

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040820\
 Data File : VN060892.D
 Acq On : 8 Apr 2020 11:32
 Operator : JC/MD
 Sample : VN0408WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 09 08:23:53 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	183333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	303428	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	276894	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	111687	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	118249	46.98	ug/l	0.00
Spiked Amount			Recovery	=	93.96%	
35) Dibromofluoromethane	7.56	113	90754	49.46	ug/l	0.00
Spiked Amount			Recovery	=	98.92%	
50) Toluene-d8	10.08	98	370731	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
62) 4-Bromofluorobenzene	12.40	95	129860	47.28	ug/l	0.00
Spiked Amount			Recovery	=	94.56%	

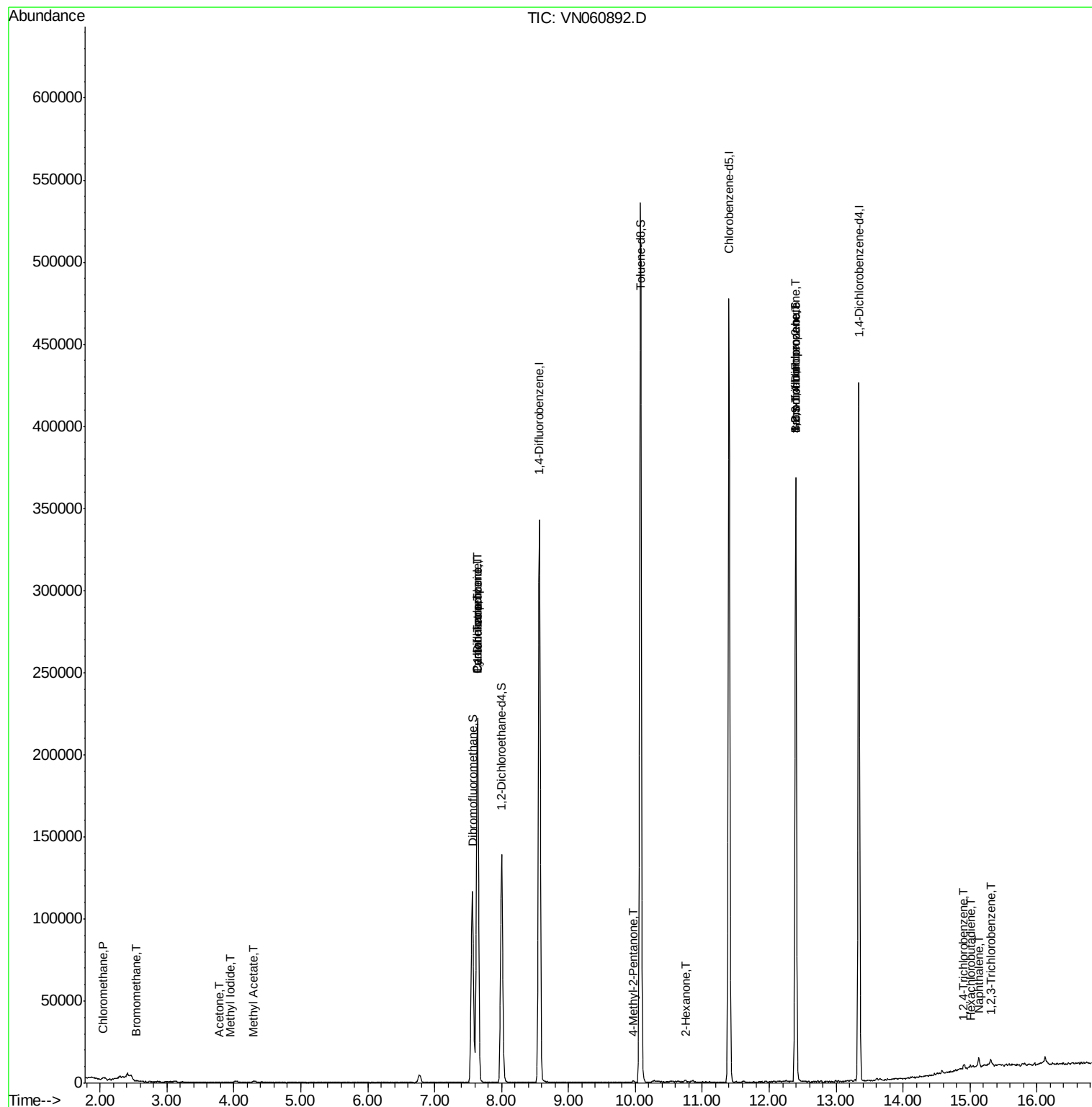
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	998	0.301	ug/l	93
5) Bromomethane	2.55	94	248	0.222	ug/l	89
10) Methyl Iodide	3.94	142	362	0.220	ug/l #	42
16) Acetone	3.79	43	250	0.280	ug/l #	43
18) Methyl Acetate	4.29	43	1756	0.700	ug/l #	57
31) Cyclohexane	7.64	56	3889	0.959	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13914	4.736	ug/l #	50
38) Carbon Tetrachloride	7.64	117	17216	6.538	ug/l #	17
51) 4-Methyl-2-Pentanone	9.97	43	1004	0.337	ug/l #	72
59) 2-Hexanone	10.75	43	967	0.451	ug/l	85
71) Bromoform	12.39	173	460	1.950	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	64975	26.961	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	64975	69.244	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.90	180	1174	0.561	ug/l	89
94) Hexachlorobutadiene	15.01	225	335	0.327	ug/l #	75
95) Naphthalene	15.13	128	5192	0.825	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1665	0.808	ug/l	96

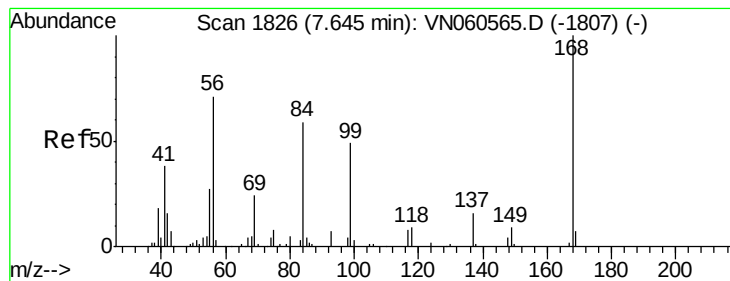
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060892.D

Acq: 8 Apr 2020 11:32

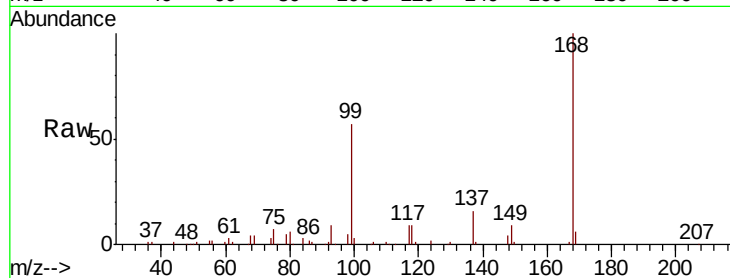
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 183333

Ion Ratio Lower Upper

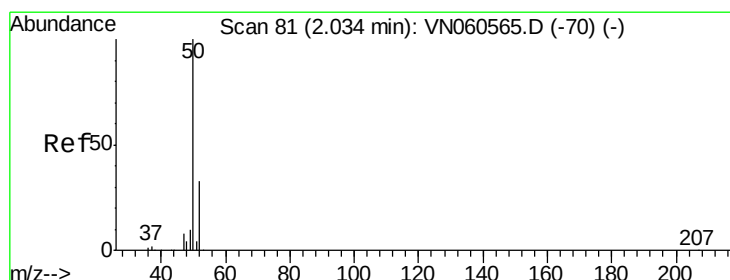
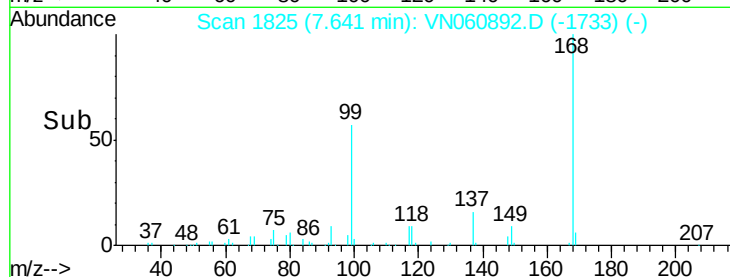
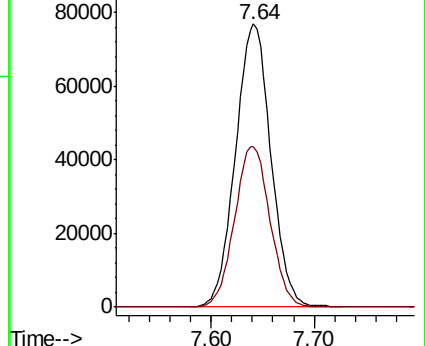
168 100

99 56.9 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.301 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN060892.D

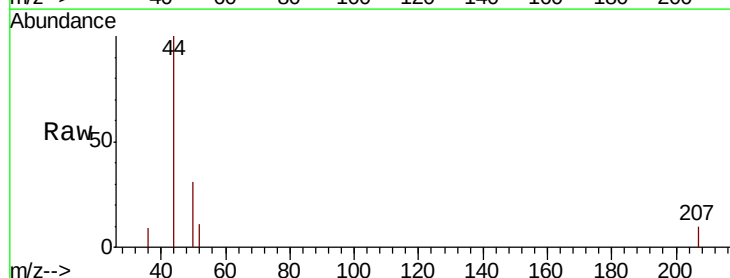
Acq: 8 Apr 2020 11:32

Tgt Ion: 50 Resp: 998

Ion Ratio Lower Upper

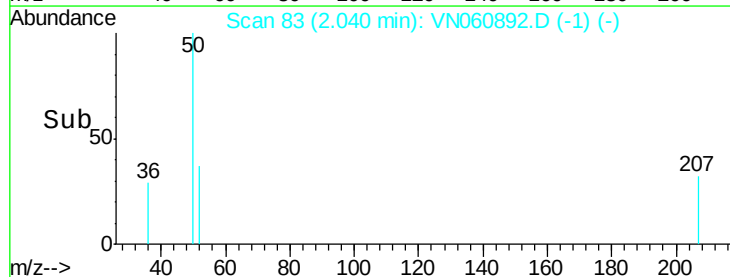
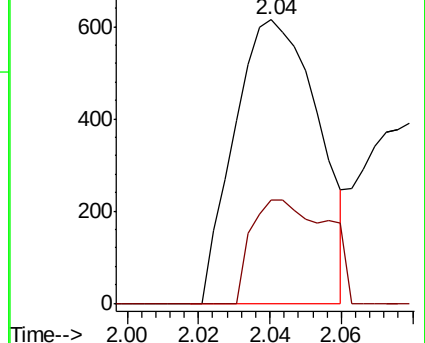
50 100

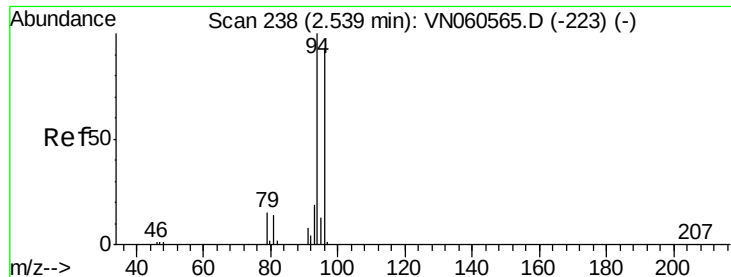
52 36.6 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#5

Bromomethane

Concen: 0.222 ug/l

RT: 2.55 min Scan# 242

Delta R.T. 0.01 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

Instrument :

MSVOA_N

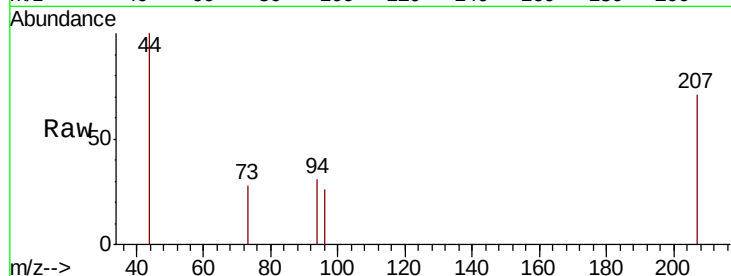
ClientSampleId :

Tot Ion: 94 Resp: 248

Ion Ratio Lower Upper

94 100

96 82.4 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN060892.D (-145) (-)

Ion 95.90 (95.60 to 96.60): VN060892.D (-145) (-)

250

200

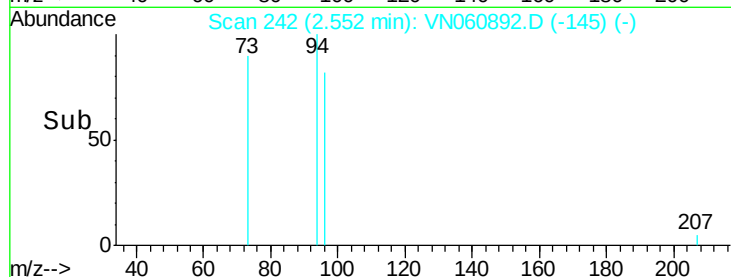
150

100

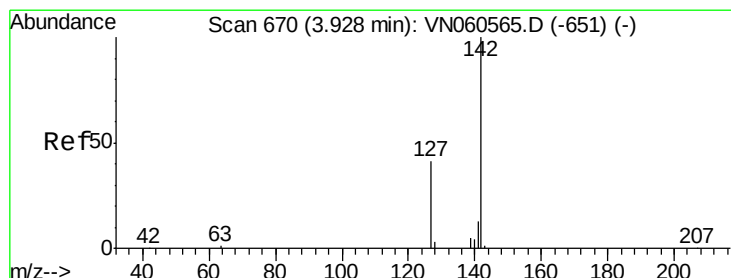
50

0

Time-->



Time-->



#10

Methyl Iodide

Concen: 0.220 ug/l

RT: 3.94 min Scan# 673

Delta R.T. 0.01 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

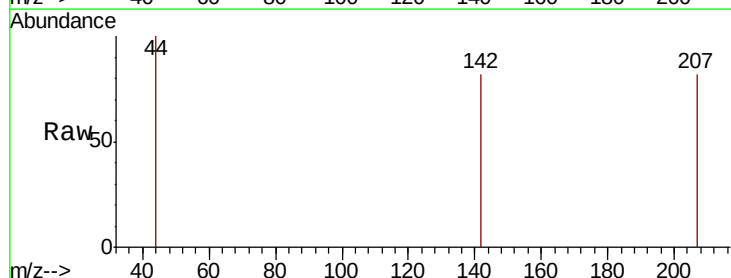
Tgt Ion: 142 Resp: 362

Ion Ratio Lower Upper

142 100

127 0.0 33.5 50.3#

141 0.0 11.0 16.6#



Abundance Ion 141.80 (141.50 to 142.50): VN060892.D (-577) (-)

Ion 126.80 (126.50 to 127.50): VN060892.D (-577) (-)

Ion 140.80 (140.50 to 141.50): VN060892.D (-577) (-)

300

250

200

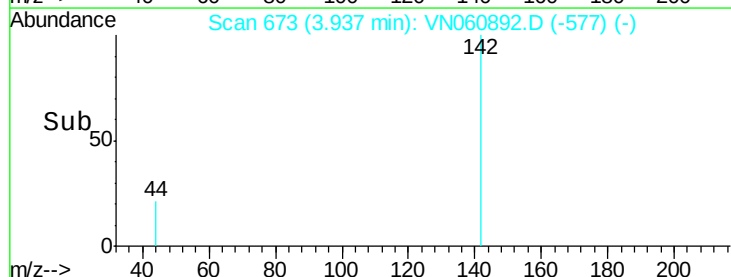
150

100

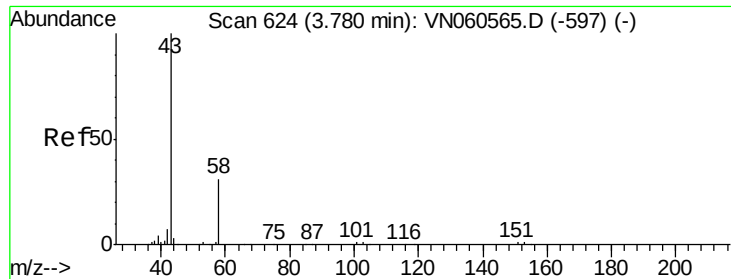
50

0

Time-->



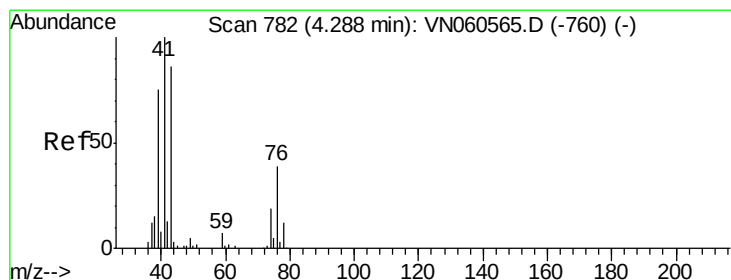
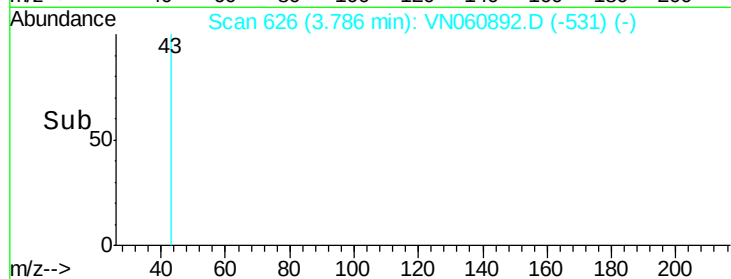
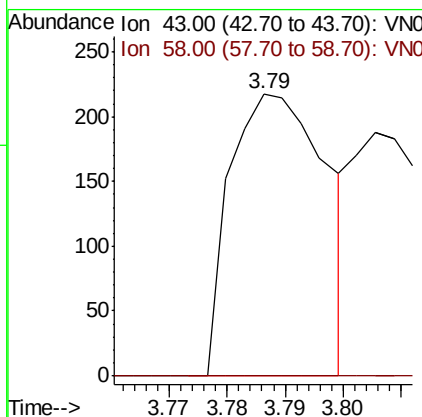
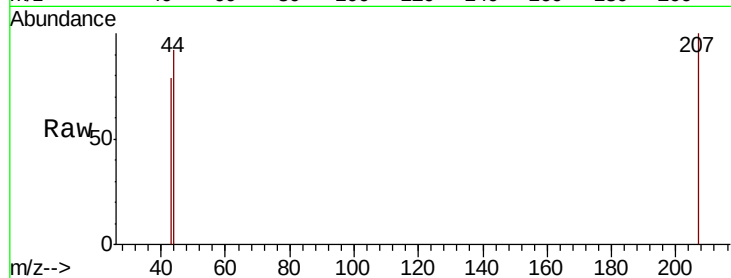
Time-->



#16
Acetone
Concen: 0.280 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

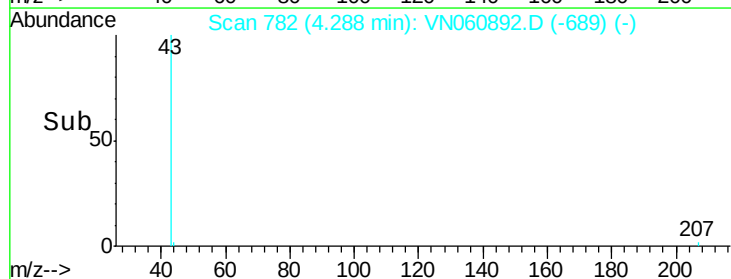
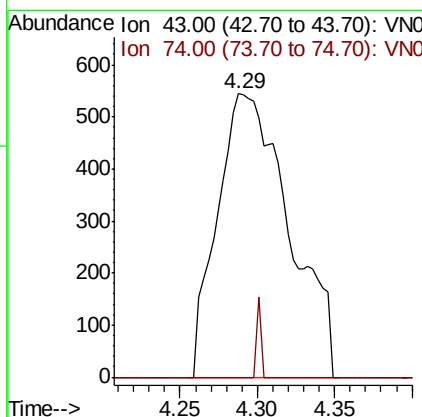
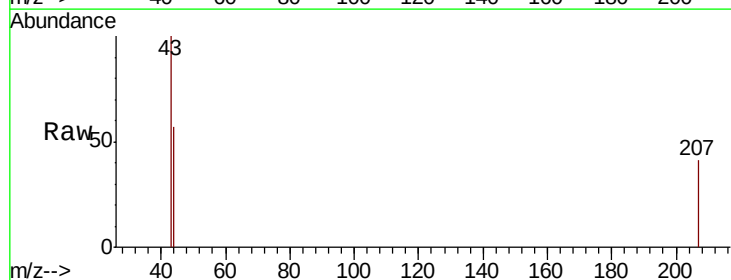
Instrument :
MSVOA_N
ClientSampleId :

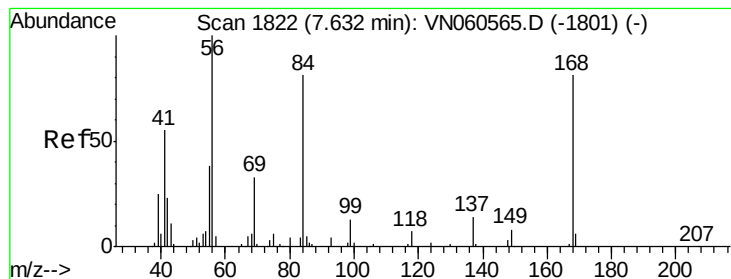
Tot Ion: 43 Resp: 250
Ion Ratio Lower Upper
43 100
58 0.0 25.1 37.7#



#18
Methyl Acetate
Concen: 0.700 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

Tgt Ion: 43 Resp: 1756
Ion Ratio Lower Upper
43 100
74 1.7 17.5 26.3#





#31

Cyclohexane

Concen: 0.959 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

Instrument :

MSVOA_N

ClientSampled :

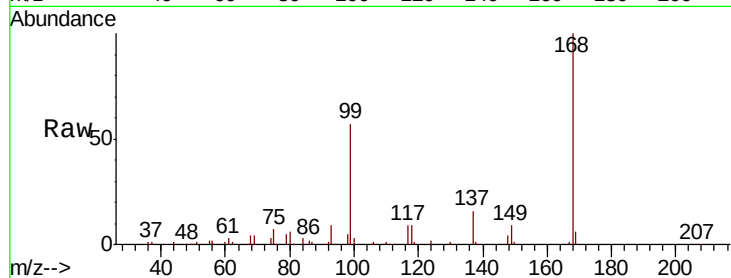
Tot Ion: 56 Resp: 3889

Ion Ratio Lower Upper

56 100

69 168.2 26.6 40.0#

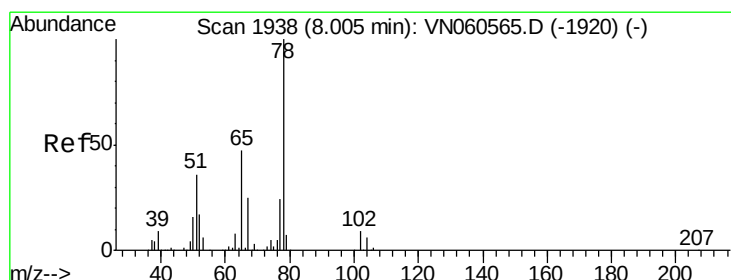
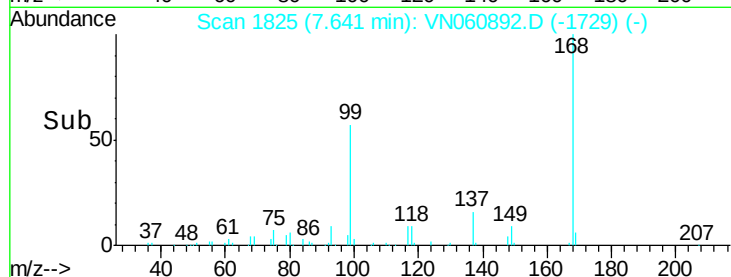
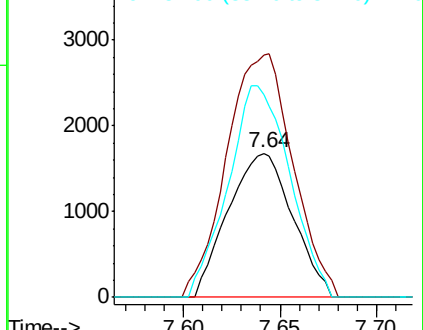
84 140.4 64.3 96.5#



Abundance Ion 56.00 (55.70 to 56.70): VN060892.D (-1729) (-)

Ion 69.00 (68.70 to 69.70): VN060892.D (-1729) (-)

Ion 84.00 (83.70 to 84.70): VN060892.D (-1729) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.985 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. -0.00 min

Lab File: VN060892.D

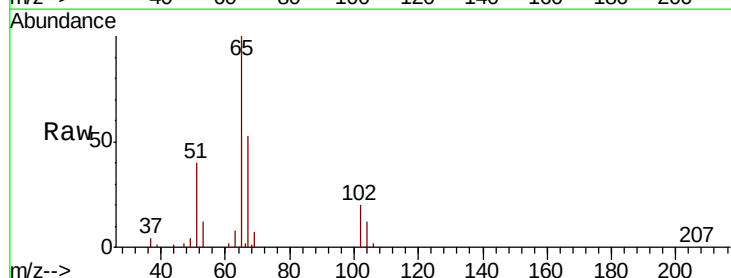
Acq: 8 Apr 2020 11:32

Tgt Ion: 65 Resp: 118249

Ion Ratio Lower Upper

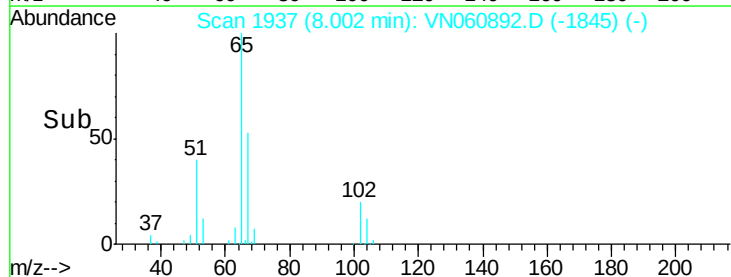
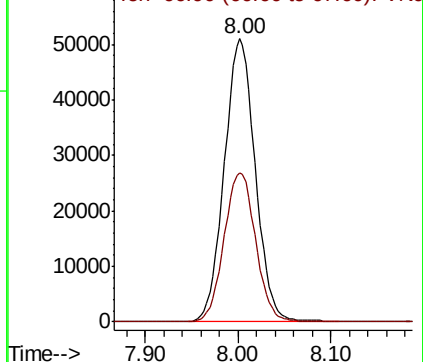
65 100

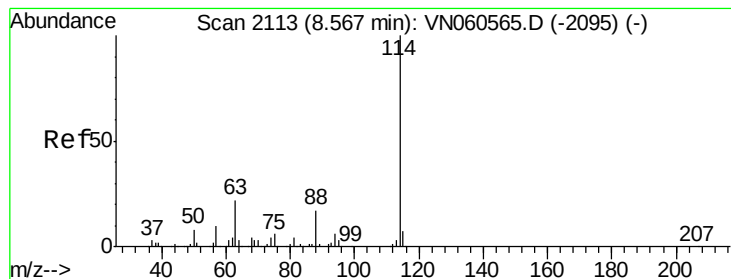
67 53.6 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN060892.D (-1845) (-)

Ion 66.90 (66.60 to 67.60): VN060892.D (-1845) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

Instrument :

MSVOA_N

ClientSampleId :

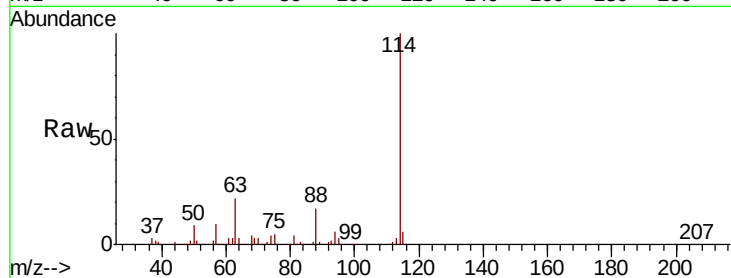
Tot Ion:114 Resp: 303428

Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

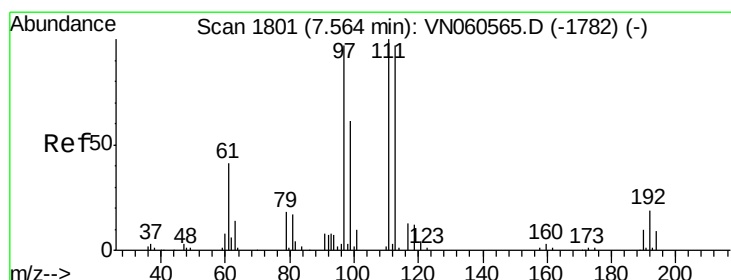
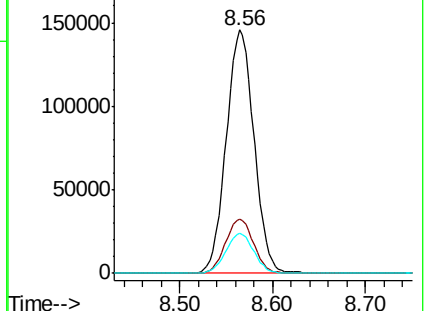
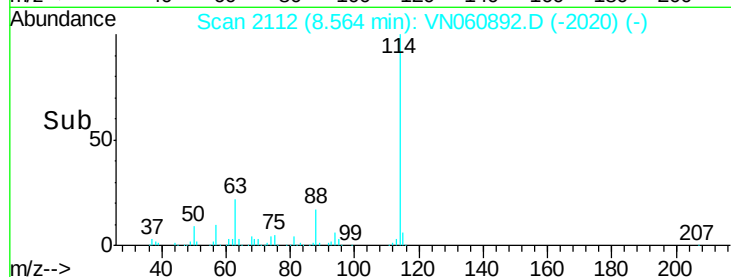
88 16.6 0.0 33.0



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: 49.464 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

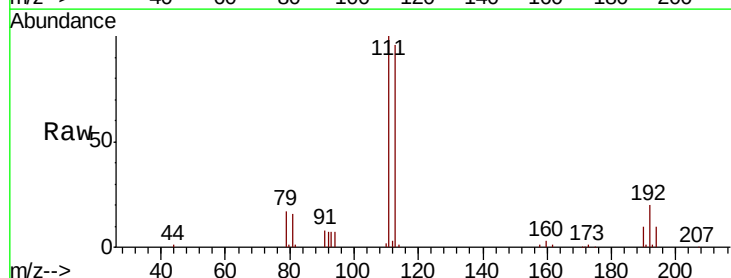
Tgt Ion:113 Resp: 90754

Ion Ratio Lower Upper

113 100

111 103.4 82.9 124.3

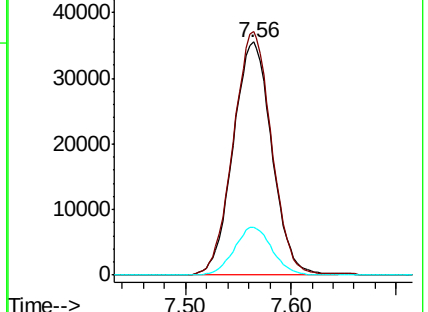
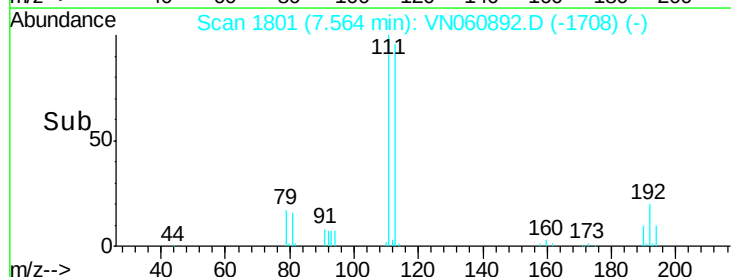
192 19.9 15.8 23.8

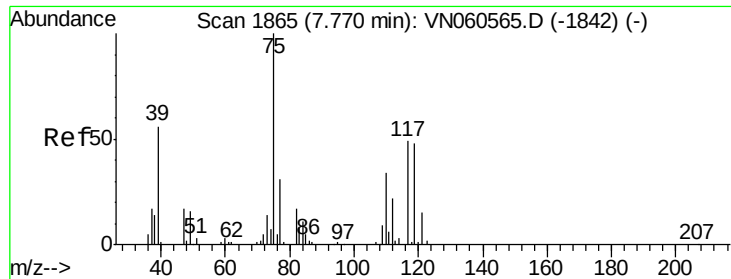


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

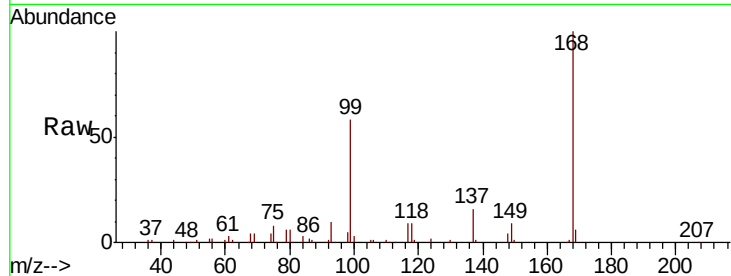




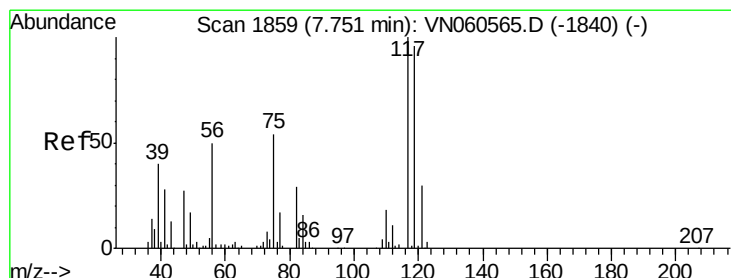
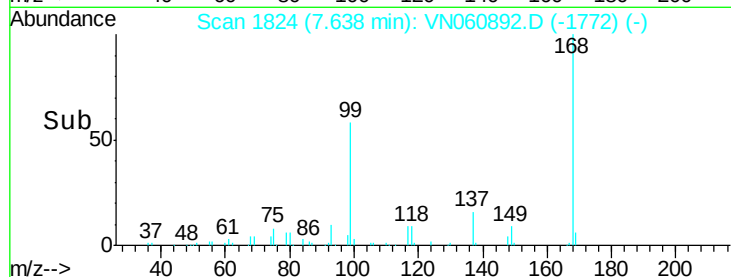
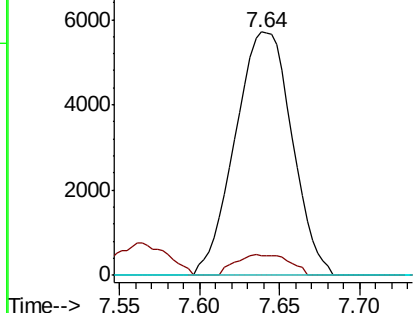
#36
 1,1-Dichloropropene
 Concen: 4.736 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060892.D
 Acq: 8 Apr 2020 11:32

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	75	Resp	13914
Ion Ratio	100	Lower	Upper
75	100		
110	7.8	16.9	50.6#
77	0.0	24.6	36.8#

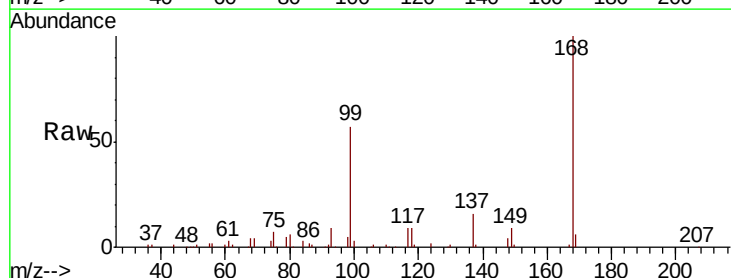


Abundance Ion 74.90 (74.60 to 75.60): VN060892.D (-1772) (-)
 Ion 109.90 (109.60 to 110.60): VN060892.D (-1772) (-)
 Ion 76.90 (76.60 to 77.60): VN060892.D (-1772) (-)

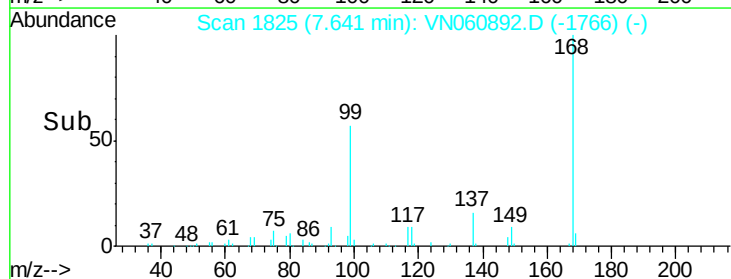
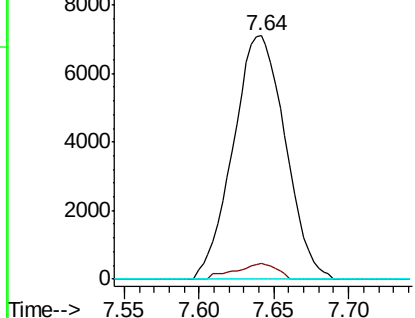


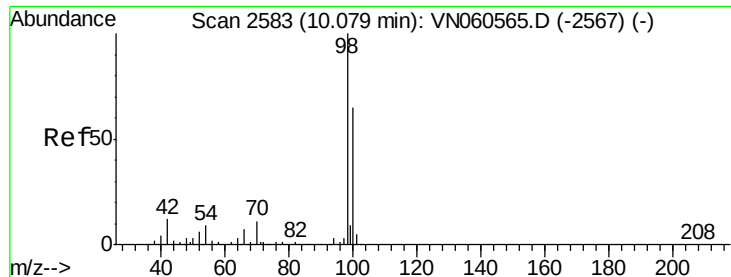
#38
 Carbon Tetrachloride
 Concen: 6.538 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN060892.D
 Acq: 8 Apr 2020 11:32

Tgt Ion	117	Resp	17216
Ion Ratio	100	Lower	Upper
117	100		
119	6.3	76.2	114.2#
121	0.0	23.7	35.5#



Abundance Ion 116.80 (116.50 to 117.50): VN060892.D (-1766) (-)
 Ion 118.80 (118.50 to 119.50): VN060892.D (-1766) (-)
 Ion 120.80 (120.50 to 121.50): VN060892.D (-1766) (-)

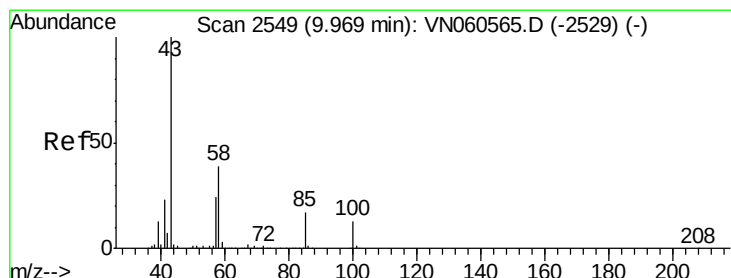
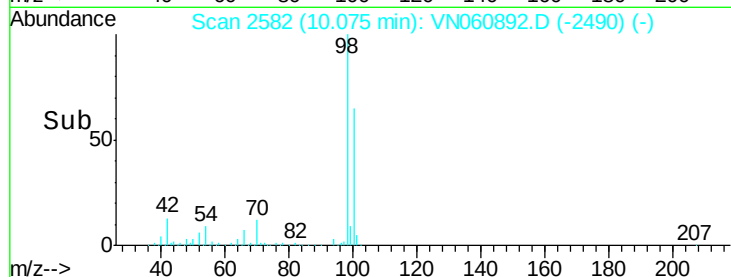
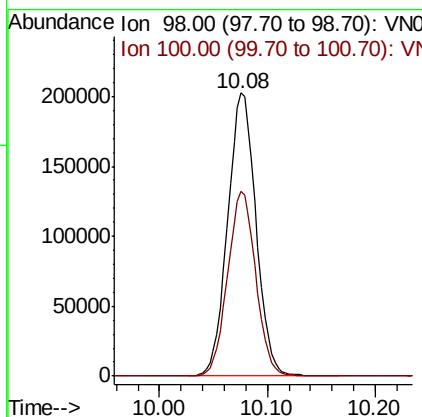
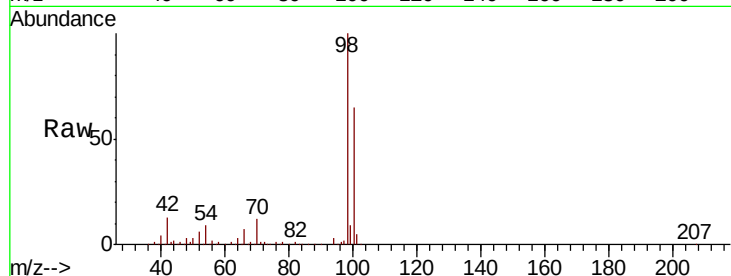




#50
Toluene-d8
Concen: 49.469 ug/l
RT: 10.08 min Scan# 2582
Delta R.T. -0.00 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

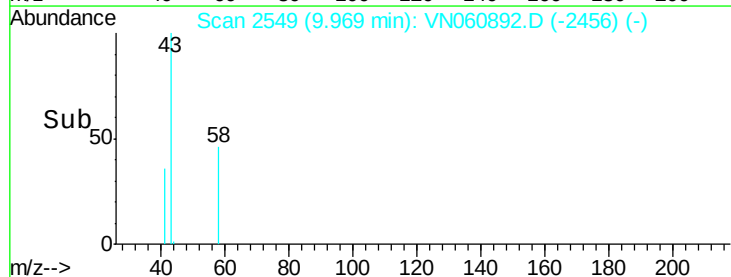
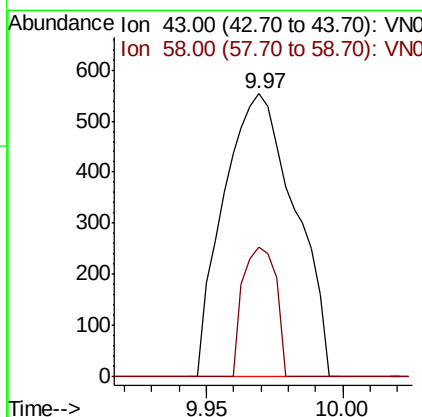
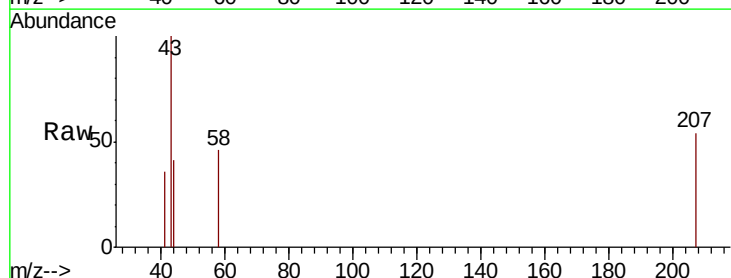
Instrument :
MSVOA_N
ClientSampleId :

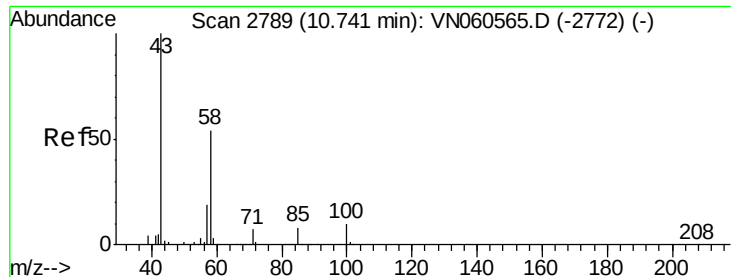
Tot Ion: 98 Resp: 370731
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.8



#51
4-Methyl-2-Pentanone
Concen: 0.337 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

Tgt Ion: 43 Resp: 1004
Ion Ratio Lower Upper
43 100
58 21.2 30.8 46.2#

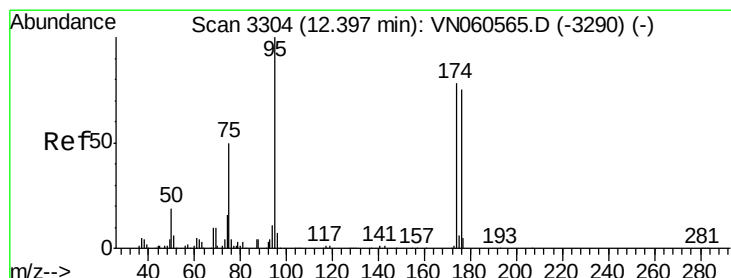
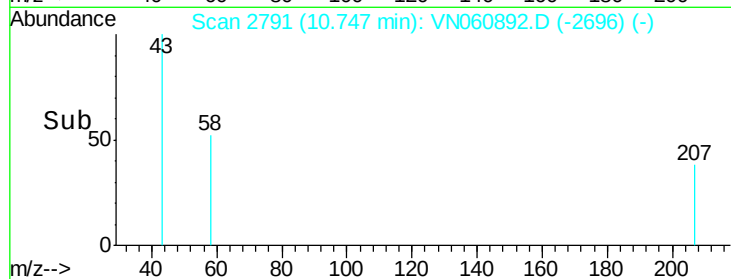
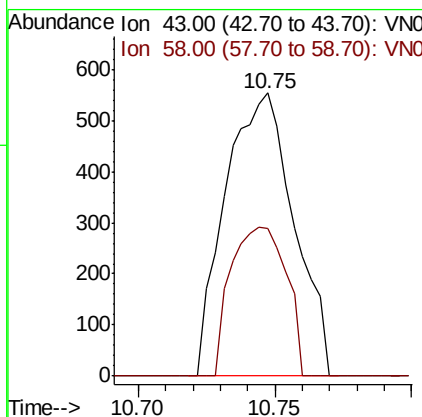
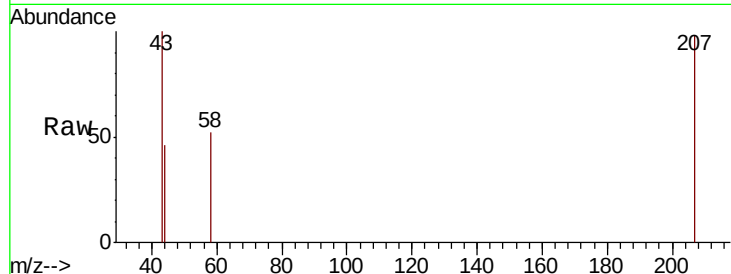




#59
2-Hexanone
Concen: 0.451 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.01 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

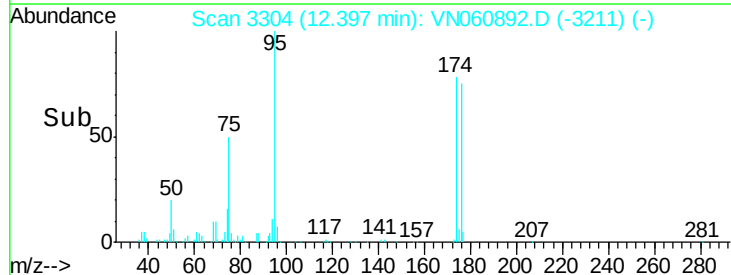
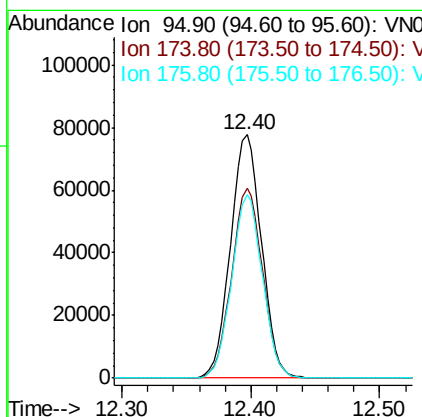
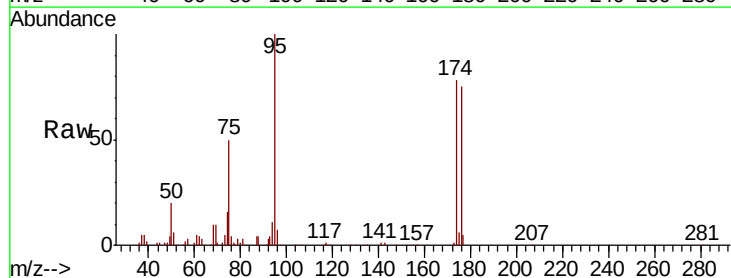
Instrument :
MSVOA_N
ClientSampleId :

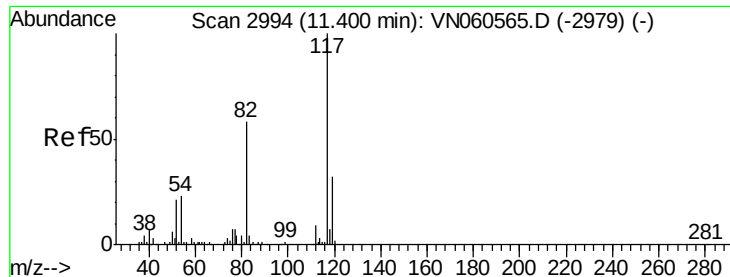
Tot Ion: 43 Resp: 967
Ion Ratio Lower Upper
43 100
58 42.5 26.7 80.1



#62
4-Bromofluorobenzene
Concen: 47.282 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

Tgt Ion: 95 Resp: 129860
Ion Ratio Lower Upper
95 100
174 77.9 0.0 157.6
176 74.6 0.0 150.6

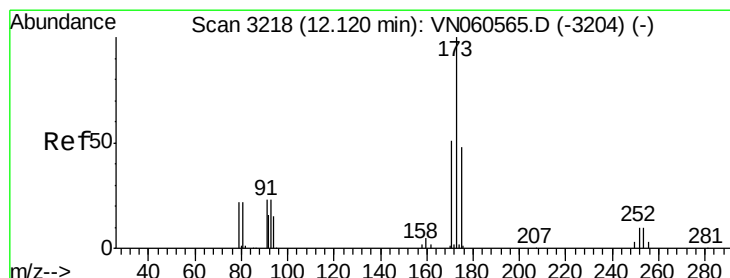
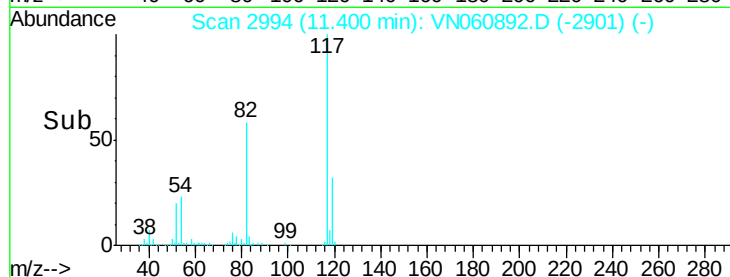
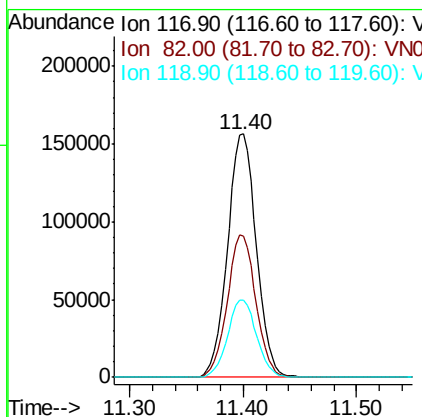
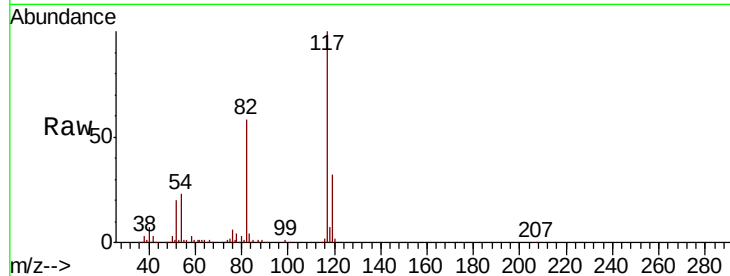




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

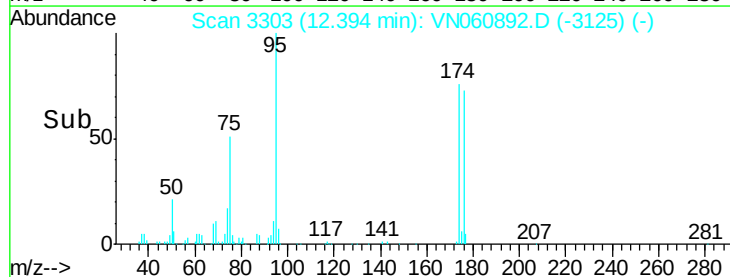
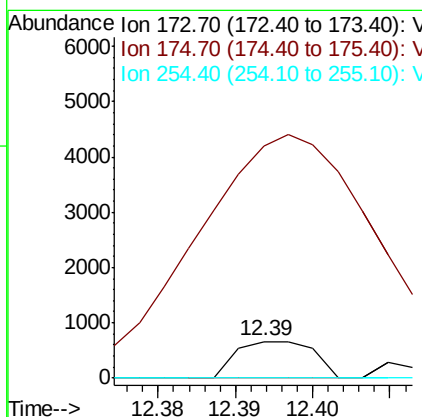
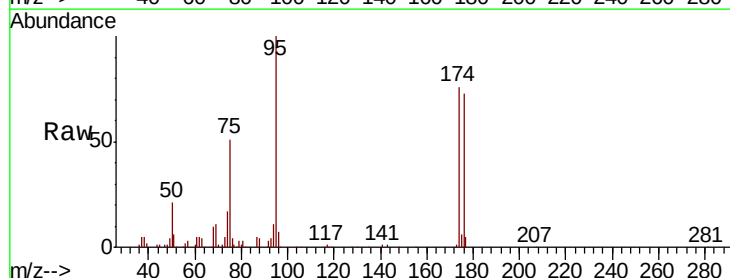
Instrument :
MSVOA_N
ClientSampleId :

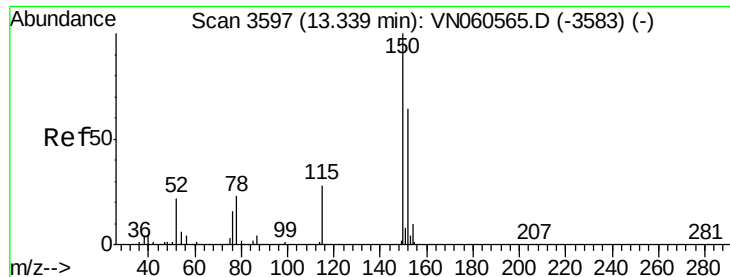
Tot Ion:117 Resp: 276894
Ion Ratio Lower Upper
117 100
82 58.1 46.7 70.1
119 31.9 25.5 38.3



#71
Bromoform
Concen: 1.950 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN060892.D
Acq: 8 Apr 2020 11:32

Tgt Ion:173 Resp: 460
Ion Ratio Lower Upper
173 100
175 1356.5 24.1 72.4#
254 0.0 0.0 0.0

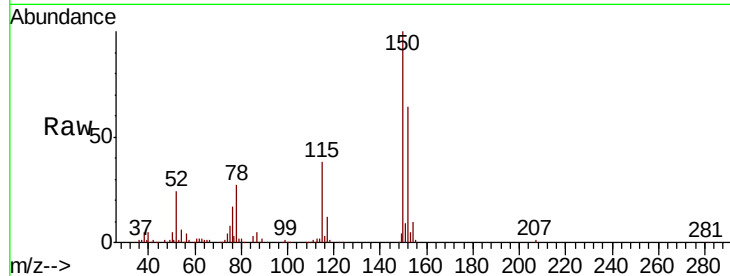




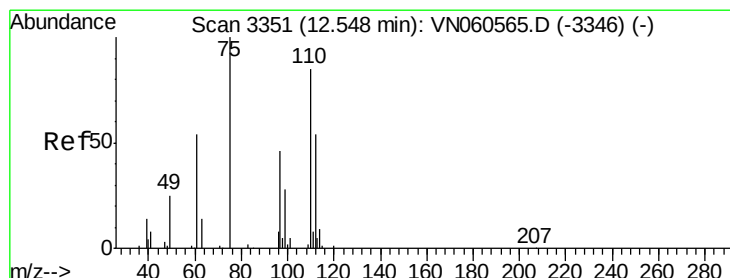
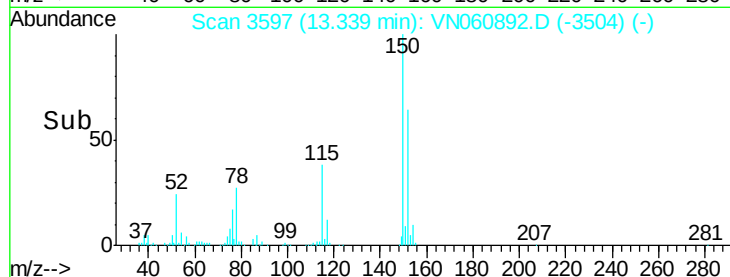
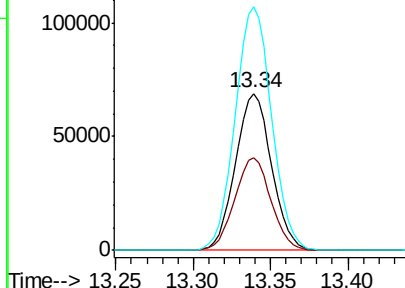
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.00 min
 Lab File: VN060892.D
 Acq: 8 Apr 2020 11:32

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:152 Resp: 111687
 Ion Ratio Lower Upper
 152 100
 115 59.3 30.2 90.6
 150 156.9 0.0 350.2

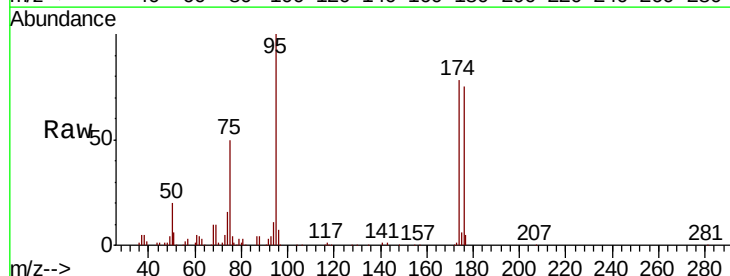


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

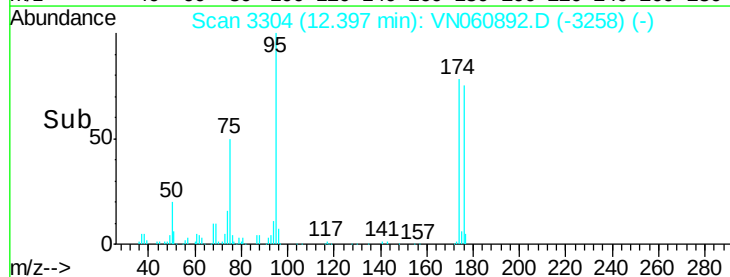
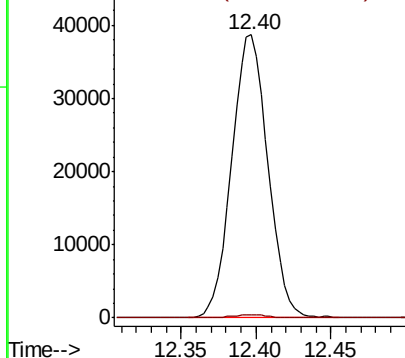


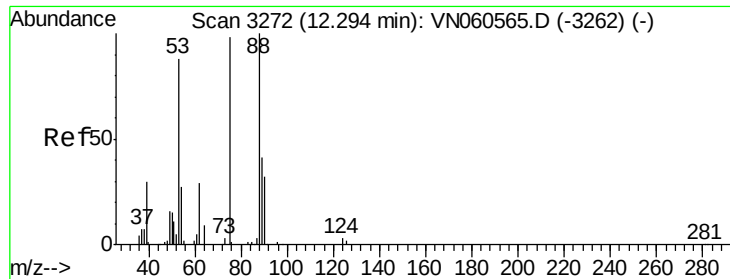
#76
 1,2,3-Trichloropropane
 Concen: 26.961 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.15 min
 Lab File: VN060892.D
 Acq: 8 Apr 2020 11:32

Tgt Ion: 75 Resp: 64975
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 69.244 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

Instrument :

MSVOA_N

ClientSampled :

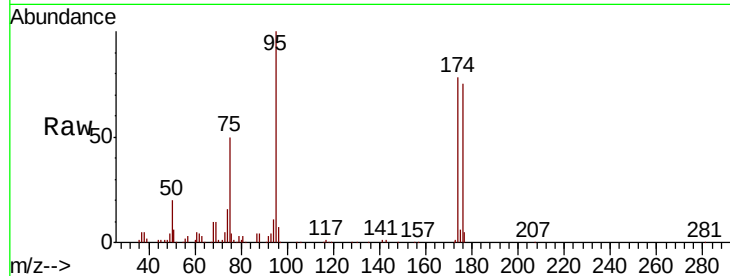
Tot Ion: 75 Resp: 64975

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

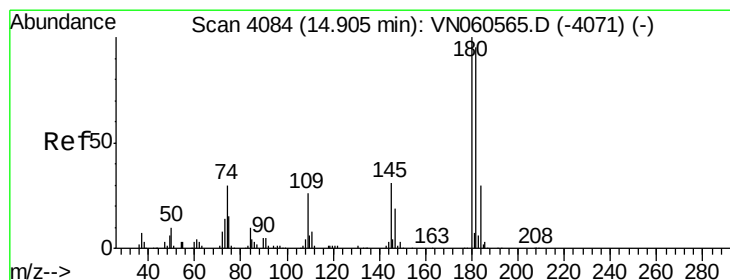
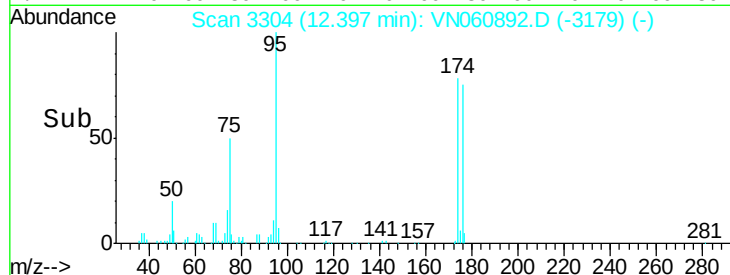
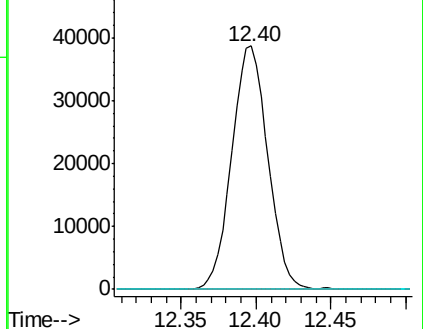
89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060892.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060892.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060892.D (-3179) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.561 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

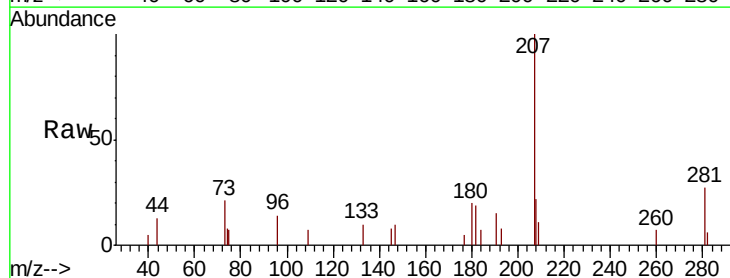
Tgt Ion: 180 Resp: 1174

Ion Ratio Lower Upper

180 100

182 84.4 47.9 143.8

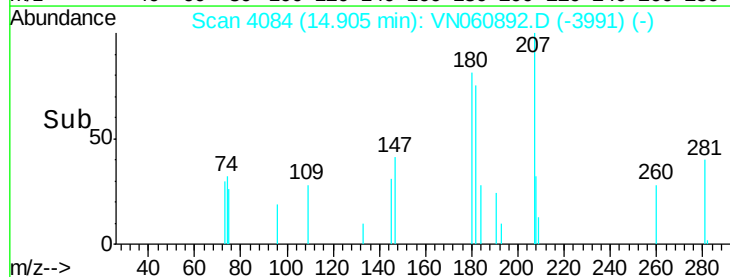
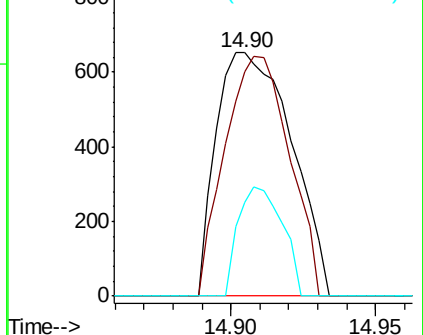
145 26.2 15.4 46.2

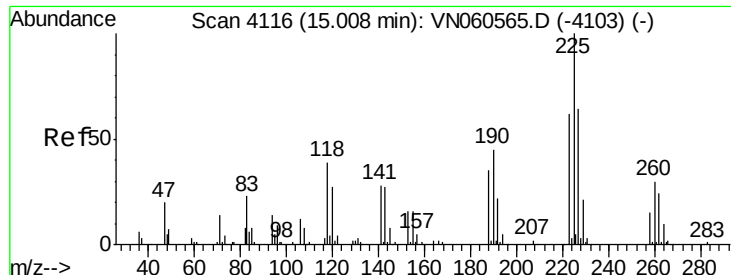


Abundance Ion 179.80 (179.50 to 180.50): VN060892.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN060892.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN060892.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: 0.327 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

Instrument :

MSVOA_N

ClientSampleId :

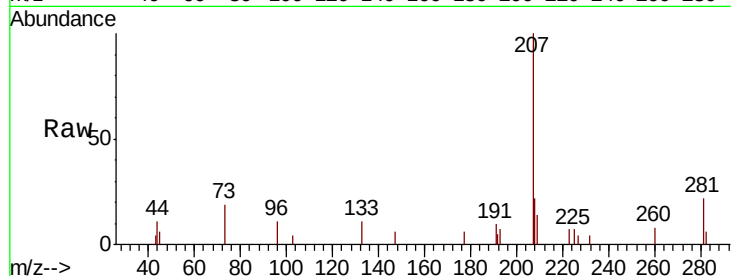
Tot Ion:225 Resp: 335

Ion Ratio Lower Upper

225 100

223 64.2 31.6 95.0

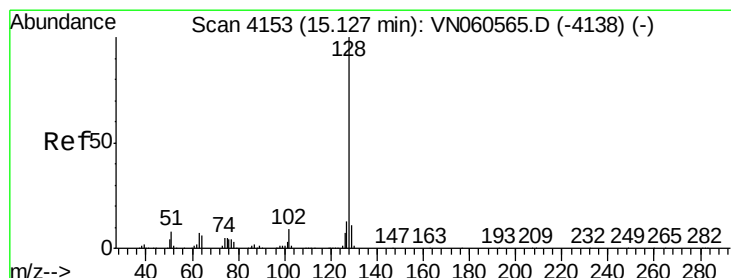
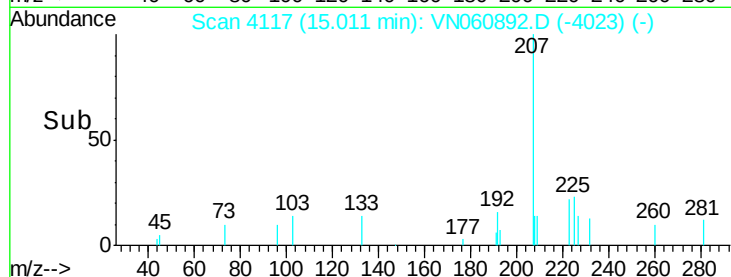
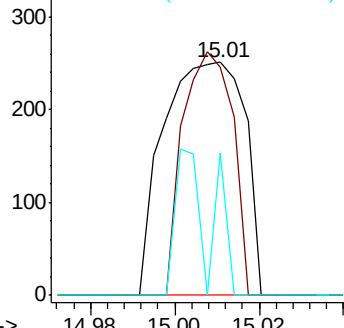
227 26.6 32.3 96.8#



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: 0.825 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.01 min

Lab File: VN060892.D

Acq: 8 Apr 2020 11:32

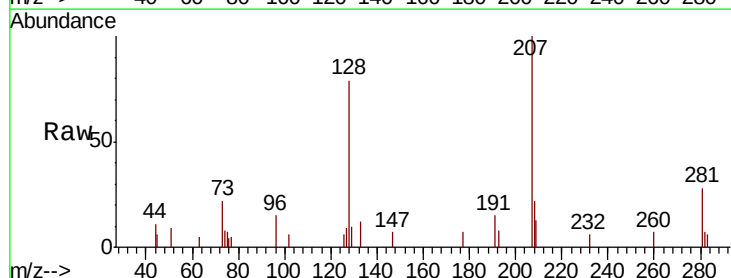
Tgt Ion:128 Resp: 5192

Ion Ratio Lower Upper

128 100

127 10.0 10.2 15.2#

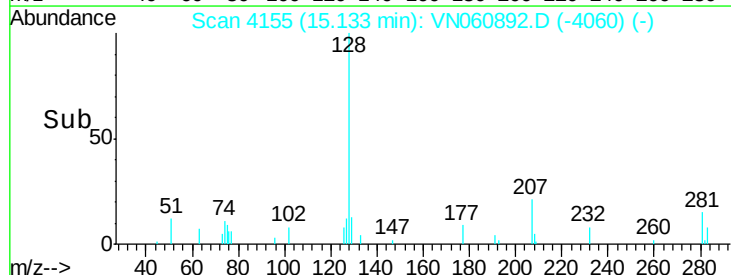
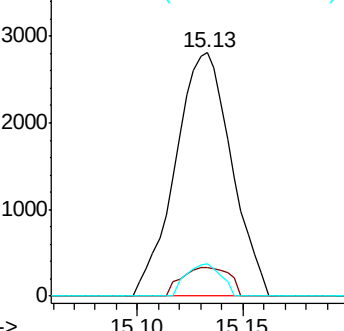
129 8.4 8.8 13.2#

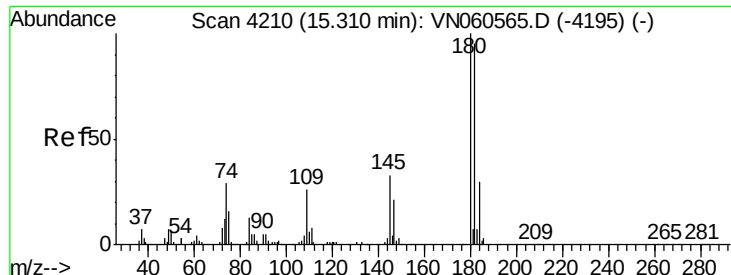


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.808 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN060892.D
 Acq: 8 Apr 2020 11:32

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.5	47.5	142.6
145	28.3	16.3	48.8

