

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102919\
 Data File : VN059003.D
 Acq On : 29 Oct 2019 12:27
 Operator : JC/SP
 Sample : K5587-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 30 03:55:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	387970	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	612689	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	557973	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	197430	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	270835	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
35) Dibromofluoromethane	7.57	113	196814	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
50) Toluene-d8	10.08	98	782058	50.01	ug/l	0.00
Spiked Amount			Recovery	=	100.02%	
62) 4-Bromofluorobenzene	12.40	95	246491	42.92	ug/l	0.00
Spiked Amount			Recovery	=	85.84%	

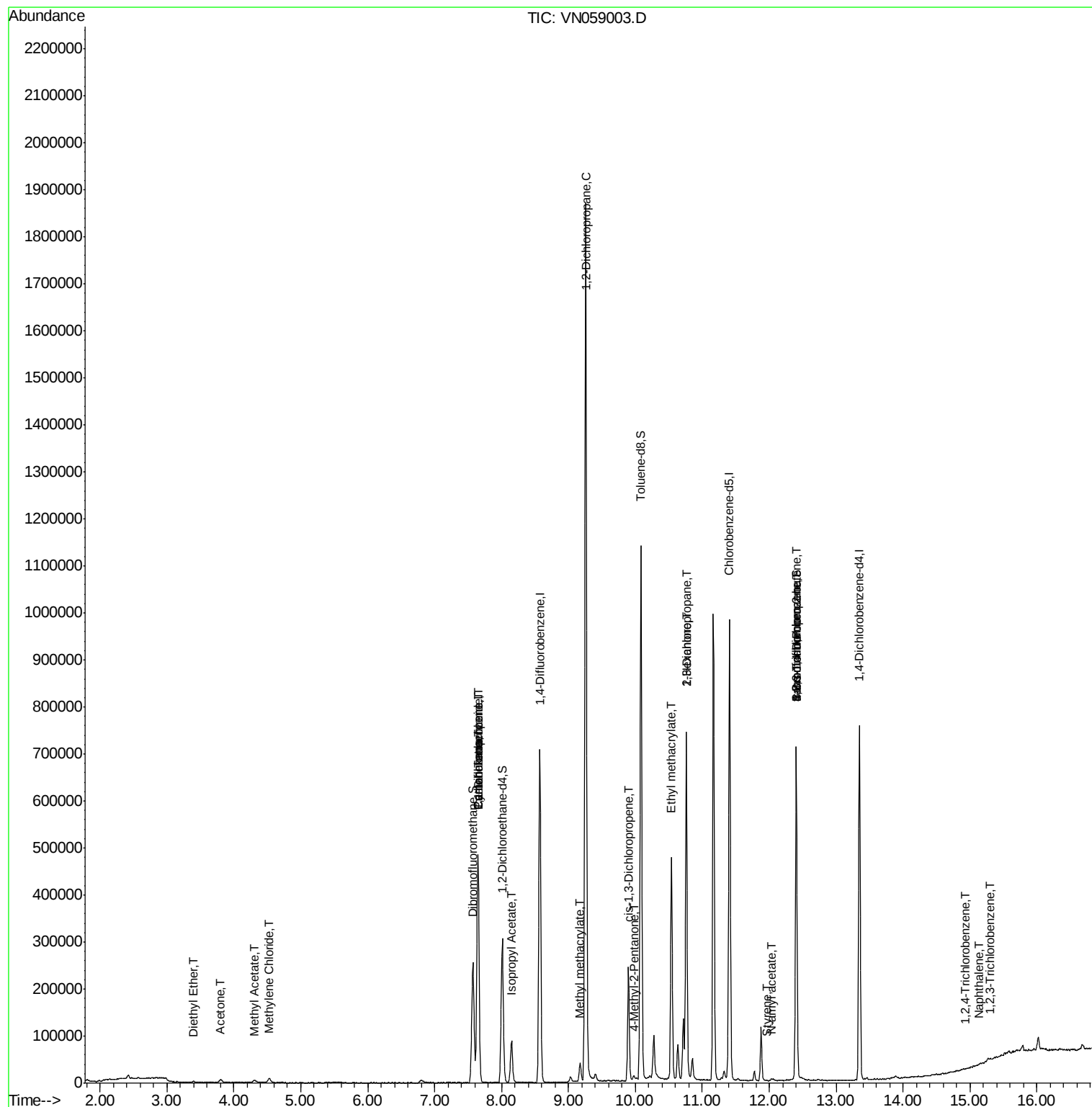
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.39	74	646	0.254	ug/l	80
16) Acetone	3.80	43	12918	4.594	ug/l	94
18) Methyl Acetate	4.31	43	9643	1.508	ug/l	94
20) Methylene Chloride	4.53	84	6837	1.424	ug/l	94
31) Cyclohexane	7.64	56	8721	1.066	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32070	5.113	ug/l #	50
38) Carbon Tetrachloride	7.65	117	38450	5.950	ug/l #	16
43) Isopropyl Acetate	8.15	43	103621	9.453	ug/l #	93
45) 1,2-Dichloropropane	9.25	63	2368	0.469	ug/l #	44
48) Methyl methacrylate	9.17	41	6078	1.222	ug/l #	14
51) 4-Methyl-2-Pentanone	9.98	43	5852	0.914	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	41456	5.326	ug/l #	63
56) Ethyl methacrylate	10.54	69	2025	2.354	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	7309	0.925	ug/l #	43
59) 2-Hexanone	10.76	43	111900	22.618	ug/l #	53
70) Styrene	11.97	104	155	1.725	ug/l #	24
71) Bromoform	12.41	173	1519	0.457	ug/l #	1
74) N-amyl acetate	12.03	43	2113	0.323	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	128050	27.985	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128050	72.903	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	303	2.594	ug/l #	75
95) Naphthalene	15.14	128	1325	2.337	ug/l #	70
96) 1,2,3-Trichlorobenzene	15.30	180	289	2.466	ug/l #	41

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

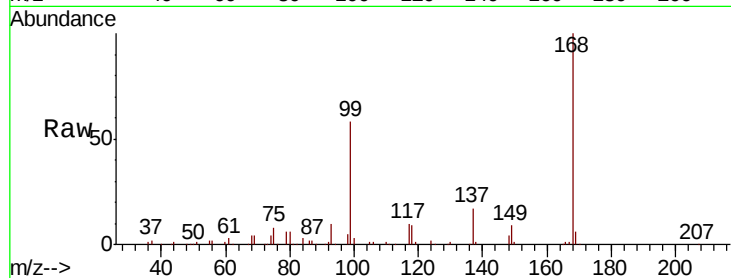
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 387970

Ion Ratio Lower Upper

168 100

99 57.9 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

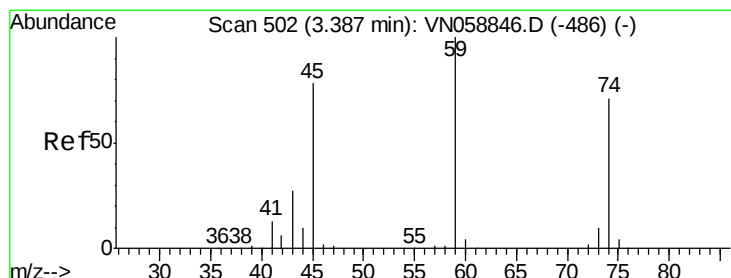
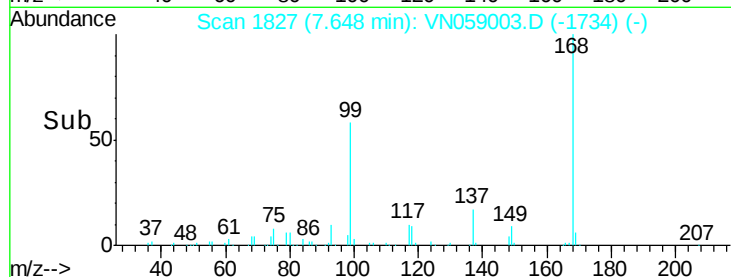
150000

100000

50000

0

Time-->



#8

Diethyl Ether

Concen: 0.254 ug/l

RT: 3.39 min Scan# 502

Delta R.T. 0.00 min

Lab File: VN059003.D

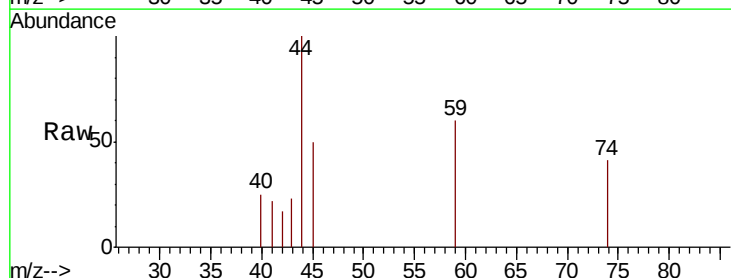
Acq: 29 Oct 2019 12:27

Tgt Ion: 74 Resp: 646

Ion Ratio Lower Upper

74 100

45 131.1 54.9 164.5



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

600

500

400

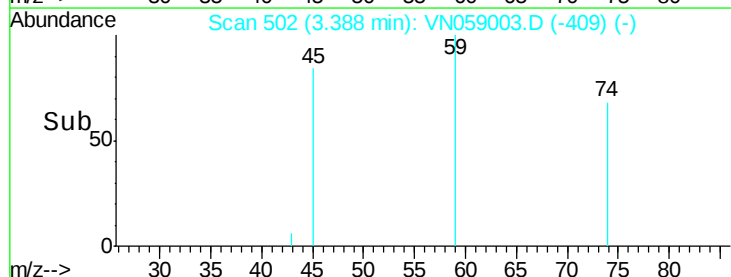
300

200

100

0

Time-->





#16

Acetone

Concen: 4.594 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

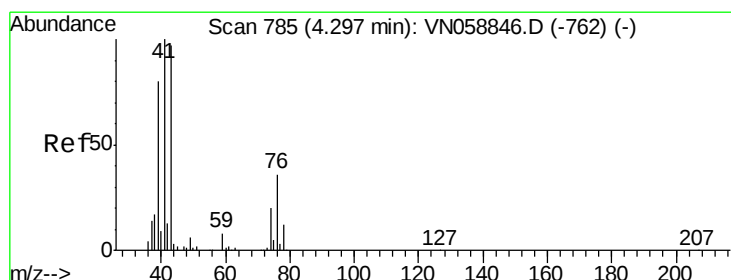
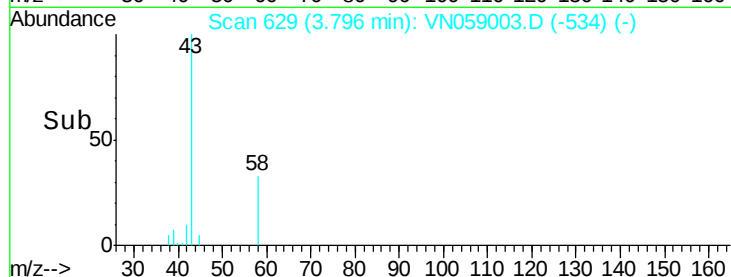
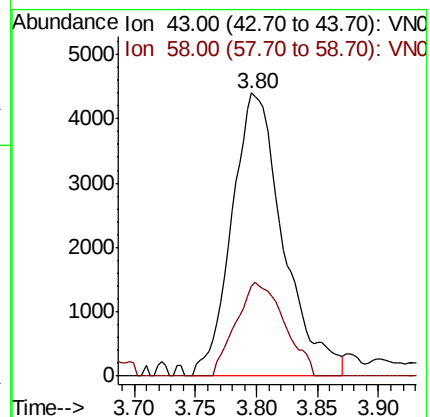
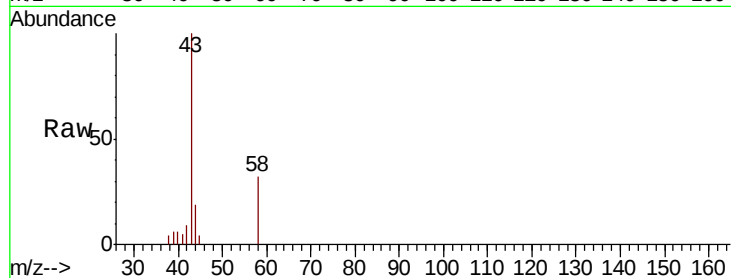
ClientSampleId :

Tot Ion: 43 Resp: 12918

Ion Ratio Lower Upper

43 100

58 31.9 23.1 34.7



#18

Methyl Acetate

Concen: 1.508 ug/l

RT: 4.31 min Scan# 788

Delta R.T. 0.01 min

Lab File: VN059003.D

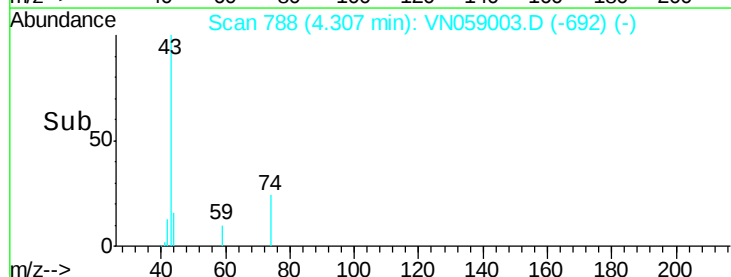
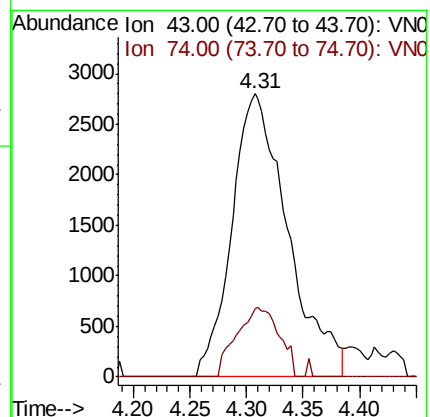
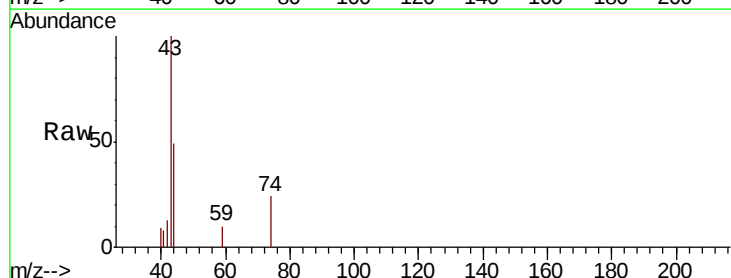
Acq: 29 Oct 2019 12:27

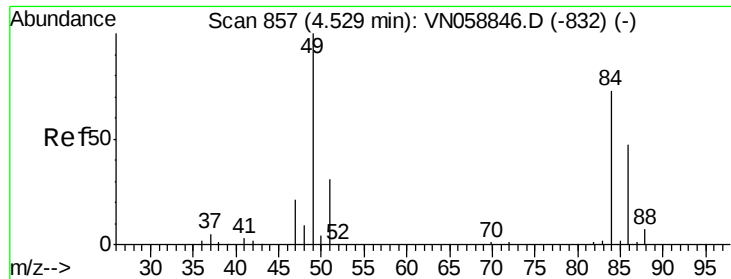
Tgt Ion: 43 Resp: 9643

Ion Ratio Lower Upper

43 100

74 18.7 17.1 25.7

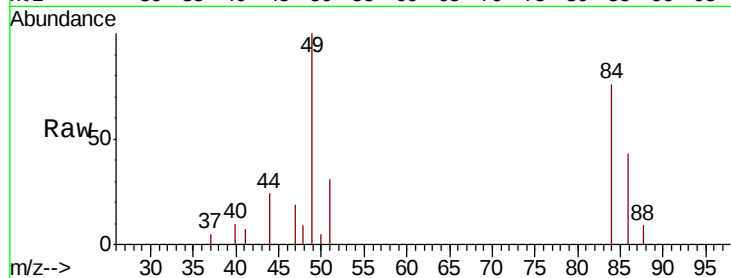




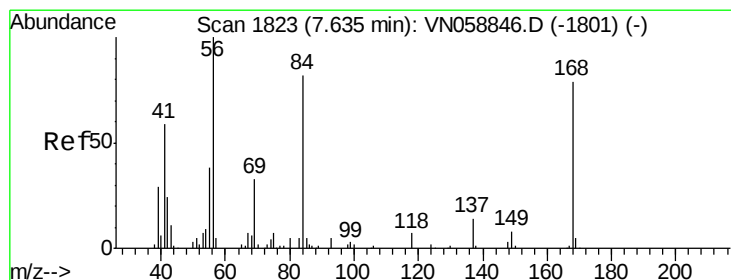
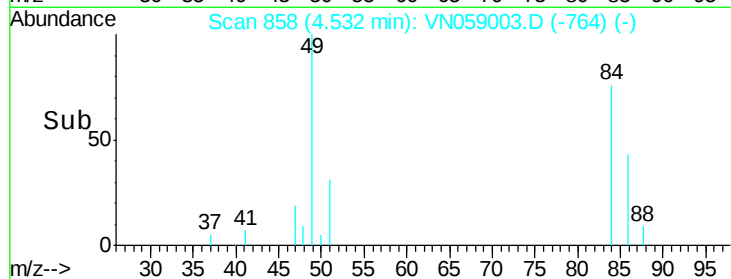
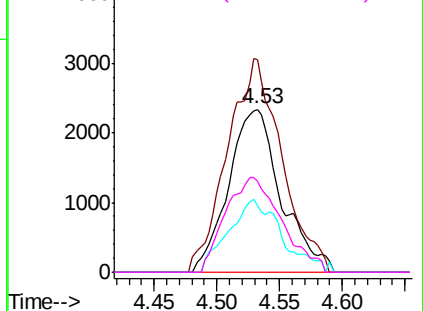
#20
Methylene Chloride
Concen: 1.424 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN059003.D
Acq: 29 Oct 2019 12:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 6837
Ion Ratio Lower Upper
84 100
49 130.8 109.6 164.4
51 41.2 33.8 50.6
86 56.2 51.5 77.3

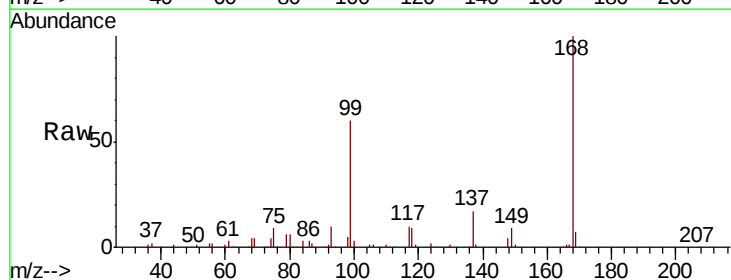


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

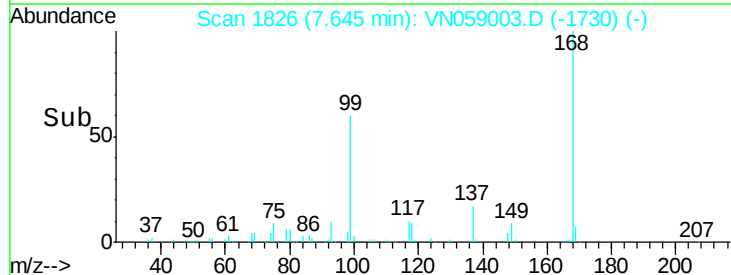
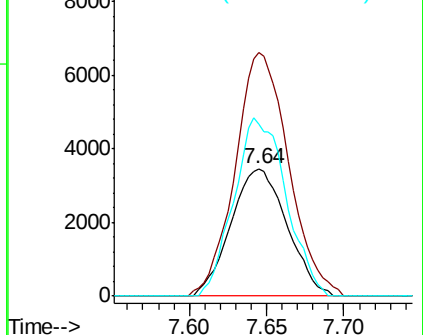


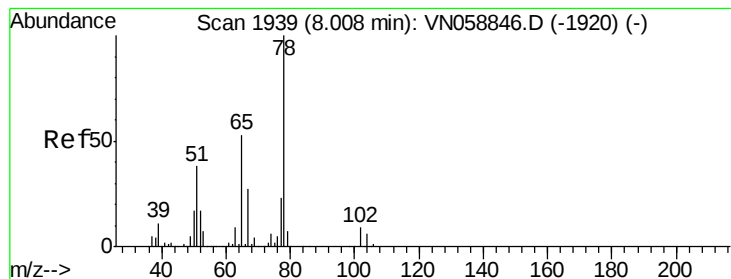
#31
Cyclohexane
Concen: 1.066 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059003.D
Acq: 29 Oct 2019 12:27

Tgt Ion: 56 Resp: 8721
Ion Ratio Lower Upper
56 100
69 191.2 26.2 39.4#
84 134.6 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 47.597 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

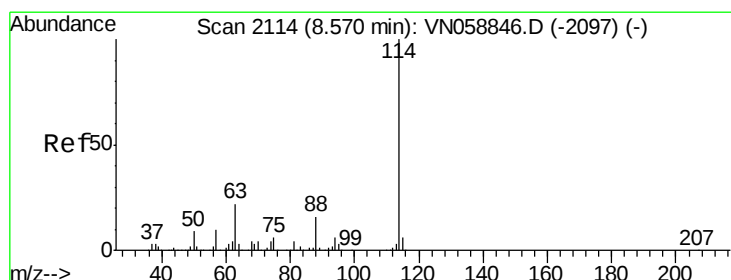
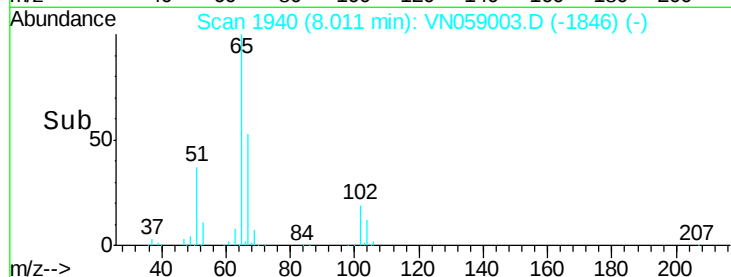
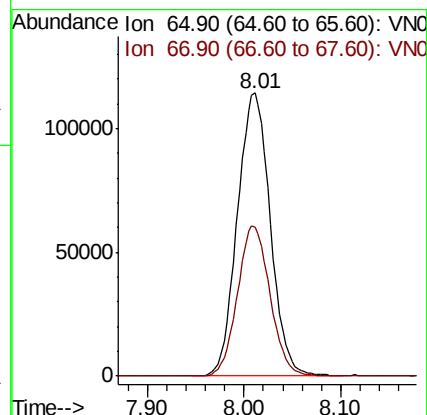
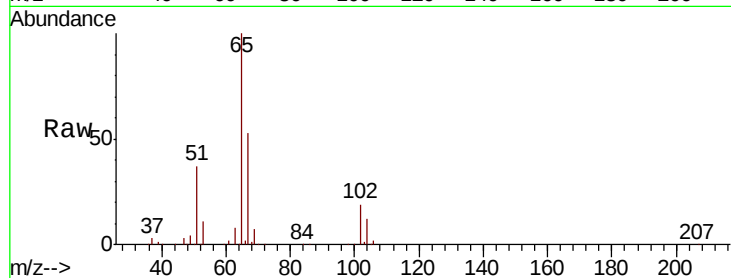
ClientSampled :

Tot Ion: 65 Resp: 270835

Ion Ratio Lower Upper

65 100

67 52.5 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

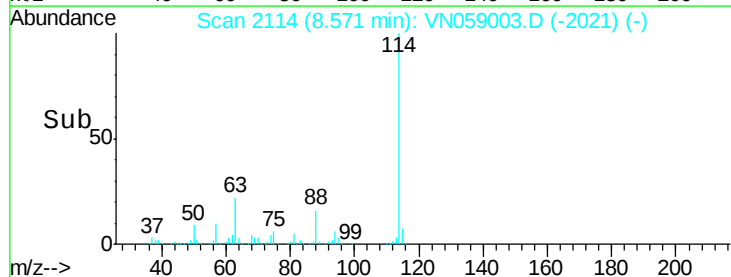
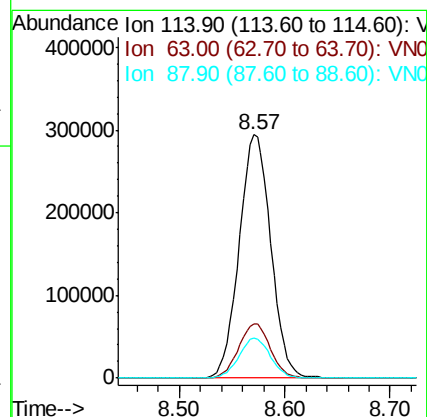
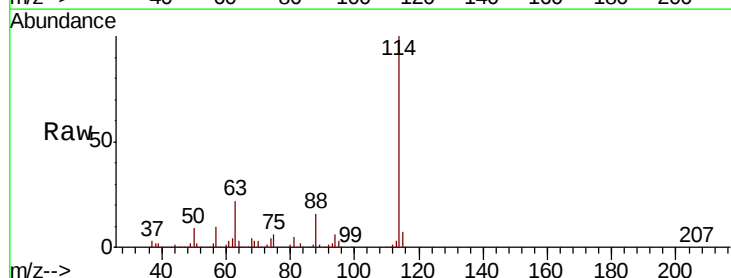
Tgt Ion: 114 Resp: 612689

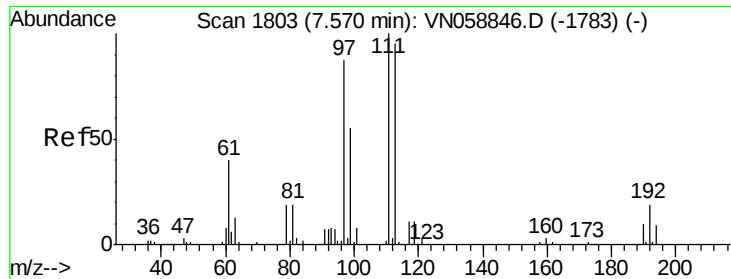
Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.4

88 16.4 0.0 31.4

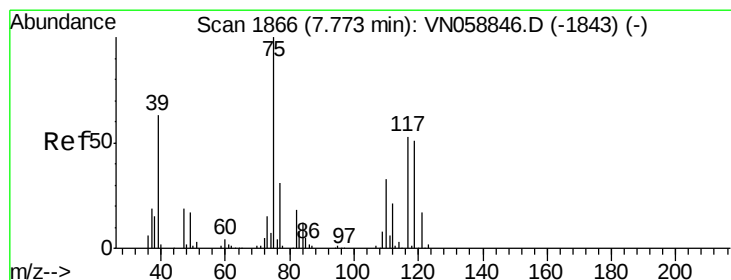
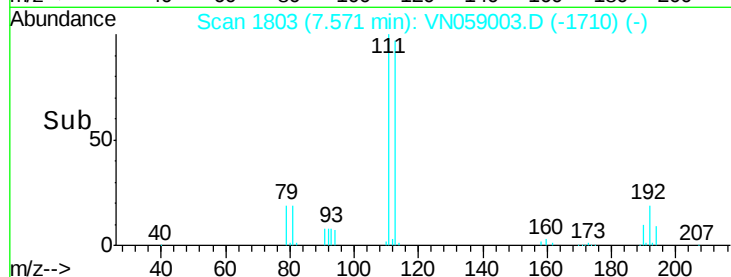
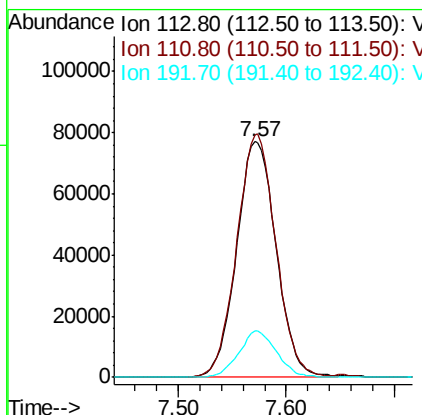
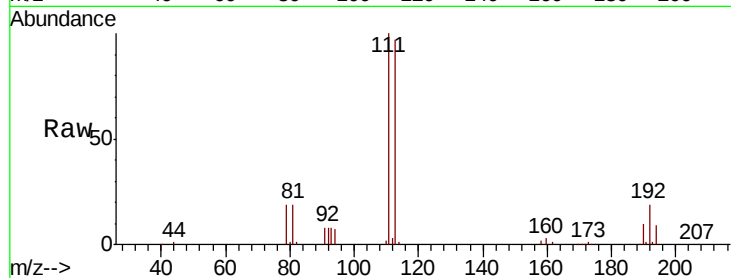




#35
 Dibromofluoromethane
 Concen: 48.858 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

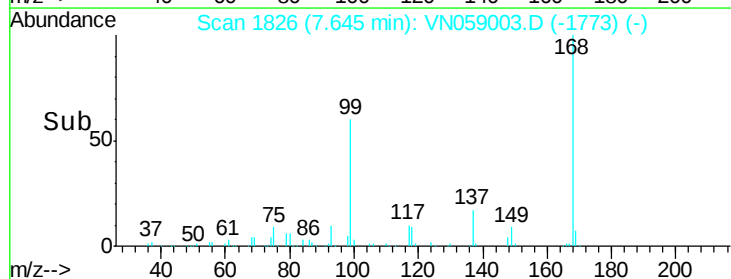
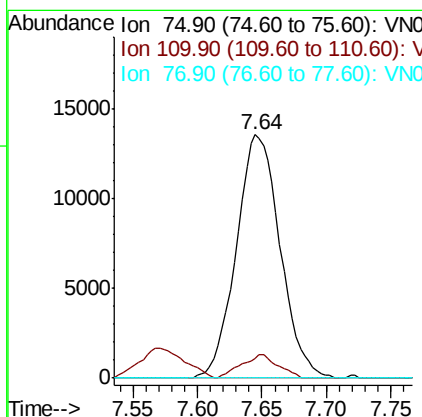
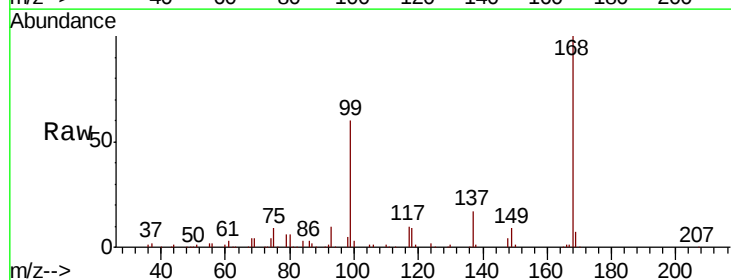
Instrument :
 MSVOA_N
 ClientSampleId :

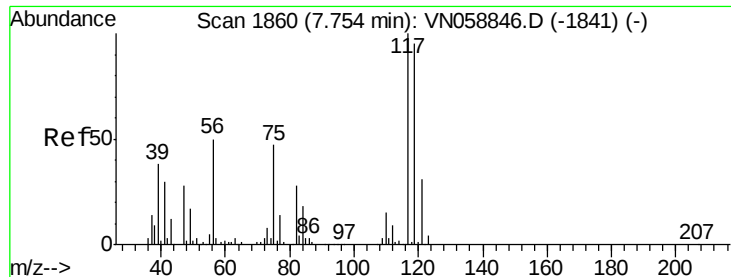
Tot Ion:113 Resp: 196814
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.0 123.0
 192 18.9 15.0 22.6



#36
 1,1-Dichloropropene
 Concen: 5.113 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

Tgt Ion: 75 Resp: 32070
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.3 48.9#
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.950 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.10 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :

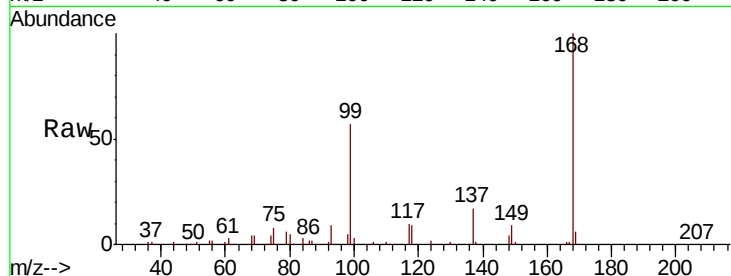
Tot Ion:117 Resp: 38450

Ion Ratio Lower Upper

117 100

119 4.5 75.7 113.5#

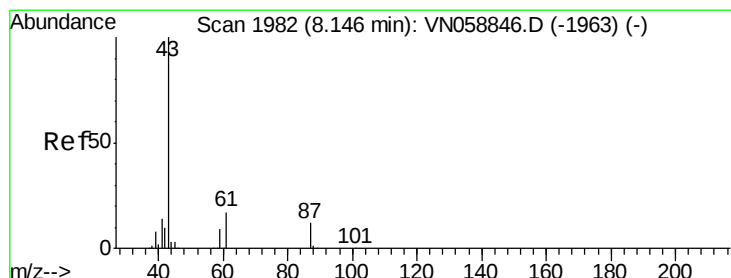
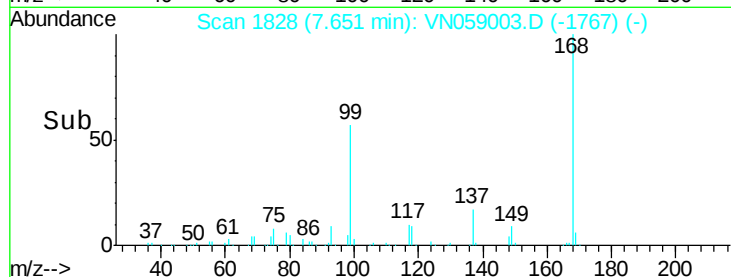
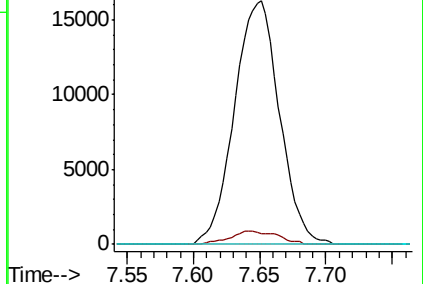
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 9.453 ug/l

RT: 8.15 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

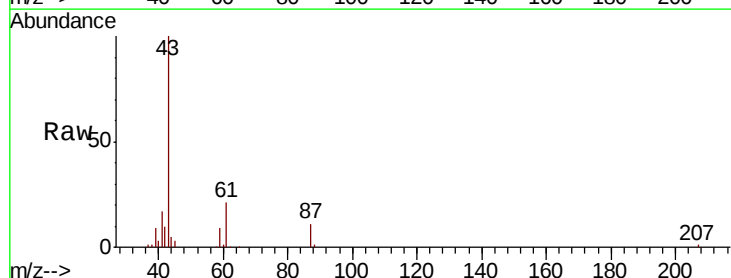
Tgt Ion: 43 Resp: 103621

Ion Ratio Lower Upper

43 100

61 19.8 20.2 30.2#

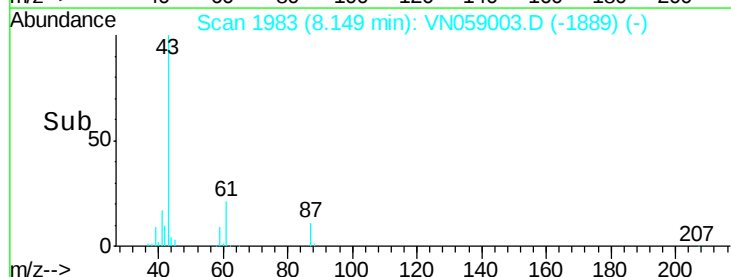
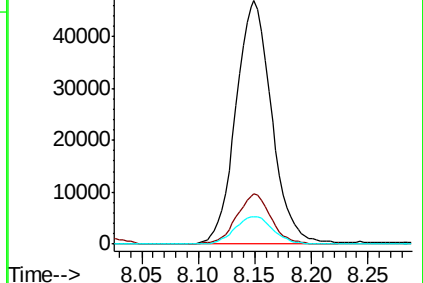
87 12.0 9.5 14.3

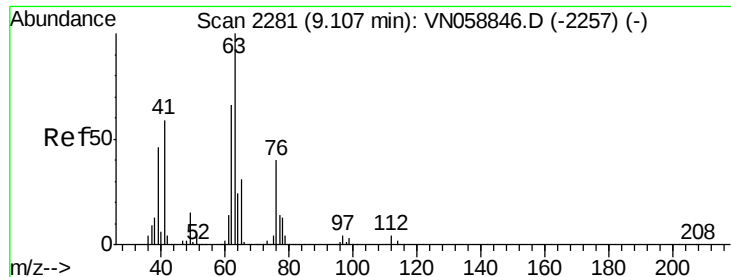


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

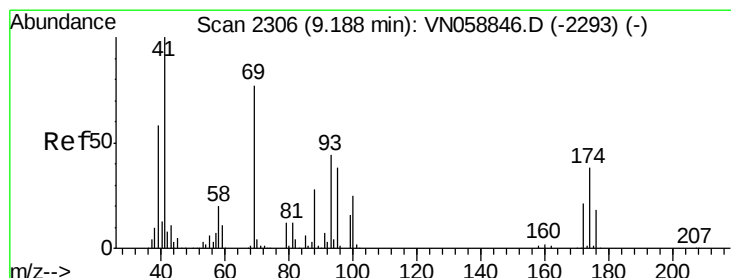
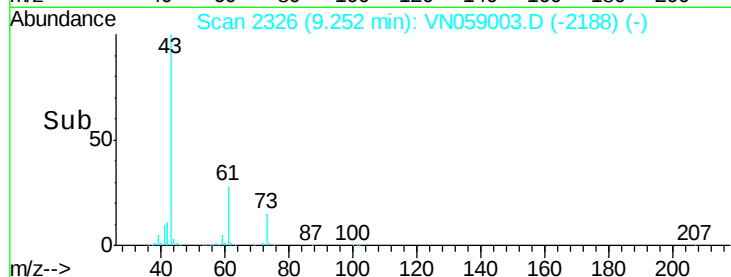
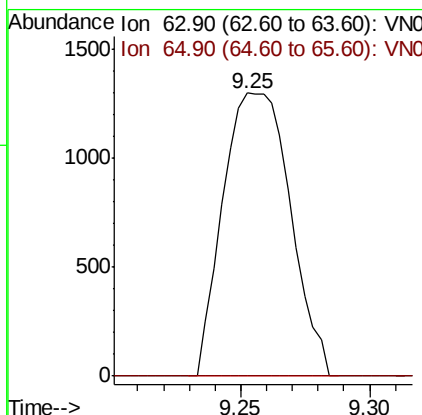
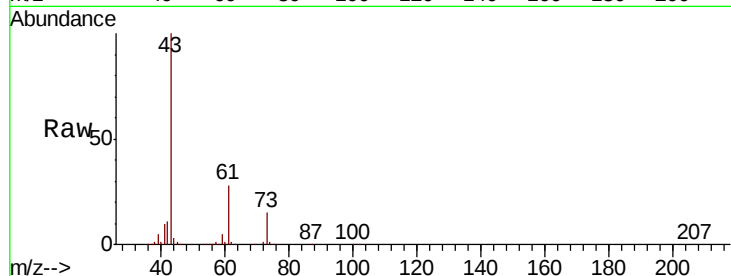




#45
 1,2-Dichloropropane
 Concen: 0.469 ug/l
 RT: 9.25 min Scan# 2326
 Delta R.T. 0.14 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

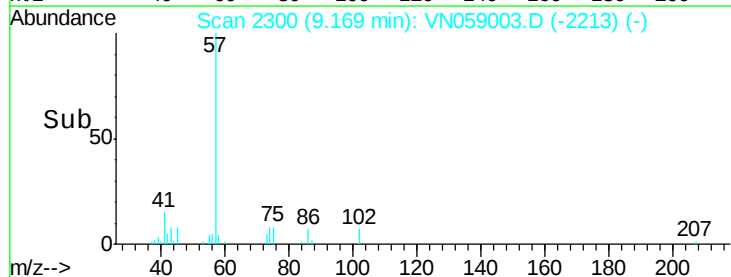
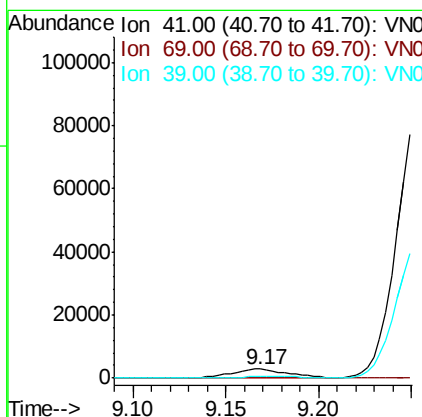
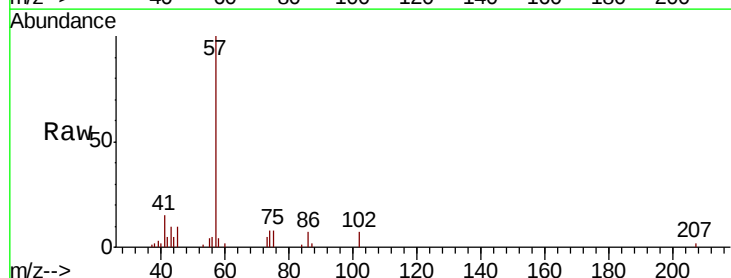
Instrument :
 MSVOA_N
 ClientSampled :

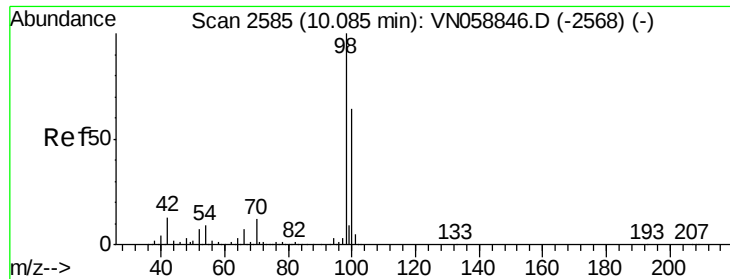
Tot Ion: 63 Resp: 2368
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.5 36.7#



#48
 Methyl methacrylate
 Concen: 1.222 ug/l
 RT: 9.17 min Scan# 2300
 Delta R.T. -0.02 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

Tgt Ion: 41 Resp: 6078
 Ion Ratio Lower Upper
 41 100
 69 0.0 63.8 95.6#
 39 0.0 47.8 71.8#





#50

Toluene-d8

Concen: 50.013 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

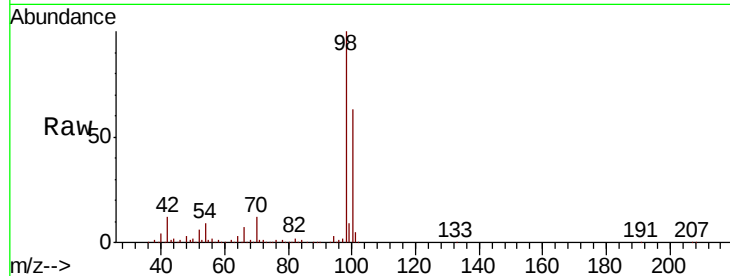
ClientSampleId :

Tot Ion: 98 Resp: 782058

Ion Ratio Lower Upper

98 100

100 64.4 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN058846.D (-2568) (-)

10.08

400000

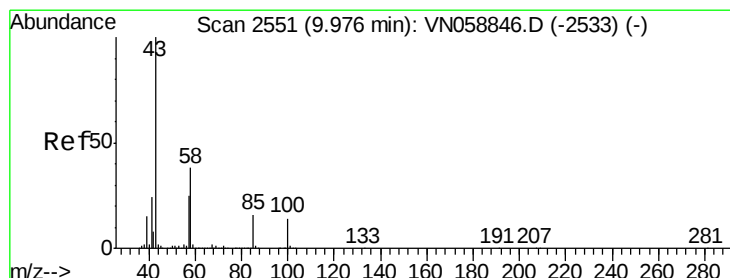
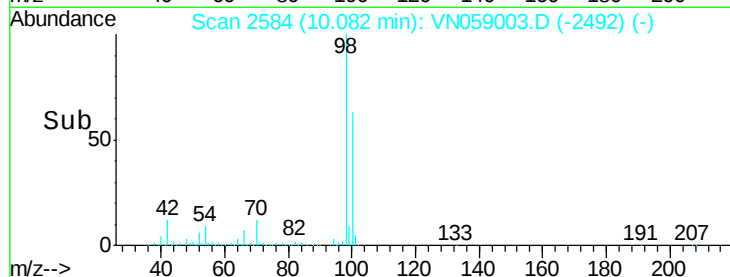
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.914 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN059003.D

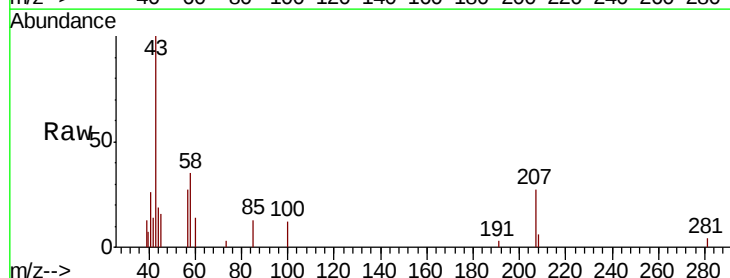
Acq: 29 Oct 2019 12:27

Tgt Ion: 43 Resp: 5852

Ion Ratio Lower Upper

43 100

58 44.3 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN058846.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058846.D (-2533) (-)

9.98

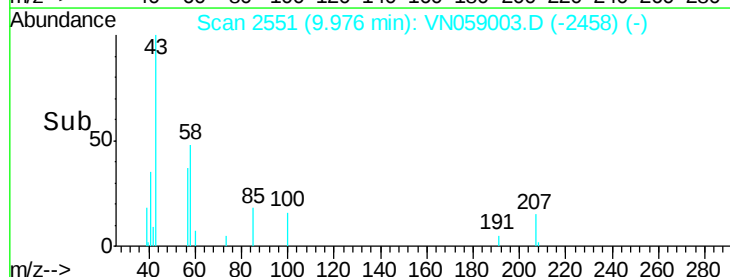
6000

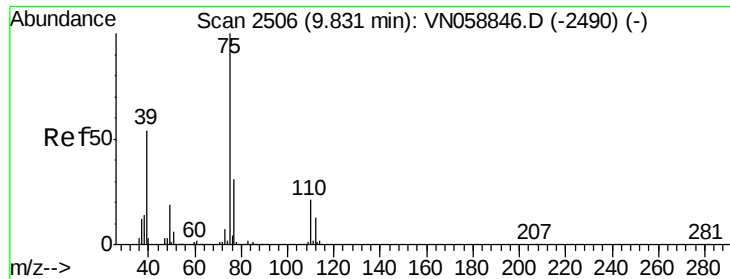
4000

2000

0

Time-->



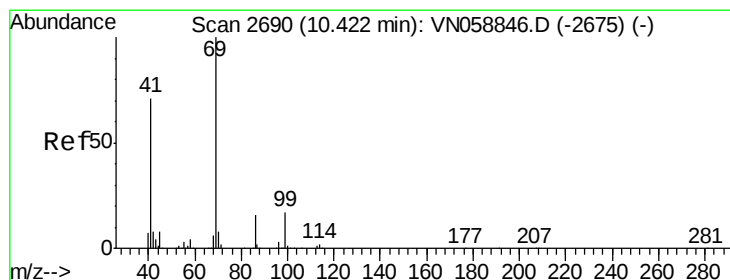
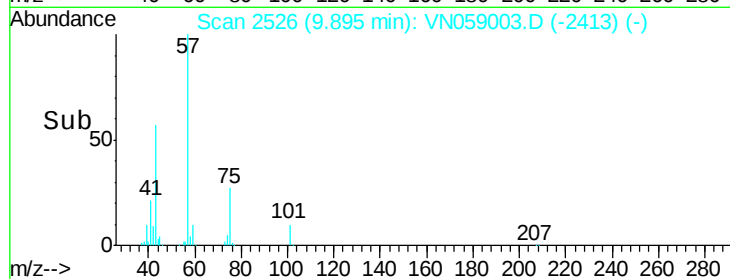
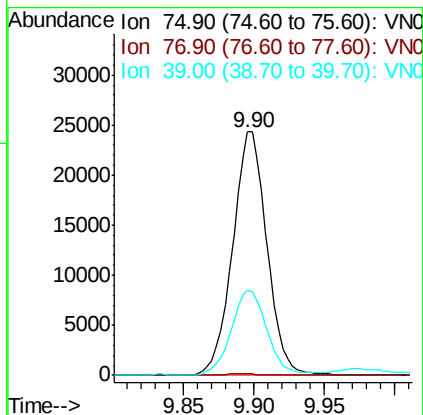
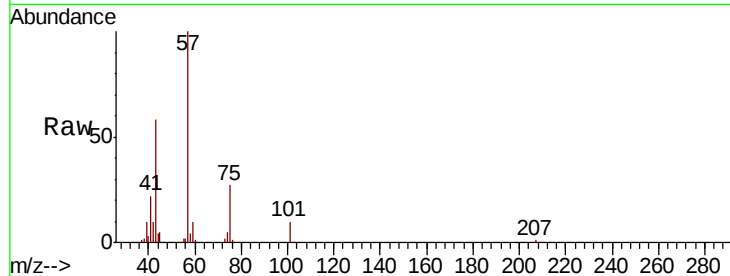


#54

cis-1,3-Dichloropropene
 Concen: 5.326 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.06 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

Instrument :
 MSVOA_N
 ClientSampleId :

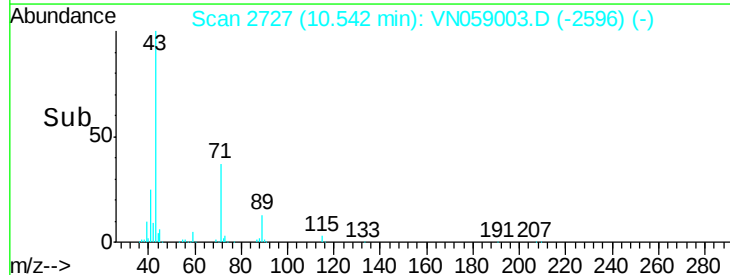
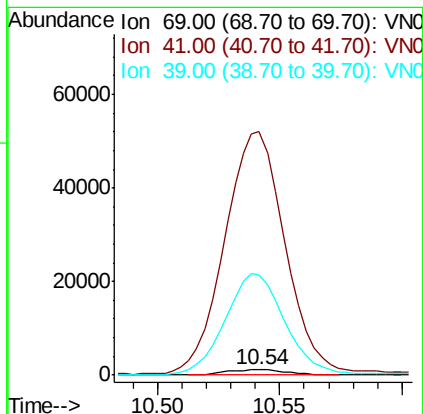
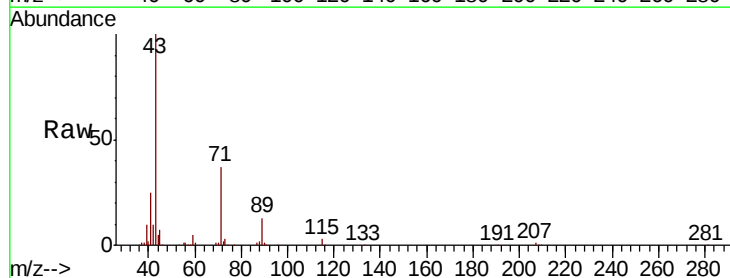
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.8	24.7	37.1#
39	35.1	43.5	65.3#

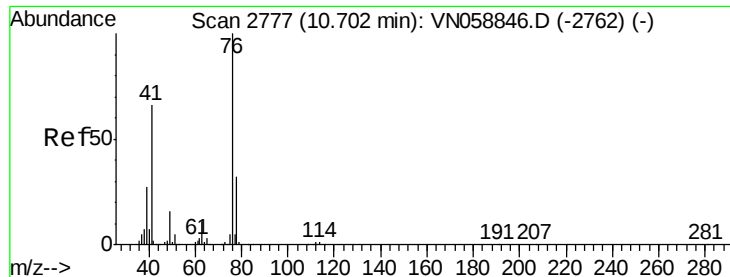


#56

Ethyl methacrylate
 Concen: 2.354 ug/l
 RT: 10.54 min Scan# 2727
 Delta R.T. 0.12 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

Tgt Ion	Ratio	Lower	Upper
69	100		
41	4417.9	57.2	85.8#
39	1834.6	31.0	46.4#





#57

1,3-Dichloropropane

Concen: 0.925 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

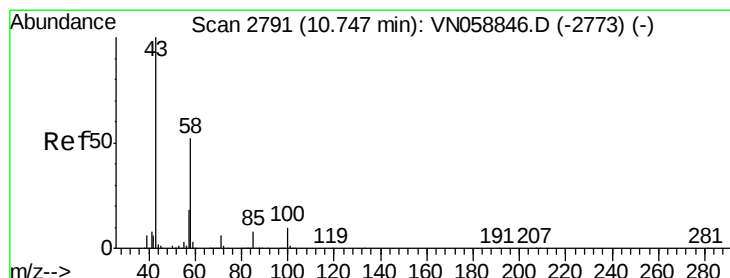
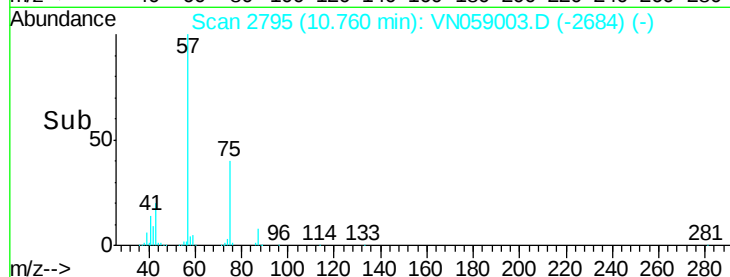
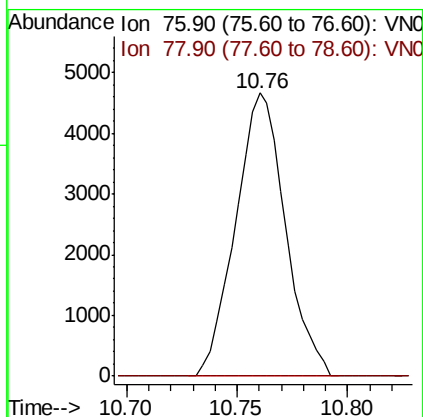
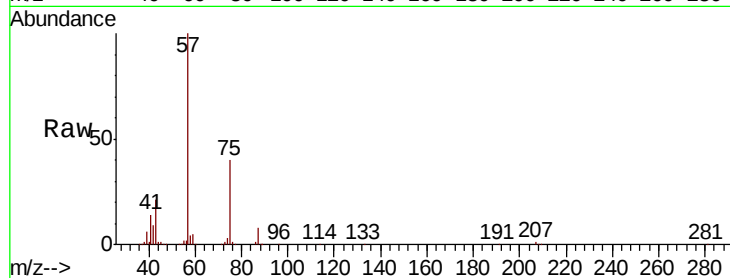
ClientSampleId :

Tot Ion: 76 Resp: 7309

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



#59

2-Hexanone

Concen: 22.618 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN059003.D

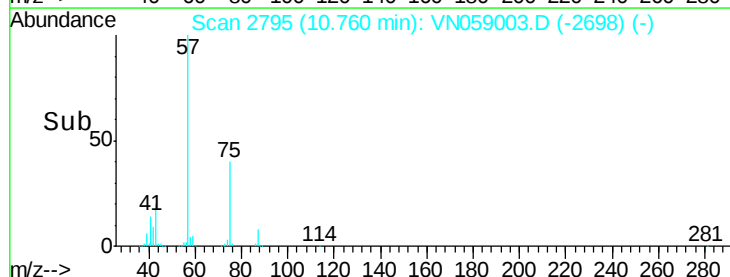
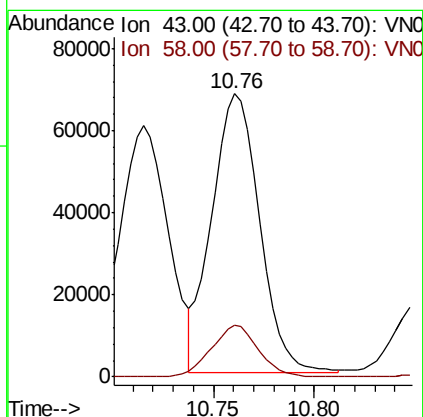
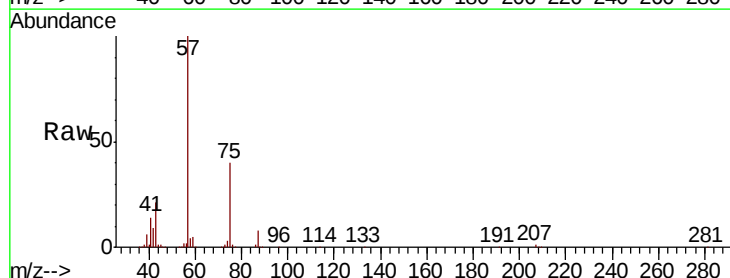
Acq: 29 Oct 2019 12:27

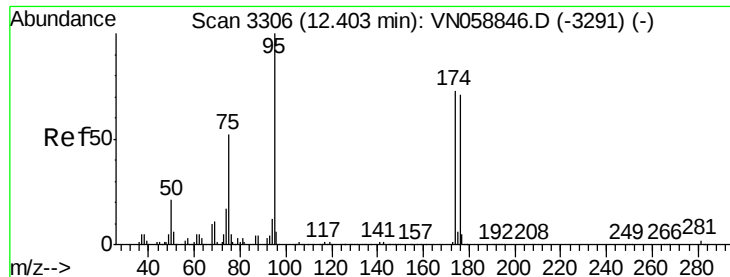
Tgt Ion: 43 Resp: 111900

Ion Ratio Lower Upper

43 100

58 18.5 25.9 77.7#





#62

4-Bromofluorobenzene

Concen: 42.925 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :

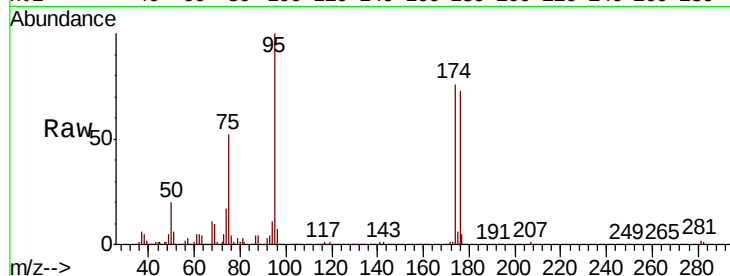
Tot Ion: 95 Resp: 246491

Ion Ratio Lower Upper

95 100

174 76.7 0.0 147.6

176 73.6 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

12.40

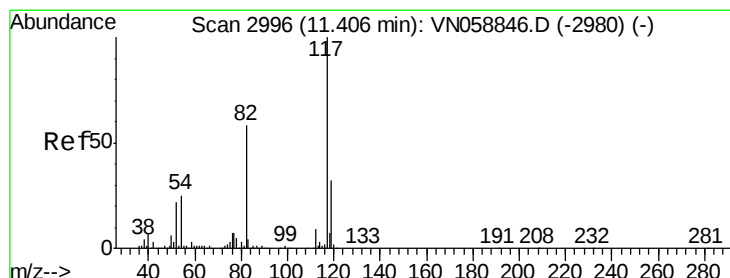
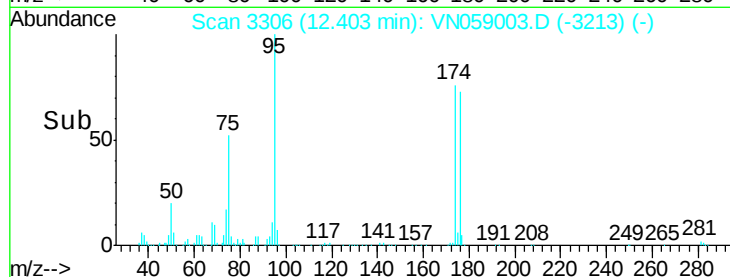
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

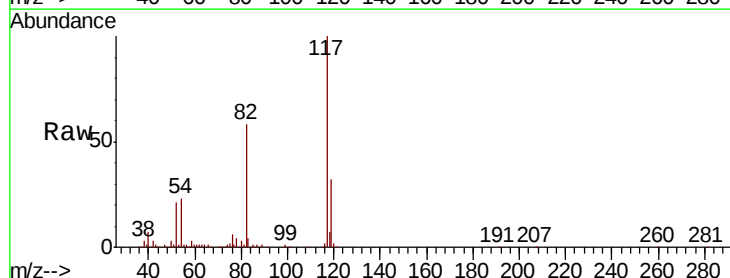
Tgt Ion: 117 Resp: 557973

Ion Ratio Lower Upper

117 100

82 58.0 46.6 69.8

119 31.8 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

11.41

400000

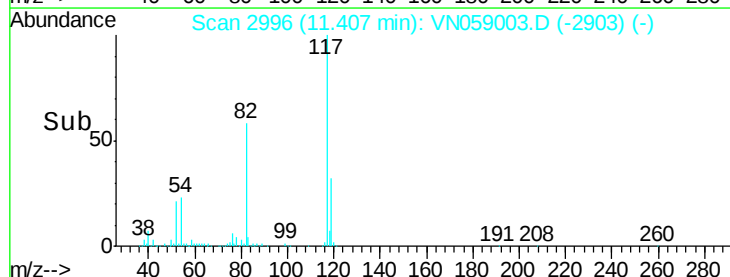
300000

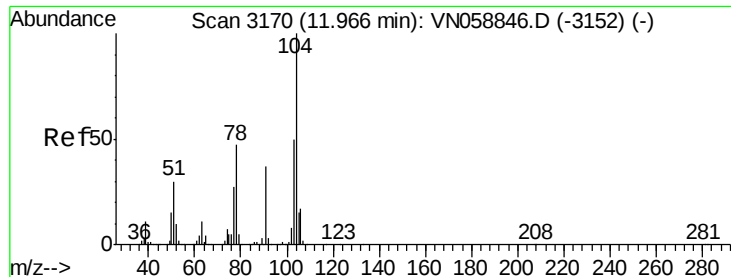
200000

100000

0

Time--> 11.30 11.40 11.50

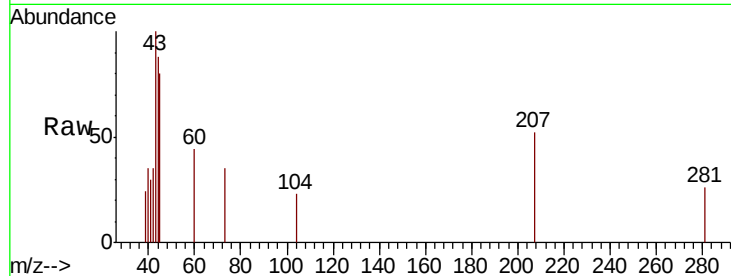




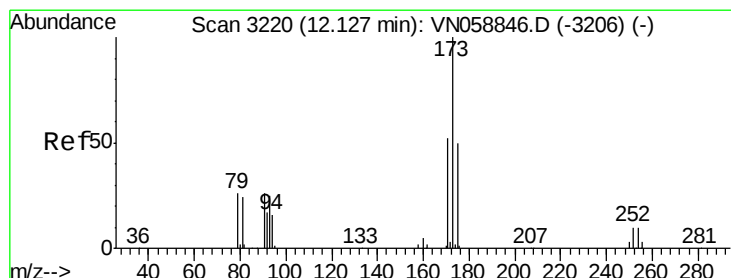
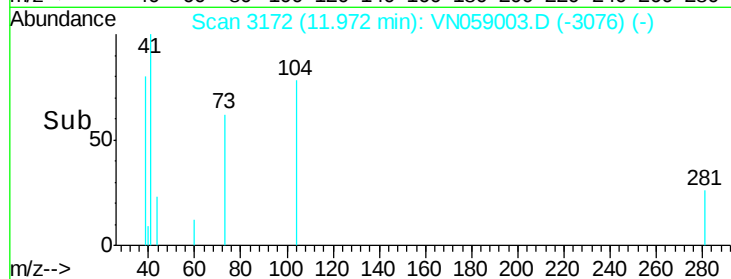
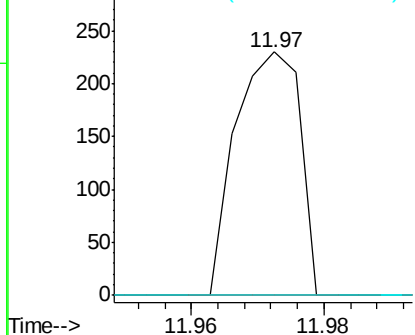
#70
Stvrene
Concen: 1.725 ug/l
RT: 11.97 min Scan# 3172
Delta R.T. 0.01 min
Lab File: VN059003.D
Acq: 29 Oct 2019 12:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:104 Resp: 155
Ion Ratio Lower Upper
104 100
78 0.0 42.8 64.2#
103 0.0 44.3 66.5#

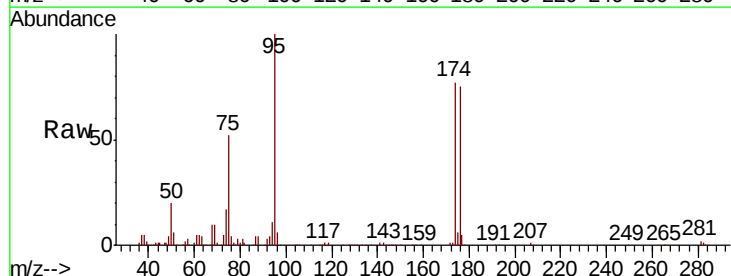


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VN0
Ion 103.00 (102.70 to 103.70): V

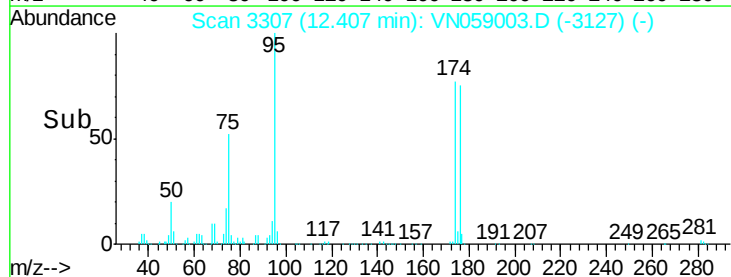
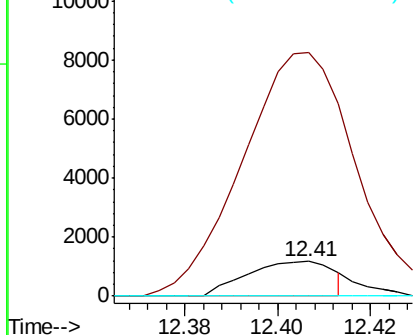


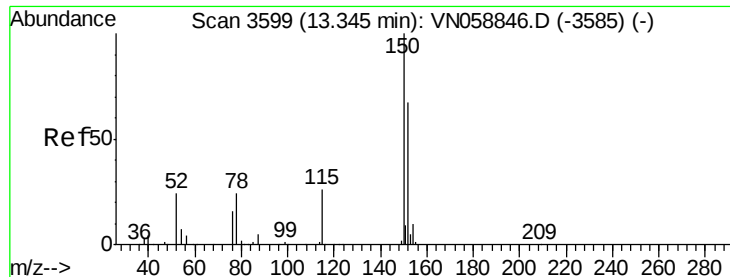
#71
Bromoform
Concen: 0.457 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN059003.D
Acq: 29 Oct 2019 12:27

Tgt Ion:173 Resp: 1519
Ion Ratio Lower Upper
173 100
175 757.4 24.7 74.1#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

ClientSampled :

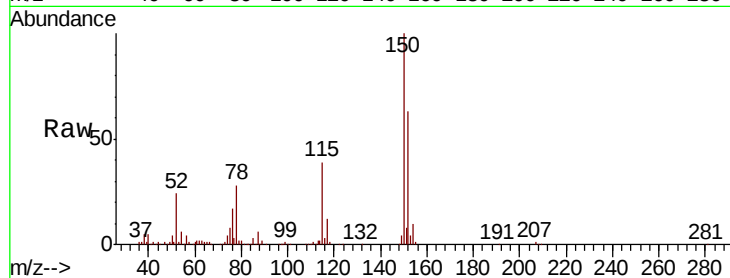
Tot Ion:152 Resp: 197430

Ion Ratio Lower Upper

152 100

115 61.1 30.5 91.5

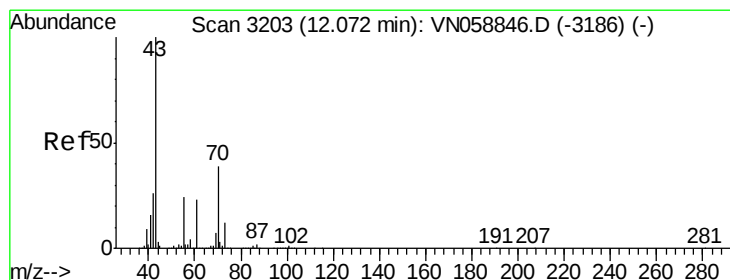
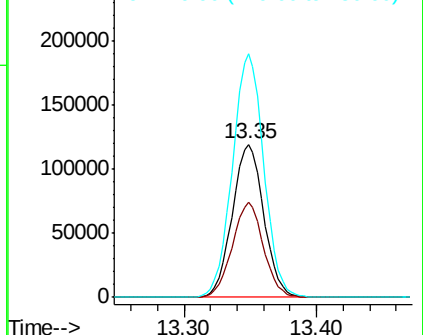
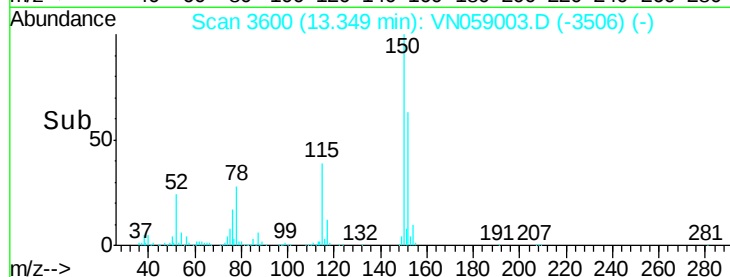
150 158.1 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.323 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Tgt Ion: 43 Resp: 2113

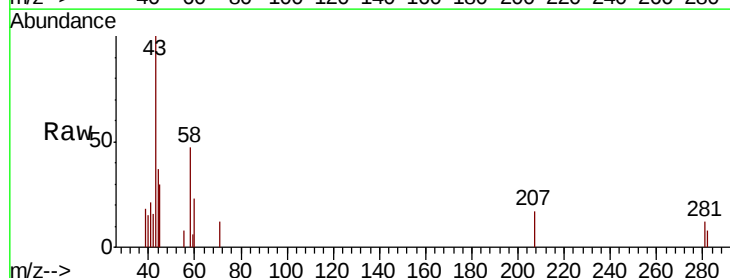
Ion Ratio Lower Upper

43 100

70 0.0 30.9 46.3#

55 4.9 19.7 29.5#

61 0.0 18.2 27.4#

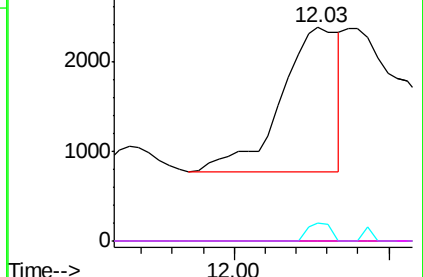
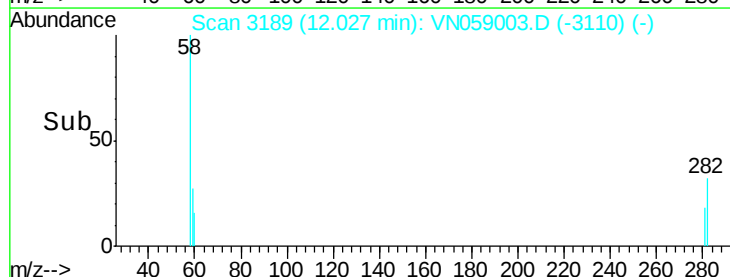


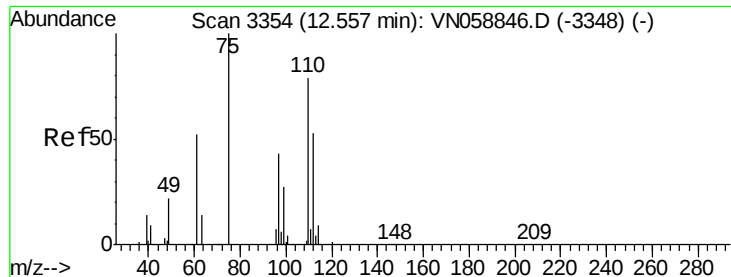
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 27.985 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

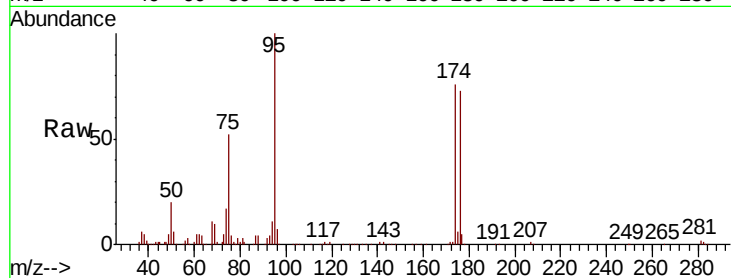
ClientSampleId :

Tot Ion: 75 Resp: 128050

Ion Ratio Lower Upper

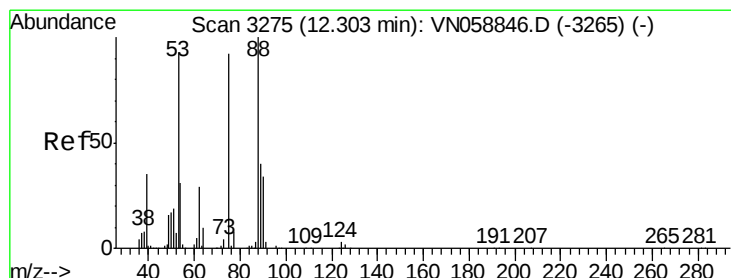
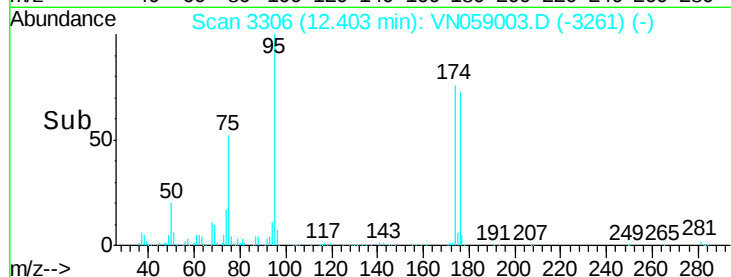
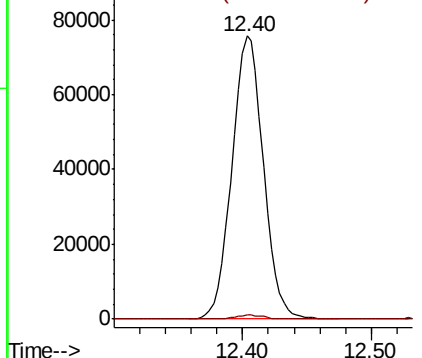
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 72.903 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

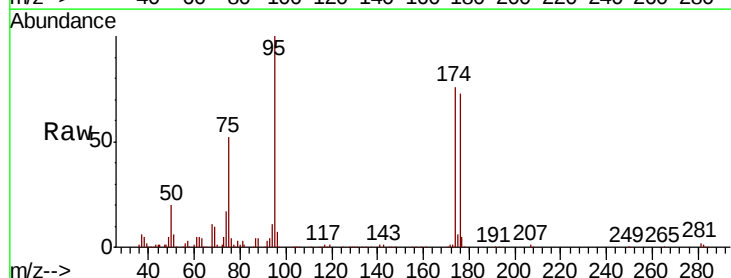
Tgt Ion: 75 Resp: 128050

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

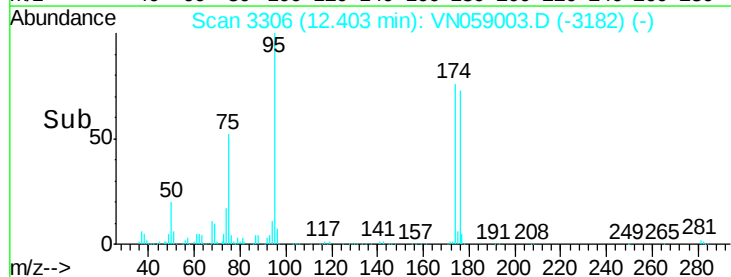
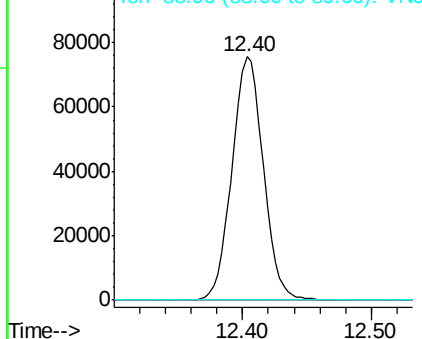
89 0.0 35.4 53.0#

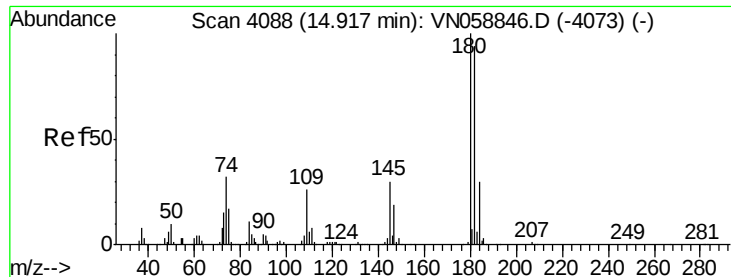


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.594 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

Instrument :

MSVOA_N

ClientSampleId :

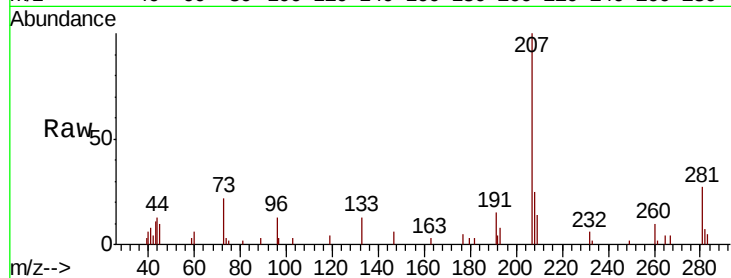
Tot Ion:180 Resp: 303

Ion Ratio Lower Upper

180 100

182 79.5 47.3 142.0

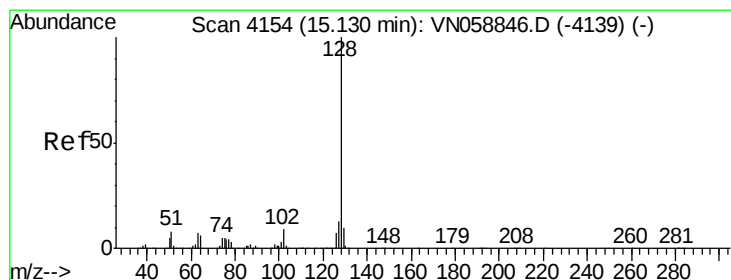
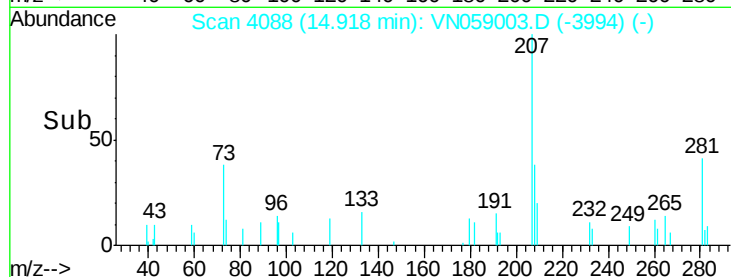
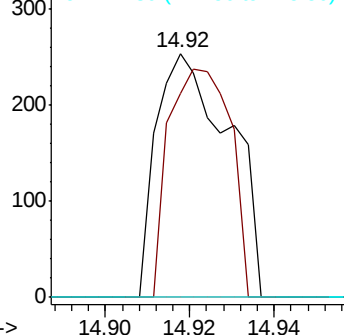
145 0.0 15.3 45.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 2.337 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN059003.D

Acq: 29 Oct 2019 12:27

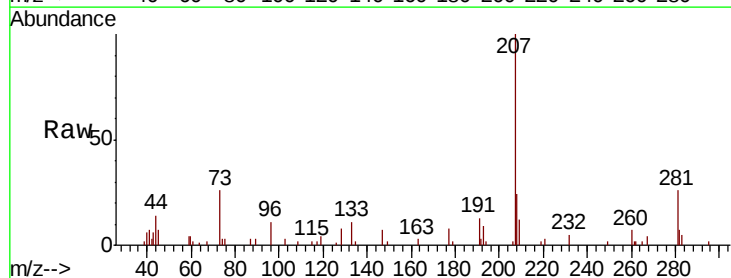
Tgt Ion:128 Resp: 1325

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

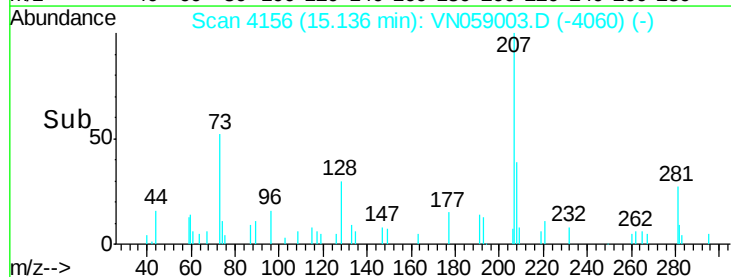
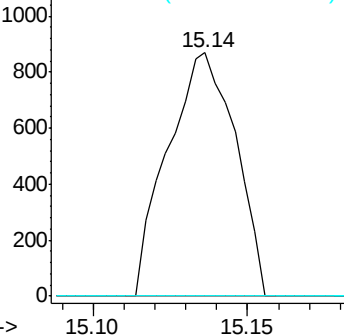
129 0.0 8.4 12.6#

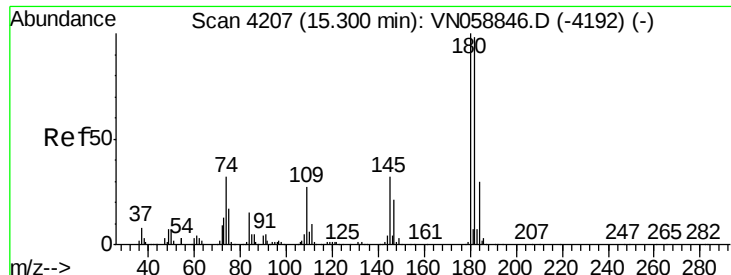


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 2.466 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. 0.00 min
 Lab File: VN059003.D
 Acq: 29 Oct 2019 12:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	121.5	47.9	143.7
145	119.0	15.9	47.7#

