

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110119\
 Data File : VN059066.D
 Acq On : 1 Nov 2019 16:42
 Operator : JC/SP
 Sample : K5612-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 02 06:06:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 02 05:43:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	402949	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	621653	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	539553	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	197923	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	260737	48.86	ug/l	0.00
Spiked Amount			Recovery	=	97.72%	
35) Dibromofluoromethane	7.57	113	196952	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
50) Toluene-d8	10.08	98	755287	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	
62) 4-Bromofluorobenzene	12.40	95	241581	43.04	ug/l	0.00
Spiked Amount			Recovery	=	86.08%	

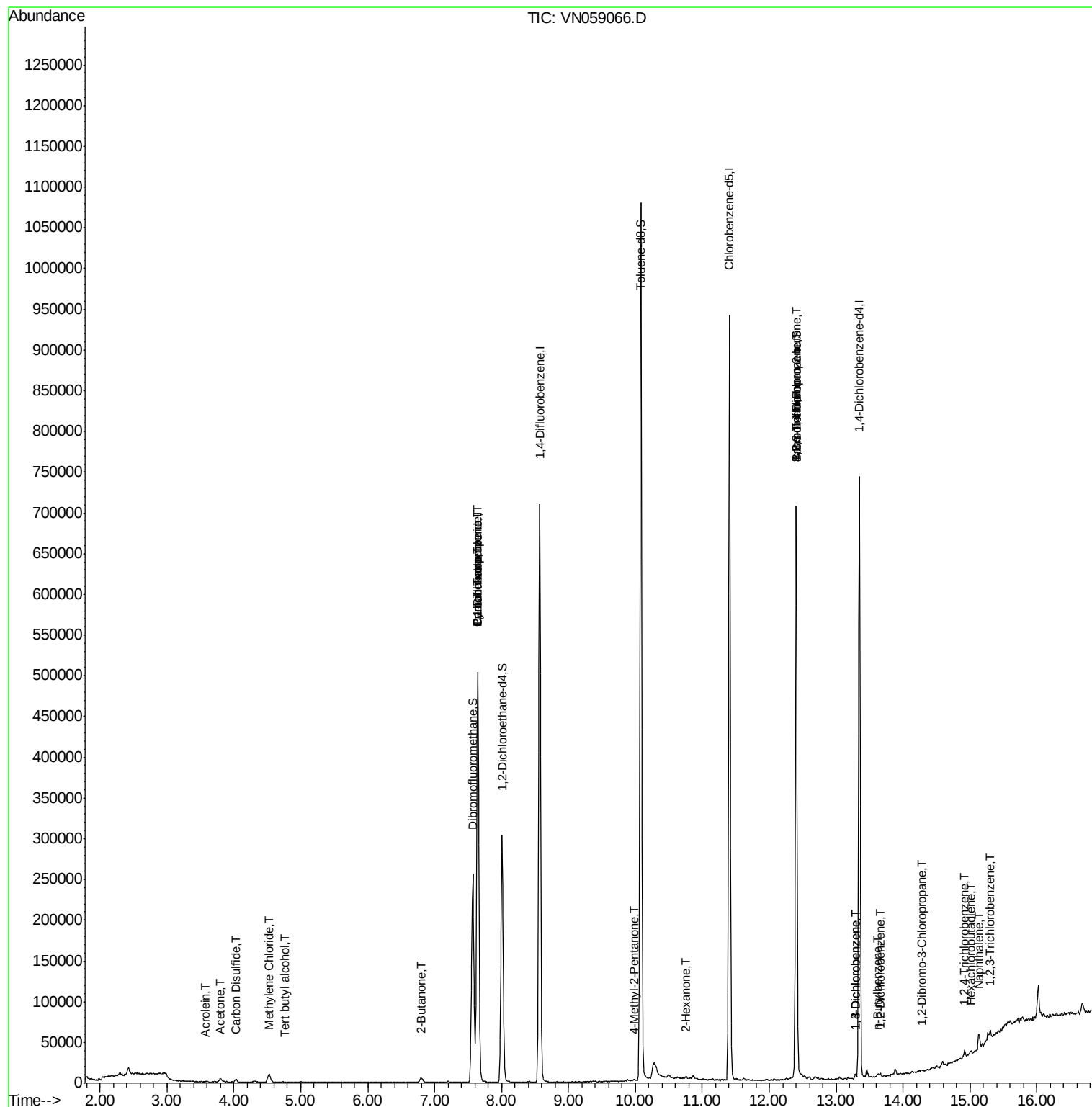
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.76	59	274	0.277	ug/l #	72
13) Acrolein	3.57	56	138	0.221	ug/l #	76
16) Acetone	3.80	43	7185	2.659	ug/l	96
17) Carbon Disulfide	4.03	76	6253	0.492	ug/l #	86
20) Methylene Chloride	4.53	84	7748	1.638	ug/l	95
25) 2-Butanone	6.82	43	810	0.225	ug/l #	88
31) Cyclohexane	7.64	56	8449	1.028	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32587	5.274	ug/l #	49
38) Carbon Tetrachloride	7.64	117	39561	6.570	ug/l #	17
51) 4-Methyl-2-Pentanone	9.98	43	1578	0.253	ug/l #	66
59) 2-Hexanone	10.76	43	1722	0.363	ug/l	85
71) Bromoform	12.40	173	1417	0.449	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	122701	26.198	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	122701	67.158	ug/l #	14
87) 1,3-Dichlorobenzene	13.29	146	1382	0.214	ug/l	95
88) 1,4-Dichlorobenzene	13.29	146	1382	0.216	ug/l	96
89) n-Butylbenzene	13.62	91	2213	0.204	ug/l	98
91) 1,2-Dichlorobenzene	13.66	146	2028	0.315	ug/l	93
92) 1,2-Dibromo-3-Chloropropan	14.27	75	652	0.582	ug/l #	4
93) 1,2,4-Trichlorobenzene	14.92	180	2336	0.673	ug/l	90
94) Hexachlorobutadiene	15.01	225	582	0.279	ug/l	70
95) Naphthalene	15.13	128	13378	4.148	ug/l	95
96) 1,2,3-Trichlorobenzene	15.30	180	3396	0.961	ug/l	95

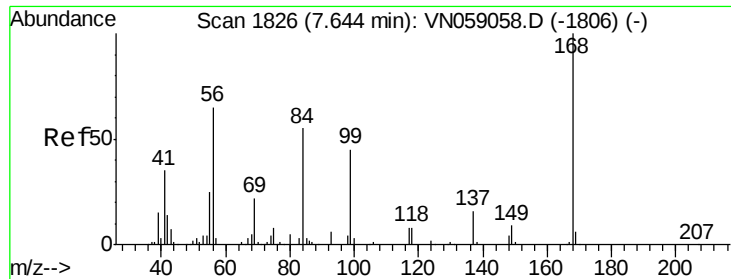
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN110119\
Data File : VN059066.D
Acq On : 1 Nov 2019 16:42
Operator : JC/SP
Sample : K5612-05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 20 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Nov 02 06:06:10 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N110119W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 02 05:43:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

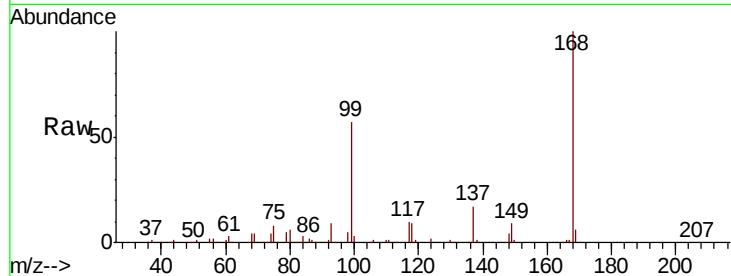
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 402949

Ion Ratio Lower Upper

168 100

99 57.4 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.64

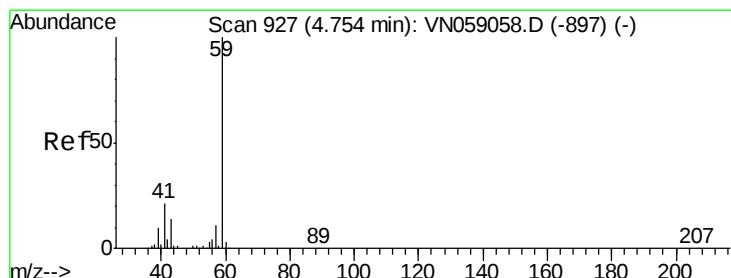
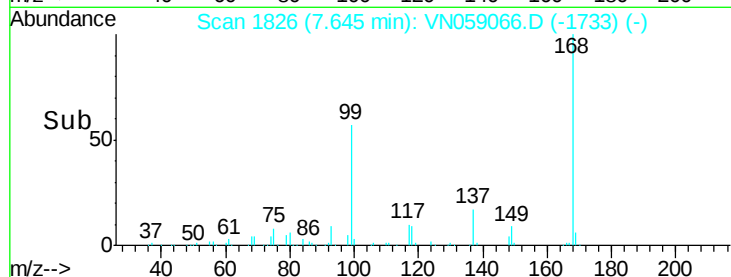
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.277 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN059066.D

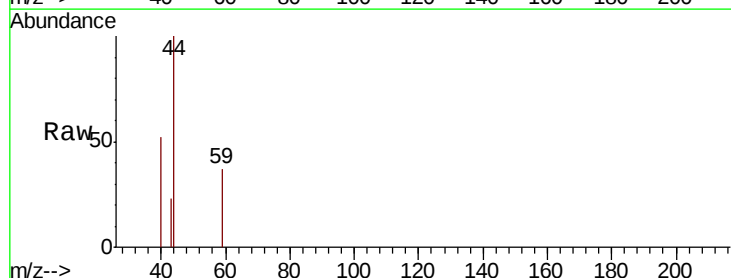
Acq: 1 Nov 2019 16:42

Tgt Ion: 59 Resp: 274

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

4.76

250

200

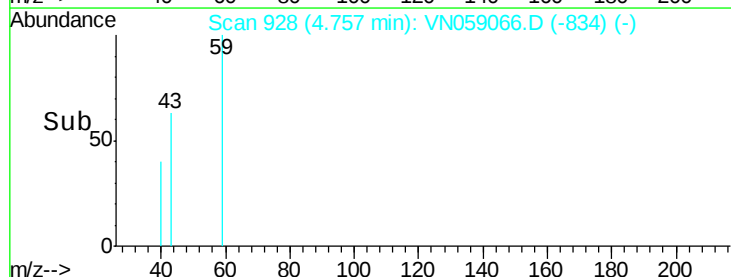
150

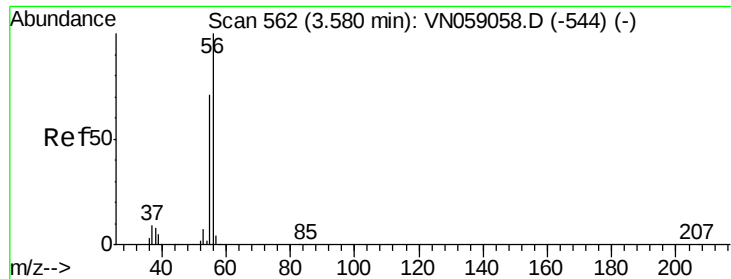
100

50

0

Time-->

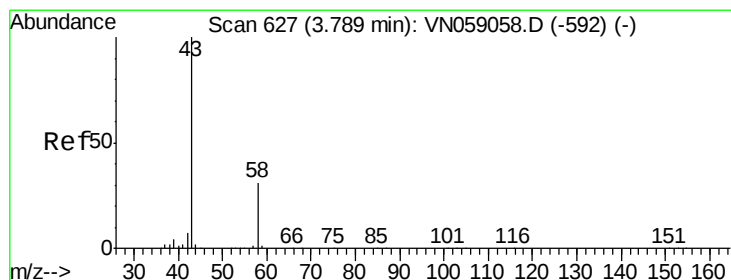
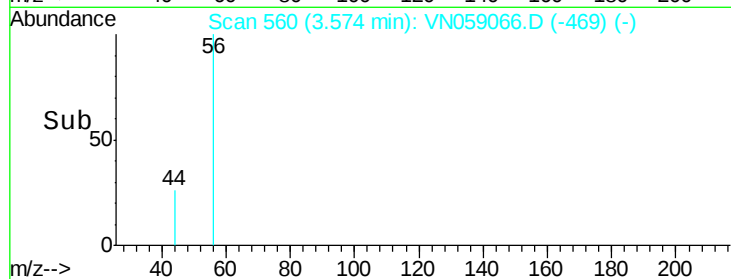
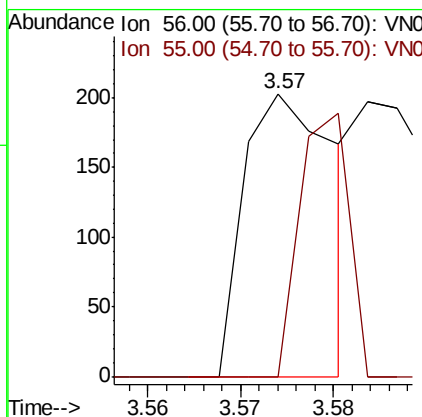
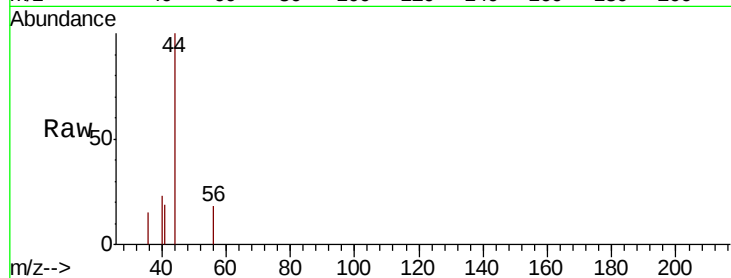




#13
Acrolein
Concen: 0.221 ug/l
RT: 3.57 min Scan# 560
Delta R.T. -0.01 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

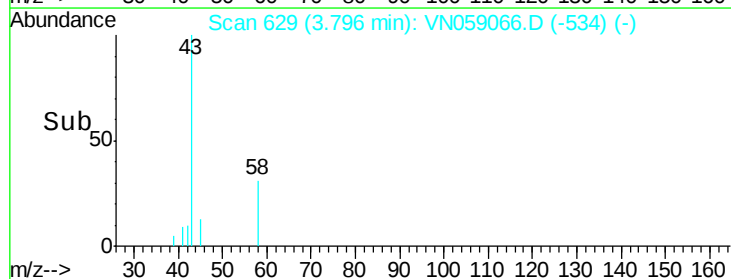
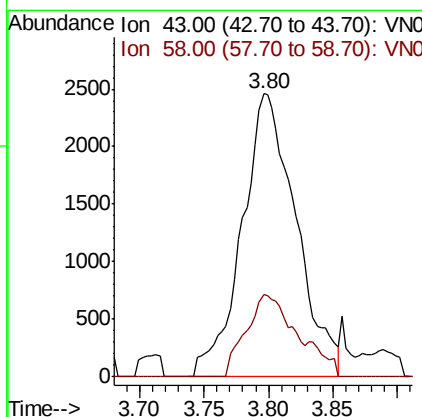
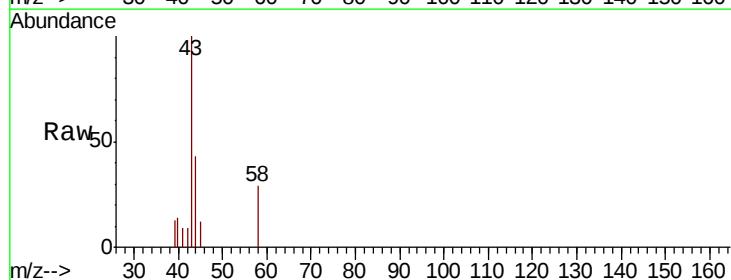
Instrument :
MSVOA_N
ClientSampleId :

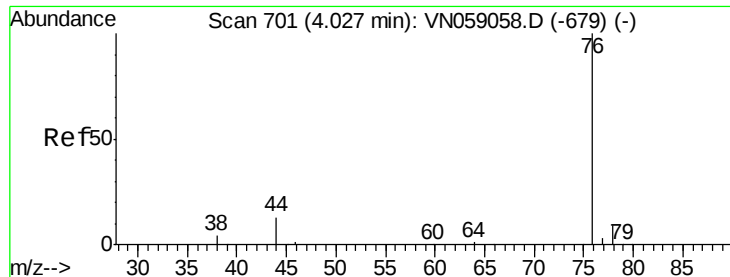
Tot Ion: 56 Resp: 138
Ion Ratio Lower Upper
56 100
55 50.7 56.1 84.1#



#16
Acetone
Concen: 2.659 ug/l
RT: 3.80 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

Tgt Ion: 43 Resp: 7185
Ion Ratio Lower Upper
43 100
58 29.0 25.0 37.6





#17

Carbon Disulfide

Concen: 0.492 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

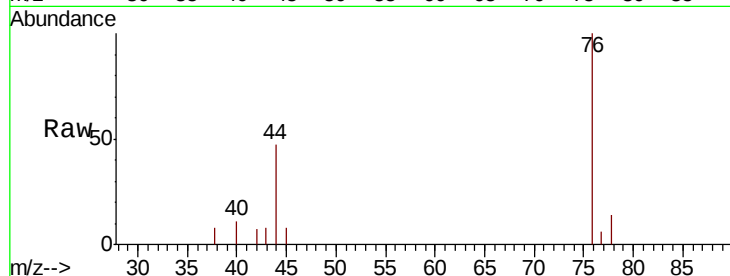
ClientSampled :

Tot Ion: 76 Resp: 6253

Ion Ratio Lower Upper

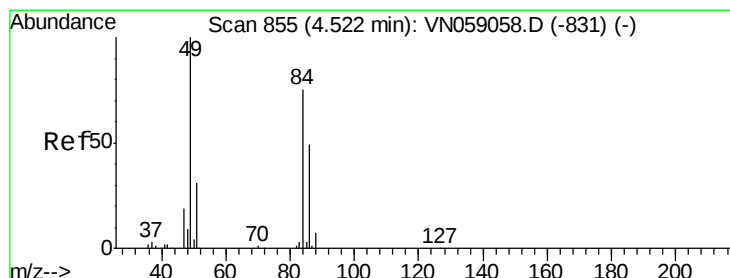
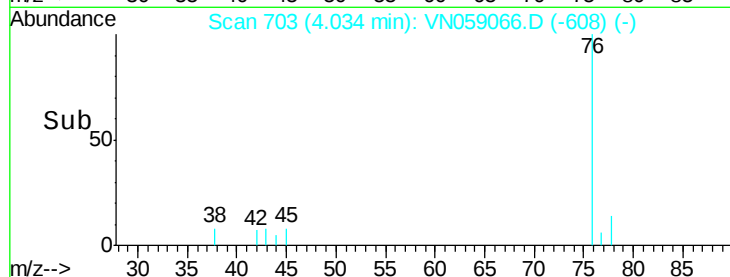
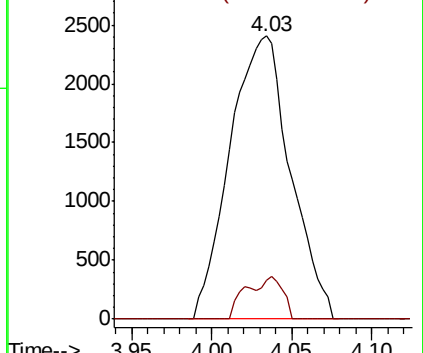
76 100

78 13.7 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: 1.638 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.01 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Tgt Ion: 84 Resp: 7748

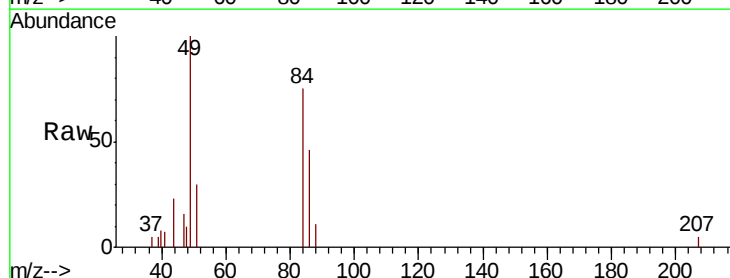
Ion Ratio Lower Upper

84 100

49 126.0 106.4 159.6

51 39.5 33.0 49.4

86 61.5 52.0 78.0

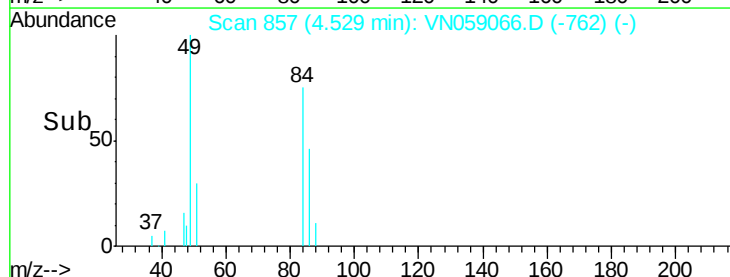
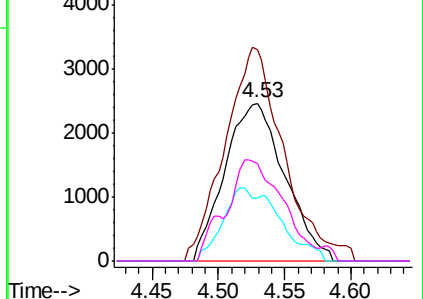


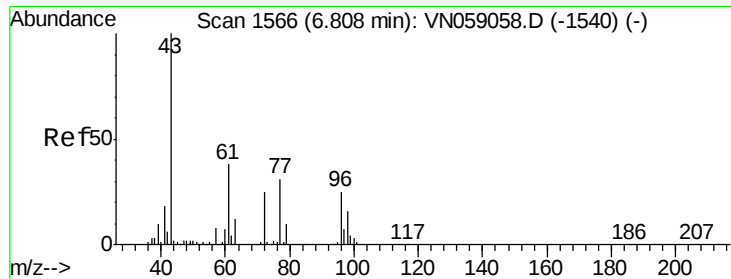
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

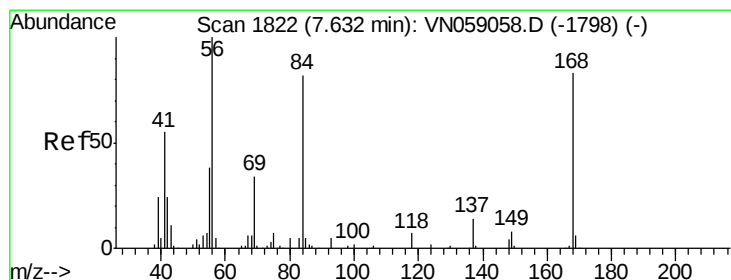
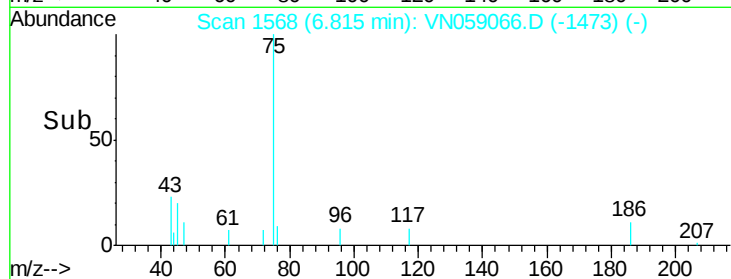
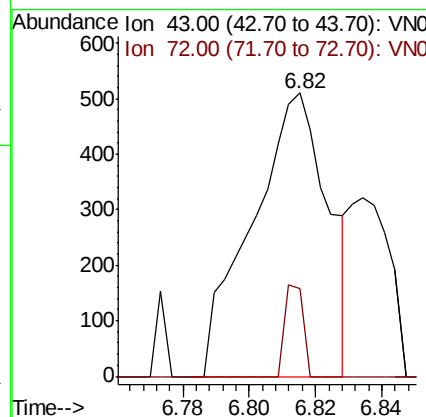
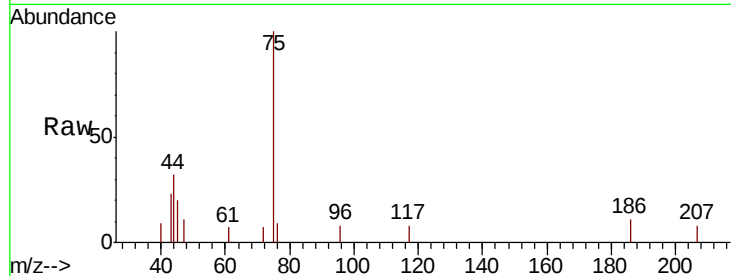




#25
2-Butanone
Concen: 0.225 ug/l
RT: 6.82 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

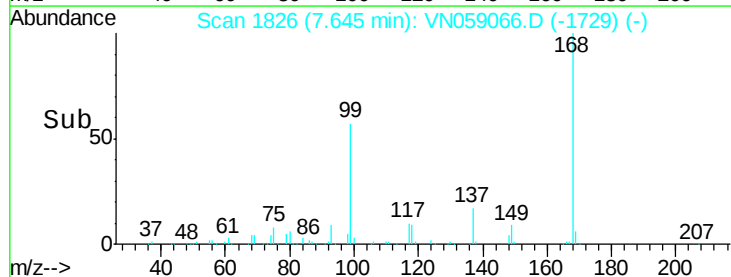
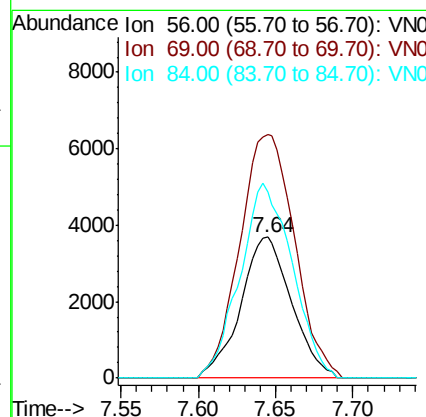
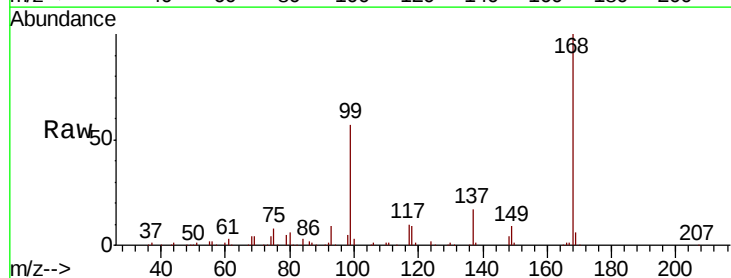
Instrument :
MSVOA_N
ClientSampled :

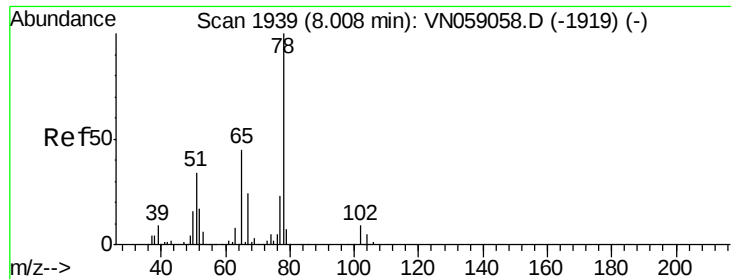
Tot Ion: 43 Resp: 810
Ion Ratio Lower Upper
43 100
72 31.0 19.9 29.9#



#31
Cyclohexane
Concen: 1.028 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

Tgt Ion: 56 Resp: 8449
Ion Ratio Lower Upper
56 100
69 172.8 27.2 40.8#
84 132.4 65.2 97.8#





#33

1,2-Dichloroethane-d4

Concen: 48.858 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

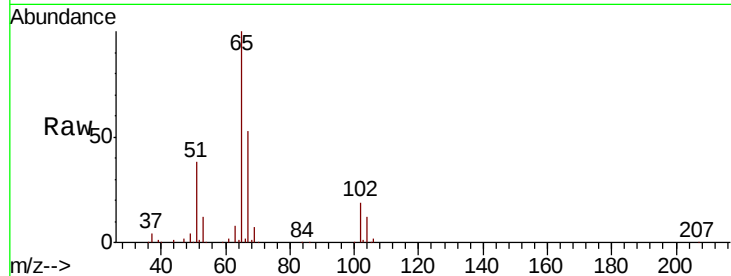
ClientSampleId :

Tot Ion: 65 Resp: 260737

Ion Ratio Lower Upper

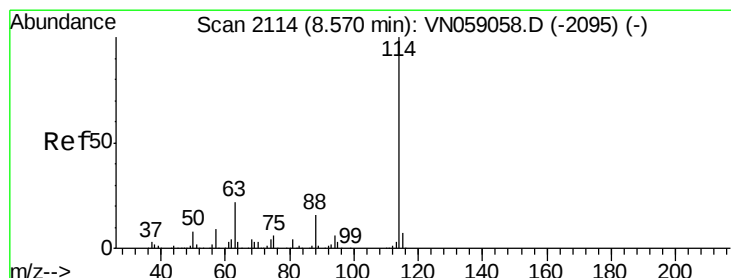
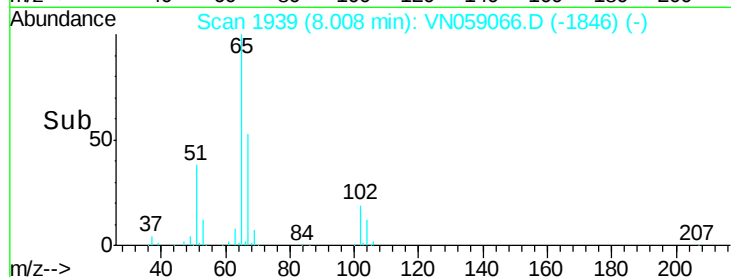
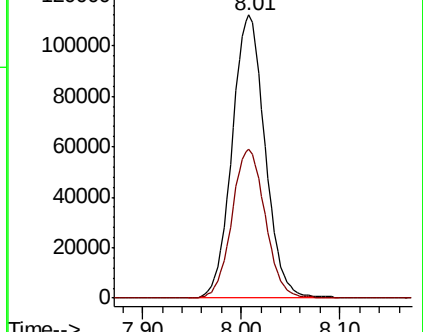
65 100

67 53.0 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN059066.D (-1846) (-)

Ion 66.90 (66.60 to 67.60): VN059066.D (-1846) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

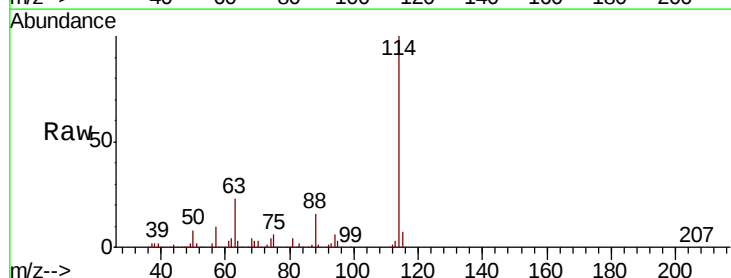
Tgt Ion: 114 Resp: 621653

Ion Ratio Lower Upper

114 100

63 22.9 0.0 43.2

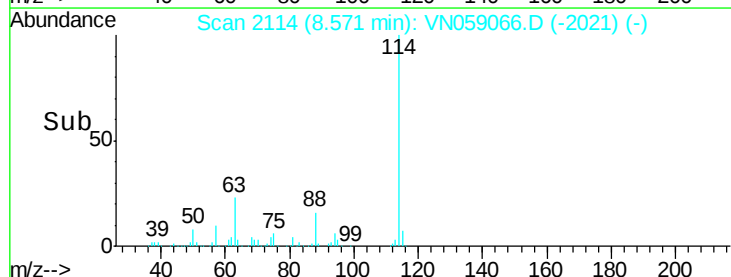
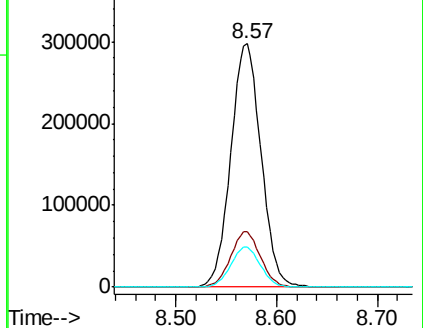
88 16.3 0.0 33.0

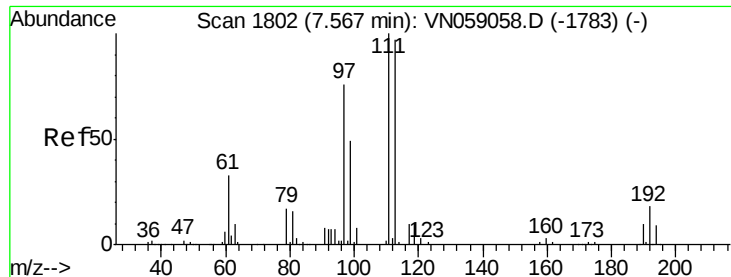


Abundance Ion 113.90 (113.60 to 114.60): VN059066.D (-2021) (-)

Ion 63.00 (62.70 to 63.70): VN059066.D (-2021) (-)

Ion 87.90 (87.60 to 88.60): VN059066.D (-2021) (-)

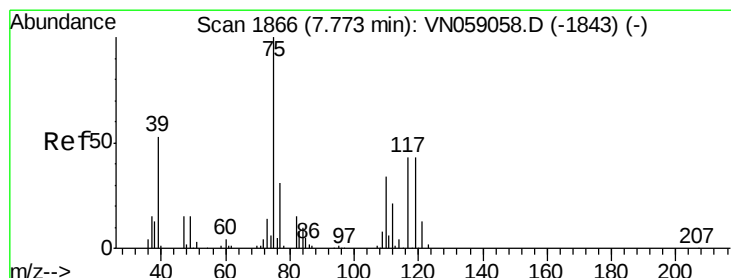
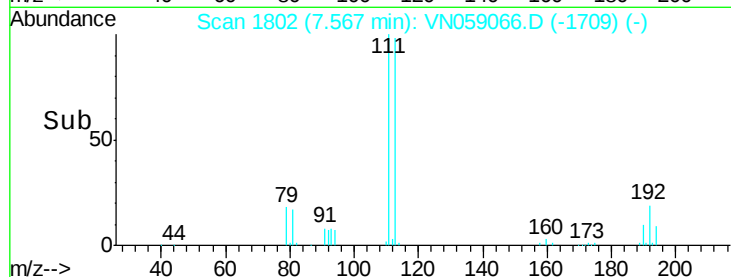
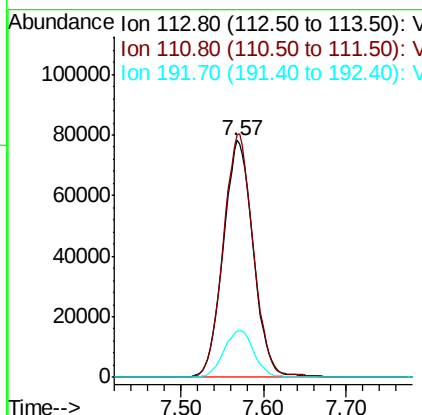
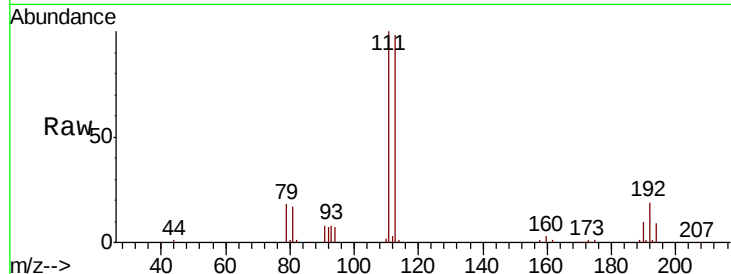




#35
Dibromofluoromethane
Concen: 49.110 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. 0.00 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

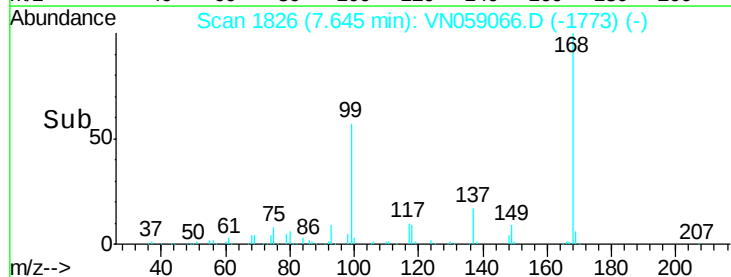
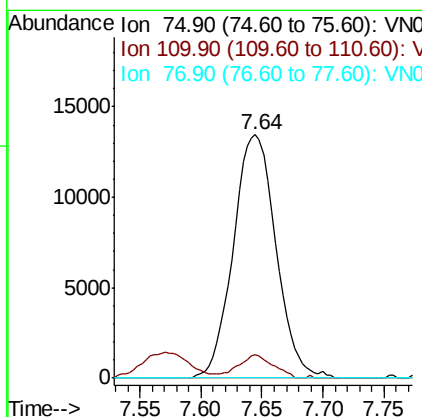
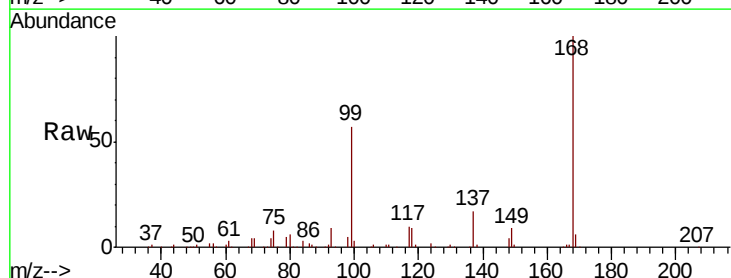
Instrument :
MSVOA_N
ClientSampleId :

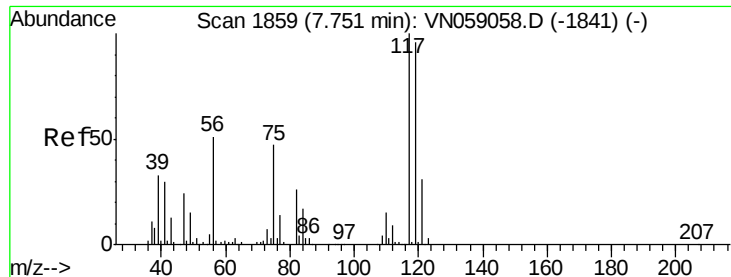
Tot Ion:113 Resp: 196952
Ion Ratio Lower Upper
113 100
111 101.3 82.9 124.3
192 19.9 15.9 23.9



#36
1,1-Dichloropropene
Concen: 5.274 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

Tgt Ion: 75 Resp: 32587
Ion Ratio Lower Upper
75 100
110 7.8 16.9 50.6#
77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 6.570 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

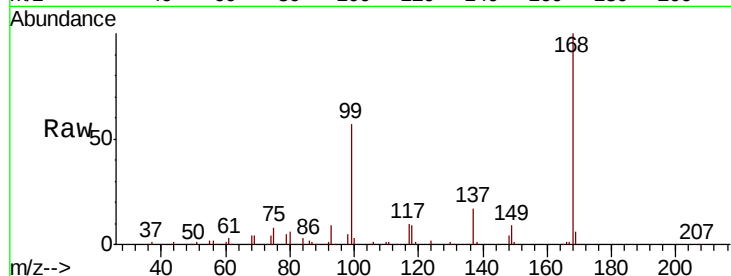
Tot Ion:117 Resp: 39561

Ion Ratio Lower Upper

117 100

119 6.0 76.6 114.8#

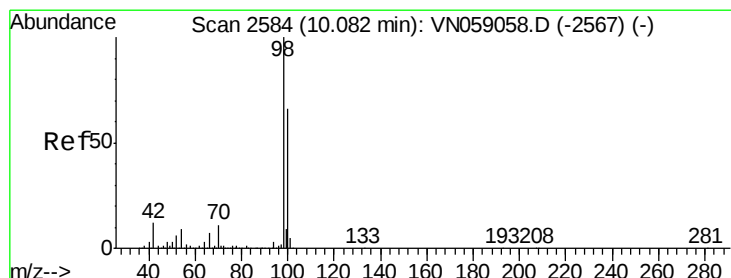
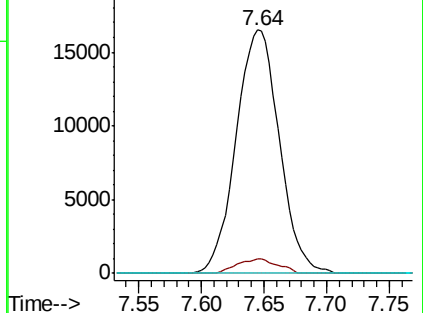
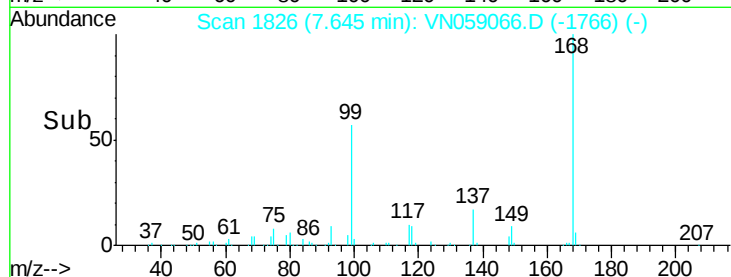
121 0.0 24.6 37.0#



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



#50

Toluene-d8

Concen: 48.373 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059066.D

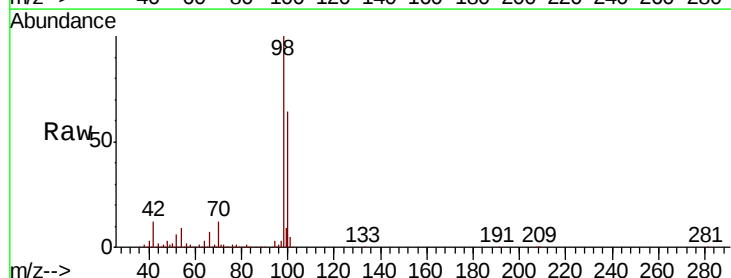
Acq: 1 Nov 2019 16:42

Tgt Ion: 98 Resp: 755287

Ion Ratio Lower Upper

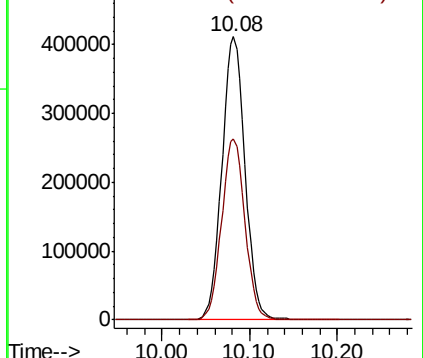
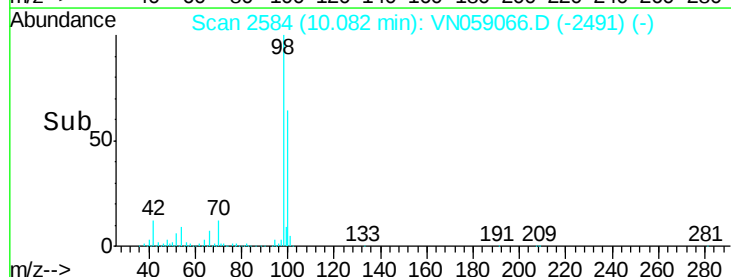
98 100

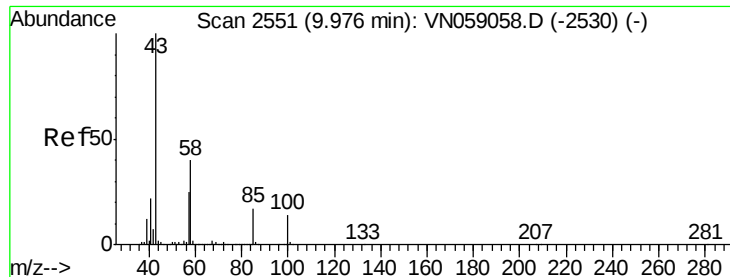
100 64.4 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN





#51

4-Methyl-2-Pentanone

Concen: 0.253 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

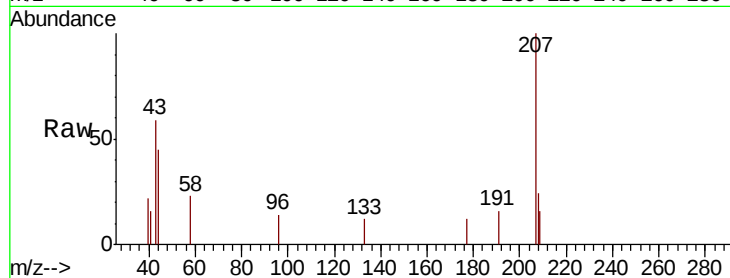
ClientSampleId :

Tot Ion: 43 Resp: 1578

Ion Ratio Lower Upper

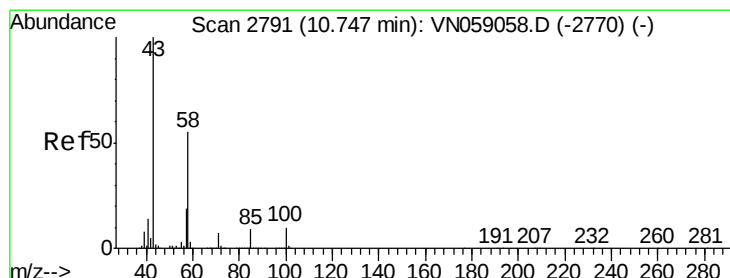
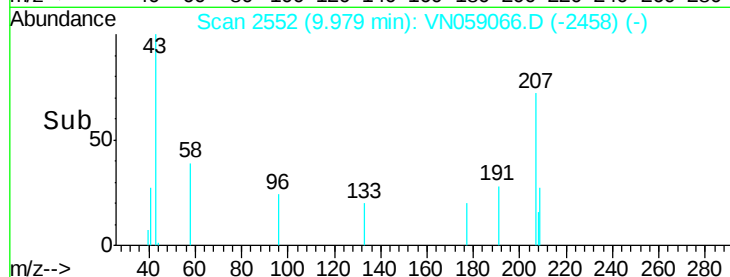
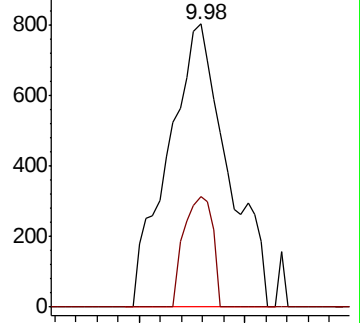
43 100

58 18.9 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#59

2-Hexanone

Concen: 0.363 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN059066.D

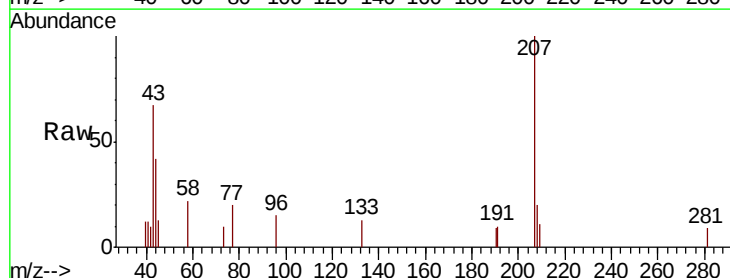
Acq: 1 Nov 2019 16:42

Tgt Ion: 43 Resp: 1722

Ion Ratio Lower Upper

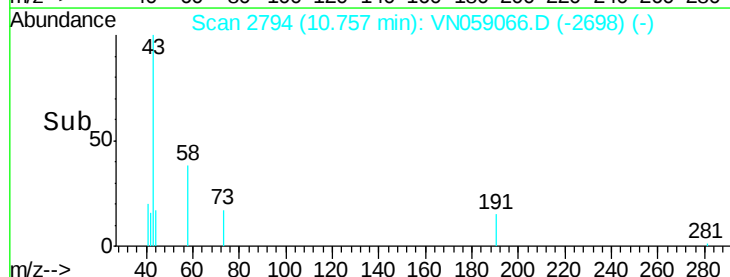
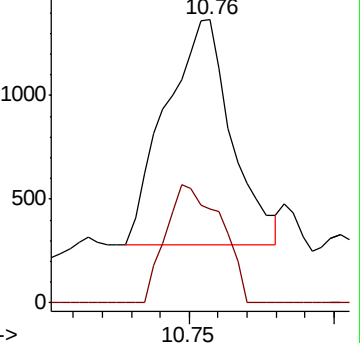
43 100

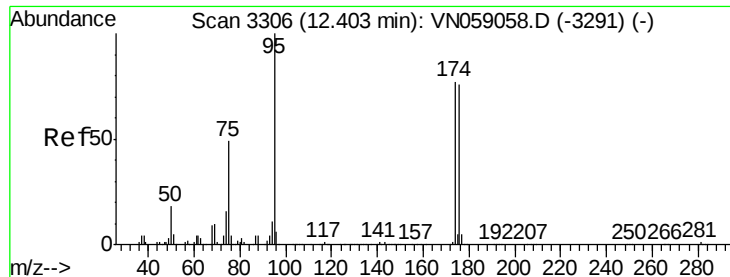
58 44.0 27.4 82.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

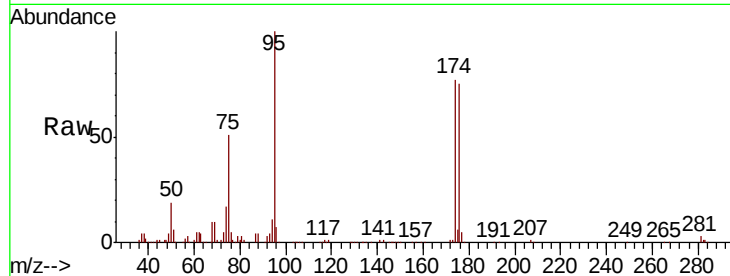




#62
4-Bromofluorobenzene
Concen: 43.042 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

Instrument :
MSVOA_N
ClientSampleId :

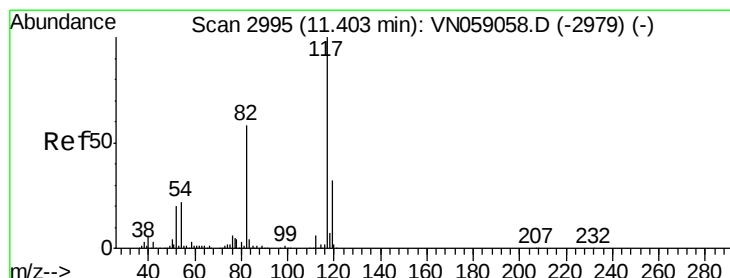
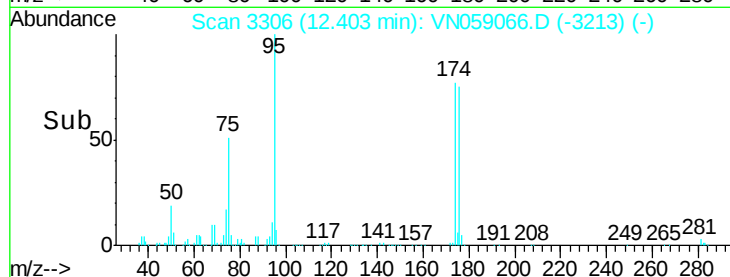
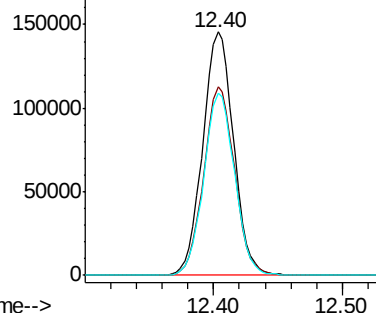
Tot Ion	Ratio	Lower	Upper
95	100		
174	77.4	0.0	155.8
176	75.2	0.0	151.6



Abundance Ion 94.90 (94.60 to 95.60): VN059058.D (-3291) (-)

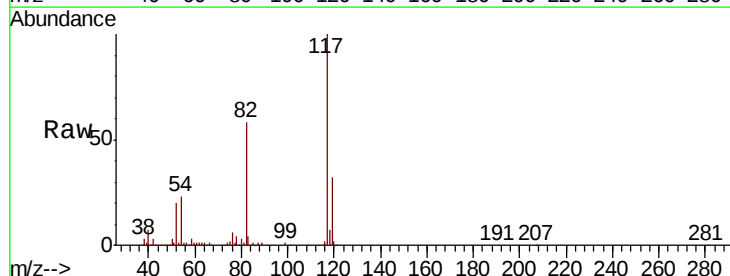
Ion 173.80 (173.50 to 174.50): VN059058.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059058.D (-3291) (-)



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059066.D
Acq: 1 Nov 2019 16:42

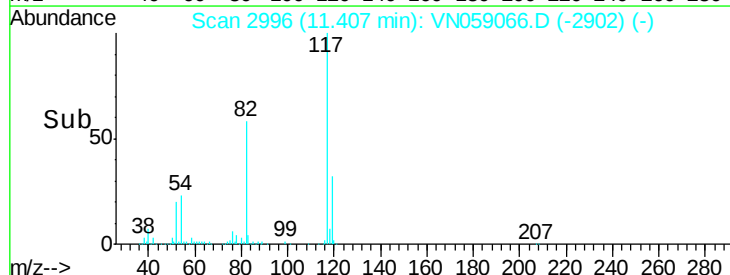
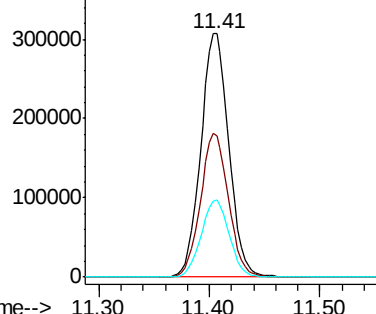
Tgt Ion	Ratio	Lower	Upper
117	100		
82	58.2	46.0	69.0
119	31.8	25.6	38.4

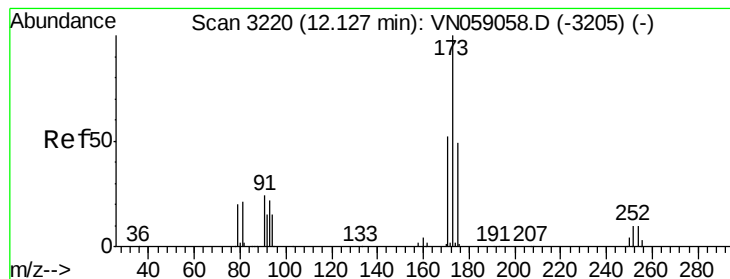


Abundance Ion 116.90 (116.60 to 117.60): VN059058.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN059058.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN059058.D (-2979) (-)





#71

Bromoform

Concen: 0.449 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

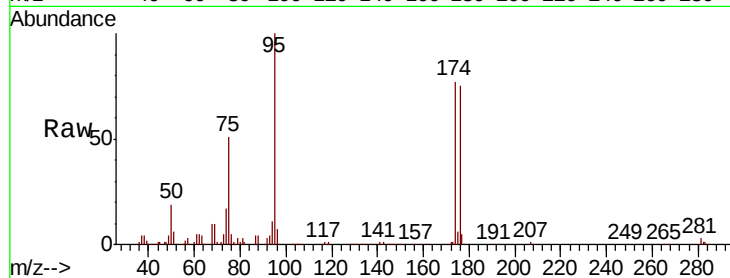
Tot Ion:173 Resp: 1417

Ion Ratio Lower Upper

173 100

175 768.5 24.4 73.2#

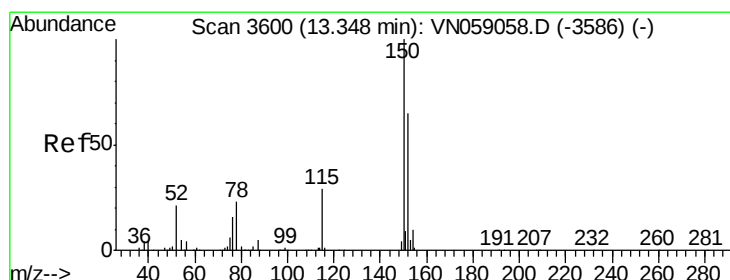
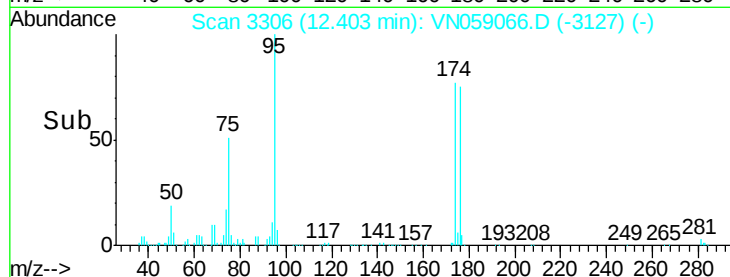
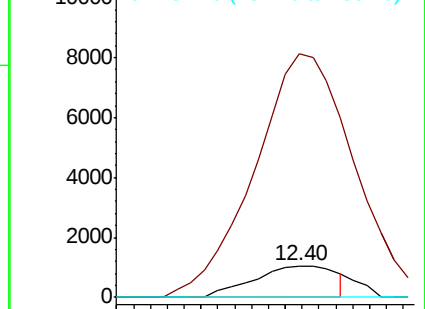
254 0.0 0.1 0.1#



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: VN059066.D

Acq: 1 Nov 2019 16:42

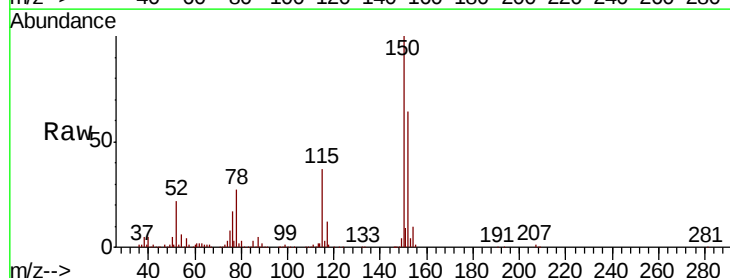
Tgt Ion:152 Resp: 197923

Ion Ratio Lower Upper

152 100

115 60.0 29.6 88.9

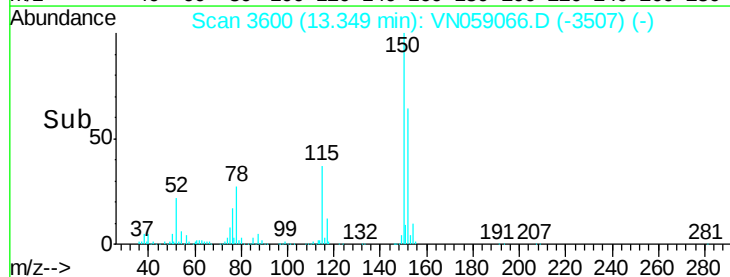
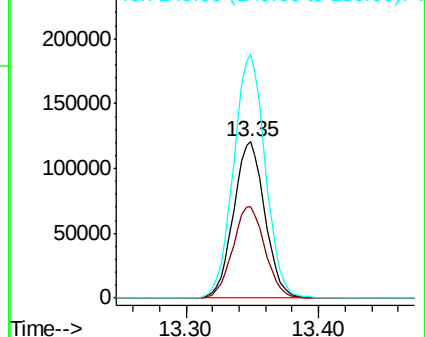
150 157.9 0.0 345.8

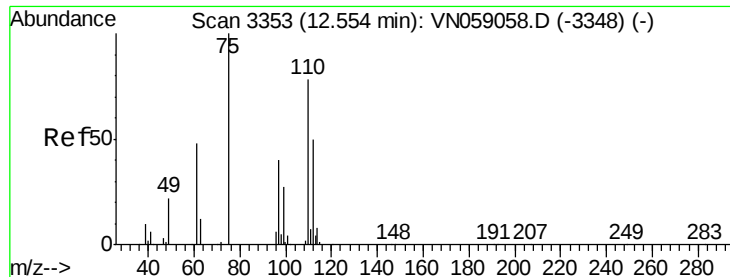


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.198 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

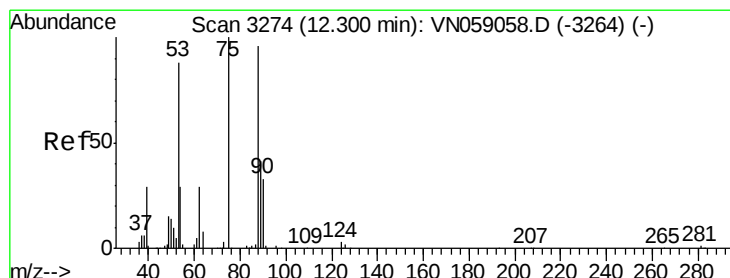
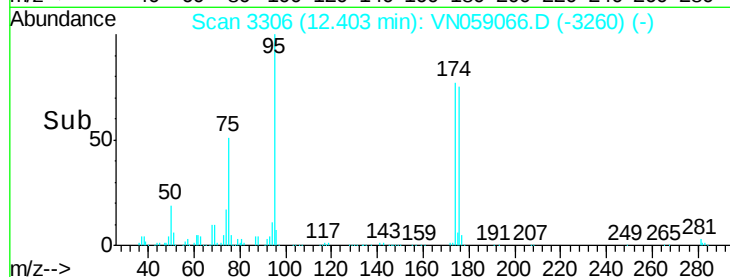
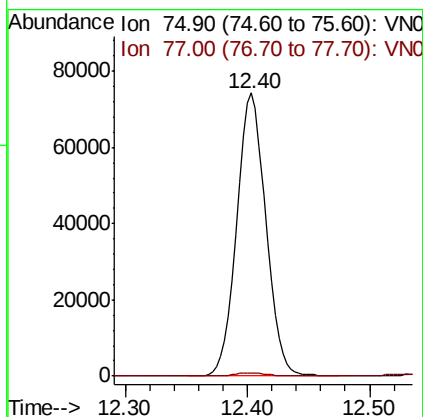
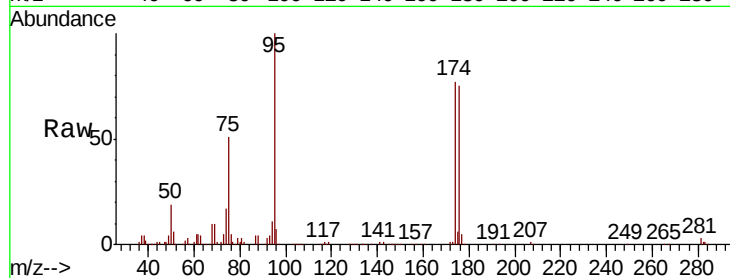
ClientSampleId :

Tot Ion: 75 Resp: 122701

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.158 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

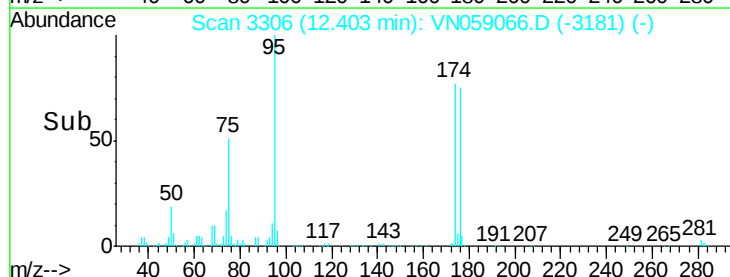
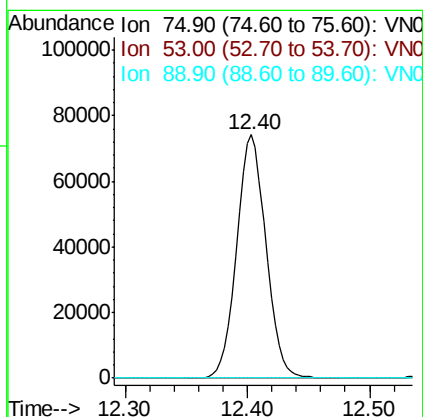
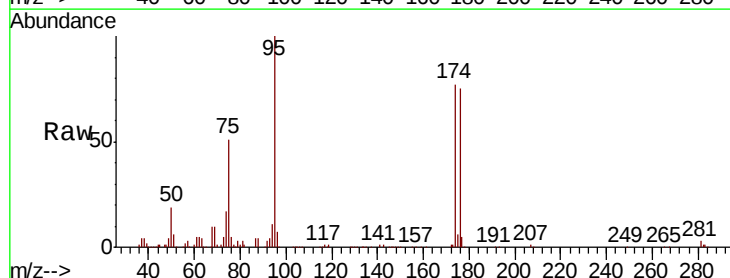
Tgt Ion: 75 Resp: 122701

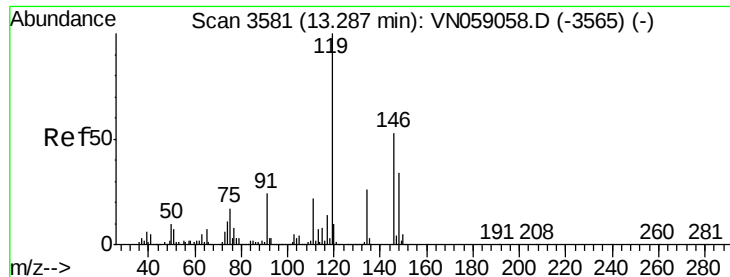
Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

89 0.0 34.2 51.2#

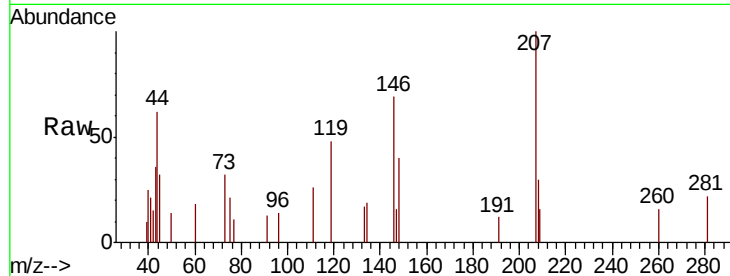




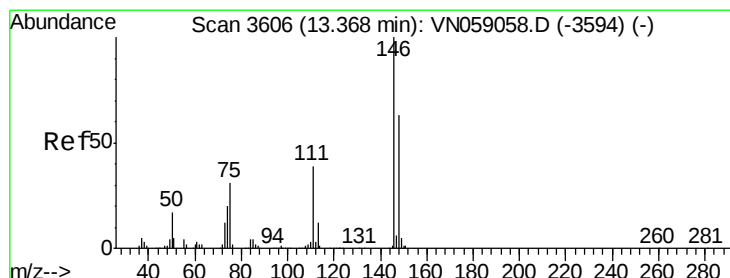
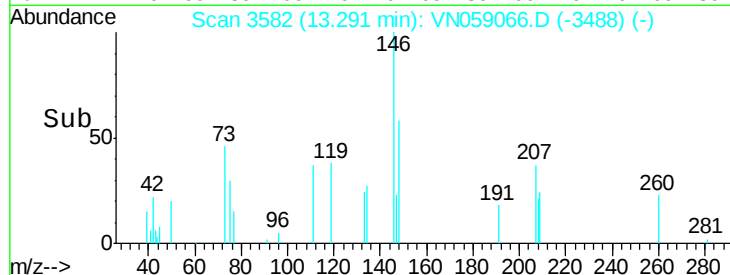
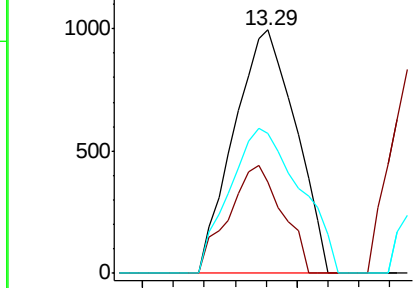
#87
 1,3-Dichlorobenzene
 Concen: 0.214 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN059066.D
 Acq: 1 Nov 2019 16:42

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 1382
 Ion Ratio Lower Upper
 146 100
 111 38.4 20.5 61.5
 148 68.0 31.8 95.3

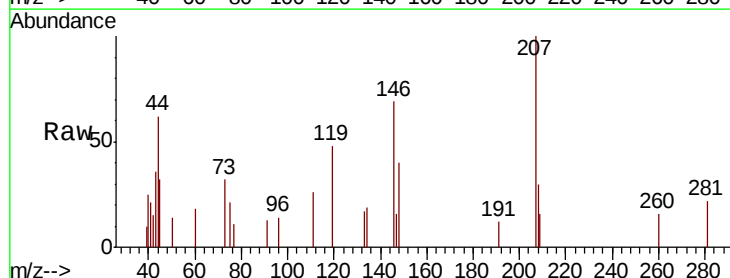


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

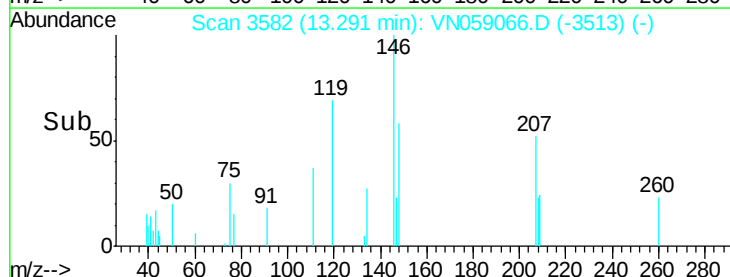
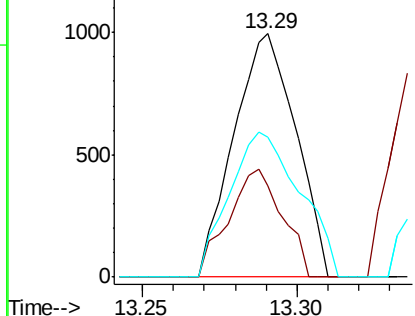


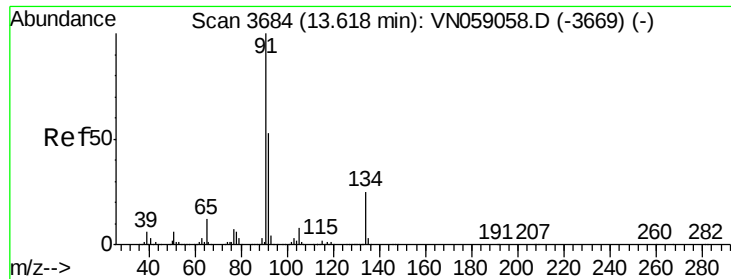
#88
 1,4-Dichlorobenzene
 Concen: 0.216 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. -0.08 min
 Lab File: VN059066.D
 Acq: 1 Nov 2019 16:42

Tgt Ion:146 Resp: 1382
 Ion Ratio Lower Upper
 146 100
 111 38.4 20.1 60.2
 148 68.0 31.9 95.7



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V





#89

n-Butylbenzene

Concen: 0.204 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

ClientSampled :

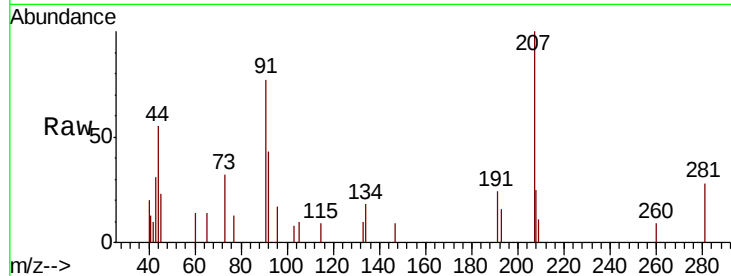
Tot Ion: 91 Resp: 2213

Ion Ratio Lower Upper

91 100

92 51.1 26.4 79.0

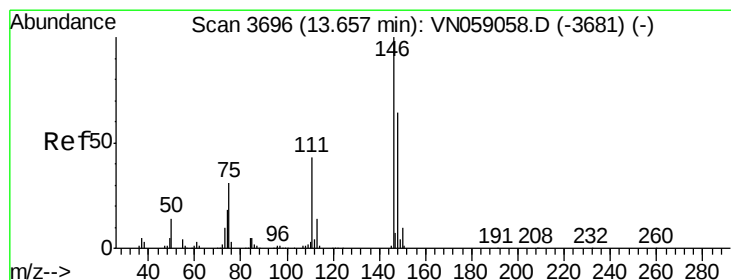
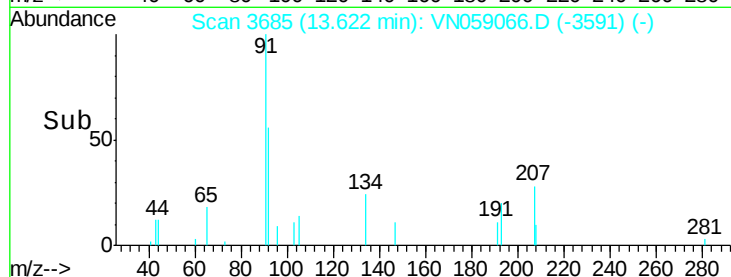
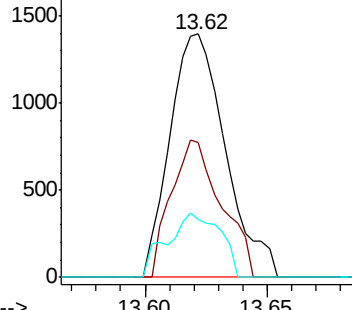
134 25.2 12.5 37.5



Abundance Ion 91.00 (90.70 to 91.70): VN059058.D (-3669) (-)

Ion 92.00 (91.70 to 92.70): VN059058.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN059058.D (-3669) (-)



#91

1,2-Dichlorobenzene

Concen: 0.315 ug/l

RT: 13.66 min Scan# 3697

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

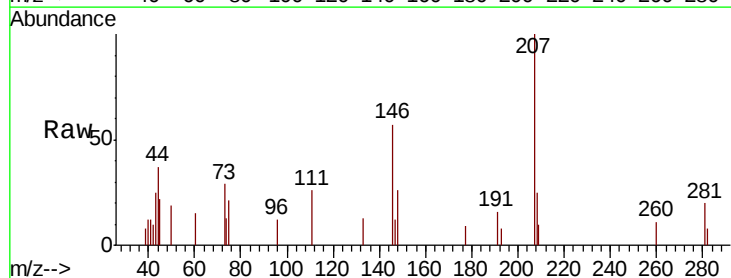
Tgt Ion: 146 Resp: 2028

Ion Ratio Lower Upper

146 100

111 41.3 21.2 63.6

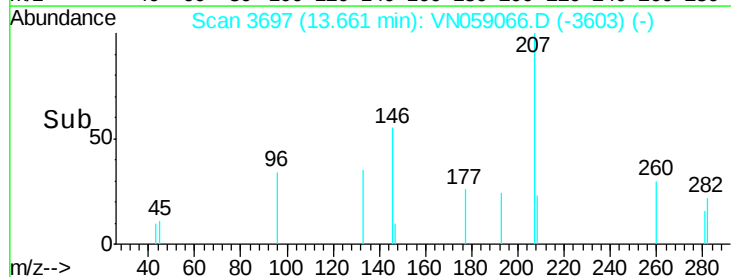
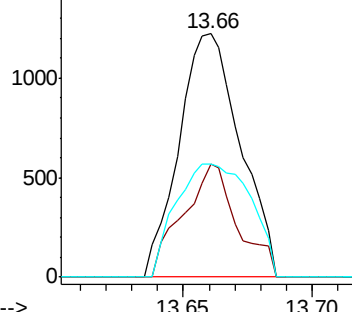
148 56.4 32.1 96.3

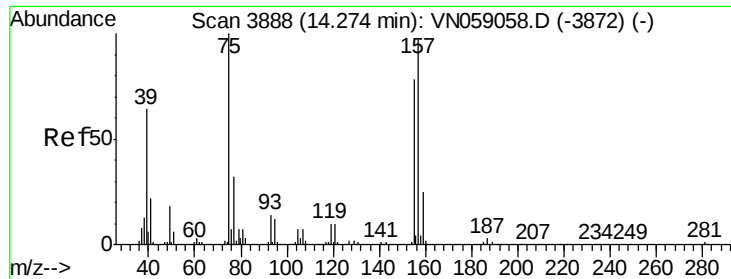


Abundance Ion 145.90 (145.60 to 146.60): VN059058.D (-3681) (-)

Ion 110.90 (110.60 to 111.60): VN059058.D (-3681) (-)

Ion 147.90 (147.60 to 148.60): VN059058.D (-3681) (-)

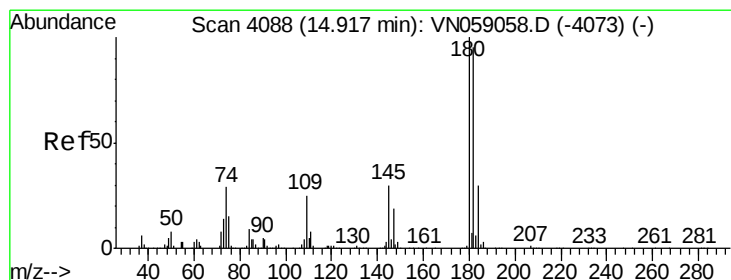
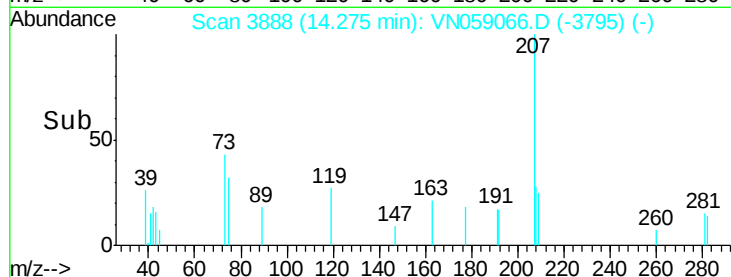
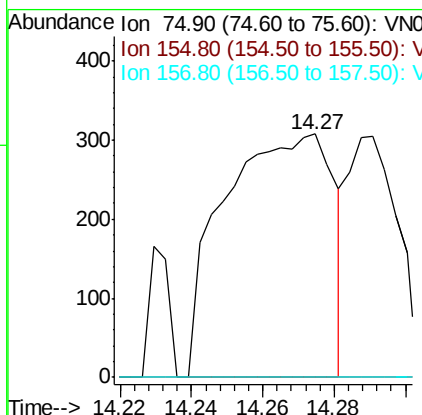
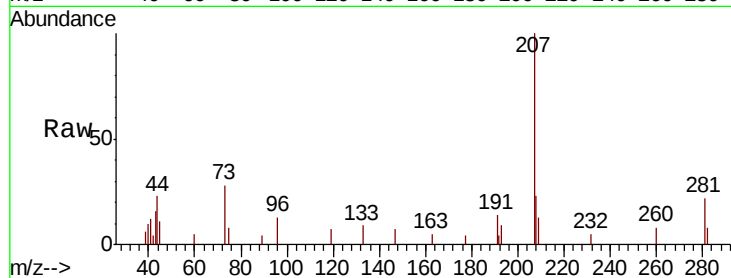




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.582 ug/l
 RT: 14.27 min Scan# 3888
 Delta R.T. 0.00 min
 Lab File: VN059066.D
 Acq: 1 Nov 2019 16:42

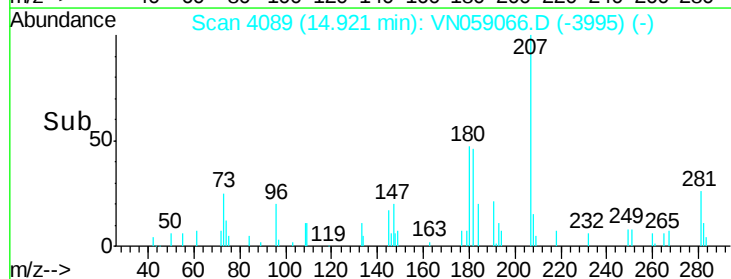
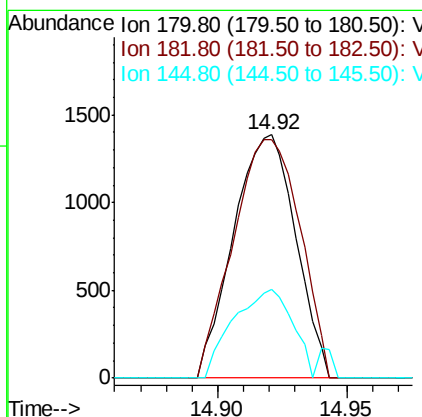
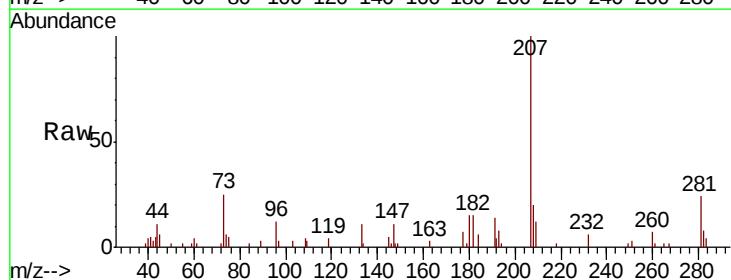
Instrument :
 MSVOA_N
 ClientSampled :

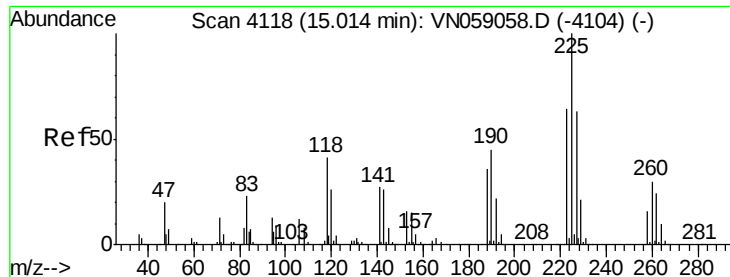
Tot Ion: 75 Resp: 652
 Ion Ratio Lower Upper
 75 100
 155 0.0 39.7 119.1#
 157 0.0 51.0 153.0#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.673 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN059066.D
 Acq: 1 Nov 2019 16:42

Tgt Ion: 180 Resp: 2336
 Ion Ratio Lower Upper
 180 100
 182 105.4 47.8 143.4
 145 34.7 15.1 45.3





#94

Hexachlorobutadiene

Concen: 0.279 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

Instrument :

MSVOA_N

ClientSampleId :

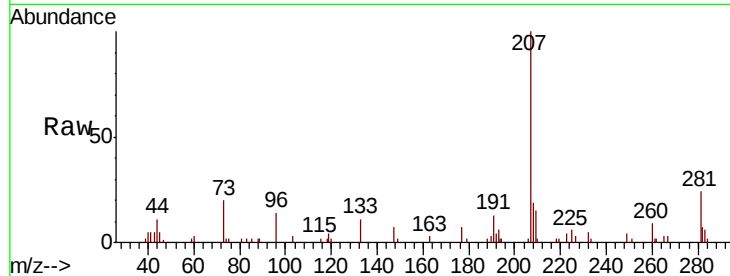
Tot Ion:225 Resp: 582

Ion Ratio Lower Upper

225 100

223 92.3 31.6 95.0

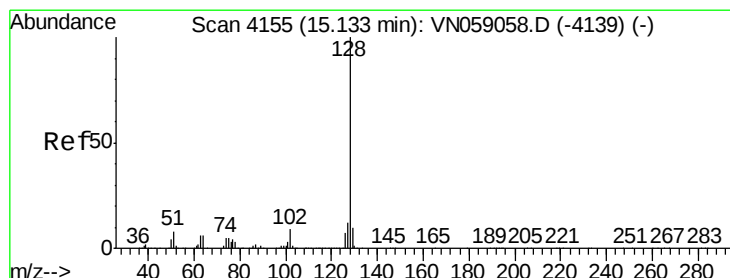
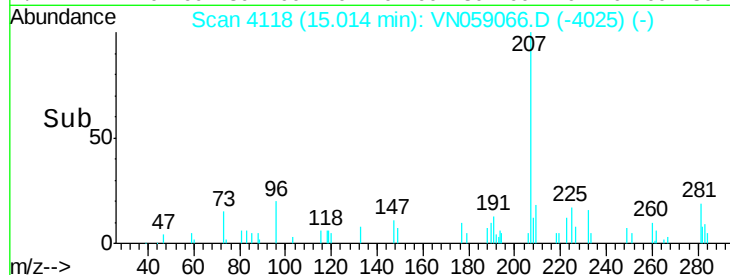
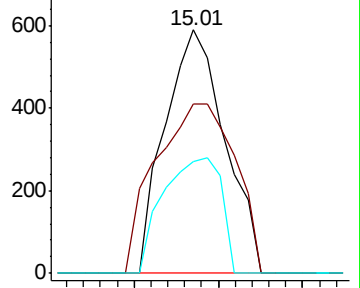
227 46.2 31.9 95.7



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 4.148 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059066.D

Acq: 1 Nov 2019 16:42

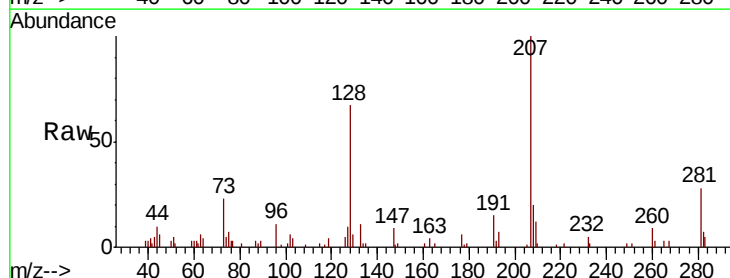
Tgt Ion:128 Resp: 13378

Ion Ratio Lower Upper

128 100

127 14.2 9.9 14.9

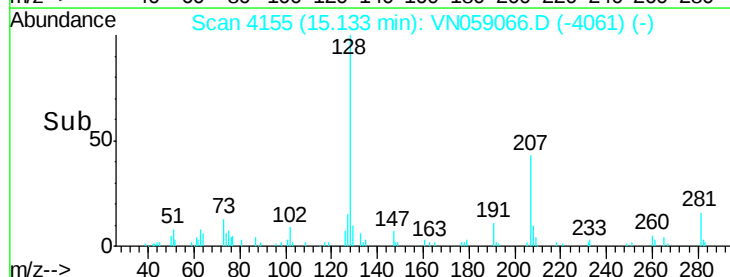
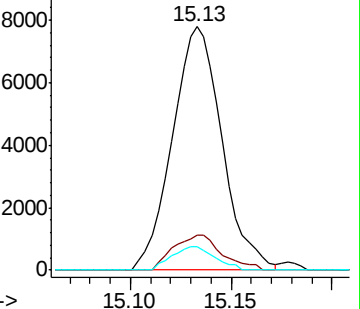
129 8.5 8.4 12.6

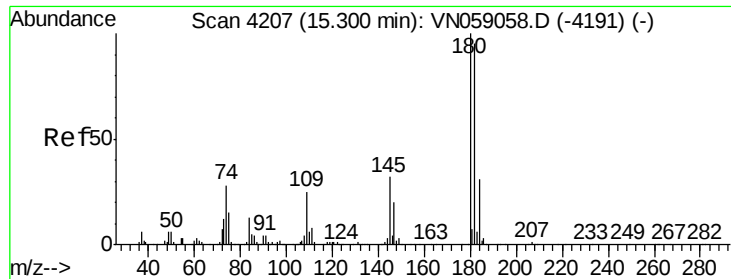


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.961 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. 0.00 min
 Lab File: VN059066.D
 Acq: 1 Nov 2019 16:42

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	47.7	143.1
145	39.6	16.0	48.0

