

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061120\
 Data File : VN061756.D
 Acq On : 11 Jun 2020 18:47
 Operator : JC/MD
 Sample : L2988-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20200608

Quant Time: Jun 12 05:47:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

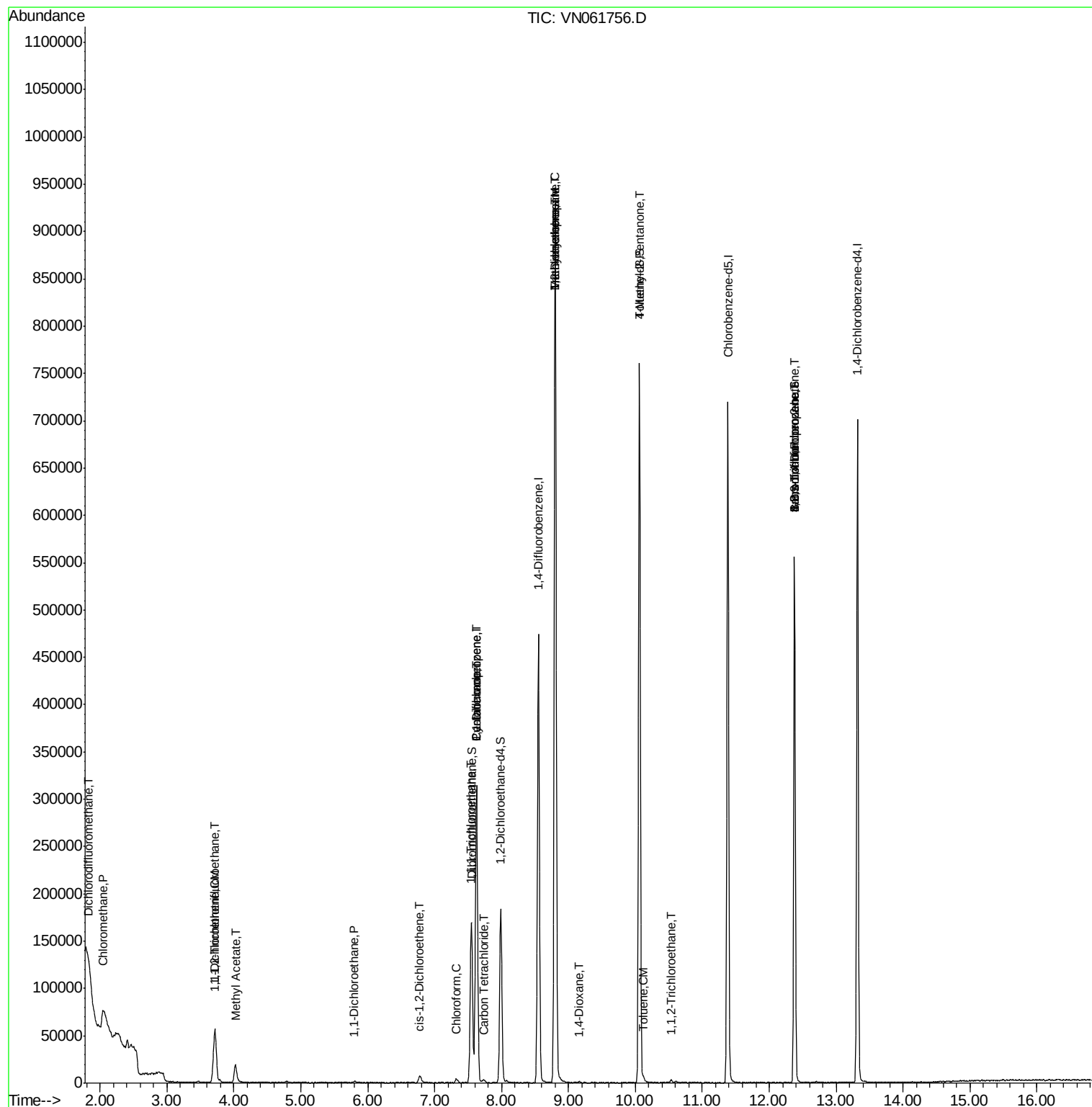
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	267693	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	458462	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	451630	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	200658	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	154695	48.50	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.00%	
35) Dibromofluoromethane	7.55	113	132489	56.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.94%	
50) Toluene-d8	10.06	98	555517	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	
62) 4-Bromofluorobenzene	12.38	95	190998	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.83	85	3623	2.293	ug/l	83
3) Chloromethane	2.03	50	1788	0.548	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.72	101	31243	12.203	ug/l	91
12) 1,1-Dichloroethene	3.70	96	6015	2.199	ug/l	85
16) Acetone	3.78	43	4666	Below Cal		94
18) Methyl Acetate	4.02	43	8715	3.018	ug/l #	46
20) Methylene Chloride	4.51	84	219	Below Cal	#	53
24) 1,1-Dichloroethane	5.80	63	3119	0.624	ug/l #	81
27) cis-1,2-Dichloroethene	6.77	96	2177	0.623	ug/l #	5
28) Bromochloromethane	7.32	49	116	Below Cal	#	3
30) Chloroform	7.32	83	4767	0.862	ug/l	95
31) Cyclohexane	7.63	56	4739	1.054	ug/l #	1
32) 1,1,1-Trichloroethane	7.54	97	1587	0.315	ug/l #	34
36) 1,1-Dichloropropene	7.63	75	17909	4.413	ug/l #	47
38) Carbon Tetrachloride	7.73	117	2426	0.620	ug/l	86
39) Methylcyclohexane	8.80	83	3958	0.791	ug/l #	1
44) Trichloroethene	8.80	130	362064	94.080	ug/l	96
45) 1,2-Dichloropropane	8.80	63	697	0.234	ug/l #	1
49) 1,4-Dioxane	9.16	88	1103	26.908	ug/l #	77
51) 4-Methyl-2-Pentanone	10.06	43	2315	0.699	ug/l #	1
52) Toluene	10.13	92	1770	0.217	ug/l	98
55) 1,1,2-Trichloroethane	10.54	97	1131	0.347	ug/l #	93
71) Bromoform	12.38	173	1006	0.373	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	91560	25.094	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	91560	64.171	ug/l #	15

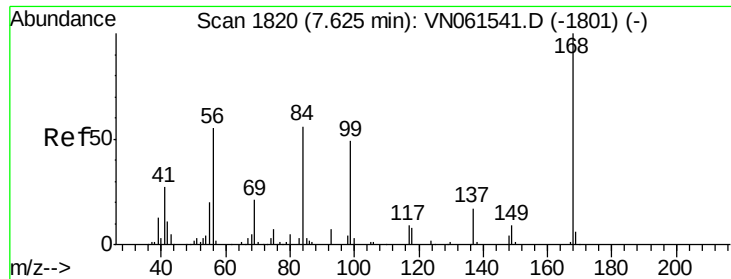
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN061120\
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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: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

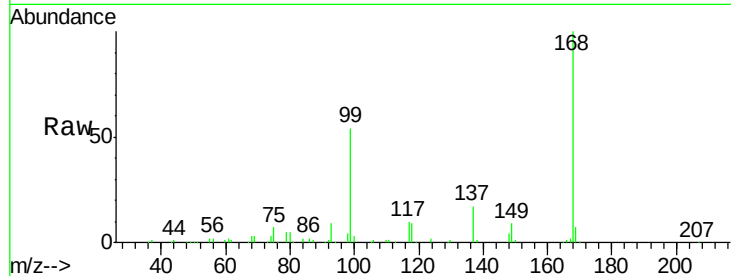
RE132D5-20200608

Tot Ion:168 Resp: 267693

Ion Ratio Lower Upper

168 100

99 54.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

120000

100000

80000

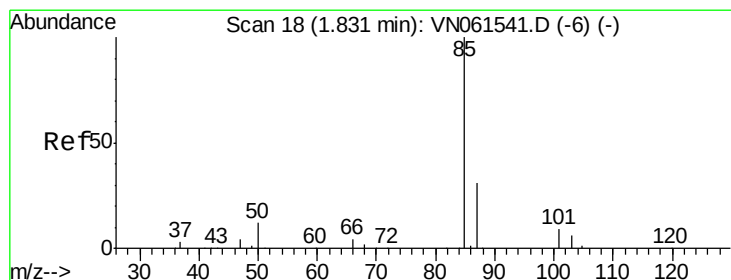
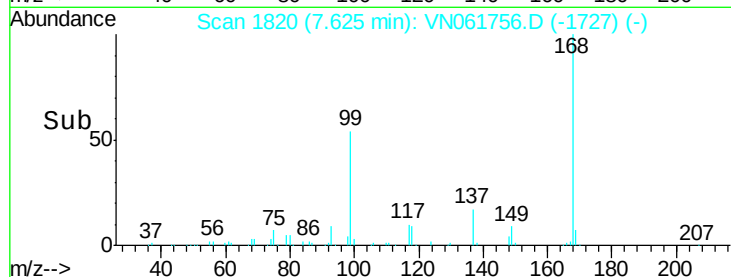
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#2

Dichlorodifluoromethane

Concen: 2.293 ug/l

RT: 1.83 min Scan# 19

Delta R.T. 0.00 min

Lab File: VN061756.D

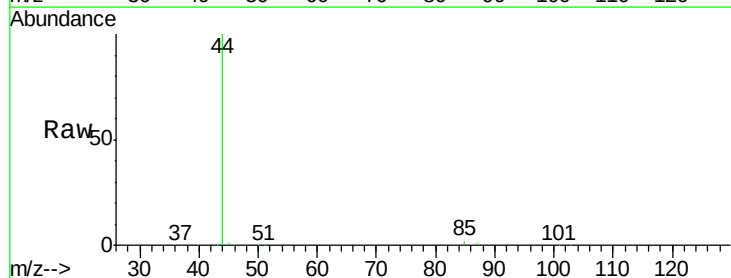
Acq: 11 Jun 2020 18:47

Tgt Ion: 85 Resp: 3623

Ion Ratio Lower Upper

85 100

87 40.8 15.6 46.8



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.83

3000

2500

2000

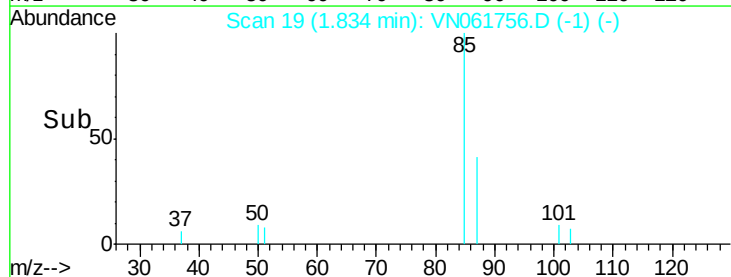
1500

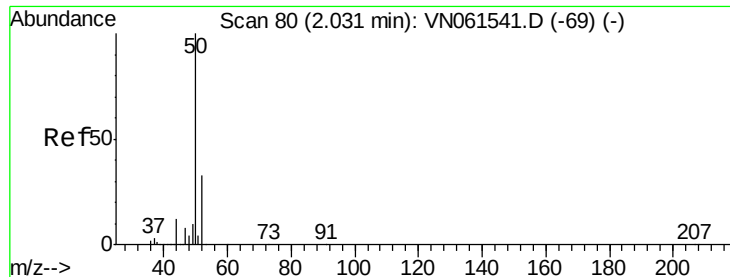
1000

500

0

Time--> 1.80 1.85





#3

Chloromethane

Concen: 0.548 ug/l

RT: 2.03 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

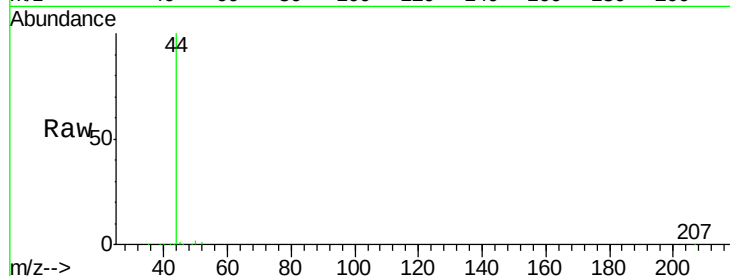
RE132D5-20200608

Tot Ion: 50 Resp: 1788

Ion Ratio Lower Upper

50 100

52 33.2 26.7 40.1



Abundance Ion 49.90 (49.60 to 50.60): VN061541.D (-69) (-)

Ion 51.90 (51.60 to 52.60): VN061541.D (-69) (-)

2.03

1500

1000

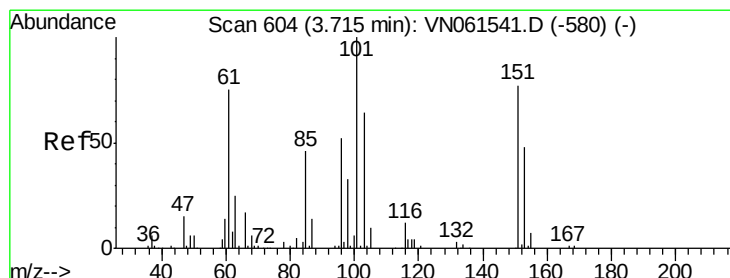
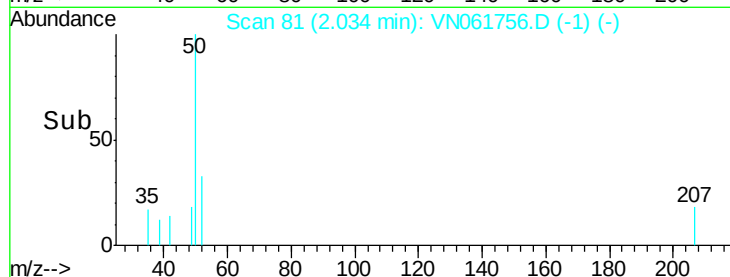
500

0

Time-->

2.00

2.05



#9

1,1,2-Trichlorotrifluoroethane

Concen: 12.203 ug/l

RT: 3.72 min Scan# 605

Delta R.T. 0.00 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

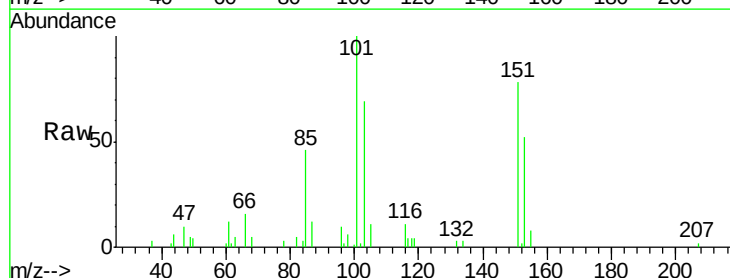
Tgt Ion: 101 Resp: 31243

Ion Ratio Lower Upper

101 100

85 47.8 35.2 52.8

151 86.2 61.0 91.6



Abundance Ion 100.90 (100.60 to 101.60): VN061541.D (-580) (-)

Ion 84.90 (84.60 to 85.60): VN061541.D (-580) (-)

Ion 150.80 (150.50 to 151.50): VN061541.D (-580) (-)

3.72

15000

10000

5000

0

Time-->

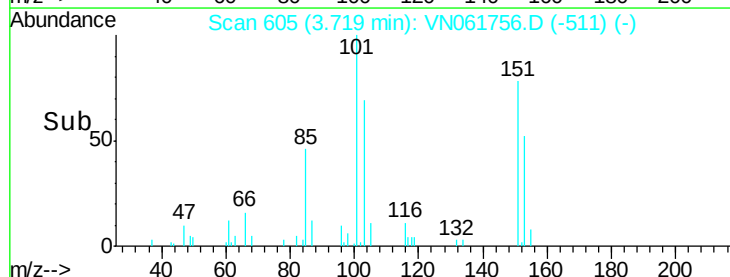
3.60

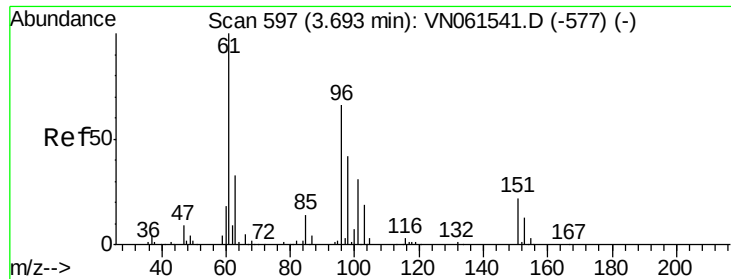
3.65

3.70

3.75

3.80





#12

1,1-Dichloroethene

Concen: 2.199 ug/l

RT: 3.70 min Scan# 598

Delta R.T. 0.00 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20200608

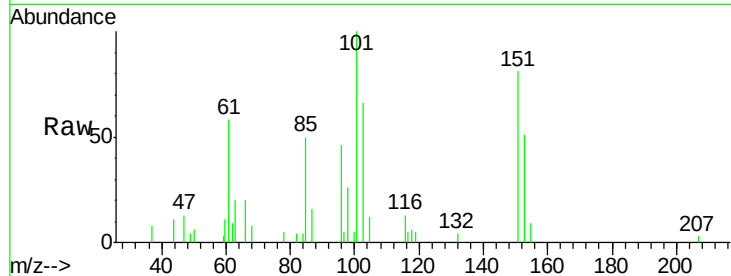
Tot Ion: 96 Resp: 6015

Ion Ratio Lower Upper

96 100

61 127.8 120.5 180.7

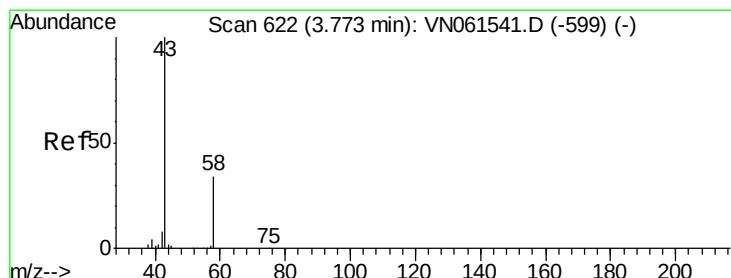
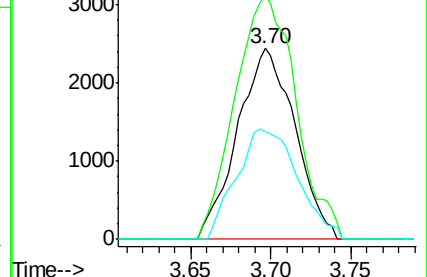
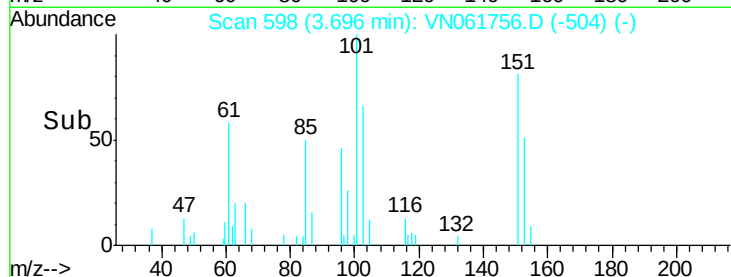
98 56.4 50.8 76.2



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



#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN061756.D

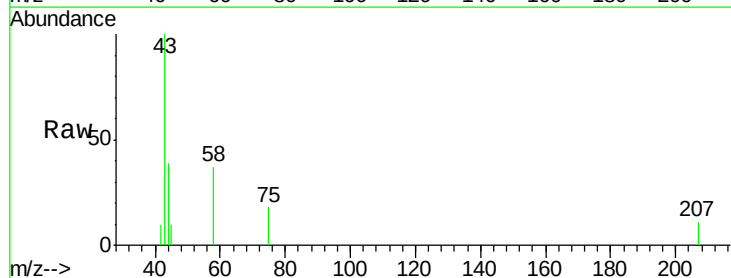
Acq: 11 Jun 2020 18:47

Tgt Ion: 43 Resp: 4666

Ion Ratio Lower Upper

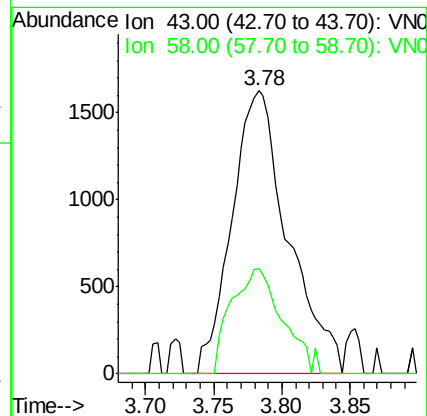
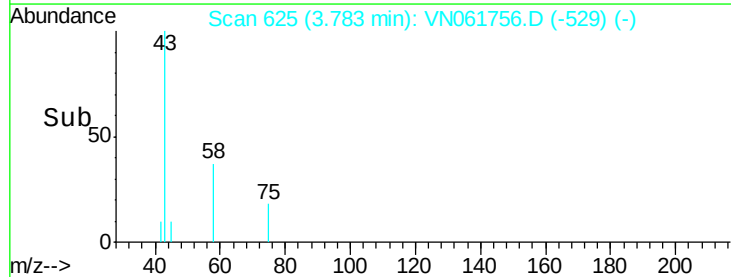
43 100

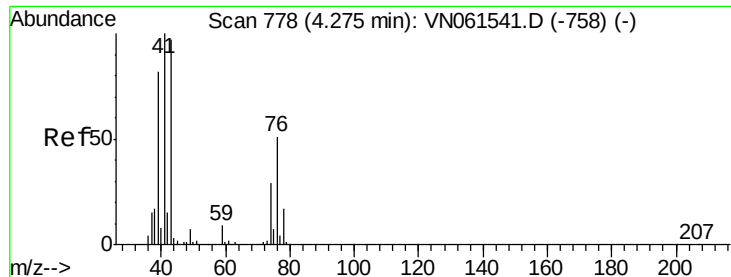
58 37.4 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

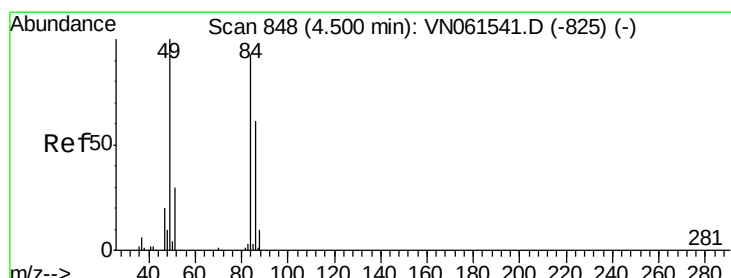
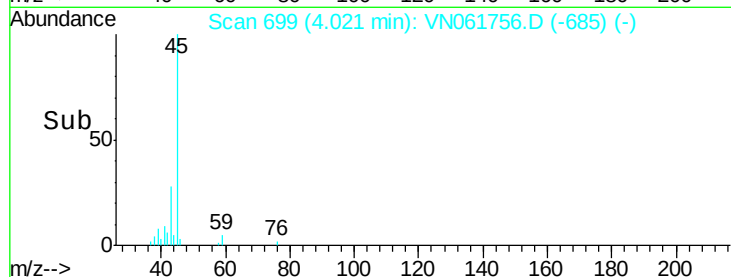
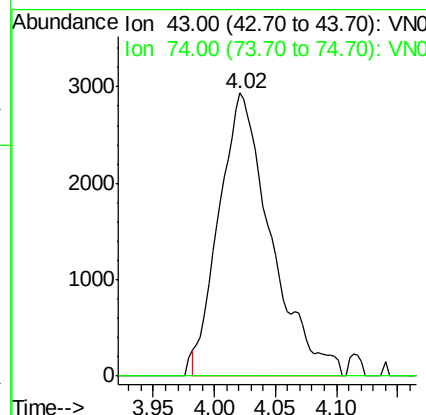
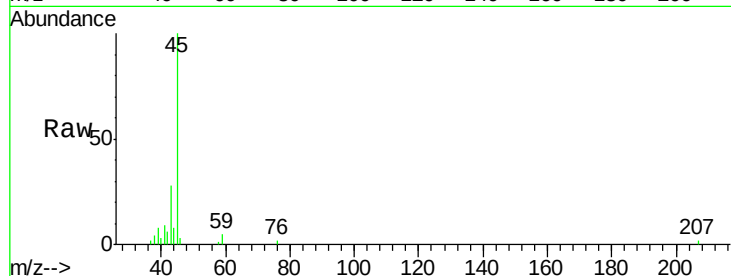




#18
Methyl Acetate
Concen: 3.018 ug/l
RT: 4.02 min Scan# 699
Delta R.T. -0.25 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

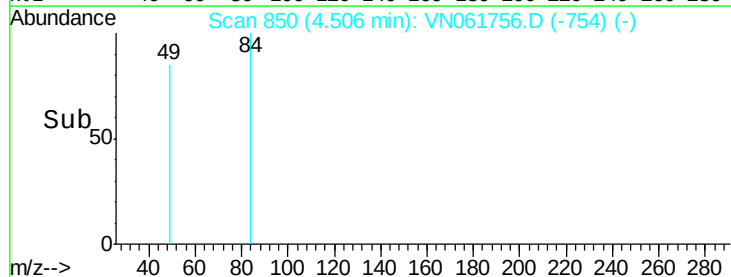
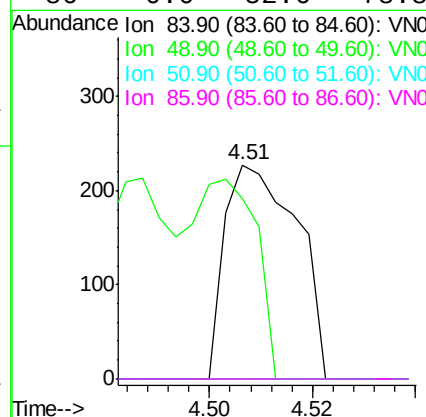
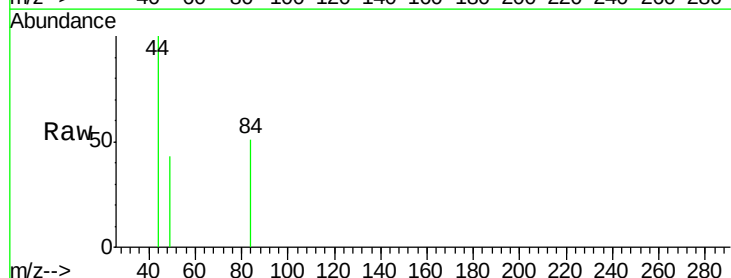
Instrument :
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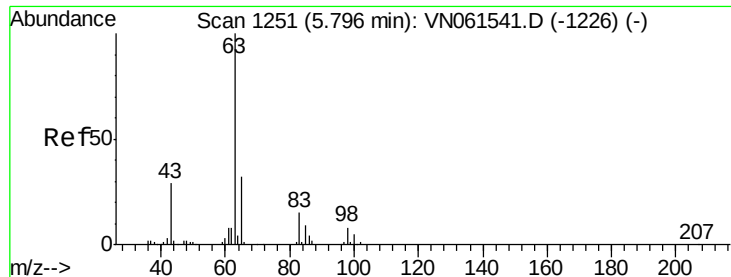
Tot Ion: 43 Resp: 8715
Ion Ratio Lower Upper
43 100
74 0.0 23.2 34.8#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

Tgt Ion: 84 Resp: 219
Ion Ratio Lower Upper
84 100
49 84.6 85.8 128.8#
51 0.0 26.2 39.2#
86 0.0 52.6 78.8#

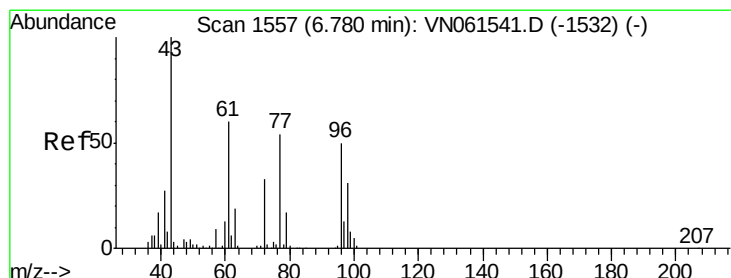
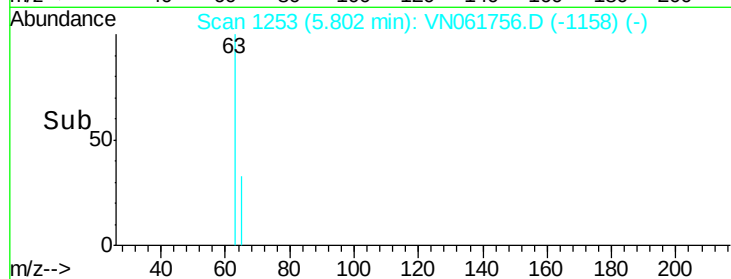
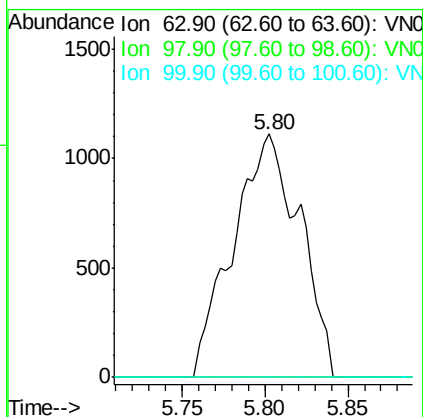
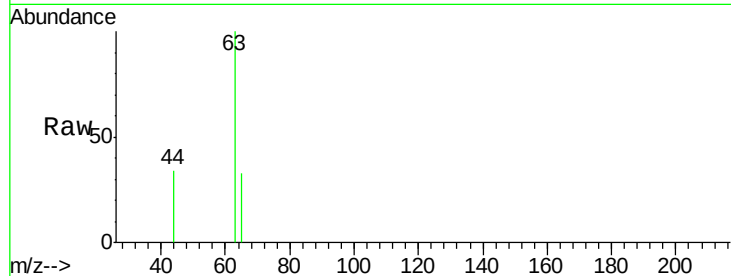




#24
 1,1-Dichloroethane
 Concen: 0.624 ug/l
 RT: 5.80 min Scan# 1253
 Delta R.T. 0.01 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

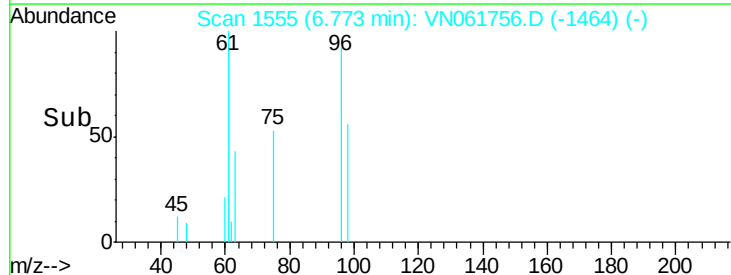
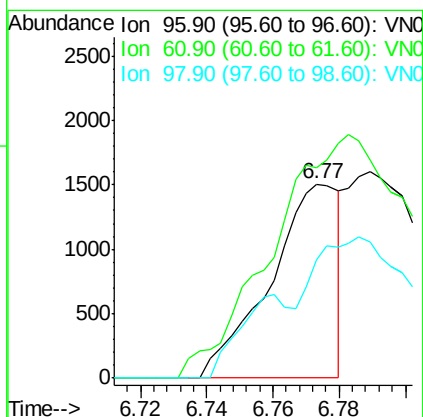
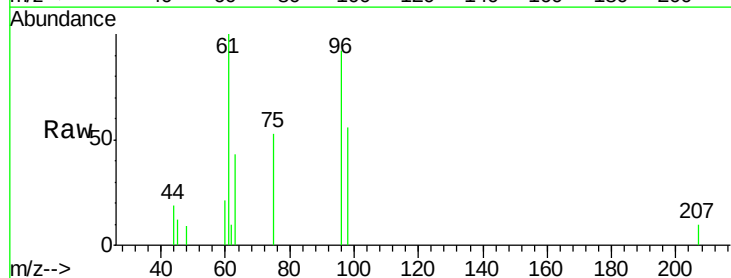
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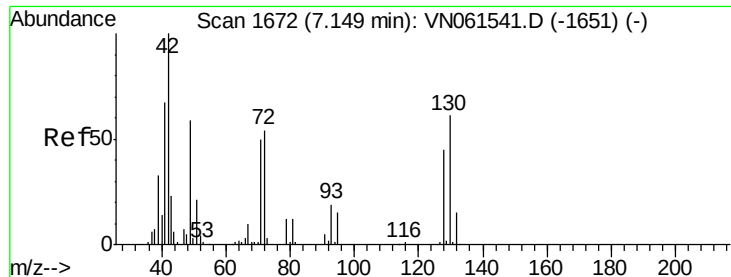
Tot Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.4#
100	0.0	2.5	7.6#



#27
 cis-1,2-Dichloroethene
 Concen: 0.623 ug/l
 RT: 6.77 min Scan# 1555
 Delta R.T. -0.01 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

Tgt Ion	Ratio	Lower	Upper
96	100		
61	257.2	0.0	252.2#
98	110.2	0.0	129.2

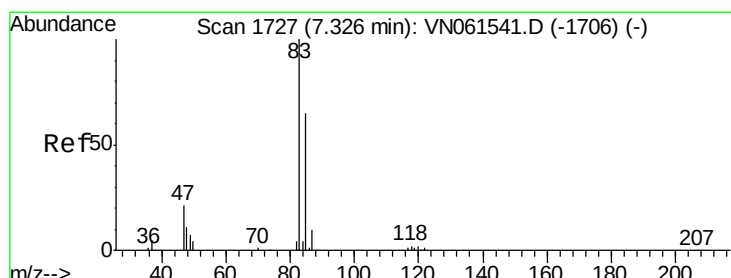
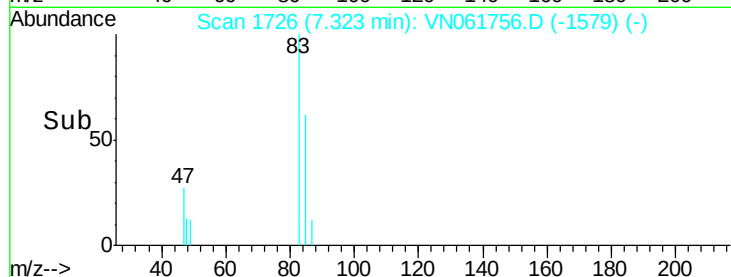
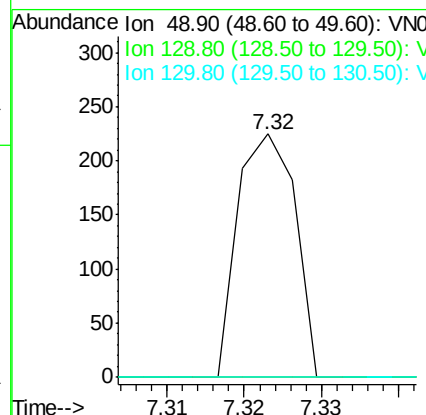
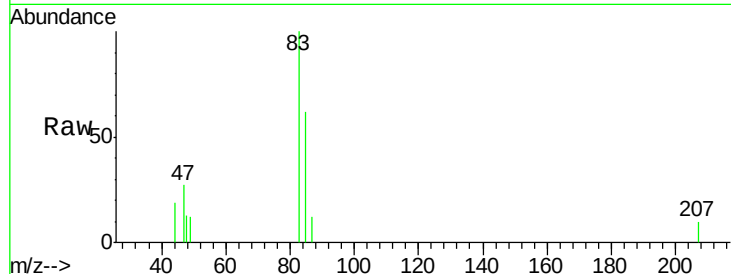




#28
Bromochloromethane
Concen: Below Cal
RT: 7.32 min Scan# 1726
Delta R.T. 0.17 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

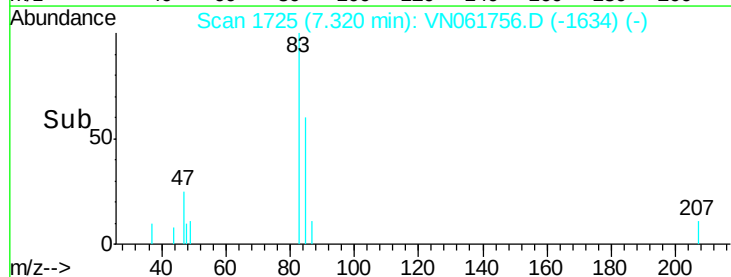
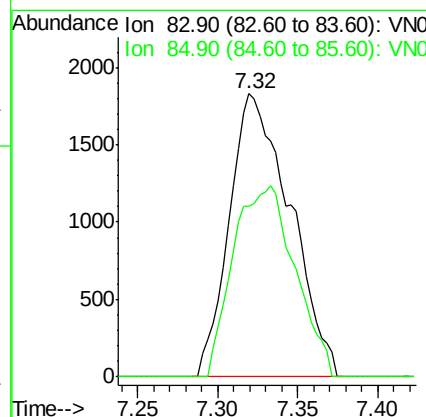
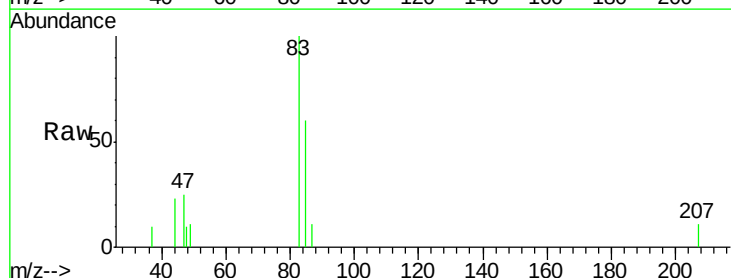
Instrument :
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RE132D5-20200608

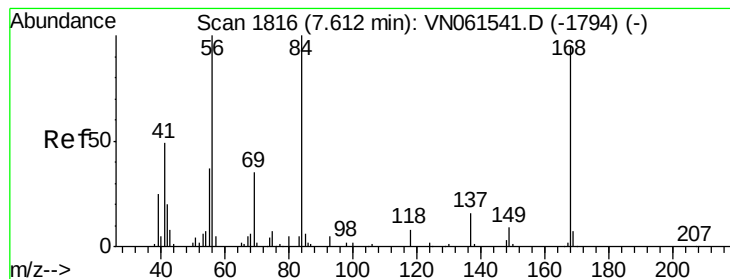
Tot Ion: 49 Resp: 116
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.8
130 0.0 78.8 118.2#



#30
Chloroform
Concen: 0.862 ug/l
RT: 7.32 min Scan# 1725
Delta R.T. -0.01 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

Tgt Ion: 83 Resp: 4767
Ion Ratio Lower Upper
83 100
85 60.3 51.7 77.5





#31

Cyclohexane

Concen: 1.054 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20200608

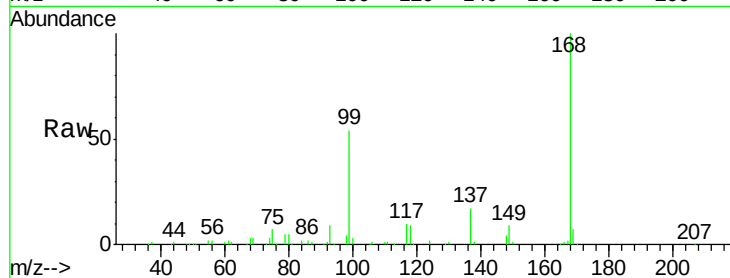
Tot Ion: 56 Resp: 4739

Ion Ratio Lower Upper

56 100

69 190.0 27.8 41.8#

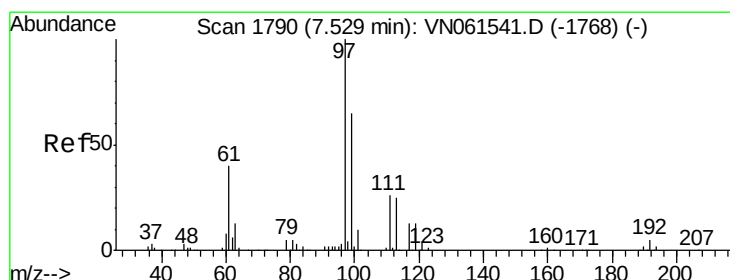
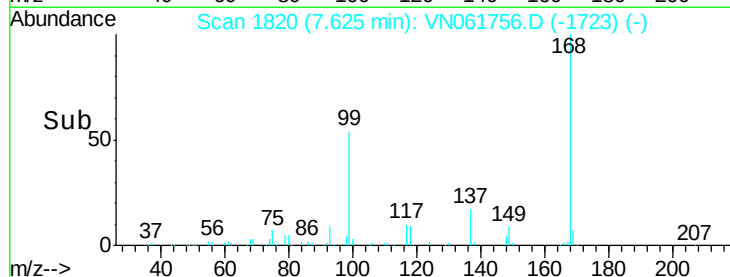
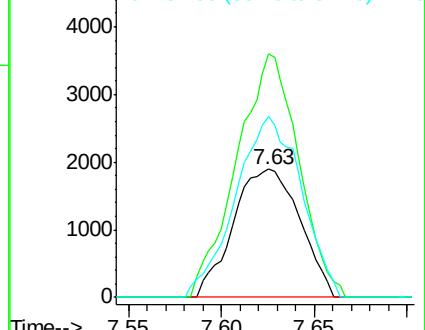
84 140.8 79.9 119.9#



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: 0.315 ug/l

RT: 7.54 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

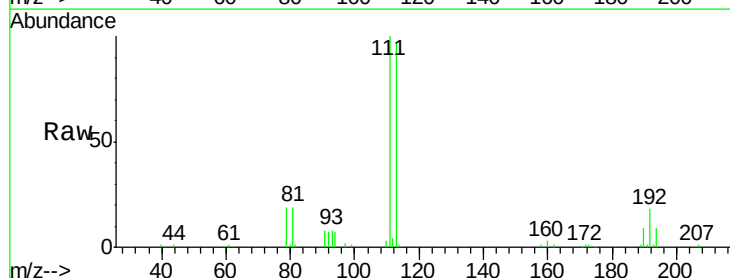
Tgt Ion: 97 Resp: 1587

Ion Ratio Lower Upper

97 100

99 0.0 51.4 77.0#

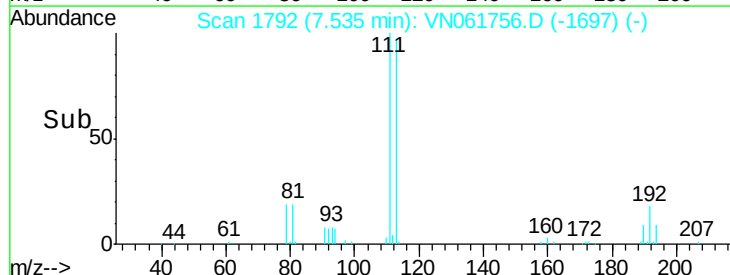
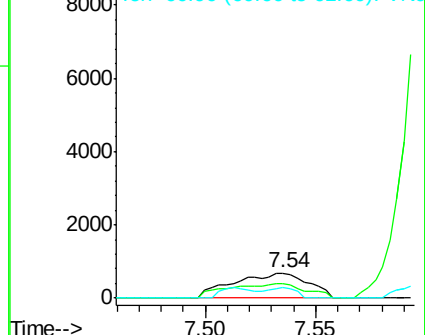
61 14.9 31.4 47.0#

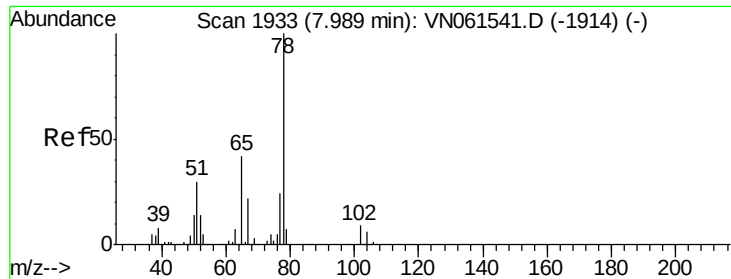


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

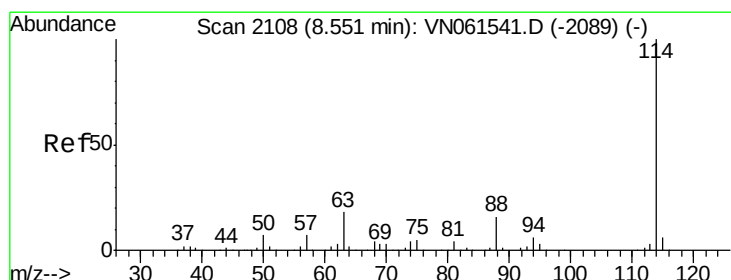
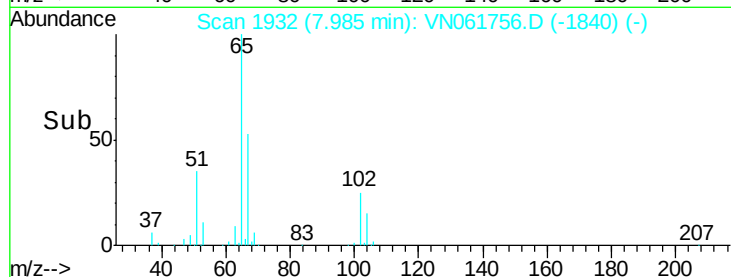
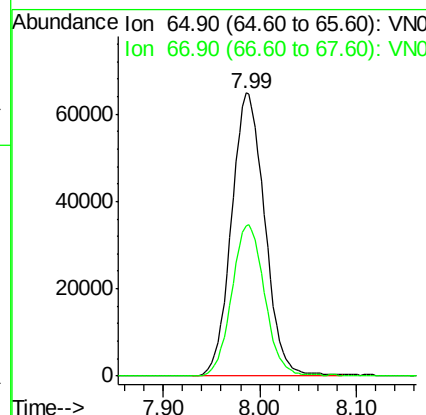
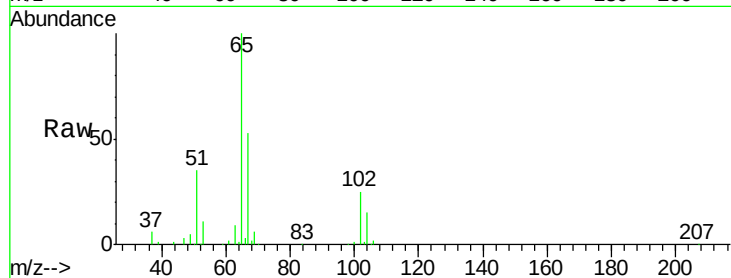




#33
 1,2-Dichloroethane-d4
 Concen: 48.503 ug/l
 RT: 7.99 min Scan# 1932
 Delta R.T. -0.00 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

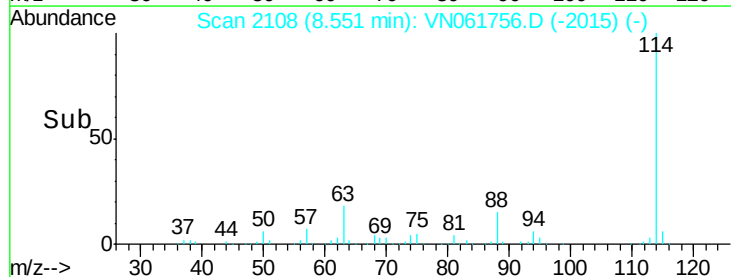
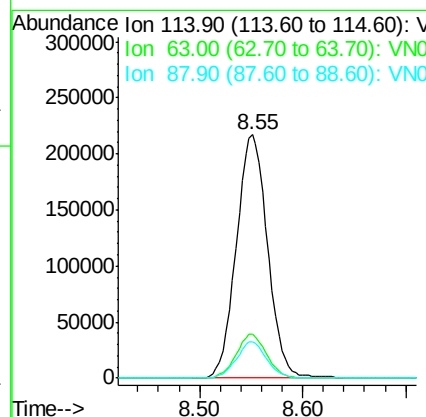
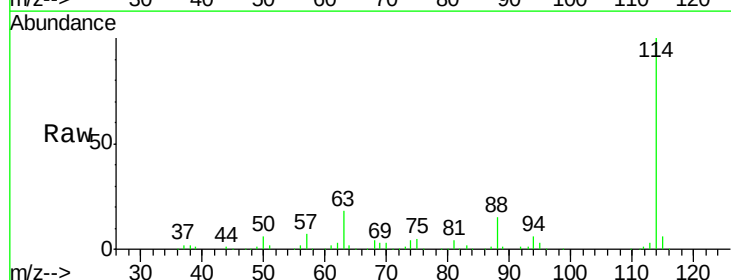
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20200608

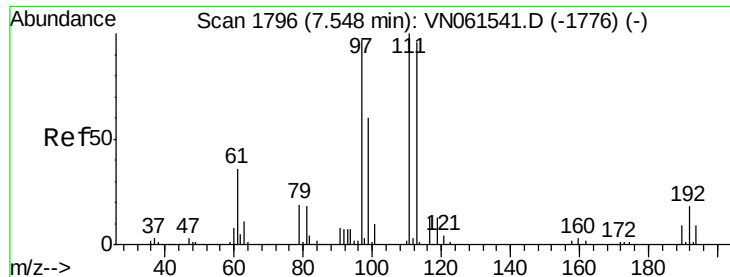
Tot Ion: 65 Resp: 154695
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

Tgt Ion: 114 Resp: 458462
 Ion Ratio Lower Upper
 114 100
 63 17.9 0.0 35.8
 88 14.9 0.0 31.0

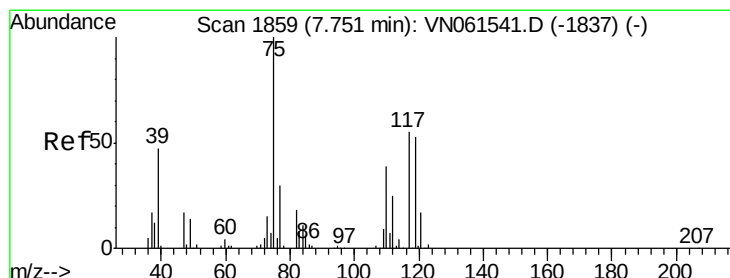
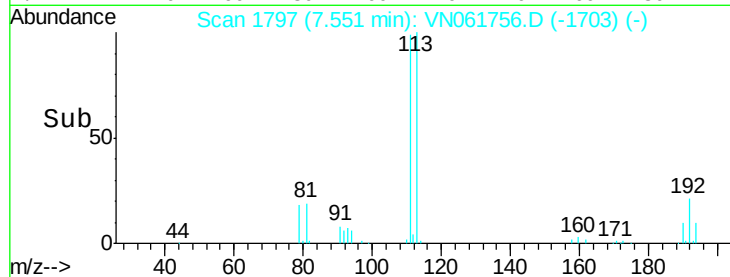
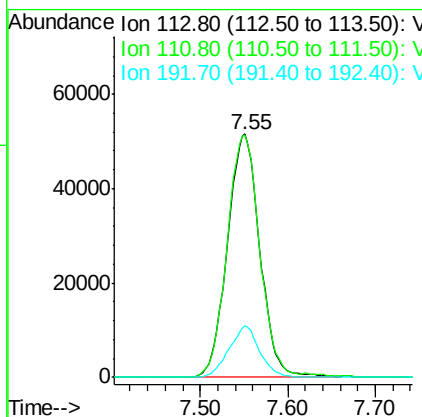
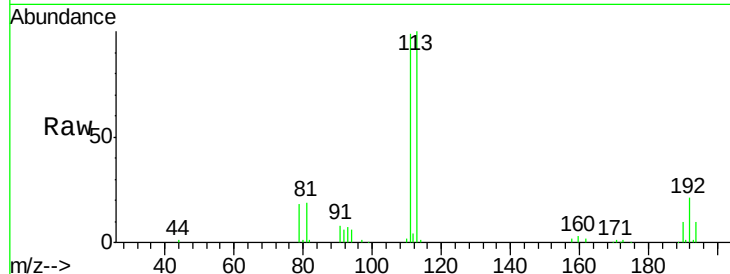




#35
 Dibromofluoromethane
 Concen: 56.968 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

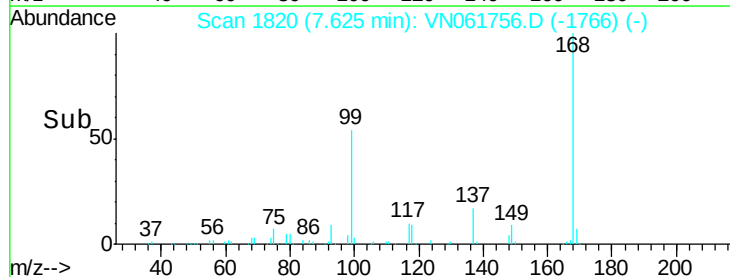
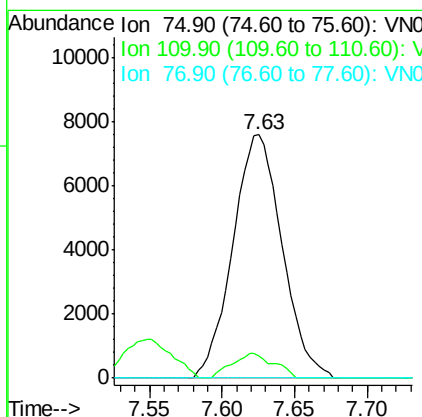
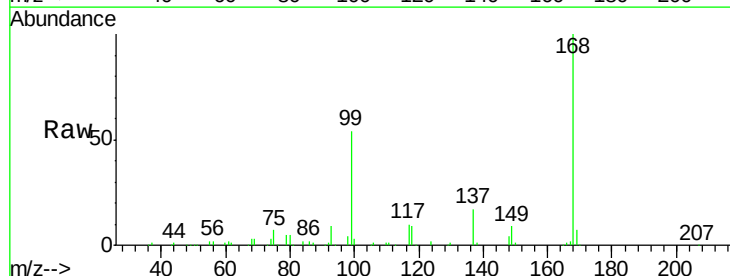
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20200608

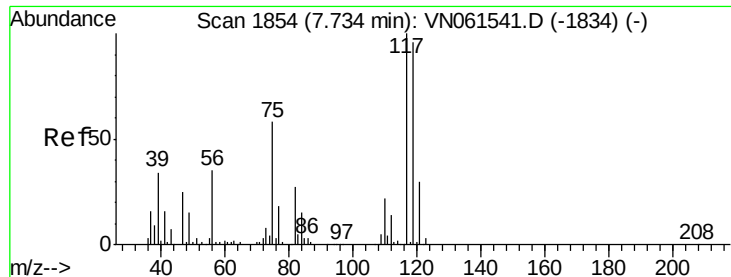
Tot Ion:113 Resp: 132489
 Ion Ratio Lower Upper
 113 100
 111 99.6 83.4 125.0
 192 20.0 15.4 23.2



#36
 1,1-Dichloropropene
 Concen: 4.413 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

Tgt Ion: 75 Resp: 17909
 Ion Ratio Lower Upper
 75 100
 110 8.6 19.5 58.5#
 77 0.0 24.7 37.1#

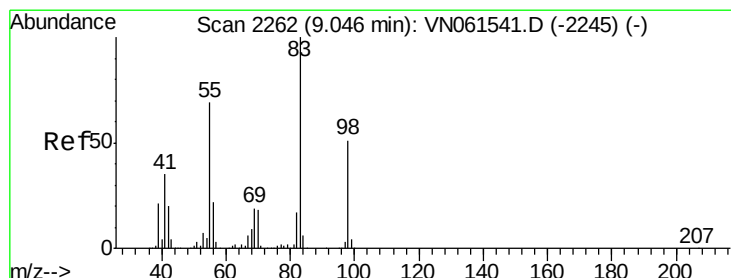
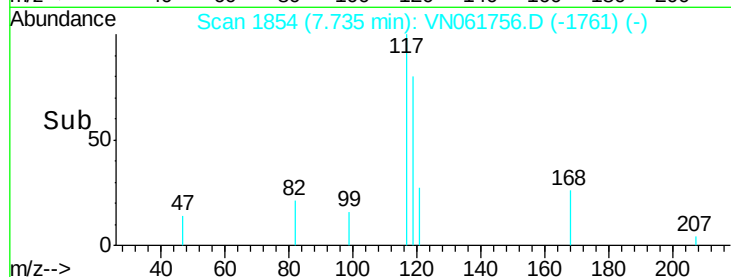
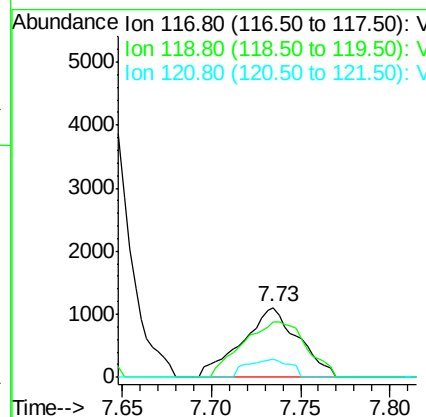
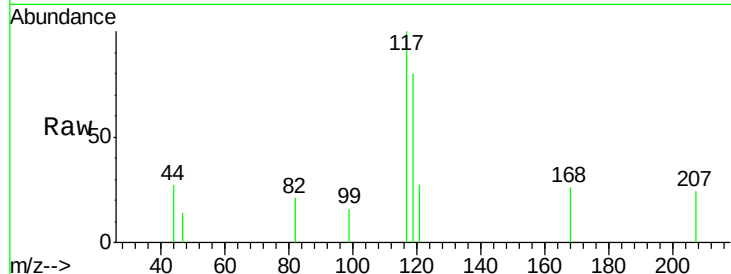




#38
Carbon Tetrachloride
Concen: 0.620 ug/l
RT: 7.73 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

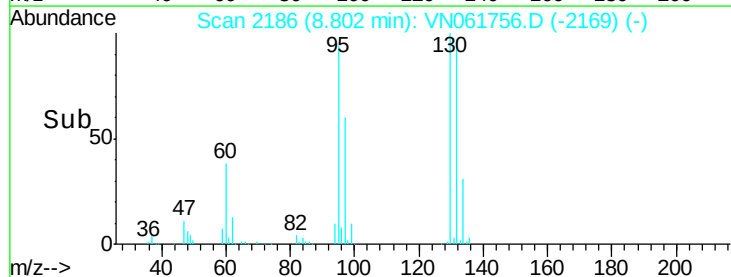
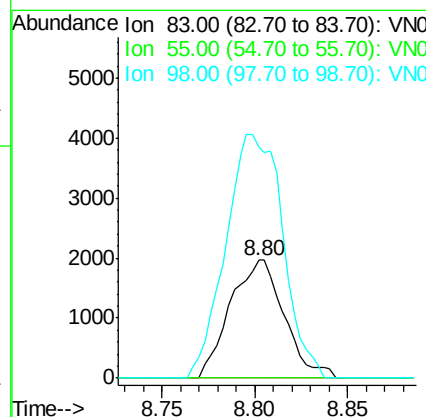
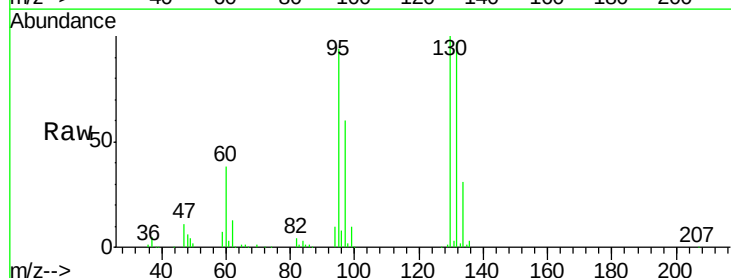
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20200608

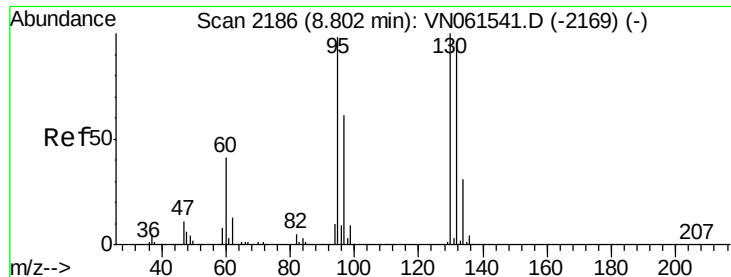
Tot Ion:117 Resp: 2426
Ion Ratio Lower Upper
117 100
119 79.8 76.5 114.7
121 27.0 24.1 36.1



#39
Methylcyclohexane
Concen: 0.791 ug/l
RT: 8.80 min Scan# 2186
Delta R.T. -0.24 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

Tgt Ion: 83 Resp: 3958
Ion Ratio Lower Upper
83 100
55 0.0 54.9 82.3#
98 195.8 41.0 61.4#





#44

Trichloroethene

Concen: 94.080 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. 0.00 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

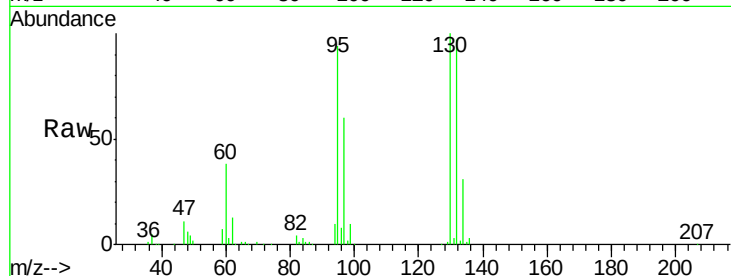
RE132D5-20200608

Tot Ion:130 Resp: 362064

Ion Ratio Lower Upper

130 100

95 94.1 0.0 196.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0

8.80

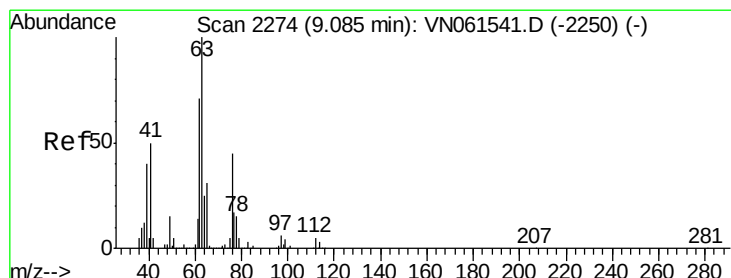
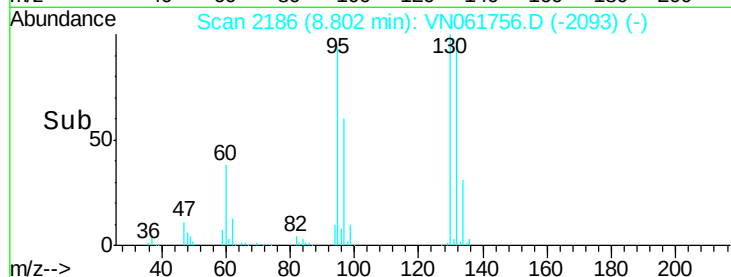
150000

100000

50000

0

Time-->



#45

1,2-Dichloropropane

Concen: 0.234 ug/l

RT: 8.80 min Scan# 2185

Delta R.T. -0.29 min

Lab File: VN061756.D

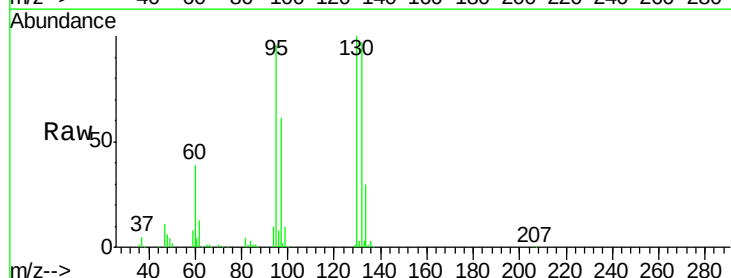
Acq: 11 Jun 2020 18:47

Tgt Ion: 63 Resp: 697

Ion Ratio Lower Upper

63 100

65 305.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

8.80

2500

2000

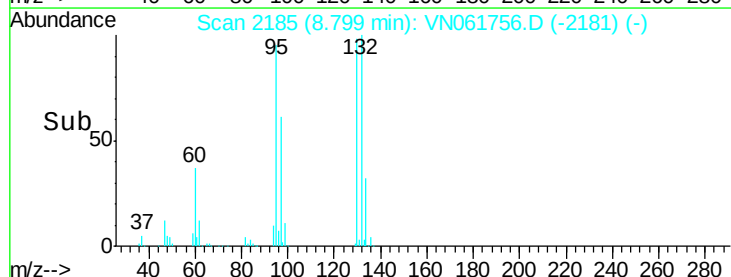
1500

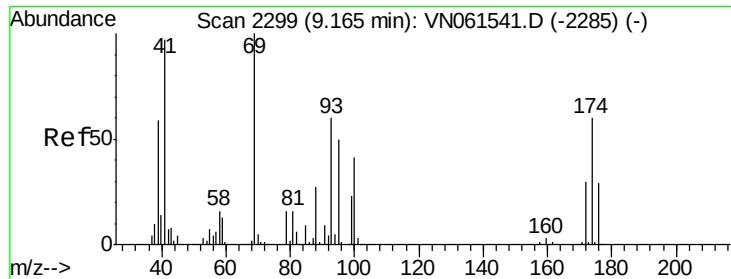
1000

500

0

Time-->

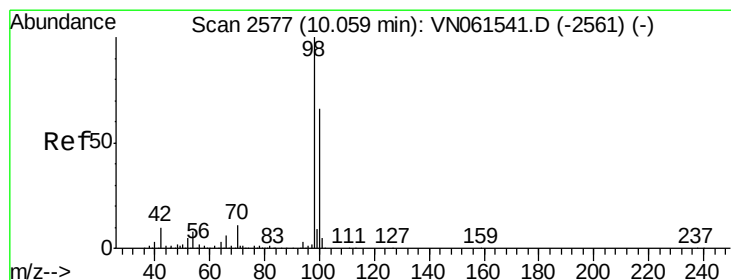
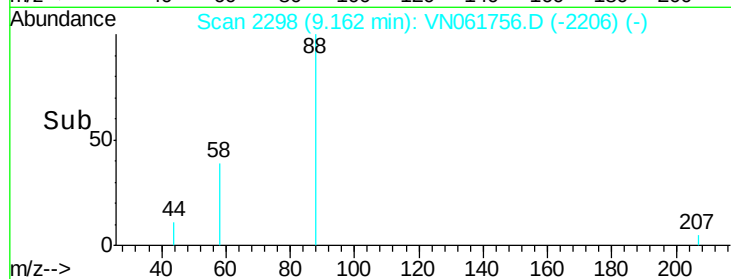
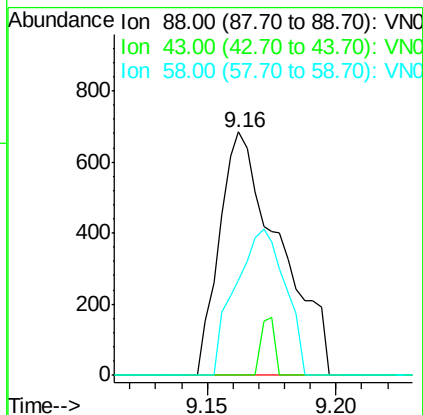
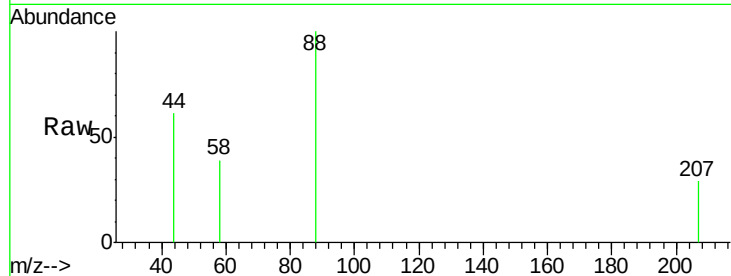




#49
1,4-Dioxane
Concen: 26.908 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.00 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

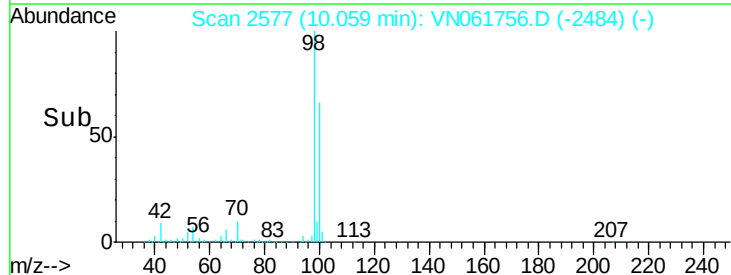
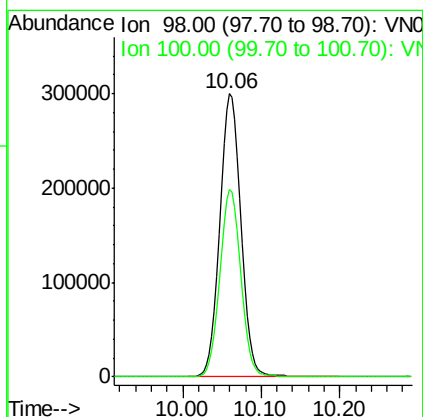
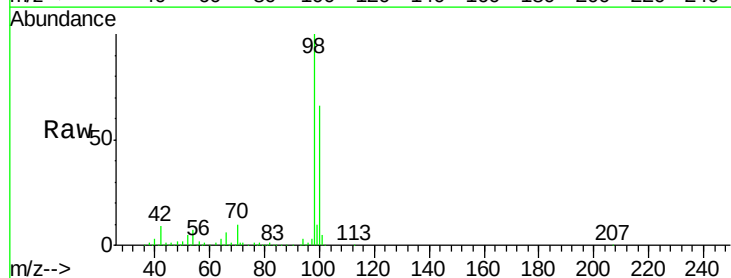
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20200608

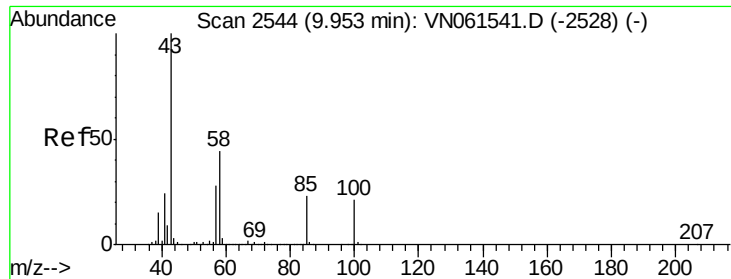
Tot Ion: 88 Resp: 1103
Ion Ratio Lower Upper
88 100
43 5.5 23.1 34.7#
58 50.2 48.3 72.5



#50
Toluene-d8
Concen: 51.544 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. 0.00 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

Tgt Ion: 98 Resp: 555517
Ion Ratio Lower Upper
98 100
100 65.4 52.8 79.2

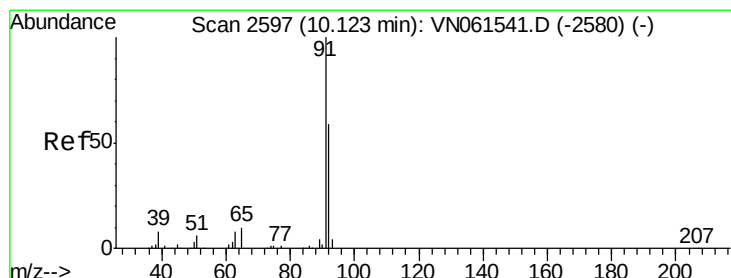
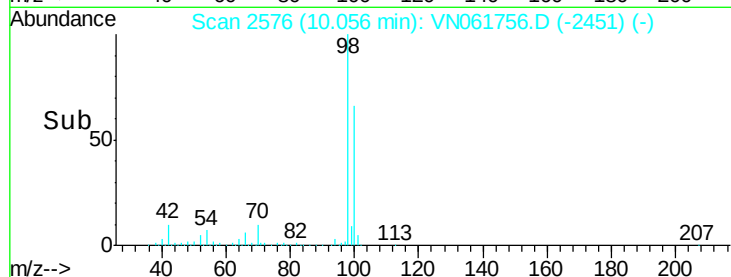
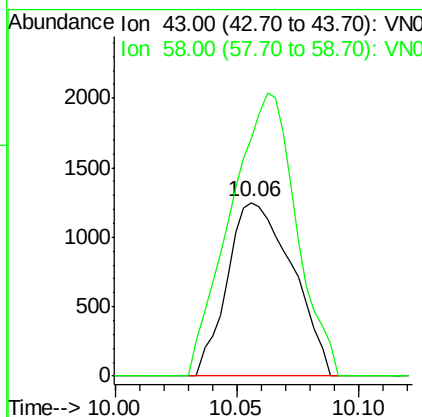
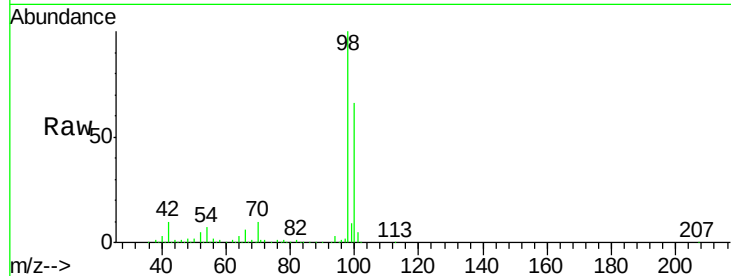




#51
 4-Methyl-2-Pentanone
 Concen: 0.699 ug/l
 RT: 10.06 min Scan# 2576
 Delta R.T. 0.10 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

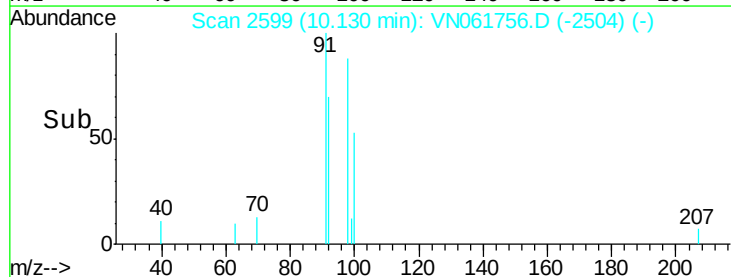
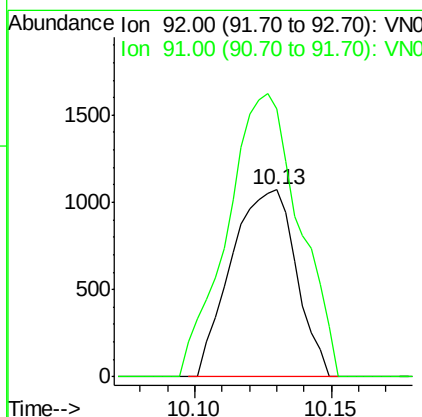
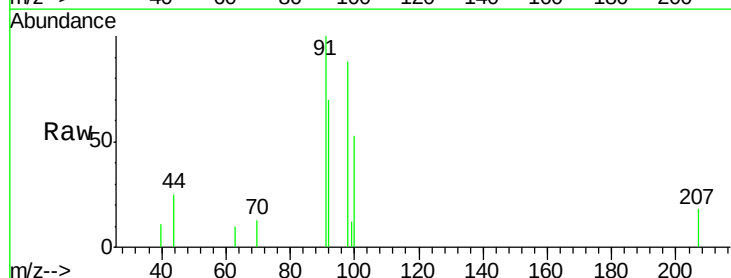
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20200608

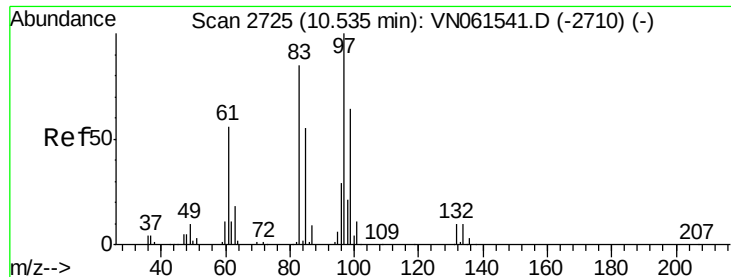
Tot Ion: 43 Resp: 2315
 Ion Ratio Lower Upper
 43 100
 58 164.7 35.0 52.6#



#52
 Toluene
 Concen: 0.217 ug/l
 RT: 10.13 min Scan# 2599
 Delta R.T. 0.01 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

Tgt Ion: 92 Resp: 1770
 Ion Ratio Lower Upper
 92 100
 91 167.6 136.4 204.6

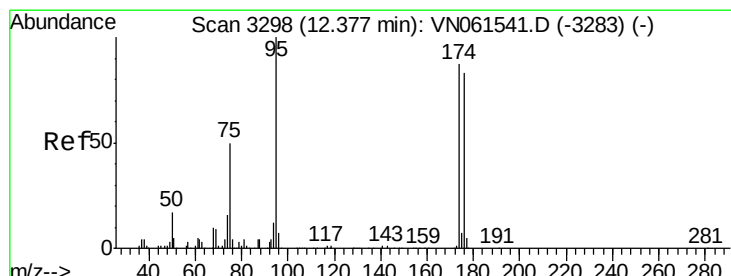
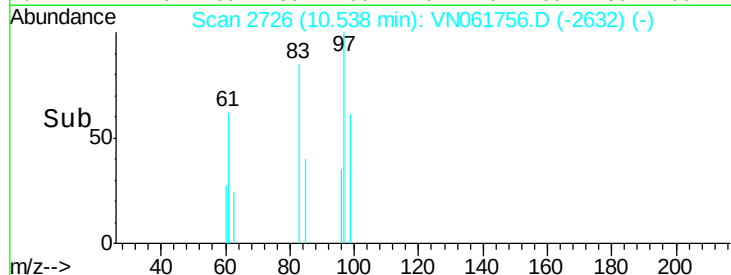
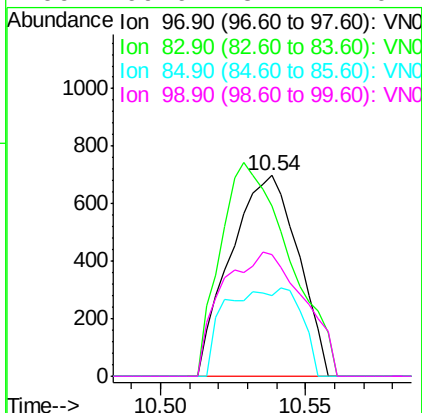
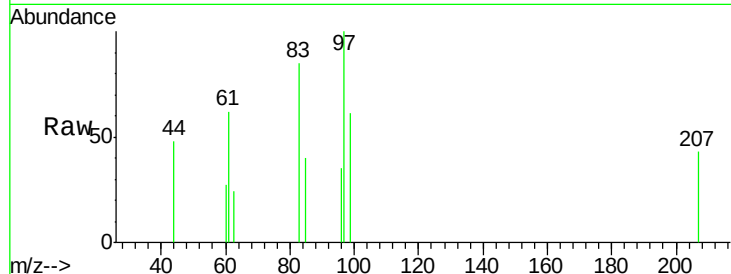




#55
 1,1,2-Trichloroethane
 Concen: 0.347 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.00 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

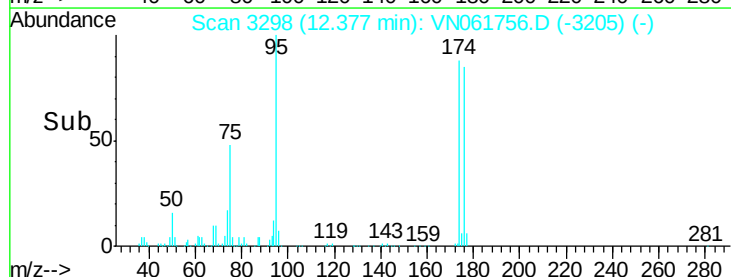
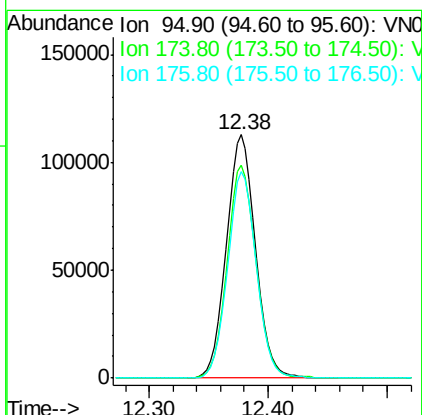
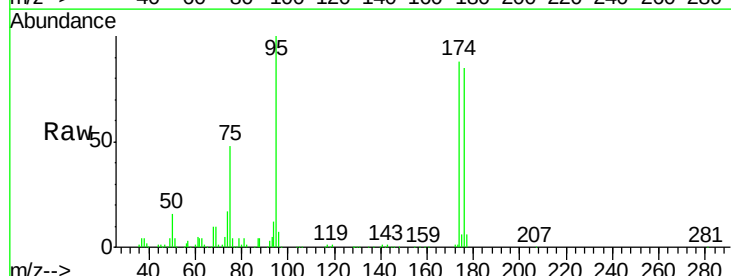
Instrument :
 MSVOA_N
 ClientSampleId :
 RE132D5-20200608

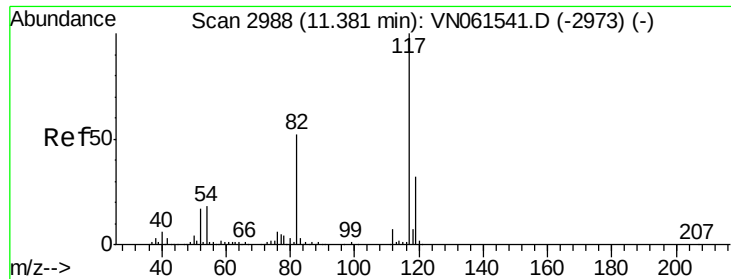
Tot Ion: 97 Resp: 1131
 Ion Ratio Lower Upper
 97 100
 83 84.7 68.1 102.1
 85 40.4 44.1 66.1#
 99 60.6 51.1 76.7



#62
 4-Bromofluorobenzene
 Concen: 48.575 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061756.D
 Acq: 11 Jun 2020 18:47

Tgt Ion: 95 Resp: 190998
 Ion Ratio Lower Upper
 95 100
 174 87.1 0.0 172.8
 176 83.6 0.0 164.8

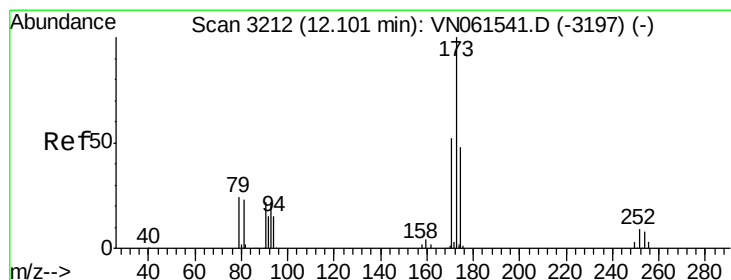
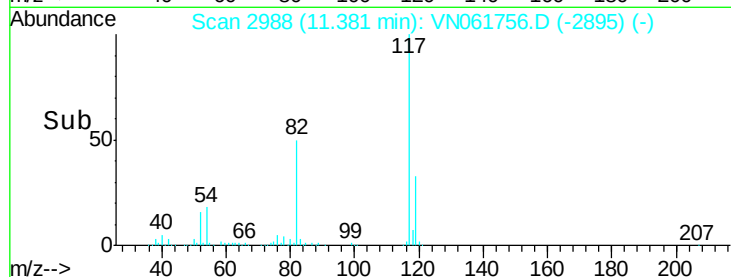
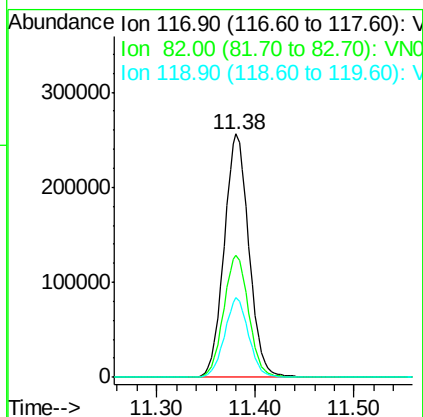
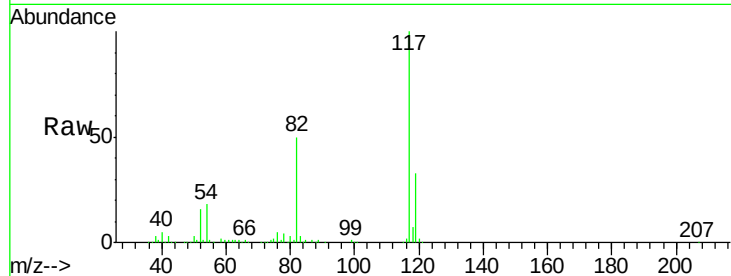




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

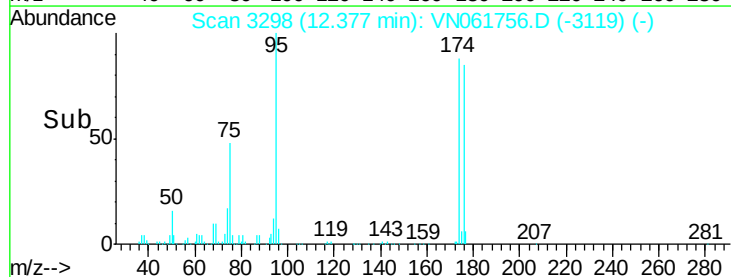
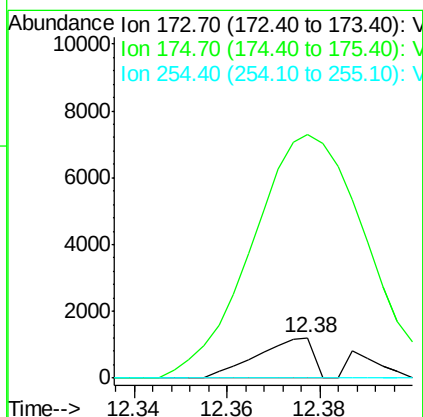
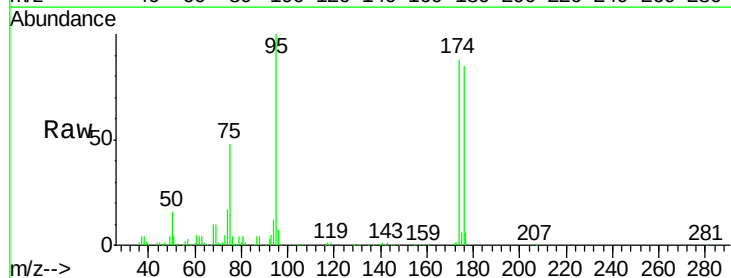
Instrument :
MSVOA_N
ClientSampleId :
RE132D5-20200608

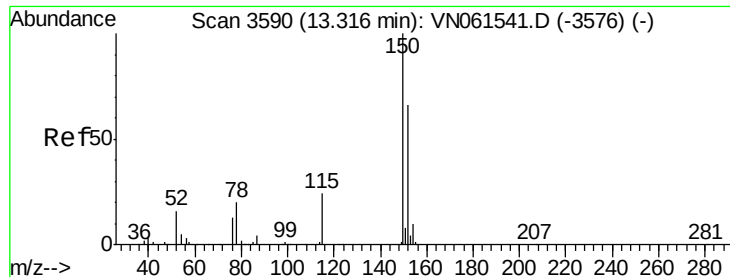
Tot Ion:117 Resp: 451630
Ion Ratio Lower Upper
117 100
82 50.3 41.5 62.3
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.373 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061756.D
Acq: 11 Jun 2020 18:47

Tgt Ion:173 Resp: 1006
Ion Ratio Lower Upper
173 100
175 1033.8 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20200608

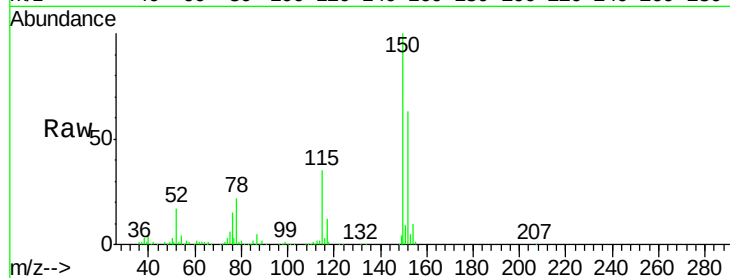
Tot Ion:152 Resp: 200658

Ion Ratio Lower Upper

152 100

115 56.7 28.0 84.0

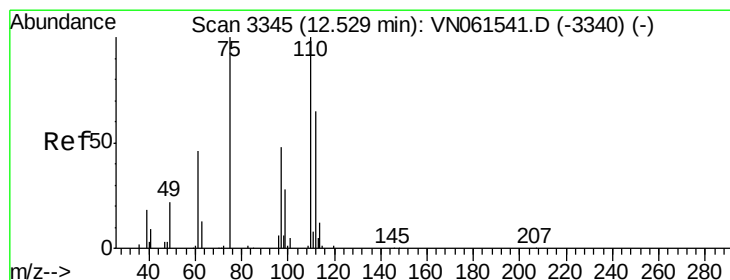
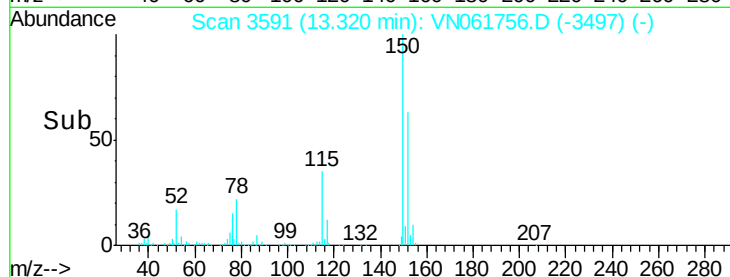
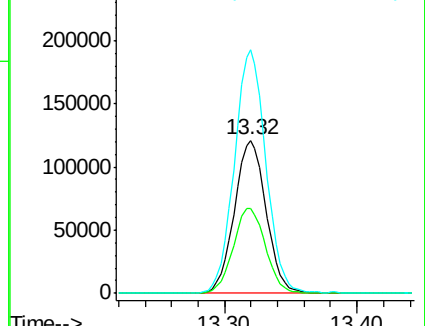
150 158.1 0.0 344.0



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: 25.094 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061756.D

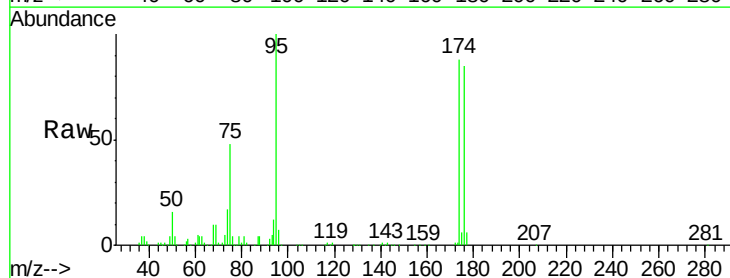
Acq: 11 Jun 2020 18:47

Tgt Ion: 75 Resp: 91560

Ion Ratio Lower Upper

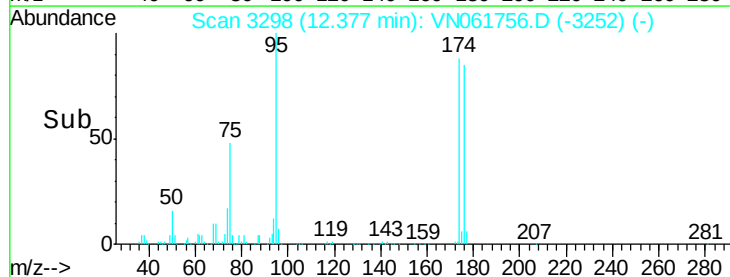
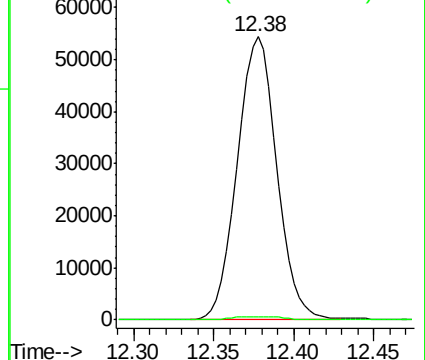
75 100

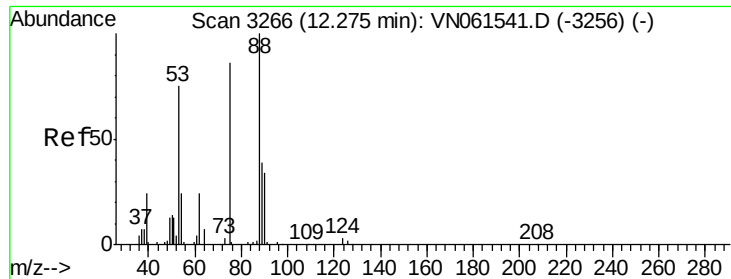
77 0.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 64.171 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061756.D

Acq: 11 Jun 2020 18:47

Instrument :

MSVOA_N

ClientSampleId :

RE132D5-20200608

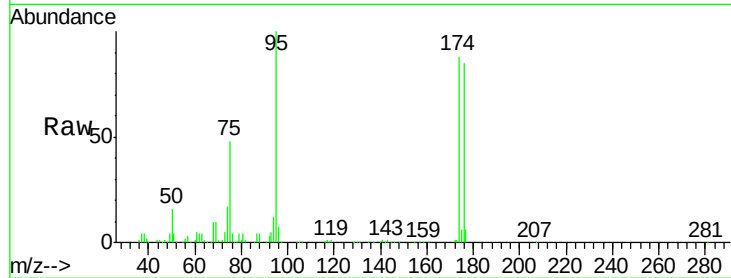
Tot Ion: 75 Resp: 91560

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

