

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032420\
 Data File : VN060666.D
 Acq On : 24 Mar 2020 12:57
 Operator : JC/MD
 Sample : L2023-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 25 03:51:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	175064	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	288818	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	259195	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	109592	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	111312	46.32	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	92.64%	
35) Dibromofluoromethane	7.56	113	84459	48.36	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.72%	
50) Toluene-d8	10.08	98	350532	49.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	12.40	95	122978	47.04	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.08%	

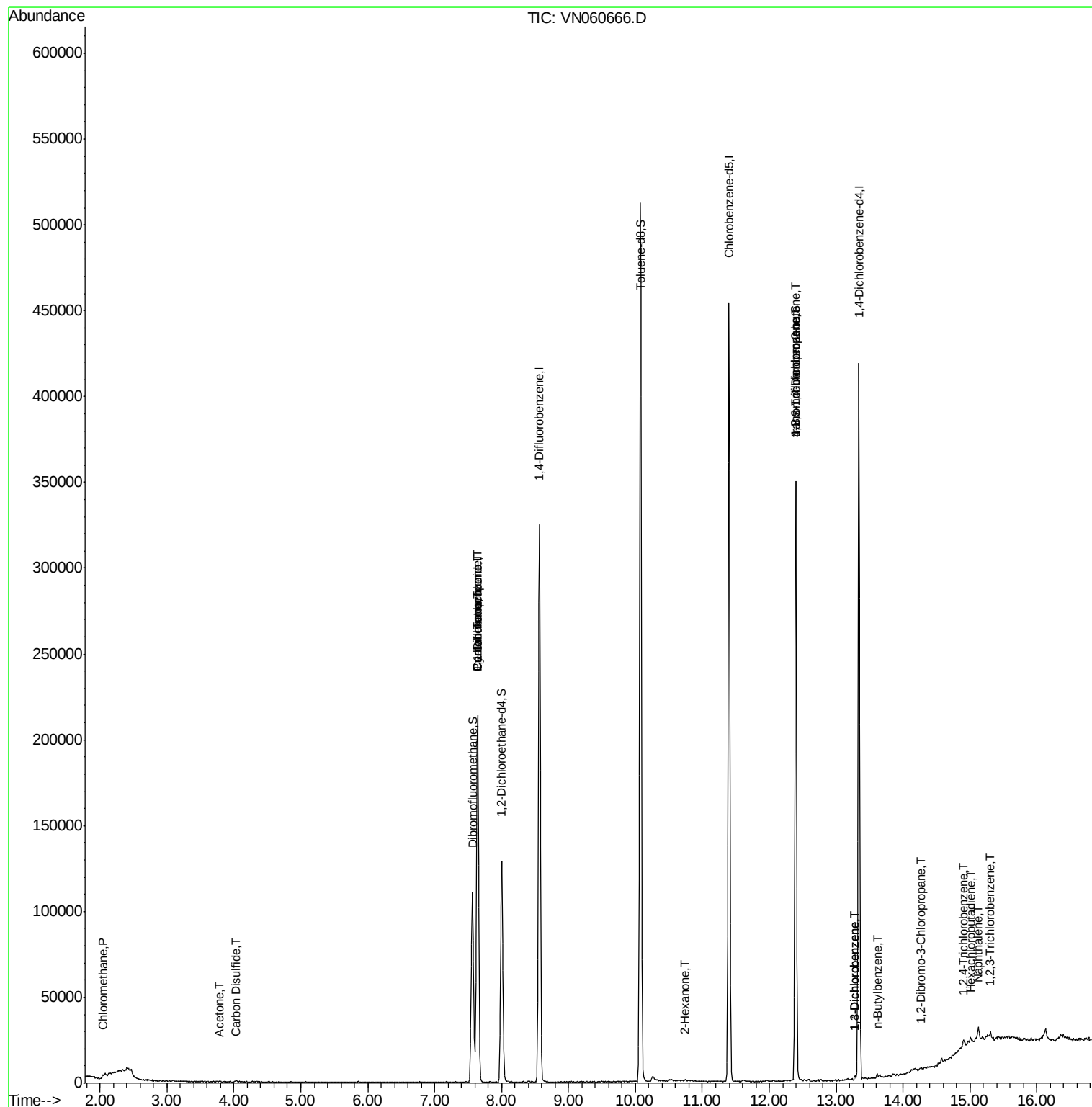
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	640	0.202	ug/l #	87
16) Acetone	3.78	43	286	0.336	ug/l #	43
17) Carbon Disulfide	4.03	76	1268	0.220	ug/l #	75
31) Cyclohexane	7.64	56	3719	0.961	ug/l #	3
36) 1,1-Dichloropropene	7.64	75	13785	4.929	ug/l #	50
38) Carbon Tetrachloride	7.64	117	16635	6.637	ug/l #	16
59) 2-Hexanone	10.74	43	811	0.397	ug/l	75
76) 1,2,3-Trichloropropane	12.40	75	62606	26.474	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	62606	67.994	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	848	0.243	ug/l	80
88) 1,4-Dichlorobenzene	13.28	146	848	0.241	ug/l	81
89) n-Butylbenzene	13.62	91	1672	0.265	ug/l	95
92) 1,2-Dibromo-3-Chloropropan	14.26	75	252	0.217	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	1263	0.615	ug/l	94
94) Hexachlorobutadiene	15.00	225	607	0.603	ug/l	94
95) Naphthalene	15.13	128	5353	0.867	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	1533	0.758	ug/l	93

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

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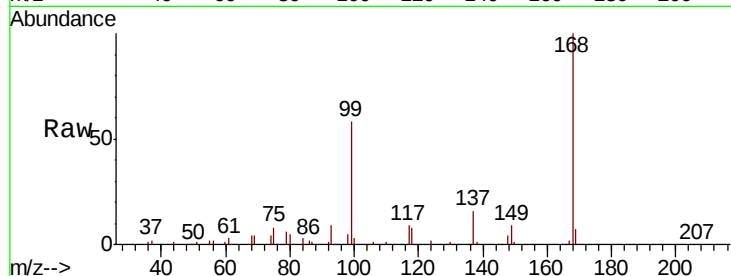




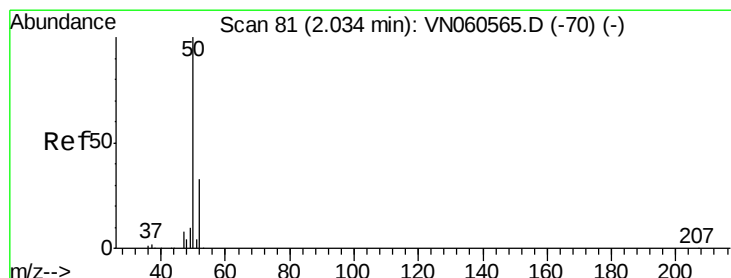
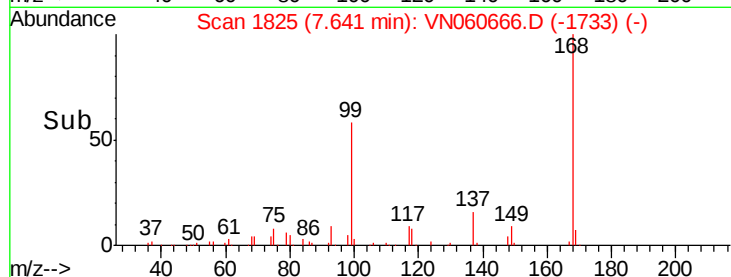
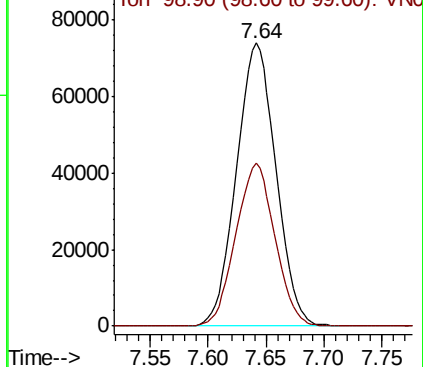
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. -0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 175064
Ion Ratio Lower Upper
168 100
99 57.5 44.0 66.0

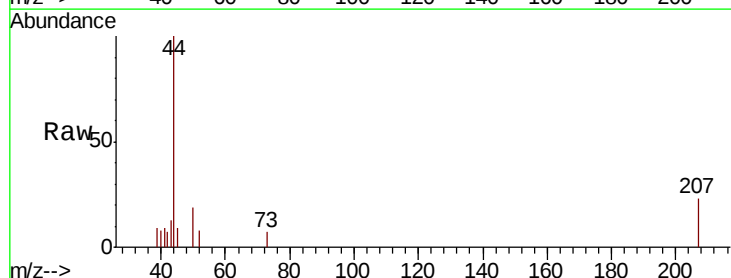


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VN0

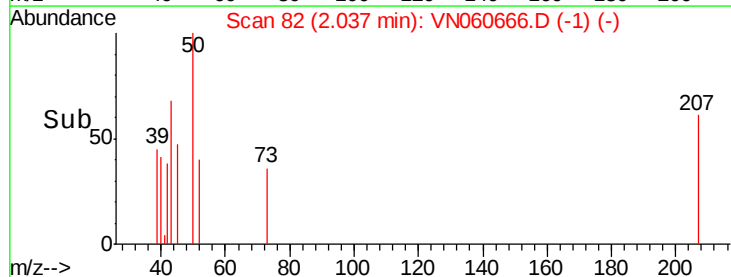
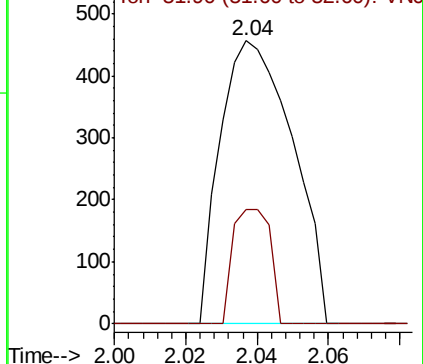


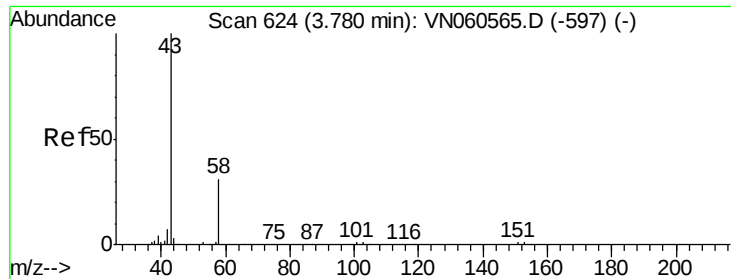
#3
Chloromethane
Concen: 0.202 ug/l
RT: 2.04 min Scan# 82
Delta R.T. 0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Tgt Ion: 50 Resp: 640
Ion Ratio Lower Upper
50 100
52 40.3 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VN0
Ion 51.90 (51.60 to 52.60): VN0





#16

Acetone

Concen: 0.336 ug/l

RT: 3.78 min Scan# 624

Delta R.T. -0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

Instrument :

MSVOA_N

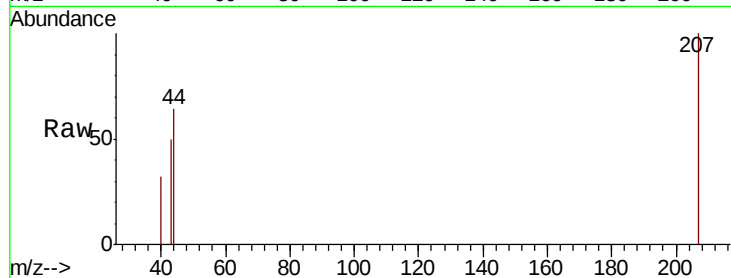
ClientSampled :

Tot Ion: 43 Resp: 286

Ion Ratio Lower Upper

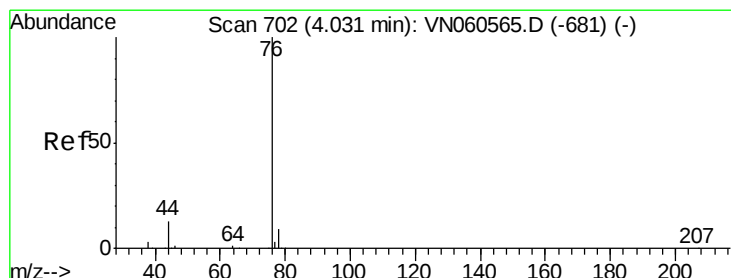
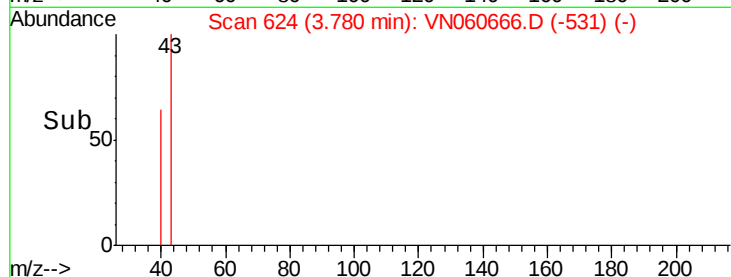
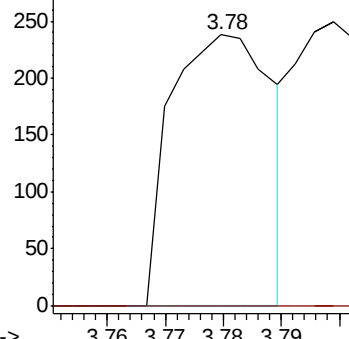
43 100

58 0.0 25.1 37.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.220 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN060666.D

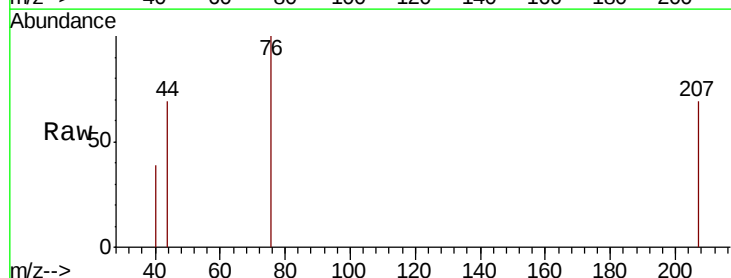
Acq: 24 Mar 2020 12:57

Tgt Ion: 76 Resp: 1268

Ion Ratio Lower Upper

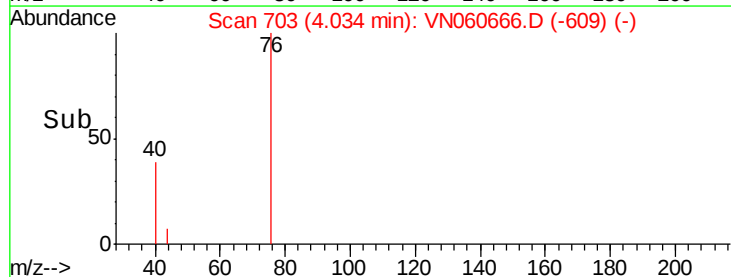
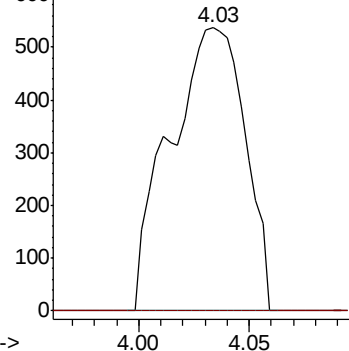
76 100

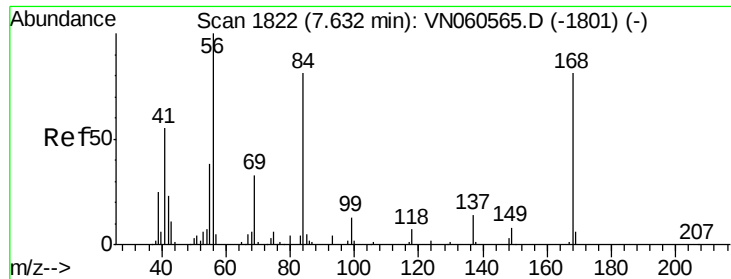
78 0.0 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

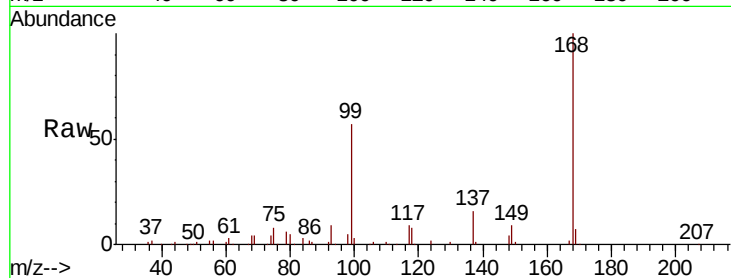




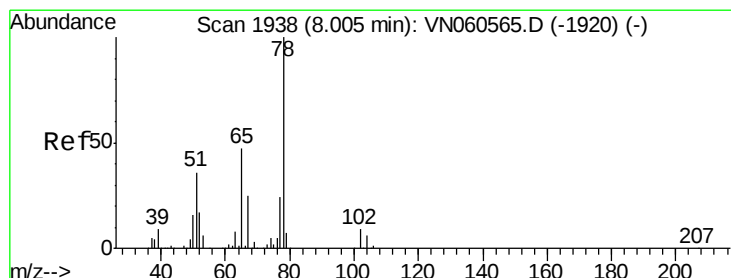
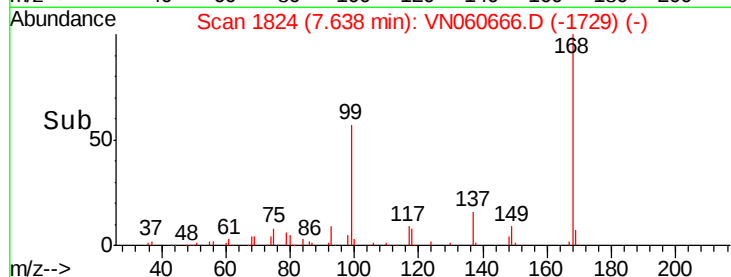
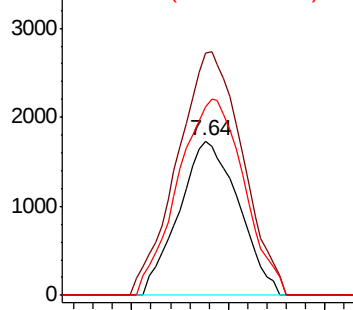
#31
Cyclohexane
Concen: 0.961 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3719
Ion Ratio Lower Upper
56 100
69 156.9 26.6 40.0#
84 122.2 64.3 96.5#

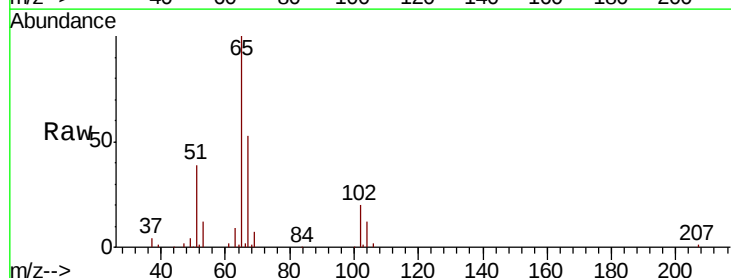


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

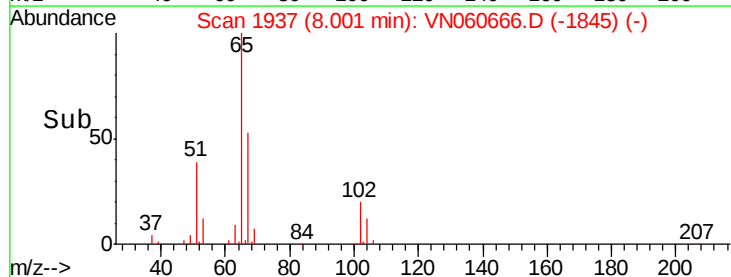
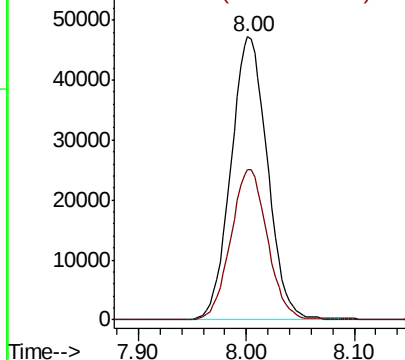


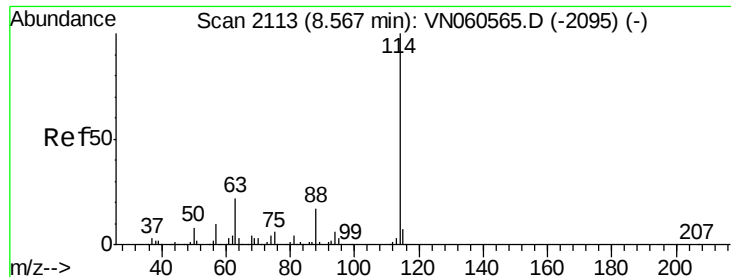
#33
1,2-Dichloroethane-d4
Concen: 46.318 ug/l
RT: 8.00 min Scan# 1937
Delta R.T. -0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Tgt Ion: 65 Resp: 111312
Ion Ratio Lower Upper
65 100
67 53.3 0.0 107.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

Instrument :
MSVOA_N
ClientSampleId :

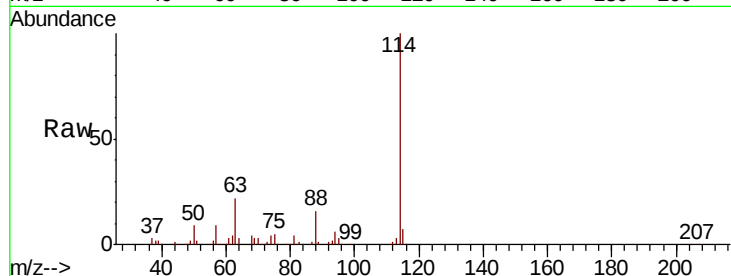
Tot Ion:114 Resp: 288818

Ion Ratio Lower Upper

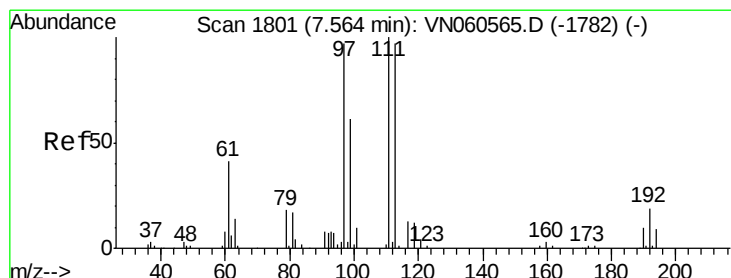
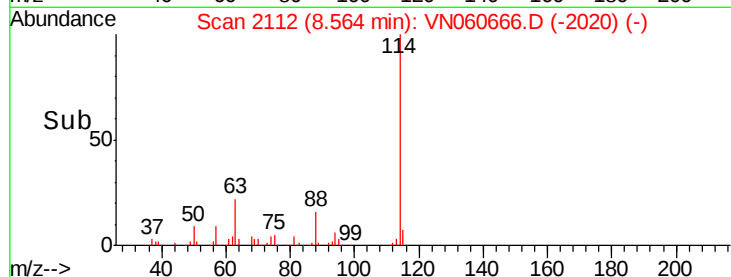
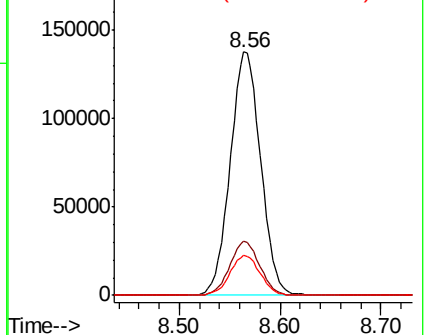
114 100

63 22.1 0.0 43.8

88 16.2 0.0 33.0



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: 48.362 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

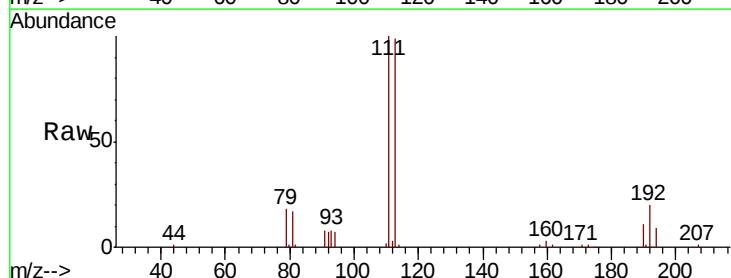
Tgt Ion:113 Resp: 84459

Ion Ratio Lower Upper

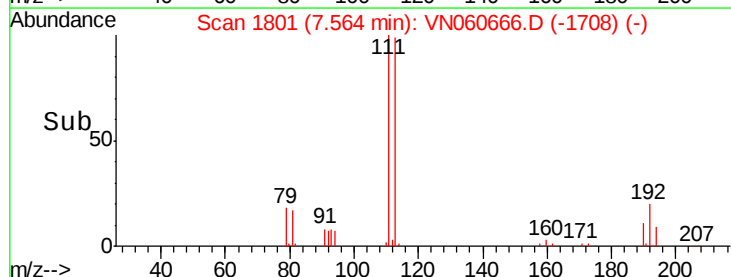
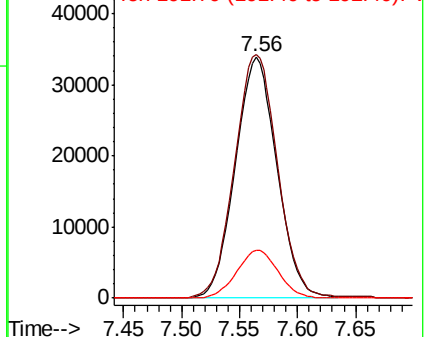
113 100

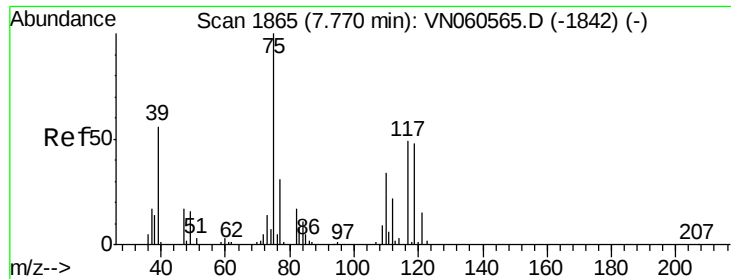
111 104.2 82.9 124.3

192 19.7 15.8 23.8



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

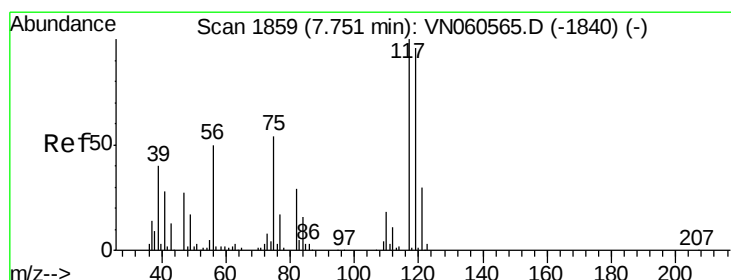
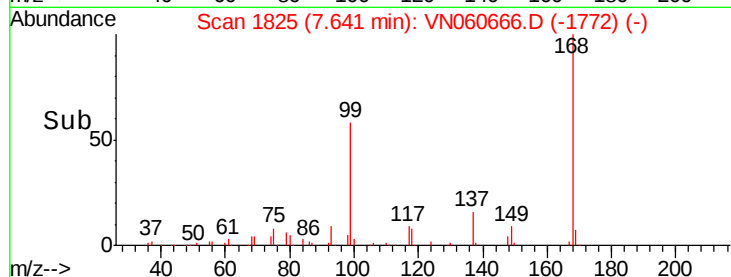
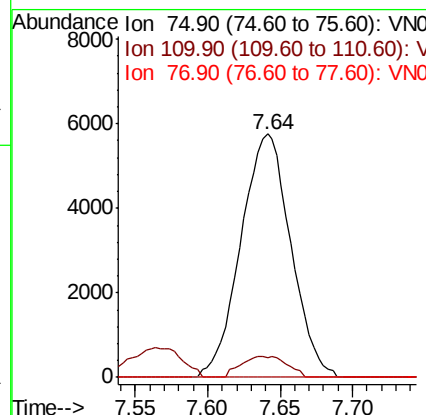
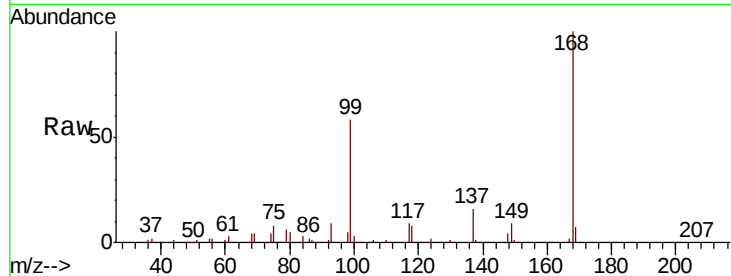




#36
 1,1-Dichloropropene
 Concen: 4.929 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060666.D
 Acq: 24 Mar 2020 12:57

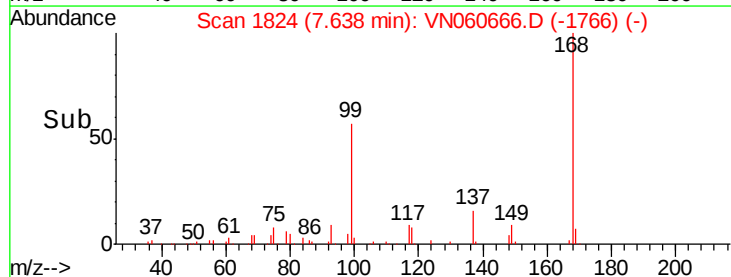
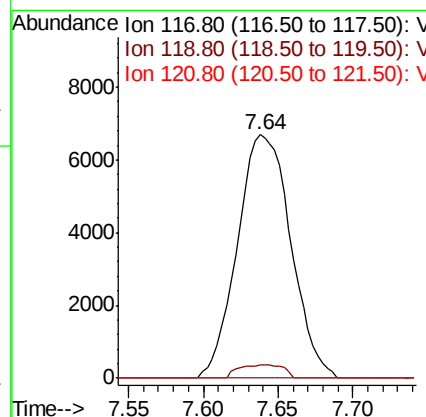
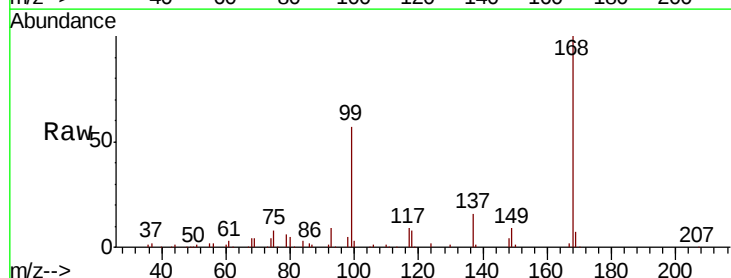
Instrument :
 MSVOA_N
 ClientSampled :

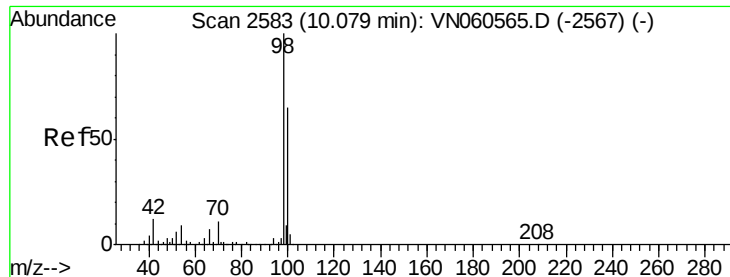
Tot Ion	75	Resp	13785
Ion Ratio	100	Lower	Upper
75	100		
110	7.9	16.9	50.6#
77	0.0	24.6	36.8#



#38
 Carbon Tetrachloride
 Concen: 6.637 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.11 min
 Lab File: VN060666.D
 Acq: 24 Mar 2020 12:57

Tgt Ion	117	Resp	16635
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	5.4	76.2	114.2#
121	0.0	23.7	35.5#





#50

Toluene-d8

Concen: 49.140 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

Instrument :

MSVOA_N

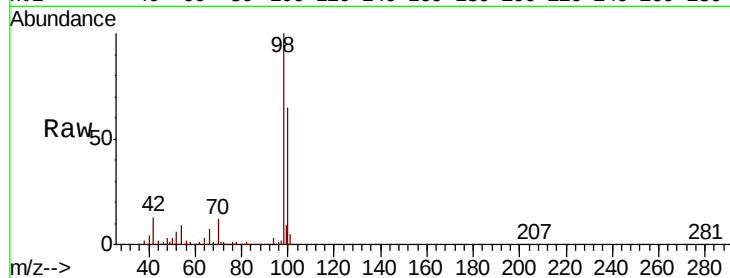
ClientSampled :

Tot Ion: 98 Resp: 350532

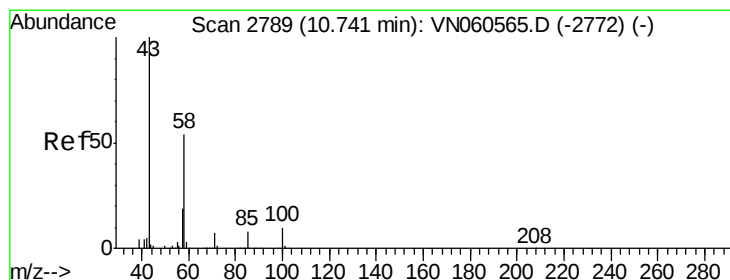
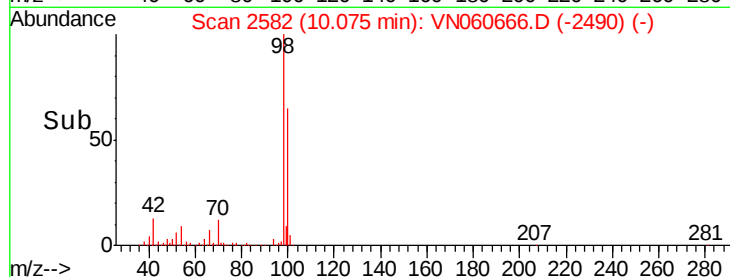
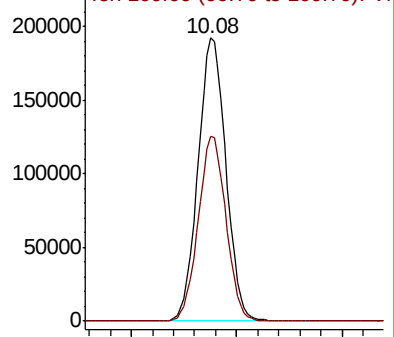
Ion Ratio Lower Upper

98 100

100 65.0 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN060666.D (-2567) (-)



#59

2-Hexanone

Concen: 0.397 ug/l

RT: 10.74 min Scan# 2790

Delta R.T. 0.00 min

Lab File: VN060666.D

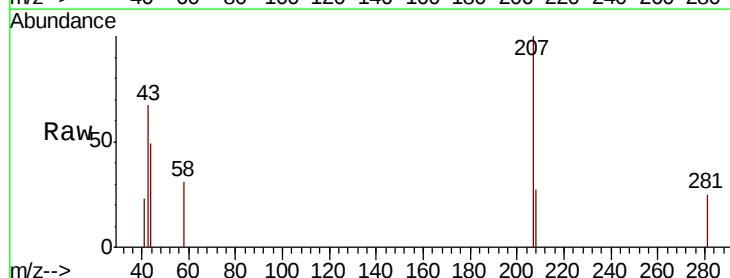
Acq: 24 Mar 2020 12:57

Tgt Ion: 43 Resp: 811

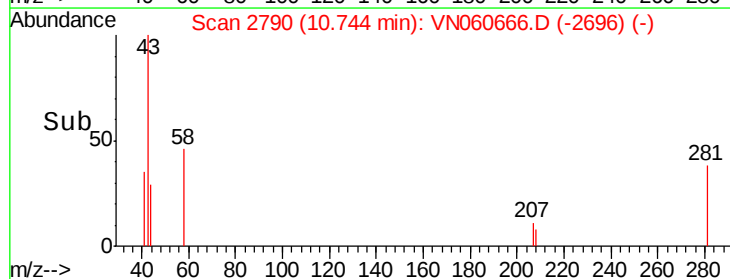
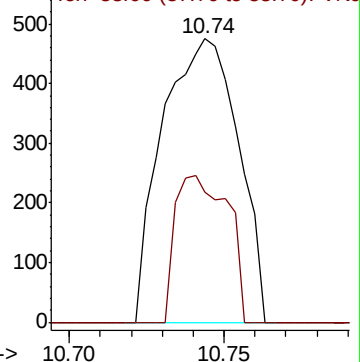
Ion Ratio Lower Upper

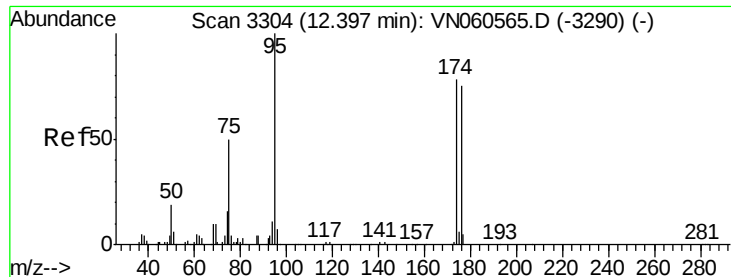
43 100

58 35.8 26.7 80.1



Abundance Ion 43.00 (42.70 to 43.70): VN060666.D (-2772) (-)

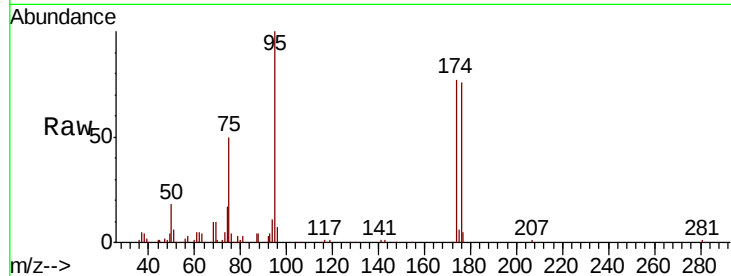




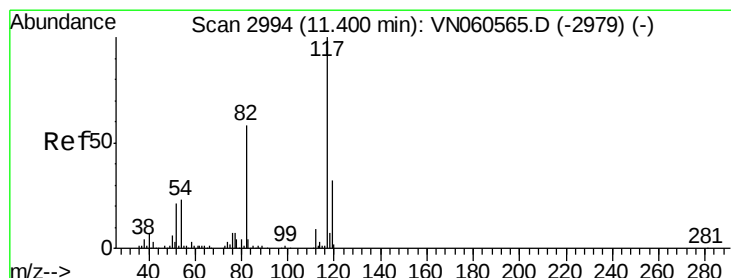
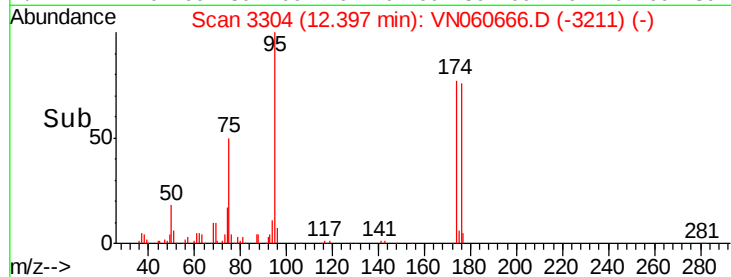
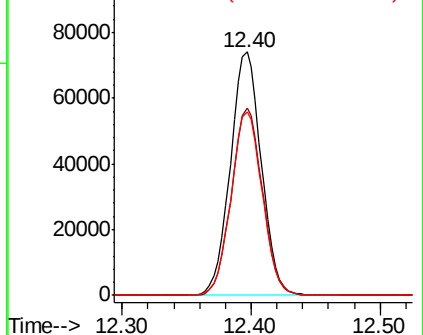
#62
4-Bromofluorobenzene
Concen: 47.041 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 95 Resp: 122978
Ion Ratio Lower Upper
95 100
174 77.1 0.0 157.6
176 76.3 0.0 150.6

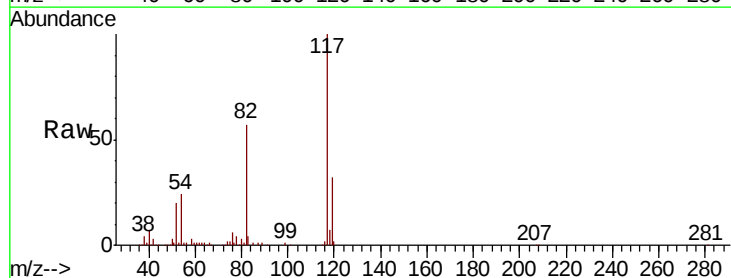


Abundance Ion 94.90 (94.60 to 95.60): VN060666.D (-3290) (-)
Ion 173.80 (173.50 to 174.50): VN060666.D (-3290) (-)
Ion 175.80 (175.50 to 176.50): VN060666.D (-3290) (-)

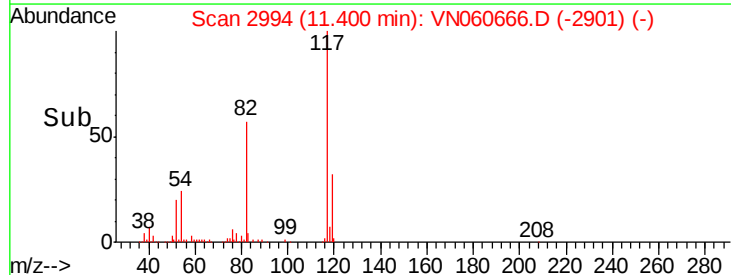
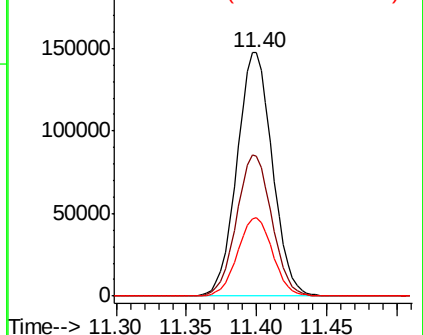


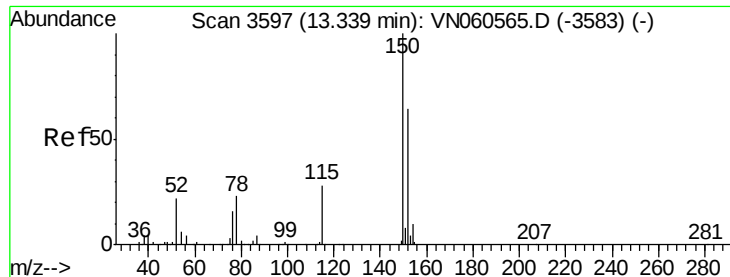
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Tgt Ion: 117 Resp: 259195
Ion Ratio Lower Upper
117 100
82 57.4 46.7 70.1
119 32.3 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN060666.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN060666.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN060666.D (-2979) (-)



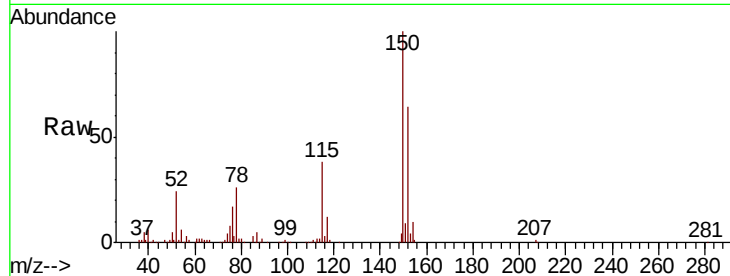


#72

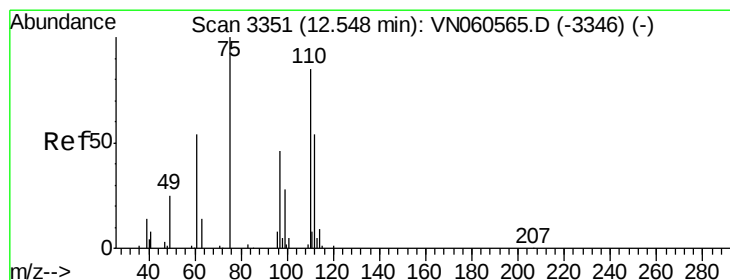
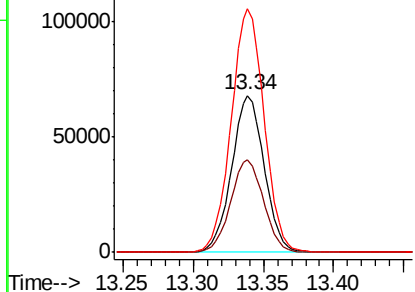
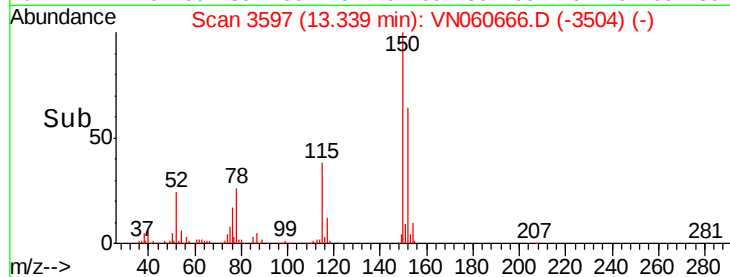
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	59.7	30.2	90.6
150	157.4	0.0	350.2



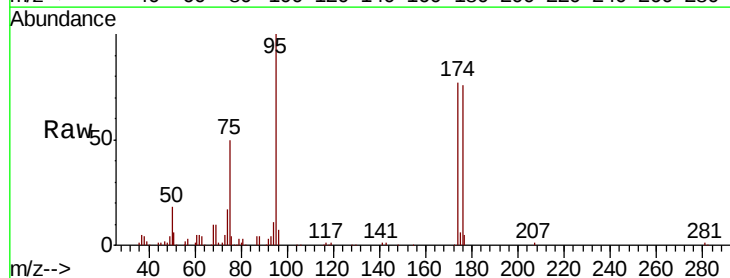
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



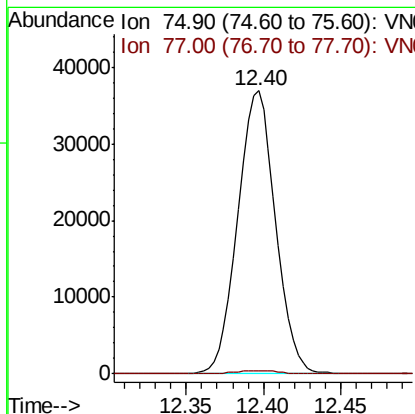
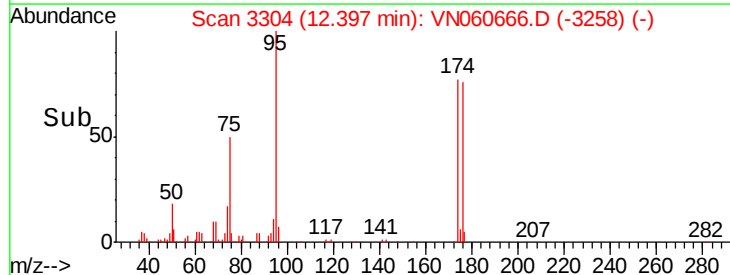
#76

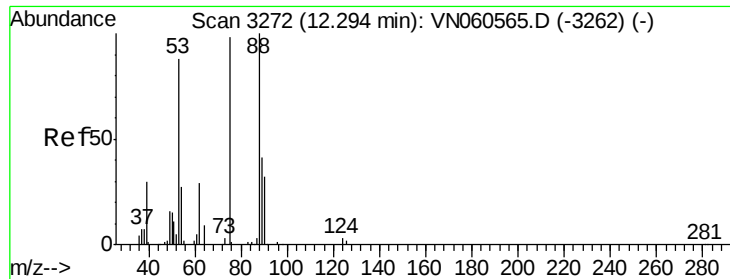
1,2,3-Trichloropropane
Concen: 26.474 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.15 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Tgt Ion	Ratio	Lower	Upper
75	100		
77	0.6	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 77.00 (76.70 to 77.70): VN0

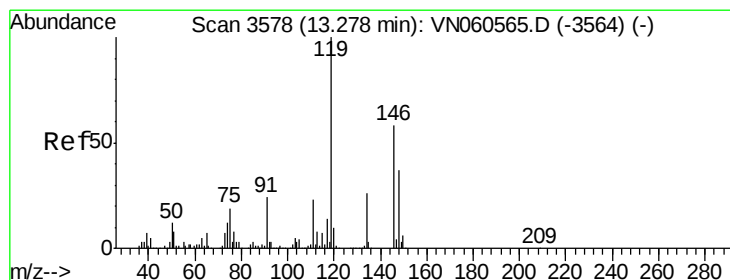
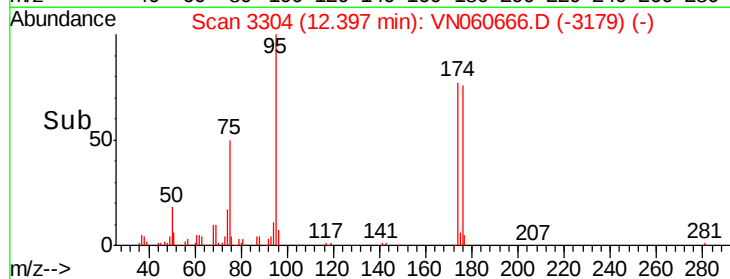
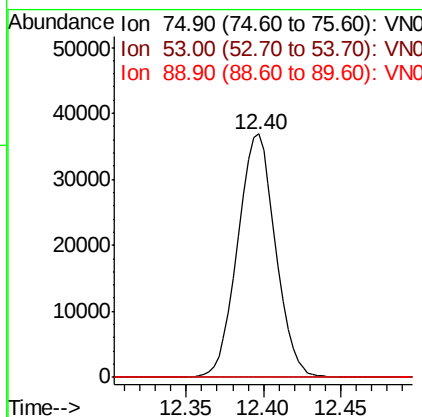
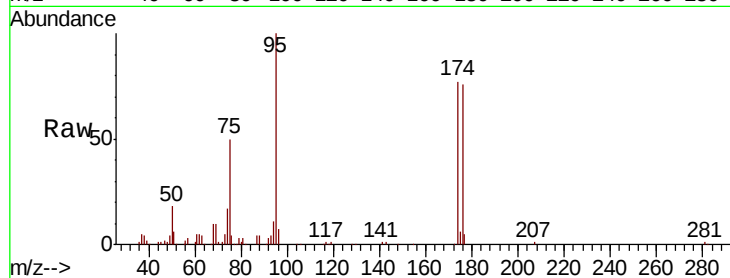




#81
trans-1,4-Dichloro-2-butene
Concen: 67.994 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

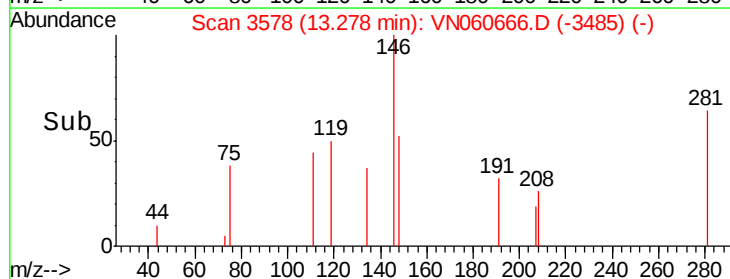
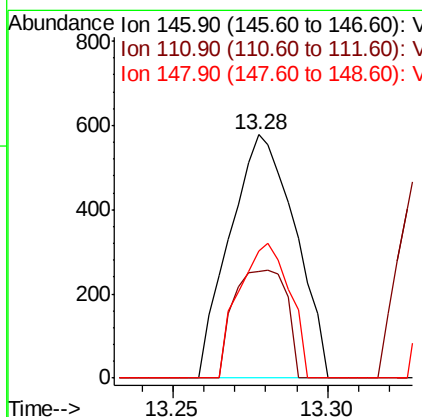
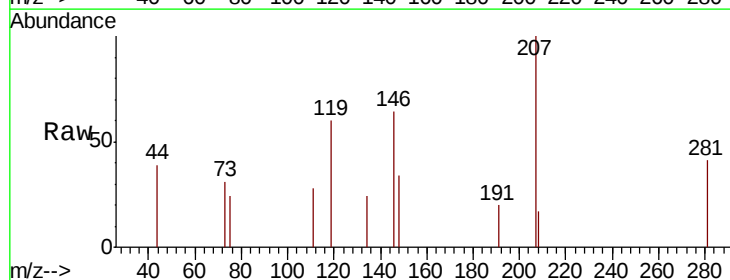
Instrument :
MSVOA_N
ClientSampled :

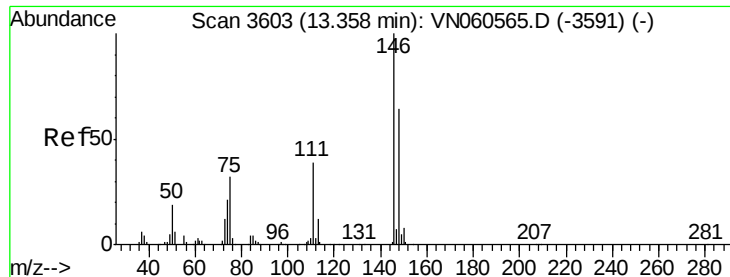
Tot Ion: 75 Resp: 62606
Ion Ratio Lower Upper
75 100
53 0.0 73.0 109.4#
89 0.0 34.8 52.2#



#87
1,3-Dichlorobenzene
Concen: 0.243 ug/l
RT: 13.28 min Scan# 3578
Delta R.T. -0.00 min
Lab File: VN060666.D
Acq: 24 Mar 2020 12:57

Tgt Ion: 146 Resp: 848
Ion Ratio Lower Upper
146 100
111 35.7 20.3 60.8
148 43.0 32.5 97.4

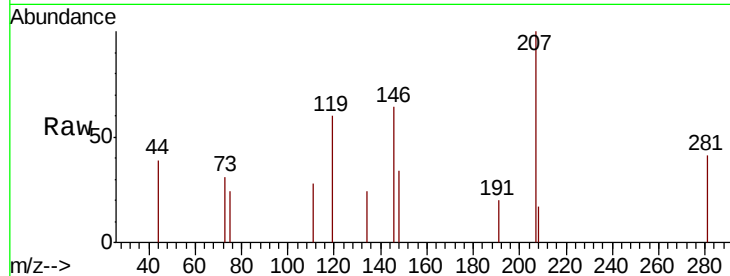




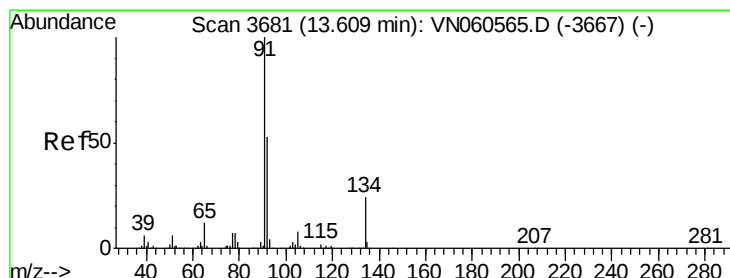
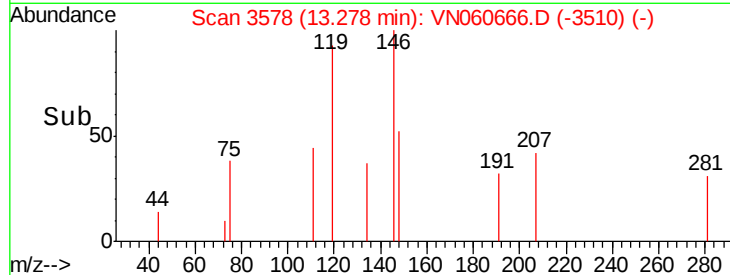
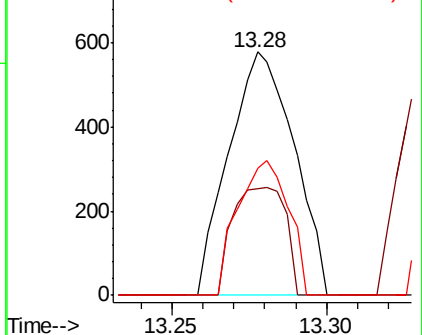
#88
 1,4-Dichlorobenzene
 Concen: 0.241 ug/l
 RT: 13.28 min Scan# 3578
 Delta R.T. -0.08 min
 Lab File: VN060666.D
 Acq: 24 Mar 2020 12:57

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:146 Resp: 848
 Ion Ratio Lower Upper
 146 100
 111 35.7 19.6 58.7
 148 43.0 32.1 96.3

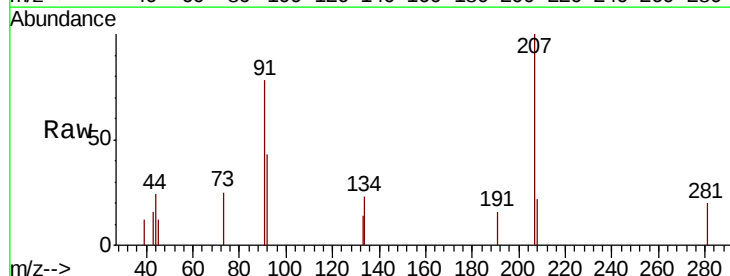


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

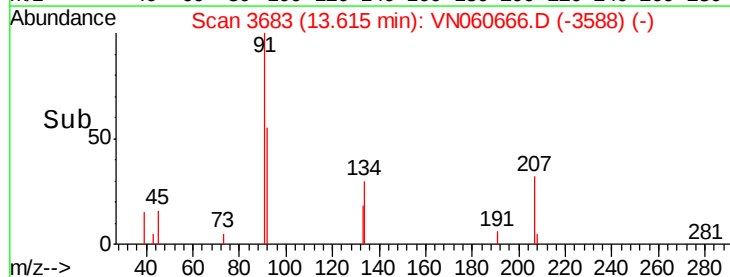
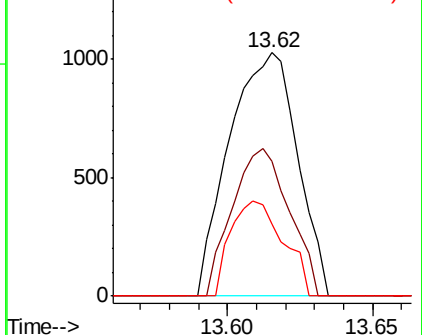


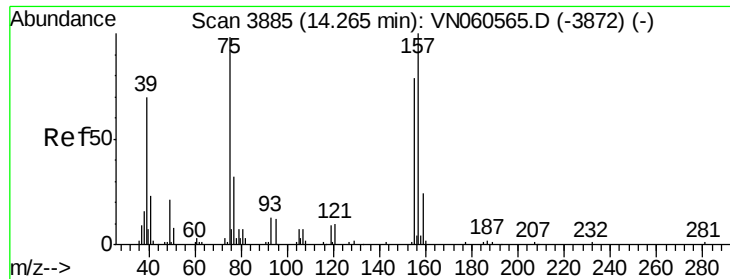
#89
 n-Butylbenzene
 Concen: 0.265 ug/l
 RT: 13.62 min Scan# 3683
 Delta R.T. 0.01 min
 Lab File: VN060666.D
 Acq: 24 Mar 2020 12:57

Tgt Ion: 91 Resp: 1672
 Ion Ratio Lower Upper
 91 100
 92 50.8 26.2 78.5
 134 30.1 12.3 36.9



Abundance Ion 91.00 (90.70 to 91.70): V
 Ion 92.00 (91.70 to 92.70): V
 Ion 134.00 (133.70 to 134.70): V





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.217 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

Instrument :

MSVOA_N

ClientSampled :

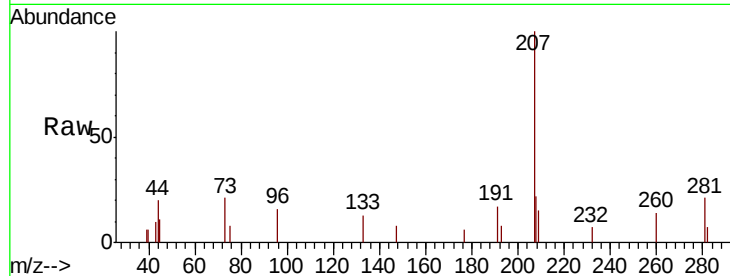
Tot Ion: 75 Resp: 252

Ion Ratio Lower Upper

75 100

155 0.0 40.7 122.1#

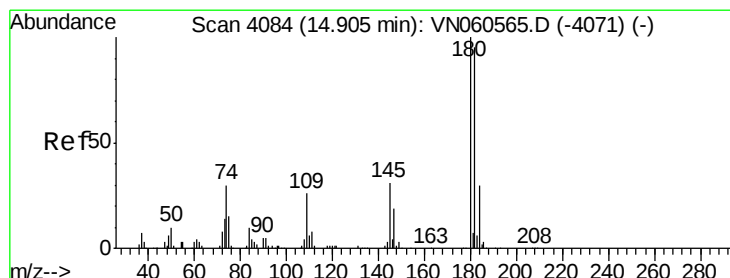
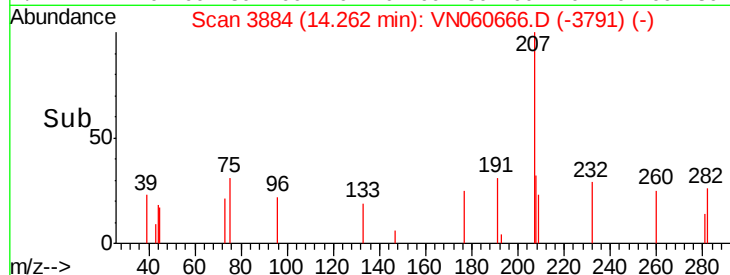
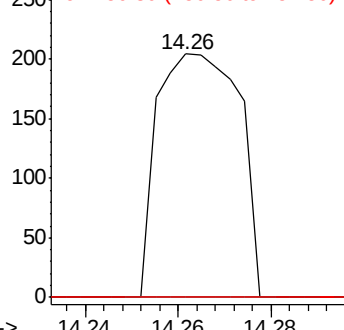
157 0.0 51.5 154.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V



#93

1,2,4-Trichlorobenzene

Concen: 0.615 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

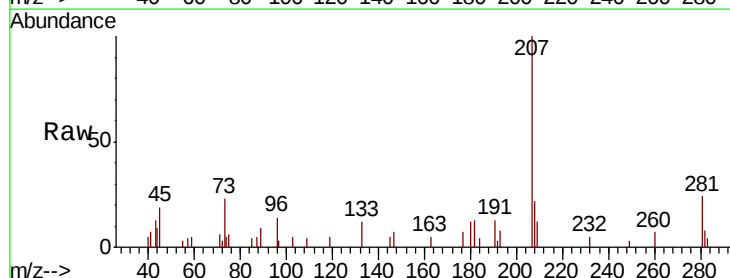
Tgt Ion:180 Resp: 1263

Ion Ratio Lower Upper

180 100

182 100.4 47.9 143.8

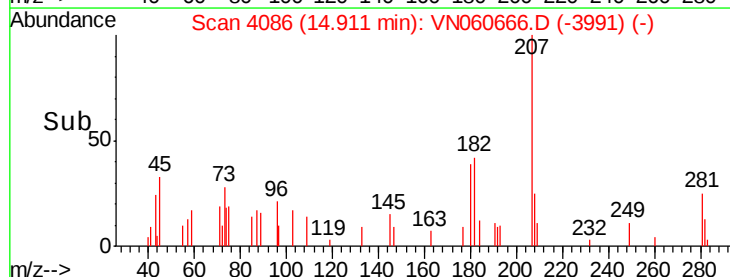
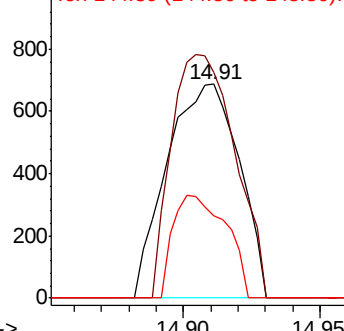
145 35.6 15.4 46.2

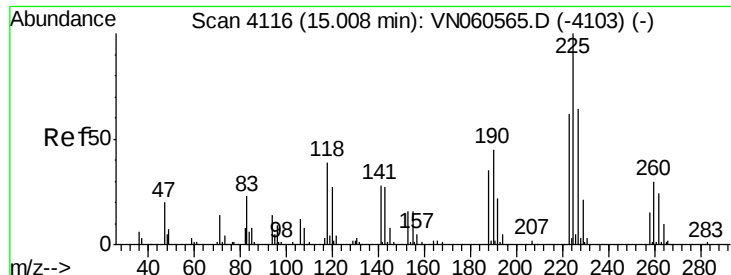


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.603 ug/l

RT: 15.00 min Scan# 4115

Delta R.T. -0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

Instrument :

MSVOA_N

ClientSampled :

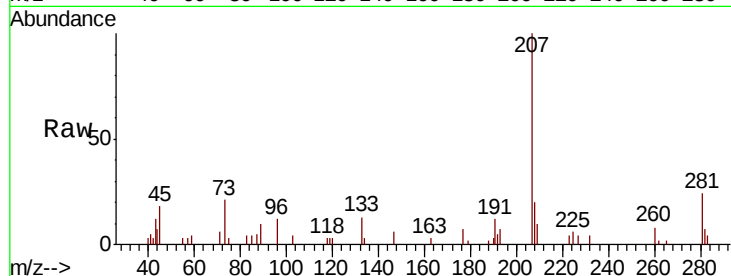
Tot Ion:225 Resp: 607

Ion Ratio Lower Upper

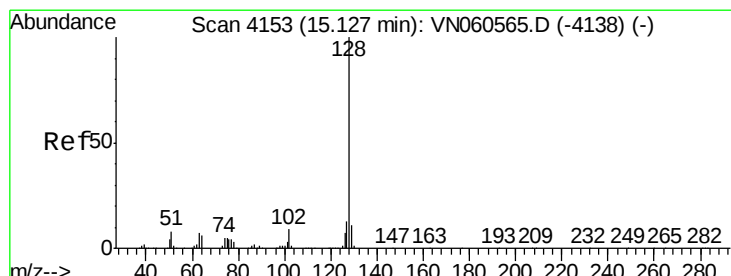
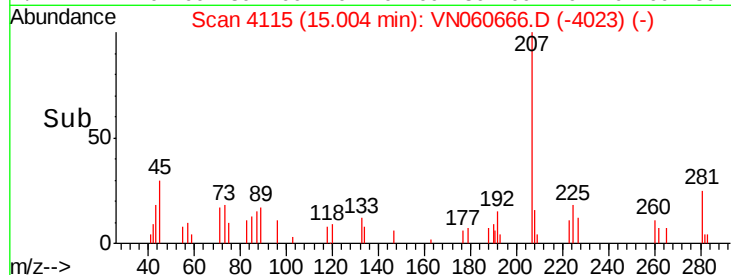
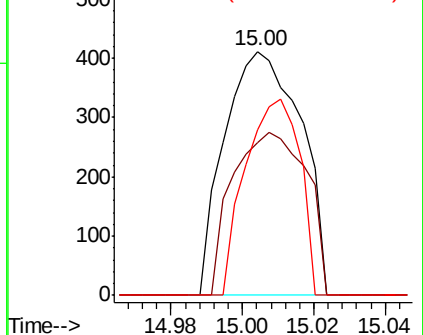
225 100

223 65.1 31.6 95.0

227 57.5 32.3 96.8



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: 0.867 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060666.D

Acq: 24 Mar 2020 12:57

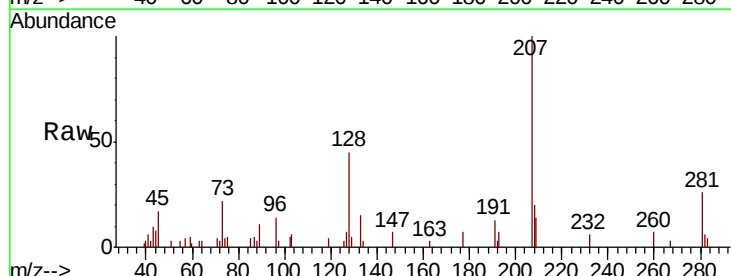
Tgt Ion:128 Resp: 5353

Ion Ratio Lower Upper

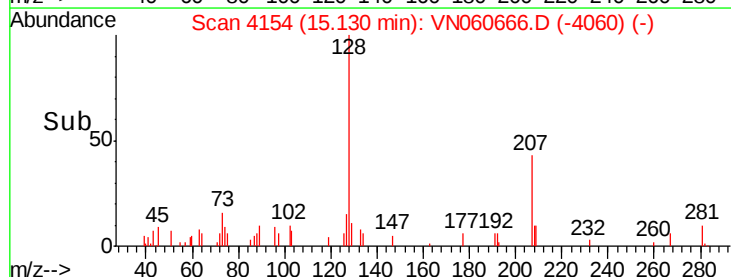
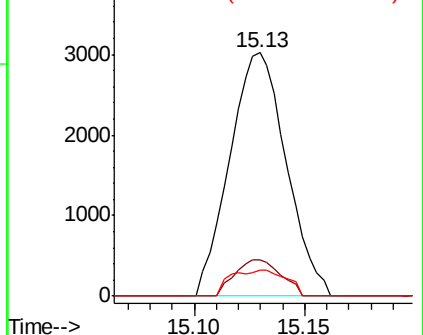
128 100

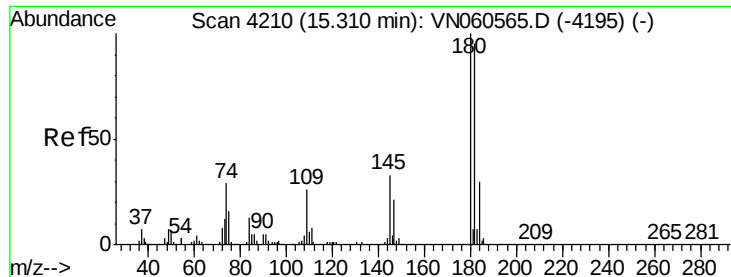
127 12.3 10.2 15.2

129 10.5 8.8 13.2



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

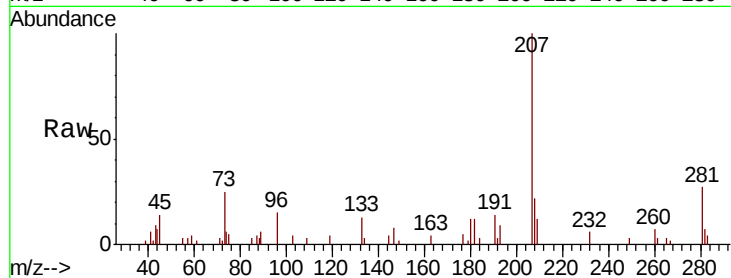




#96
 1,2,3-Trichlorobenzene
 Concen: 0.758 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.00 min
 Lab File: VN060666.D
 Acq: 24 Mar 2020 12:57

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	102.9	47.5	142.6
145	29.5	16.3	48.8



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

