

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054218.D
 Acq On : 13 Mar 2019 17:52
 Operator : JC/SP
 Sample : K1842-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 05:19:27 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	1431706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2298187	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2378771	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	971731	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	745360	49.02	ug/l	0.00
Spiked Amount			Recovery	=	98.04%	
35) Dibromofluoromethane	7.59	113	708252	47.78	ug/l	0.00
Spiked Amount			Recovery	=	95.56%	
50) Toluene-d8	10.09	98	2885466	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.40	95	1063693	55.53	ug/l	0.00
Spiked Amount			Recovery	=	111.06%	

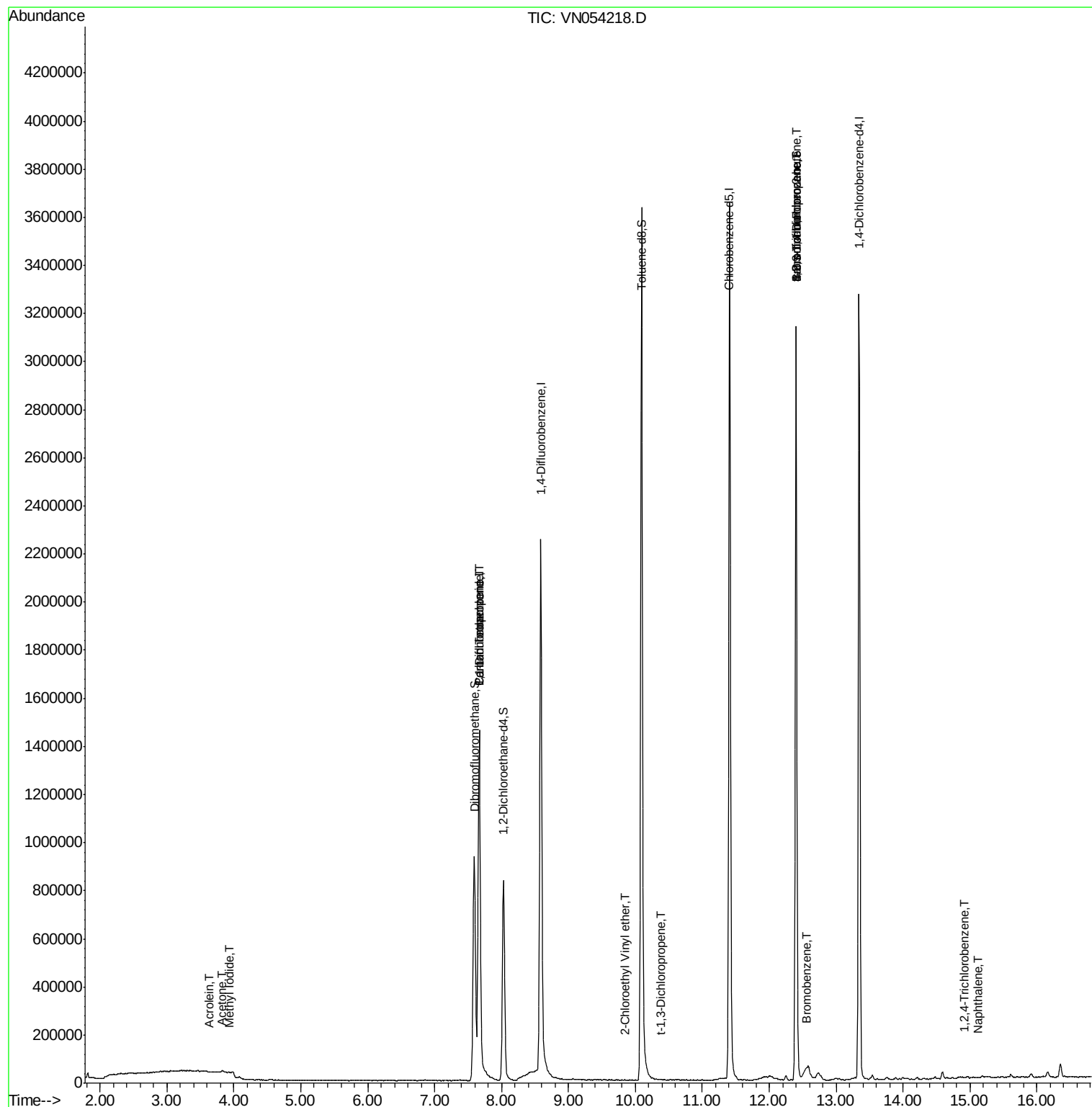
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.94	142	62	1.500	ug/l #	45
13) Acrolein	3.62	56	340	0.344	ug/l	98
16) Acetone	3.82	43	6223	1.429	ug/l	96
31) Cyclohexane	7.67	56	20988	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	83105	3.927	ug/l #	48
38) Carbon Tetrachloride	7.67	117	116525	5.250	ug/l #	16
53) t-1,3-Dichloropropene	10.38	75	61	1.988	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.83	63	29	16.832	ug/l #	44
71) Bromoform	12.40	173	6459	2.776	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	511740	35.812	ug/l #	100
77) Bromobenzene	12.55	156	34197	1.662	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	511740	122.420	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.90	180	525	2.541	ug/l #	1
95) Naphthalene	15.13	128	3491	3.546	ug/l #	95

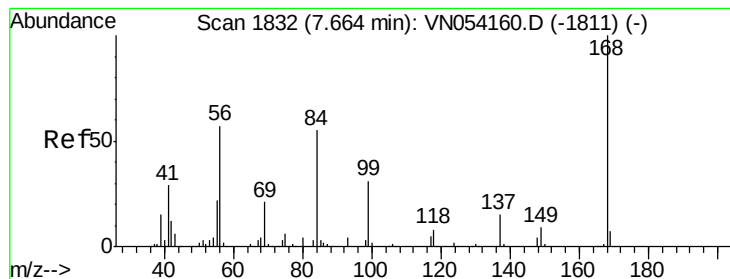
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :

MSVOA_N

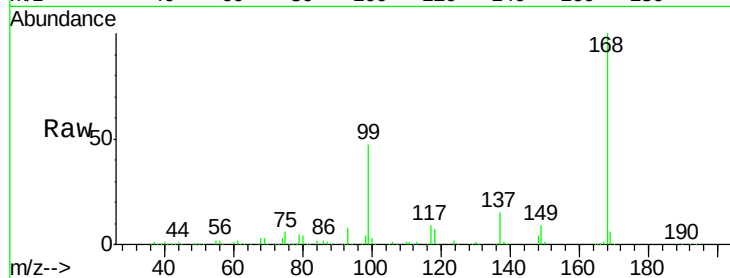
ClientSampleId :

Tot Ion:168 Resp: 1431706

Ion Ratio Lower Upper

168 100

99 47.3 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

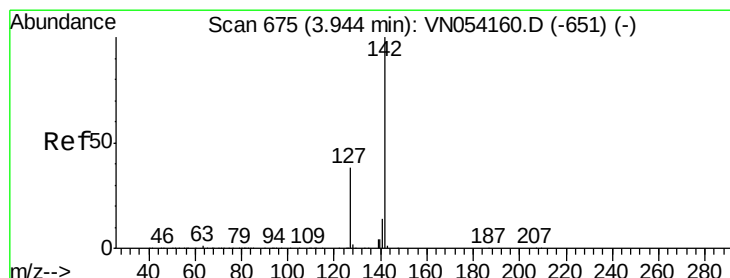
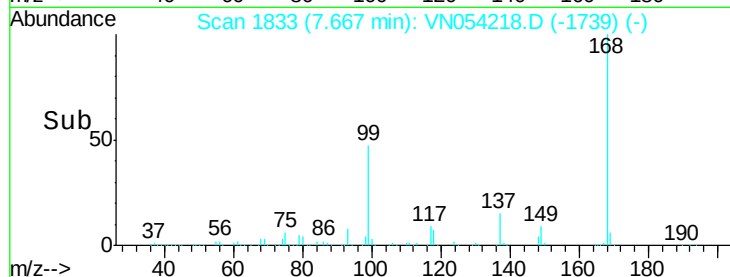
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 1.500 ug/l

RT: 3.94 min Scan# 674

Delta R.T. -0.00 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

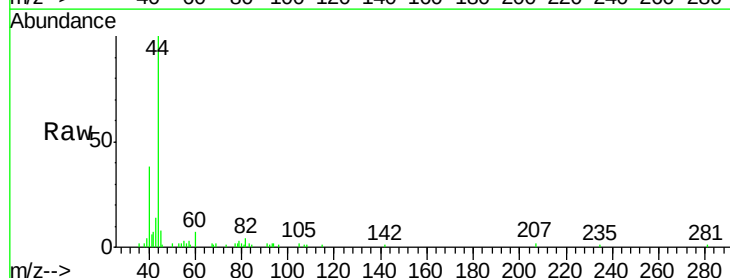
Tgt Ion:142 Resp: 62

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 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

200

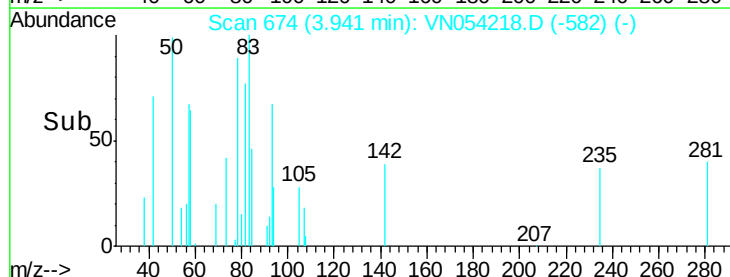
150

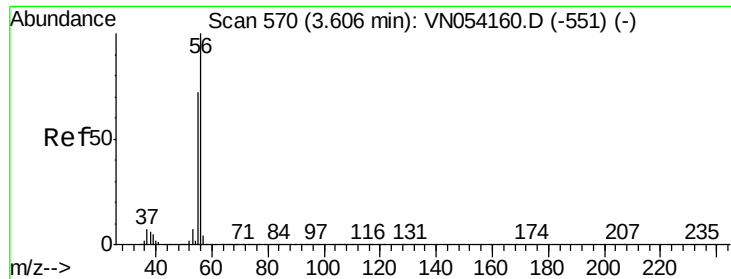
100

50

0

Time--> 3.93 3.94 3.95





#13

Acrolein

Concen: 0.344 ug/l

RT: 3.62 min Scan# 575

Delta R.T. 0.02 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

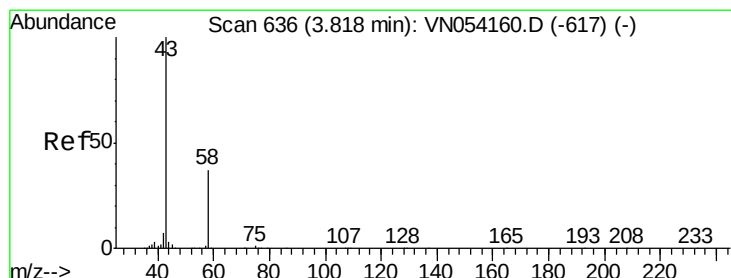
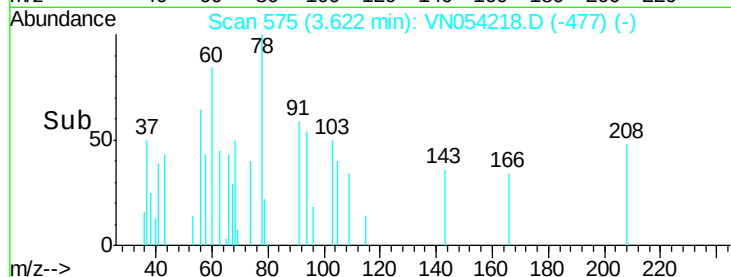
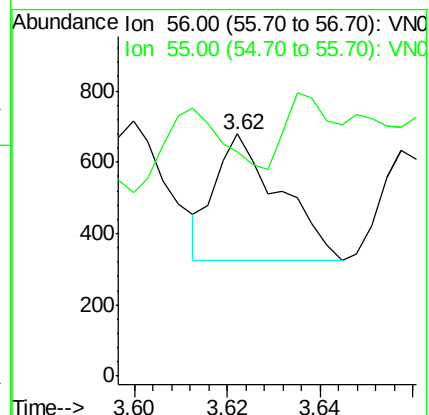
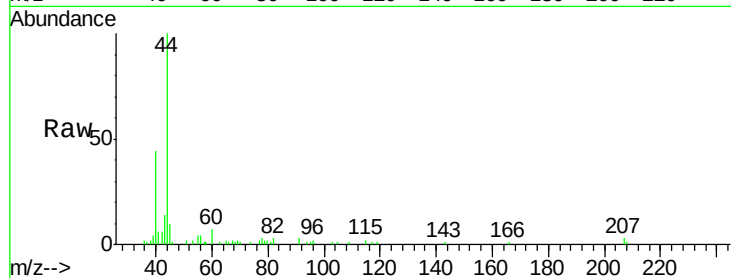
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 340

Ion Ratio Lower Upper

56 100

55 69.4 56.7 85.1



#16

Acetone

Concen: 1.429 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054218.D

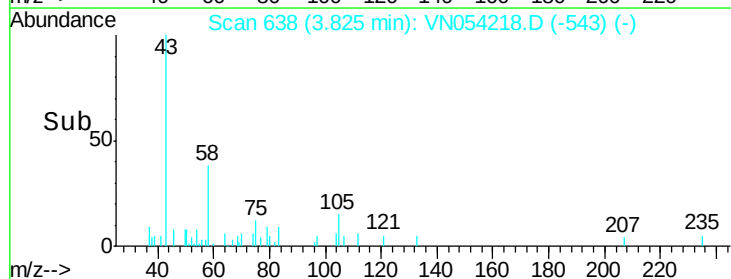
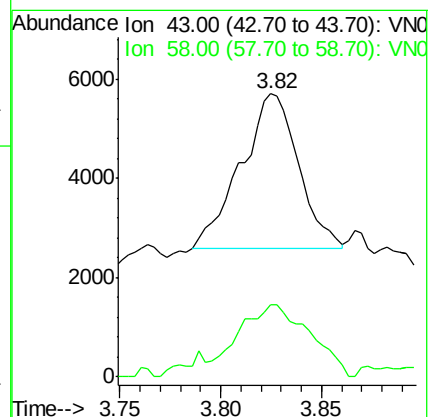
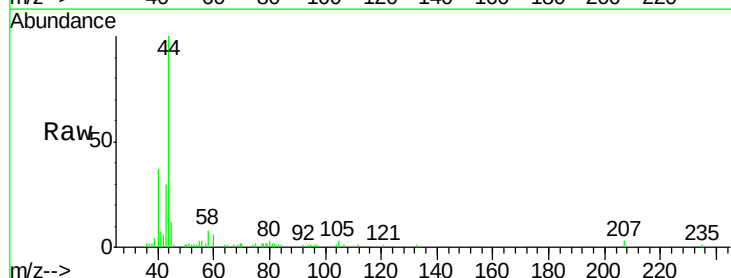
Acq: 13 Mar 2019 17:52

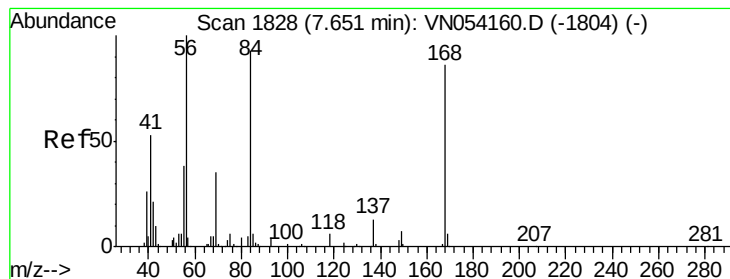
Tgt Ion: 43 Resp: 6223

Ion Ratio Lower Upper

43 100

58 39.7 29.9 44.9





#31

Cyclohexane

Concen: Below Cal

RT: 7.67 min Scan# 1833

Delta R.T. 0.02 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :
MSVOA_N
ClientSampleId :

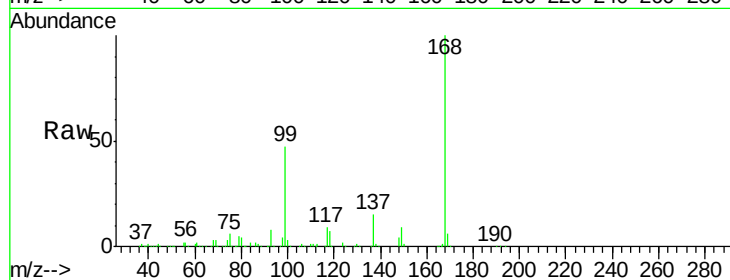
Tot Ion: 56 Resp: 20988

Ion Ratio Lower Upper

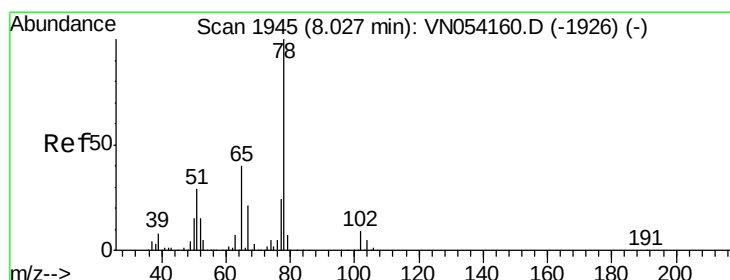
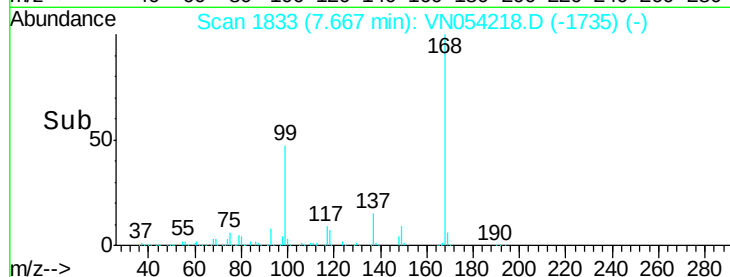
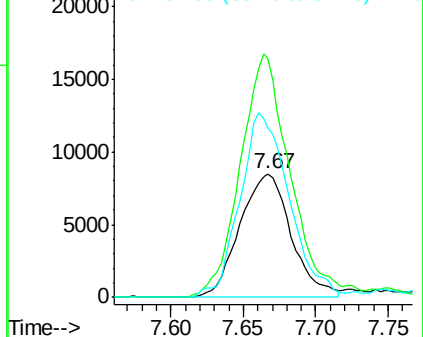
56 100

69 193.8 27.8 41.6#

84 137.3 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: 49.021 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN054218.D

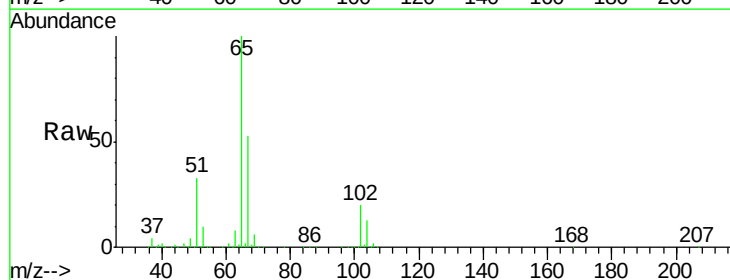
Acq: 13 Mar 2019 17:52

Tgt Ion: 65 Resp: 745360

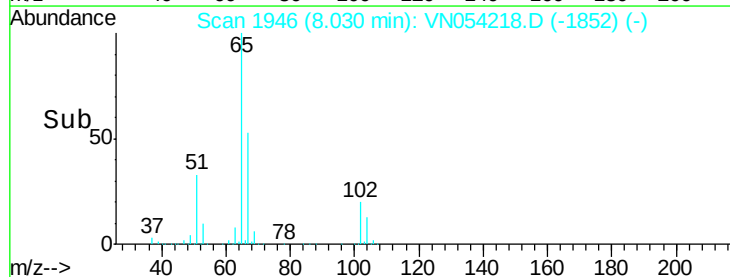
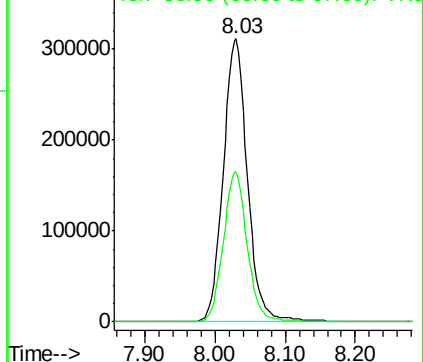
Ion Ratio Lower Upper

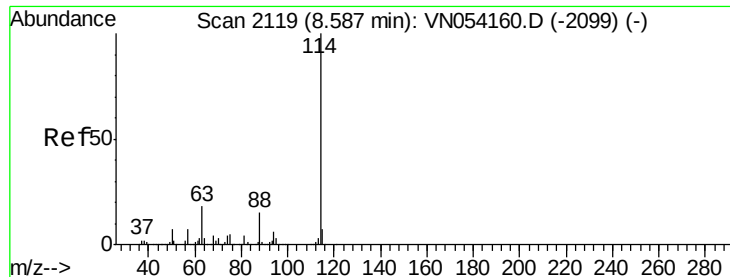
65 100

67 52.8 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0



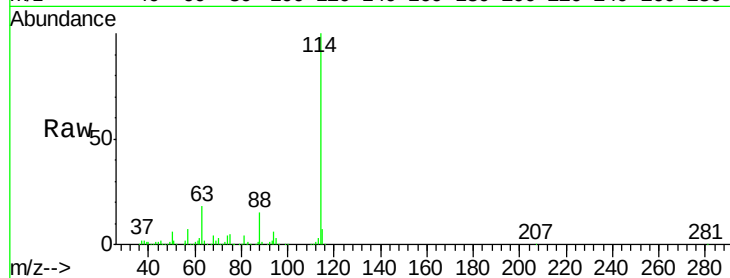


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054218.D
 Acq: 13 Mar 2019 17:52

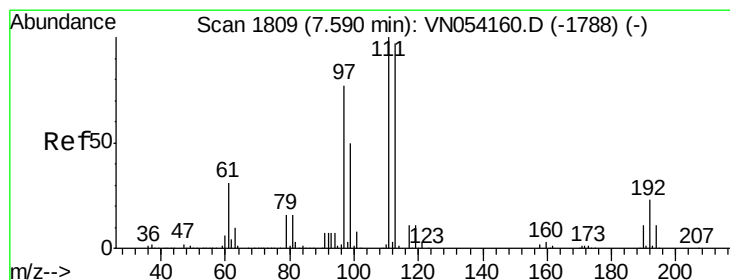
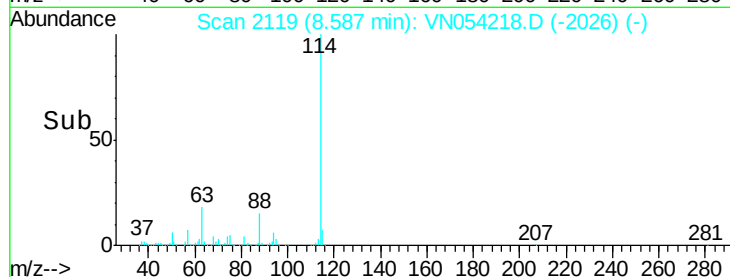
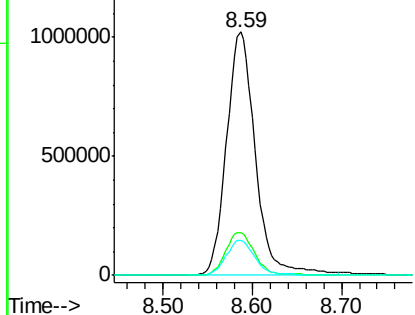
Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 2298187

Ion	Ratio	Lower	Upper
114	100		
63	17.7	0.0	35.2
88	14.5	0.0	30.2



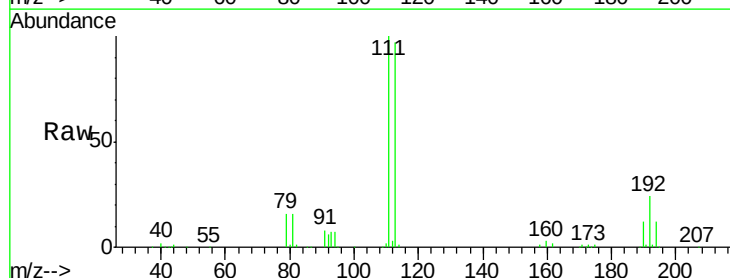
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V



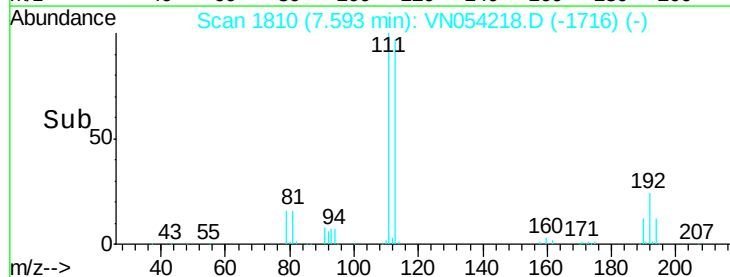
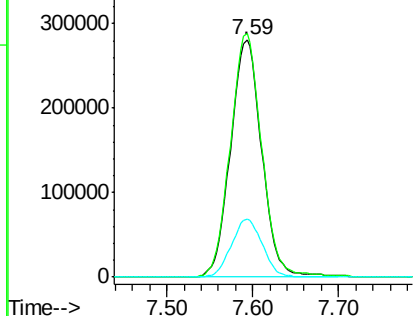
#35
 Dibromofluoromethane
 Concen: 47.783 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054218.D
 Acq: 13 Mar 2019 17:52

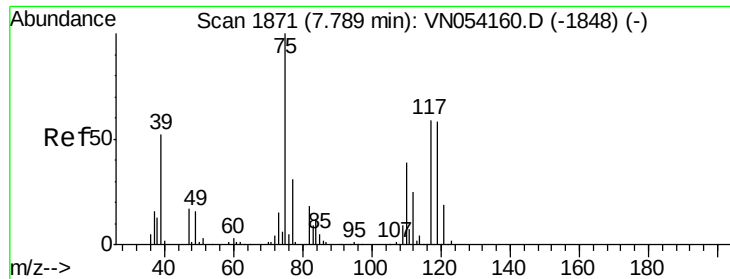
Tgt Ion:113 Resp: 708252

Ion	Ratio	Lower	Upper
113	100		
111	103.2	82.2	123.4
192	24.2	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

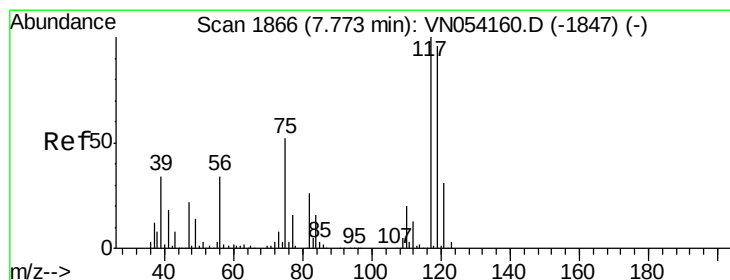
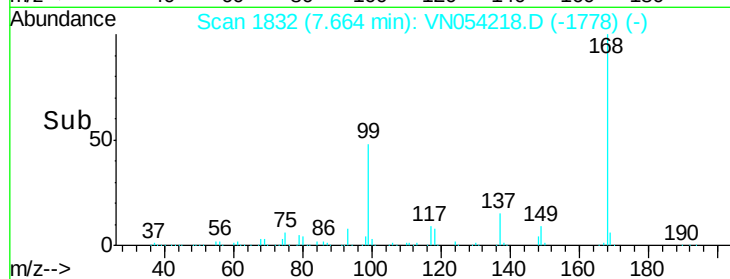
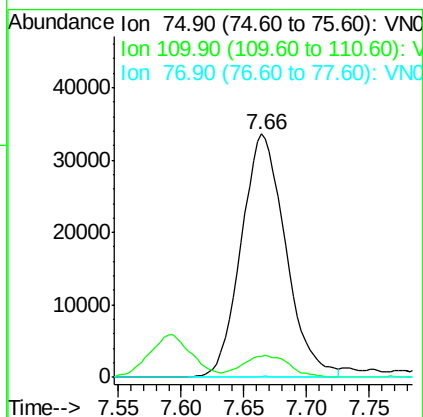
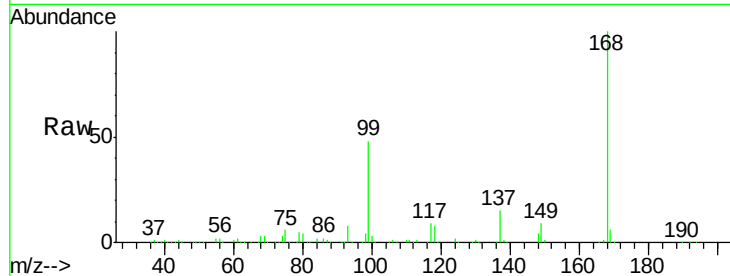




#36
 1,1-Dichloropropene
 Concen: 3.927 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054218.D
 Acq: 13 Mar 2019 17:52

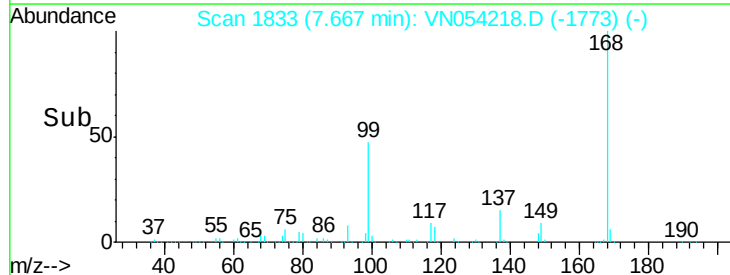
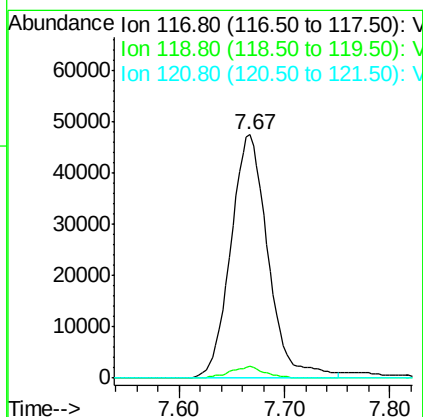
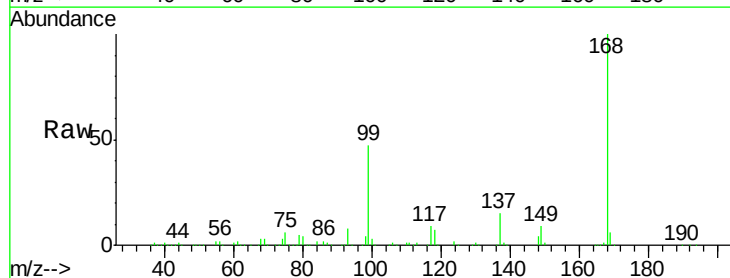
Instrument :
 MSVOA_N
 ClientSampleId :

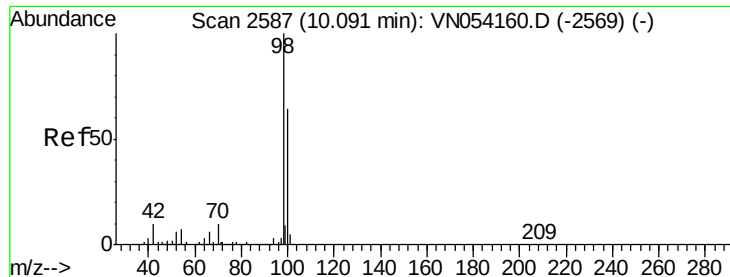
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.5	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.250 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054218.D
 Acq: 13 Mar 2019 17:52

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.7	76.3	114.5#
121	0.0	24.6	36.8#





#50

Toluene-d8

Concen: 52.711 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :

MSVOA_N

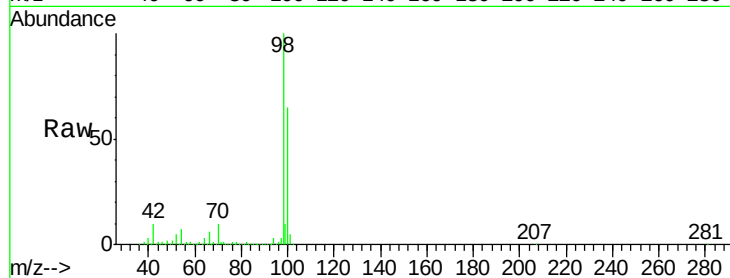
ClientSampleId :

Tot Ion: 98 Resp: 2885466

Ion Ratio Lower Upper

98 100

100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054160.D (-2569) (-)

10.09

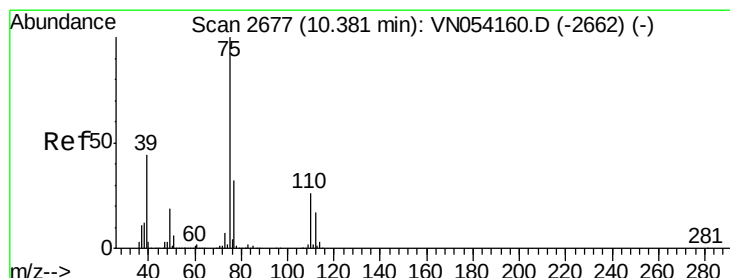
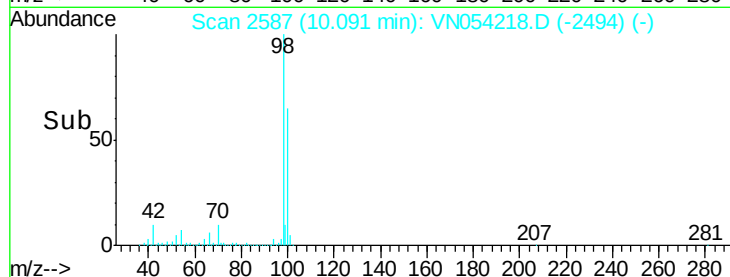
1500000

1000000

500000

0

Time-->



#53

t-1,3-Dichloropropene

Concen: 1.988 ug/l

RT: 10.38 min Scan# 2676

Delta R.T. -0.00 min

Lab File: VN054218.D

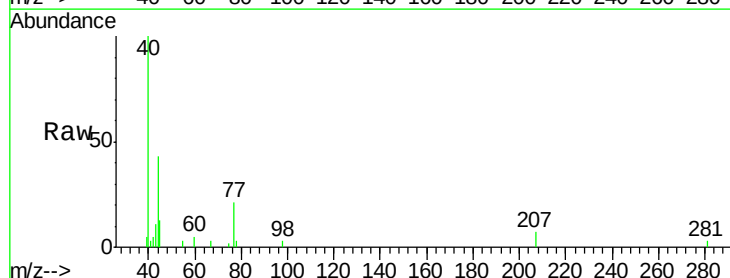
Acq: 13 Mar 2019 17:52

Tgt Ion: 75 Resp: 61

Ion Ratio Lower Upper

75 100

77 228.7 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054160.D (-2662) (-)

Ion 76.90 (76.60 to 77.60): VN054160.D (-2662) (-)

10.38

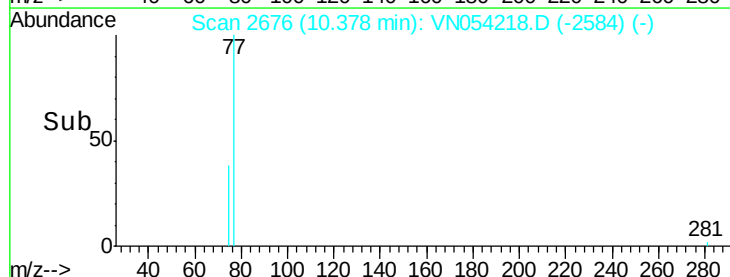
1500

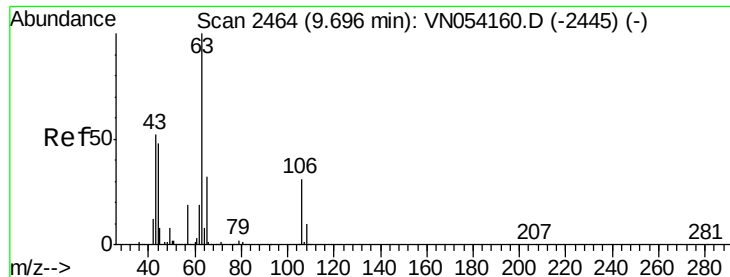
1000

500

0

Time-->





#58

2-Chloroethyl Vinyl ether

Concen: 16.832 ug/l

RT: 9.83 min Scan# 2507

Delta R.T. 0.14 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :

MSVOA_N

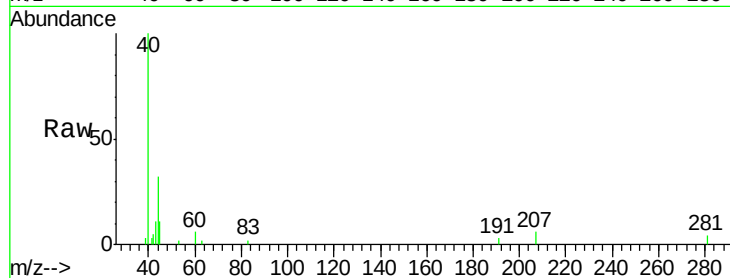
ClientSampleId :

Tot Ion: 63 Resp: 29

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

9.83

150

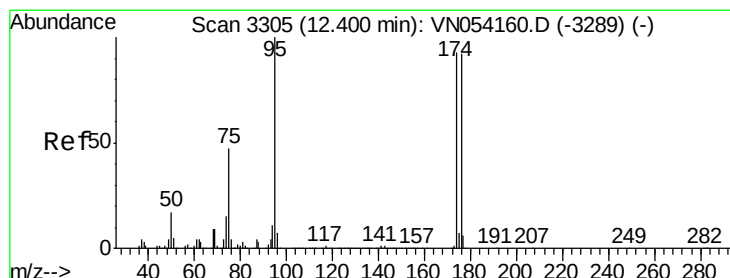
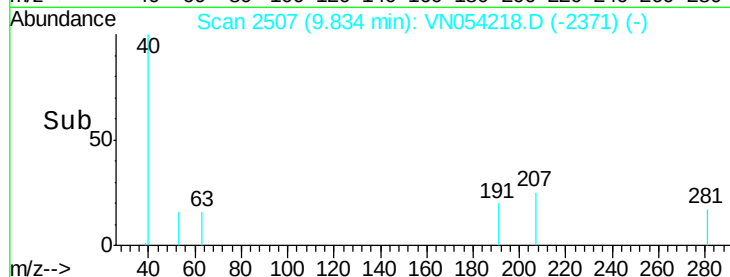
100

50

0

9.82 9.83 9.84 9.85

Time-->



#62

4-Bromofluorobenzene

Concen: 55.534 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

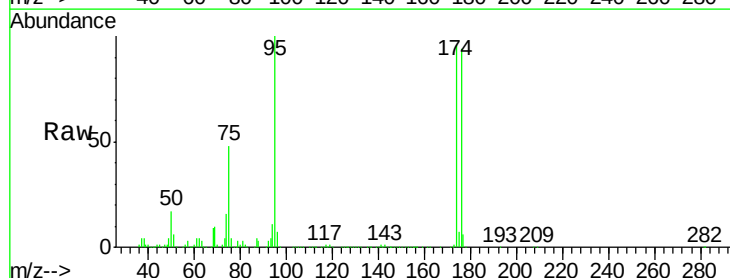
Tgt Ion: 95 Resp: 1063693

Ion Ratio Lower Upper

95 100

174 97.1 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

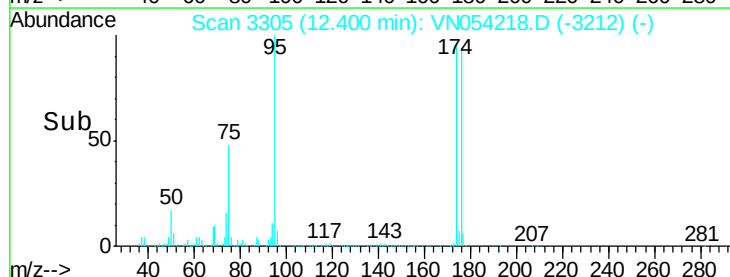
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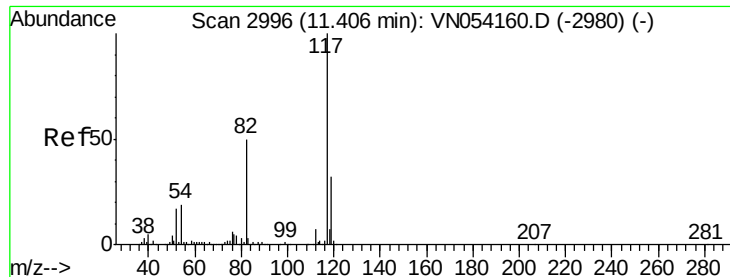
200000

0

12.30 12.40 12.50

Time-->

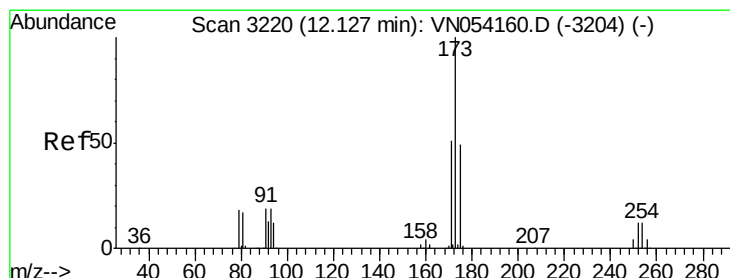
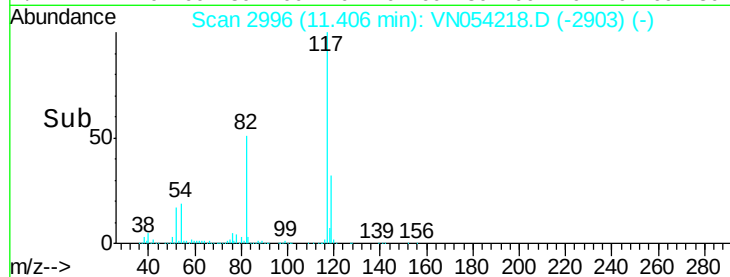
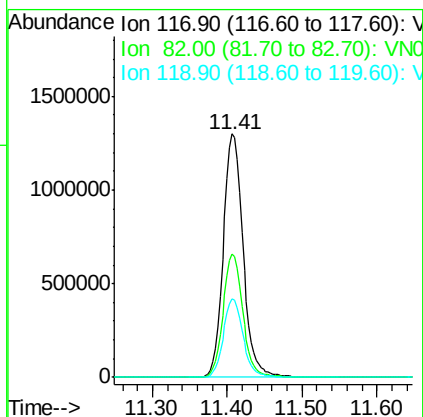
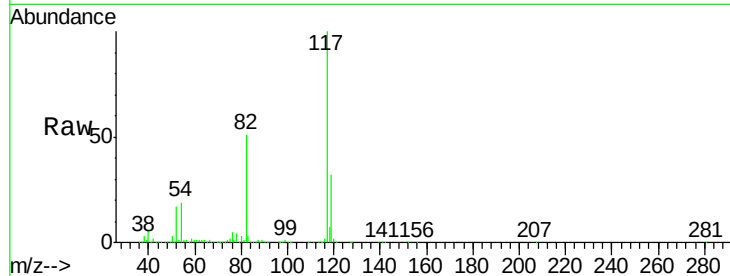




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054218.D
Acq: 13 Mar 2019 17:52

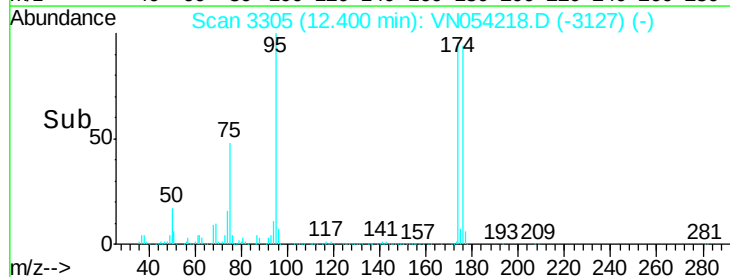
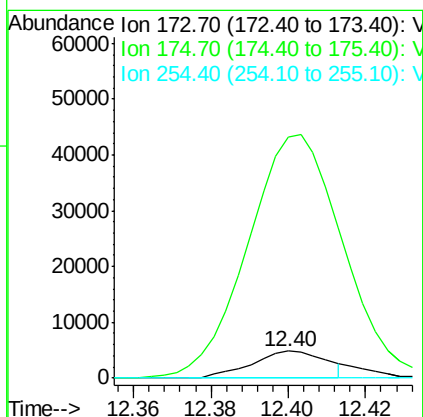
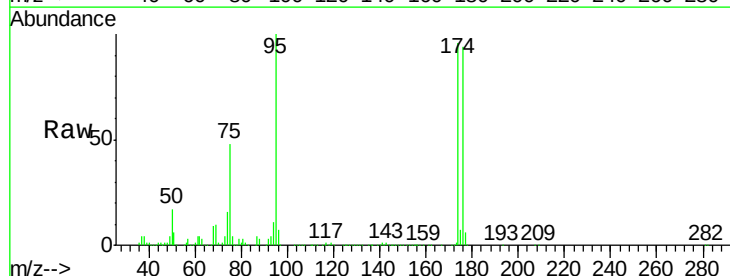
Instrument :
MSVOA_N
ClientSampleId :

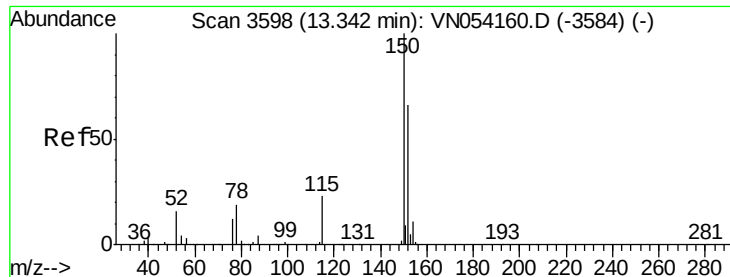
Tot Ion:117 Resp: 2378771
Ion Ratio Lower Upper
117 100
82 50.7 40.0 60.0
119 32.3 25.8 38.6



#71
Bromoform
Concen: 2.776 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN054218.D
Acq: 13 Mar 2019 17:52

Tgt Ion:173 Resp: 6459
Ion Ratio Lower Upper
173 100
175 996.8 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: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :

MSVOA_N

ClientSampled :

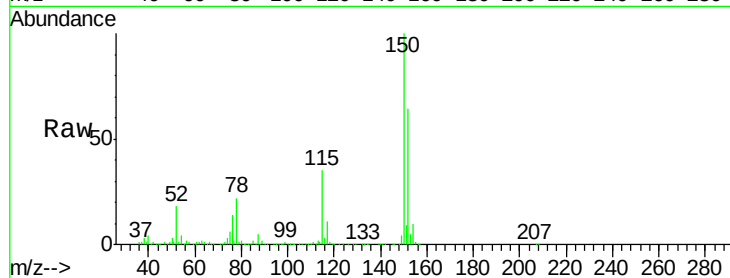
Tot Ion:152 Resp: 971731

Ion Ratio Lower Upper

152 100

115 55.0 27.2 81.6

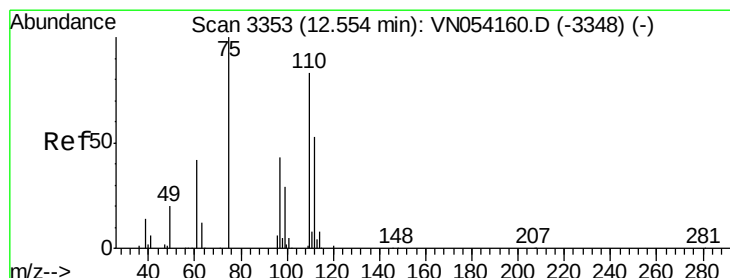
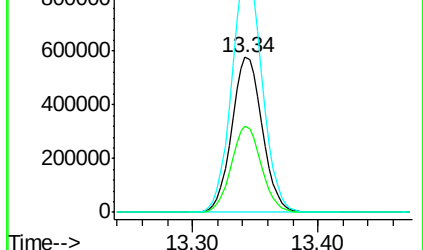
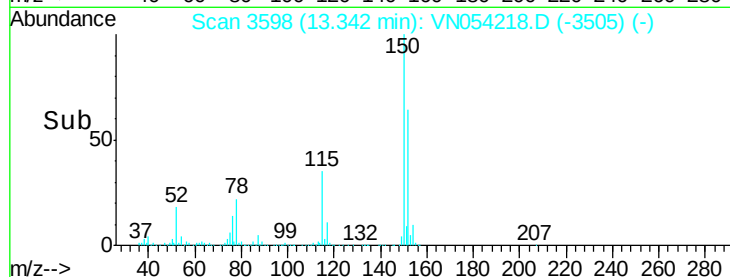
150 156.3 0.0 349.2



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: 35.812 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054218.D

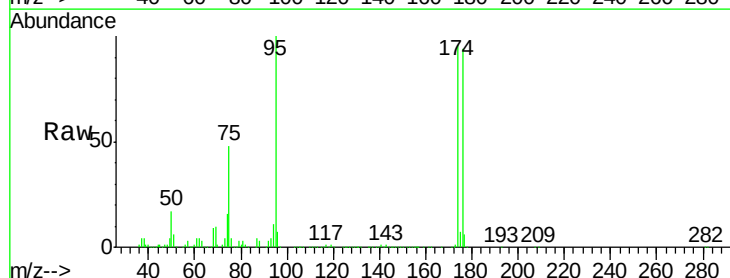
Acq: 13 Mar 2019 17:52

Tgt Ion: 75 Resp: 511740

Ion Ratio Lower Upper

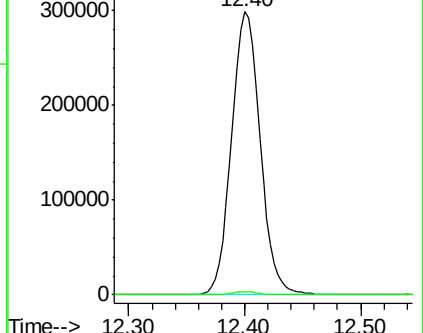
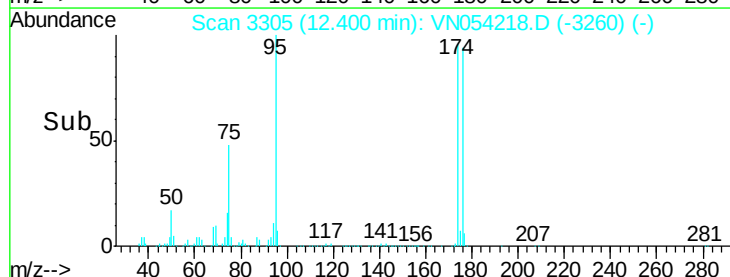
75 100

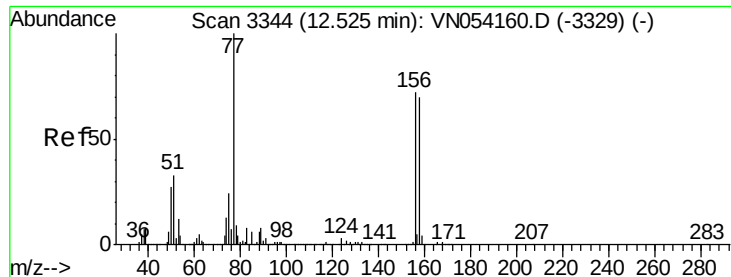
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 1.662 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. 0.03 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :

MSVOA_N

ClientSampleId :

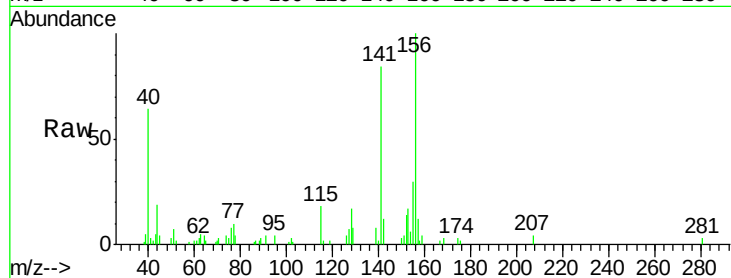
Tot Ion:156 Resp: 34197

Ion Ratio Lower Upper

156 100

77 1.5 81.5 244.4#

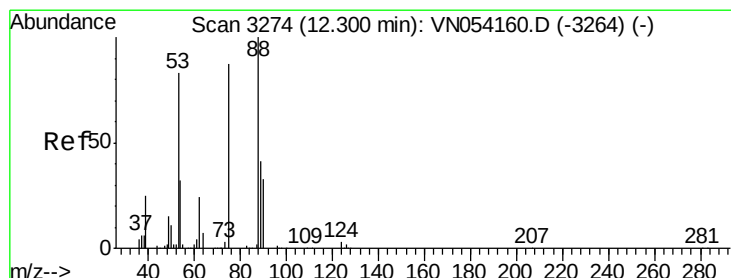
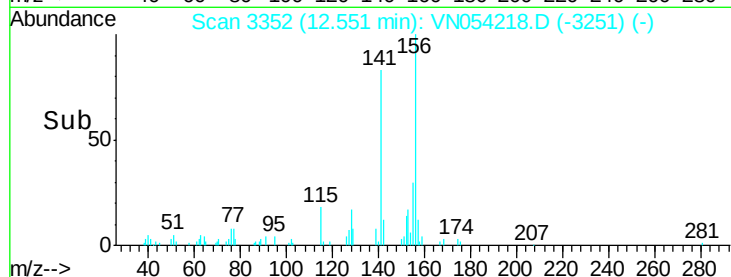
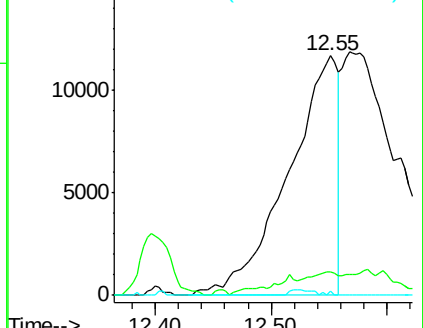
158 0.0 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 122.420 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

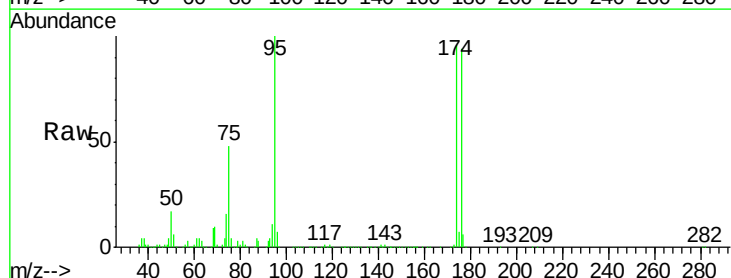
Tgt Ion: 75 Resp: 511740

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

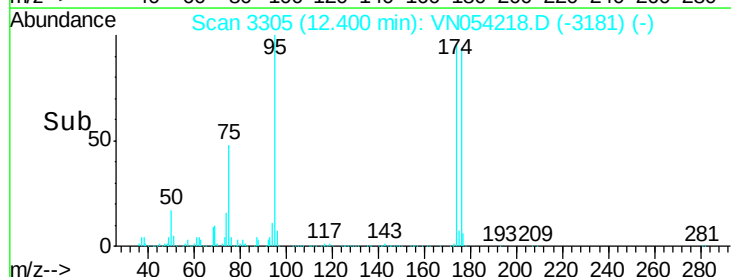
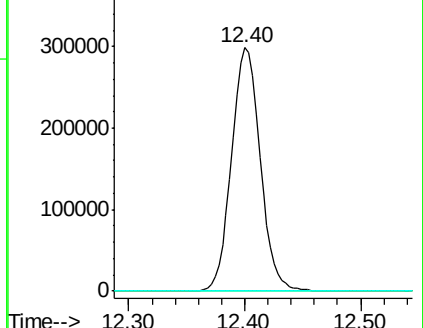
89 0.0 39.2 58.8#

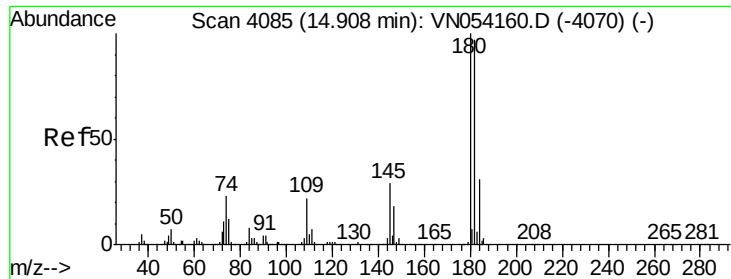


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#93

1,2,4-Trichlorobenzene

Concen: 2.541 ug/l

RT: 14.90 min Scan# 4083

Delta R.T. -0.01 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

Instrument :

MSVOA_N

ClientSampled :

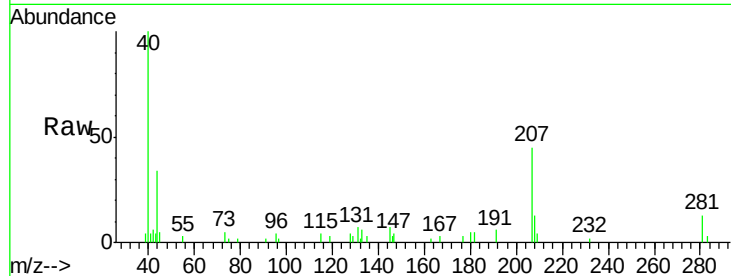
Tot Ion:180 Resp: 525

Ion Ratio Lower Upper

180 100

182 0.0 48.0 144.2#

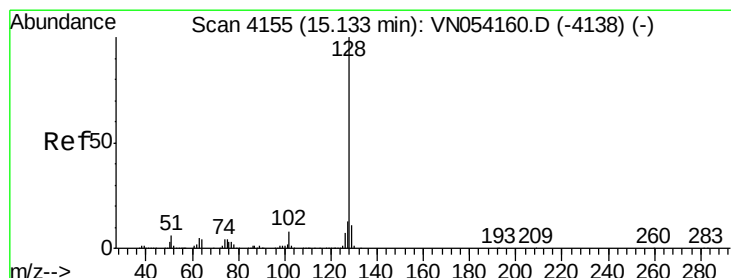
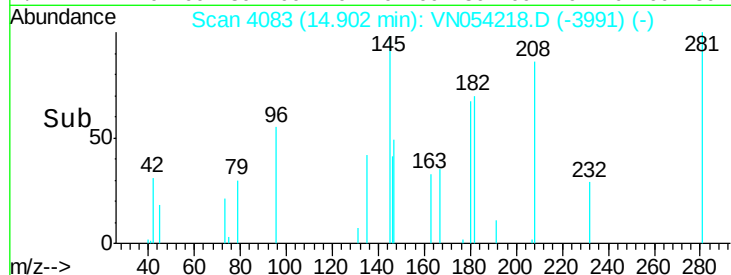
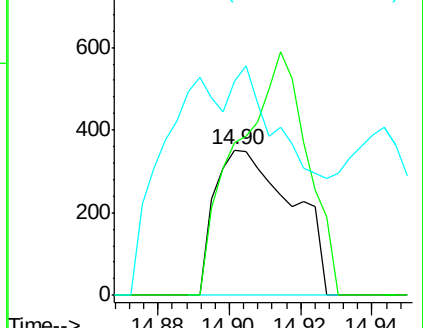
145 120.2 14.2 42.8#



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: 3.546 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN054218.D

Acq: 13 Mar 2019 17:52

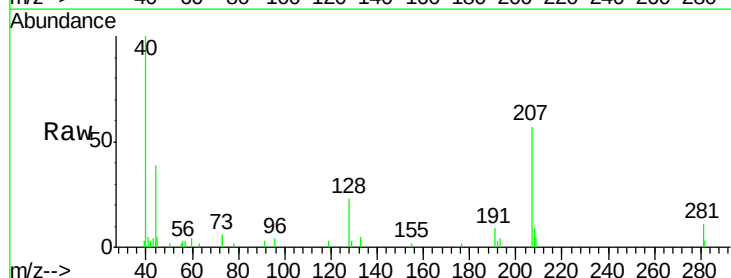
Tgt Ion:128 Resp: 3491

Ion Ratio Lower Upper

128 100

127 9.0 10.1 15.1#

129 10.8 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

