

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061720\
 Data File : VN061879.D
 Acq On : 18 Jun 2020 4:17
 Operator : JC/MD
 Sample : L3011-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20200612

Quant Time: Jun 18 07:09:41 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	136742	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	250362	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	243245	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	93130	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	91485	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
35) Dibromofluoromethane	7.55	113	81587	50.94	ug/l	0.00
Spiked Amount			Recovery	=	101.88%	
50) Toluene-d8	10.06	98	314713	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
62) 4-Bromofluorobenzene	12.38	95	103947	48.13	ug/l	0.00
Spiked Amount			Recovery	=	96.26%	

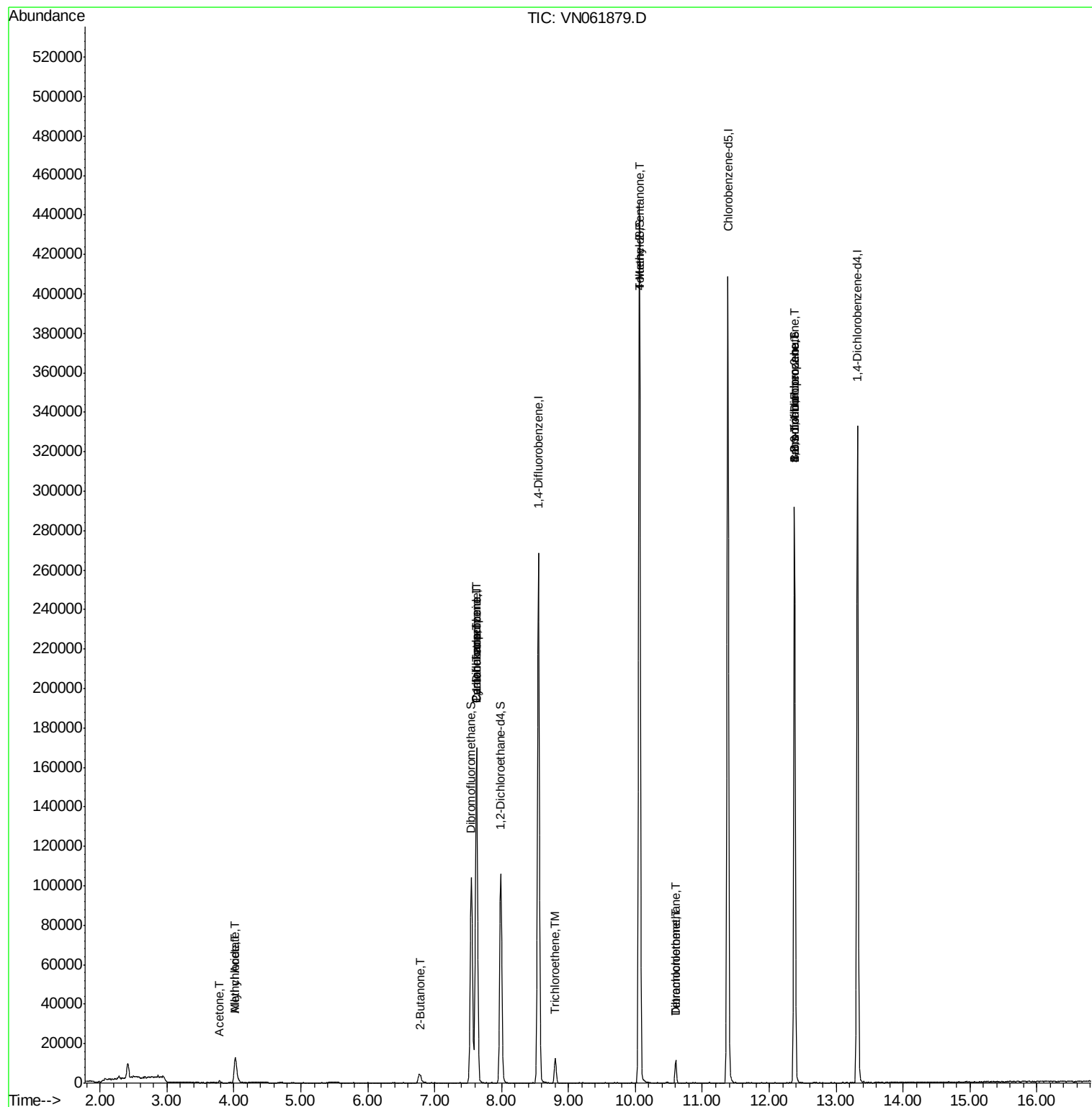
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
14) Allyl chloride	4.02	41	2327	1.262	ug/l #	58
16) Acetone	3.78	43	1159	2.140	ug/l	90
18) Methyl Acetate	4.02	43	5782	3.707	ug/l #	46
25) 2-Butanone	6.79	43	282	0.357	ug/l #	44
31) Cyclohexane	7.63	56	2870	1.188	ug/l #	26
36) 1,1-Dichloropropene	7.63	75	11089	4.856	ug/l #	47
38) Carbon Tetrachloride	7.63	117	13167	5.823	ug/l #	17
44) Trichloroethene	8.80	130	4946	2.717	ug/l	87
51) 4-Methyl-2-Pentanone	10.06	43	1142	0.643	ug/l #	1
60) Dibromochloromethane	10.60	129	2472	1.296	ug/l #	11
64) Tetrachloroethene	10.61	164	2652	1.711	ug/l	96
71) Bromoform	12.38	173	820	0.628	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	50589	27.669	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	50589	75.465	ug/l #	14

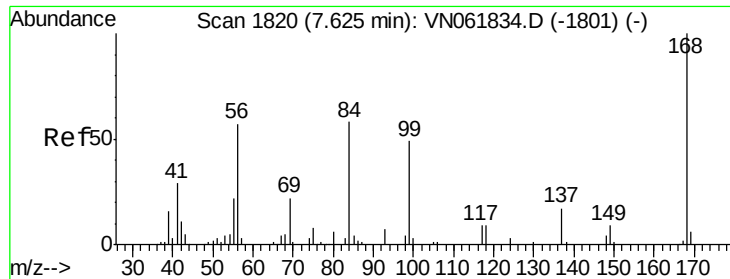
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

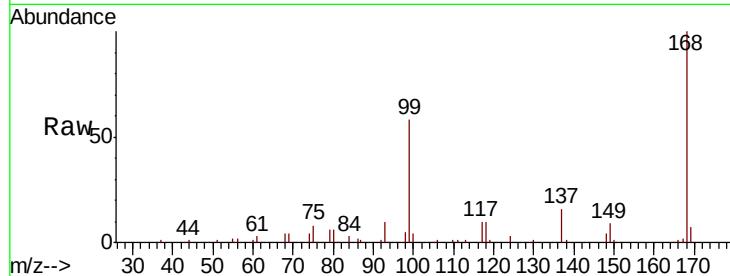
RE123D2-20200612

Tot Ion:168 Resp: 136742

Ion Ratio Lower Upper

168 100

99 57.9 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

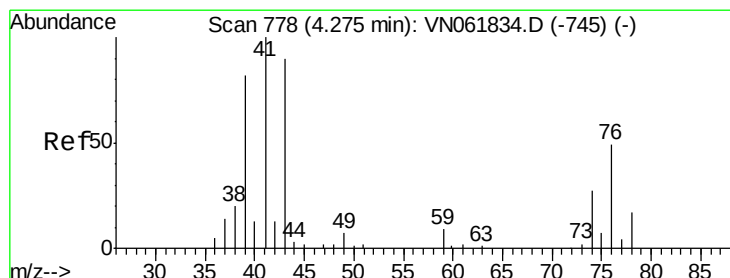
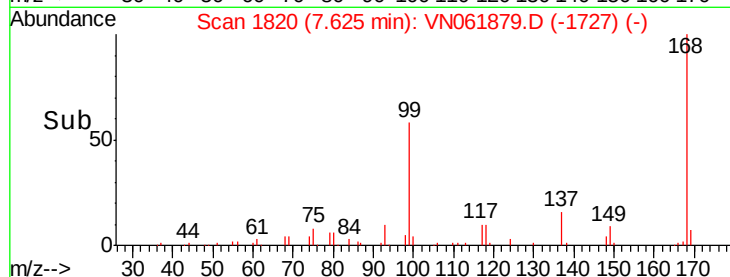
40000

20000

0

7.60 7.70

Time-->



#14

Allyl chloride

Concen: 1.262 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.25 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

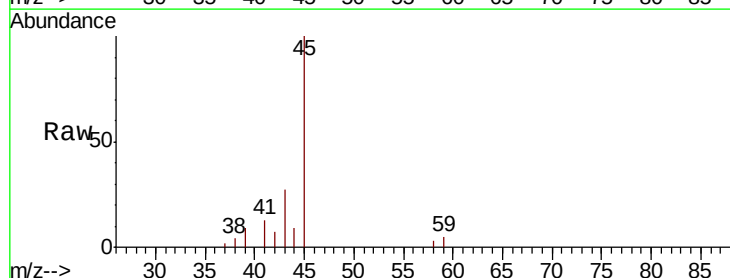
Tgt Ion: 41 Resp: 2327

Ion Ratio Lower Upper

41 100

39 53.2 60.2 90.2#

76 0.0 36.3 54.5#



Abundance Ion 41.00 (40.70 to 41.70): VN

Ion 39.00 (38.70 to 39.70): VN

Ion 75.90 (75.60 to 76.60): VN

4.02

1200

1000

800

600

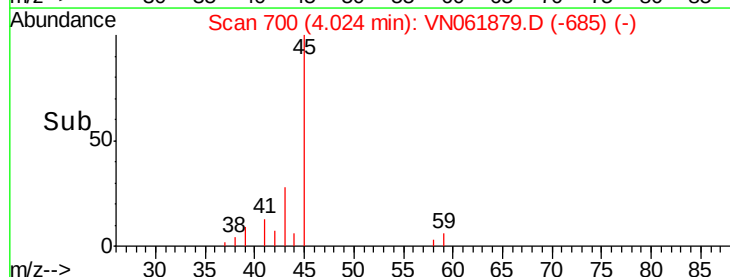
400

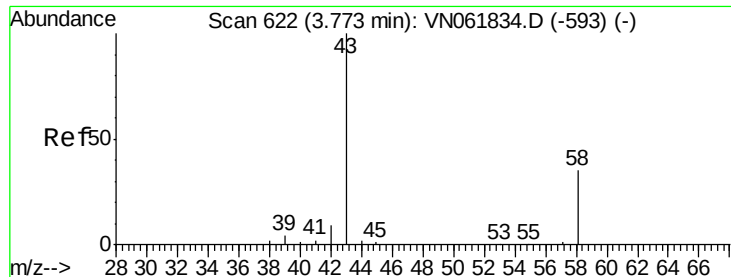
200

0

3.95 4.00 4.05 4.10

Time-->





#16

Acetone

Concen: 2.140 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

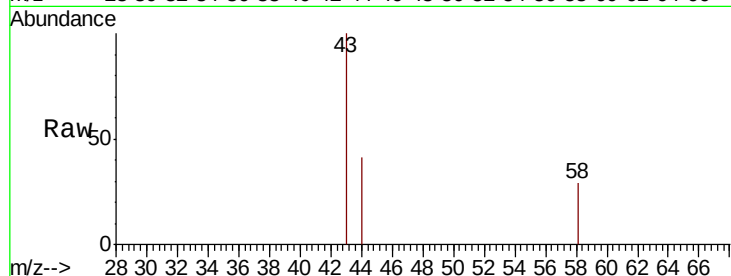
RE123D2-20200612

Tot Ion: 43 Resp: 1159

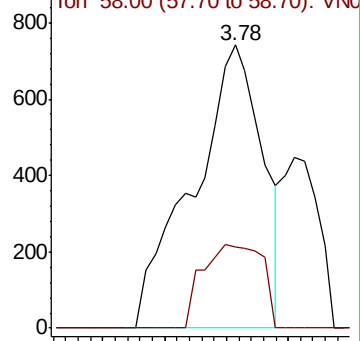
Ion Ratio Lower Upper

43 100

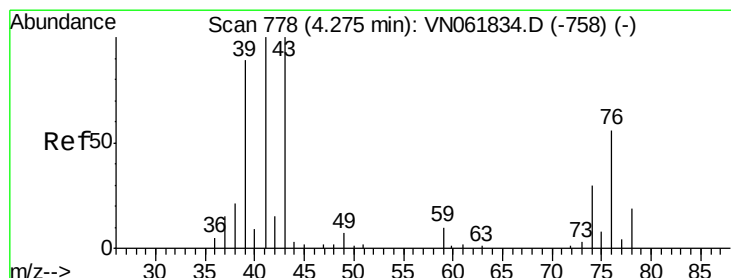
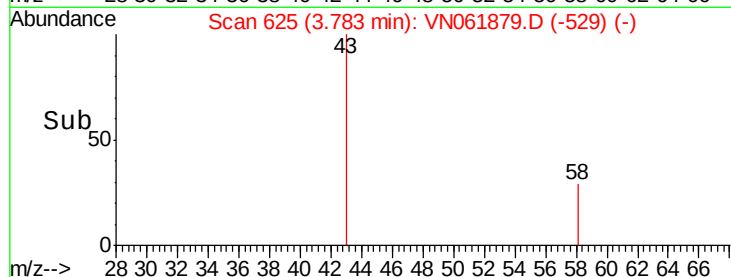
58 28.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061879.D (-529) (-)



Time-->



#18

Methyl Acetate

Concen: 3.707 ug/l

RT: 4.02 min Scan# 698

Delta R.T. -0.26 min

Lab File: VN061879.D

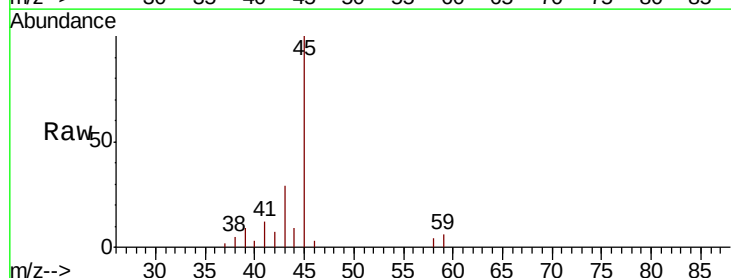
Acq: 18 Jun 2020 4:17

Tgt Ion: 43 Resp: 5782

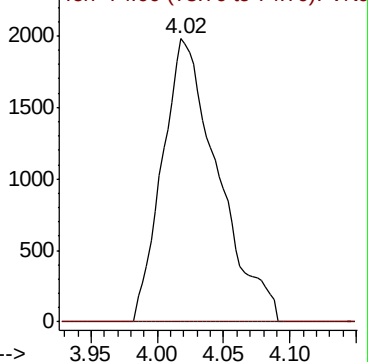
Ion Ratio Lower Upper

43 100

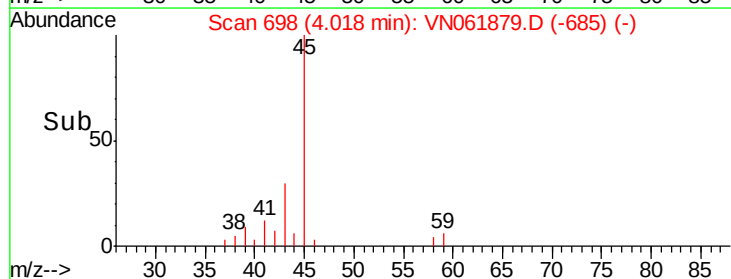
74 0.0 23.0 34.4#

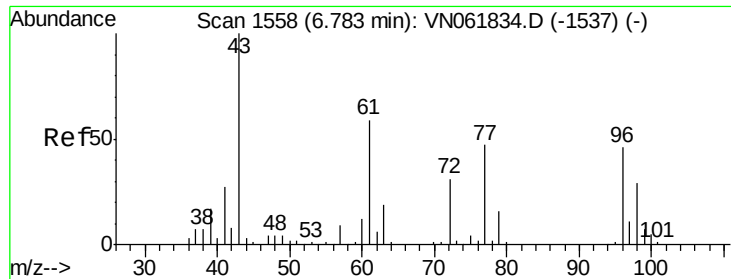


Abundance Ion 43.00 (42.70 to 43.70): VN061879.D (-685) (-)



Time-->

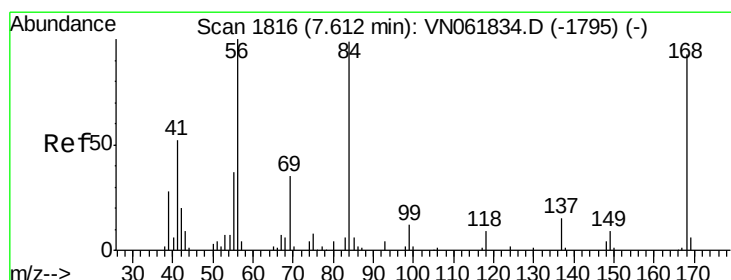
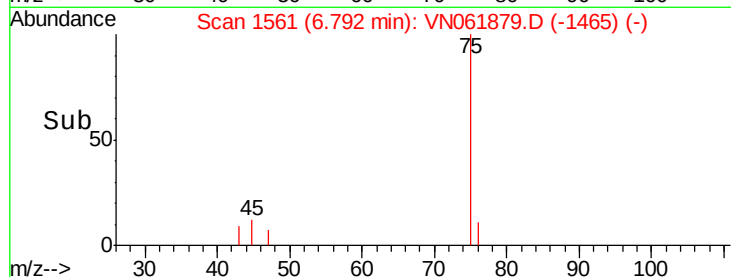
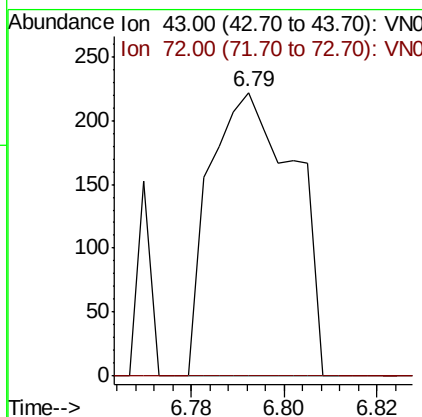
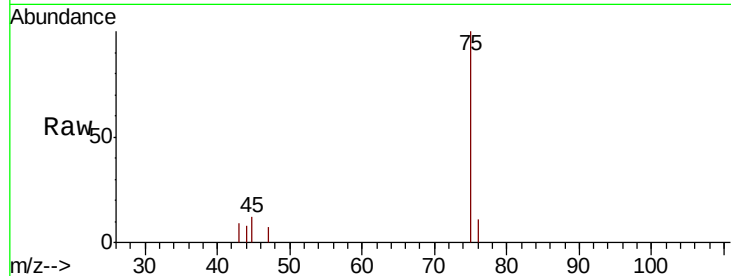




#25
2-Butanone
Concen: 0.357 ug/l
RT: 6.79 min Scan# 1561
Delta R.T. 0.01 min
Lab File: VN061879.D
Acq: 18 Jun 2020 4:17

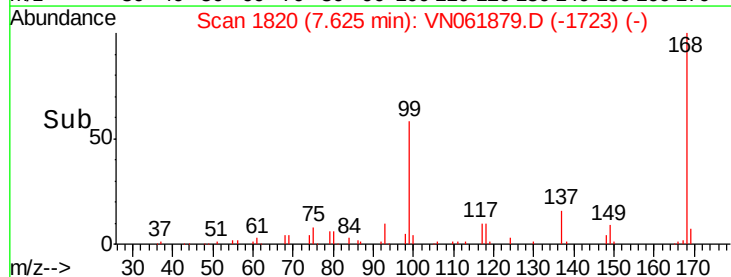
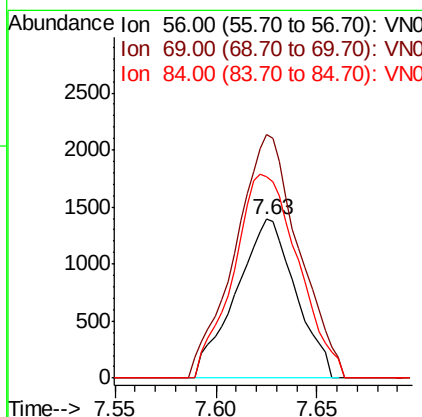
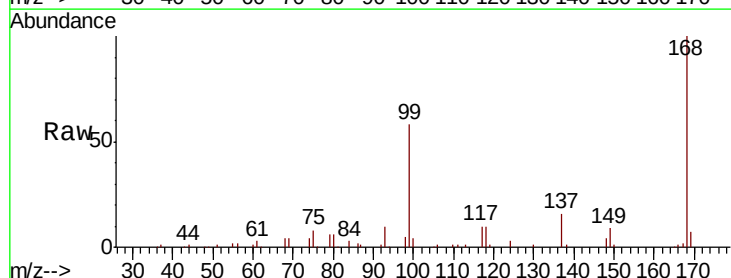
Instrument :
MSVOA_N
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RE123D2-20200612

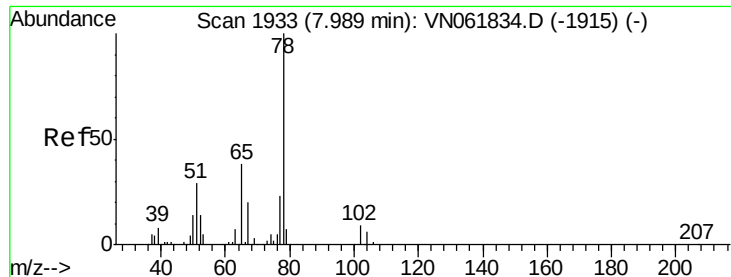
Tot Ion: 43 Resp: 282
Ion Ratio Lower Upper
43 100
72 0.0 24.6 37.0#



#31
Cyclohexane
Concen: 1.188 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061879.D
Acq: 18 Jun 2020 4:17

Tgt Ion: 56 Resp: 2870
Ion Ratio Lower Upper
56 100
69 153.4 27.7 41.5#
84 126.5 79.1 118.7#

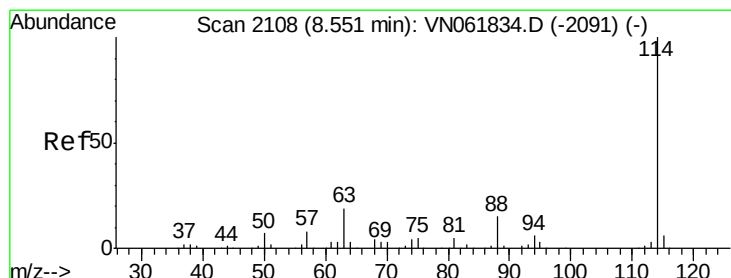
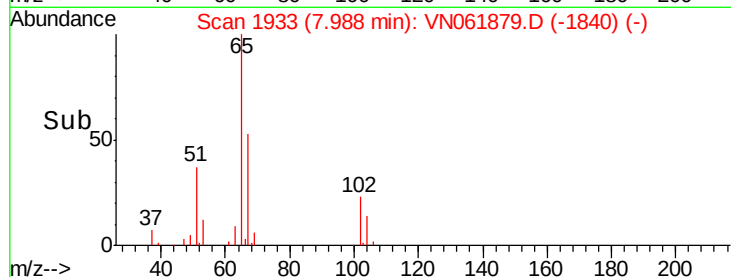
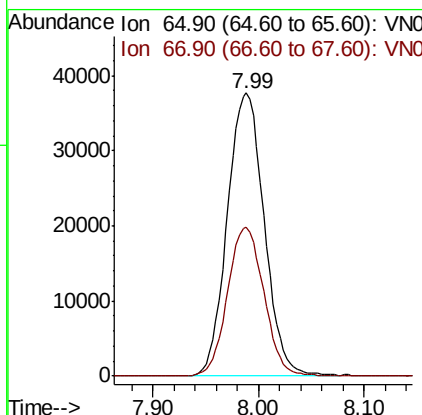
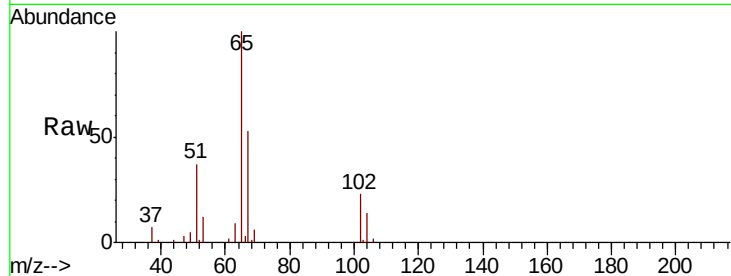




#33
 1,2-Dichloroethane-d4
 Concen: 49.885 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. -0.00 min
 Lab File: VN061879.D
 Acq: 18 Jun 2020 4:17

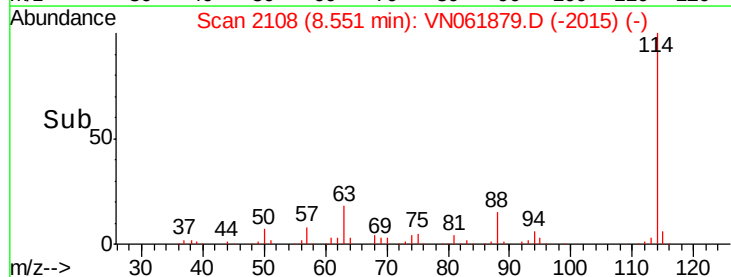
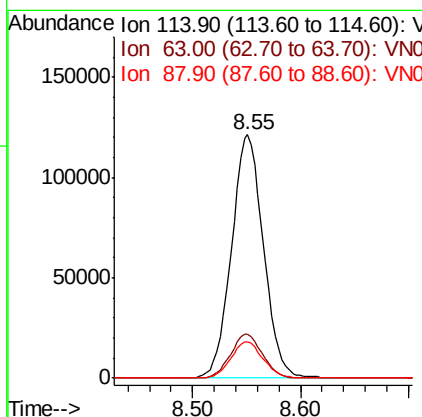
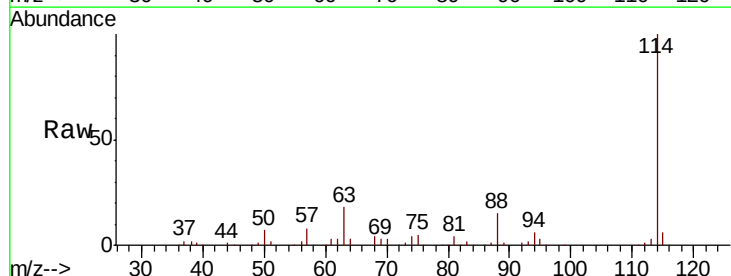
Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20200612

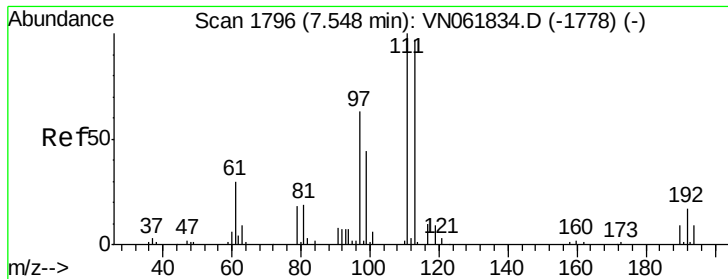
Tot Ion: 65 Resp: 91485
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061879.D
 Acq: 18 Jun 2020 4:17

Tgt Ion: 114 Resp: 250362
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 37.6
 88 15.0 0.0 31.0

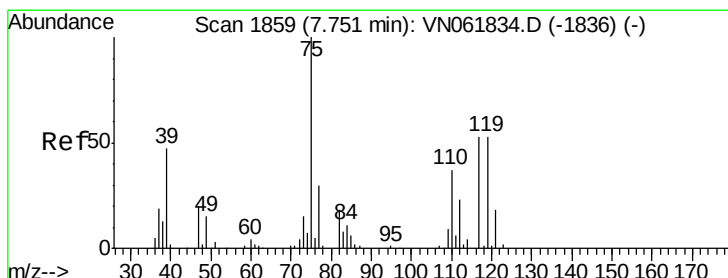
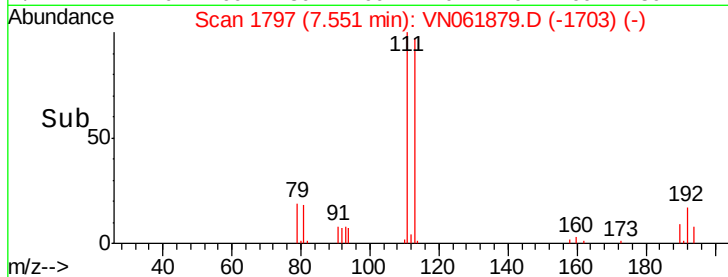
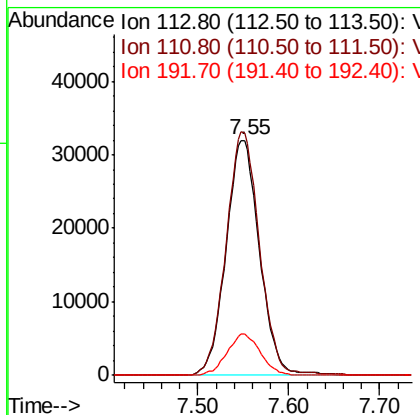
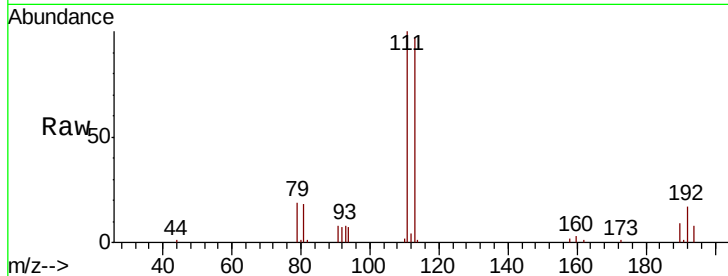




#35
 Dibromofluoromethane
 Concen: 50.938 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061879.D
 Acq: 18 Jun 2020 4:17

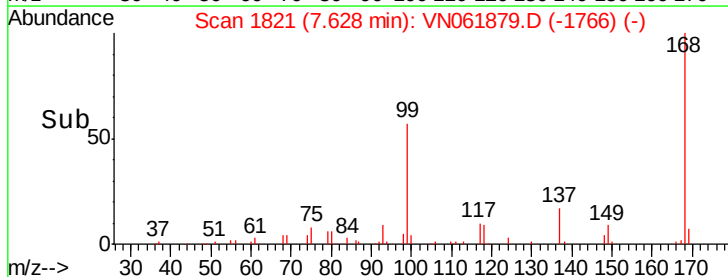
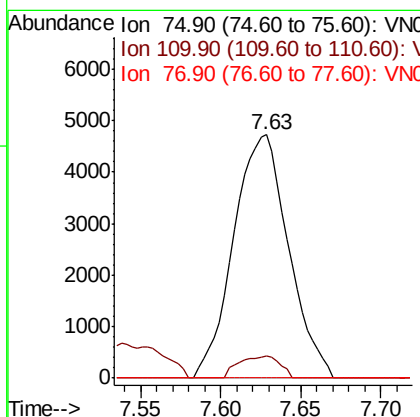
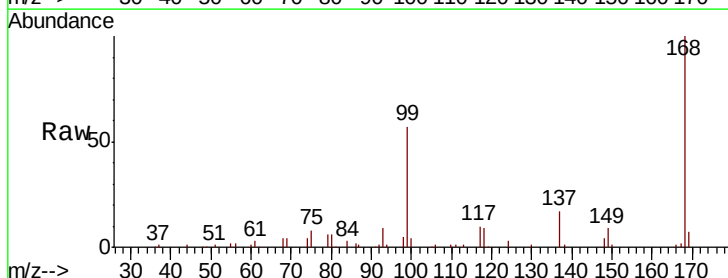
Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20200612

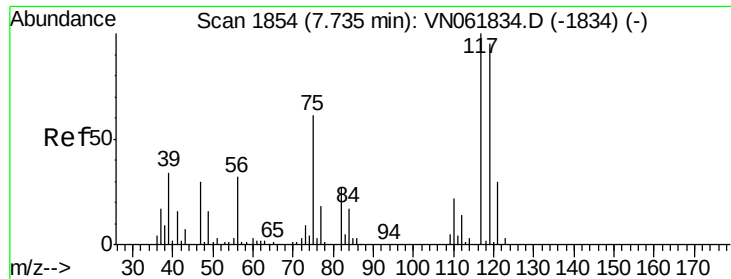
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	83.7	125.5
192	17.4	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.856 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN061879.D
 Acq: 18 Jun 2020 4:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	6.7	18.2	54.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 5.823 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20200612

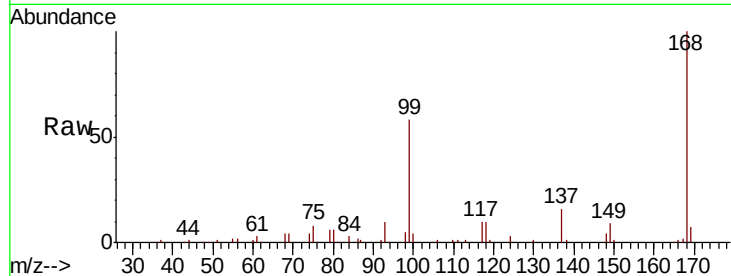
Tot Ion:117 Resp: 13167

Ion Ratio Lower Upper

117 100

119 5.8 75.8 113.6#

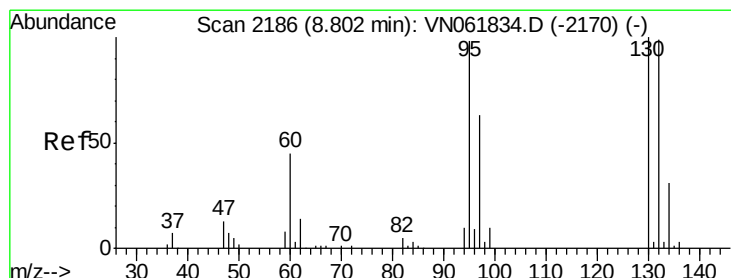
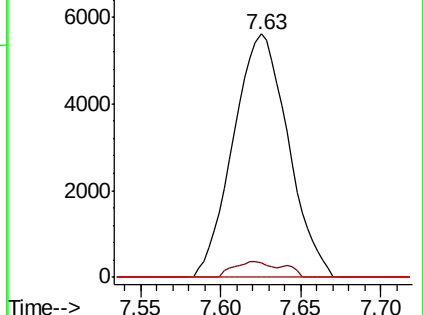
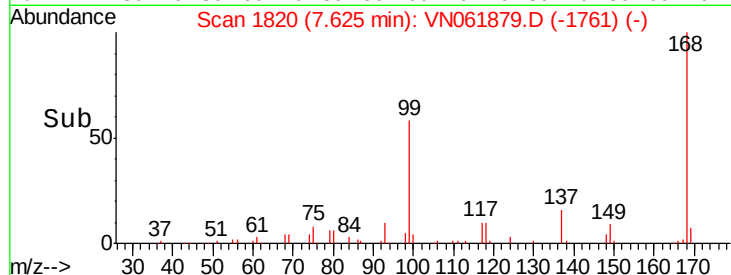
121 0.0 23.8 35.6#



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



#44

Trichloroethene

Concen: 2.717 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061879.D

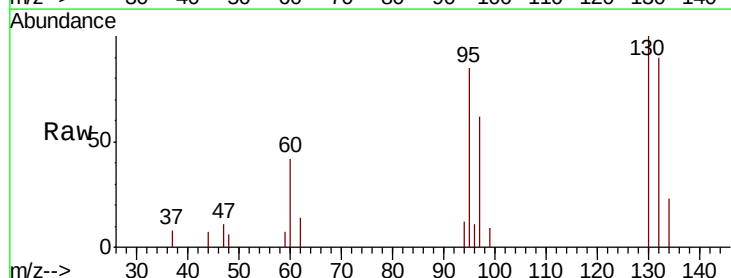
Acq: 18 Jun 2020 4:17

Tgt Ion:130 Resp: 4946

Ion Ratio Lower Upper

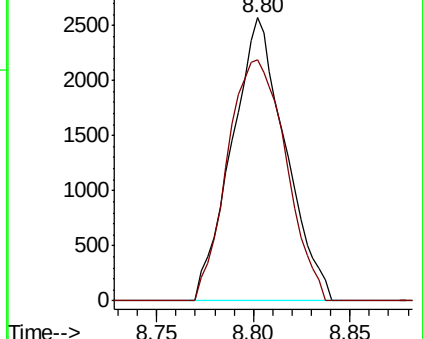
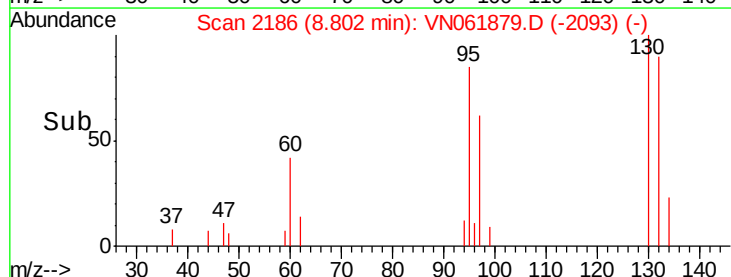
130 100

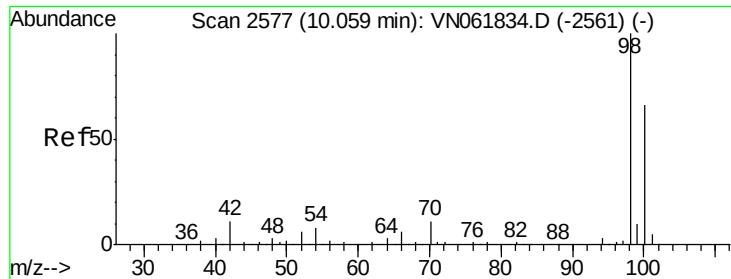
95 85.2 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 49.979 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

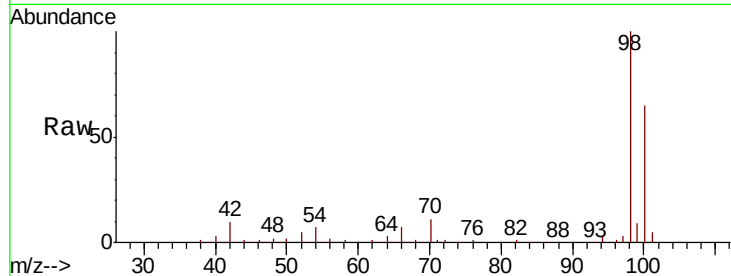
RE123D2-20200612

Tot Ion: 98 Resp: 314713

Ion Ratio Lower Upper

98 100

100 64.6 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

200000

150000

100000

50000

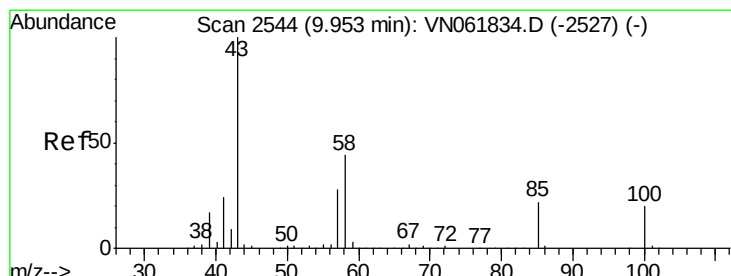
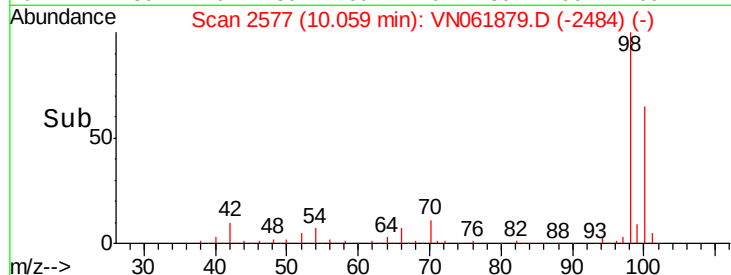
0

10.00

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.643 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.11 min

Lab File: VN061879.D

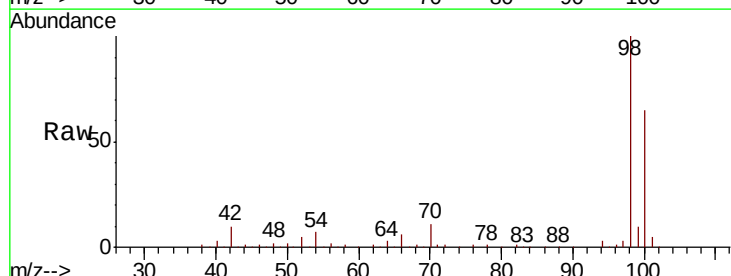
Acq: 18 Jun 2020 4:17

Tgt Ion: 43 Resp: 1142

Ion Ratio Lower Upper

43 100

58 198.4 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

1500

1000

500

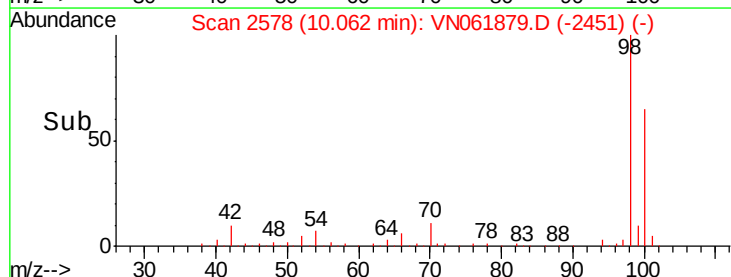
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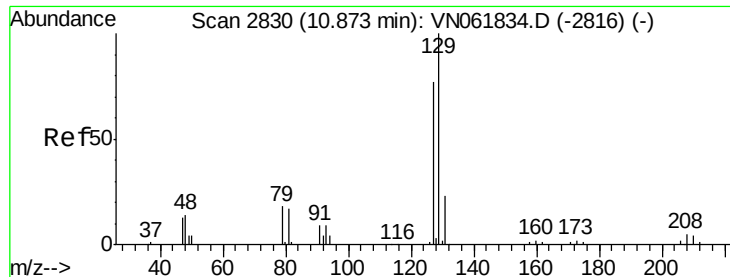
10.05

10.06

10.10

Time-->





#60

Dibromochloromethane

Concen: 1.296 ug/l

RT: 10.60 min Scan# 2746

Delta R.T. -0.27 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

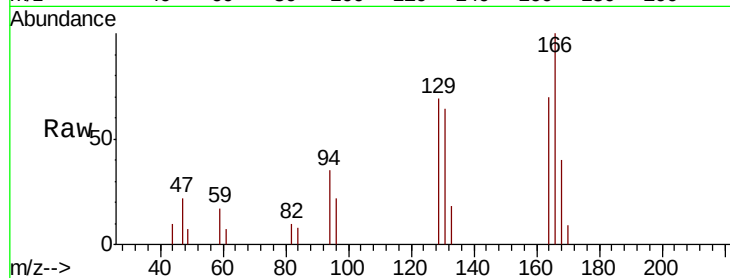
RE123D2-20200612

Tot Ion:129 Resp: 2472

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.60

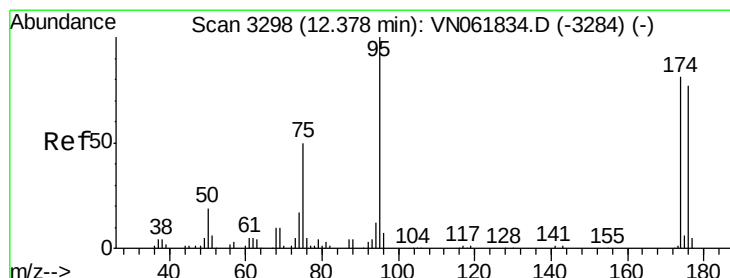
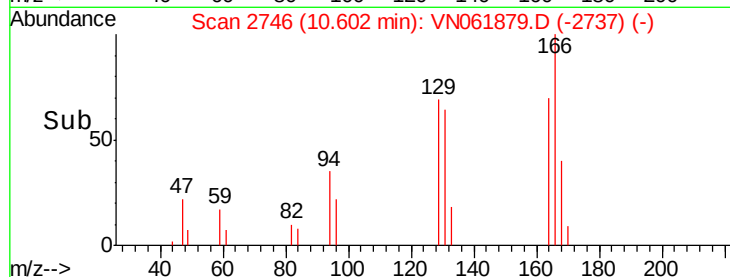
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 48.125 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

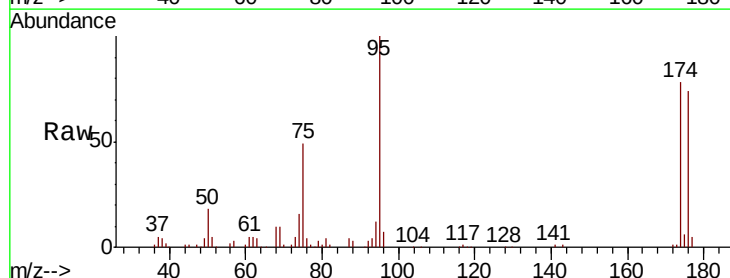
Tgt Ion: 95 Resp: 103947

Ion Ratio Lower Upper

95 100

174 77.2 0.0 158.6

176 74.3 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

80000

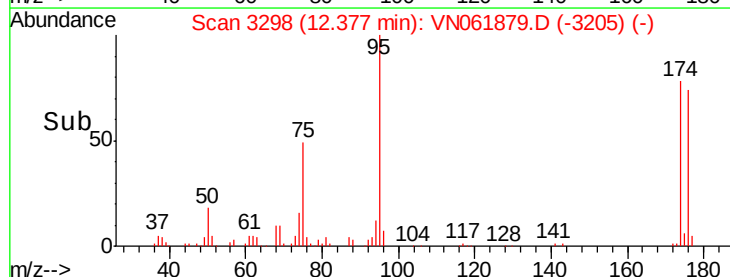
60000

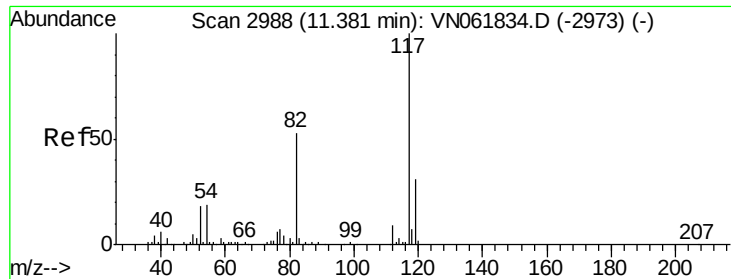
40000

20000

0

Time-->

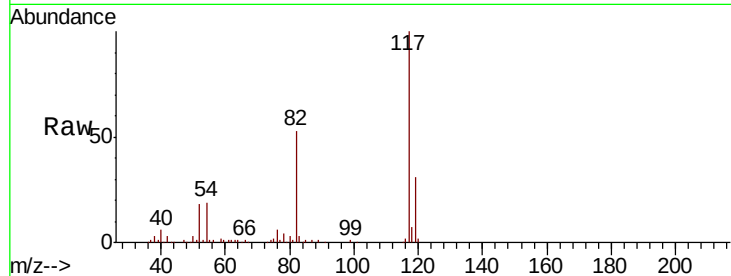




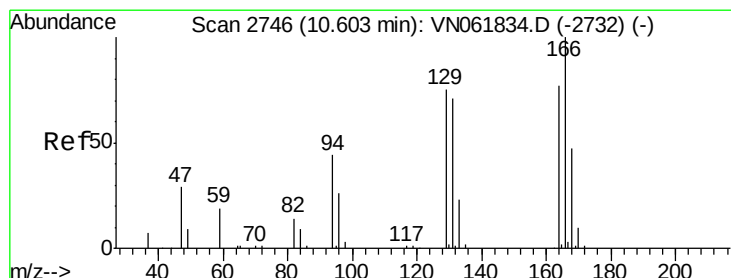
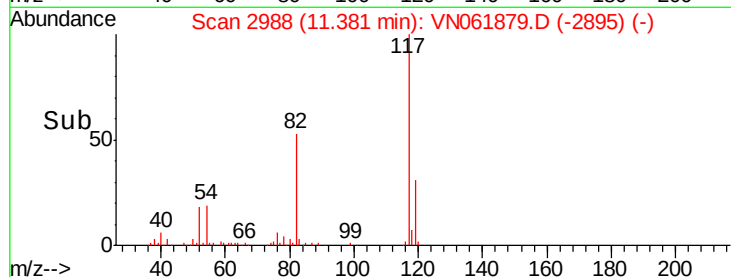
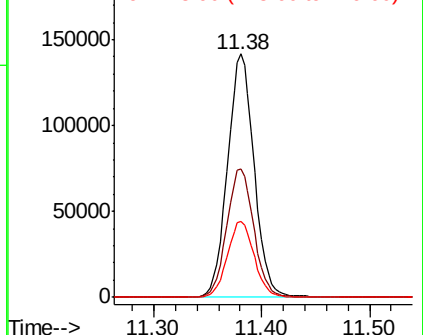
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061879.D
Acq: 18 Jun 2020 4:17

Instrument :
MSVOA_N
ClientSampleId :
RE123D2-20200612

Tot Ion:117 Resp: 243245
Ion Ratio Lower Upper
117 100
82 52.8 42.6 64.0
119 31.3 24.7 37.1

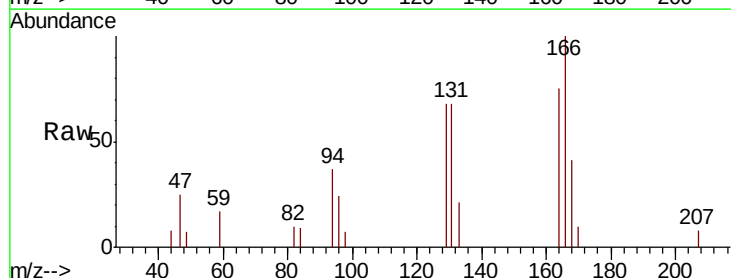


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

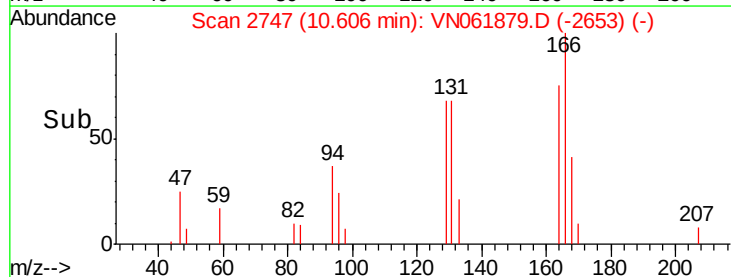
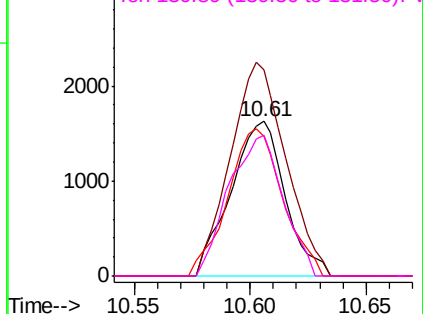


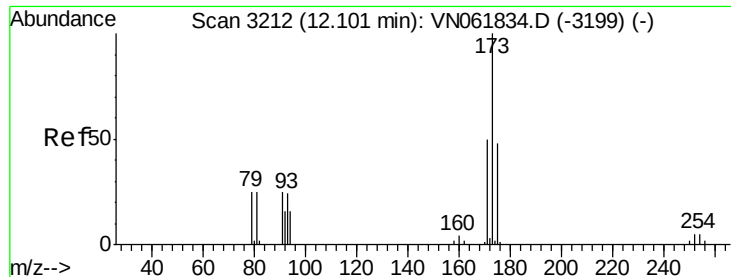
#64
Tetrachloroethene
Concen: 1.711 ug/l
RT: 10.61 min Scan# 2747
Delta R.T. 0.00 min
Lab File: VN061879.D
Acq: 18 Jun 2020 4:17

Tgt Ion:164 Resp: 2652
Ion Ratio Lower Upper
164 100
166 133.8 103.5 155.3
129 90.6 77.5 116.3
131 91.6 73.8 110.8



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: 0.628 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

Instrument :

MSVOA_N

ClientSampleId :

RE123D2-20200612

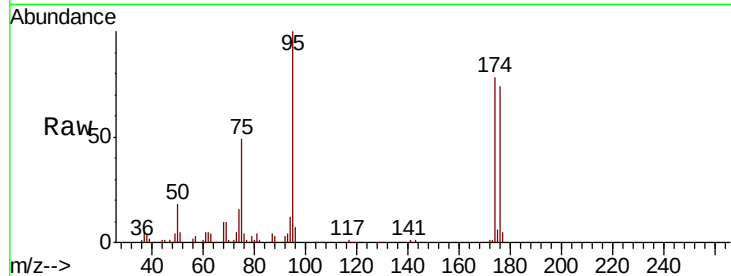
Tot Ion:173 Resp: 820

Ion Ratio Lower Upper

173 100

175 634.6 23.9 71.7#

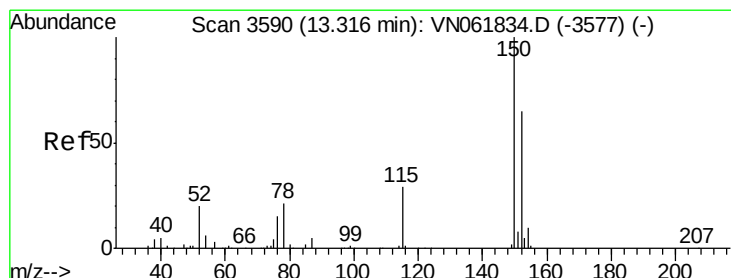
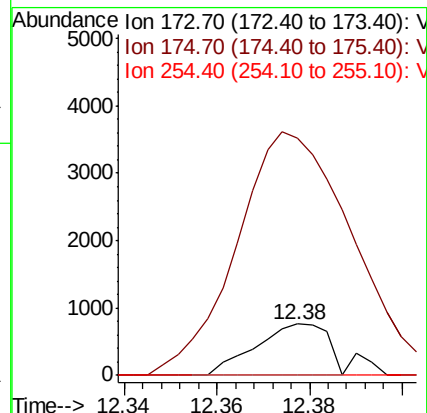
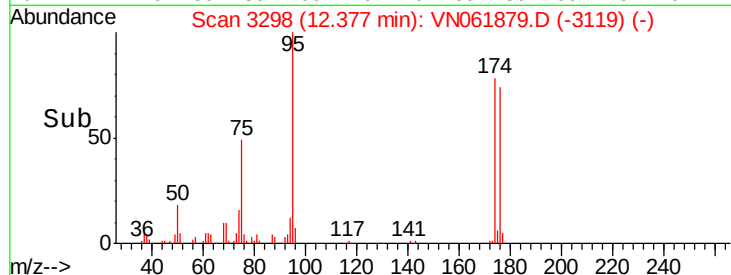
254 0.0 0.0 0.0



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# 3591

Delta R.T. 0.00 min

Lab File: VN061879.D

Acq: 18 Jun 2020 4:17

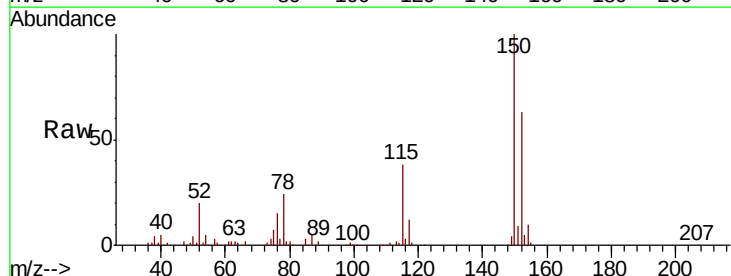
Tgt Ion:152 Resp: 93130

Ion Ratio Lower Upper

152 100

115 59.1 29.1 87.3

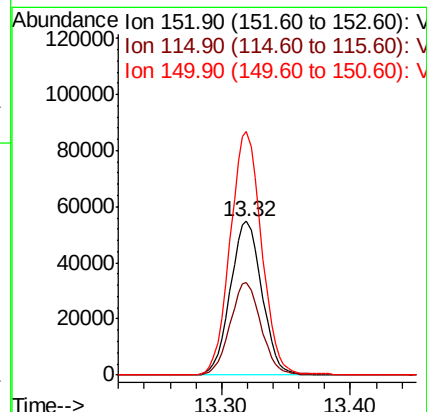
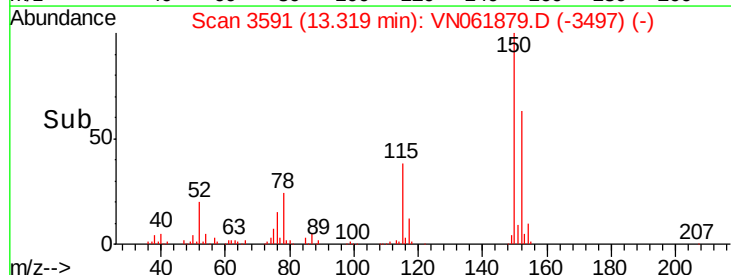
150 157.4 0.0 347.6

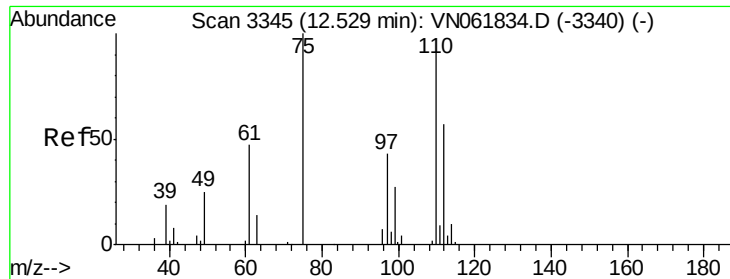


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

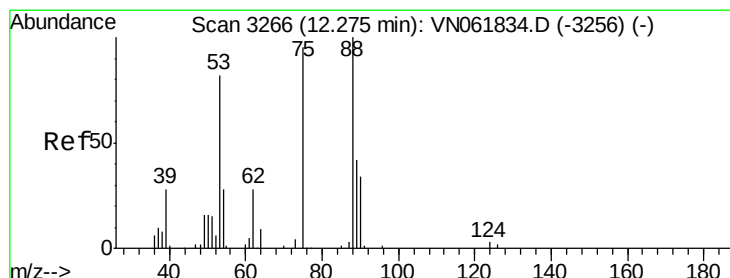
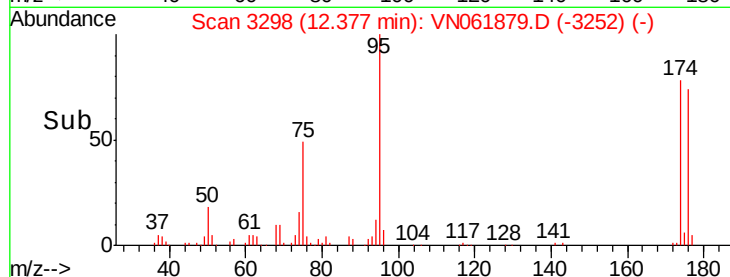
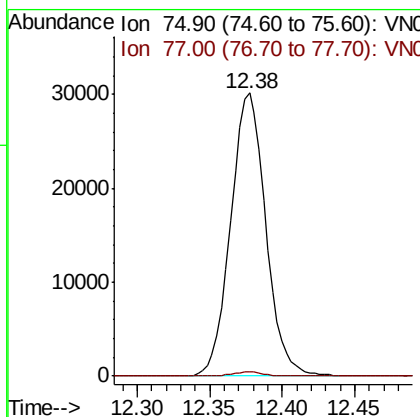
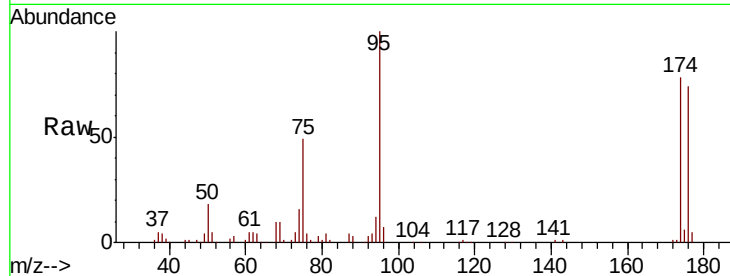




#76
 1,2,3-Trichloropropane
 Concen: 27.669 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061879.D
 Acq: 18 Jun 2020 4:17

Instrument :
 MSVOA_N
 ClientSampleId :
 RE123D2-20200612

Tot Ion: 75 Resp: 50589
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 75.465 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061879.D
 Acq: 18 Jun 2020 4:17

Tgt Ion: 75 Resp: 50589
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 36.0 54.0#

