

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111120\
 Data File : VN064554.D
 Acq On : 11 Nov 2020 14:49
 Operator : JC/MD
 Sample : L4684-04DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-418-420DL

Quant Time: Nov 12 01:32:14 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	244117	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	487668	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	507534	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	184215	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	240246	56.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.00%	
35) Dibromofluoromethane	7.55	113	175328	52.80	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.60%	
50) Toluene-d8	10.06	98	637398	49.67	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.34%	
62) 4-Bromofluorobenzene	12.38	95	235605	48.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.08%	

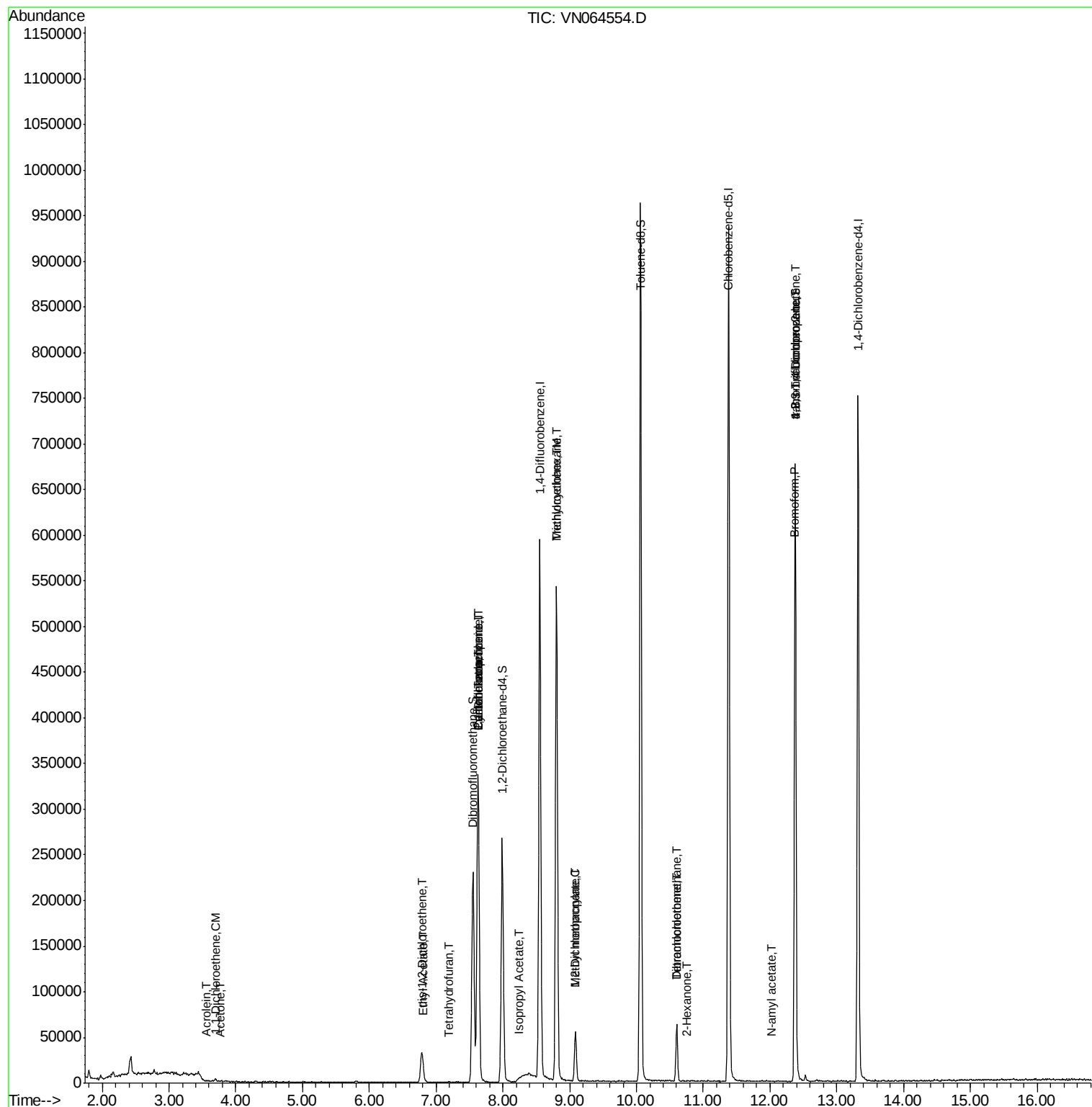
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
12) 1,1-Dichloroethene	3.69	96	1177	0.451	ug/l	89
13) Acrolein	3.57	56	92	0.316	ug/l	96
16) Acetone	3.77	43	959	0.592	ug/l #	48
27) cis-1,2-Dichloroethene	6.78	96	18440	5.368	ug/l	85
29) Tetrahydrofuran	7.19	42	390	0.308	ug/l #	37
31) Cyclohexane	7.62	56	7604	1.471	ug/l #	38
36) 1,1-Dichloropropene	7.63	75	22306	4.330	ug/l #	53
37) Ethyl Acetate	6.81	43	210	0.802	ug/l #	71
38) Carbon Tetrachloride	7.63	117	27836	5.056	ug/l #	18
39) Methylcyclohexane	8.79	83	2248	0.487	ug/l #	1
43) Isopropyl Acetate	8.23	43	2787	0.334	ug/l #	64
44) Trichloroethene	8.80	130	189374	49.581	ug/l	98
45) 1,2-Dichloropropane	9.08	63	19324	4.784	ug/l	91
48) Methyl methacrylate	9.09	41	13236	3.142	ug/l #	38
59) 2-Hexanone	10.74	43	297	4.102	ug/l #	28
60) Dibromochloromethane	10.60	129	12678	3.145	ug/l #	10
64) Tetrachloroethene	10.60	164	13443	3.439	ug/l	91
71) Bromoform	12.36	173	131	1.316	ug/l #	29
74) N-amyl acetate	12.03	43	151	1.235	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	132814	29.756	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	132814	83.083	ug/l #	8

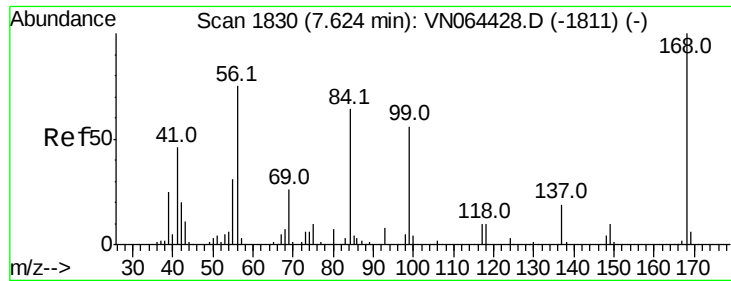
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

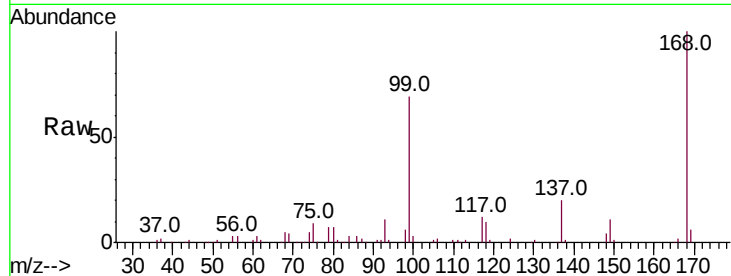
BP-VPB178-GW-418-420DL

Tot Ion:168 Resp: 244117

Ion Ratio Lower Upper

168 100

99 68.9 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

120000

100000

80000

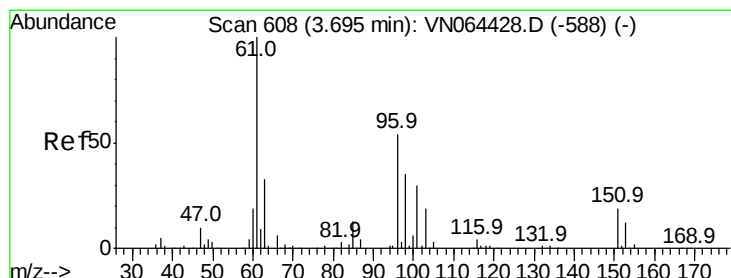
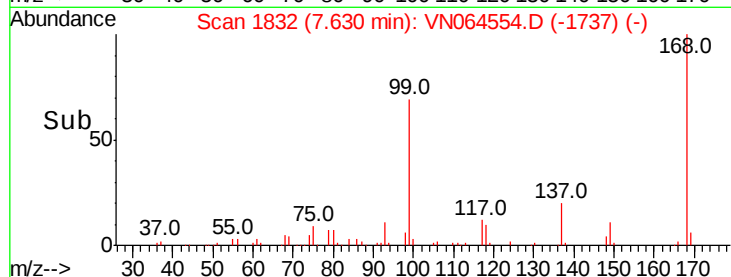
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#12

1,1-Dichloroethene

Concen: 0.451 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

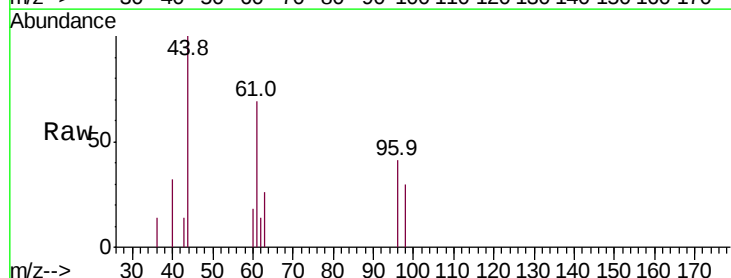
Tgt Ion: 96 Resp: 1177

Ion Ratio Lower Upper

96 100

61 170.4 149.5 224.3

98 73.1 52.4 78.6



Abundance Ion 95.90 (95.60 to 96.60): VN

Ion 60.90 (60.60 to 61.60): VN

Ion 97.90 (97.60 to 98.60): VN

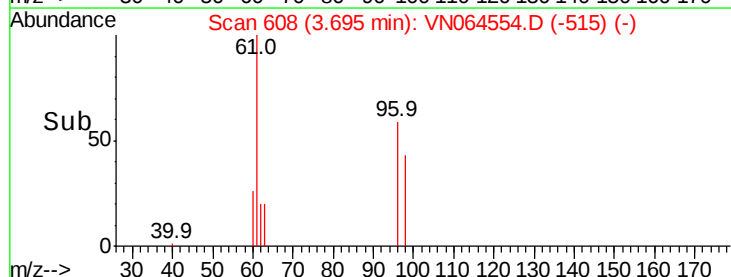
3.69

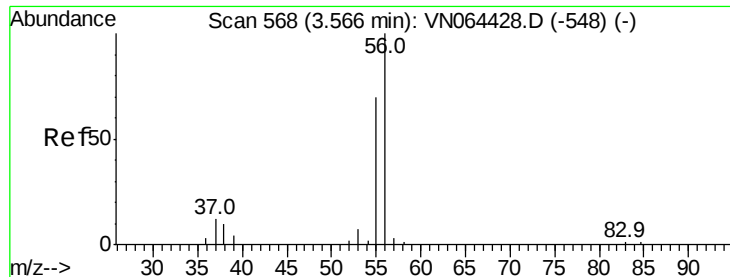
1000

500

0

Time--> 3.65 3.70 3.75





#13

Acrolein

Concen: 0.316 ug/l

RT: 3.57 min Scan# 568

Delta R.T. -0.00 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

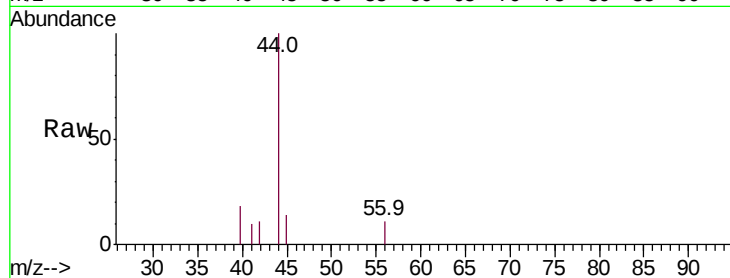
BP-VPB178-GW-418-420DL

Tot Ion: 56 Resp: 92

Ion Ratio Lower Upper

56 100

55 72.8 55.9 83.9

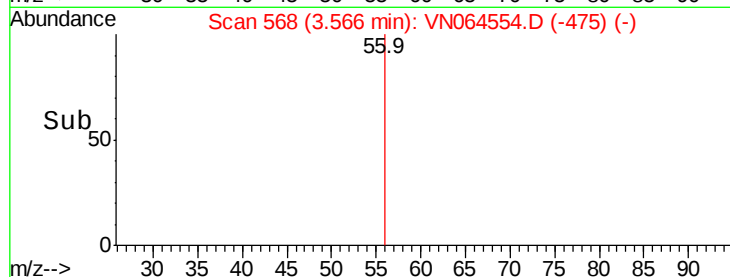


Abundance Ion 56.00 (55.70 to 56.70): VN0

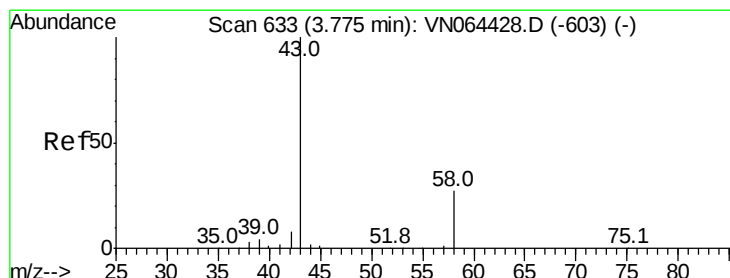
Ion 55.00 (54.70 to 55.70): VN0

3.57

Time-->



Time-->



#16

Acetone

Concen: 0.592 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.00 min

Lab File: VN064554.D

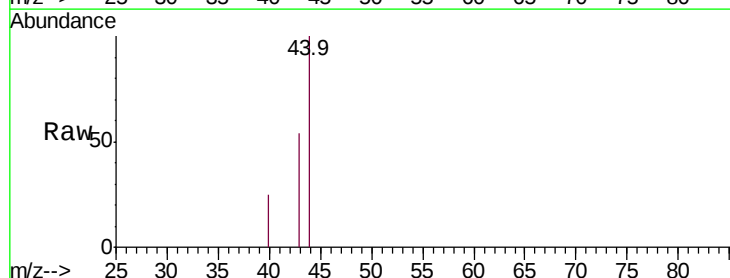
Acq: 11 Nov 2020 14:49

Tgt Ion: 43 Resp: 959

Ion Ratio Lower Upper

43 100

58 0.0 21.4 32.0#

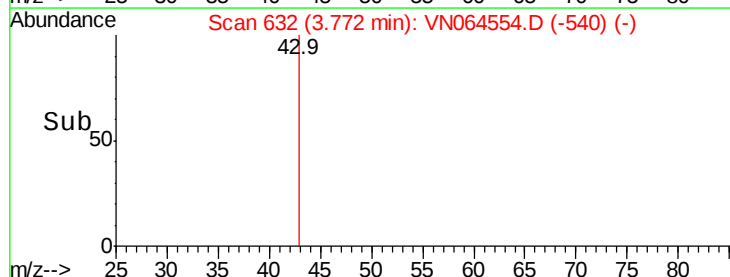


Abundance Ion 43.00 (42.70 to 43.70): VN0

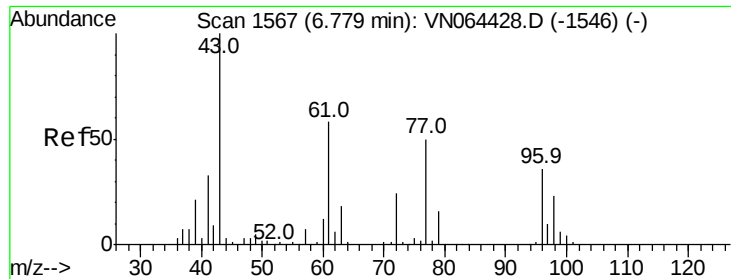
Ion 58.00 (57.70 to 58.70): VN0

3.77

Time-->



Time-->



#27

cis-1,2-Dichloroethene

Concen: 5.368 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-418-420DL

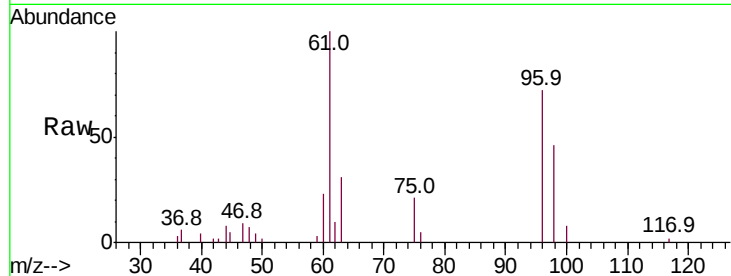
Tot Ion: 96 Resp: 18440

Ion Ratio Lower Upper

96 100

61 137.9 0.0 329.6

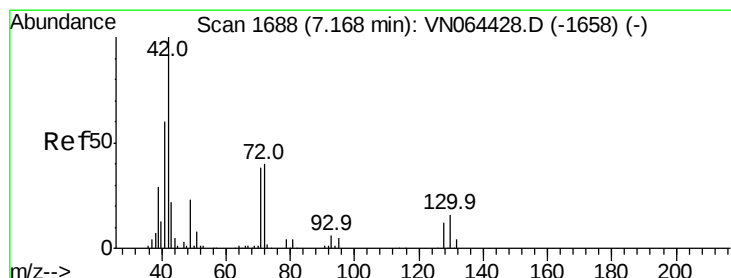
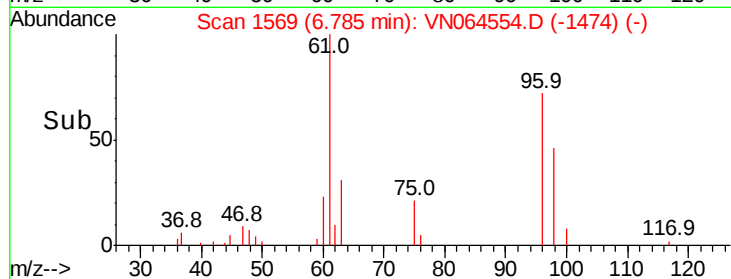
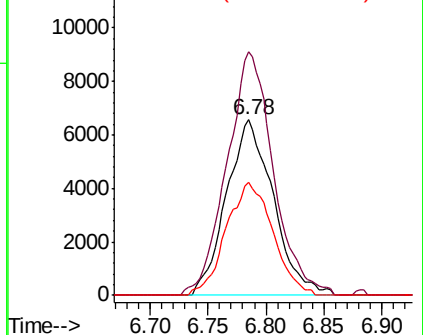
98 64.1 0.0 131.2



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#29

Tetrahydrofuran

Concen: 0.308 ug/l

RT: 7.19 min Scan# 1694

Delta R.T. 0.02 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

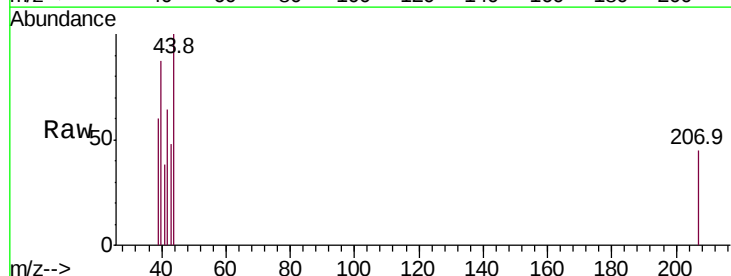
Tgt Ion: 42 Resp: 390

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

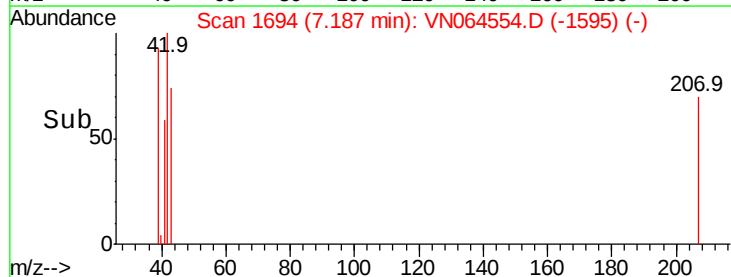
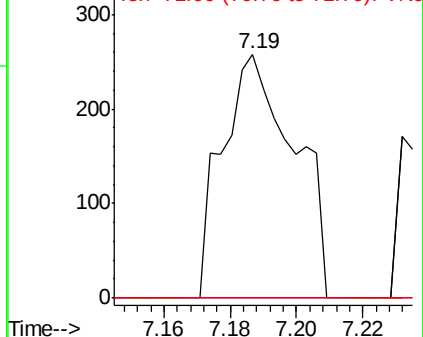
71 0.0 29.8 44.6#

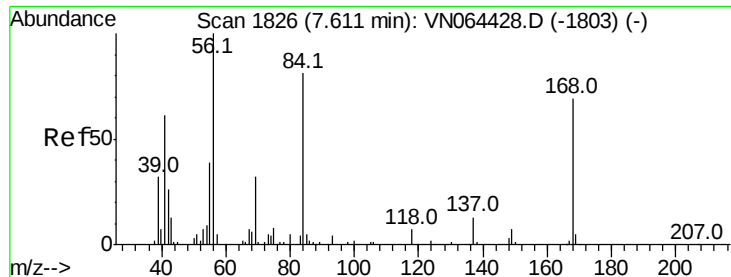


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

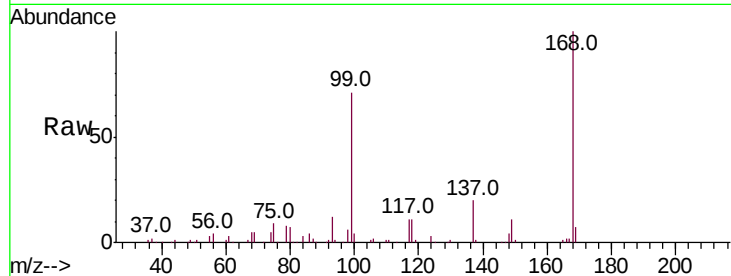




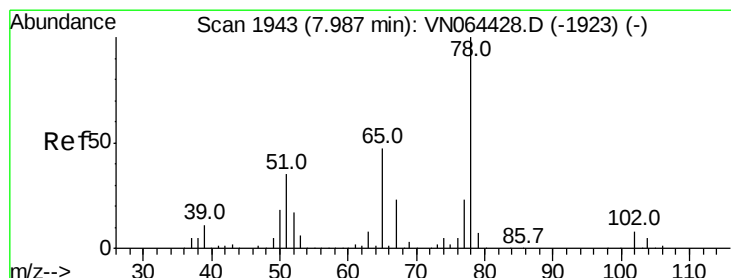
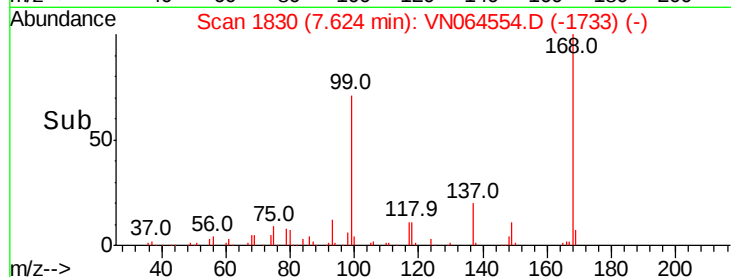
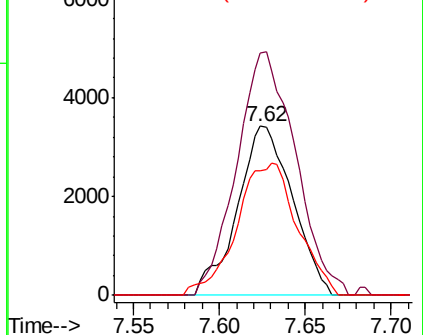
#31
Cyclohexane
Concen: 1.471 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.01 min
Lab File: VN064554.D
Acq: 11 Nov 2020 14:49

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-418-420DL

Tot Ion: 56 Resp: 7604
Ion Ratio Lower Upper
56 100
69 143.5 25.6 38.4#
84 73.5 63.0 94.6

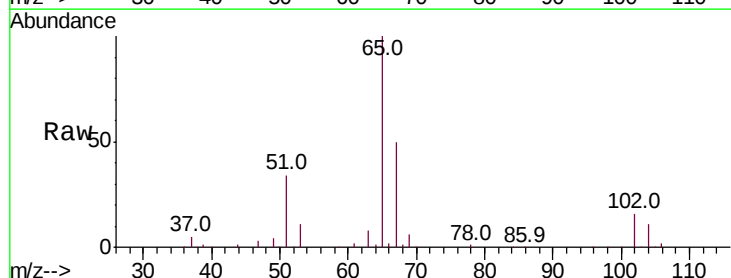


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

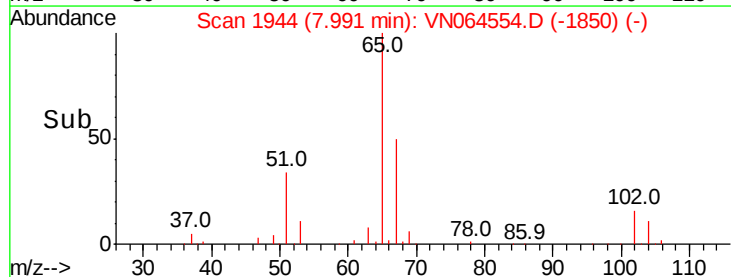
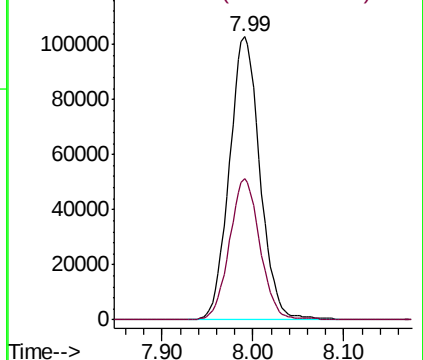


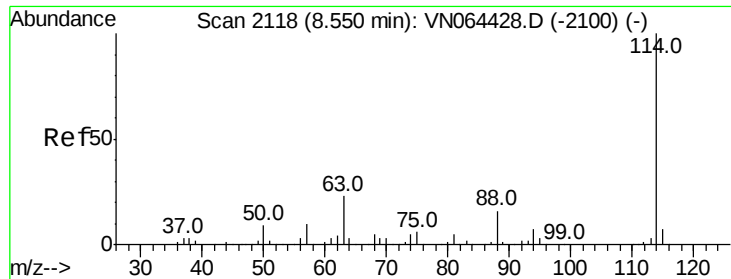
#33
1,2-Dichloroethane-d4
Concen: 56.500 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064554.D
Acq: 11 Nov 2020 14:49

Tgt Ion: 65 Resp: 240246
Ion Ratio Lower Upper
65 100
67 49.5 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

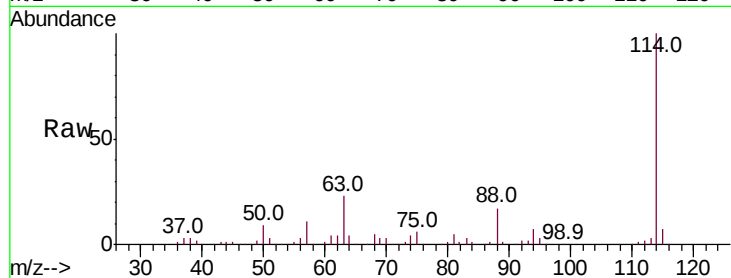




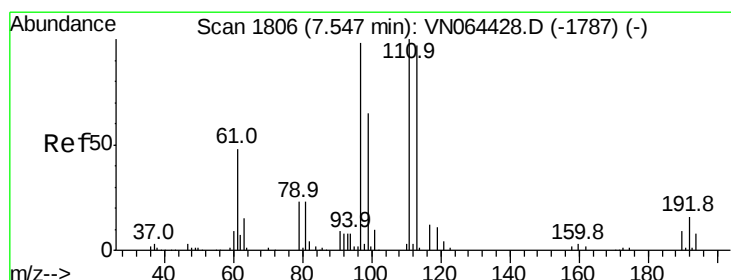
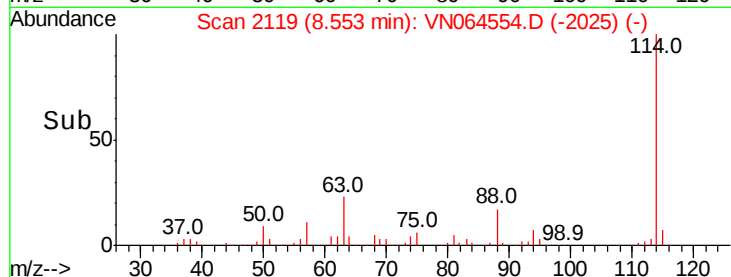
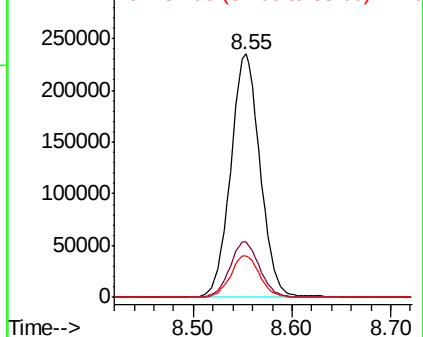
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064554.D
 Acq: 11 Nov 2020 14:49

Instrument :
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 BP-VPB178-GW-418-420DL

Tot Ion:114 Resp: 487668
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 45.6
 88 16.8 0.0 32.8

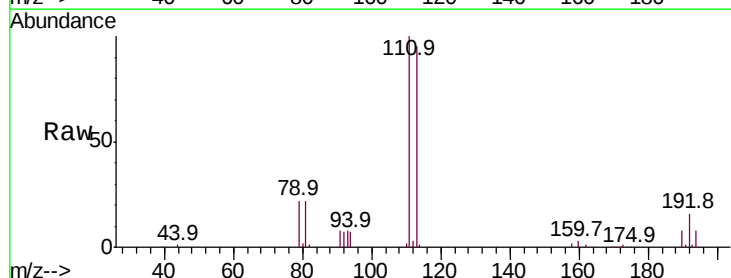


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

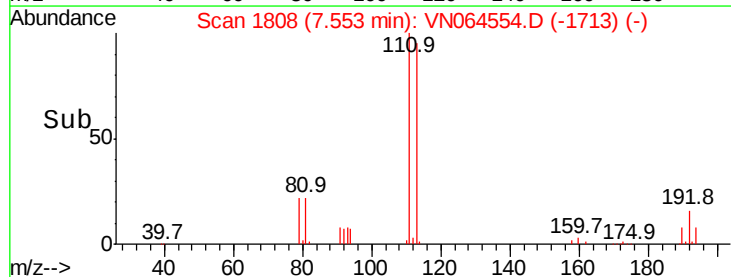
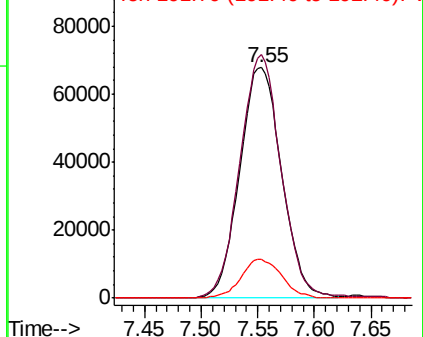


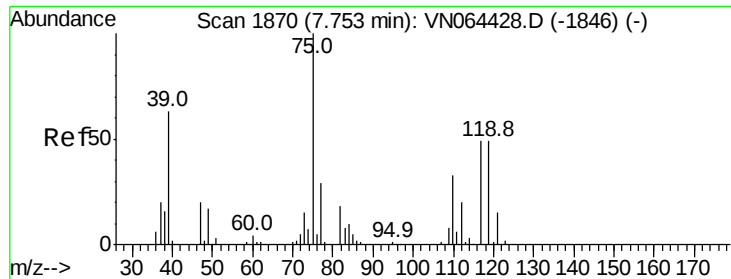
#35
 Dibromofluoromethane
 Concen: 52.804 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064554.D
 Acq: 11 Nov 2020 14:49

Tgt Ion:113 Resp: 175328
 Ion Ratio Lower Upper
 113 100
 111 103.7 81.1 121.7
 192 16.4 12.8 19.2



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

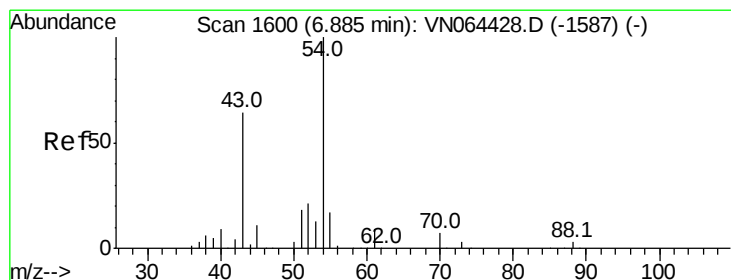
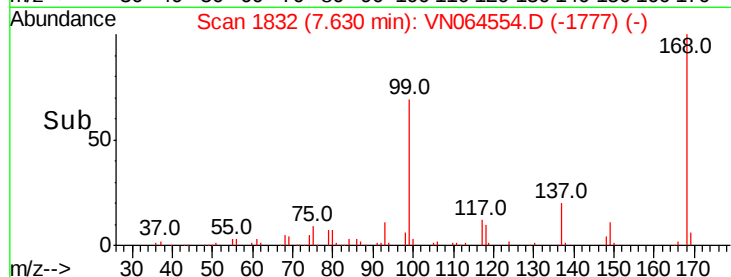
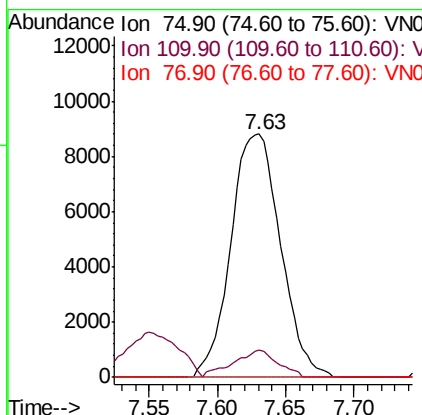
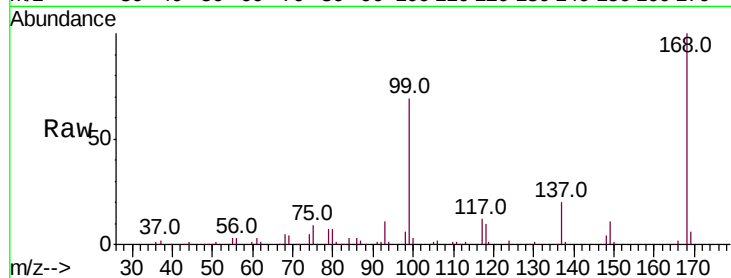




#36
 1,1-Dichloropropene
 Concen: 4.330 ug/l
 RT: 7.63 min Scan# 1832
 Delta R.T. -0.12 min
 Lab File: VN064554.D
 Acq: 11 Nov 2020 14:49

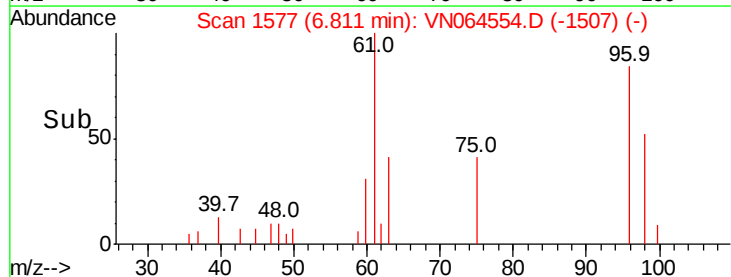
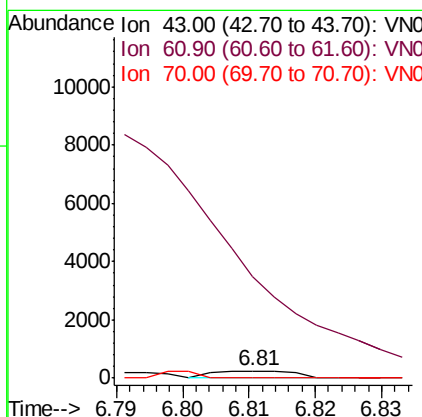
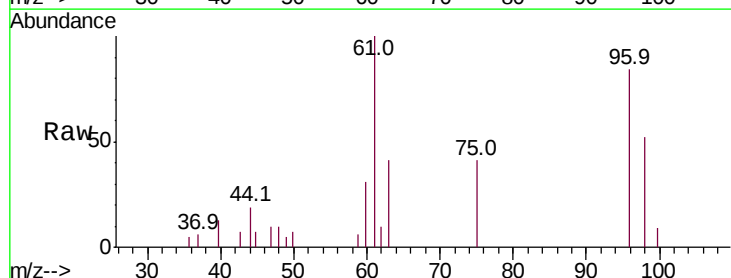
Instrument :
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 BP-VPB178-GW-418-420DL

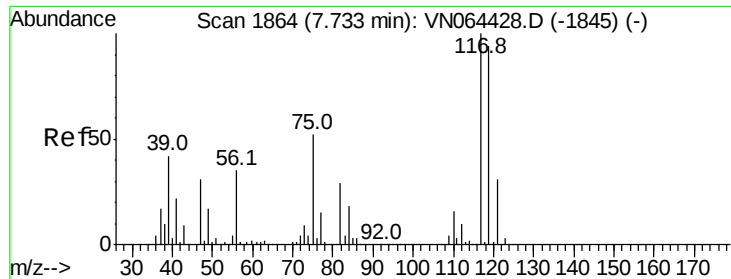
Tot Ion: 75 Resp: 22306
 Ion Ratio Lower Upper
 75 100
 110 10.0 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.802 ug/l
 RT: 6.81 min Scan# 1577
 Delta R.T. -0.07 min
 Lab File: VN064554.D
 Acq: 11 Nov 2020 14:49

Tgt Ion: 43 Resp: 210
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 5.056 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. -0.10 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-418-420DL

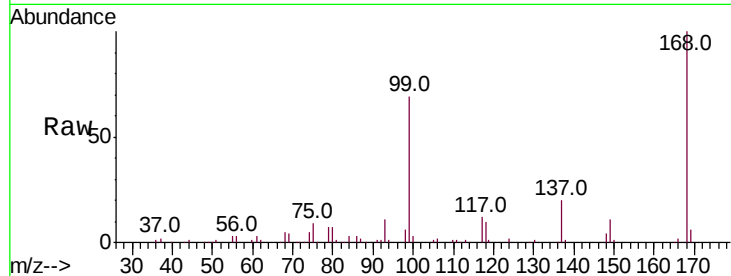
Tot Ion:117 Resp: 27836

Ion Ratio Lower Upper

117 100

119 6.5 75.5 113.3#

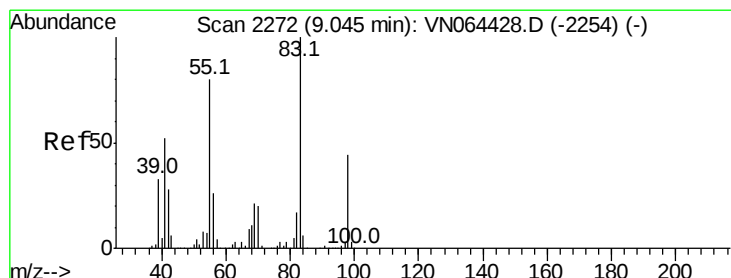
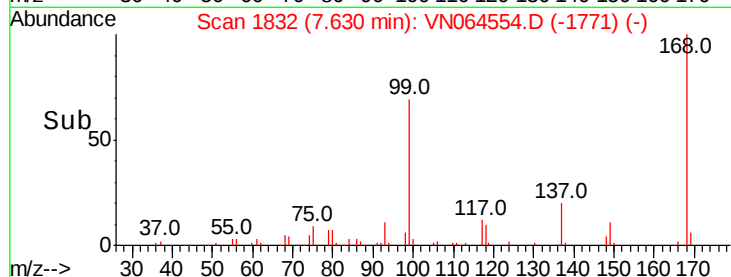
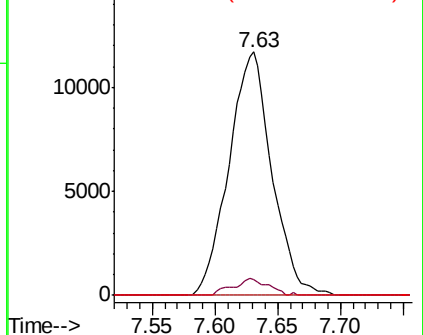
121 0.0 24.4 36.6#



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



#39

Methylcyclohexane

Concen: 0.487 ug/l

RT: 8.79 min Scan# 2194

Delta R.T. -0.25 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

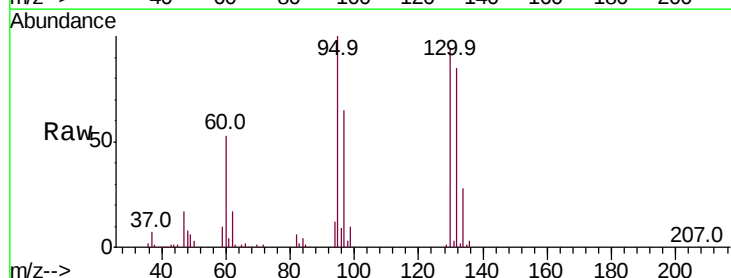
Tgt Ion: 83 Resp: 2248

Ion Ratio Lower Upper

83 100

55 0.0 63.8 95.6#

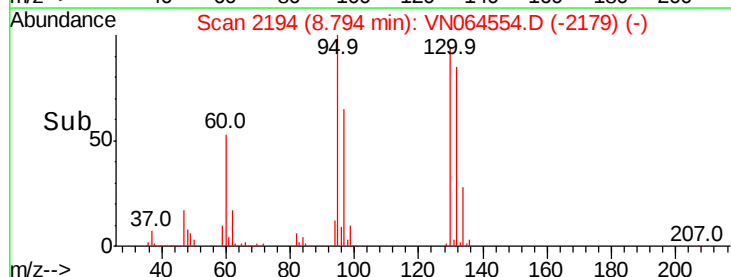
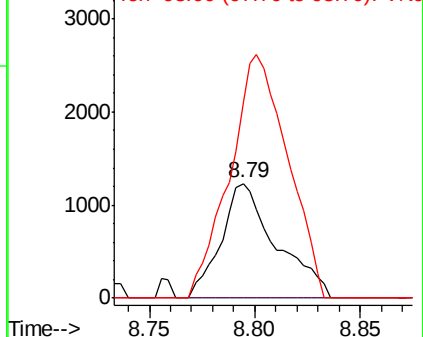
98 171.6 35.4 53.2#

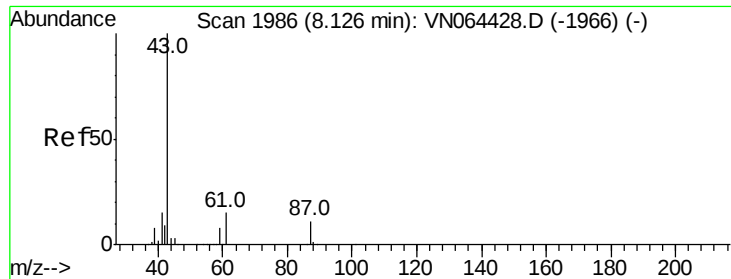


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#43

Isopropyl Acetate

Concen: 0.334 ug/l

RT: 8.23 min Scan# 2019

Delta R.T. 0.11 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-418-420DL

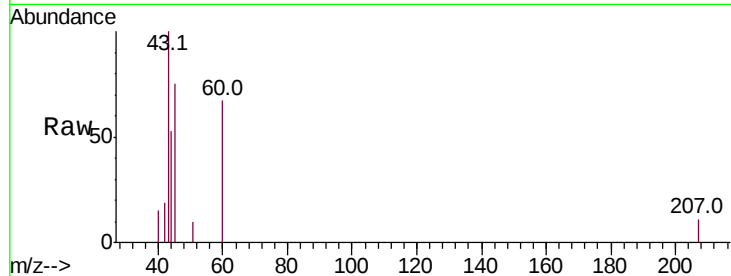
Tot Ion: 43 Resp: 2787

Ion Ratio Lower Upper

43 100

61 0.0 14.0 21.0#

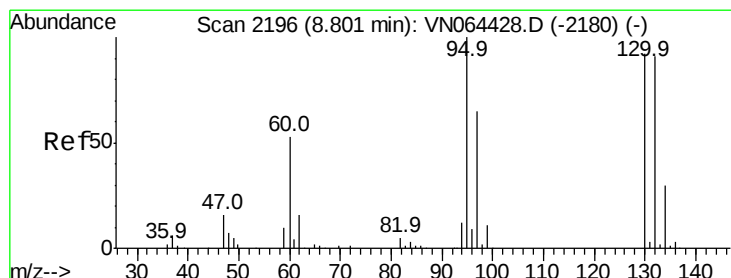
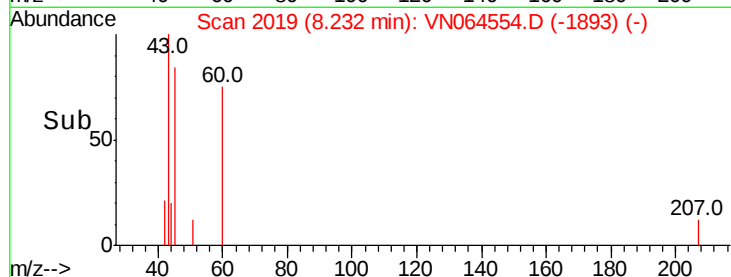
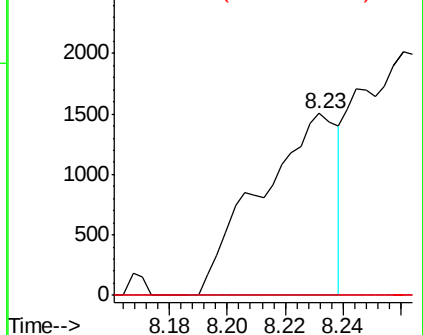
87 0.0 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN064428.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN064428.D (-1966) (-)



#44

Trichloroethene

Concen: 49.581 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN064554.D

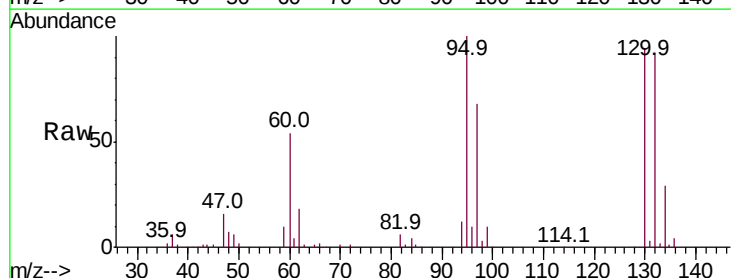
Acq: 11 Nov 2020 14:49

Tgt Ion:130 Resp: 189374

Ion Ratio Lower Upper

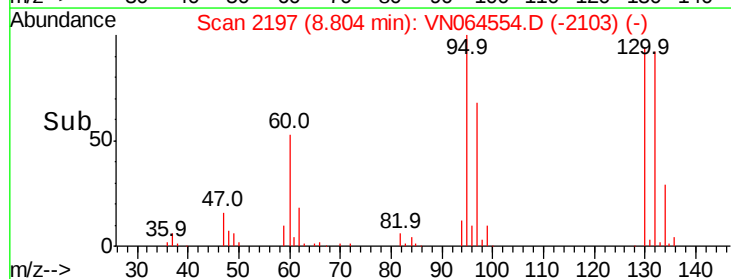
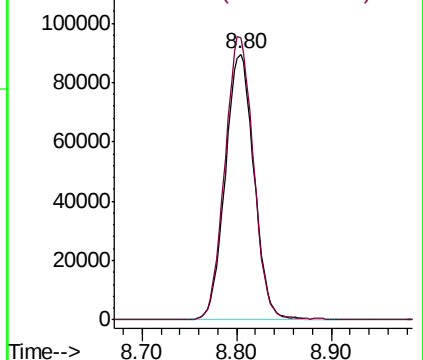
130 100

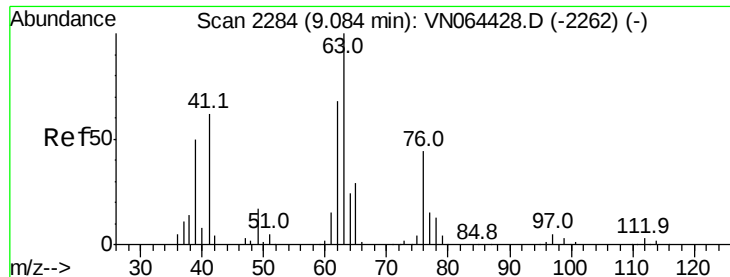
95 106.0 0.0 216.8



Abundance Ion 129.80 (129.50 to 130.50): VN064428.D (-2180) (-)

Ion 94.90 (94.60 to 95.60): VN064428.D (-2180) (-)

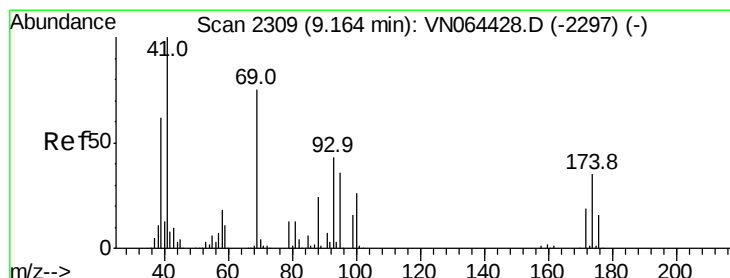
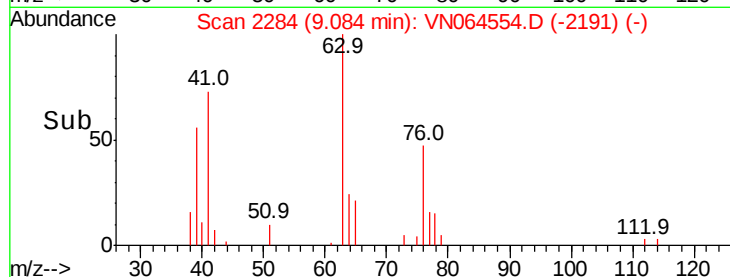
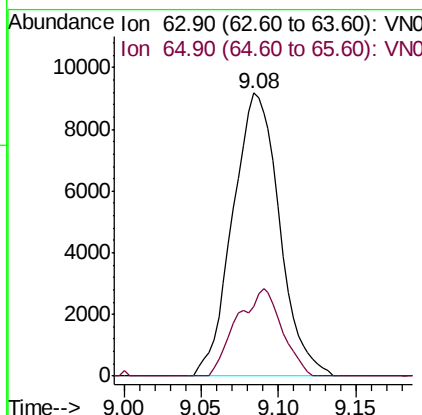
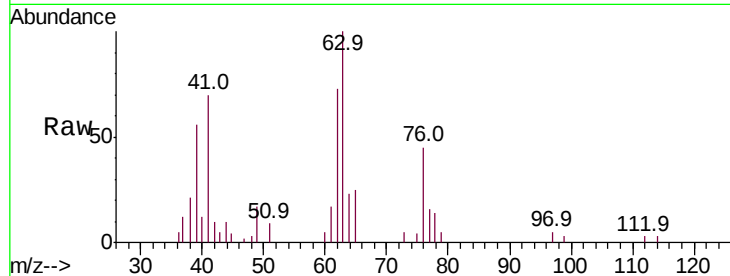




#45
 1,2-Dichloropropane
 Concen: 4.784 ug/l
 RT: 9.08 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN064554.D
 Acq: 11 Nov 2020 14:49

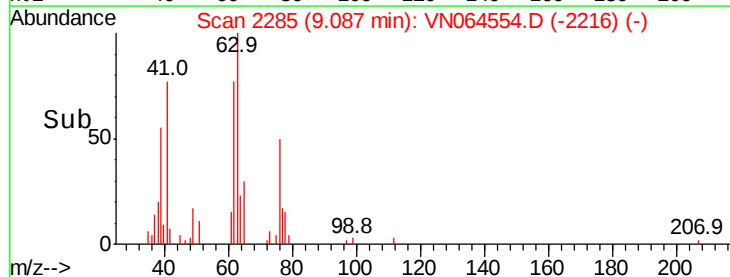
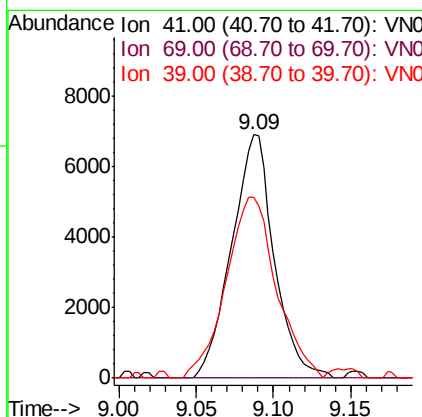
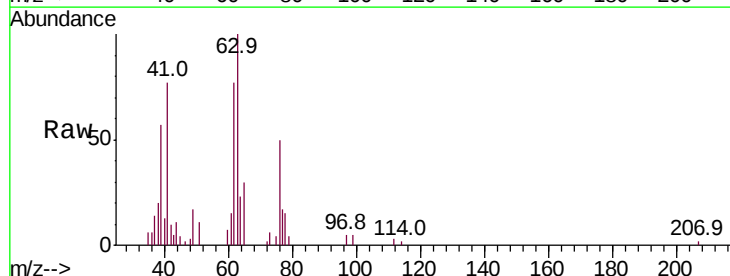
Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-418-420DL

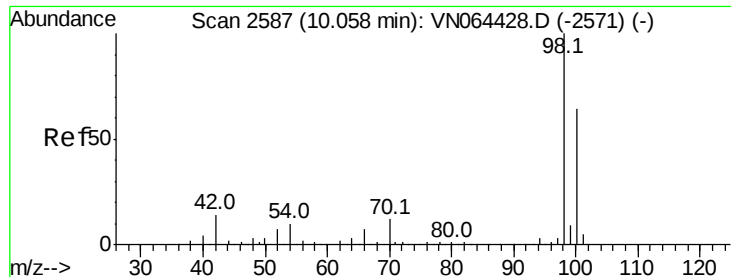
Tot Ion: 63 Resp: 19324
 Ion Ratio Lower Upper
 63 100
 65 24.6 23.6 35.4



#48
 Methyl methacrylate
 Concen: 3.142 ug/l
 RT: 9.09 min Scan# 2285
 Delta R.T. -0.08 min
 Lab File: VN064554.D
 Acq: 11 Nov 2020 14:49

Tgt Ion: 41 Resp: 13236
 Ion Ratio Lower Upper
 41 100
 69 0.0 60.4 90.6#
 39 87.7 51.2 76.8#





#50

Toluene-d8

Concen: 49.668 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

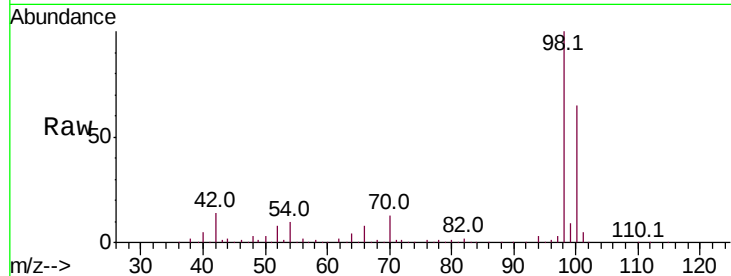
BP-VPB178-GW-418-420DL

Tot Ion: 98 Resp: 637398

Ion Ratio Lower Upper

98 100

100 63.6 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

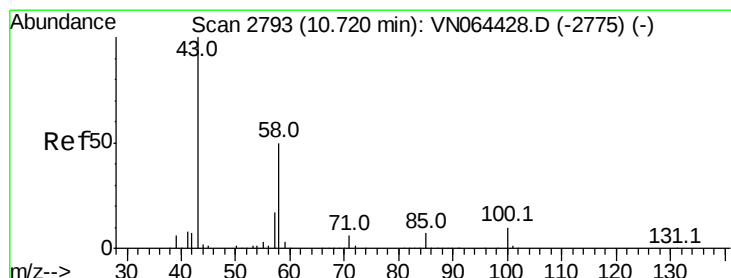
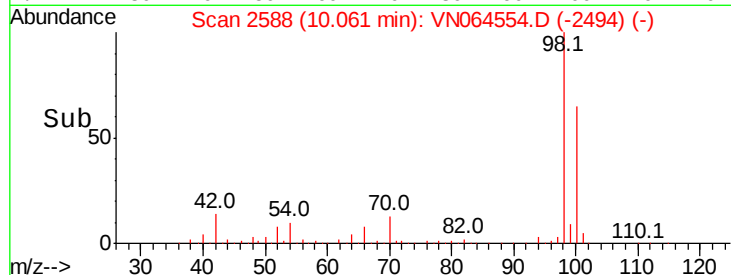
300000

200000

100000

0

Time-->



#59

2-Hexanone

Concen: 4.102 ug/l

RT: 10.74 min Scan# 2800

Delta R.T. 0.02 min

Lab File: VN064554.D

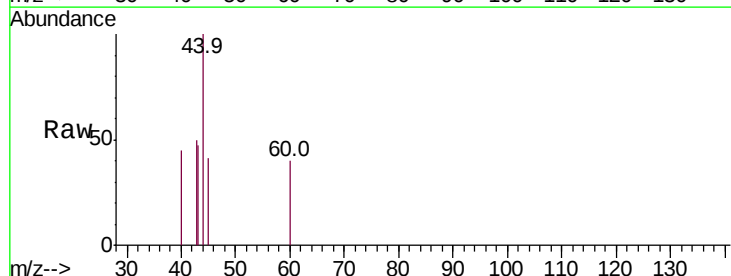
Acq: 11 Nov 2020 14:49

Tgt Ion: 43 Resp: 297

Ion Ratio Lower Upper

43 100

58 0.0 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.74

800

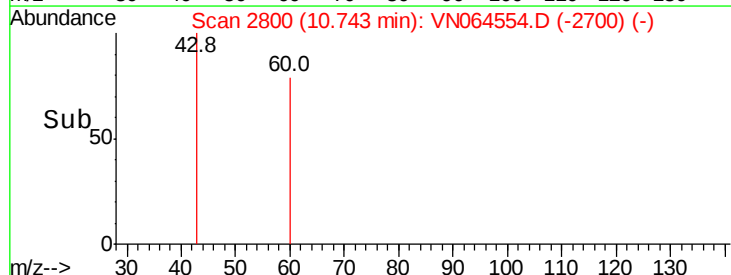
600

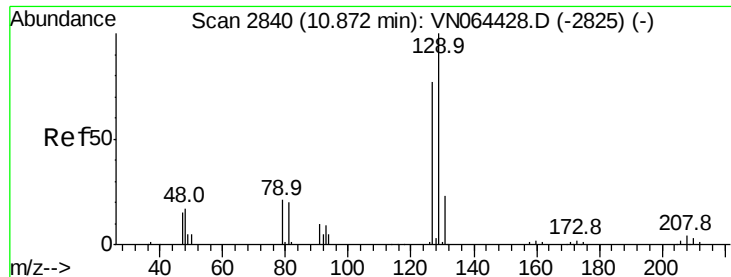
400

200

0

Time-->





#60

Dibromochloromethane

Concen: 3.145 ug/l

RT: 10.60 min Scan# 2756

Delta R.T. -0.27 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

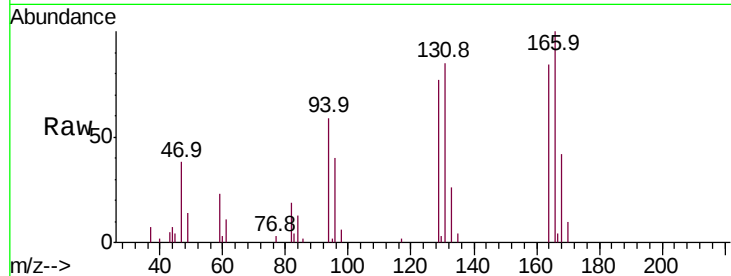
BP-VPB178-GW-418-420DL

Tot Ion:129 Resp: 12678

Ion Ratio Lower Upper

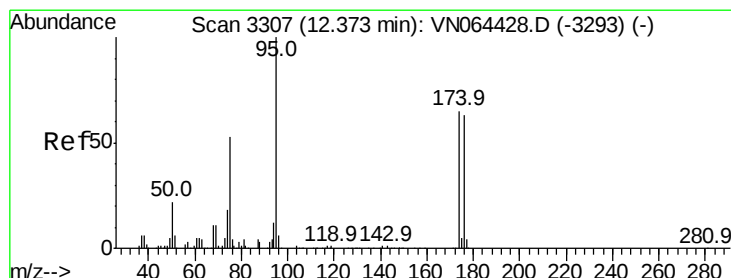
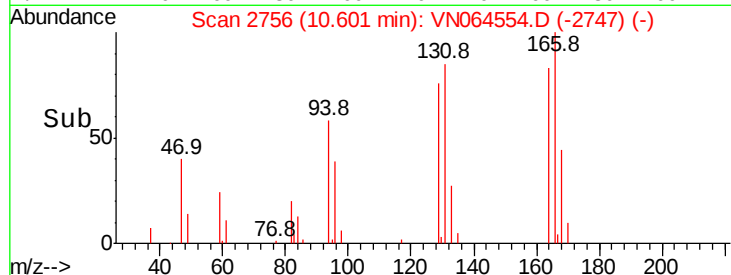
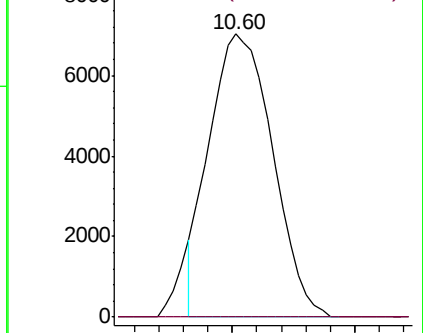
129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 48.545 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

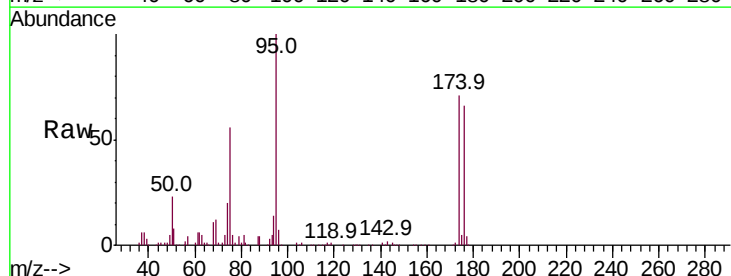
Tgt Ion: 95 Resp: 235605

Ion Ratio Lower Upper

95 100

174 71.8 0.0 132.6

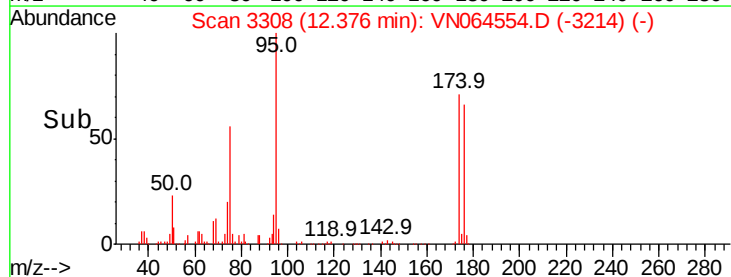
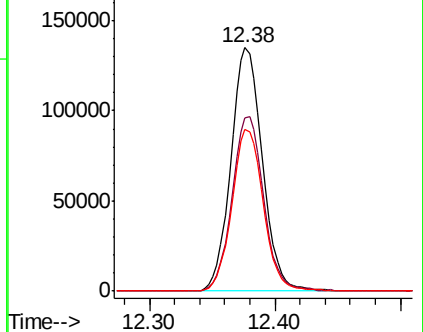
176 66.4 0.0 129.2

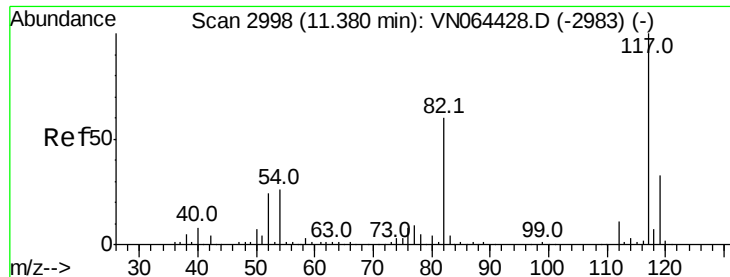


Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

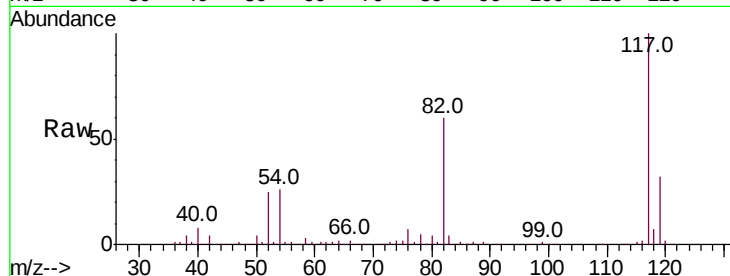




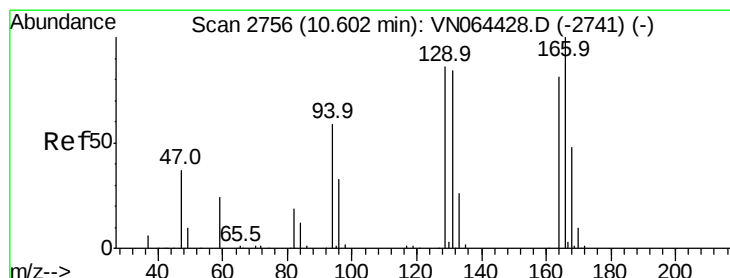
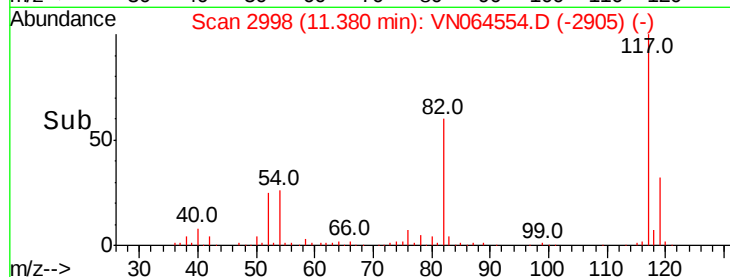
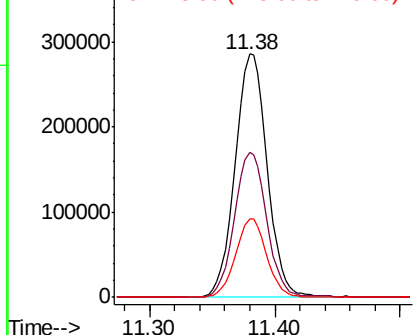
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064554.D
Acq: 11 Nov 2020 14:49

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-418-420DL

Tot Ion:117 Resp: 507534
Ion Ratio Lower Upper
117 100
82 59.5 48.1 72.1
119 32.4 26.2 39.4



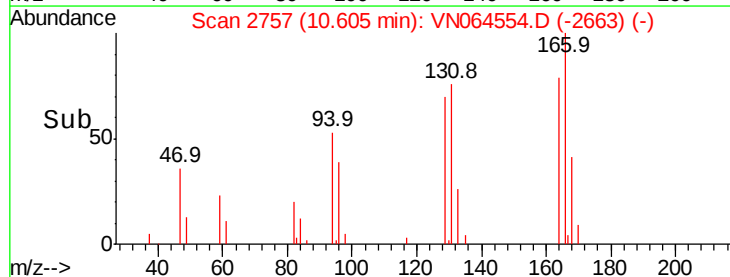
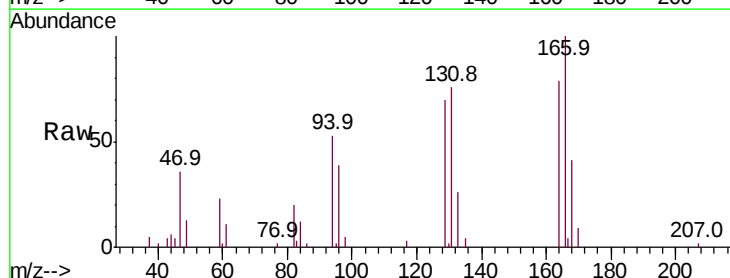
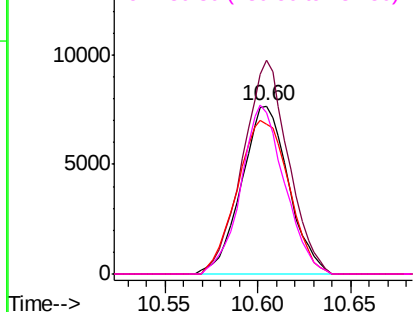
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

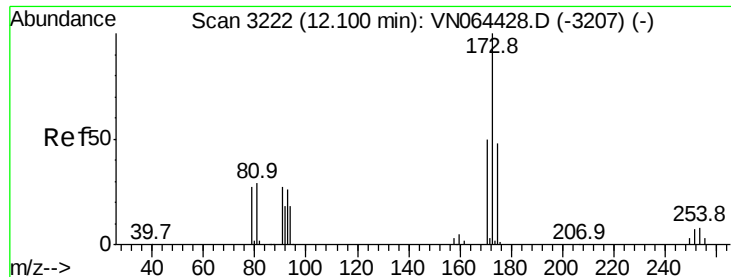


#64
Tetrachloroethene
Concen: 3.439 ug/l
RT: 10.60 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VN064554.D
Acq: 11 Nov 2020 14:49

Tgt Ion:164 Resp: 13443
Ion Ratio Lower Upper
164 100
166 127.4 98.2 147.2
129 89.1 84.6 127.0
131 96.4 82.2 123.2

Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

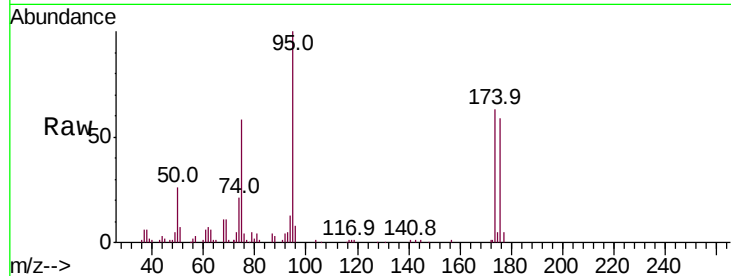




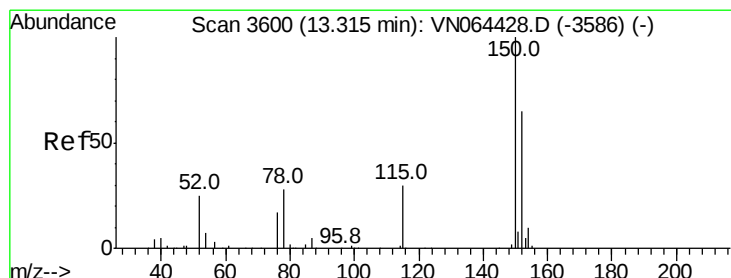
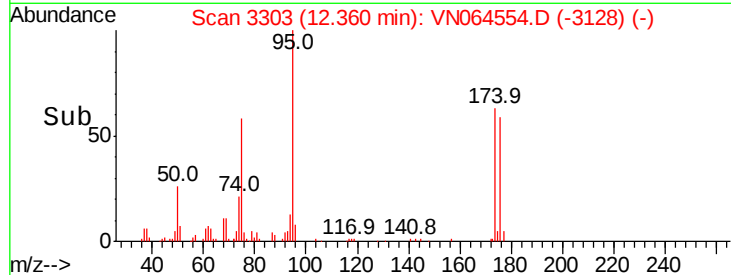
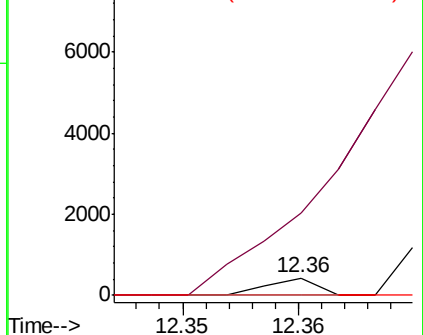
#71
Bromoform
Concen: 1.316 ug/l
RT: 12.36 min Scan# 3303
Delta R.T. 0.26 min
Lab File: VN064554.D
Acq: 11 Nov 2020 14:49

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-418-420DL

Tot Ion:173 Resp: 131
Ion Ratio Lower Upper
173 100
175 0.0 23.7 71.1#
254 0.0 0.0 0.0

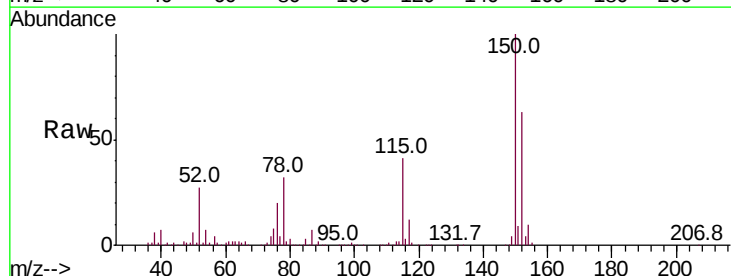


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

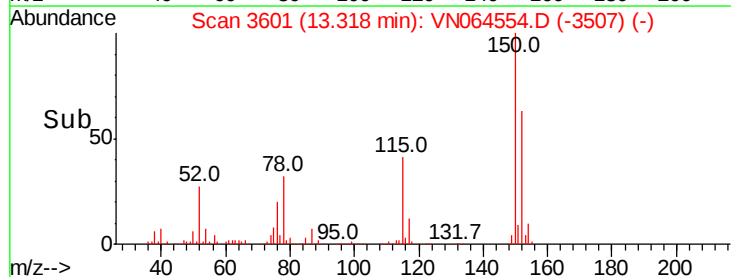
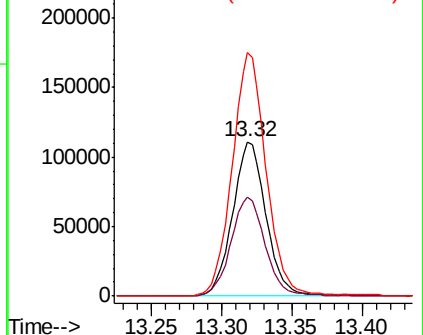


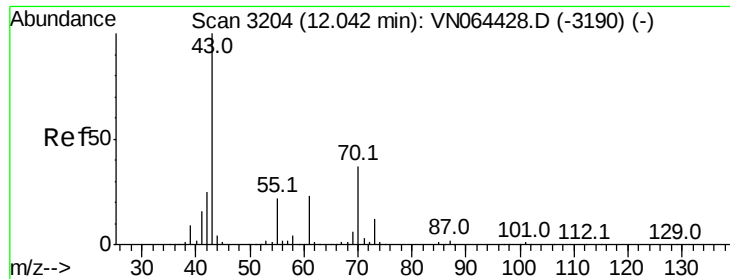
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064554.D
Acq: 11 Nov 2020 14:49

Tgt Ion:152 Resp: 184215
Ion Ratio Lower Upper
152 100
115 65.6 32.0 96.0
150 160.4 0.0 353.8



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





#74

N-amvl acetate

Concen: 1.235 ug/l

RT: 12.03 min Scan# 3200

Delta R.T. -0.01 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-418-420DL

Tot Ion: 43 Resp: 151

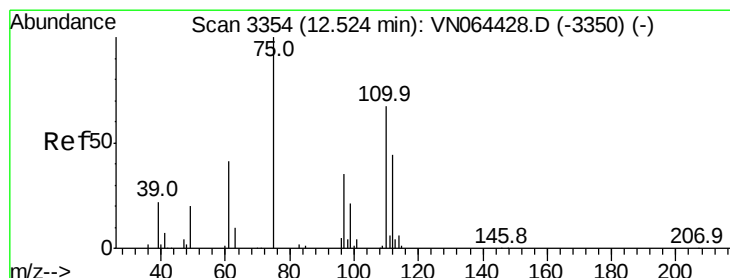
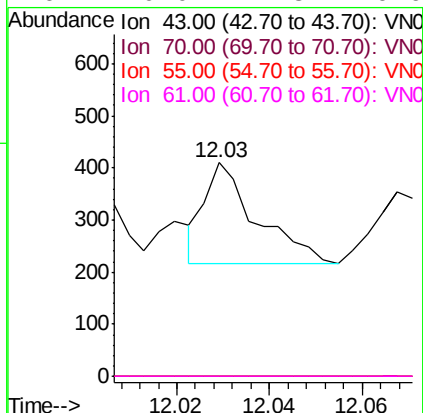
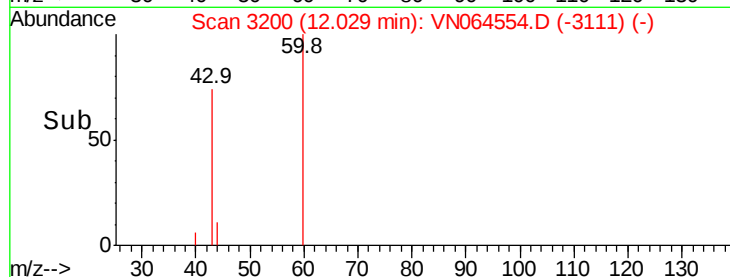
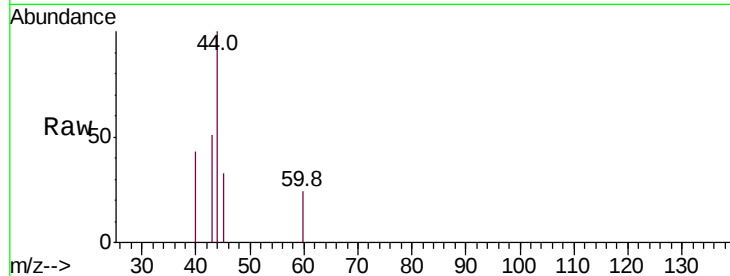
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#



#76

1,2,3-Trichloropropane

Concen: 29.756 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064554.D

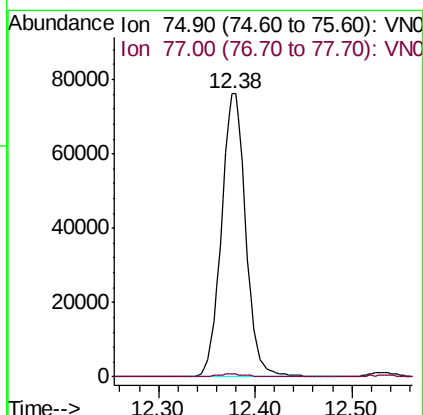
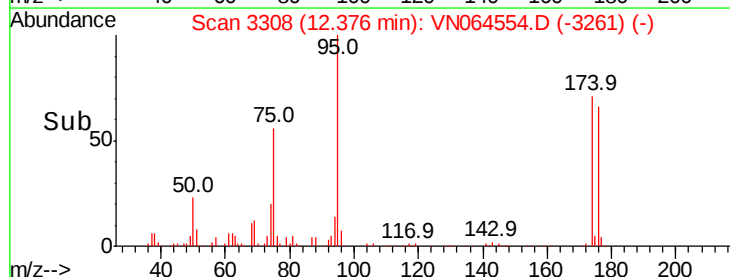
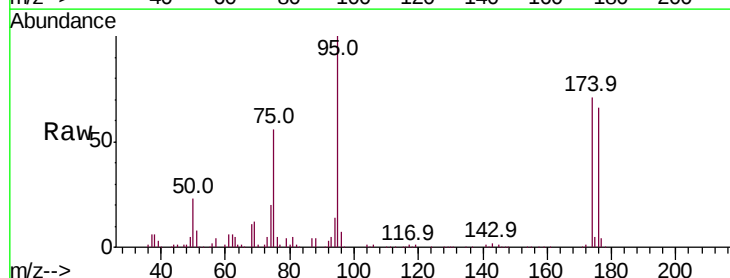
Acq: 11 Nov 2020 14:49

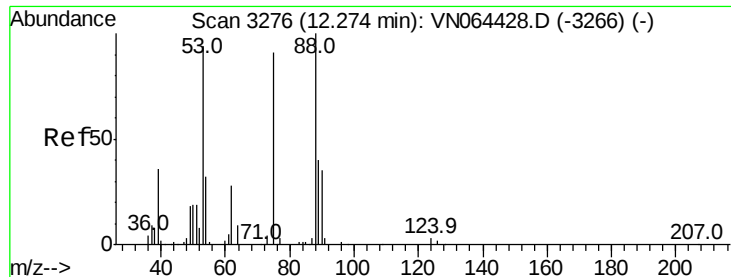
Tgt Ion: 75 Resp: 132814

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 83.083 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064554.D

Acq: 11 Nov 2020 14:49

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-418-420DL

Tot Ion: 75 Resp: 132814

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#

