

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111320\
 Data File : VN064629.D
 Acq On : 13 Nov 2020 14:12
 Operator : JC/MD
 Sample : L4747-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-558-560

Quant Time: Nov 17 01:57:02 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	222486	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	465009	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	475236	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	170443	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	226937	58.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.12%	
35) Dibromofluoromethane	7.55	113	165065	52.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.28%	
50) Toluene-d8	10.06	98	590007	48.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.44%	
62) 4-Bromofluorobenzene	12.38	95	213380	46.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.22%	

Target Compounds

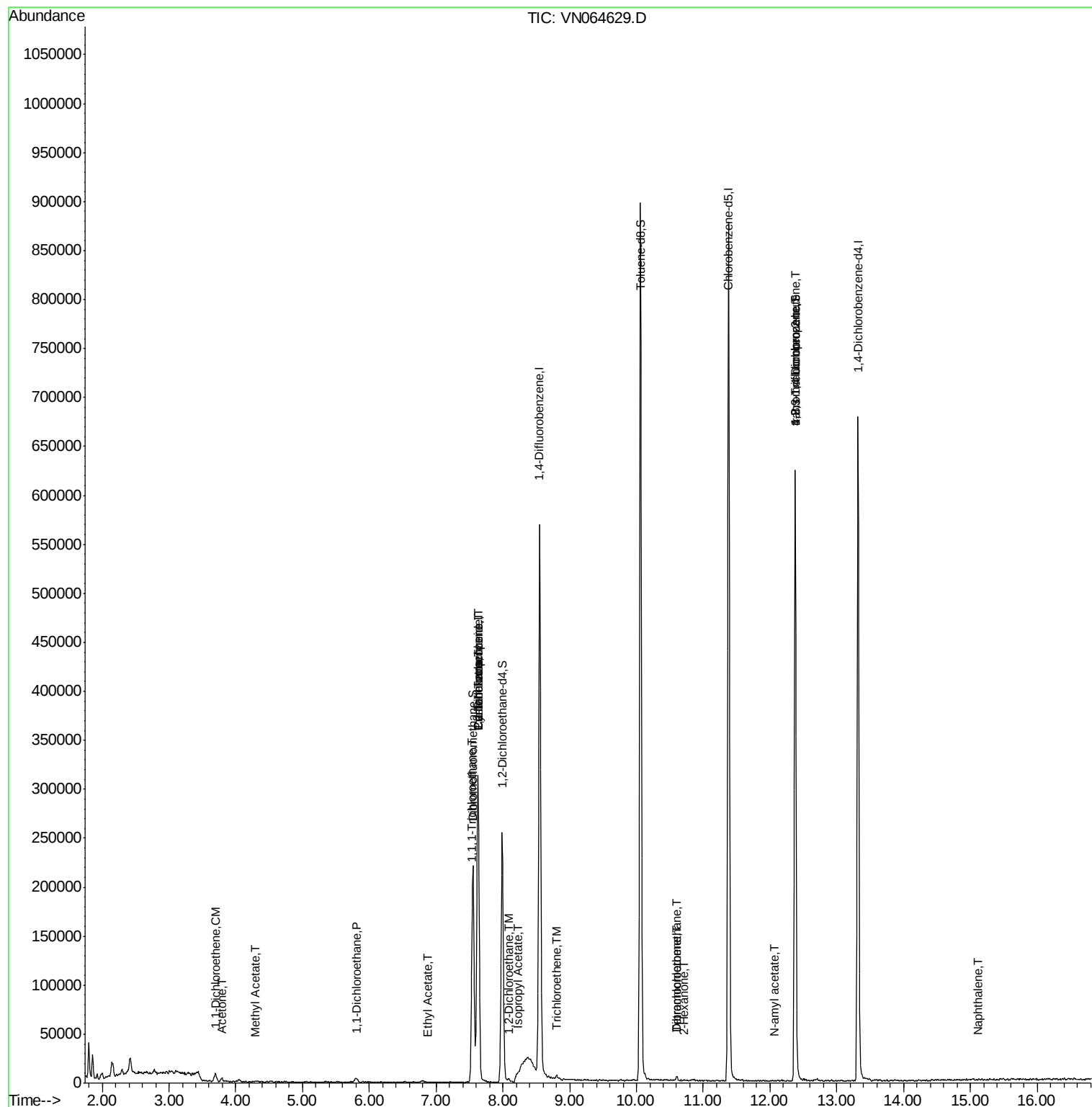
						Qvalue
12) 1,1-Dichloroethene	3.69	96	3090	1.299	ug/l #	81
16) Acetone	3.79	43	5058	3.426	ug/l #	75
18) Methyl Acetate	4.29	43	1472	0.507	ug/l #	76
24) 1,1-Dichloroethane	5.80	63	5734	1.056	ug/l #	77
31) Cyclohexane	7.62	56	7441	1.580	ug/l #	32
32) 1,1,1-Trichloroethane	7.53	97	3210	0.634	ug/l #	50
36) 1,1-Dichloropropene	7.63	75	21900	4.458	ug/l #	52
37) Ethyl Acetate	6.87	43	189	0.800	ug/l #	71
38) Carbon Tetrachloride	7.63	117	25441	4.846	ug/l #	17
42) 1,2-Dichloroethane	8.09	62	2824	0.485	ug/l	95
43) Isopropyl Acetate	8.21	43	5765	0.724	ug/l #	64
44) Trichloroethene	8.80	130	1445	0.397	ug/l	59
59) 2-Hexanone	10.71	43	136	4.063	ug/l #	28
60) Dibromochloromethane	10.60	129	779	0.203	ug/l #	10
64) Tetrachloroethene	10.60	164	923	0.252	ug/l #	72
74) N-amyl acetate	12.05	43	236	1.249	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	121767	29.486	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	121767	82.328	ug/l #	8
95) Naphthalene	15.11	128	32	3.626	ug/l #	69

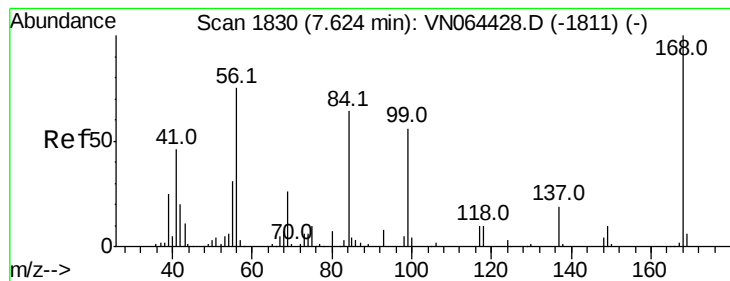
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BP-VPB178-GW-558-560

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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# 1831

Delta R.T. 0.00 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

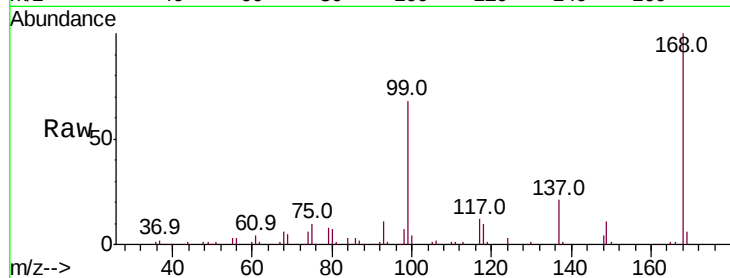
BP-VPB178-GW-558-560

Tot Ion:168 Resp: 222486

Ion Ratio Lower Upper

168 100

99 67.6 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

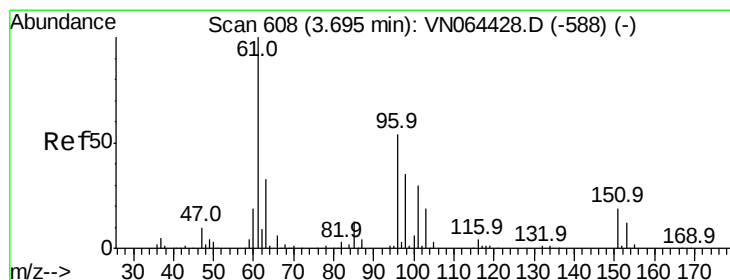
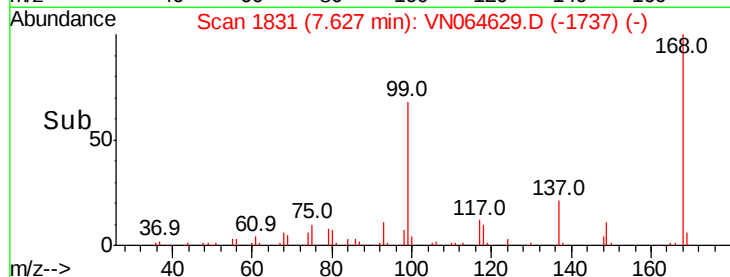
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#12

1,1-Dichloroethene

Concen: 1.299 ug/l

RT: 3.69 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

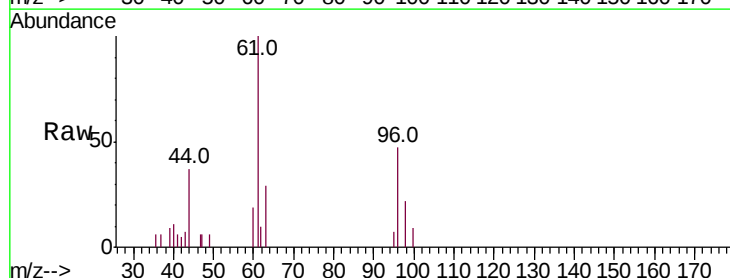
Tgt Ion: 96 Resp: 3090

Ion Ratio Lower Upper

96 100

61 212.7 149.5 224.3

98 46.5 52.4 78.6#



Abundance Ion 95.90 (95.60 to 96.60): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 97.90 (97.60 to 98.60): VNO

4000

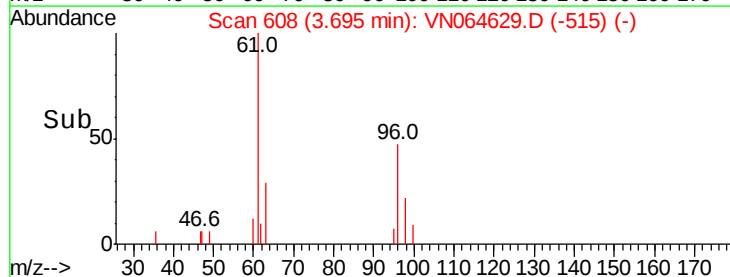
3000

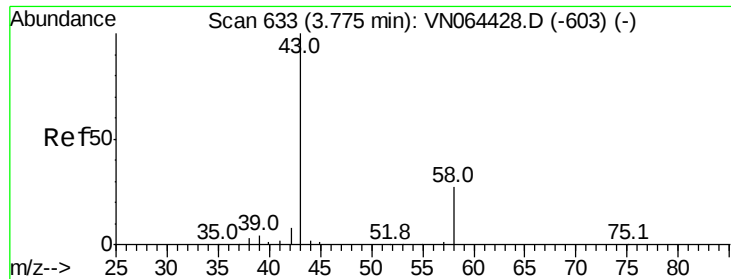
2000

1000

0

Time--> 3.65 3.70 3.75





#16

Acetone

Concen: 3.426 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

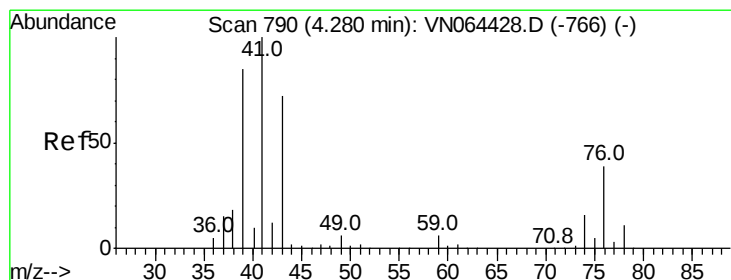
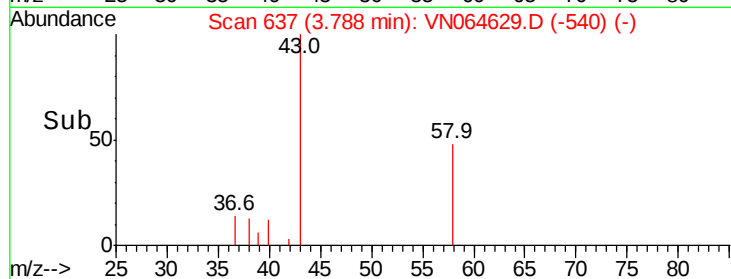
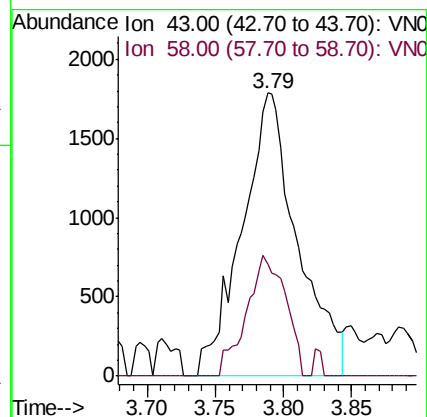
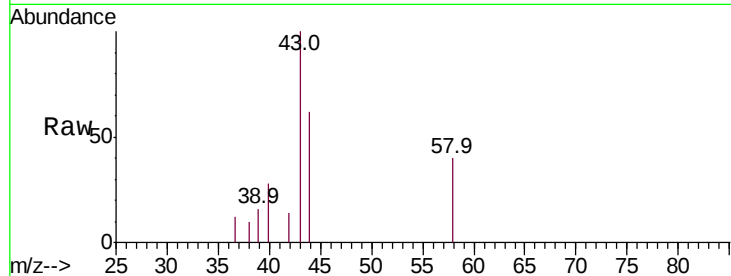
BP-VPB178-GW-558-560

Tot Ion: 43 Resp: 5058

Ion Ratio Lower Upper

43 100

58 39.6 21.4 32.0#



#18

Methyl Acetate

Concen: 0.507 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064629.D

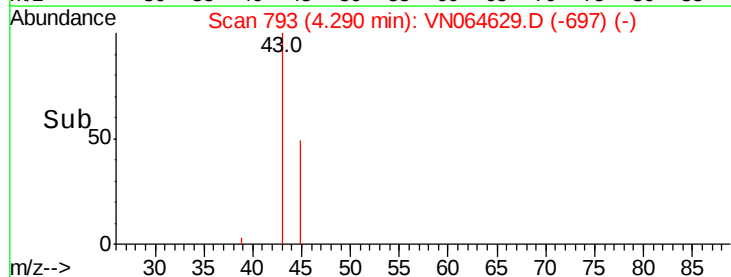
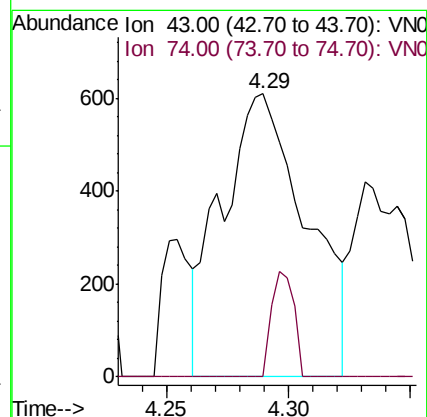
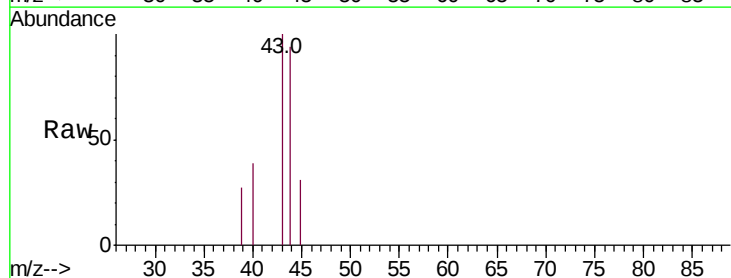
Acq: 13 Nov 2020 14:12

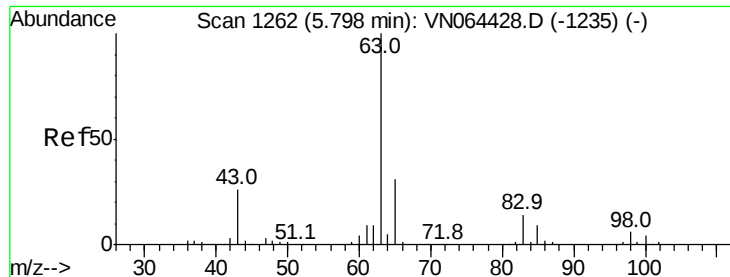
Tgt Ion: 43 Resp: 1472

Ion Ratio Lower Upper

43 100

74 9.9 17.0 25.4#

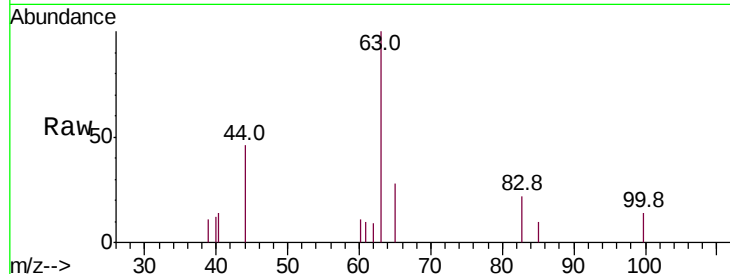




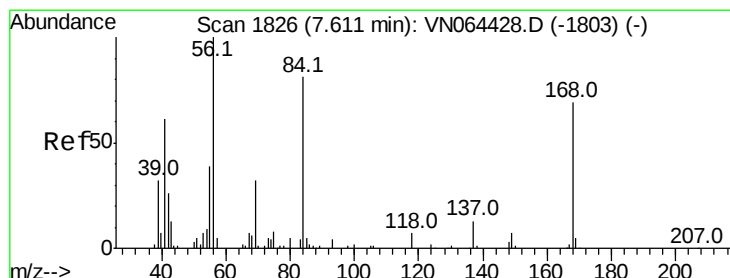
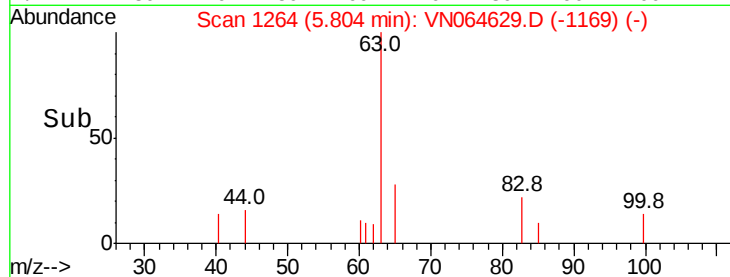
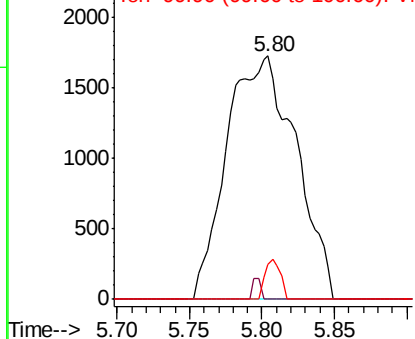
#24
 1,1-Dichloroethane
 Concen: 1.056 ug/l
 RT: 5.80 min Scan# 1264
 Delta R.T. 0.01 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-558-560

Tot Ion: 63 Resp: 5734
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.0 9.2#
 100 14.3 1.8 5.3#

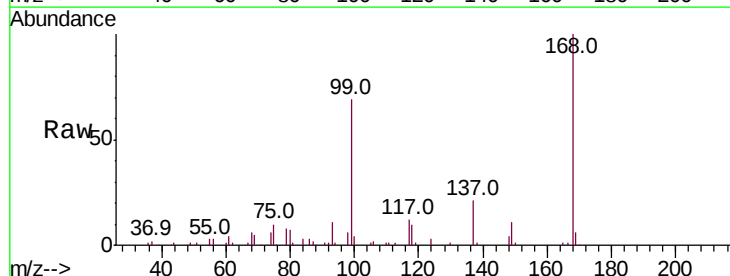


Abundance Ion 62.90 (62.60 to 63.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0
 Ion 99.90 (99.60 to 100.60): VN0

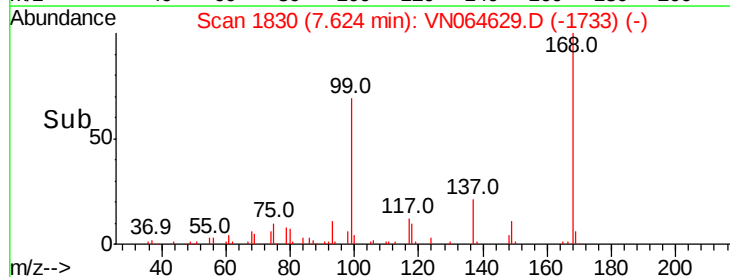
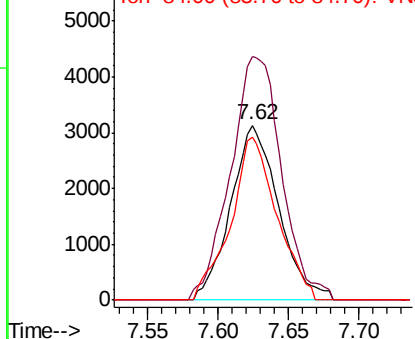


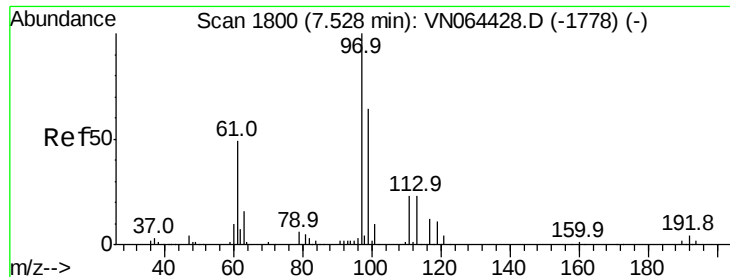
#31
 Cyclohexane
 Concen: 1.580 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. 0.01 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Tgt Ion: 56 Resp: 7441
 Ion Ratio Lower Upper
 56 100
 69 139.3 25.6 38.4#
 84 93.5 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





#32

1,1,1-Trichloroethane

Concen: 0.634 ug/l

RT: 7.53 min Scan# 1801

Delta R.T. 0.00 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-558-560

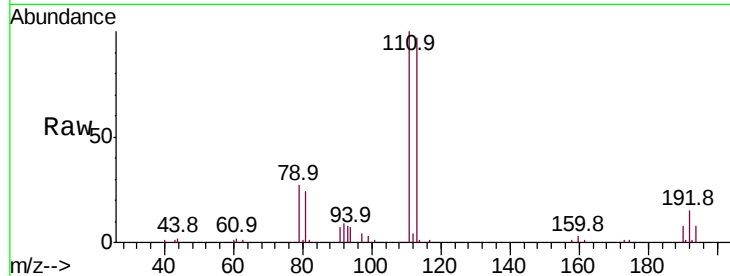
Tot Ion: 97 Resp: 3210

Ion Ratio Lower Upper

97 100

99 0.0 51.3 76.9#

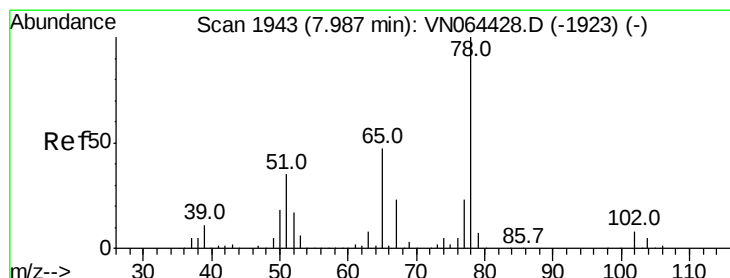
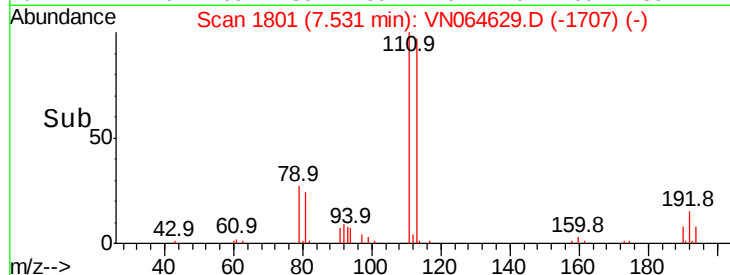
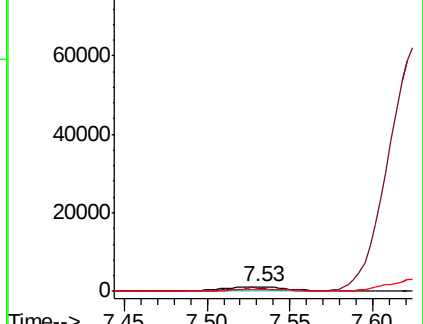
61 43.2 39.1 58.7



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 58.559 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064629.D

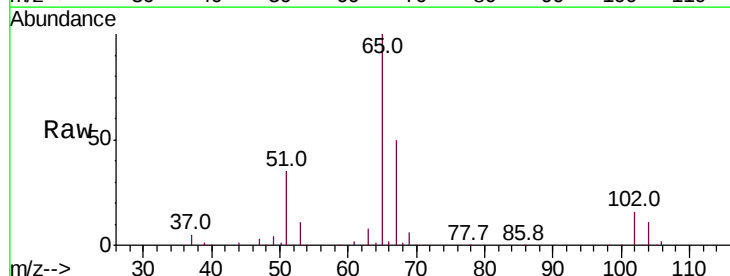
Acq: 13 Nov 2020 14:12

Tgt Ion: 65 Resp: 226937

Ion Ratio Lower Upper

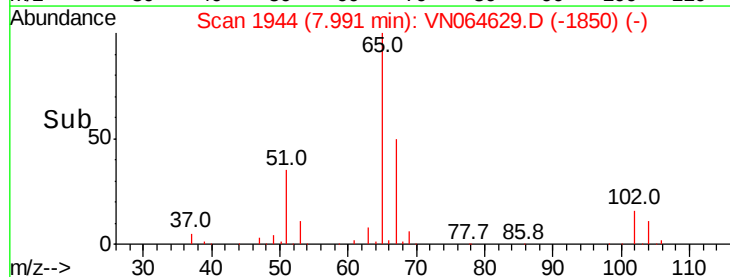
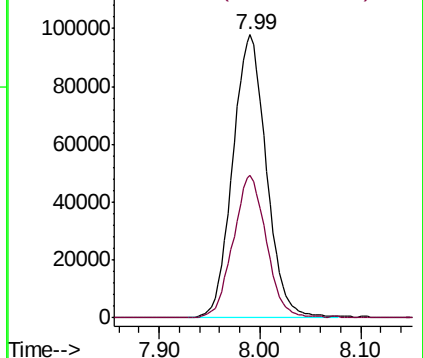
65 100

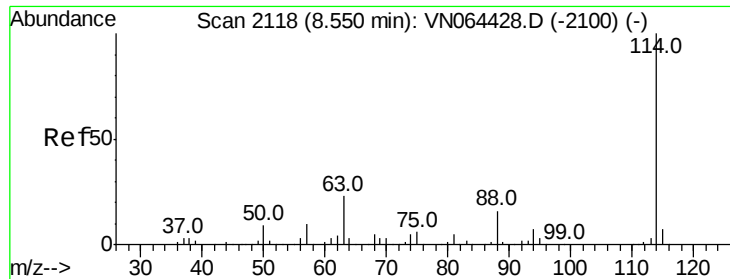
67 49.5 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

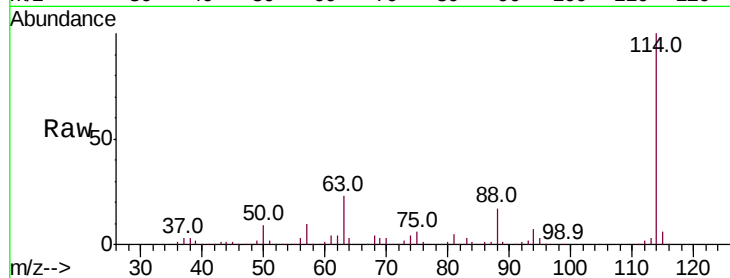




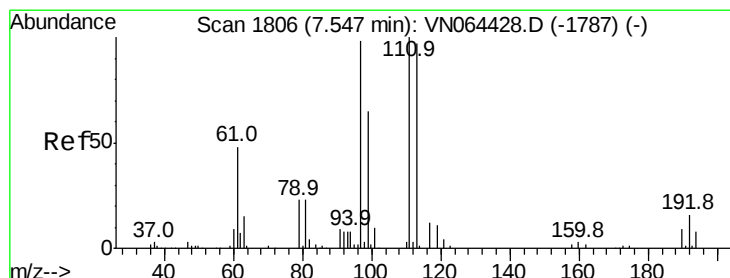
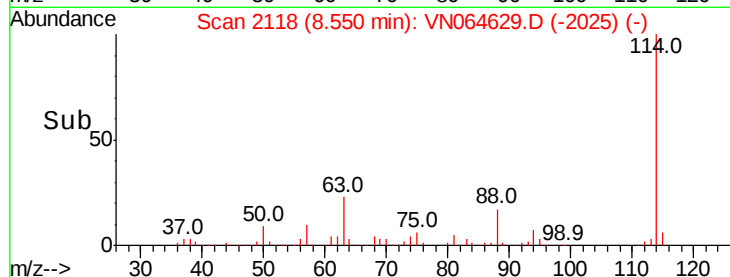
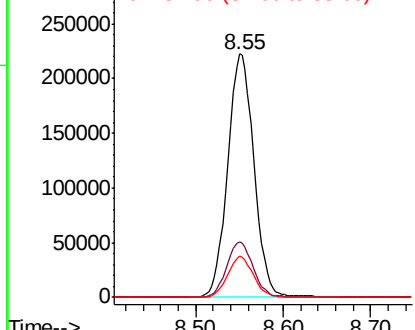
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-558-560

Tot Ion	Ratio	Lower	Upper
114	100		
63	23.0	0.0	45.6
88	16.8	0.0	32.8

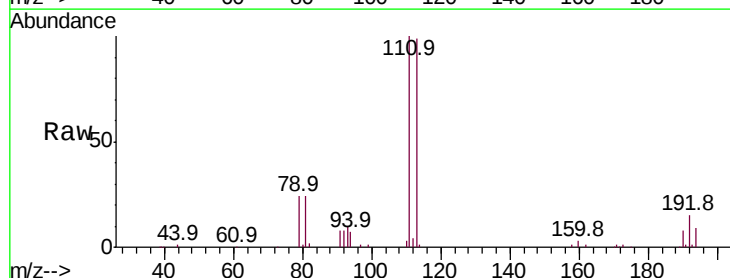


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VNO
 Ion 87.90 (87.60 to 88.60): VNO

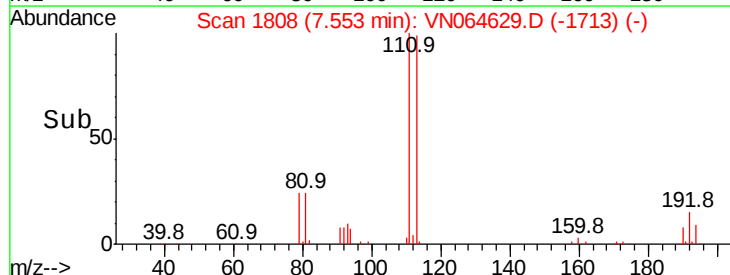
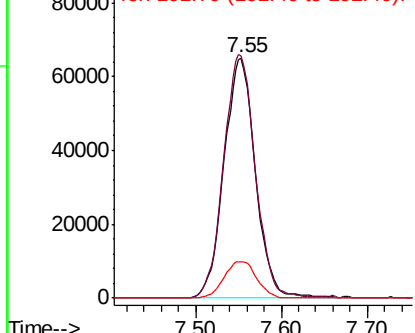


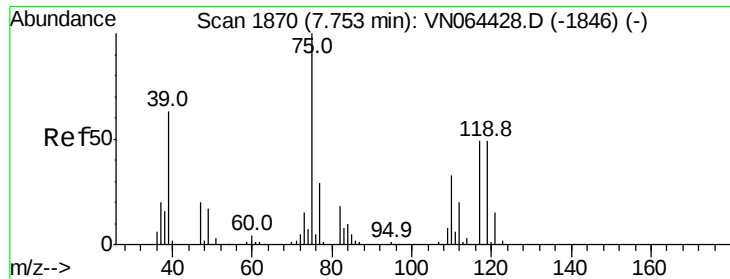
#35
 Dibromofluoromethane
 Concen: 52.136 ug/l
 RT: 7.55 min Scan# 1808
 Delta R.T. 0.01 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.1	121.7
192	15.8	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

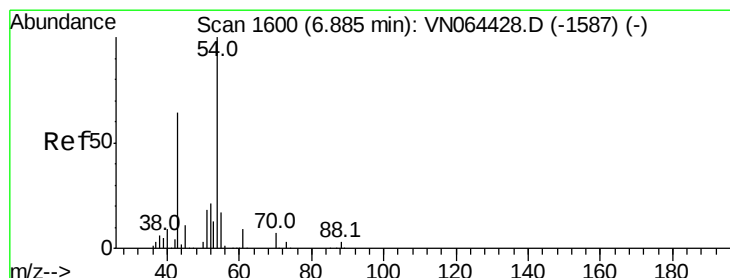
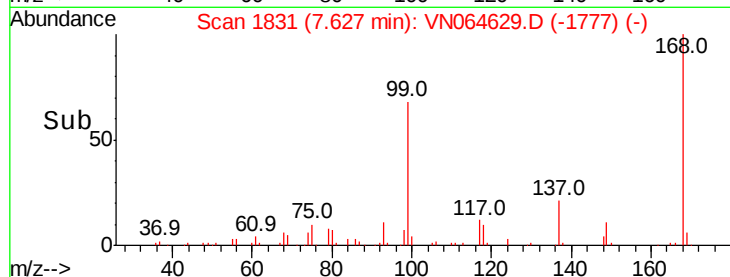
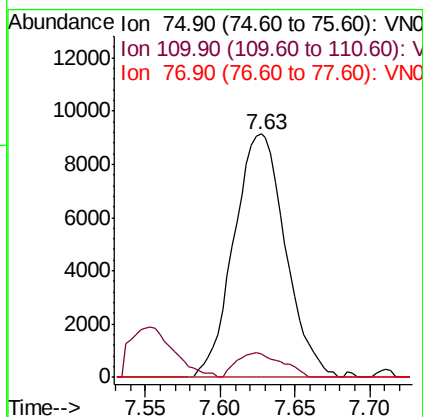
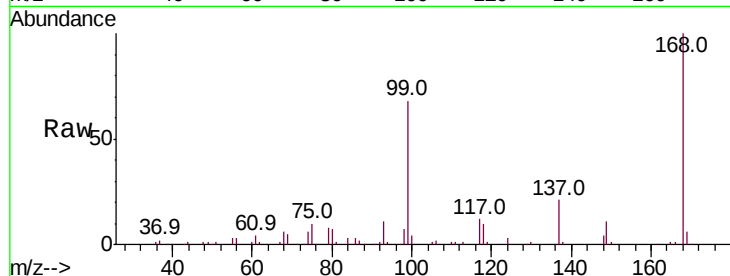




#36
 1,1-Dichloropropene
 Concen: 4.458 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

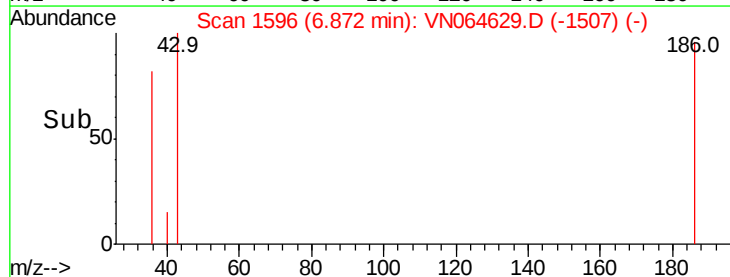
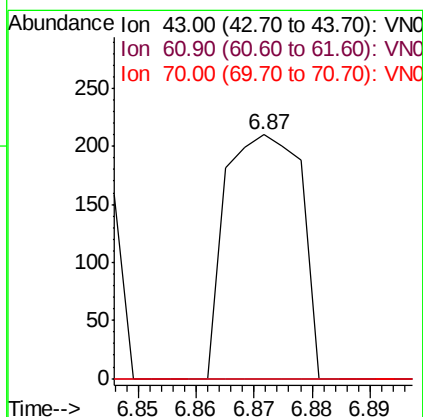
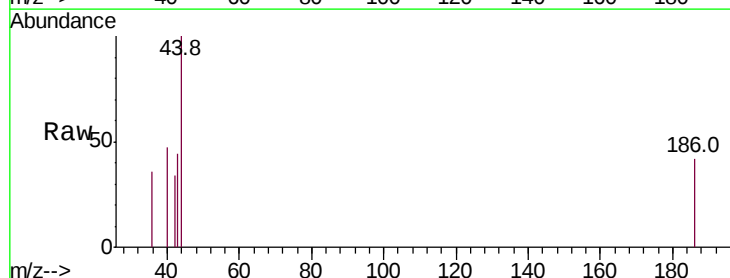
Instrument :
 MSVOA_N
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 BP-VPB178-GW-558-560

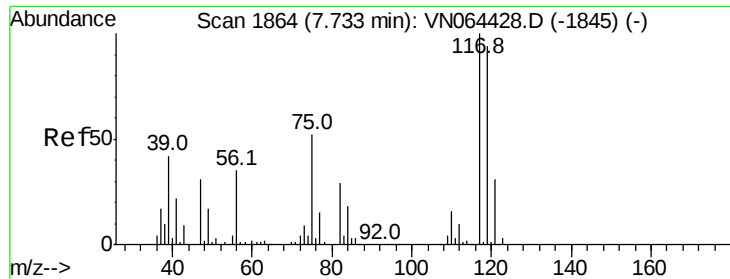
Tot Ion: 75 Resp: 21900
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.0 48.0#
 77 0.0 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.800 ug/l
 RT: 6.87 min Scan# 1596
 Delta R.T. -0.01 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Tgt Ion: 43 Resp: 189
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#

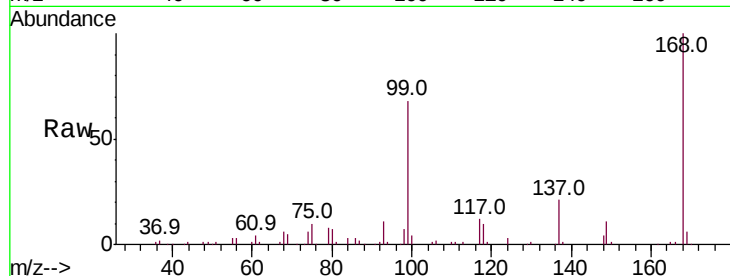




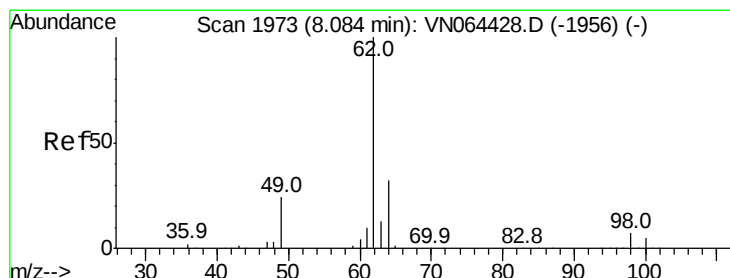
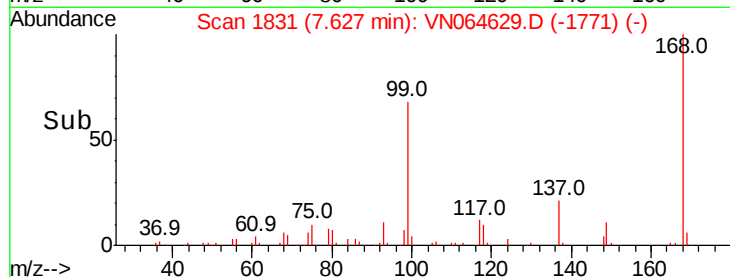
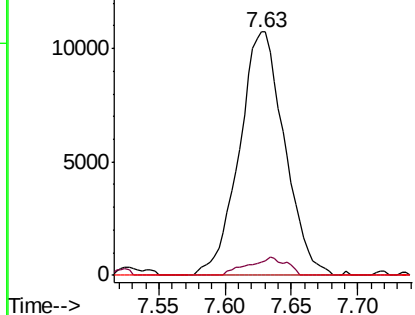
#38
 Carbon Tetrachloride
 Concen: 4.846 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Instrument :
 MSVOA_N
 ClientSampleId :
 BP-VPB178-GW-558-560

Tot Ion:117 Resp: 25441
 Ion Ratio Lower Upper
 117 100
 119 5.6 75.5 113.3#
 121 0.0 24.4 36.6#

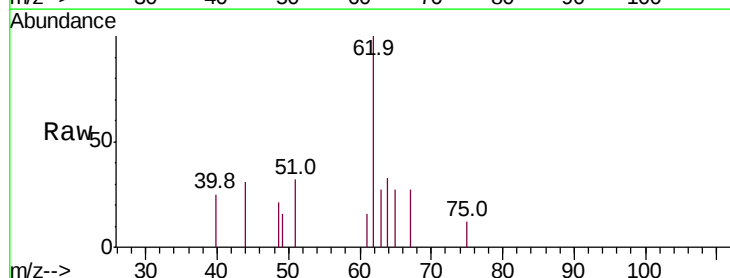


Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 118.80 (118.50 to 119.50): V
 Ion 120.80 (120.50 to 121.50): V

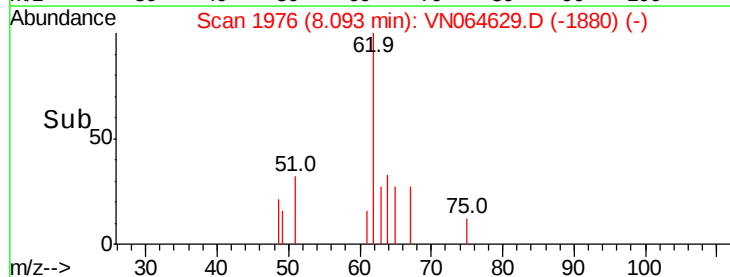
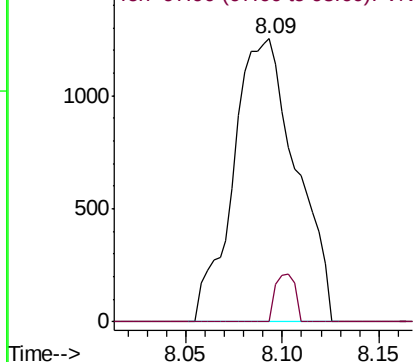


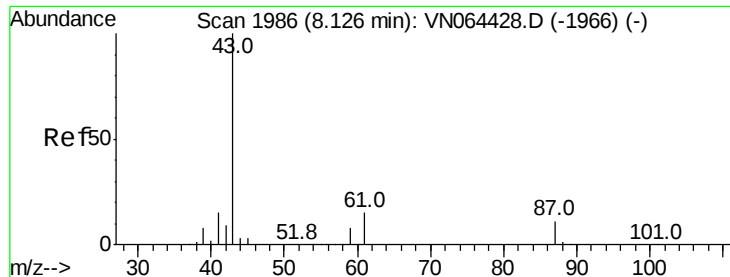
#42
 1,2-Dichloroethane
 Concen: 0.485 ug/l
 RT: 8.09 min Scan# 1976
 Delta R.T. 0.01 min
 Lab File: VN064629.D
 Acq: 13 Nov 2020 14:12

Tgt Ion: 62 Resp: 2824
 Ion Ratio Lower Upper
 62 100
 98 5.2 0.0 14.0



Abundance Ion 61.90 (61.60 to 62.60): V
 Ion 97.90 (97.60 to 98.60): V





#43

Isopropyl Acetate

Concen: 0.724 ug/l

RT: 8.21 min Scan# 2013

Delta R.T. 0.09 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-558-560

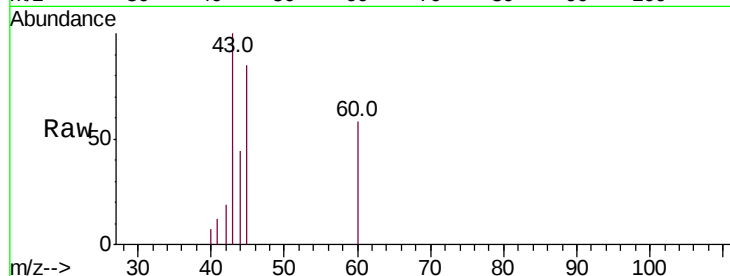
Tot Ion: 43 Resp: 5765

Ion Ratio Lower Upper

43 100

61 0.0 14.0 21.0#

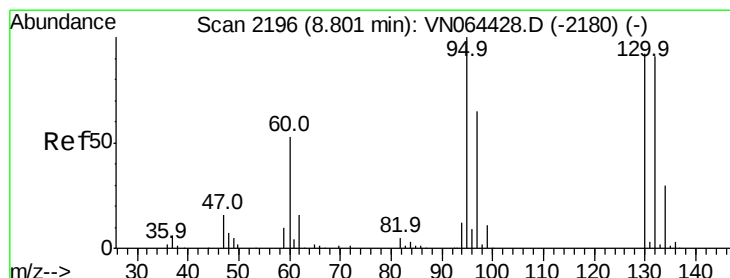
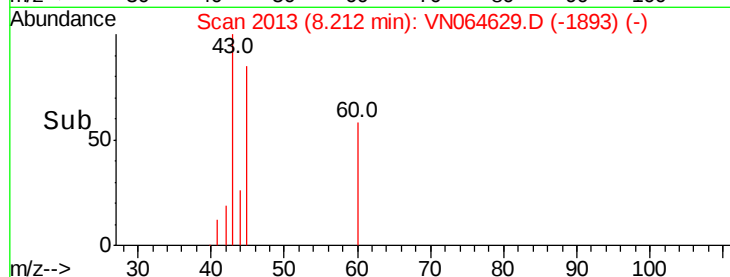
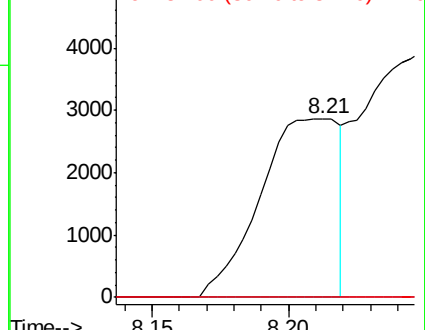
87 0.0 9.1 13.7#



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: 0.397 ug/l

RT: 8.80 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN064629.D

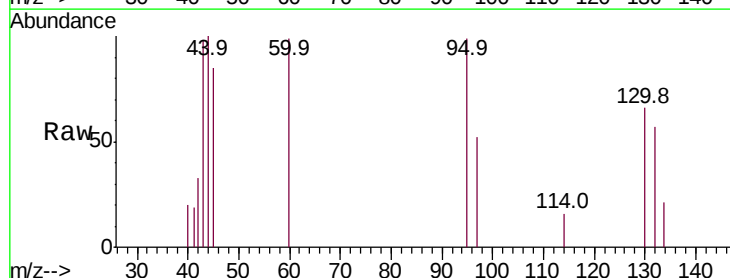
Acq: 13 Nov 2020 14:12

Tgt Ion:130 Resp: 1445

Ion Ratio Lower Upper

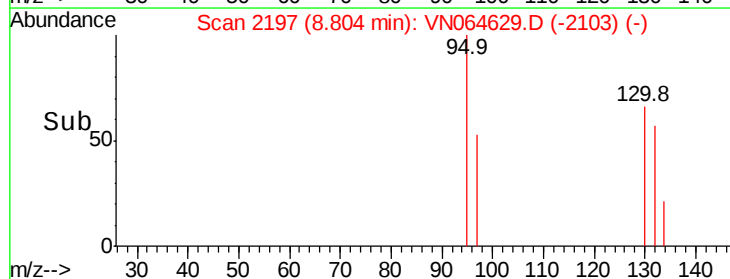
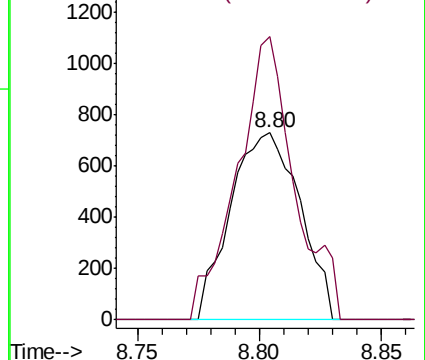
130 100

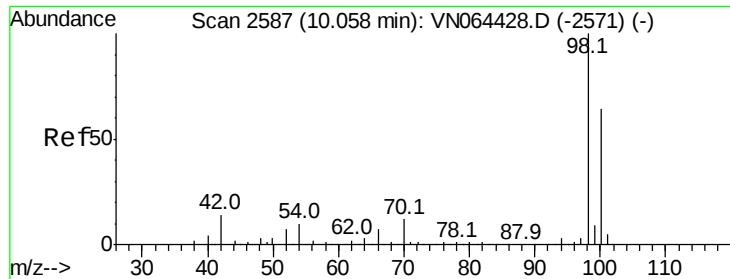
95 151.4 0.0 216.8



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

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





#50

Toluene-d8

Concen: 48.215 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

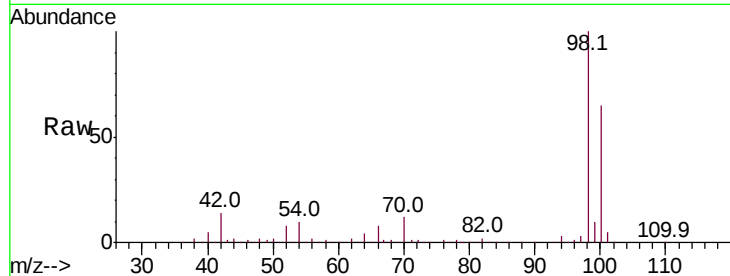
BP-VPB178-GW-558-560

Tot Ion: 98 Resp: 590007

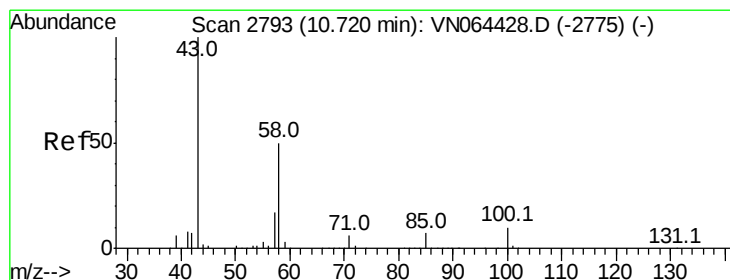
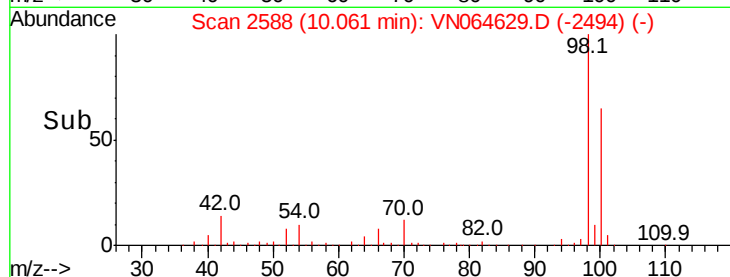
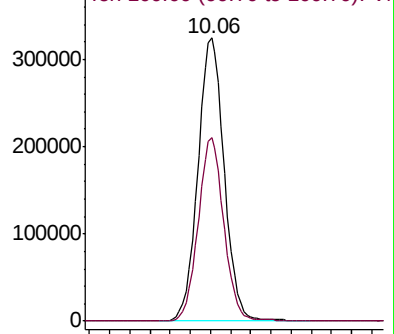
Ion Ratio Lower Upper

98 100

100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN064428.D (-2571) (-)



#59

2-Hexanone

Concen: 4.063 ug/l

RT: 10.71 min Scan# 2791

Delta R.T. -0.01 min

Lab File: VN064629.D

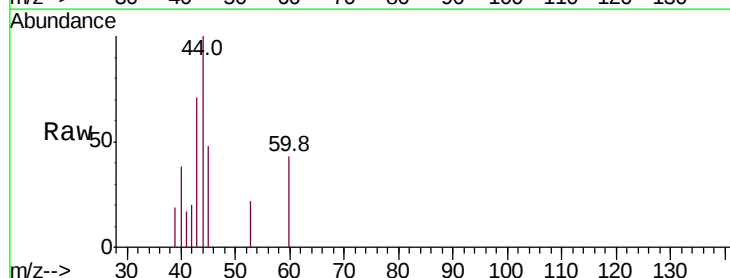
Acq: 13 Nov 2020 14:12

Tgt Ion: 43 Resp: 136

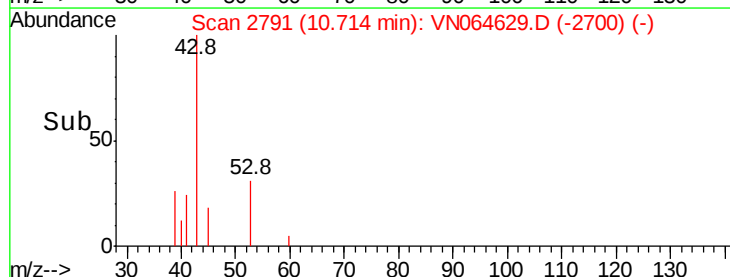
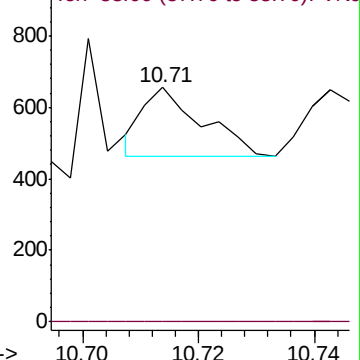
Ion Ratio Lower Upper

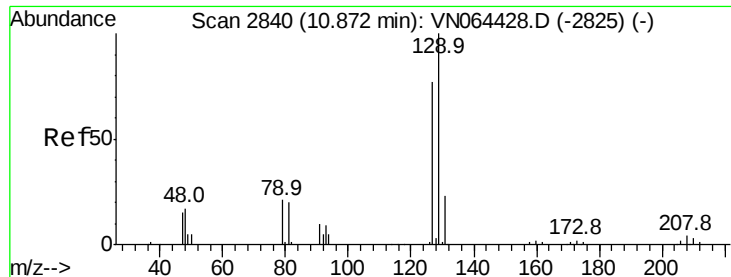
43 100

58 0.0 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-2775) (-)





#60

Dibromochloromethane

Concen: 0.203 ug/l

RT: 10.60 min Scan# 2755

Delta R.T. -0.27 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

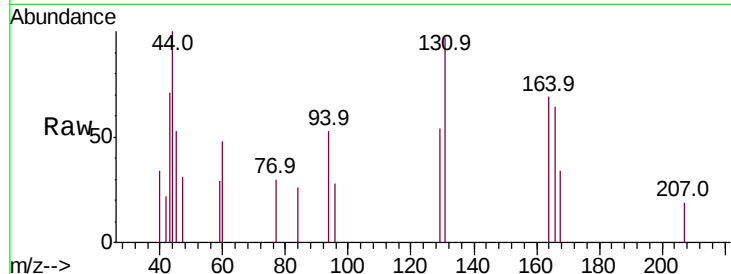
BP-VPB178-GW-558-560

Tot Ion:129 Resp: 779

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

10.60

400

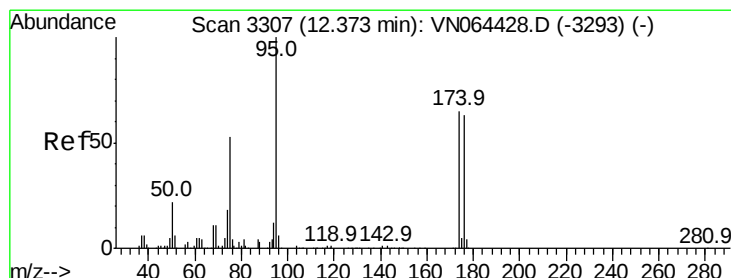
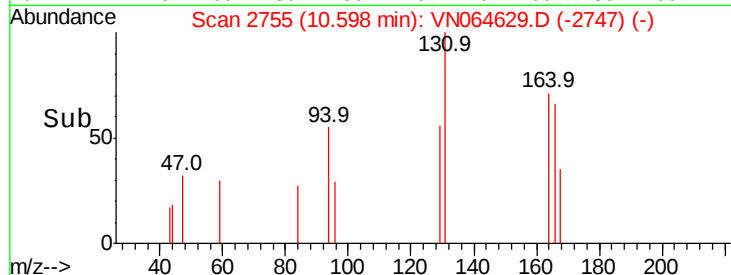
300

200

100

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.108 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

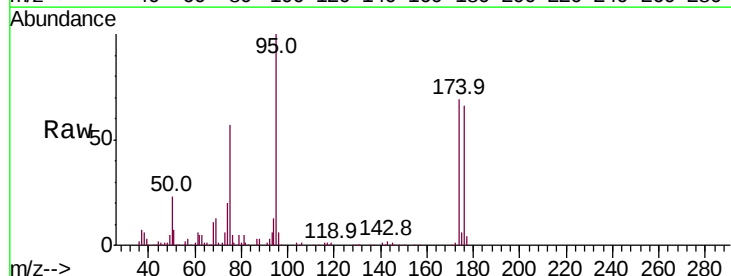
Tgt Ion: 95 Resp: 213380

Ion Ratio Lower Upper

95 100

174 71.2 0.0 132.6

176 66.6 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

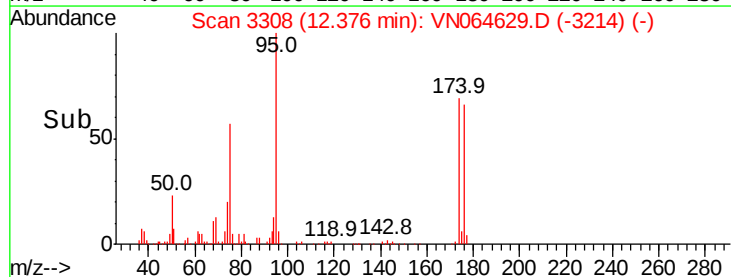
150000

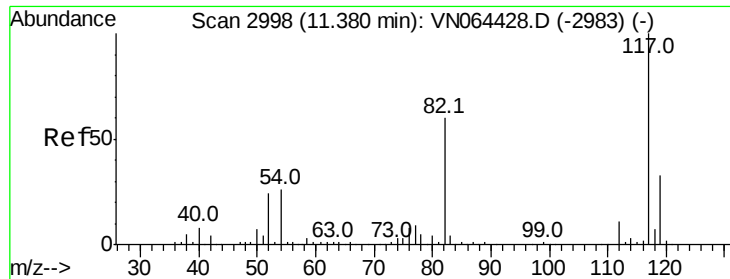
100000

50000

0

Time-->

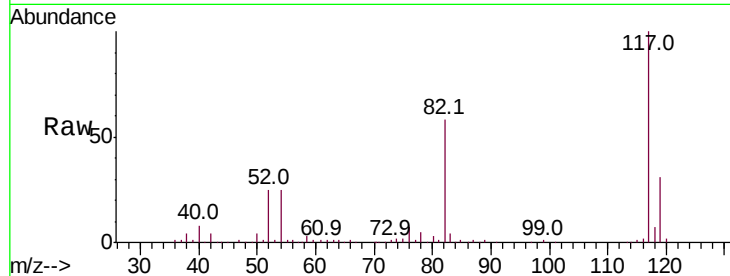




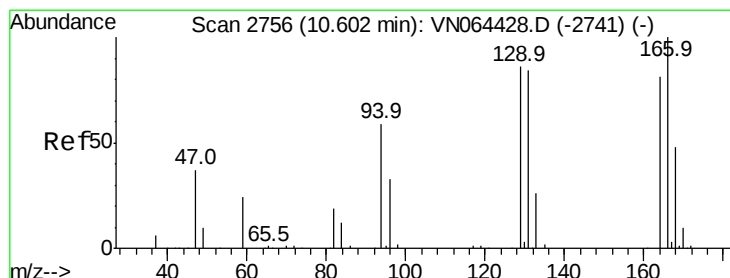
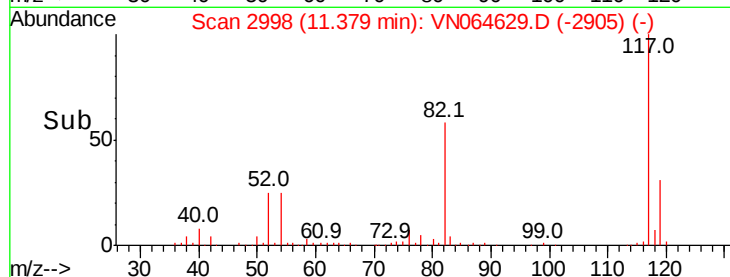
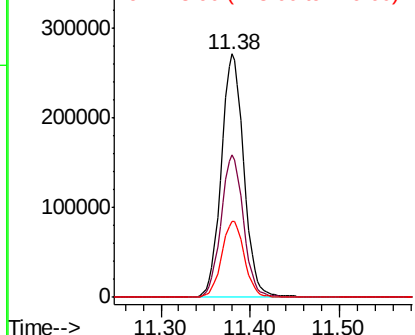
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064629.D
Acq: 13 Nov 2020 14:12

Instrument :
MSVOA_N
ClientSampleId :
BP-VPB178-GW-558-560

Tot Ion:117 Resp: 475236
Ion Ratio Lower Upper
117 100
82 58.5 48.1 72.1
119 31.3 26.2 39.4

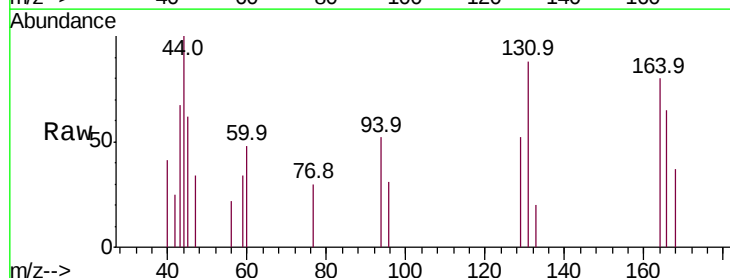


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

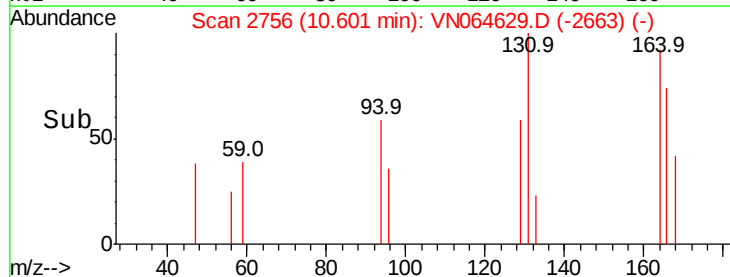
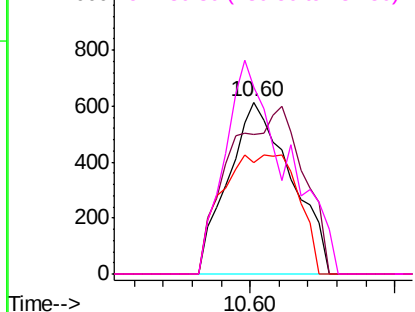


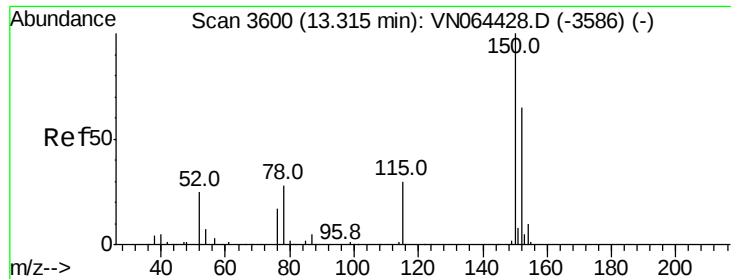
#64
Tetrachloroethene
Concen: 0.252 ug/l
RT: 10.60 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VN064629.D
Acq: 13 Nov 2020 14:12

Tgt Ion:164 Resp: 923
Ion Ratio Lower Upper
164 100
166 81.1 98.2 147.2#
129 64.6 84.6 127.0#
131 109.1 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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-558-560

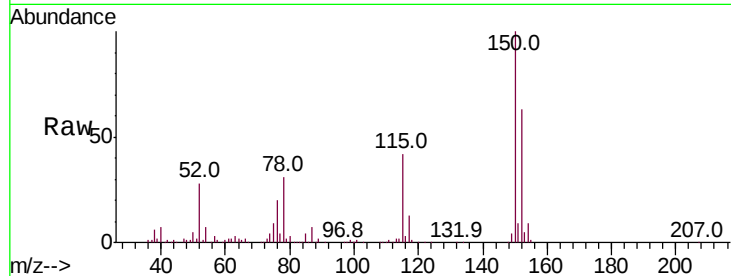
Tot Ion:152 Resp: 170443

Ion Ratio Lower Upper

152 100

115 65.3 32.0 96.0

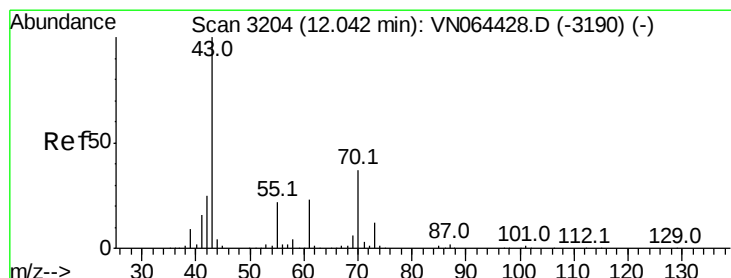
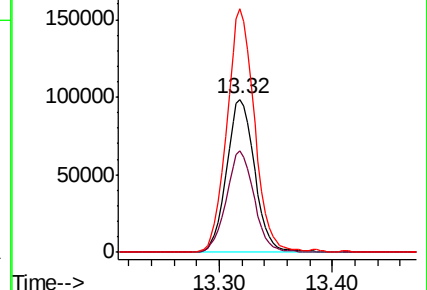
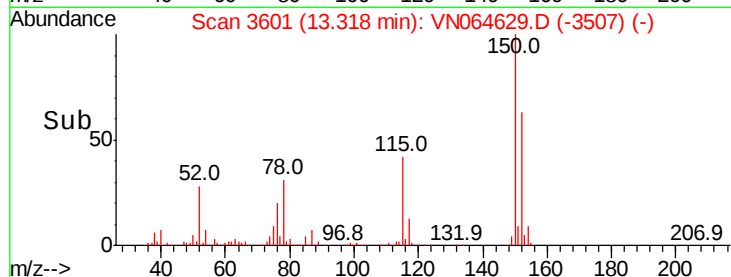
150 156.0 0.0 353.8



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-ethyl acetate

Concen: 1.249 ug/l

RT: 12.05 min Scan# 3208

Delta R.T. 0.01 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Tgt Ion: 43 Resp: 236

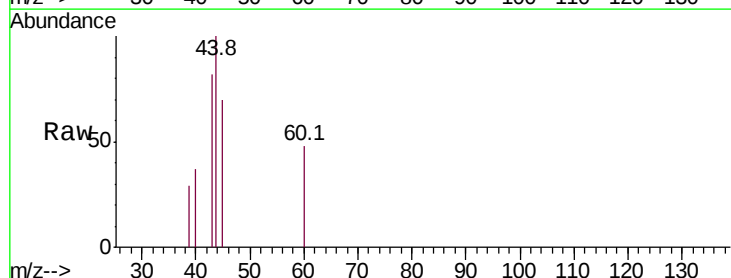
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 0.0 18.4 27.6#

61 0.0 17.8 26.6#

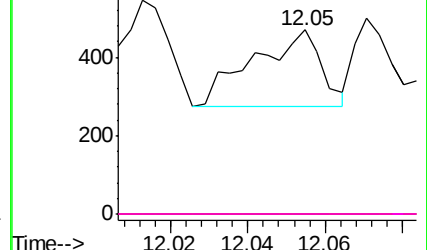
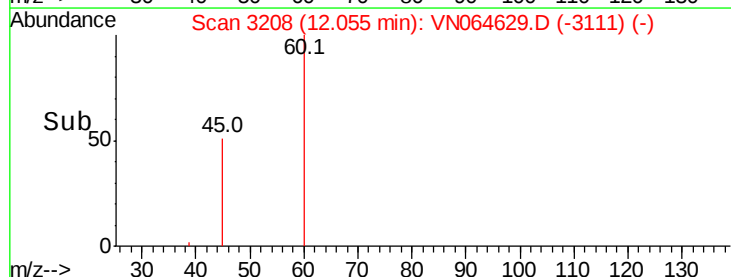


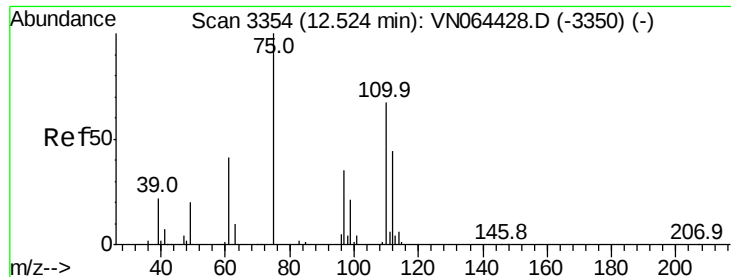
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 29.486 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

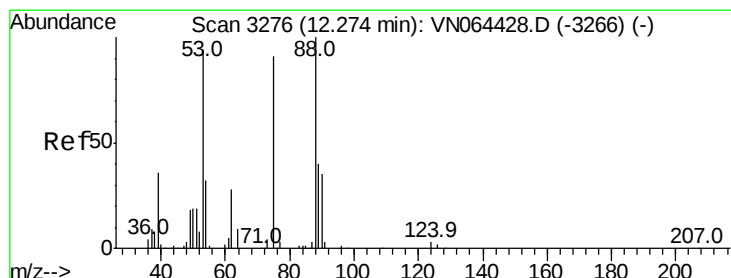
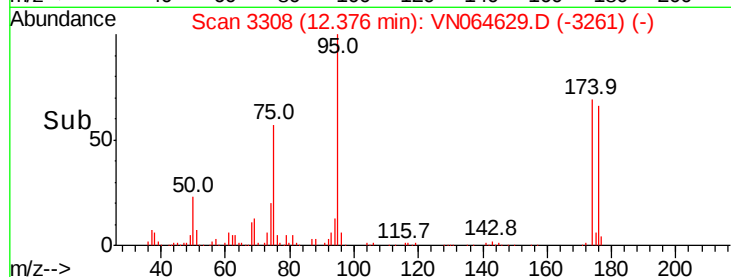
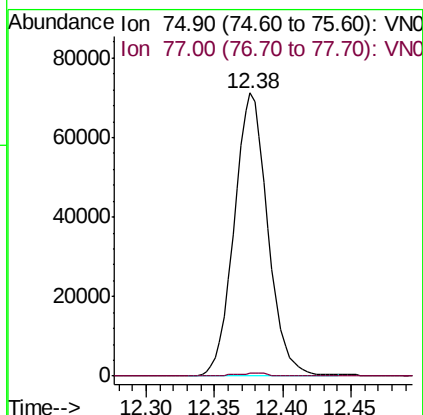
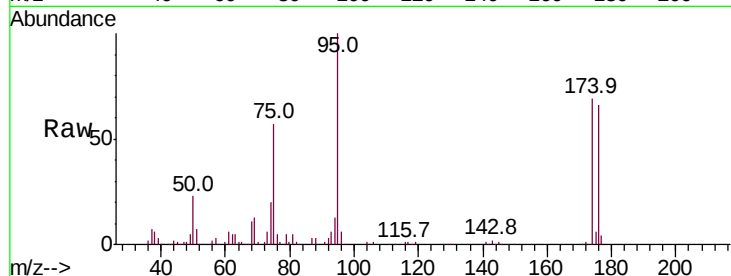
BP-VPB178-GW-558-560

Tot Ion: 75 Resp: 121767

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 82.328 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064629.D

Acq: 13 Nov 2020 14:12

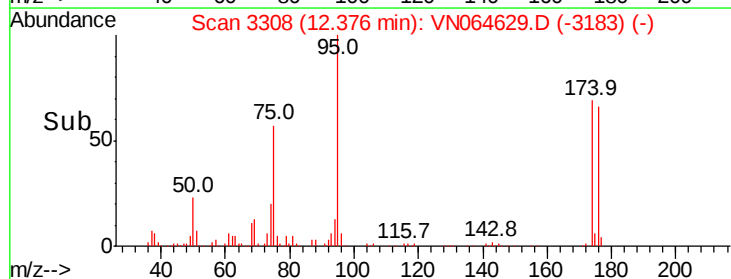
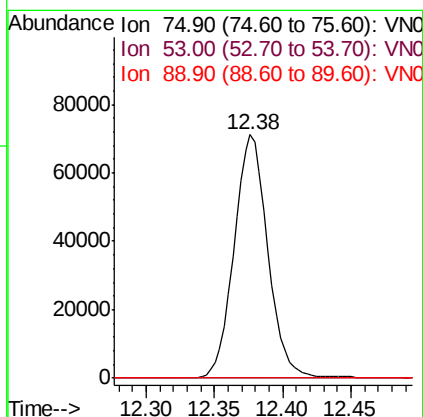
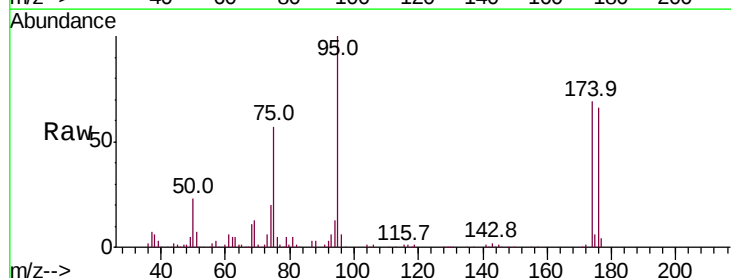
Tgt Ion: 75 Resp: 121767

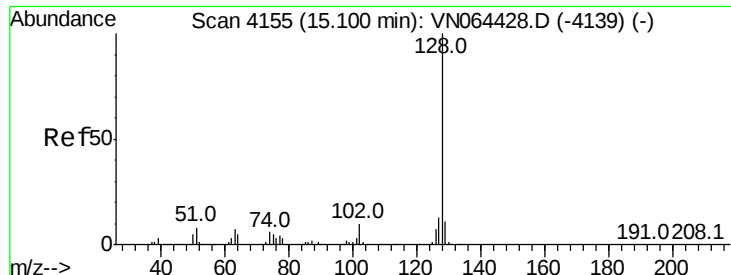
Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#





#95

Naphthalene

Concen: 3.626 ug/l

RT: 15.11 min Scan# 4159

Delta R.T. 0.01 min

Lab File: VN064629.D

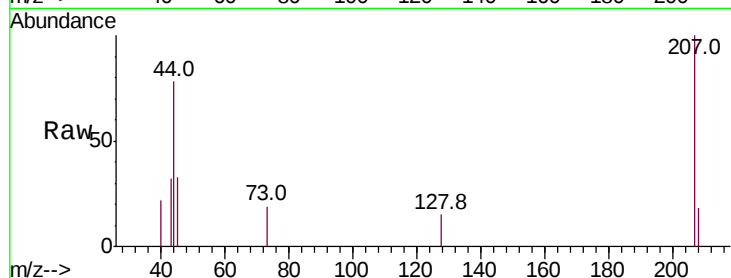
Acq: 13 Nov 2020 14:12

Instrument :

MSVOA_N

ClientSampleId :

BP-VPB178-GW-558-560



Tot Ion:	128	Resp:	32
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.8	13.2#

