

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN040220\
 Data File : VN060814.D
 Acq On : 2 Apr 2020 11:20
 Operator : JC/MD
 Sample : VN0402WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 03 07:40:06 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	180946	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	297844	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	263031	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	99960	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	114117	45.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.88%	
35) Dibromofluoromethane	7.56	113	88032	48.88	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.76%	
50) Toluene-d8	10.08	98	360157	48.96	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.92%	
62) 4-Bromofluorobenzene	12.40	95	122289	45.36	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.72%	

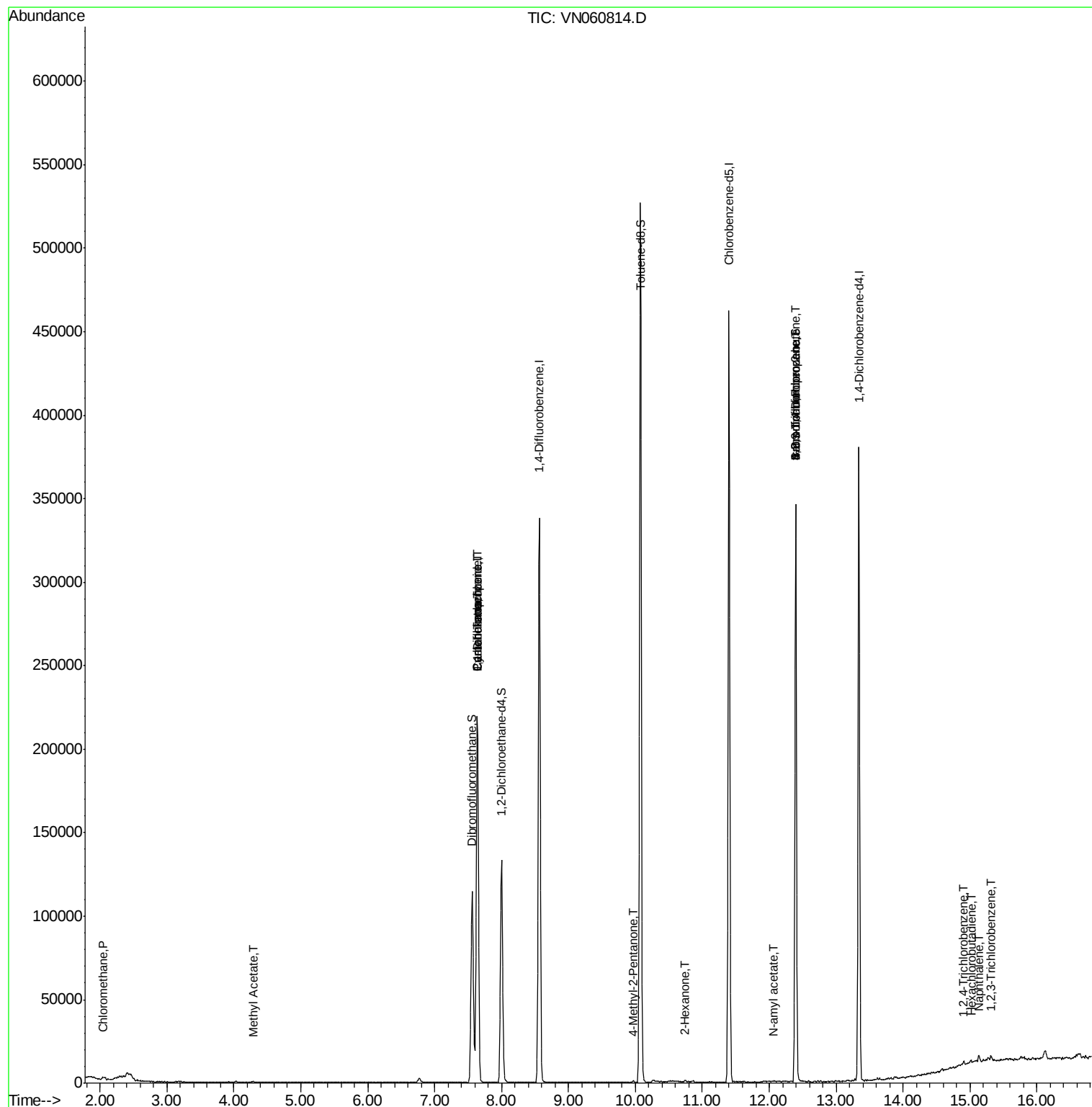
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1043	0.319	ug/l	91
18) Methyl Acetate	4.29	43	1243	0.502	ug/l #	54
31) Cyclohexane	7.64	56	3663	0.916	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13657	4.735	ug/l #	46
38) Carbon Tetrachloride	7.64	117	17466	6.757	ug/l #	16
51) 4-Methyl-2-Pentanone	9.97	43	800	0.274	ug/l #	58
59) 2-Hexanone	10.74	43	777	0.369	ug/l	79
71) Bromoform	12.39	173	284	1.855	ug/l #	1
74) N-amyl acetate	12.07	43	716	0.207	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	61112	28.333	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	61112	72.767	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	942	0.503	ug/l	81
94) Hexachlorobutadiene	15.01	225	297	0.324	ug/l	78
95) Naphthalene	15.13	128	3572	0.634	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.31	180	1210	0.656	ug/l	85

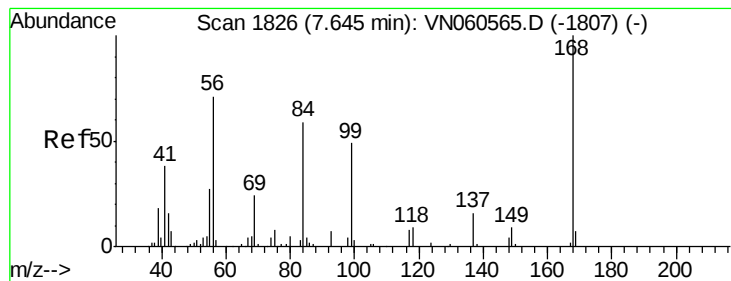
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN060814.D

Acq: 2 Apr 2020 11:20

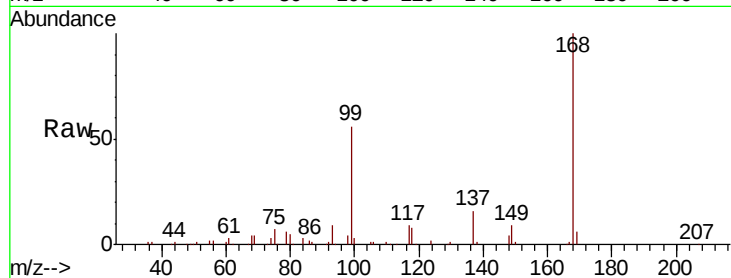
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 180946

Ion Ratio Lower Upper

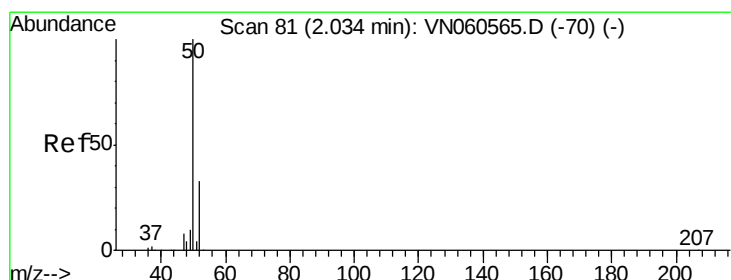
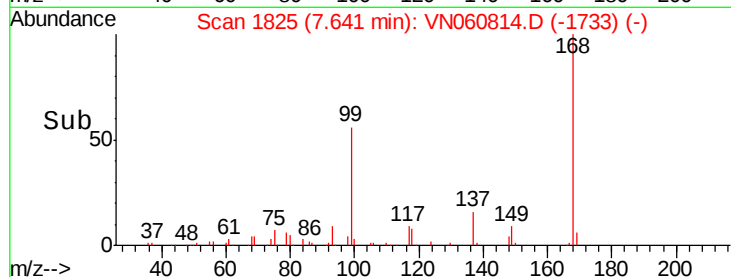
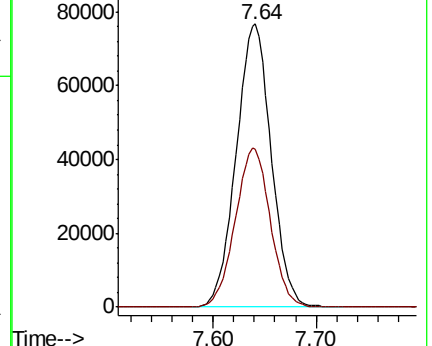
168 100

99 55.7 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: 0.319 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN060814.D

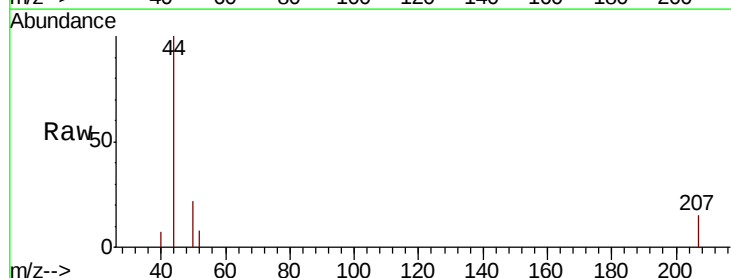
Acq: 2 Apr 2020 11:20

Tgt Ion: 50 Resp: 1043

Ion Ratio Lower Upper

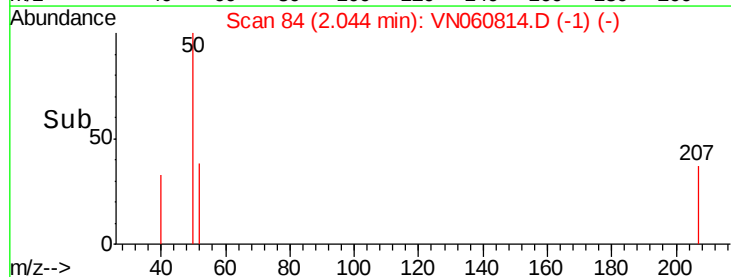
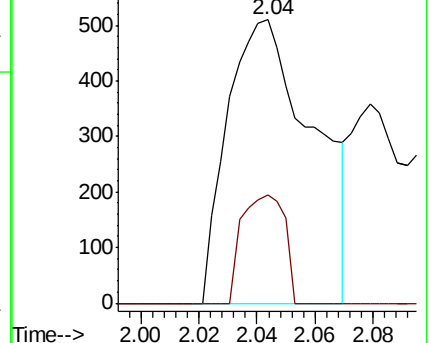
50 100

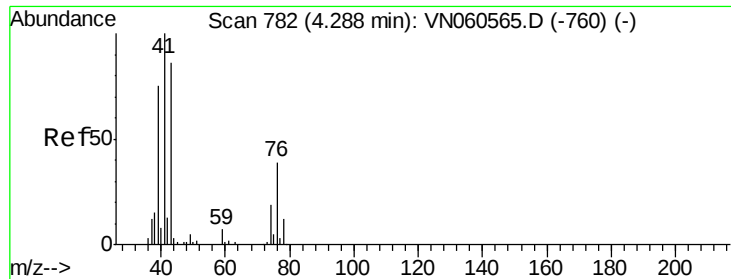
52 38.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

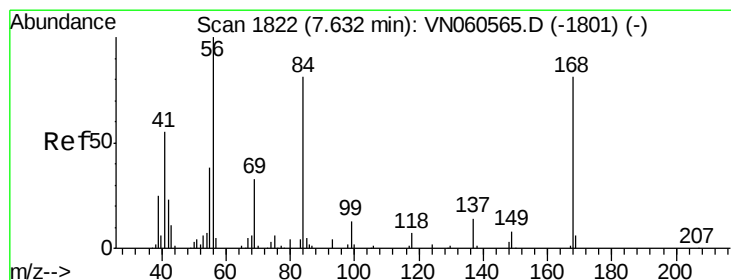
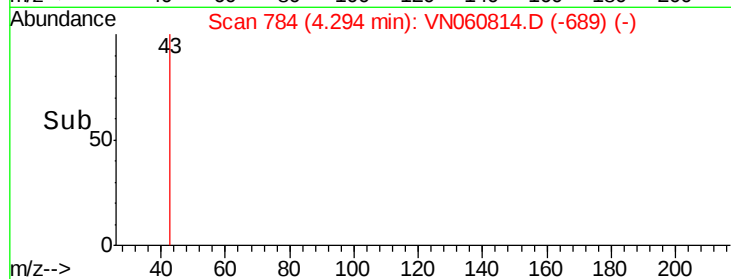
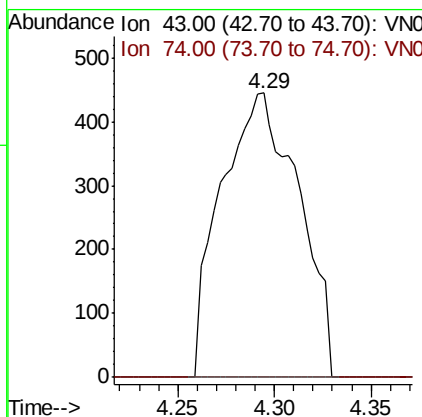
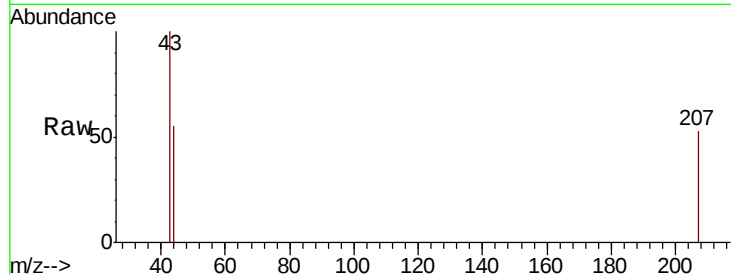




#18
Methvl Acetate
Concen: 0.502 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060814.D
Acq: 2 Apr 2020 11:20

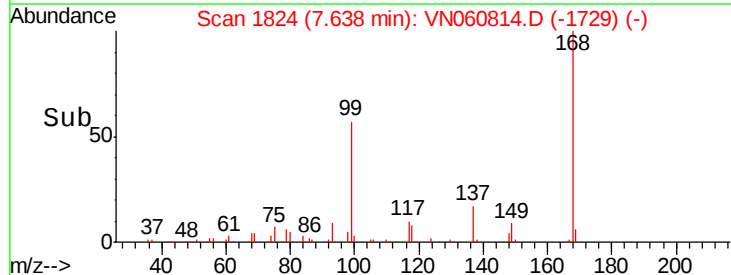
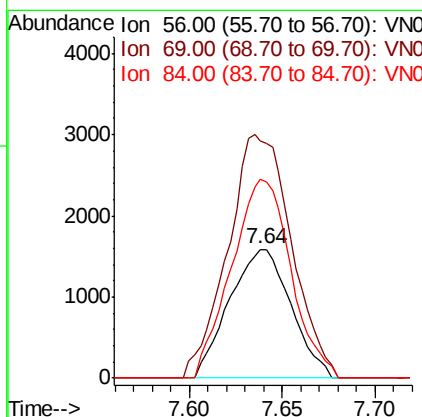
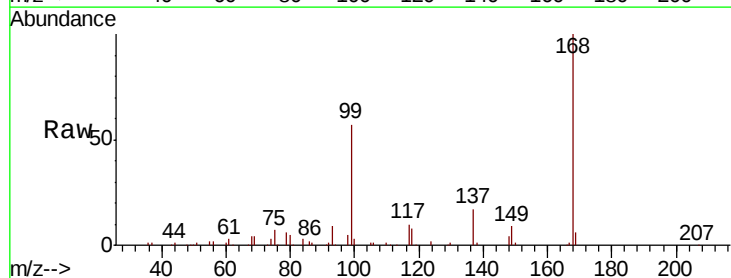
Instrument :
MSVOA_N
ClientSampleId :

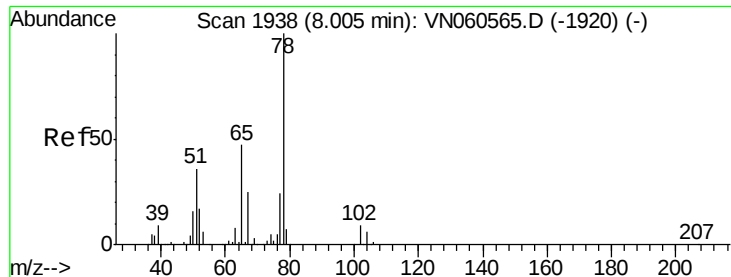
Tot Ion: 43 Resp: 1243
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#



#31
Cyclohexane
Concen: 0.916 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN060814.D
Acq: 2 Apr 2020 11:20

Tgt Ion: 56 Resp: 3663
Ion Ratio Lower Upper
56 100
69 183.4 26.6 40.0#
84 153.8 64.3 96.5#





#33

1,2-Dichloroethane-d4

Concen: 45.941 ug/l

RT: 8.00 min Scan# 1936

Delta R.T. -0.01 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

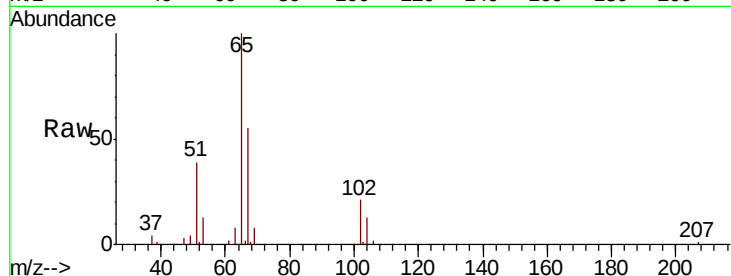
ClientSampled :

Tot Ion: 65 Resp: 114117

Ion Ratio Lower Upper

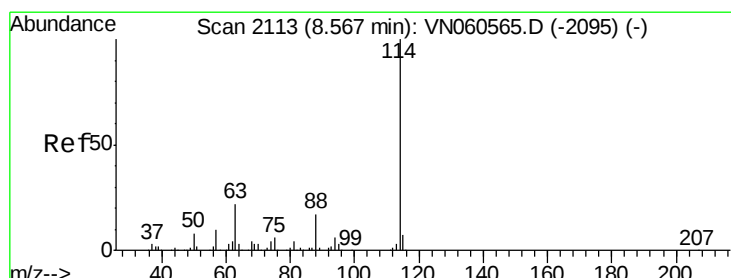
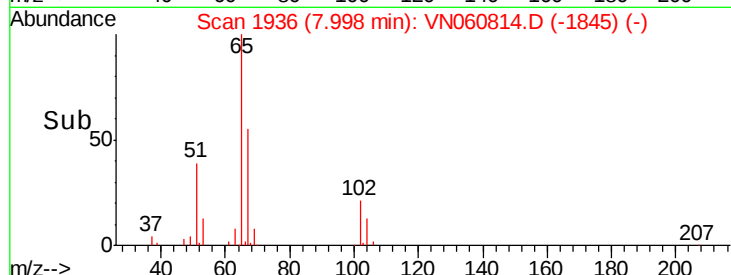
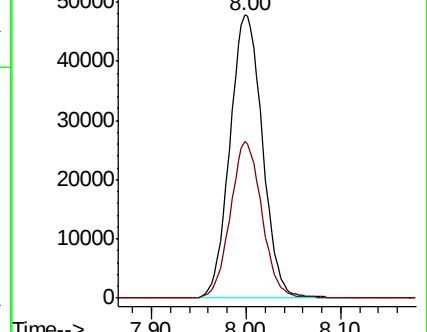
65 100

67 53.7 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. -0.00 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

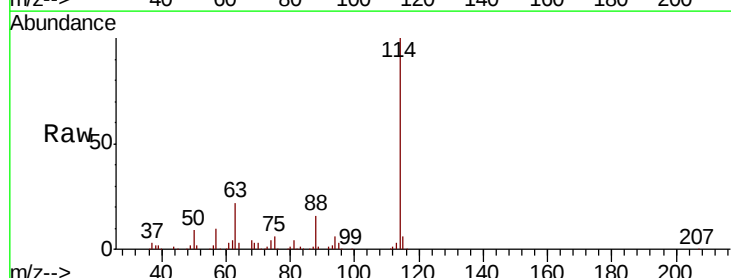
Tgt Ion: 114 Resp: 297844

Ion Ratio Lower Upper

114 100

63 22.4 0.0 43.8

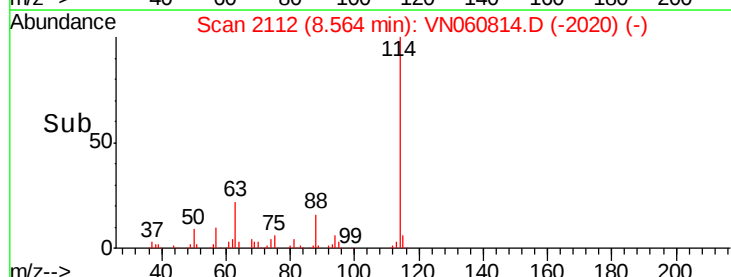
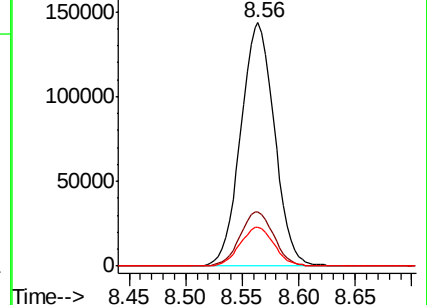
88 16.2 0.0 33.0

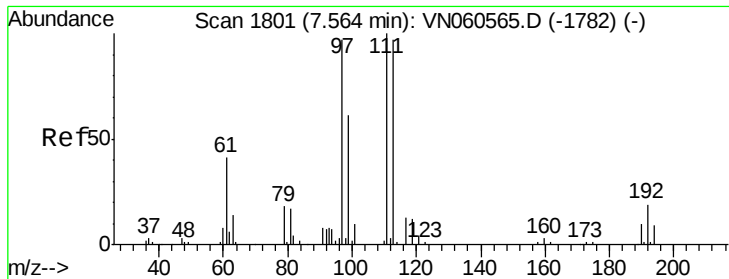


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

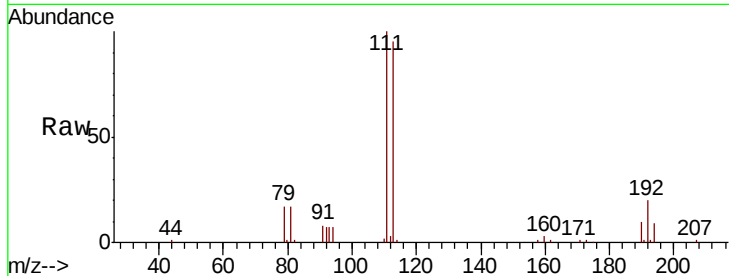




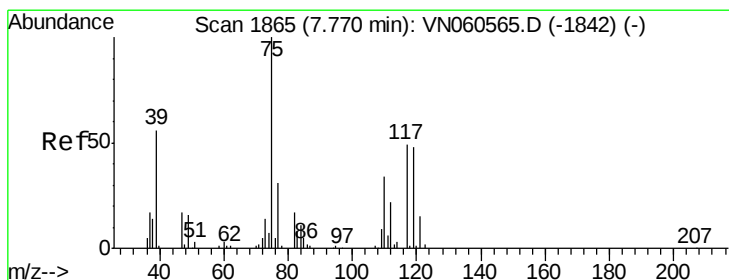
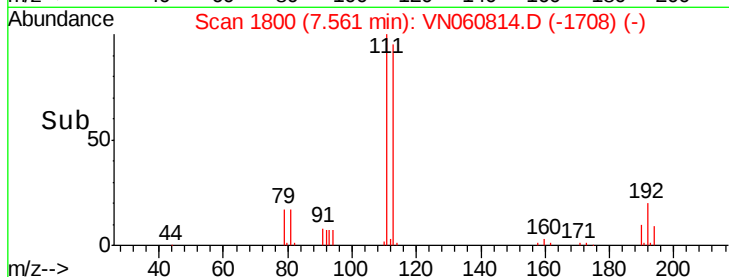
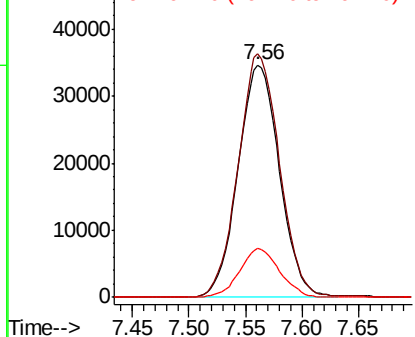
#35
 Dibromofluoromethane
 Concen: 48.880 ug/l
 RT: 7.56 min Scan# 1800
 Delta R.T. -0.00 min
 Lab File: VN060814.D
 Acq: 2 Apr 2020 11:20

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 88032
 Ion Ratio Lower Upper
 113 100
 111 104.2 82.9 124.3
 192 20.3 15.8 23.8

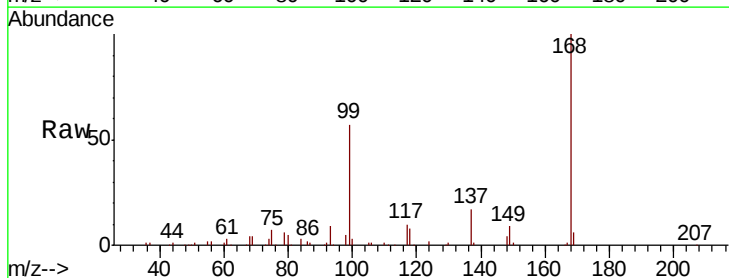


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

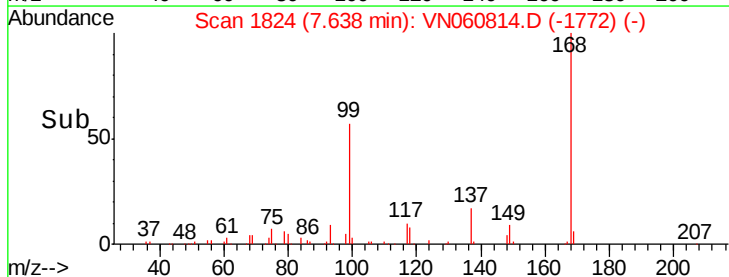
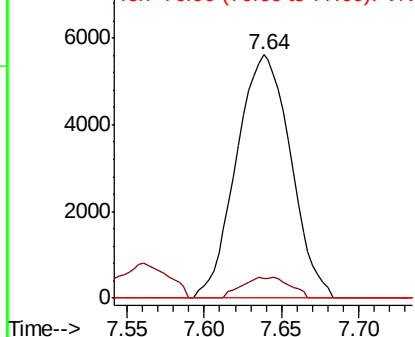


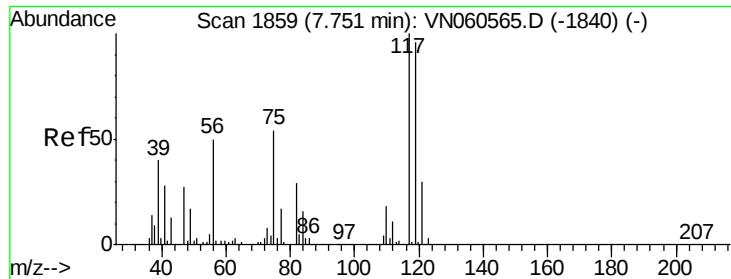
#36
 1,1-Dichloropropene
 Concen: 4.735 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN060814.D
 Acq: 2 Apr 2020 11:20

Tgt Ion: 75 Resp: 13657
 Ion Ratio Lower Upper
 75 100
 110 4.3 16.9 50.6#
 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: 6.757 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

ClientSampleId :

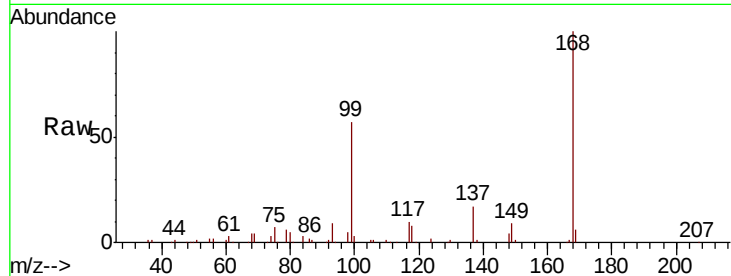
Tot Ion:117 Resp: 17466

Ion Ratio Lower Upper

117 100

119 4.7 76.2 114.2#

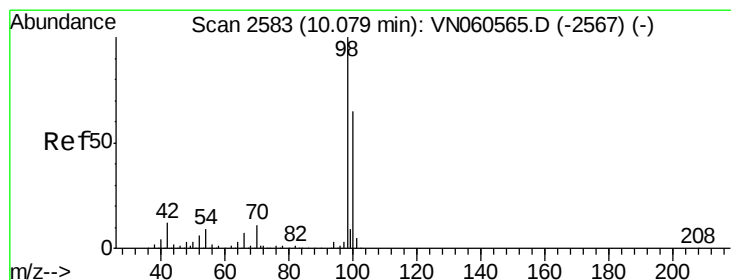
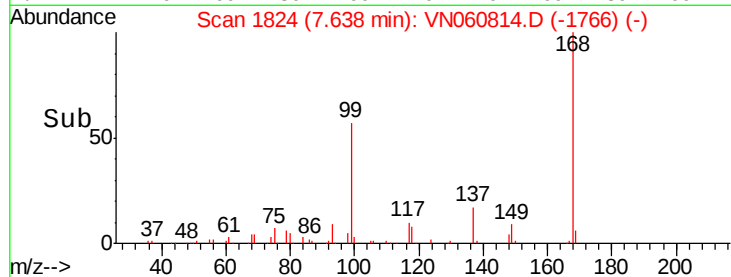
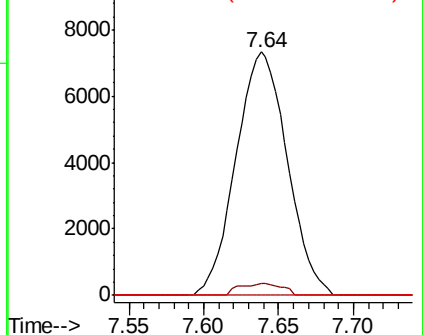
121 0.0 23.7 35.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.959 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. -0.00 min

Lab File: VN060814.D

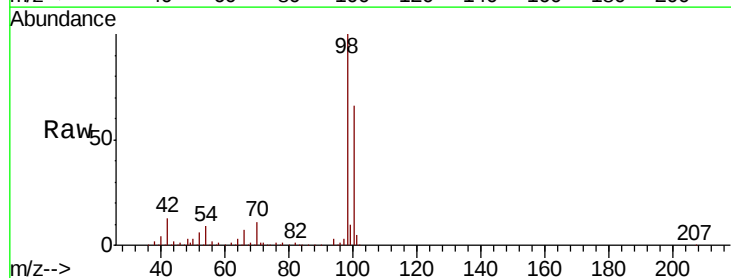
Acq: 2 Apr 2020 11:20

Tgt Ion: 98 Resp: 360157

Ion Ratio Lower Upper

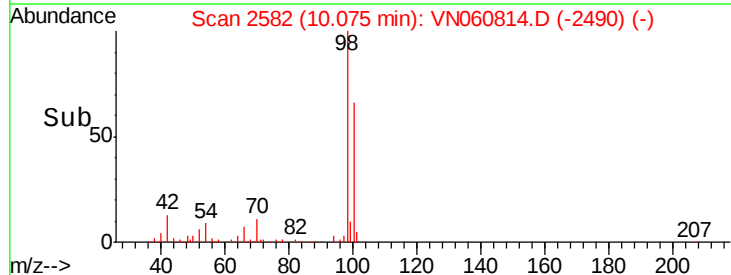
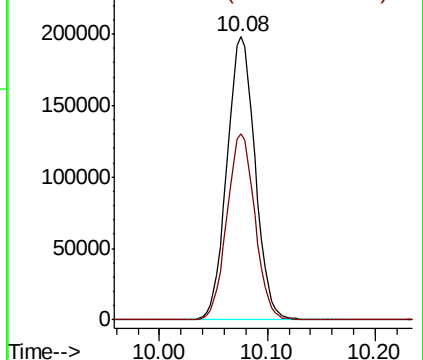
98 100

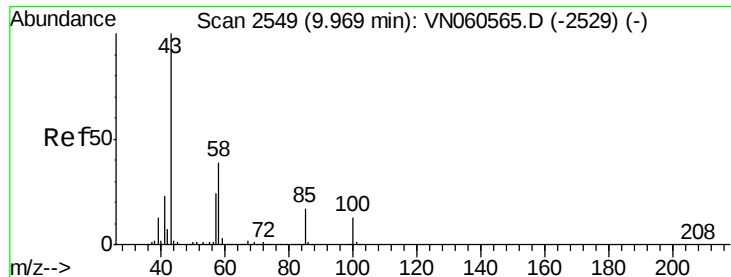
100 65.5 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

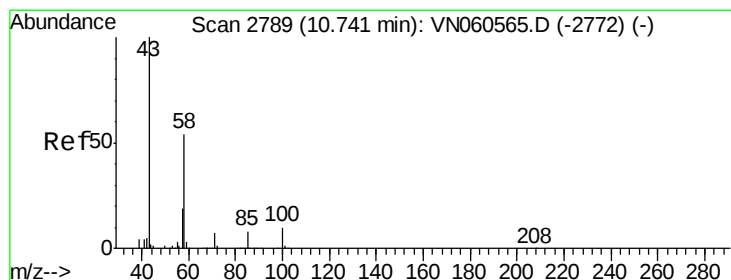
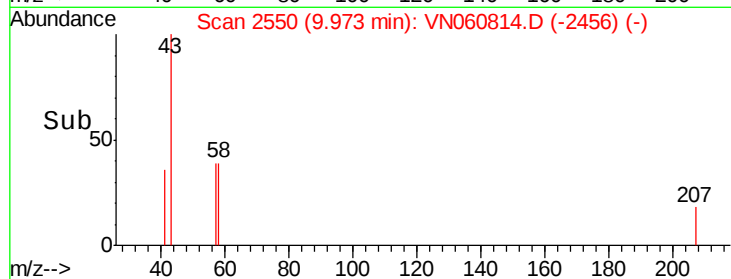
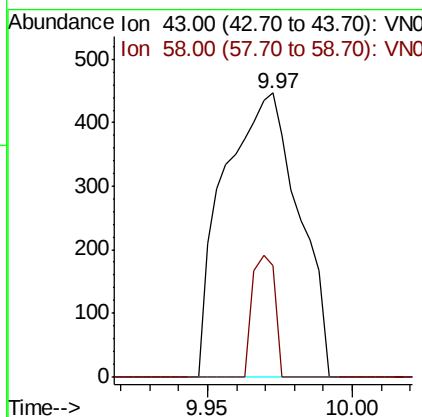
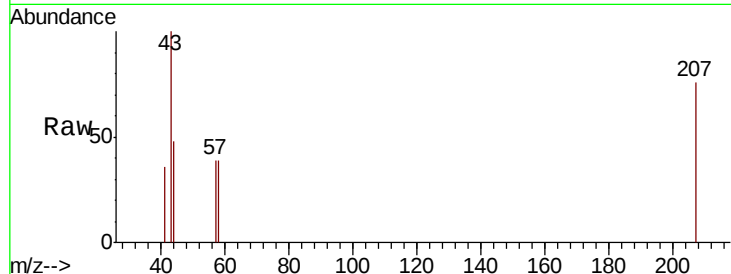




#51
 4-Methyl-2-Pentanone
 Concen: 0.274 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN060814.D
 Acq: 2 Apr 2020 11:20

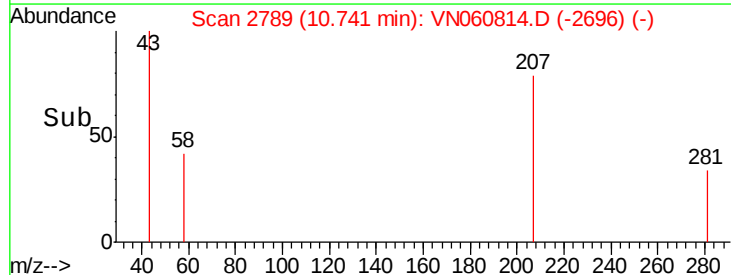
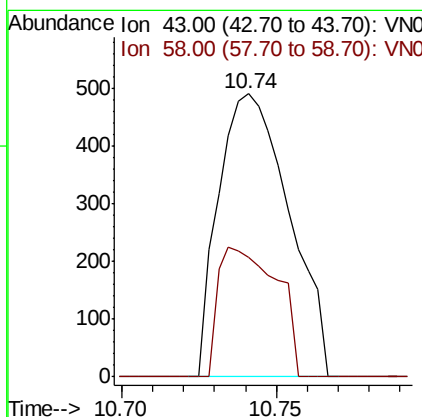
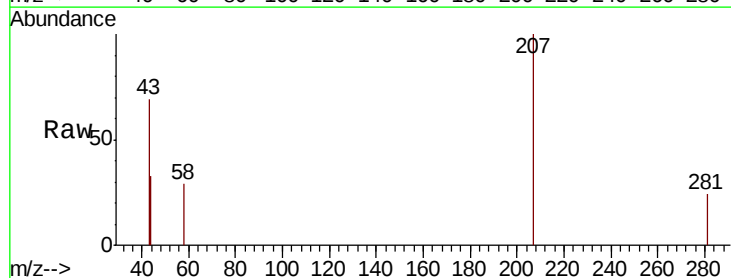
Instrument :
 MSVOA_N
 ClientSampled :

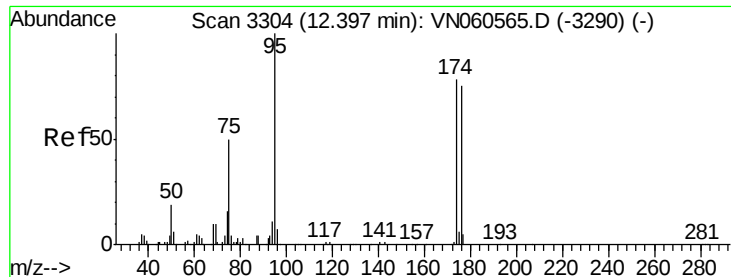
Tot Ion: 43 Resp: 800
 Ion Ratio Lower Upper
 43 100
 58 12.9 30.8 46.2#



#59
 2-Hexanone
 Concen: 0.369 ug/l
 RT: 10.74 min Scan# 2789
 Delta R.T. 0.00 min
 Lab File: VN060814.D
 Acq: 2 Apr 2020 11:20

Tgt Ion: 43 Resp: 777
 Ion Ratio Lower Upper
 43 100
 58 38.1 26.7 80.1





#62

4-Bromofluorobenzene

Concen: 45.360 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

ClientSampled :

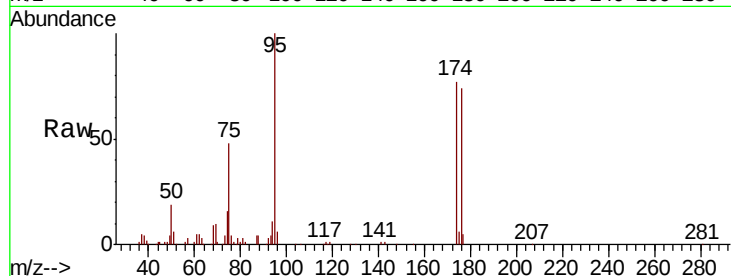
Tot Ion: 95 Resp: 122289

Ion Ratio Lower Upper

95 100

174 78.1 0.0 157.6

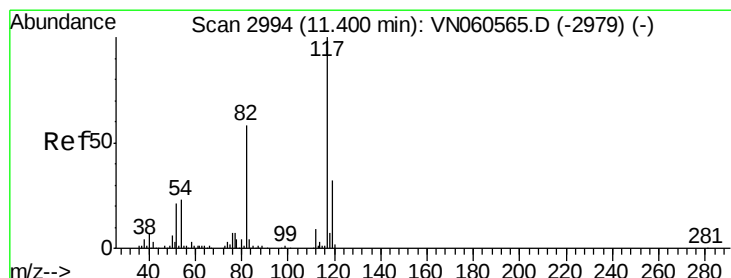
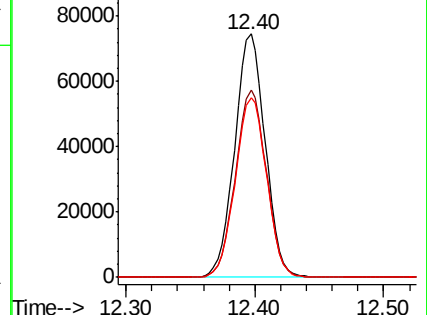
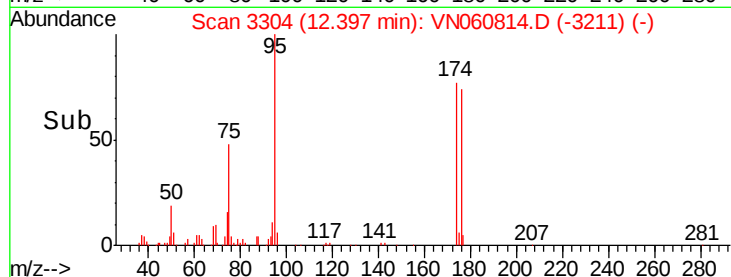
176 75.9 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060814.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN060814.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN060814.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2993

Delta R.T. -0.00 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

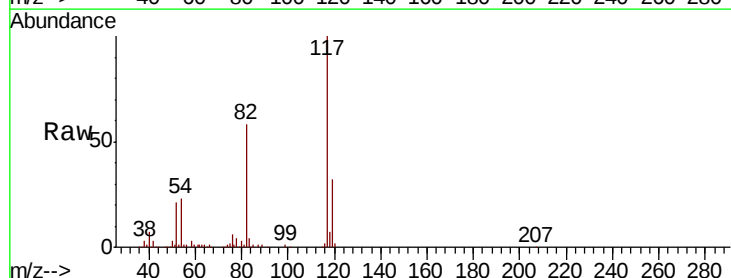
Tgt Ion: 117 Resp: 263031

Ion Ratio Lower Upper

117 100

82 58.2 46.7 70.1

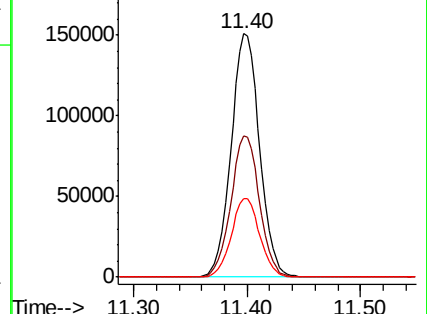
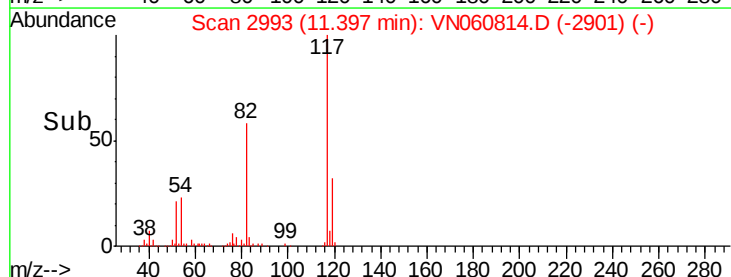
119 32.2 25.5 38.3

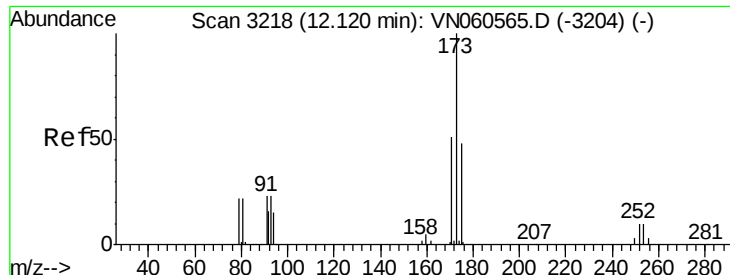


Abundance Ion 116.90 (116.60 to 117.60): VN060814.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN060814.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN060814.D (-2901) (-)





#71

Bromoform

Concen: 1.855 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

ClientSampled :

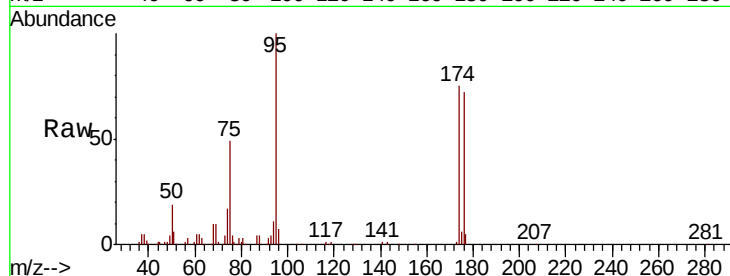
Tot Ion:173 Resp: 284

Ion Ratio Lower Upper

173 100

175 2087.7 24.1 72.4#

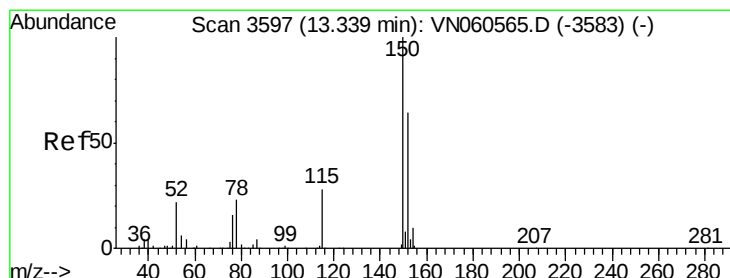
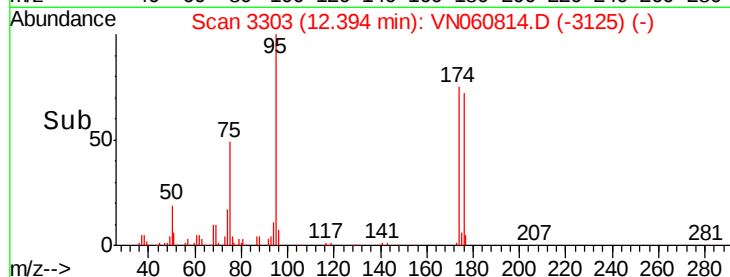
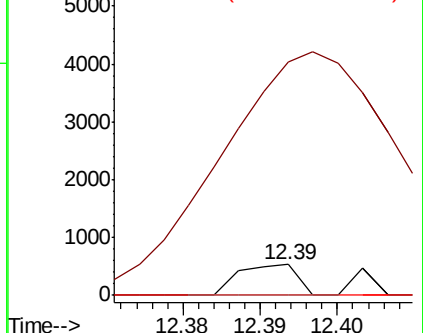
254 0.0 0.0 0.0



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: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

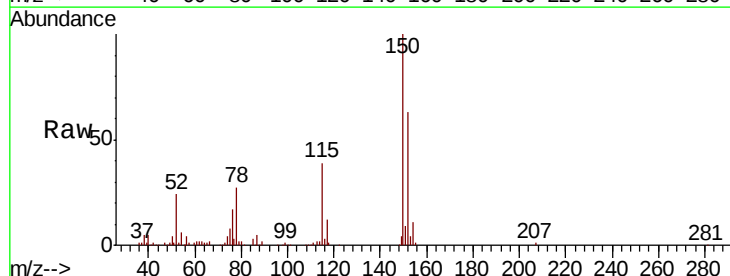
Tgt Ion:152 Resp: 99960

Ion Ratio Lower Upper

152 100

115 60.7 30.2 90.6

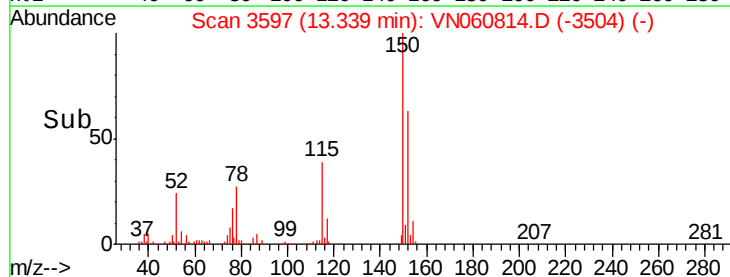
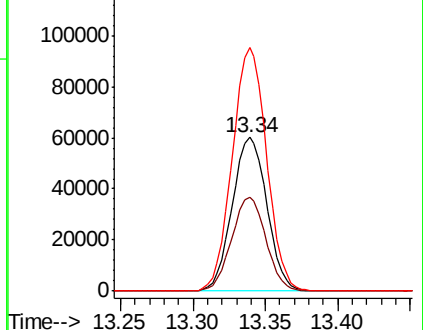
150 156.9 0.0 350.2

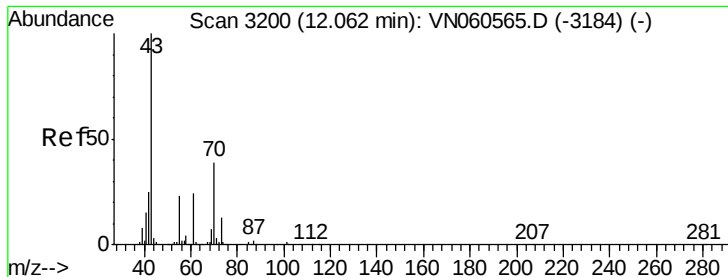


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.207 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.01 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 716

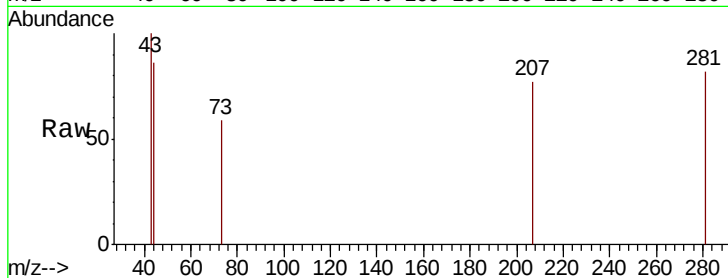
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

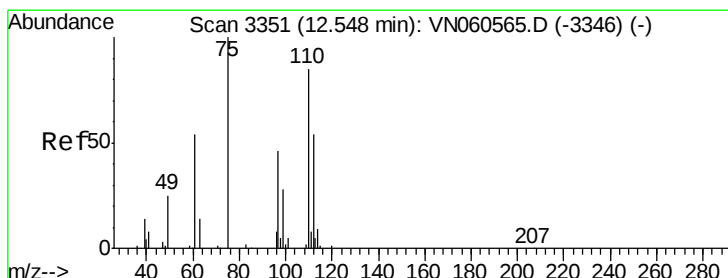
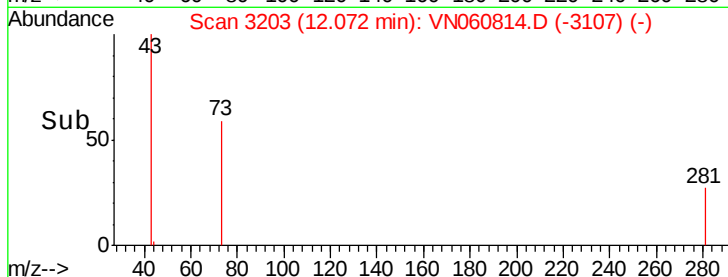
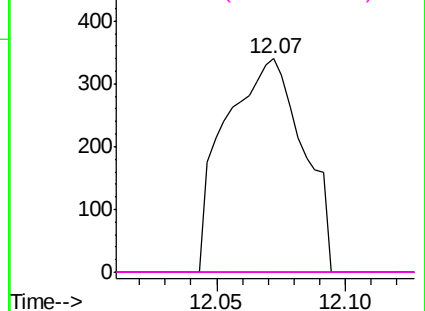


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 28.333 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060814.D

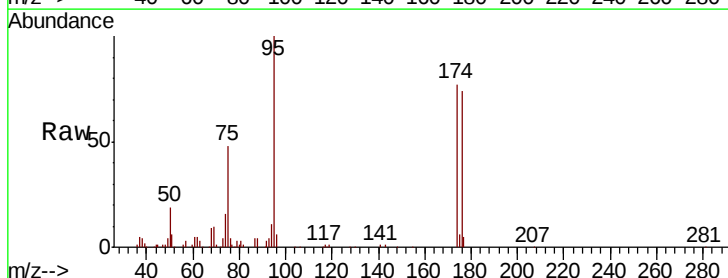
Acq: 2 Apr 2020 11:20

Tgt Ion: 75 Resp: 61112

Ion Ratio Lower Upper

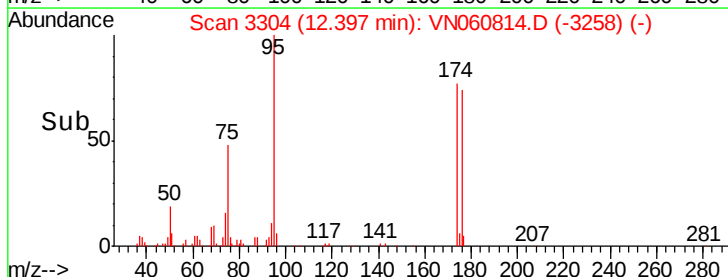
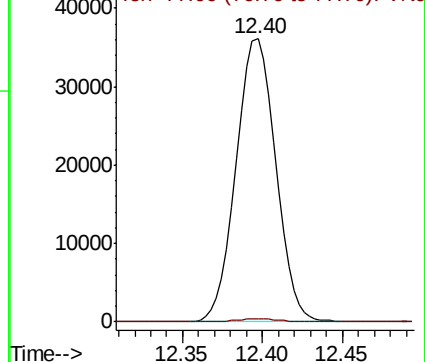
75 100

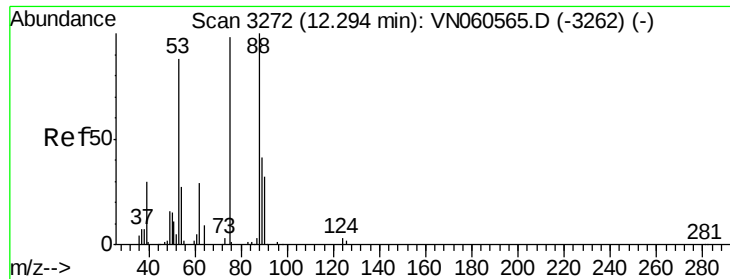
77 1.1 0.0 0.0#



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: 72.767 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

ClientSampled :

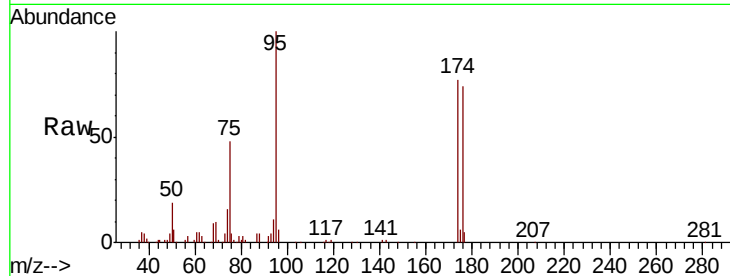
Tot Ion: 75 Resp: 61112

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

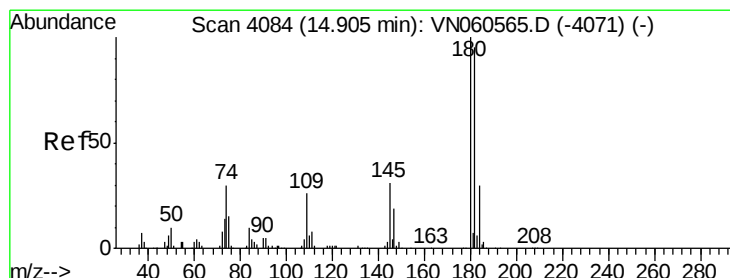
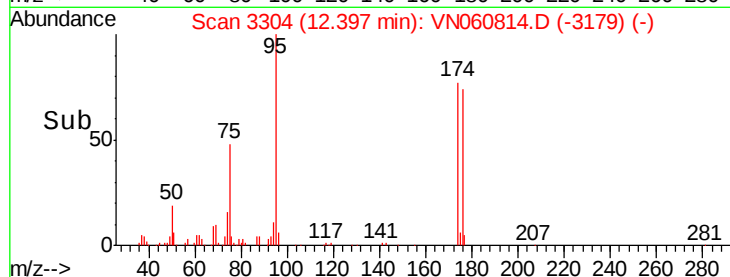
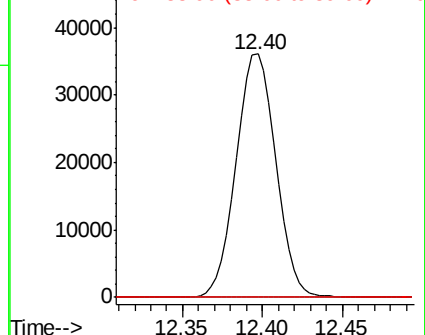
89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN060814.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN060814.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN060814.D (-3179) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.503 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.01 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

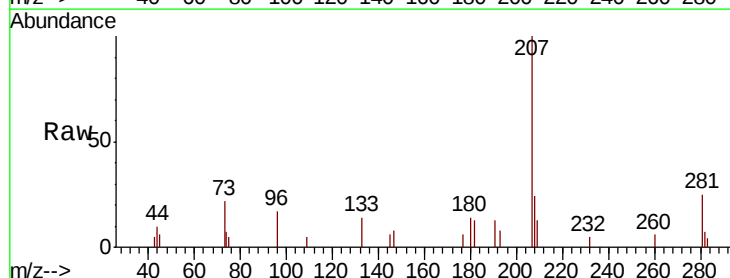
Tgt Ion: 180 Resp: 942

Ion Ratio Lower Upper

180 100

182 79.6 47.9 143.8

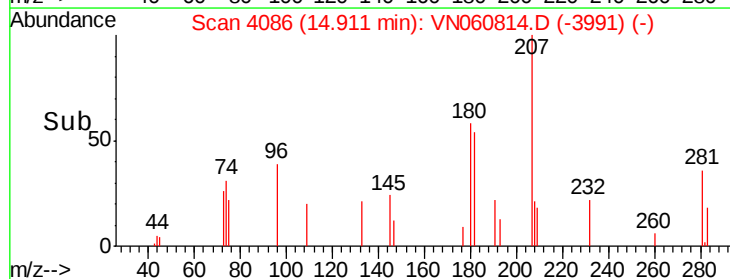
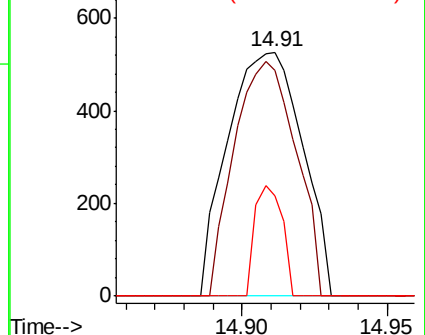
145 16.7 15.4 46.2

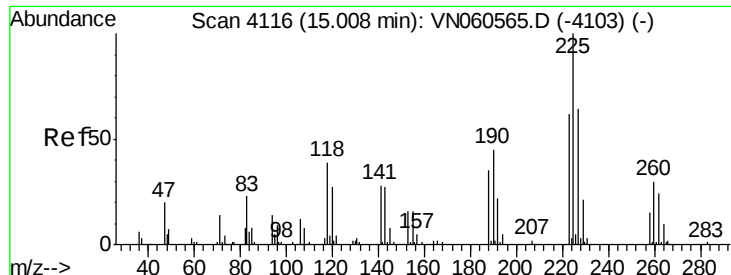


Abundance Ion 179.80 (179.50 to 180.50): VN060814.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN060814.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN060814.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: 0.324 ug/l

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

Instrument :

MSVOA_N

ClientSampleId :

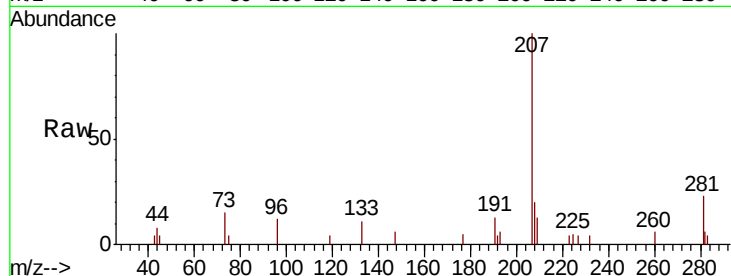
Tot Ion:225 Resp: 297

Ion Ratio Lower Upper

225 100

223 48.5 31.6 95.0

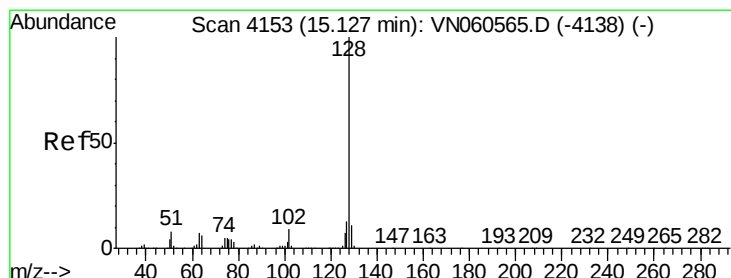
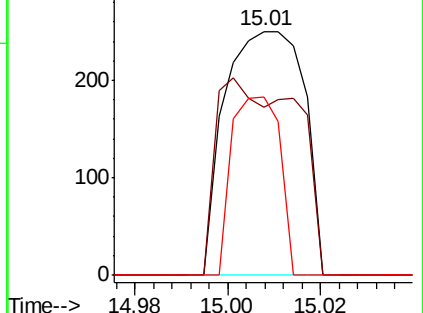
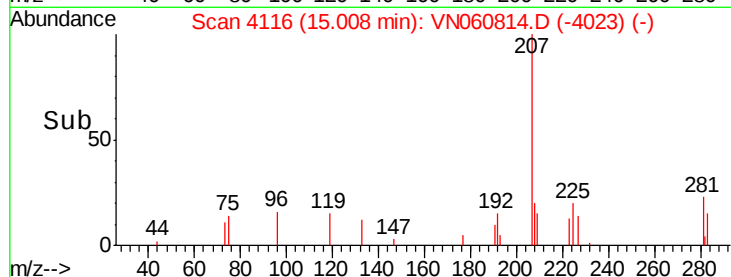
227 44.4 32.3 96.8



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: 0.634 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN060814.D

Acq: 2 Apr 2020 11:20

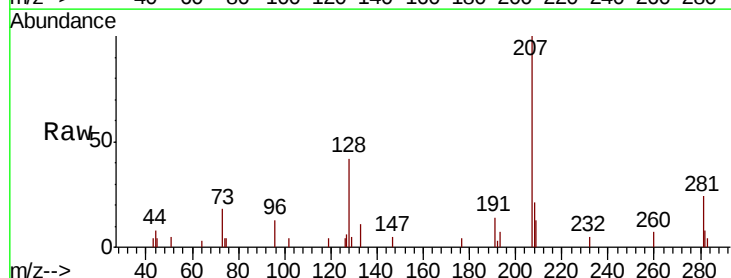
Tgt Ion:128 Resp: 3572

Ion Ratio Lower Upper

128 100

127 10.2 10.2 15.2

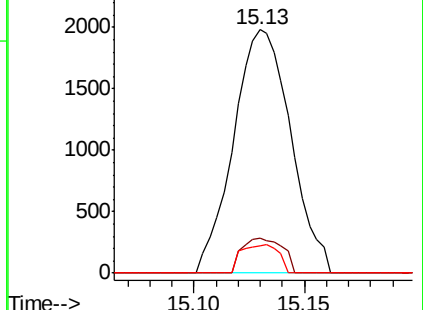
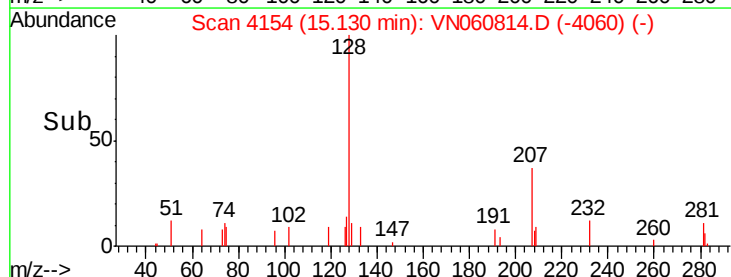
129 7.7 8.8 13.2#

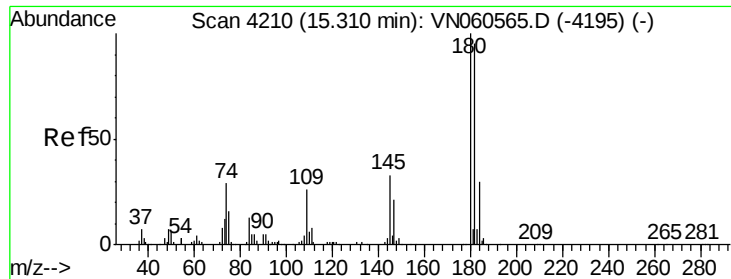


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.656 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.00 min
 Lab File: VN060814.D
 Acq: 2 Apr 2020 11:20

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	78.0	47.5	142.6
145	29.2	16.3	48.8

