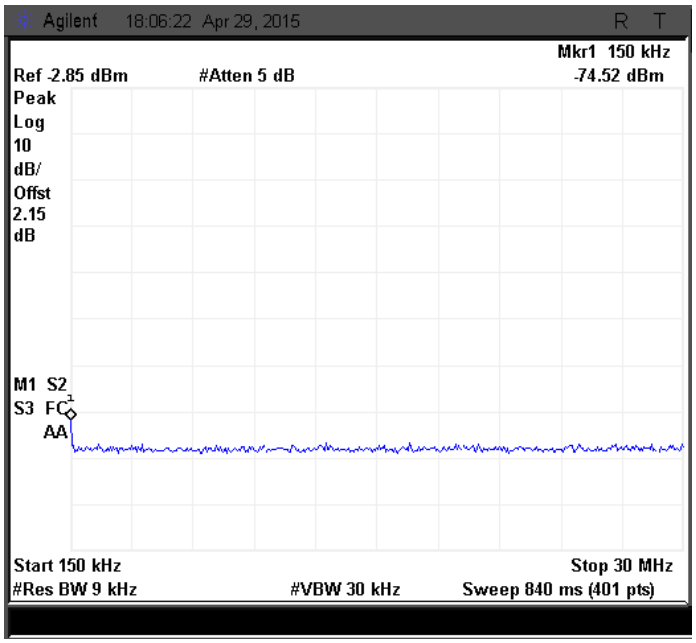

Figure 310: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

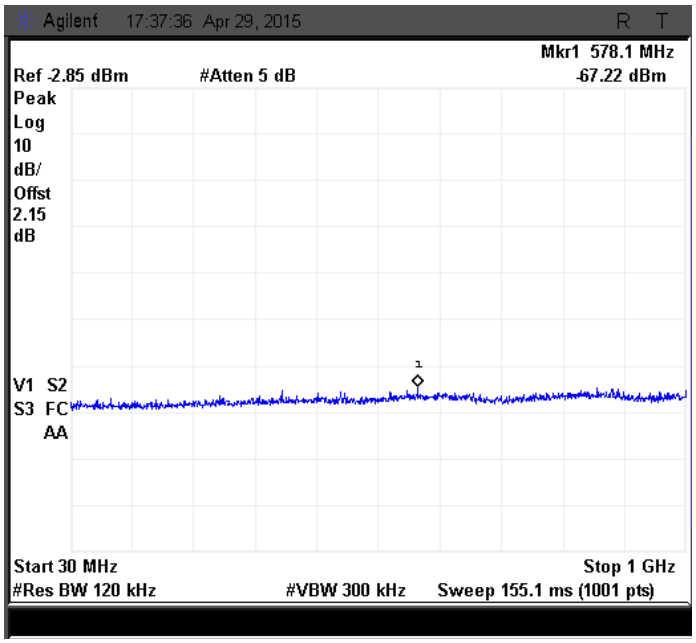

Figure 311: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

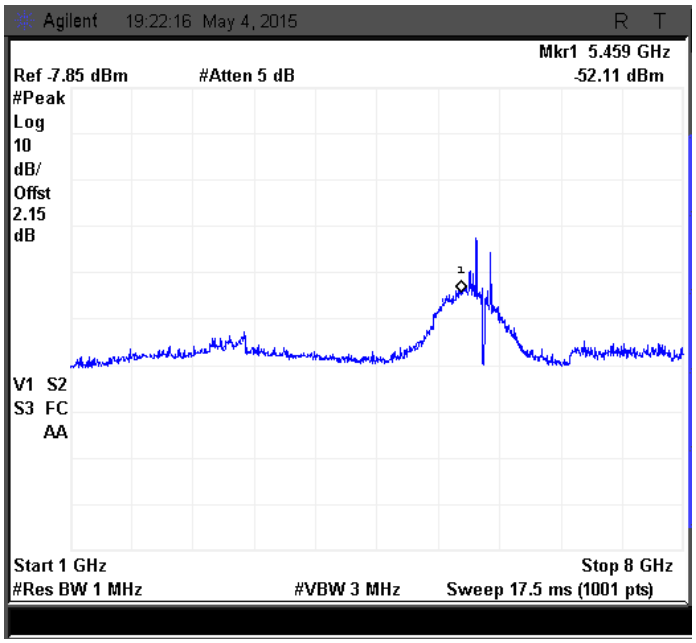

Figure 312: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

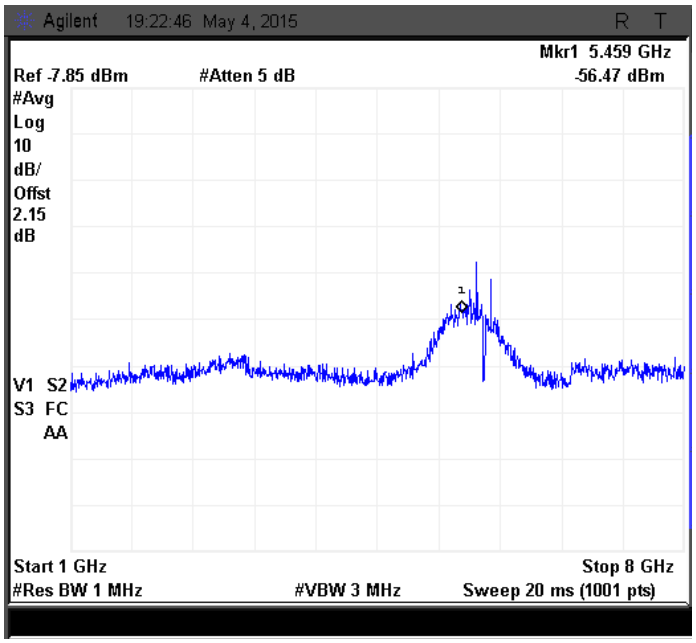

Figure 313: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

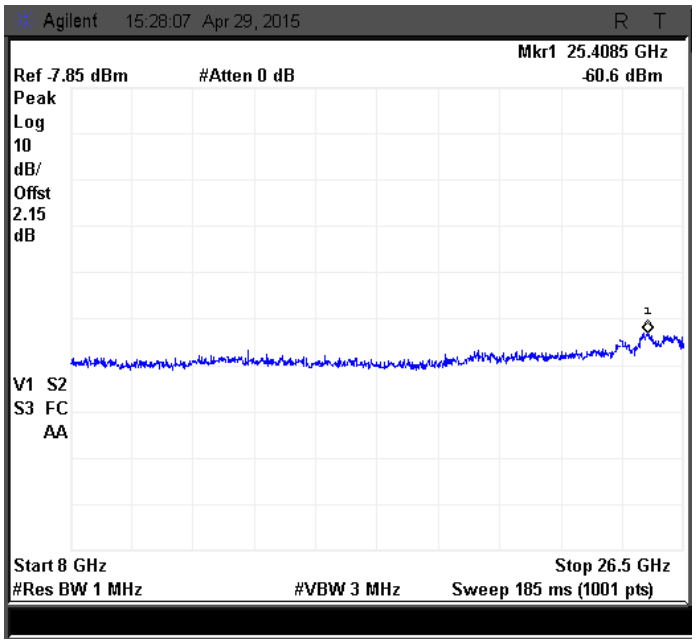

Figure 314: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

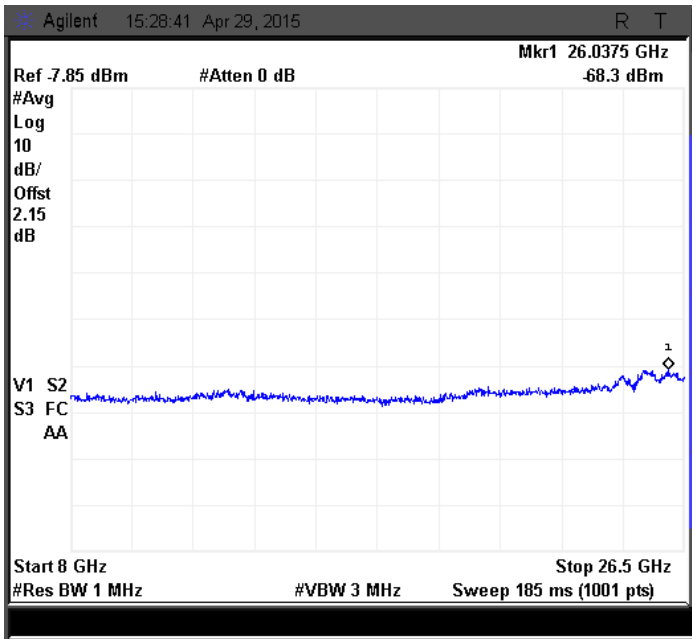

Figure 315: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

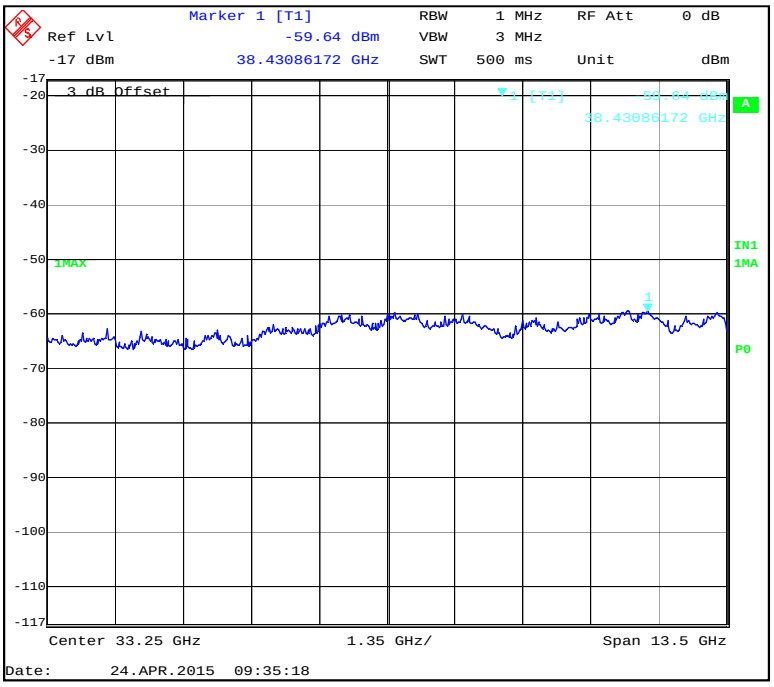

Figure 316: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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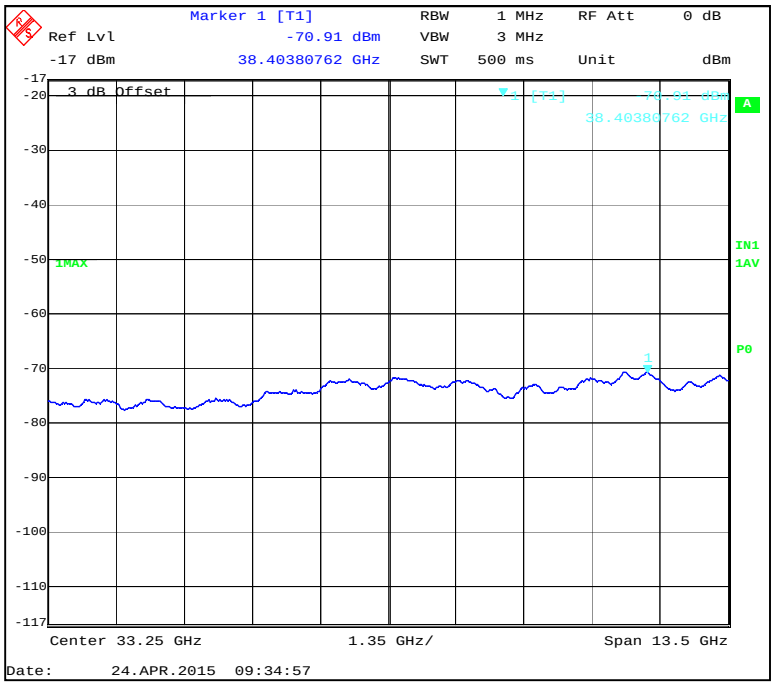

Figure 317: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

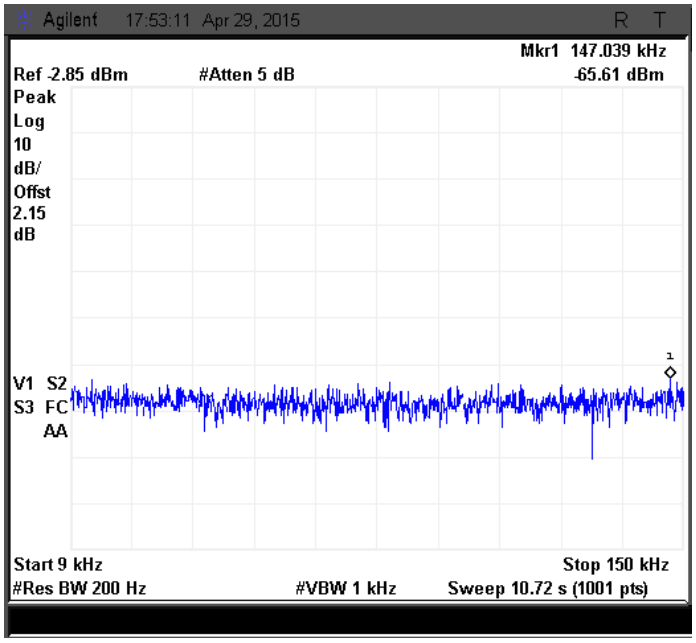

Figure 318: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

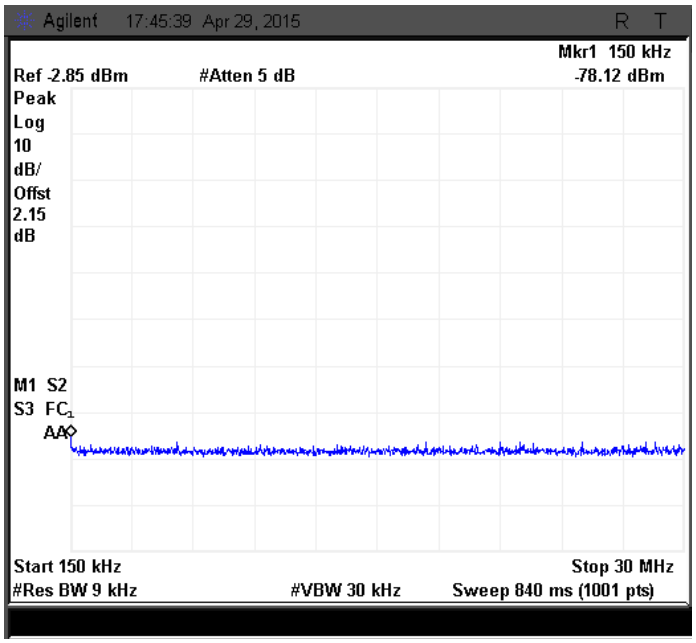

Figure 319: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

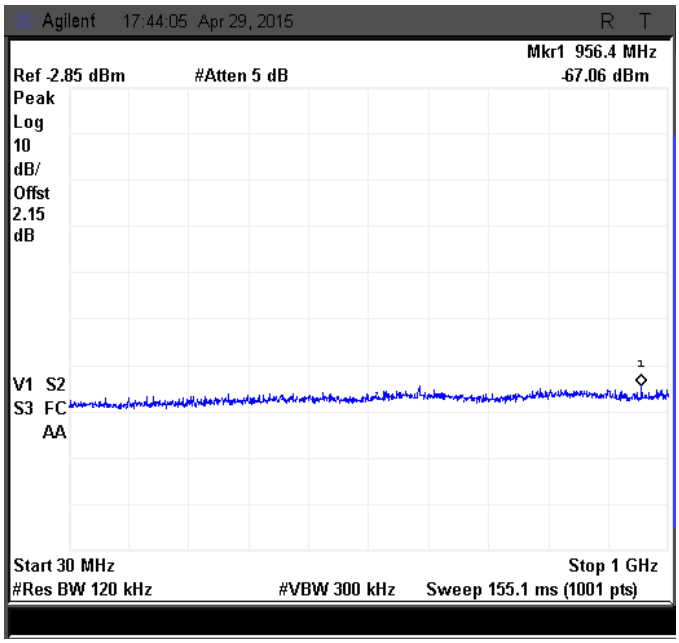

Figure 320: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

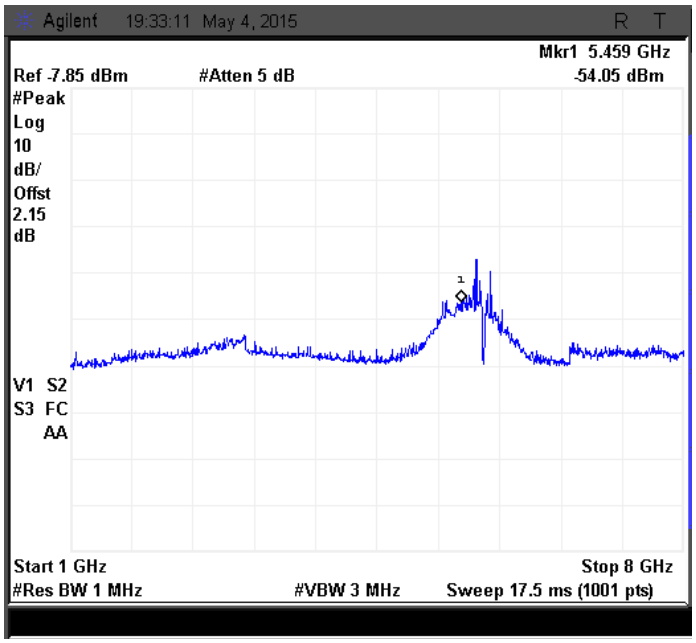

Figure 321: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

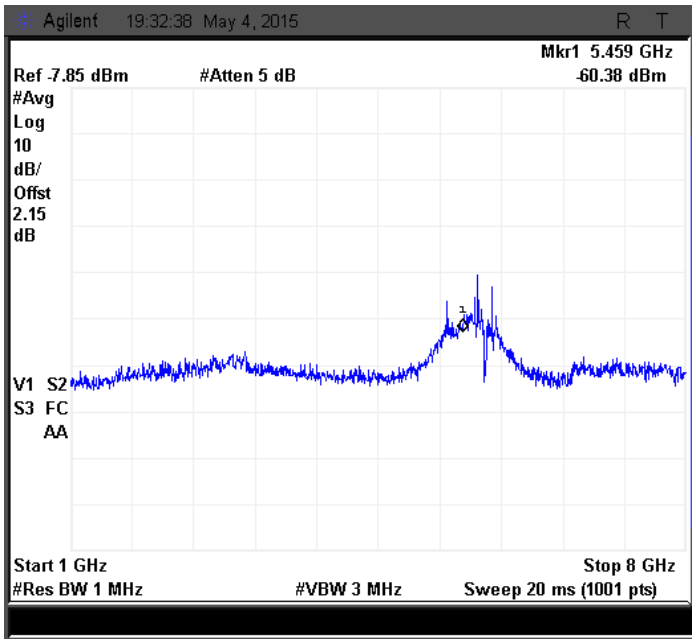

Figure 322: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

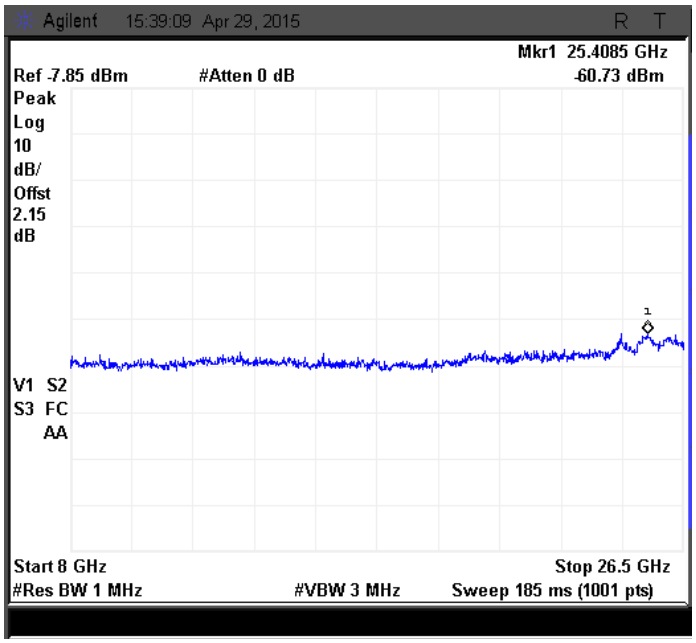

Figure 323: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

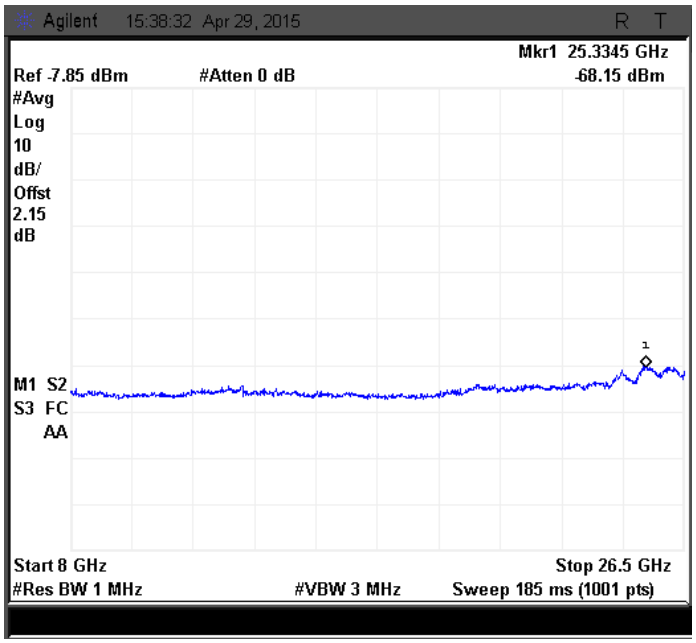

Figure 324: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

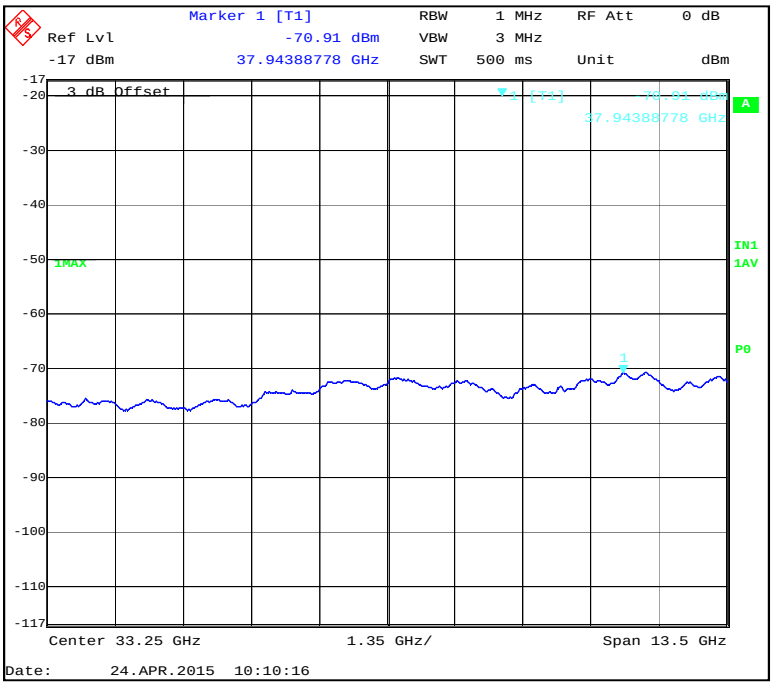

Figure 325: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

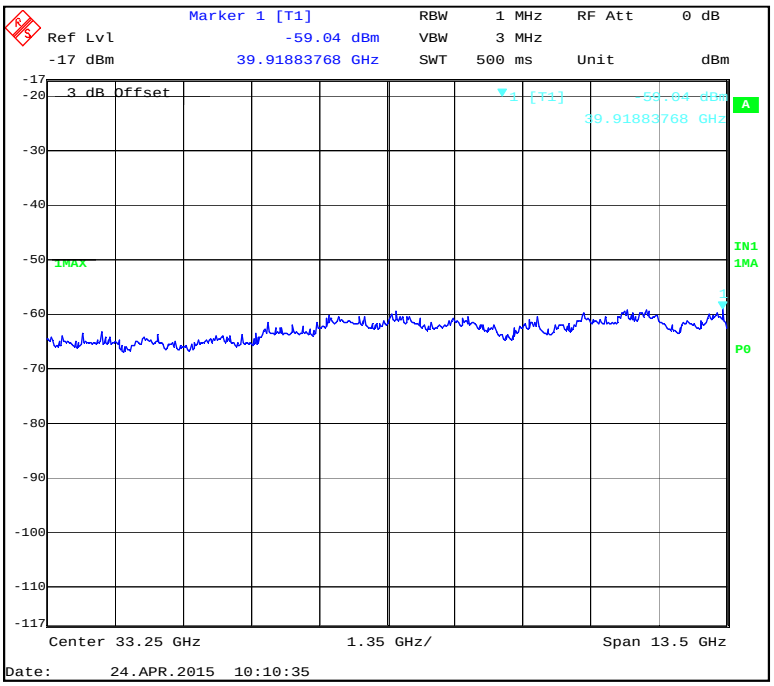

Figure 326: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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

5.3.7.6.1 40MHZ MODULATION BW - LOW CHANNEL_5495 MHZ

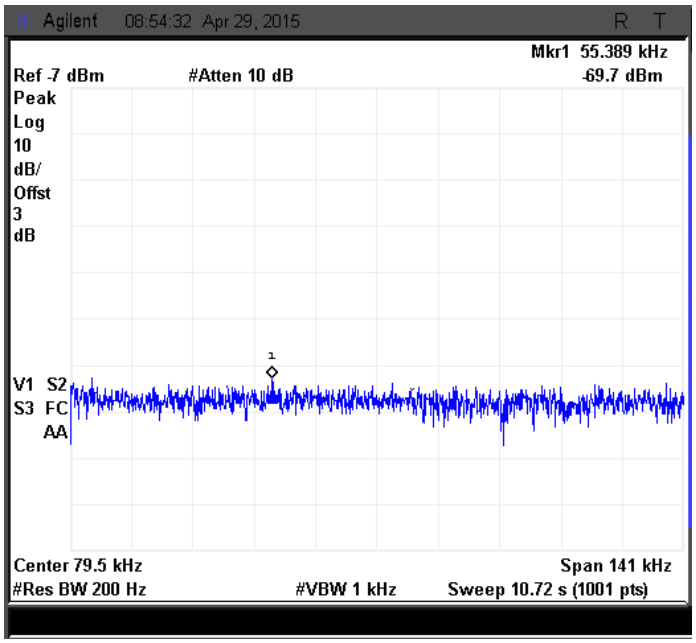

Figure 327: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

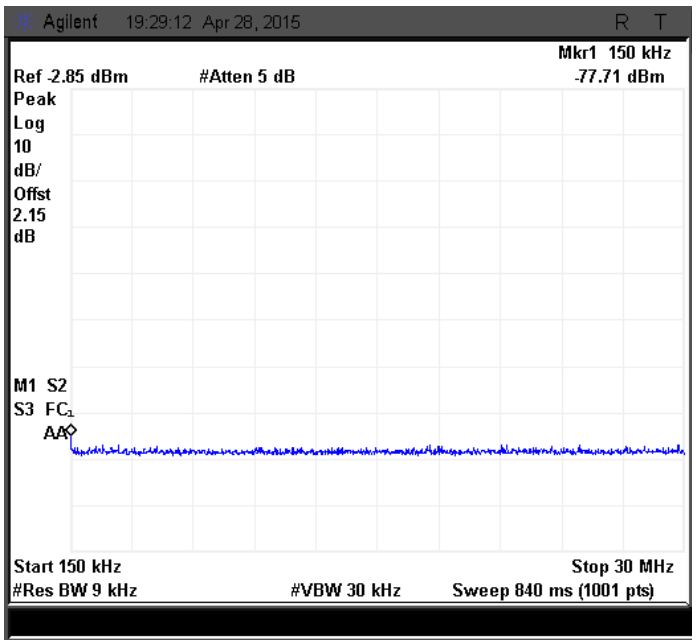

Figure 328: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

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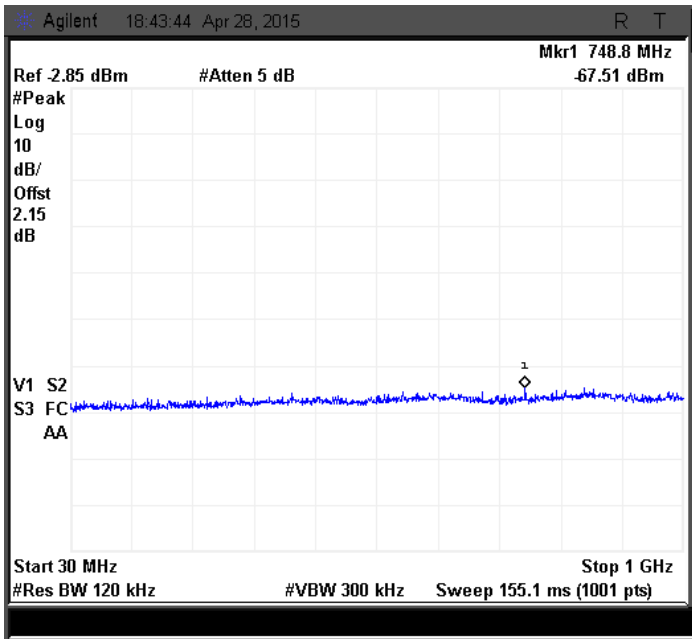

Figure 329: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

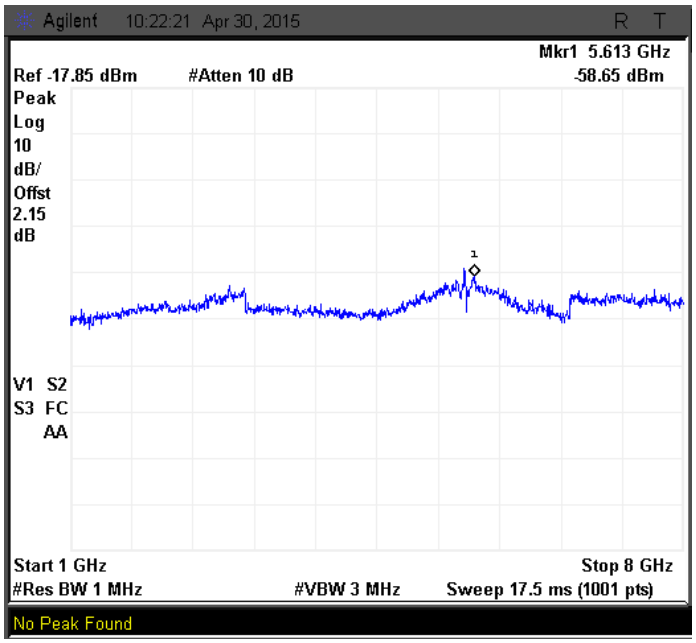

Figure 330: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

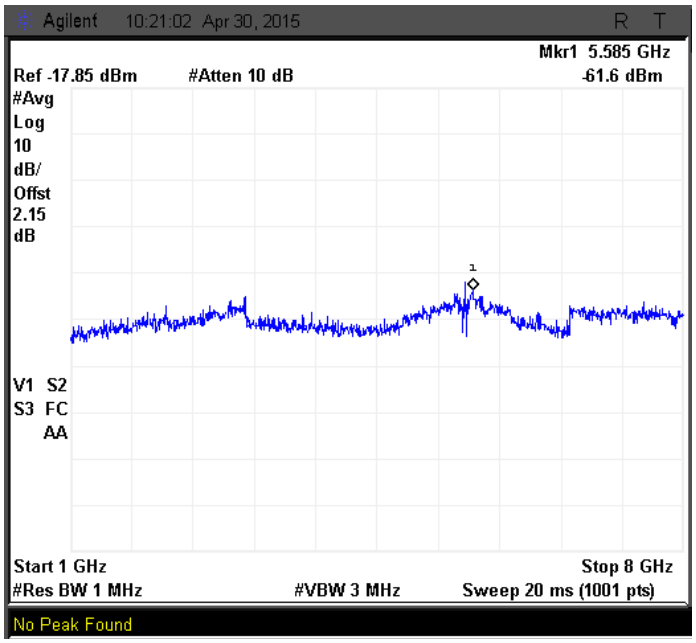

Figure 331: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

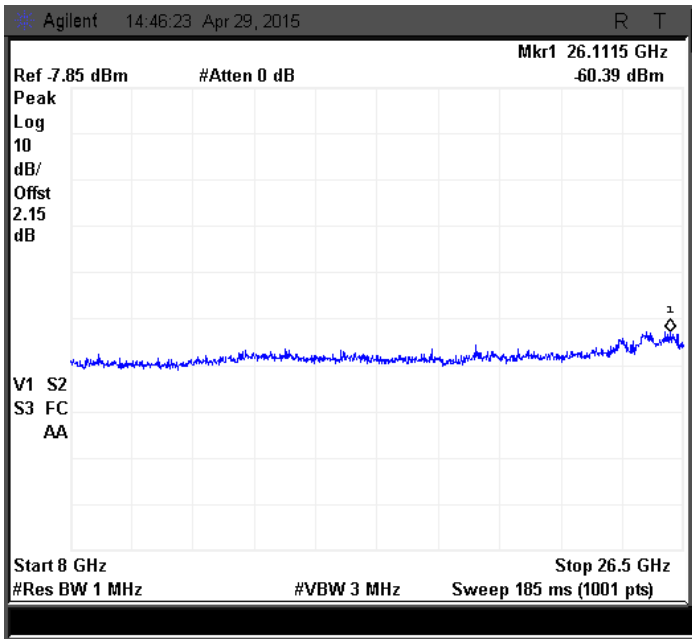

Figure 332: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

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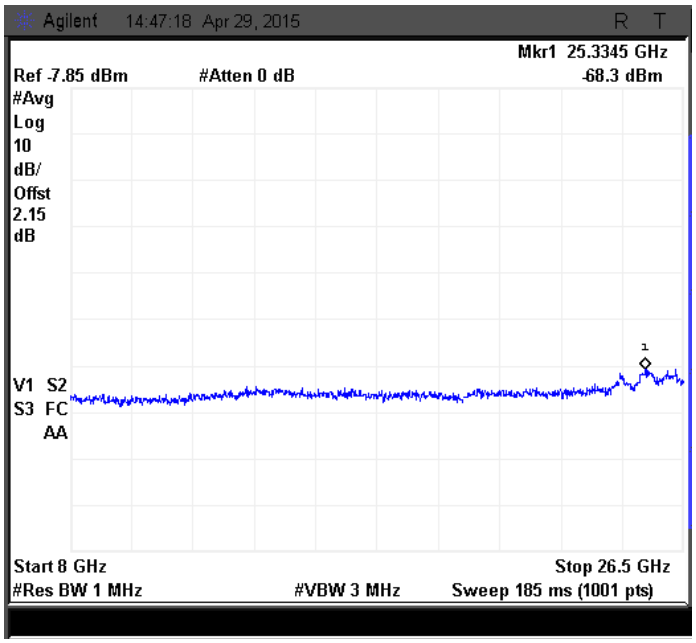

Figure 333: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

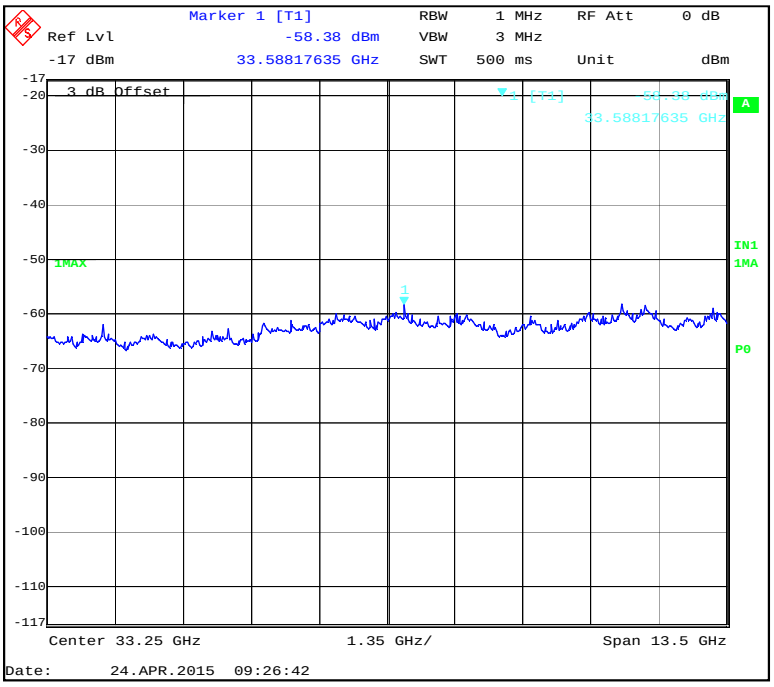

Figure 334: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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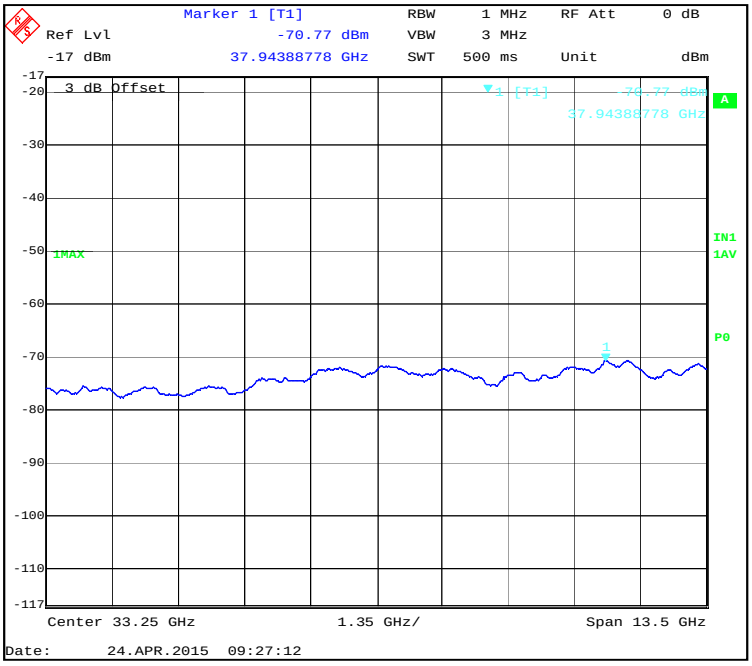

Figure 335: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg

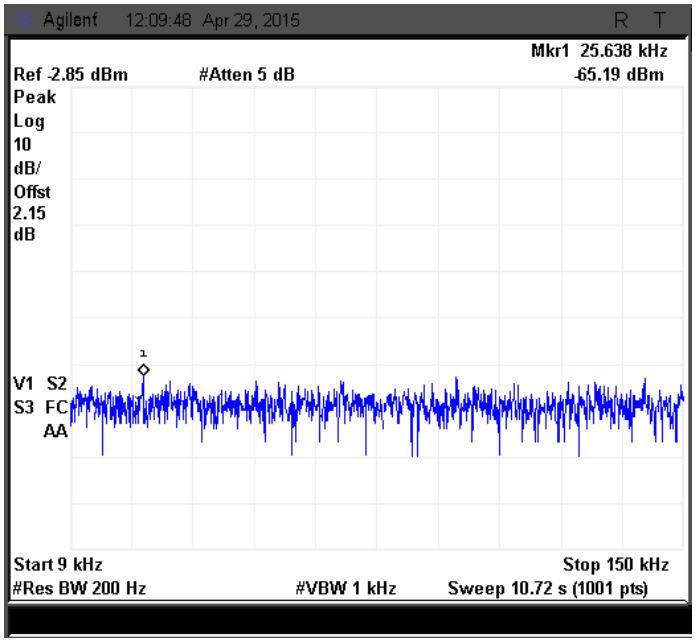

Figure 336: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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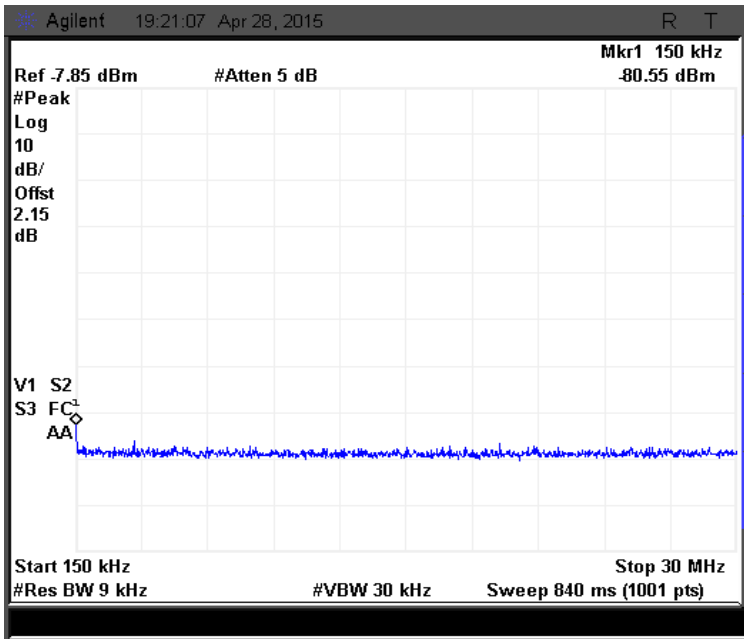

Figure 337: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

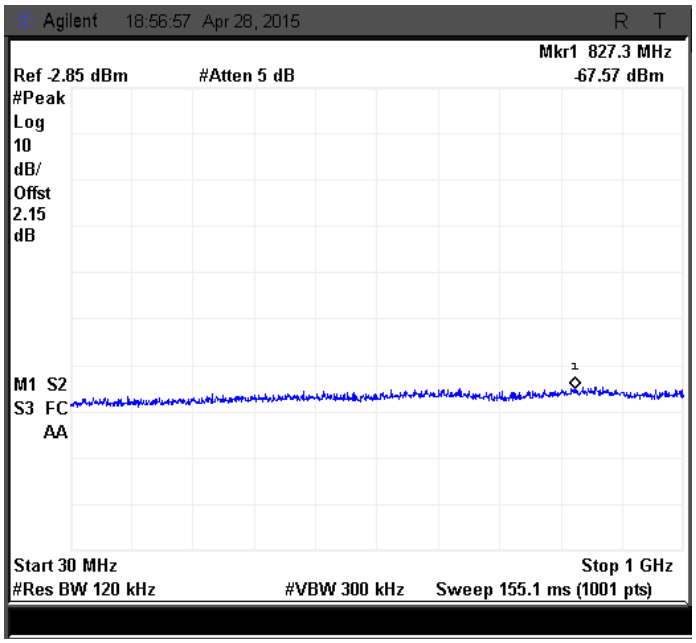

Figure 338: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

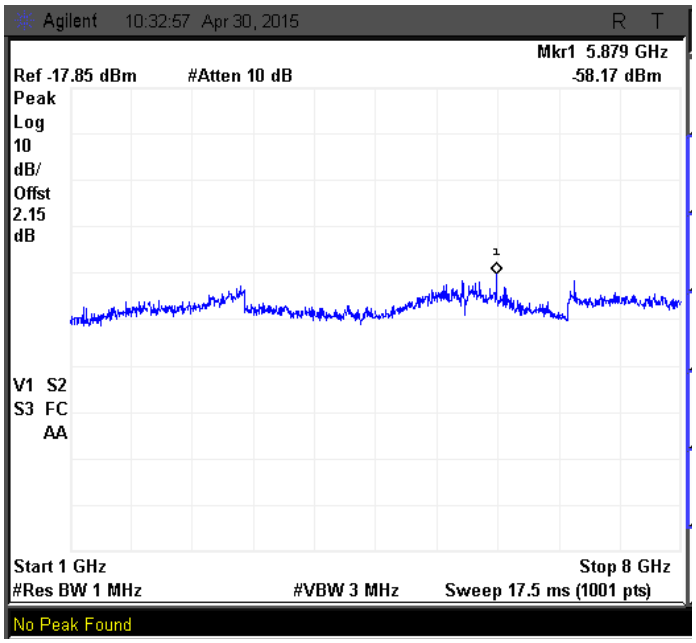

Figure 339: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

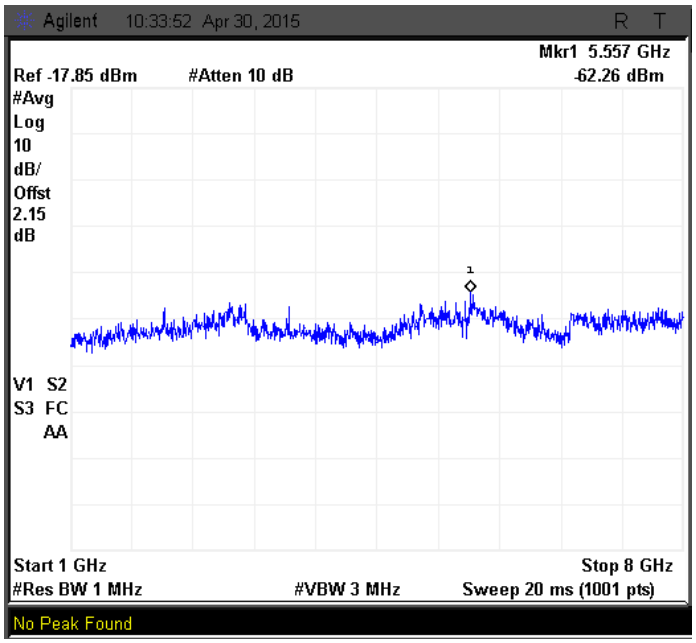

Figure 340: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

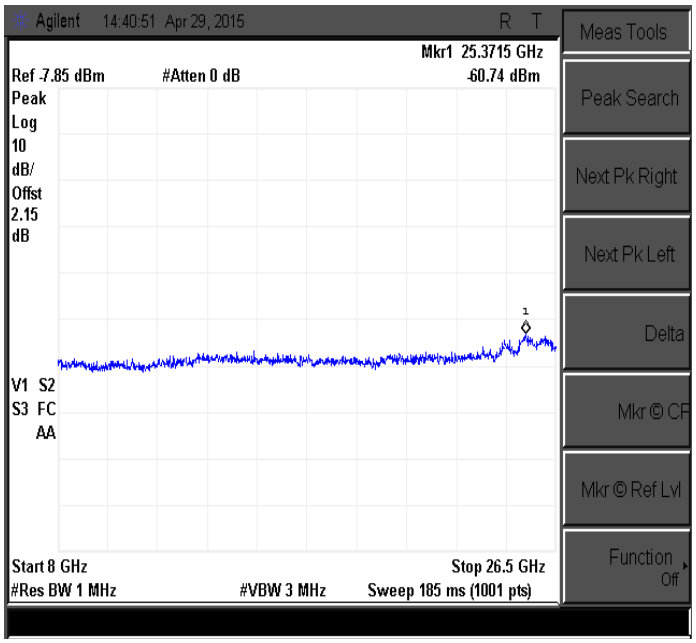

Figure 341: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

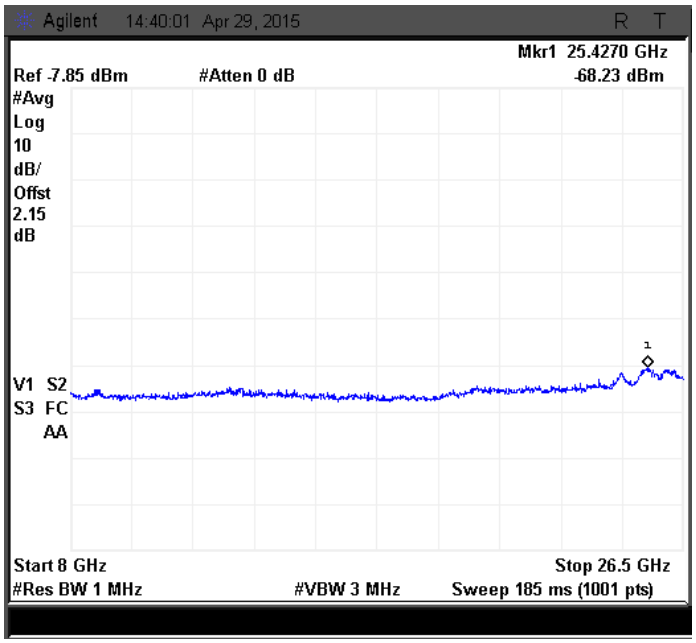

Figure 342: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

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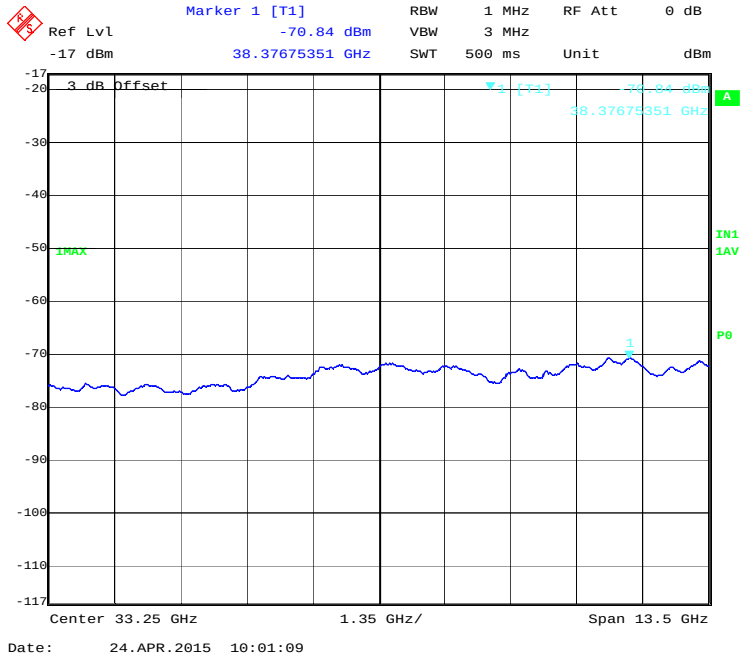

Figure 343: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

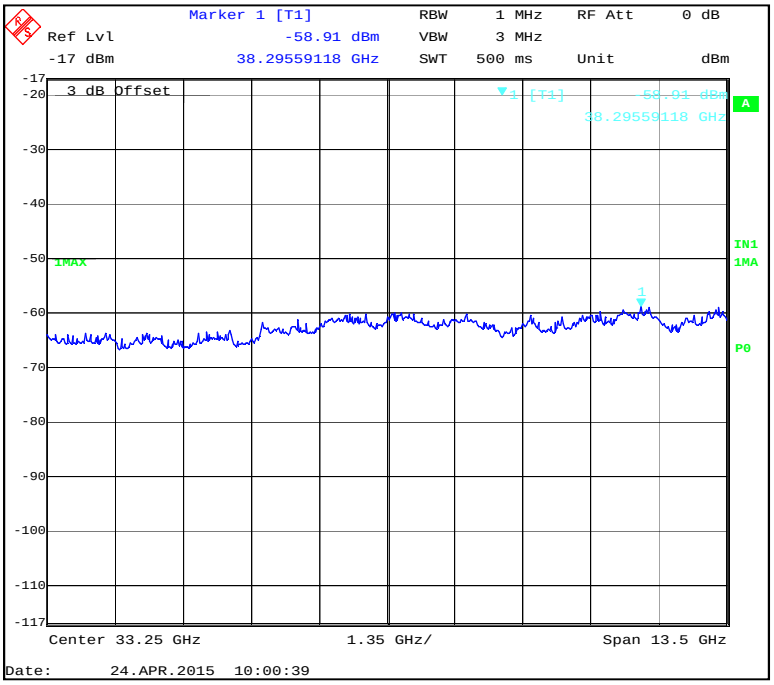

Figure 344: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.6.2 40MHz MODULATION BW - MID CHANNEL_5550 MHz

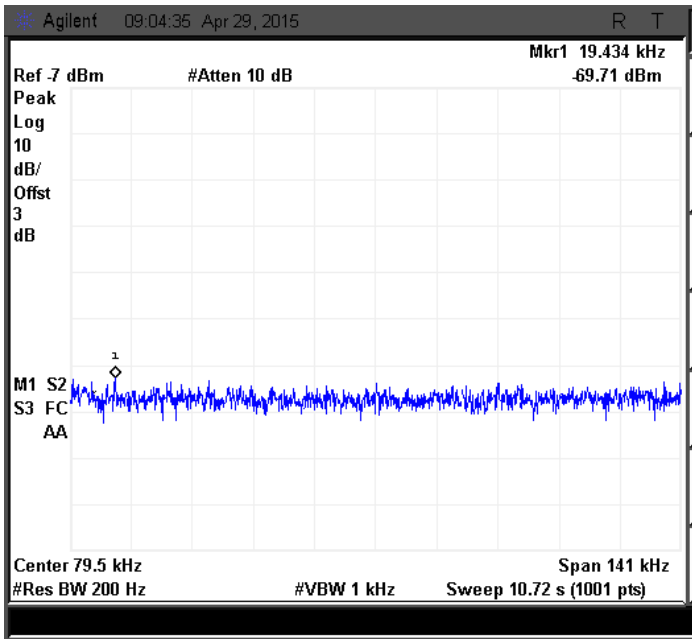

Figure 345: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

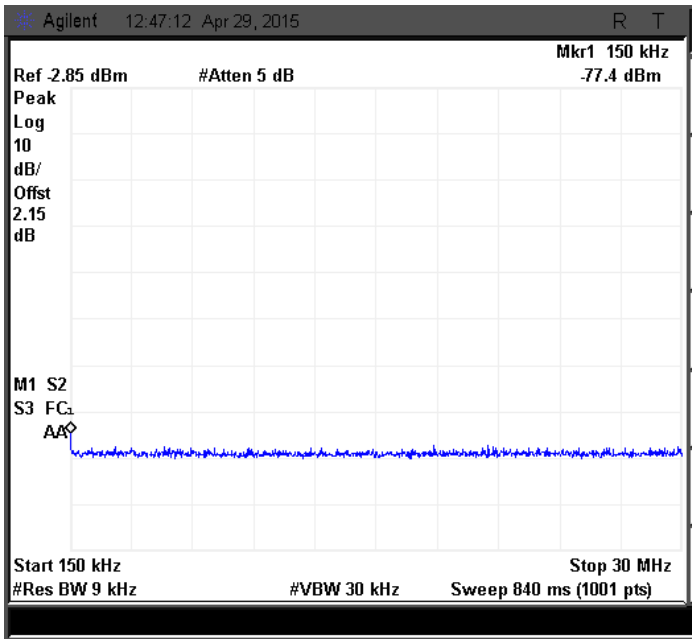

Figure 346: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

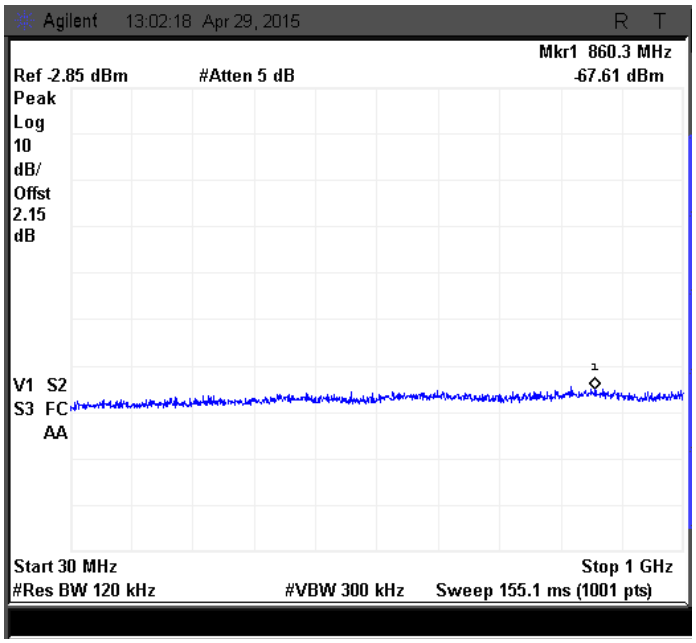

Figure 347: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

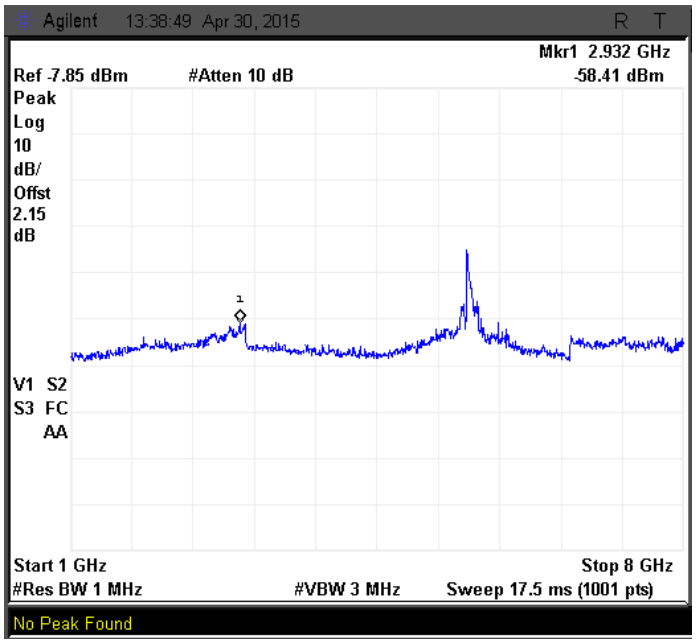

Figure 348: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

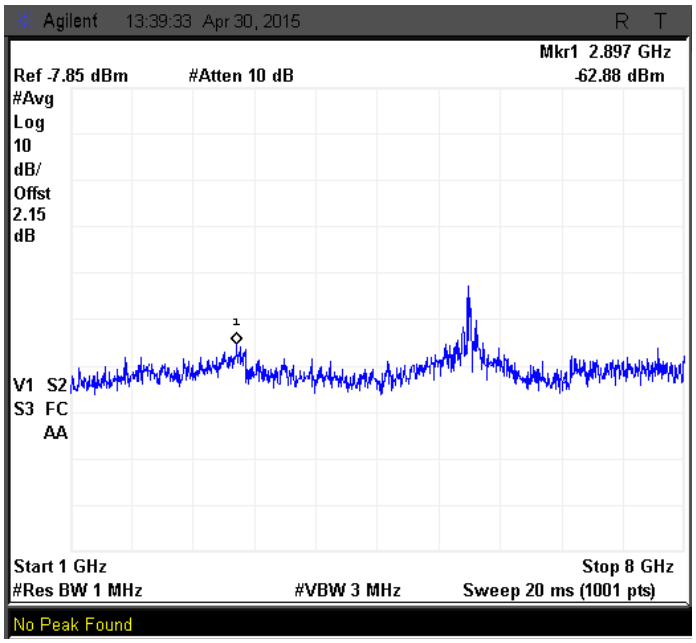

Figure 349: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

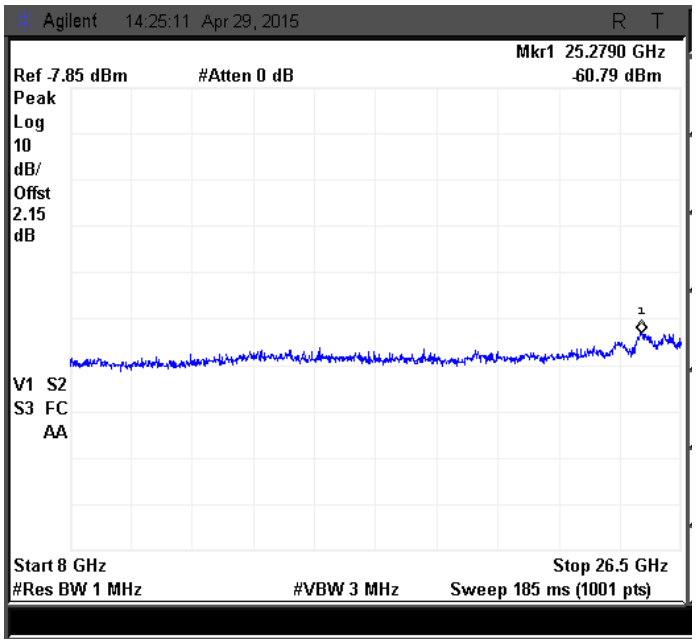

Figure 350: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

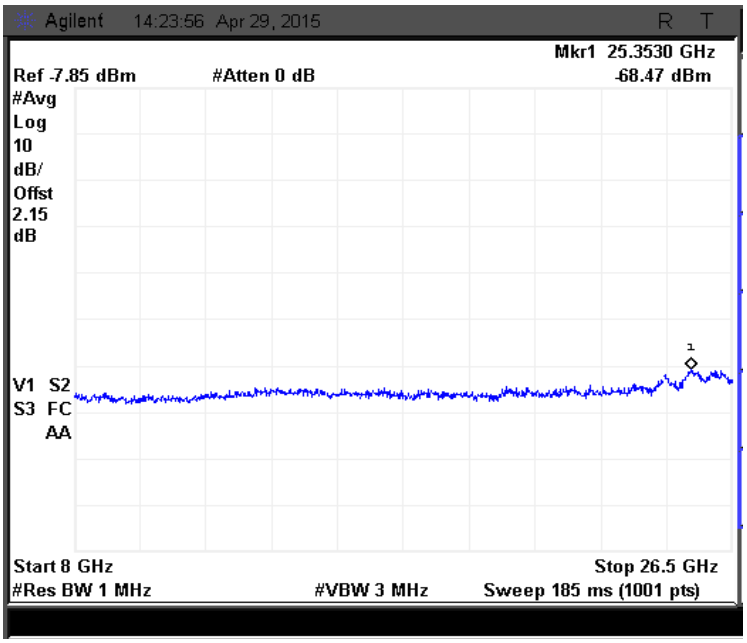

Figure 351: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

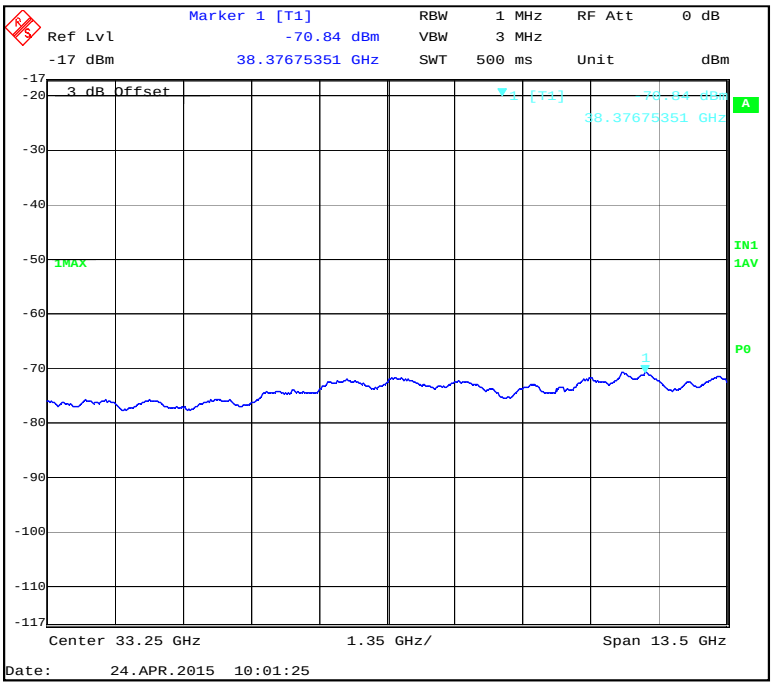

Figure 352: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

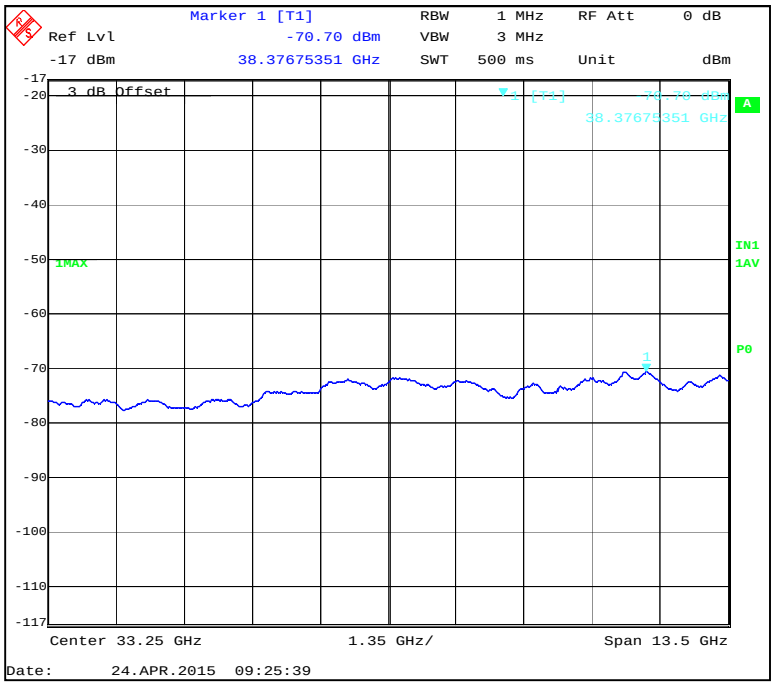

Figure 353: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

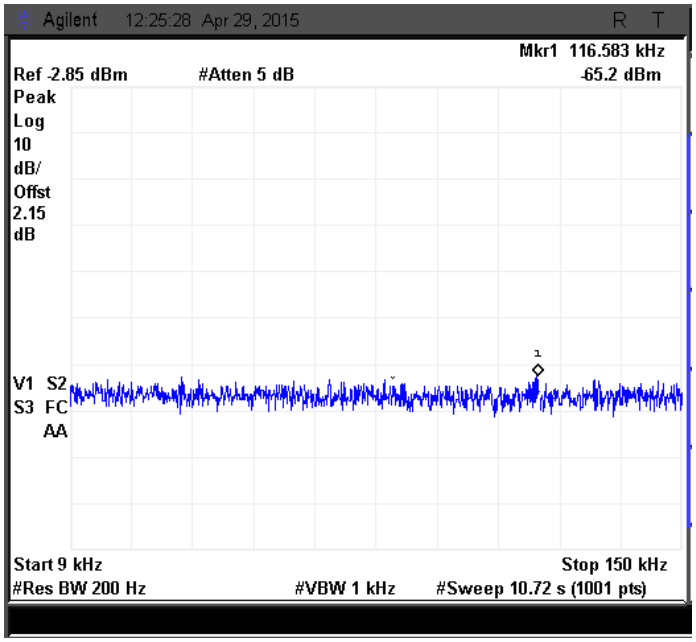

Figure 354: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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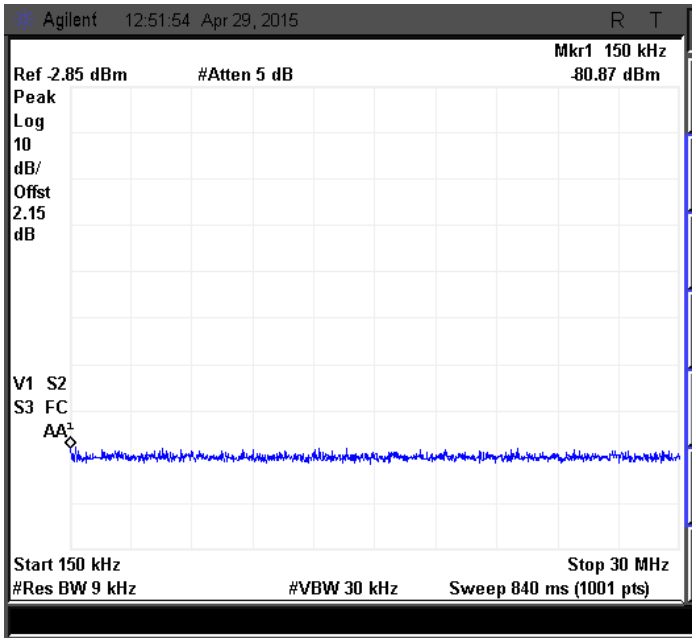

Figure 355: Spurious emission measured from 150 kHz to 30 kHz at Ch. 1-Peak

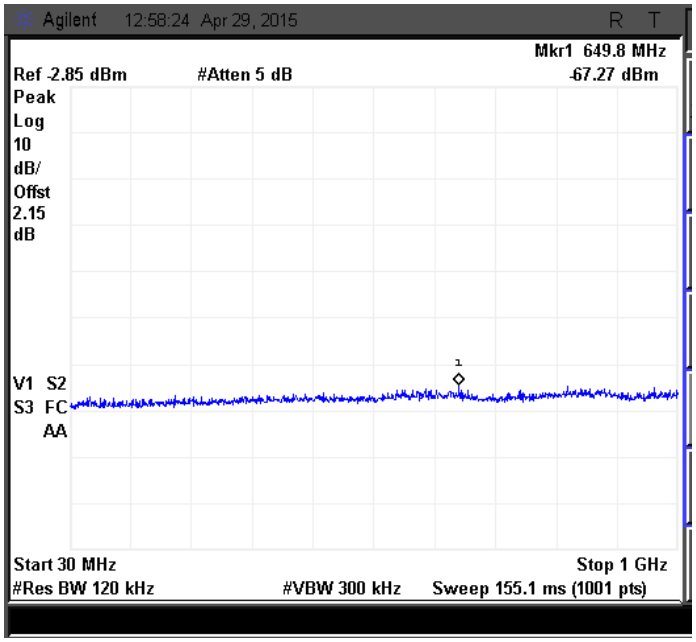

Figure 356: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

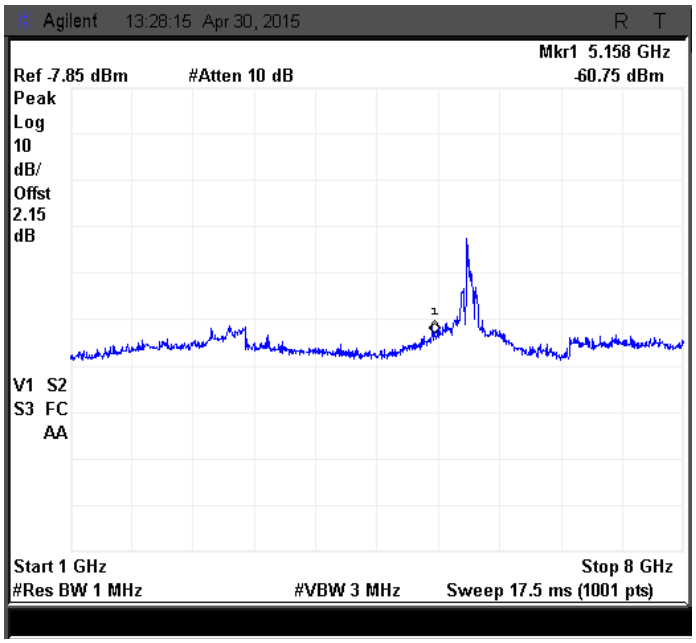

Figure 357: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

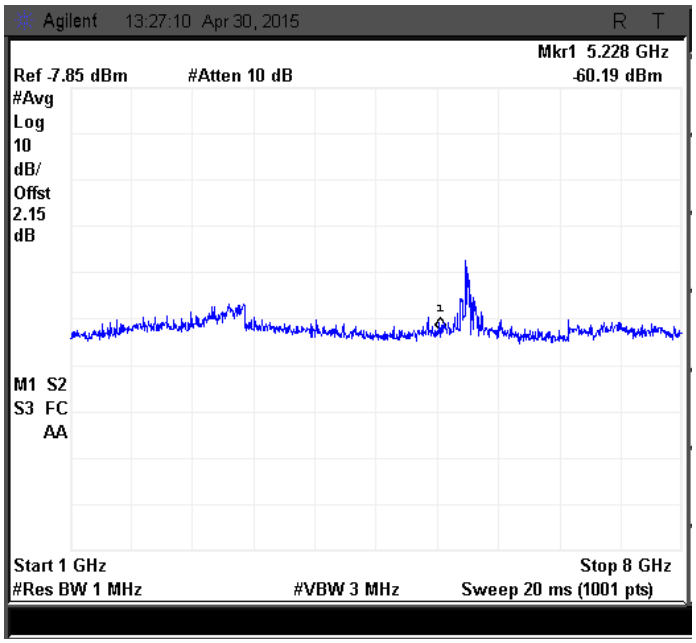

Figure 358: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

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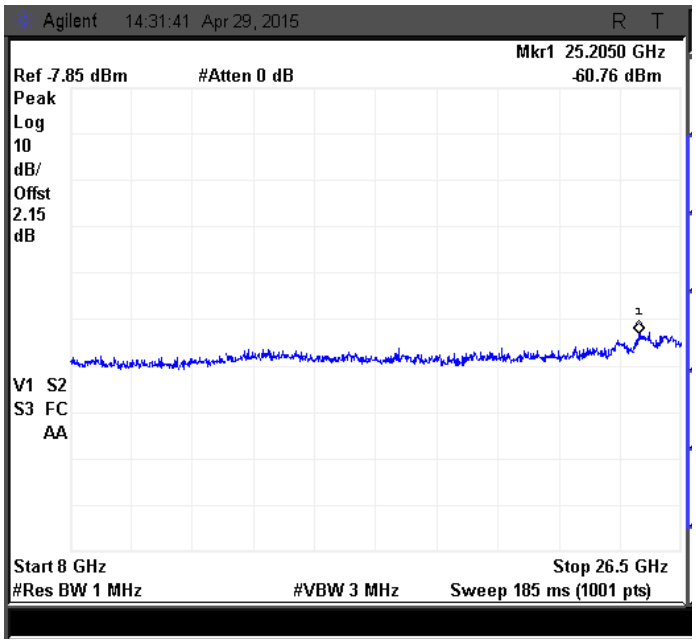

Figure 359: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

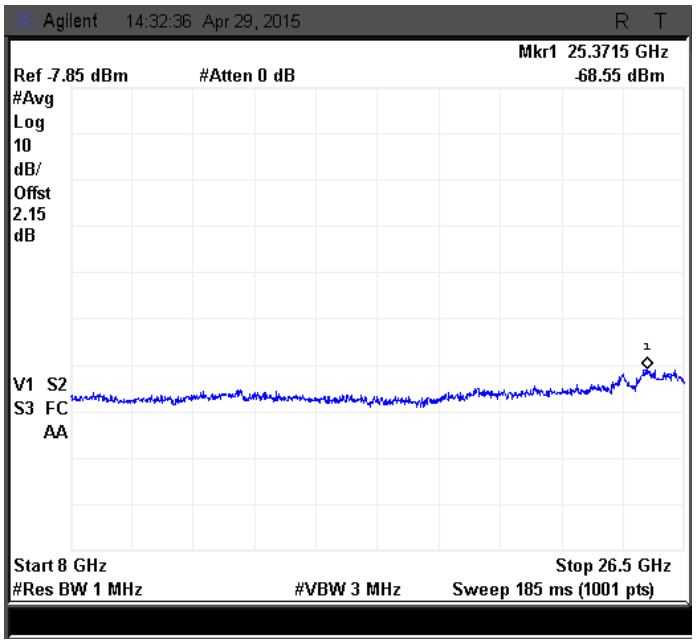

Figure 360: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

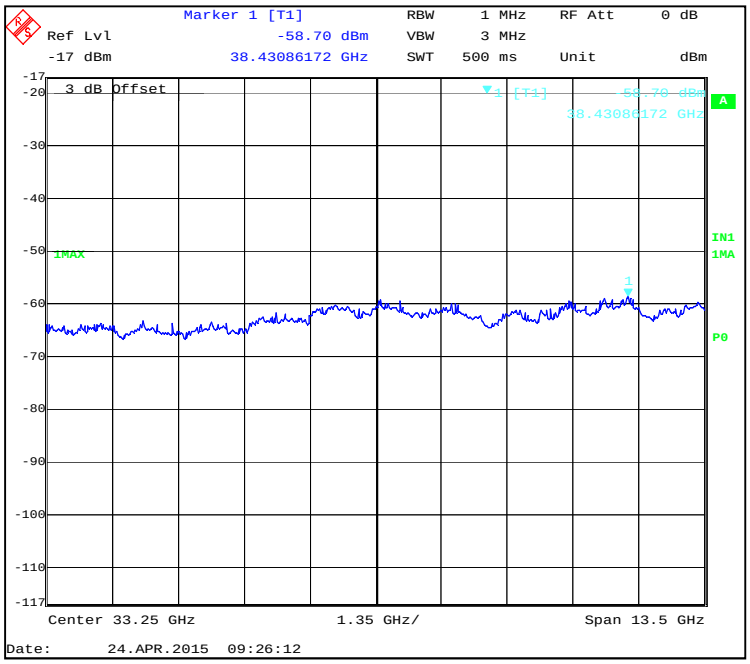

Figure 361: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

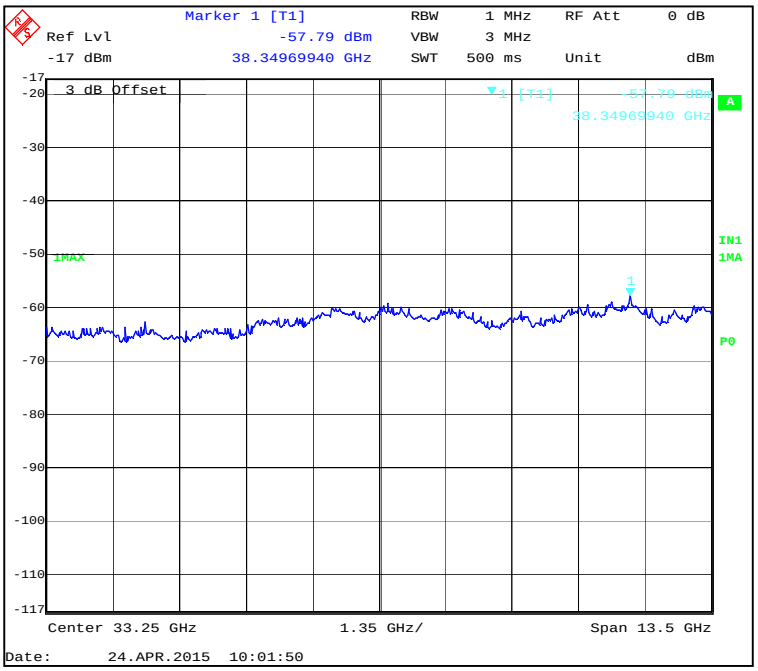

Figure 362: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.6.3 40MHz MODULATION BW - HIGH CHANNEL_5700MHz

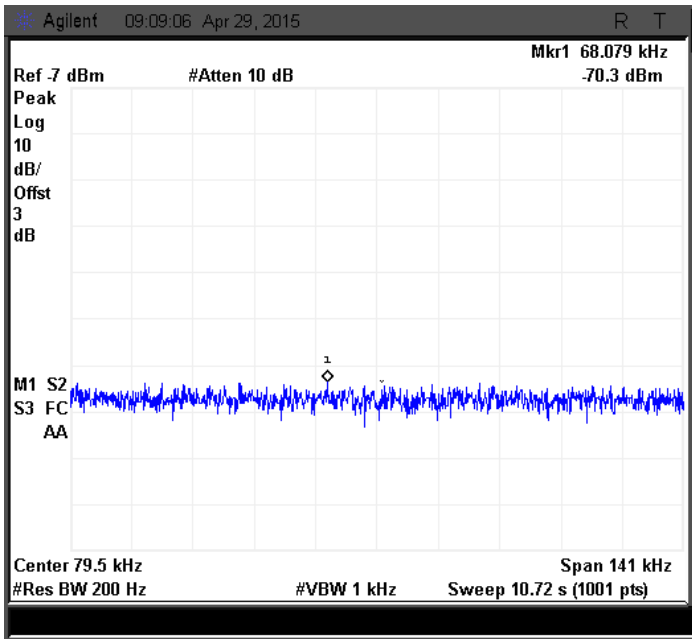

Figure 363: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

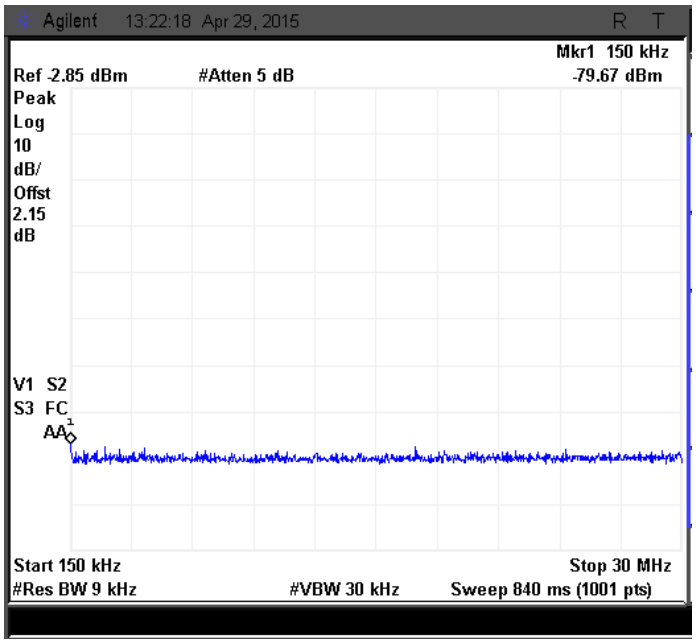

Figure 364: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

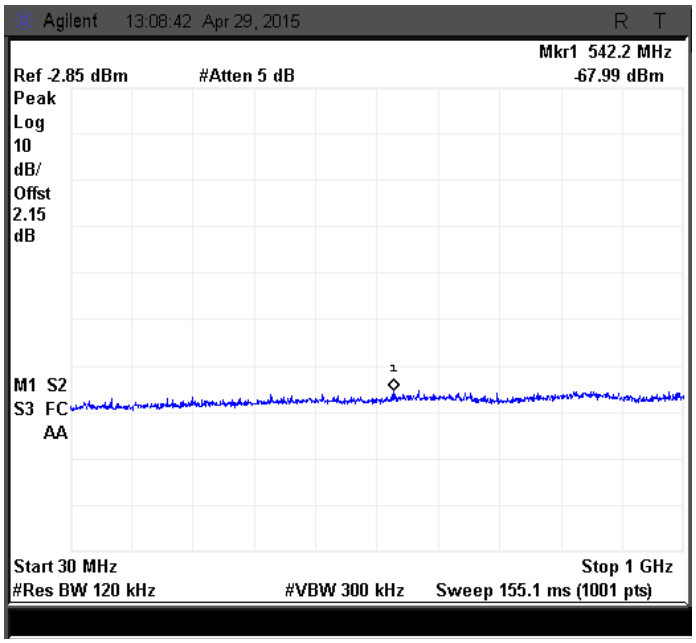

Figure 365: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

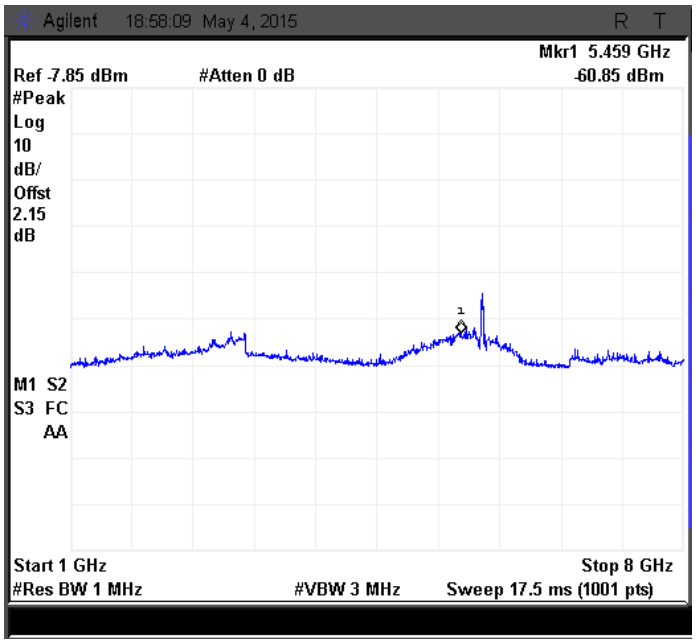

Figure 366: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

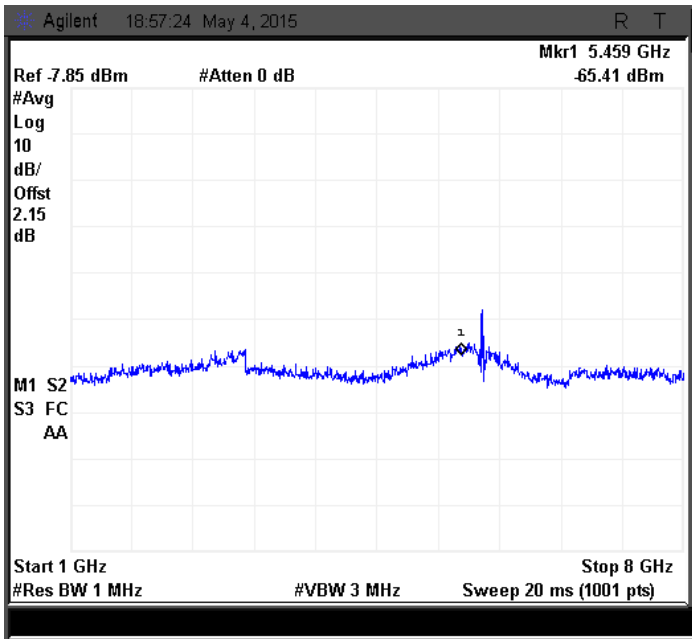

Figure 367: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

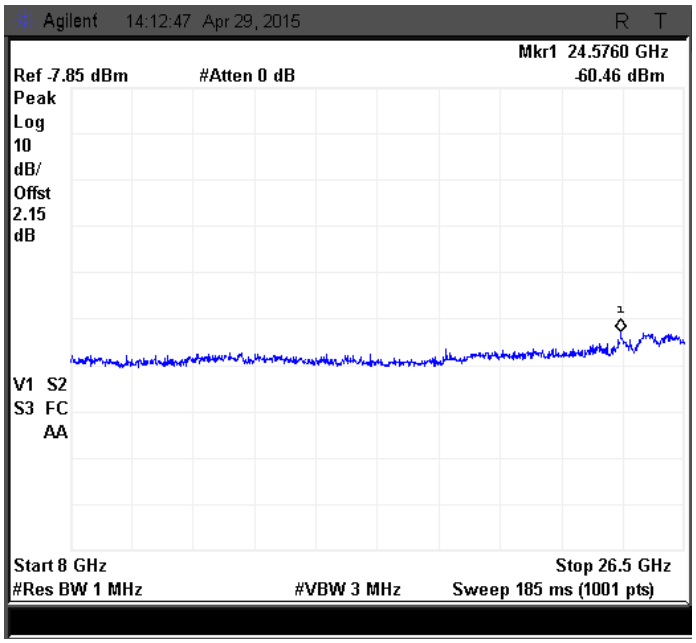

Figure 368: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

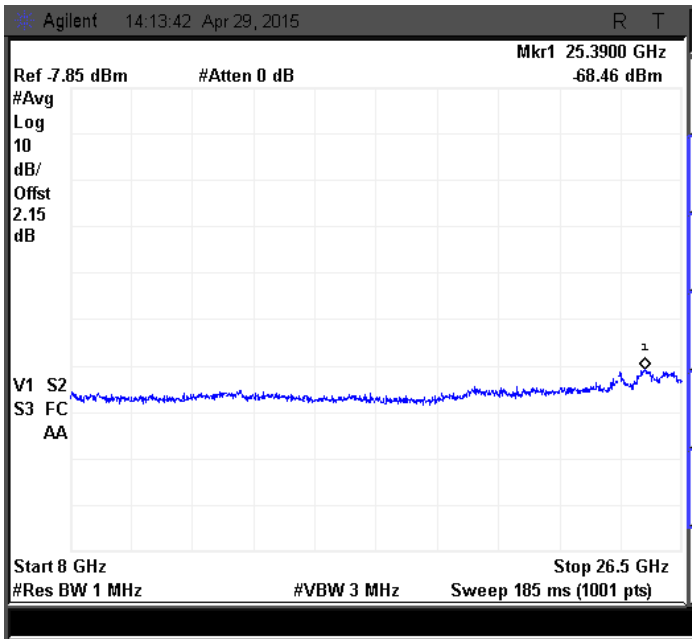

Figure 369: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

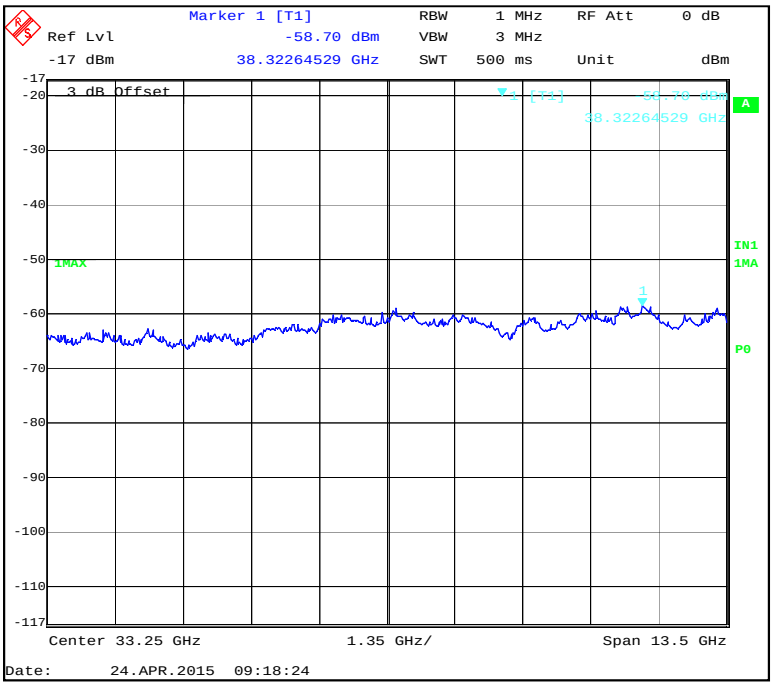

Figure 370: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

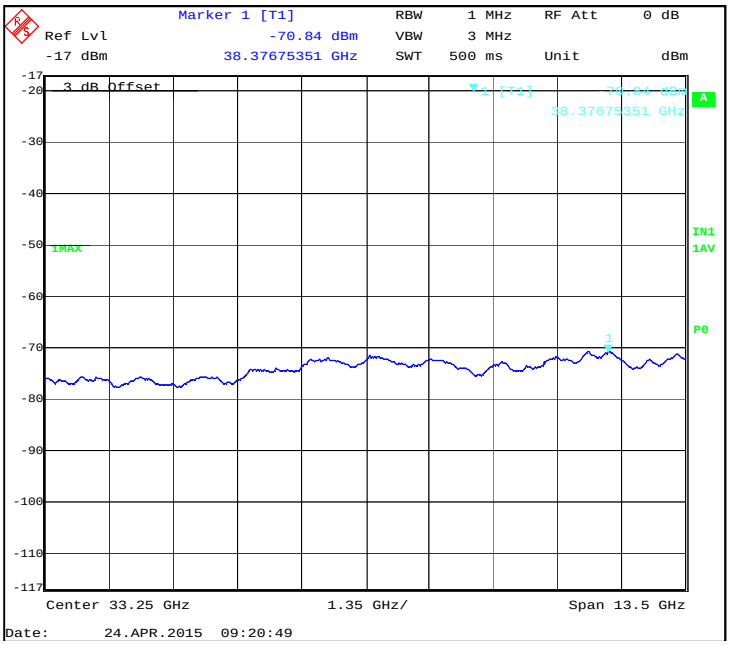

Figure 371: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Average

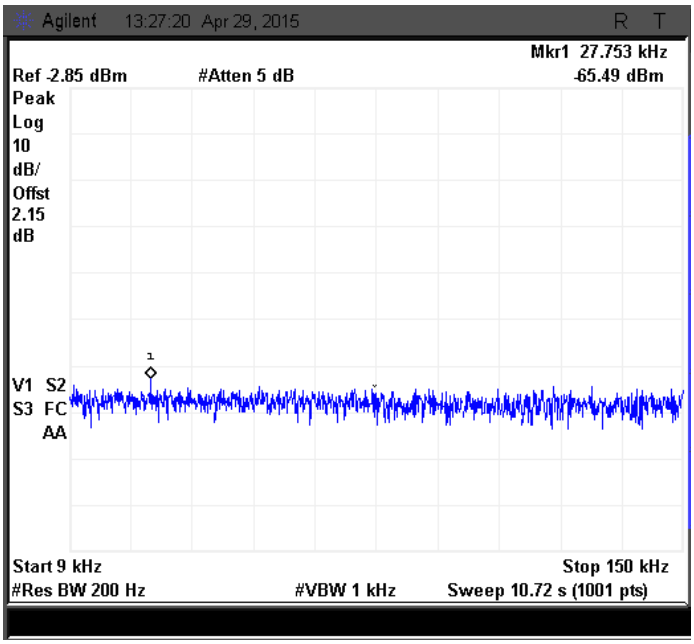

Figure 372: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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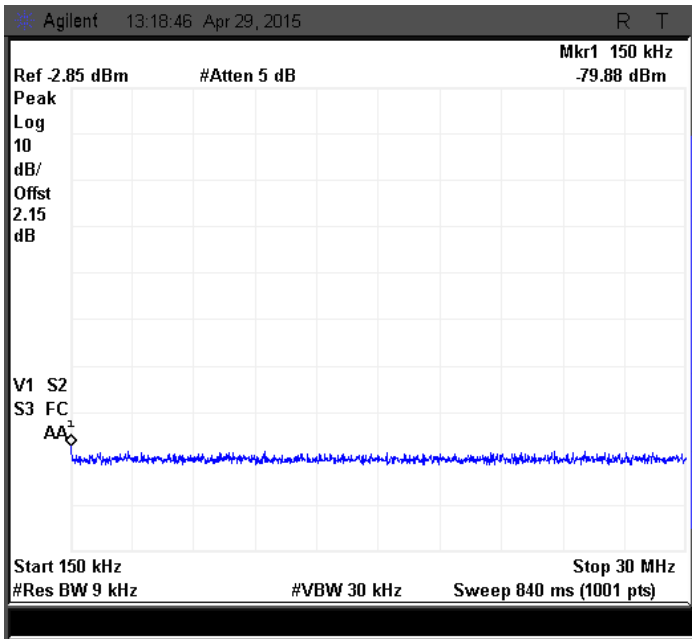

Figure 373: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

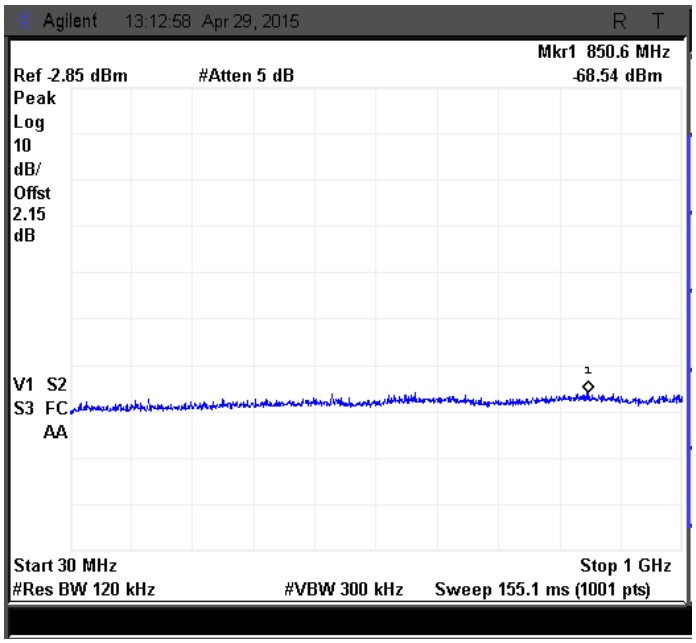

Figure 374: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

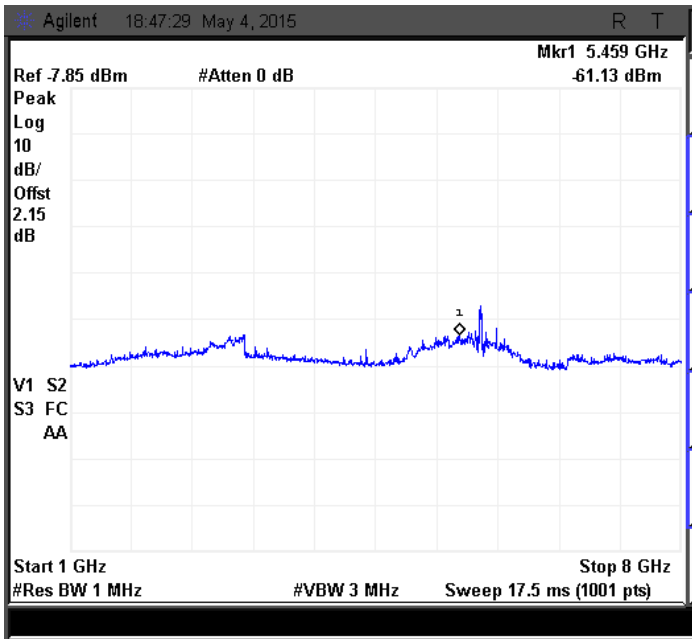

Figure 375: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

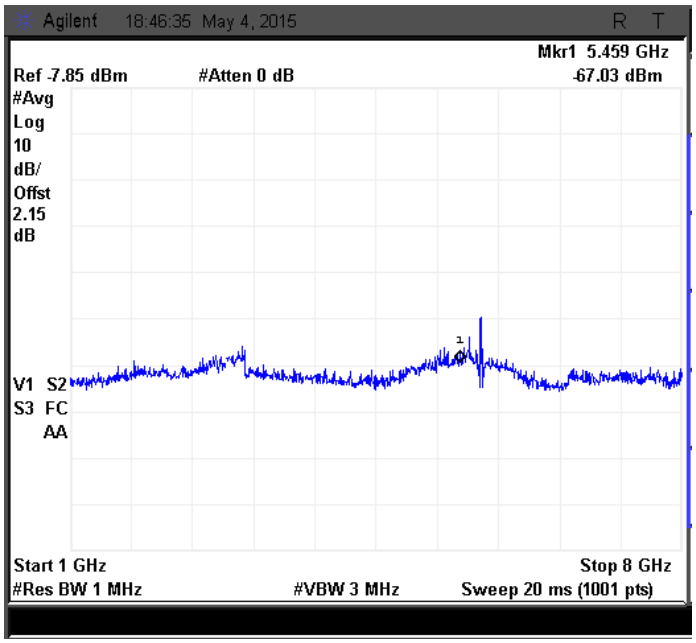

Figure 376: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

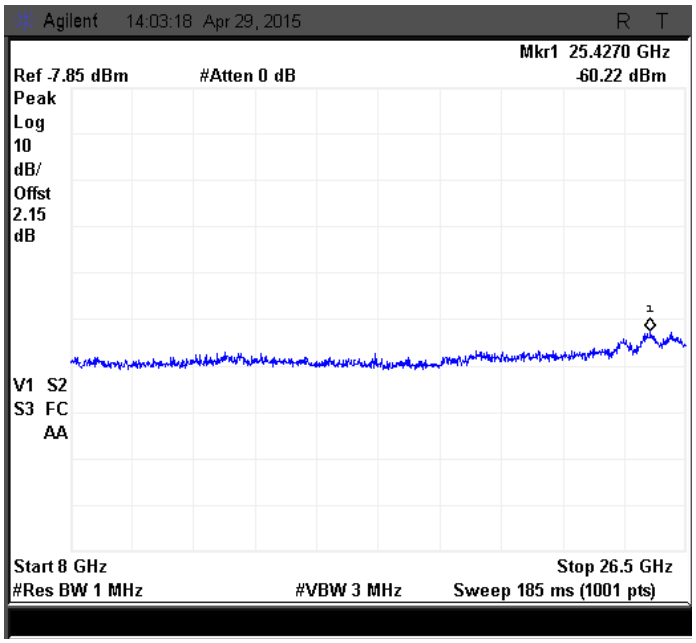

Figure 377: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

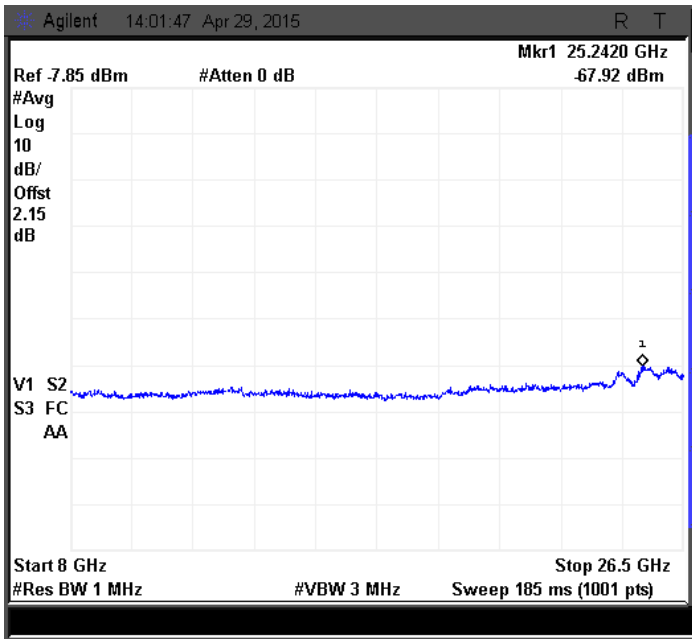

Figure 378: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

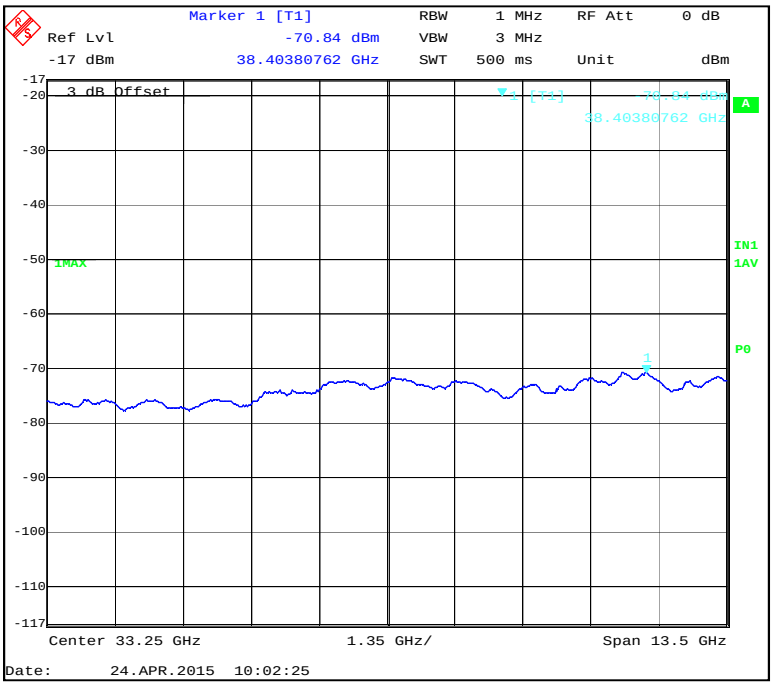

Figure 379: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

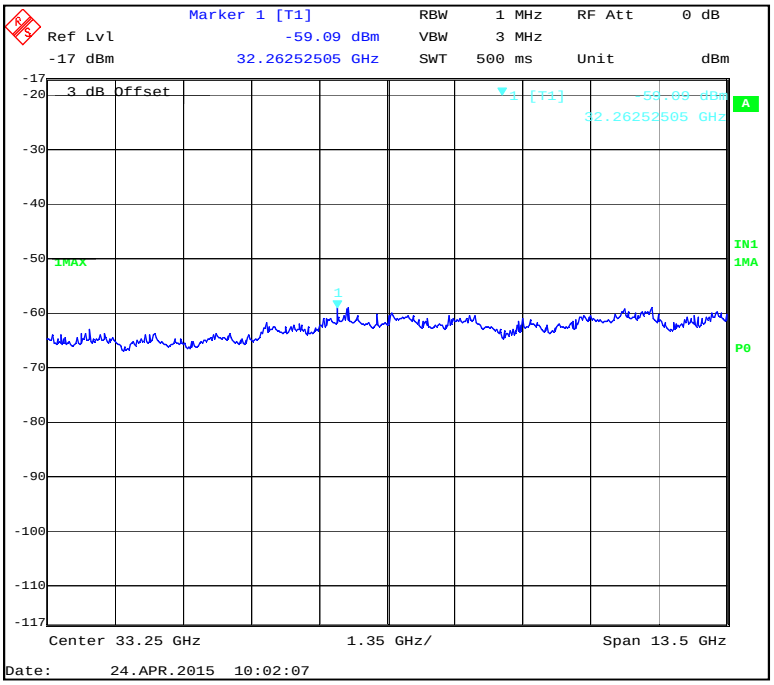

Figure 380: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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5.3.7.6.4 10MHz Modulation BW - Low channel_5485MHz

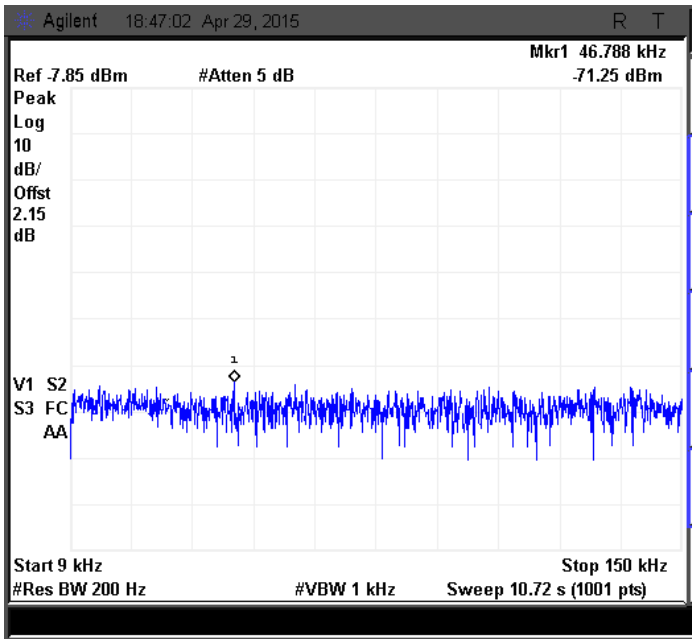

Figure 381: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

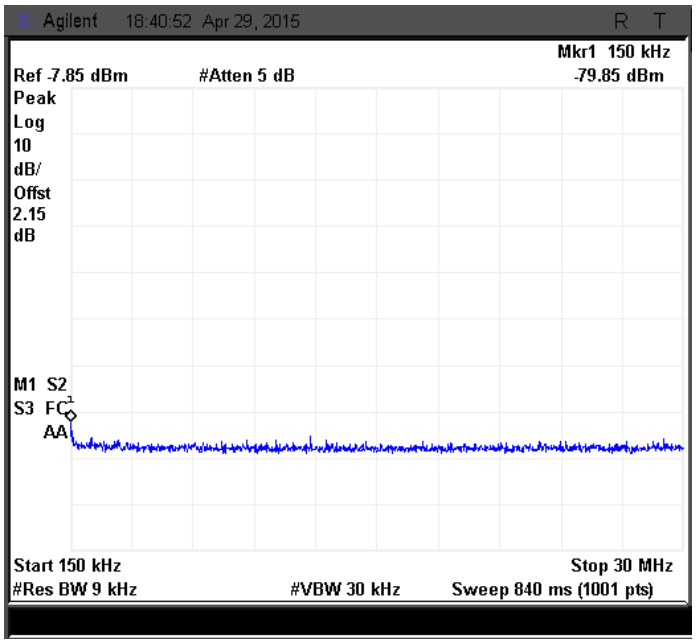

Figure 382: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

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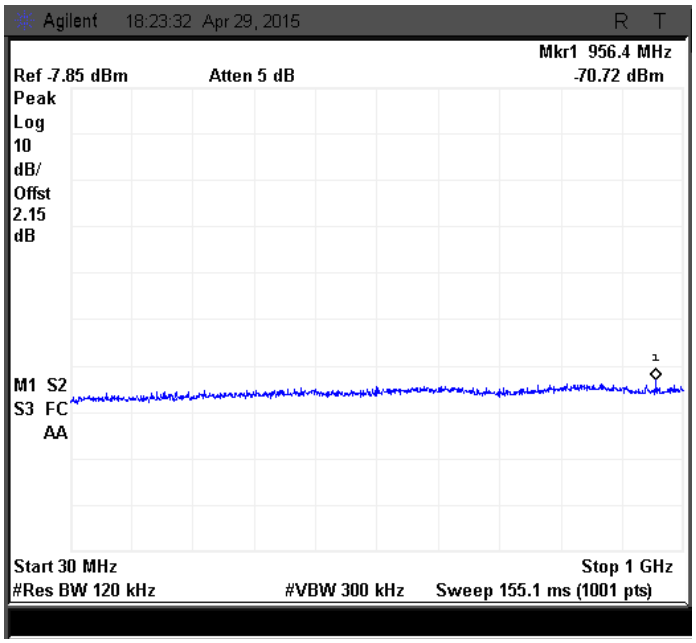

Figure 383: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

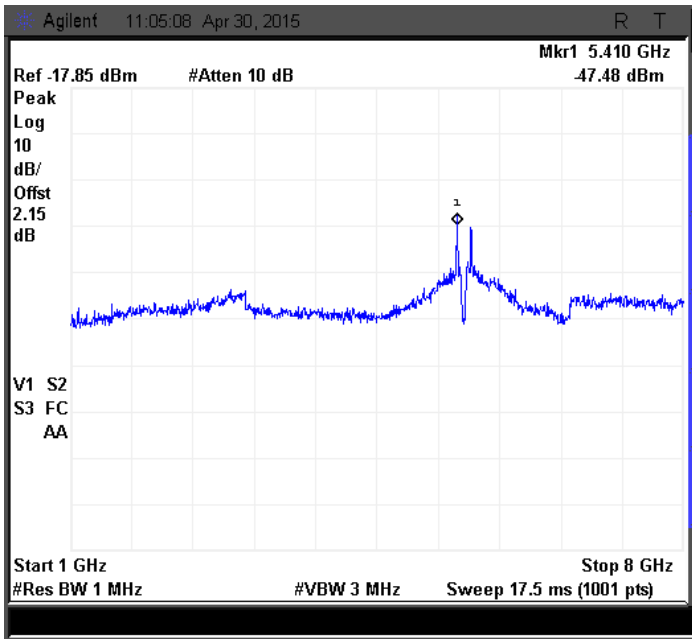

Figure 384: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

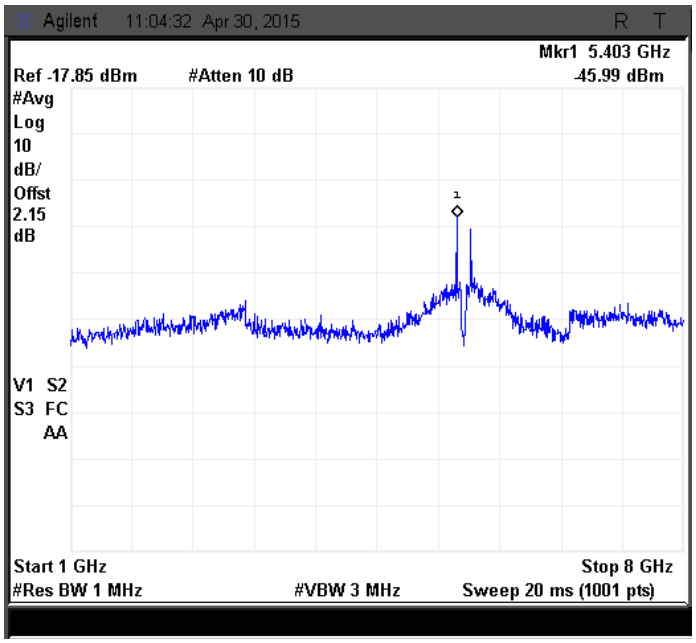

Figure 385: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

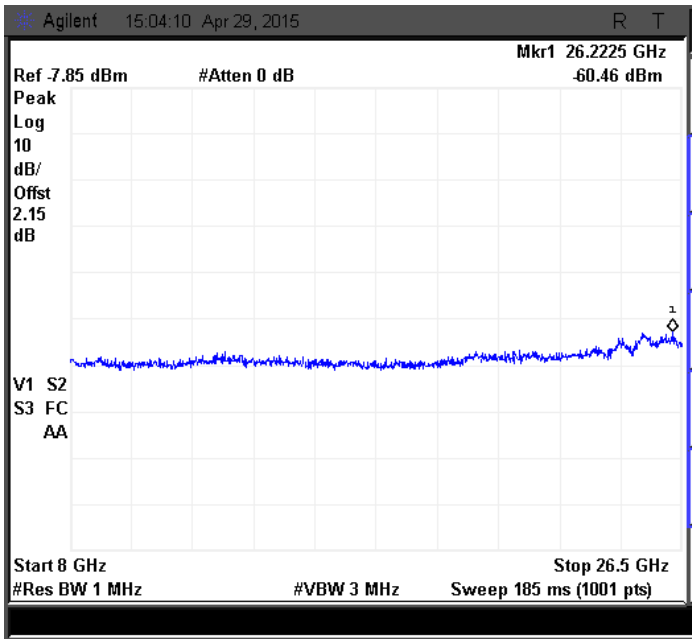

Figure 386: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

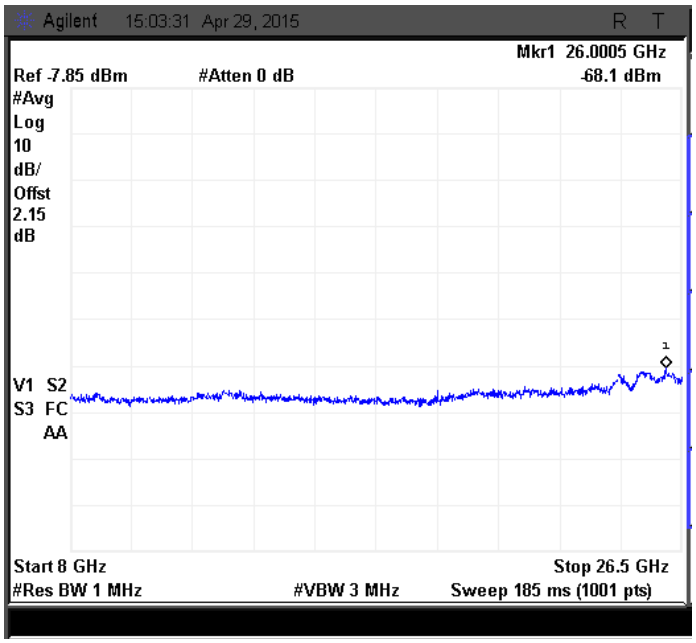

Figure 387: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

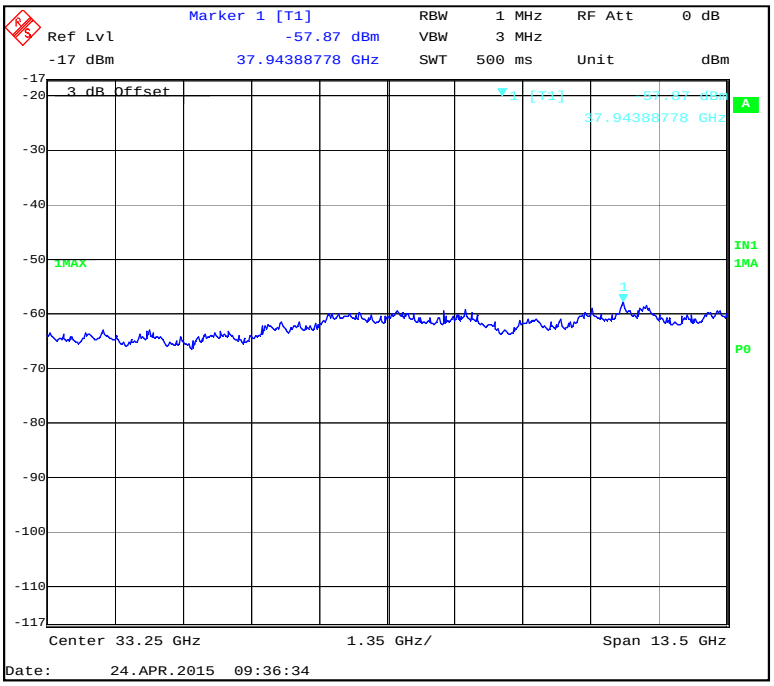

Figure 388: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Peak

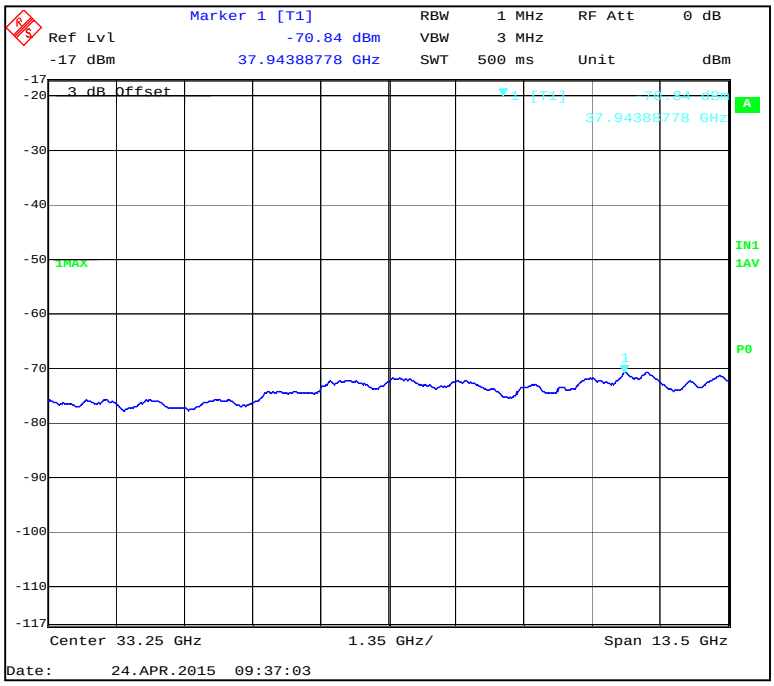

Figure 389: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

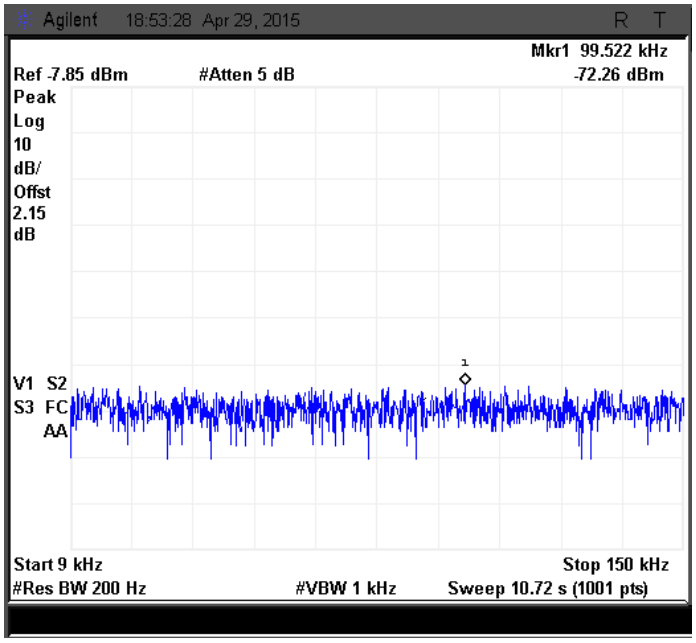

Figure 390: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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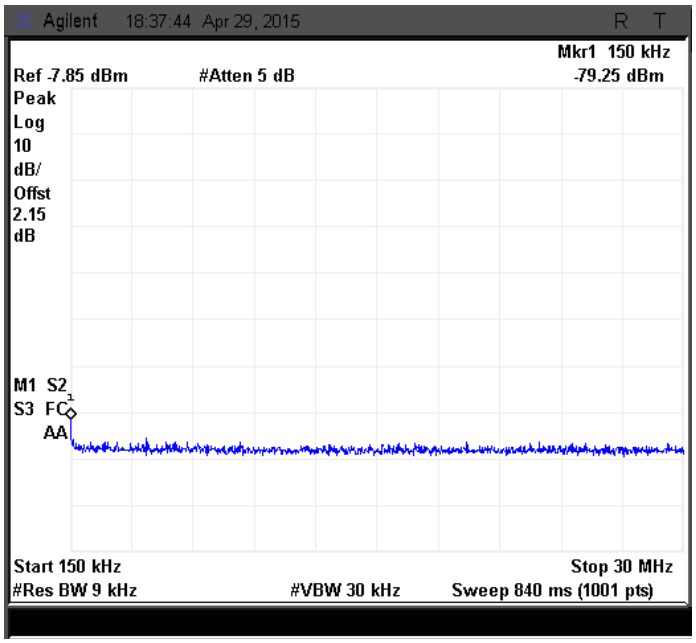

Figure 391: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

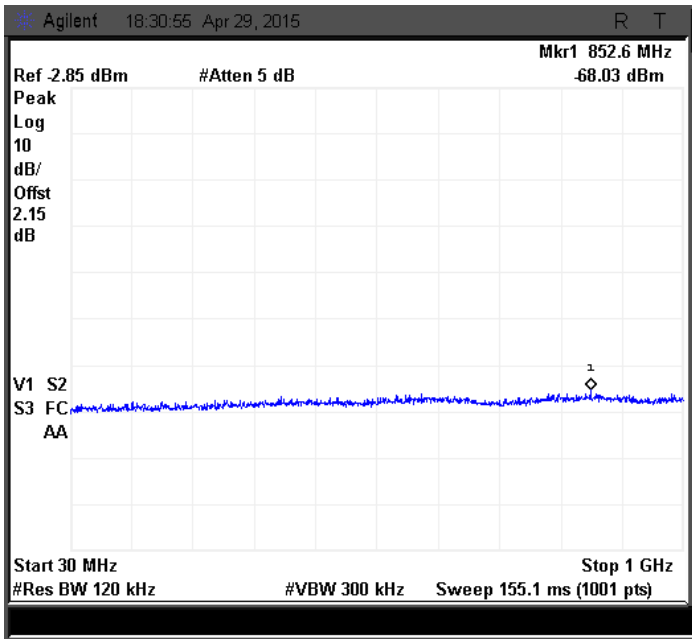

Figure 392: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

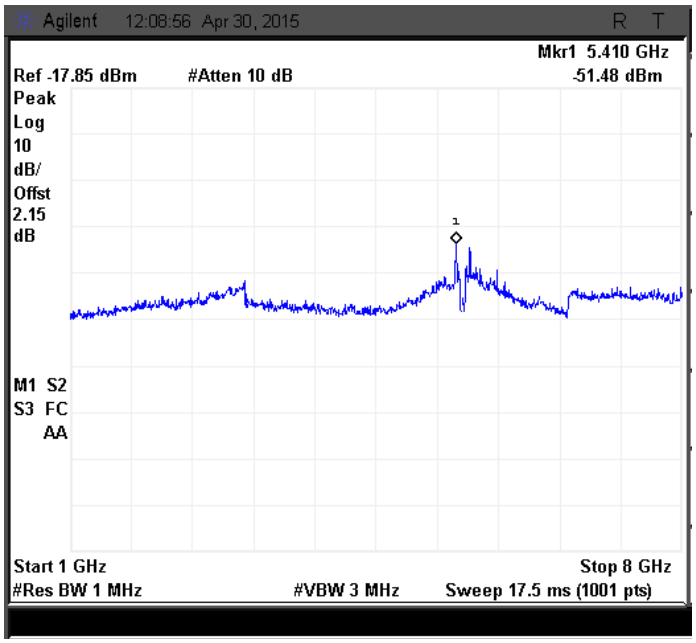

Figure 393: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

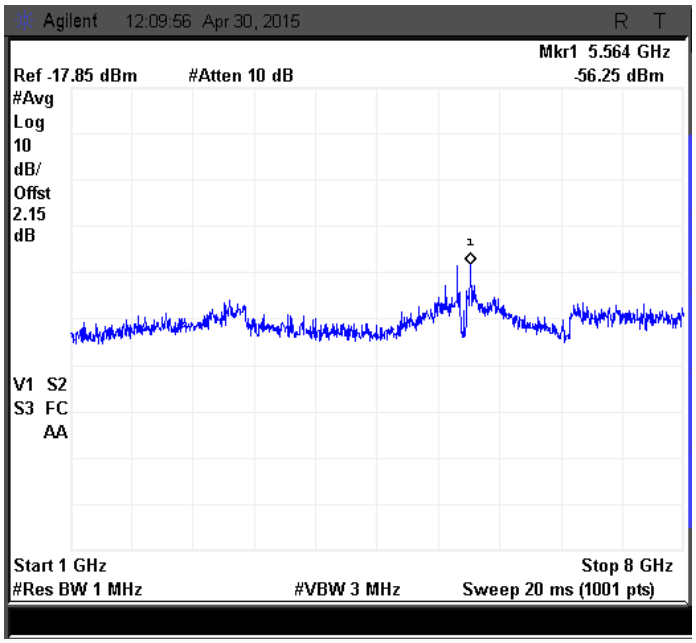

Figure 394: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

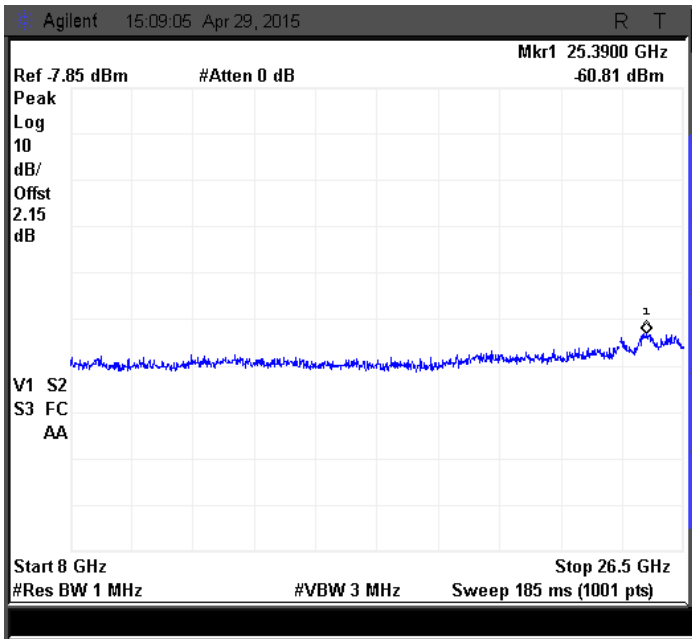

Figure 395: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

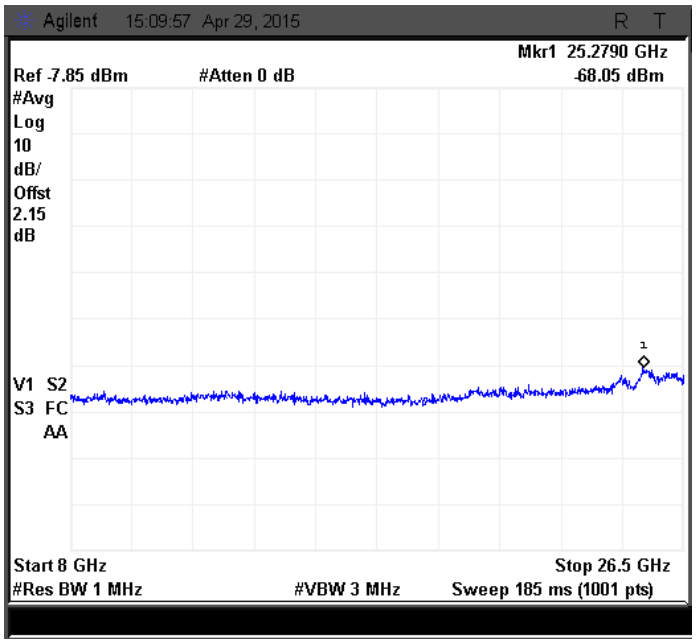

Figure 396: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

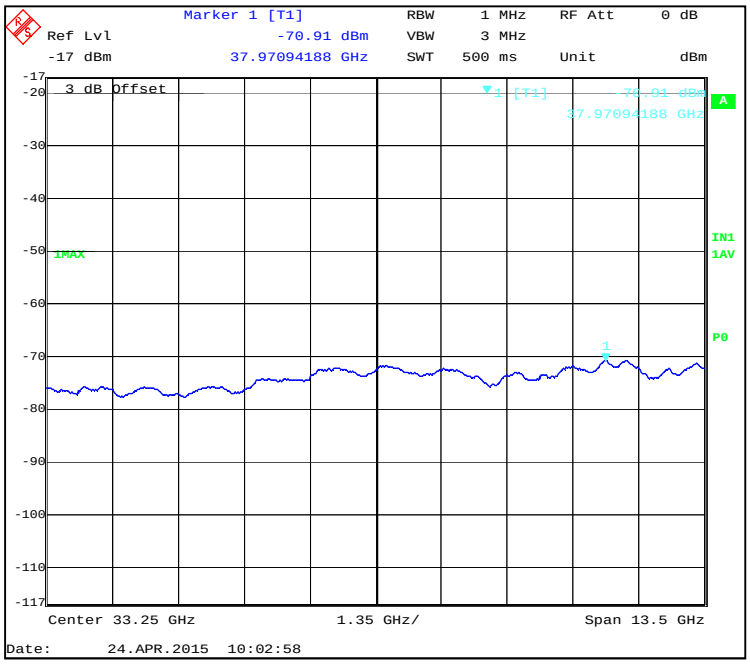

Figure 397: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

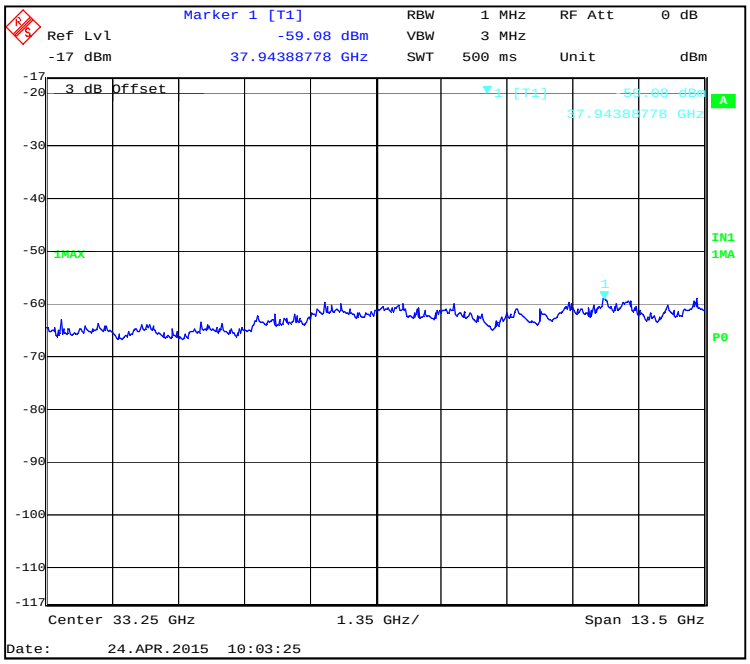

Figure 398: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.6.5 10MHz Modulation BW - Mid channel_5550MHz

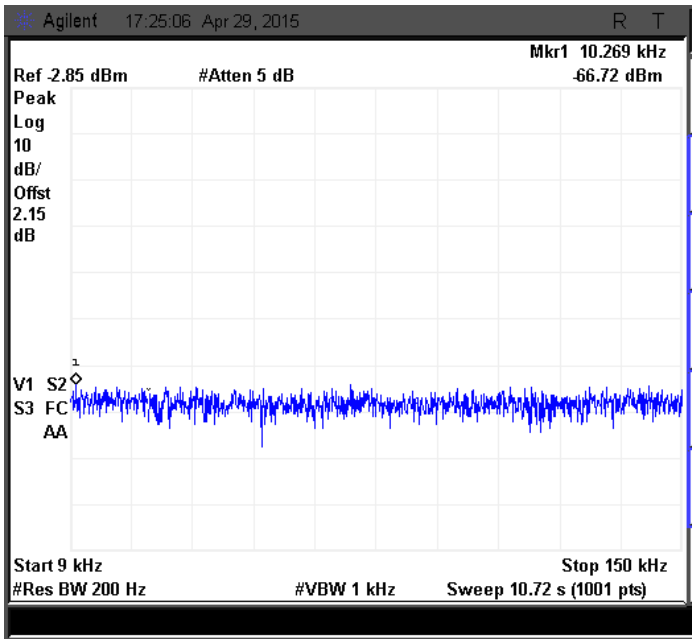

Figure 399: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

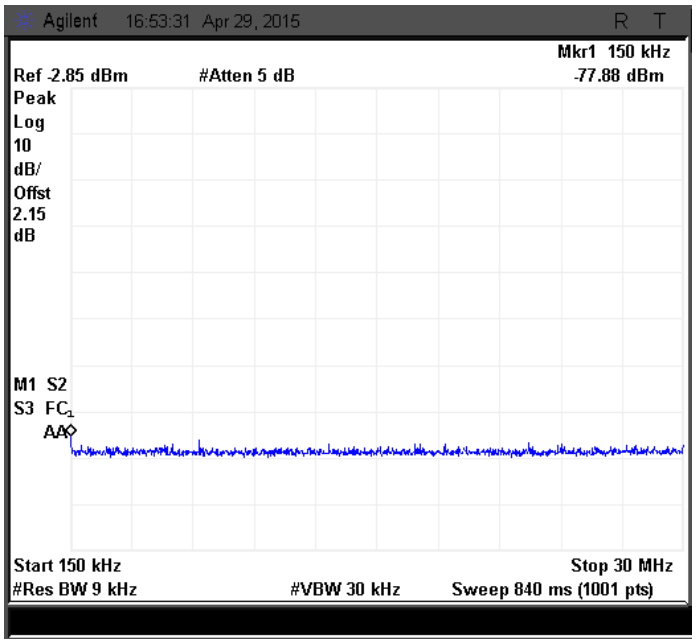

Figure 400: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

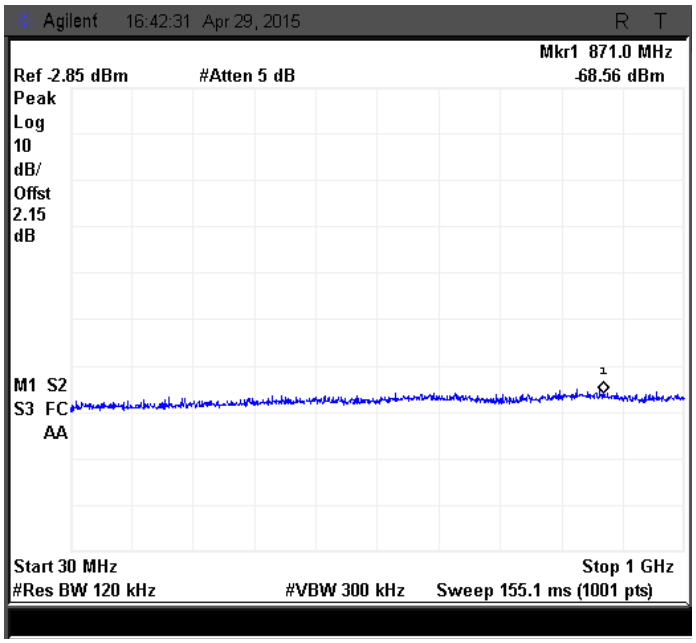

Figure 401: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

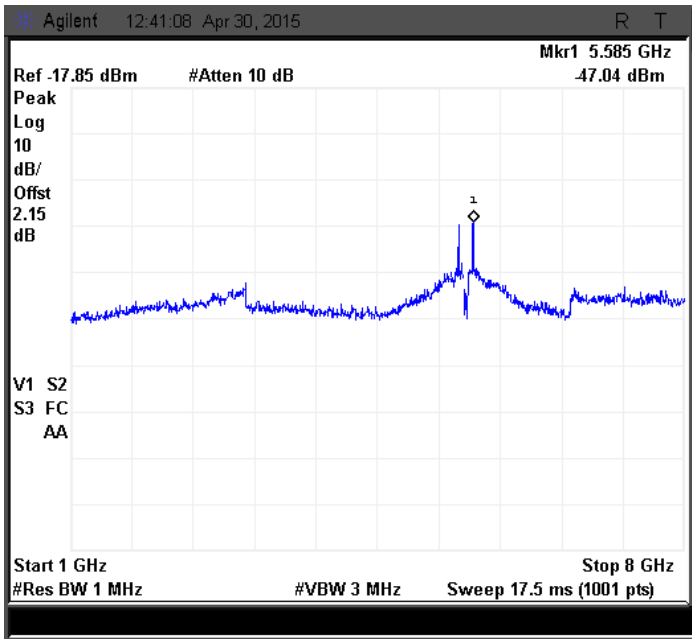

Figure 402: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

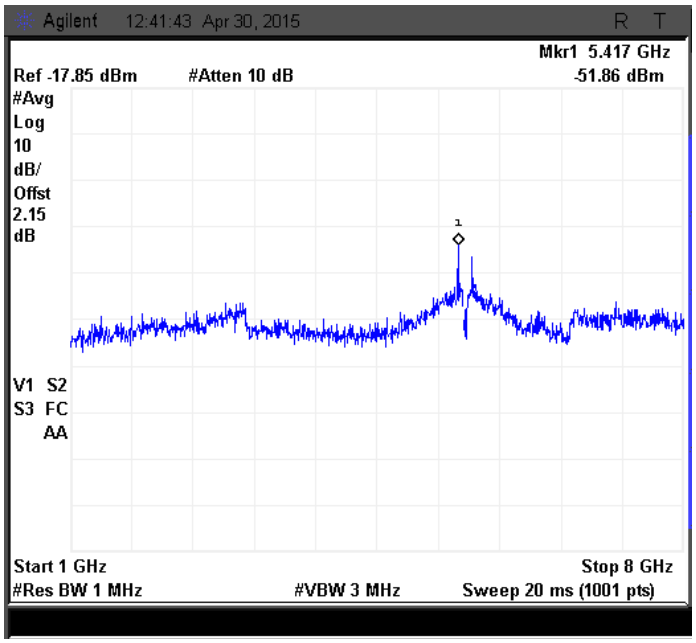

Figure 403: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

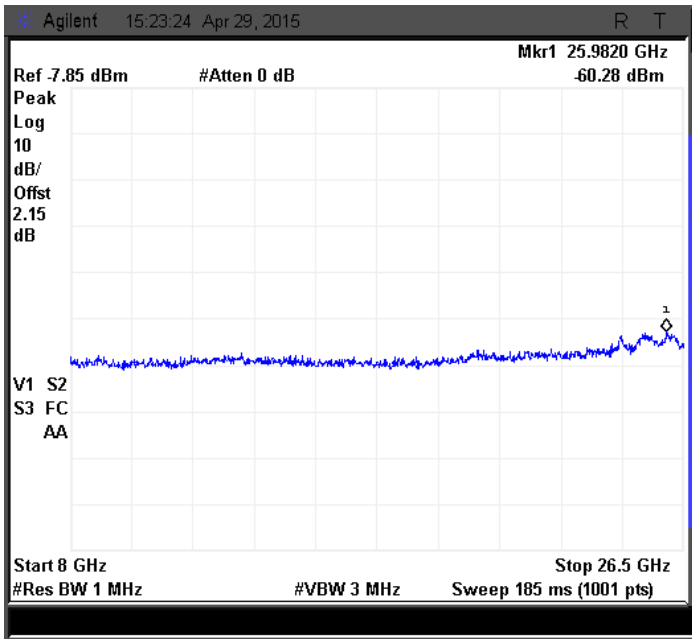

Figure 404: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

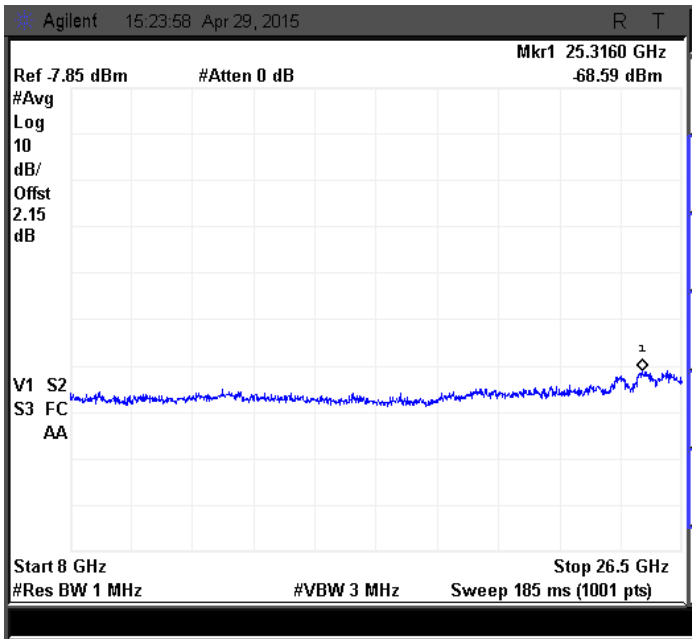

Figure 405: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

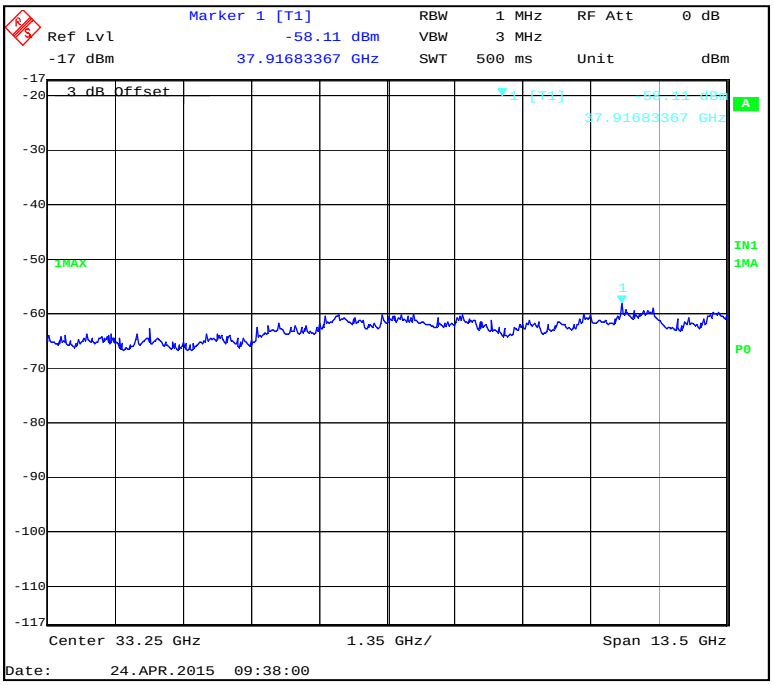

Figure 406: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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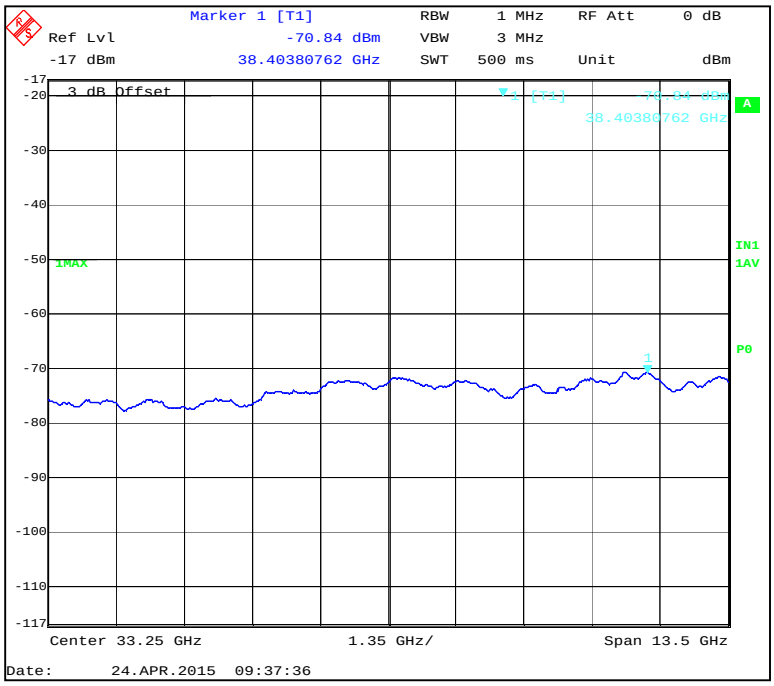

Figure 407: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

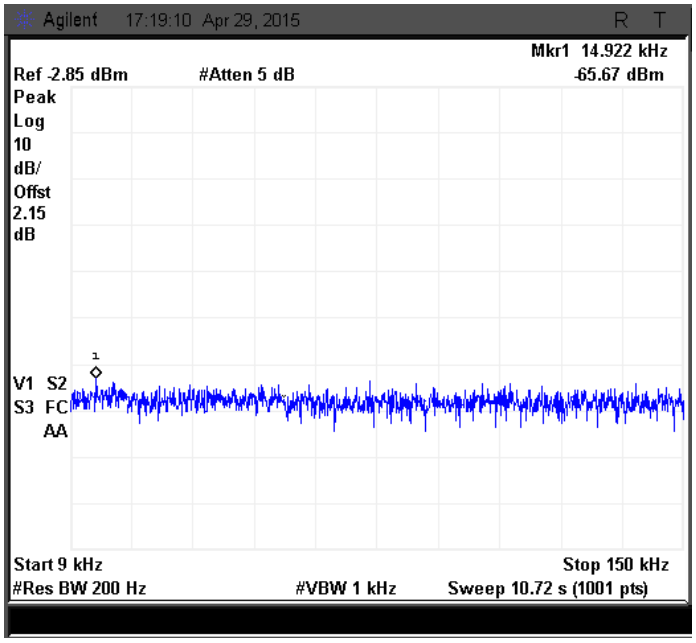

Figure 408: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

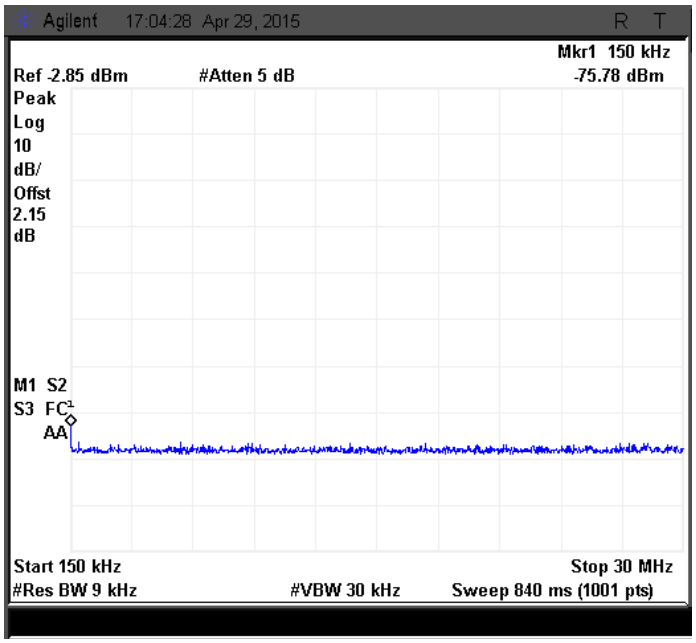

Figure 409: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

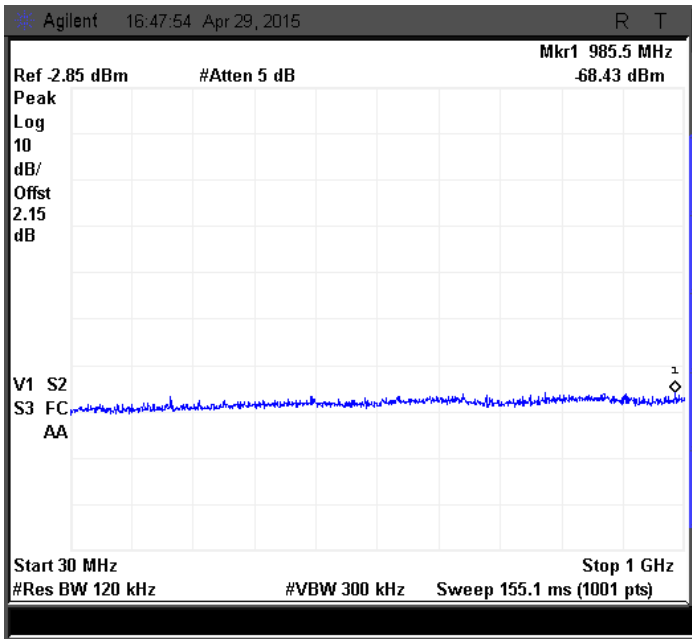

Figure 410: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

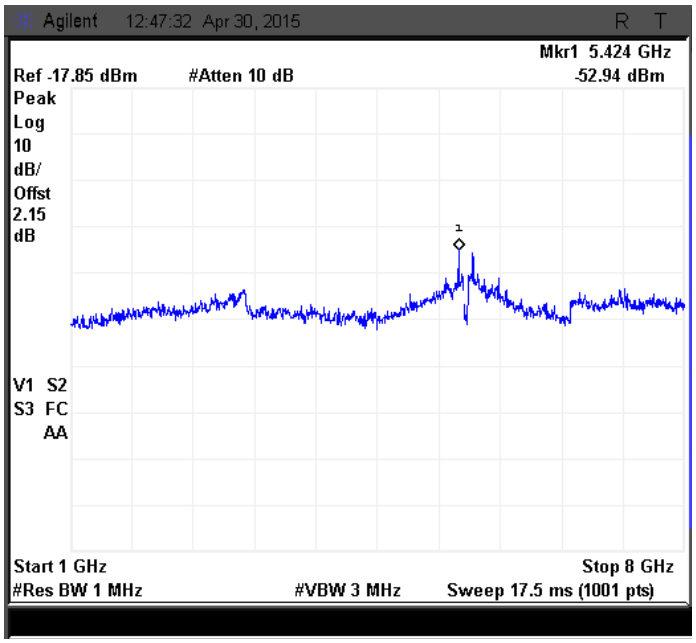

Figure 411: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

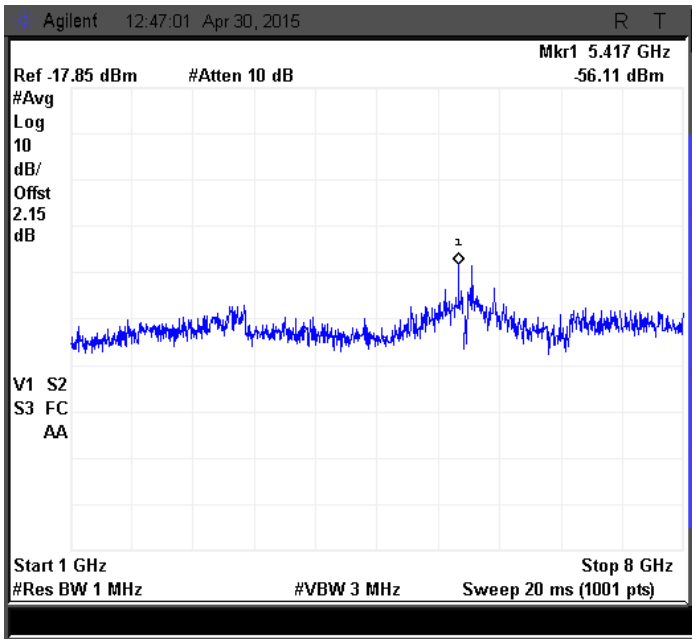

Figure 412: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

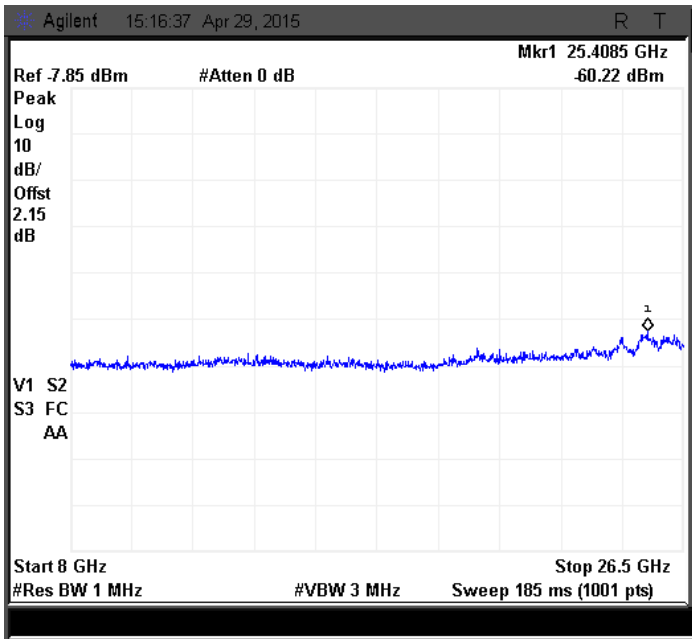

Figure 413: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

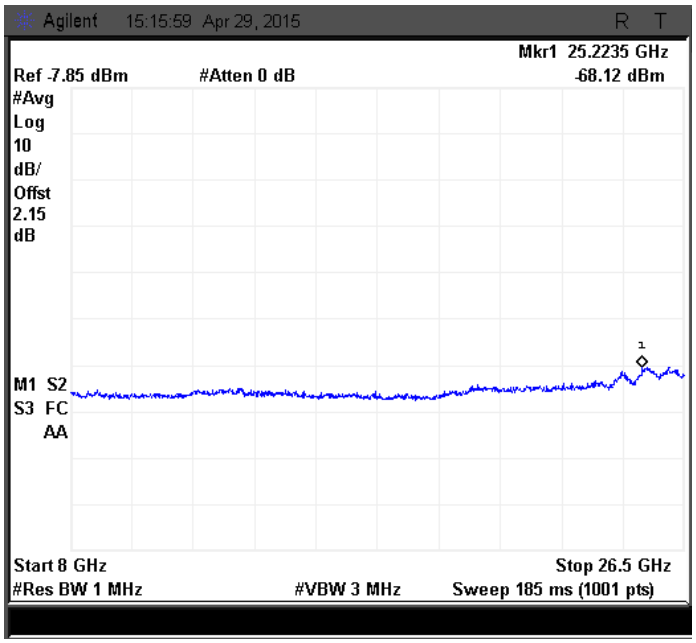

Figure 414: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

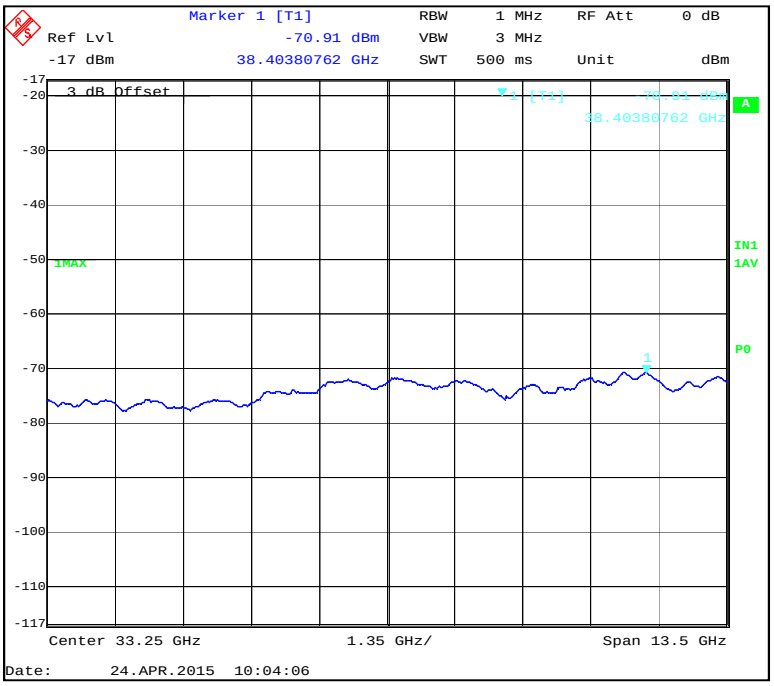

Figure 415: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

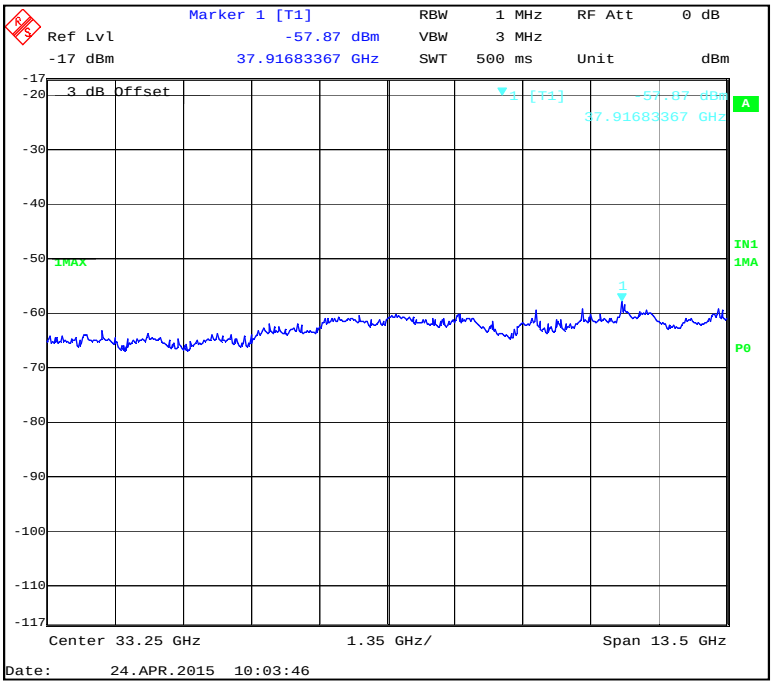

Figure 416: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.6.6 10MHz Modulation BW - High channel_5710MHz

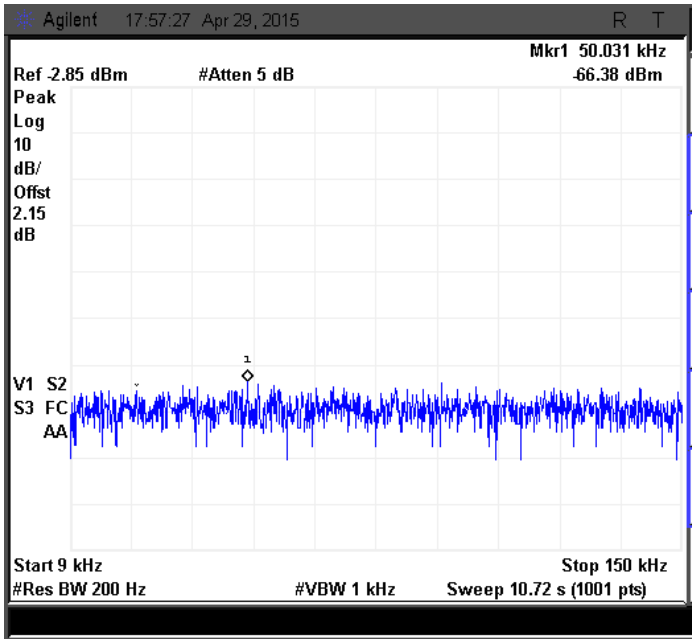

Figure 417: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

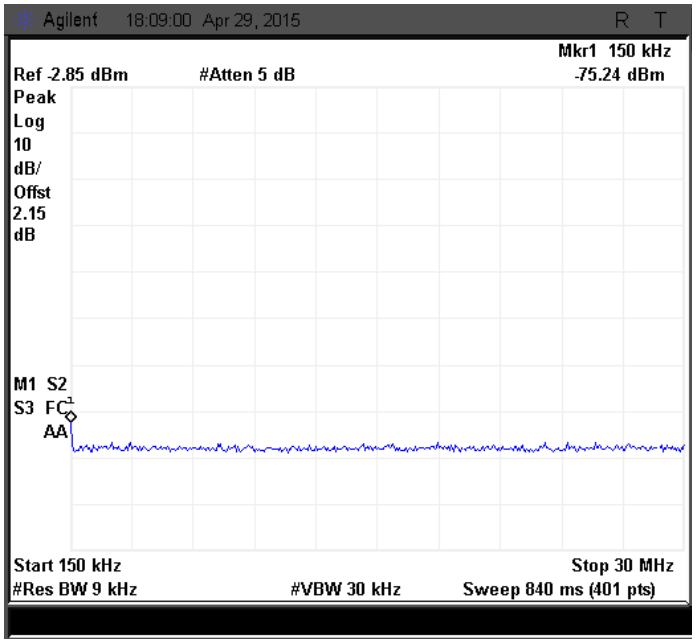

Figure 418: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

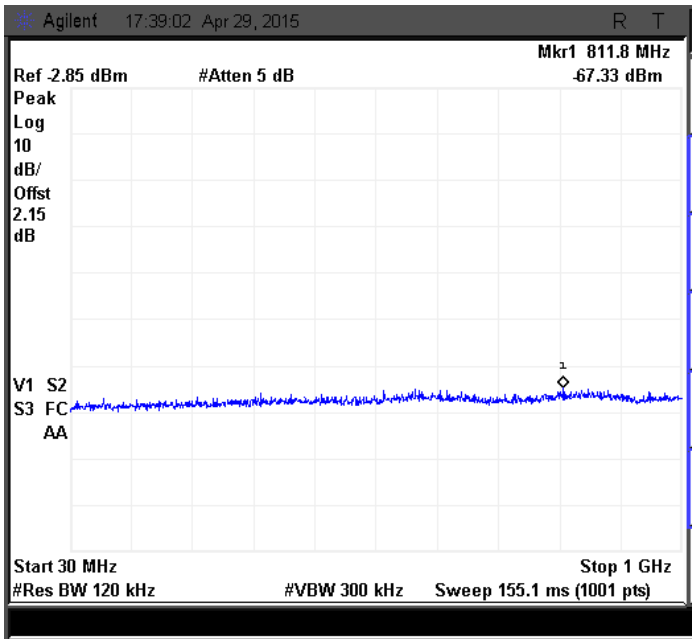

Figure 419: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

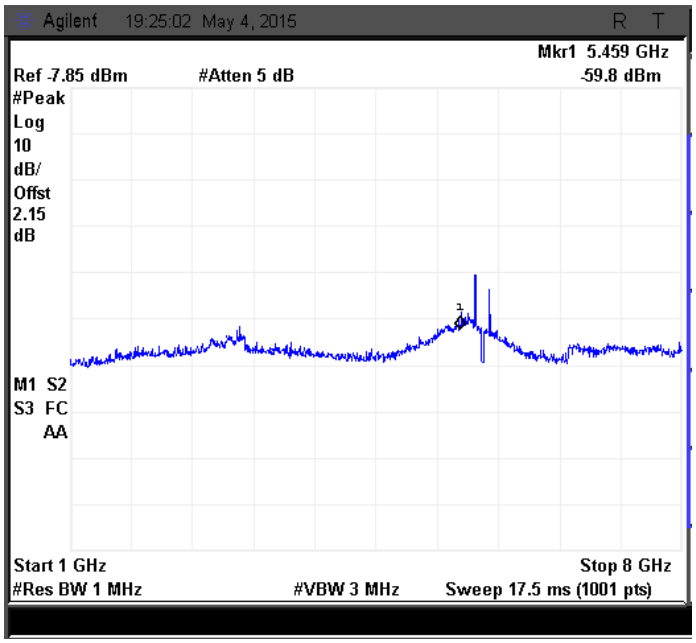

Figure 420: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

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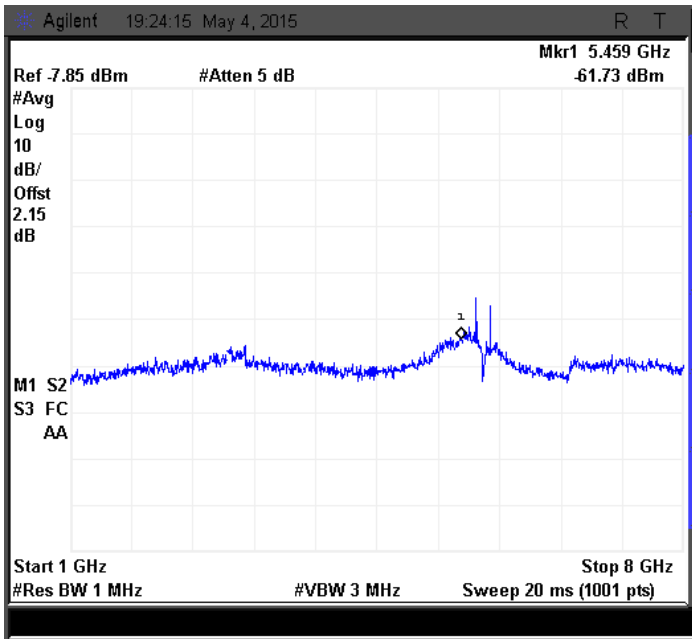

Figure 421: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

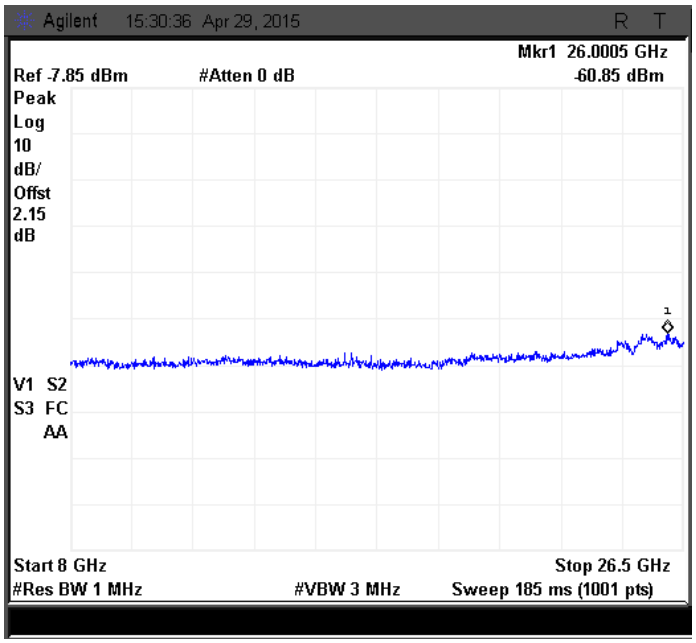

Figure 422: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

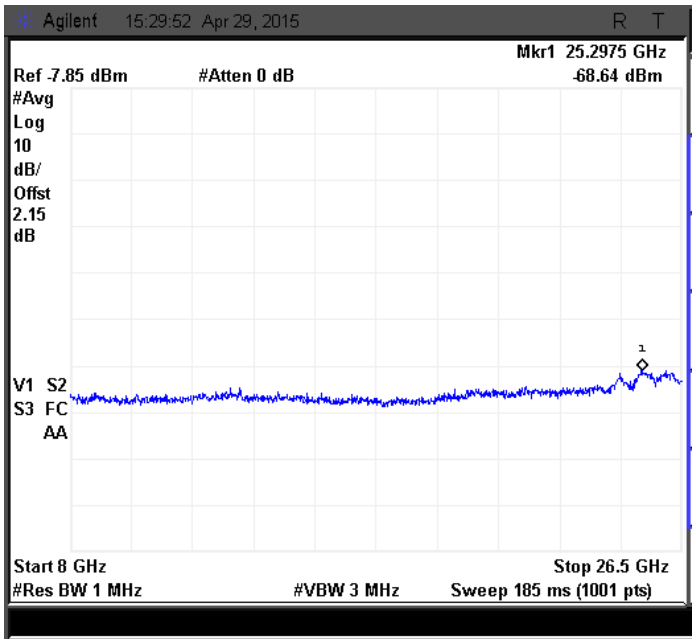

Figure 423: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

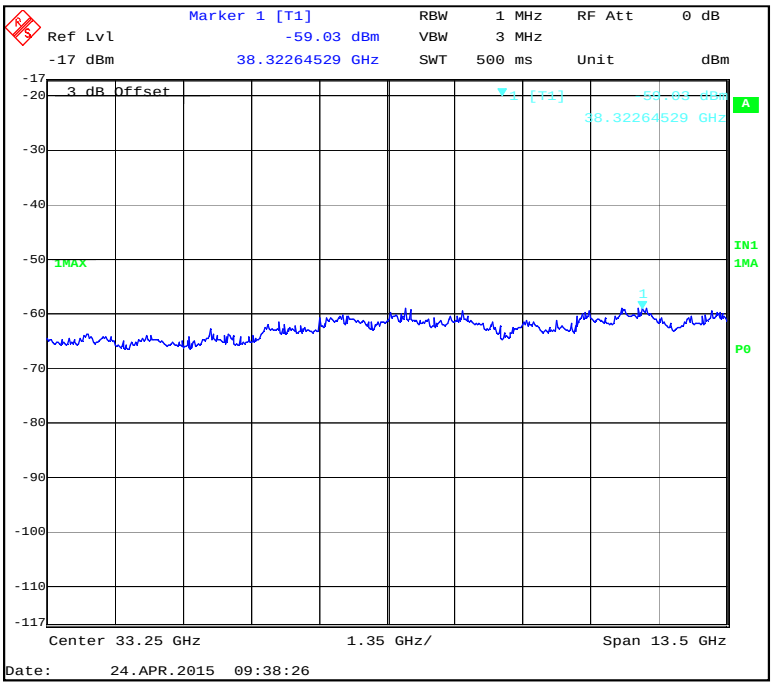

Figure 424: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

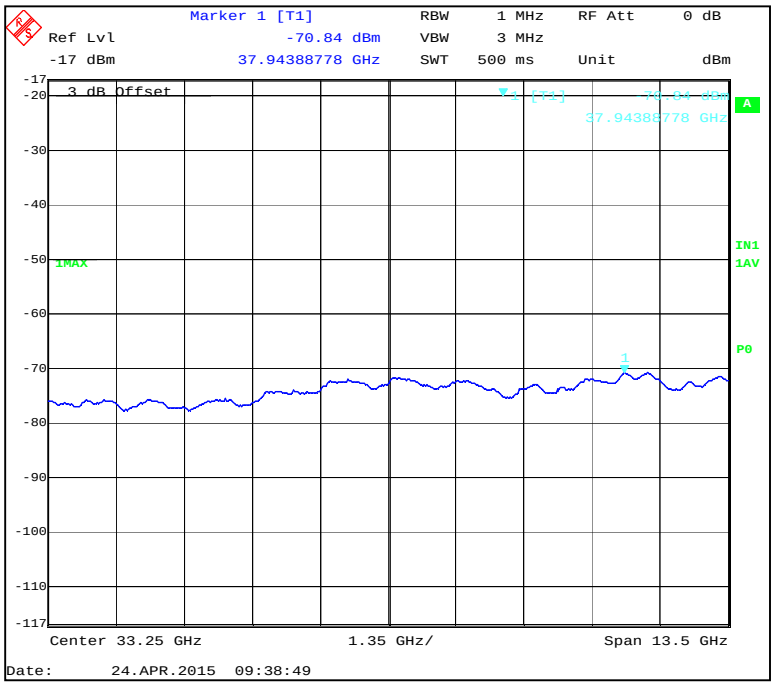

Figure 425: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

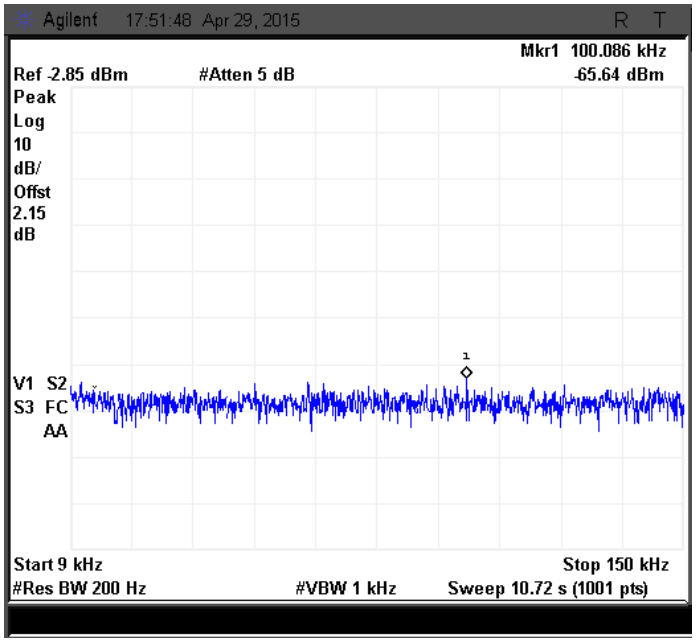

Figure 426: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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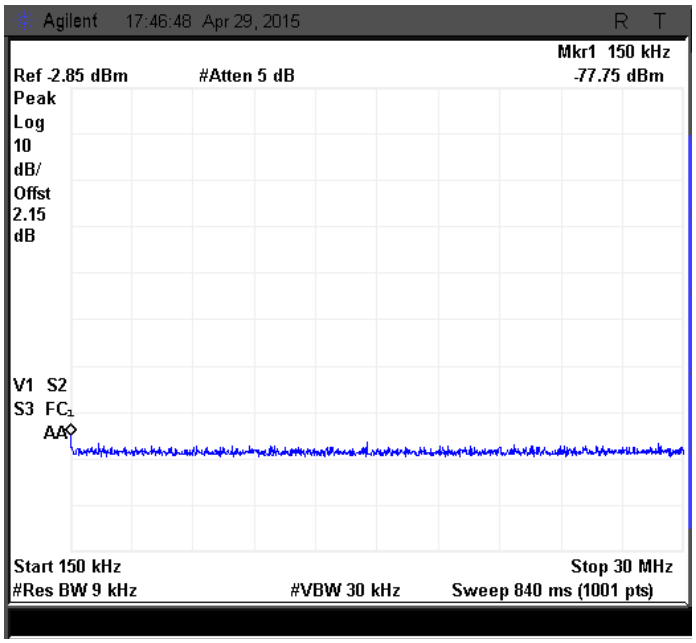

Figure 427: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

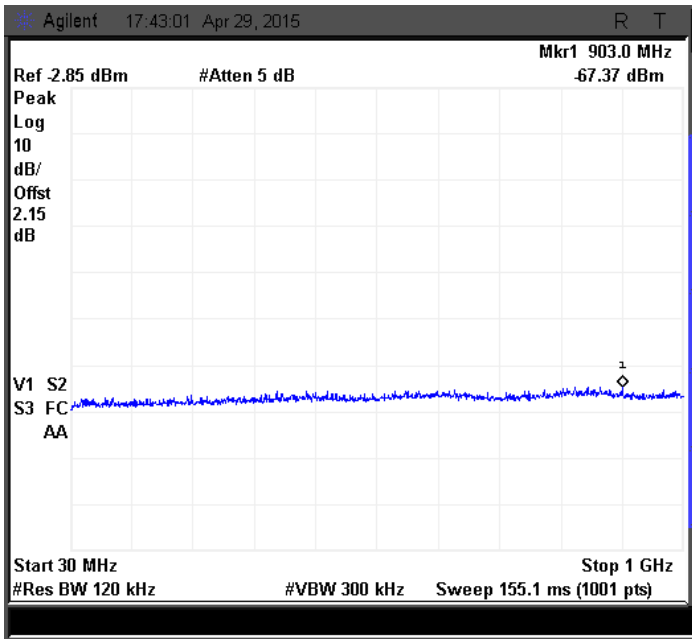

Figure 428: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

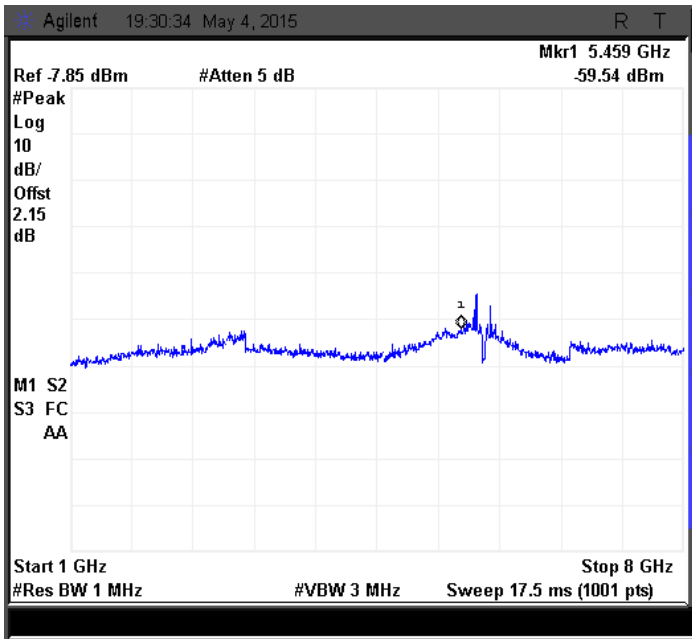

Figure 429: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

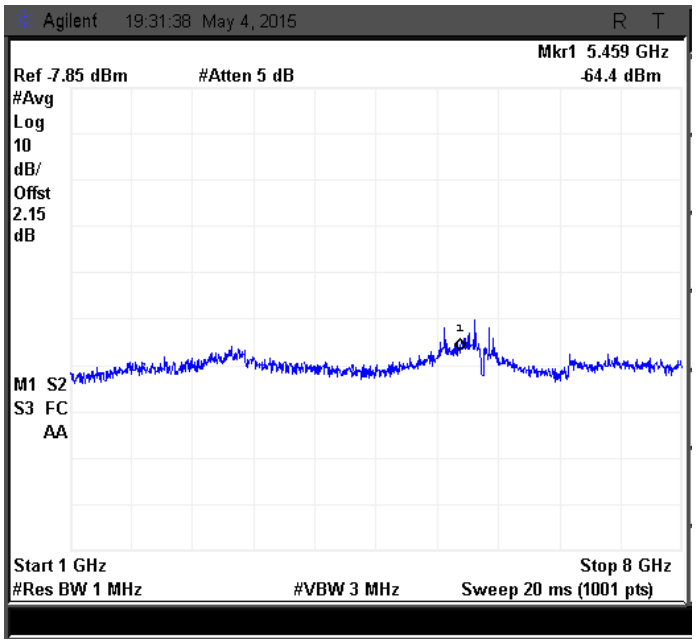

Figure 430: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

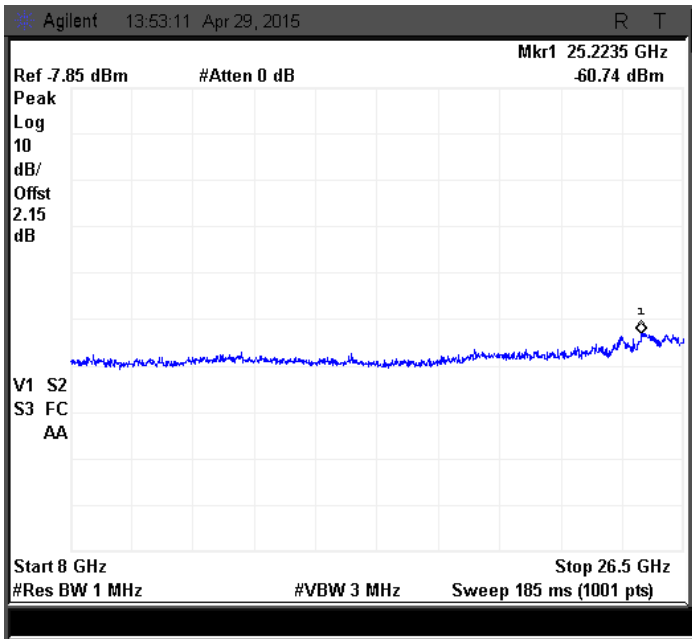

Figure 431: Spurious emission measured from 8 GHz to 26.50 GHz at Ch. 1-Peak

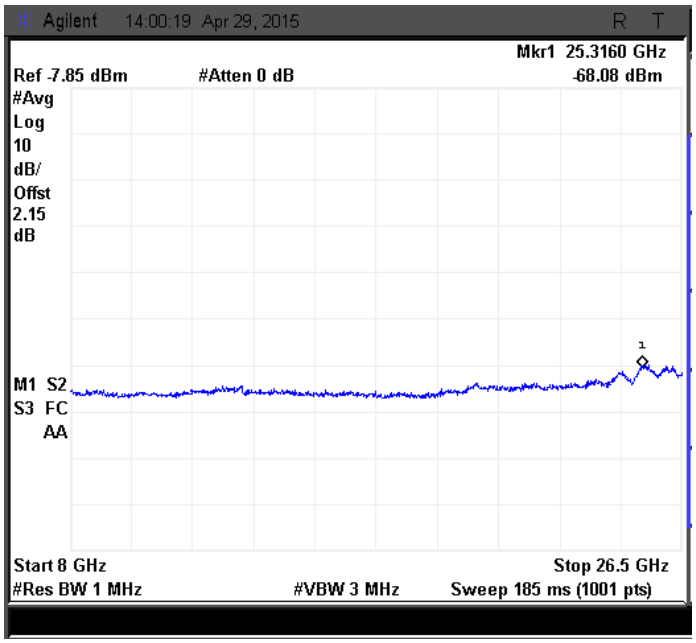

Figure 432: Spurious emission measured from 8 GHz to 26.50 GHz at Ch. 1-Average

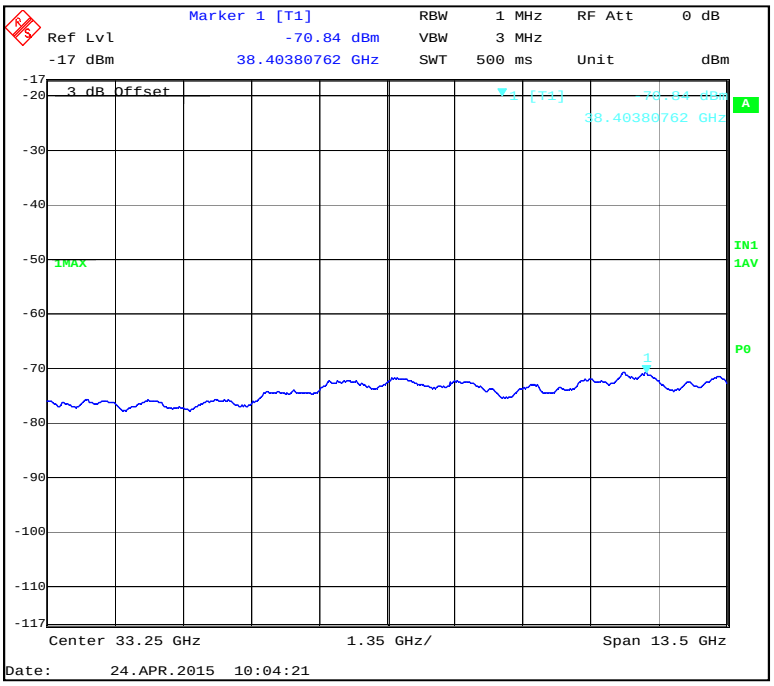

Figure 433: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

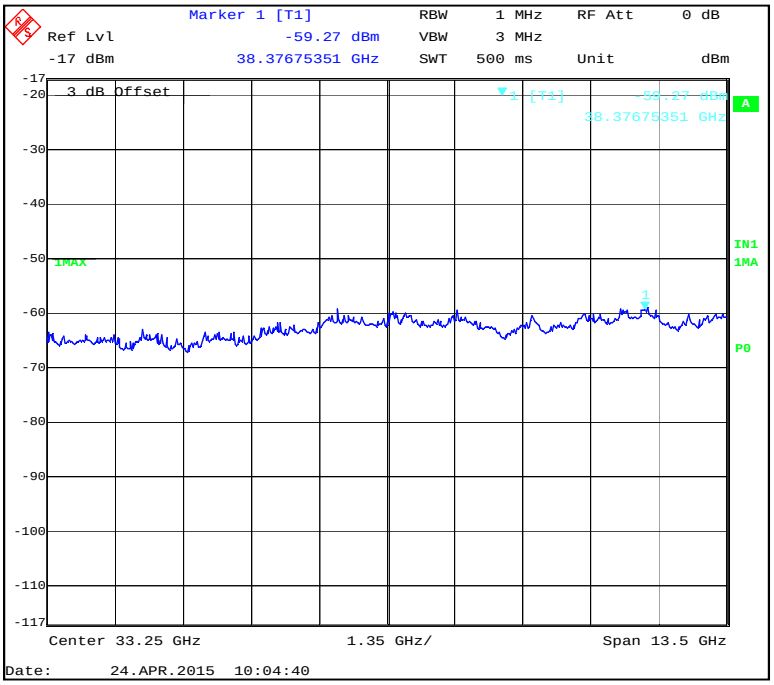

Figure 434: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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

5.3.7.7.1 40MHZ MODULATION BW - LOW CHANNEL_5495 MHZ

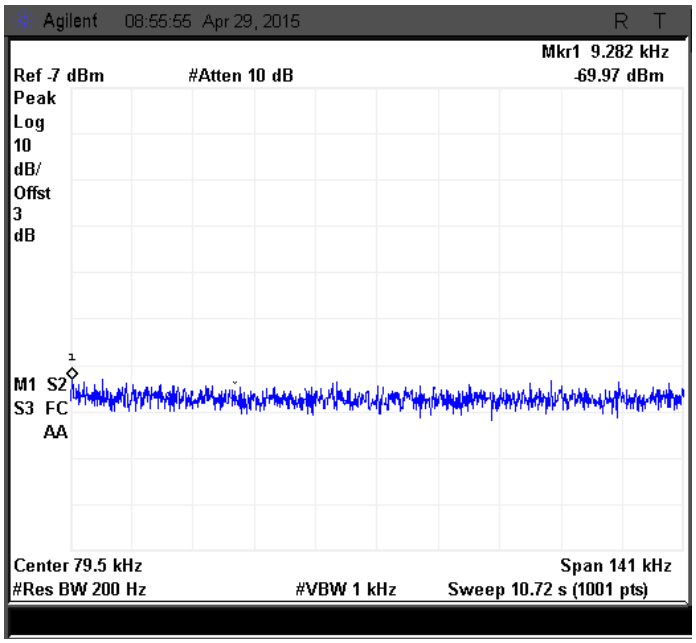

Figure 435: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

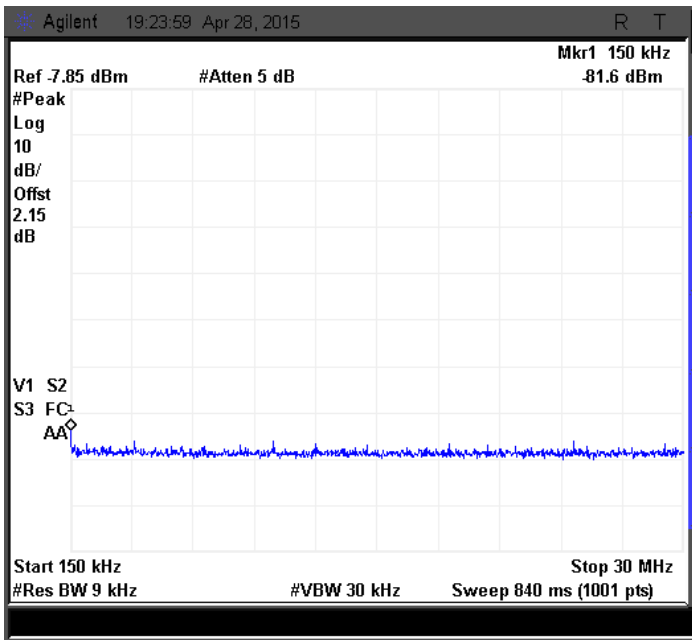

Figure 436: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

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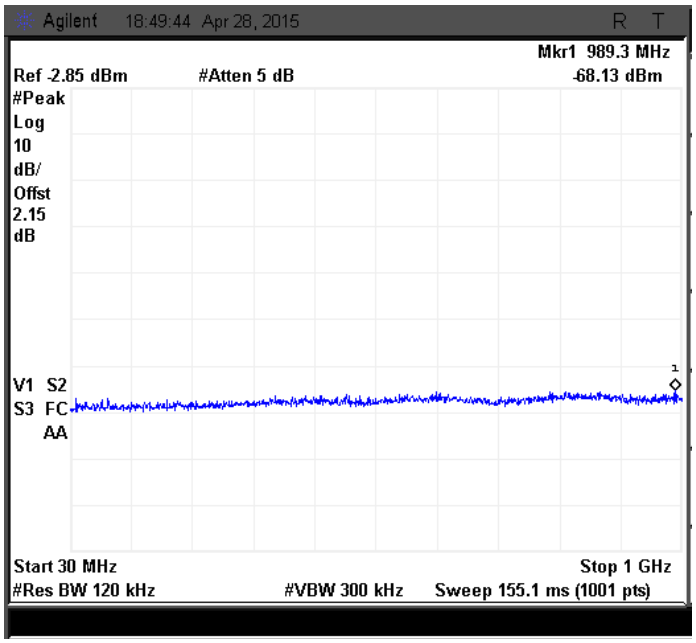

Figure 437: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

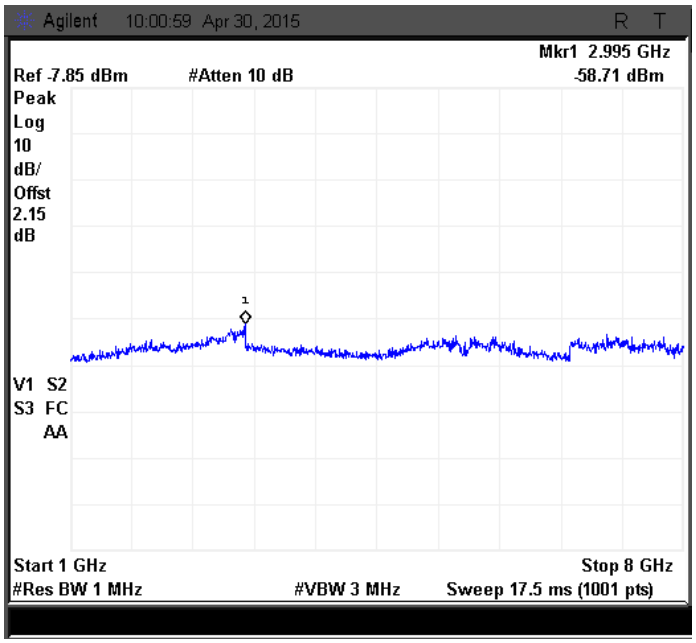

Figure 438: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

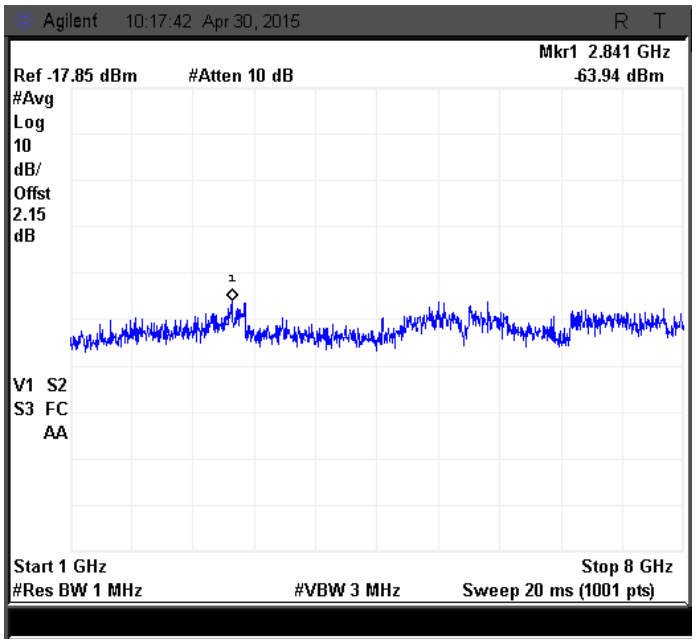

Figure 439: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

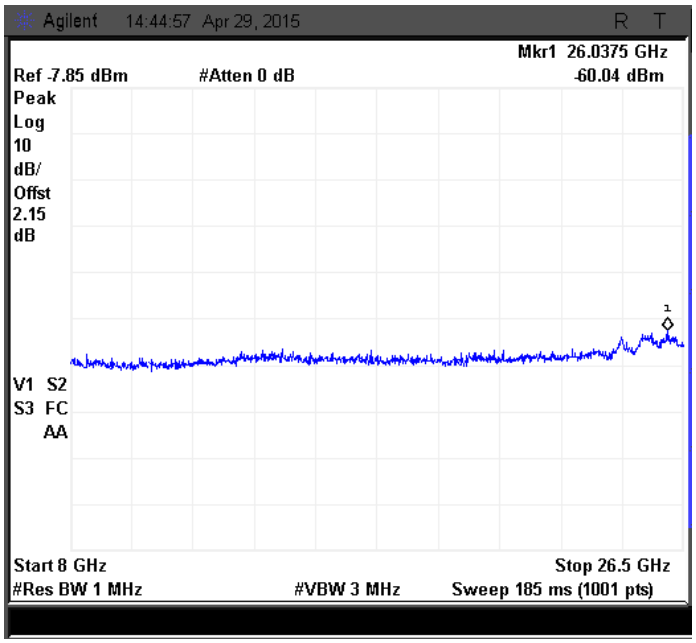

Figure 440: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

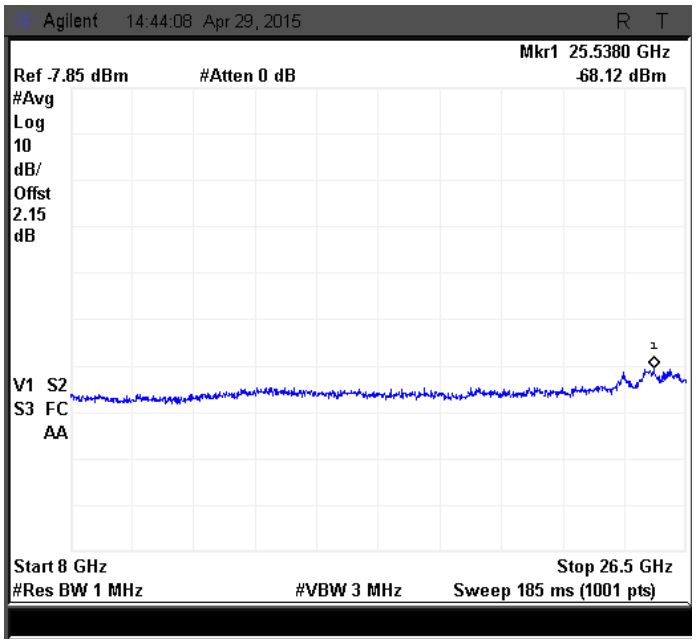

Figure 441: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

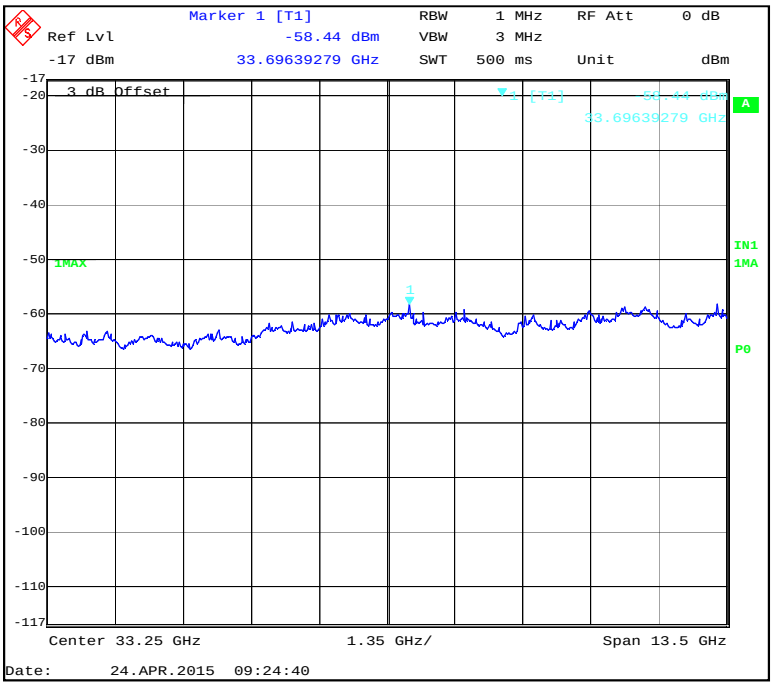

Figure 442: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

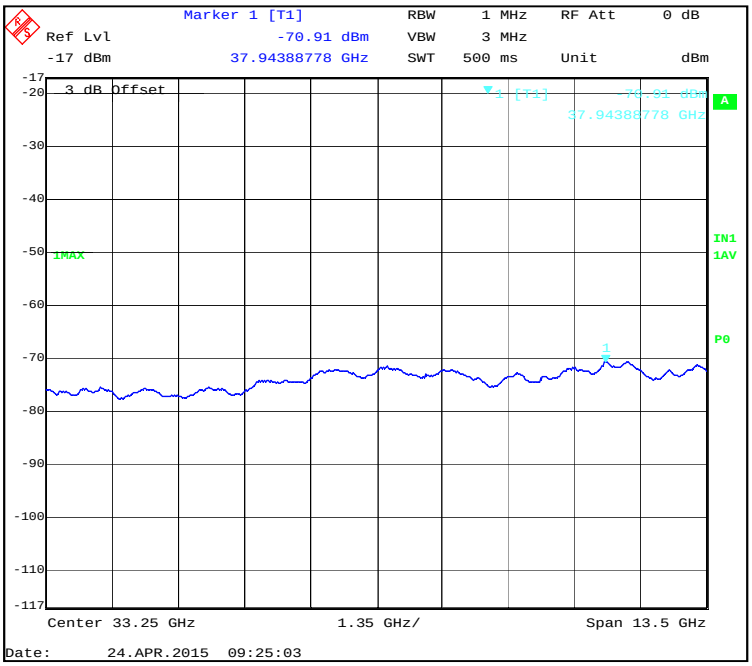

Figure 443: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Avg

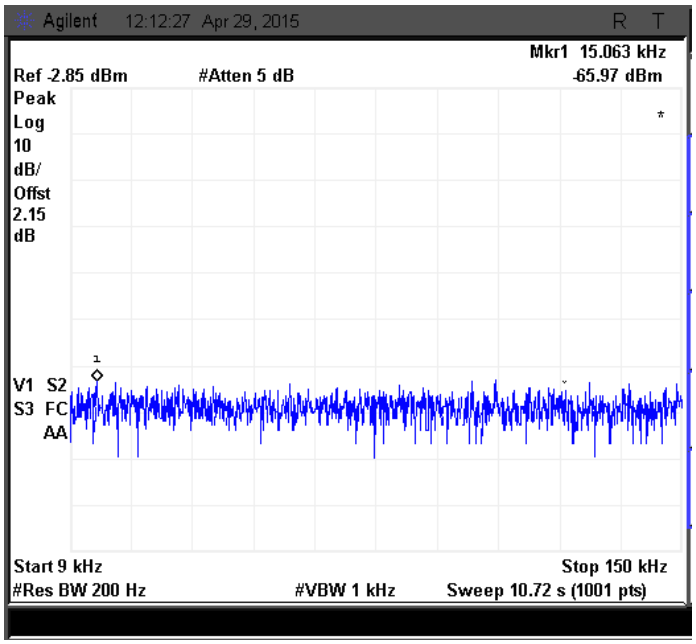

Figure 444: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

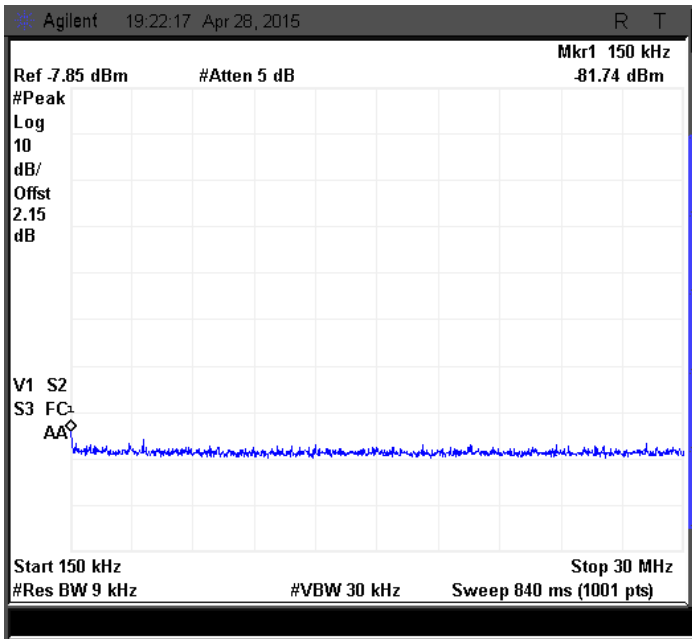

Figure 445: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

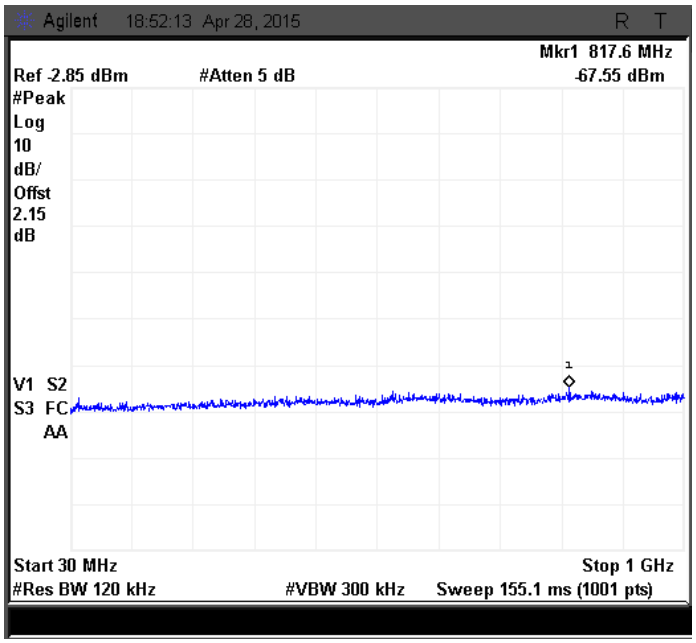

Figure 446: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

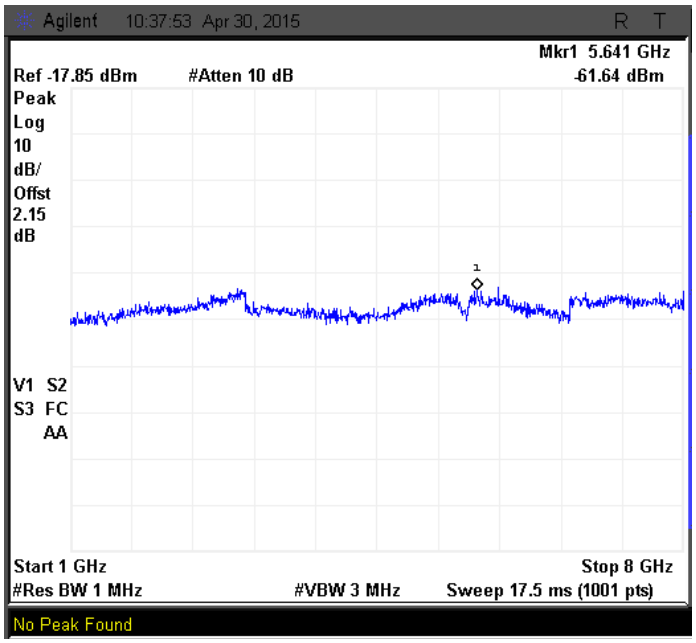

Figure 447: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

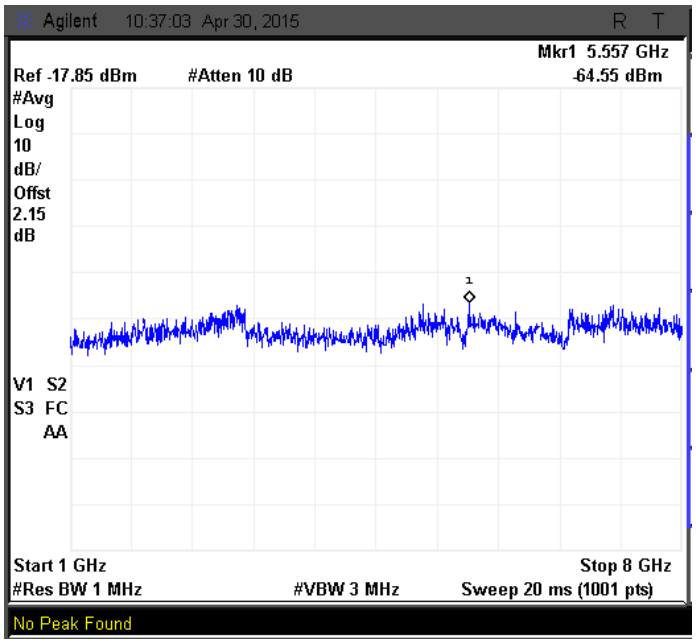

Figure 448: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

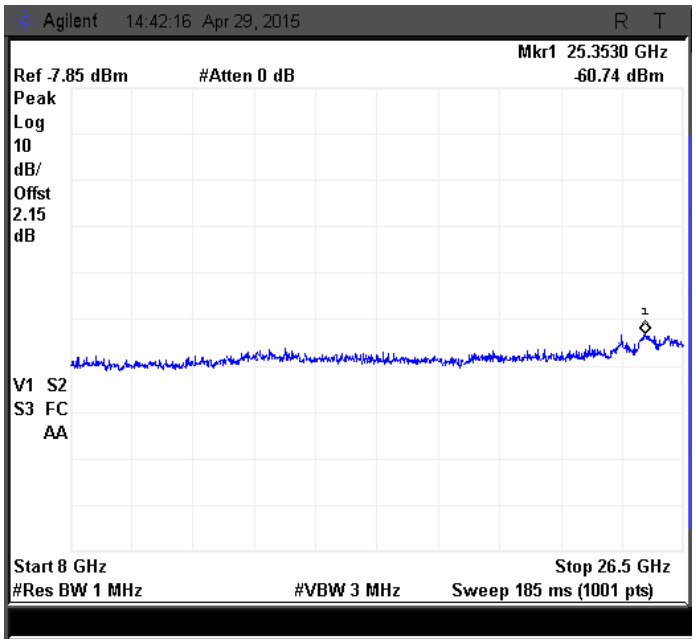

Figure 449: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

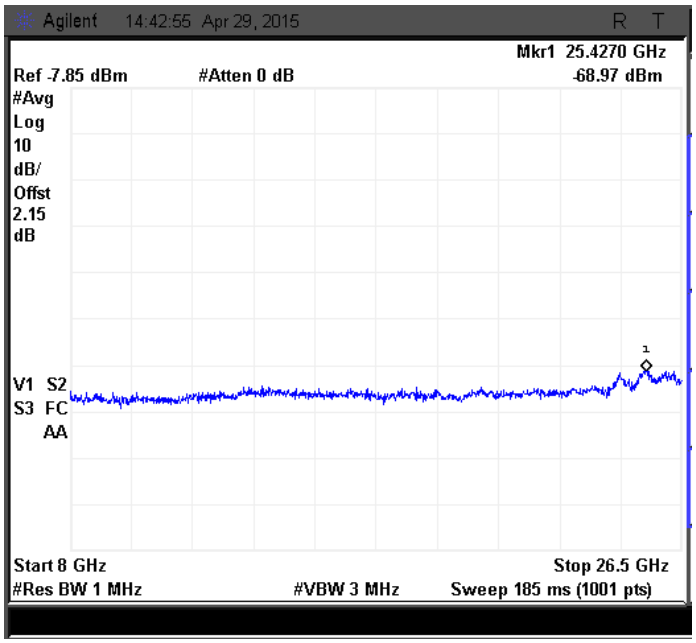

Figure 450: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

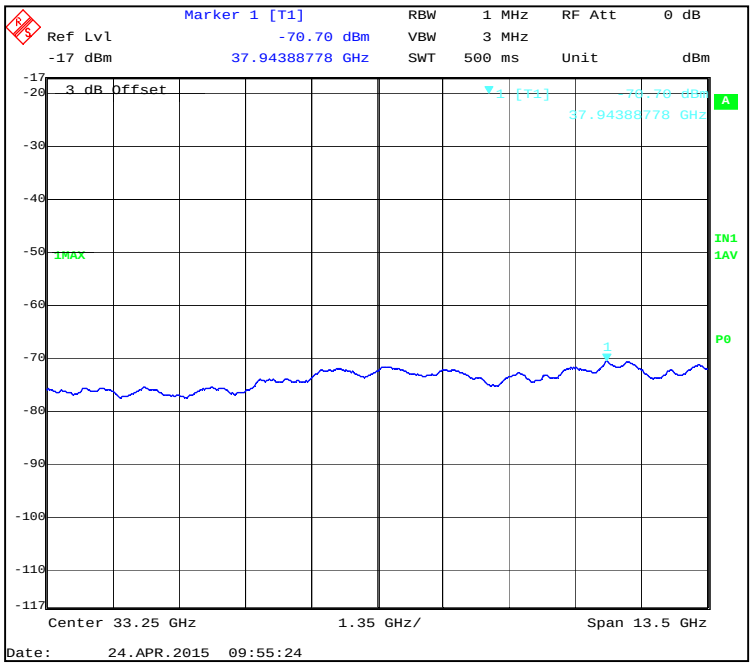

Figure 451: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

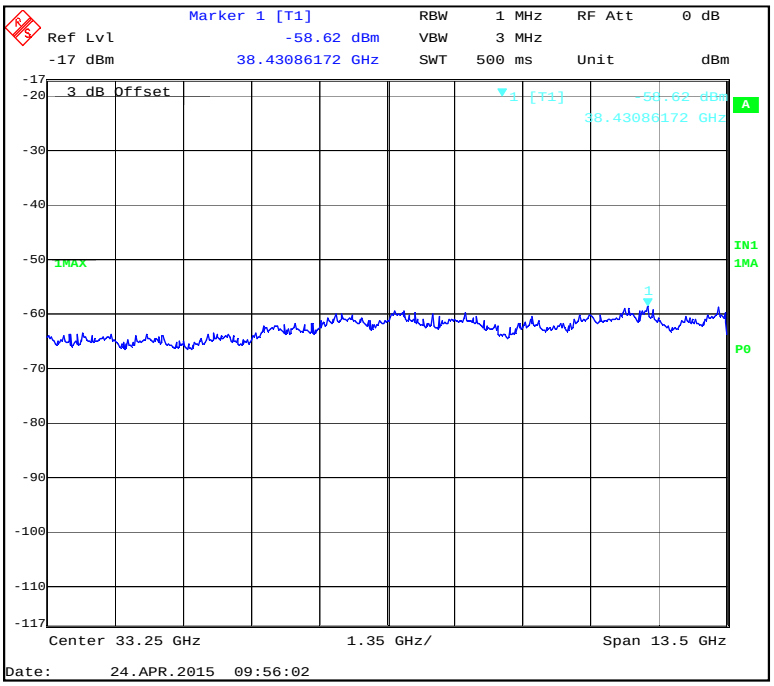

Figure 452: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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5.3.7.7.2 40MHz MODULATION BW - MID CHANNEL_5550 MHz

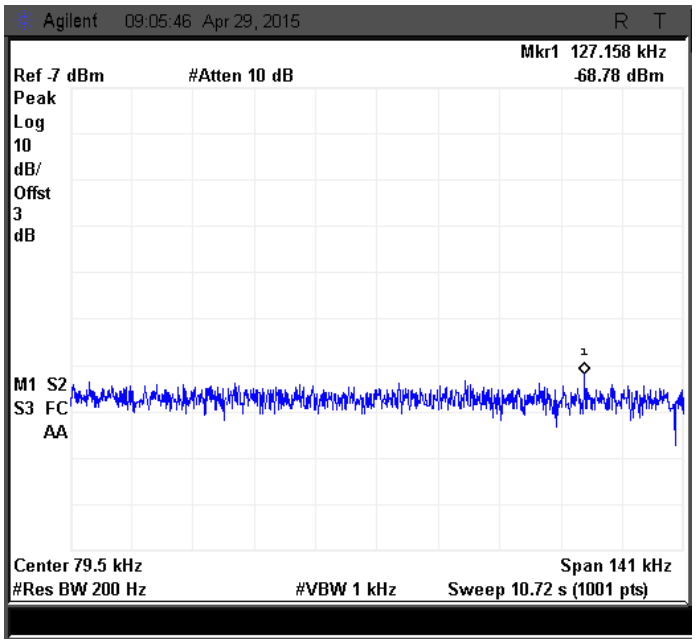

Figure 453: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

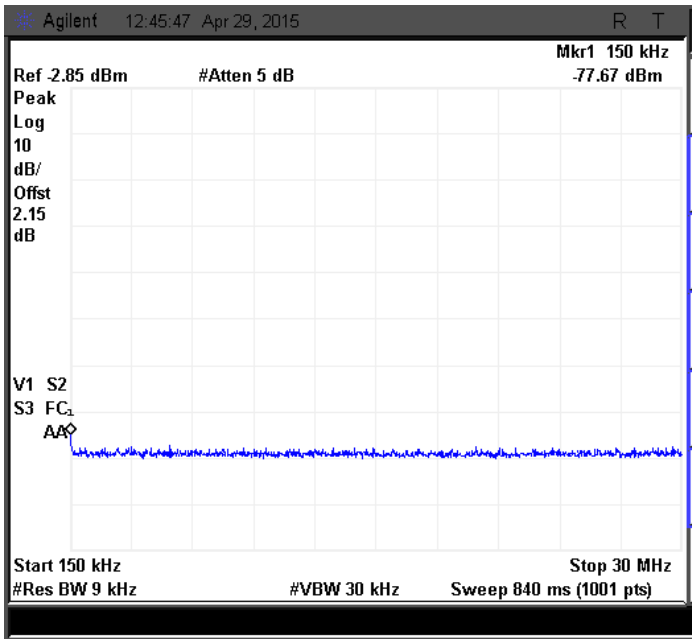

Figure 454: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

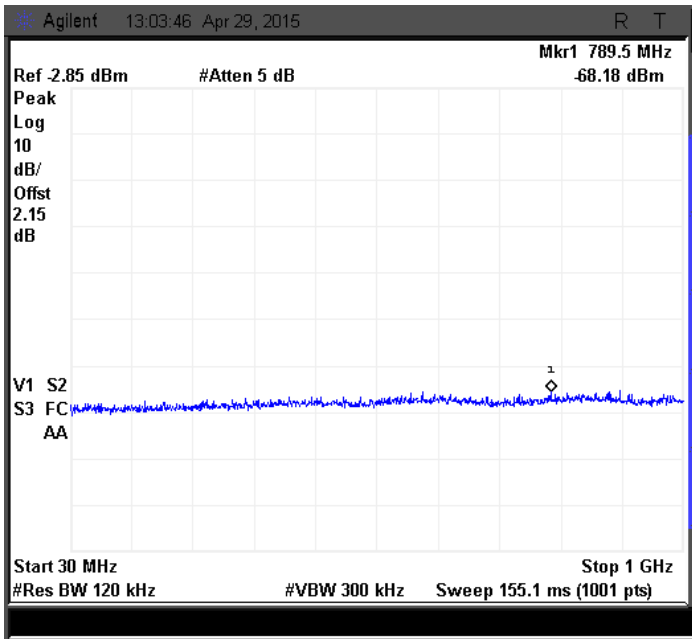

Figure 455: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

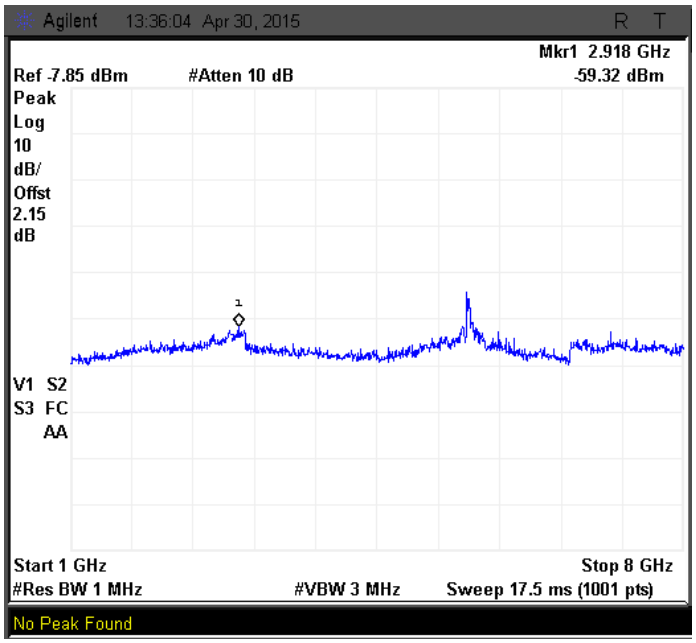

Figure 456: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

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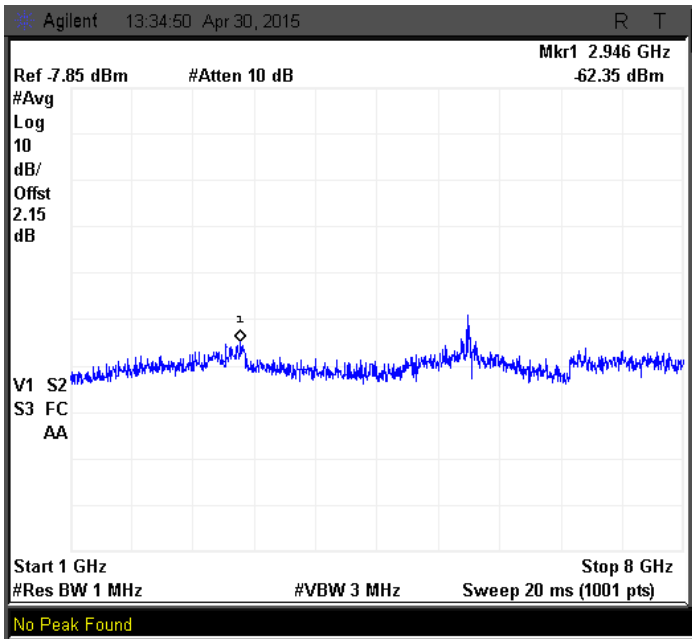

Figure 457: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

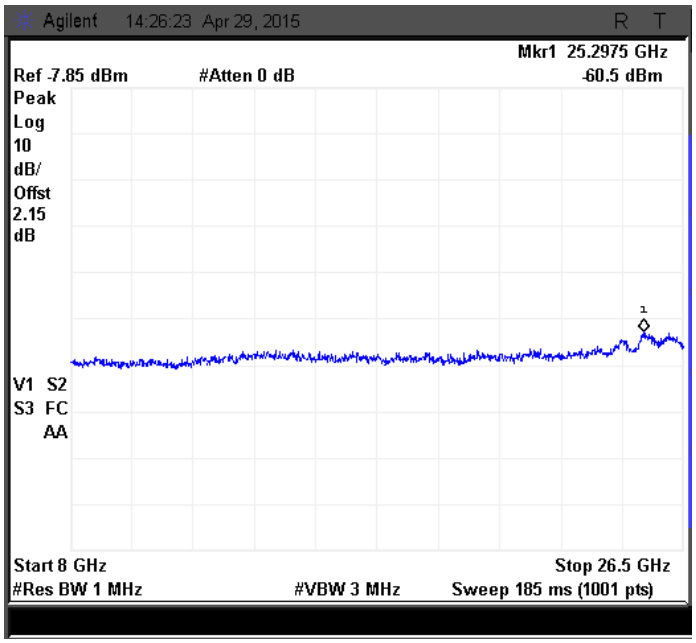

Figure 458: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

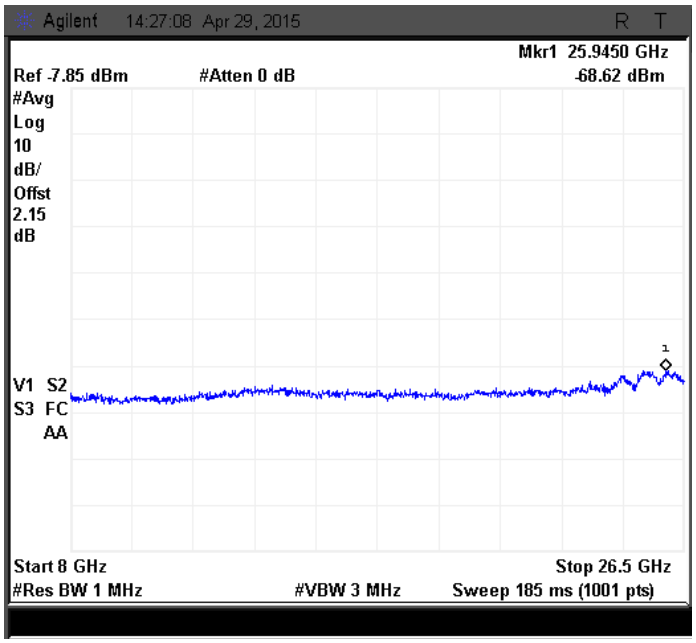

Figure 459: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

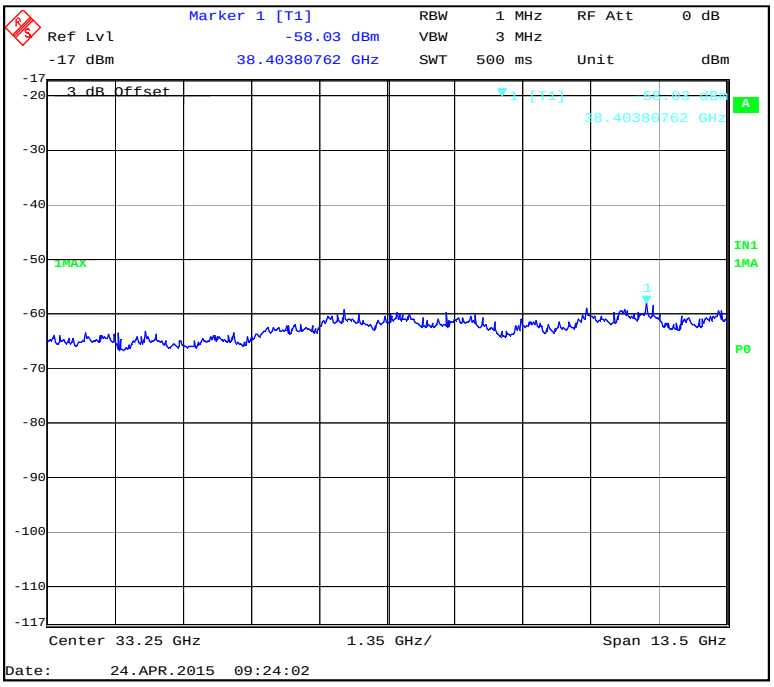

Figure 460: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

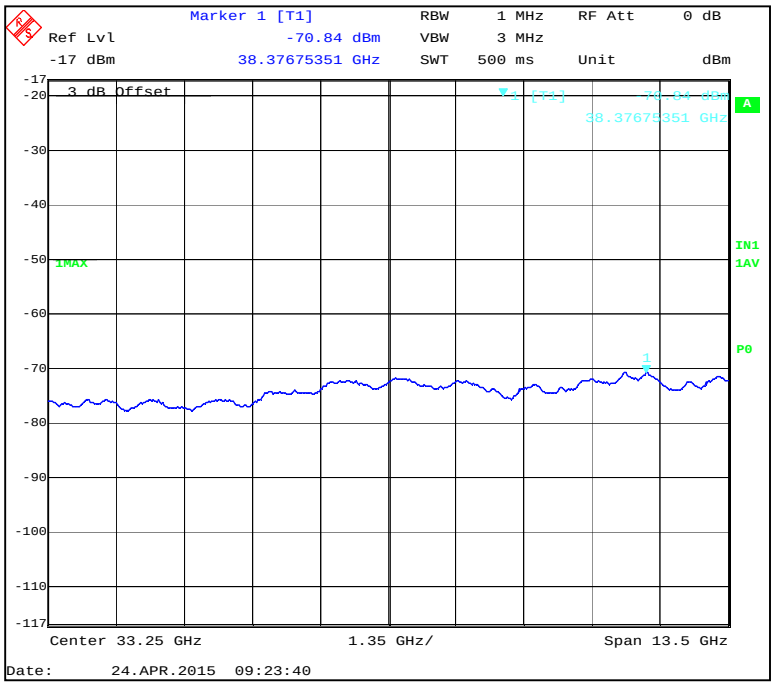

Figure 461: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

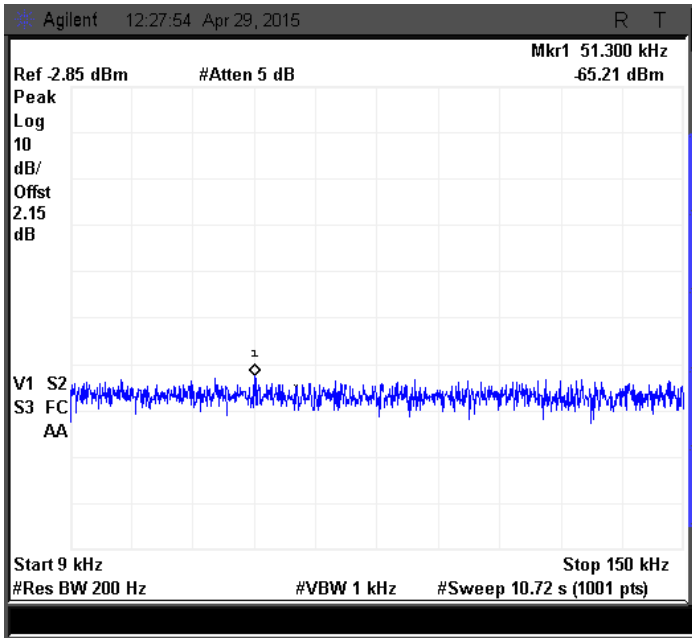

Figure 462: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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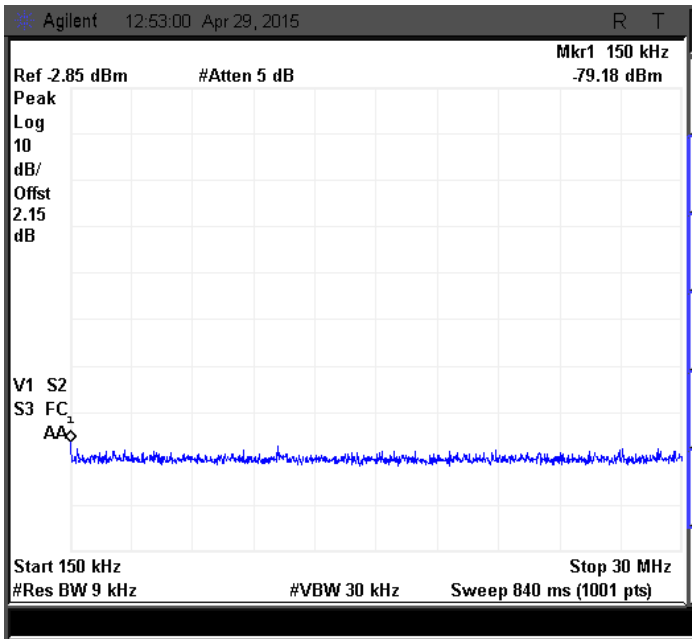

Figure 463: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

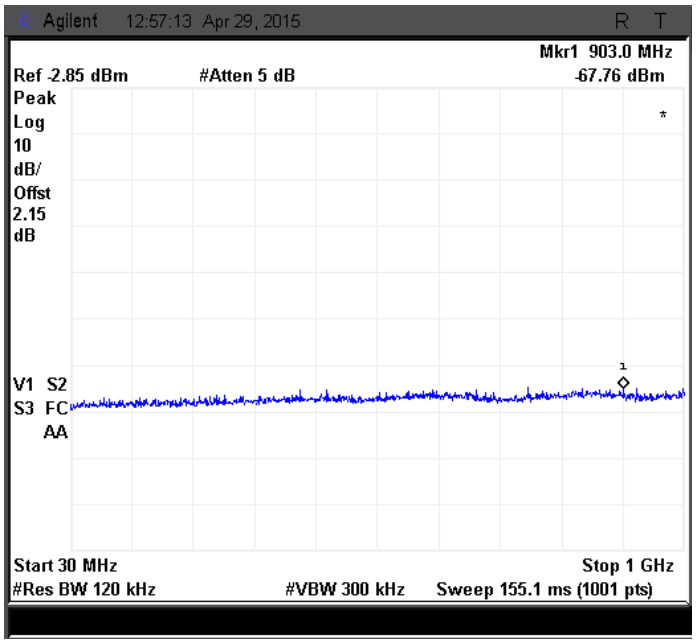

Figure 464: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

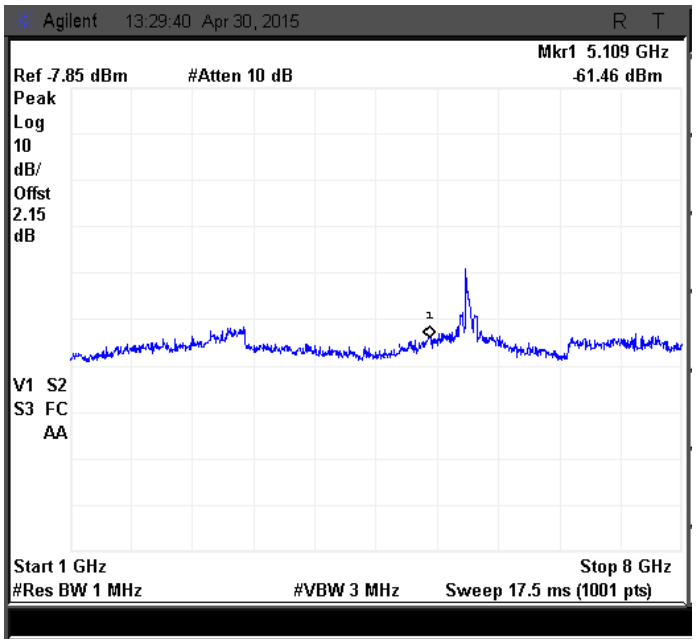

Figure 465: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

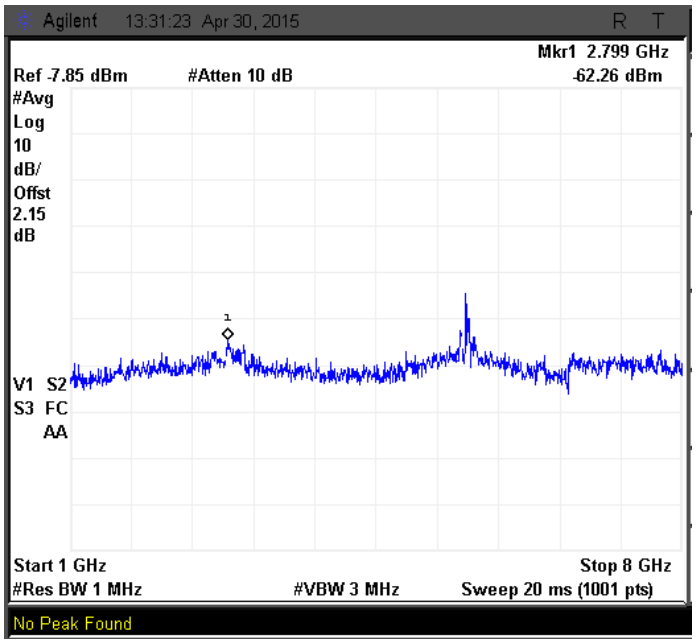

Figure 466: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

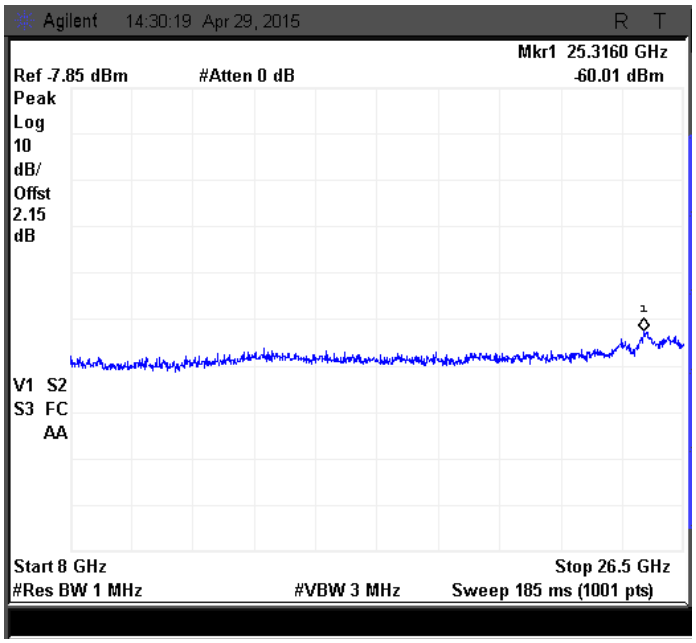

Figure 467: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

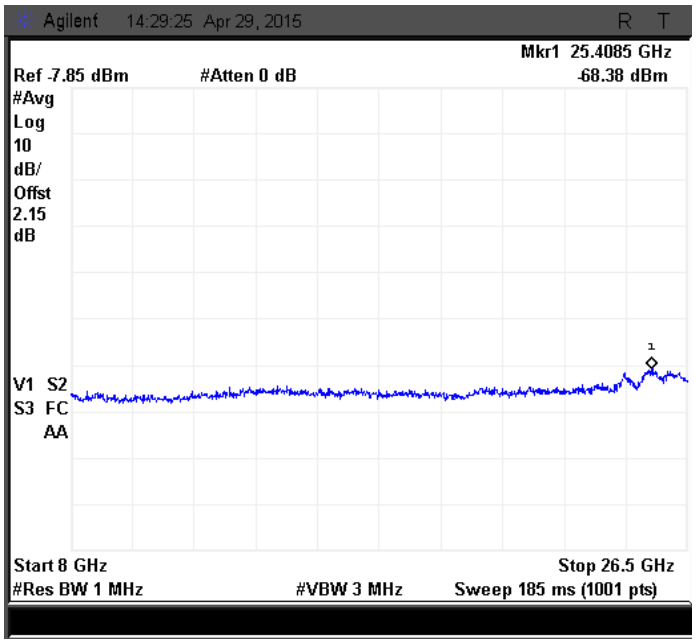

Figure 468: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

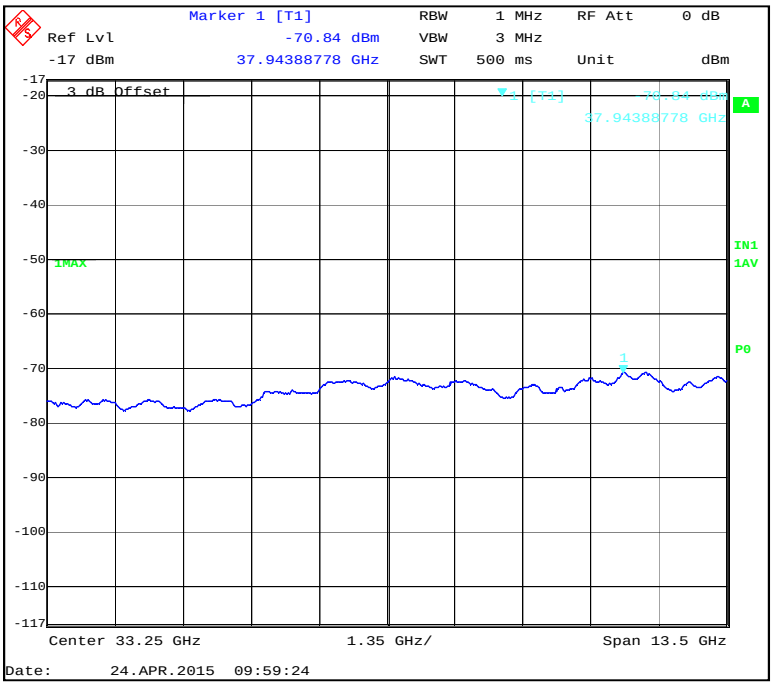

Figure 469: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

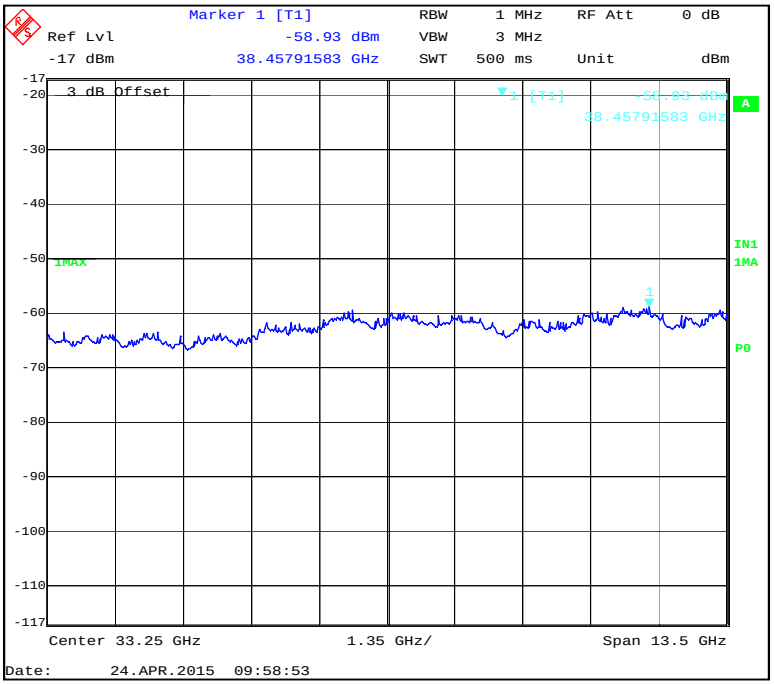

Figure 470: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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5.3.7.7.3 40MHz MODULATION BW - HIGH CHANNEL_5700MHz

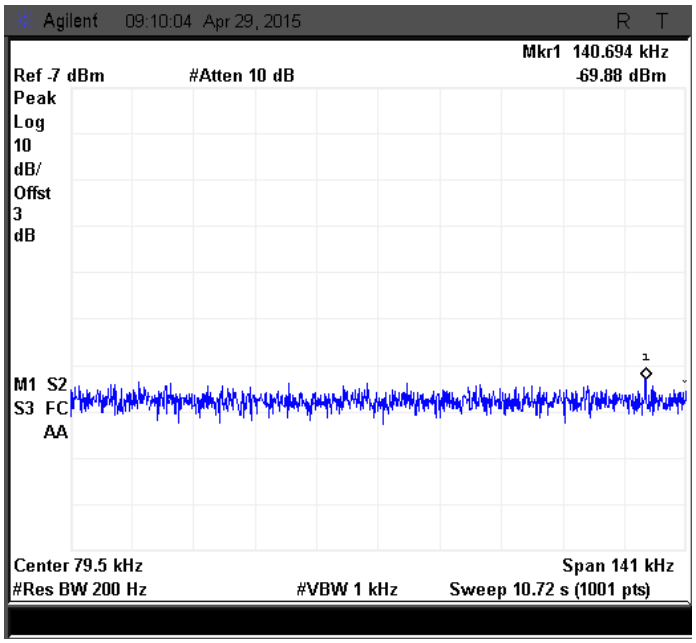

Figure 471: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

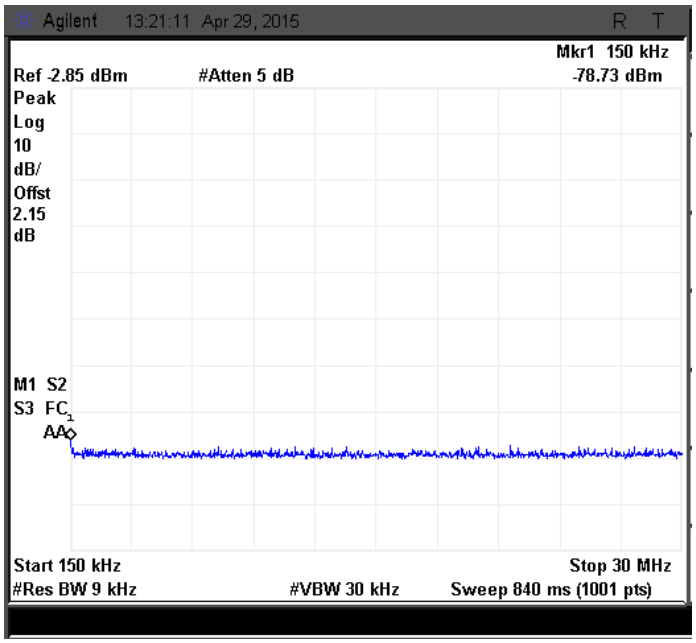

Figure 472: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

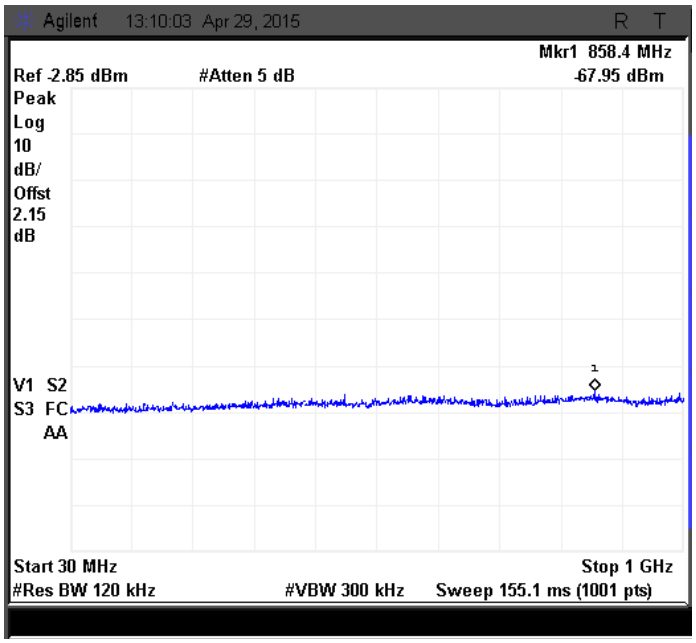

Figure 473: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

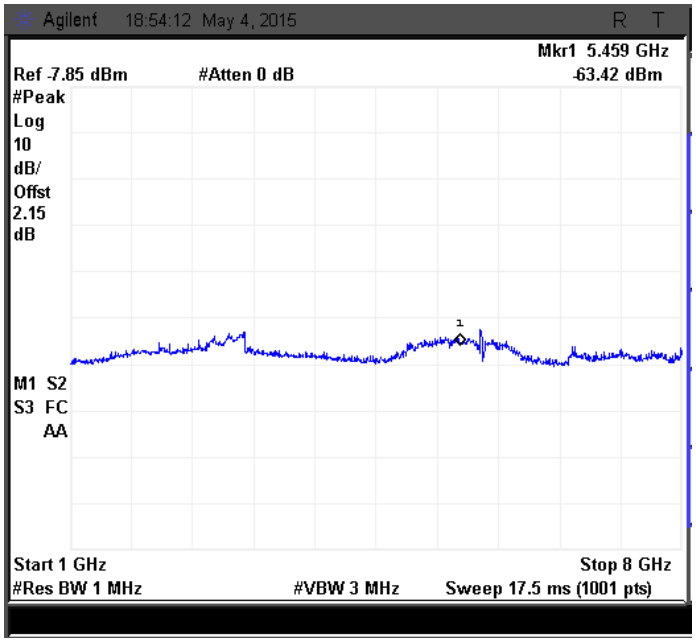

Figure 474: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

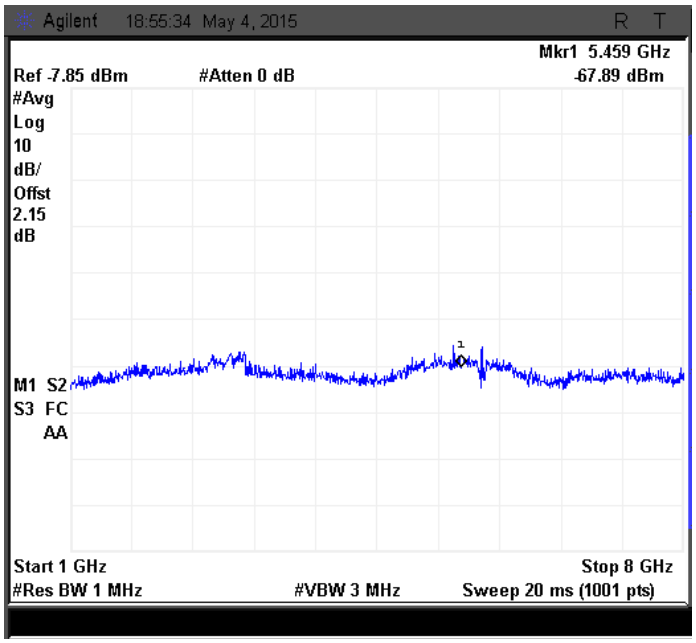

Figure 475: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

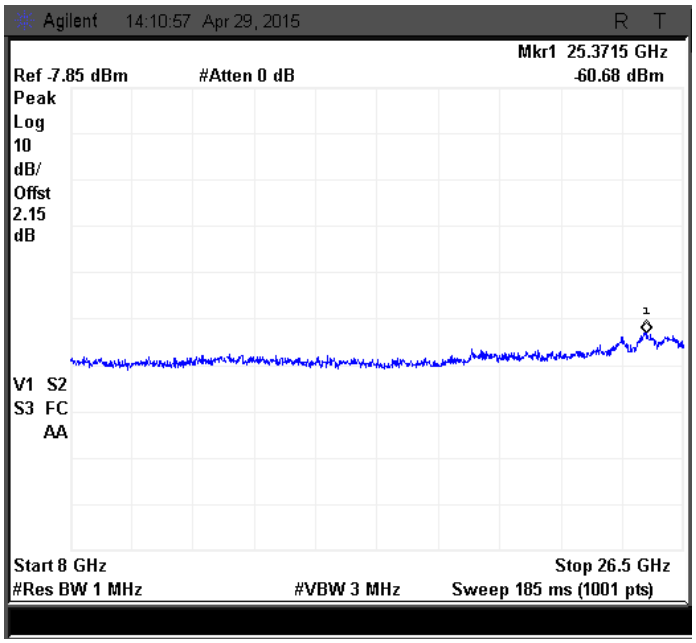

Figure 476 : Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

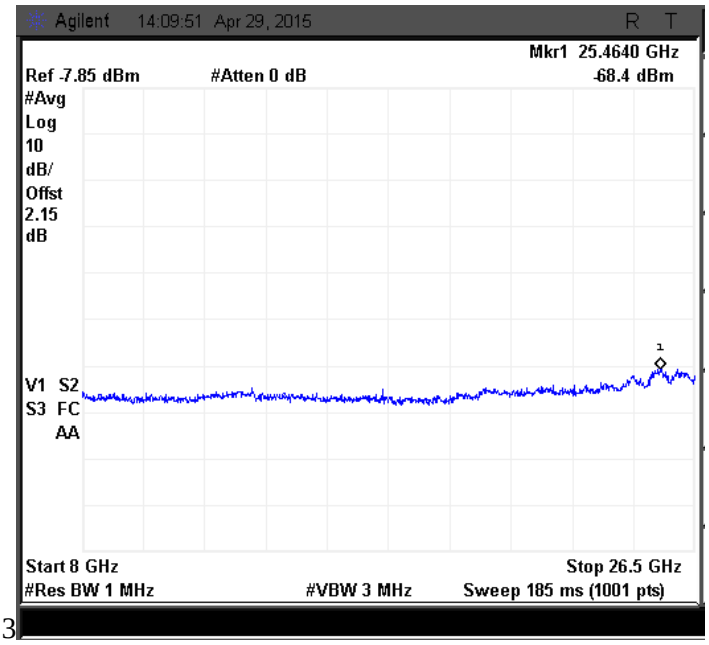

Figure 477: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

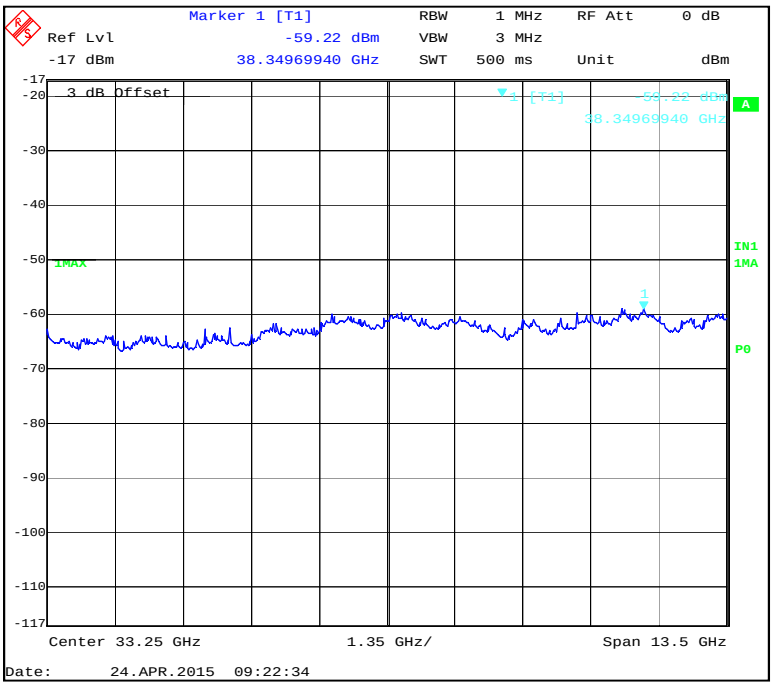

Figure 478: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

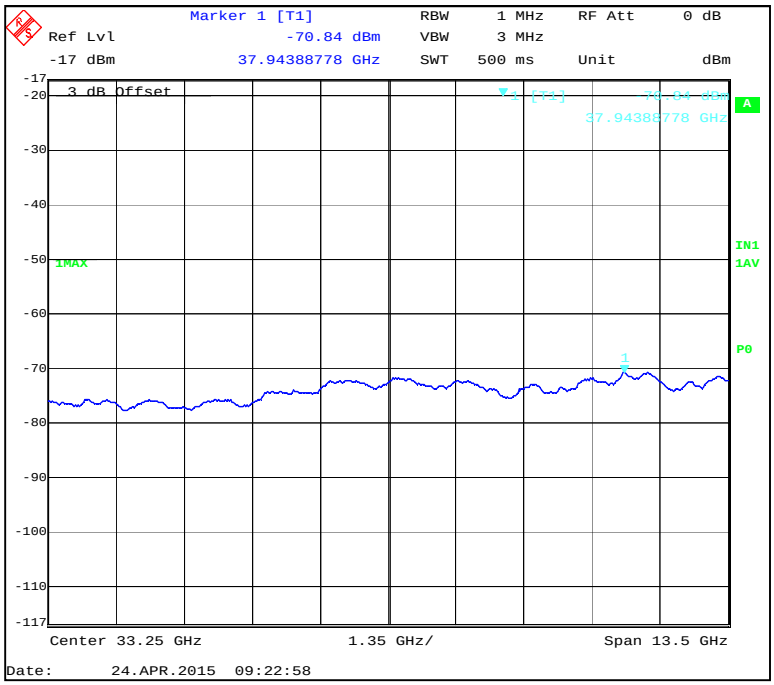

Figure 479: Spurious emission measured from 26.5GHz to 40 GHz at Ch. 0-Average

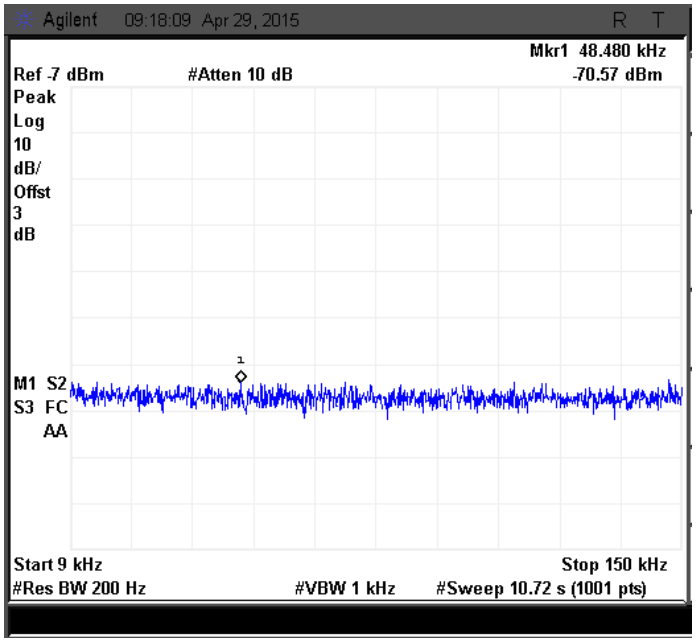

Figure 480: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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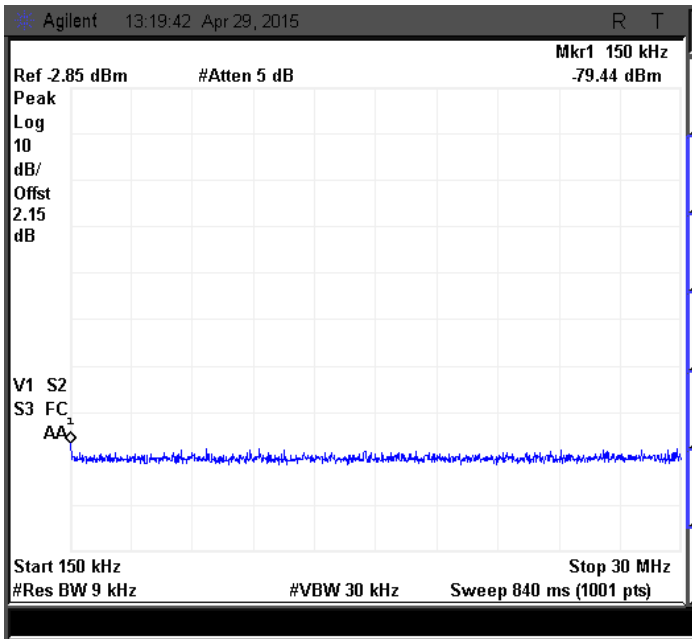

Figure 481: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

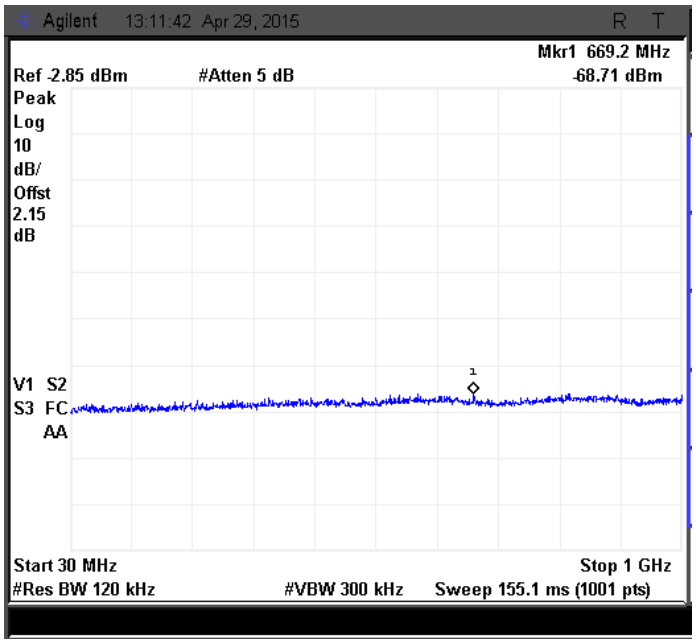

Figure 482: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

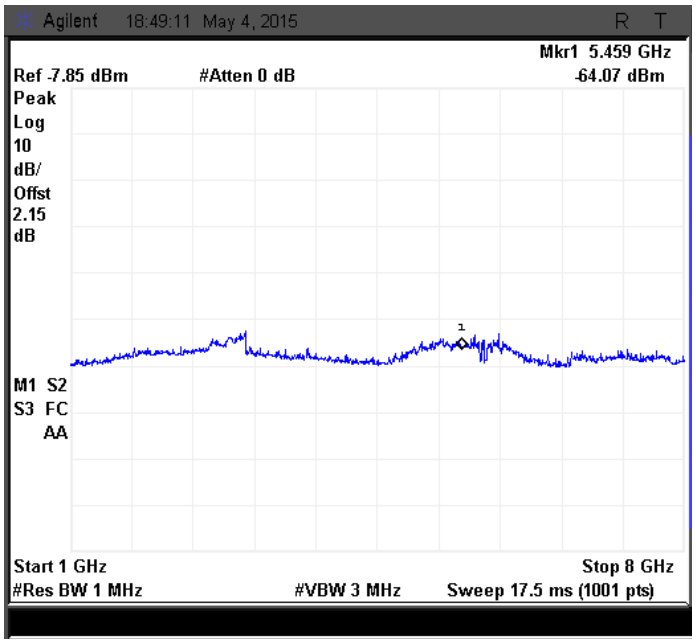

Figure 483: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

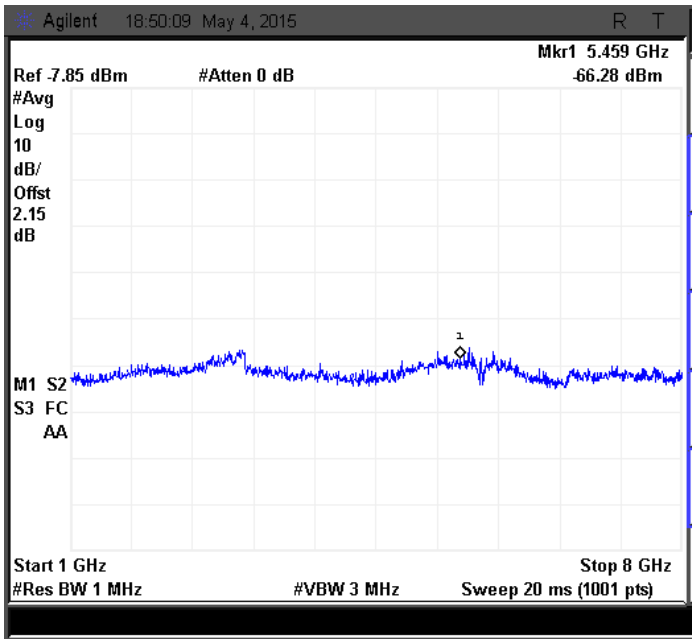

Figure 484: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

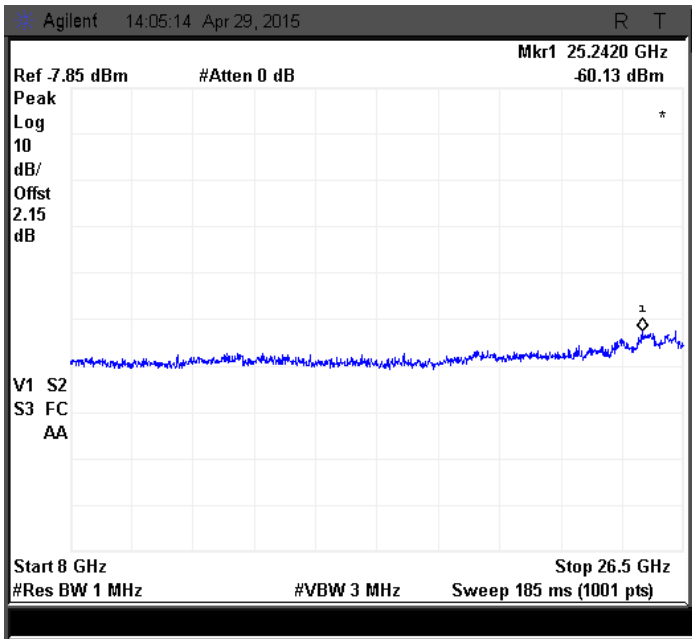

Figure 485: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

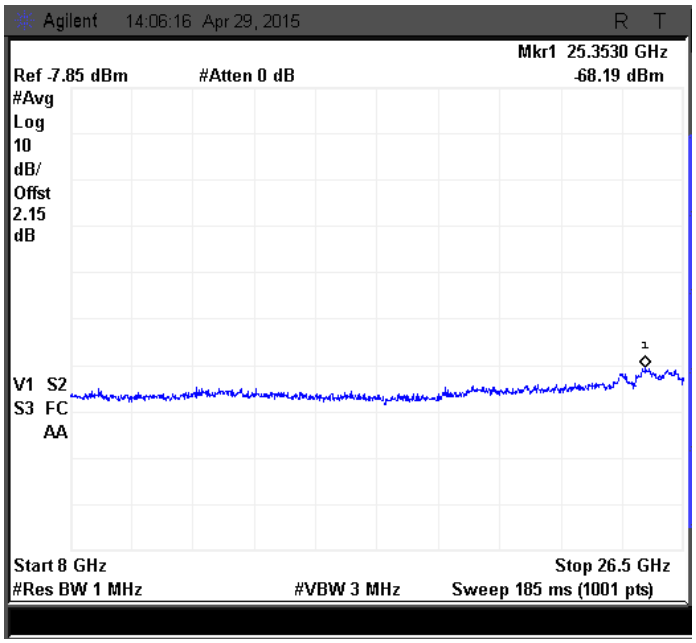

Figure 486: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

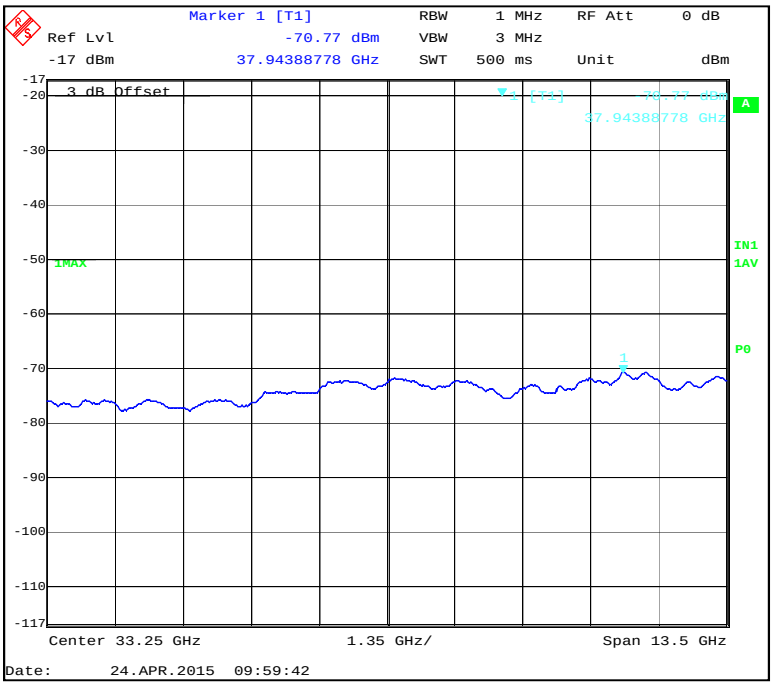

Figure 487: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

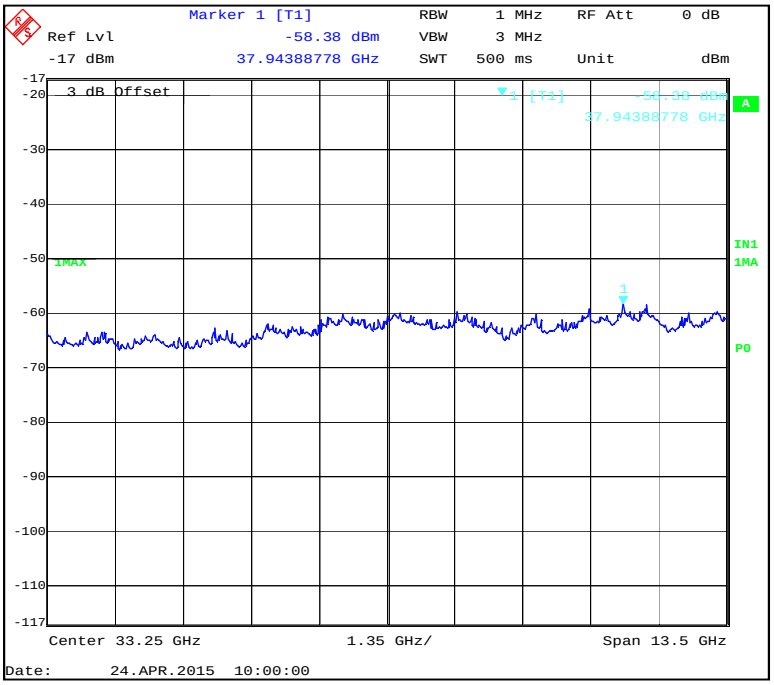

Figure 488: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.7.4 10MHz MODULATION BW - LOW CHANNEL_5485 MHz

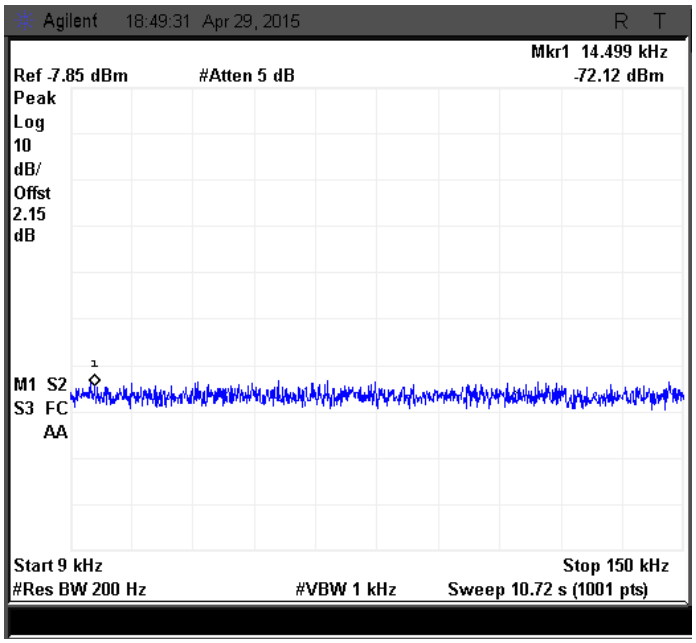

Figure 489: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

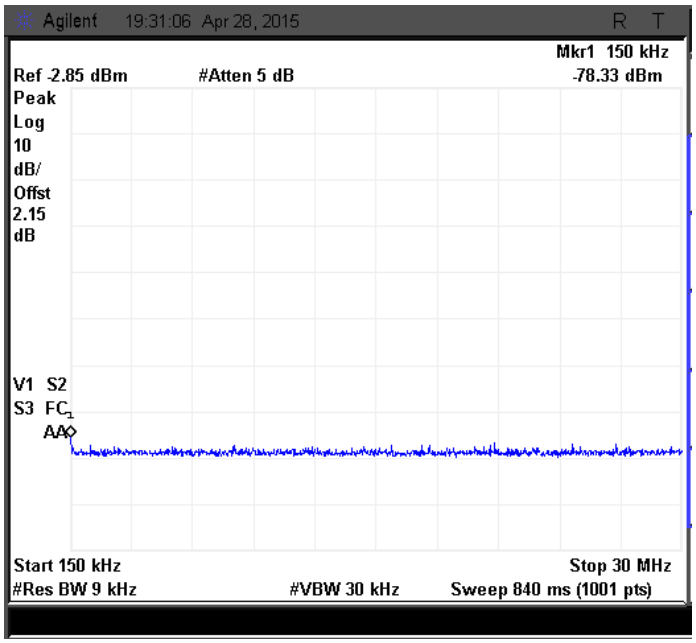

Figure 490: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

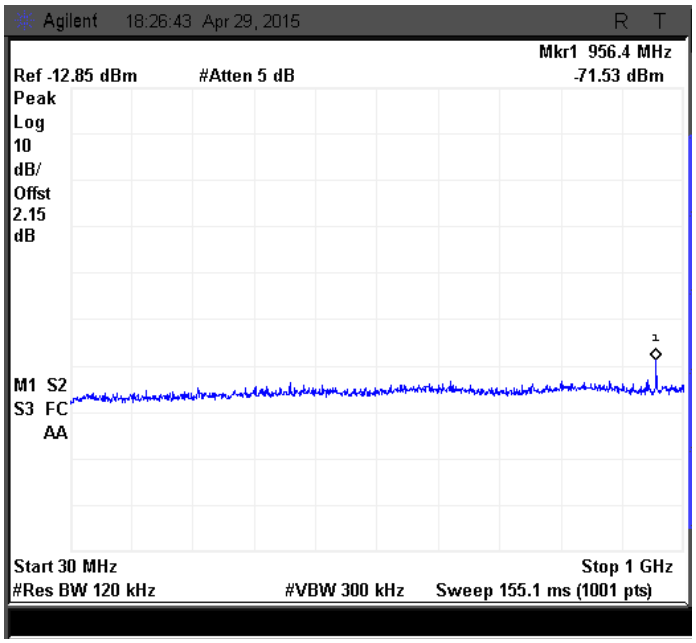

Figure 491: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

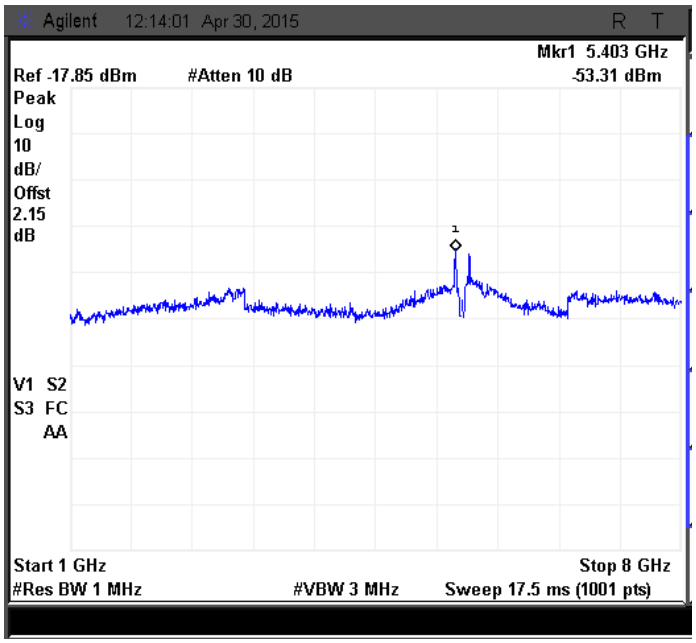

Figure 492: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

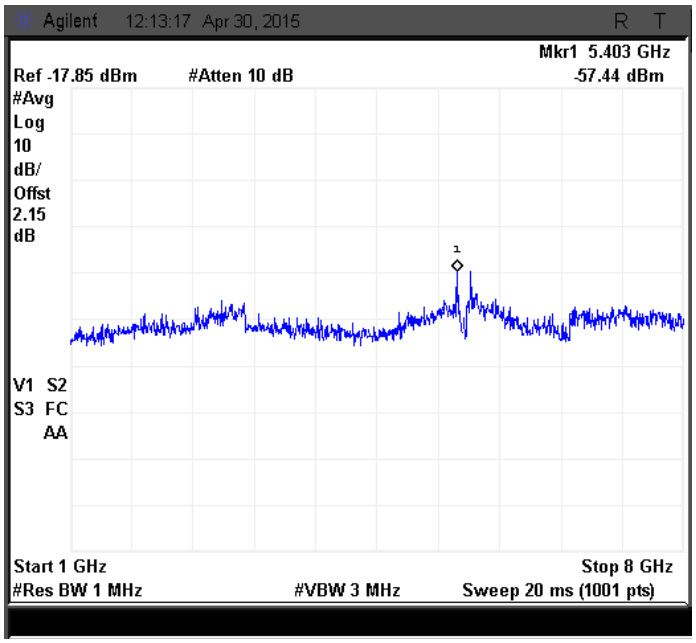

Figure 493: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

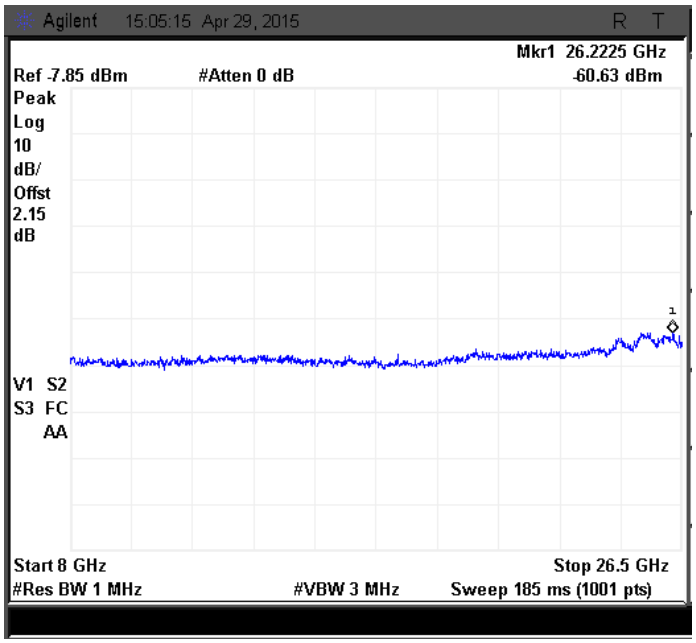

Figure 494: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

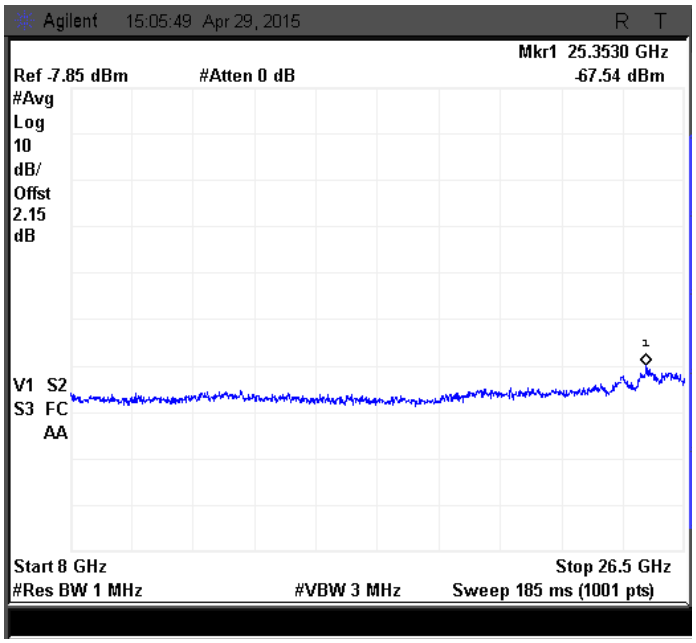

Figure 495: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

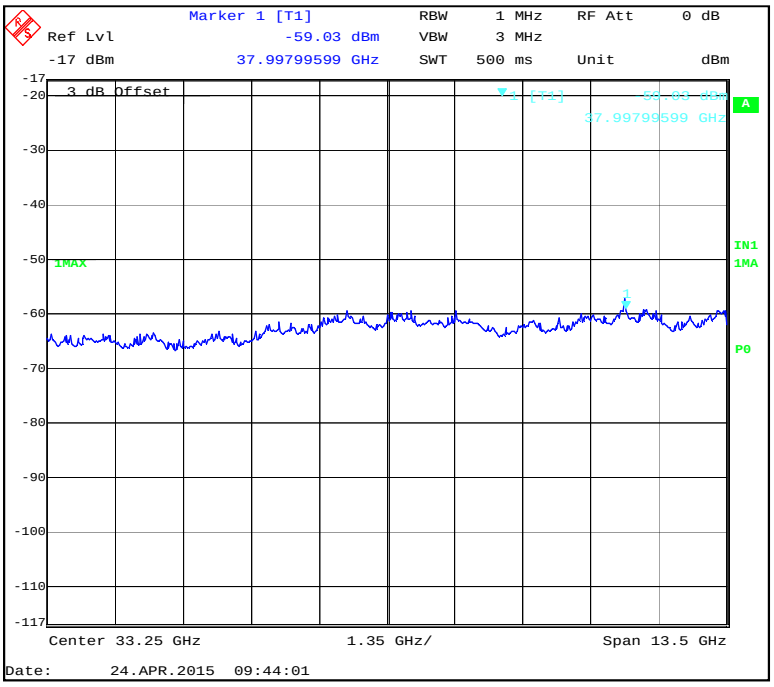

Figure 496: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

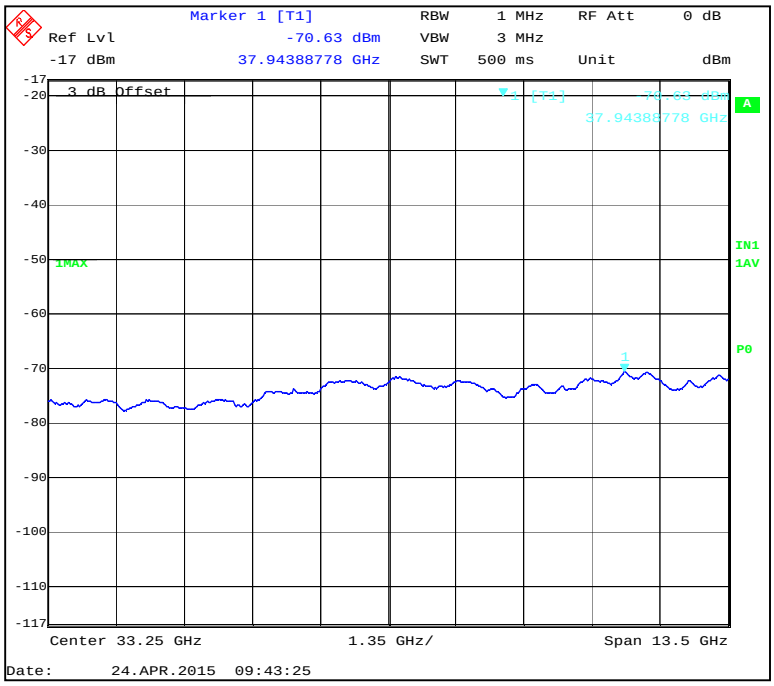

Figure 497: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

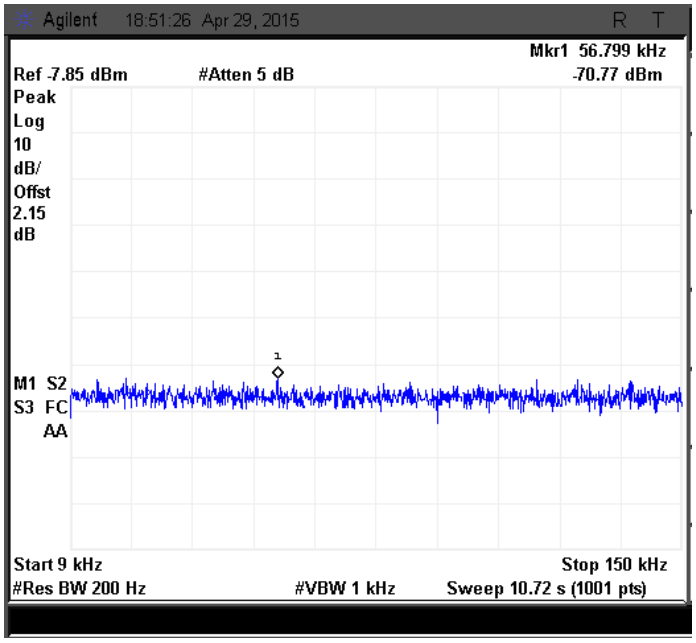

Figure 498: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

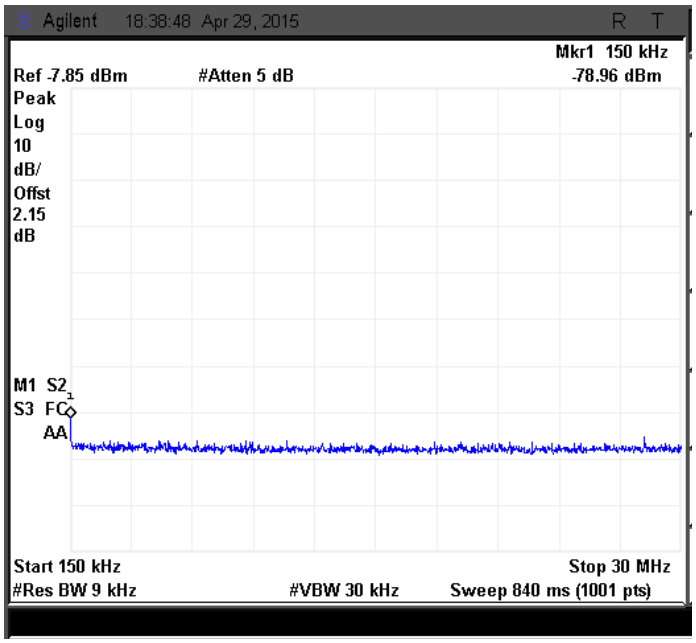

Figure 499: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

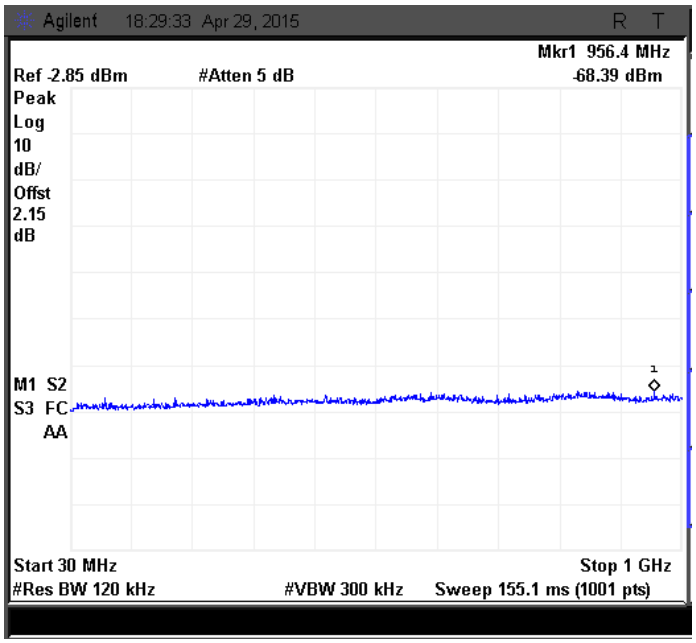

Figure 500: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

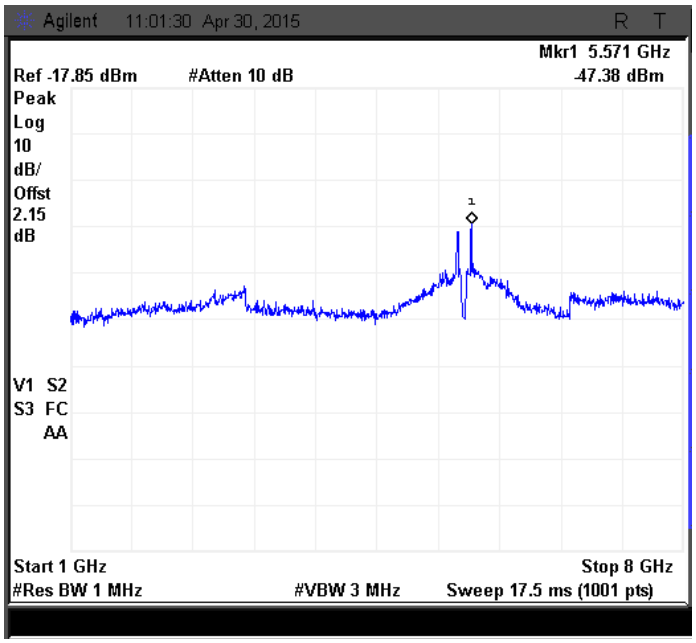

Figure 501: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

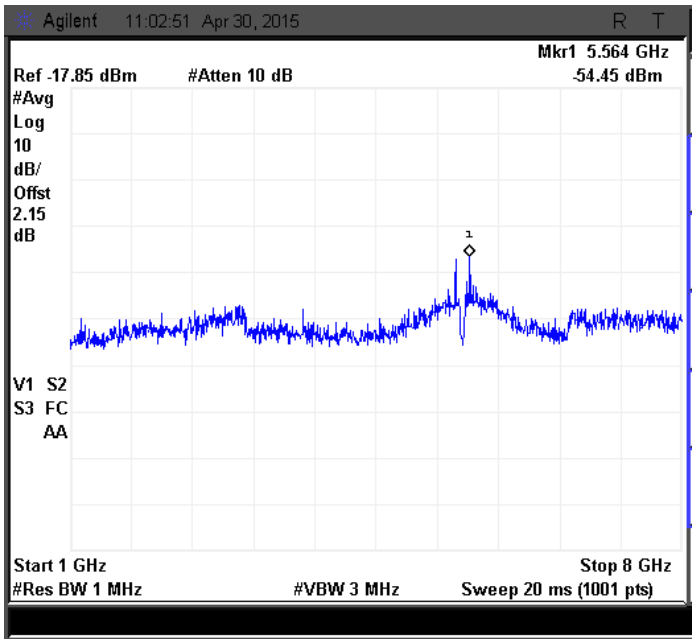

Figure 502: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

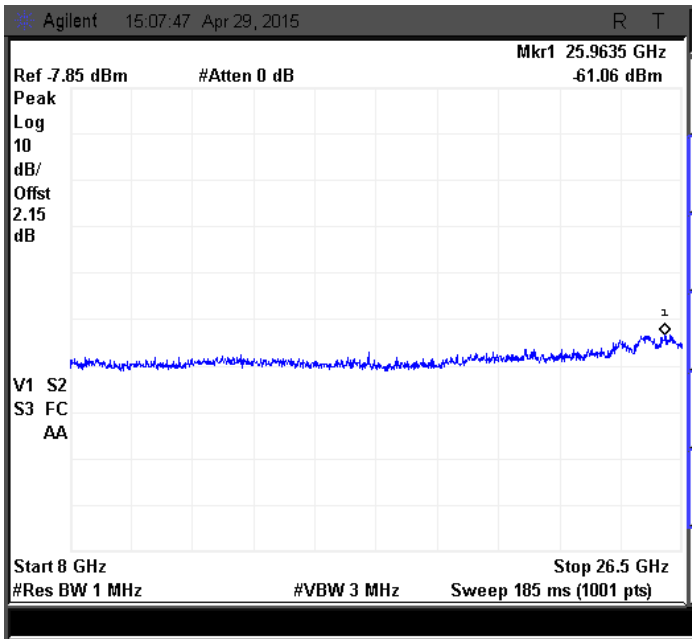

Figure 503: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

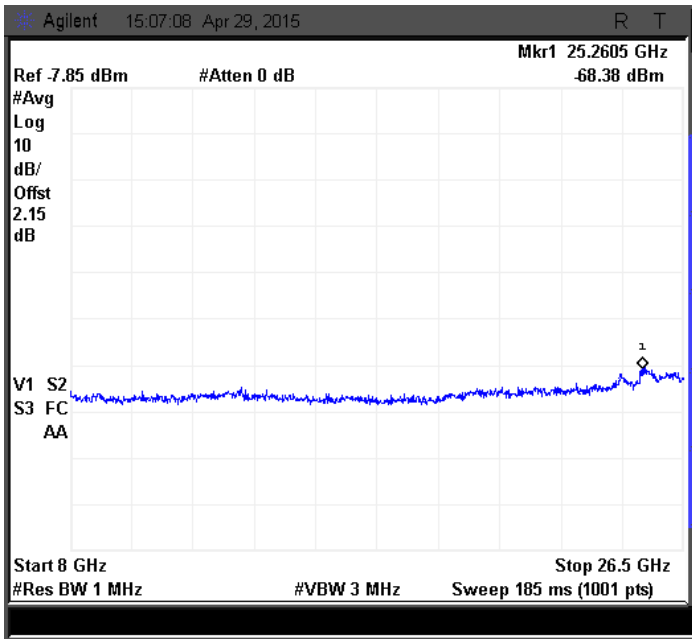

Figure 504: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

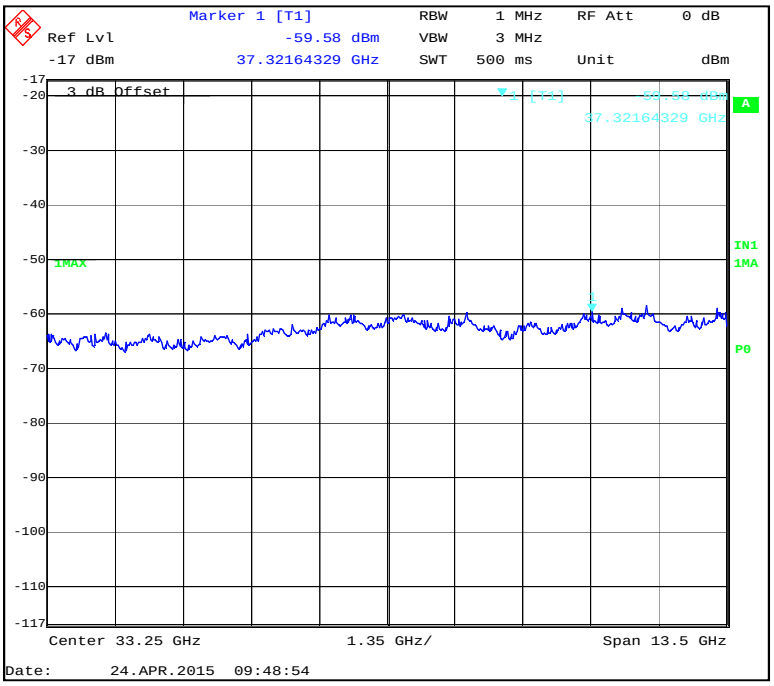

Figure 505: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

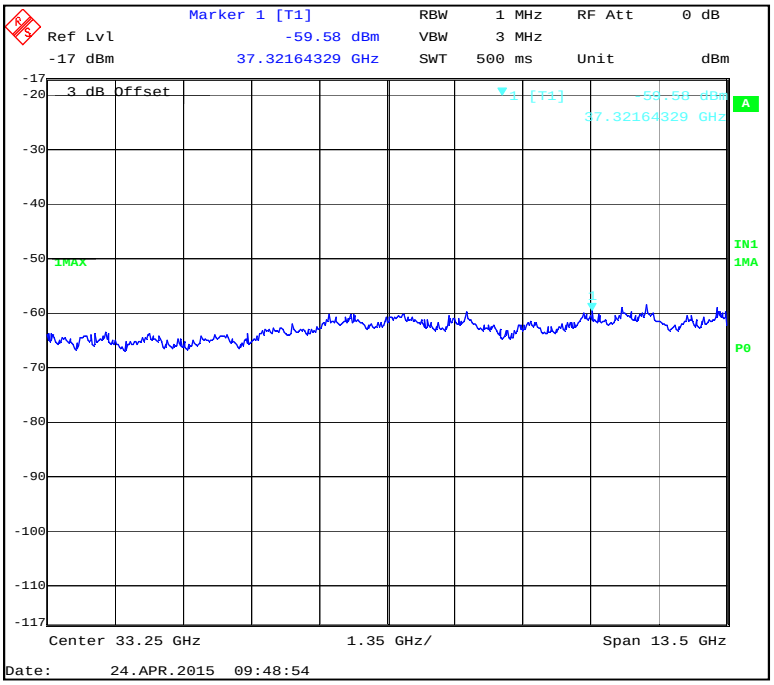

Figure 506: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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5.3.7.7.5 10MHz Modulation BW - Mid channel_5550 MHz

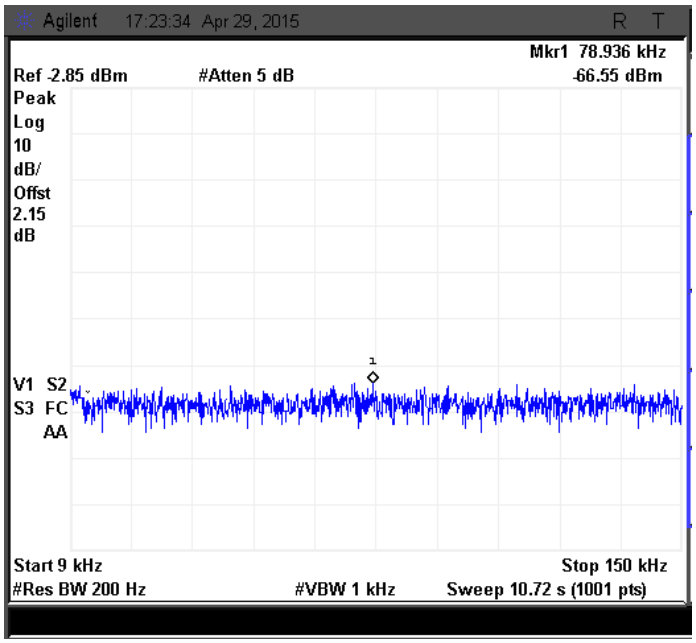

Figure 507: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

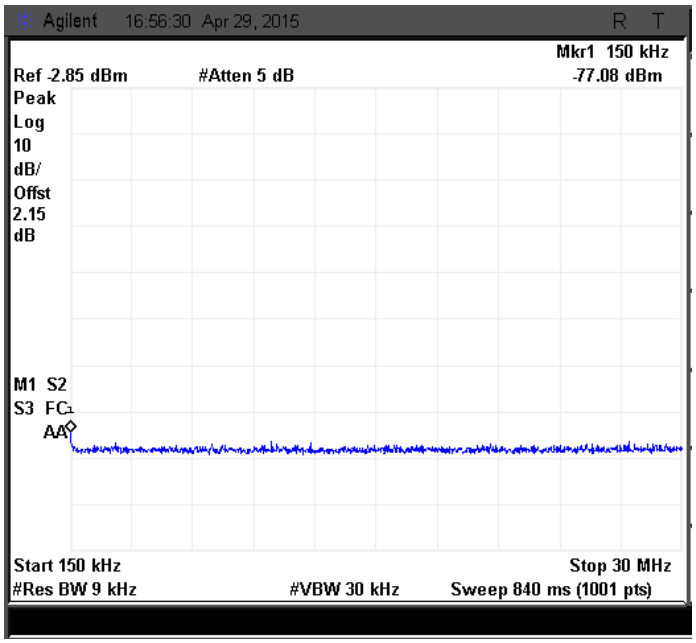

Figure 508: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

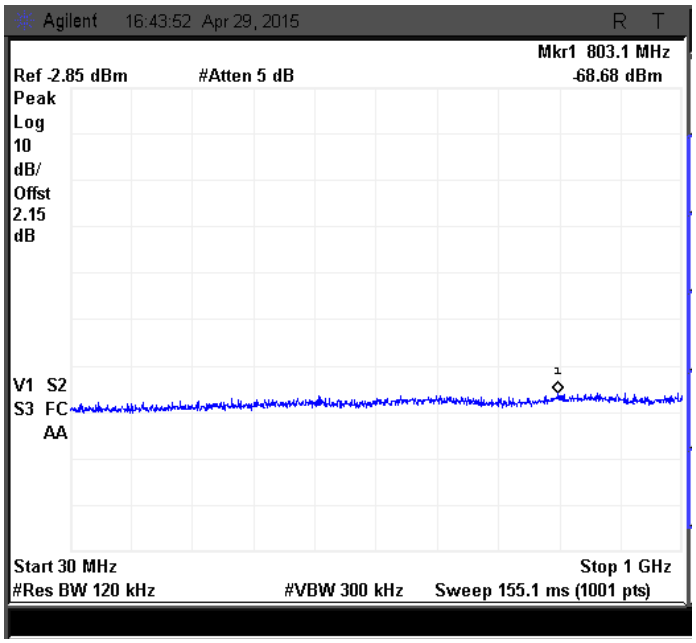

Figure 509: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

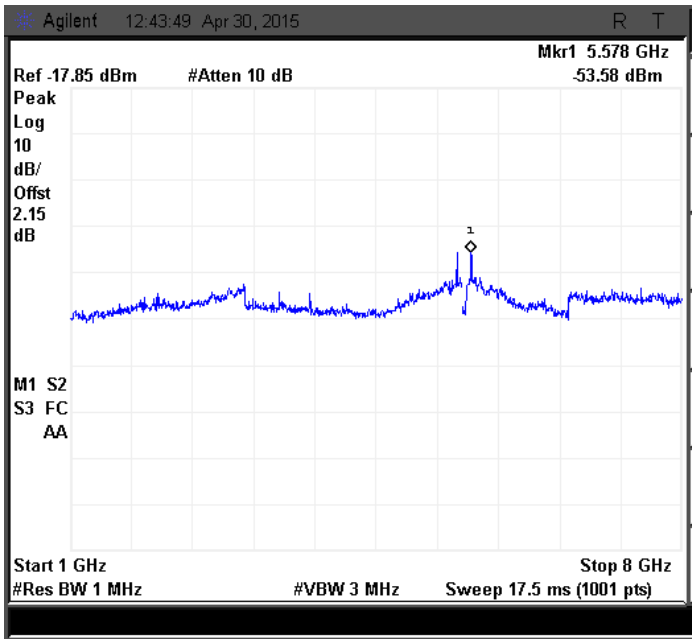

Figure 510: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

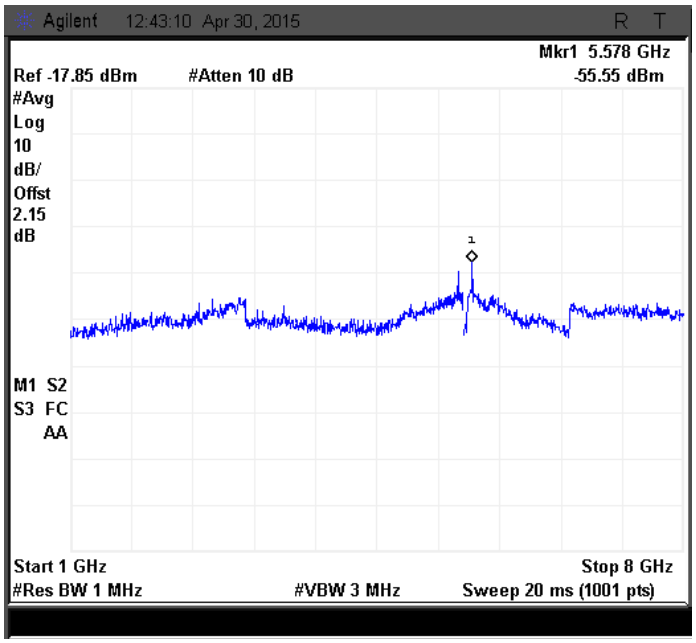

Figure 511: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

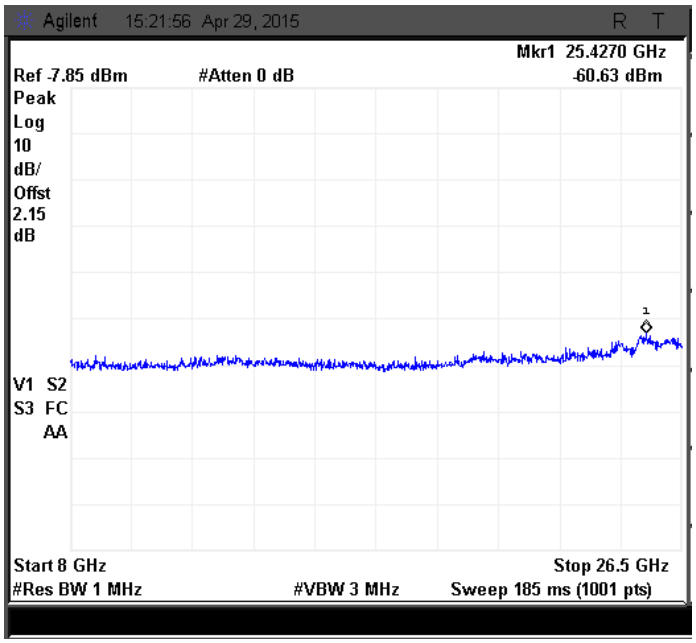

Figure 512: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

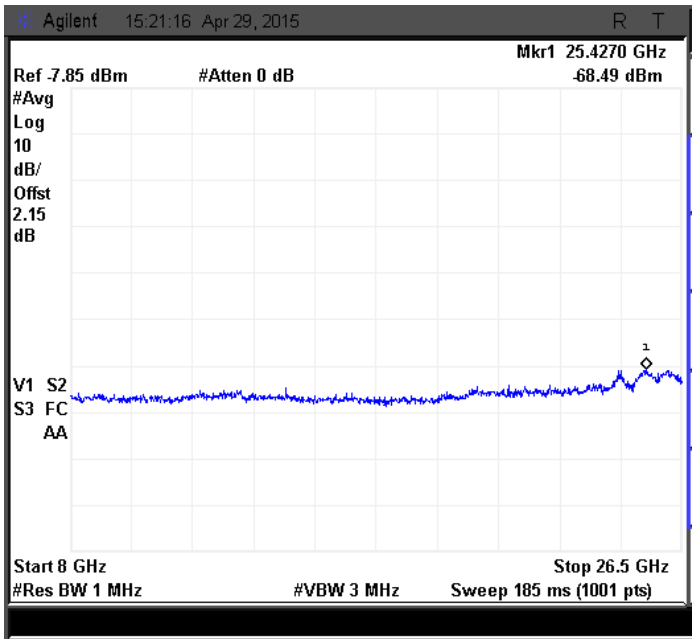

Figure 513: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

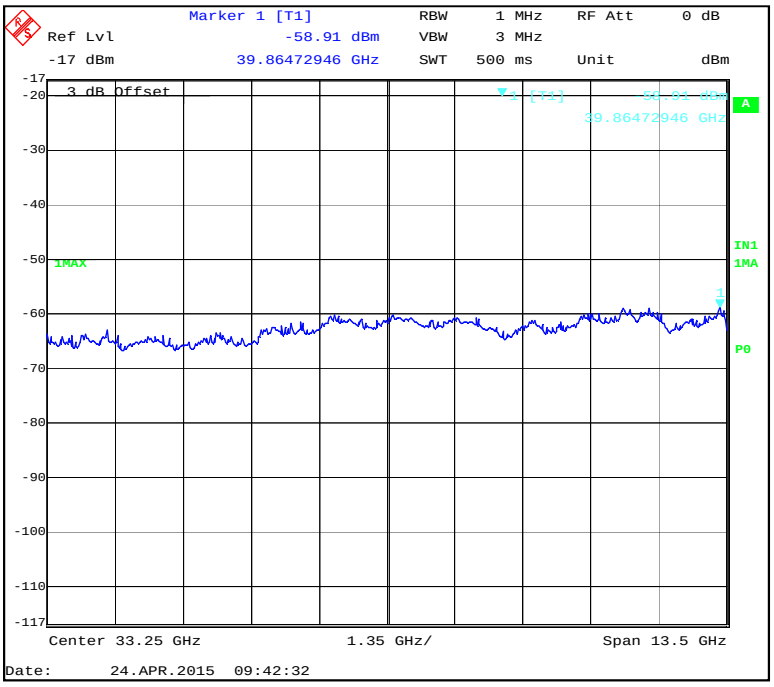

Figure 514: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

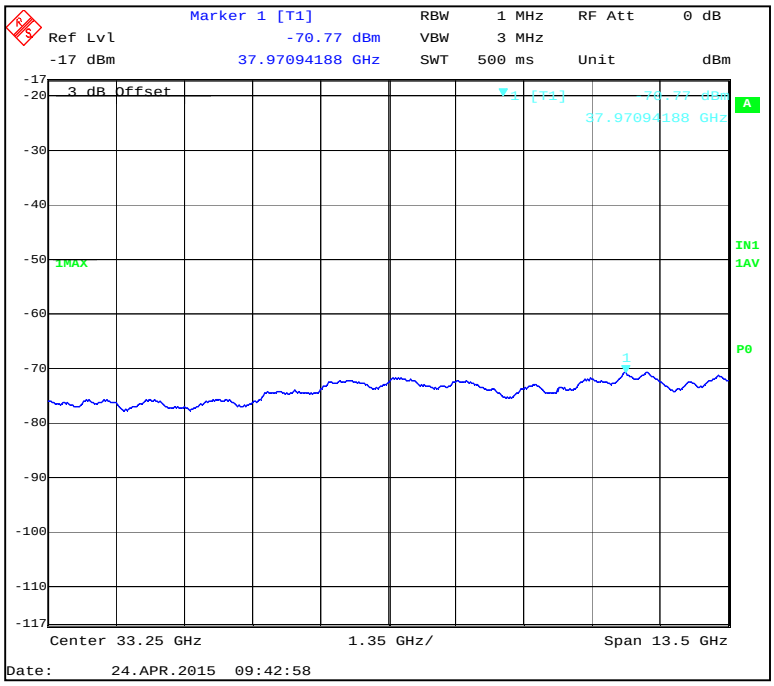

Figure 515: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

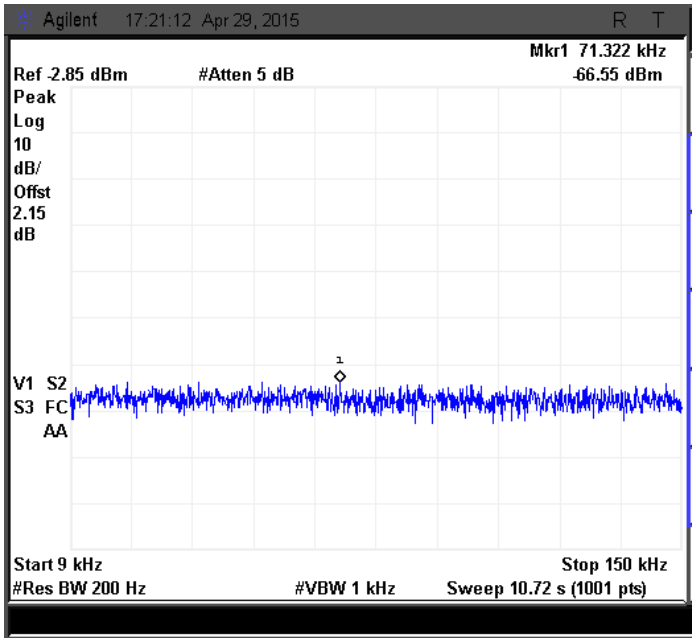

Figure 516: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

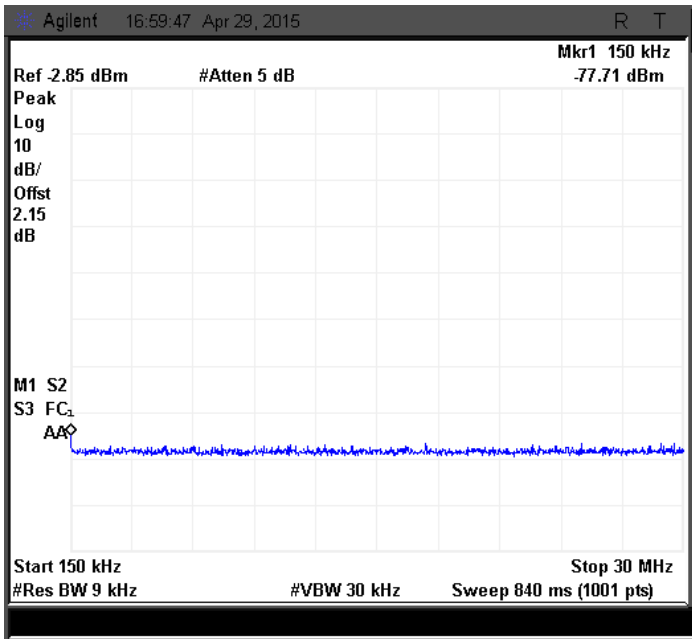

Figure 517: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

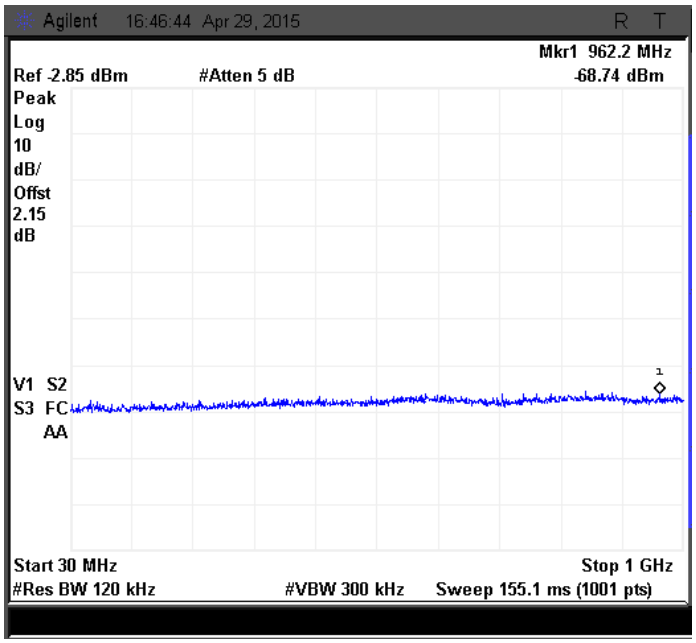

Figure 518: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

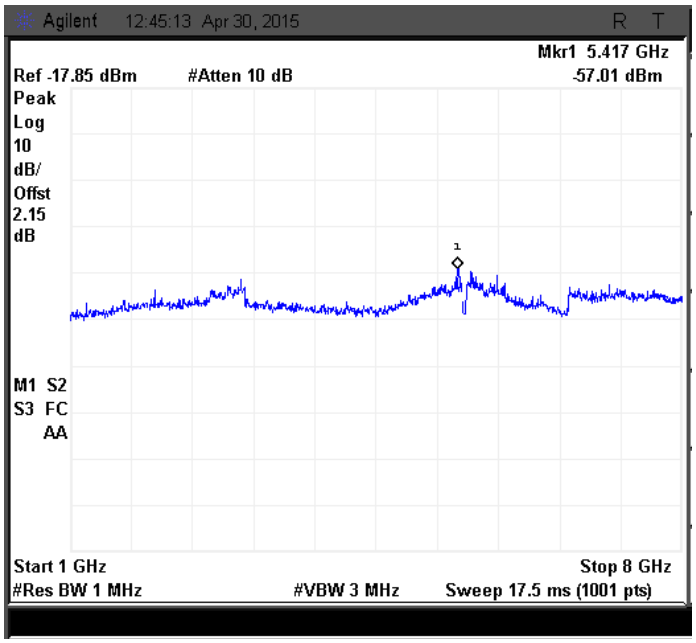

Figure 519: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

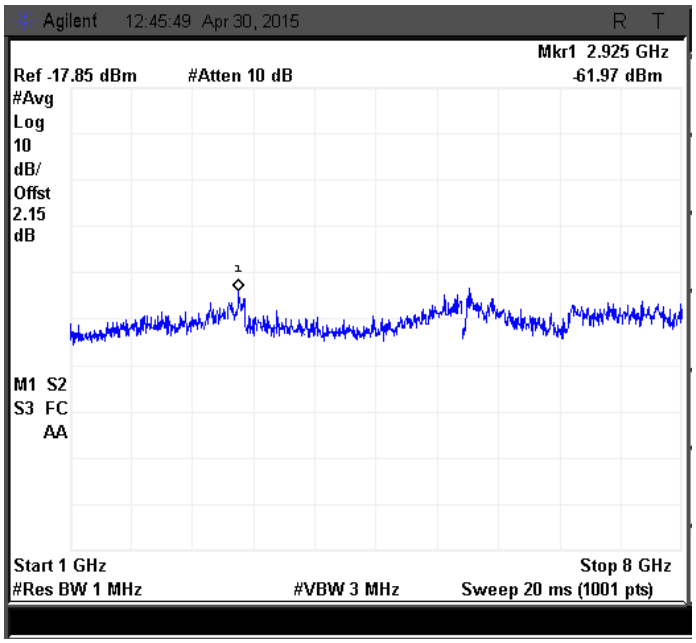

Figure 520: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

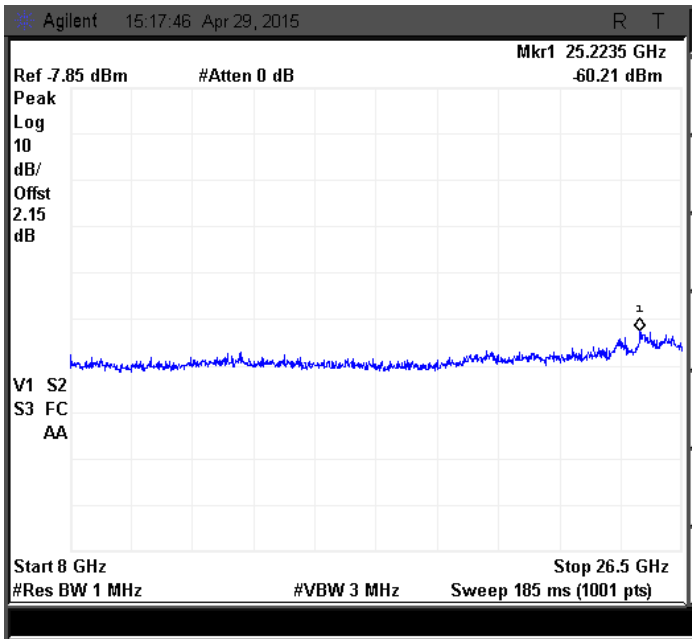

Figure 521: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

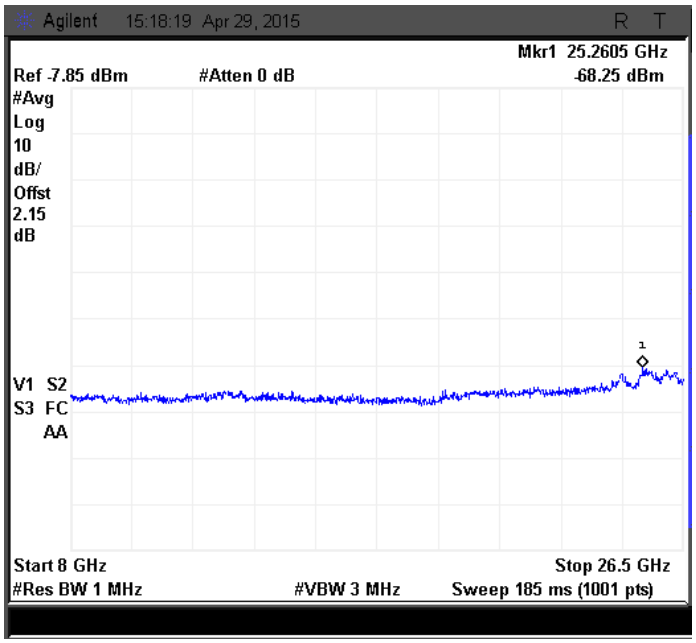

Figure 522: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

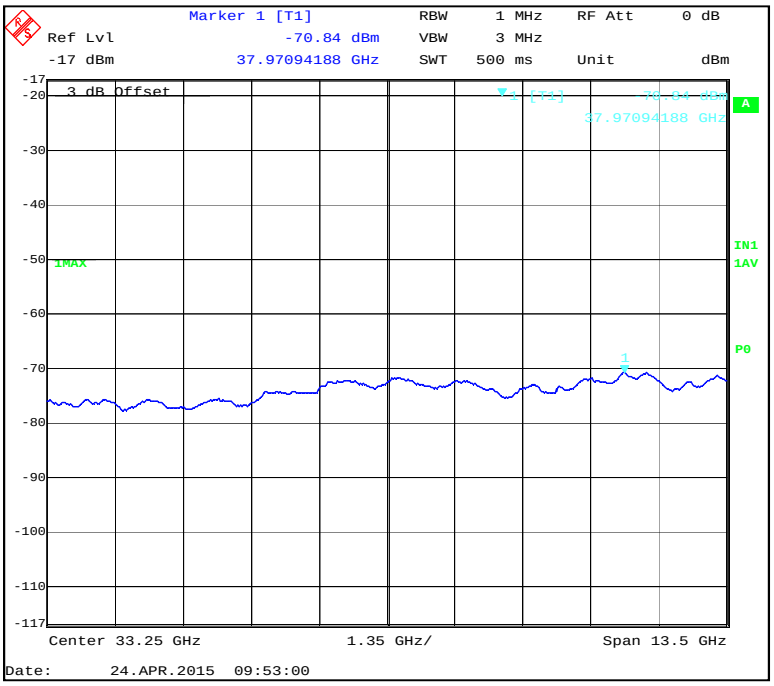

Figure 523: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Average

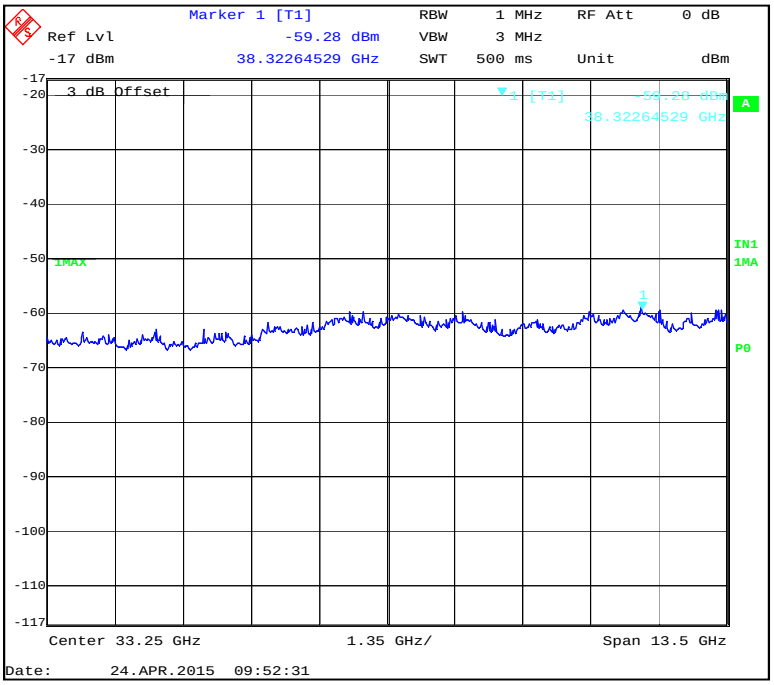

Figure 524: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

5.3.7.7.6 10MHz Modulation BW - High channel_5710 MHz

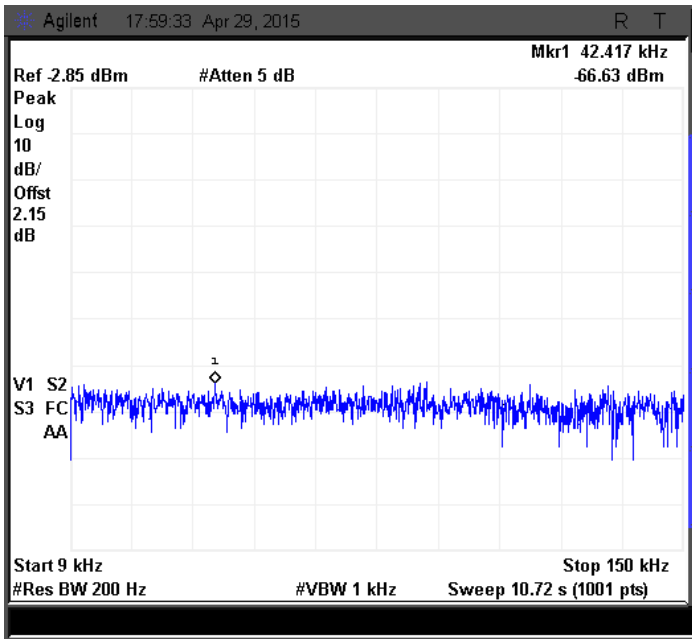

Figure 525: Spurious emission measured from 9 kHz to 150 kHz at Ch. 0-Peak

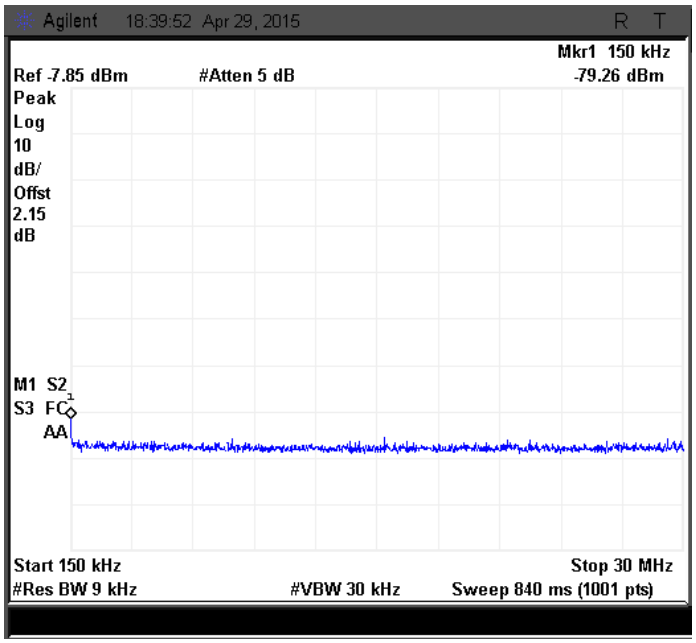

Figure 526: Spurious emission measured from 150 kHz to 30 MHz at Ch. 0-Peak

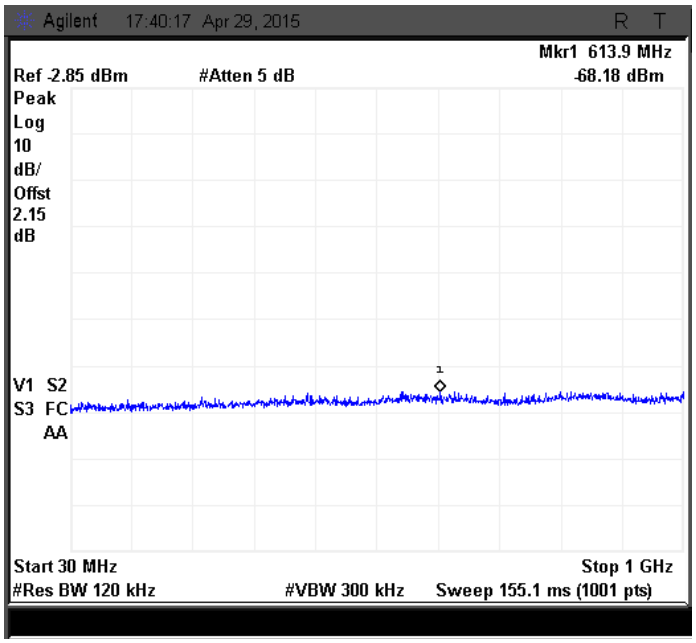

Figure 527: Spurious emission measured from 30 MHz to 1 GHz at Ch. 0-Peak

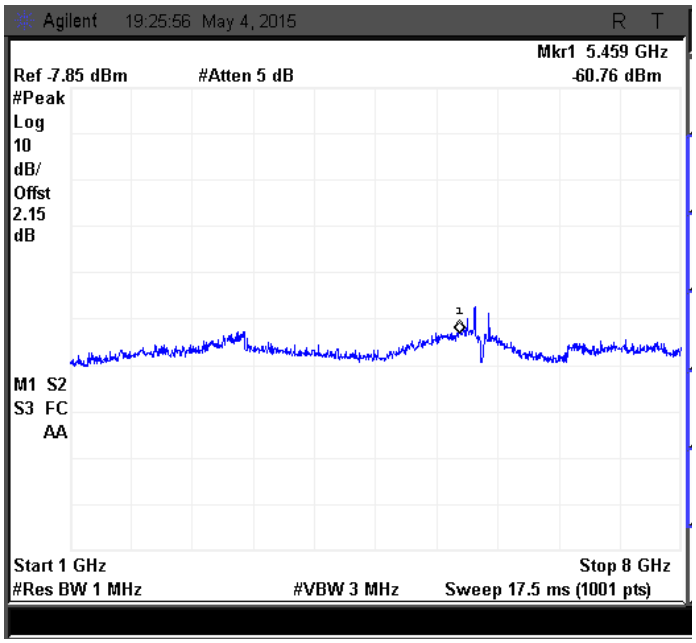

Figure 528: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Peak

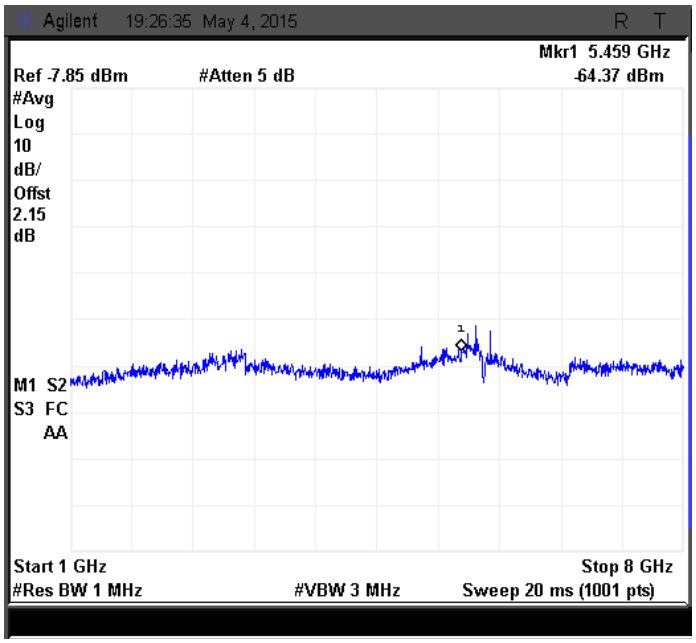

Figure 529: Spurious emission measured from 1 GHz to 8 GHz at Ch. 0-Average

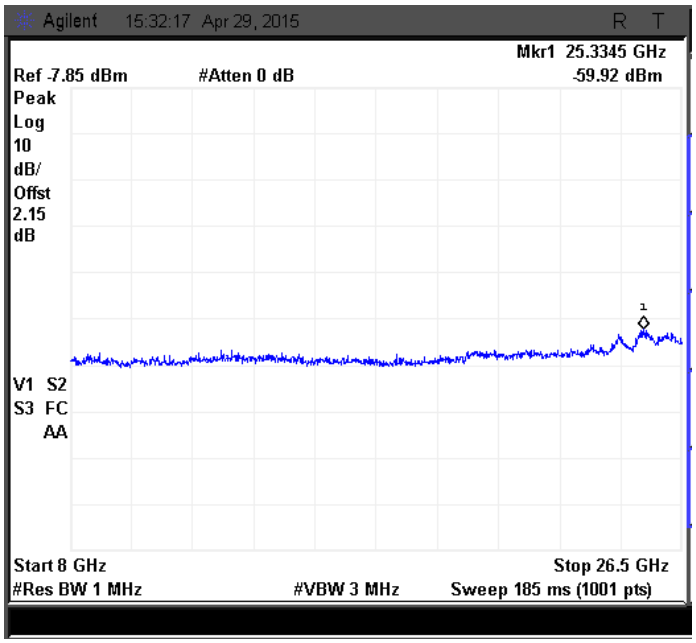

Figure 530: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Peak

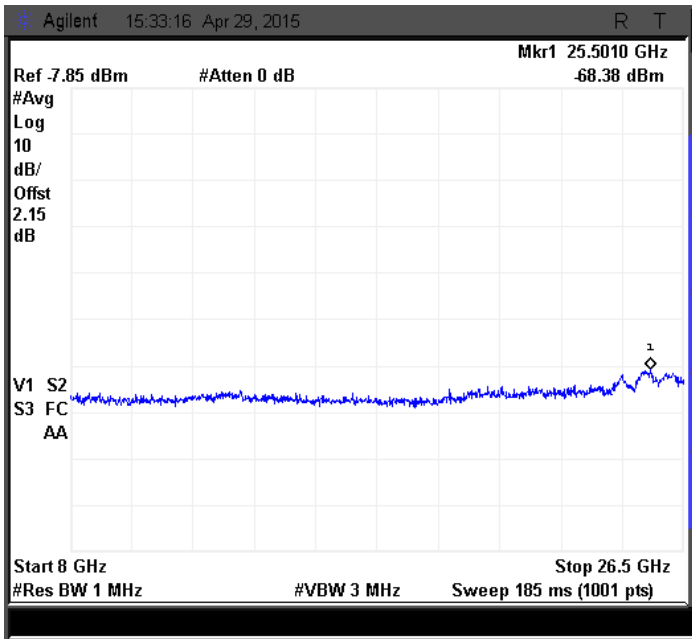

Figure 531: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 0-Average

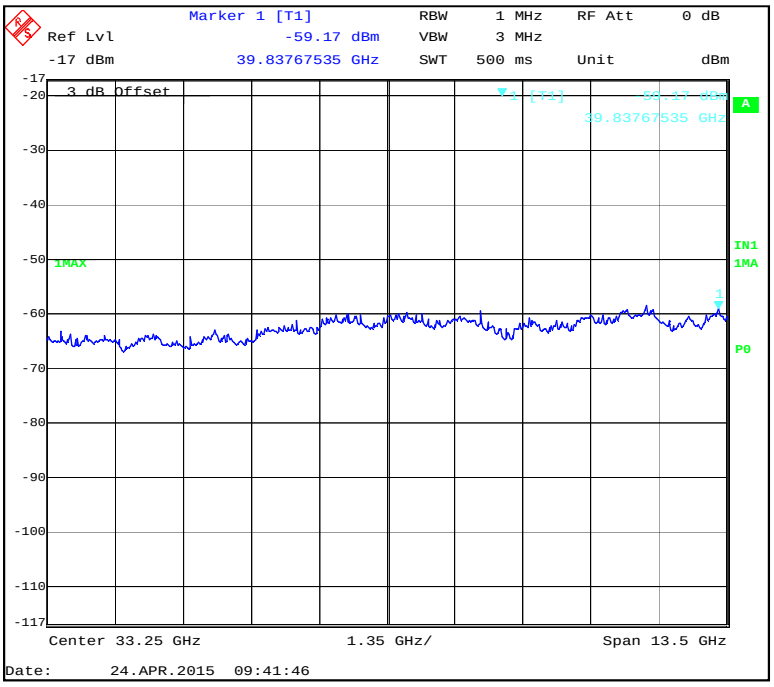

Figure 532: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Peak

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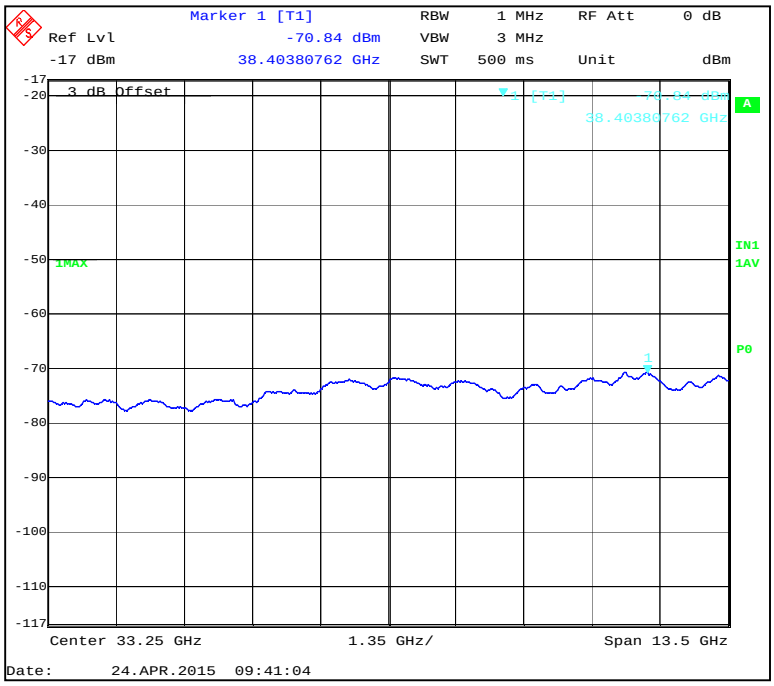

Figure 533: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 0-Average

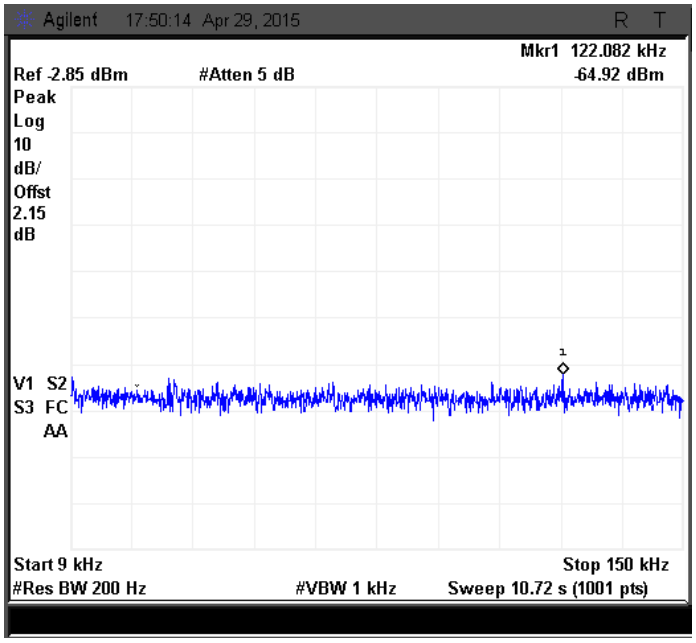

Figure 534: Spurious emission measured from 9 kHz to 150 kHz at Ch. 1-Peak

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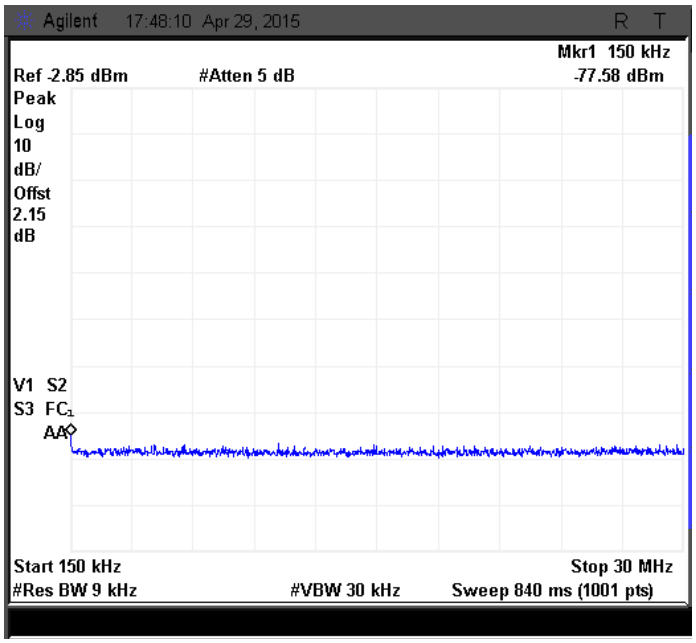

Figure 535: Spurious emission measured from 150 kHz to 30 MHz at Ch. 1-Peak

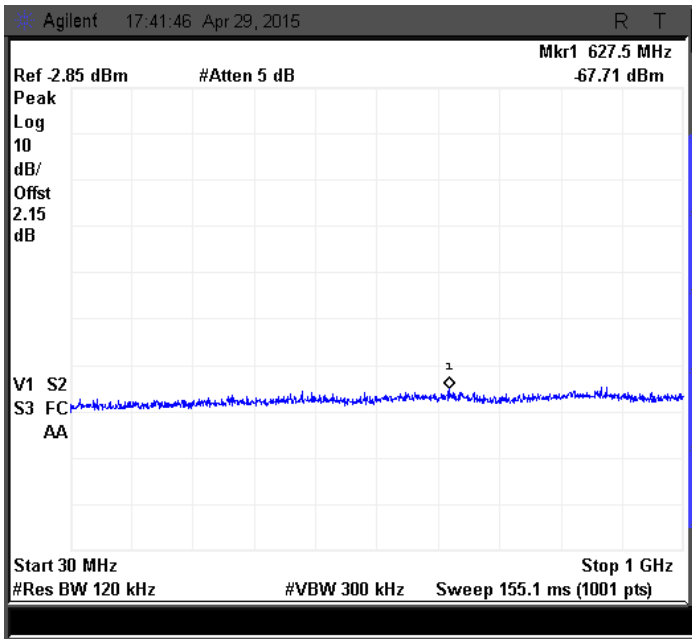

Figure 536: Spurious emission measured from 30 MHz to 1 GHz at Ch. 1-Peak

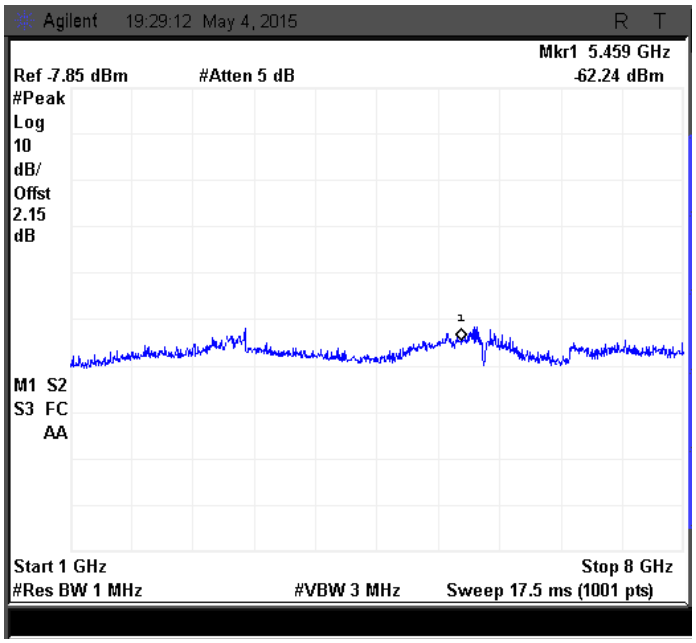

Figure 537: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Peak

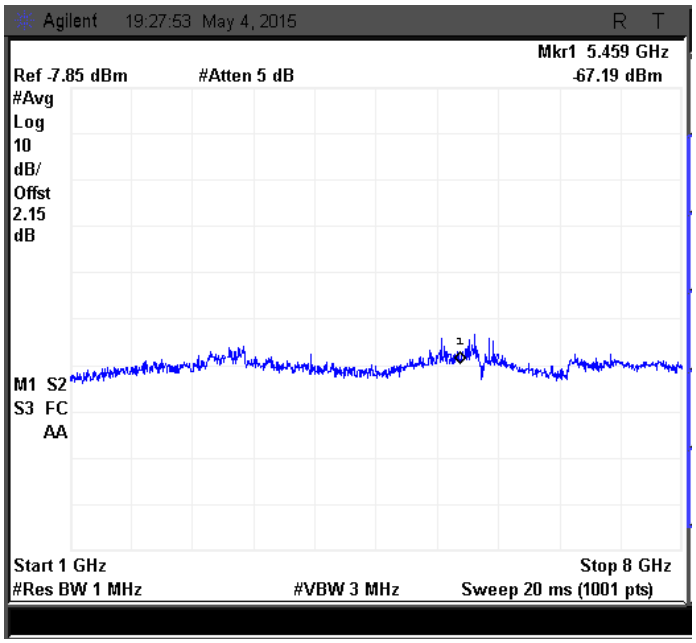

Figure 538: Spurious emission measured from 1 GHz to 8 GHz at Ch. 1-Average

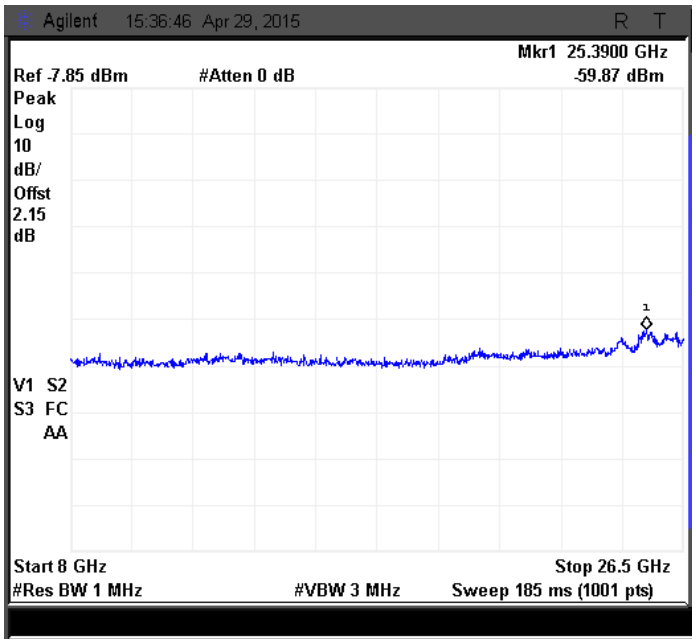

Figure 539: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Peak

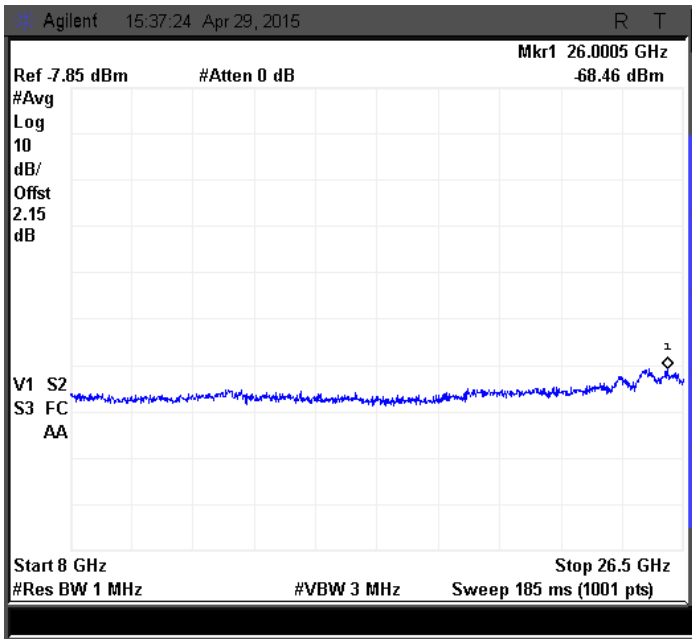

Figure 540: Spurious emission measured from 8 GHz to 26.5 GHz at Ch. 1-Average

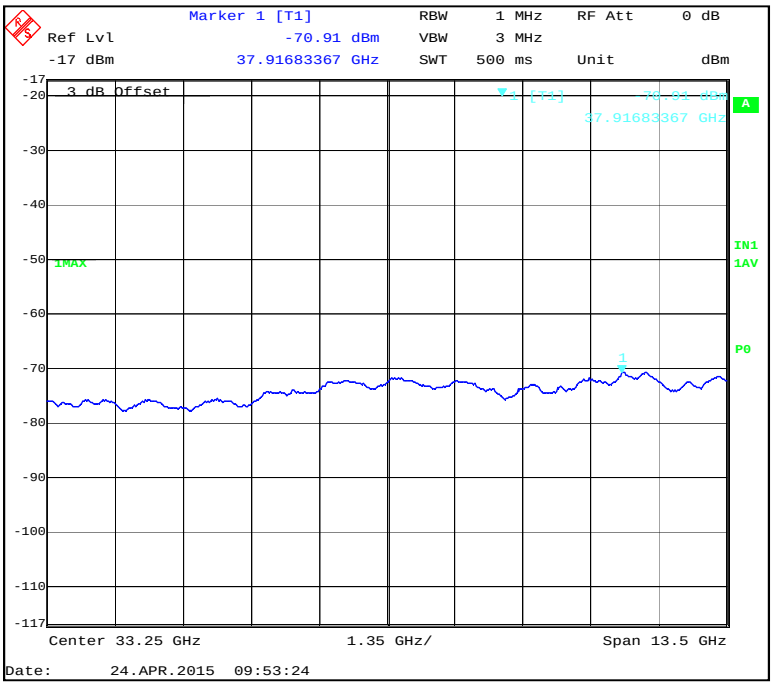

Figure 541: Spurious emission measured from 26.5 GHZ to 40 GHz at Ch. 1-Average

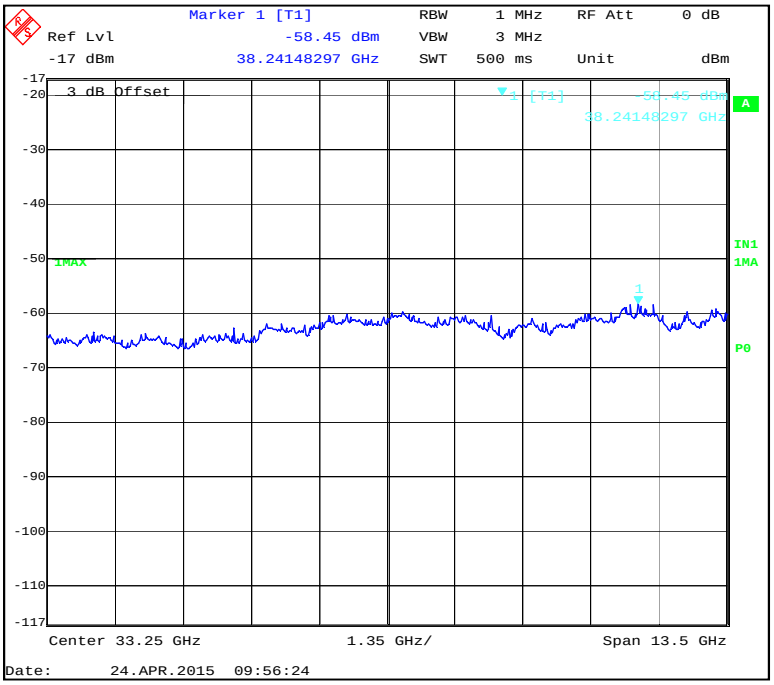

Figure 542: Spurious emission measured from 26.5 GHz to 40 GHz at Ch. 1-Peak

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5.3.7.8 RESULT

Emission is below EIRP limit in all channels for both 40MHz & 10MHz Modulation Bandwidths.

APPENDIX I – ACRONYMS

dBµV	Decibel micro Volts
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

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