

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_001.xad

Created: 8/2/2019 10:07:58 AM
Modified: 8/2/2019 10:50:07 AM

Electrophoresis File Run Summary

Instrument Information:

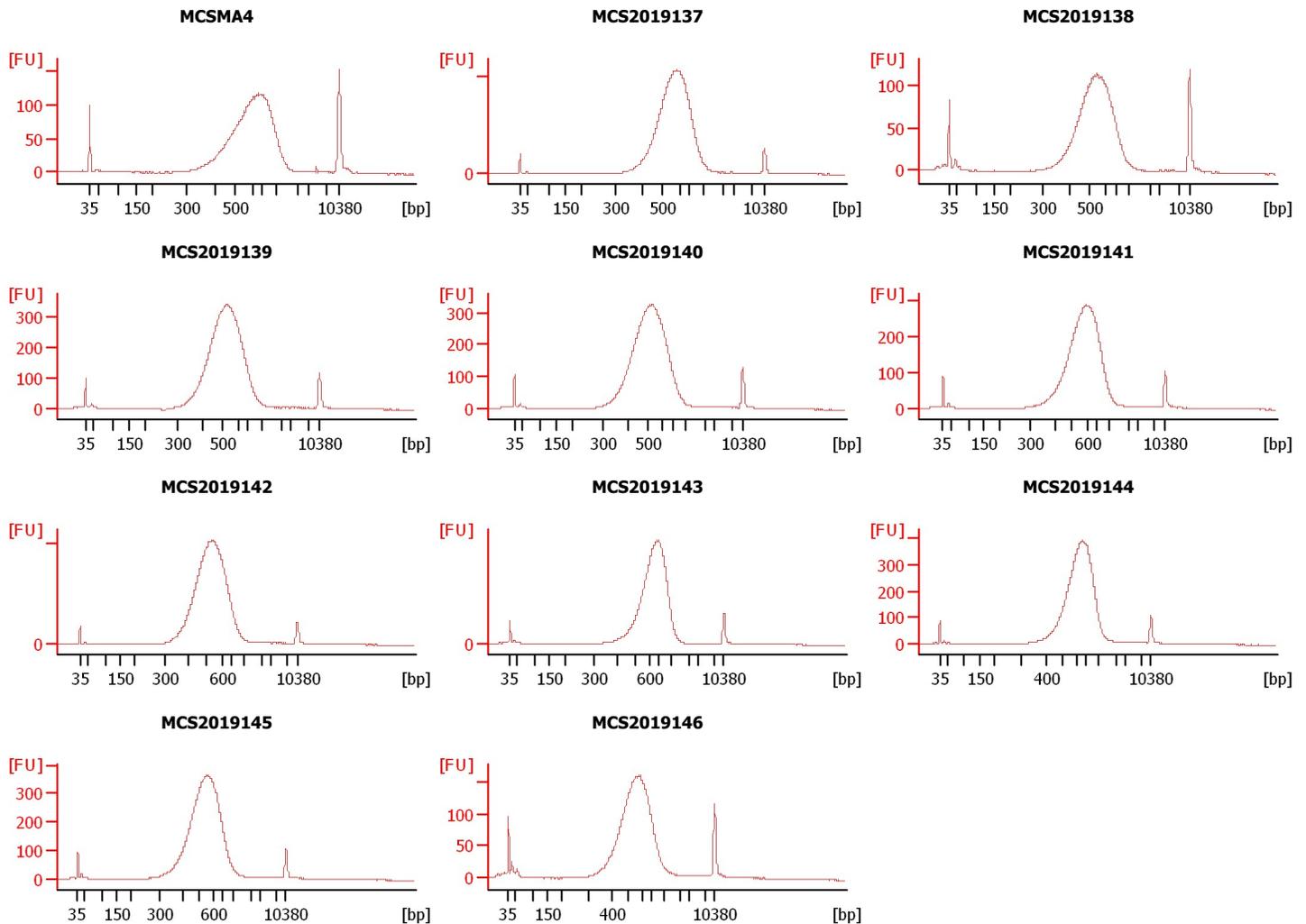
Instrument Name: DE34903152 Firmware: C.01.069
Serial#: DE34903152 Type: G2938C

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:



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Electrophoresis File Run Summary (Chip Summary)

Sample Name	Sample Comment	Rest. Digest	Status	Observation	Result Label	Result Color
MCSMA4		<input type="checkbox"/>	✓			
MCS2019137		<input type="checkbox"/>	✓			
MCS2019138		<input type="checkbox"/>	✓			
MCS2019139		<input type="checkbox"/>	✓			
MCS2019140		<input type="checkbox"/>	✓			
MCS2019141		<input type="checkbox"/>	✓			
MCS2019142		<input type="checkbox"/>	✓			
MCS2019143		<input type="checkbox"/>	✓			
MCS2019144		<input type="checkbox"/>	✓			
MCS2019145		<input type="checkbox"/>	✓			
MCS2019146		<input type="checkbox"/>	✓			
Ladder		<input type="checkbox"/>	✓			

Chip Lot #

Reagent Kit Lot #

Chip Comments :

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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

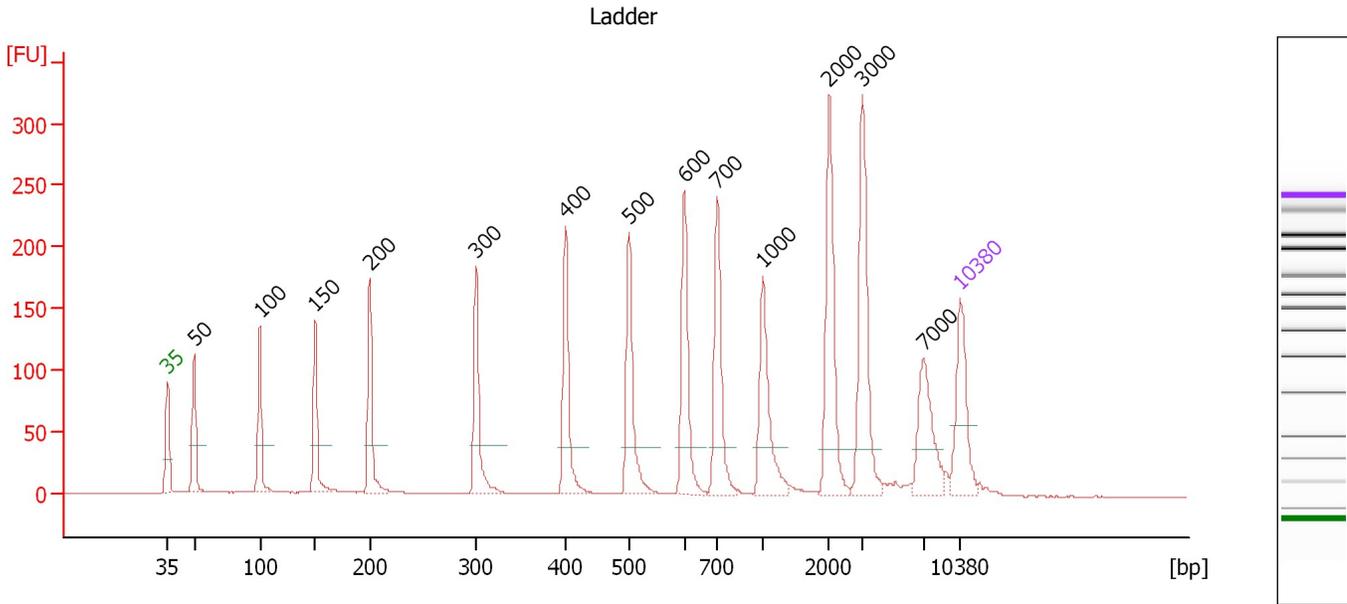
Ladder

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

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Electropherogram Summary



Overall Results for Ladder

Noise: 0.3

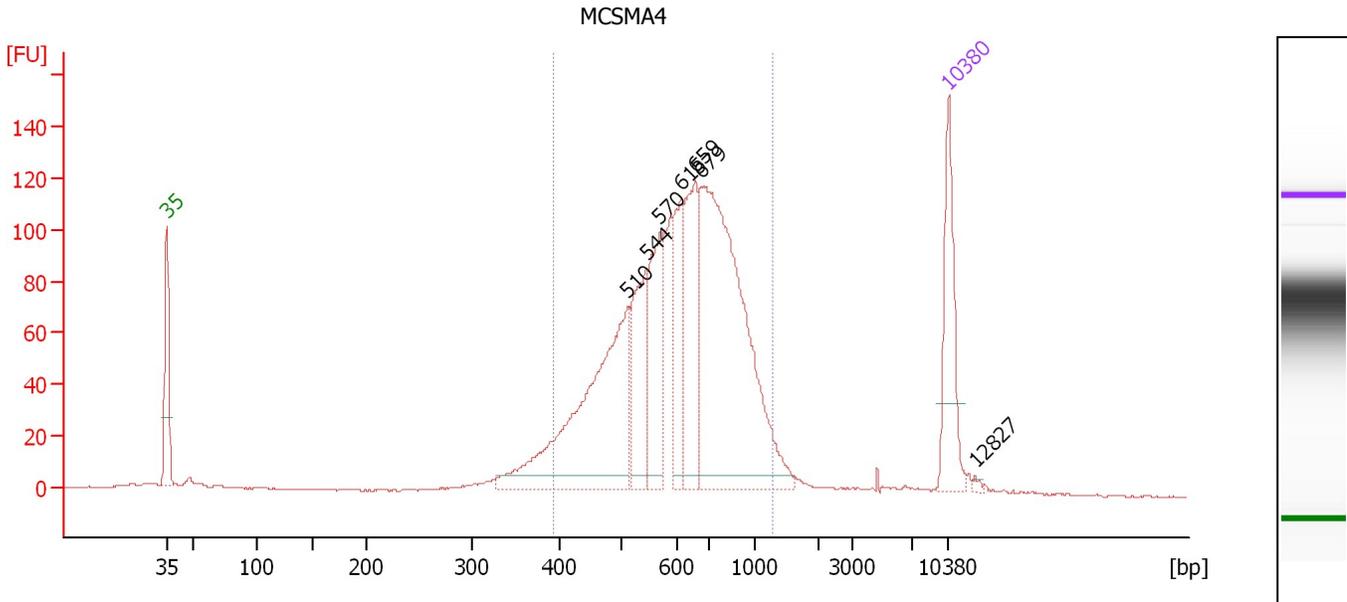
Peak table for Ladder

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	51.15
4	150	150.00	1,515.2	Ladder Peak	56.03
5	200	150.00	1,136.4	Ladder Peak	60.85
6	300	150.00	757.6	Ladder Peak	70.27
7	400	150.00	568.2	Ladder Peak	78.14
8	500	150.00	454.5	Ladder Peak	83.76
9	600	150.00	378.8	Ladder Peak	88.64
10	700	150.00	324.7	Ladder Peak	91.54
11	1,000	150.00	227.3	Ladder Peak	95.57
12	2,000	150.00	113.6	Ladder Peak	101.43
13	3,000	150.00	75.8	Ladder Peak	104.38
14	7,000	150.00	32.5	Ladder Peak	109.72
15	10,380	75.00	10.9	Upper Marker	113.00

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Electropherogram Summary Continued ...



Overall Results for sample 1 : MCSMA4

Number of peaks found: 7 Corr. Area 1: 1,698.3
 Noise: 0.3

Peak table for sample 1 : MCSMA4

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	510	304.64	904.4		84.27
3	544	106.28	295.8		85.93
4	570	106.42	283.0		87.17
5	615	82.56	203.5		89.07
6	659	122.08	280.7		90.35
7	679	437.47	976.9		90.92
8	10,380	75.00	10.9	Upper Marker	113.00
9	12,827	0.00	0.0		115.37

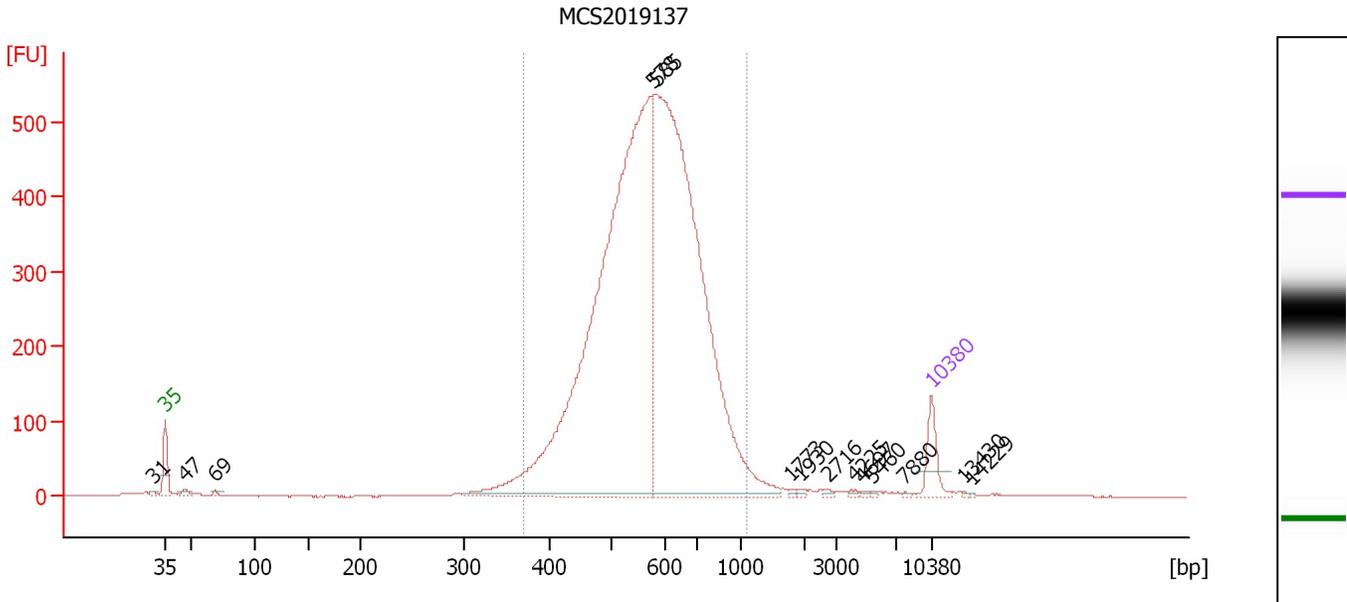
Region table for sample 1 : MCSMA4

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
394	1,287	654	1,185.09	1,698.3	2,967.8	89	26.3

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Electropherogram Summary Continued ...



Overall Results for sample 2 : MCS2019137

Number of peaks found: 14 Corr. Area 1: 6,711.7
 Noise: 0.3

Peak table for sample 2 : MCS2019137

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.88
2	35	125.00	5,411.3	Lower Marker	43.00
3	47	23.11	748.1		44.84
4	69	11.01	241.6		47.56
5	578	2,893.44	7,580.2		87.58
6	585	2,488.84	6,442.6		87.92
7	1,773	4.88	4.2		100.10
8	1,930	5.09	4.0		101.02
9	2,716	5.17	2.9		103.54
10	4,225	4.68	1.7		106.01
11	4,697	4.05	1.3		106.65
12	5,460	3.15	0.9		107.66
13	7,880	3.20	0.6		110.57
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,430	0.00	0.0		115.96
16	14,229	0.00	0.0		116.74

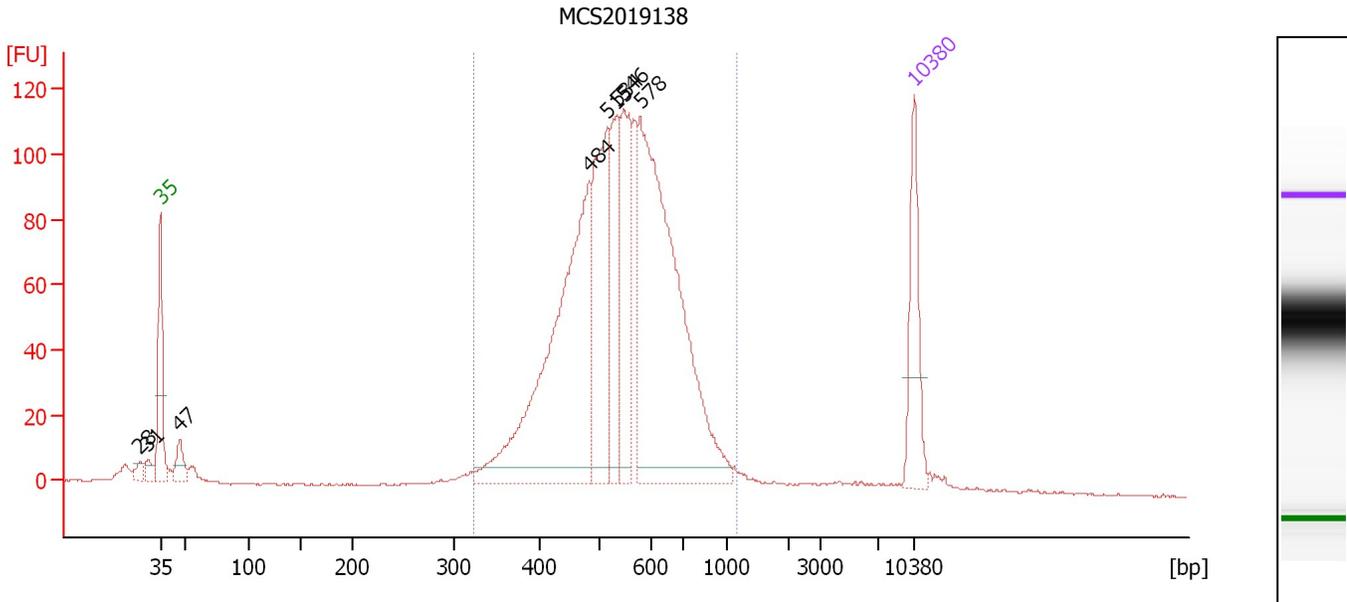
Region table for sample 2 : MCS2019137

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
370	1,109	590	5,466.02	6,711.7	14,715.5	94	20.0

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Electropherogram Summary Continued ...



Overall Results for sample 3 : MCS2019138

Number of peaks found: 8 Corr. Area 1: 1,636.5
 Noise: 0.3

Peak table for sample 3 : MCS2019138

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		41.08
2	31	0.00	0.0		41.87
3	35	125.00	5,411.3	Lower Marker	43.00
4	47	37.00	1,201.2		44.82
5	484	474.81	1,487.0		82.85
6	515	220.66	649.6		84.48
7	534	116.48	330.6		85.41
8	546	141.63	393.0		86.00
9	578	521.78	1,366.9		87.58
10	10,380	75.00	10.9	Upper Marker	113.00

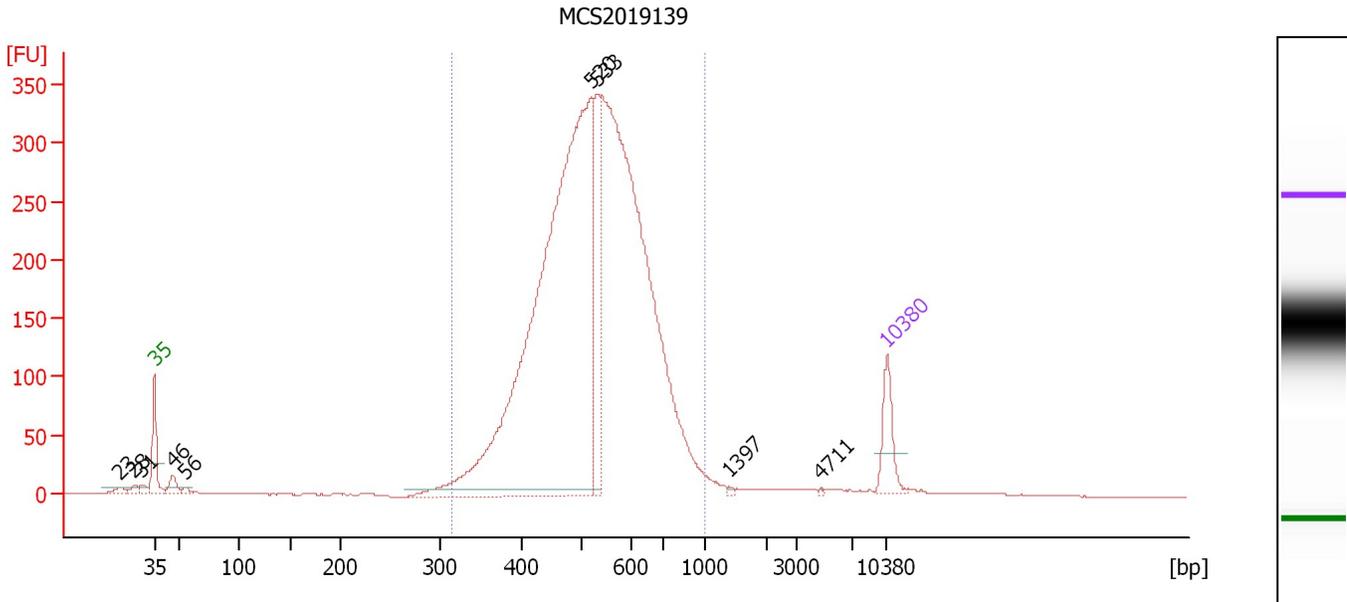
Region table for sample 3 : MCS2019138

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
324	1,149	553	1,602.50	1,636.5	4,634.6	91	21.2

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Electropherogram Summary Continued ...



Overall Results for sample 4 : MCS2019139

Number of peaks found: 9 Corr. Area 1: 4,818.1
 Noise: 0.3

Peak table for sample 4 : MCS2019139

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	23	0.00	0.0		39.71
2	28	0.00	0.0		41.07
3	31	0.00	0.0		41.83
4	35	125.00	5,411.3	Lower Marker	43.00
5	46	42.82	1,399.6		44.77
6	56	14.03	382.6		45.99
7	520	2,193.43	6,396.5		84.72
8	533	275.94	784.3		85.38
9	1,397	3.99	4.3		97.90
10	4,711	2.01	0.6		106.66
11	10,380	75.00	10.9	Upper Marker	113.00

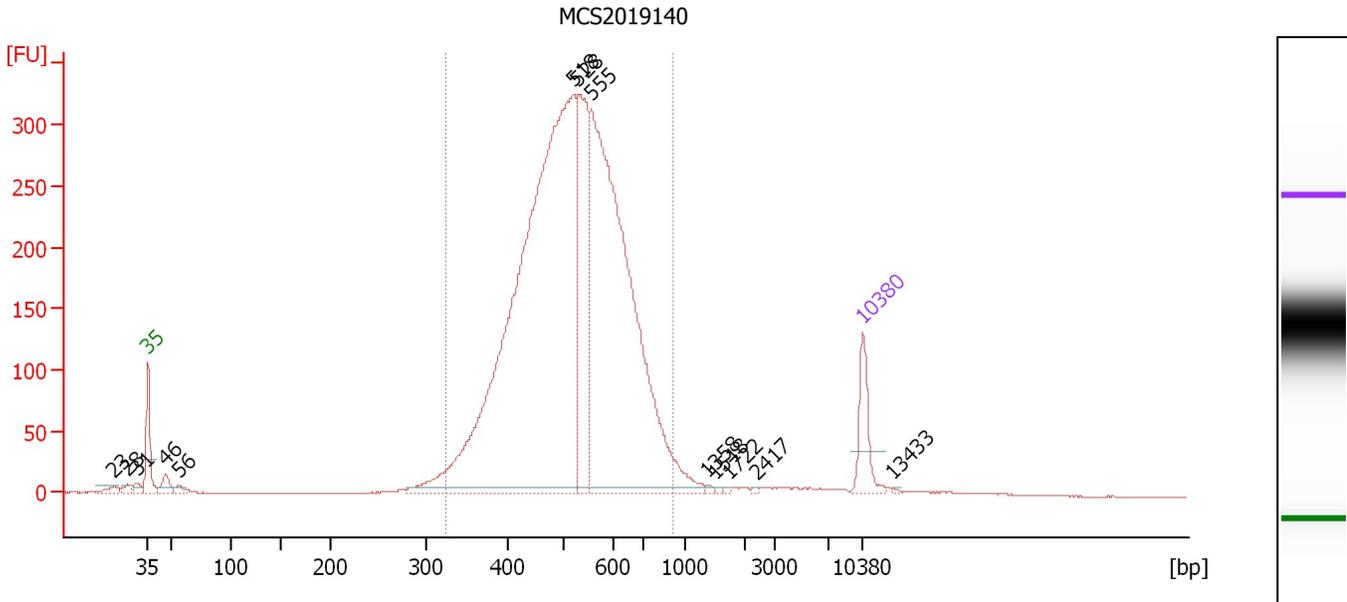
Region table for sample 4 : MCS2019139

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
315	1,000	534	4,293.47	4,818.1	12,784.5	94	19.8

Assay Class: High Sensitivity DNA Assay
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Electropherogram Summary Continued ...



Overall Results for sample 5 : MCS2019140

Number of peaks found: 13 Corr. Area 1: 4,744.6
 Noise: 0.2

Peak table for sample 5 : MCS2019140

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	23	0.00	0.0		39.67
2	28	0.00	0.0		41.03
3	31	0.00	0.0		41.86
4	35	125.00	5,411.3	Lower Marker	43.00
5	46	38.58	1,271.3		44.71
6	56	15.08	409.5		46.01
7	518	2,168.87	6,347.5		84.63
8	528	399.15	1,144.6		85.15
9	555	1,382.04	3,772.7		86.44
10	1,358	4.24	4.7		97.67
11	1,518	2.43	2.4		98.61
12	1,722	2.72	2.4		99.80
13	2,417	2.60	1.6		102.66
14	10,380	75.00	10.9	Upper Marker	113.00
15	13,433	0.00	0.0		115.96

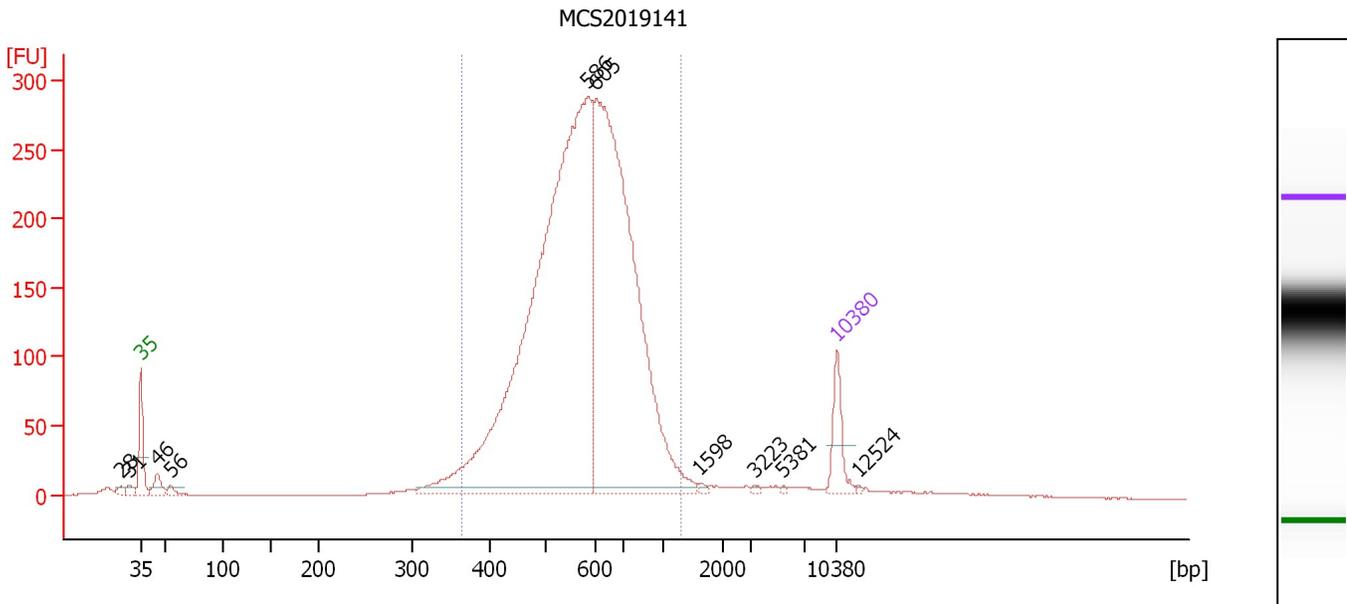
Region table for sample 5 : MCS2019140

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
325	920	524	3,971.00	4,744.6	12,031.8	93	19.3

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Electropherogram Summary Continued ...



Overall Results for sample 6 : MCS2019141

Number of peaks found: 10 Corr. Area 1: 3,807.5
 Noise: 0.3

Peak table for sample 6 : MCS2019141

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	28	0.00	0.0		40.97
2	31	0.00	0.0		41.88
3	35	125.00	5,411.3	Lower Marker	43.00
4	46	52.84	1,756.0		44.65
5	56	21.69	591.7		45.99
6	586	2,276.14	5,880.3		87.98
7	605	1,600.67	4,009.5		88.78
8	1,598	5.73	5.4		99.07
9	3,223	3.90	1.8		104.68
10	5,381	2.65	0.7		107.56
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,524	0.00	0.0		115.08

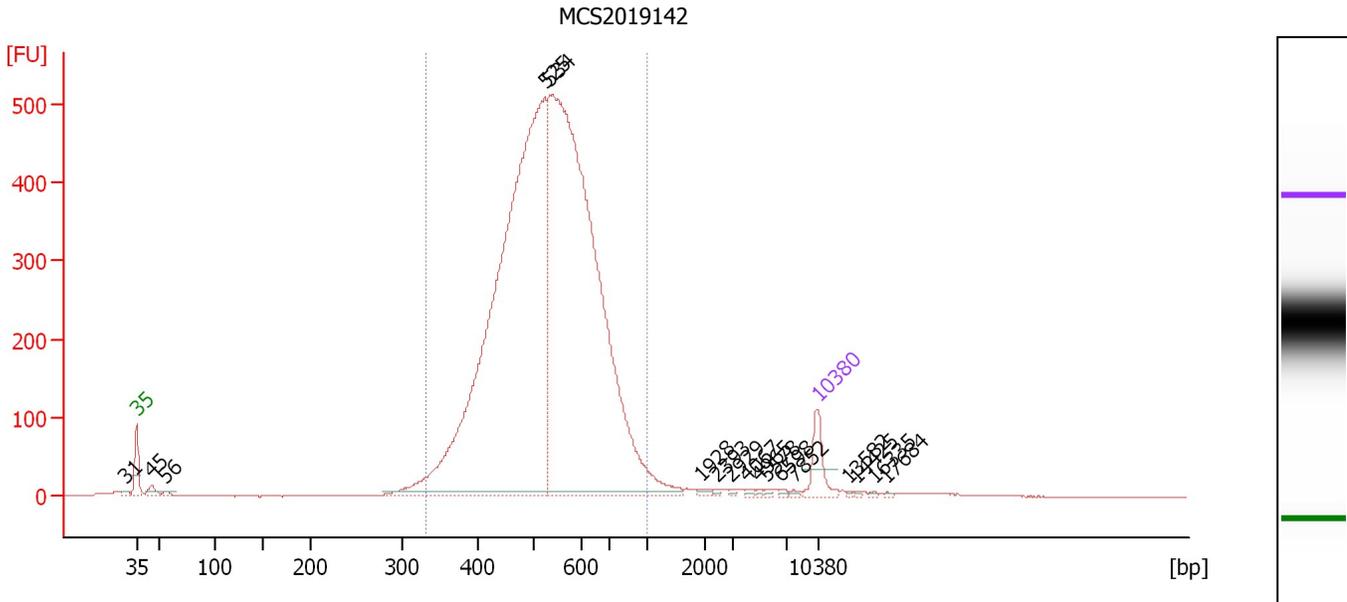
Region table for sample 6 : MCS2019141

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
363	1,294	602	4,070.19	3,807.5	10,872.7	91	22.9

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Electropherogram Summary Continued ...



Overall Results for sample 7 : MCS2019142

Number of peaks found: 17 Corr. Area 1: 7,087.0
 Noise: 0.2

Peak table for sample 7 : MCS2019142

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.86
2	35	125.00	5,411.3	Lower Marker	43.00
3	45	33.10	1,111.3		44.58
4	56	13.09	356.3		46.00
5	525	2,936.45	8,475.6		84.98
6	534	2,912.17	8,264.6		85.41
7	1,928	9.00	7.1		101.01
8	2,393	4.35	2.8		102.59
9	2,929	5.05	2.6		104.17
10	4,067	6.18	2.3		105.80
11	4,965	3.91	1.2		107.00
12	5,578	4.32	1.2		107.82
13	6,598	5.20	1.2		109.18
14	7,852	5.63	1.1		110.55
15	10,380	75.00	10.9	Upper Marker	113.00
16	13,582	0.00	0.0		116.11
17	14,425	0.00	0.0		116.93
18	16,335	0.00	0.0		118.78
19	17,684	0.00	0.0		120.09

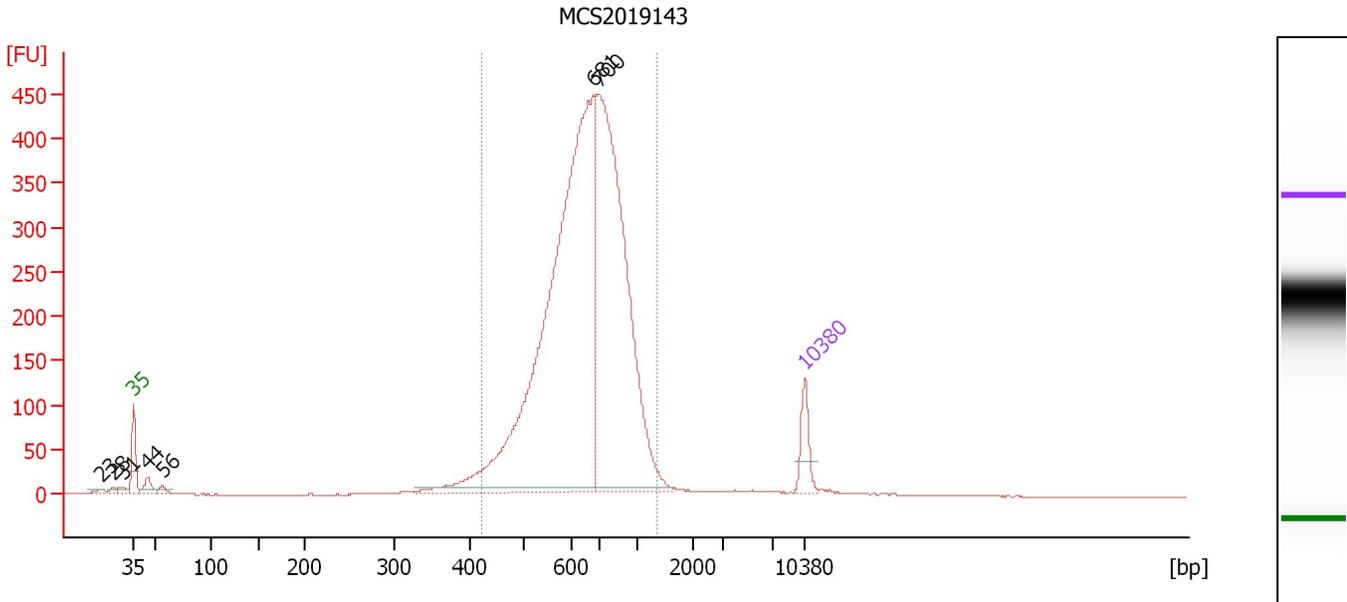
Region table for sample 7 : MCS2019142

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
331	1,000	540	5,775.79	7,087.0	16,990.4	95	19.8

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Electropherogram Summary Continued ...



Overall Results for sample 8 : MCS2019143

Number of peaks found: 7 Corr. Area 1: 4,516.8
 Noise: 0.3

Peak table for sample 8 : MCS2019143

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	23	0.00	0.0		39.57
2	28	0.00	0.0		40.90
3	31	0.00	0.0		41.84
4	35	125.00	5,411.3	Lower Marker	43.00
5	44	61.56	2,109.5		44.44
6	56	25.00	681.8		45.99
7	681	2,467.50	5,493.4		90.98
8	700	1,626.16	3,521.8		91.53
9	10,380	75.00	10.9	Upper Marker	113.00

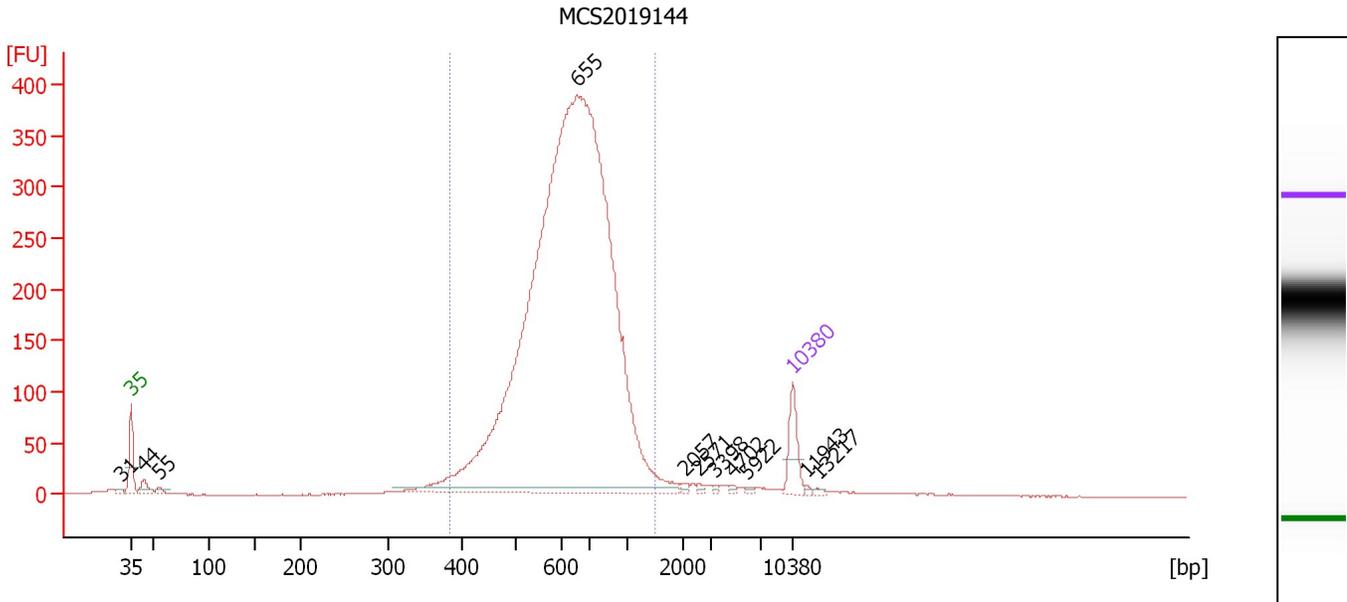
Region table for sample 8 : MCS2019143

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
420	1,353	689	4,049.77	4,516.8	9,412.1	92	22.5

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Electropherogram Summary Continued ...



Overall Results for sample 9 : MCS2019144

Number of peaks found: 11 Corr. Area 1: 4,340.4
 Noise: 0.2

Peak table for sample 9 : MCS2019144

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	31	0.00	0.0		41.88
2	35	125.00	5,411.3	Lower Marker	43.00
3	44	47.63	1,653.9		44.35
4	55	19.19	524.2		45.98
5	655	4,299.77	9,939.1		90.25
6	2,057	6.36	4.7		101.60
7	2,571	5.85	3.4		103.11
8	3,398	4.65	2.1		104.91
9	4,702	4.31	1.4		106.65
10	5,922	5.08	1.3		108.28
11	10,380	75.00	10.9	Upper Marker	113.00
12	11,943	0.00	0.0		114.52
13	13,217	0.00	0.0		115.75

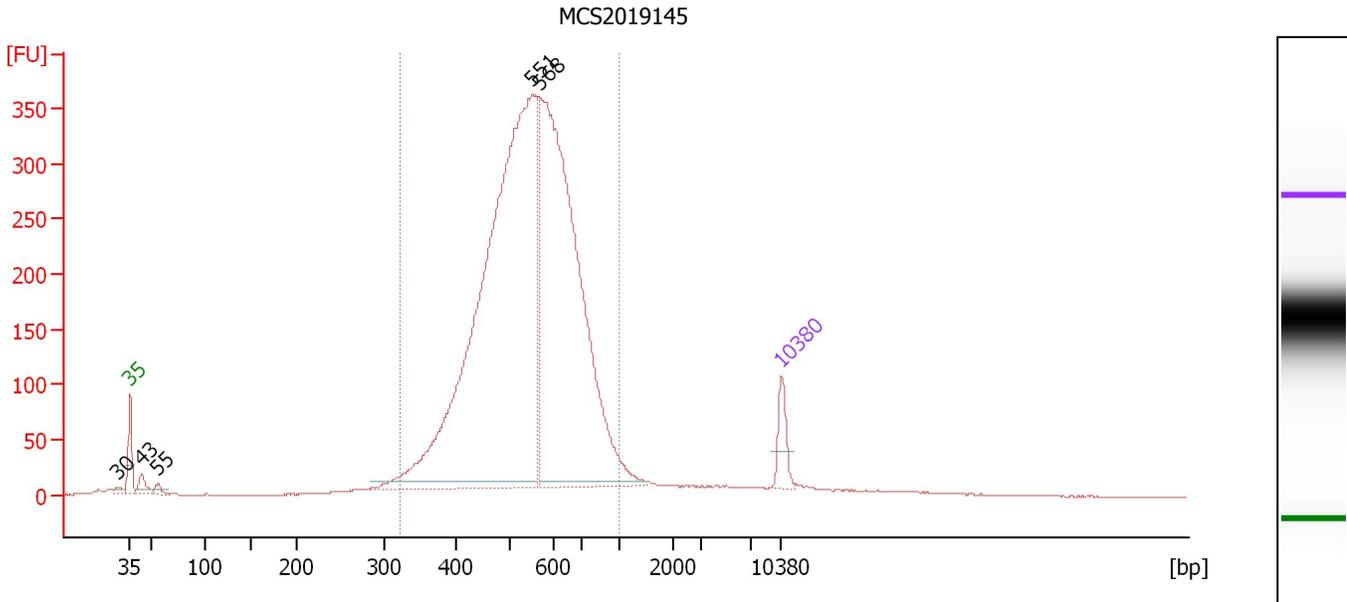
Region table for sample 9 : MCS2019144

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of Ior Total	Size distribution in CV [%]
383	1,485	668	4,337.37	4,340.4	10,498.9	93	24.7

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Electropherogram Summary Continued ...



Overall Results for sample 10 : MCS2019145

Number of peaks found: 5 Corr. Area 1: 4,989.3
 Noise: 0.3

Peak table for sample 10 : MCS2019145

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	30	0.00	0.0		41.69
2	35	125.00	5,411.3	Lower Marker	43.00
3	43	66.45	2,339.4		44.26
4	55	30.34	830.1		45.97
5	551	3,032.14	8,339.2		86.24
6	568	2,080.73	5,545.8		87.10
7	10,380	75.00	10.9	Upper Marker	113.00

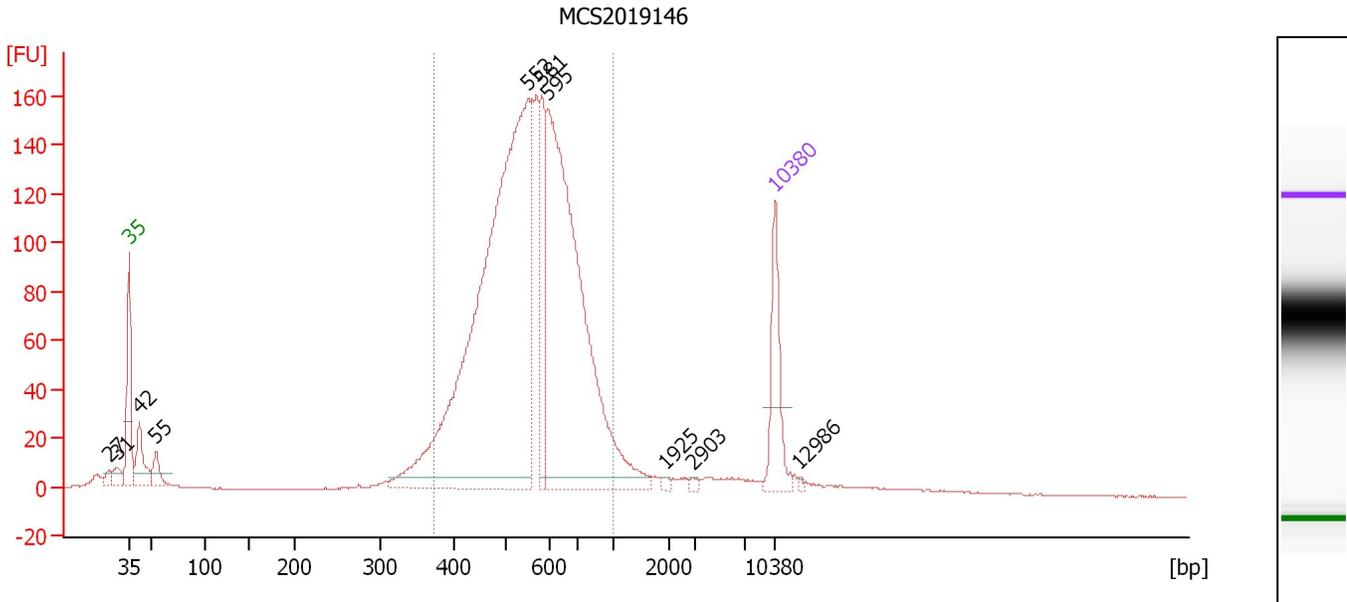
Region table for sample 10 : MCS2019145

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
321	1,000	556	5,482.83	4,989.3	15,781.5	91	20.8

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Electropherogram Summary Continued ...



Overall Results for sample 11 : MCS2019146

Number of peaks found: 10 Corr. Area 1: 2,126.8
 Noise: 0.3

Peak table for sample 11 : MCS2019146

Peak	Size [bp]	Conc. [pg/μl]	Molarity [pmol/l]	Observations	Aligned Migration Time [s]
1	27	0.00	0.0		40.82
2	31	0.00	0.0		41.74
3	35	125.00	5,411.3	Lower Marker	43.00
4	42	76.68	2,766.7		44.09
5	55	34.98	962.4		45.93
6	552	1,050.24	2,885.0		86.28
7	581	118.30	308.5		87.71
8	595	676.83	1,722.9		88.40
9	1,925	3.28	2.6		100.99
10	2,903	3.13	1.6		104.09
11	10,380	75.00	10.9	Upper Marker	113.00
12	12,986	0.00	0.0		115.53

Region table for sample 11 : MCS2019146

From [bp]	To [bp]	Average Size [bp]	Conc. [pg/μl]	Corr. Area	Molarity [pmol/l]	Co % of lor Total	Size distribution in CV [%]
374	1,000	571	1,953.94	2,126.8	5,437.7	85	20.3

Assay Class: High Sensitivity DNA Assay
Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_001.xad

Created: 8/2/2019 10:07:58 AM
Modified: 8/2/2019 10:50:07 AM

Gel Image

Assay Class: High Sensitivity DNA Assay
 Data Path: C:\... bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_001.xad

Created: 8/2/2019 10:07:58 AM
 Modified: 8/2/2019 10:50:07 AM

Run Logbook

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		8/2/2019 10:49:16 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\data\2019-08-02\2019-08-02_001.xad)		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938C		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE34903152		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		8/2/2019 10:08:03 AM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1