

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102419\
 Data File : VN058939.D
 Acq On : 23 Oct 2019 18:42
 Operator : JC/SP
 Sample : K5508-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 24 01:16:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	299685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	510281	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	457690	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	176206	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	244470	55.62	ug/l	0.00
Spiked Amount						
			Recovery	=	111.24%	
35) Dibromofluoromethane	7.57	113	173347	51.67	ug/l	0.00
Spiked Amount						
			Recovery	=	103.34%	
50) Toluene-d8	10.08	98	612156	47.00	ug/l	0.00
Spiked Amount						
			Recovery	=	94.00%	
62) 4-Bromofluorobenzene	12.40	95	197050	41.20	ug/l	0.00
Spiked Amount						
			Recovery	=	82.40%	

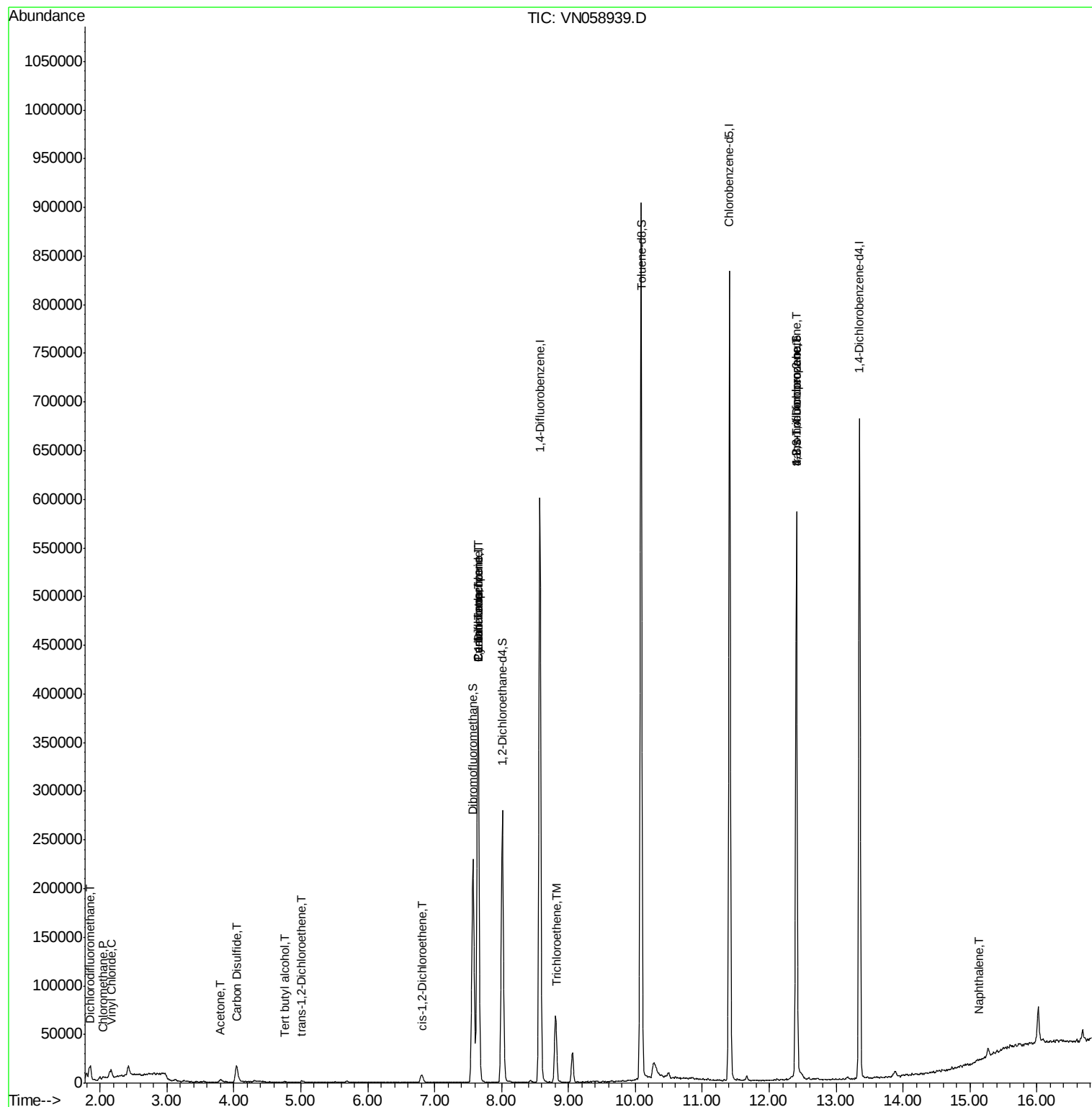
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	8279	2.216	ug/l	97
3) Chloromethane	2.04	50	1607	0.347	ug/l	100
4) Vinyl Chloride	2.17	62	5420	1.180	ug/l	99
11) Tert butyl alcohol	4.76	59	386	0.529	ug/l #	72
16) Acetone	3.80	43	5367	2.471	ug/l	99
17) Carbon Disulfide	4.03	76	2981	0.313	ug/l #	75
21) trans-1,2-Dichloroethene	5.01	96	665	0.204	ug/l #	74
27) cis-1,2-Dichloroethene	6.81	96	2848	0.764	ug/l	96
31) Cyclohexane	7.65	56	7364	1.166	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	26162	5.008	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30562	5.679	ug/l #	15
44) Trichloroethene	8.83	130	1153	0.309	ug/l	99
76) 1,2,3-Trichloropropane	12.40	75	107846	26.408	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	107846	68.796	ug/l #	10
95) Naphthalene	15.14	128	243	2.248	ug/l #	70

(#) = 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: VN058939.D

Acq: 23 Oct 2019 18:42

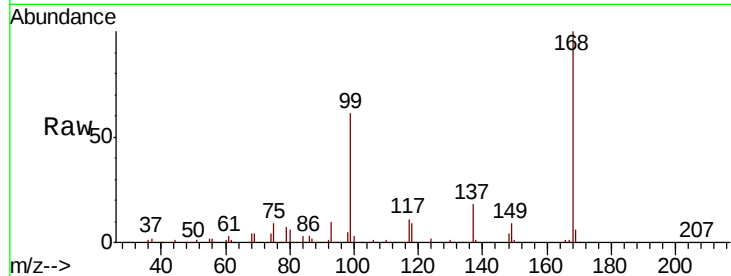
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 299685

Ion Ratio Lower Upper

168 100

99 60.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

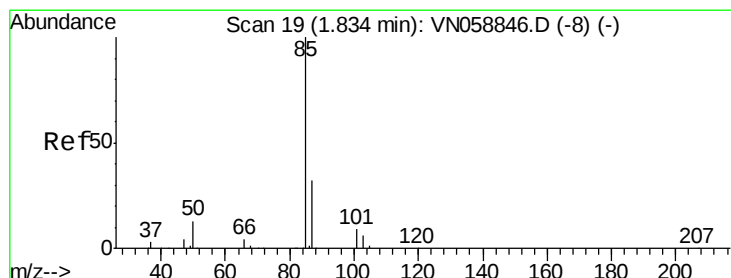
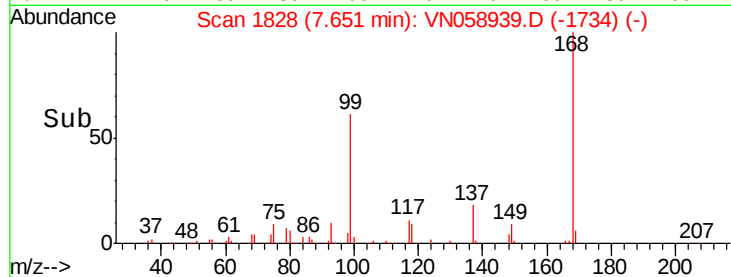
100000

50000

0

7.60 7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 2.216 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058939.D

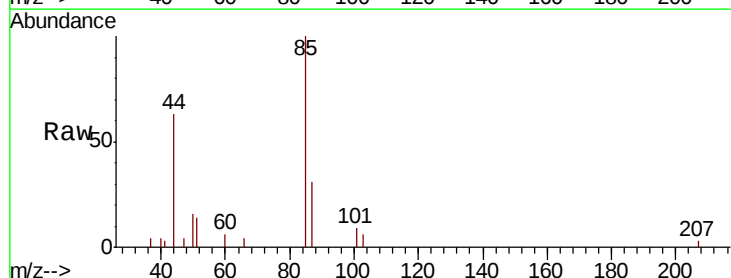
Acq: 23 Oct 2019 18:42

Tgt Ion: 85 Resp: 8279

Ion Ratio Lower Upper

85 100

87 30.8 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

6000

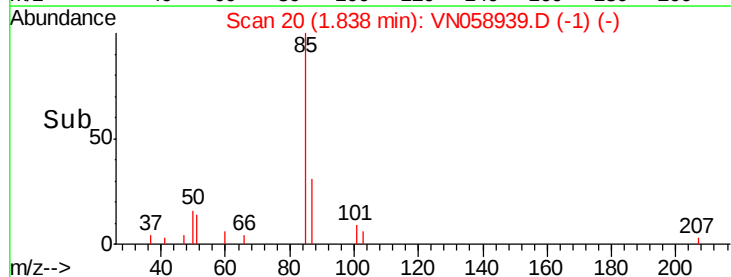
4000

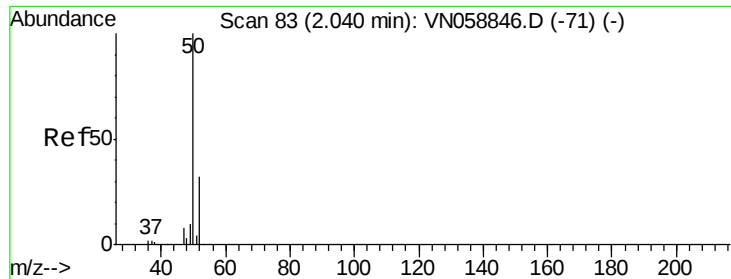
2000

0

1.80 1.85 1.90

Time-->





#3

Chloromethane

Concen: 0.347 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

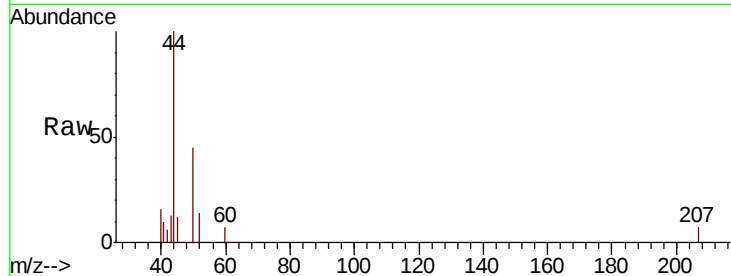
ClientSampled :

Tot Ion: 50 Resp: 1607

Ion Ratio Lower Upper

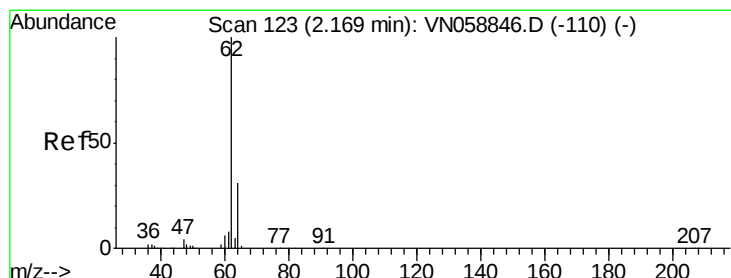
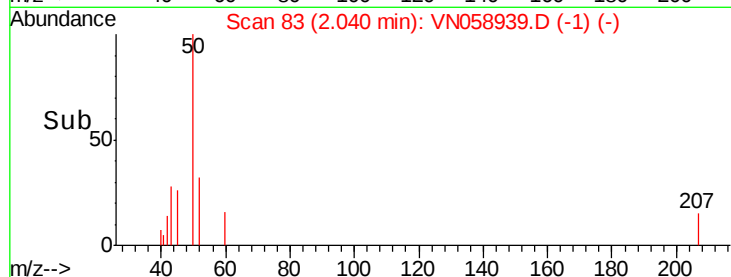
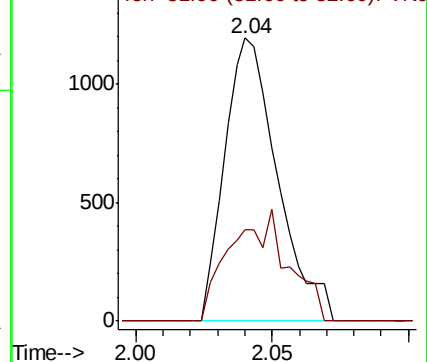
50 100

52 32.1 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 1.180 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058939.D

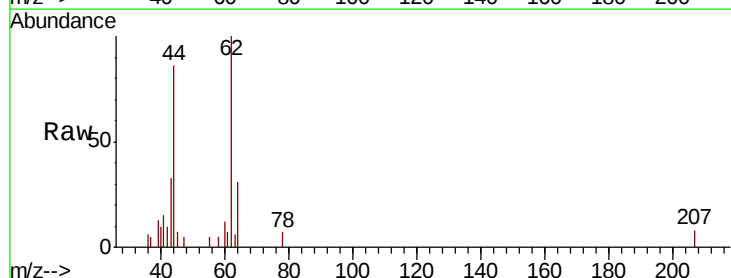
Acq: 23 Oct 2019 18:42

Tgt Ion: 62 Resp: 5420

Ion Ratio Lower Upper

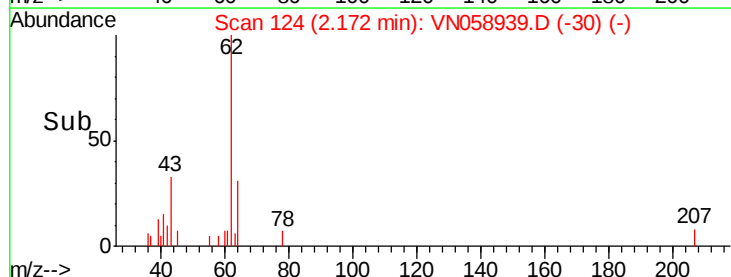
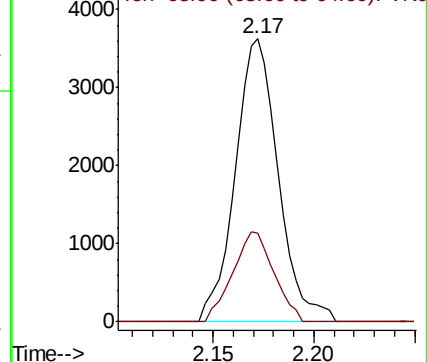
62 100

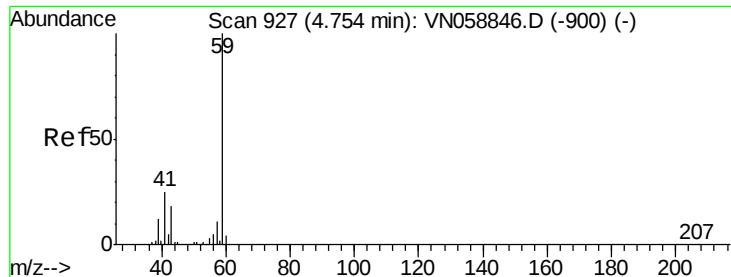
64 31.4 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO

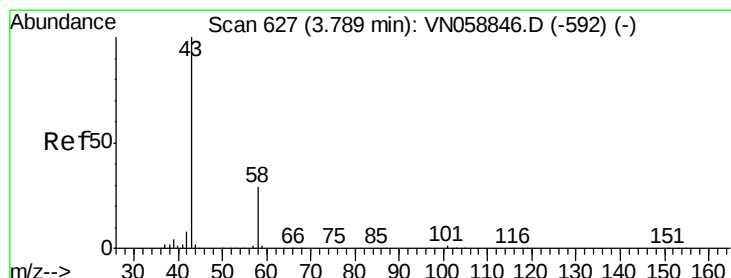
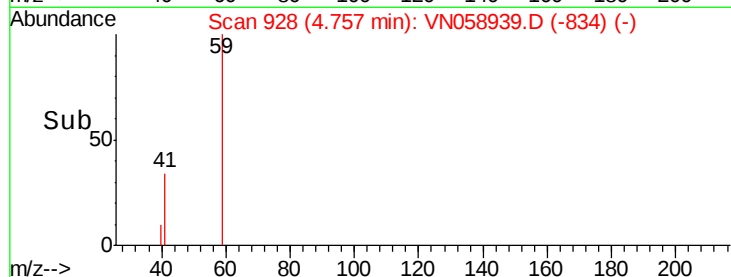
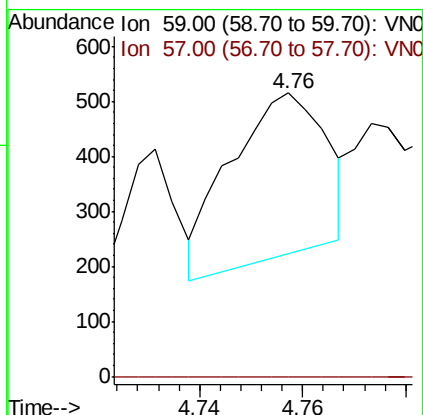
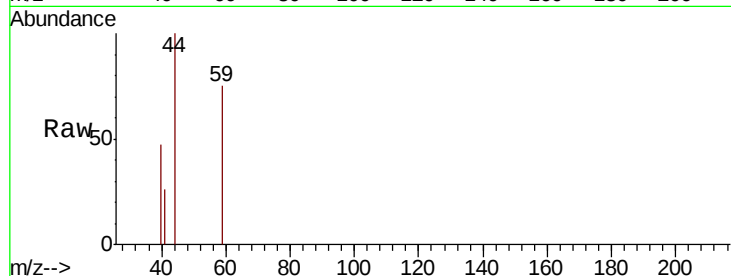




#11
Tert butyl alcohol
Concen: 0.529 ug/l
RT: 4.76 min Scan# 928
Delta R.T. 0.00 min
Lab File: VN058939.D
Acq: 23 Oct 2019 18:42

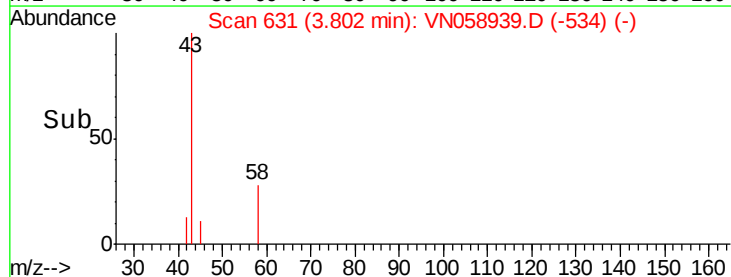
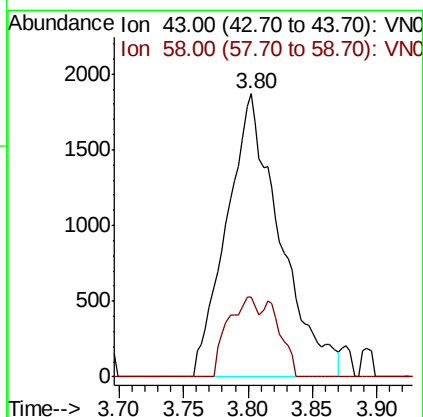
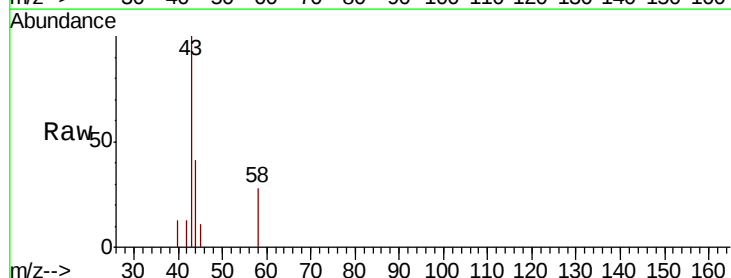
Instrument :
MSVOA_N
ClientSampled :

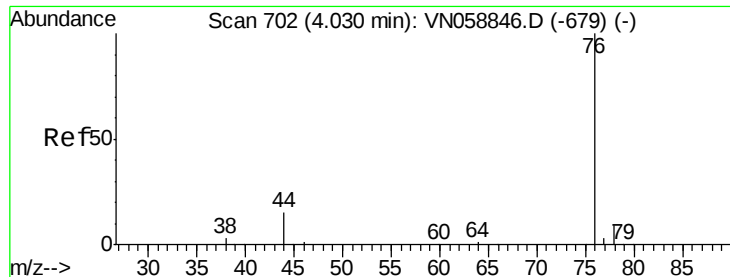
Tot Ion: 59 Resp: 386
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#16
Acetone
Concen: 2.471 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN058939.D
Acq: 23 Oct 2019 18:42

Tgt Ion: 43 Resp: 5367
Ion Ratio Lower Upper
43 100
58 28.2 23.1 34.7





#17

Carbon Disulfide

Concen: 0.313 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

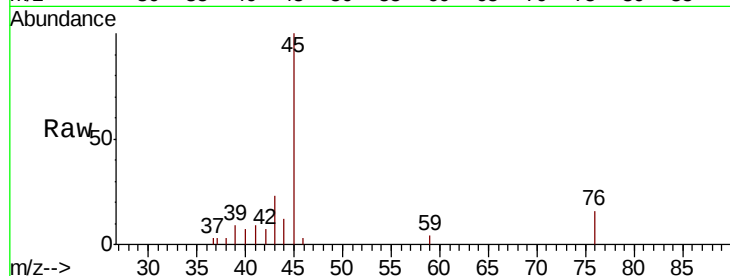
ClientSampled :

Tot Ion: 76 Resp: 2981

Ion Ratio Lower Upper

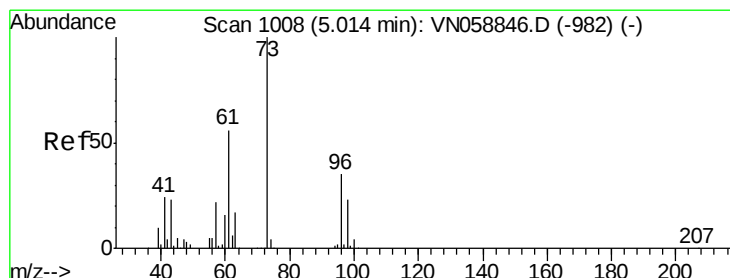
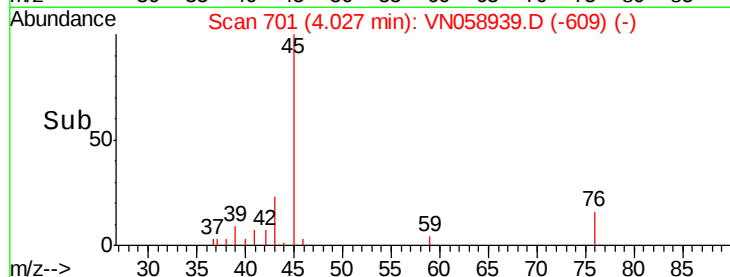
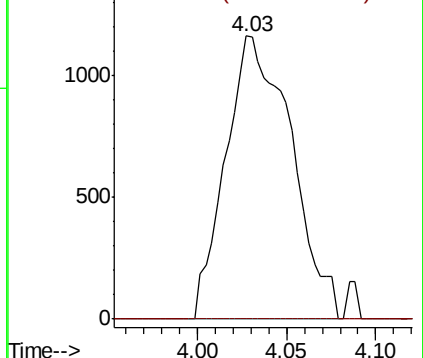
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#21

trans-1,2-Dichloroethene

Concen: 0.204 ug/l

RT: 5.01 min Scan# 1007

Delta R.T. -0.00 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

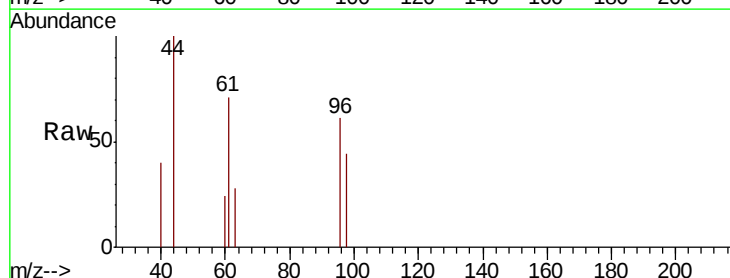
Tgt Ion: 96 Resp: 665

Ion Ratio Lower Upper

96 100

61 115.5 126.7 190.1#

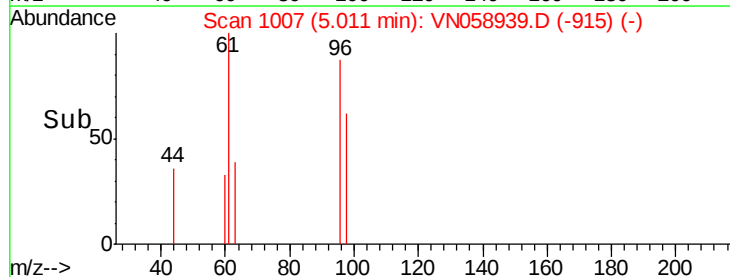
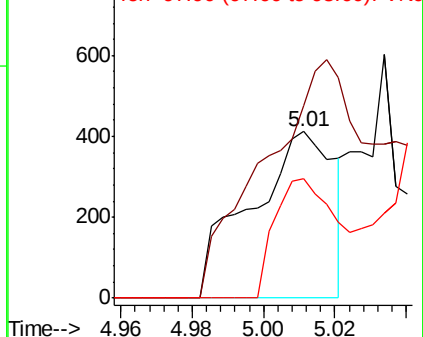
98 72.1 52.0 78.0

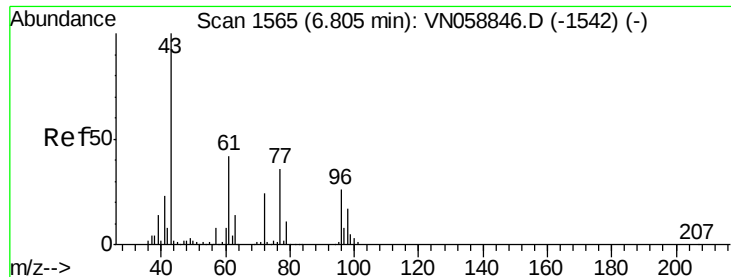


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 0.764 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

ClientSampled :

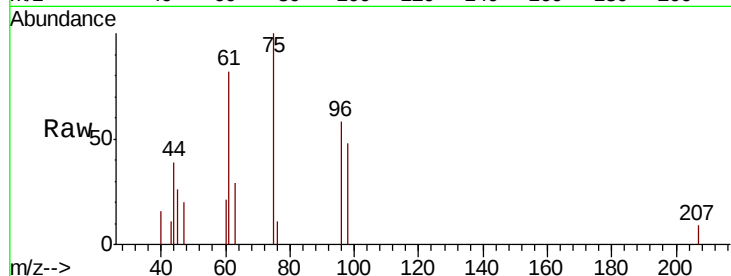
Tot Ion: 96 Resp: 2848

Ion Ratio Lower Upper

96 100

61 159.8 0.0 325.0

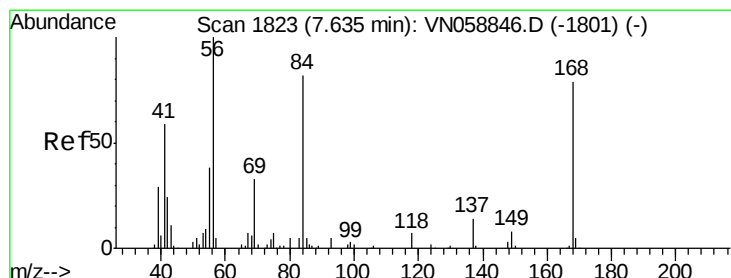
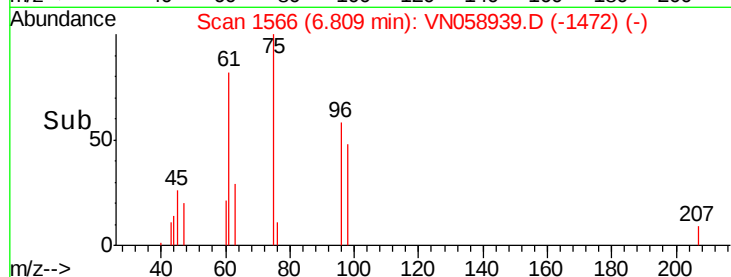
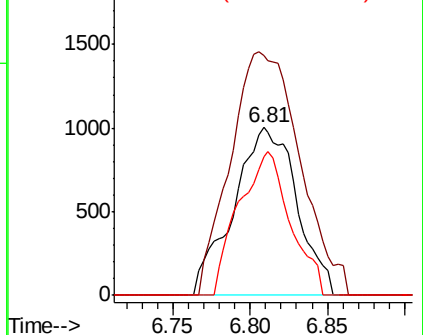
98 69.9 0.0 128.0



Abundance Ion 95.90 (95.60 to 96.60): VN058846.D (-1542) (-)

Ion 60.90 (60.60 to 61.60): VN058846.D (-1542) (-)

Ion 97.90 (97.60 to 98.60): VN058846.D (-1542) (-)



#31

Cyclohexane

Concen: 1.166 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

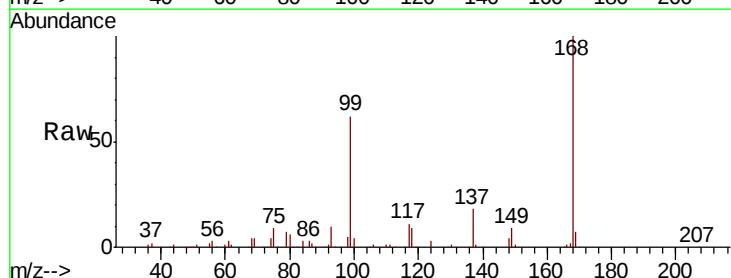
Tgt Ion: 56 Resp: 7364

Ion Ratio Lower Upper

56 100

69 159.6 26.2 39.4#

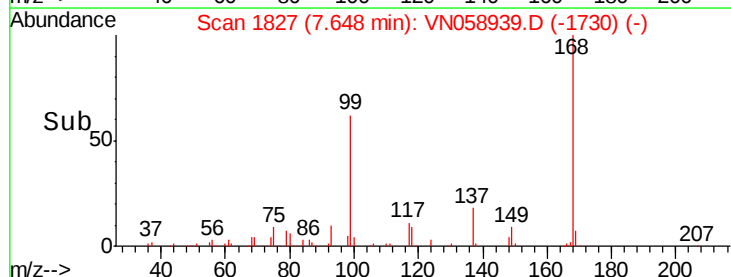
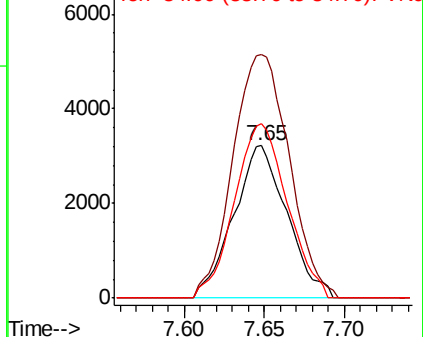
84 114.4 65.6 98.4#

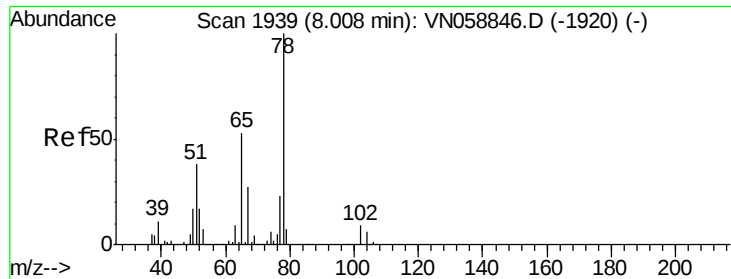


Abundance Ion 56.00 (55.70 to 56.70): VN058846.D (-1801) (-)

Ion 69.00 (68.70 to 69.70): VN058846.D (-1801) (-)

Ion 84.00 (83.70 to 84.70): VN058846.D (-1801) (-)

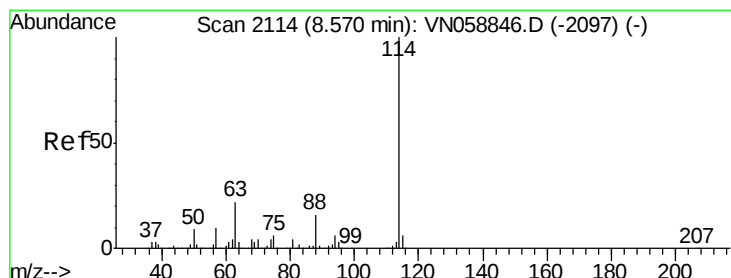
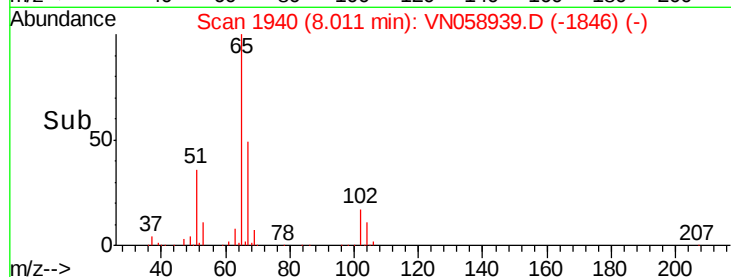
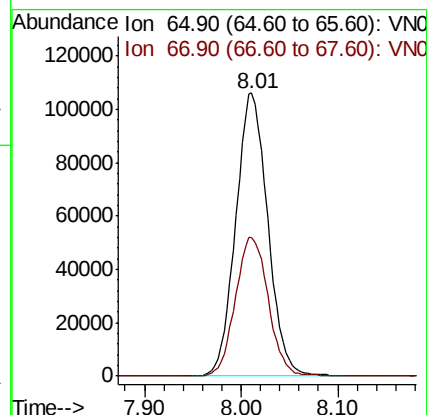
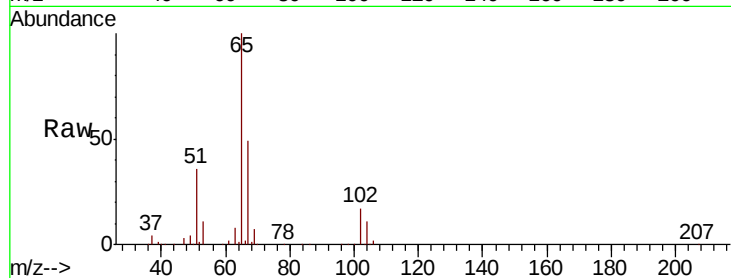




#33
 1,2-Dichloroethane-d4
 Concen: 55.620 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058939.D
 Acq: 23 Oct 2019 18:42

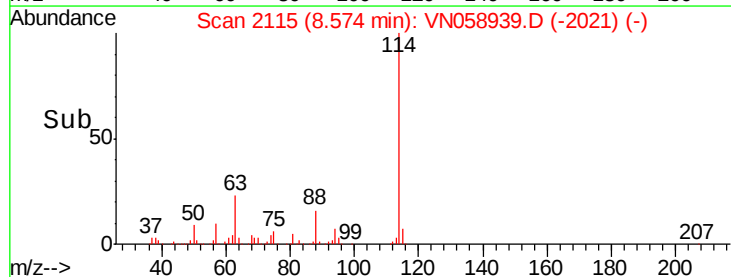
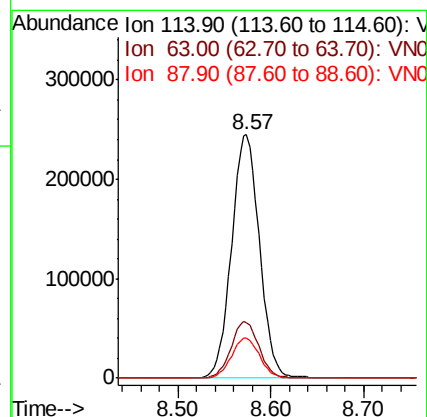
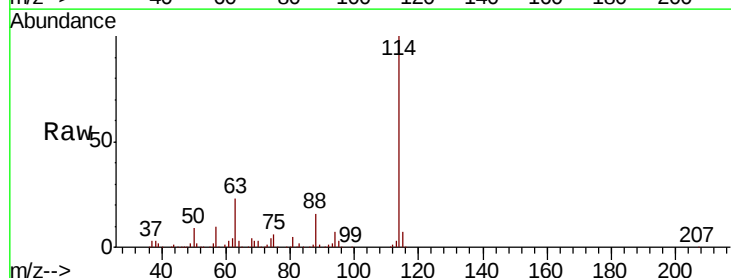
Instrument :
 MSVOA_N
 ClientSampled :

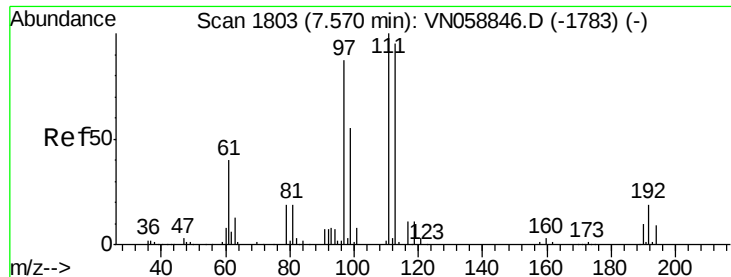
Tot Ion: 65 Resp: 244470
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 103.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058939.D
 Acq: 23 Oct 2019 18:42

Tgt Ion: 114 Resp: 510281
 Ion Ratio Lower Upper
 114 100
 63 23.0 0.0 44.4
 88 16.2 0.0 31.4

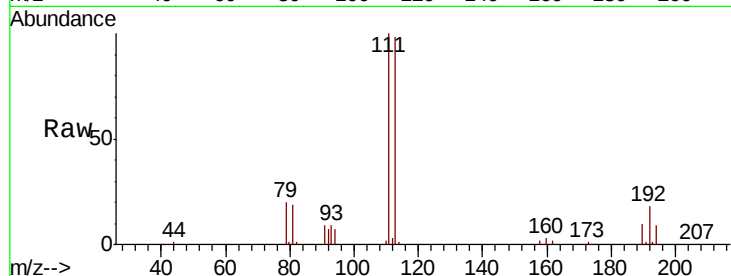




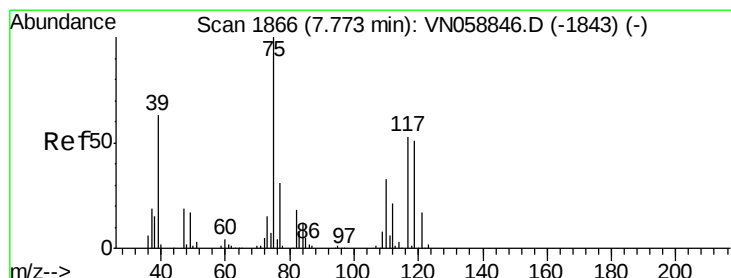
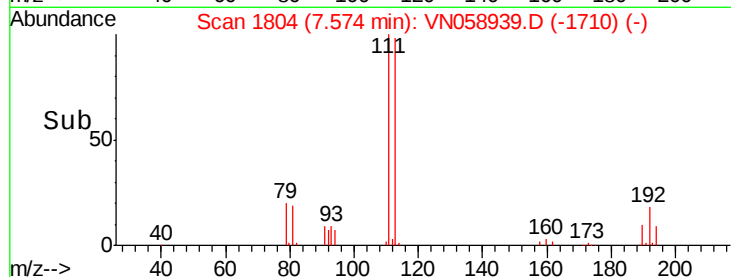
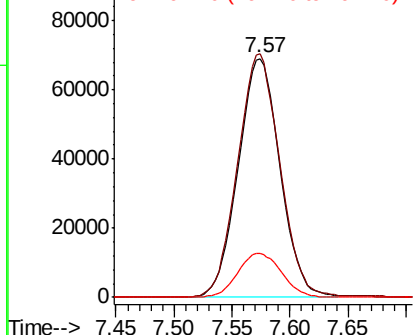
#35
Dibromofluoromethane
Concen: 51.669 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058939.D
Acq: 23 Oct 2019 18:42

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:113 Resp: 173347
Ion Ratio Lower Upper
113 100
111 103.2 82.0 123.0
192 19.3 15.0 22.6

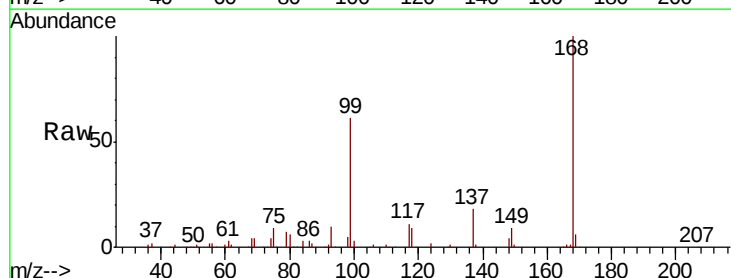


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

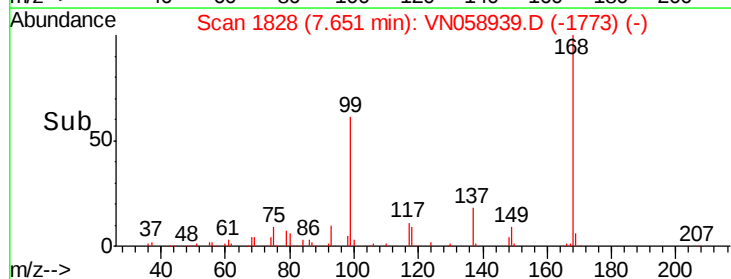
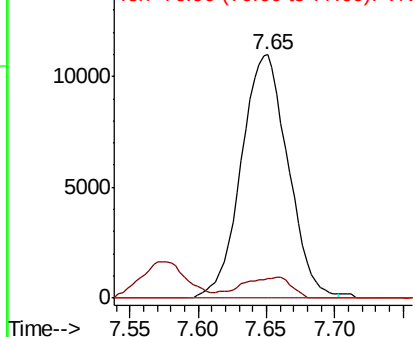


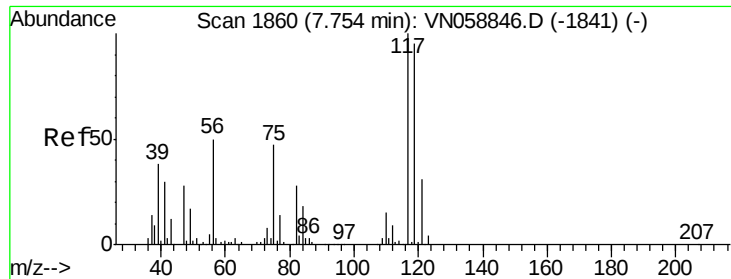
#36
1,1-Dichloropropene
Concen: 5.008 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.12 min
Lab File: VN058939.D
Acq: 23 Oct 2019 18:42

Tgt Ion: 75 Resp: 26162
Ion Ratio Lower Upper
75 100
110 8.6 16.3 48.9#
77 0.0 24.6 36.8#



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





#38

Carbon Tetrachloride

Concen: 5.679 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

ClientSampled :

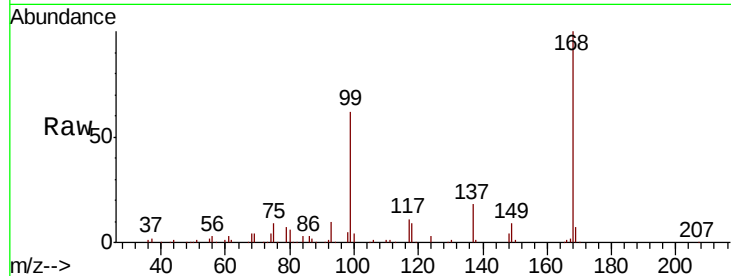
Tot Ion:117 Resp: 30562

Ion Ratio Lower Upper

117 100

119 3.7 75.7 113.5#

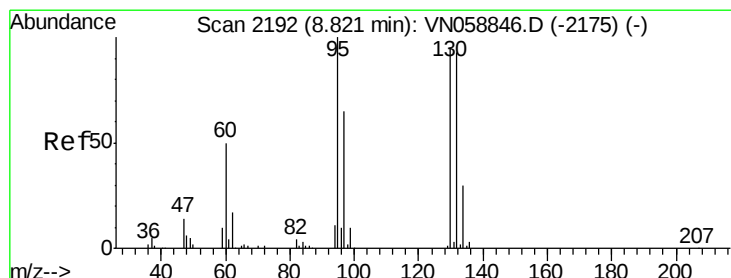
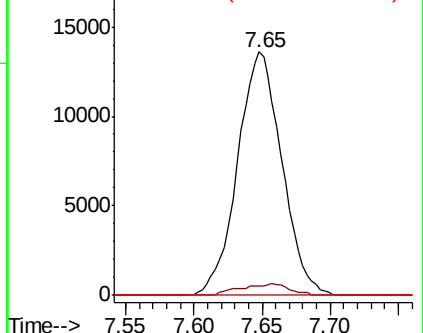
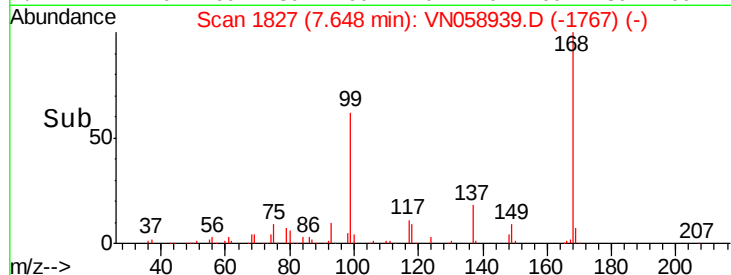
121 0.0 25.0 37.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#44

Trichloroethene

Concen: 0.309 ug/l

RT: 8.83 min Scan# 2194

Delta R.T. 0.01 min

Lab File: VN058939.D

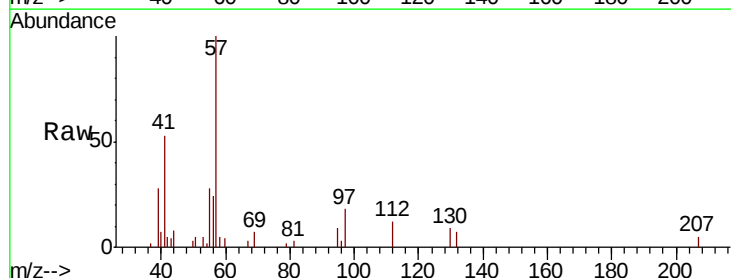
Acq: 23 Oct 2019 18:42

Tgt Ion:130 Resp: 1153

Ion Ratio Lower Upper

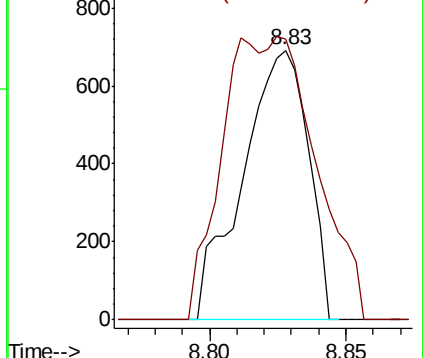
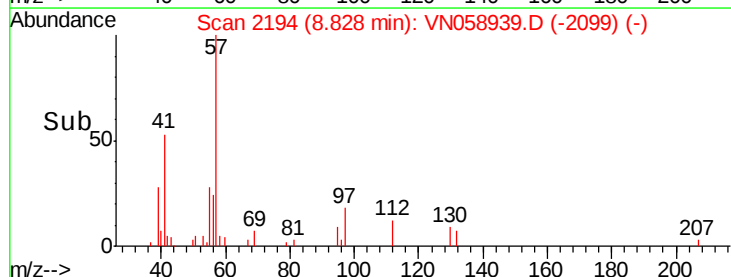
130 100

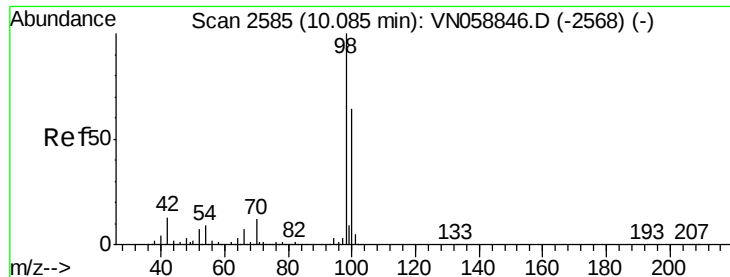
95 104.2 0.0 209.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 47.004 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

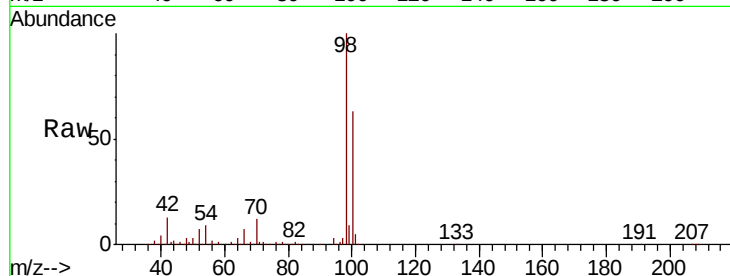
ClientSampleId :

Tot Ion: 98 Resp: 612156

Ion Ratio Lower Upper

98 100

100 63.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

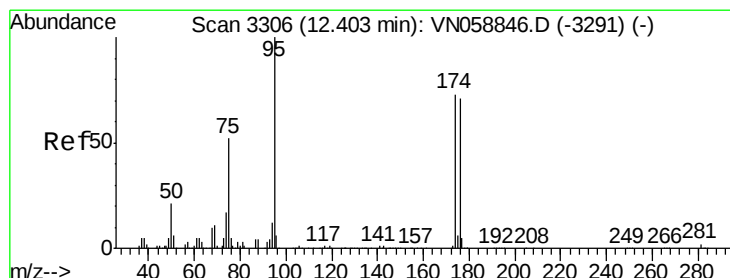
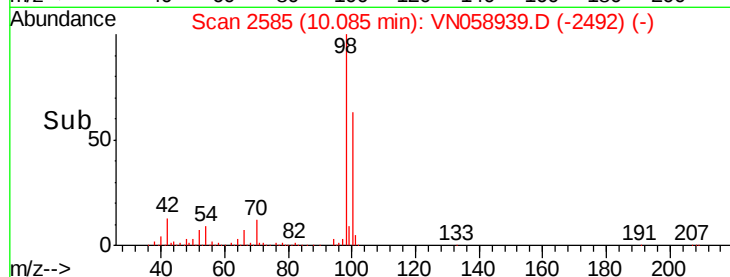
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 41.202 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

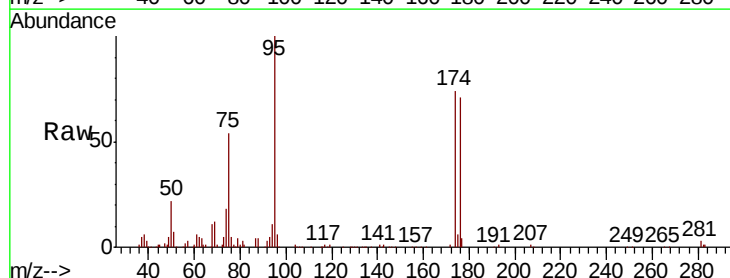
Tgt Ion: 95 Resp: 197050

Ion Ratio Lower Upper

95 100

174 76.4 0.0 147.6

176 73.4 0.0 143.2



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

12.40

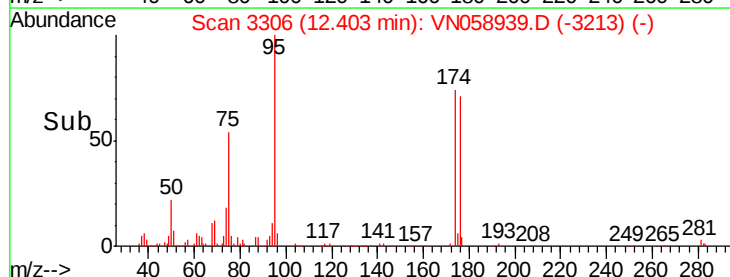
150000

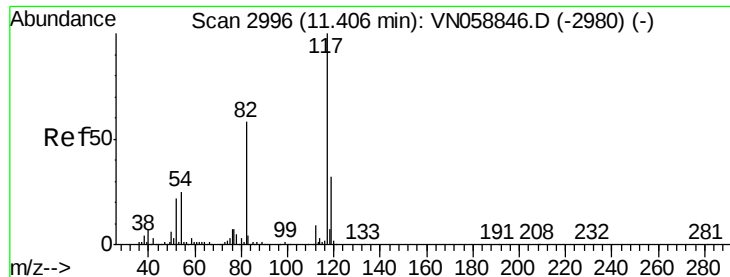
100000

50000

0

Time-->

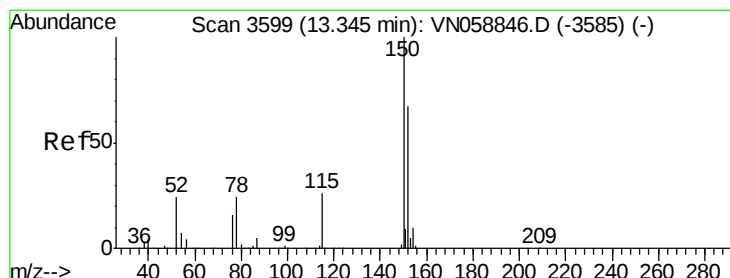
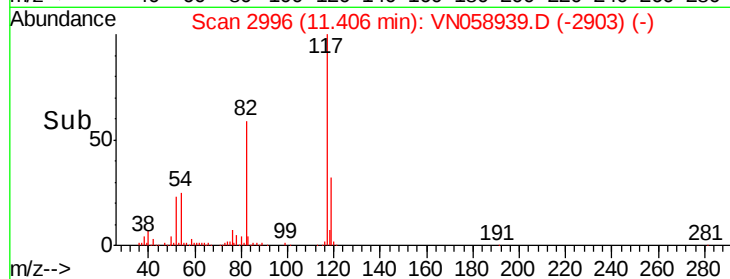
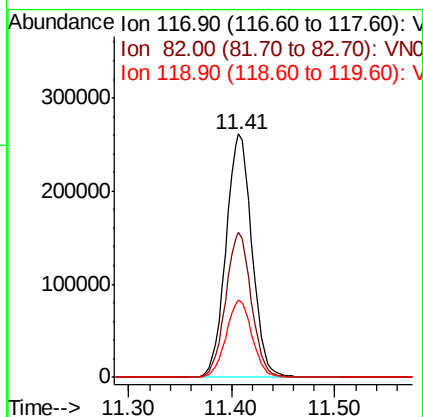
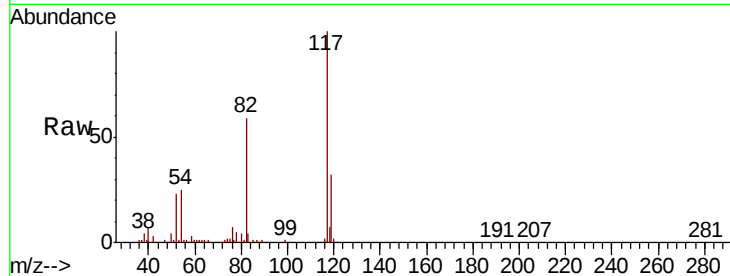




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058939.D
Acq: 23 Oct 2019 18:42

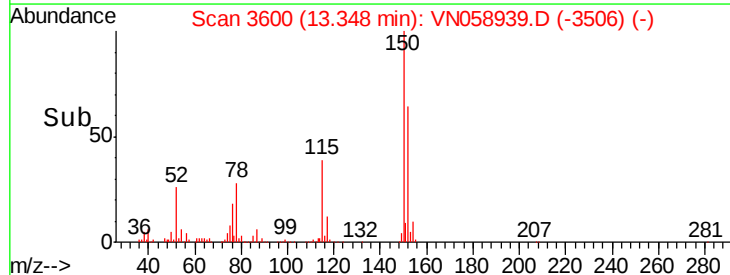
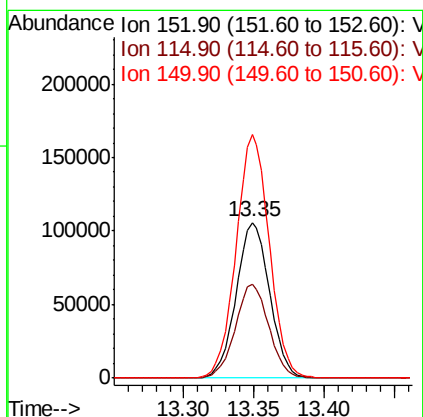
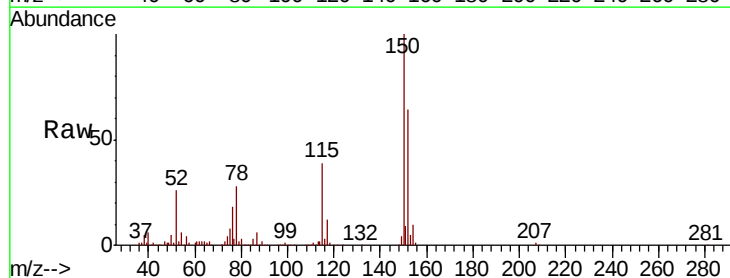
Instrument :
MSVOA_N
ClientSampleId :

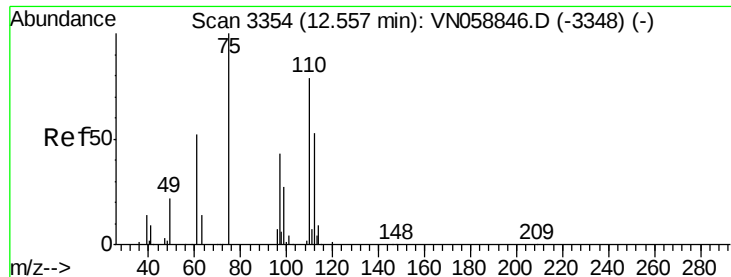
Tot Ion:117 Resp: 457690
Ion Ratio Lower Upper
117 100
82 59.5 46.6 69.8
119 31.8 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058939.D
Acq: 23 Oct 2019 18:42

Tgt Ion:152 Resp: 176206
Ion Ratio Lower Upper
152 100
115 60.4 30.5 91.5
150 155.1 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 26.408 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

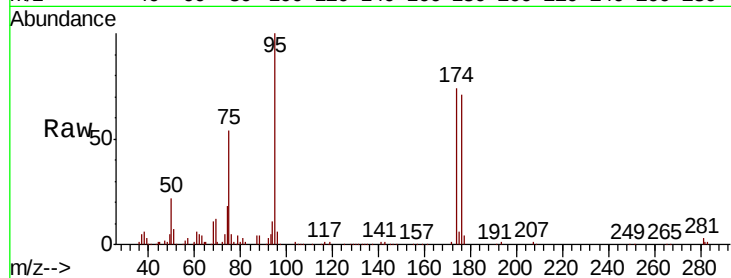
ClientSampleId :

Tot Ion: 75 Resp: 107846

Ion Ratio Lower Upper

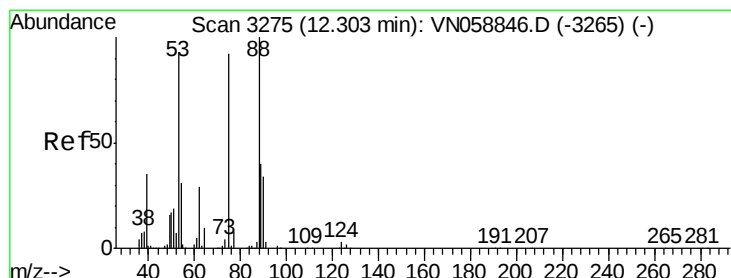
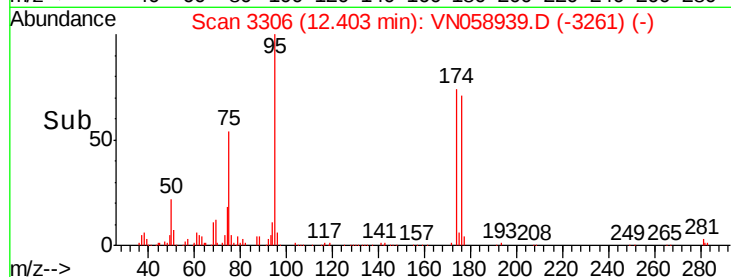
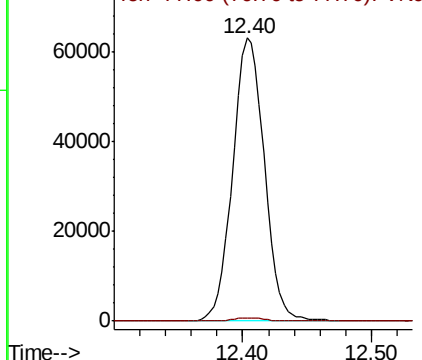
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 68.796 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

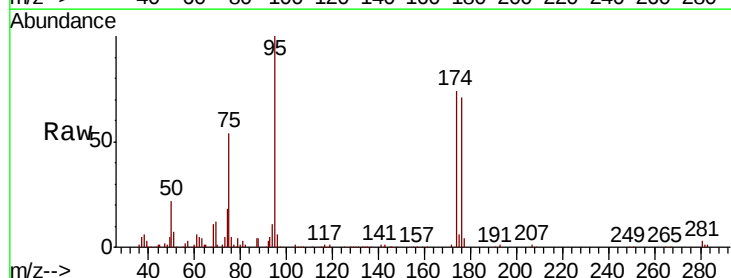
Tgt Ion: 75 Resp: 107846

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

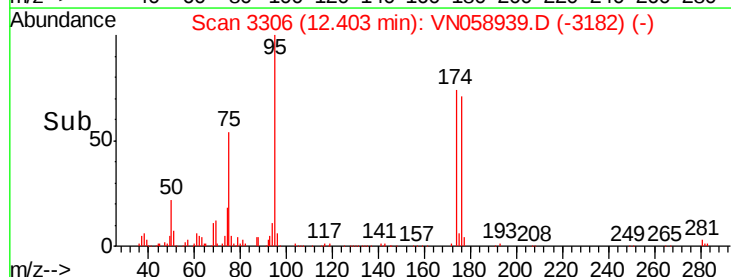
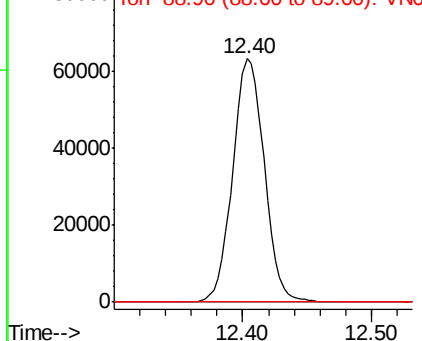
89 0.0 35.4 53.0#

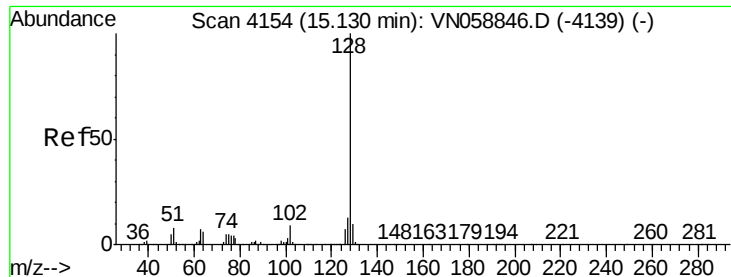


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 2.248 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058939.D

Acq: 23 Oct 2019 18:42

Instrument :

MSVOA_N

ClientSampleId :

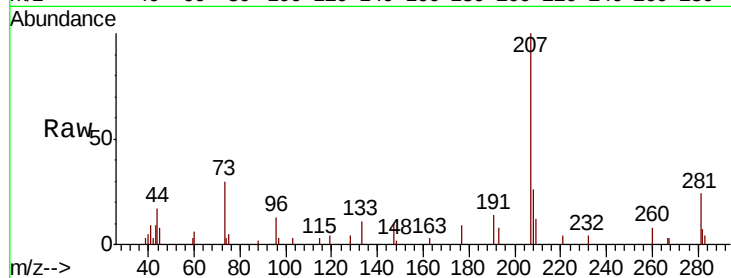
Tot Ion:128 Resp: 243

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

