

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN110119\
 Data File : VN059063.D
 Acq On : 1 Nov 2019 15:37
 Operator : JC/SP
 Sample : K5626-10DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 02 06:04:57 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	7.65	168	427393	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	656187	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	568818	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	212441	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	290942	51.40	ug/l	0.00
Spiked Amount			Recovery	=	102.80%	
35) Dibromofluoromethane	7.57	113	215284	50.86	ug/l	0.00
Spiked Amount			Recovery	=	101.72%	
50) Toluene-d8	10.08	98	854030	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	12.40	95	276874	46.73	ug/l	0.00
Spiked Amount			Recovery	=	93.46%	

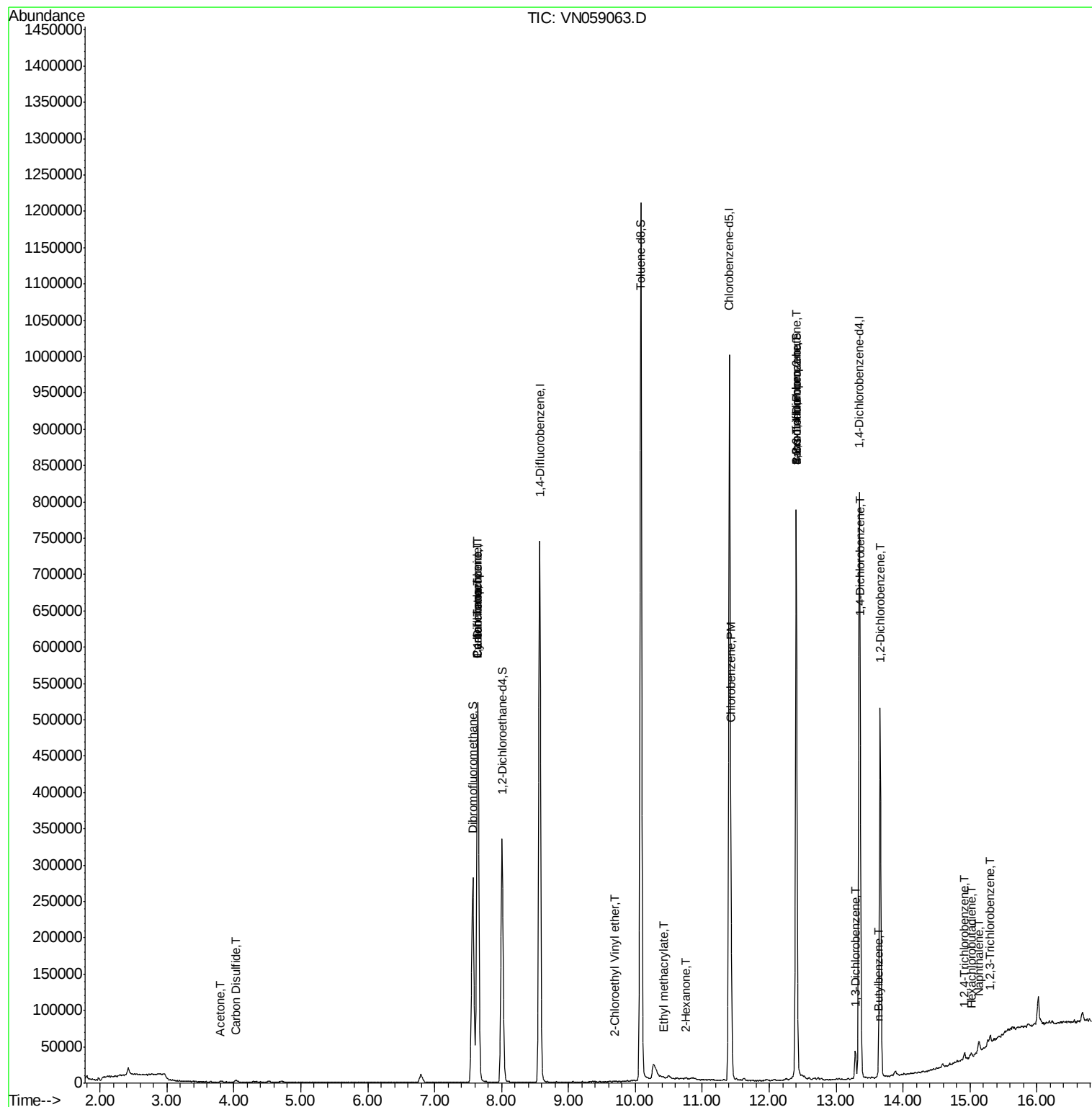
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	1030	0.359	ug/l #	88
17) Carbon Disulfide	4.02	76	4534	0.337	ug/l #	77
31) Cyclohexane	7.64	56	9013	1.034	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	33398	5.121	ug/l #	49
38) Carbon Tetrachloride	7.64	117	40194	6.324	ug/l #	17
56) Ethyl methacrylate	10.43	69	93	1.861	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.69	63	33	11.432	ug/l #	51
59) 2-Hexanone	10.75	43	1516	0.303	ug/l	95
65) Chlorobenzene	11.43	112	74632	6.393	ug/l	100
71) Bromoform	12.41	173	1717	0.516	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	138471	27.544	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	138471	70.610	ug/l #	14
87) 1,3-Dichlorobenzene	13.29	146	15150	2.182	ug/l	99
88) 1,4-Dichlorobenzene	13.37	146	40785	5.938	ug/l	94
89) n-Butylbenzene	13.62	91	2390	0.206	ug/l	92
91) 1,2-Dichlorobenzene	13.66	146	215483	31.190	ug/l	99
93) 1,2,4-Trichlorobenzene	14.92	180	3039	0.816	ug/l	88
94) Hexachlorobutadiene	15.01	225	538	0.241	ug/l #	49
95) Naphthalene	15.13	128	9981	3.794	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	3582	0.945	ug/l	96

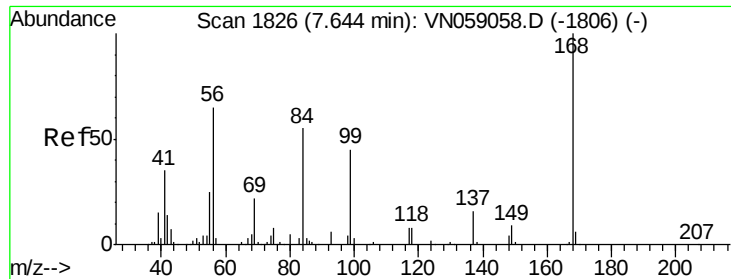
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

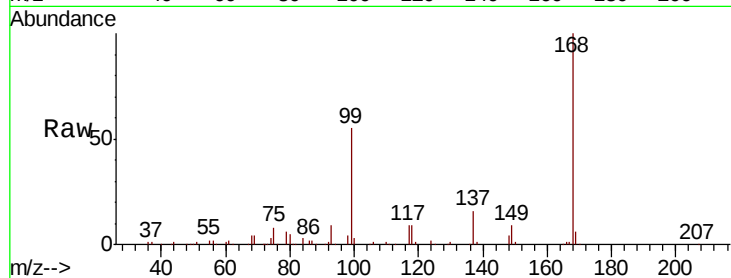
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 427393

Ion Ratio Lower Upper

168 100

99 55.3 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

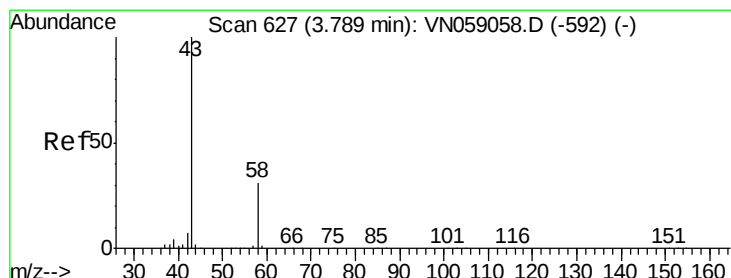
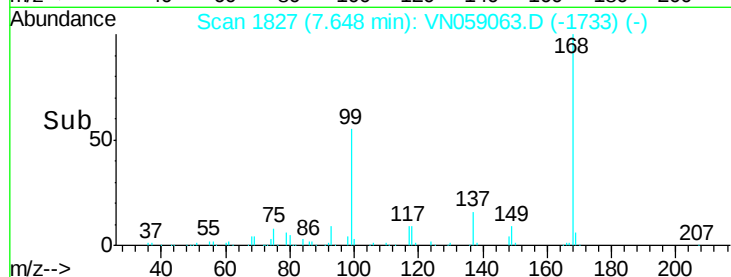
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 0.359 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN059063.D

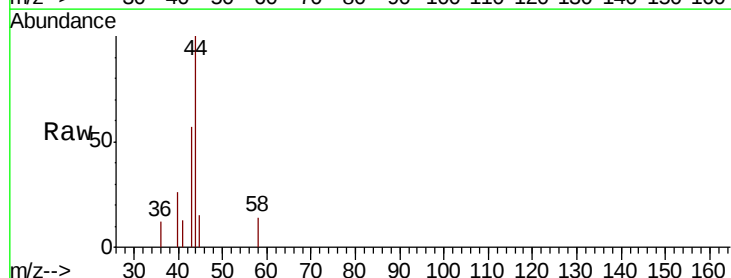
Acq: 1 Nov 2019 15:37

Tgt Ion: 43 Resp: 1030

Ion Ratio Lower Upper

43 100

58 24.5 25.0 37.6#



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.79

800

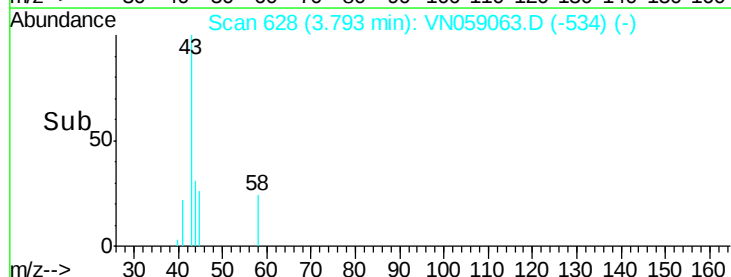
600

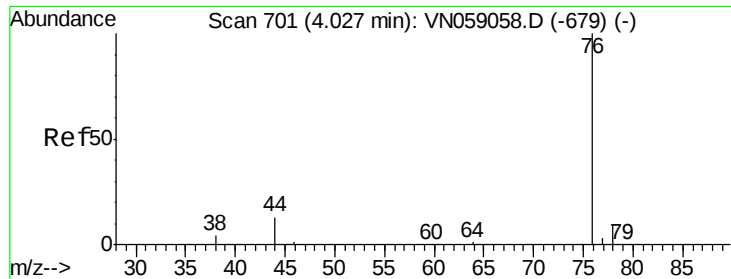
400

200

0

Time--> 3.74 3.76 3.78 3.80





#17

Carbon Disulfide

Concen: 0.337 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.00 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

Instrument :

MSVOA_N

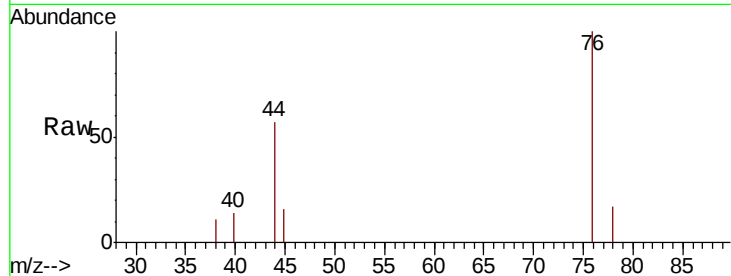
ClientSampleId :

Tot Ion: 76 Resp: 4534

Ion Ratio Lower Upper

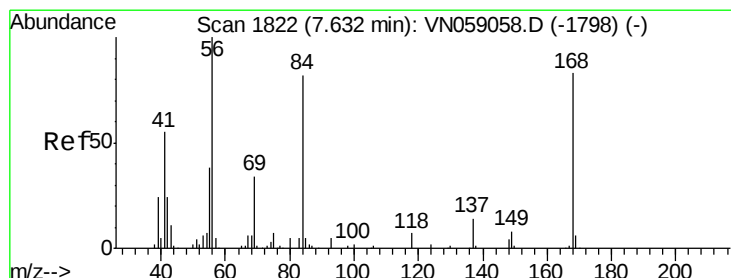
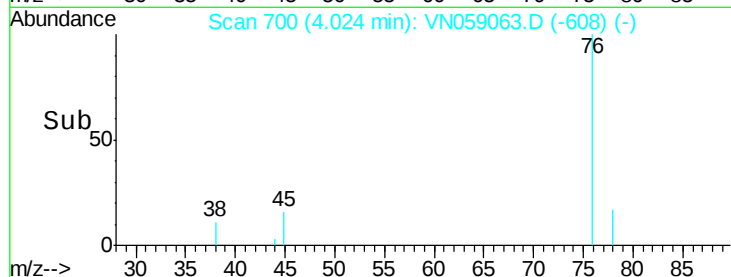
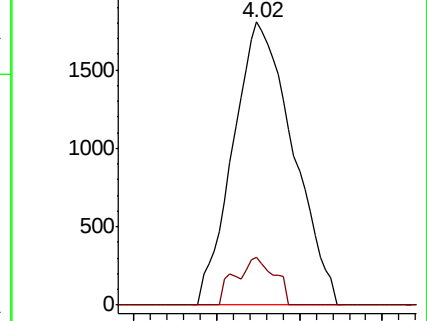
76 100

78 17.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO



#31

Cyclohexane

Concen: 1.034 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

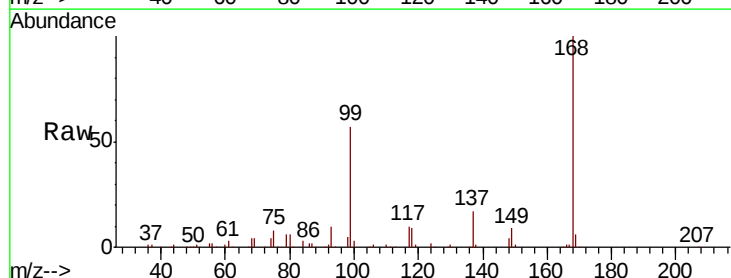
Tgt Ion: 56 Resp: 9013

Ion Ratio Lower Upper

56 100

69 175.0 27.2 40.8#

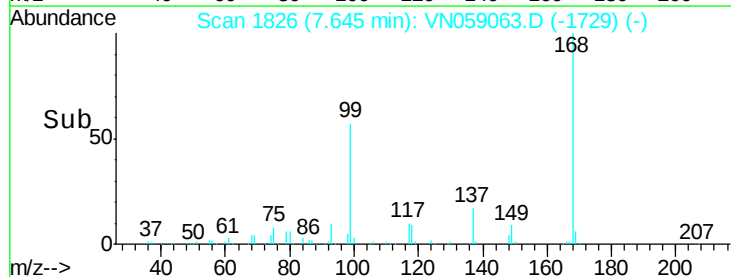
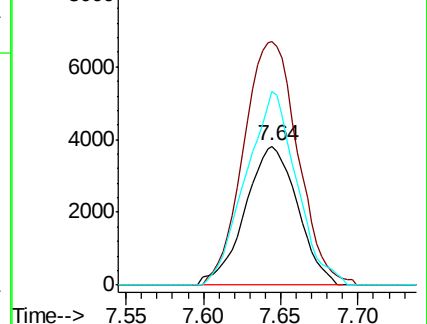
84 139.1 65.2 97.8#

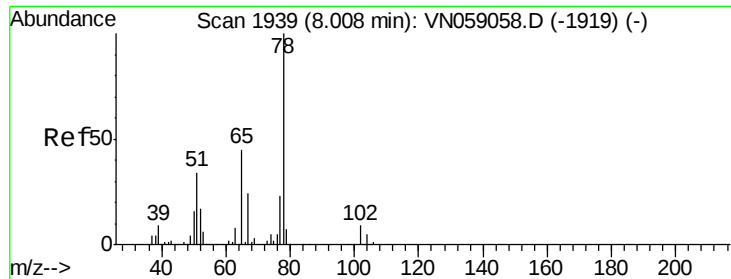


Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 84.00 (83.70 to 84.70): VNO

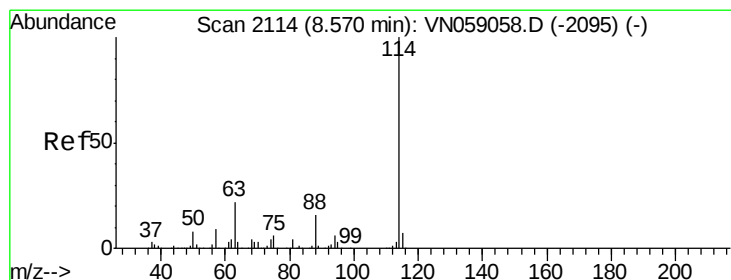
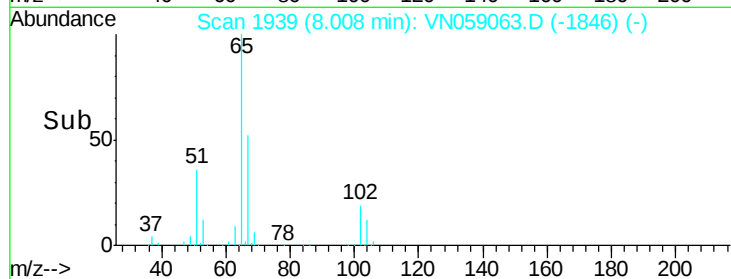
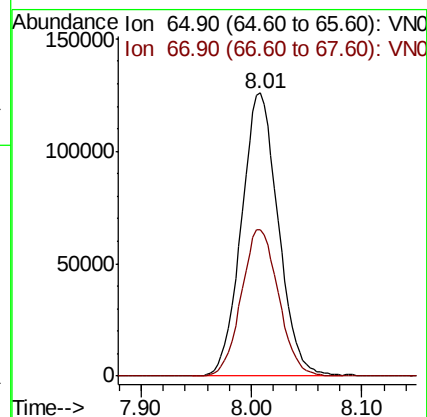
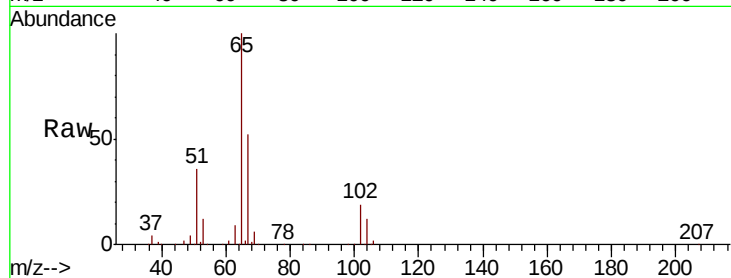




#33
 1,2-Dichloroethane-d4
 Concen: 51.400 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059063.D
 Acq: 1 Nov 2019 15:37

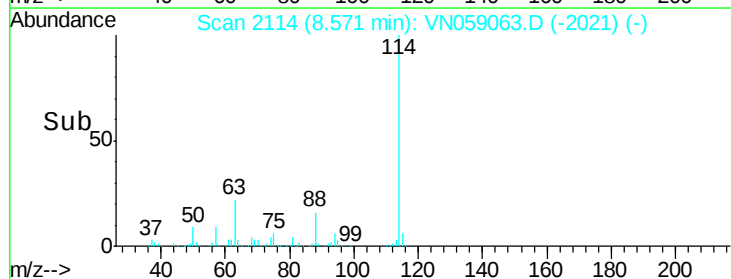
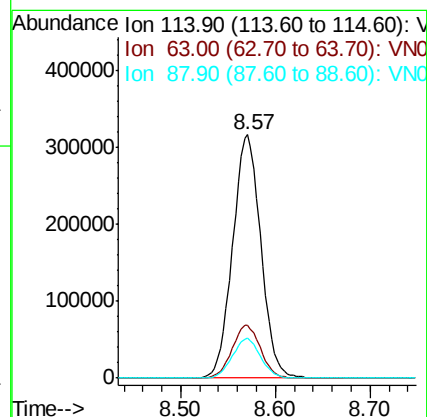
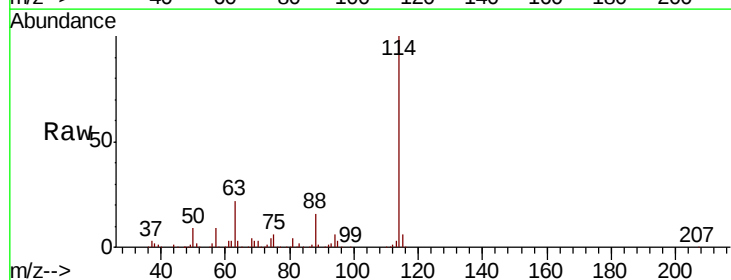
Instrument :
 MSVOA_N
 ClientSampled :

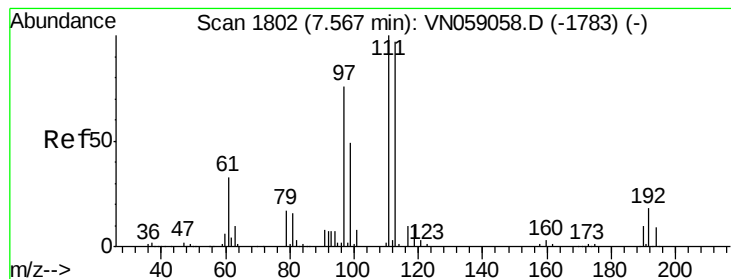
Tot Ion: 65 Resp: 290942
 Ion Ratio Lower Upper
 65 100
 67 52.4 0.0 107.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059063.D
 Acq: 1 Nov 2019 15:37

Tgt Ion: 114 Resp: 656187
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.2
 88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.856 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

Instrument :
MSVOA_N
ClientSampleId :

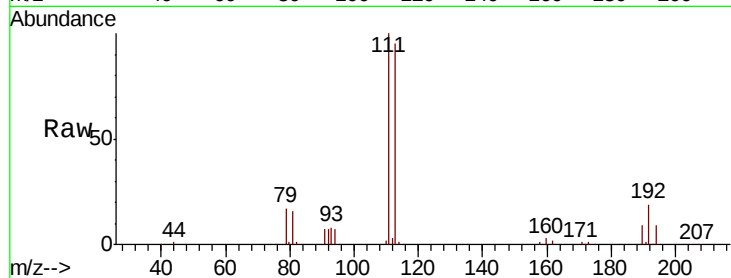
Tot Ion:113 Resp: 215284

Ion Ratio Lower Upper

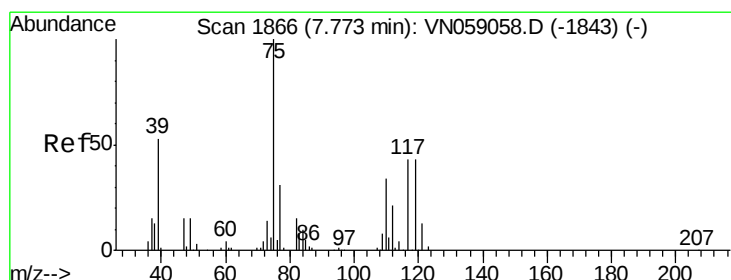
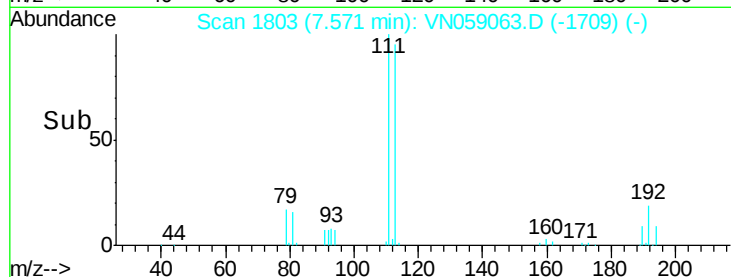
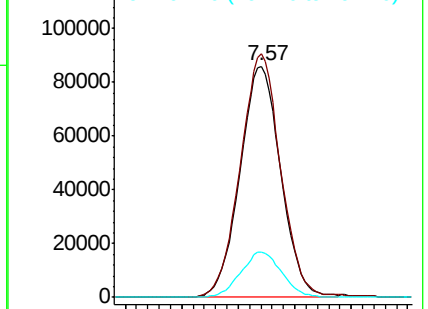
113 100

111 105.0 82.9 124.3

192 19.7 15.9 23.9



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: 5.121 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

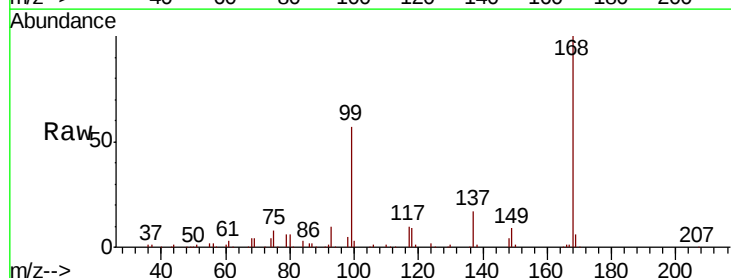
Tgt Ion: 75 Resp: 33398

Ion Ratio Lower Upper

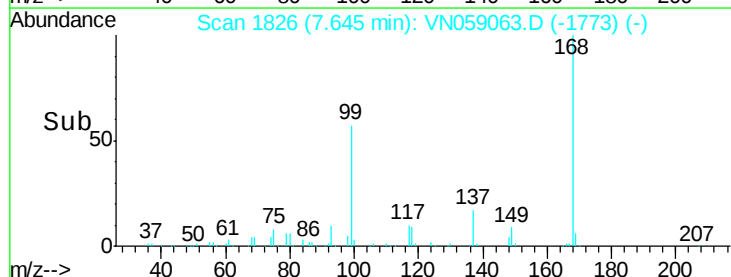
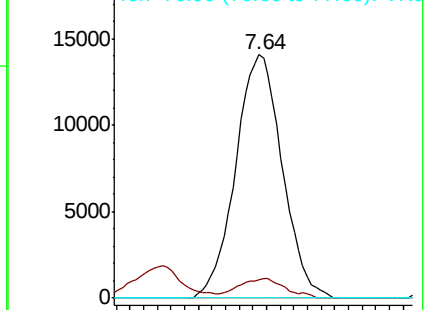
75 100

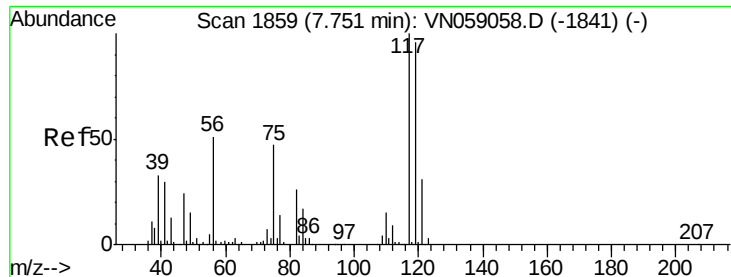
110 8.1 16.9 50.6#

77 0.0 25.0 37.4#



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

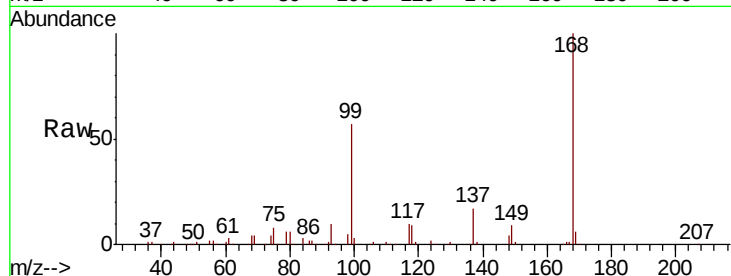




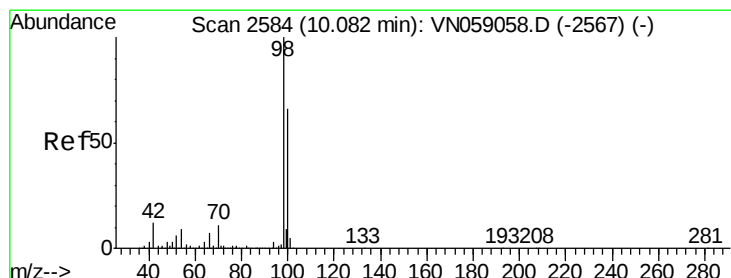
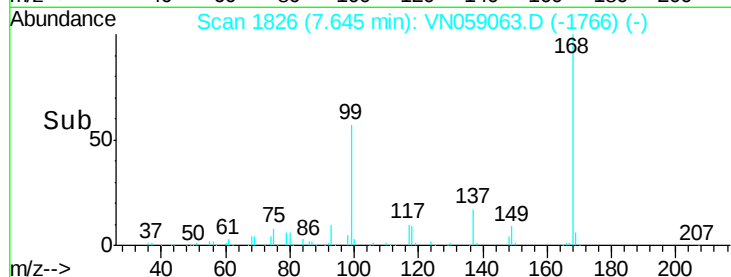
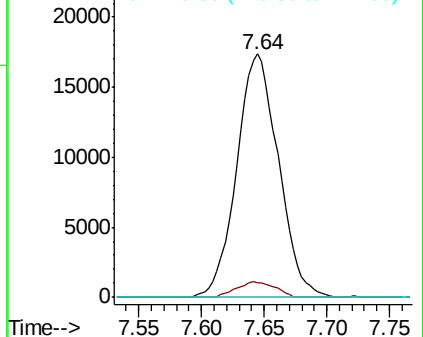
#38
Carbon Tetrachloride
Concen: 6.324 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 40194
Ion Ratio Lower Upper
117 100
119 6.2 76.6 114.8#
121 0.0 24.6 37.0#

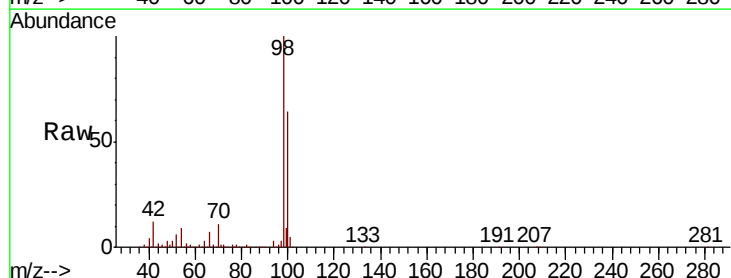


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

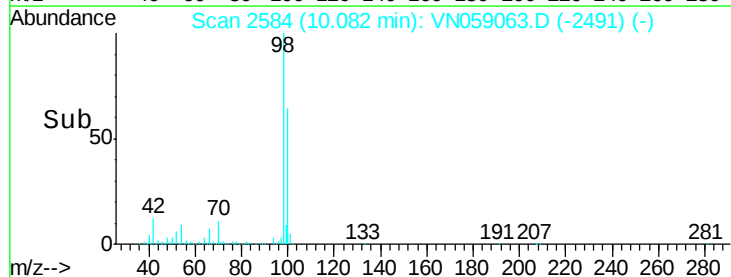
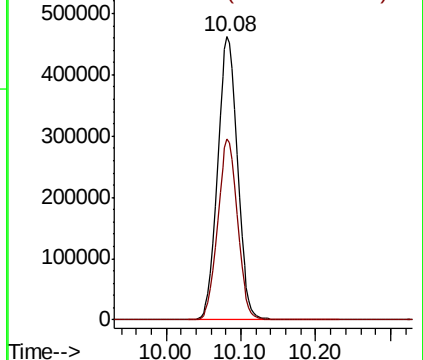


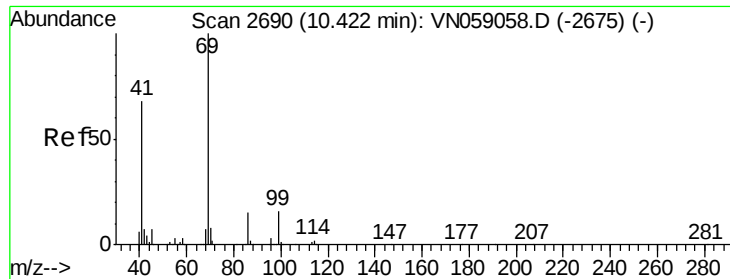
#50
Toluene-d8
Concen: 51.819 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

Tgt Ion: 98 Resp: 854030
Ion Ratio Lower Upper
98 100
100 63.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V
Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 1.861 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

Instrument :

MSVOA_N

ClientSampled :

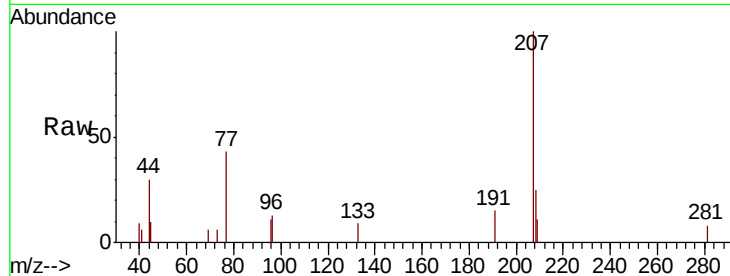
Tot Ion: 69 Resp: 93

Ion Ratio Lower Upper

69 100

41 217.2 53.8 80.8#

39 0.0 26.2 39.2#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

250

200

150

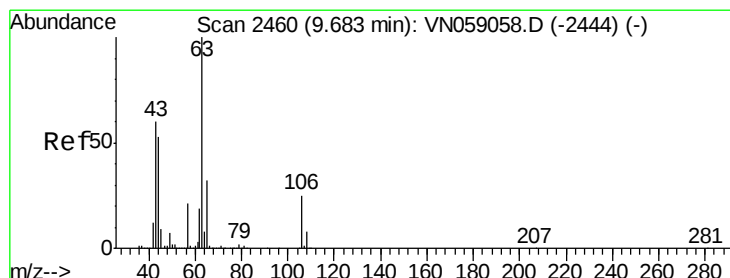
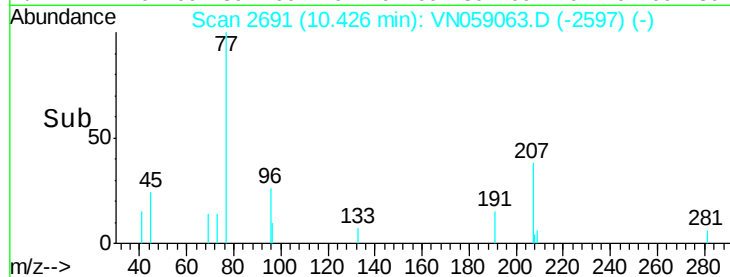
100

50

0

10.41 10.42 10.43 10.44

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 11.432 ug/l

RT: 9.69 min Scan# 2462

Delta R.T. 0.01 min

Lab File: VN059063.D

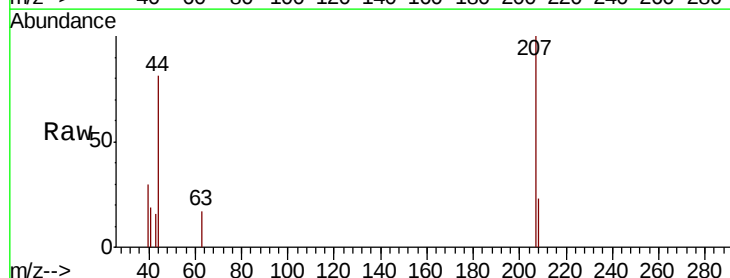
Acq: 1 Nov 2019 15:37

Tgt Ion: 63 Resp: 33

Ion Ratio Lower Upper

63 100

106 0.0 19.8 29.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

200

150

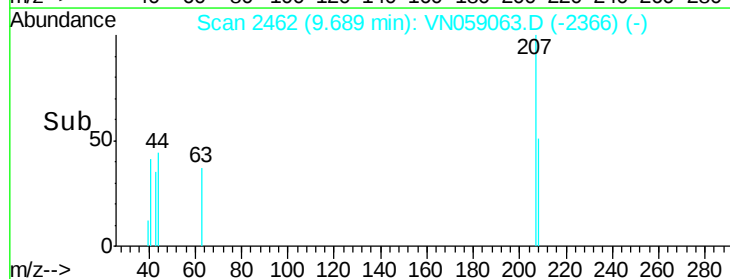
100

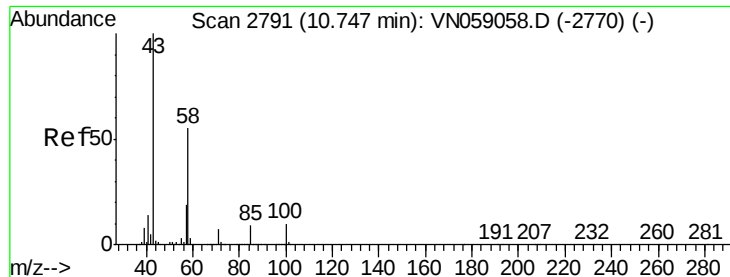
50

0

9.68 9.69 9.69 9.70 9.70

Time-->

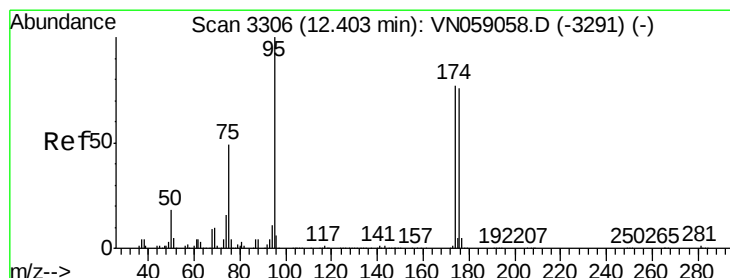
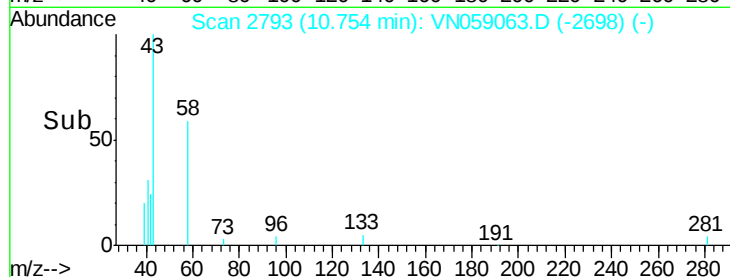
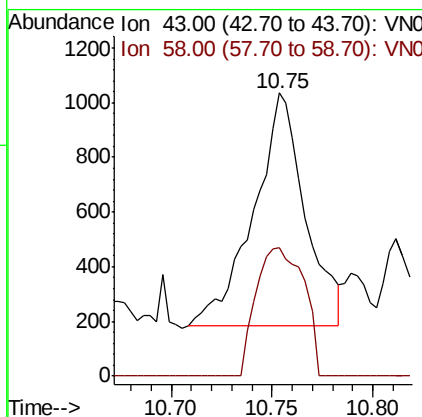
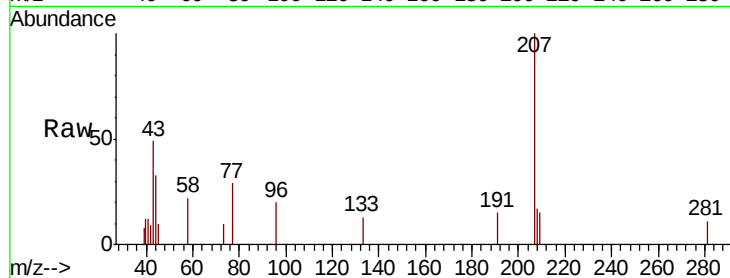




#59
2-Hexanone
Concen: 0.303 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

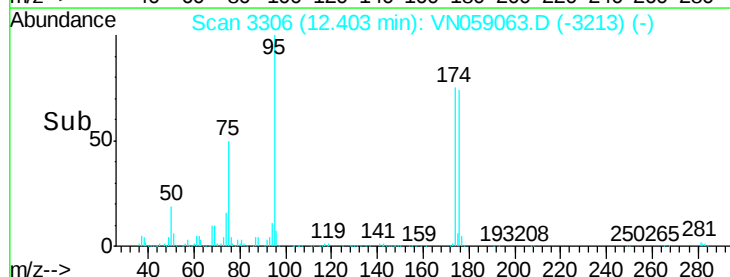
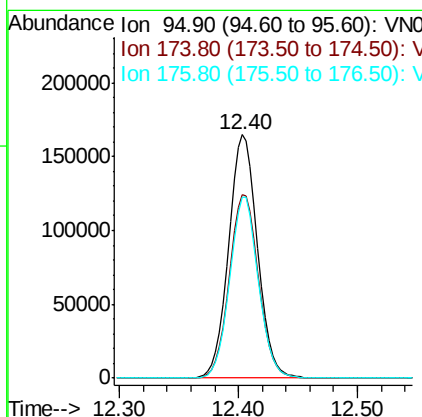
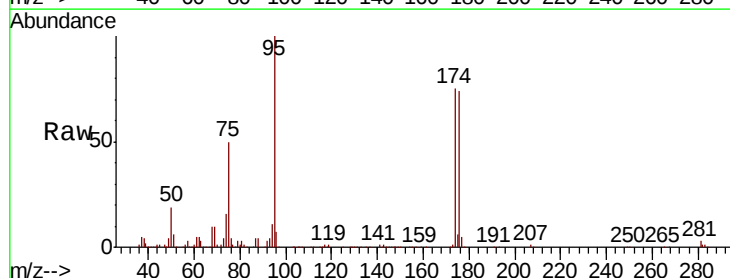
Instrument :
MSVOA_N
ClientSampled :

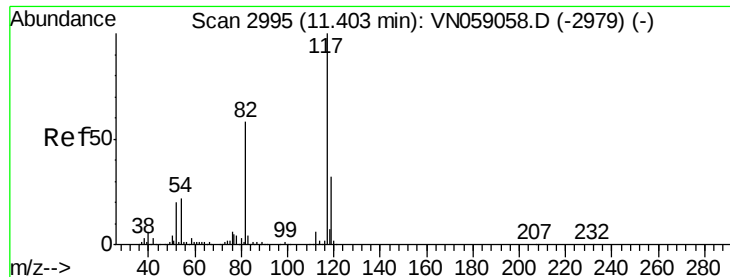
Tot Ion: 43 Resp: 1516
Ion Ratio Lower Upper
43 100
58 50.9 27.4 82.2



#62
4-Bromofluorobenzene
Concen: 46.734 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

Tgt Ion: 95 Resp: 276874
Ion Ratio Lower Upper
95 100
174 76.5 0.0 155.8
176 73.9 0.0 151.6

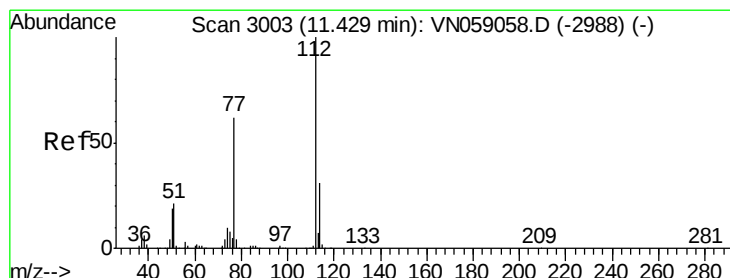
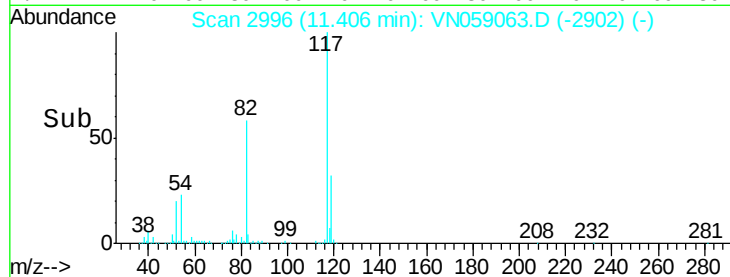
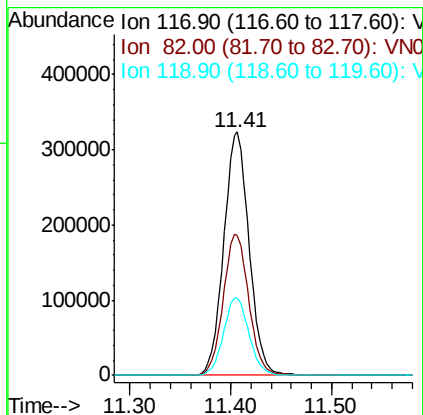
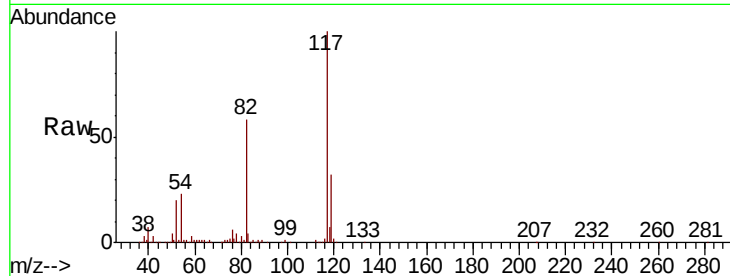




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

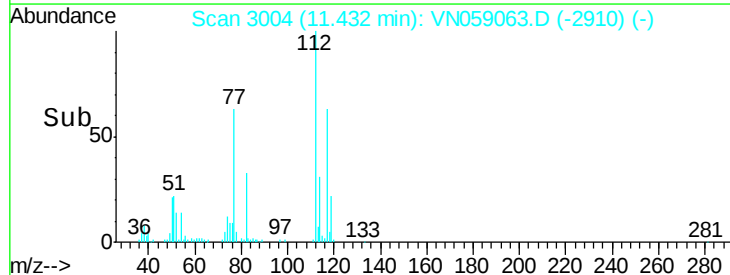
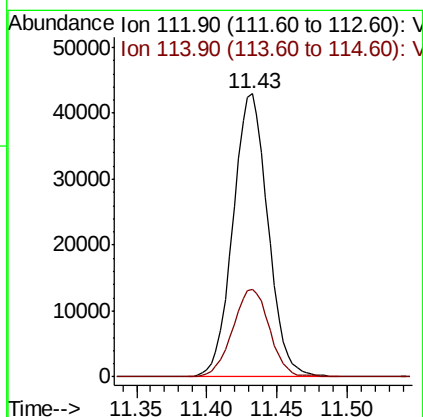
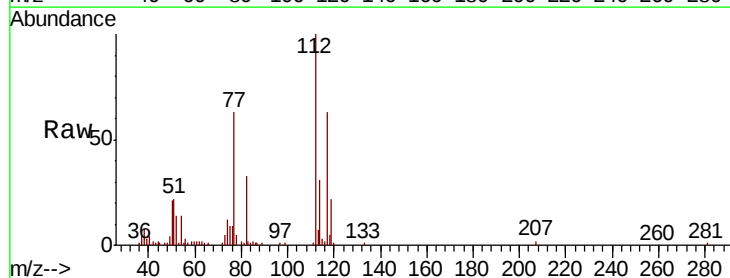
Instrument :
MSVOA_N
ClientSampled :

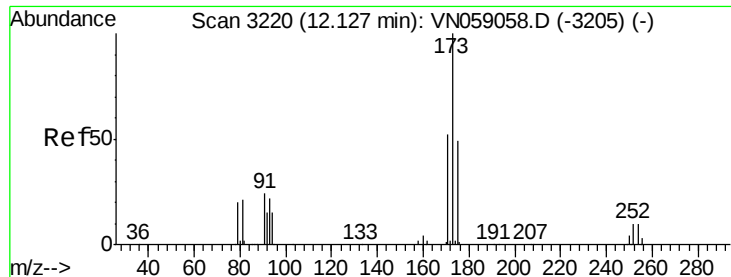
Tot Ion:117 Resp: 568818
Ion Ratio Lower Upper
117 100
82 57.7 46.0 69.0
119 31.9 25.6 38.4



#65
Chlorobenzene
Concen: 6.393 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

Tgt Ion:112 Resp: 74632
Ion Ratio Lower Upper
112 100
114 31.0 25.0 37.6





#71

Bromoform

Concen: 0.516 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

Instrument :

MSVOA_N

ClientSampleId :

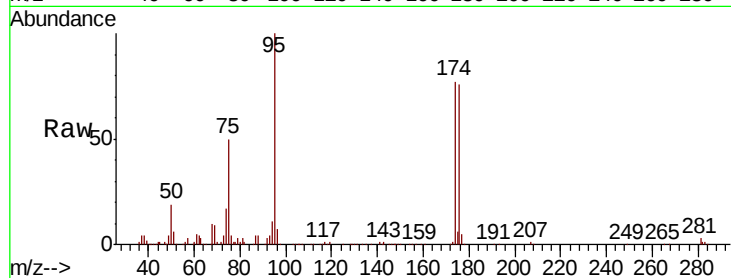
Tot Ion:173 Resp: 1717

Ion Ratio Lower Upper

173 100

175 757.0 24.4 73.2#

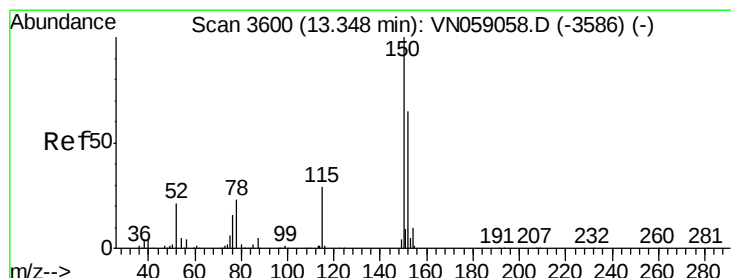
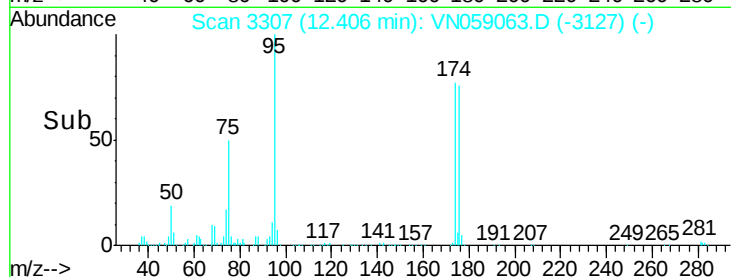
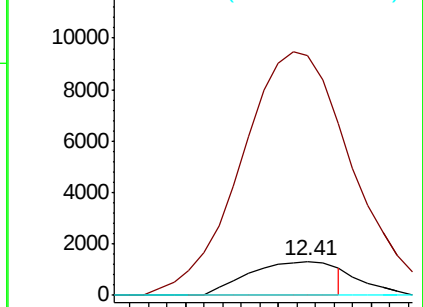
254 0.0 0.1 0.1#



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: VN059063.D

Acq: 1 Nov 2019 15:37

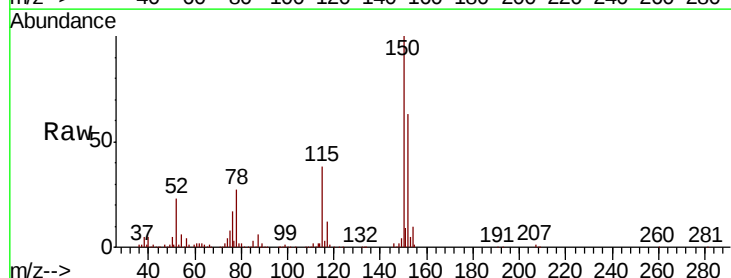
Tgt Ion:152 Resp: 212441

Ion Ratio Lower Upper

152 100

115 60.2 29.6 88.9

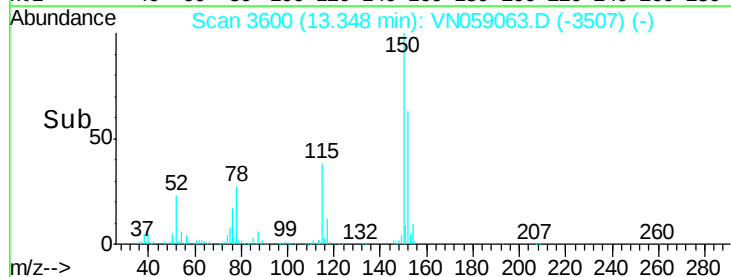
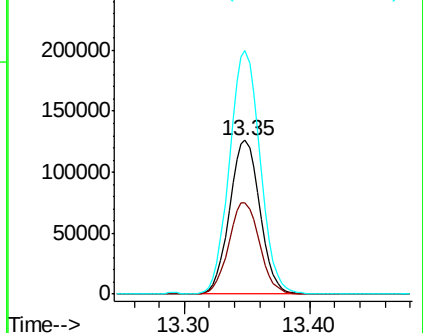
150 158.8 0.0 345.8

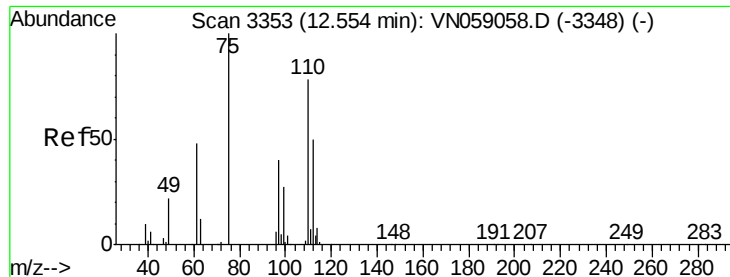


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.544 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

Instrument :

MSVOA_N

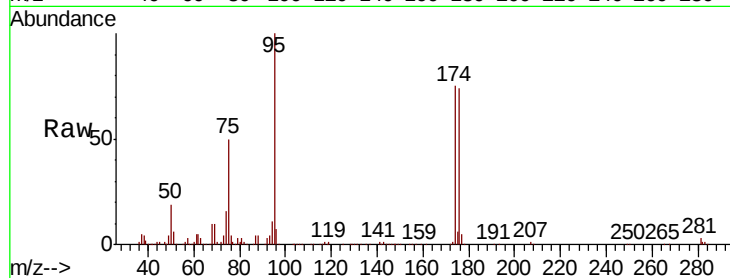
ClientSampleId :

Tot Ion: 75 Resp: 138471

Ion Ratio Lower Upper

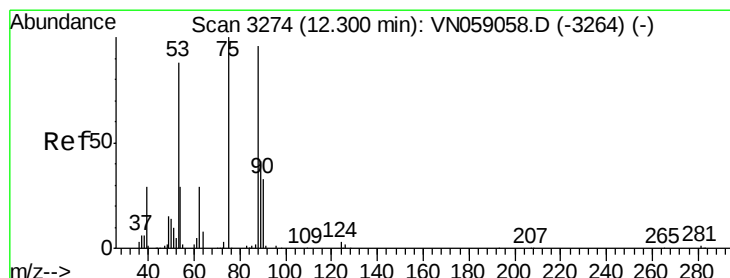
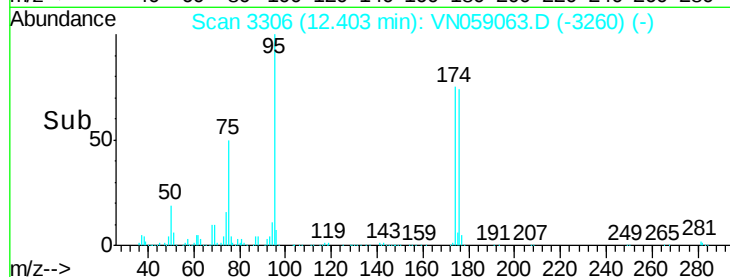
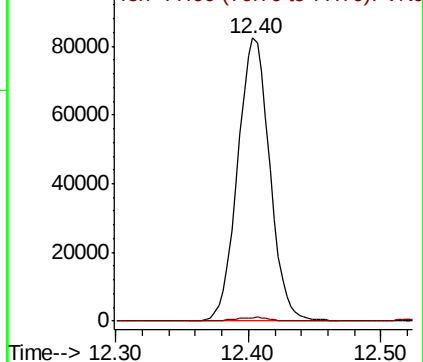
75 100

77 1.5 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: 70.610 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

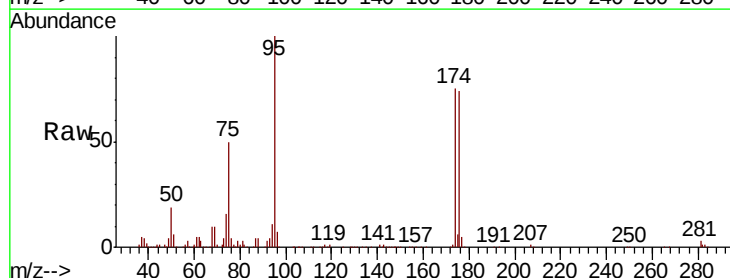
Tgt Ion: 75 Resp: 138471

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

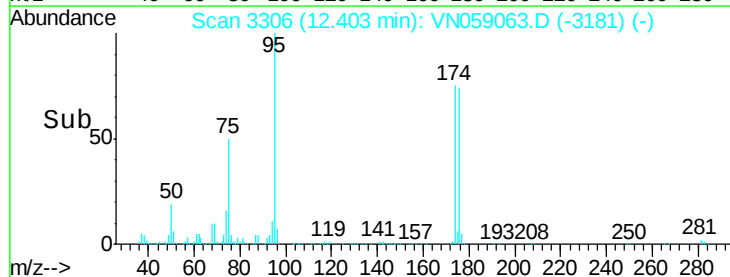
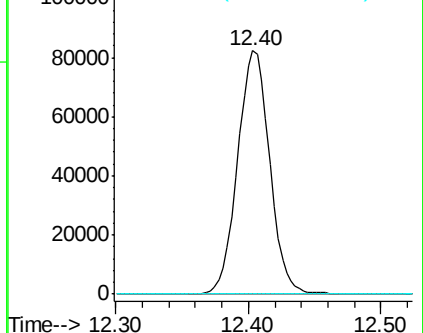
89 0.0 34.2 51.2#

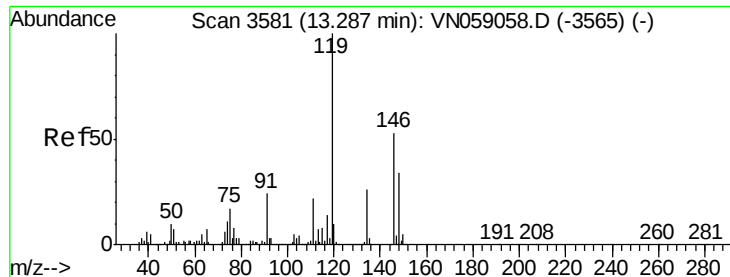


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

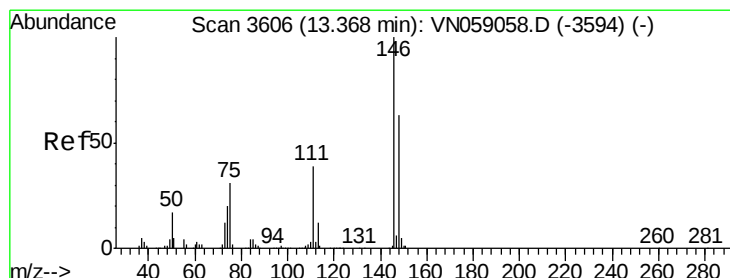
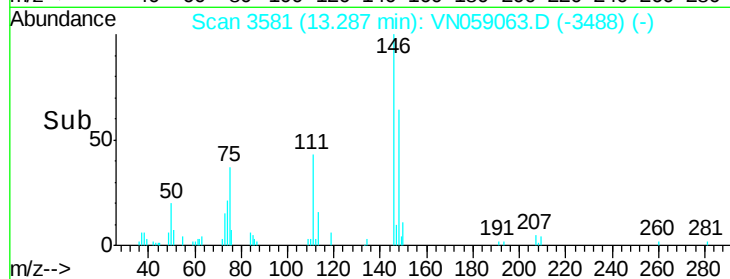
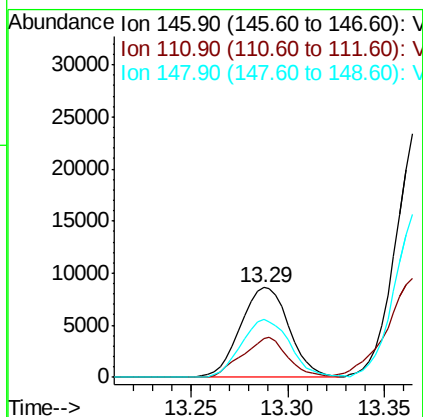
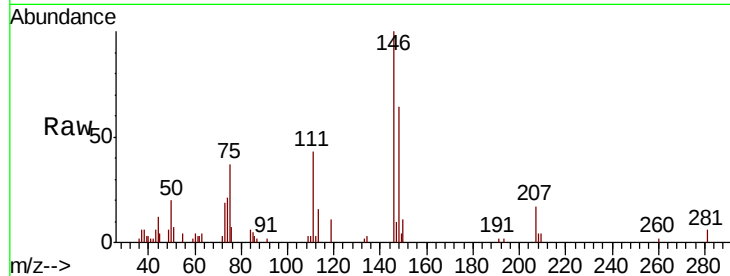




#87
 1,3-Dichlorobenzene
 Concen: 2.182 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN059063.D
 Acq: 1 Nov 2019 15:37

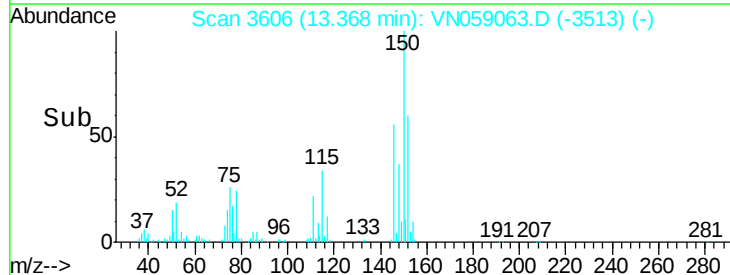
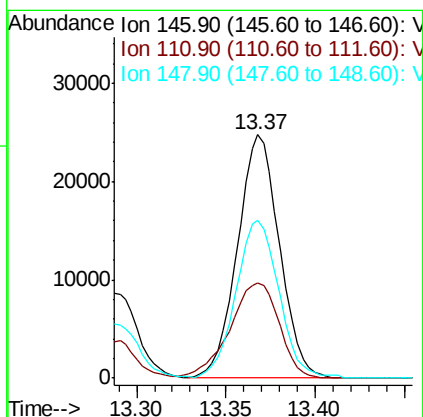
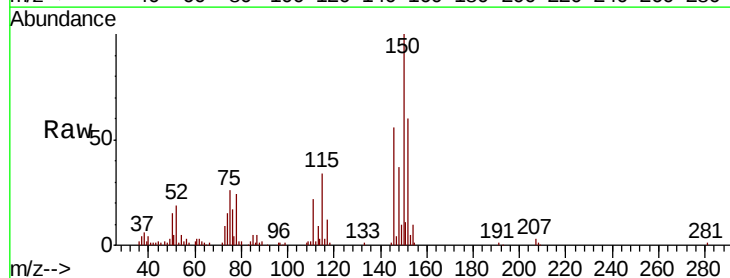
Instrument :
 MSVOA_N
 ClientSampled :

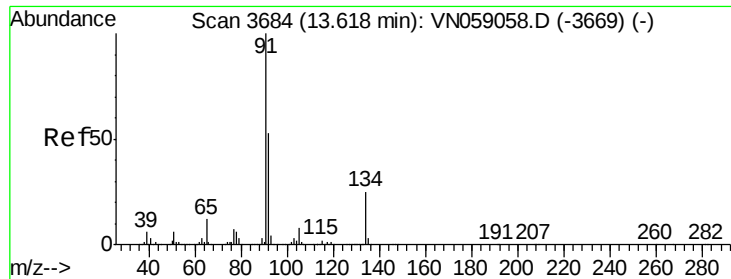
Tot Ion:146 Resp: 15150
 Ion Ratio Lower Upper
 146 100
 111 41.4 20.5 61.5
 148 64.8 31.8 95.3



#88
 1,4-Dichlorobenzene
 Concen: 5.938 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN059063.D
 Acq: 1 Nov 2019 15:37

Tgt Ion:146 Resp: 40785
 Ion Ratio Lower Upper
 146 100
 111 46.0 20.1 60.2
 148 66.5 31.9 95.7

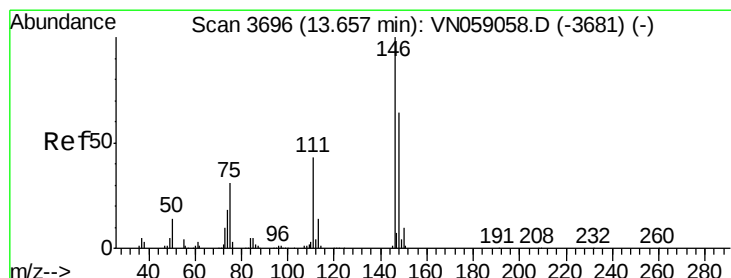
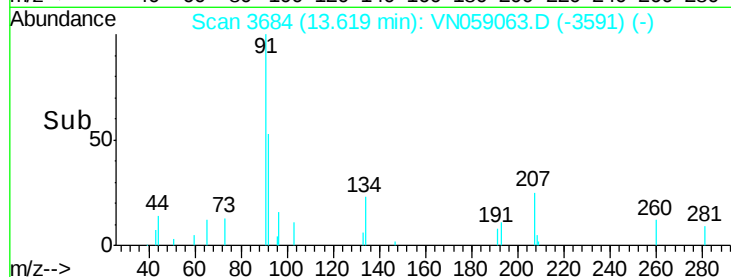
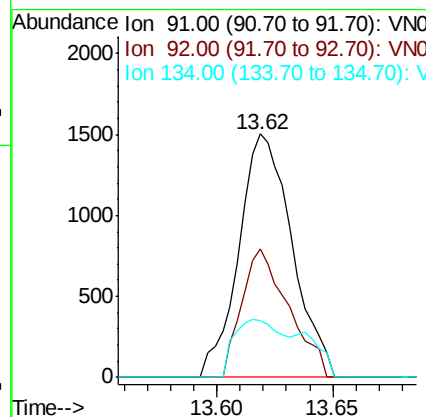
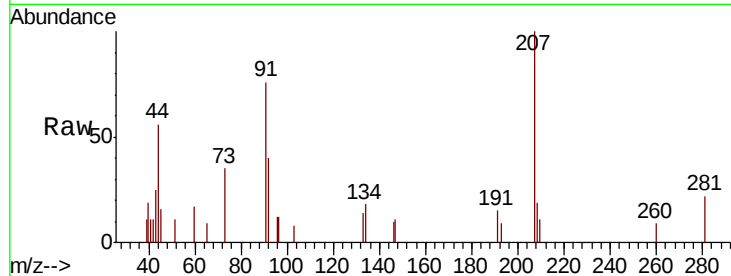




#89
n-Butylbenzene
Concen: 0.206 ug/l
RT: 13.62 min Scan# 3684
Delta R.T. 0.00 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

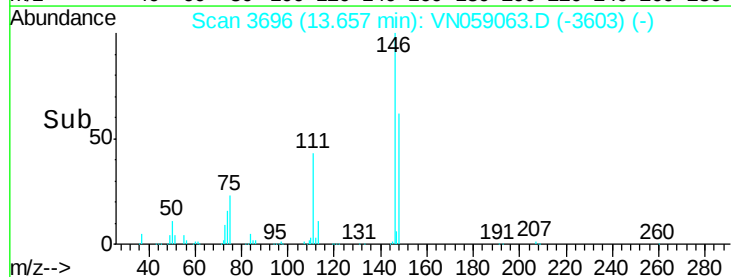
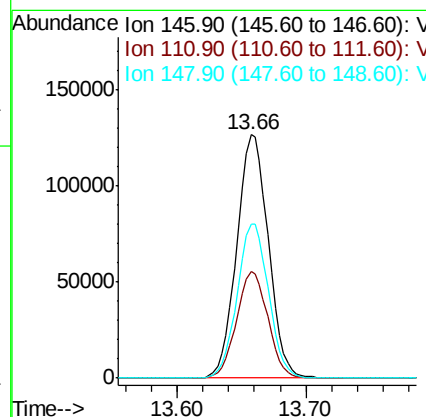
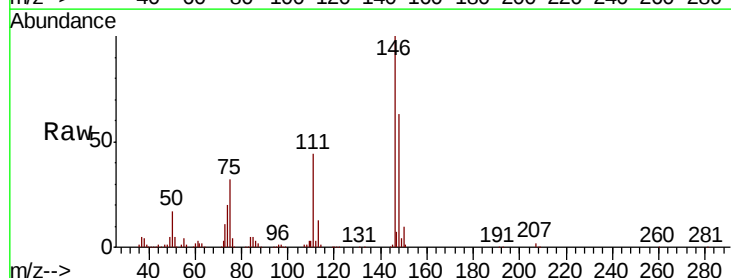
Instrument :
MSVOA_N
ClientSampleId :

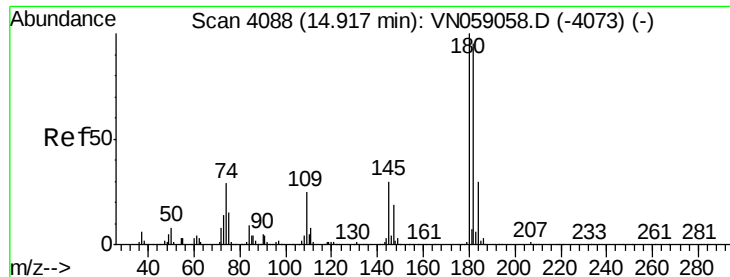
Tot Ion: 91 Resp: 2390
Ion Ratio Lower Upper
91 100
92 46.2 26.4 79.0
134 21.7 12.5 37.5



#91
1,2-Dichlorobenzene
Concen: 31.190 ug/l
RT: 13.66 min Scan# 3696
Delta R.T. 0.00 min
Lab File: VN059063.D
Acq: 1 Nov 2019 15:37

Tgt Ion: 146 Resp: 215483
Ion Ratio Lower Upper
146 100
111 43.4 21.2 63.6
148 63.1 32.1 96.3

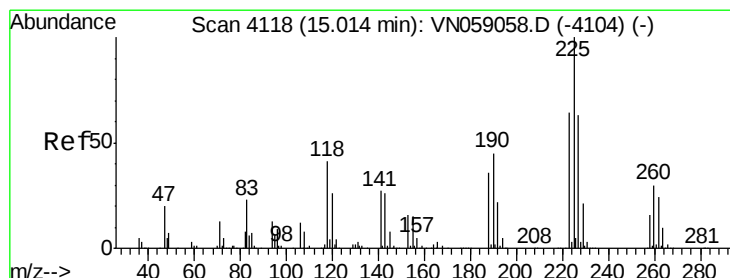
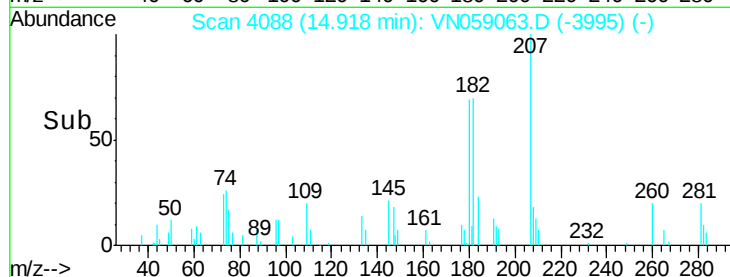
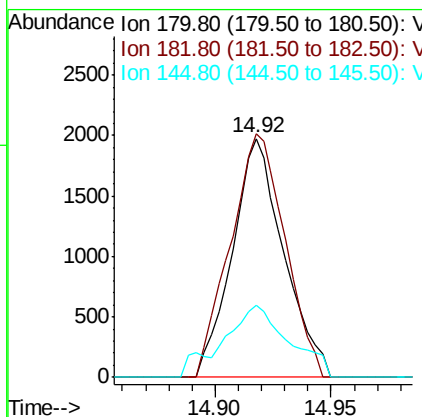
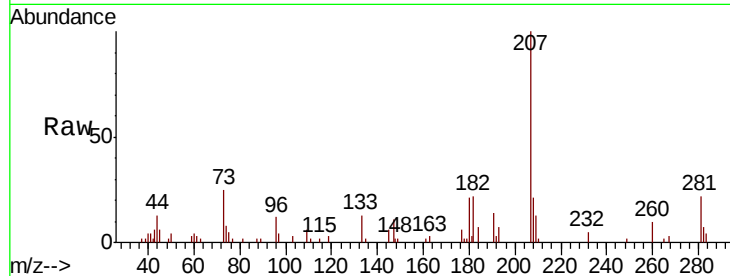




#93
 1,2,4-Trichlorobenzene
 Concen: 0.816 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN059063.D
 Acq: 1 Nov 2019 15:37

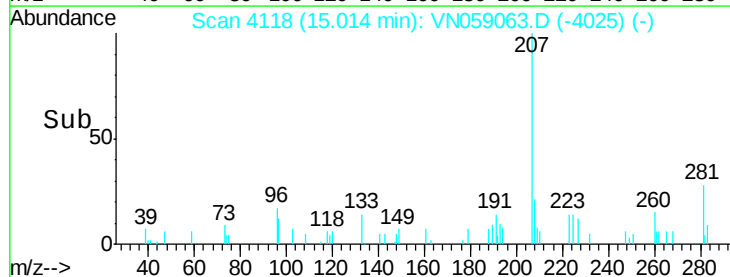
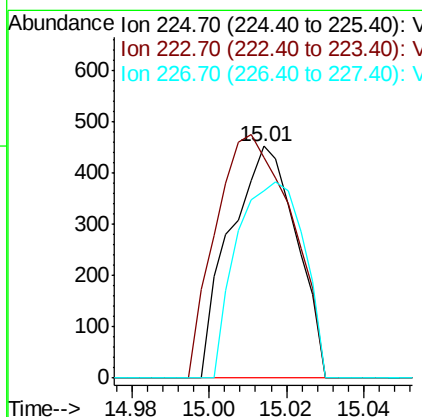
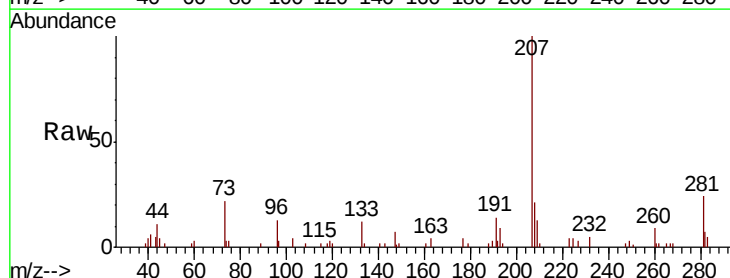
Instrument :
 MSVOA_N
 ClientSampled :

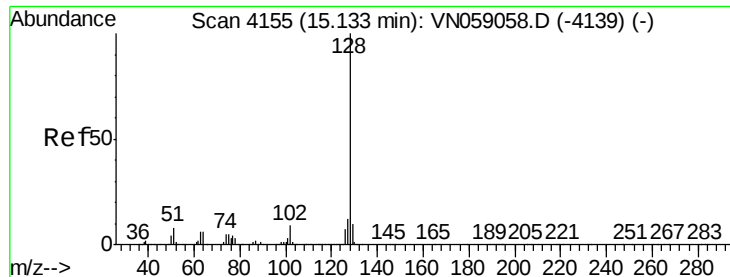
Tot Ion:180 Resp: 3039
 Ion Ratio Lower Upper
 180 100
 182 108.5 47.8 143.4
 145 33.9 15.1 45.3



#94
 Hexachlorobutadiene
 Concen: 0.241 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059063.D
 Acq: 1 Nov 2019 15:37

Tgt Ion:225 Resp: 538
 Ion Ratio Lower Upper
 225 100
 223 120.1 31.6 95.0#
 227 85.9 31.9 95.7





#95

Naphthalene

Concen: 3.794 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

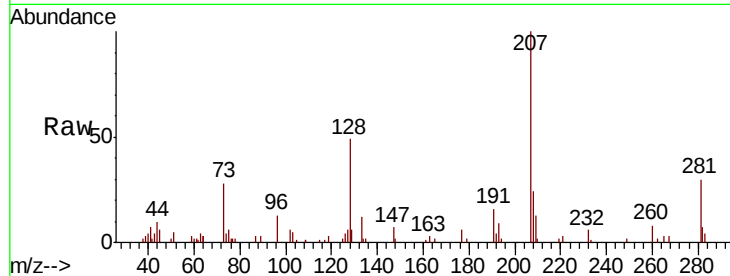
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 9981

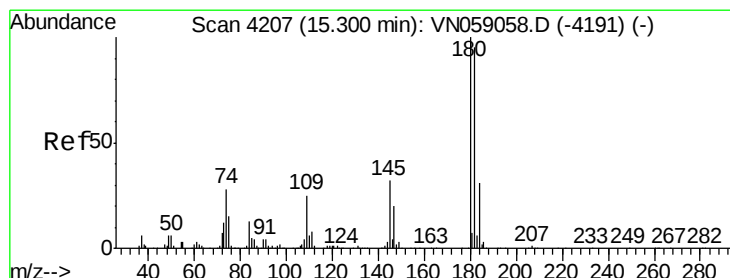
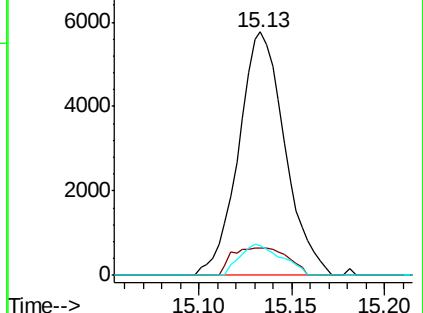
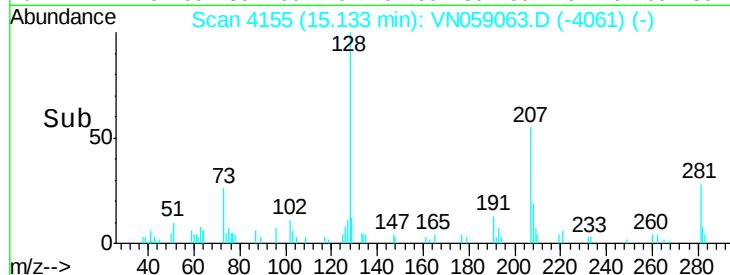
Ion	Ratio	Lower	Upper
128	100		
127	13.5	9.9	14.9
129	11.6	8.4	12.6



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: 0.945 ug/l

RT: 15.30 min Scan# 4207

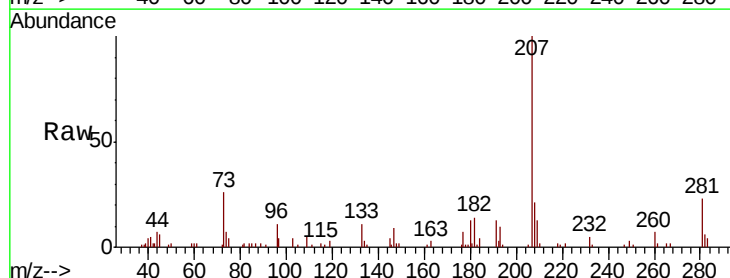
Delta R.T. 0.00 min

Lab File: VN059063.D

Acq: 1 Nov 2019 15:37

Tgt Ion:180 Resp: 3582

Ion	Ratio	Lower	Upper
180	100		
182	94.2	47.7	143.1
145	39.1	16.0	48.0



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

