

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051920\
 Data File : VN061476.D
 Acq On : 19 May 2020 12:05
 Operator : JC/MD
 Sample : VN0519WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 20 02:48:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

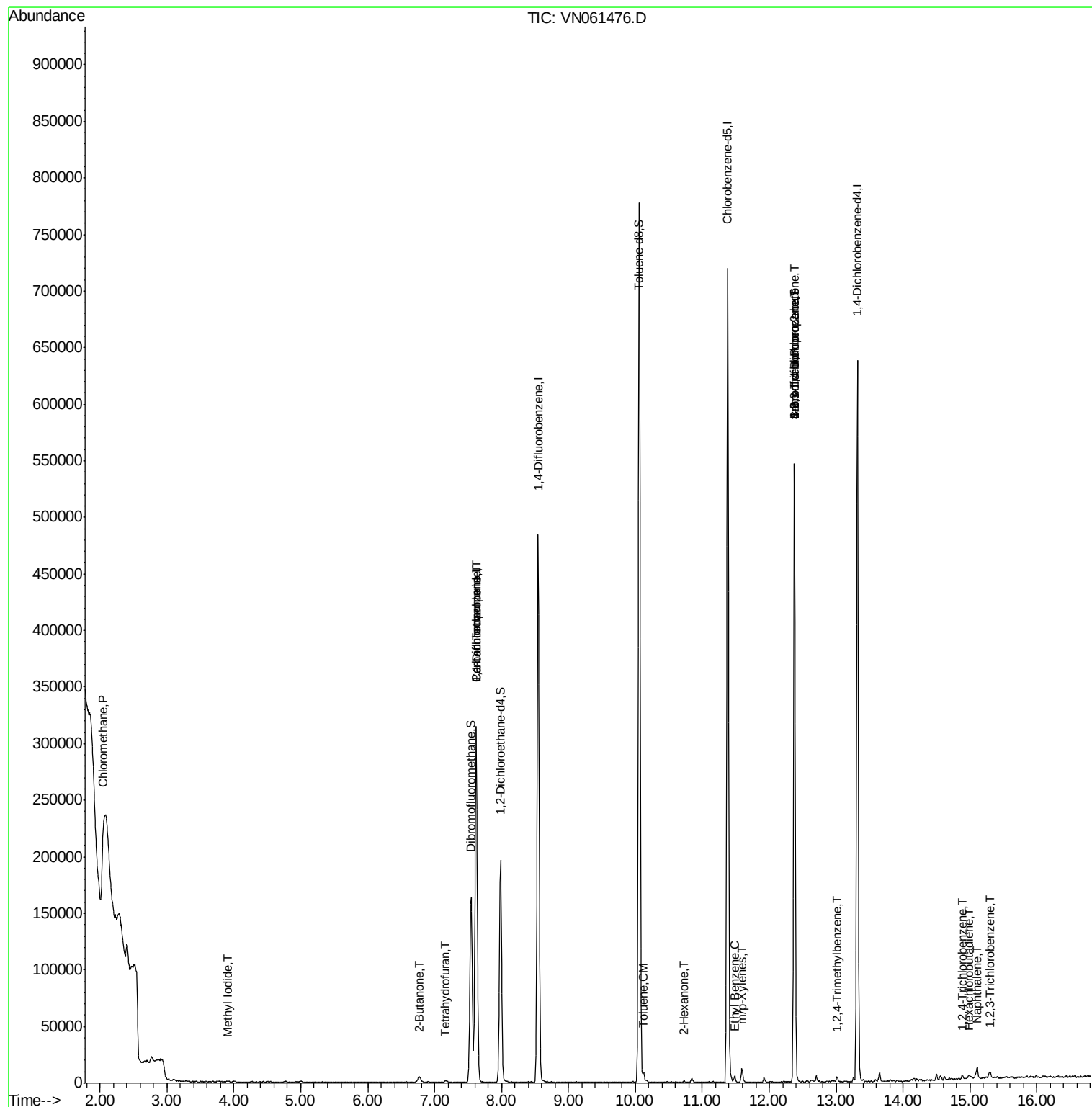
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	242915	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	448220	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	420258	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	166435	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.98	65	170938	47.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.30%	
35) Dibromofluoromethane	7.54	113	125813	53.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.16%	
50) Toluene-d8	10.06	98	553919	50.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.72%	
62) 4-Bromofluorobenzene	12.37	95	197646	48.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.14%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.03	50	2052	0.623	ug/l #	81
5) Bromomethane	2.55	94	1618	Below Cal	#	67
10) Methyl Iodide	3.91	142	1427	0.494	ug/l #	53
13) Acrolein	3.59	56	93	Below Cal	#	16
16) Acetone	3.76	43	268	Below Cal	#	43
17) Carbon Disulfide	4.00	76	821	Below Cal	#	75
18) Methyl Acetate	4.28	43	808	Below Cal	#	49
25) 2-Butanone	6.78	43	472	0.286	ug/l #	46
29) Tetrahydrofuran	7.17	42	280	0.256	ug/l #	85
31) Cyclohexane	7.62	56	5852	Below Cal	#	1
36) 1,1-Dichloropropene	7.62	75	19923	4.754	ug/l #	51
38) Carbon Tetrachloride	7.62	117	25392	6.580	ug/l #	15
52) Toluene	10.13	92	2729	0.337	ug/l	90
59) 2-Hexanone	10.72	43	630	0.241	ug/l	86
67) Ethyl Benzene	11.48	91	4437	0.284	ug/l	95
68) m/p-Xylenes	11.59	106	3869	0.652	ug/l	94
71) Bromoform	12.37	173	1376	2.573	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	105095	29.428	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	105095	78.065	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.02	105	3356	0.307	ug/l	98
93) 1,2,4-Trichlorobenzene	14.89	180	1315	0.476	ug/l	88
94) Hexachlorobutadiene	14.98	225	273	0.223	ug/l #	55
95) Naphthalene	15.11	128	8902	1.014	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.28	180	1947	0.709	ug/l	81

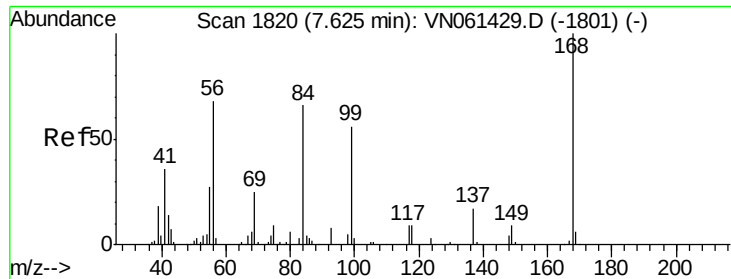
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.00 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

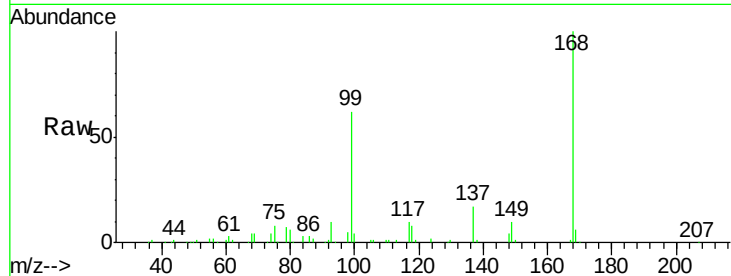
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 242915

Ion Ratio Lower Upper

168 100

99 62.0 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.62

100000

80000

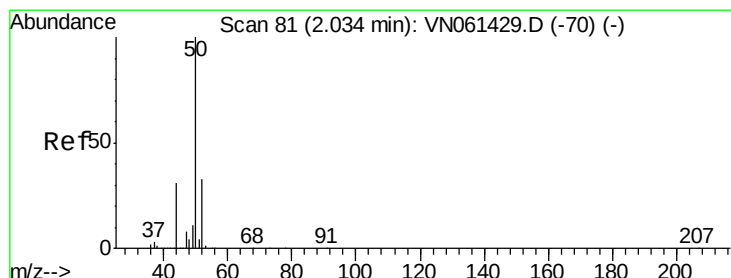
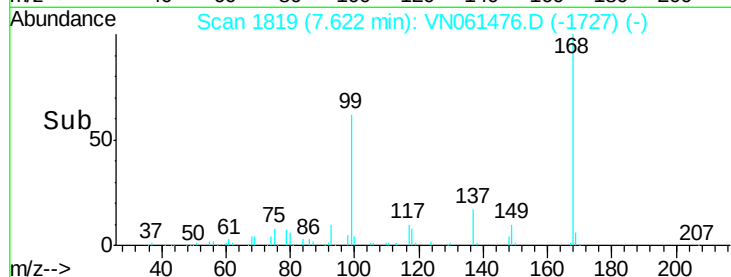
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.623 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061476.D

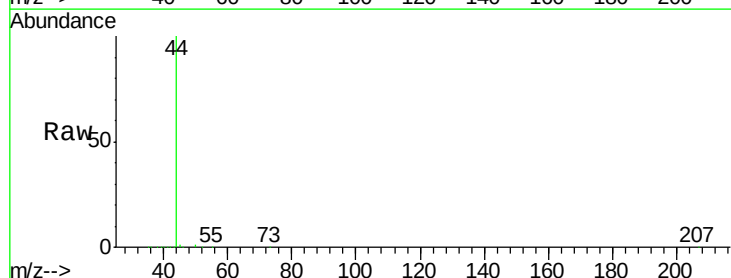
Acq: 19 May 2020 12:05

Tgt Ion: 50 Resp: 2052

Ion Ratio Lower Upper

50 100

52 44.0 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

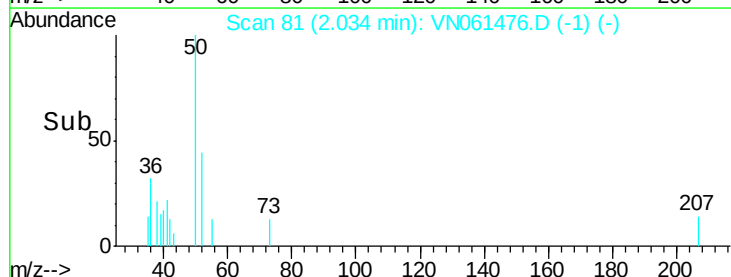
2.03

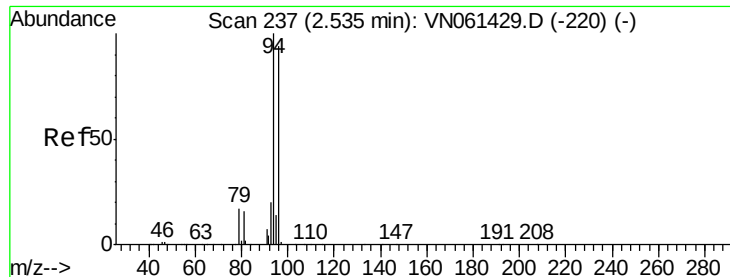
1000

500

0

Time--> 2.00 2.05 2.10





#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

Instrument :

MSVOA_N

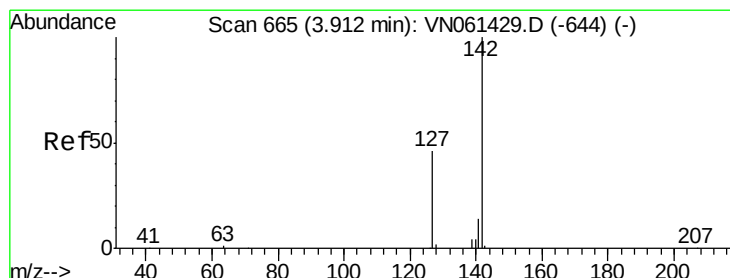
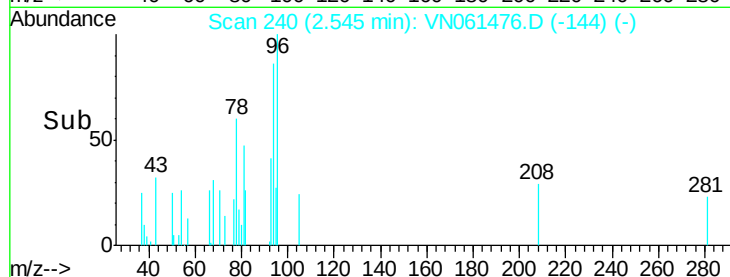
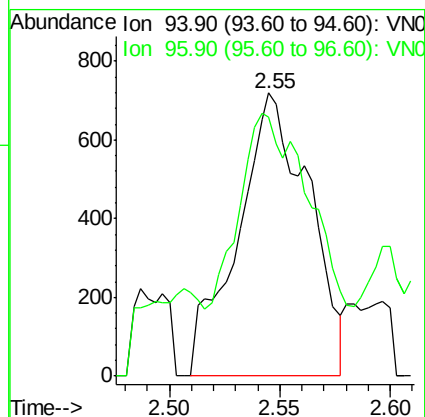
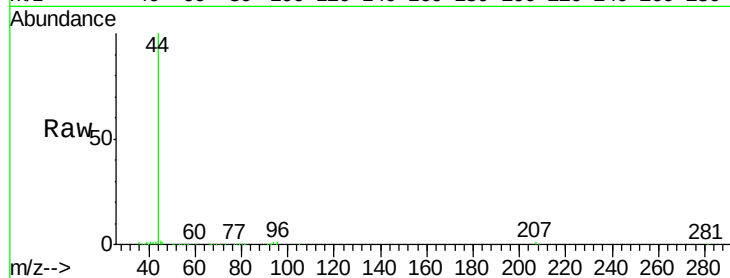
ClientSampled :

Tot Ion: 94 Resp: 1618

Ion Ratio Lower Upper

94 100

96 62.0 74.9 112.3#



#10

Methyl Iodide

Concen: 0.494 ug/l

RT: 3.91 min Scan# 666

Delta R.T. 0.00 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

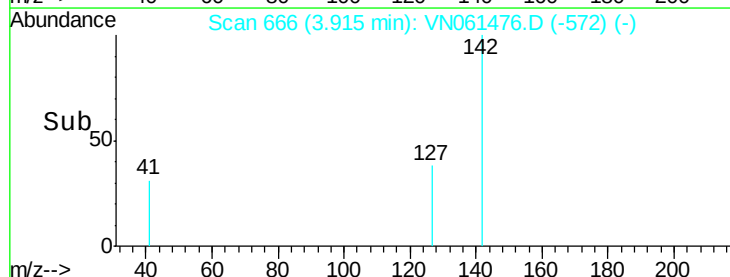
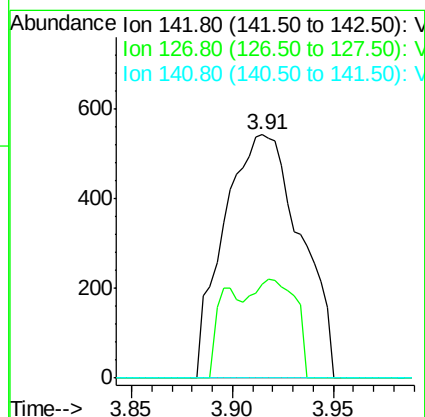
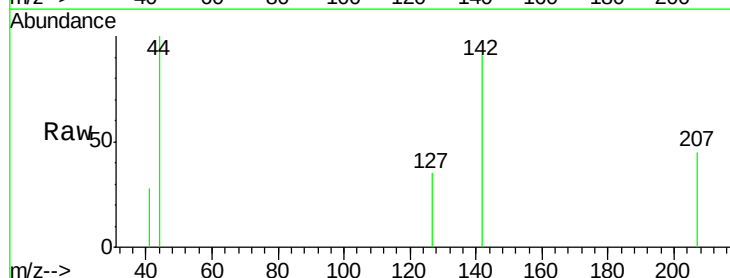
Tgt Ion: 142 Resp: 1427

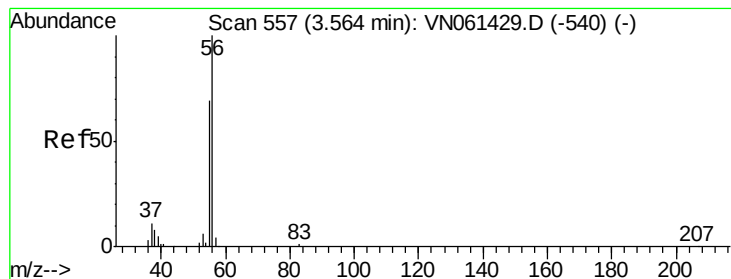
Ion Ratio Lower Upper

142 100

127 12.3 36.7 55.1#

141 0.0 11.5 17.3#





#13

Acrolein

Concen: Below Cal

RT: 3.59 min Scan# 565

Delta R.T. 0.03 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

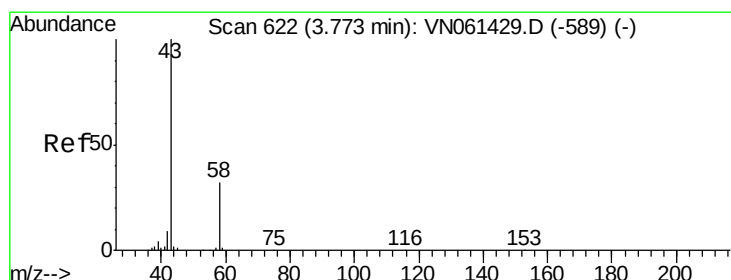
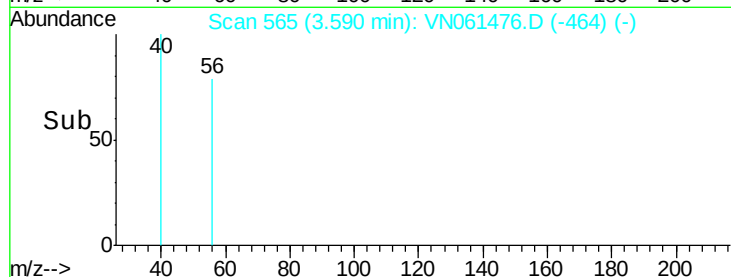
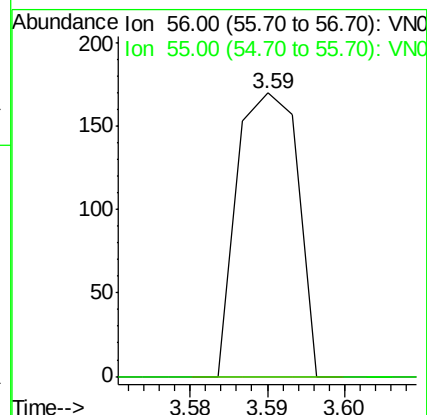
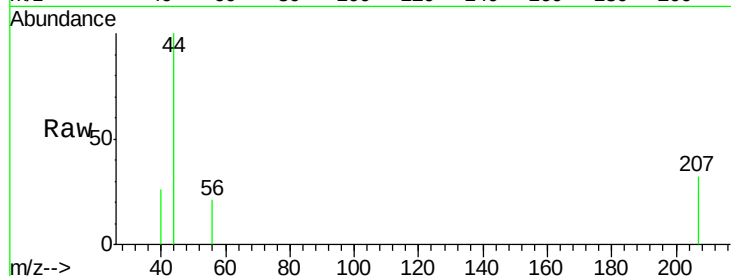
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 93

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#



#16

Acetone

Concen: Below Cal

RT: 3.76 min Scan# 619

Delta R.T. -0.01 min

Lab File: VN061476.D

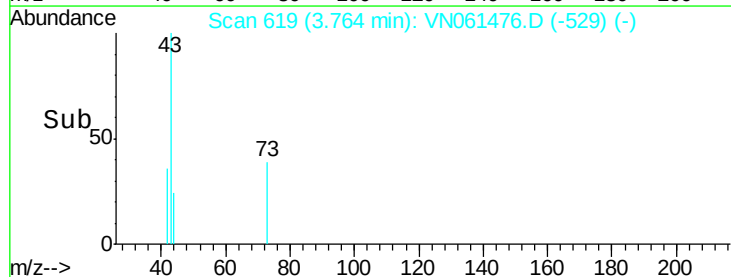
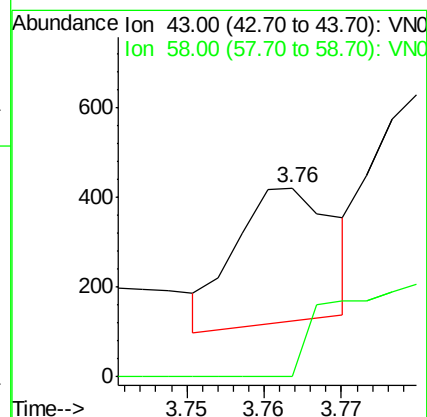
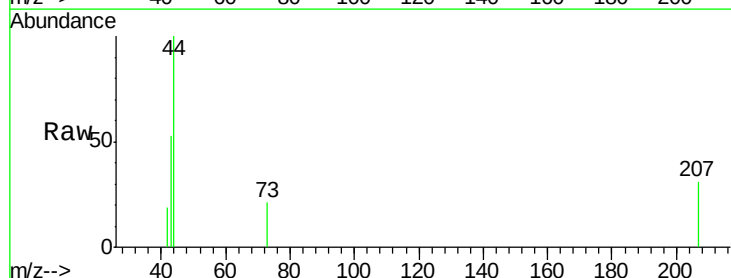
Acq: 19 May 2020 12:05

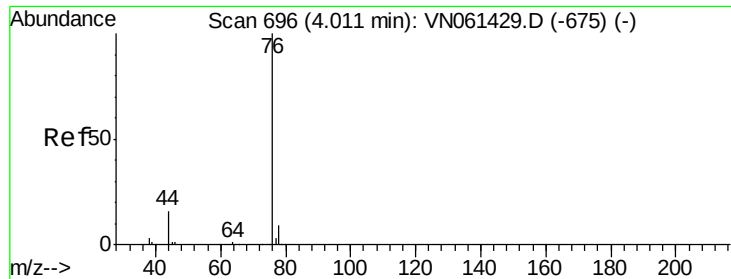
Tgt Ion: 43 Resp: 268

Ion Ratio Lower Upper

43 100

58 0.0 25.6 38.4#

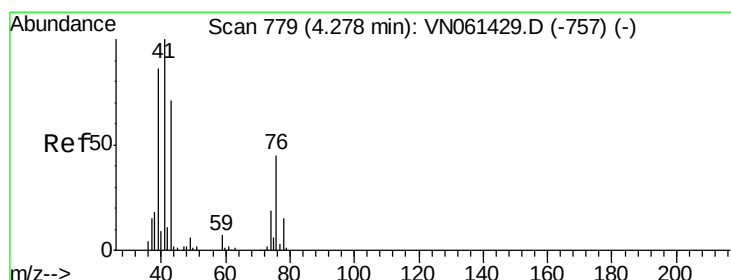
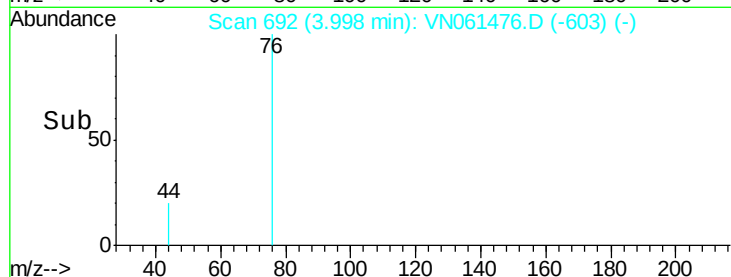
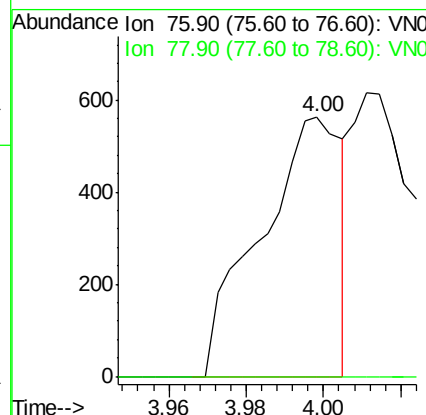
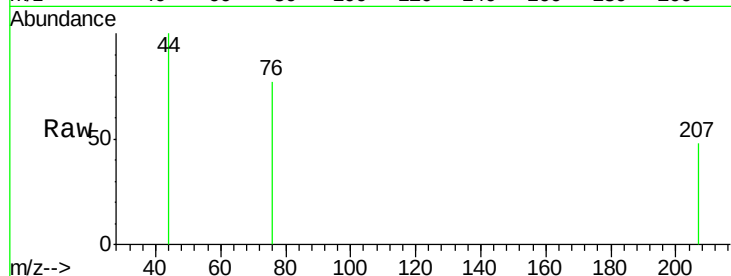




#17
Carbon Disulfide
Concen: Below Cal
RT: 4.00 min Scan# 692
Delta R.T. -0.01 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

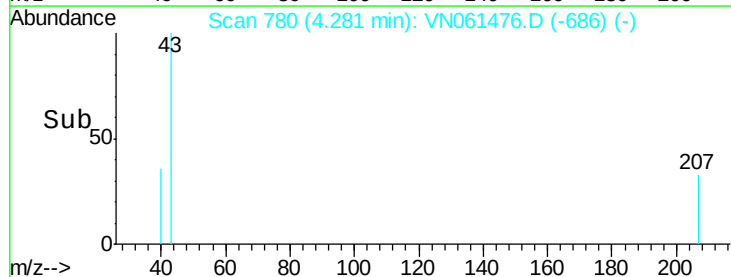
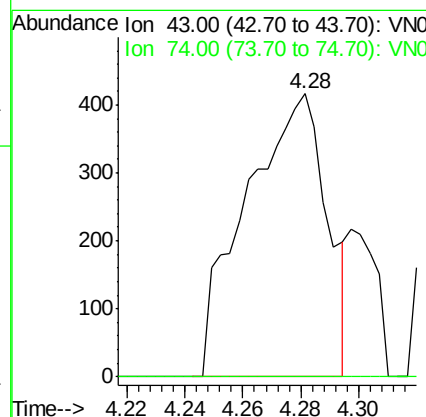
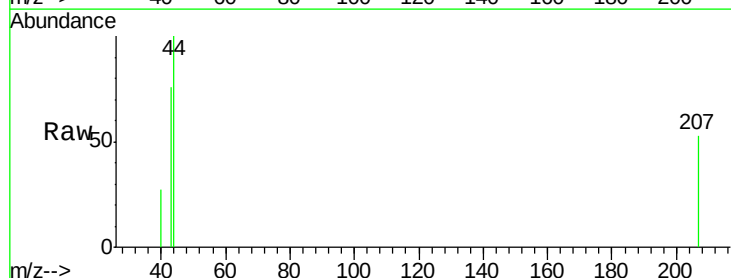
Instrument :
MSVOA_N
ClientSampleId :

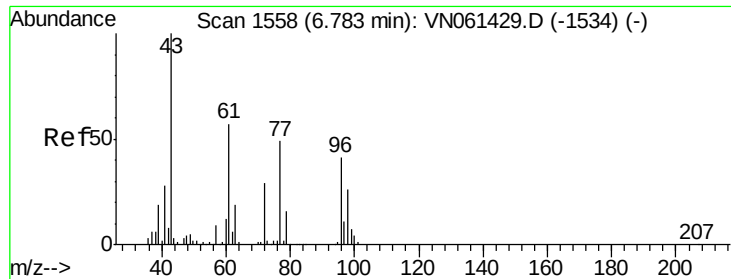
Tot Ion: 76 Resp: 821
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 780
Delta R.T. 0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Tgt Ion: 43 Resp: 808
Ion Ratio Lower Upper
43 100
74 0.0 20.8 31.2#

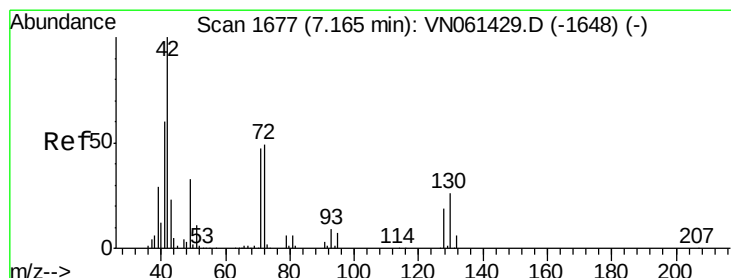
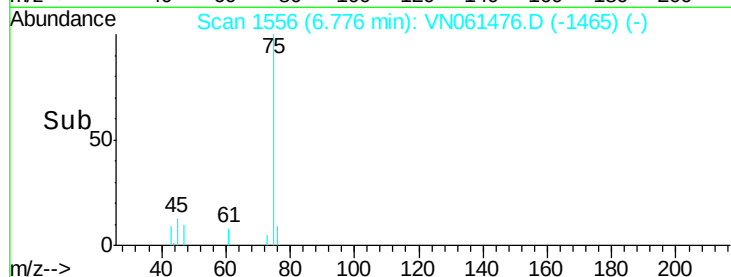
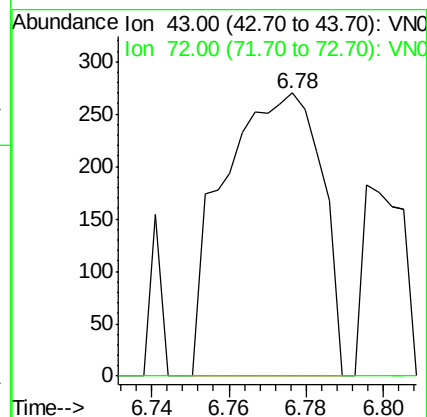
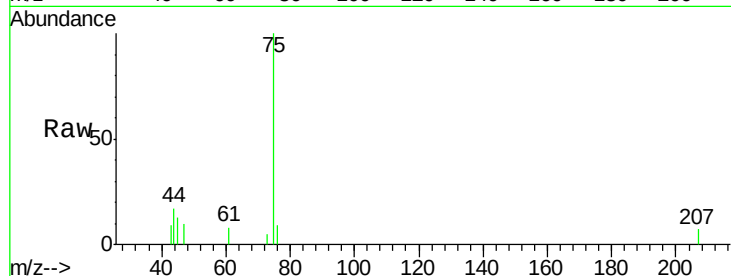




#25
 2-Butanone
 Concen: 0.286 ug/l
 RT: 6.78 min Scan# 1556
 Delta R.T. -0.01 min
 Lab File: VN061476.D
 Acq: 19 May 2020 12:05

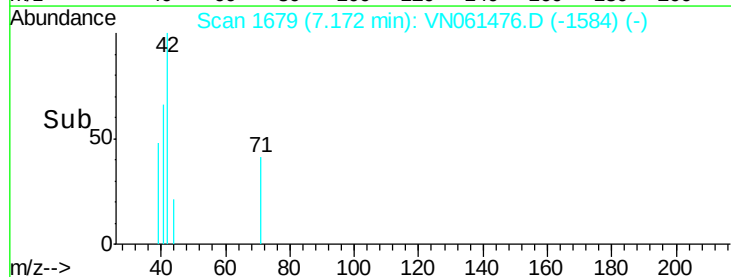
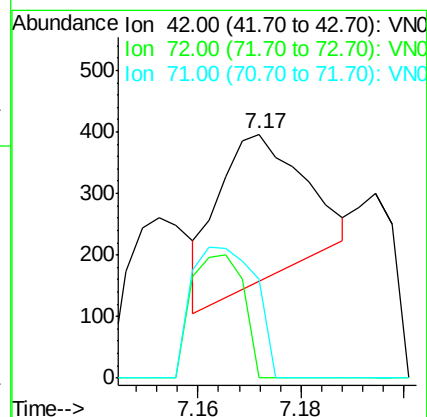
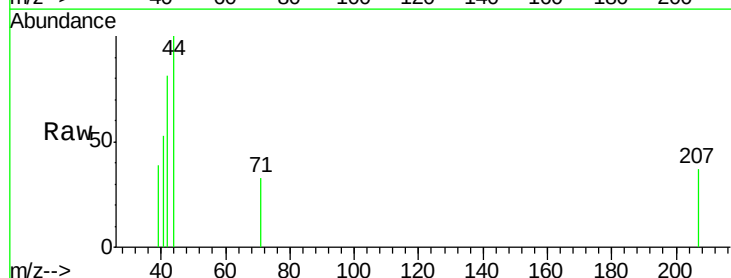
Instrument :
 MSVOA_N
 ClientSampled :

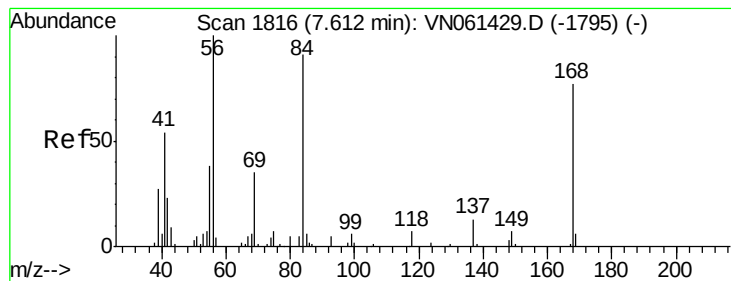
Tot Ion: 43 Resp: 472
 Ion Ratio Lower Upper
 43 100
 72 0.0 23.0 34.6#



#29
 Tetrahydrofuran
 Concen: 0.256 ug/l
 RT: 7.17 min Scan# 1679
 Delta R.T. 0.01 min
 Lab File: VN061476.D
 Acq: 19 May 2020 12:05

Tgt Ion: 42 Resp: 280
 Ion Ratio Lower Upper
 42 100
 72 49.6 39.0 58.6
 71 65.4 36.9 55.3#





#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1818

Delta R.T. 0.01 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

Instrument :
MSVOA_N
ClientSampled :

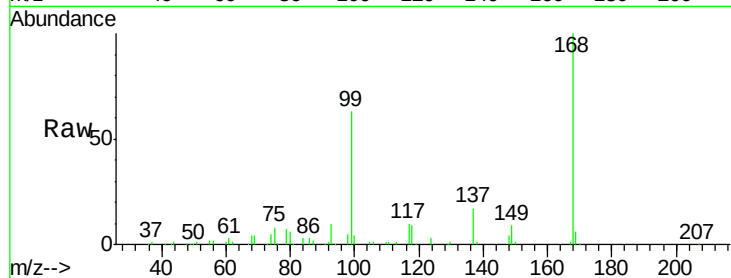
Tot Ion: 56 Resp: 5852

Ion Ratio Lower Upper

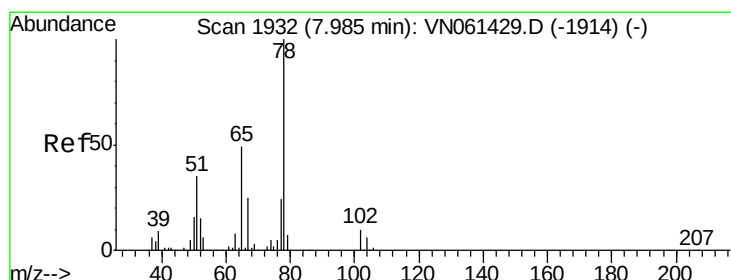
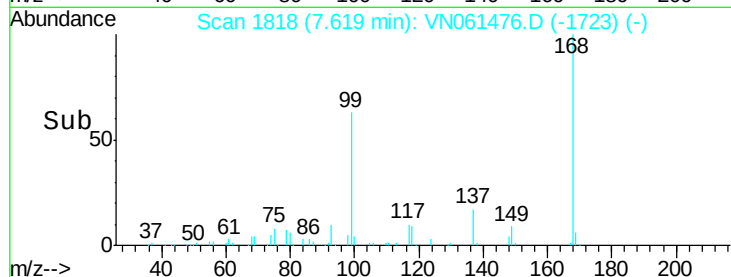
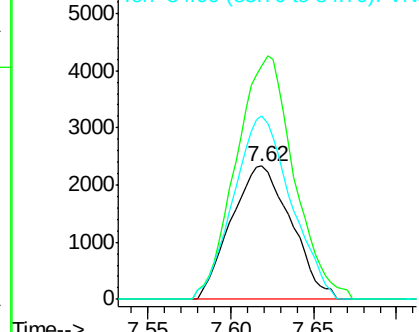
56 100

69 175.6 27.8 41.6#

84 138.1 72.7 109.1#



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



#33

1,2-Dichloroethane-d4

Concen: 47.150 ug/l

RT: 7.98 min Scan# 1931

Delta R.T. -0.00 min

Lab File: VN061476.D

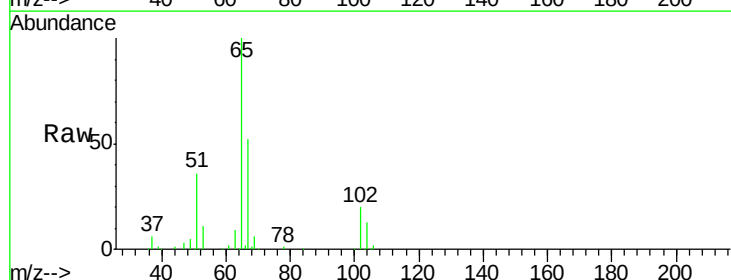
Acq: 19 May 2020 12:05

Tgt Ion: 65 Resp: 170938

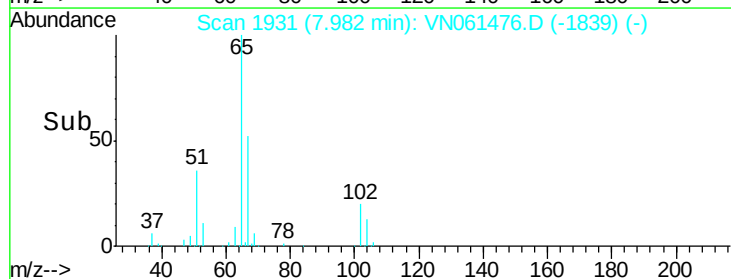
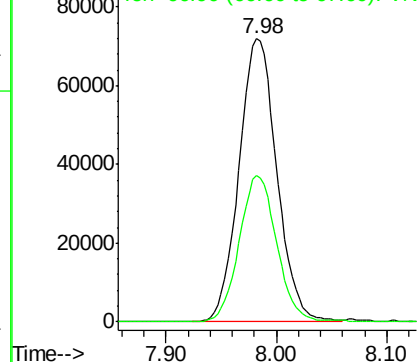
Ion Ratio Lower Upper

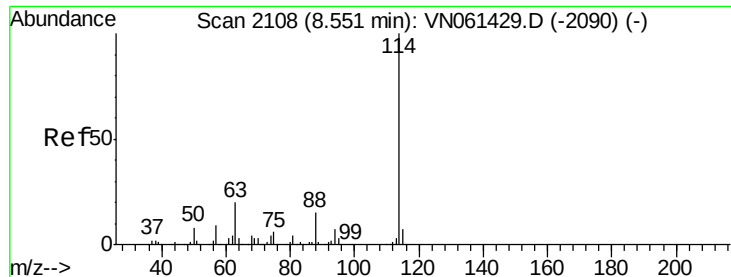
65 100

67 51.1 0.0 101.4



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# 2107

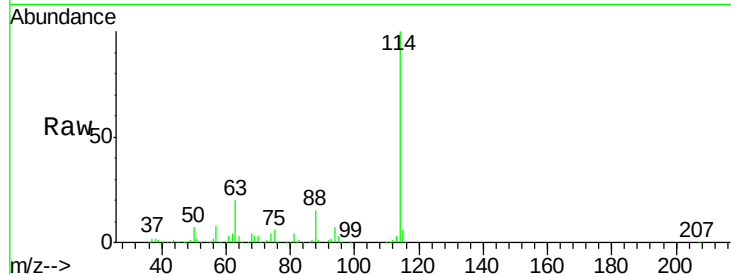
Delta R.T. -0.00 min

Lab File: VN061476.D

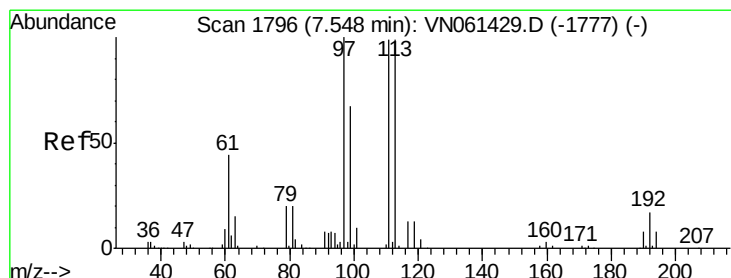
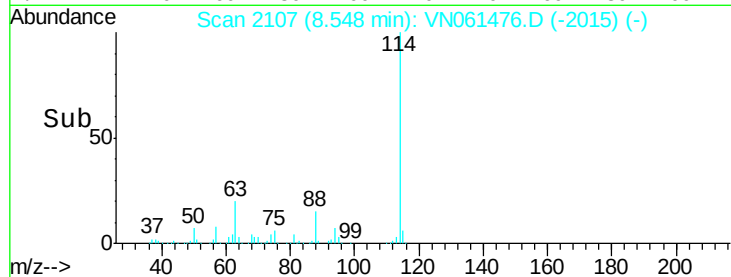
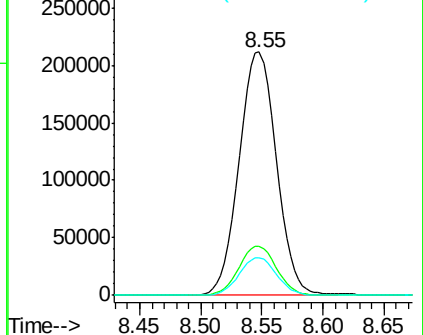
Acq: 19 May 2020 12:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114	Resp:	448220
Ion Ratio	Lower	Upper
114 100		
63 20.1	0.0	40.8
88 15.3	0.0	30.8



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



#35

Dibromofluoromethane

Concen: 53.581 ug/l

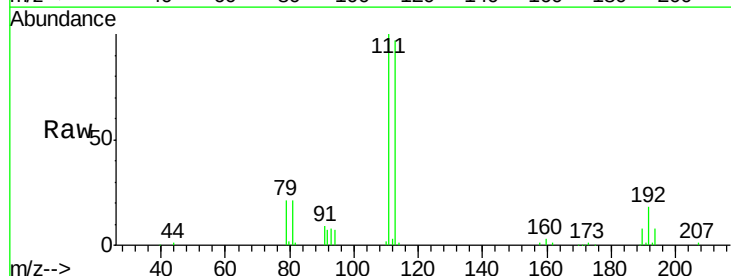
RT: 7.54 min Scan# 1795

Delta R.T. -0.00 min

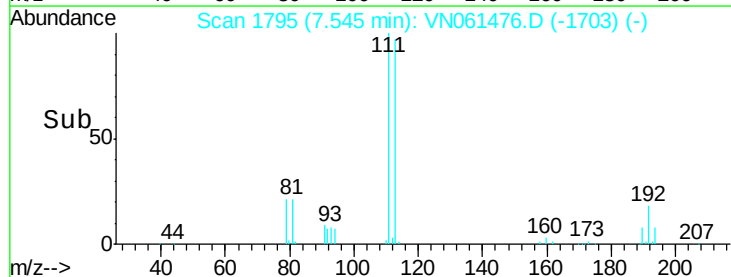
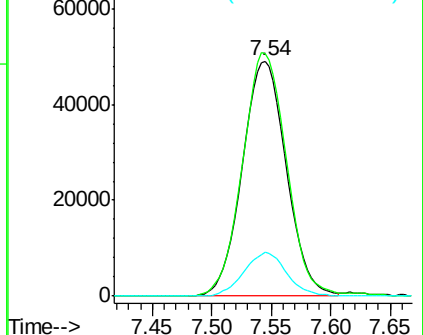
Lab File: VN061476.D

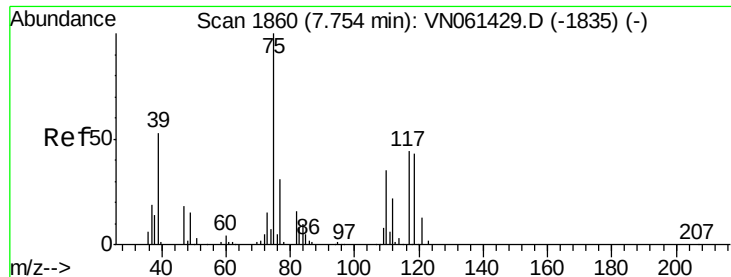
Acq: 19 May 2020 12:05

Tgt Ion:113	Resp:	125813
Ion Ratio	Lower	Upper
113 100		
111 104.2	80.6	121.0
192 18.0	13.2	19.8



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

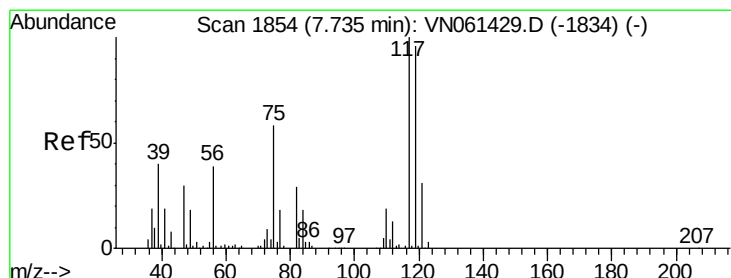
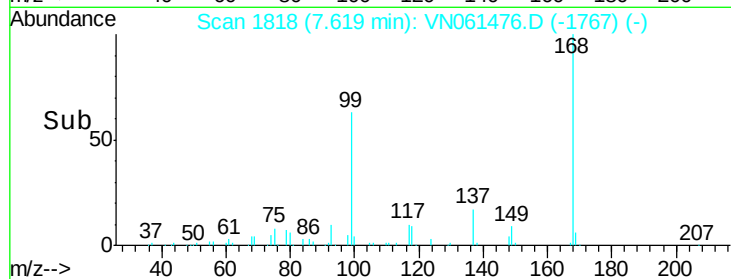
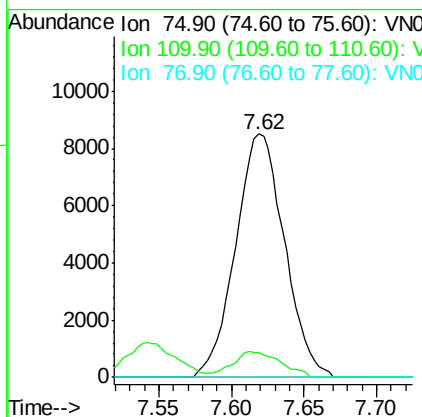
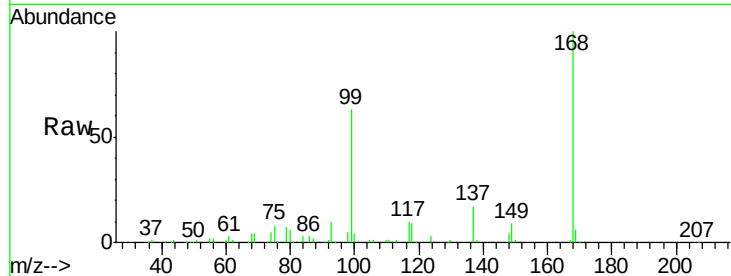




#36
 1,1-Dichloropropene
 Concen: 4.754 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.14 min
 Lab File: VN061476.D
 Acq: 19 May 2020 12:05

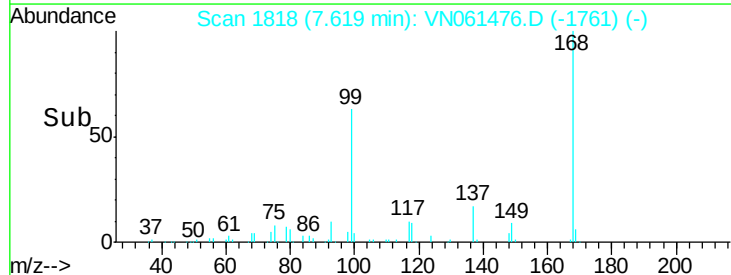
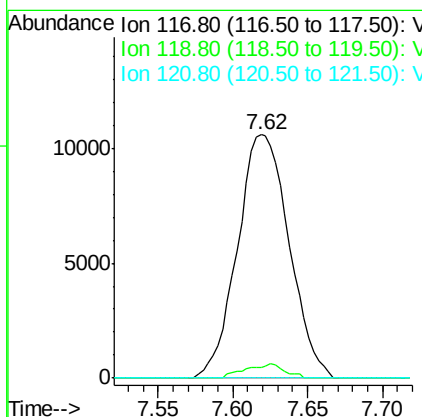
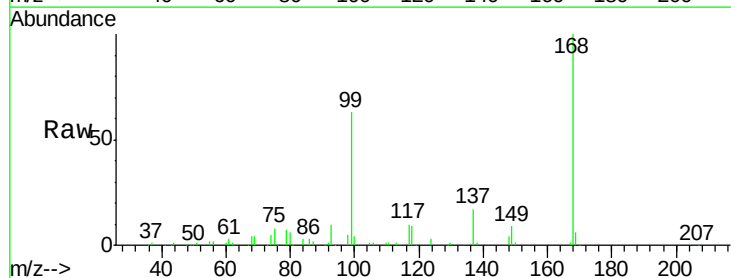
Instrument :
 MSVOA_N
 ClientSampleId :

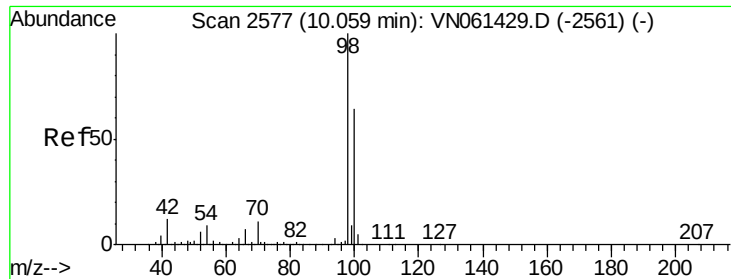
Tot Ion: 75 Resp: 19923
 Ion Ratio Lower Upper
 75 100
 110 10.4 17.3 51.9#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.580 ug/l
 RT: 7.62 min Scan# 1818
 Delta R.T. -0.12 min
 Lab File: VN061476.D
 Acq: 19 May 2020 12:05

Tgt Ion: 117 Resp: 25392
 Ion Ratio Lower Upper
 117 100
 119 4.5 77.0 115.6#
 121 0.0 24.7 37.1#

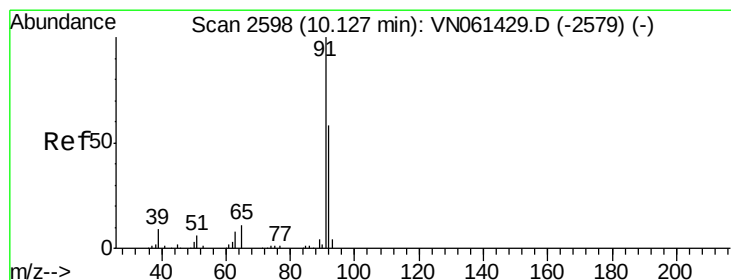
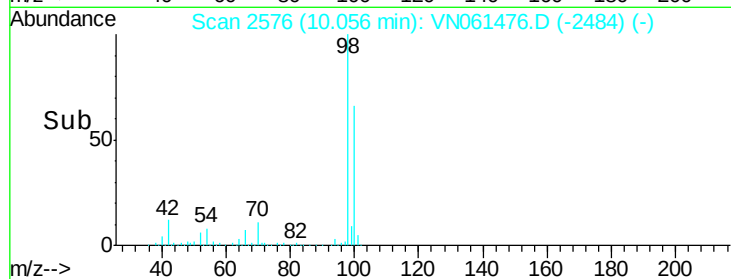
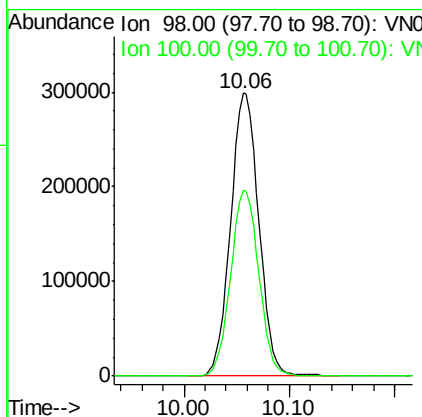
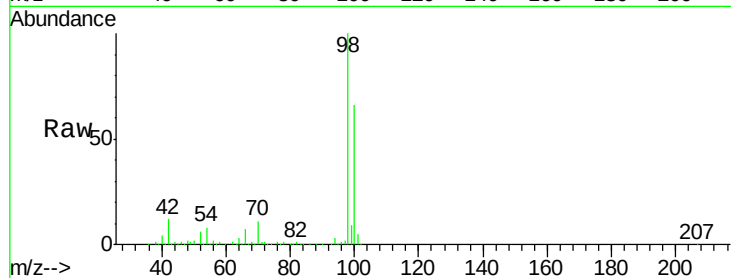




#50
Toluene-d8
Concen: 50.860 ug/l
RT: 10.06 min Scan# 2576
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

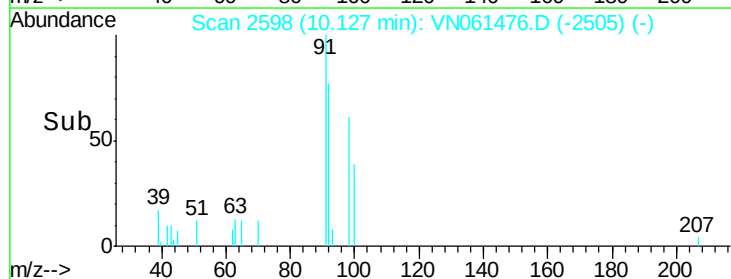
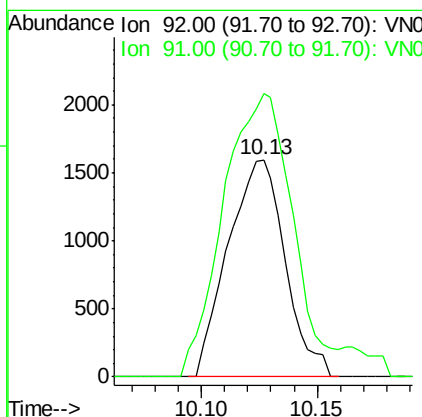
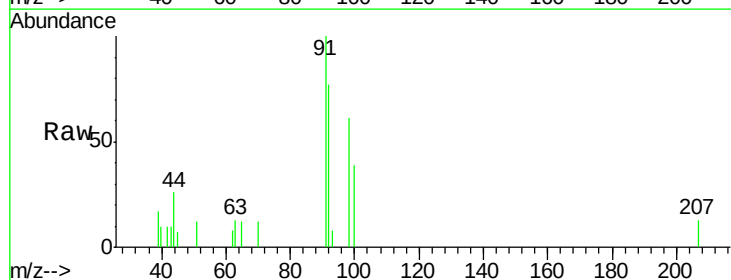
Instrument :
MSVOA_N
ClientSampled :

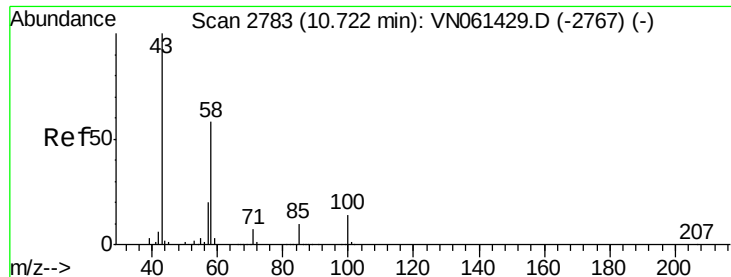
Tot Ion: 98 Resp: 553919
Ion Ratio Lower Upper
98 100
100 65.7 51.8 77.8



#52
Toluene
Concen: 0.337 ug/l
RT: 10.13 min Scan# 2598
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Tgt Ion: 92 Resp: 2729
Ion Ratio Lower Upper
92 100
91 158.6 138.0 207.0

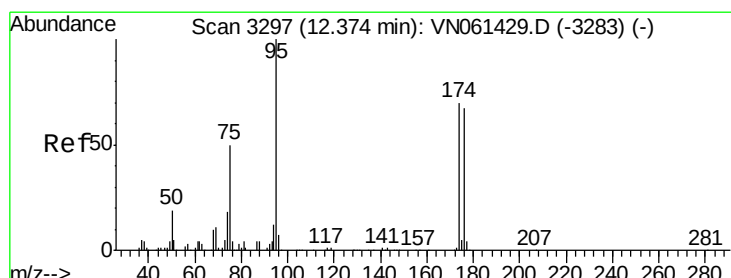
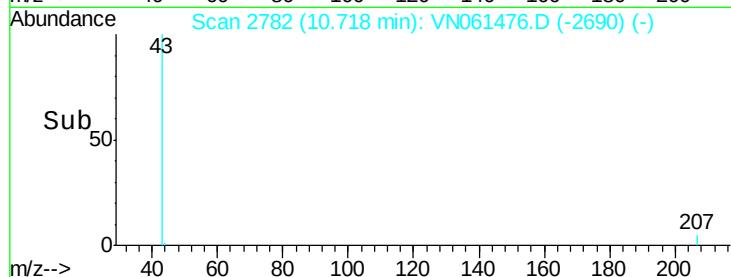
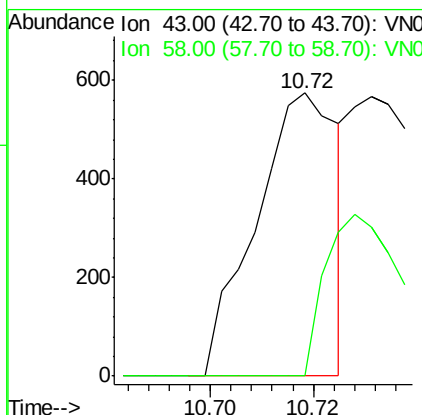
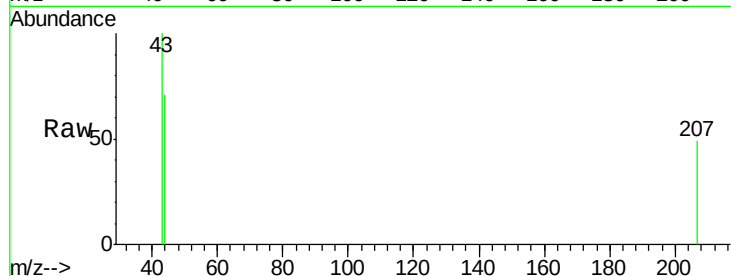




#59
2-Hexanone
Concen: 0.241 ug/l
RT: 10.72 min Scan# 2782
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

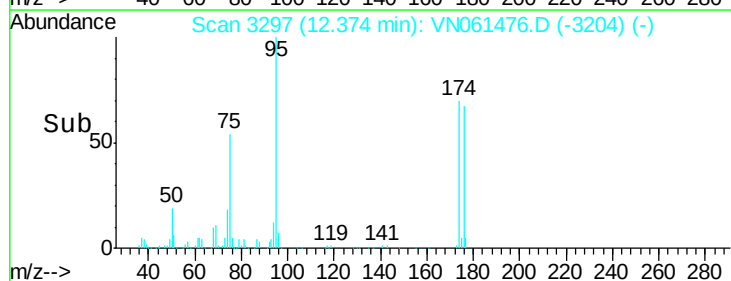
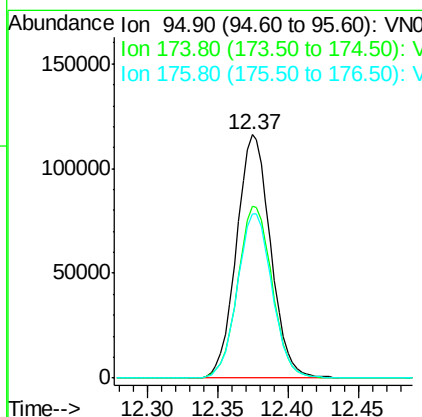
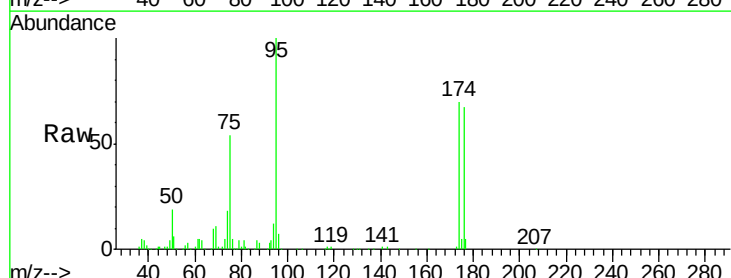
Instrument :
MSVOA_N
ClientSampleId :

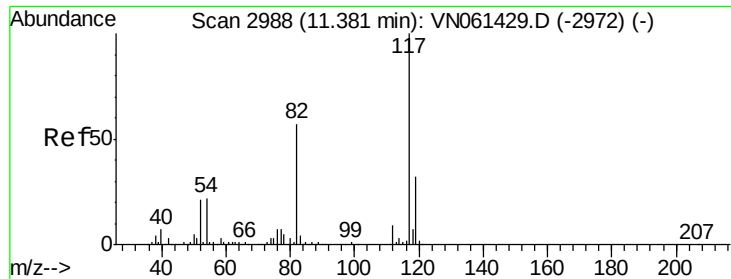
Tot Ion: 43 Resp: 630
Ion Ratio Lower Upper
43 100
58 47.8 29.2 87.6



#62
4-Bromofluorobenzene
Concen: 48.574 ug/l
RT: 12.37 min Scan# 3297
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Tgt Ion: 95 Resp: 197646
Ion Ratio Lower Upper
95 100
174 71.3 0.0 141.2
176 68.8 0.0 137.6

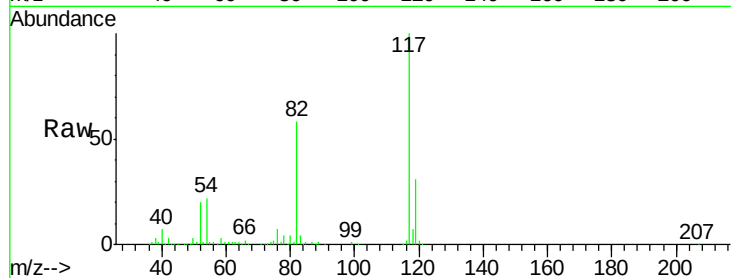




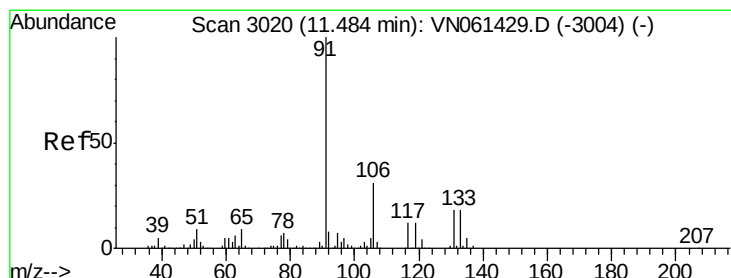
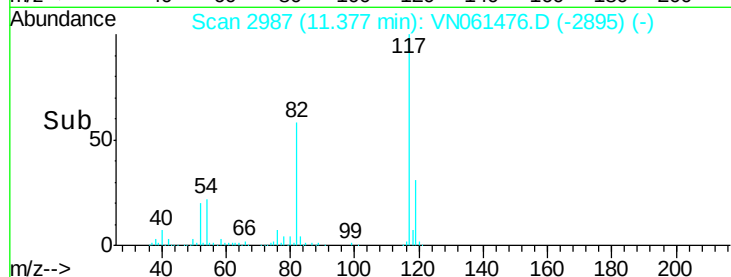
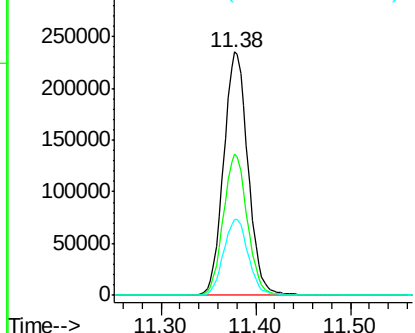
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2987
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 420258
Ion Ratio Lower Upper
117 100
82 58.1 45.2 67.8
119 31.4 25.3 37.9

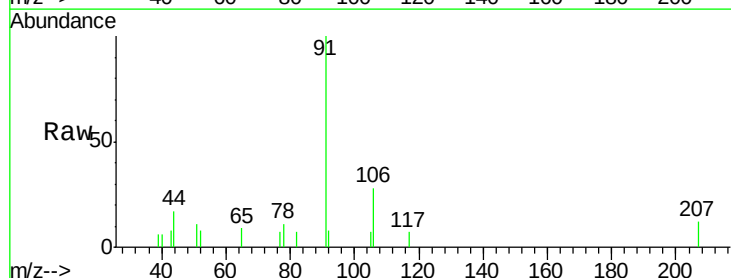


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

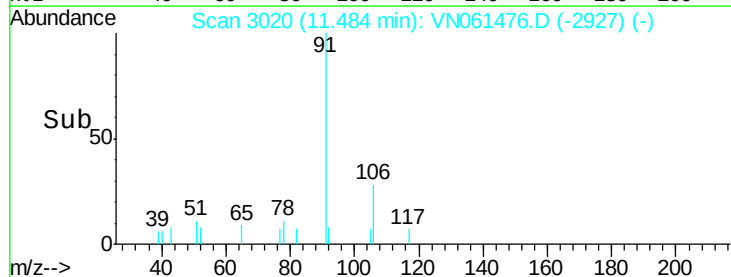
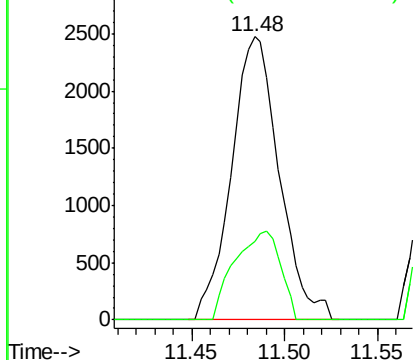


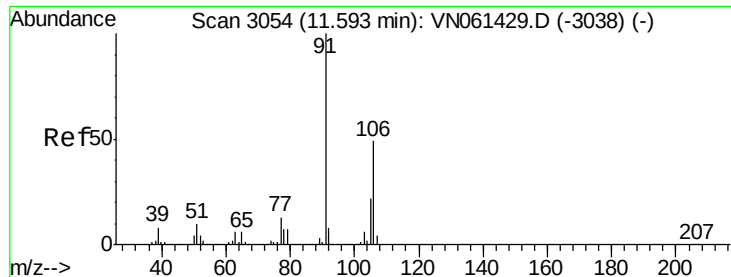
#67
Ethyl Benzene
Concen: 0.284 ug/l
RT: 11.48 min Scan# 3020
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Tgt Ion: 91 Resp: 4437
Ion Ratio Lower Upper
91 100
106 28.0 24.6 36.8



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 106.00 (105.70 to 106.70): V





#68

m/p-Xvlenes

Concen: 0.652 ug/l

RT: 11.59 min Scan# 3053

Delta R.T. -0.00 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

Instrument :

MSVOA_N

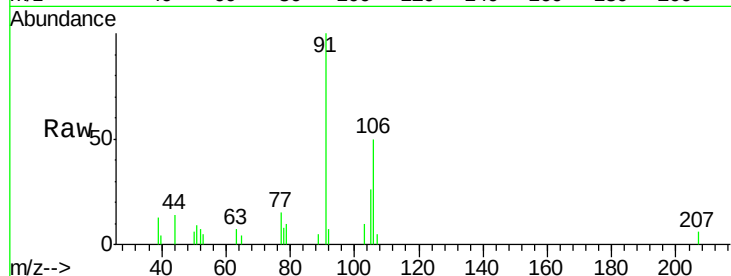
ClientSampled :

Tot Ion:106 Resp: 3869

Ion Ratio Lower Upper

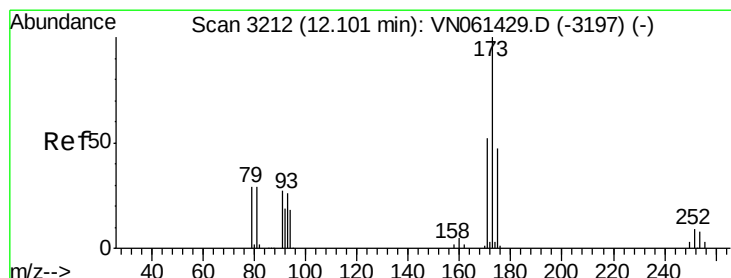
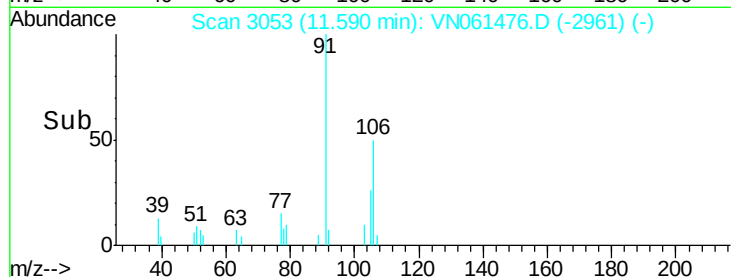
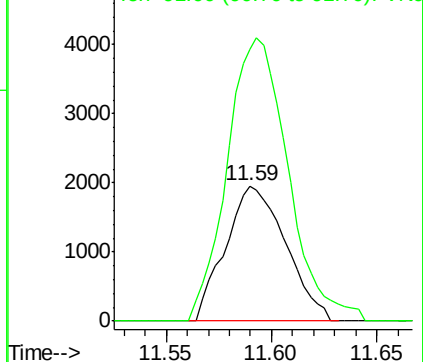
106 100

91 212.6 163.0 244.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN0



#71

Bromoform

Concen: 2.573 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

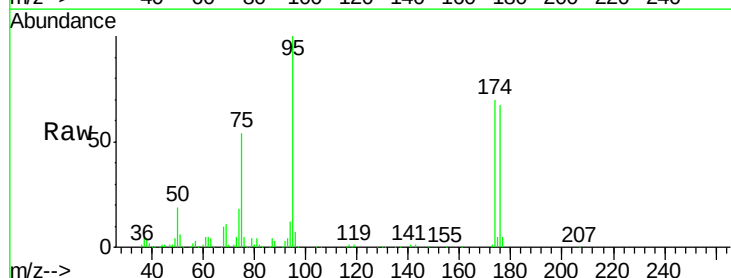
Tgt Ion:173 Resp: 1376

Ion Ratio Lower Upper

173 100

175 673.5 23.9 71.8#

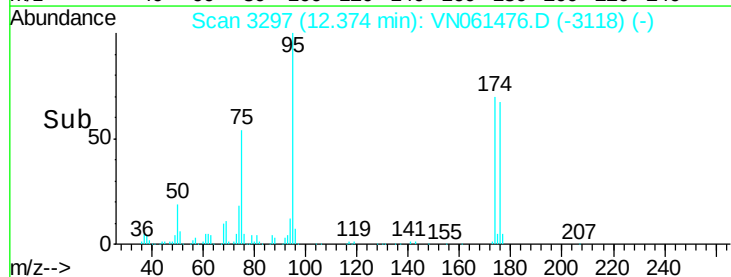
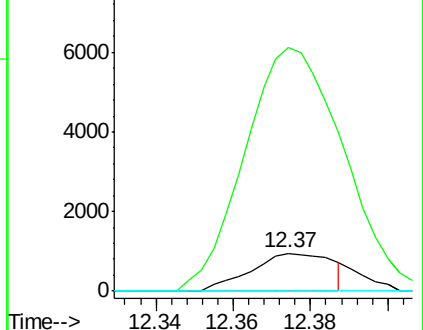
254 0.0 0.0 0.0

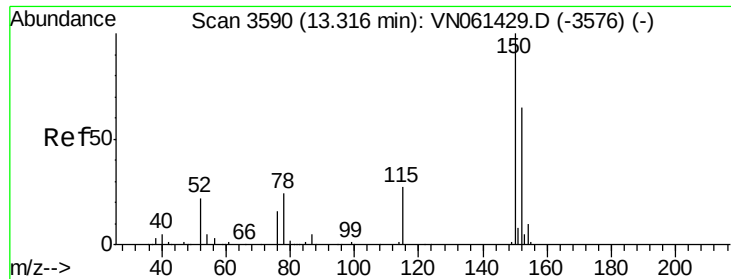


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN061476.D

Acq: 19 May 2020 12:05

Instrument :

MSVOA_N

ClientSampleId :

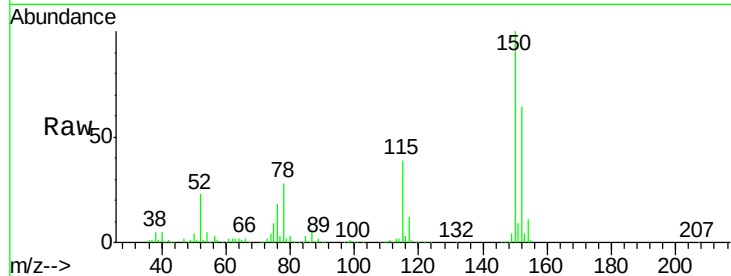
Tot Ion:152 Resp: 166435

Ion Ratio Lower Upper

152 100

115 62.3 30.9 92.5

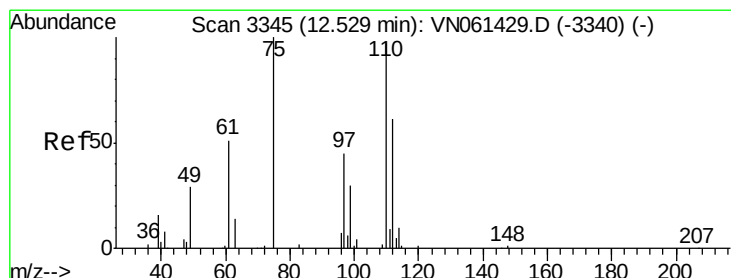
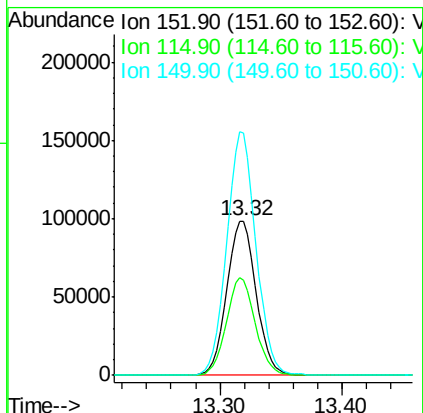
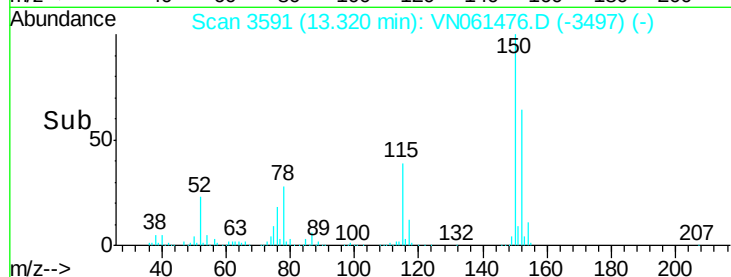
150 156.8 0.0 349.2



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: 29.428 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061476.D

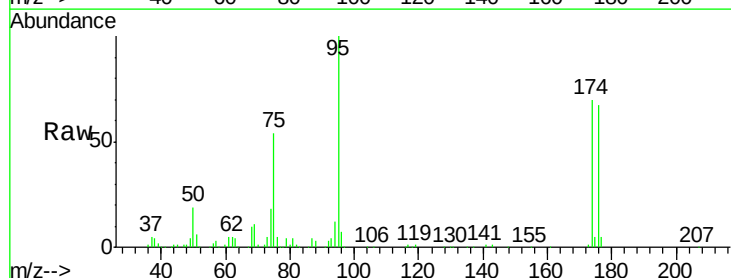
Acq: 19 May 2020 12:05

Tgt Ion: 75 Resp: 105095

Ion Ratio Lower Upper

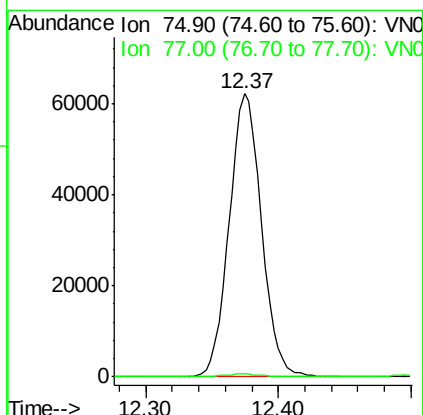
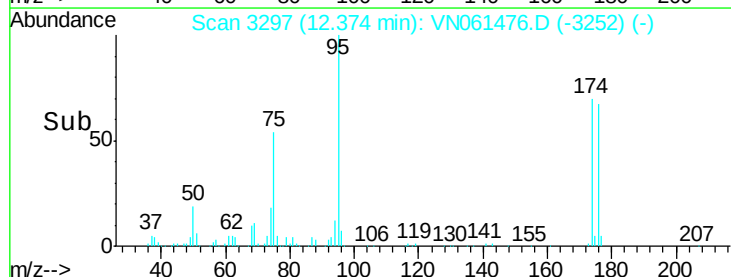
75 100

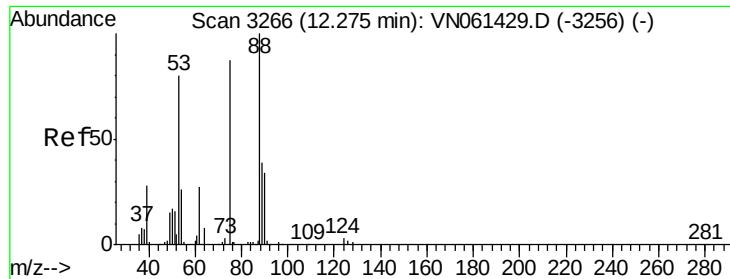
77 1.0 0.0 0.0#



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: 78.065 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061476.D

Acq: 19 May 2020 12:05

Instrument :

MSVOA_N

ClientSampled :

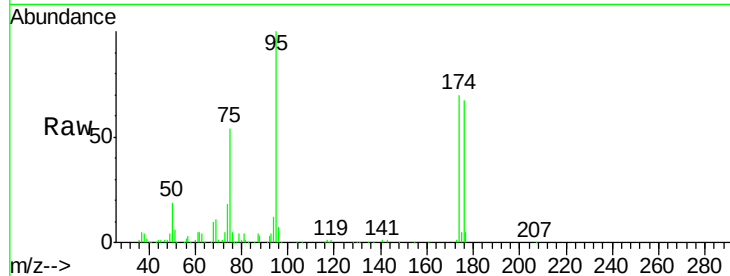
Tot Ion: 75 Resp: 105095

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

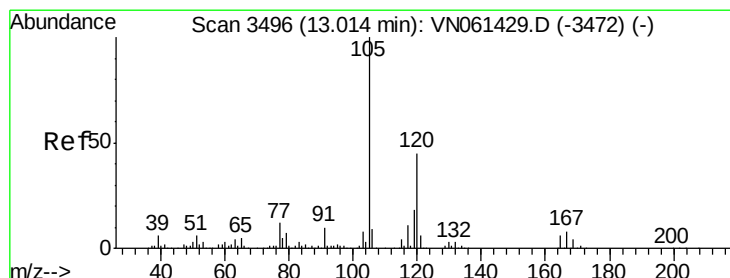
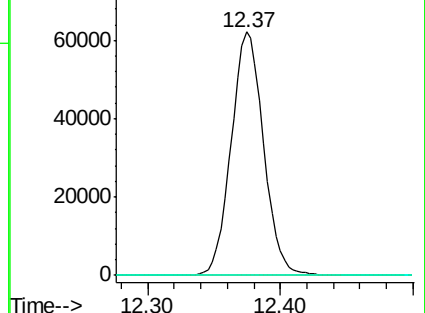
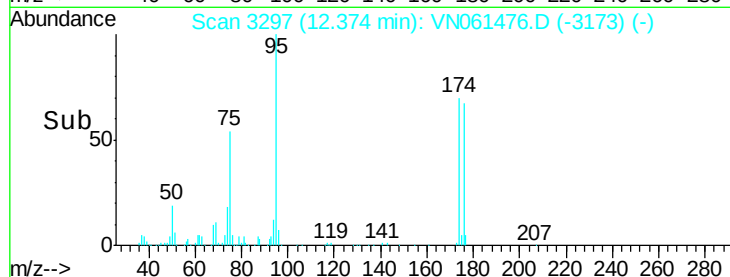
89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VN061476.D (-3173) (-)

Ion 53.00 (52.70 to 53.70): VN061476.D (-3173) (-)

Ion 88.90 (88.60 to 89.60): VN061476.D (-3173) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.307 ug/l

RT: 13.02 min Scan# 3497

Delta R.T. 0.00 min

Lab File: VN061476.D

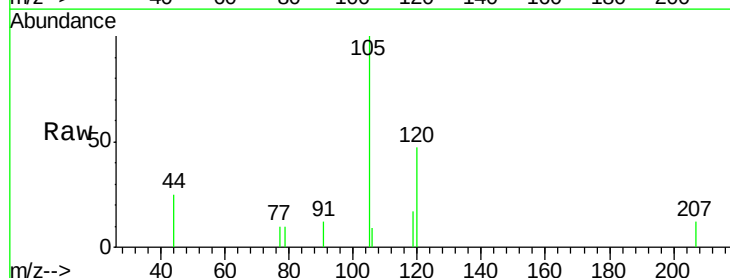
Acq: 19 May 2020 12:05

Tgt Ion: 105 Resp: 3356

Ion Ratio Lower Upper

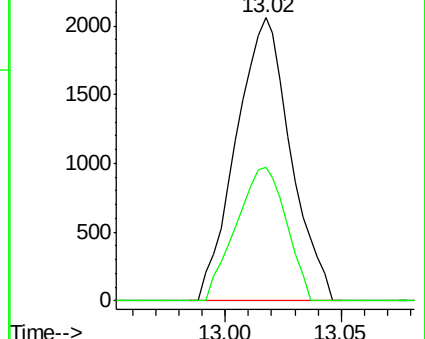
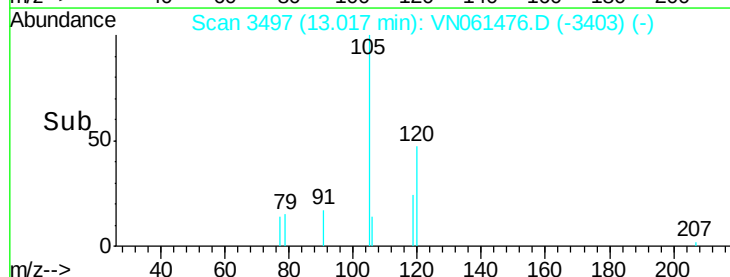
105 100

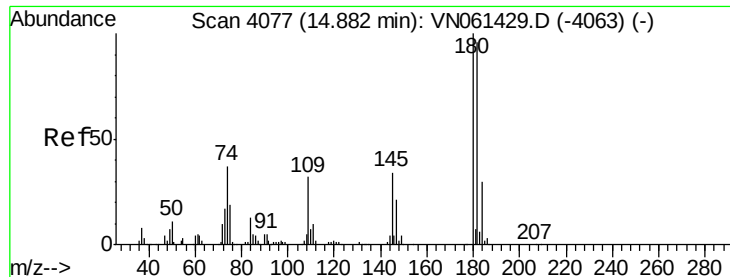
120 43.3 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): VN061476.D (-3403) (-)

Ion 120.00 (119.70 to 120.70): VN061476.D (-3403) (-)

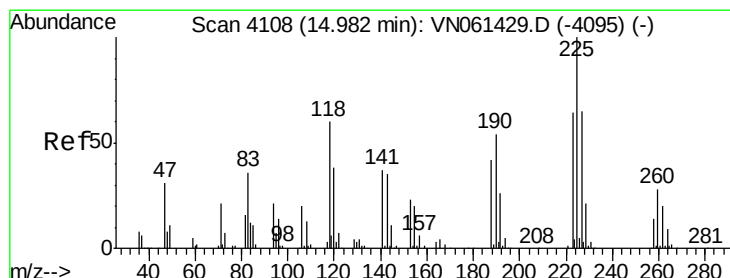
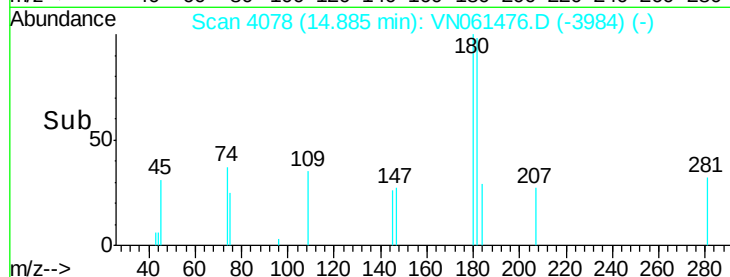
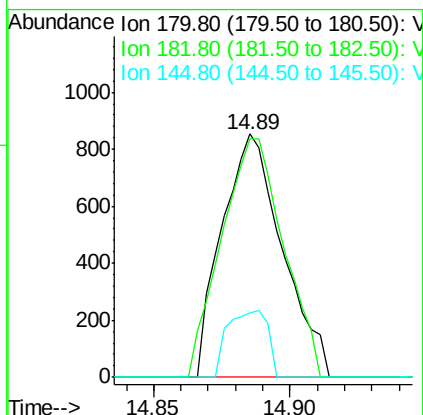
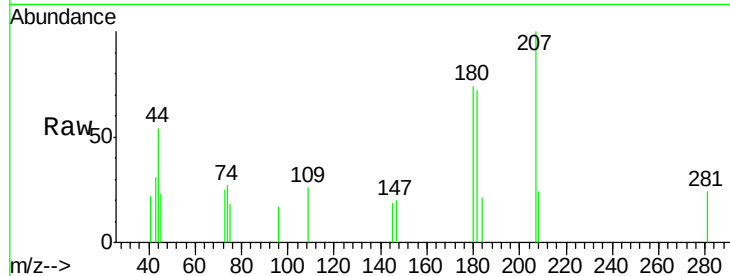




#93
 1,2,4-Trichlorobenzene
 Concen: 0.476 ug/l
 RT: 14.89 min Scan# 4078
 Delta R.T. 0.00 min
 Lab File: VN061476.D
 Acq: 19 May 2020 12:05

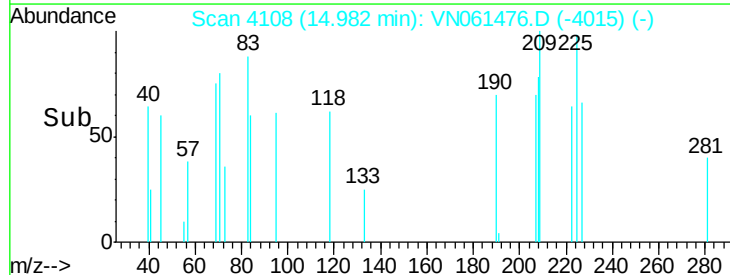
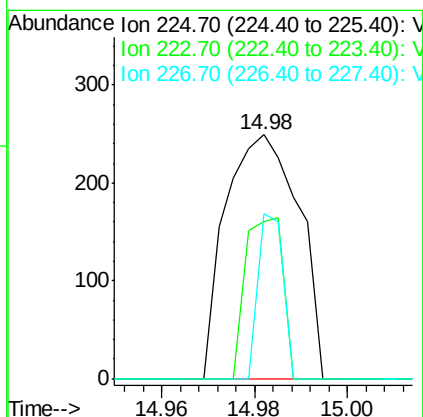
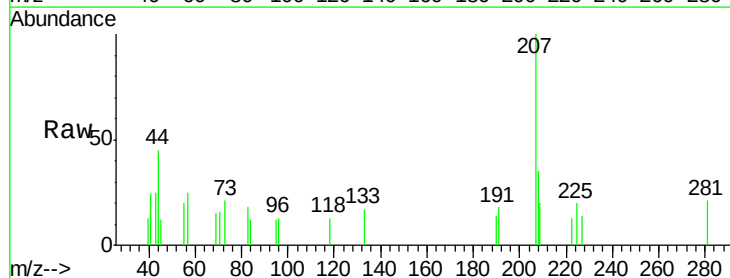
Instrument :
 MSVOA_N
 ClientSampled :

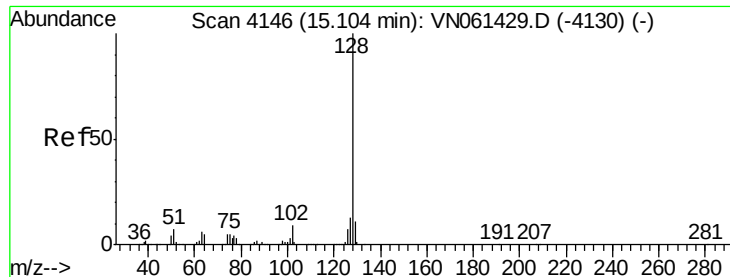
Tot Ion:180 Resp: 1315
 Ion Ratio Lower Upper
 180 100
 182 100.7 47.0 141.0
 145 18.1 16.7 50.0



#94
 Hexachlorobutadiene
 Concen: 0.223 ug/l
 RT: 14.98 min Scan# 4108
 Delta R.T. -0.00 min
 Lab File: VN061476.D
 Acq: 19 May 2020 12:05

Tgt Ion:225 Resp: 273
 Ion Ratio Lower Upper
 225 100
 223 33.7 31.9 95.7
 227 23.1 31.5 94.5#

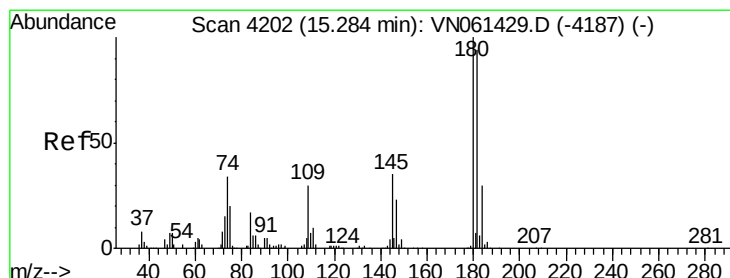
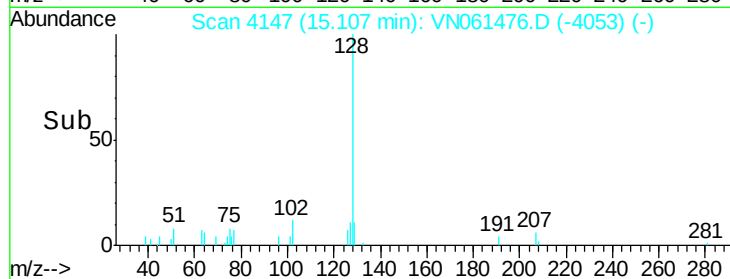
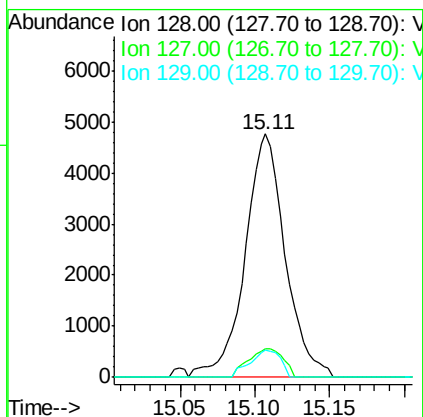
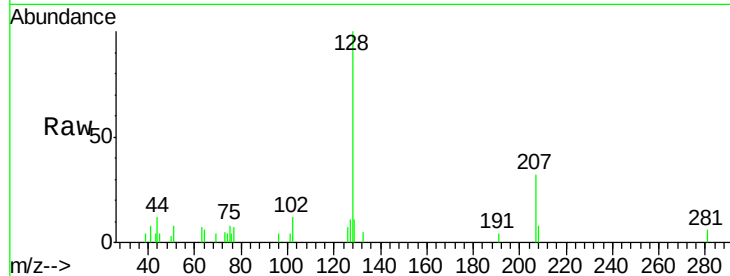




#95
Naphthalene
Concen: 1.014 ug/l
RT: 15.11 min Scan# 4147
Delta R.T. 0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:128 Resp: 8902
Ion Ratio Lower Upper
128 100
127 10.2 10.1 15.1
129 8.4 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 0.709 ug/l
RT: 15.28 min Scan# 4202
Delta R.T. -0.00 min
Lab File: VN061476.D
Acq: 19 May 2020 12:05

Tgt Ion:180 Resp: 1947
Ion Ratio Lower Upper
180 100
182 79.8 47.8 143.3
145 19.7 17.3 51.9

