

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058550.D
 Acq On : 4 Oct 2019 18:44
 Operator : JC/SP
 Sample : K5193-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:41:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	415216	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	674363	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	661741	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	240520	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	295099	48.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.26%	
35) Dibromofluoromethane	7.57	113	187127	45.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.56%	
50) Toluene-d8	10.08	98	853465	52.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.42%	
62) 4-Bromofluorobenzene	12.41	95	311583	53.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.44%	

Target Compounds

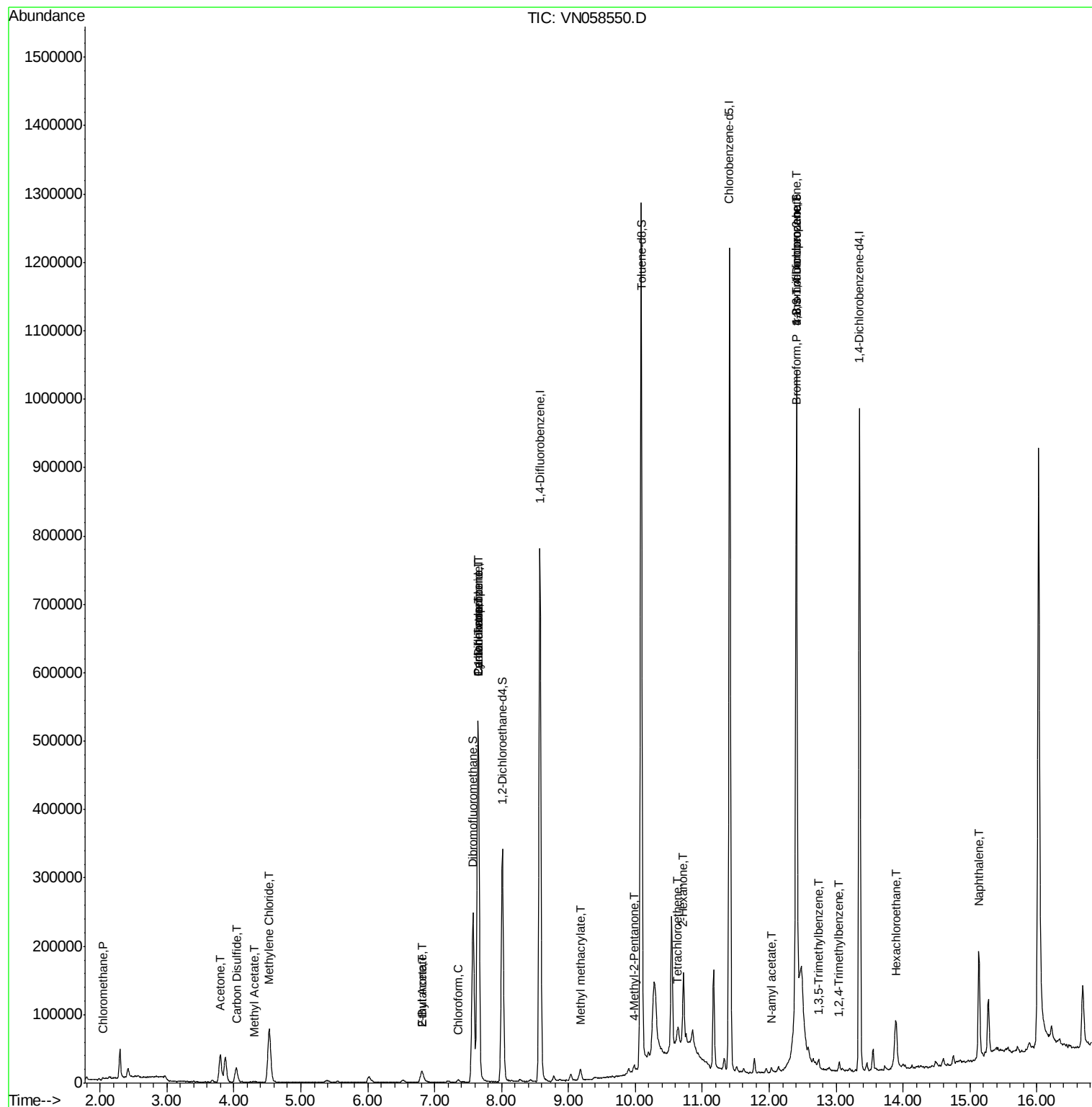
						Qvalue
3) Chloromethane	2.04	50	1755	0.351	ug/l #	85
16) Acetone	3.80	43	69916	33.802	ug/l	98
17) Carbon Disulfide	4.03	76	23781	2.303	ug/l	98
18) Methyl Acetate	4.31	43	1167	0.224	ug/l #	72
20) Methylene Chloride	4.53	84	57480	12.042	ug/l	95
25) 2-Butanone	6.82	43	16594	5.843	ug/l	97
30) Chloroform	7.35	83	3363	0.384	ug/l #	76
31) Cyclohexane	7.64	56	10505	1.251	ug/l #	25
36) 1,1-Dichloropropene	7.65	75	36403	5.645	ug/l #	51
37) Ethyl Acetate	6.82	43	16594	3.035	ug/l #	71
38) Carbon Tetrachloride	7.65	117	42229	7.255	ug/l #	15
48) Methyl methacrylate	9.17	41	5608	1.198	ug/l #	29
51) 4-Methyl-2-Pentanone	9.98	43	5339	1.011	ug/l	99
59) 2-Hexanone	10.72	43	85550	22.249	ug/l #	26
60) Dibromochloromethane	10.63	129	1526	Below Cal	#	11
64) Tetrachloroethene	10.63	164	2000	0.476	ug/l #	74
71) Bromoform	12.39	173	249	0.775	ug/l #	29
74) N-amyl acetate	12.03	43	5898	0.834	ug/l #	48
76) 1,2,3-Trichloropropane	12.41	75	170257	38.755	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4671	0.314	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.41	75	170257	117.705	ug/l #	7
84) 1,2,4-Trimethylbenzene	13.05	105	7709	0.517	ug/l	86
90) Hexachloroethane	13.90	117	755	0.345	ug/l #	11
95) Naphthalene	15.13	128	114661	9.734	ug/l	100
96) 1,2,3-Trichlorobenzene	15.30	180	73	Below Cal	#	1

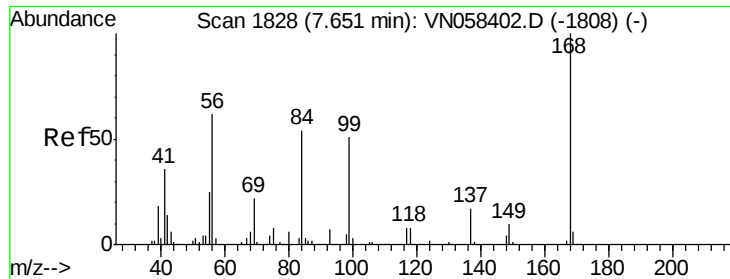
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

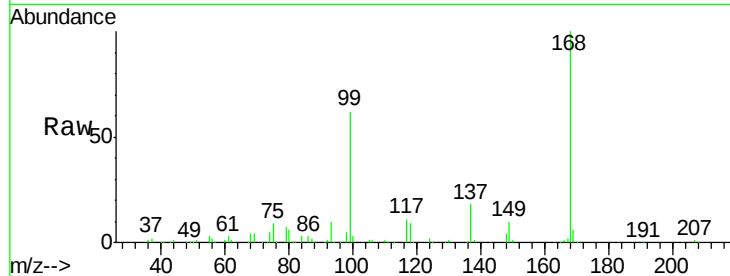
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 415216

Ion Ratio Lower Upper

168 100

99 62.2 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

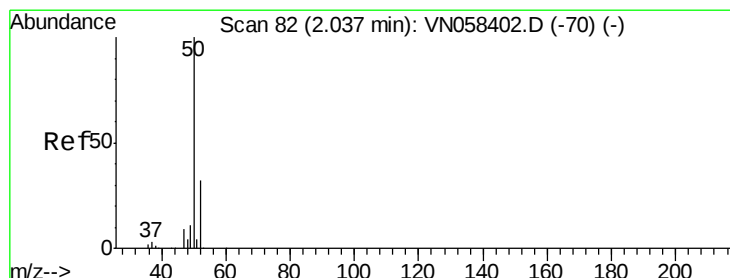
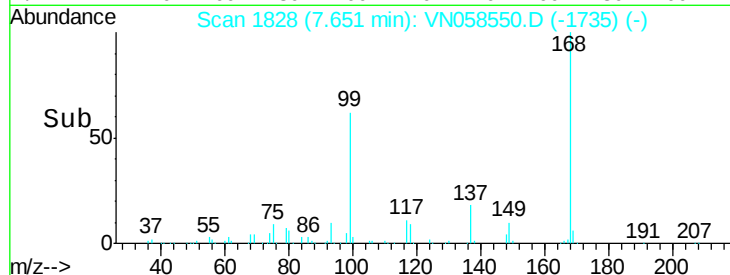
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.351 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058550.D

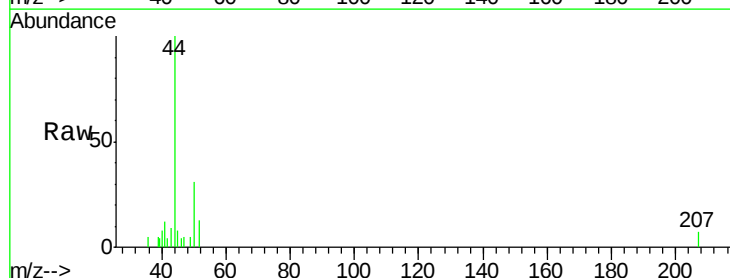
Acq: 4 Oct 2019 18:44

Tgt Ion: 50 Resp: 1755

Ion Ratio Lower Upper

50 100

52 40.9 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

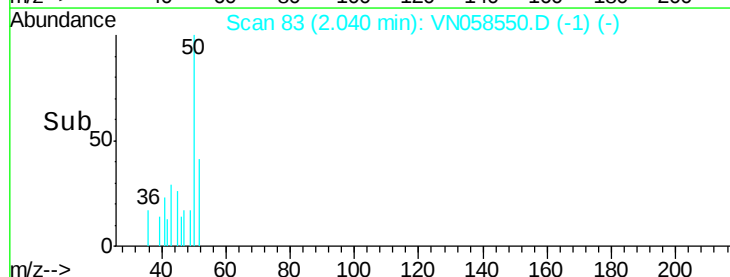
2.04

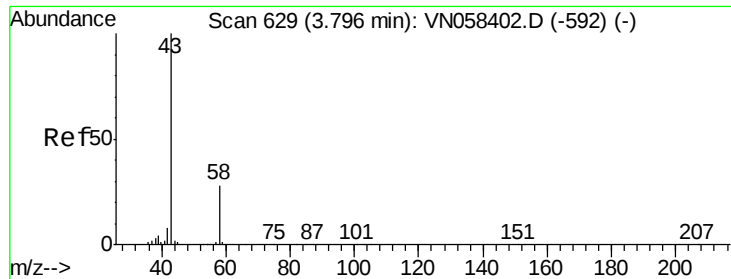
1000

500

0

Time-->

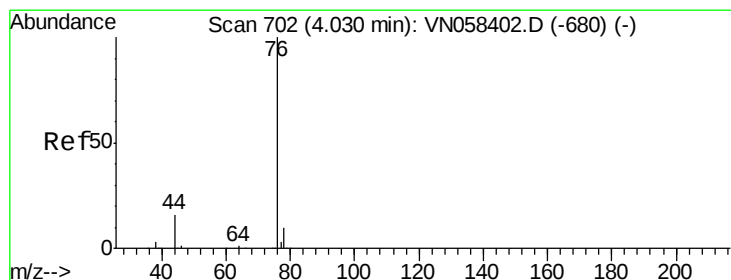
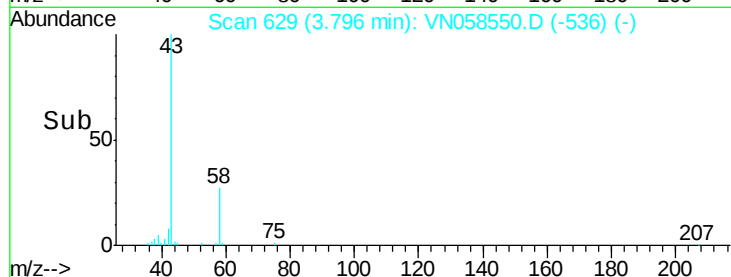
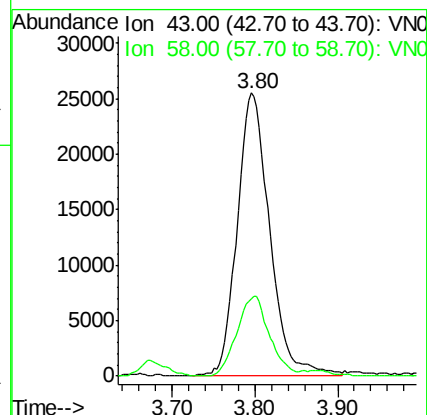
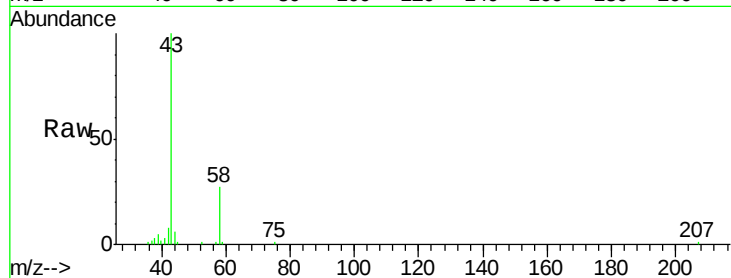




#16
Acetone
Concen: 33.802 ug/l
RT: 3.80 min Scan# 629
Delta R.T. -0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

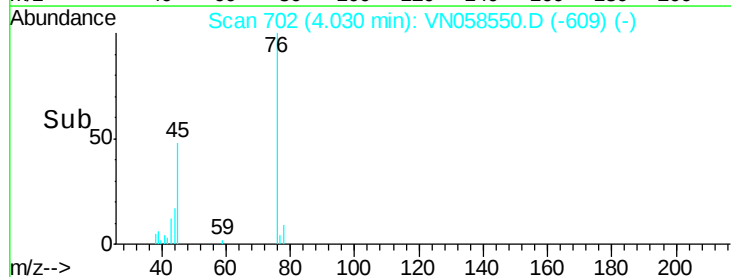
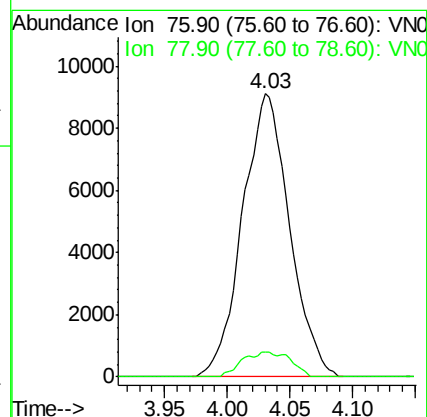
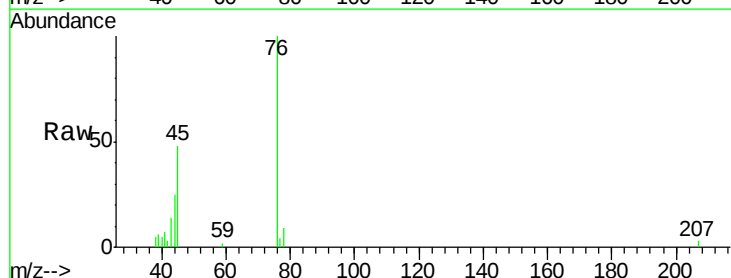
Instrument :
MSVOA_N
ClientSampleId :

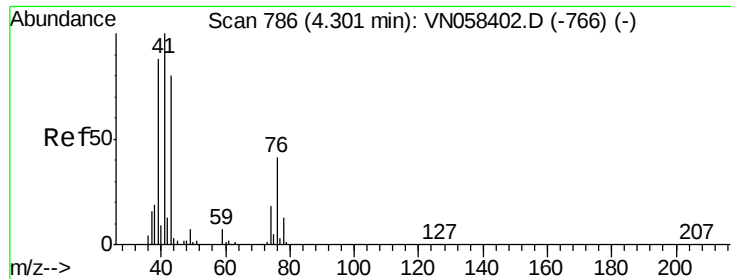
Tot Ion: 43 Resp: 69916
Ion Ratio Lower Upper
43 100
58 27.2 22.4 33.6



#17
Carbon Disulfide
Concen: 2.303 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion: 76 Resp: 23781
Ion Ratio Lower Upper
76 100
78 8.9 7.7 11.5





#18

Methyl Acetate

Concen: 0.224 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :

MSVOA_N

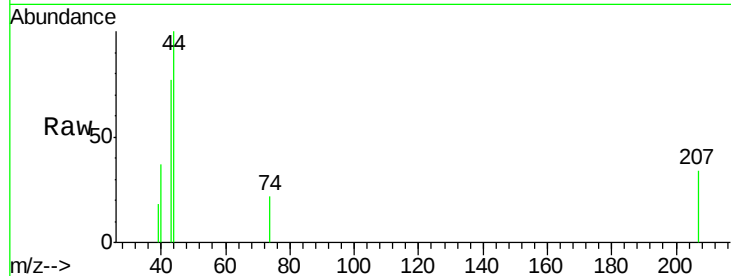
ClientSampled :

Tot Ion: 43 Resp: 1167

Ion Ratio Lower Upper

43 100

74 9.1 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.31

800

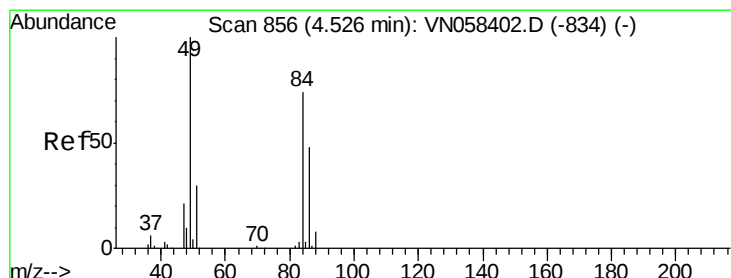
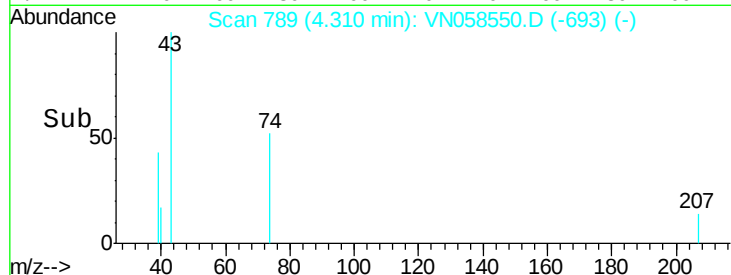
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: 12.042 ug/l

RT: 4.53 min Scan# 856

Delta R.T. -0.00 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Tgt Ion: 84 Resp: 57480

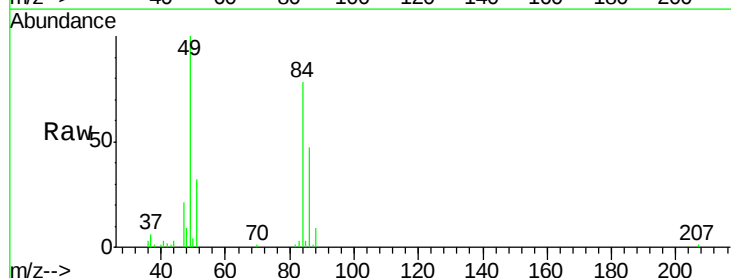
Ion Ratio Lower Upper

84 100

49 128.4 107.9 161.9

51 41.0 32.8 49.2

86 59.8 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

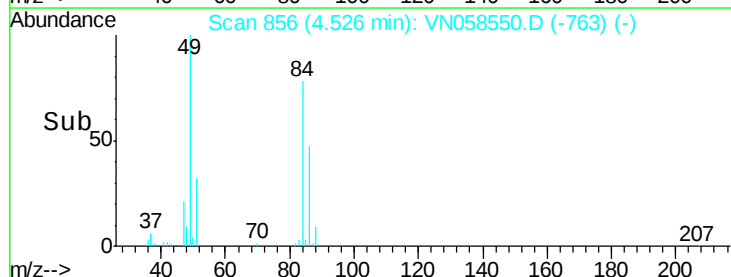
30000

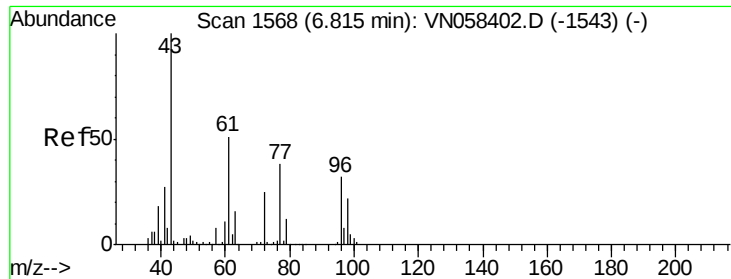
20000

10000

0

Time-->

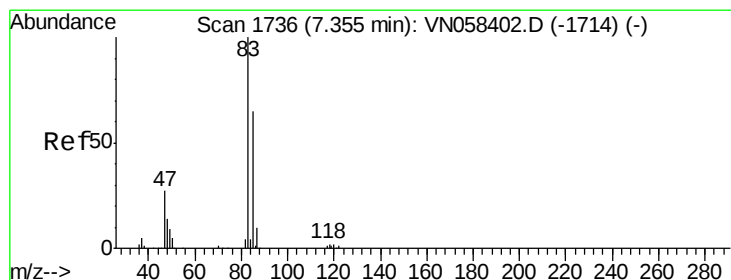
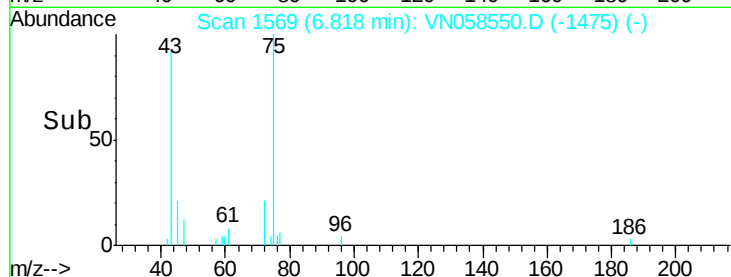
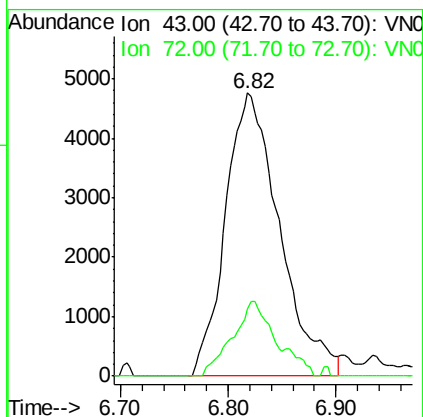
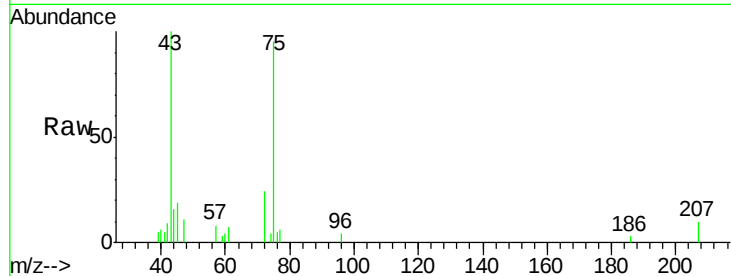




#25
2-Butanone
Concen: 5.843 ug/l
RT: 6.82 min Scan# 1569
Delta R.T. 0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

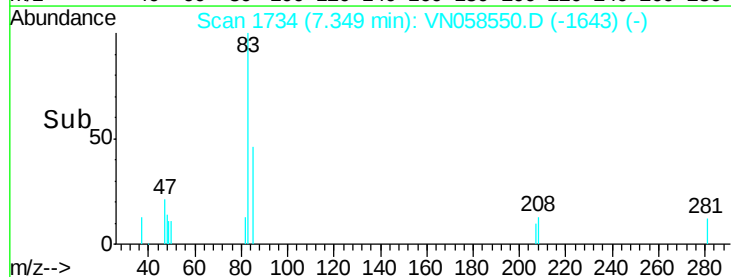
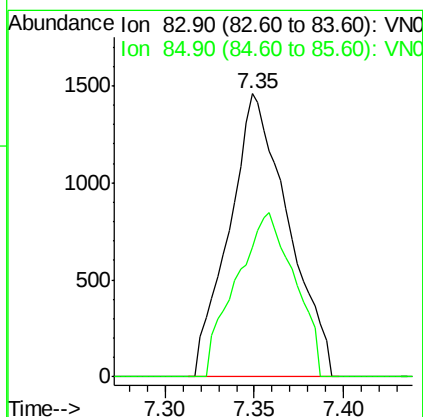
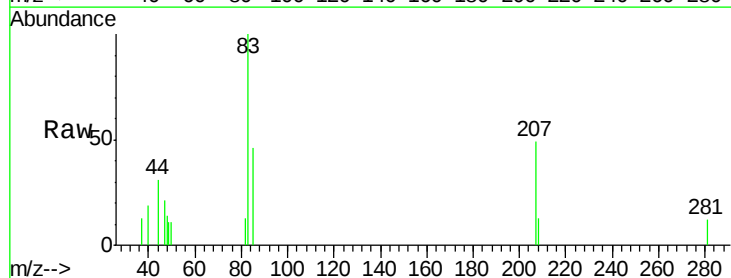
Instrument :
MSVOA_N
ClientSampled :

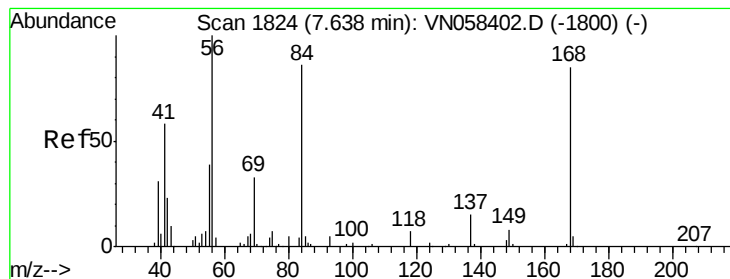
Tot Ion: 43 Resp: 16594
Ion Ratio Lower Upper
43 100
72 23.7 20.2 30.4



#30
Chloroform
Concen: 0.384 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. -0.01 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion: 83 Resp: 3363
Ion Ratio Lower Upper
83 100
85 45.7 52.0 78.0#





#31

Cyclohexane

Concen: 1.251 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :
MSVOA_N
ClientSampleId :

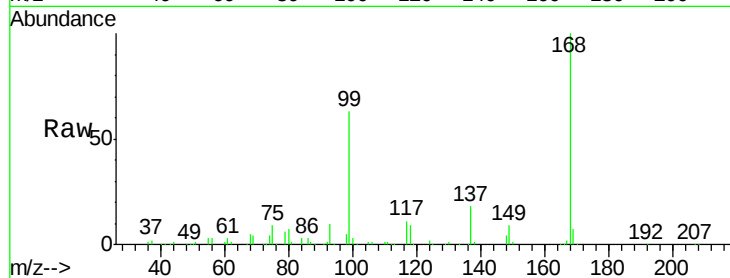
Tot Ion: 56 Resp: 10505

Ion Ratio Lower Upper

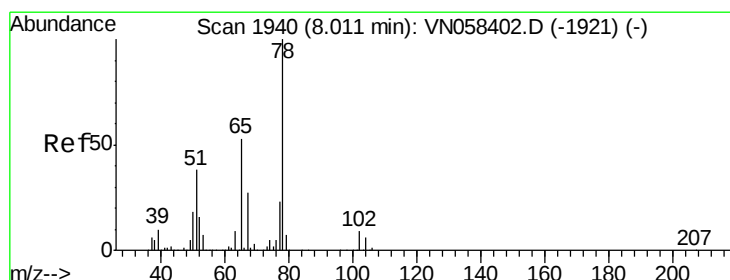
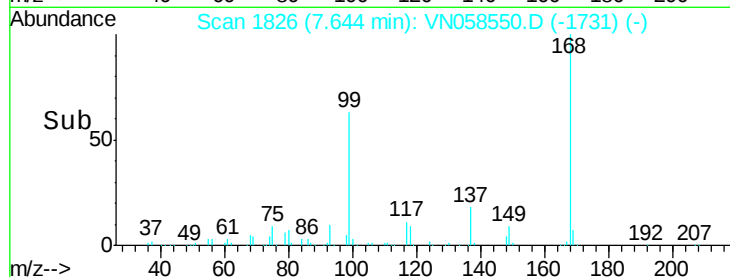
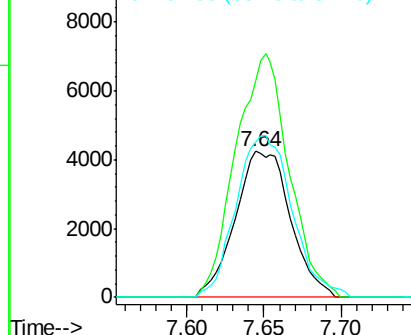
56 100

69 148.3 26.2 39.4#

84 106.5 67.6 101.4#



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: 48.634 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058550.D

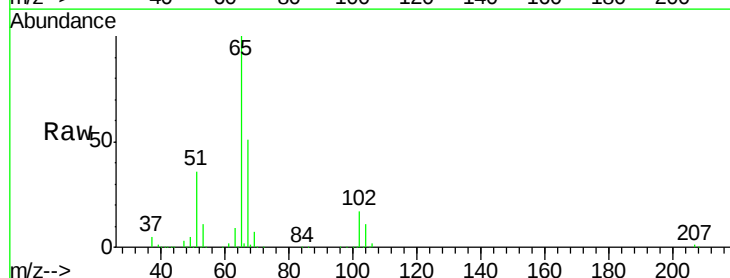
Acq: 4 Oct 2019 18:44

Tgt Ion: 65 Resp: 295099

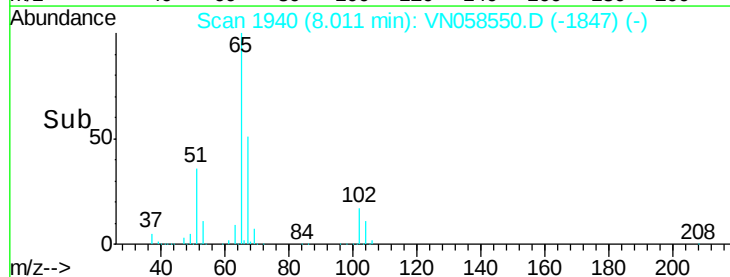
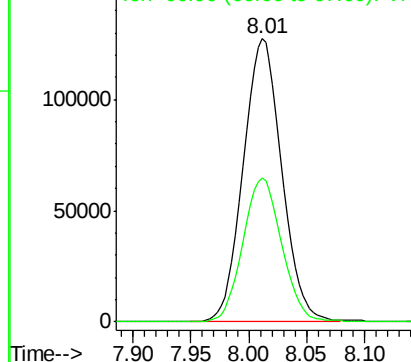
Ion Ratio Lower Upper

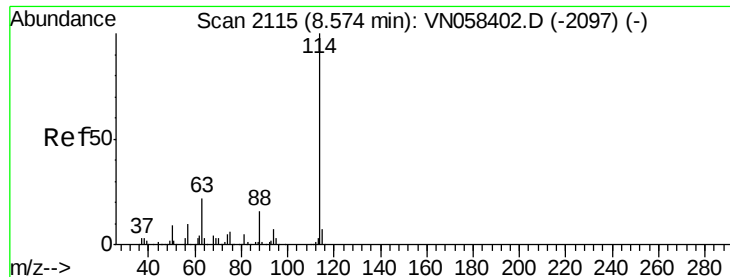
65 100

67 51.3 0.0 102.4



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

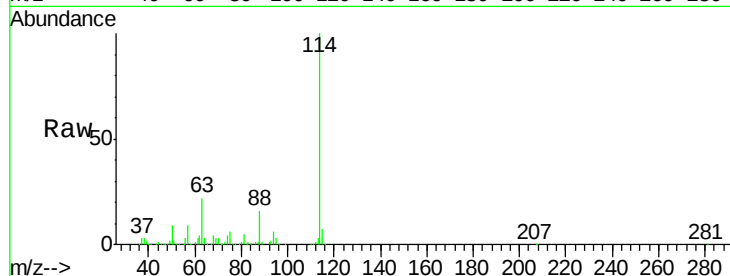




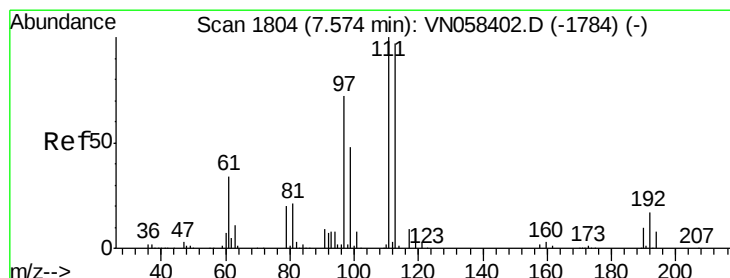
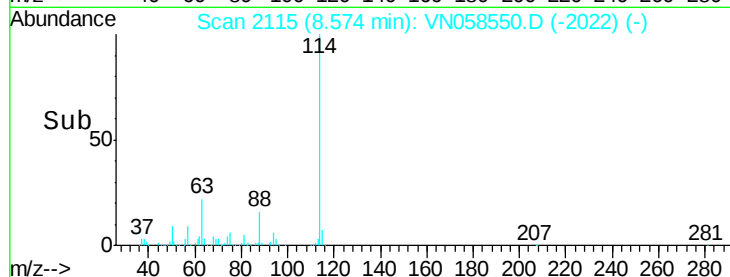
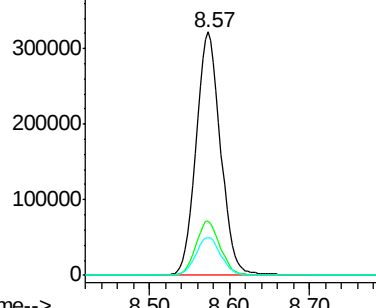
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2115
Delta R.T. -0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 674363
Ion Ratio Lower Upper
114 100
63 22.4 0.0 45.0
88 15.6 0.0 32.2

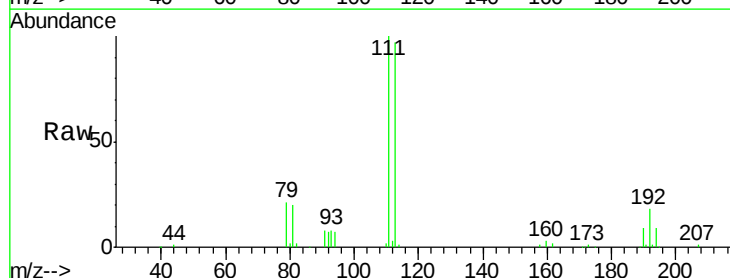


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

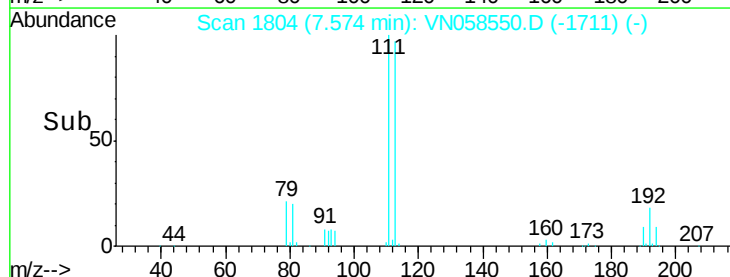
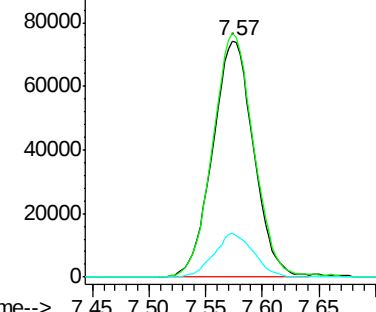


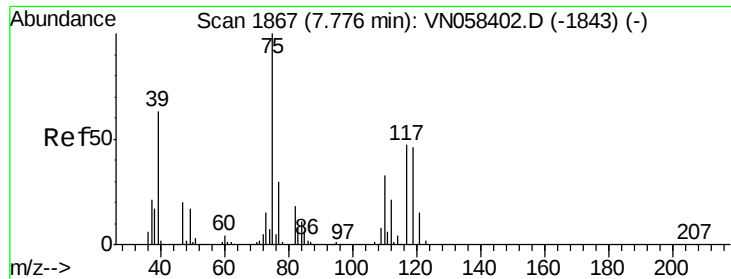
#35
Dibromofluoromethane
Concen: 45.275 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. -0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion:113 Resp: 187127
Ion Ratio Lower Upper
113 100
111 102.7 83.4 125.2
192 17.9 14.9 22.3



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

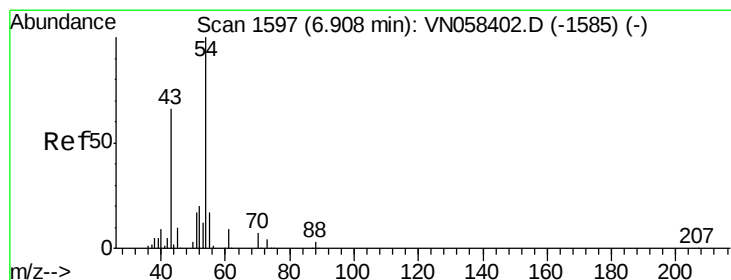
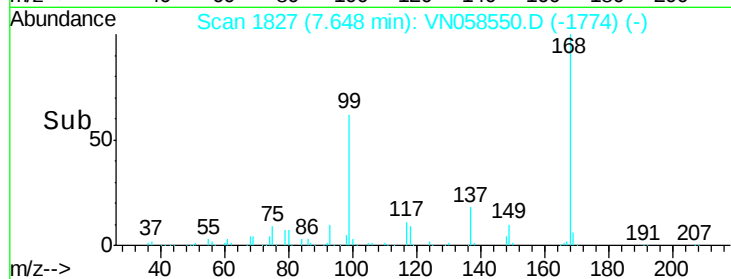
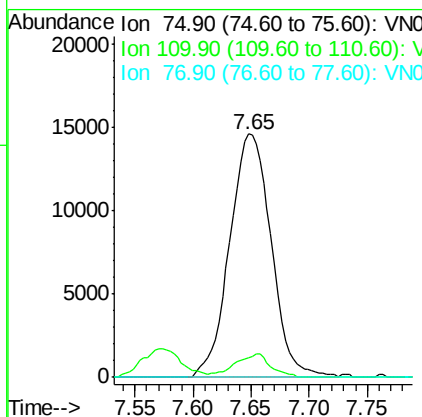
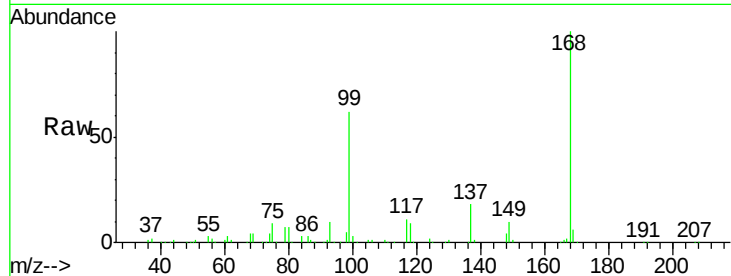




#36
 1,1-Dichloropropene
 Concen: 5.645 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058550.D
 Acq: 4 Oct 2019 18:44

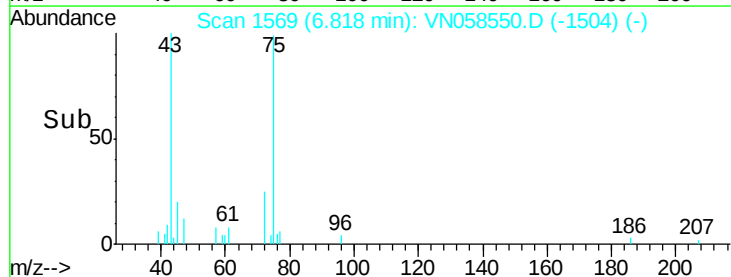
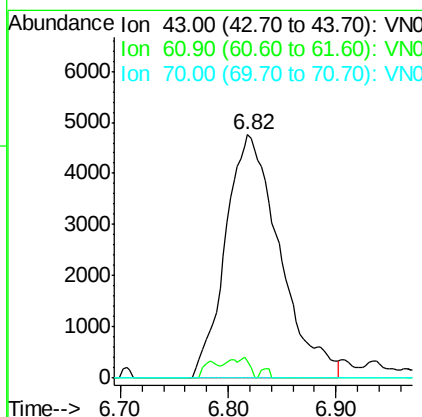
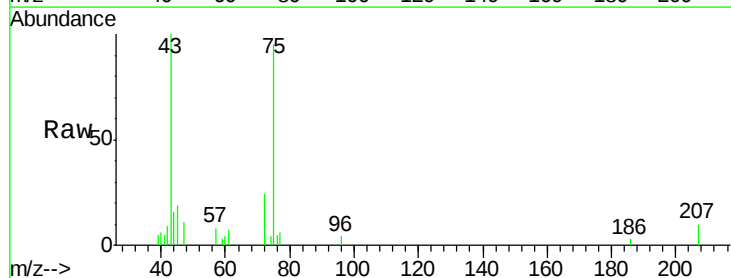
Instrument :
 MSVOA_N
 ClientSampleId :

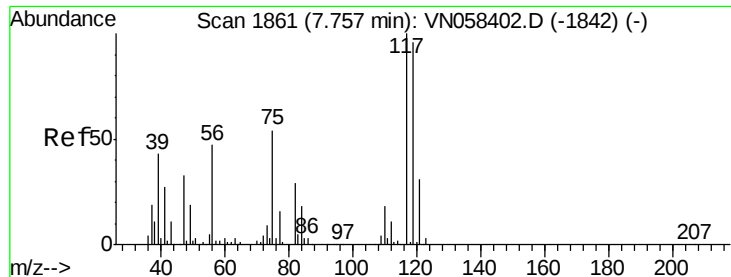
Tot Ion	75	Resp	36403
Ion Ratio	100	Lower	Upper
75	100		
110	8.5	16.4	49.2#
77	0.0	24.3	36.5#



#37
 Ethyl Acetate
 Concen: 3.035 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. -0.09 min
 Lab File: VN058550.D
 Acq: 4 Oct 2019 18:44

Tgt Ion	43	Resp	16594
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
43	100		
61	0.6	10.5	15.7#
70	0.0	7.8	11.6#





#38

Carbon Tetrachloride

Concen: 7.255 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :

MSVOA_N

ClientSampled :

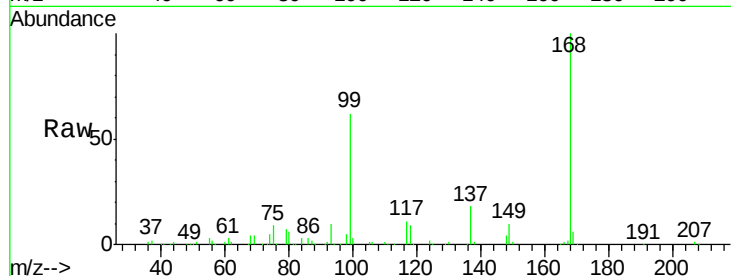
Tot Ion:117 Resp: 42229

Ion Ratio Lower Upper

117 100

119 4.1 76.6 115.0#

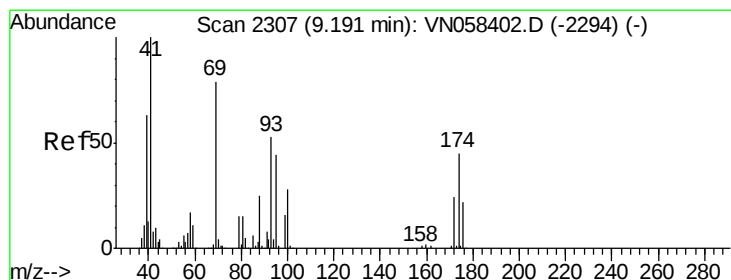
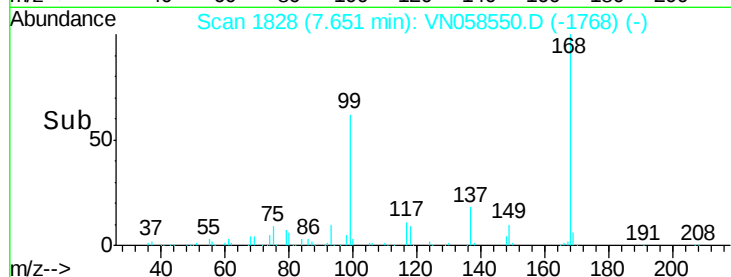
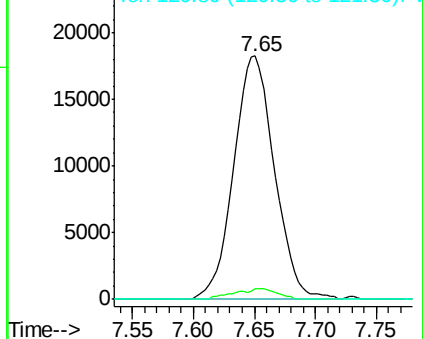
121 0.0 24.7 37.1#



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



#48

Methyl methacrylate

Concen: 1.198 ug/l

RT: 9.17 min Scan# 2301

Delta R.T. -0.02 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

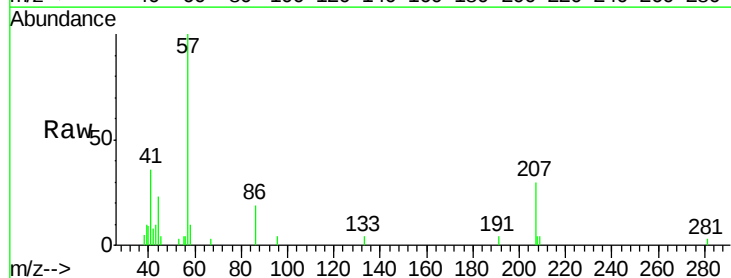
Tgt Ion: 41 Resp: 5608

Ion Ratio Lower Upper

41 100

69 0.0 64.7 97.1#

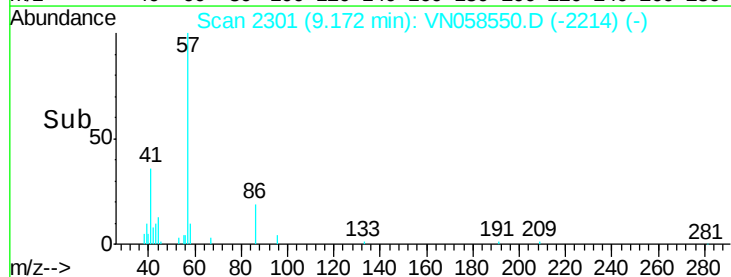
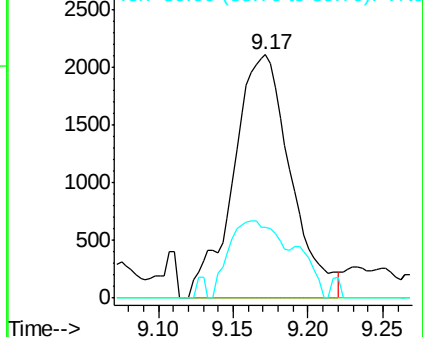
39 28.6 52.9 79.3#

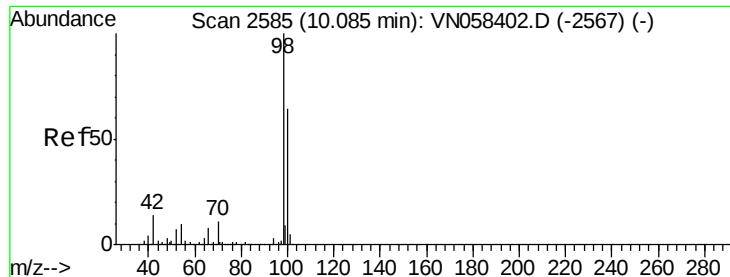


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 52.712 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :

MSVOA_N

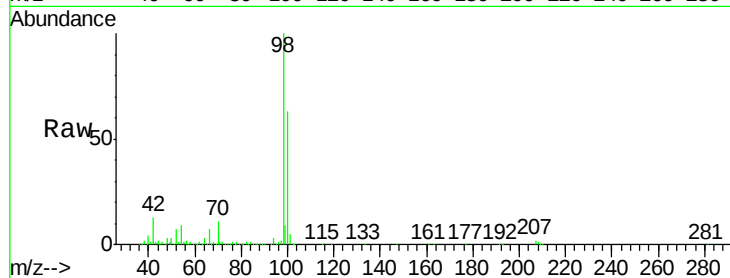
ClientSampled :

Tot Ion: 98 Resp: 853465

Ion Ratio Lower Upper

98 100

100 63.8 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN058402.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN058402.D (-2567) (-)

10.08

500000

400000

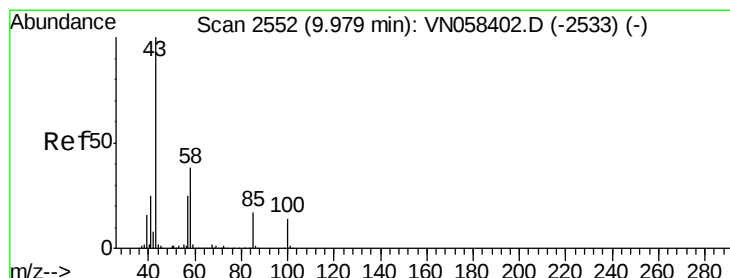
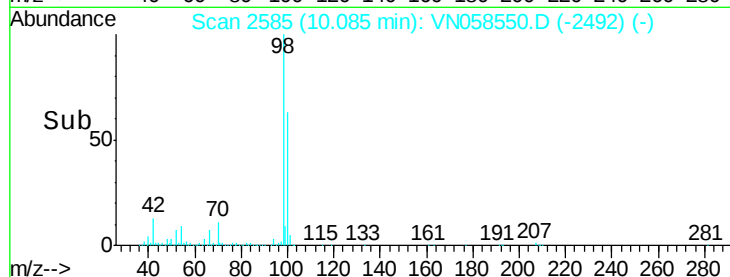
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.011 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. -0.00 min

Lab File: VN058550.D

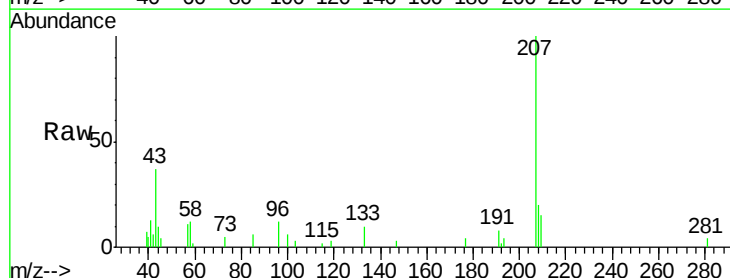
Acq: 4 Oct 2019 18:44

Tgt Ion: 43 Resp: 5339

Ion Ratio Lower Upper

43 100

58 38.2 30.2 45.2



Abundance Ion 43.00 (42.70 to 43.70): VN058402.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN058402.D (-2533) (-)

9.98

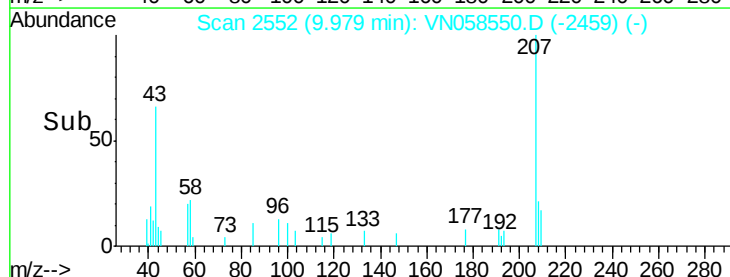
3000

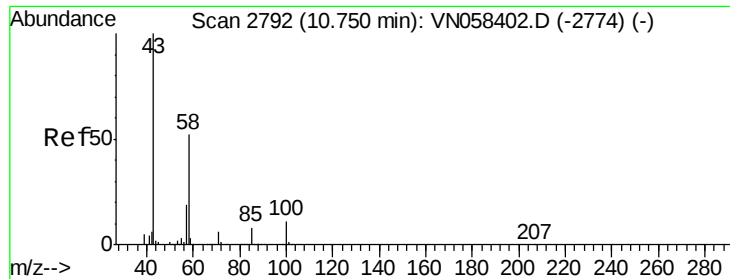
2000

1000

0

Time-->

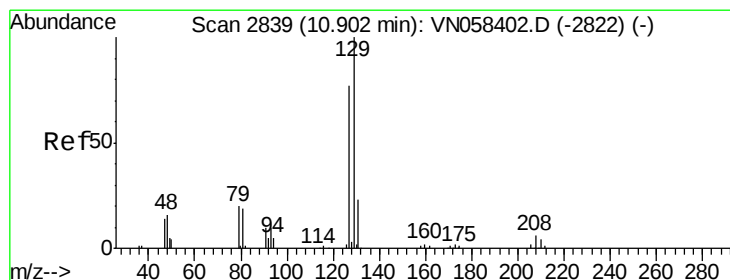
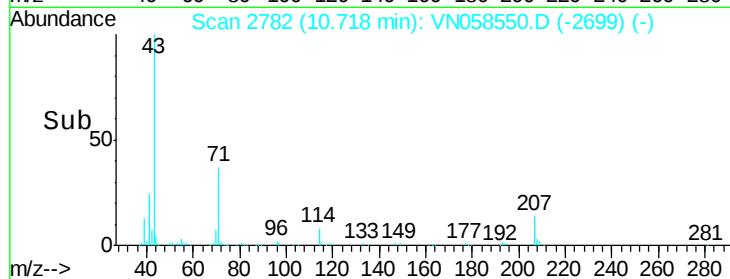
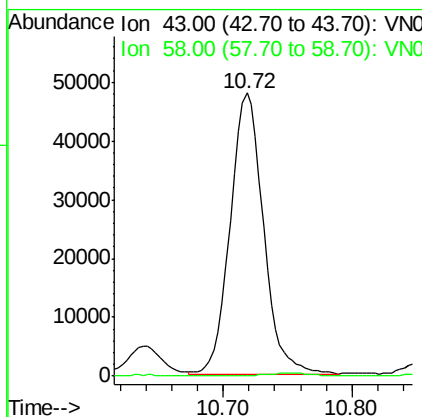
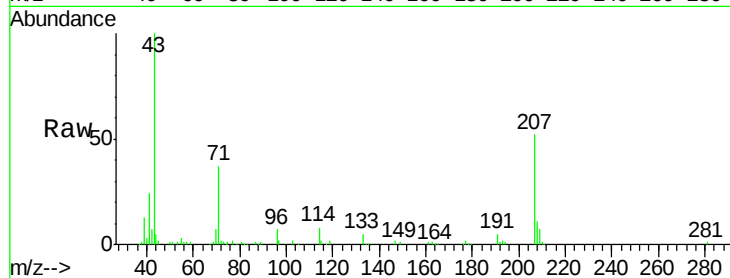




#59
2-Hexanone
Concen: 22.249 ug/l
RT: 10.72 min Scan# 2782
Delta R.T. -0.03 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

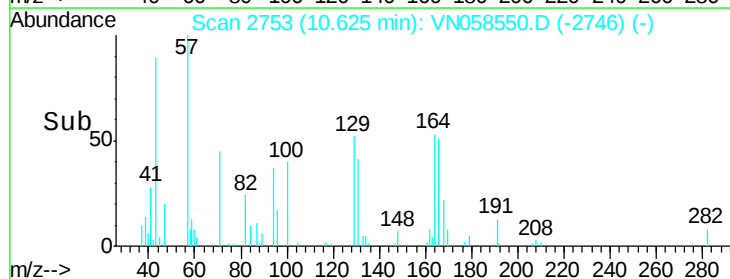
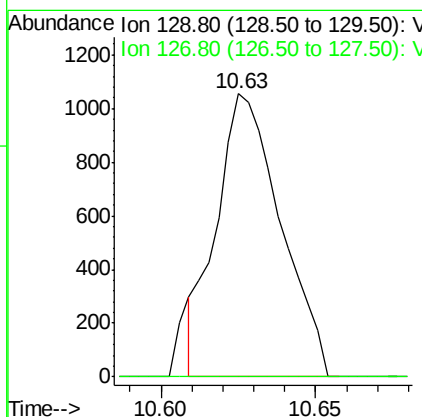
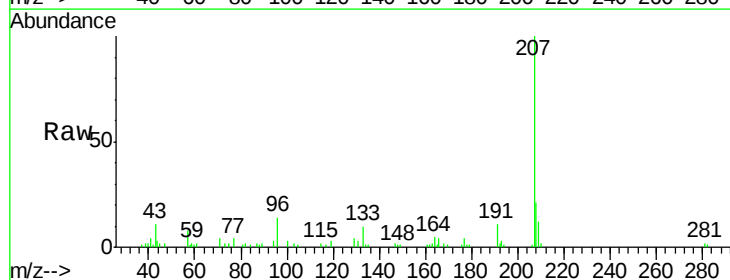
Instrument :
MSVOA_N
ClientSampleId :

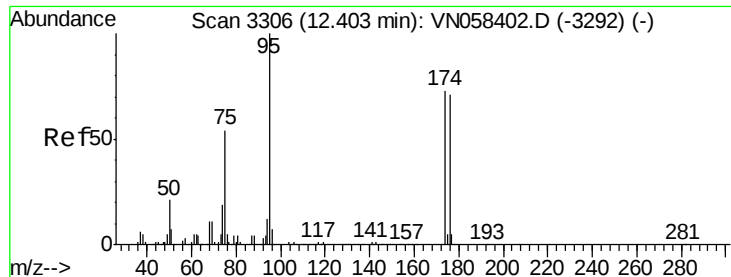
Tot Ion: 43 Resp: 85550
Ion Ratio Lower Upper
43 100
58 0.0 25.8 77.3#



#60
Dibromochloromethane
Concen: Below Cal
RT: 10.63 min Scan# 2753
Delta R.T. -0.28 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion: 129 Resp: 1526
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#

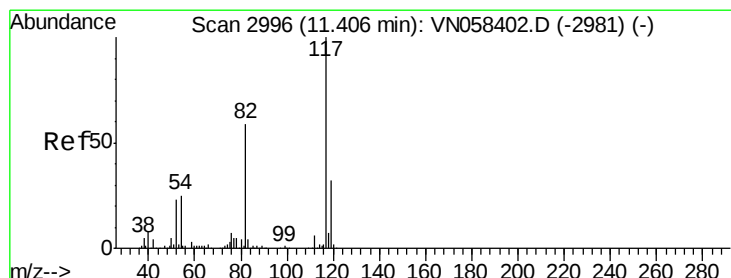
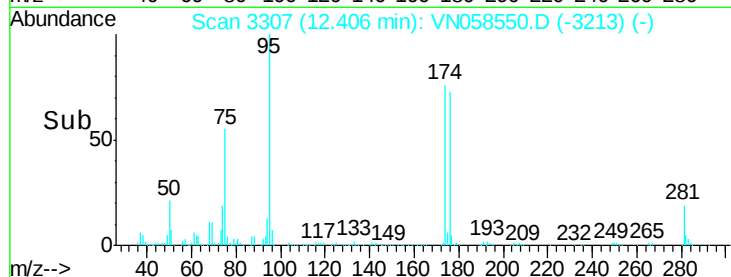
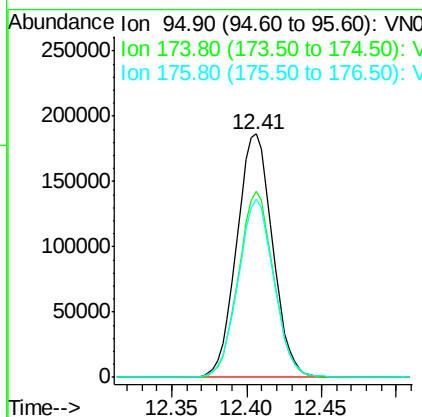
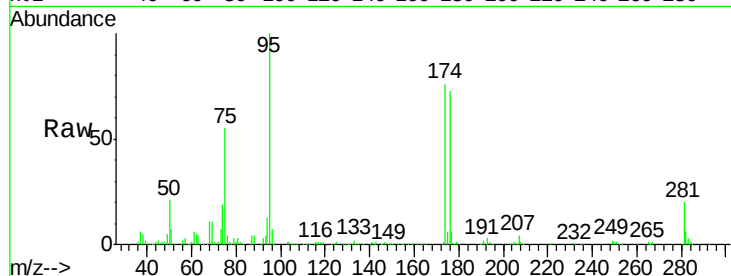




#62
4-Bromofluorobenzene
Concen: 53.222 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

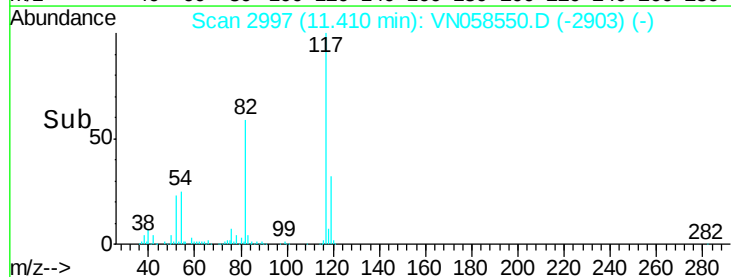
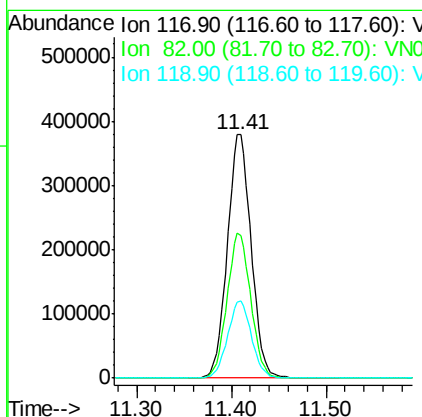
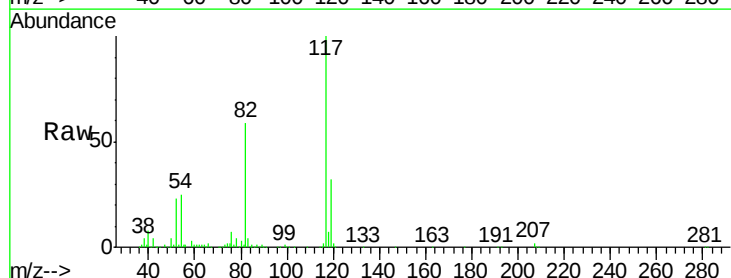
Instrument :
MSVOA_N
ClientSampleId :

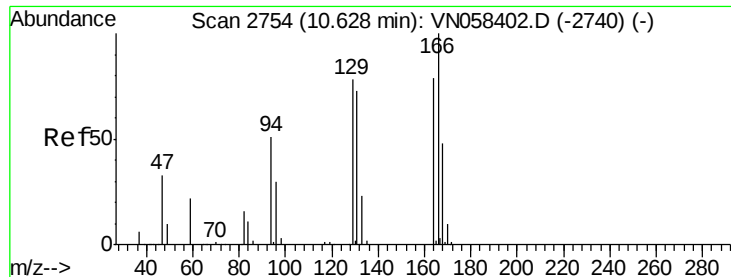
Tot Ion: 95 Resp: 311583
Ion Ratio Lower Upper
95 100
174 74.8 0.0 150.6
176 72.8 0.0 146.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion: 117 Resp: 661741
Ion Ratio Lower Upper
117 100
82 58.8 47.4 71.0
119 31.6 25.5 38.3





#64

Tetrachloroethene

Concen: 0.476 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 2000

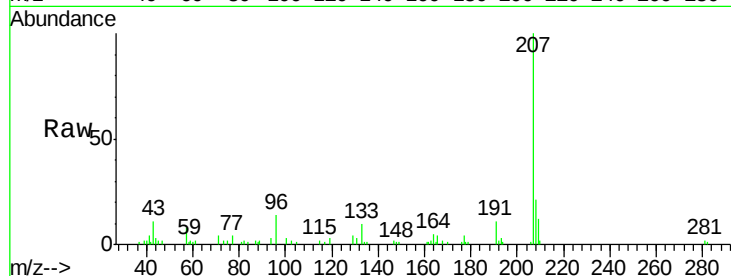
Ion Ratio Lower Upper

164 100

166 85.0 101.1 151.7#

129 86.6 79.2 118.8

131 68.5 74.1 111.1#

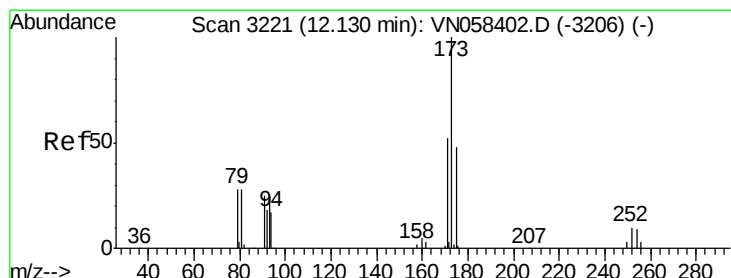
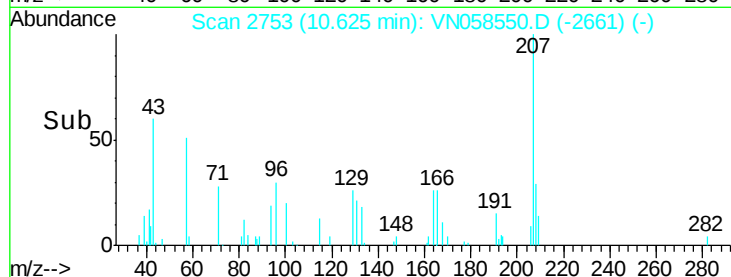
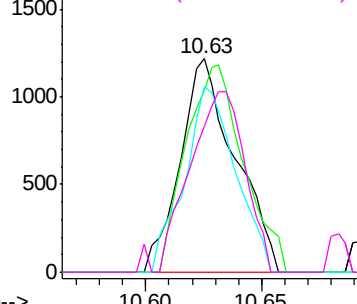


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.775 ug/l

RT: 12.39 min Scan# 3302

Delta R.T. 0.26 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

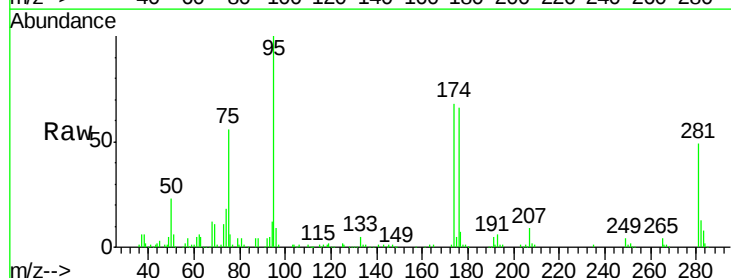
Tgt Ion:173 Resp: 249

Ion Ratio Lower Upper

173 100

175 0.0 24.3 73.0#

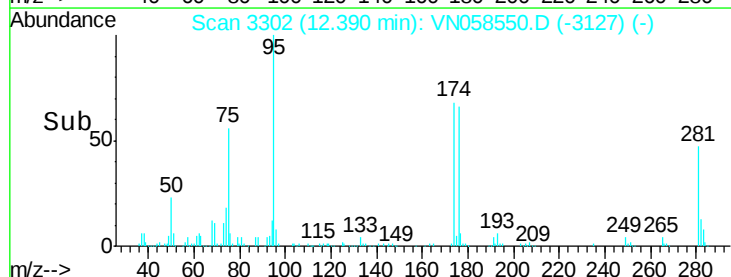
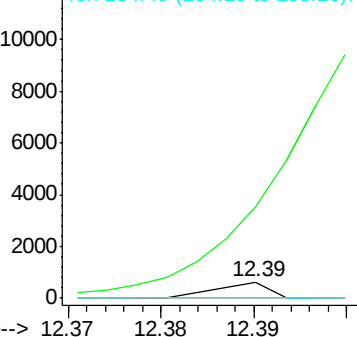
254 0.0 0.1 0.1#

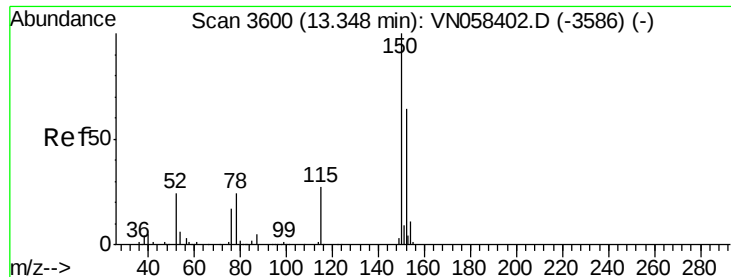


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :

MSVOA_N

ClientSampleId :

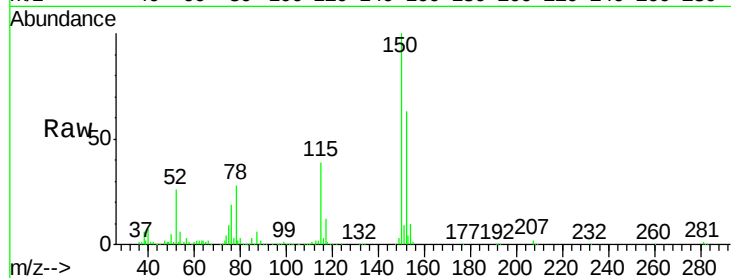
Tot Ion:152 Resp: 240520

Ion Ratio Lower Upper

152 100

115 61.8 30.0 90.0

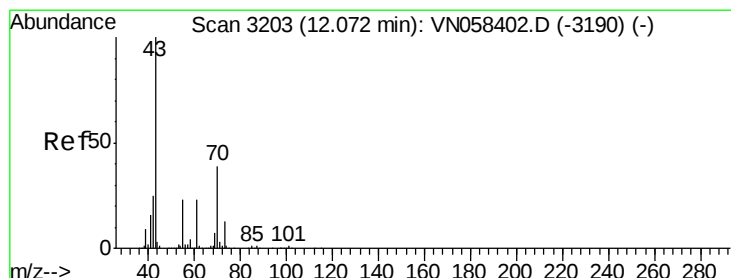
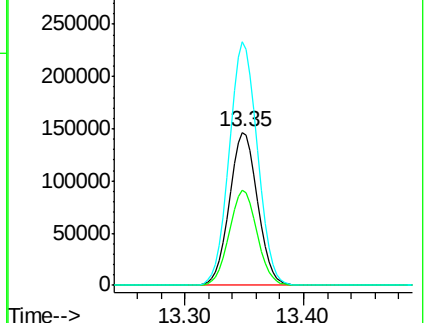
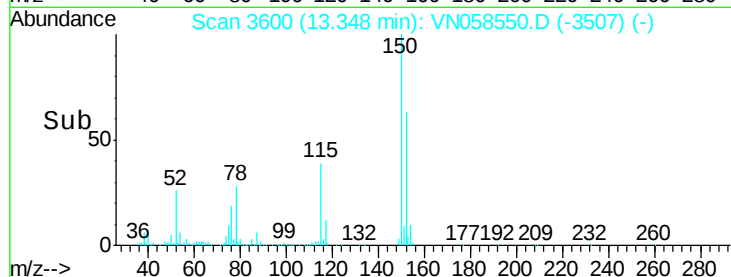
150 159.0 0.0 348.2



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



#74

N-ethyl acetate

Concen: 0.834 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Tgt Ion: 43 Resp: 5898

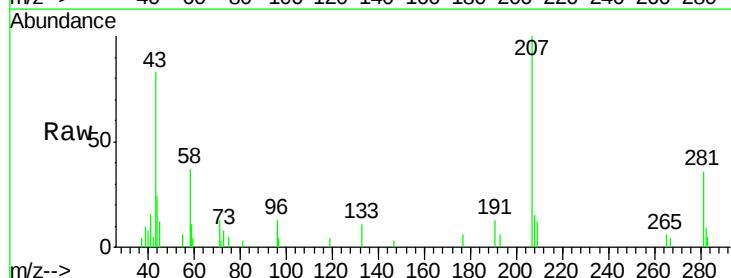
Ion Ratio Lower Upper

43 100

70 0.0 31.4 47.2#

55 6.4 18.2 27.4#

61 0.0 18.3 27.5#

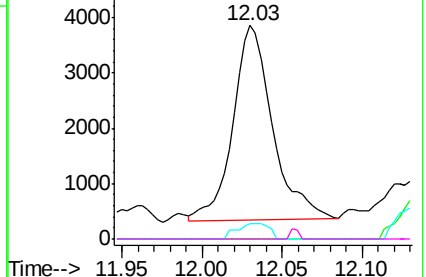
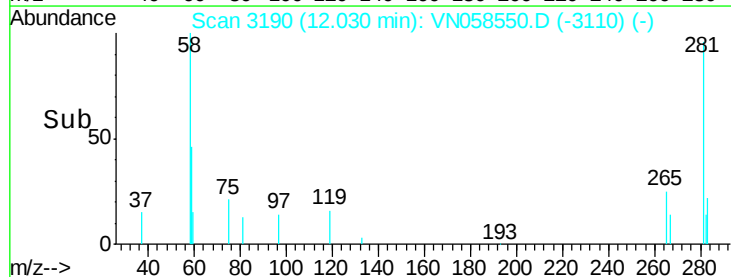


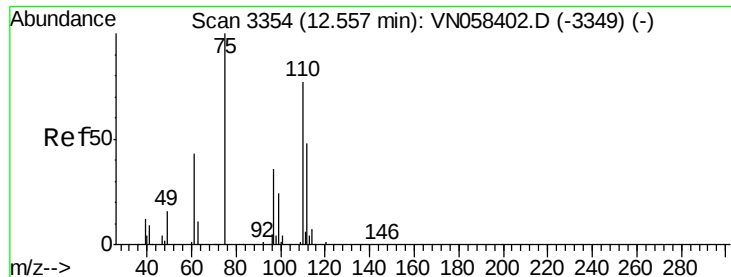
Abundance Ion 43.00 (42.70 to 43.70): VNO

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



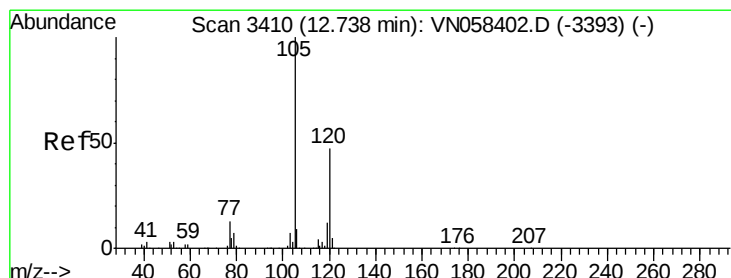
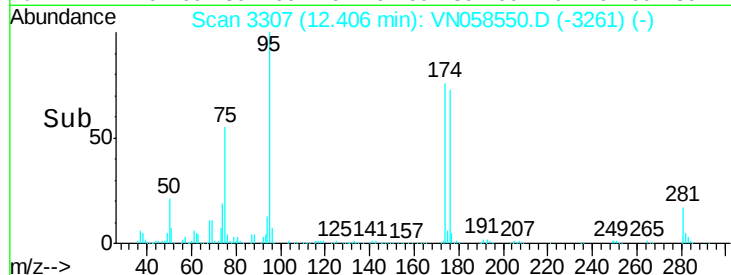
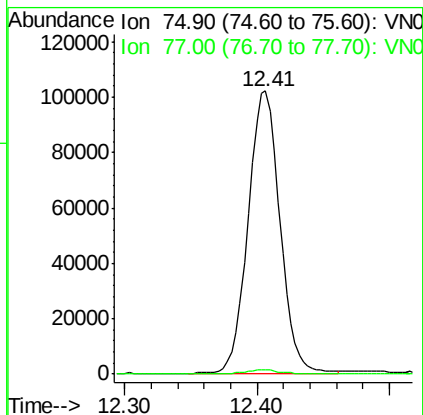
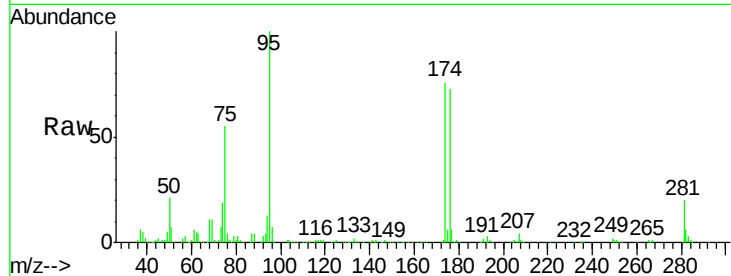


#76

1,2,3-Trichloropropane
Concen: 38.755 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. -0.15 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Instrument :
MSVOA_N
ClientSampleId :

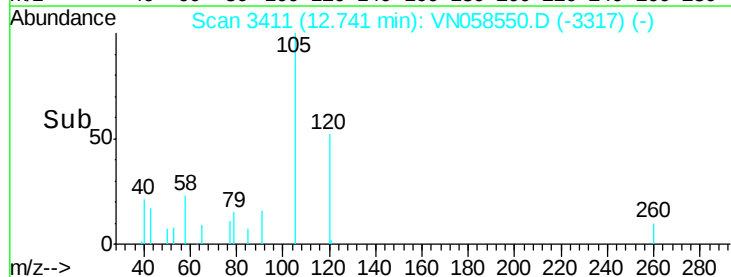
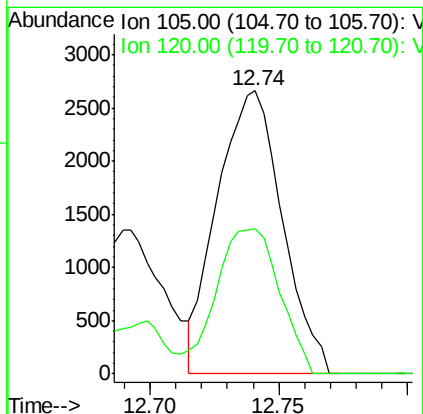
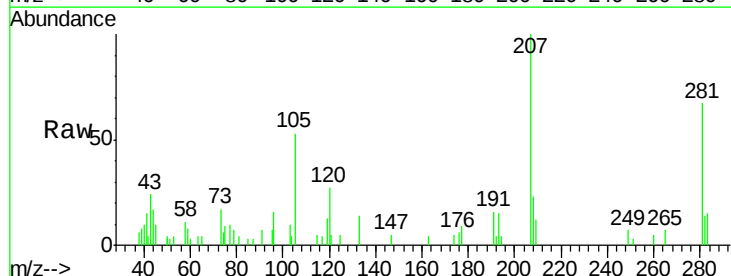
Tot Ion: 75 Resp: 170257
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#

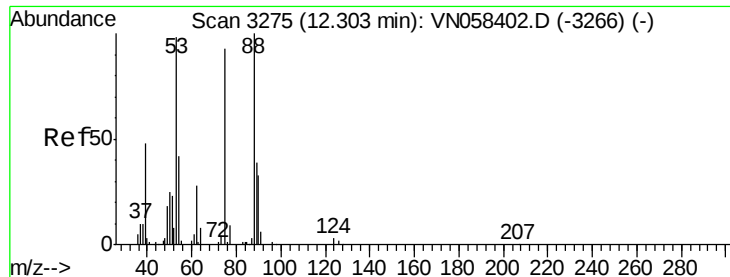


#80

1,3,5-Trimethylbenzene
Concen: 0.314 ug/l
RT: 12.74 min Scan# 3411
Delta R.T. 0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion: 105 Resp: 4671
Ion Ratio Lower Upper
105 100
120 50.2 23.5 70.6





#81

trans-1,4-Dichloro-2-butene

Concen: 117.705 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058550.D

Acq: 4 Oct 2019 18:44

Instrument :

MSVOA_N

ClientSampleId :

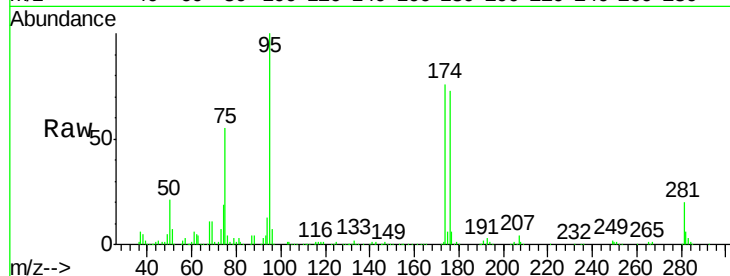
Tot Ion: 75 Resp: 170257

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

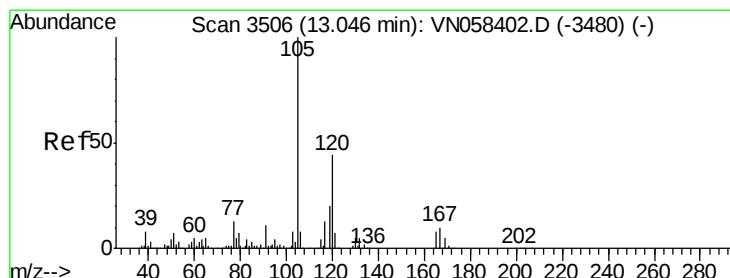
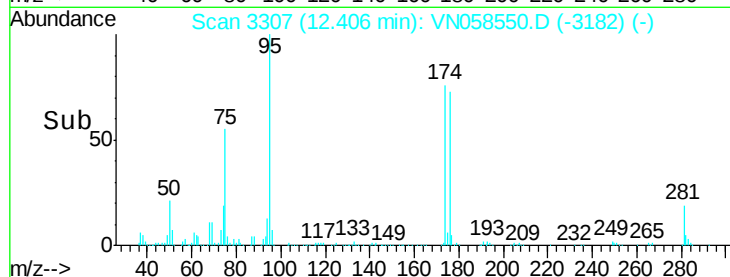
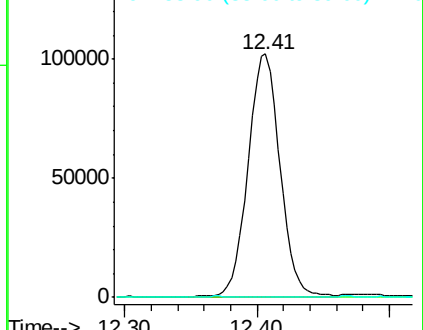
89 0.0 35.0 52.4#



Abundance Ion 74.90 (74.60 to 75.60): VN058550.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN058550.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN058550.D (-3307) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.517 ug/l

RT: 13.05 min Scan# 3506

Delta R.T. -0.00 min

Lab File: VN058550.D

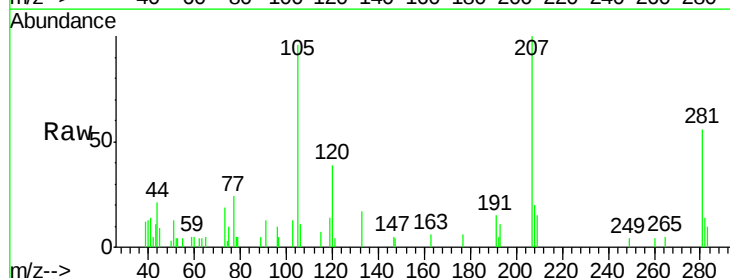
Acq: 4 Oct 2019 18:44

Tgt Ion:105 Resp: 7709

Ion Ratio Lower Upper

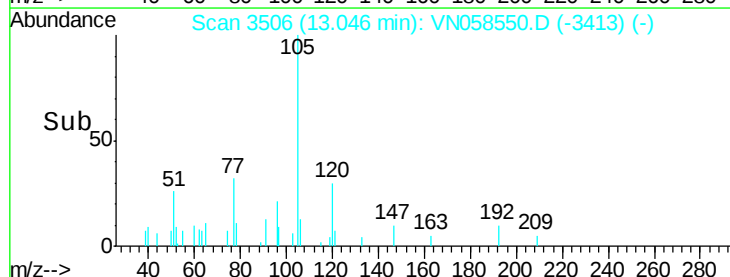
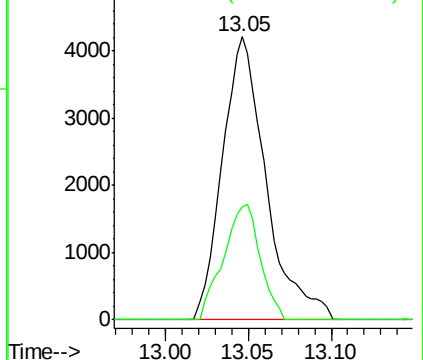
105 100

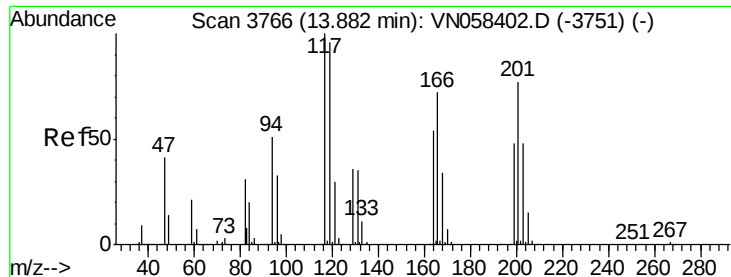
120 34.4 21.7 65.1



Abundance Ion 105.00 (104.70 to 105.70): VN058550.D (-3506) (-)

Ion 120.00 (119.70 to 120.70): VN058550.D (-3506) (-)

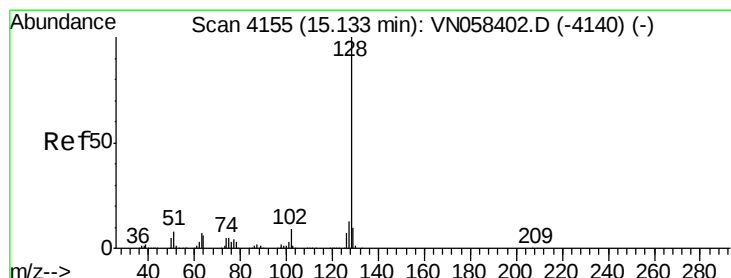
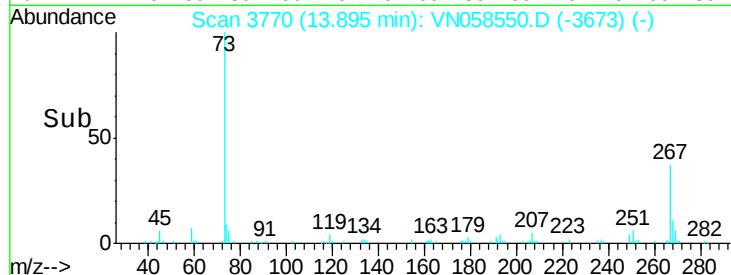
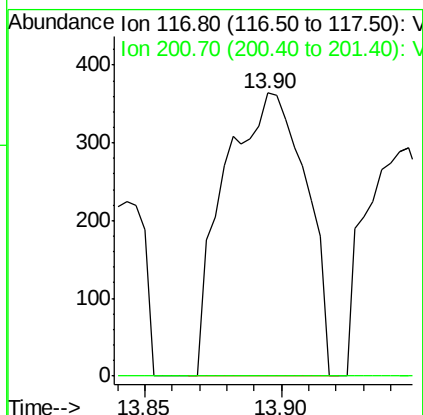
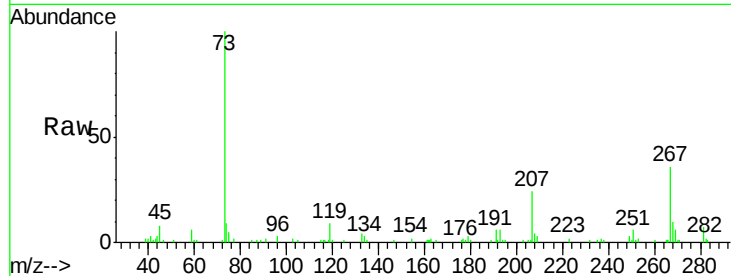




#90
Hexachloroethane
Concen: 0.345 ug/l
RT: 13.90 min Scan# 3770
Delta R.T. 0.01 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 755
Ion Ratio Lower Upper
117 100
201 0.0 38.6 116.0#



#95
Naphthalene
Concen: 9.734 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058550.D
Acq: 4 Oct 2019 18:44

Tgt Ion:128 Resp: 114661
Ion Ratio Lower Upper
128 100
127 12.7 10.2 15.4
129 10.1 8.3 12.5

