

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102820\
 Data File : VN064350.D
 Acq On : 28 Oct 2020 14:22
 Operator : JC/MD
 Sample : PB132665ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#02

Quant Time: Oct 29 02:41:54 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	255327	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	443166	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	444608	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	196053	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	195040	47.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.08%	
35) Dibromofluoromethane	7.55	113	143240	48.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.94%	
50) Toluene-d8	10.06	98	552106	50.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.38	95	237678	55.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	111.54%	

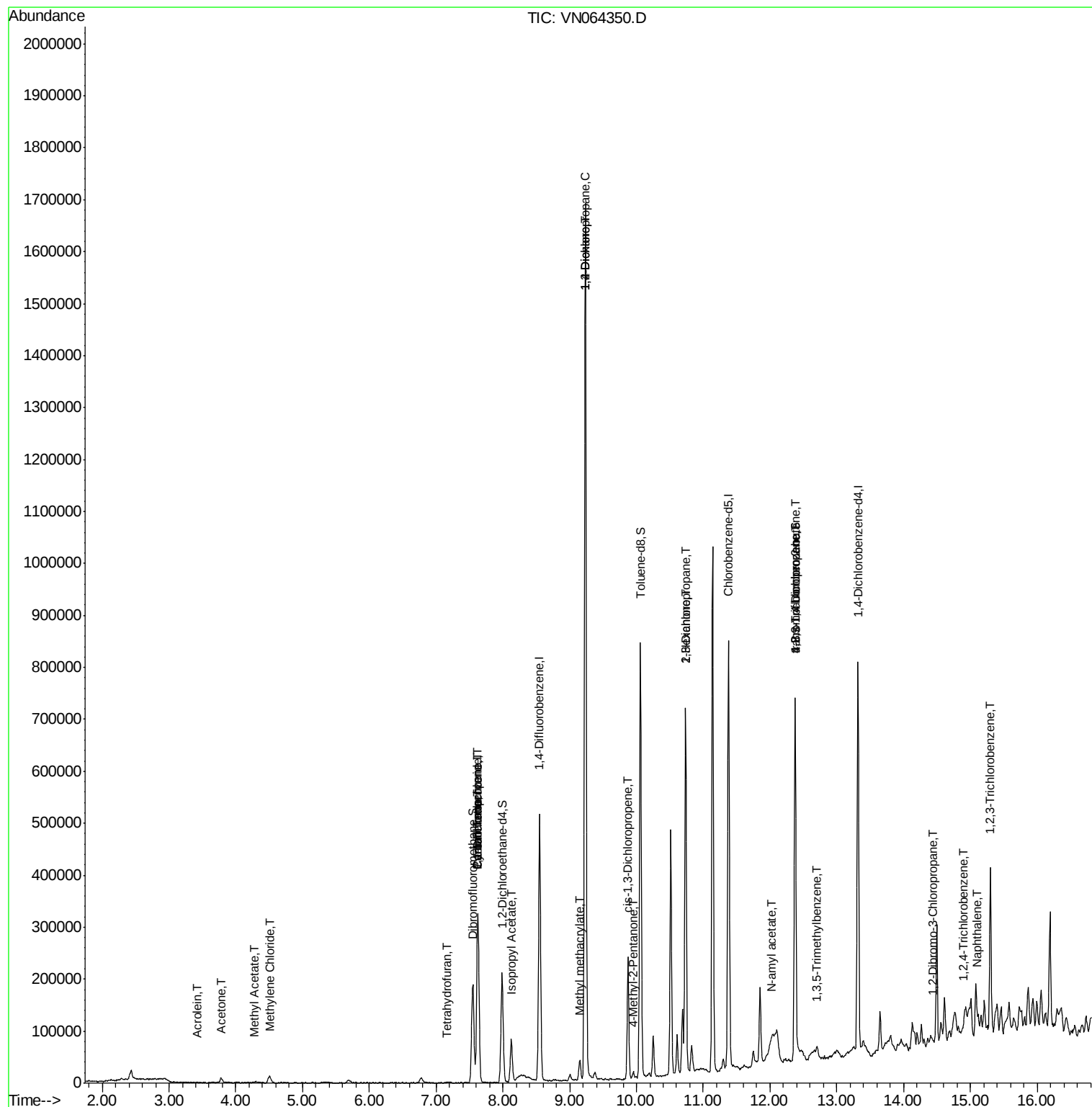
Target Compounds					Qvalue	
13) Acrolein	3.42	56	66	18.154	ug/l #	64
16) Acetone	3.78	43	16281	4.423	ug/l	98
18) Methyl Acetate	4.28	43	2441	0.792	ug/l #	87
20) Methylene Chloride	4.51	84	8775	3.016	ug/l	93
29) Tetrahydrofuran	7.16	42	763	0.570	ug/l #	55
31) Cyclohexane	7.63	56	6249	1.312	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	20956	4.685	ug/l #	52
38) Carbon Tetrachloride	7.63	117	26943	5.196	ug/l #	16
43) Isopropyl Acetate	8.13	43	103252	13.370	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	2162	0.649	ug/l #	44
48) Methyl methacrylate	9.15	41	5518	1.385	ug/l #	16
49) 1,4-Dioxane	9.23	88	168	2.861	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8762	1.952	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	40683	7.232	ug/l #	60
57) 1,3-Dichloropropane	10.73	76	6976	1.319	ug/l #	51
59) 2-Hexanone	10.74	43	109626	33.158	ug/l #	53
74) N-amyl acetate	12.02	43	21374	3.307	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	127830	27.227	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	3645	0.293	ug/l	79
81) trans-1,4-Dichloro-2-buten	12.38	75	127830	78.429	ug/l #	9
92) 1,2-Dibromo-3-Chloropropan	14.45	75	216	0.204	ug/l	70
93) 1,2,4-Trichlorobenzene	14.89	180	213	2.075	ug/l #	74
95) Naphthalene	15.11	128	1751	2.543	ug/l #	80
96) 1,2,3-Trichlorobenzene	15.29	180	312	2.268	ug/l #	1

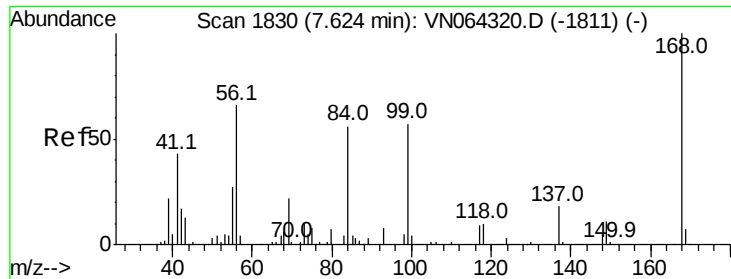
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Oct 27 12:23:17 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.00 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

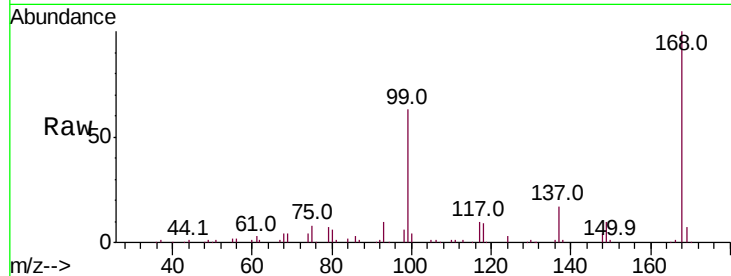
PB132665ZHE#02

Tot Ion:168 Resp: 255327

Ion Ratio Lower Upper

168 100

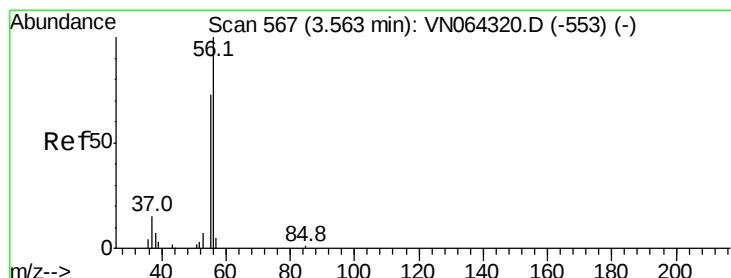
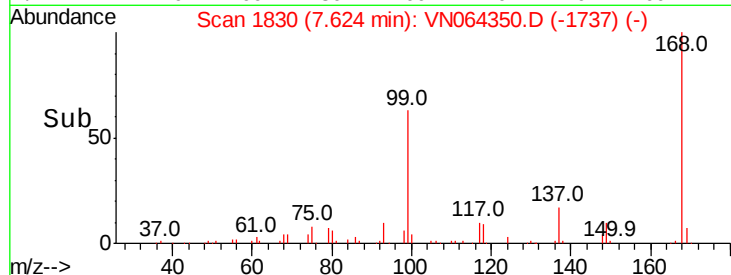
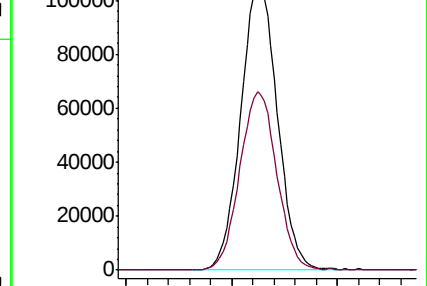
99 63.2 52.7 79.1



Abundance Ion 167.90 (167.60 to 168.60): VN064320.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN064320.D (-1811) (-)

7.62



#13

Acrolein

Concen: 18.154 ug/l

RT: 3.42 min Scan# 522

Delta R.T. -0.14 min

Lab File: VN064350.D

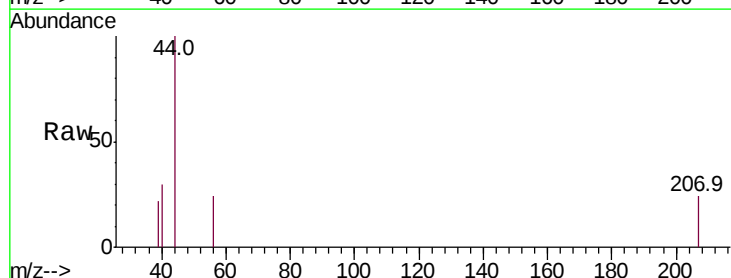
Acq: 28 Oct 2020 14:22

Tgt Ion: 56 Resp: 66

Ion Ratio Lower Upper

56 100

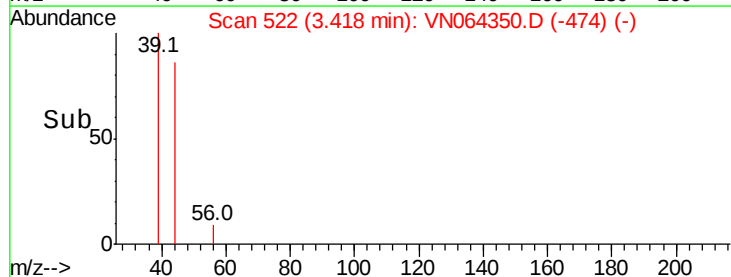
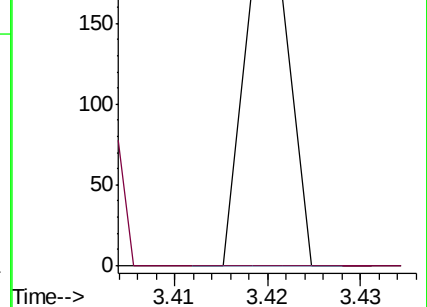
55 47.0 62.6 94.0#

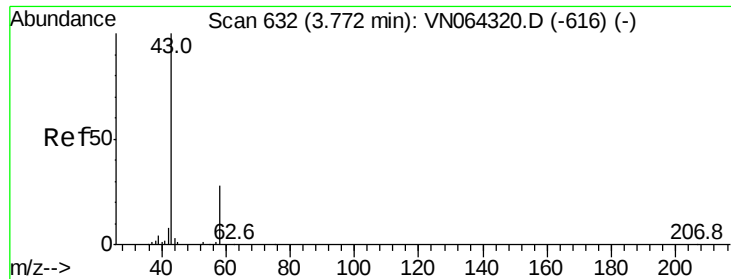


Abundance Ion 56.00 (55.70 to 56.70): VN064320.D (-553) (-)

Ion 55.00 (54.70 to 55.70): VN064320.D (-553) (-)

3.42





#16

Acetone

Concen: 4.423 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

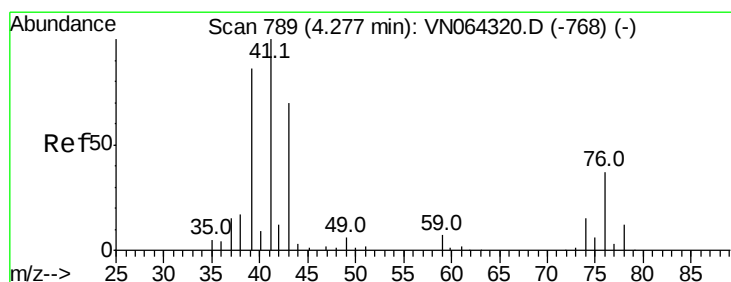
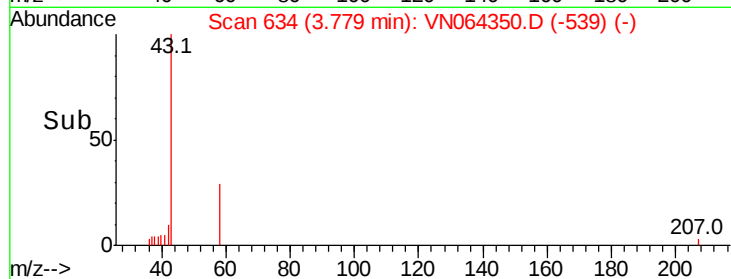
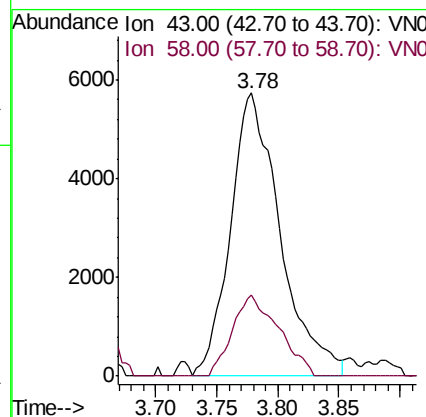
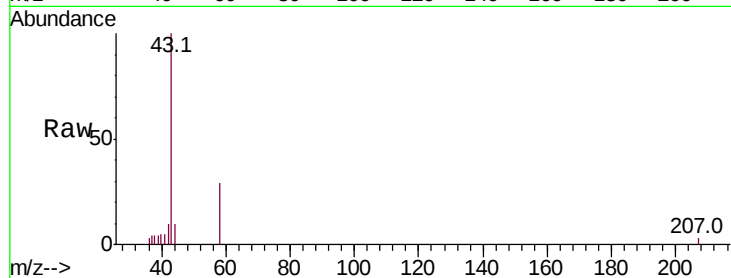
PB132665ZHE#02

Tot Ion: 43 Resp: 16281

Ion Ratio Lower Upper

43 100

58 28.7 22.1 33.1



#18

Methyl Acetate

Concen: 0.792 ug/l

RT: 4.28 min Scan# 789

Delta R.T. 0.00 min

Lab File: VN064350.D

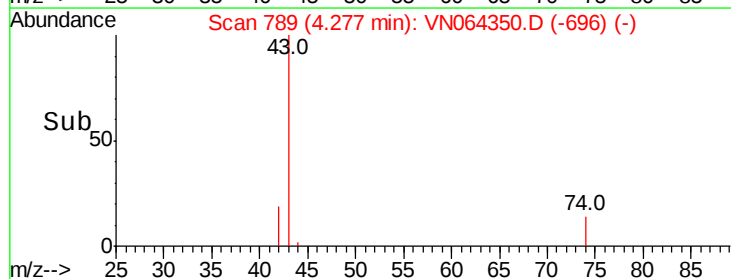
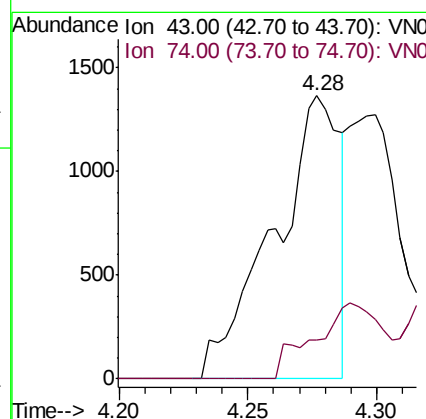
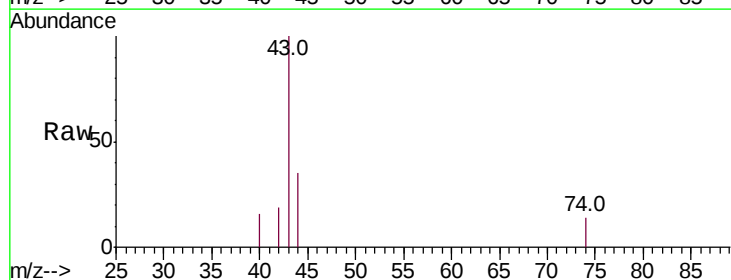
Acq: 28 Oct 2020 14:22

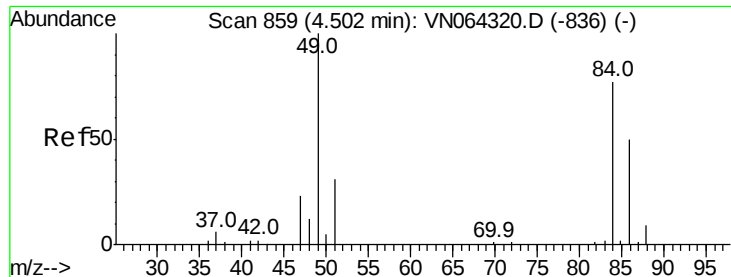
Tgt Ion: 43 Resp: 2441

Ion Ratio Lower Upper

43 100

74 27.0 16.7 25.1#

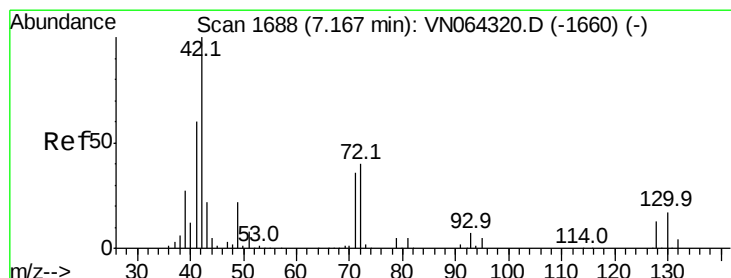
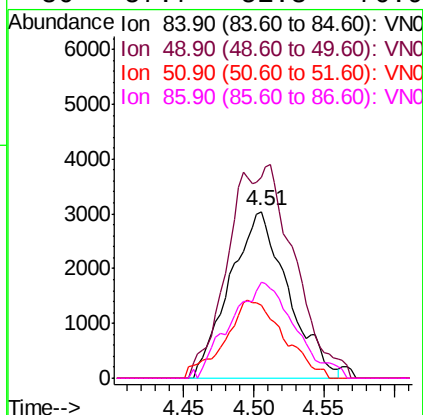
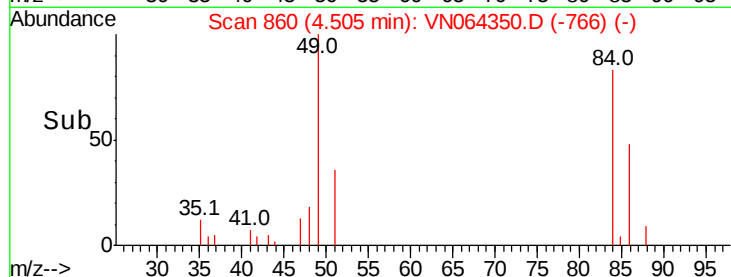
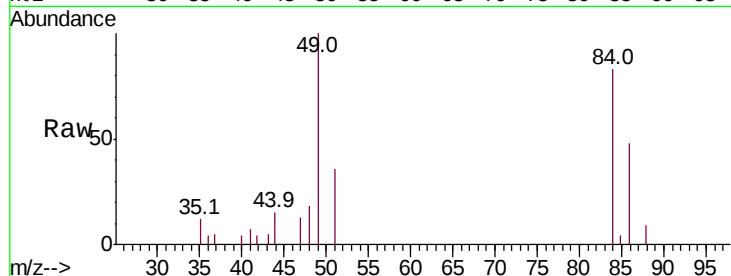




#20
Methvlene Chloride
Concen: 3.016 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN064350.D
Acq: 28 Oct 2020 14:22

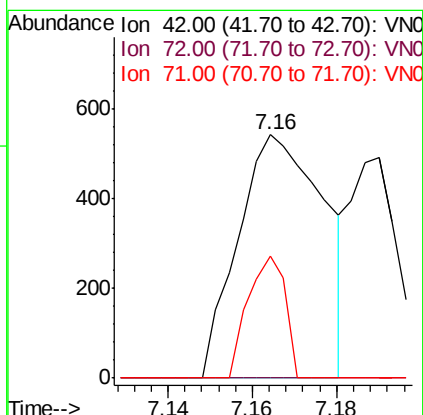
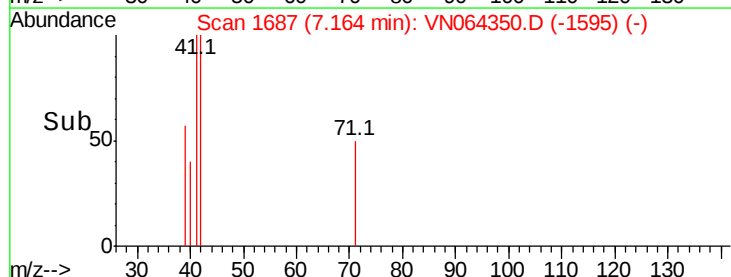
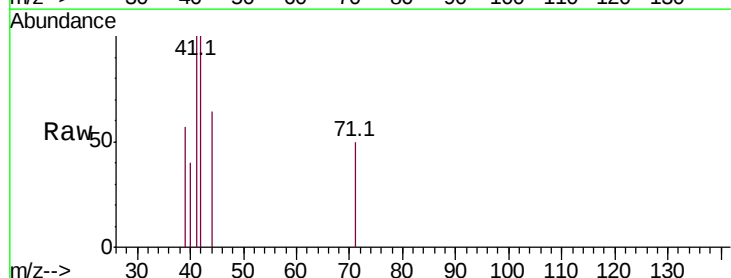
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#02

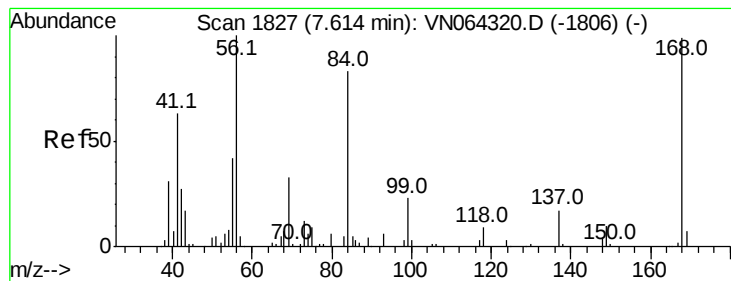
Tot Ion:	84	Resp:	8775
Ion	Ratio	Lower	Upper
84	100		
49	121.0	103.6	155.4
51	43.7	31.8	47.8
86	57.7	51.3	76.9



#29
Tetrahydrofuran
Concen: 0.570 ug/l
RT: 7.16 min Scan# 1687
Delta R.T. -0.00 min
Lab File: VN064350.D
Acq: 28 Oct 2020 14:22

Tgt Ion:	42	Resp:	763
Ion	Ratio	Lower	Upper
42	100		
72	0.0	31.6	47.4#
71	22.0	29.4	44.0#





#31

Cyclohexane

Concen: 1.312 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#02

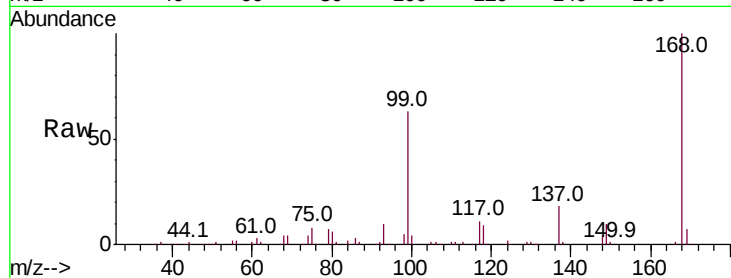
Tot Ion: 56 Resp: 6249

Ion Ratio Lower Upper

56 100

69 175.1 25.8 38.8#

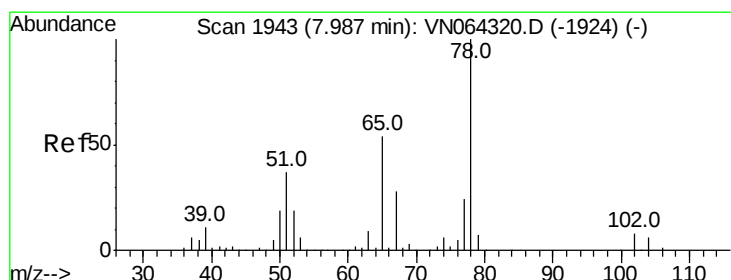
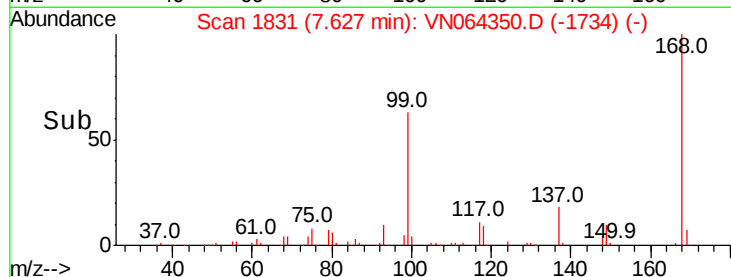
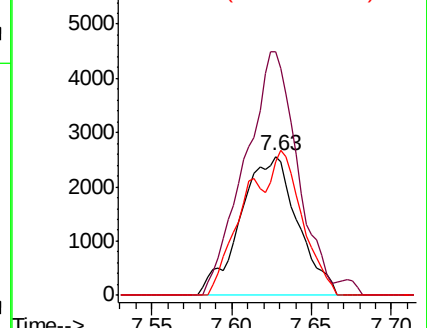
84 95.8 66.3 99.5



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.535 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064350.D

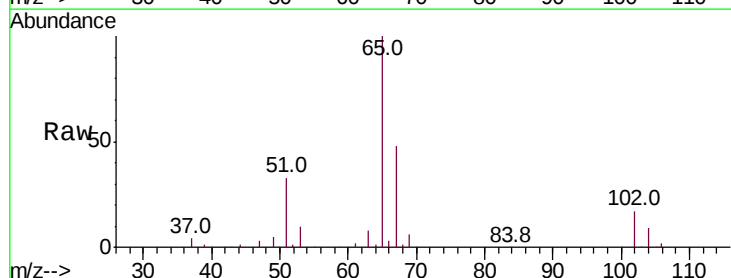
Acq: 28 Oct 2020 14:22

Tgt Ion: 65 Resp: 195040

Ion Ratio Lower Upper

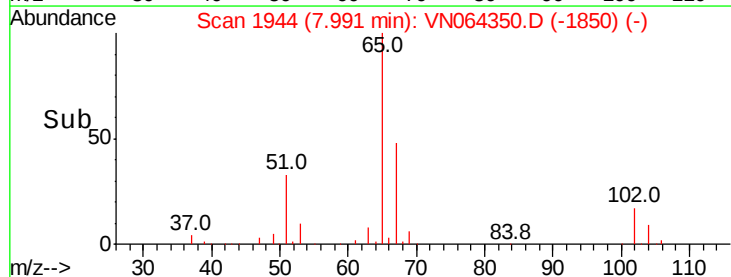
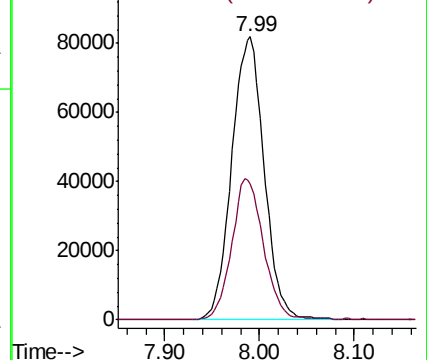
65 100

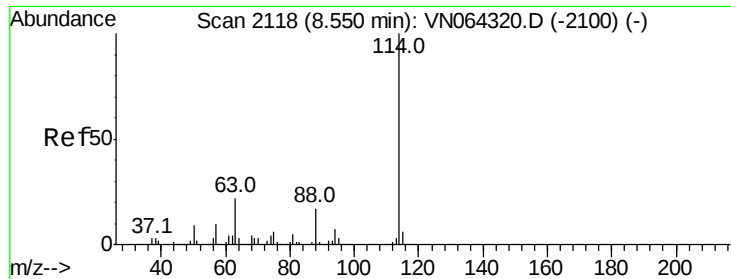
67 49.2 0.0 99.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

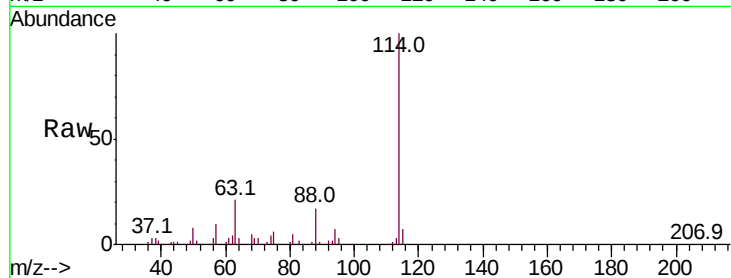




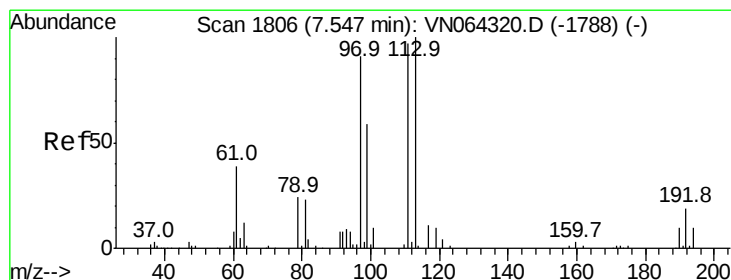
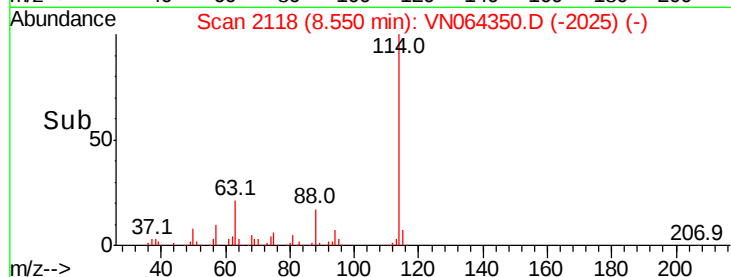
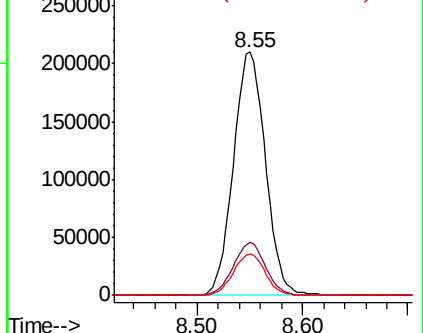
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064350.D
 Acq: 28 Oct 2020 14:22

Instrument :
 MSVOA_N
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 PB132665ZHE#02

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.5	0.0	44.6
88	16.8	0.0	33.4

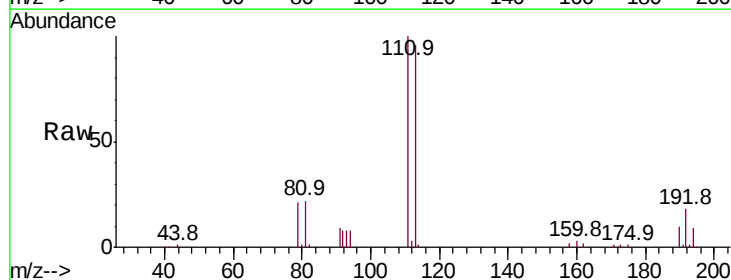


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

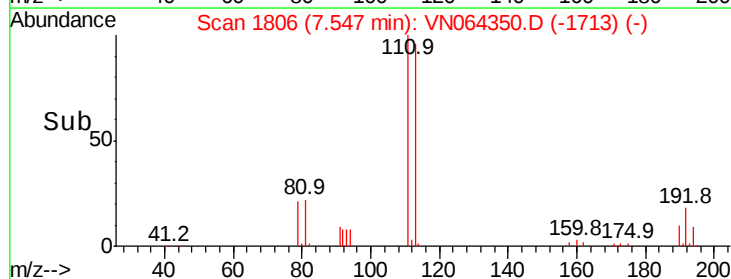
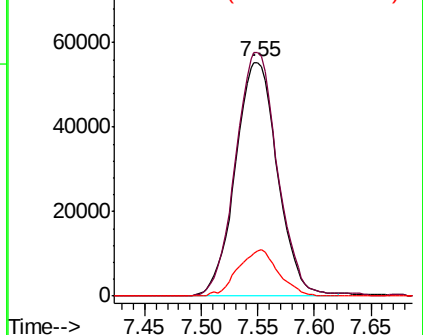


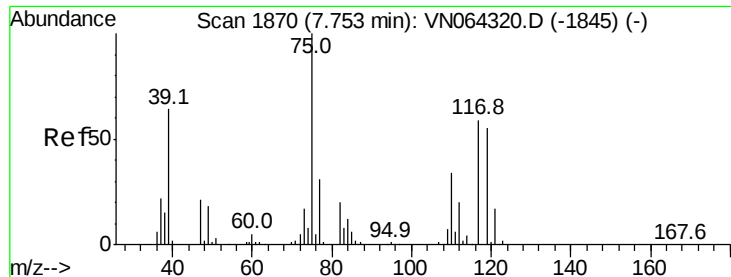
#35
 Dibromofluoromethane
 Concen: 48.468 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN064350.D
 Acq: 28 Oct 2020 14:22

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.8	81.5	122.3
192	19.0	15.0	22.4



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

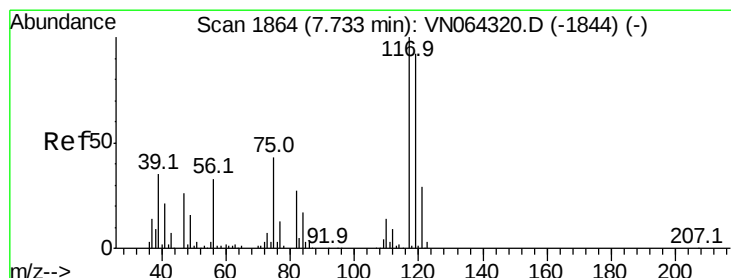
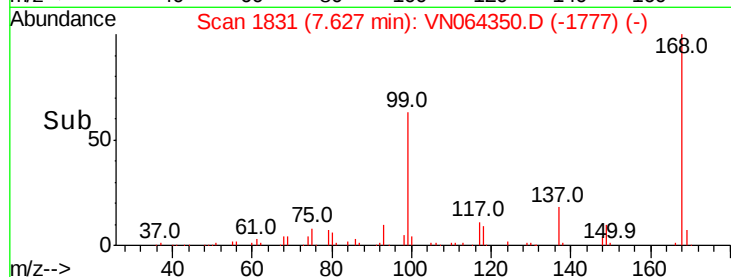
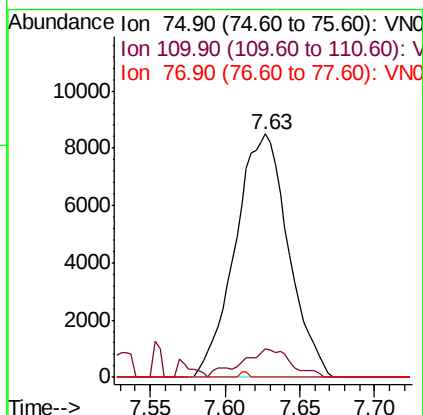
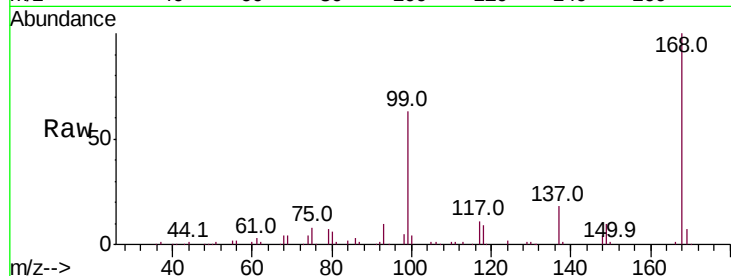




#36
 1,1-Dichloropropene
 Concen: 4.685 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064350.D
 Acq: 28 Oct 2020 14:22

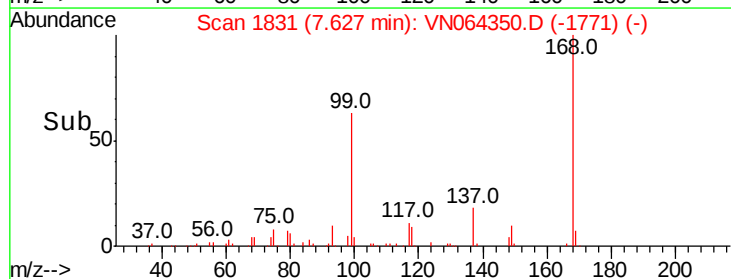
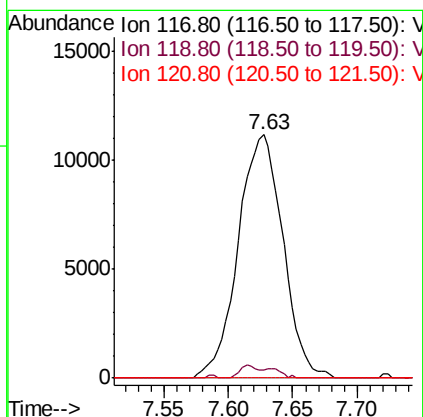
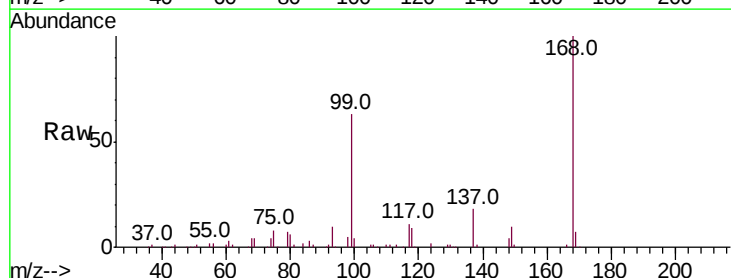
Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#02

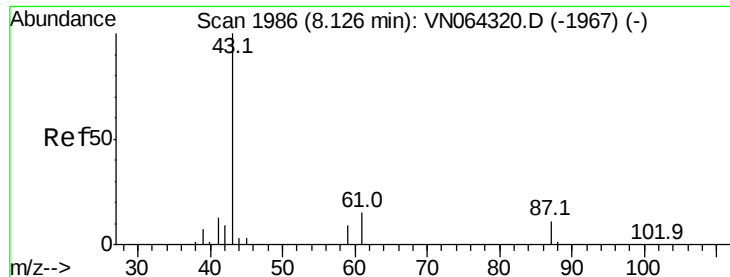
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.8	50.3#
77	0.0	24.2	36.4#



#38
 Carbon Tetrachloride
 Concen: 5.196 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064350.D
 Acq: 28 Oct 2020 14:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	3.4	73.7	110.5#
121	0.0	22.8	34.2#





#43

Isopropyl Acetate

Concen: 13.370 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#02

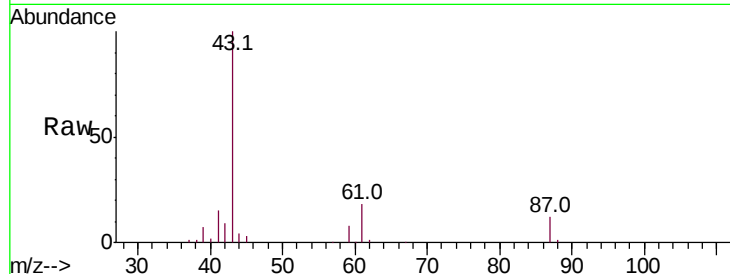
Tot Ion: 43 Resp: 103252

Ion Ratio Lower Upper

43 100

61 17.4 19.1 28.7#

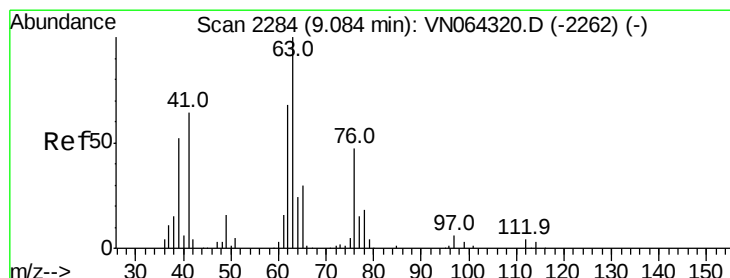
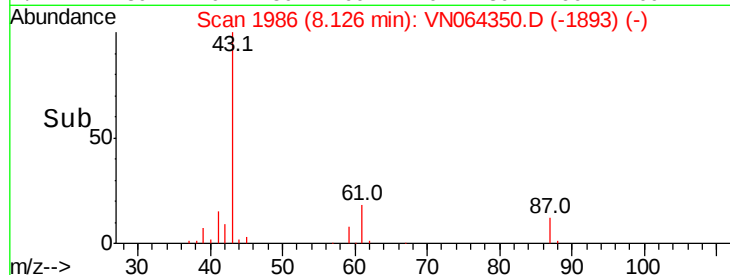
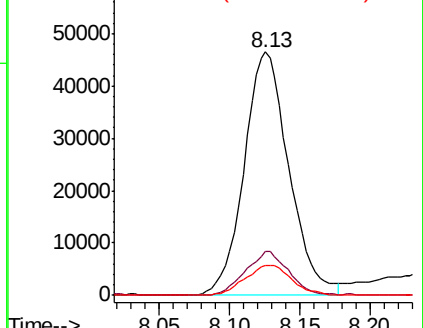
87 12.7 9.3 13.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.649 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN064350.D

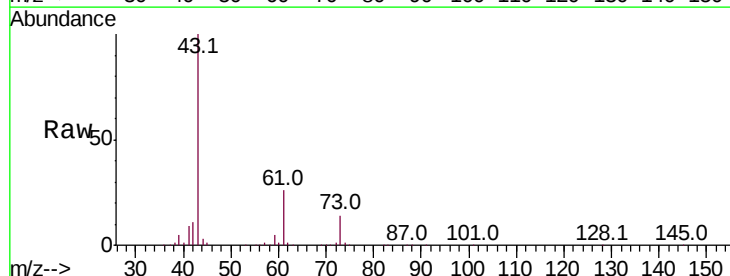
Acq: 28 Oct 2020 14:22

Tgt Ion: 63 Resp: 2162

Ion Ratio Lower Upper

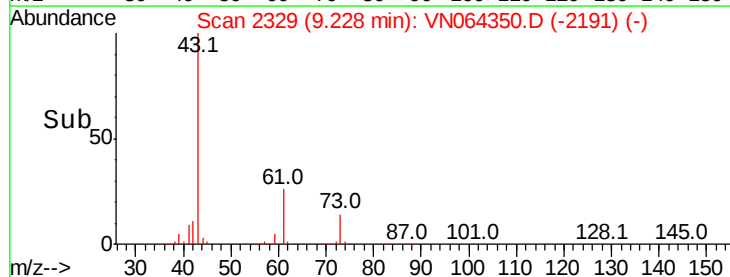
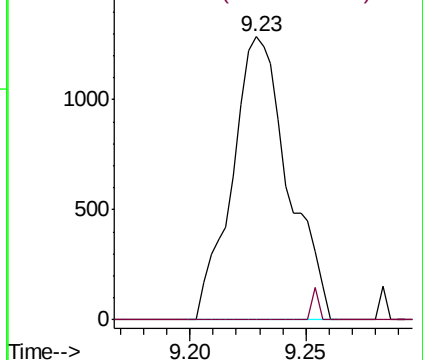
63 100

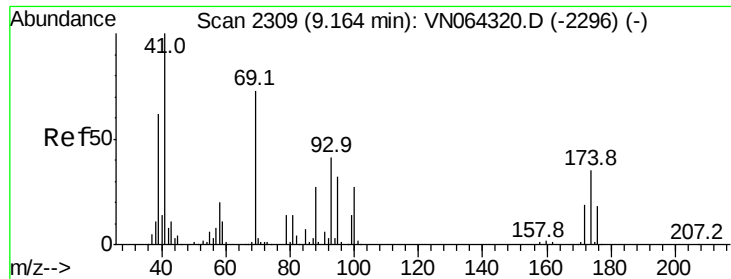
65 0.0 24.3 36.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

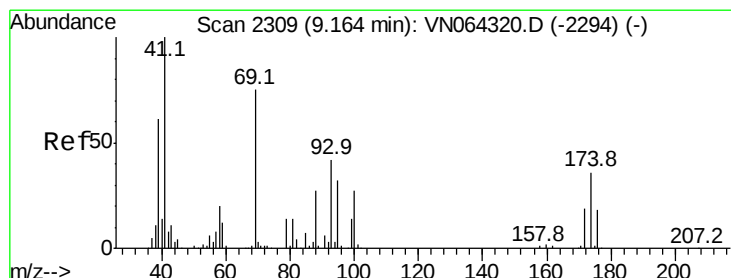
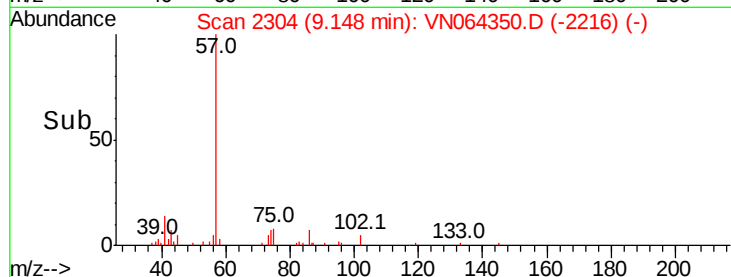
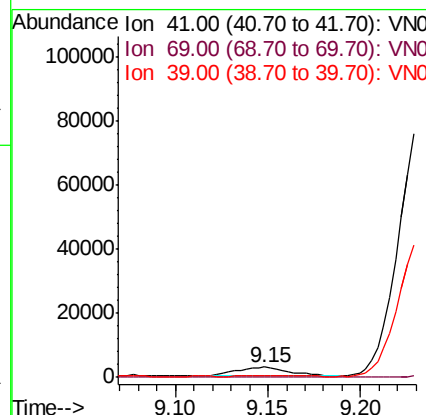
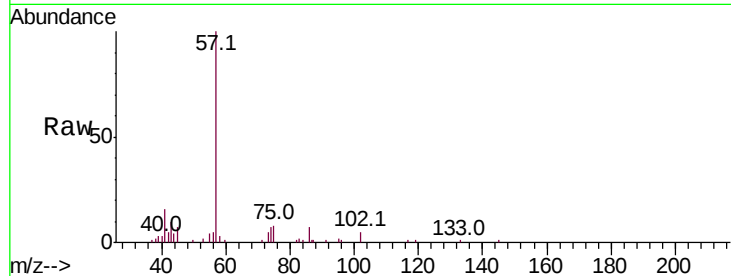




#48
Methvl methacrylate
Concen: 1.385 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064350.D
Acq: 28 Oct 2020 14:22

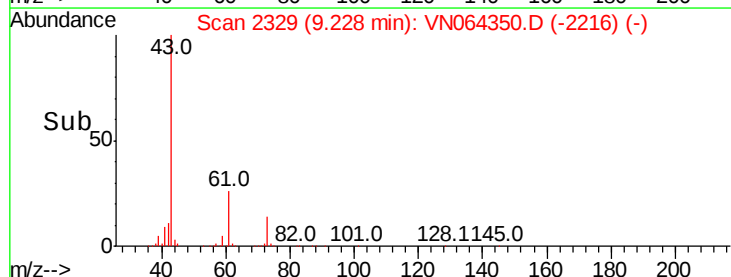
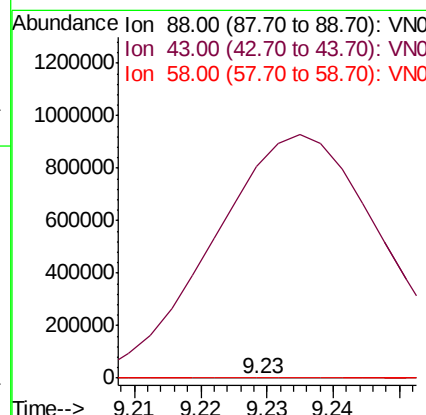
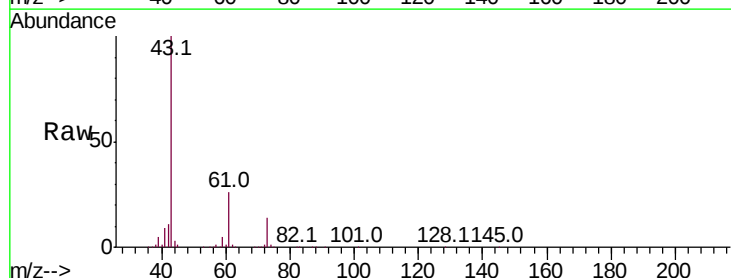
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#02

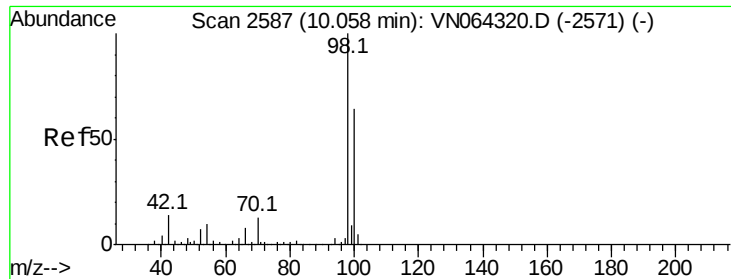
Tot Ion: 41 Resp: 5518
Ion Ratio Lower Upper
41 100
69 1.5 59.1 88.7#
39 0.0 51.3 76.9#



#49
1,4-Dioxane
Concen: 2.861 ug/l
RT: 9.23 min Scan# 2329
Delta R.T. 0.06 min
Lab File: VN064350.D
Acq: 28 Oct 2020 14:22

Tgt Ion: 88 Resp: 168
Ion Ratio Lower Upper
88 100
43 1014778.0 31.8 47.8#
58 3503.0 60.3 90.5#





#50

Toluene-d8

Concen: 50.506 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

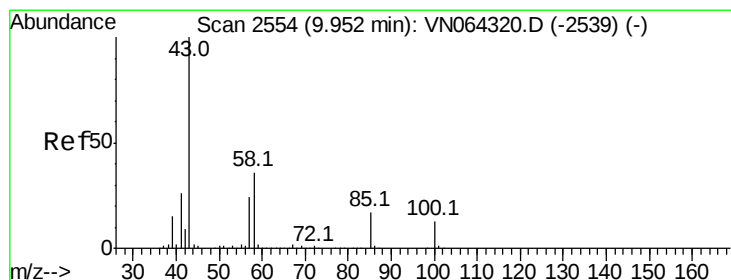
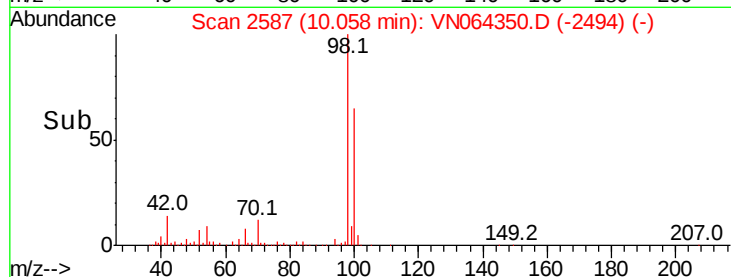
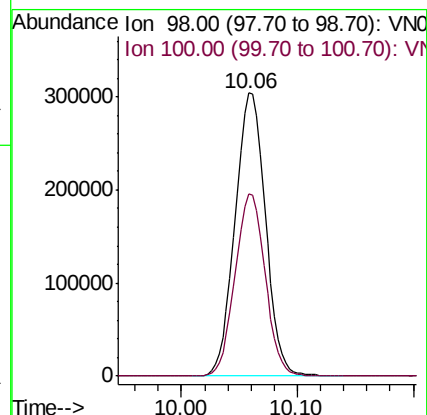
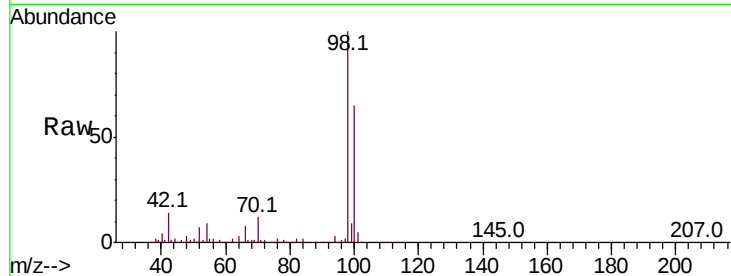
PB132665ZHE#02

Tot Ion: 98 Resp: 552106

Ion Ratio Lower Upper

98 100

100 63.4 50.9 76.3



#51

4-Methyl-2-Pentanone

Concen: 1.952 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064350.D

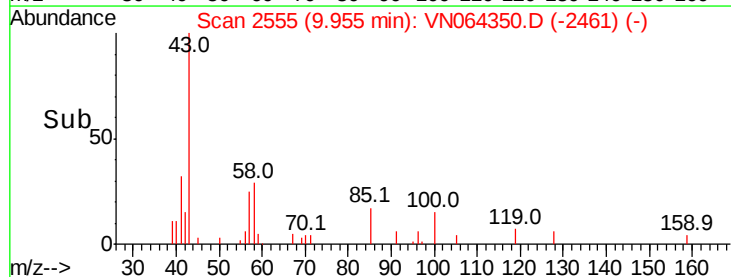
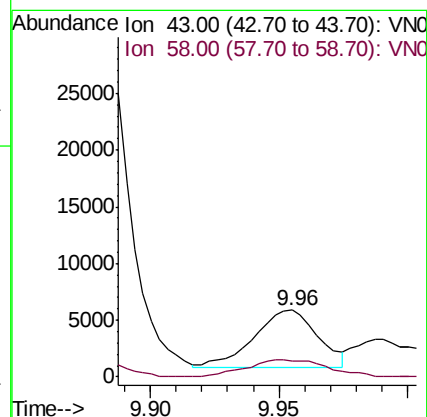
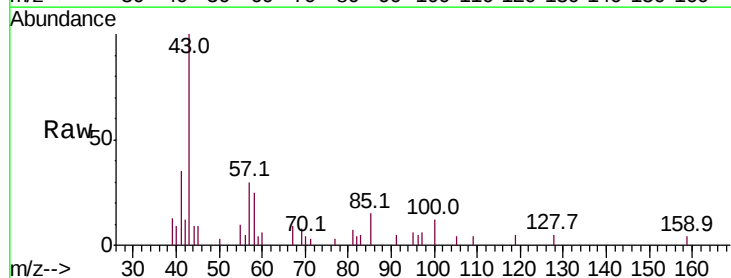
Acq: 28 Oct 2020 14:22

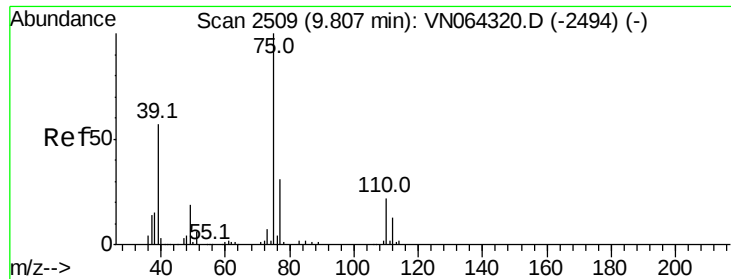
Tgt Ion: 43 Resp: 8762

Ion Ratio Lower Upper

43 100

58 37.9 28.6 42.8



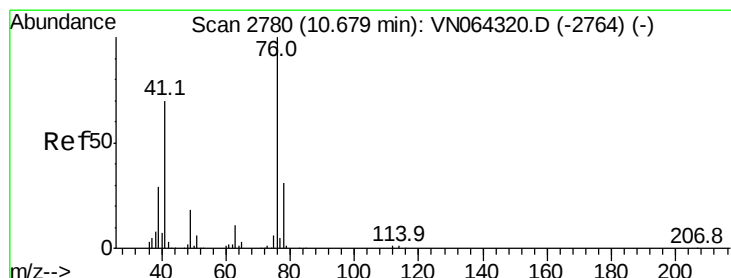
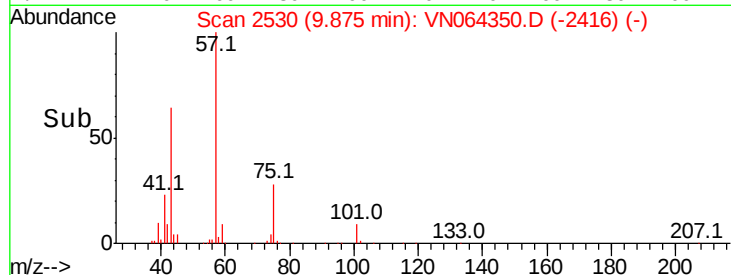
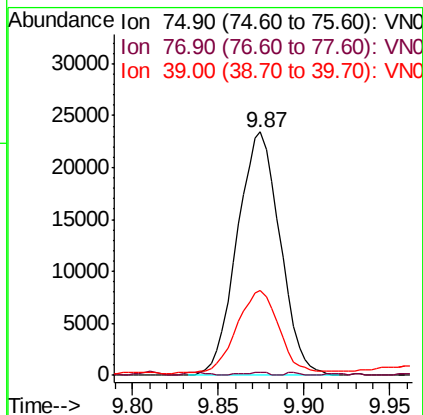
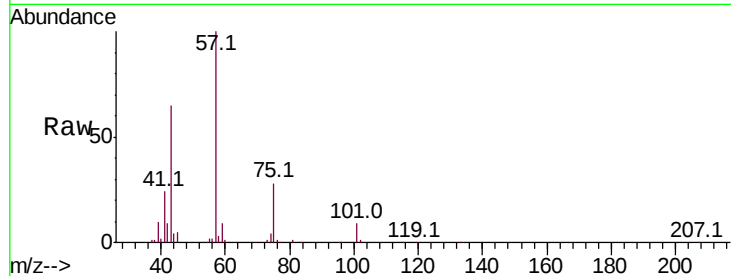


#54

cis-1,3-Dichloropropene
 Concen: 7.232 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064350.D
 Acq: 28 Oct 2020 14:22

Instrument :
 MSVOA_N
 ClientSampleId :
 PB132665ZHE#02

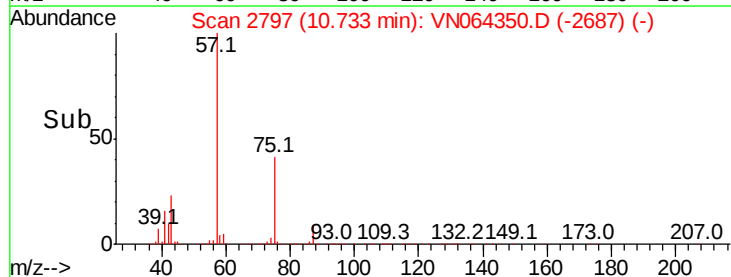
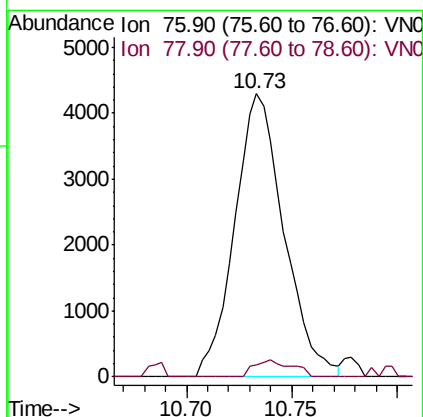
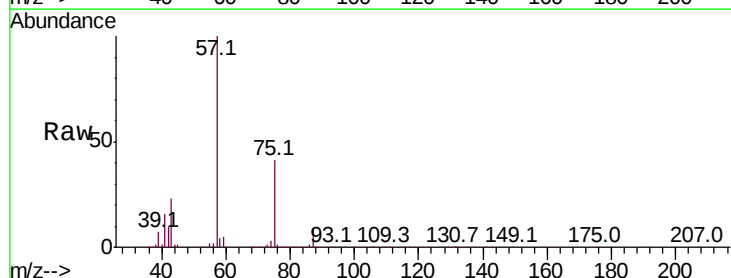
Tot Ion: 75 Resp: 40683
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.0 37.4#
 39 34.1 45.5 68.3#

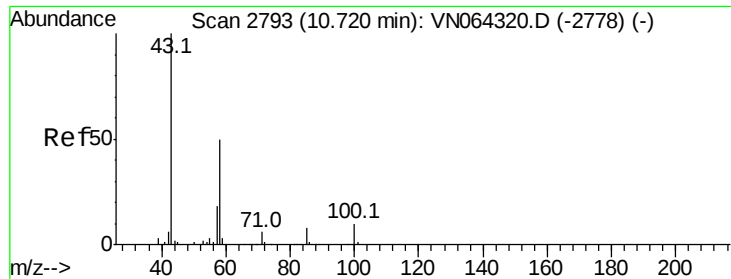


#57

1,3-Dichloropropane
 Concen: 1.319 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064350.D
 Acq: 28 Oct 2020 14:22

Tgt Ion: 76 Resp: 6976
 Ion Ratio Lower Upper
 76 100
 78 4.6 25.8 38.6#





#59

2-Hexanone

Concen: 33.158 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

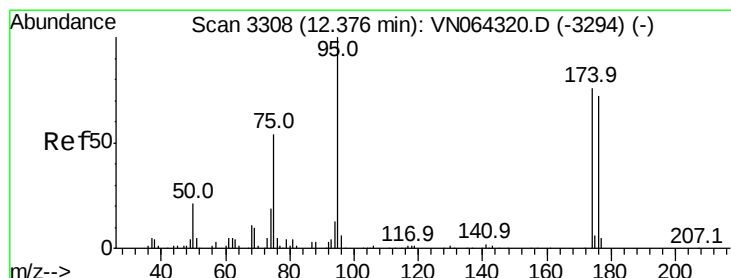
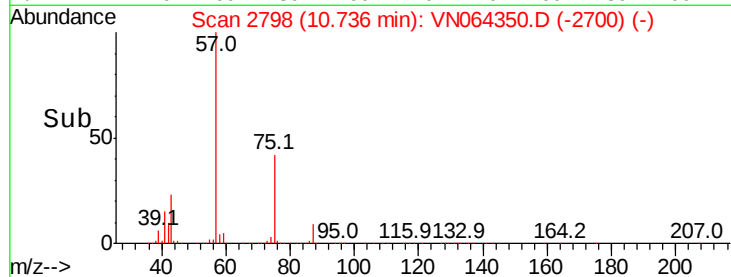
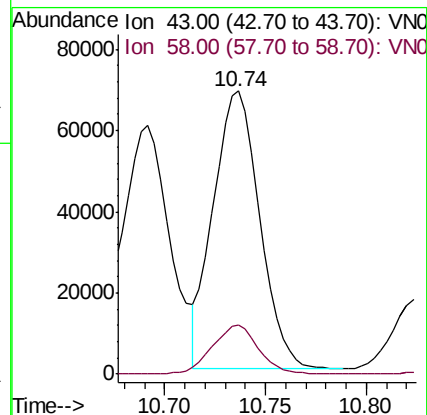
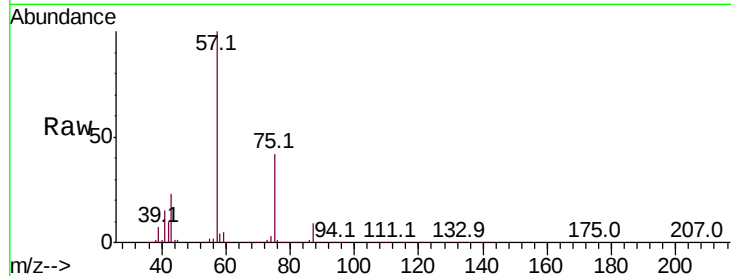
PB132665ZHE#02

Tot Ion: 43 Resp: 109626

Ion Ratio Lower Upper

43 100

58 17.6 25.0 75.0#



#62

4-Bromofluorobenzene

Concen: 55.765 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

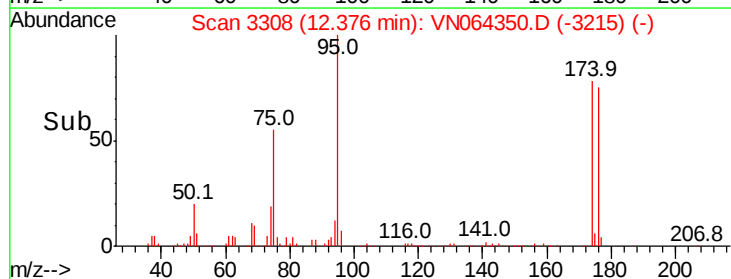
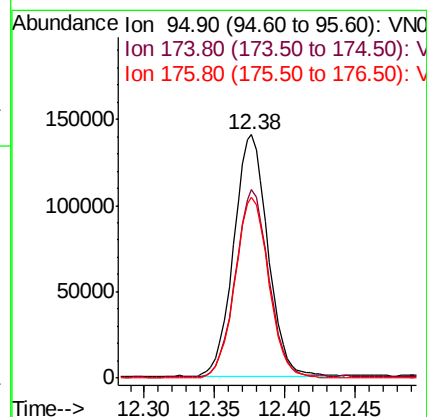
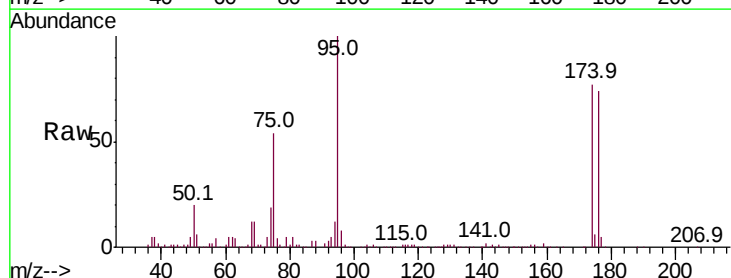
Tgt Ion: 95 Resp: 237678

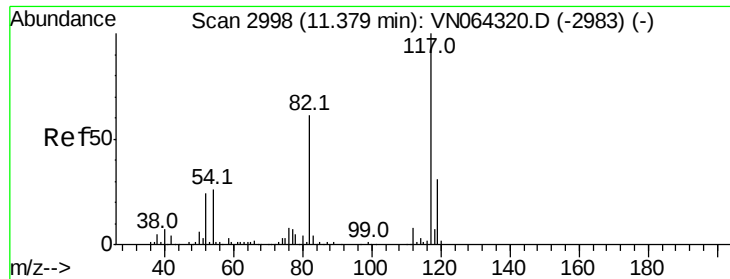
Ion Ratio Lower Upper

95 100

174 75.3 0.0 147.4

176 74.2 0.0 143.6

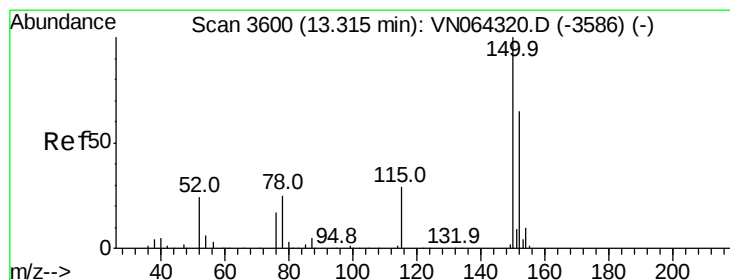
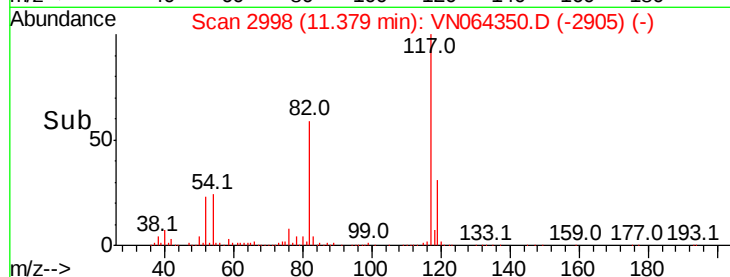
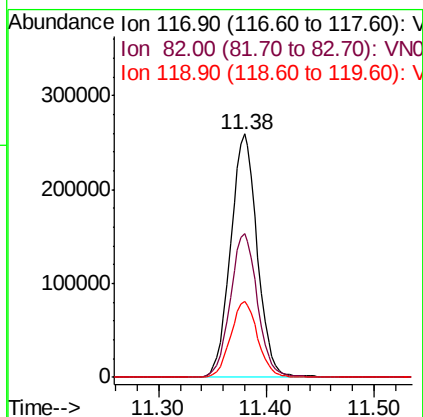
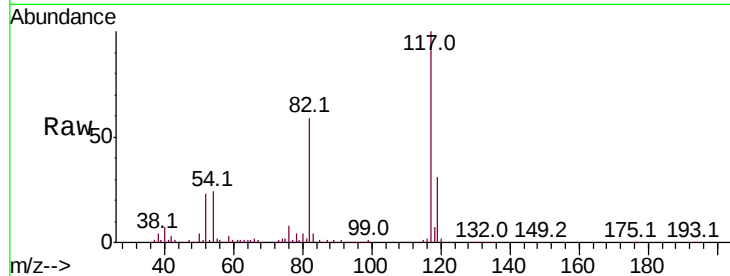




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064350.D
Acq: 28 Oct 2020 14:22

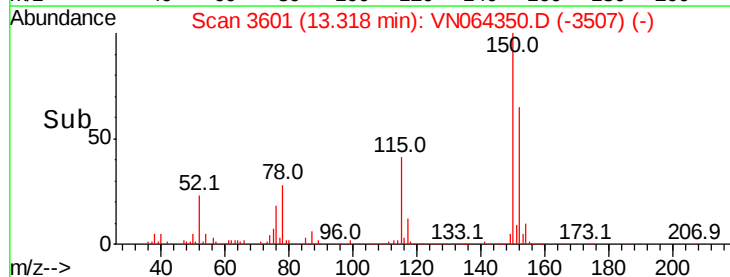
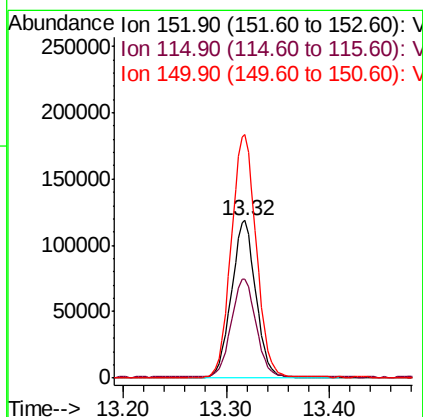
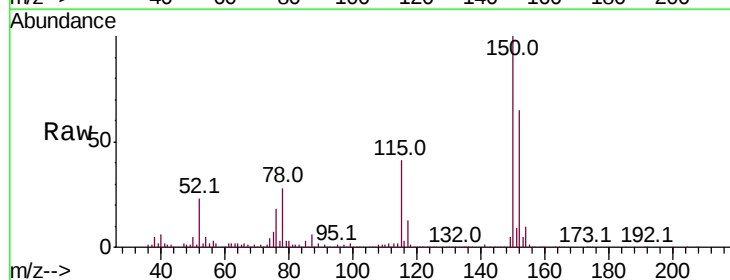
Instrument :
MSVOA_N
ClientSampleId :
PB132665ZHE#02

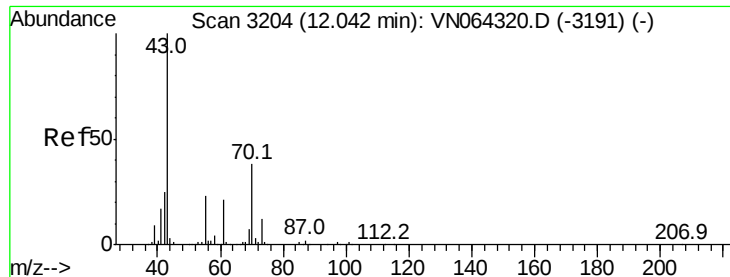
Tot Ion:117 Resp: 444608
Ion Ratio Lower Upper
117 100
82 58.9 48.8 73.2
119 31.0 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064350.D
Acq: 28 Oct 2020 14:22

Tgt Ion:152 Resp: 196053
Ion Ratio Lower Upper
152 100
115 63.0 31.5 94.5
150 157.7 0.0 346.2





#74

N-amvl acetate

Concen: 3.307 ug/l

RT: 12.02 min Scan# 3196

Delta R.T. -0.03 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#02

Tot Ion: 43 Resp: 21374

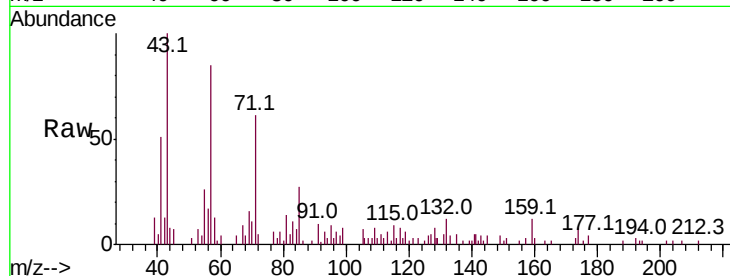
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.2 27.4#

61 0.0 17.6 26.4#

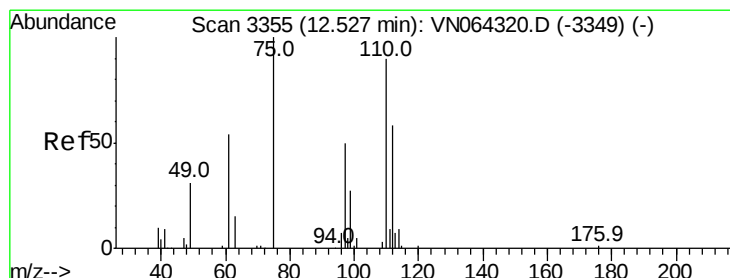
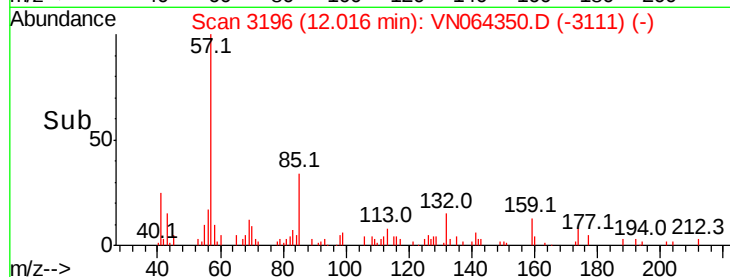
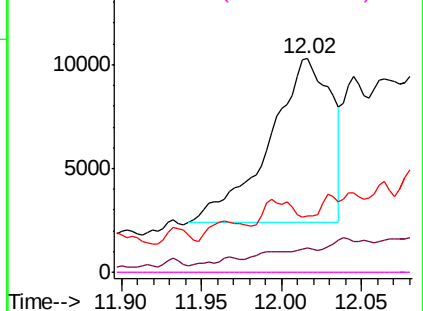


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.227 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064350.D

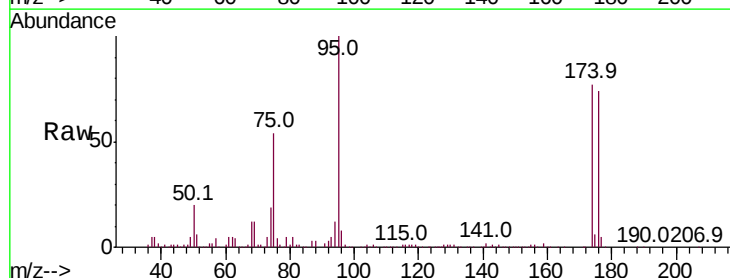
Acq: 28 Oct 2020 14:22

Tgt Ion: 75 Resp: 127830

Ion Ratio Lower Upper

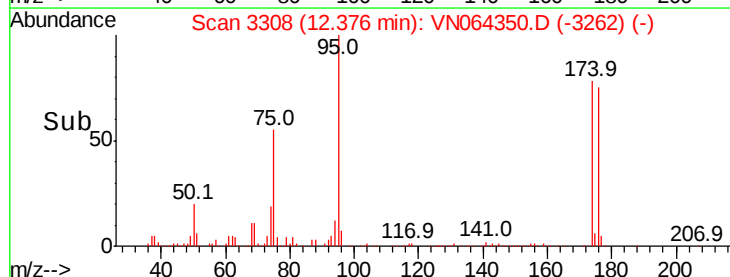
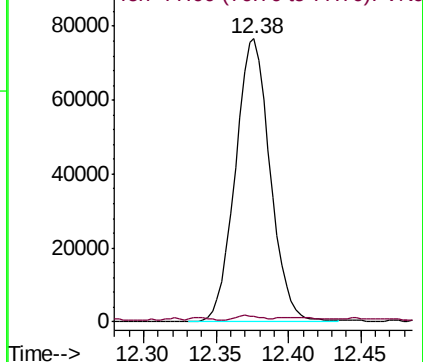
75 100

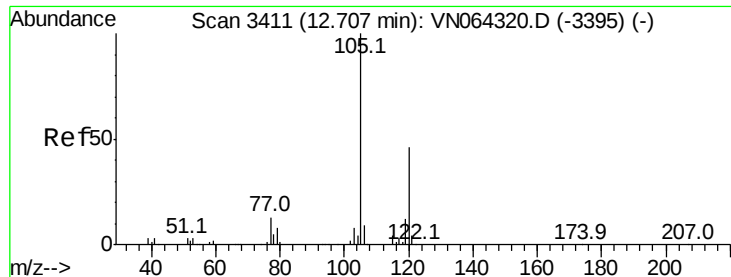
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.293 ug/l

RT: 12.70 min Scan# 3408

Delta R.T. -0.01 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

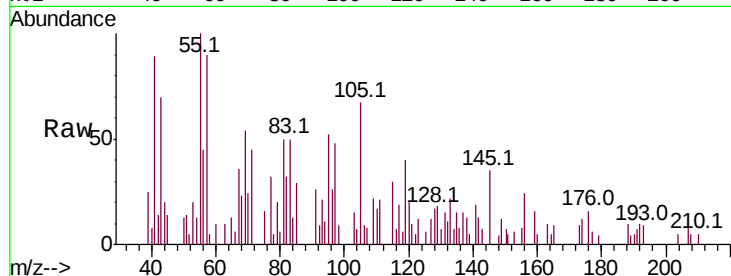
PB132665ZHE#02

Tot Ion:105 Resp: 3645

Ion Ratio Lower Upper

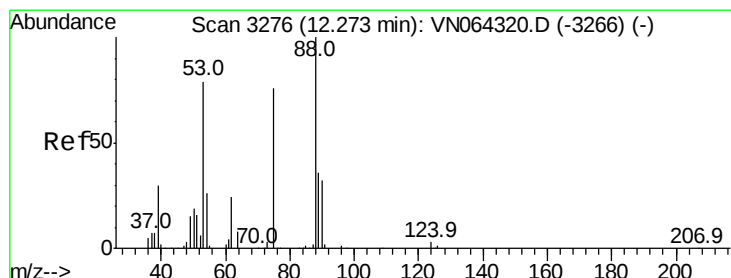
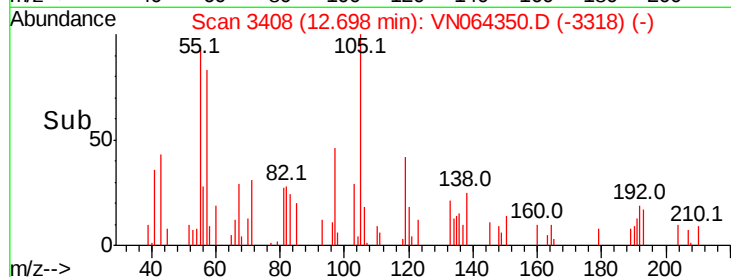
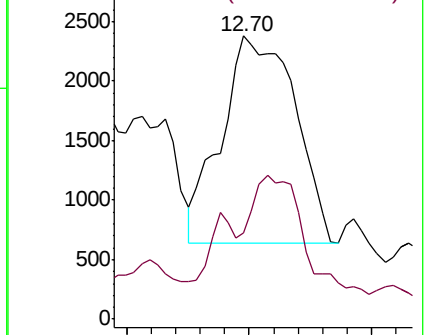
105 100

120 59.9 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 78.429 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

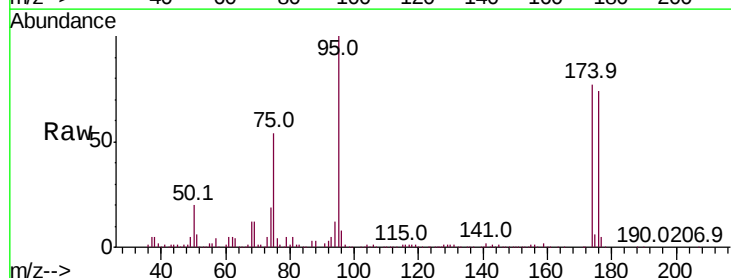
Tgt Ion: 75 Resp: 127830

Ion Ratio Lower Upper

75 100

53 0.0 81.8 122.8#

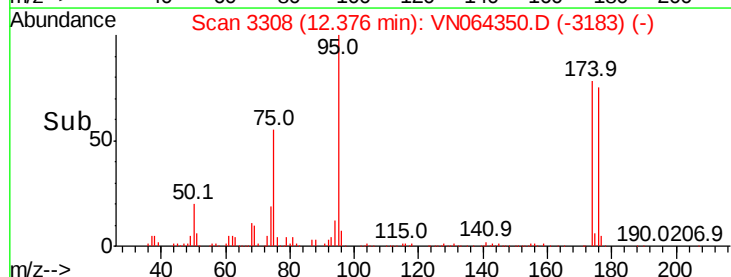
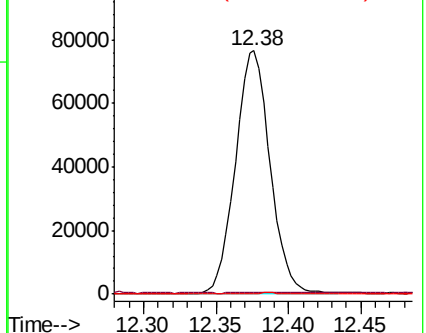
89 0.3 39.9 59.9#

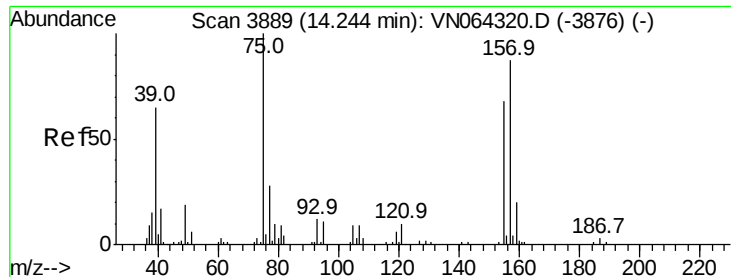


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.204 ug/l

RT: 14.45 min Scan# 3952

Delta R.T. 0.20 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#02

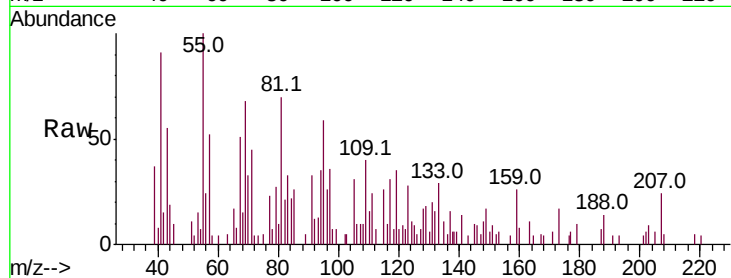
Tot Ion: 75 Resp: 216

Ion Ratio Lower Upper

75 100

155 51.9 35.1 105.5

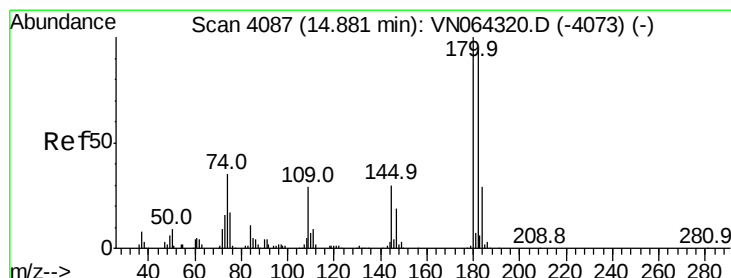
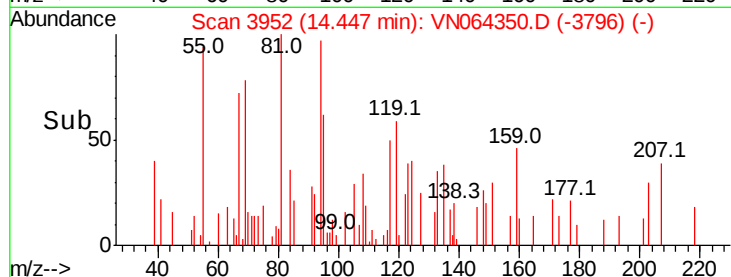
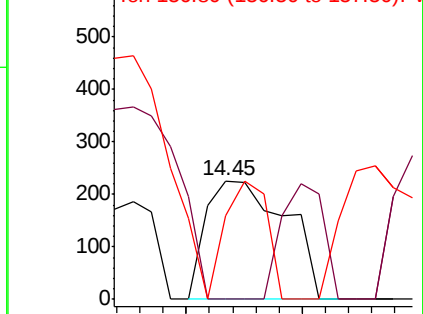
157 52.3 43.2 129.6



Abundance Ion 74.90 (74.60 to 75.60): VN064320.D (-3876) (-)

Ion 154.80 (154.50 to 155.50): VN064320.D (-3876) (-)

Ion 156.80 (156.50 to 157.50): VN064320.D (-3876) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.075 ug/l

RT: 14.89 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

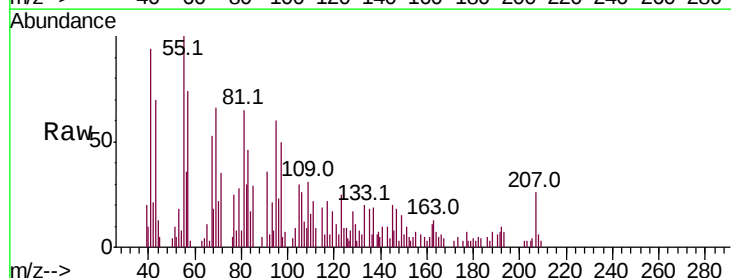
Tgt Ion: 180 Resp: 213

Ion Ratio Lower Upper

180 100

182 108.9 46.6 139.7

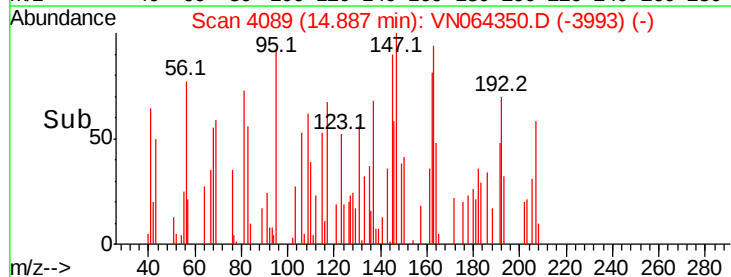
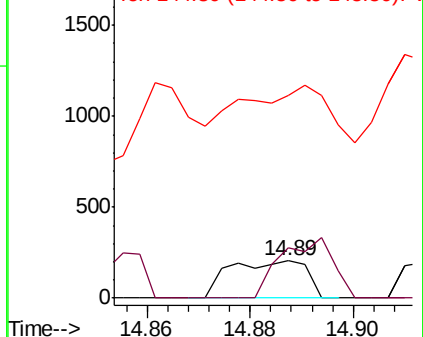
145 0.0 15.3 45.9#

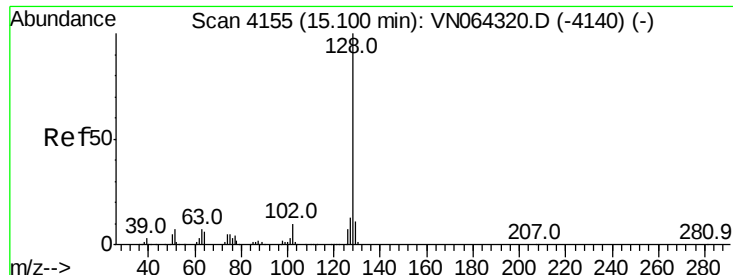


Abundance Ion 179.80 (179.50 to 180.50): VN064320.D (-4073) (-)

Ion 181.80 (181.50 to 182.50): VN064320.D (-4073) (-)

Ion 144.80 (144.50 to 145.50): VN064320.D (-4073) (-)





#95

Naphthalene

Concen: 2.543 ug/l

RT: 15.11 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Instrument :

MSVOA_N

ClientSampleId :

PB132665ZHE#02

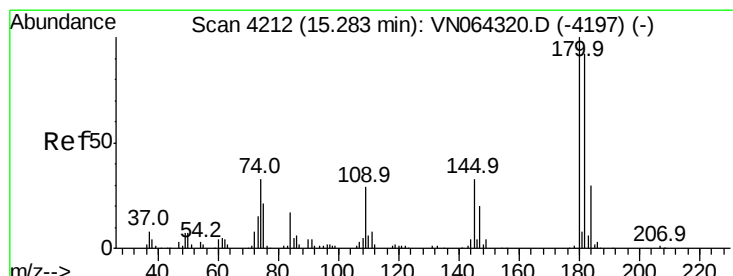
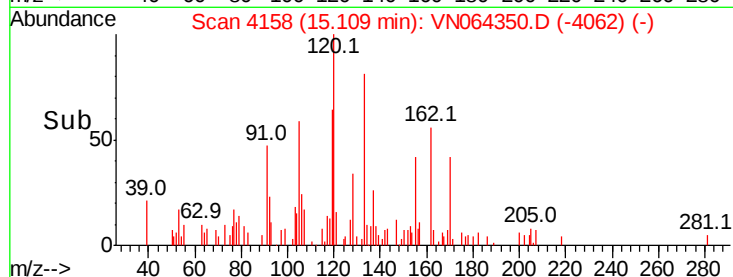
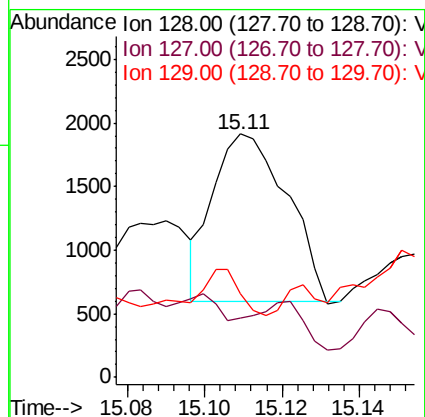
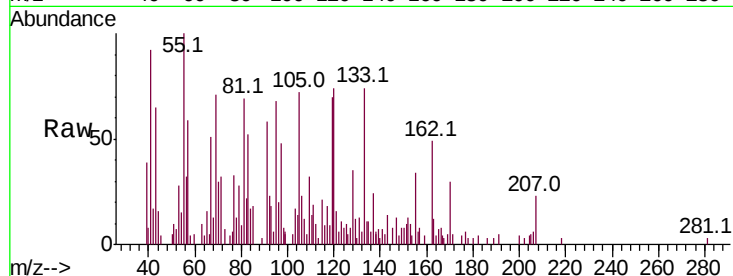
Tot Ion:128 Resp: 1751

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 12.4 8.6 13.0



#96

1,2,3-Trichlorobenzene

Concen: 2.268 ug/l

RT: 15.29 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN064350.D

Acq: 28 Oct 2020 14:22

Tgt Ion:180 Resp: 312

Ion Ratio Lower Upper

180 100

182 73.1 46.1 138.3

145 629.8 16.2 48.5#

