

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073120\
 Data File : VN062712.D
 Acq On : 1 Aug 2020 2:47
 Operator : JC/MD
 Sample : L3518-46
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

Quant Time: Aug 01 06:13:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072120W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 21 18:48:59 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	135122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	241280	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	244552	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	92023	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	118104	56.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.54%	
35) Dibromofluoromethane	7.55	113	83455	52.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.32%	
50) Toluene-d8	10.06	98	318928	50.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.88%	
62) 4-Bromofluorobenzene	12.38	95	118173	51.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.22%	

Target Compounds

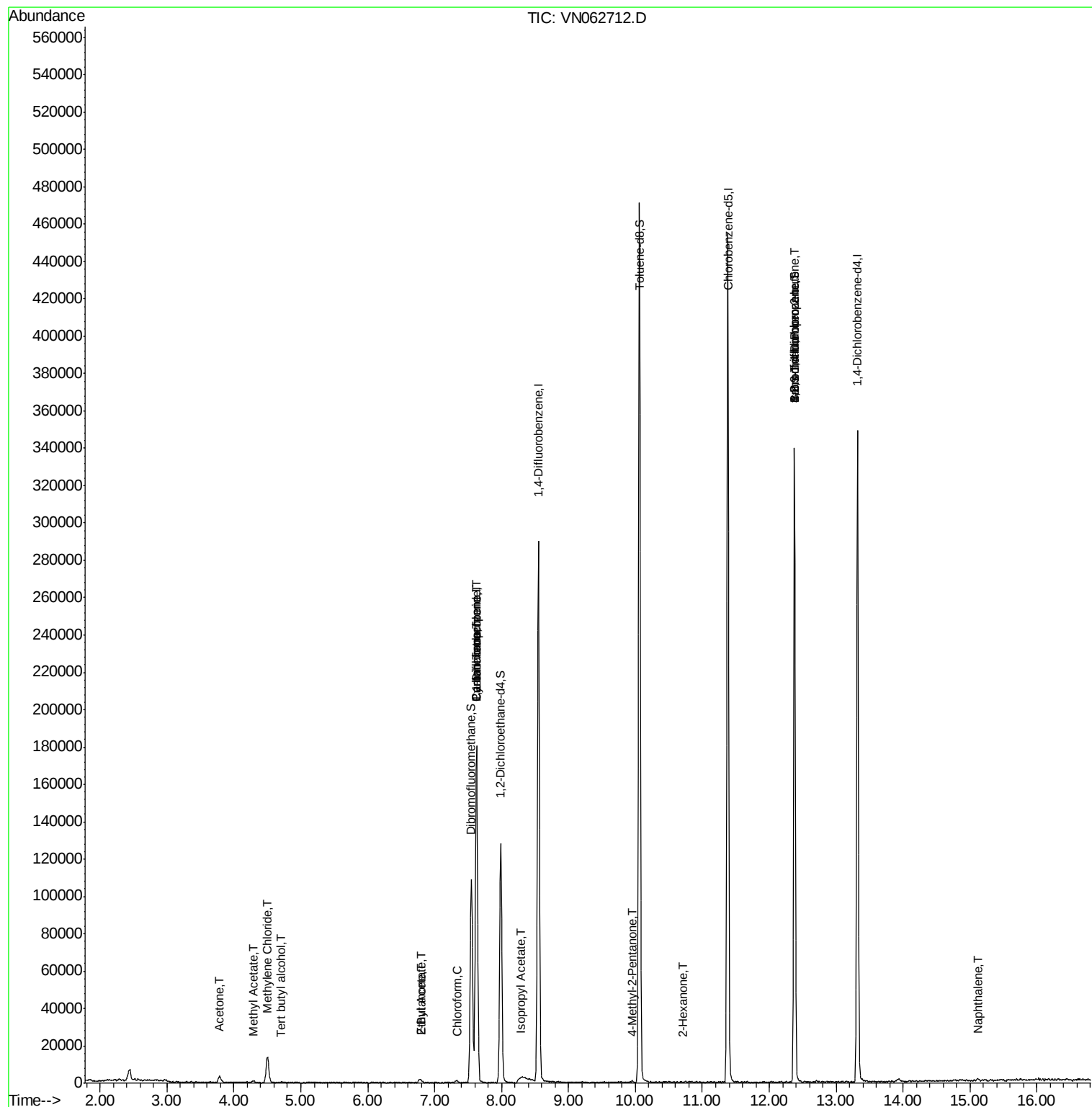
						Qvalue
11) Tert butyl alcohol	4.70	59	132	0.395	ug/l #	73
16) Acetone	3.79	43	6142	7.776	ug/l #	85
18) Methyl Acetate	4.28	43	1185	0.593	ug/l #	56
20) Methylene Chloride	4.50	84	10249	5.410	ug/l	94
25) 2-Butanone	6.80	43	674	0.560	ug/l #	52
30) Chloroform	7.34	83	1391	0.437	ug/l #	65
31) Cyclohexane	7.63	56	3629	1.173	ug/l #	36
36) 1,1-Dichloropropene	7.63	75	11793	4.586	ug/l #	52
37) Ethyl Acetate	6.80	43	674	0.243	ug/l #	69
38) Carbon Tetrachloride	7.63	117	14595	5.904	ug/l #	18
43) Isopropyl Acetate	8.28	43	2464	0.551	ug/l #	55
51) 4-Methyl-2-Pentanone	9.96	43	1671	0.625	ug/l #	67
59) 2-Hexanone	10.72	43	41	2.979	ug/l #	26
71) Bromoform	12.38	173	742	0.512	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	65023	27.760	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	65023	77.278	ug/l #	12
95) Naphthalene	15.11	128	1226	4.038	ug/l #	69

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

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QLast Update : Tue Jul 21 18:48:59 2020
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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: VN062712.D

Acq: 1 Aug 2020 2:47

Instrument :

MSVOA_N

ClientSampled :

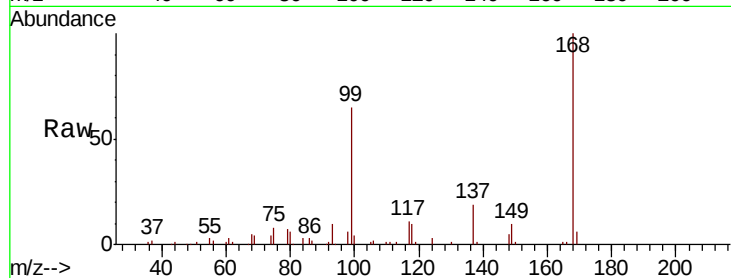
TP-13

Tot Ion:168 Resp: 135122

Ion Ratio Lower Upper

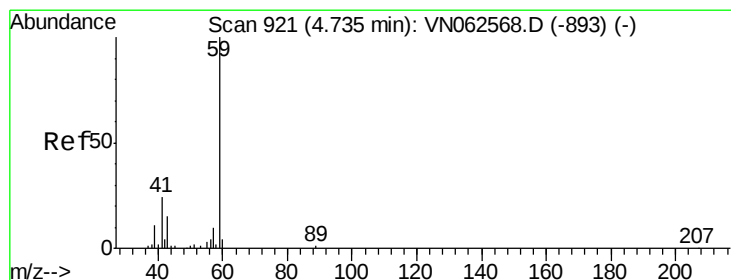
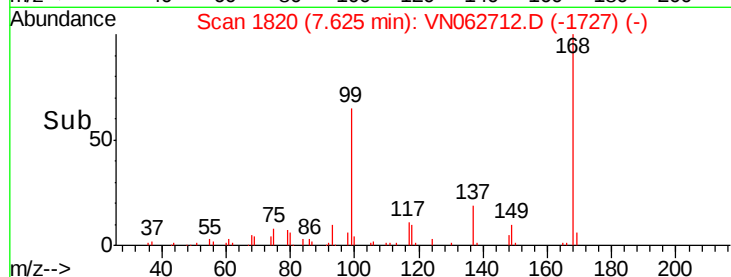
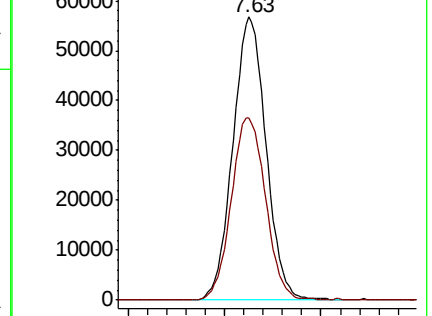
168 100

99 64.6 48.4 72.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#11

Tert butyl alcohol

Concen: 0.395 ug/l

RT: 4.70 min Scan# 909

Delta R.T. -0.04 min

Lab File: VN062712.D

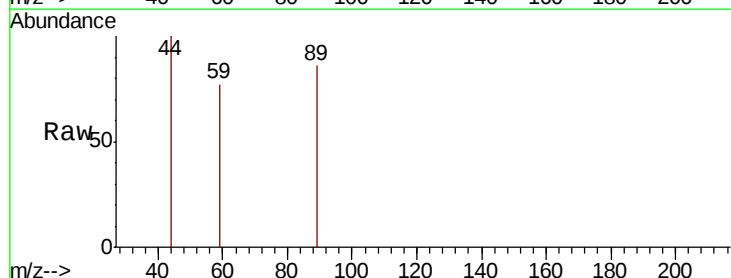
Acq: 1 Aug 2020 2:47

Tgt Ion: 59 Resp: 132

Ion Ratio Lower Upper

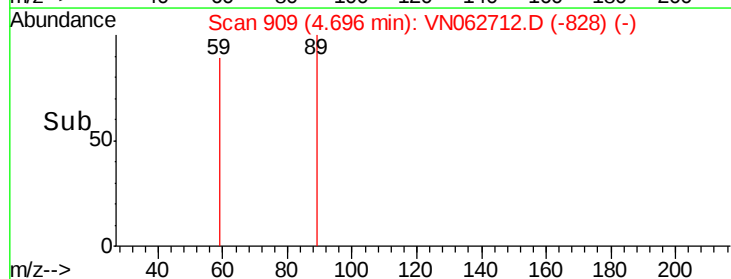
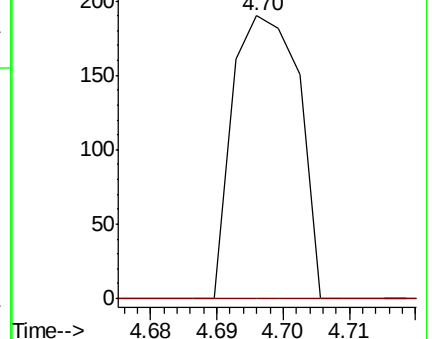
59 100

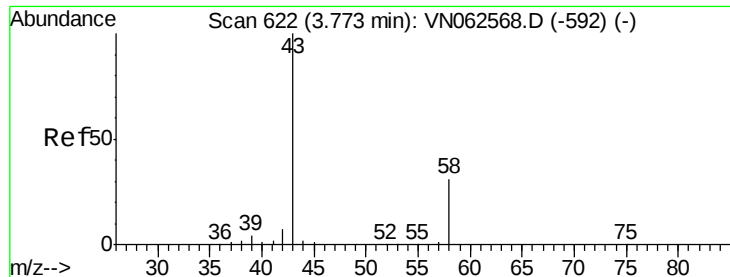
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 7.776 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

Instrument :

MSVOA_N

ClientSampled :

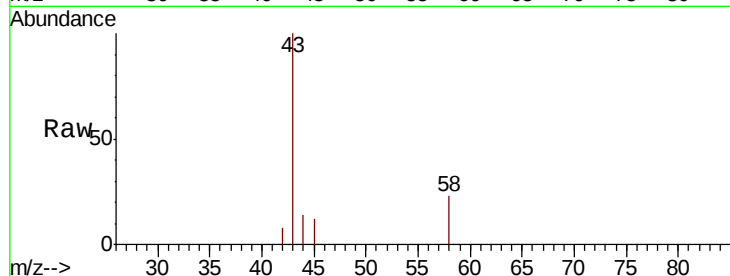
TP-13

Tot Ion: 43 Resp: 6142

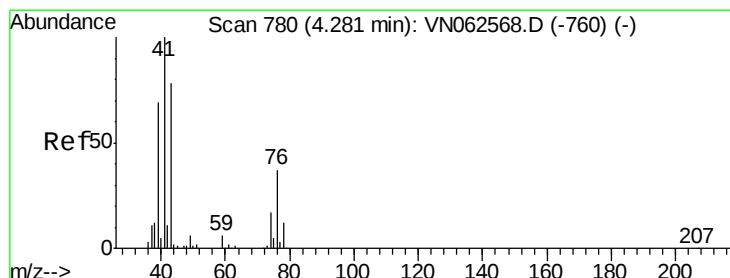
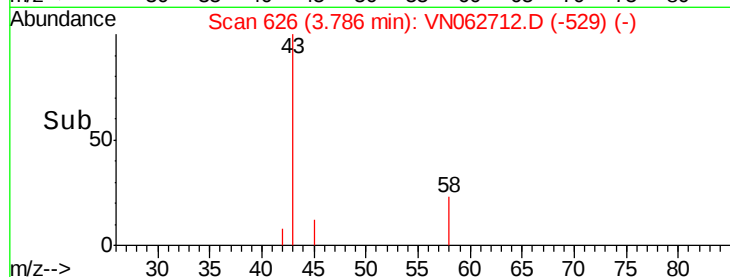
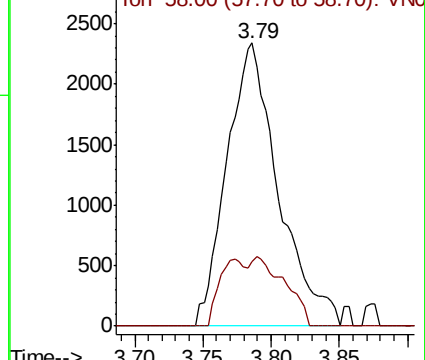
Ion Ratio Lower Upper

43 100

58 22.6 24.6 37.0#



Abundance Ion 43.00 (42.70 to 43.70): VN062712.D (-529) (-)



#18

Methyl Acetate

Concen: 0.593 ug/l

RT: 4.28 min Scan# 779

Delta R.T. -0.00 min

Lab File: VN062712.D

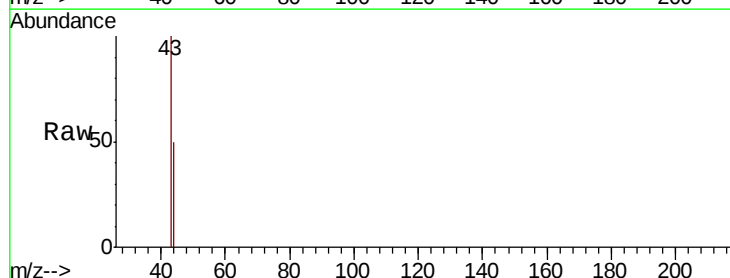
Acq: 1 Aug 2020 2:47

Tgt Ion: 43 Resp: 1185

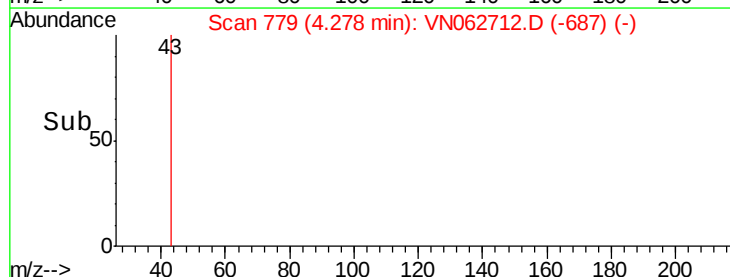
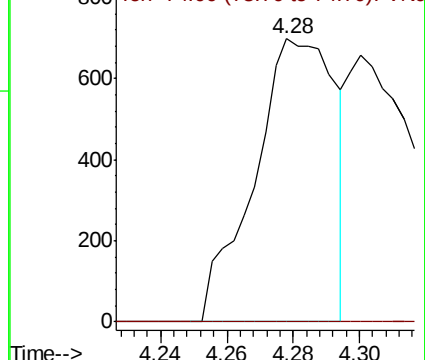
Ion Ratio Lower Upper

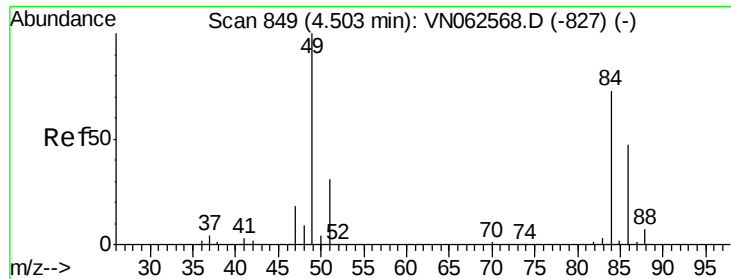
43 100

74 0.0 16.6 24.8#



Abundance Ion 43.00 (42.70 to 43.70): VN062712.D (-687) (-)

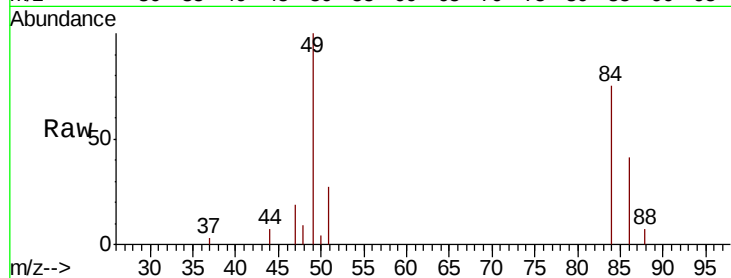




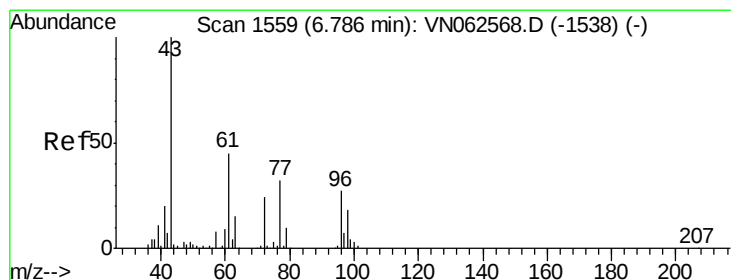
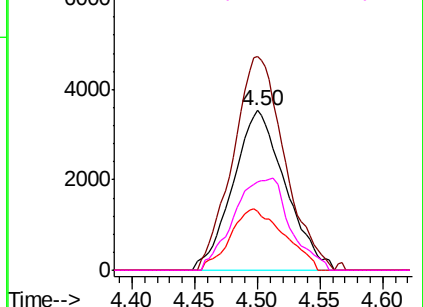
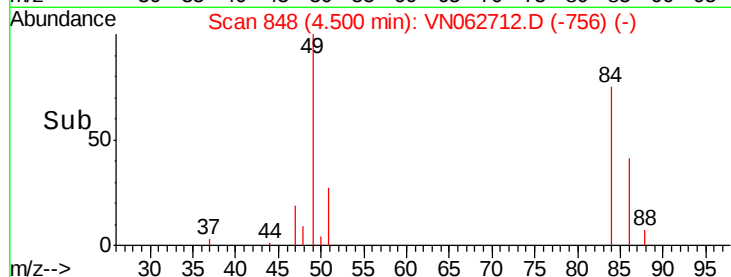
#20
Methvlene Chloride
Concen: 5.410 ug/l
RT: 4.50 min Scan# 848
Delta R.T. -0.00 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

Instrument :
MSVOA_N
ClientSampleId :
TP-13

Tot Ion: 84 Resp: 10249
Ion Ratio Lower Upper
84 100
49 133.8 109.4 164.0
51 36.7 33.6 50.4
86 55.4 51.4 77.2

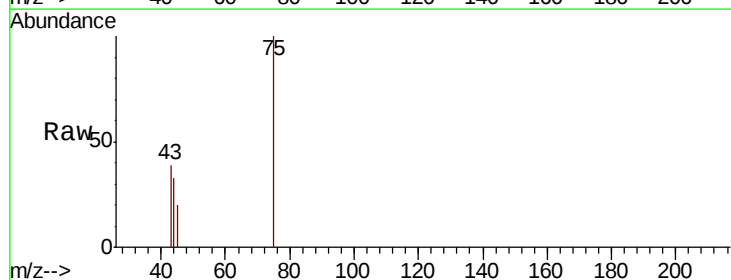


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

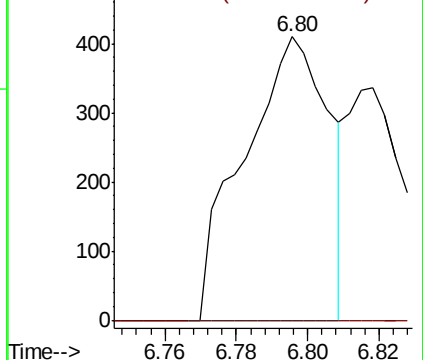
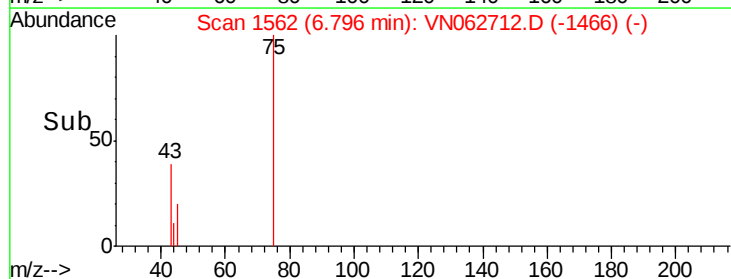


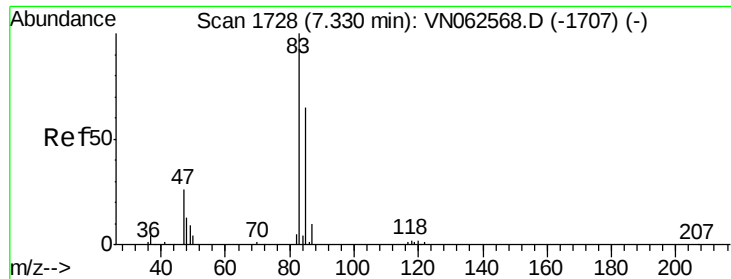
#25
2-Butanone
Concen: 0.560 ug/l
RT: 6.80 min Scan# 1562
Delta R.T. 0.01 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

Tgt Ion: 43 Resp: 674
Ion Ratio Lower Upper
43 100
72 0.0 19.0 28.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

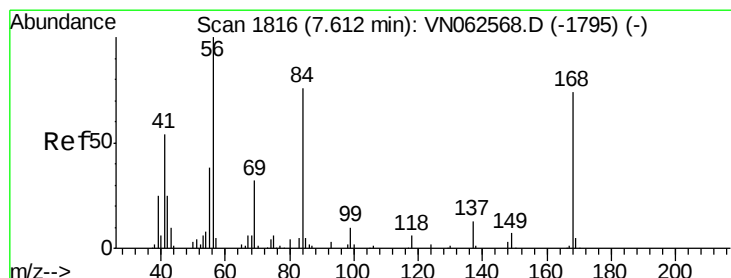
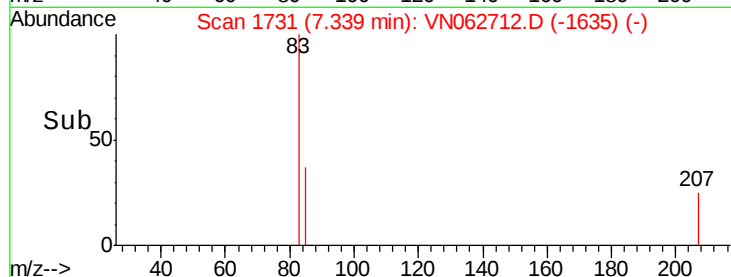
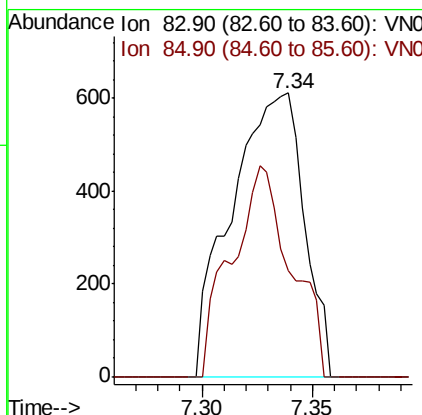
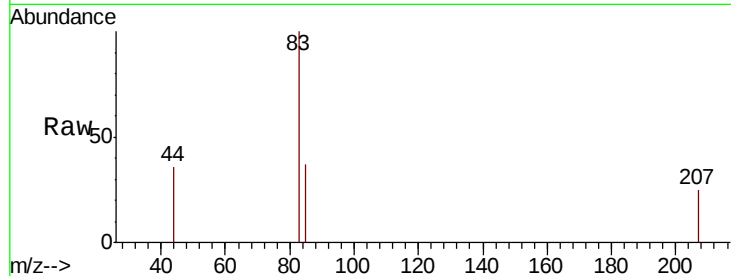




#30
Chloroform
Concen: 0.437 ug/l
RT: 7.34 min Scan# 1731
Delta R.T. 0.01 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

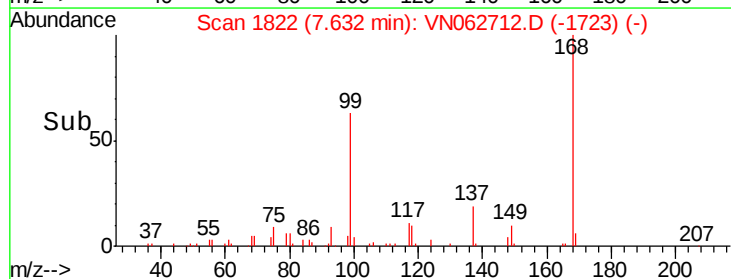
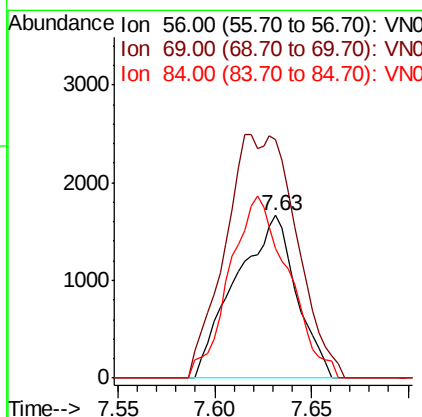
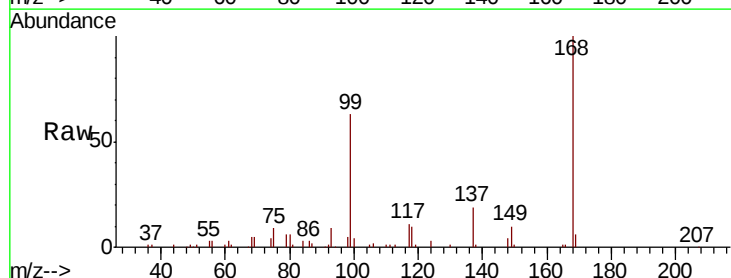
Instrument :
MSVOA_N
ClientSampleId :
TP-13

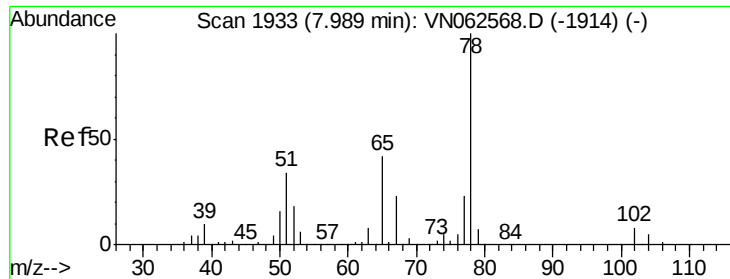
Tot Ion: 83 Resp: 1391
Ion Ratio Lower Upper
83 100
85 37.3 52.0 78.0#



#31
Cyclohexane
Concen: 1.173 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.02 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

Tgt Ion: 56 Resp: 3629
Ion Ratio Lower Upper
56 100
69 147.1 25.3 37.9#
84 79.9 61.0 91.4





#33

1,2-Dichloroethane-d4

Concen: 56.265 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

Instrument :

MSVOA_N

ClientSampled :

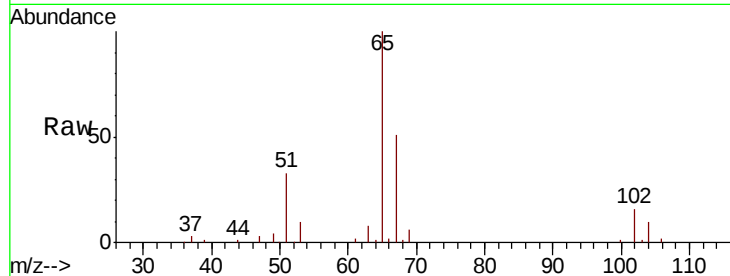
TP-13

Tot Ion: 65 Resp: 118104

Ion Ratio Lower Upper

65 100

67 50.8 0.0 106.0



Abundance Ion 64.90 (64.60 to 65.60): VN062712.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN062712.D (-1840) (-)

7.99

60000

50000

40000

30000

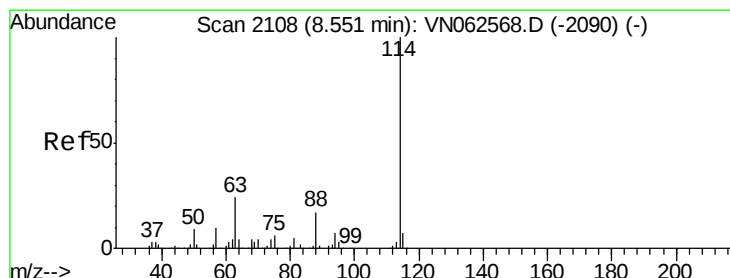
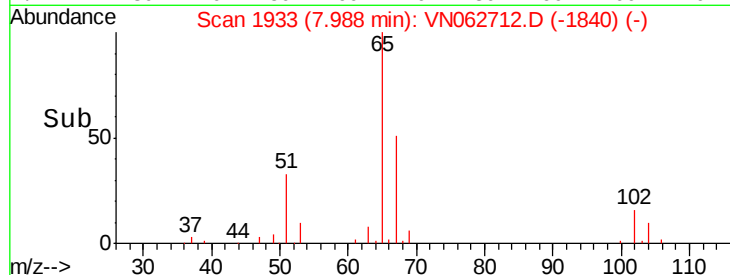
20000

10000

0

Time-->

7.90 7.95 8.00 8.05



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

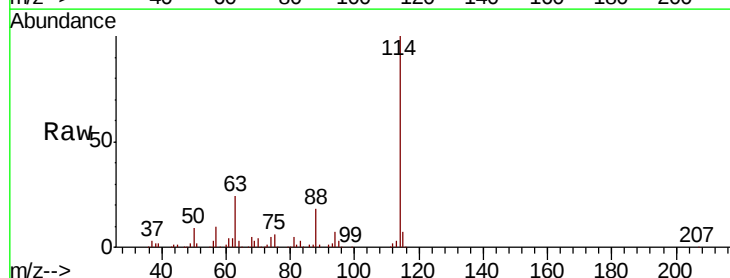
Tgt Ion: 114 Resp: 241280

Ion Ratio Lower Upper

114 100

63 23.7 0.0 48.4

88 17.7 0.0 33.8



Abundance Ion 113.90 (113.60 to 114.60): VN062712.D (-2015) (-)

Ion 63.00 (62.70 to 63.70): VN062712.D (-2015) (-)

Ion 87.90 (87.60 to 88.60): VN062712.D (-2015) (-)

8.55

150000

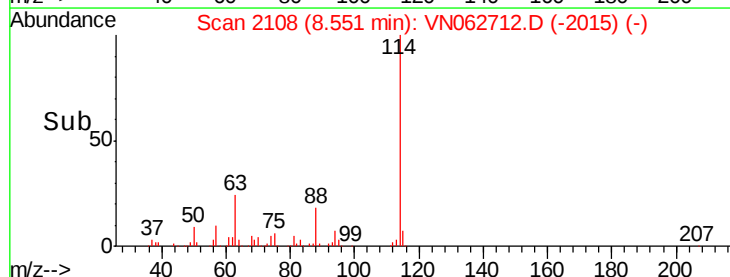
100000

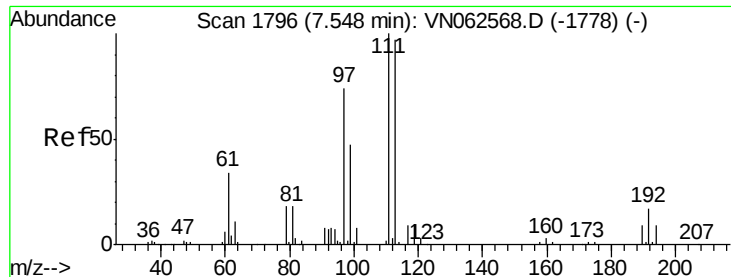
50000

0

Time-->

8.50 8.55 8.60

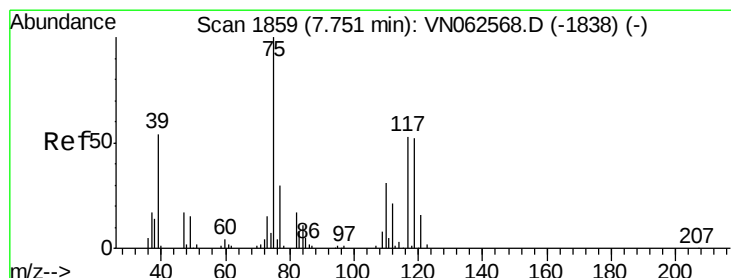
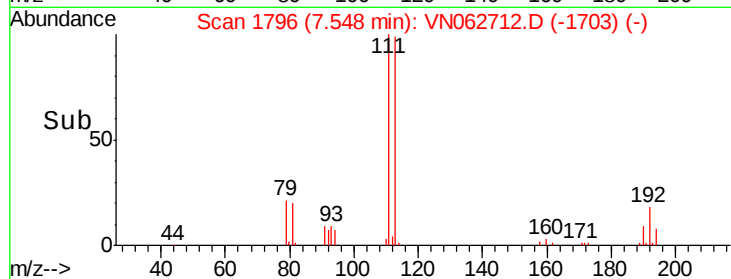
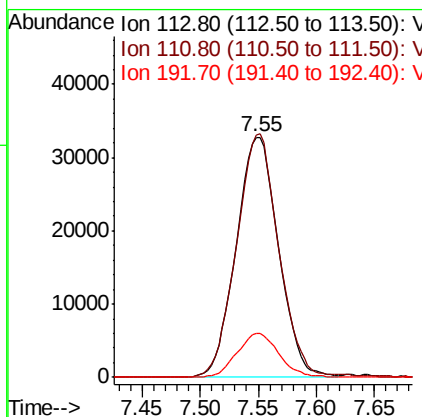
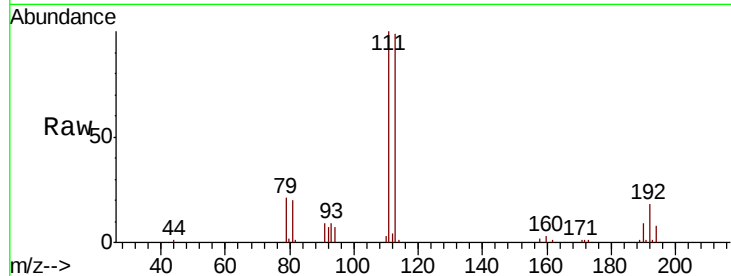




#35
 Dibromofluoromethane
 Concen: 52.657 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN062712.D
 Acq: 1 Aug 2020 2:47

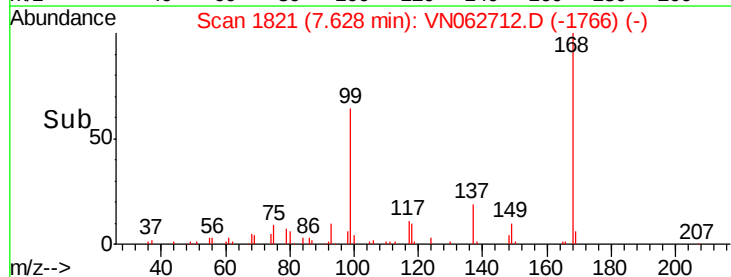
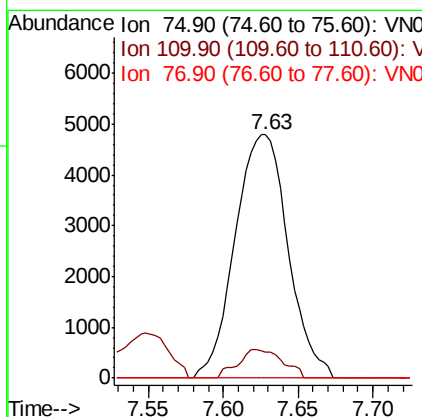
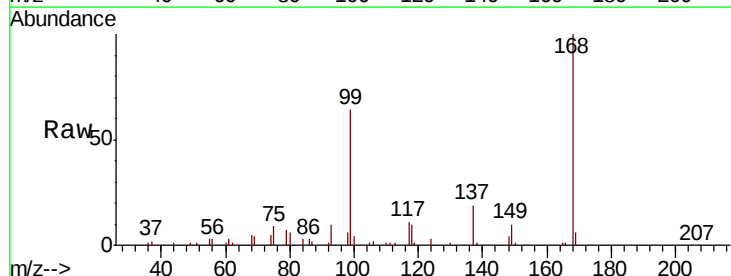
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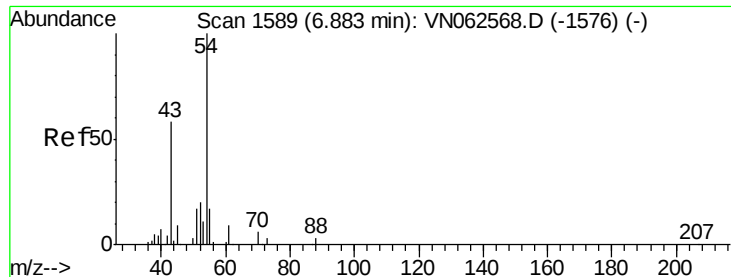
Tot Ion:113 Resp: 83455
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.7 124.1
 192 18.0 14.8 22.2



#36
 1,1-Dichloropropene
 Concen: 4.586 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.12 min
 Lab File: VN062712.D
 Acq: 1 Aug 2020 2:47

Tgt Ion: 75 Resp: 11793
 Ion Ratio Lower Upper
 75 100
 110 9.8 16.0 48.0#
 77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 0.243 ug/l

RT: 6.80 min Scan# 1562

Delta R.T. -0.09 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

Instrument :

MSVOA_N

ClientSampled :

TP-13

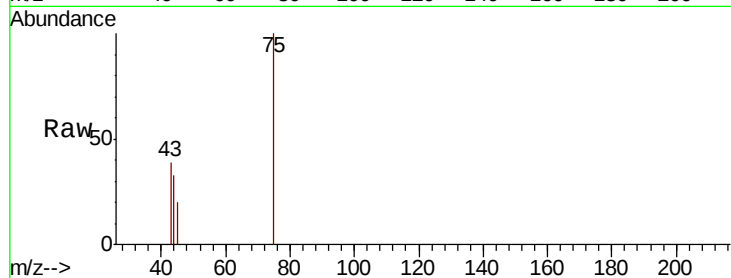
Tot Ion: 43 Resp: 674

Ion Ratio Lower Upper

43 100

61 0.0 11.3 16.9#

70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0

6.80

400

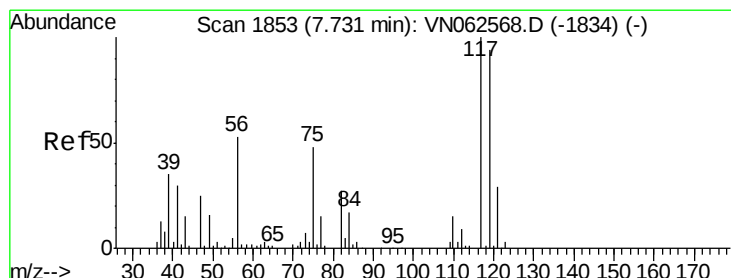
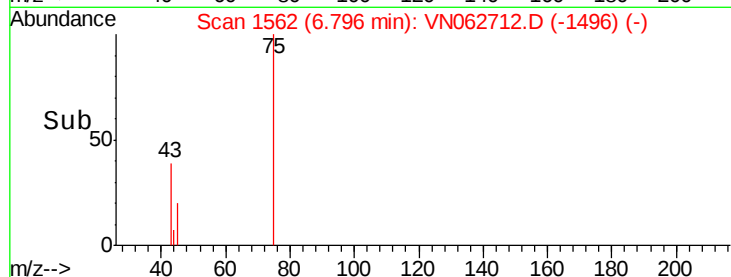
300

200

100

0

Time-->



#38

Carbon Tetrachloride

Concen: 5.904 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

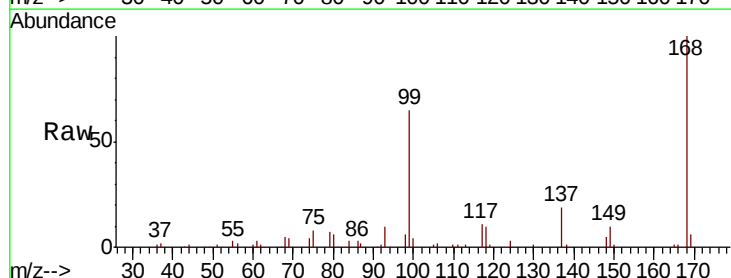
Tgt Ion: 117 Resp: 14595

Ion Ratio Lower Upper

117 100

119 6.7 74.8 112.2#

121 0.0 23.0 34.6#



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

7.63

8000

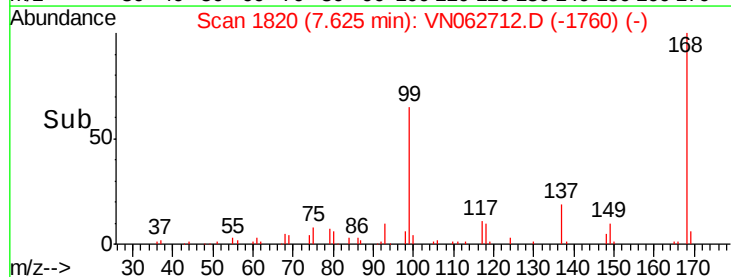
6000

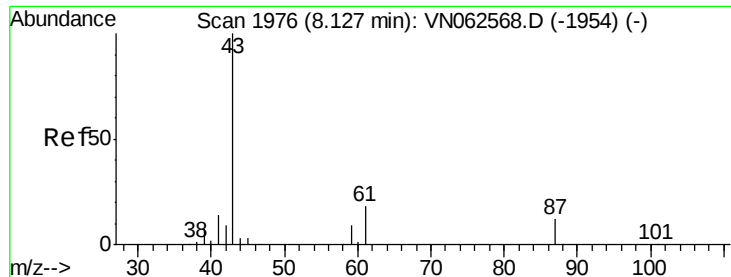
4000

2000

0

Time-->





#43

Isopropyl Acetate

Concen: 0.551 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.16 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

Instrument :

MSVOA_N

ClientSampled :

TP-13

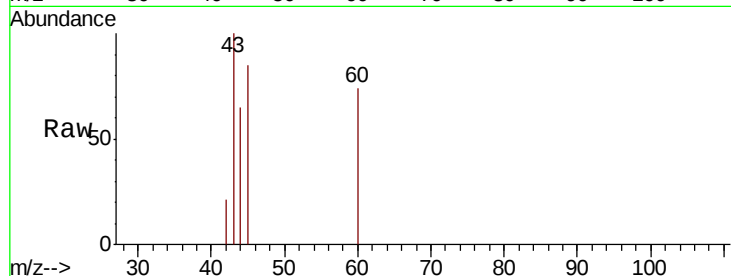
Tot Ion: 43 Resp: 2464

Ion Ratio Lower Upper

43 100

61 0.0 20.8 31.2#

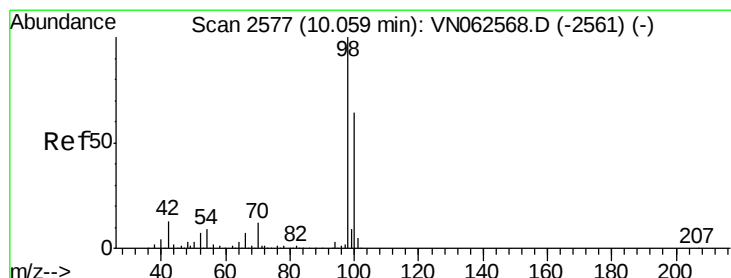
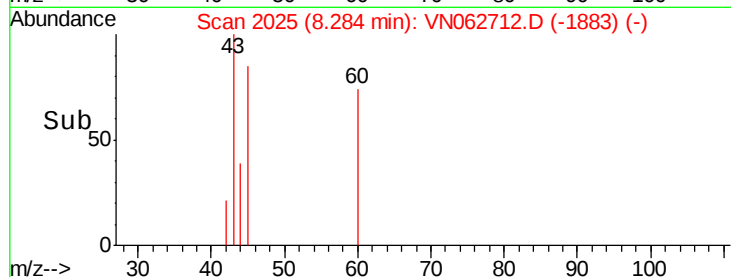
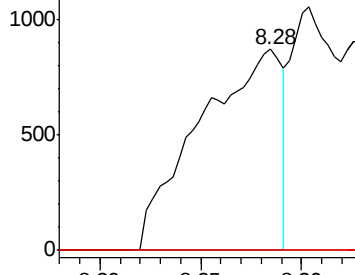
87 0.0 9.2 13.8#



Abundance Ion 43.00 (42.70 to 43.70): VN062712.D (-1883) (-)

Ion 61.00 (60.70 to 61.70): VN062712.D (-1883) (-)

Ion 87.00 (86.70 to 87.70): VN062712.D (-1883) (-)



#50

Toluene-d8

Concen: 50.435 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN062712.D

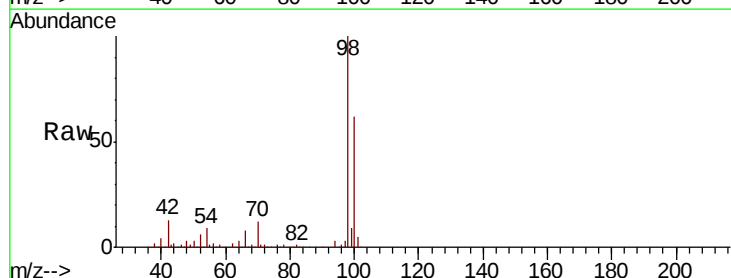
Acq: 1 Aug 2020 2:47

Tgt Ion: 98 Resp: 318928

Ion Ratio Lower Upper

98 100

100 63.0 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

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Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

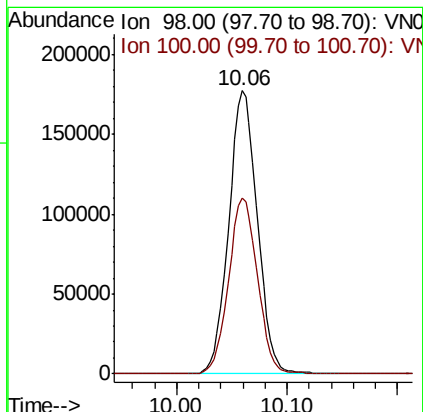
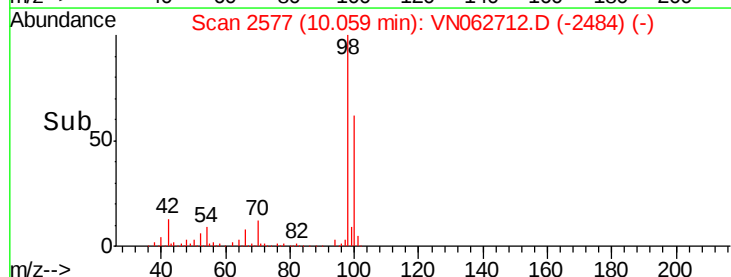
Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

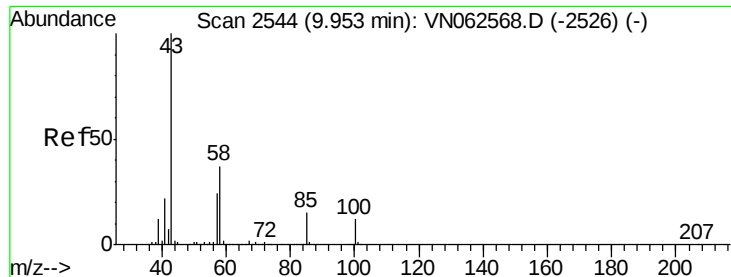
Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN062712.D (-2484) (-)

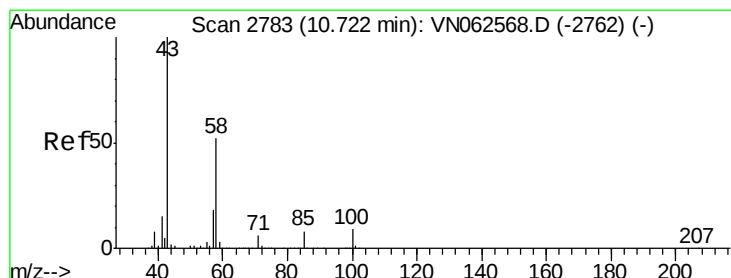
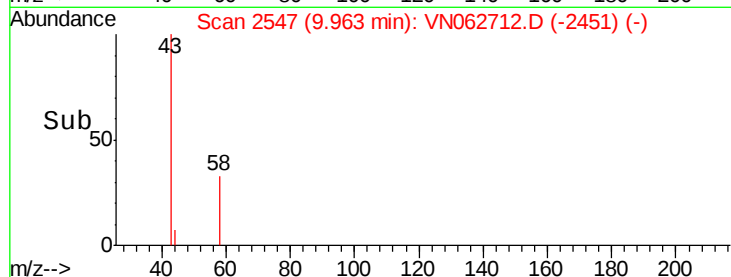
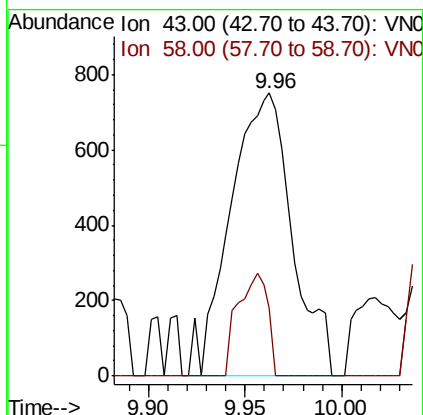
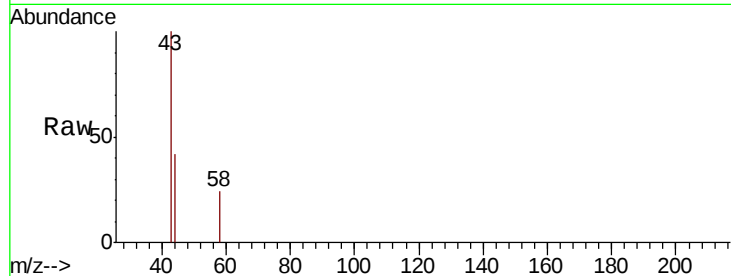




#51
 4-Methyl-2-Pentanone
 Concen: 0.625 ug/l
 RT: 9.96 min Scan# 2547
 Delta R.T. 0.01 min
 Lab File: VN062712.D
 Acq: 1 Aug 2020 2:47

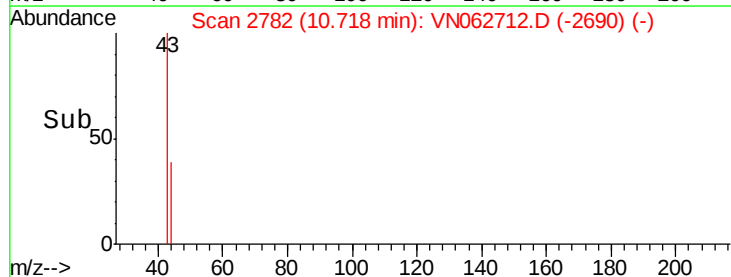
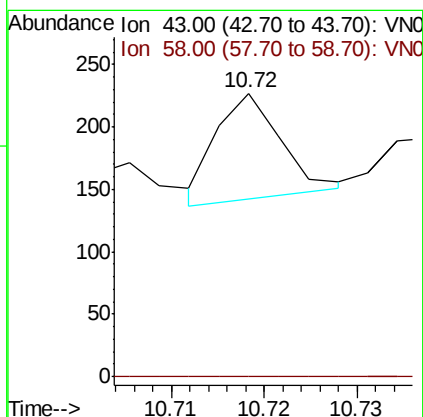
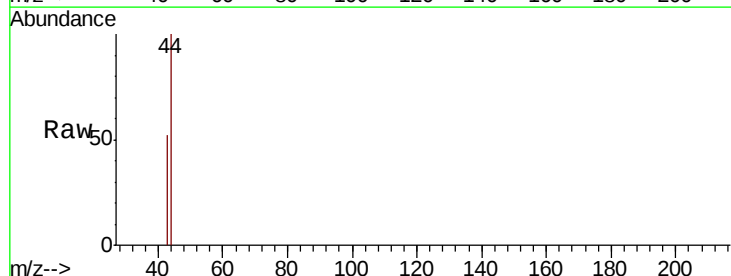
Instrument :
 MSVOA_N
 ClientSampled :
 TP-13

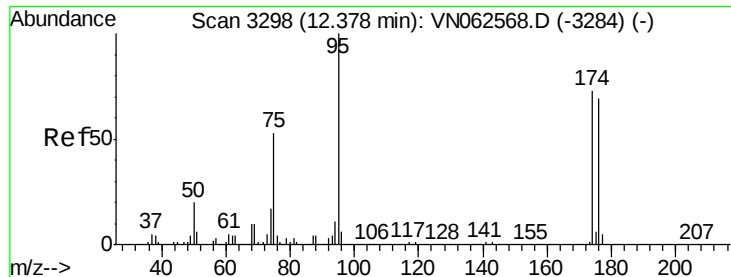
Tot Ion: 43 Resp: 1671
 Ion Ratio Lower Upper
 43 100
 58 17.5 29.8 44.6#



#59
 2-Hexanone
 Concen: 2.979 ug/l
 RT: 10.72 min Scan# 2782
 Delta R.T. -0.00 min
 Lab File: VN062712.D
 Acq: 1 Aug 2020 2:47

Tgt Ion: 43 Resp: 41
 Ion Ratio Lower Upper
 43 100
 58 0.0 26.0 78.0#

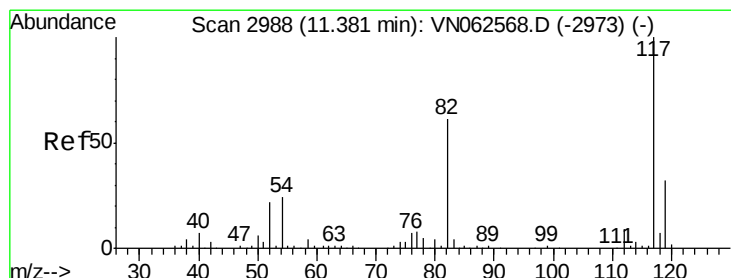
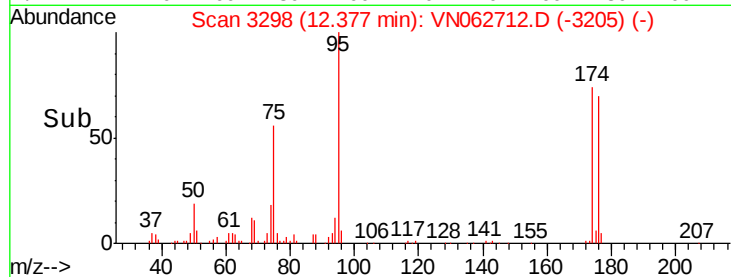
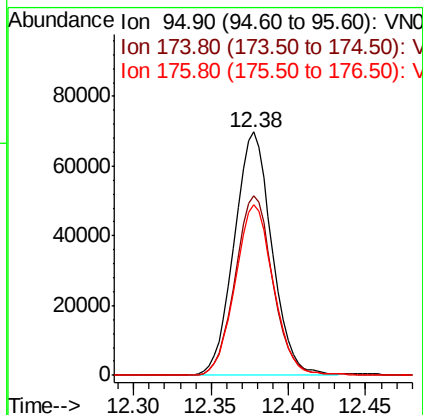
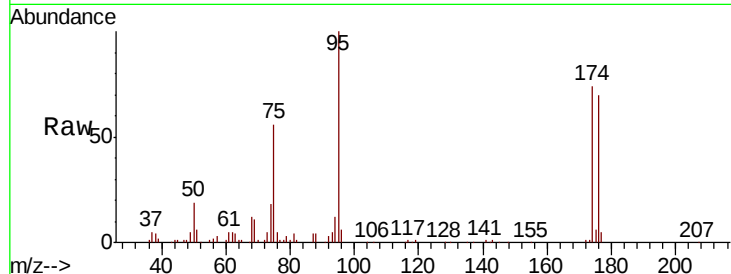




#62
4-Bromofluorobenzene
Concen: 51.110 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

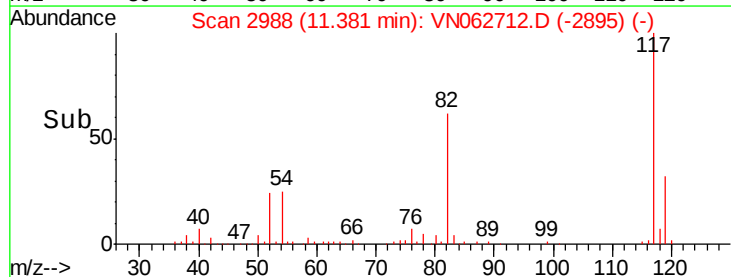
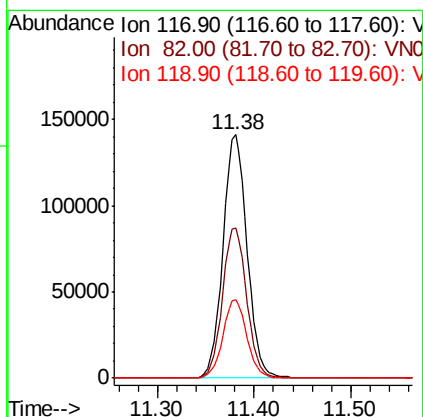
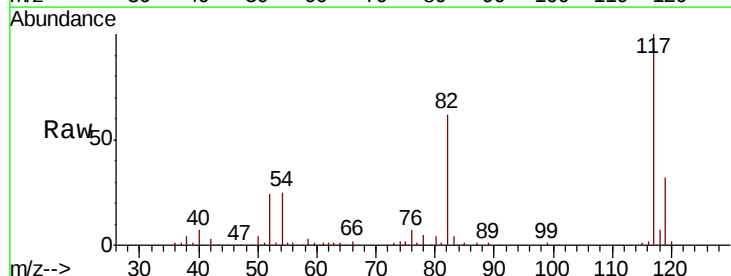
Instrument :
MSVOA_N
ClientSampled :
TP-13

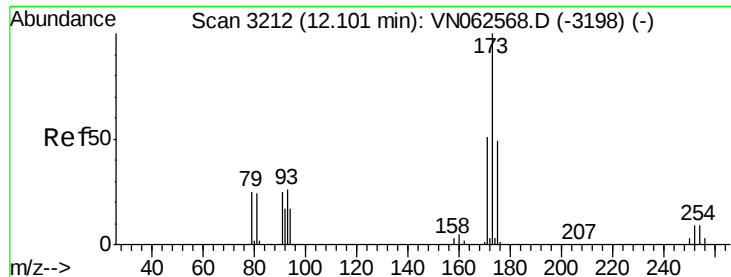
Tot Ion: 95 Resp: 118173
Ion Ratio Lower Upper
95 100
174 74.2 0.0 144.6
176 71.0 0.0 139.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

Tgt Ion: 117 Resp: 244552
Ion Ratio Lower Upper
117 100
82 61.6 49.0 73.6
119 32.1 25.4 38.2





#71

Bromoform

Concen: 0.512 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN062712.D

Acq: 1 Aug 2020 2:47

Instrument :

MSVOA_N

ClientSampled :

TP-13

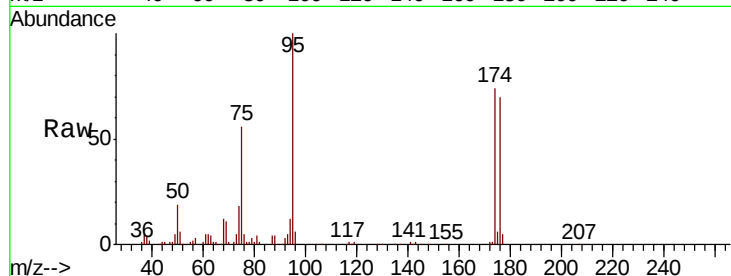
Tot Ion:173 Resp: 742

Ion Ratio Lower Upper

173 100

175 778.2 24.1 72.2#

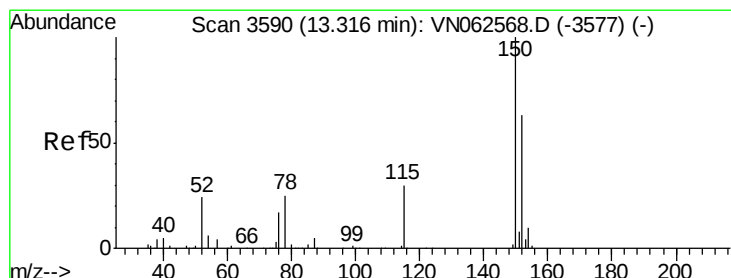
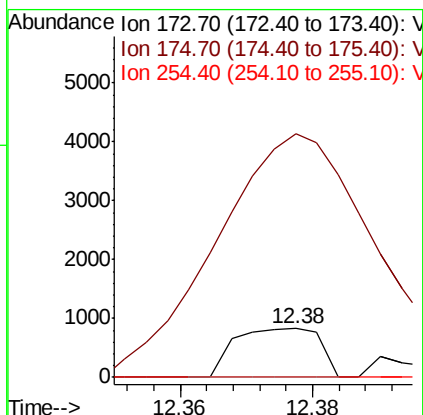
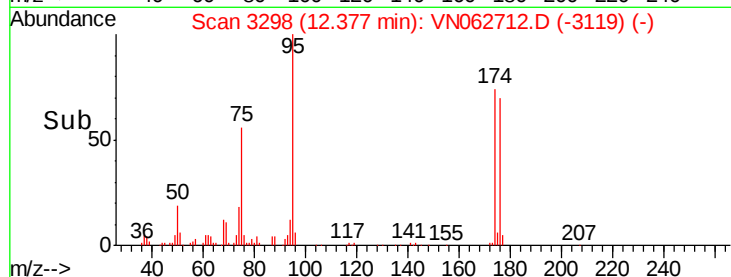
254 0.0 0.0 0.0



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: VN062712.D

Acq: 1 Aug 2020 2:47

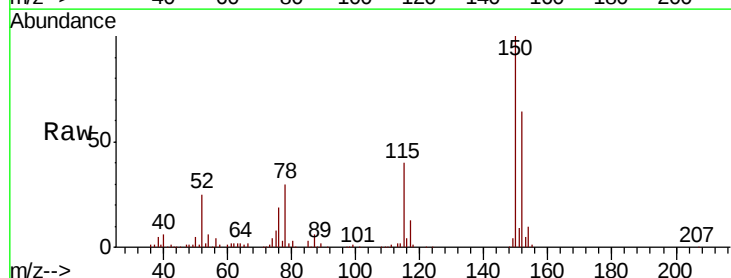
Tgt Ion:152 Resp: 92023

Ion Ratio Lower Upper

152 100

115 64.2 31.8 95.4

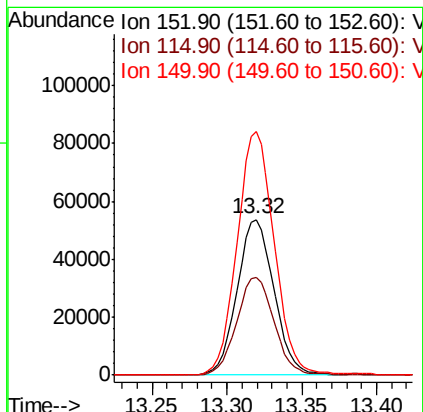
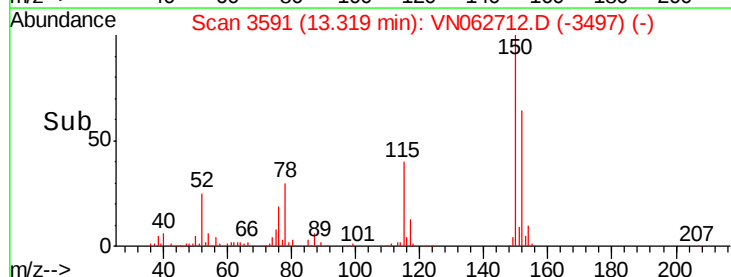
150 158.7 0.0 351.4

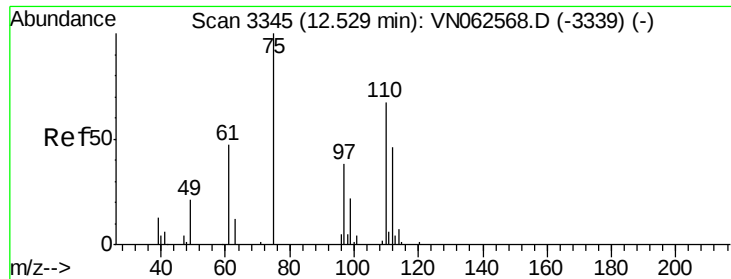


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

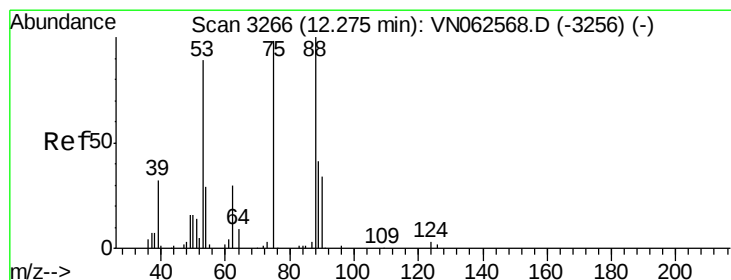
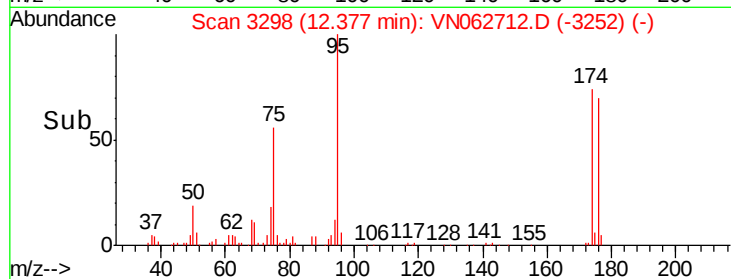
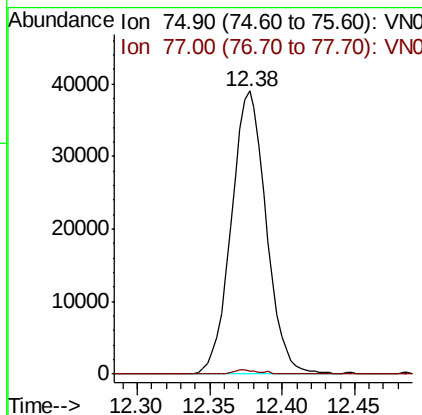
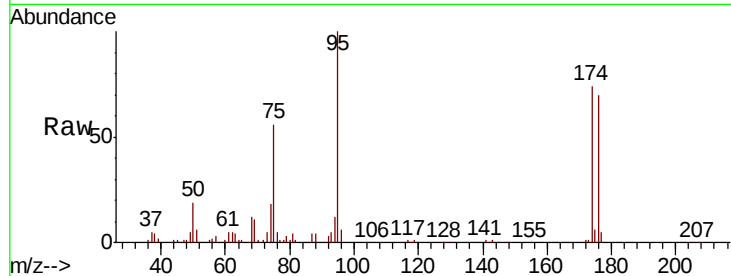




#76
 1,2,3-Trichloropropane
 Concen: 27.760 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062712.D
 Acq: 1 Aug 2020 2:47

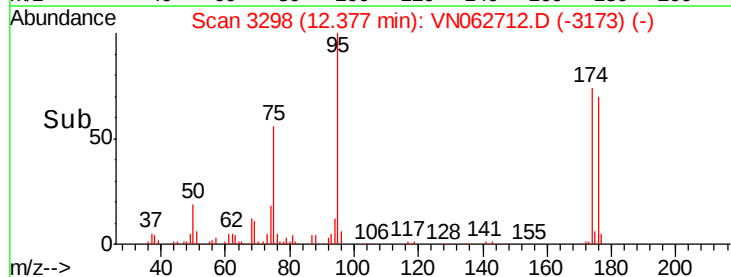
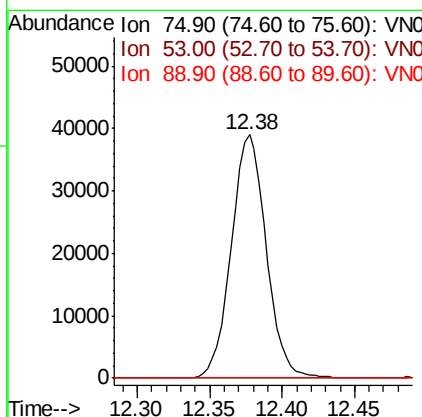
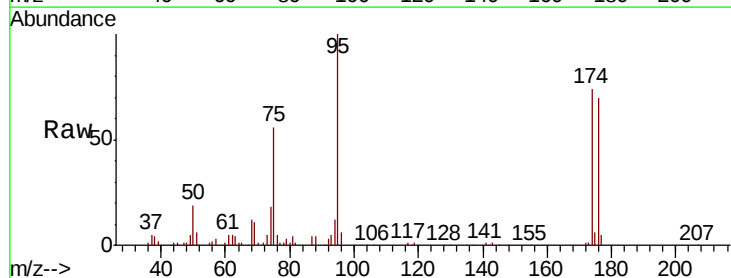
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-13

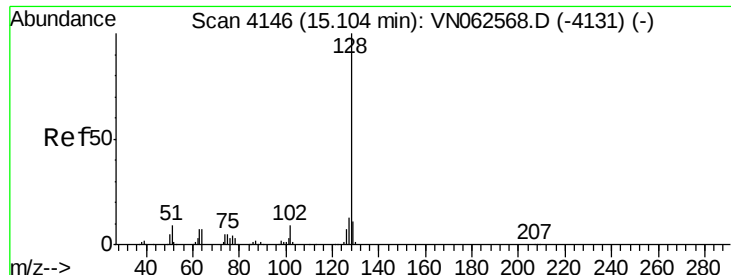
Tot Ion: 75 Resp: 65023
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.278 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN062712.D
 Acq: 1 Aug 2020 2:47

Tgt Ion: 75 Resp: 65023
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.4 113.0#
 89 0.0 34.5 51.7#





#95
Naphthalene
Concen: 4.038 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN062712.D
Acq: 1 Aug 2020 2:47

Instrument :
MSVOA_N
ClientSampleId :
TP-13

Tot Ion:128 Resp: 1226
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#

