

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054228.D
 Acq On : 13 Mar 2019 23:08
 Operator : JC/SP
 Sample : VN0313WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 05:22:49 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1369396	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2230546	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2347930	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1034362	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	727567	50.03	ug/l	0.00
Spiked Amount			Recovery	=	100.06%	
35) Dibromofluoromethane	7.59	113	685279	47.63	ug/l	0.00
Spiked Amount			Recovery	=	95.26%	
50) Toluene-d8	10.09	98	2788170	52.48	ug/l	0.00
Spiked Amount			Recovery	=	104.96%	
62) 4-Bromofluorobenzene	12.40	95	1080188	58.11	ug/l	0.00
Spiked Amount			Recovery	=	116.22%	

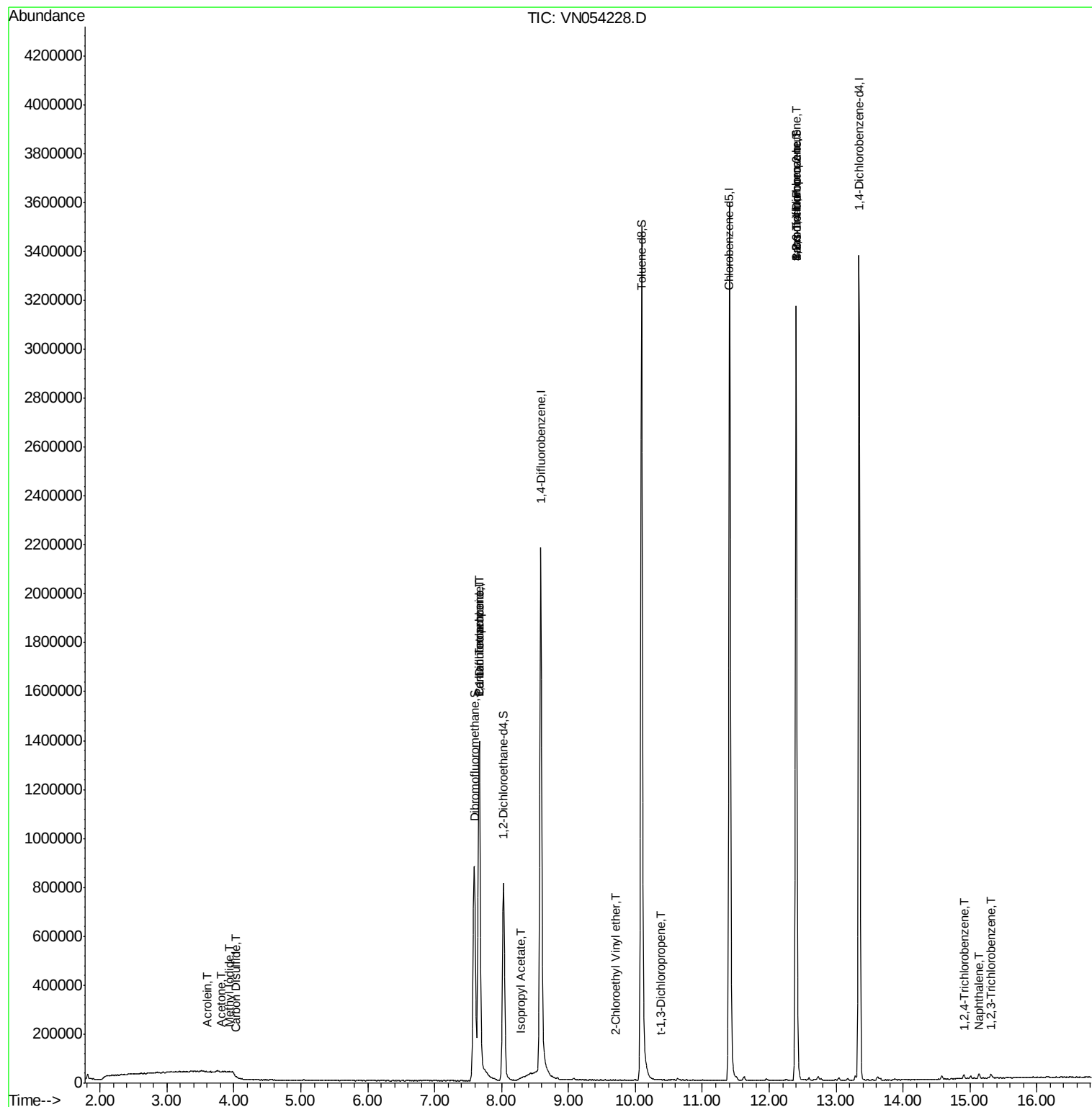
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.93	142	462	1.519	ug/l #	67
13) Acrolein	3.60	56	463	0.490	ug/l	100
16) Acetone	3.81	43	968	0.232	ug/l #	56
17) Carbon Disulfide	4.04	76	7365	0.207	ug/l #	91
31) Cyclohexane	7.66	56	20332	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	78556	3.824	ug/l #	48
38) Carbon Tetrachloride	7.67	117	108216	5.024	ug/l #	16
43) Isopropyl Acetate	8.27	43	7835	0.378	ug/l #	60
53) t-1,3-Dichloropropene	10.38	75	536	2.009	ug/l #	42
58) 2-Chloroethyl Vinyl ether	9.69	63	230	16.858	ug/l #	44
71) Bromoform	12.40	173	6413	2.779	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	519226	34.135	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	519226	116.690	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	5705	2.765	ug/l	97
95) Naphthalene	15.14	128	16292	3.804	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	6820	0.356	ug/l	92

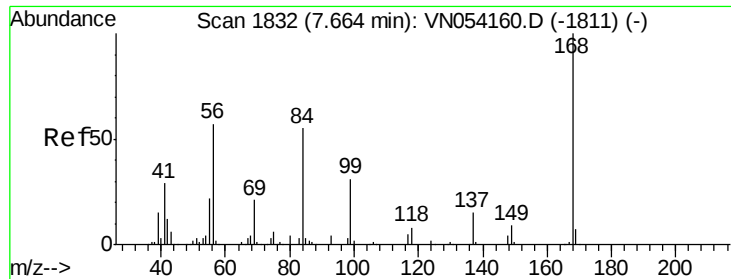
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :

MSVOA_N

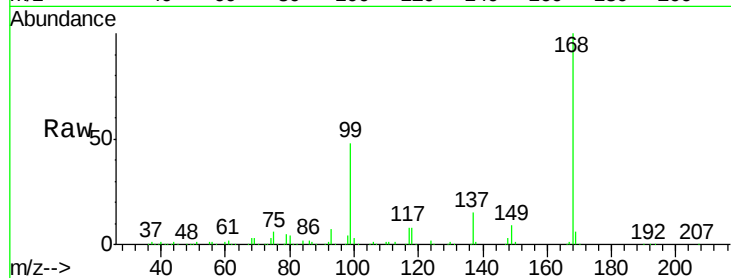
ClientSampled :

Tot Ion:168 Resp: 1369396

Ion Ratio Lower Upper

168 100

99 48.1 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

600000

500000

400000

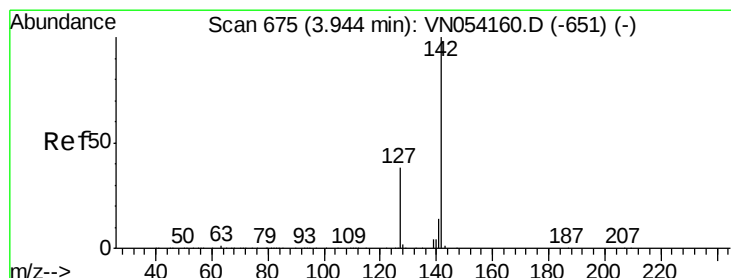
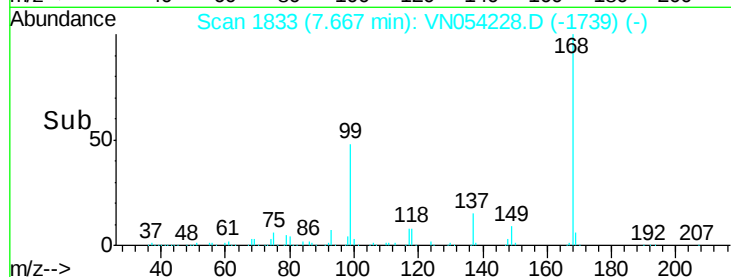
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.519 ug/l

RT: 3.93 min Scan# 671

Delta R.T. -0.01 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

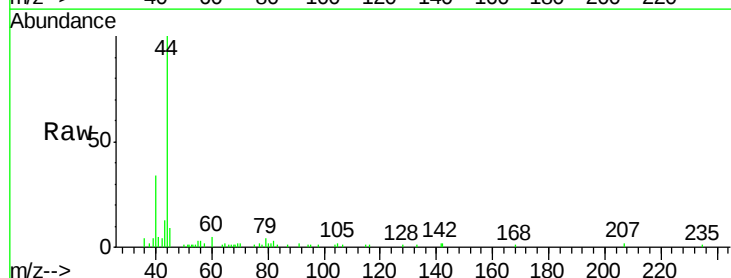
Tgt Ion:142 Resp: 462

Ion Ratio Lower Upper

142 100

127 19.5 30.3 45.5#

141 29.9 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.93

1000

800

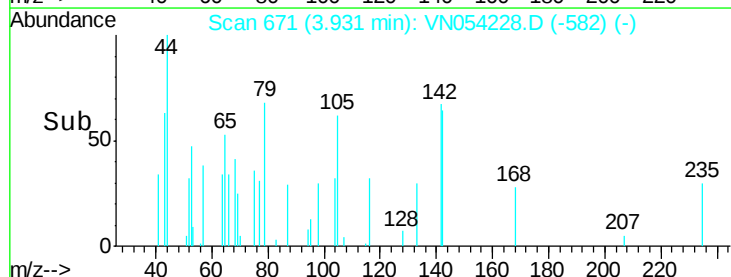
600

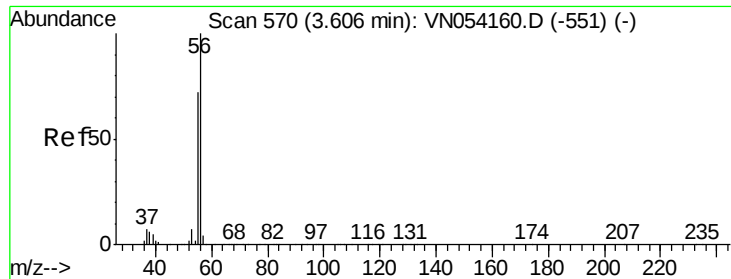
400

200

0

Time--> 3.91 3.92 3.93 3.94

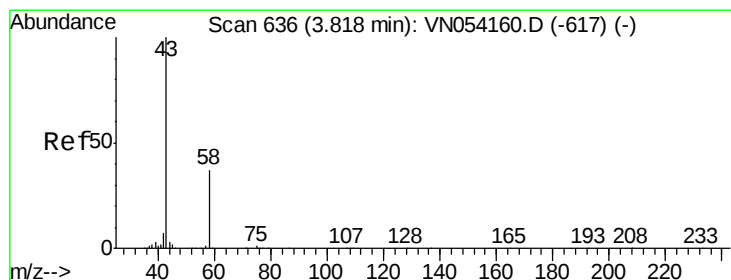
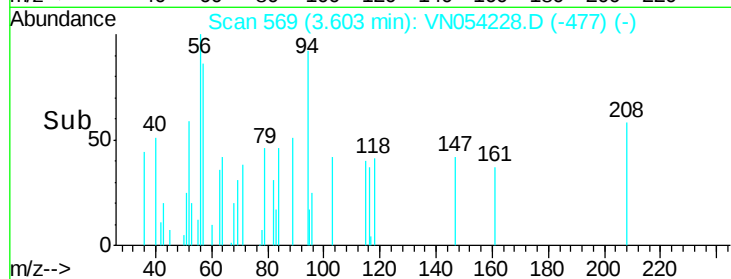
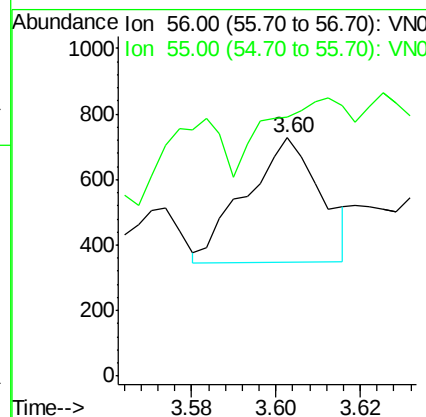
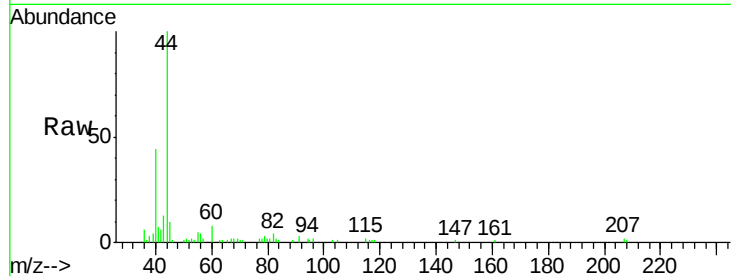




#13
Acrolein
Concen: 0.490 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN054228.D
Acq: 13 Mar 2019 23:08

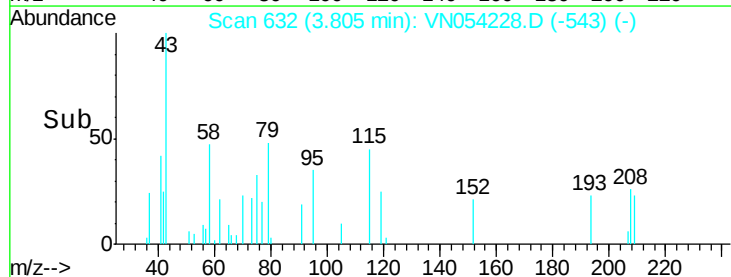
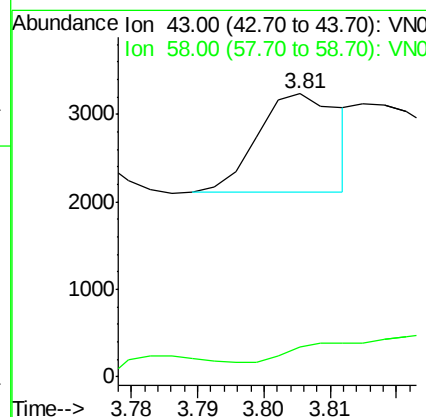
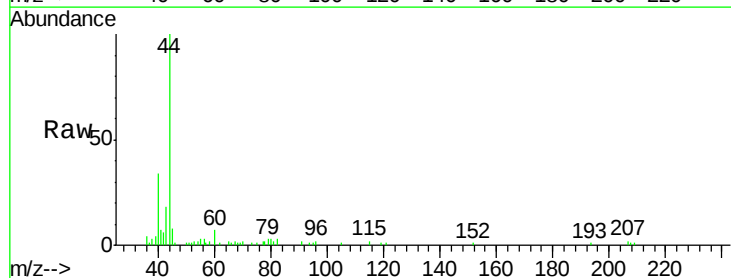
Instrument :
MSVOA_N
ClientSampled :

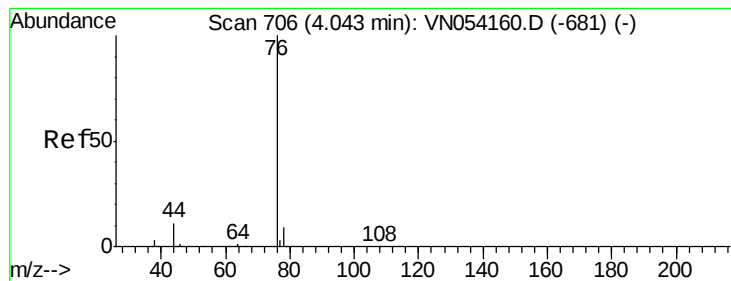
Tot Ion: 56 Resp: 463
Ion Ratio Lower Upper
56 100
55 71.1 56.7 85.1



#16
Acetone
Concen: 0.232 ug/l
RT: 3.81 min Scan# 632
Delta R.T. -0.01 min
Lab File: VN054228.D
Acq: 13 Mar 2019 23:08

Tgt Ion: 43 Resp: 968
Ion Ratio Lower Upper
43 100
58 10.9 29.9 44.9#





#17

Carbon Disulfide

Concen: 0.207 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :

MSVOA_N

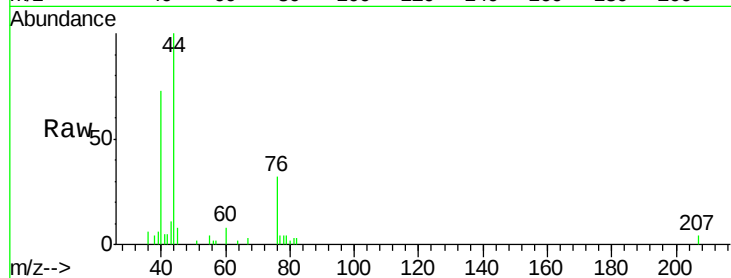
ClientSampleId :

Tot Ion: 76 Resp: 7365

Ion Ratio Lower Upper

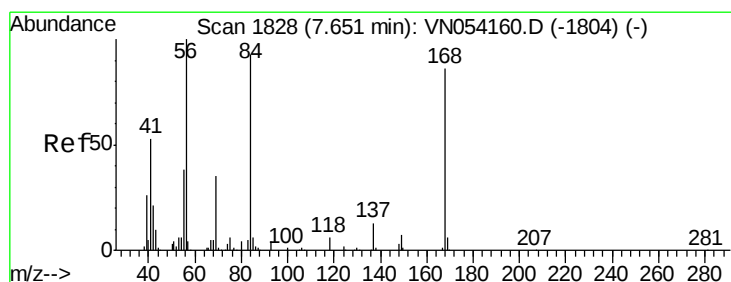
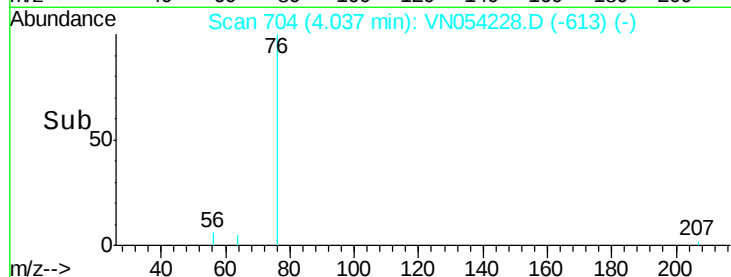
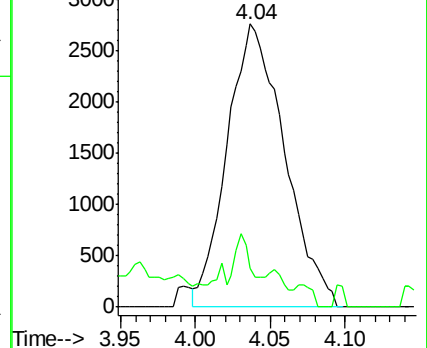
76 100

78 6.1 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

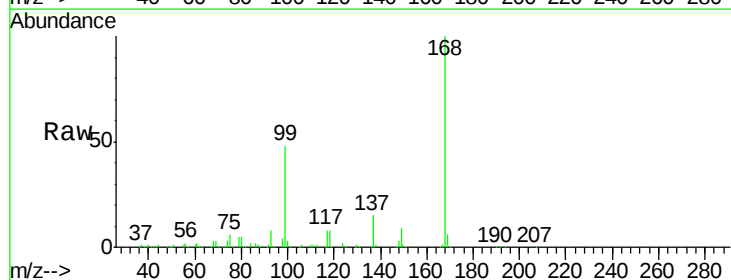
Tgt Ion: 56 Resp: 20332

Ion Ratio Lower Upper

56 100

69 176.3 27.8 41.6#

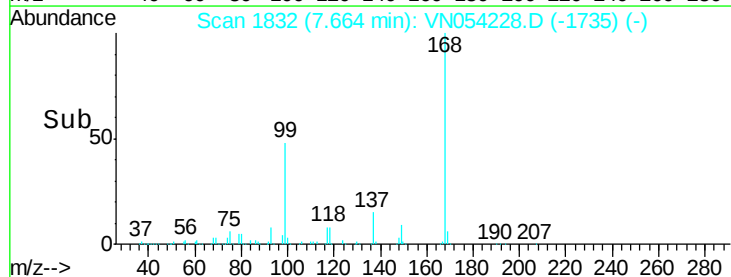
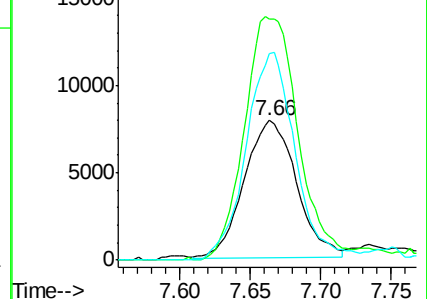
84 151.2 74.6 111.8#

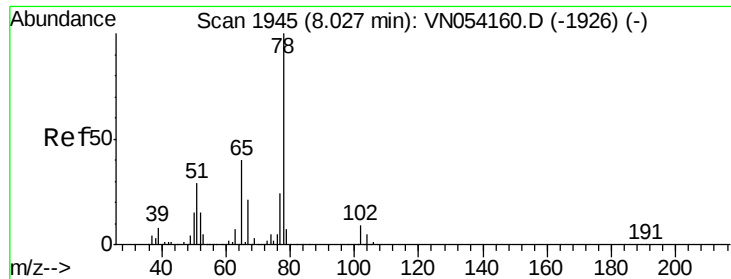


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 50.029 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

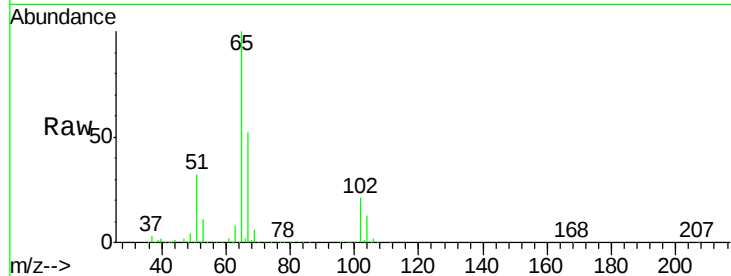
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 65 Resp: 727567

Ion Ratio Lower Upper

65 100

67 51.6 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

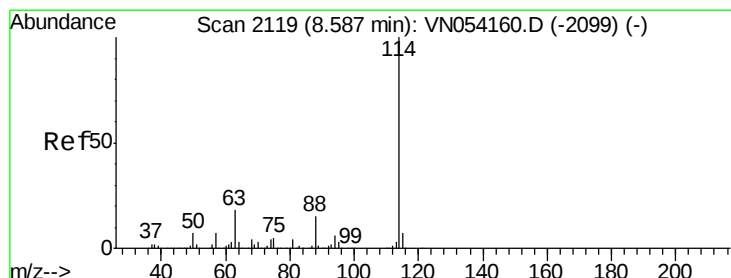
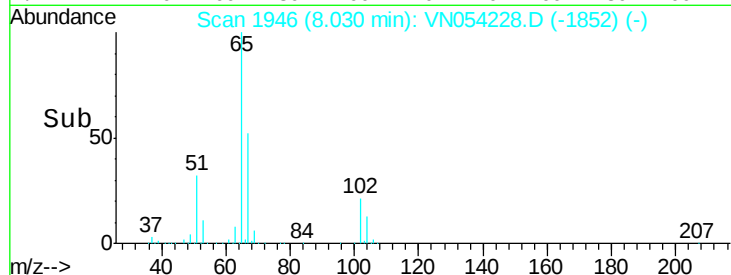
300000

200000

100000

0

Time--> 7.90 8.00 8.10 8.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. -0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

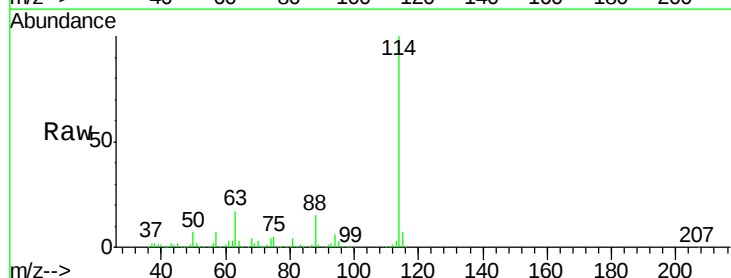
Tgt Ion: 114 Resp: 2230546

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.2

88 15.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

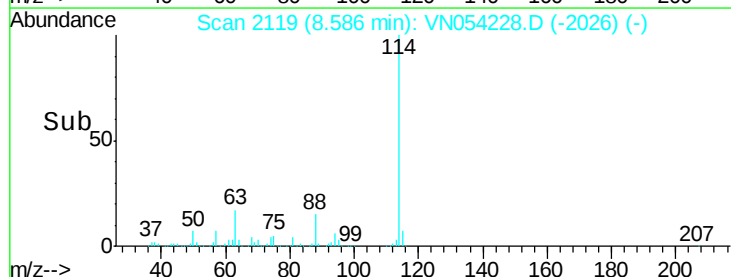
8.59

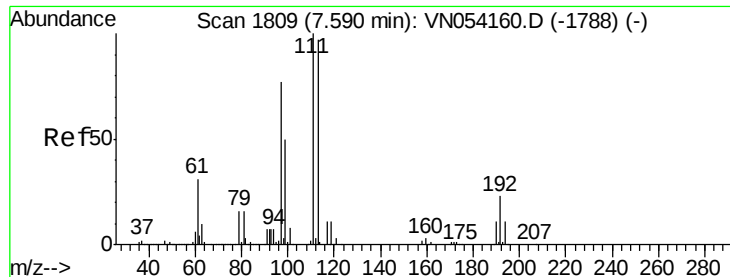
1000000

500000

0

Time--> 8.40 8.60 8.80





#35

Dibromofluoromethane

Concen: 47.635 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :
MSVOA_N
ClientSampleId :

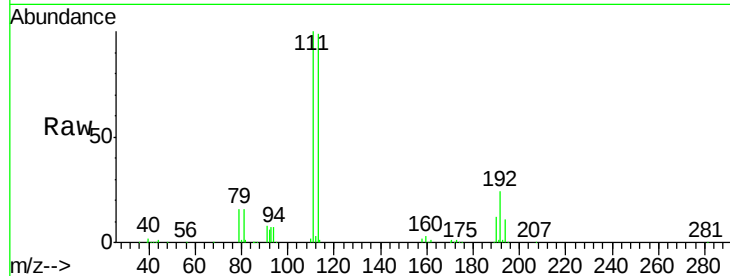
Tot Ion:113 Resp: 685279

Ion Ratio Lower Upper

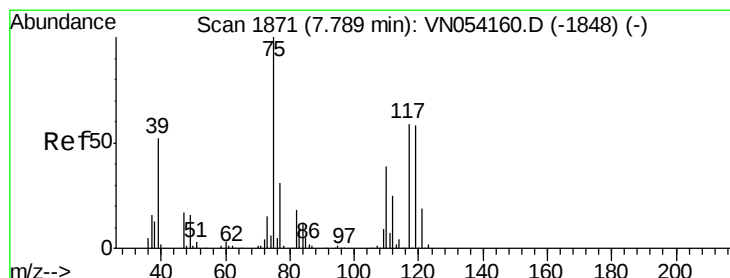
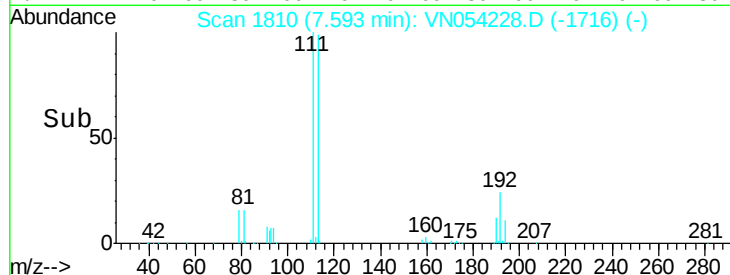
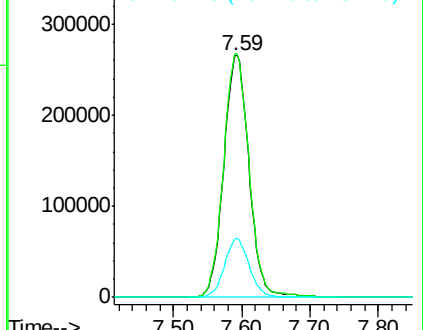
113 100

111 101.3 82.2 123.4

192 23.7 19.2 28.8



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.824 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

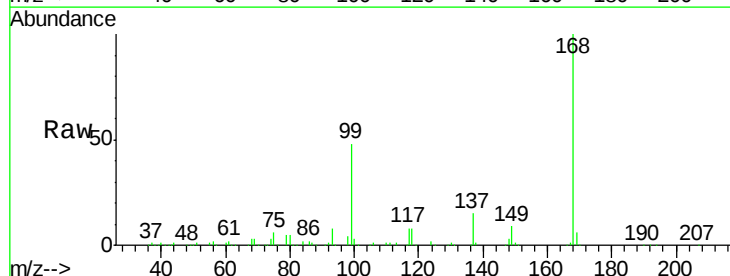
Tgt Ion: 75 Resp: 78556

Ion Ratio Lower Upper

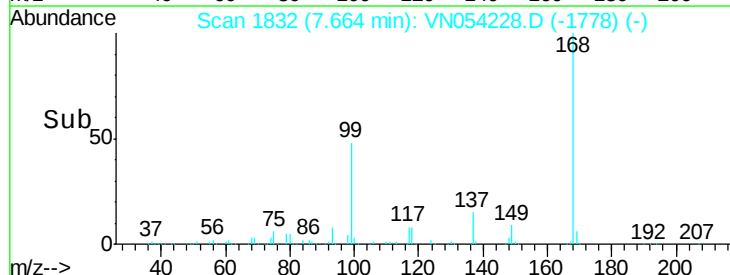
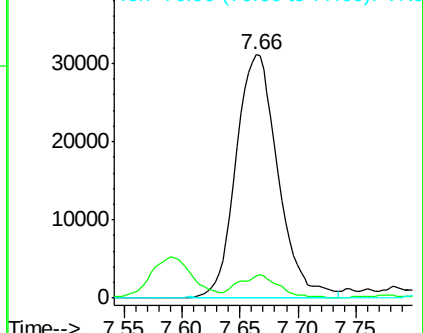
75 100

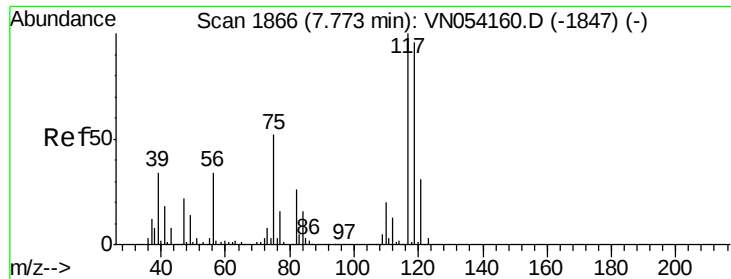
110 9.2 19.1 57.5#

77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VNO





#38

Carbon Tetrachloride

Concen: 5.024 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :

MSVOA_N

ClientSampled :

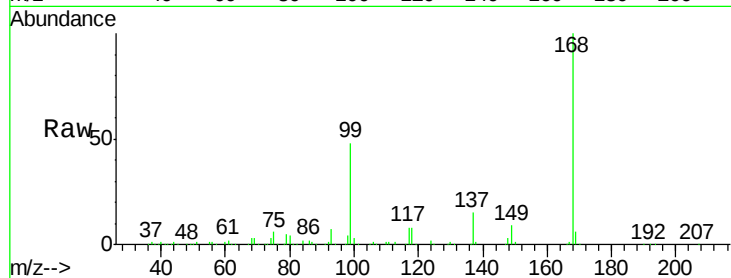
Tot Ion:117 Resp: 108216

Ion Ratio Lower Upper

117 100

119 5.4 76.3 114.5#

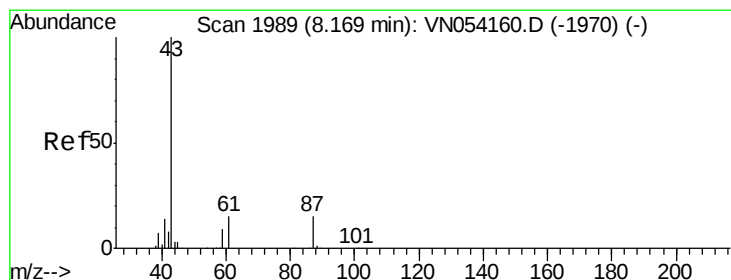
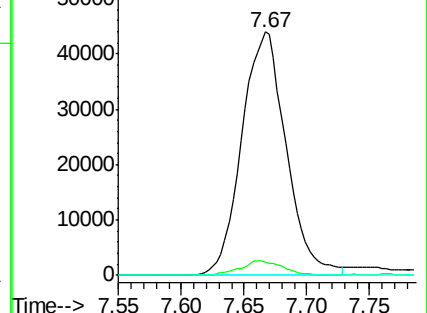
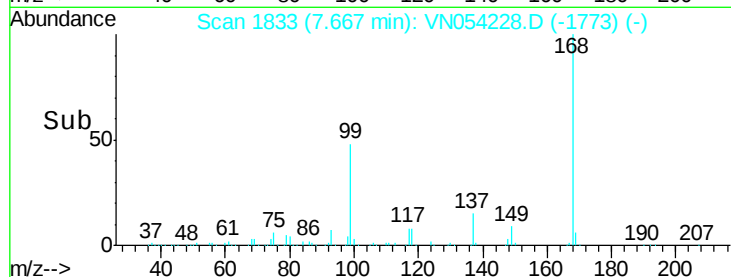
121 0.0 24.6 36.8#



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: 0.378 ug/l

RT: 8.27 min Scan# 2022

Delta R.T. 0.11 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

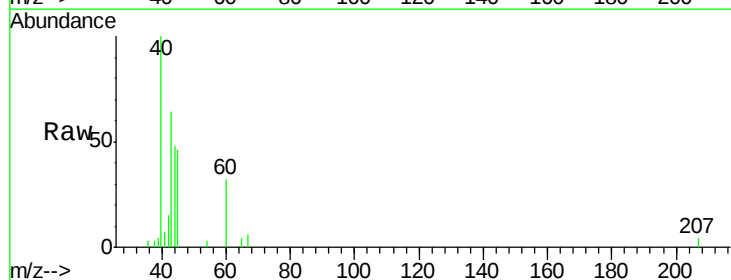
Tgt Ion: 43 Resp: 7835

Ion Ratio Lower Upper

43 100

61 0.0 15.8 23.8#

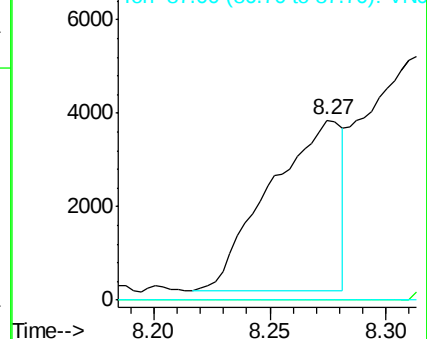
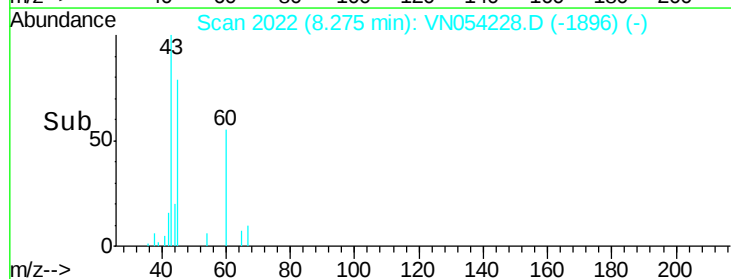
87 0.0 12.0 18.0#

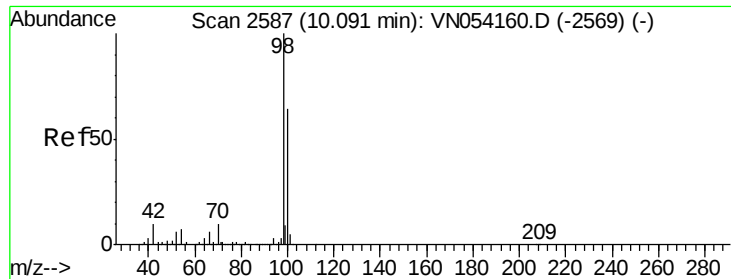


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: 52.478 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :

MSVOA_N

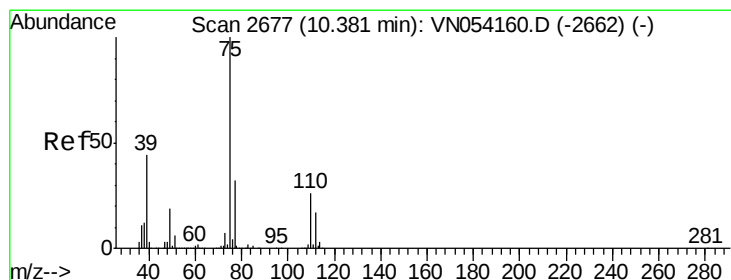
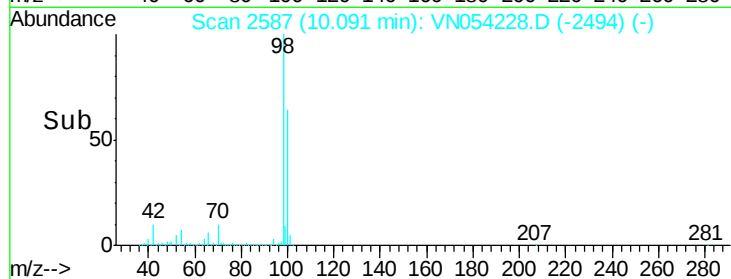
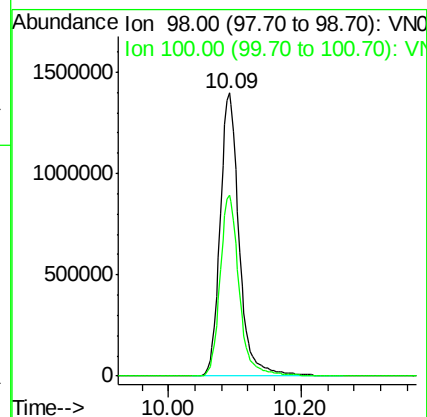
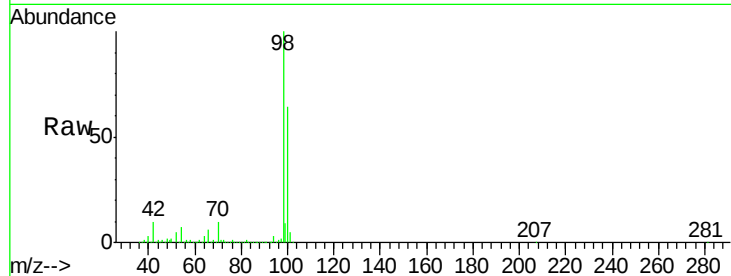
ClientSampleId :

Tot Ion: 98 Resp: 2788170

Ion Ratio Lower Upper

98 100

100 64.1 51.2 76.8



#53

t-1,3-Dichloropropene

Concen: 2.009 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. -0.00 min

Lab File: VN054228.D

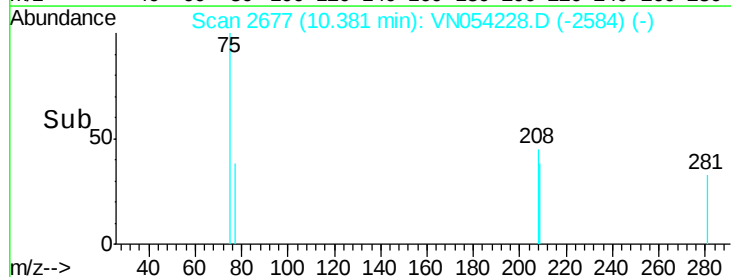
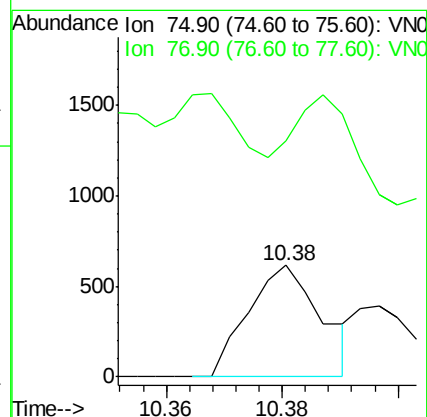
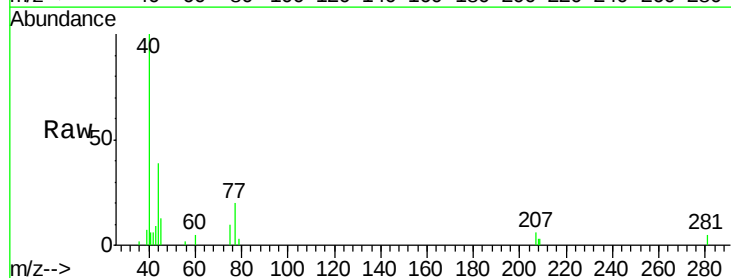
Acq: 13 Mar 2019 23:08

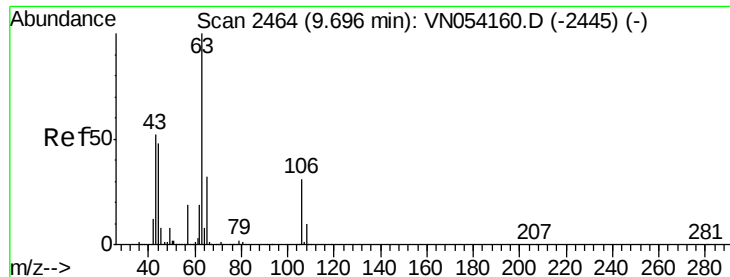
Tgt Ion: 75 Resp: 536

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#





#58

2-Chloroethyl Vinyl ether

Concen: 16.858 ug/l

RT: 9.69 min Scan# 2463

Delta R.T. -0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :

MSVOA_N

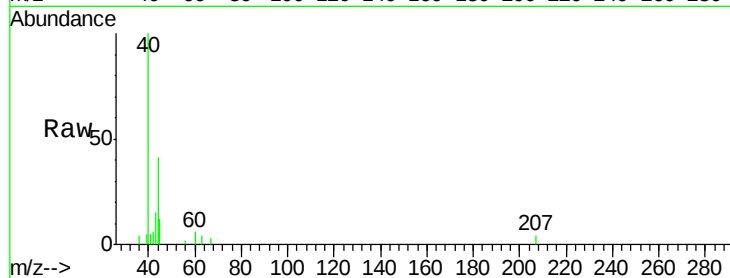
ClientSampled :

Tot Ion: 63 Resp: 230

Ion Ratio Lower Upper

63 100

106 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.69

200

150

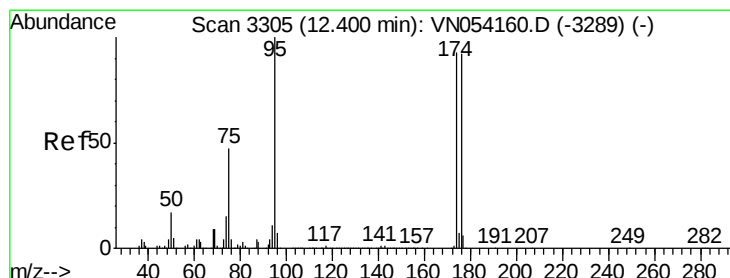
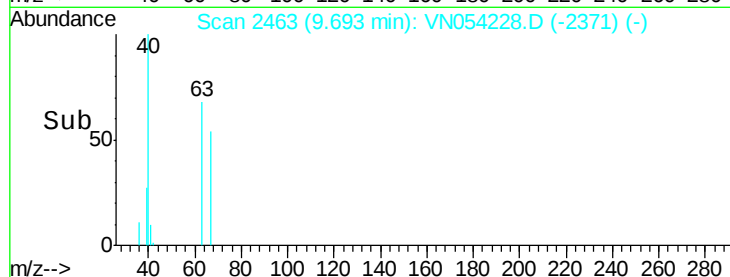
100

50

0

9.67 9.68 9.69 9.70

Time-->



#62

4-Bromofluorobenzene

Concen: 58.105 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

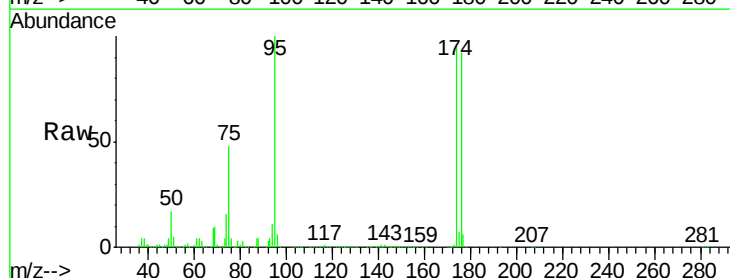
Tgt Ion: 95 Resp: 1080188

Ion Ratio Lower Upper

95 100

174 97.7 0.0 191.0

176 94.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

800000

600000

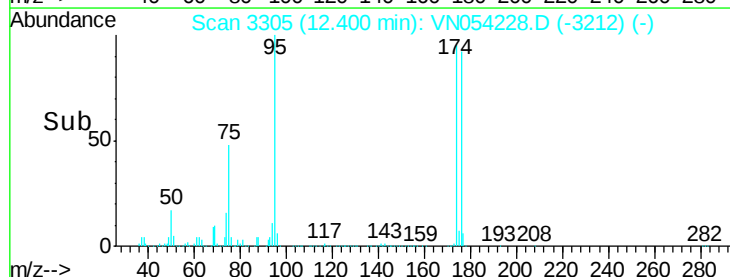
400000

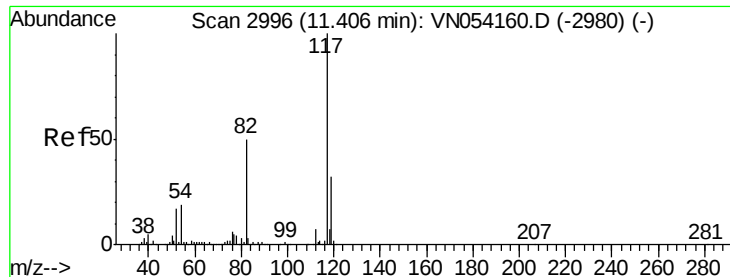
200000

0

12.30 12.40 12.50

Time-->

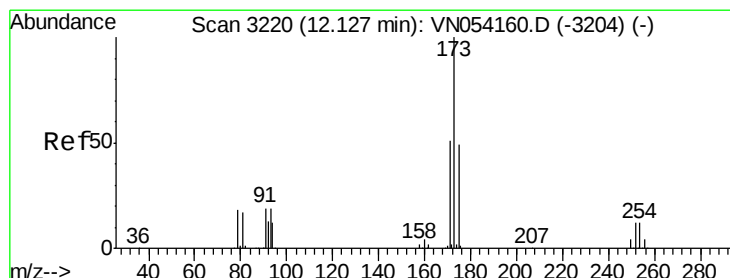
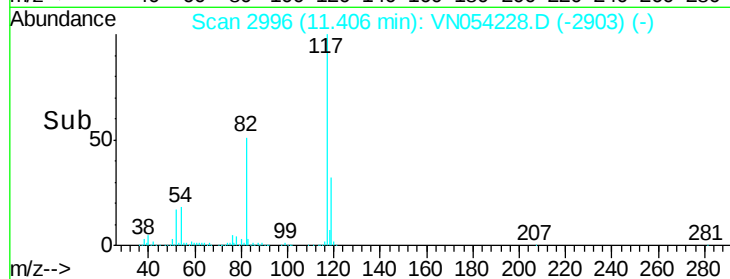
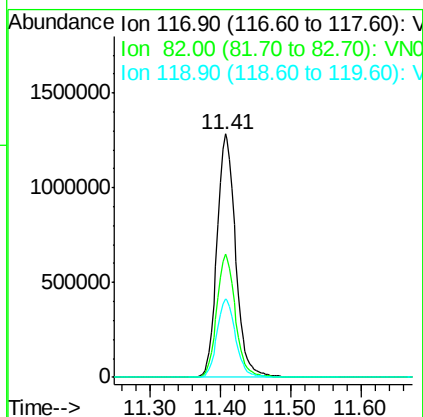
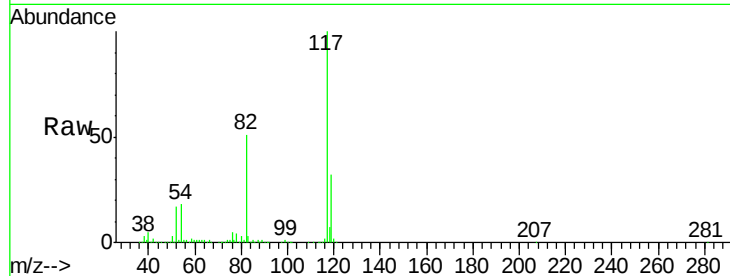




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054228.D
Acq: 13 Mar 2019 23:08

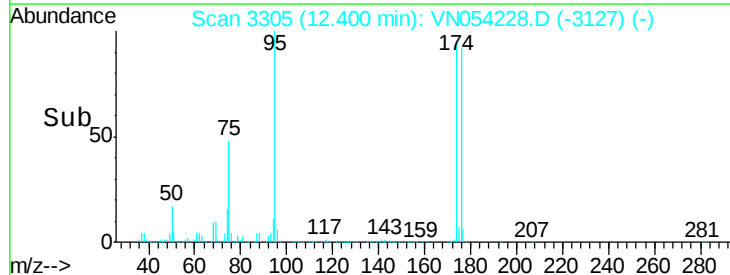
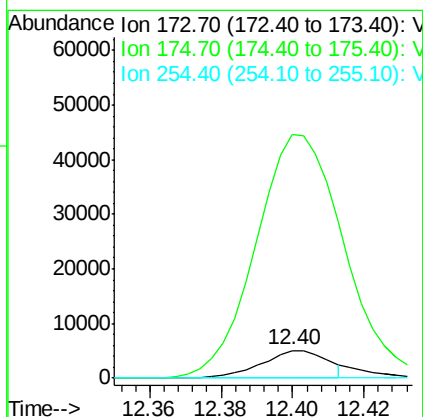
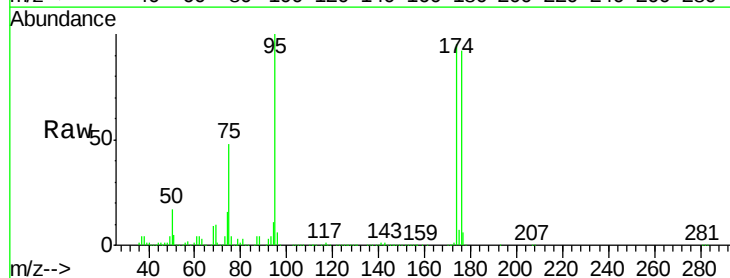
Instrument :
MSVOA_N
ClientSampleId :

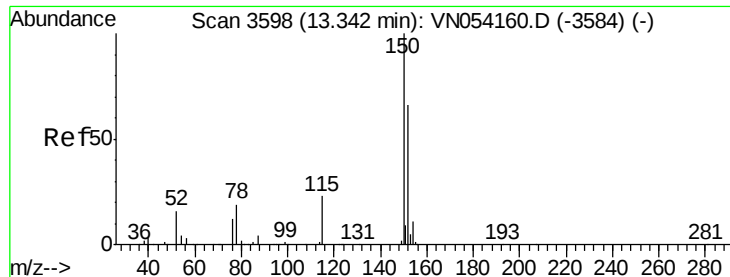
Tot Ion:117 Resp: 2347930
Ion Ratio Lower Upper
117 100
82 50.5 40.0 60.0
119 32.1 25.8 38.6



#71
Bromoform
Concen: 2.779 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054228.D
Acq: 13 Mar 2019 23:08

Tgt Ion:173 Resp: 6413
Ion Ratio Lower Upper
173 100
175 1013.8 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

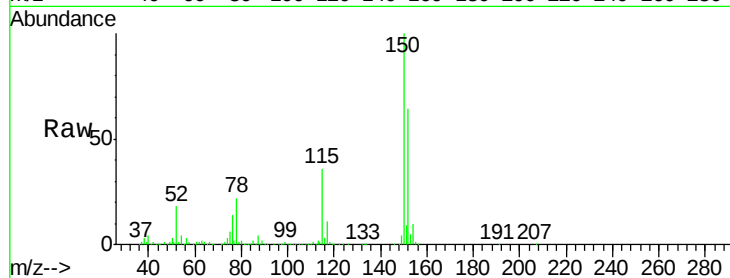
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:152 Resp: 1034362

Ion	Ratio	Lower	Upper
152	100		
115	54.7	27.2	81.6
150	155.6	0.0	349.2

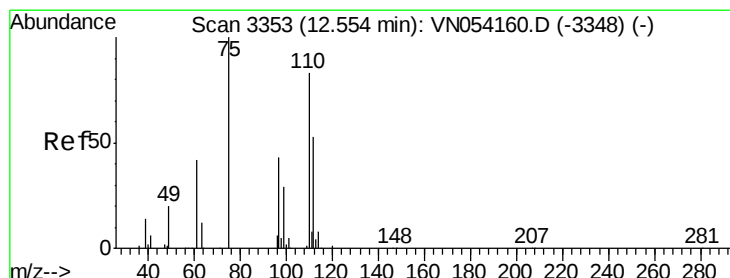
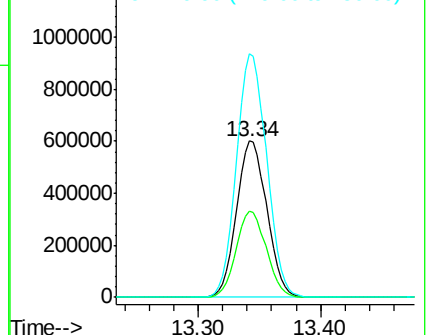
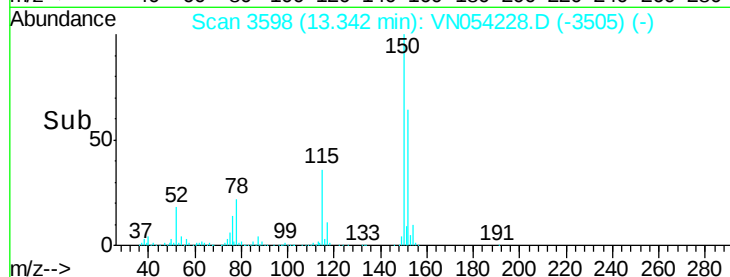


Abundance

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



#76

1,2,3-Trichloropropane

Concen: 34.135 ug/l

RT: 12.40 min Scan# 3305

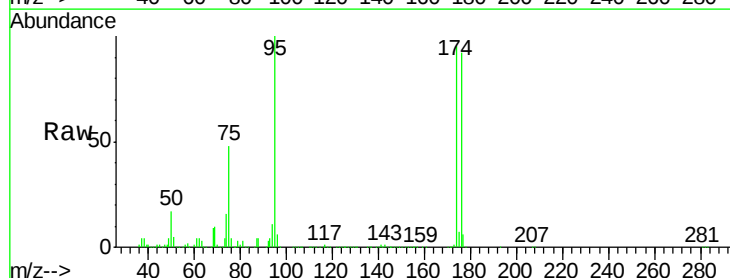
Delta R.T. -0.15 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Tgt Ion: 75 Resp: 519226

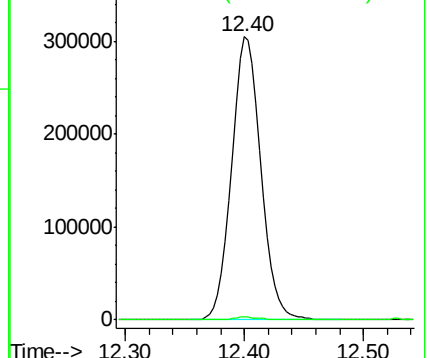
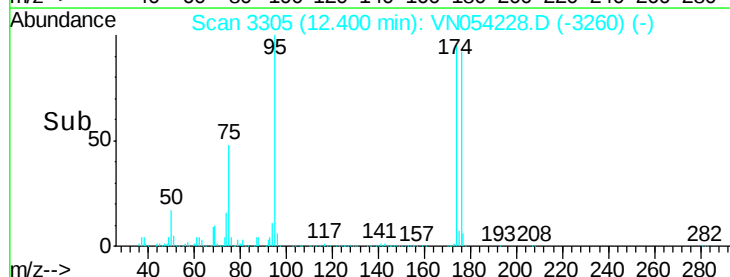
Ion	Ratio	Lower	Upper
75	100		
77	0.9	0.0	0.0#

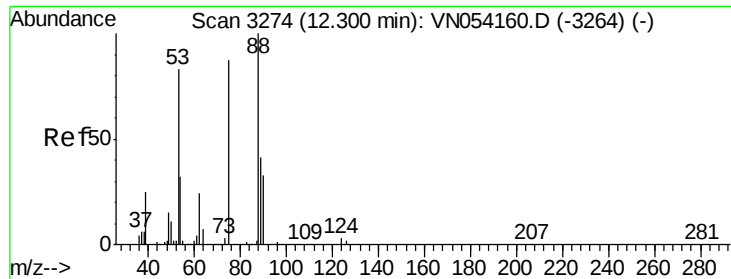


Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

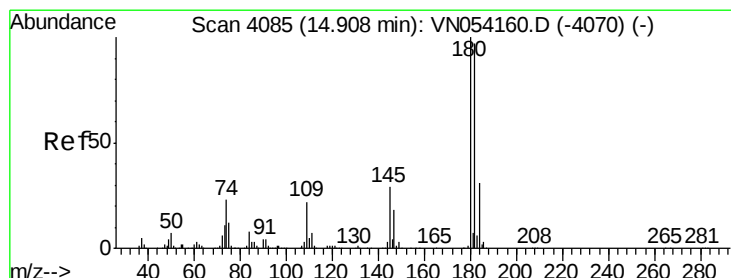
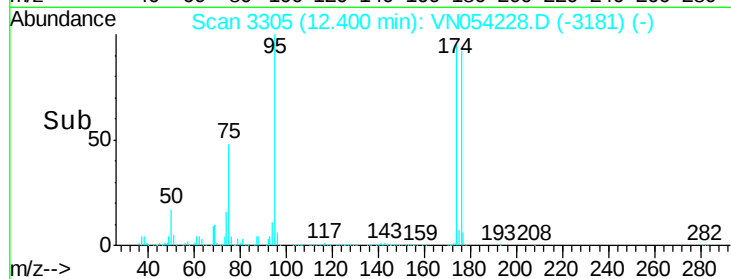
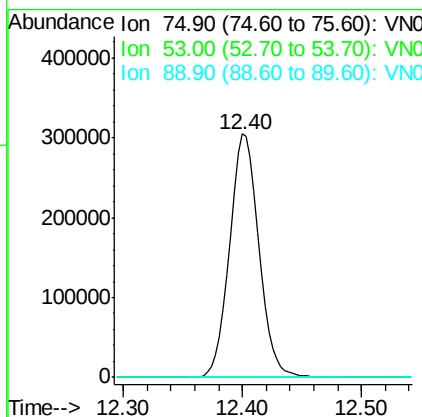
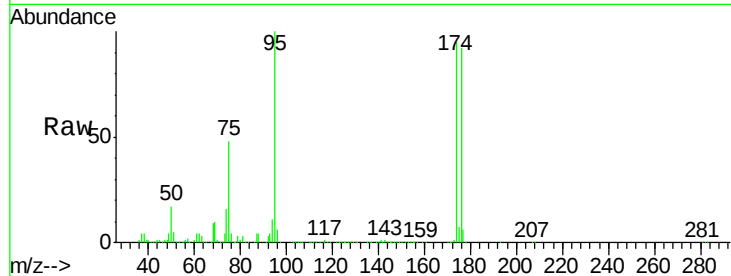




#81
trans-1,4-Dichloro-2-butene
Concen: 116.690 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054228.D
Acq: 13 Mar 2019 23:08

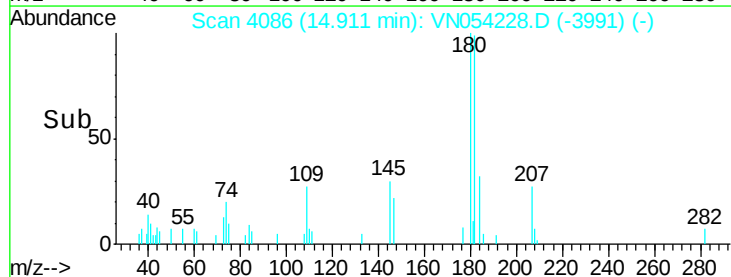
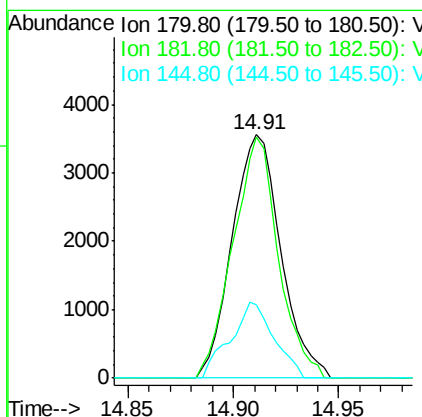
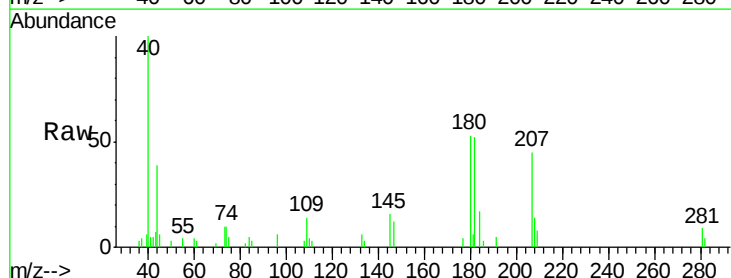
Instrument :
MSVOA_N
ClientSampleId :

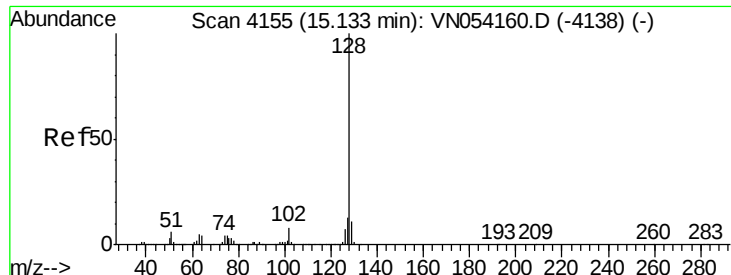
Tot Ion: 75 Resp: 519226
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.765 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN054228.D
Acq: 13 Mar 2019 23:08

Tgt Ion: 180 Resp: 5705
Ion Ratio Lower Upper
180 100
182 92.4 48.0 144.2
145 27.7 14.2 42.8





#95

Naphthalene

Concen: 3.804 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

Instrument :

MSVOA_N

ClientSampleId :

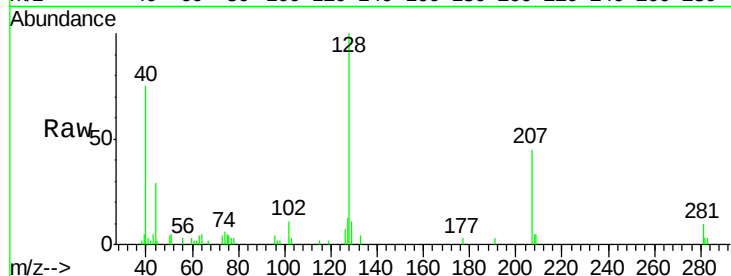
Tot Ion:128 Resp: 16292

Ion Ratio Lower Upper

128 100

127 15.2 10.1 15.1#

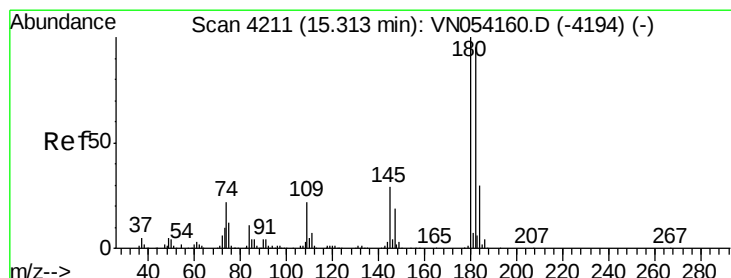
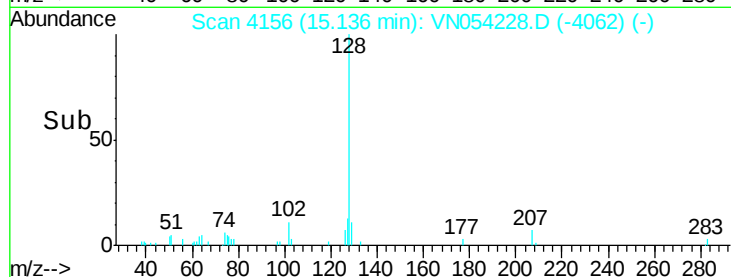
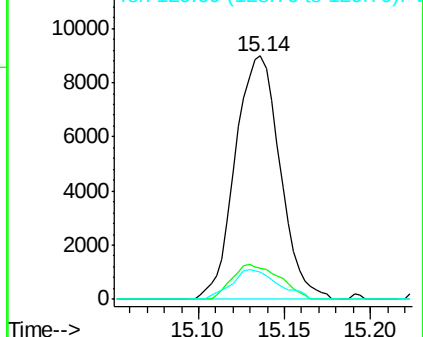
129 12.6 8.7 13.1



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: 0.356 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054228.D

Acq: 13 Mar 2019 23:08

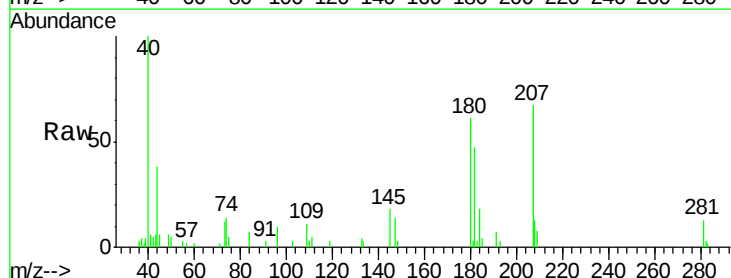
Tgt Ion:180 Resp: 6820

Ion Ratio Lower Upper

180 100

182 86.2 47.5 142.6

145 32.9 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

