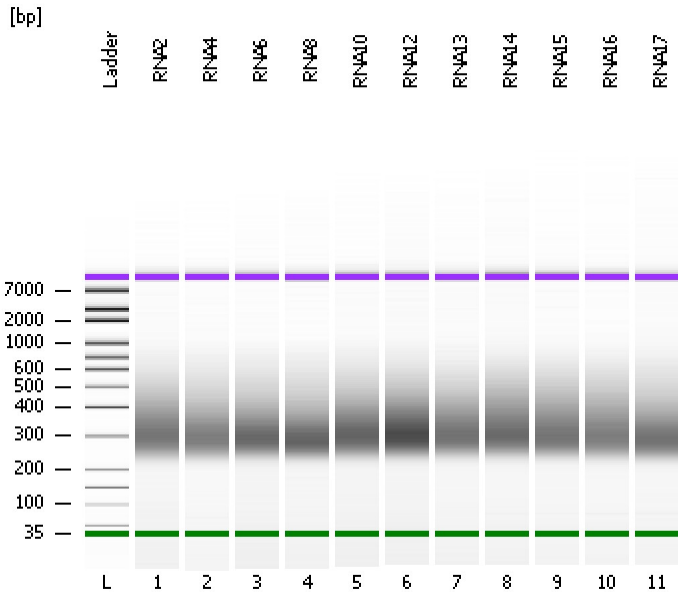


Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
Modified: 1/16/2019 11:24:03 AM

Electrophoresis File Run Summary



Instrument Information:

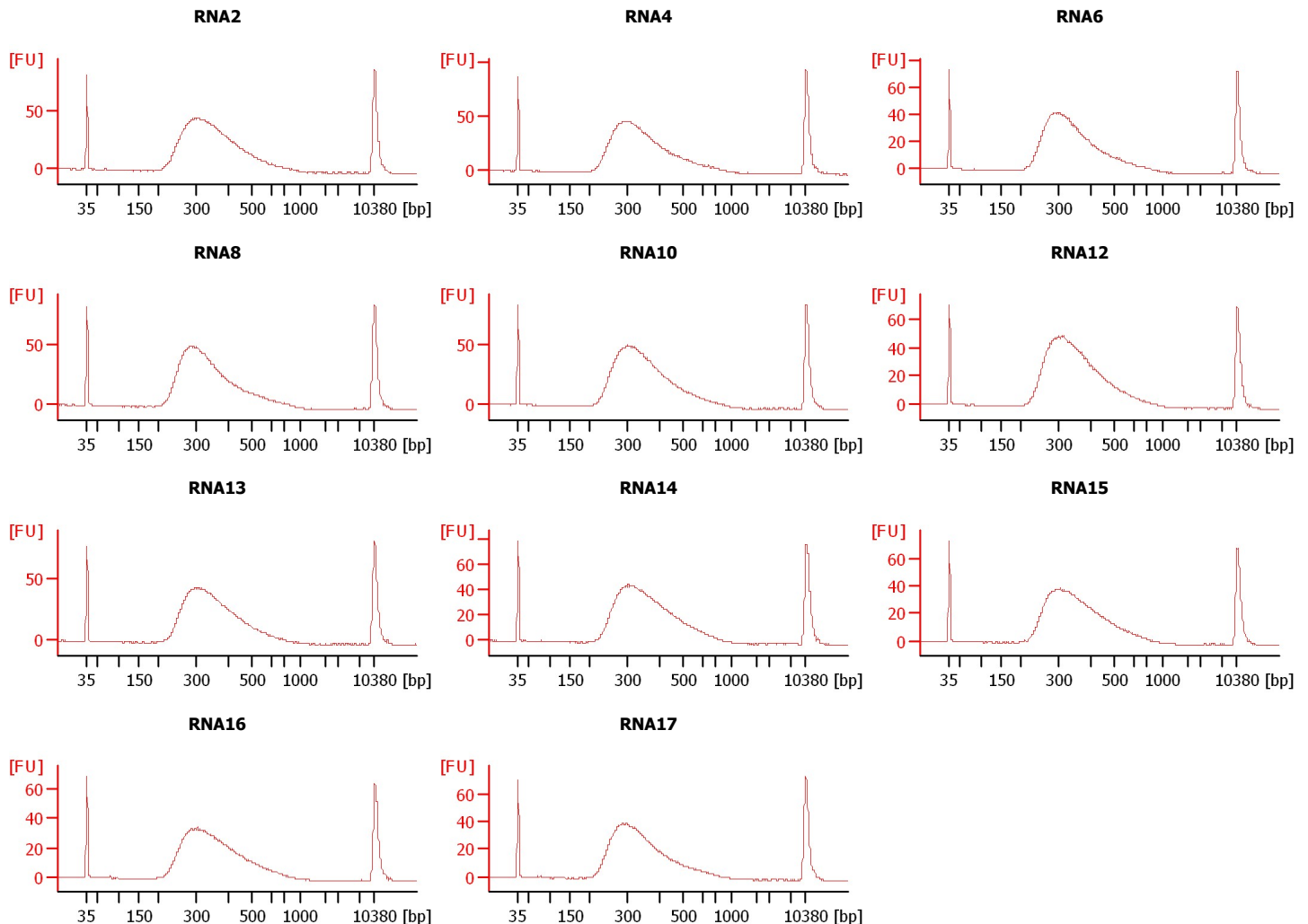
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\dsDNA\High Sensitivity DNA.xsy
Assay Class: High Sensitivity DNA Assay
Version: 1.03
Assay Comments: Copyright © 2003-2010 Agilent Technologies

Chip Information:

Chip Lot #: Reagent Kit Lot #: Chip Comments:



Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
RNA2		<input type="checkbox"/>	✓			
RNA4		<input type="checkbox"/>	✓			
RNA6		<input type="checkbox"/>	✓			
RNA8		<input type="checkbox"/>	✓			
RNA10		<input type="checkbox"/>	✓			
RNA12		<input type="checkbox"/>	✓			
RNA13		<input type="checkbox"/>	✓			
RNA14		<input type="checkbox"/>	✓			
RNA15		<input type="checkbox"/>	✓			
RNA16		<input type="checkbox"/>	✓			
RNA17		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
Modified: 1/16/2019 11:24:03 AM

Electrophoresis Assay Details

General Analysis Settings

Number of Available Sample and Ladder Wells (Max.) : 12
Minimum Visible Range [s] : 32
Maximum Visible Range [s] : 138
Start Analysis Time Range [s] : 33
End Analysis Time Range [s] : 137.5
Ladder Concentration [pg/μl] : 1950
Uses Standard Area for Ladder Fragments
Lower Marker Concentration [pg/μl] : 125
Upper Marker Concentration [pg/μl] : 75
Used Upper Marker for Quantitation
Standard Curve Fit is Point to Point
Show Data Aligned to Lower and Upper Marker

Integrator Settings

Integration Start Time [s] : 33.05
Integration End Time [s] : 137
Slope Threshold : 0.8
Height Threshold [FU] : 5
Area Threshold : 0.1
Width Threshold [s] : 0.6
Baseline Plateau [s] : 0.5

Filter Settings

Filter Width [s] : 0.5
Polynomial Order : 4

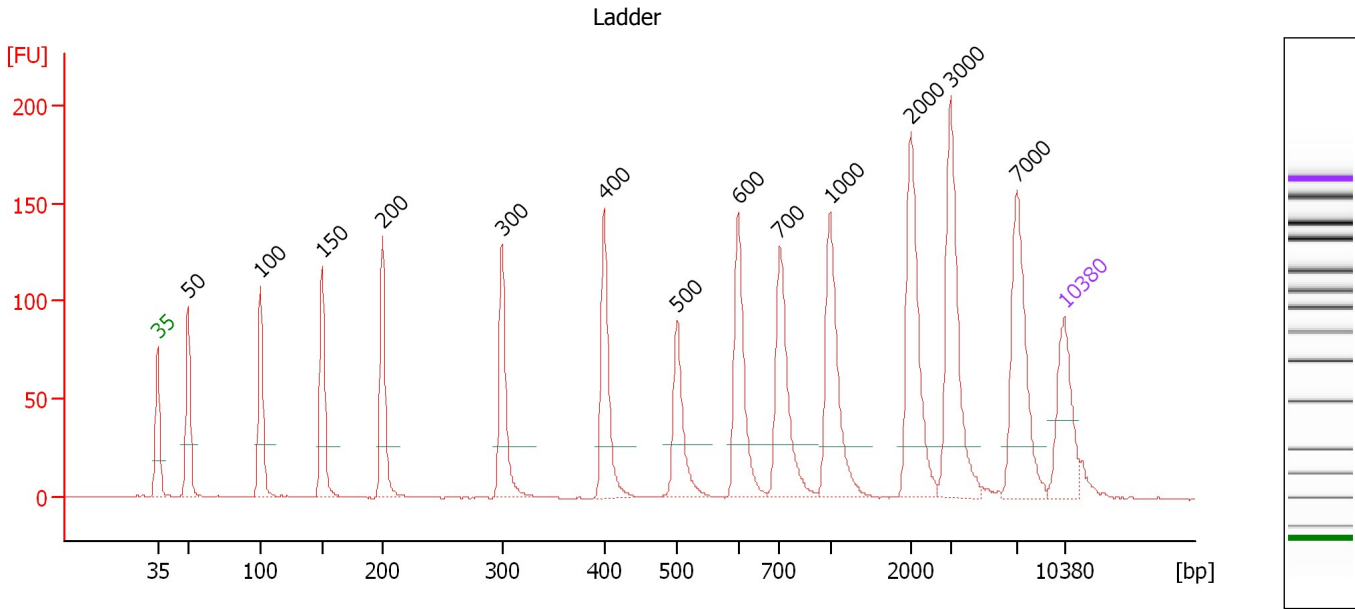
Ladder

Ladder Peak	Size	Area
1	35	160
2	50	210
3	100	208
4	150	221
5	200	242
6	300	270
7	400	305
8	500	306
9	600	336
10	700	321
11	1000	366
12	2000	413
13	3000	411
14	7000	400
15	10380	214

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

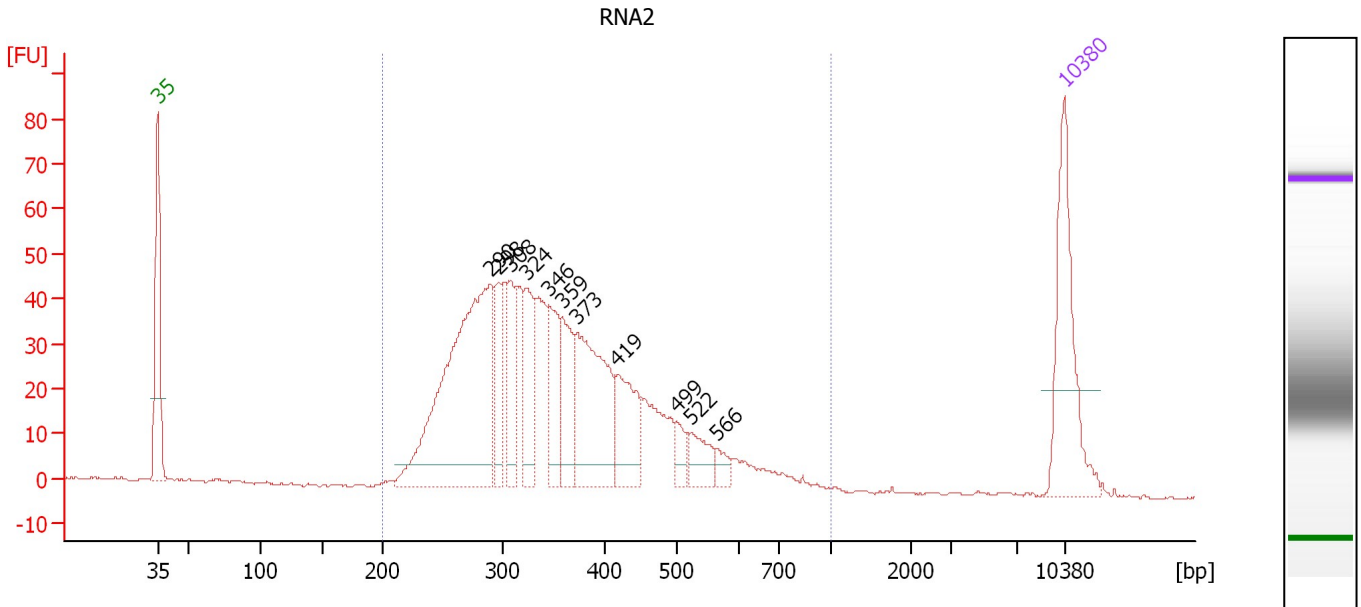
Peak table for Ladder

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	50	150.00	4,545.5	Ladder Peak	45.34
3	100	150.00	2,272.7	Ladder Peak	50.96
4	150	150.00	1,515.2	Ladder Peak	55.69
5	200	150.00	1,136.4	Ladder Peak	60.37
6	300	150.00	757.6	Ladder Peak	69.60
7	400	150.00	568.2	Ladder Peak	77.46
8	500	150.00	454.5	Ladder Peak	83.13
9	600	150.00	378.8	Ladder Peak	87.81
10	700	150.00	324.7	Ladder Peak	91.04
11	1,000	150.00	227.3	Ladder Peak	94.93
12	2,000	150.00	113.6	Ladder Peak	101.15
13	3,000	150.00	75.8	Ladder Peak	104.24
14	7,000	150.00	32.5	Ladder Peak	109.35
15	10,380	75.00	10.9	Upper Marker	113.00

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 1 : RNA2

Number of peaks found: 11 Corr. Area 1: 995.1
 Noise: 0.3

Peak table for sample 1 : RNA2

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	290	295.27	1,542.2		68.68
3	298	43.81	222.9		69.39
4	308	46.20	227.1		70.24
5	324	57.62	269.1		71.52
6	346	49.43	216.4		73.22
7	359	51.13	215.6		74.26
8	373	120.09	487.6		75.35
9	419	56.71	205.2		78.52
10	499	13.28	40.3		83.06
11	522	23.13	67.2		84.15
12	566	10.11	27.0		86.23
13	10,380	75.00	10.9	Upper Marker	113.00

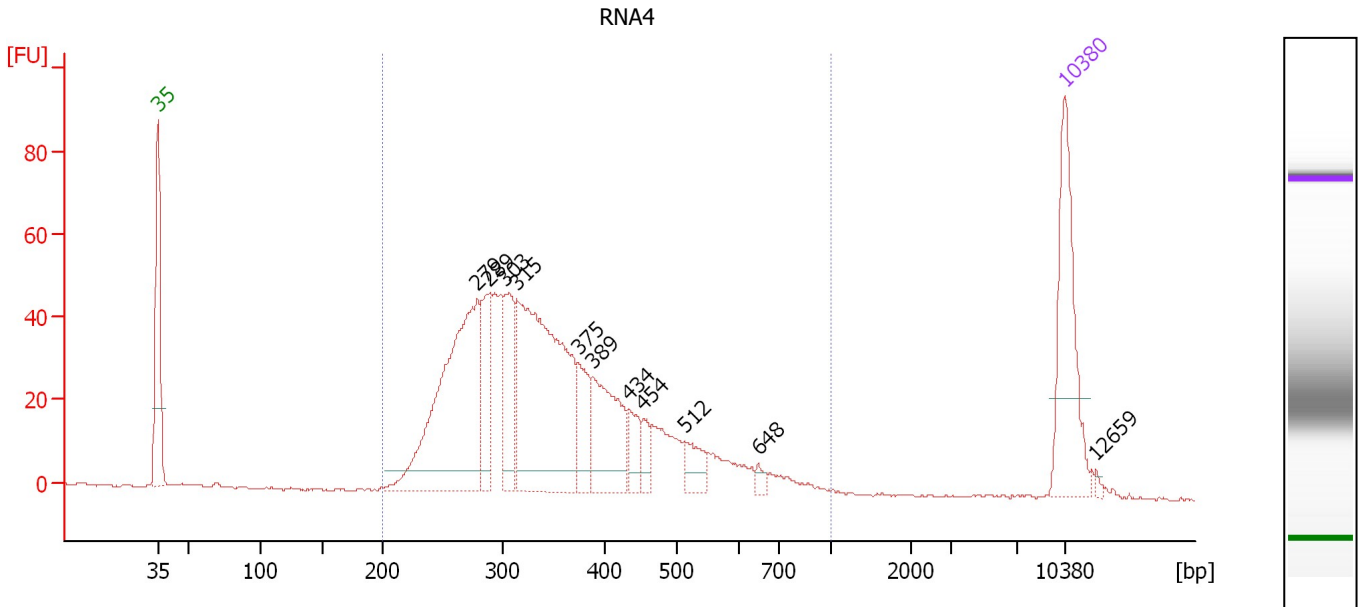
Region table for sample 1 : RNA2

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	365	993.27	995.1	4,519.1	99	28.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 2 : RNA4

Number of peaks found: 11 Corr. Area 1: 987.0
 Noise: 0.4

Peak table for sample 2 : RNA4

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	279	247.80	1,344.8		67.68
3	289	50.67	265.7		68.58
4	303	59.20	296.3		69.81
5	315	263.00	1,266.1		70.75
6	375	36.59	147.9		75.49
7	389	80.74	314.2		76.63
8	434	21.37	74.6		79.37
9	454	13.76	46.0		80.51
10	512	20.94	62.0		83.68
11	648	4.96	11.6		89.37
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,659	0.00	0.0		115.46

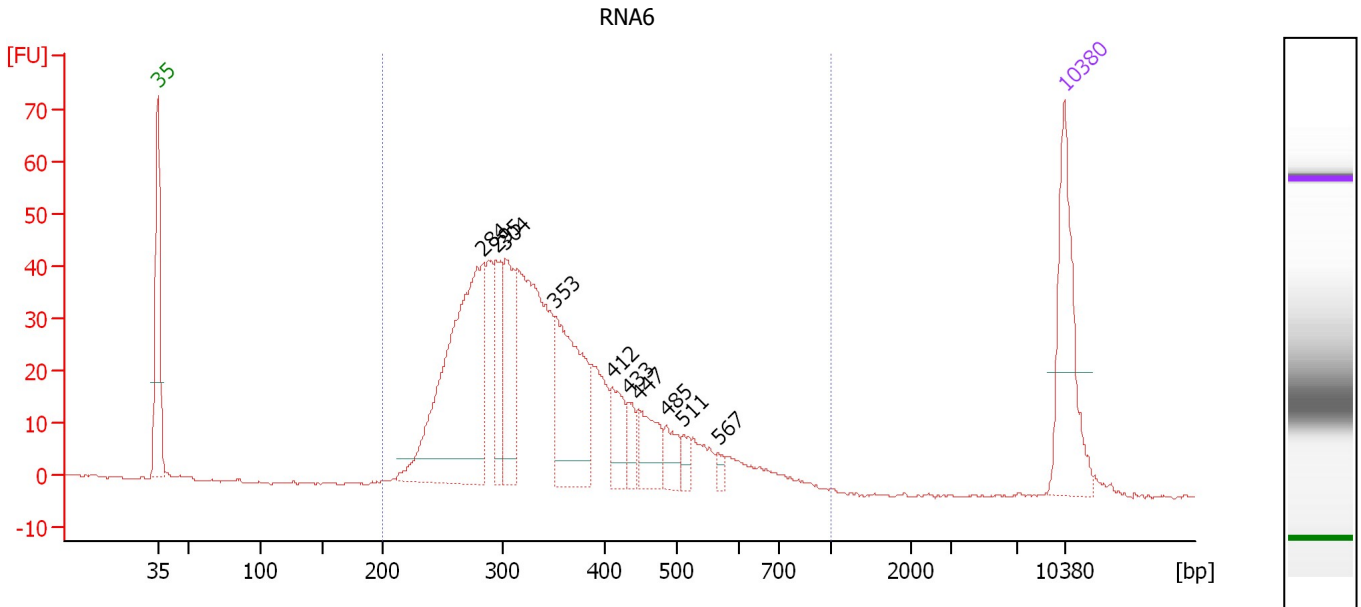
Region table for sample 2 : RNA4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	360	936.13	987.0	4,328.2	99	29.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 3 : RNA6

Number of peaks found: 10 Corr. Area 1: 834.0
 Noise: 0.2

Peak table for sample 3 : RNA6

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	284	286.42	1,527.2		68.13
3	295	56.34	289.2		69.15
4	304	81.59	407.3		69.87
5	353	132.52	569.5		73.73
6	412	34.38	126.6		78.12
7	433	16.08	56.3		79.33
8	447	38.17	129.3		80.15
9	485	20.66	64.5		82.27
10	511	10.99	32.6		83.62
11	567	6.08	16.2		86.27
12	10,380	75.00	10.9	Upper Marker	113.00

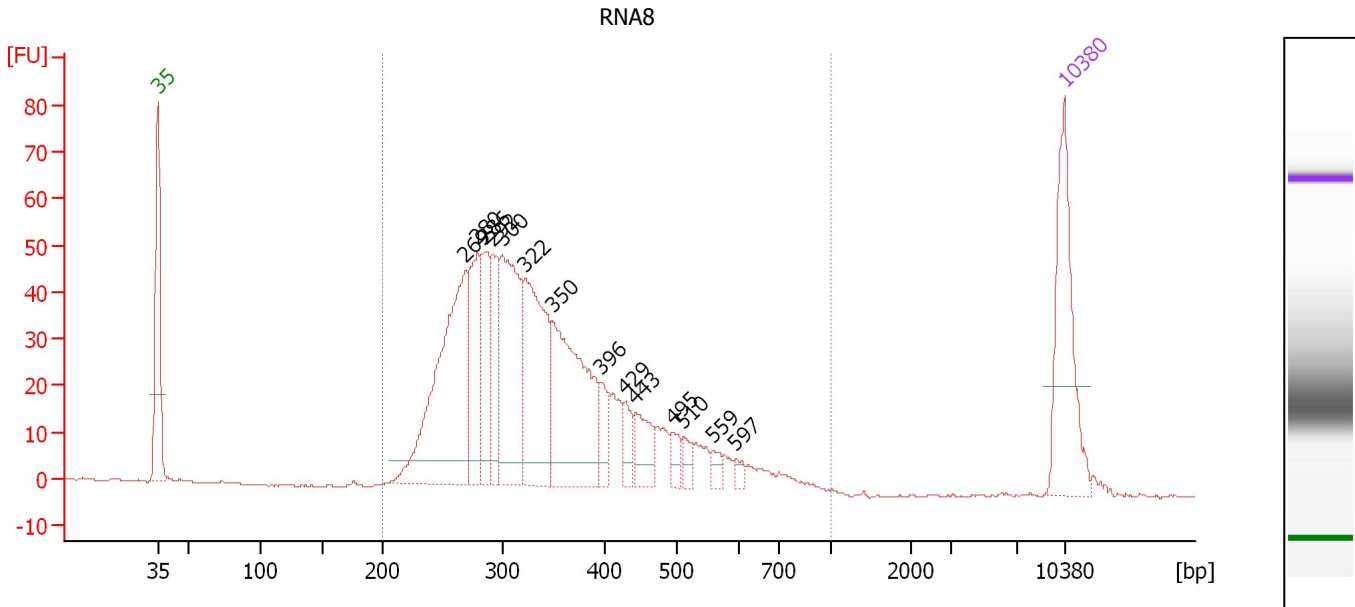
Region table for sample 3 : RNA6

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	356	1,041.54	834.0	4,828.7	99	27.8

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 4 : RNA8

Number of peaks found: 14 Corr. Area 1: 979.7
 Noise: 0.3

Peak table for sample 4 : RNA8

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	269	217.13	1,221.0		66.78
3	280	82.62	447.8		67.71
4	286	54.48	288.6		68.30
5	292	53.00	274.6		68.89
6	300	137.79	694.8		69.63
7	322	133.13	625.7		71.35
8	350	154.01	666.9		73.52
9	396	22.26	85.1		77.16
10	429	17.28	60.9		79.13
11	443	29.19	99.7		79.92
12	495	12.34	37.8		82.82
13	510	8.49	25.2		83.61
14	559	7.57	20.5		85.88
15	597	5.38	13.7		87.65
16	10,380	75.00	10.9	Upper Marker	113.00

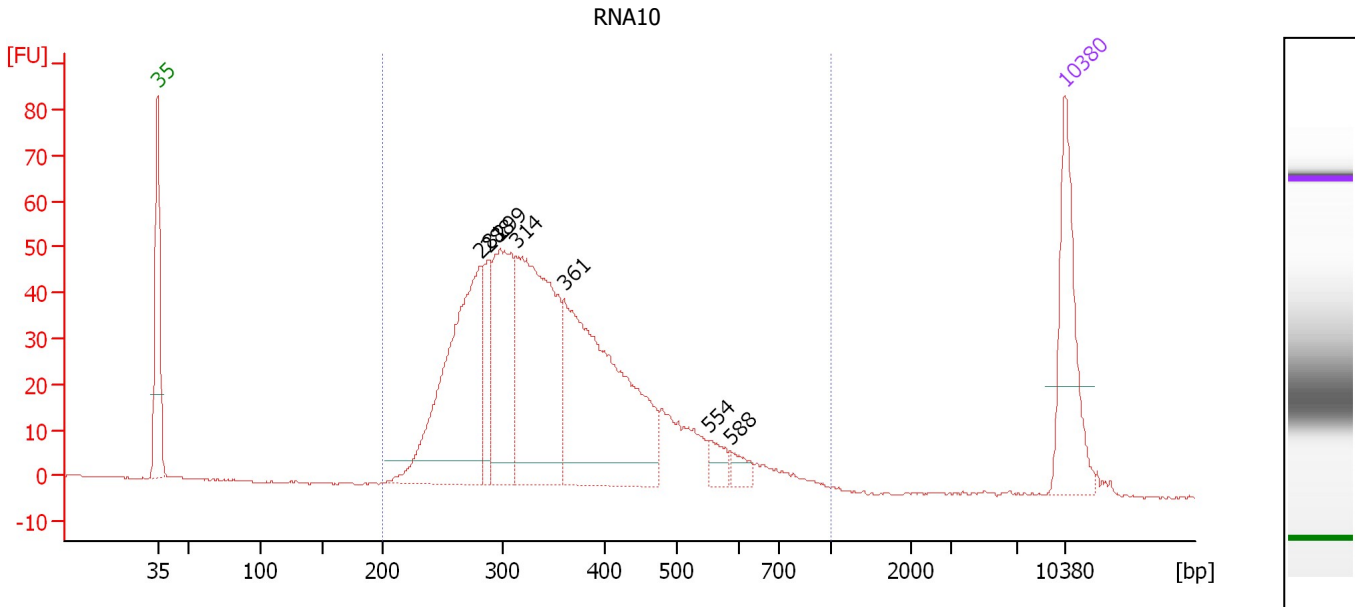
Region table for sample 4 : RNA8

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	354	1,059.01	979.7	4,974.7	98	29.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 5 : RNA10

Number of peaks found: 7 Corr. Area 1: 1,045.1
 Noise: 0.3

Peak table for sample 5 : RNA10

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	281	258.71	1,392.7		67.88
3	288	53.17	279.7		68.49
4	299	144.31	731.3		69.50
5	314	257.36	1,243.4		70.67
6	361	289.68	1,215.2		74.41
7	554	15.33	42.0		85.64
8	588	12.00	30.9		87.26
9	10,380	75.00	10.9	Upper Marker	113.00

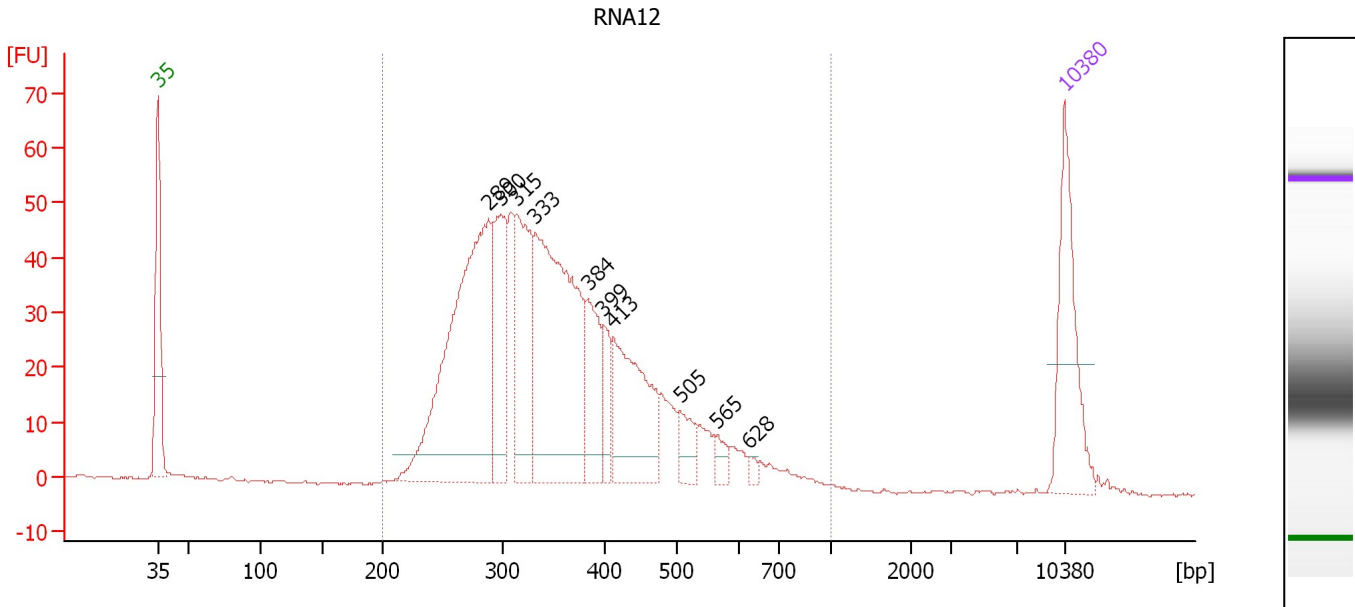
Region table for sample 5 : RNA10

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	364	1,096.57	1,045.1	4,984.8	99	28.6

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 6 : RNA12

Number of peaks found: 10 Corr. Area 1: 1,009.0
 Noise: 0.2

Peak table for sample 6 : RNA12

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	289	359.33	1,884.5		68.57
3	300	103.68	524.4		69.55
4	315	125.03	601.0		70.79
5	333	285.90	1,301.0		72.19
6	384	66.11	260.7		76.22
7	399	29.39	111.5		77.41
8	413	121.57	446.3		78.18
9	505	24.43	73.4		83.35
10	565	10.80	28.9		86.19
11	628	4.59	11.1		88.72
12	10,380	75.00	10.9	Upper Marker	113.00

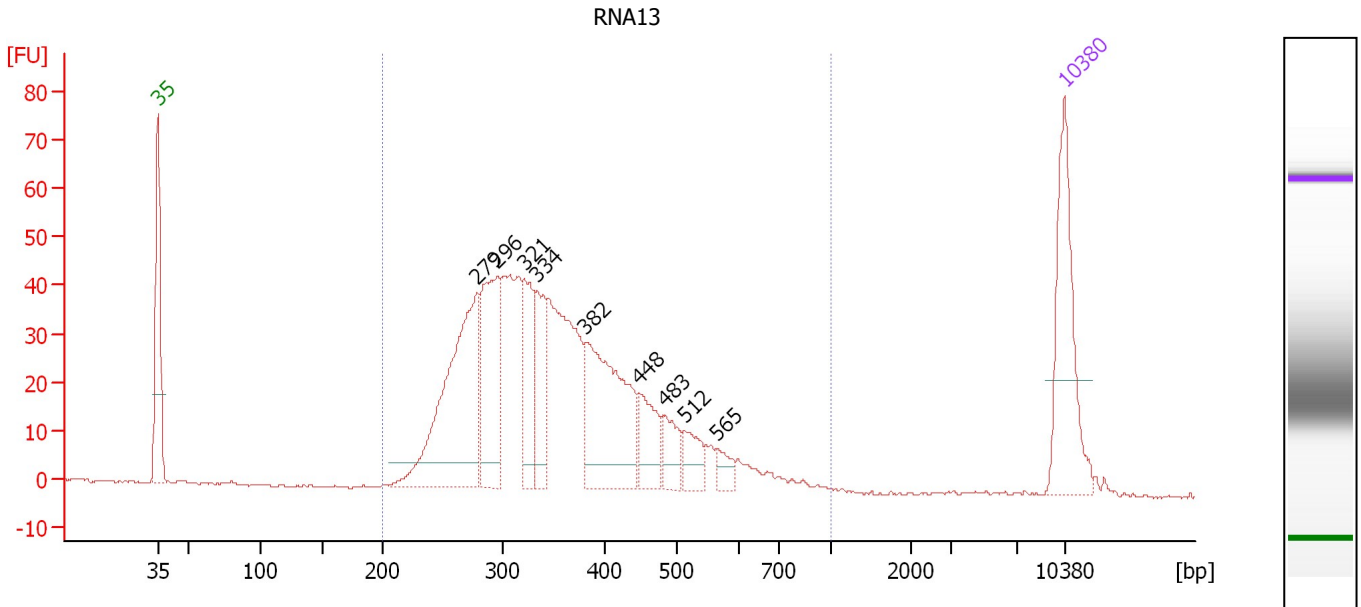
Region table for sample 6 : RNA12

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	365	1,302.26	1,009.0	5,894.3	99	28.2

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 7 : RNA13

Number of peaks found: 9 Corr. Area 1: 882.6
 Noise: 0.3

Peak table for sample 7 : RNA13

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	279	205.34	1,114.9		67.66
3	296	118.30	606.5		69.18
4	321	56.95	268.4		71.28
5	334	55.83	253.2		72.28
6	382	139.99	555.0		76.06
7	448	39.47	133.4		80.20
8	483	26.61	83.5		82.15
9	512	23.40	69.3		83.67
10	565	11.49	30.8		86.19
11	10,380	75.00	10.9	Upper Marker	113.00

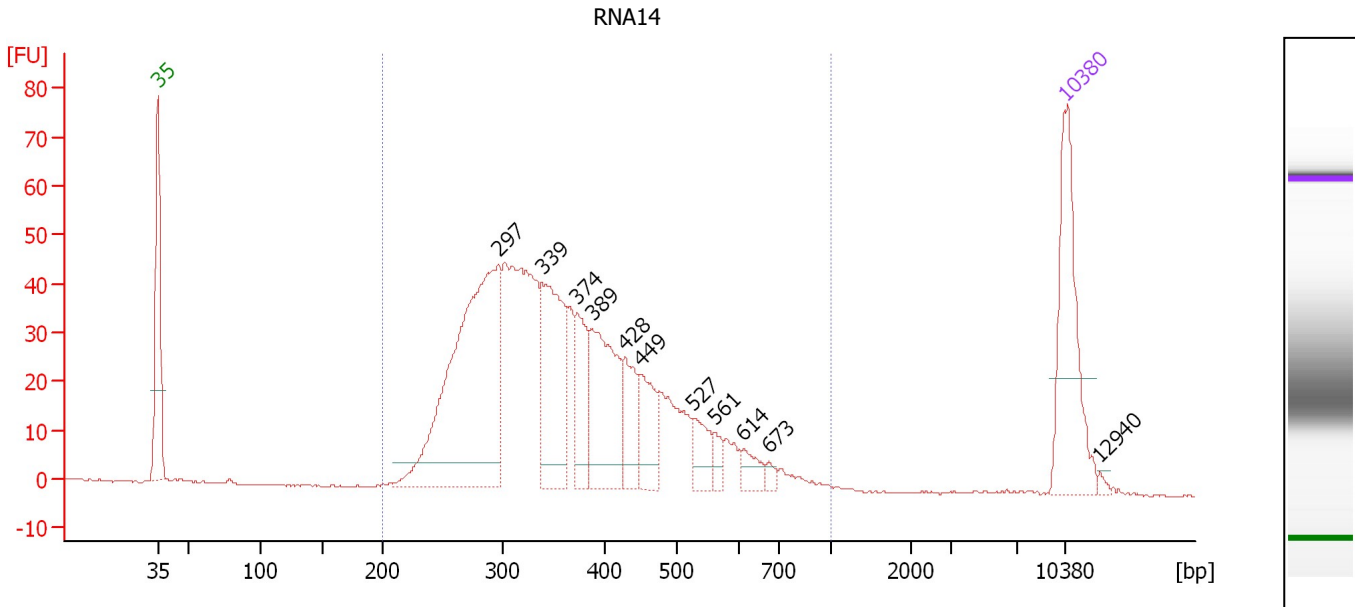
Region table for sample 7 : RNA13

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	364	981.81	882.6	4,440.0	100	27.1

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 8 : RNA14

Number of peaks found: 11 Corr. Area 1: 972.2
 Noise: 0.2

Peak table for sample 8 : RNA14

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	297	304.56	1,553.1		69.33
3	339	110.31	492.7		72.68
4	374	48.44	196.4		75.39
5	389	96.16	374.9		76.56
6	428	37.98	134.4		79.06
7	449	39.35	132.8		80.23
8	527	22.33	64.2		84.38
9	561	9.53	25.7		85.98
10	614	13.70	33.8		88.27
11	673	4.82	10.8		90.18
12	10,380	75.00	10.9	Upper Marker	113.00
13	12,940	0.00	0.0		115.77

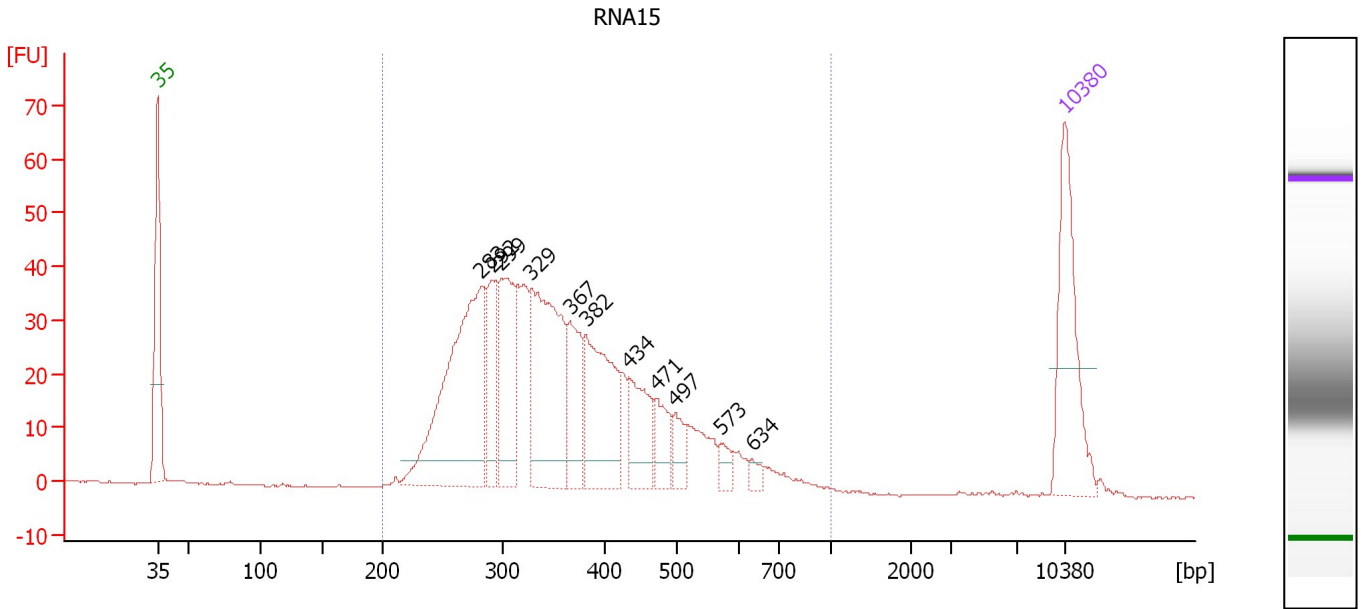
Region table for sample 8 : RNA14

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	375	1,004.99	972.2	4,458.6	99	28.5

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 9 : RNA15

Number of peaks found: 11 Corr. Area 1: 825.4
 Noise: 0.2

Peak table for sample 9 : RNA15

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	283	241.45	1,294.1		68.00
3	292	50.24	260.7		68.86
4	299	103.21	523.0		69.51
5	329	161.38	743.4		71.87
6	367	55.75	230.1		74.88
7	382	104.45	414.0		76.06
8	434	51.63	180.2		79.40
9	471	28.84	92.7		81.49
10	497	21.08	64.3		82.95
11	573	11.07	29.3		86.55
12	634	6.60	15.8		88.91
13	10,380	75.00	10.9	Upper Marker	113.00

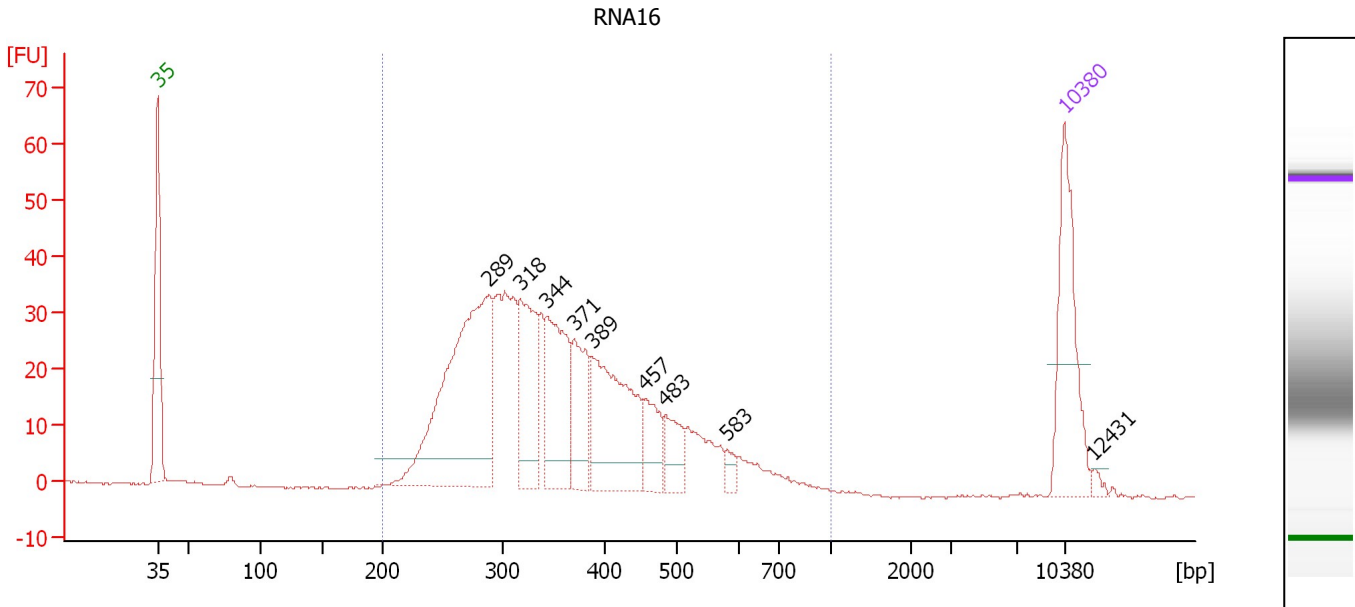
Region table for sample 9 : RNA15

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
200	1,000	370	1,010.62	825.4	4,540.0	99	28.4

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 10 : RNA16

Number of peaks found: 9 Corr. Area 1: 731.5
 Noise: 0.1

Peak table for sample 10 : RNA16

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	289	283.98	1,489.6		68.57
3	318	94.35	449.7		71.00
4	344	104.25	459.2		73.05
5	371	60.70	248.1		75.16
6	389	130.59	508.2		76.62
7	457	35.18	116.7		80.68
8	483	28.47	89.2		82.19
9	583	8.21	21.4		87.00
10	10,380	75.00	10.9	Upper Marker	113.00
11	12,431	0.00	0.0		115.22

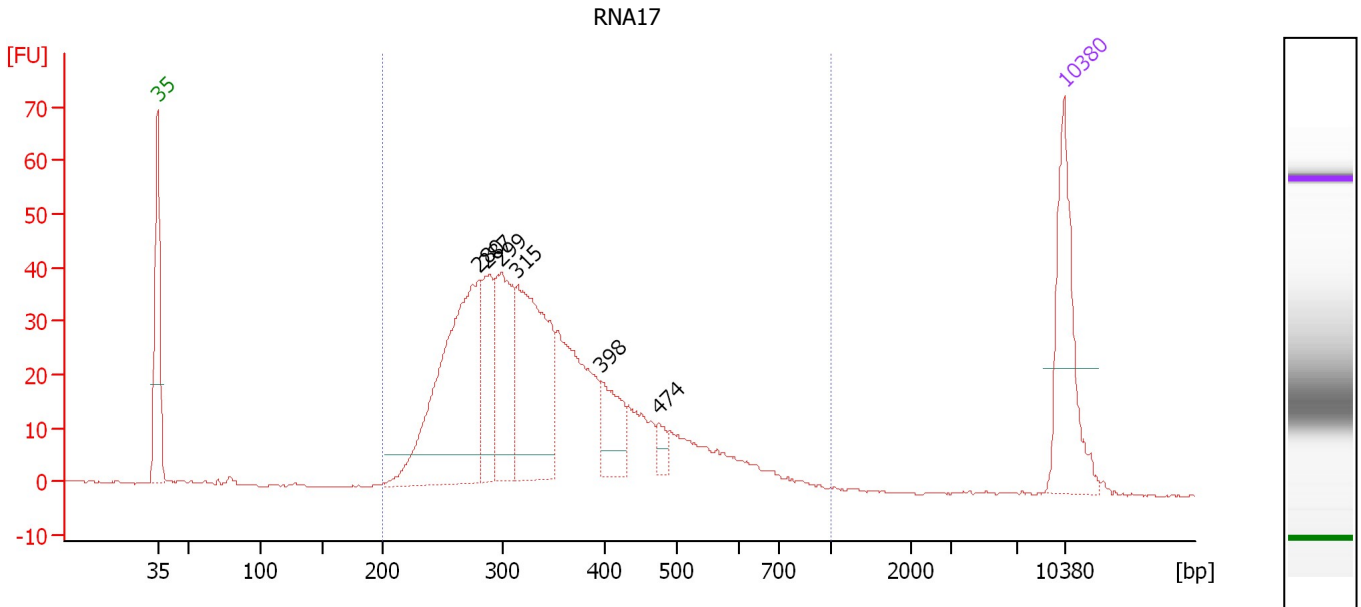
Region table for sample 10 : RNA16

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	367	981.20	731.5	4,438.8	99	28.3

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
 Modified: 1/16/2019 11:24:03 AM

Electropherogram Summary Continued ...



Overall Results for sample 11 : RNA17

Number of peaks found: 6 Corr. Area 1: 781.8
 Noise: 0.2

Peak table for sample 11 : RNA17

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	35	125.00	5,411.3	Lower Marker	43.00
2	280	253.92	1,372.5		67.78
3	287	69.81	368.1		68.43
4	299	107.71	545.6		69.51
5	315	176.21	848.1		70.76
6	398	45.22	172.3		77.27
7	474	11.23	35.9		81.66
8	10,380	75.00	10.9	Upper Marker	113.00

Region table for sample 11 : RNA17

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
200	1,000	357	955.09	781.8	4,454.3	99	29.4

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-01-16\2019-01-16_001.xad

Created: 1/16/2019 10:42:22 AM
Modified: 1/16/2019 11:24:03 AM

Gel Image

