

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN050620\
 Data File : VN061319.D
 Acq On : 6 May 2020 18:55
 Operator : JC/MD
 Sample : PB128691TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 07 03:13:19 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042720W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 05 07:01:08 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	110758	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	198576	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	198807	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	88025	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	90811	51.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.64%	
35) Dibromofluoromethane	7.55	113	46717	39.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.58%	
50) Toluene-d8	10.06	98	252812	52.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.62%	
62) 4-Bromofluorobenzene	12.38	95	98297	54.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.14%	

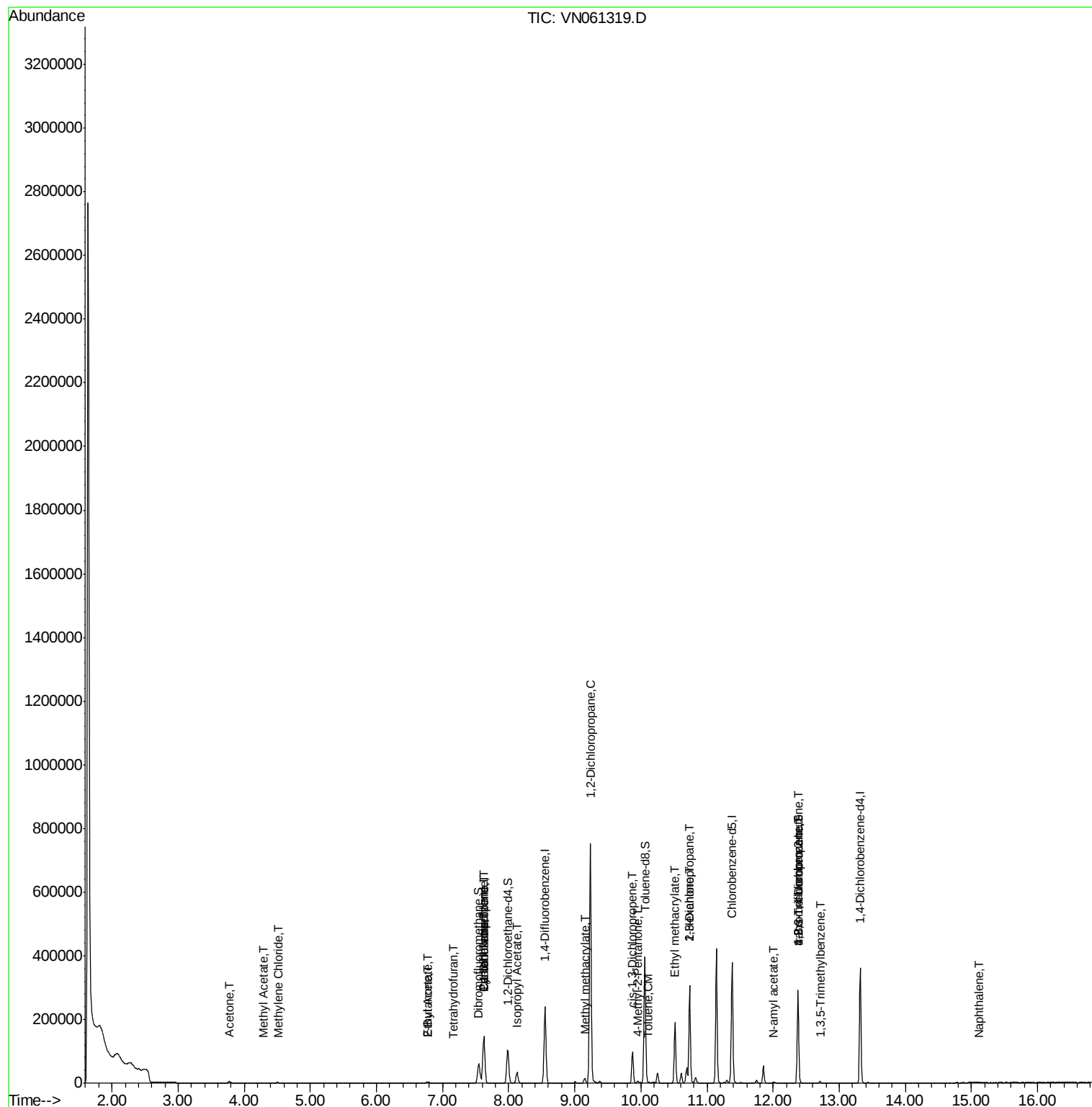
Target Compounds					Qvalue	
16) Acetone	3.78	43	8262	6.816	ug/l	95
18) Methyl Acetate	4.28	43	1368	1.289	ug/l #	55
20) Methylene Chloride	4.50	84	1251	0.915	ug/l #	82
25) 2-Butanone	6.79	43	2107	2.032	ug/l	95
29) Tetrahydrofuran	7.17	42	145	0.208	ug/l #	37
31) Cyclohexane	7.63	56	3067	1.203	ug/l #	18
36) 1,1-Dichloropropene	7.63	75	10046	5.054	ug/l #	51
37) Ethyl Acetate	6.79	43	2107	0.904	ug/l #	71
38) Carbon Tetrachloride	7.63	117	12048	8.626	ug/l #	17
43) Isopropyl Acetate	8.13	43	42038	10.869	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	820	0.518	ug/l #	44
48) Methyl methacrylate	9.14	41	2280	1.306	ug/l #	16
51) 4-Methyl-2-Pentanone	9.95	43	4956	2.177	ug/l	97
52) Toluene	10.12	92	866	0.243	ug/l	94
54) cis-1,3-Dichloropropene	9.87	75	15546	6.206	ug/l #	66
56) Ethyl methacrylate	10.52	69	608	2.959	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	2947	1.178	ug/l #	43
59) 2-Hexanone	10.74	43	48568	29.325	ug/l #	52
74) N-amyl acetate	12.00	43	2668	0.814	ug/l #	46
76) 1,2,3-Trichloropropane	12.38	75	54301	29.260	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2963	0.553	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.38	75	54301	74.305	ug/l #	8
95) Naphthalene	15.11	128	1383	0.264	ug/l #	69

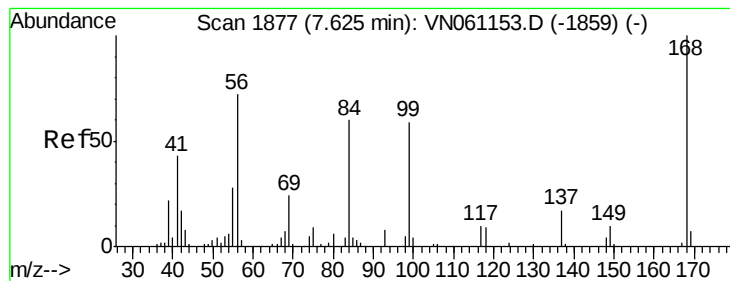
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue May 05 07:01:08 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

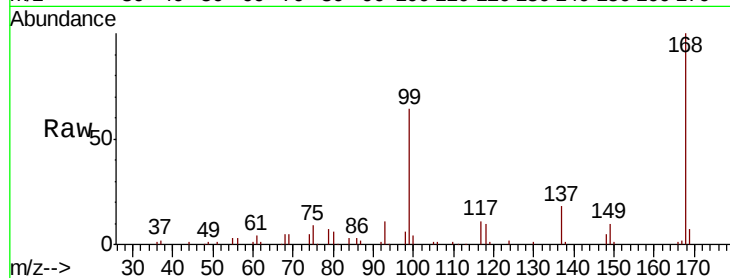
ClientSampleId :

Tot Ion:168 Resp: 110758

Ion Ratio Lower Upper

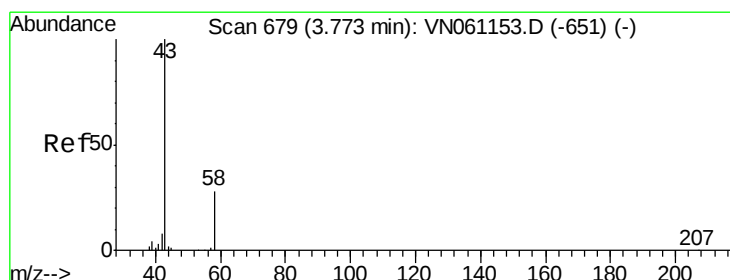
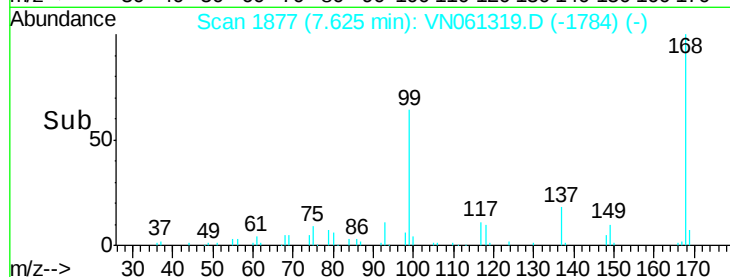
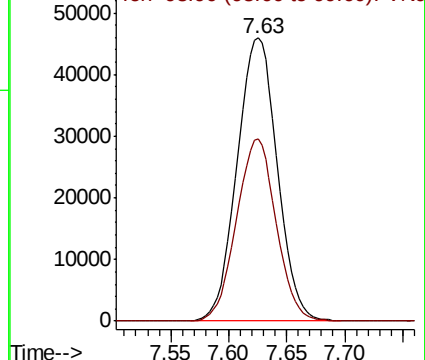
168 100

99 64.5 51.2 76.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#16

Acetone

Concen: 6.816 ug/l

RT: 3.78 min Scan# 680

Delta R.T. 0.00 min

Lab File: VN061319.D

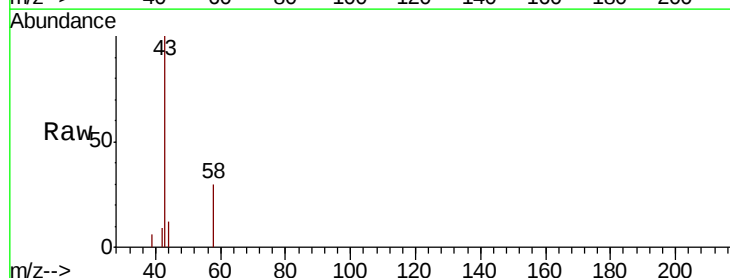
Acq: 6 May 2020 18:55

Tgt Ion: 43 Resp: 8262

Ion Ratio Lower Upper

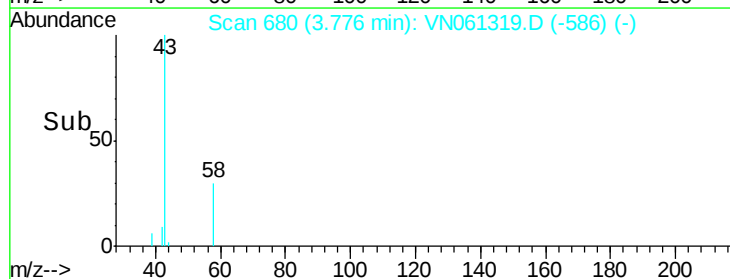
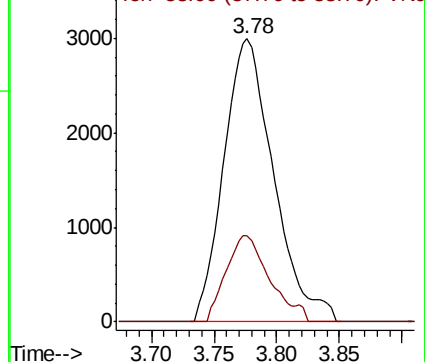
43 100

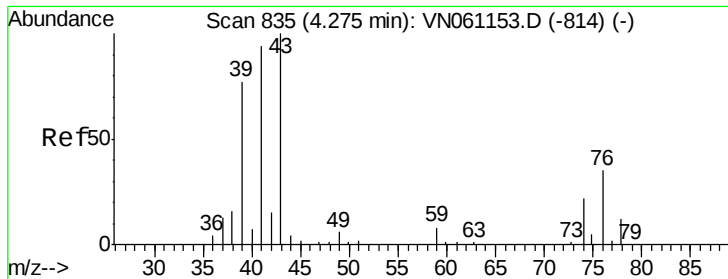
58 30.5 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

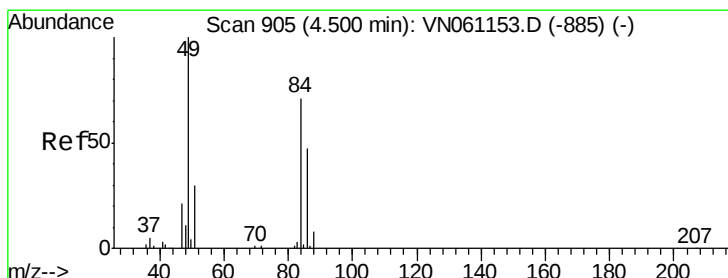
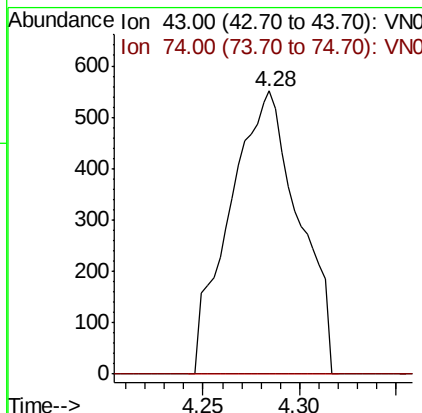
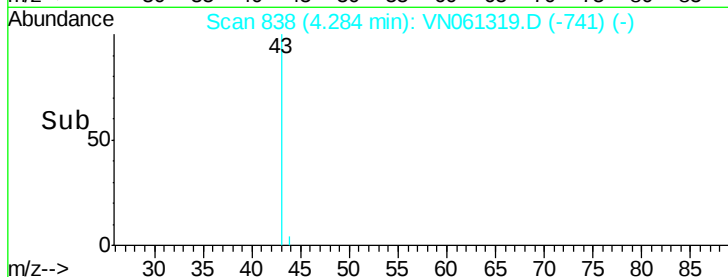
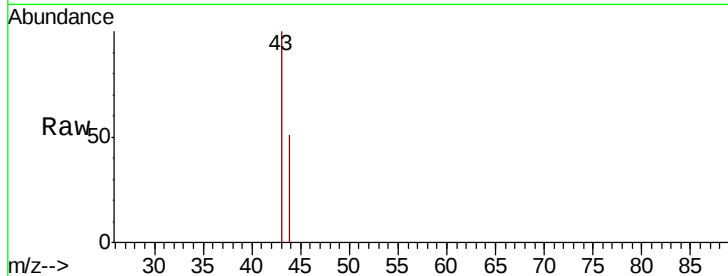




#18
Methyl Acetate
Concen: 1.289 ug/l
RT: 4.28 min Scan# 838
Delta R.T. 0.01 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

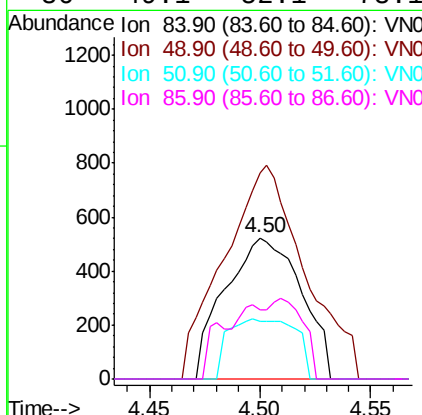
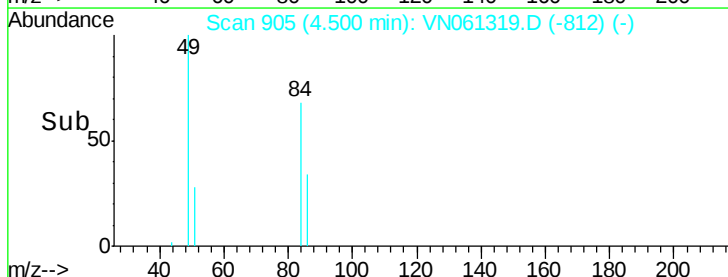
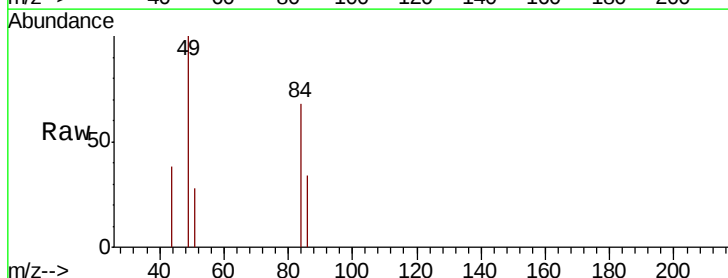
Instrument :
MSVOA_N
ClientSampled :

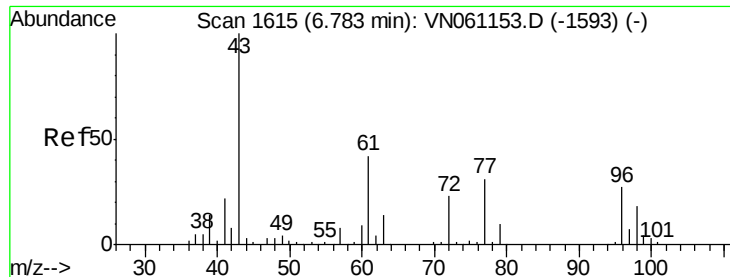
Tot Ion: 43 Resp: 1368
Ion Ratio Lower Upper
43 100
74 0.0 17.0 25.4#



#20
Methylene Chloride
Concen: 0.915 ug/l
RT: 4.50 min Scan# 905
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Tgt Ion: 84 Resp: 1251
Ion Ratio Lower Upper
84 100
49 113.0 112.0 168.0
51 41.1 33.6 50.4
86 49.1 52.1 78.1#





#25

2-Butanone

Concen: 2.032 ug/l

RT: 6.79 min Scan# 1617

Delta R.T. 0.01 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

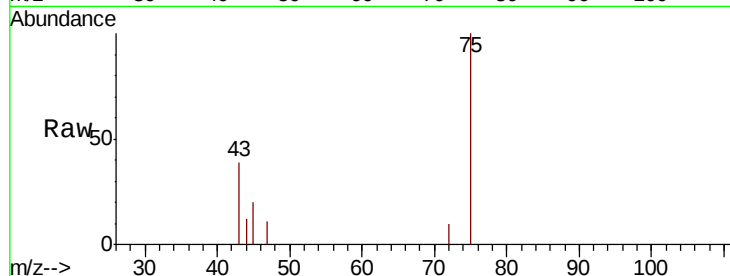
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 2107

Ion Ratio Lower Upper

43 100

72 25.1 18.2 27.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

800

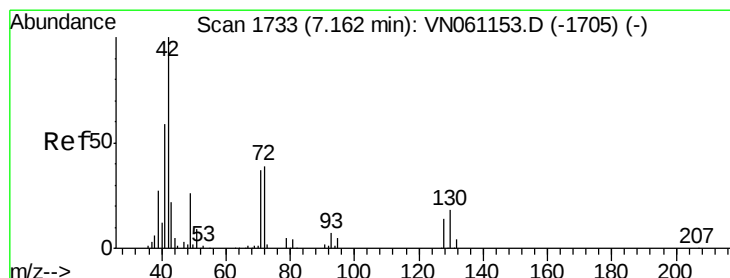
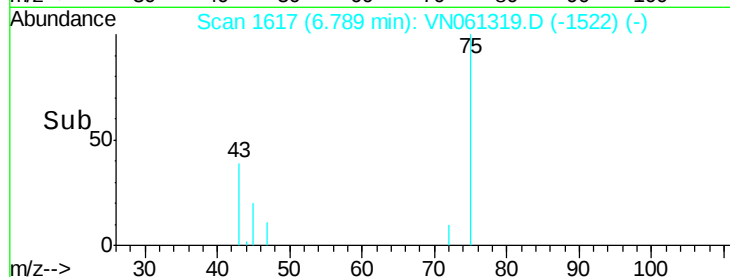
600

400

200

0

Time-->



#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 7.17 min Scan# 1735

Delta R.T. 0.01 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

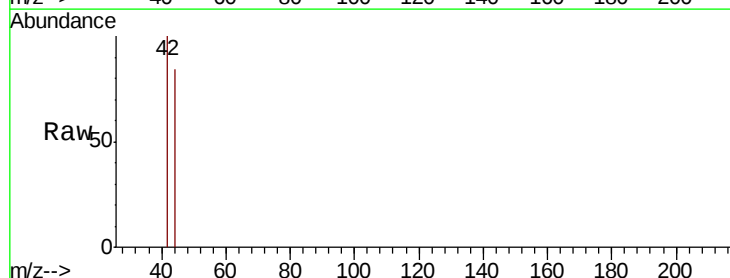
Tgt Ion: 42 Resp: 145

Ion Ratio Lower Upper

42 100

72 0.0 31.4 47.0#

71 0.0 29.5 44.3#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.17

250

200

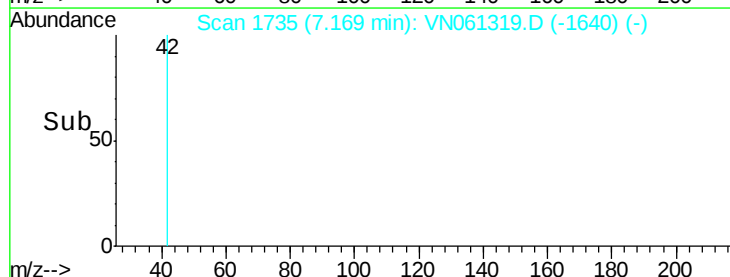
150

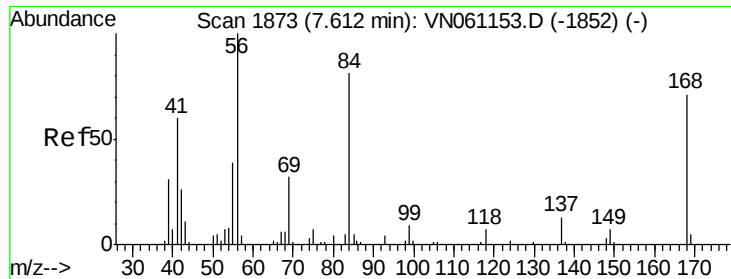
100

50

0

Time-->

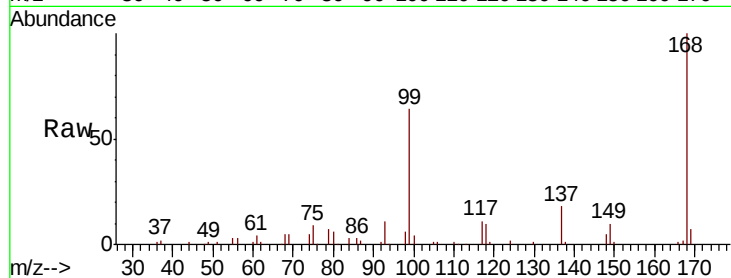




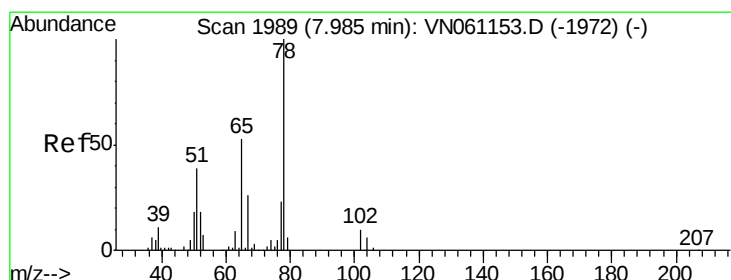
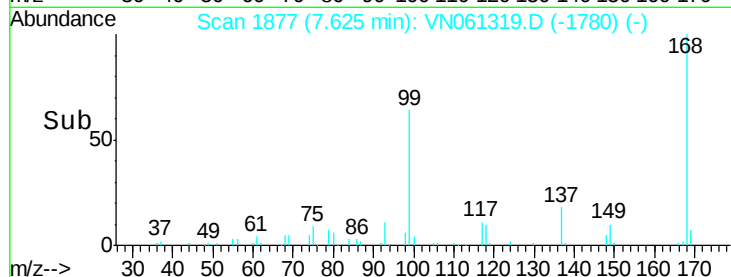
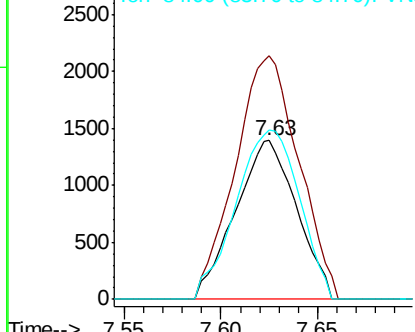
#31
Cyclohexane
Concen: 1.203 ug/l
RT: 7.63 min Scan# 1877
Delta R.T. 0.01 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 3067
Ion Ratio Lower Upper
56 100
69 153.4 25.7 38.5#
84 106.5 64.6 97.0#

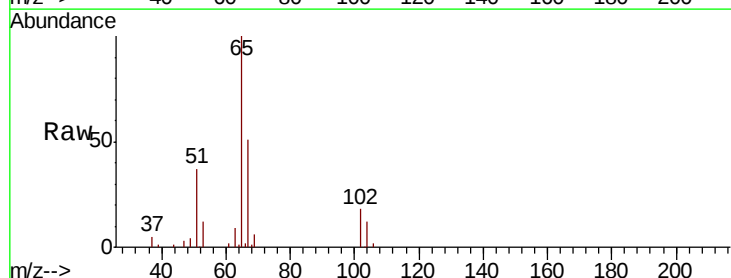


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

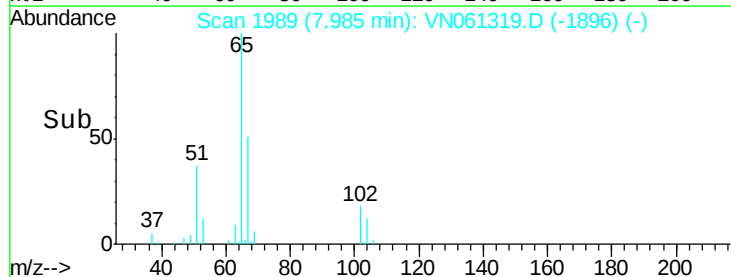
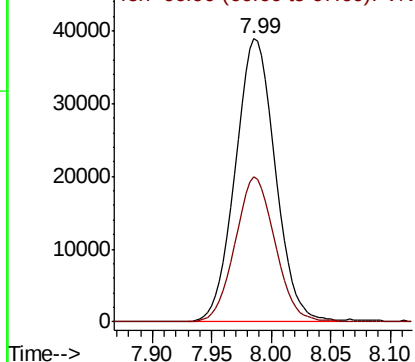


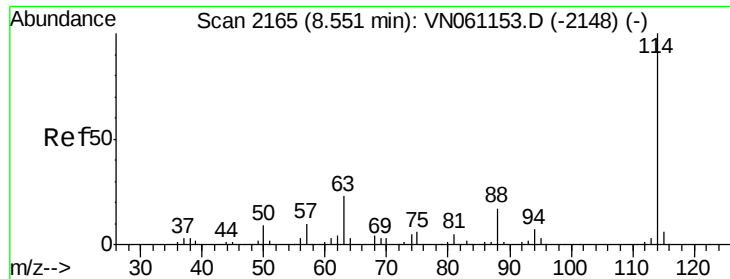
#33
1,2-Dichloroethane-d4
Concen: 51.817 ug/l
RT: 7.99 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Tgt Ion: 65 Resp: 90811
Ion Ratio Lower Upper
65 100
67 51.0 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

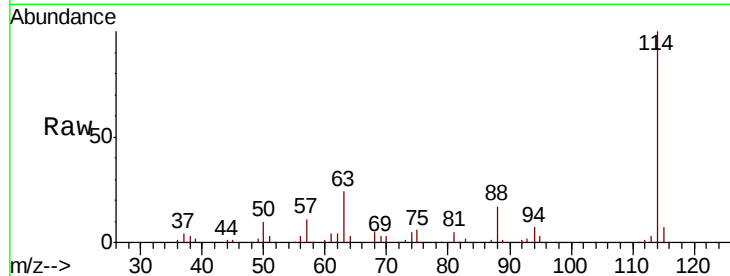




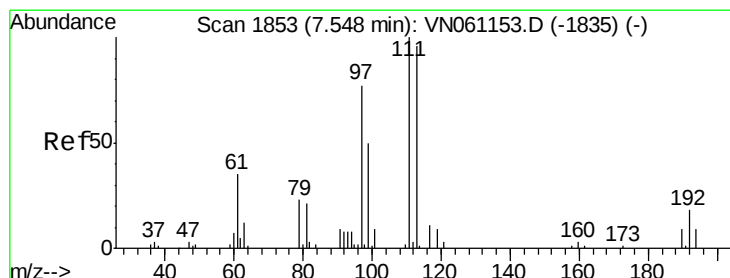
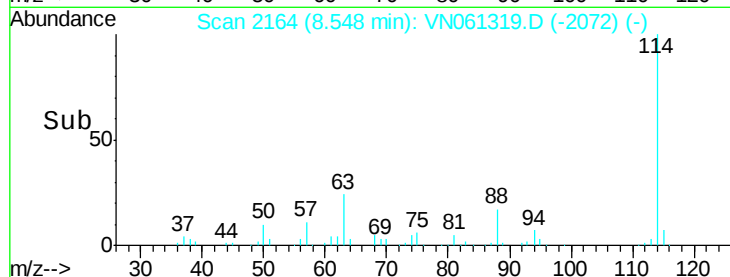
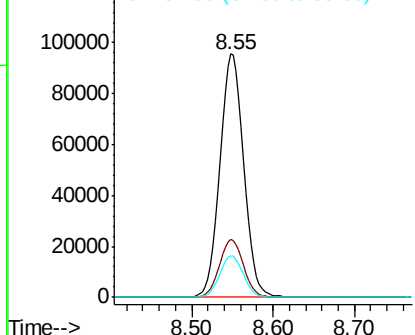
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VN061319.D
 Acq: 6 May 2020 18:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 198576
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 46.6
 88 17.2 0.0 33.4

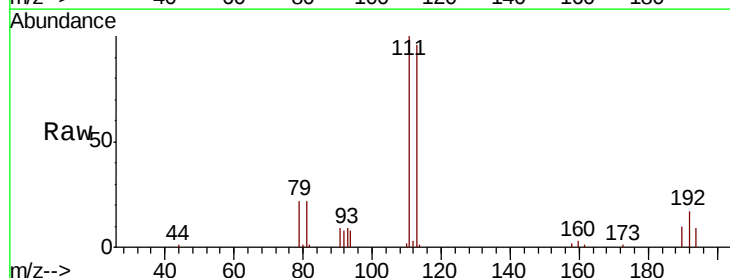


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

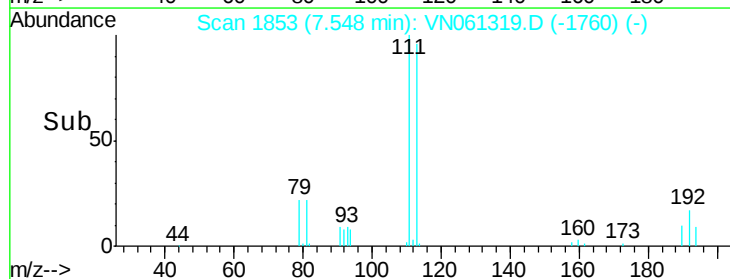
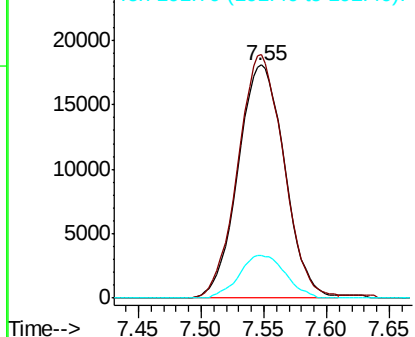


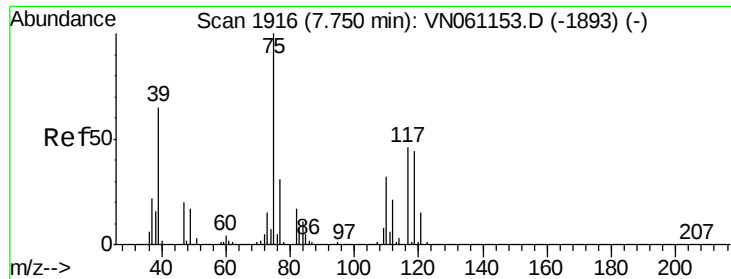
#35
 Dibromofluoromethane
 Concen: 39.785 ug/l
 RT: 7.55 min Scan# 1853
 Delta R.T. 0.00 min
 Lab File: VN061319.D
 Acq: 6 May 2020 18:55

Tgt Ion:113 Resp: 46717
 Ion Ratio Lower Upper
 113 100
 111 103.1 82.9 124.3
 192 18.1 14.7 22.1



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: 5.054 ug/l

RT: 7.63 min Scan# 1877

Delta R.T. -0.13 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

ClientSampled :

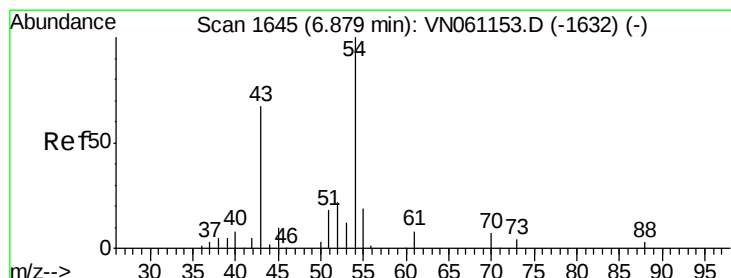
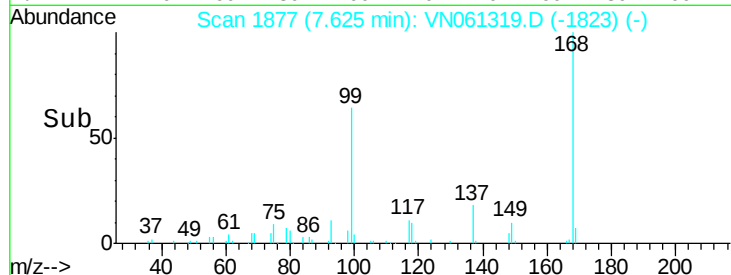
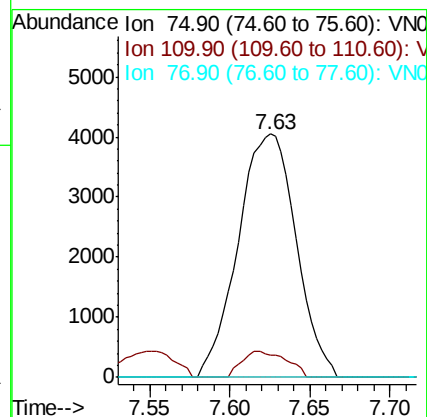
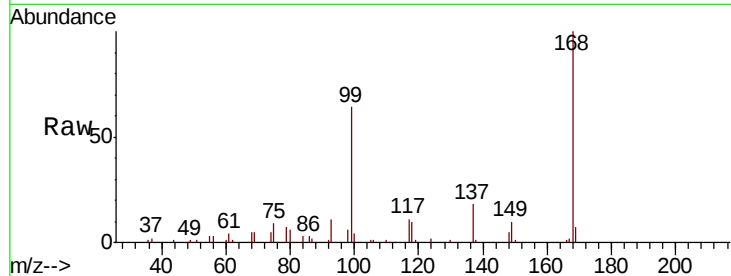
Tot Ion: 75 Resp: 10046

Ion Ratio Lower Upper

75 100

110 8.2 16.0 48.0#

77 0.0 24.6 37.0#



#37

Ethyl Acetate

Concen: 0.904 ug/l

RT: 6.79 min Scan# 1617

Delta R.T. -0.09 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

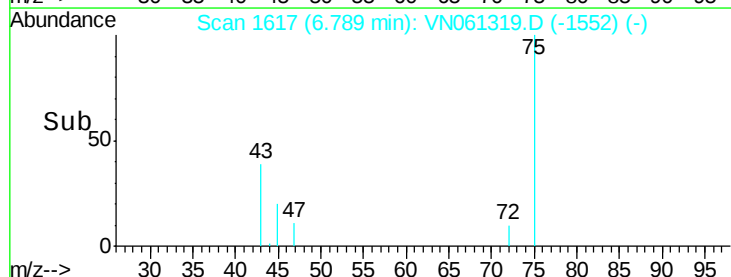
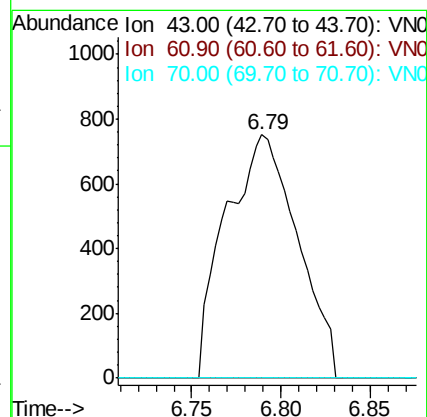
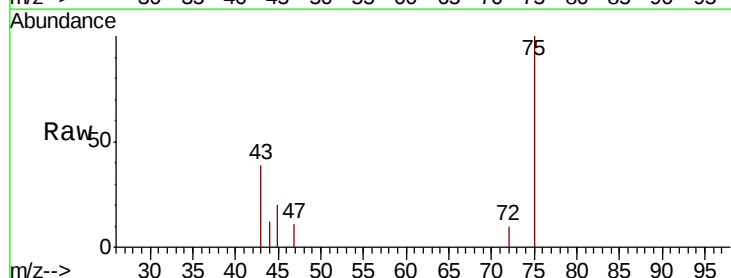
Tgt Ion: 43 Resp: 2107

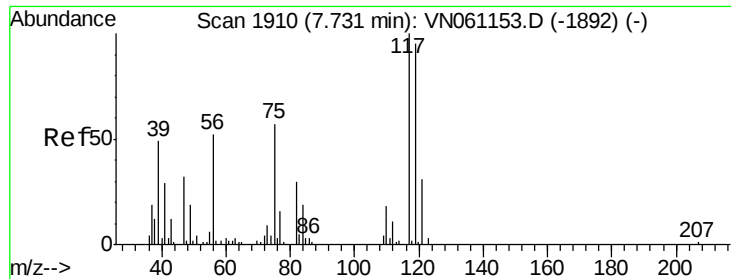
Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

70 0.0 7.2 10.8#

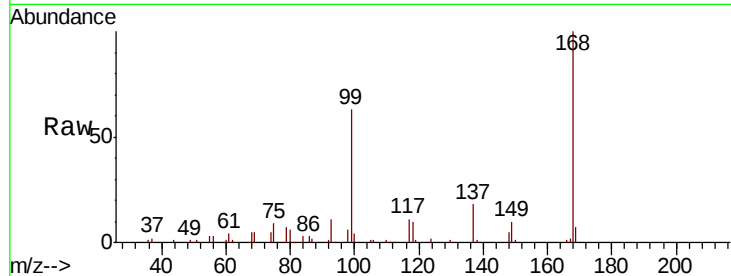




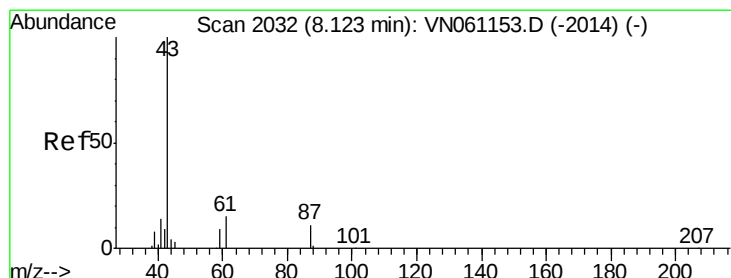
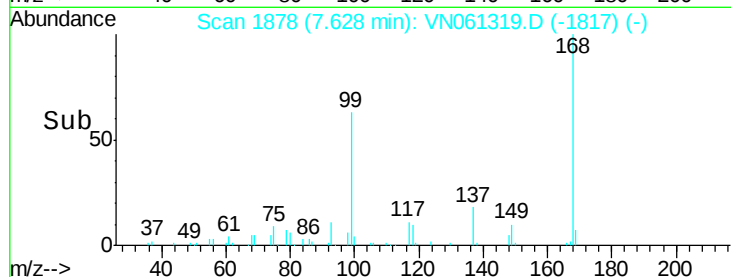
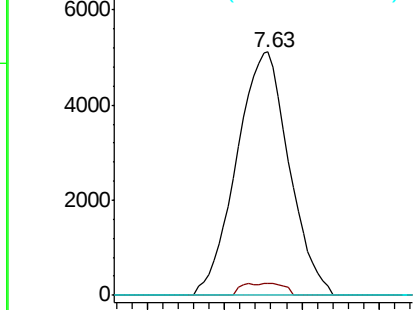
#38
Carbon Tetrachloride
Concen: 8.626 ug/l
RT: 7.63 min Scan# 1878
Delta R.T. -0.10 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 12048
Ion Ratio Lower Upper
117 100
119 5.1 75.8 113.6#
121 0.0 24.7 37.1#

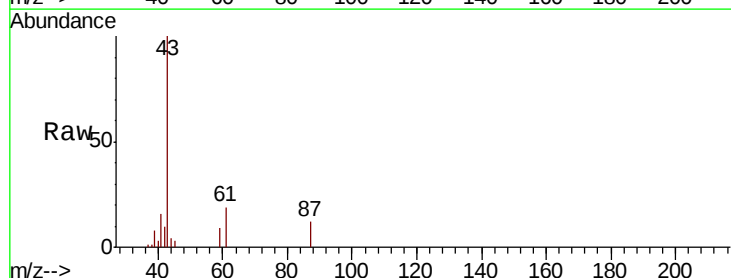


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

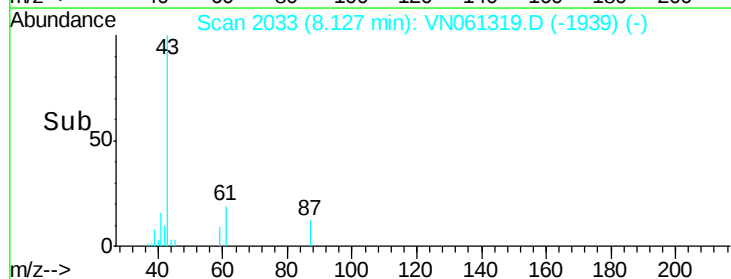
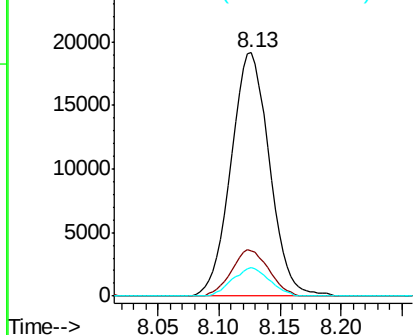


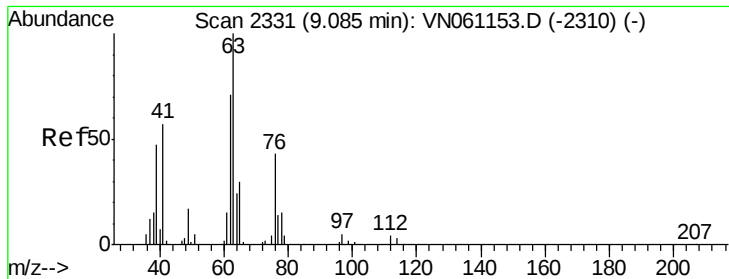
#43
Isopropyl Acetate
Concen: 10.869 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Tgt Ion: 43 Resp: 42038
Ion Ratio Lower Upper
43 100
61 18.4 19.5 29.3#
87 11.1 8.9 13.3



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.518 ug/l

RT: 9.23 min Scan# 2377

Delta R.T. 0.15 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

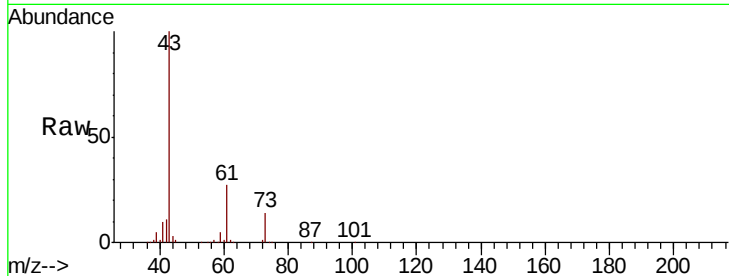
ClientSampled :

Tot Ion: 63 Resp: 820

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

500

400

300

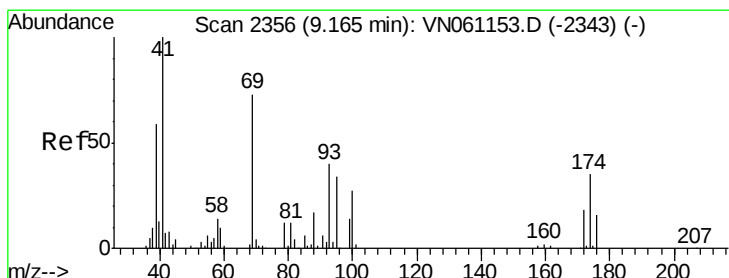
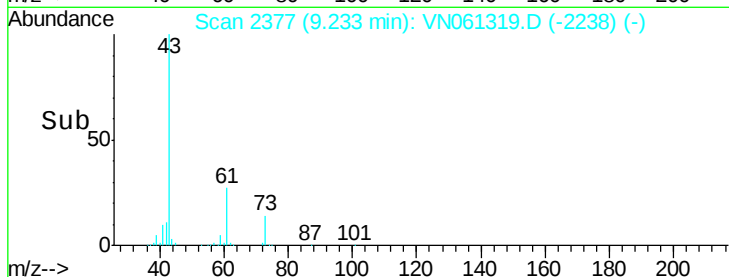
200

100

0

9.20 9.22 9.24 9.26

Time-->



#48

Methyl methacrylate

Concen: 1.306 ug/l

RT: 9.14 min Scan# 2349

Delta R.T. -0.02 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

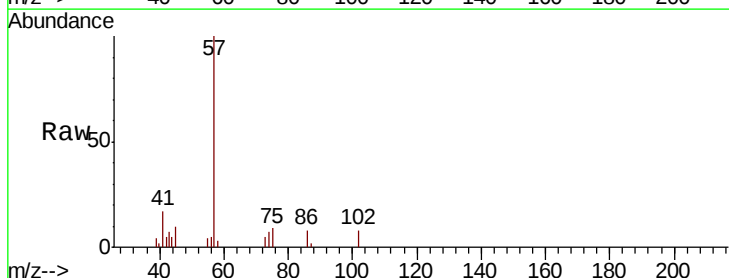
Tgt Ion: 41 Resp: 2280

Ion Ratio Lower Upper

41 100

69 0.0 60.3 90.5#

39 0.0 47.4 71.0#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

20000

15000

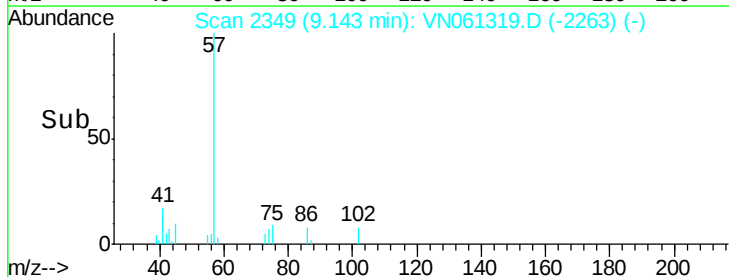
10000

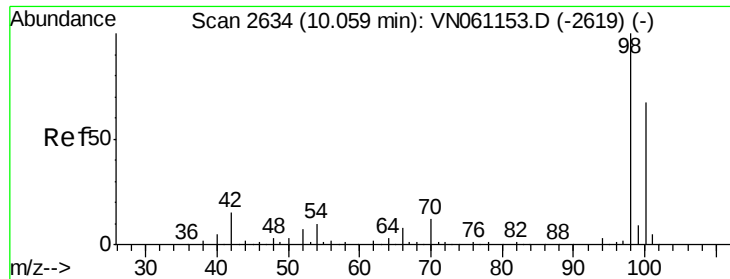
5000

0

9.10 9.15 9.20

Time-->





#50

Toluene-d8

Concen: 52.815 ug/l

RT: 10.06 min Scan# 2634

Delta R.T. 0.00 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

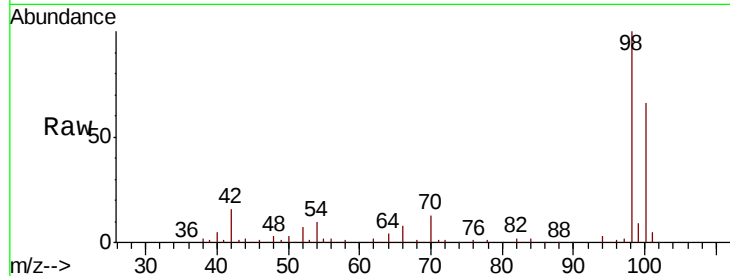
ClientSampled :

Tot Ion: 98 Resp: 252812

Ion Ratio Lower Upper

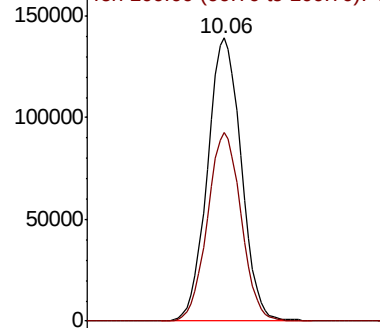
98 100

100 66.6 53.4 80.0

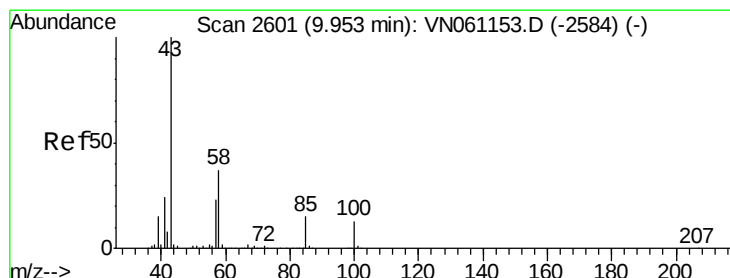
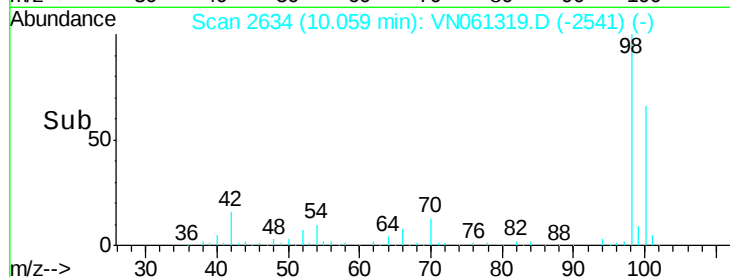


Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



Time-->



#51

4-Methyl-2-Pentanone

Concen: 2.177 ug/l

RT: 9.95 min Scan# 2600

Delta R.T. -0.00 min

Lab File: VN061319.D

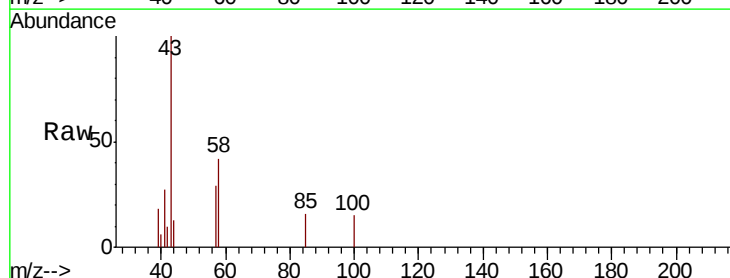
Acq: 6 May 2020 18:55

Tgt Ion: 43 Resp: 4956

Ion Ratio Lower Upper

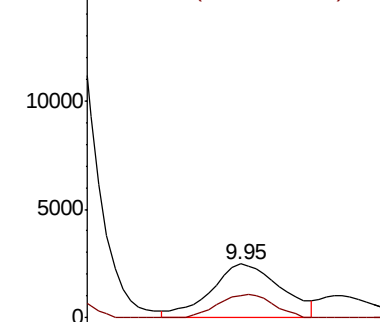
43 100

58 34.5 29.1 43.7

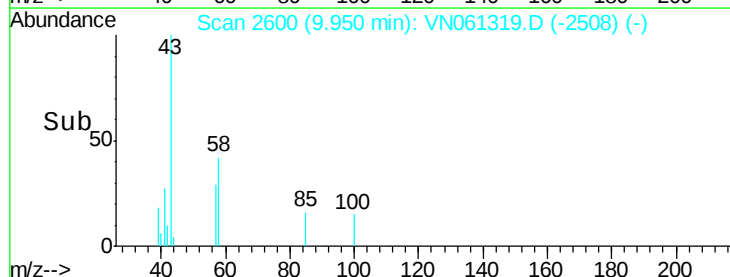


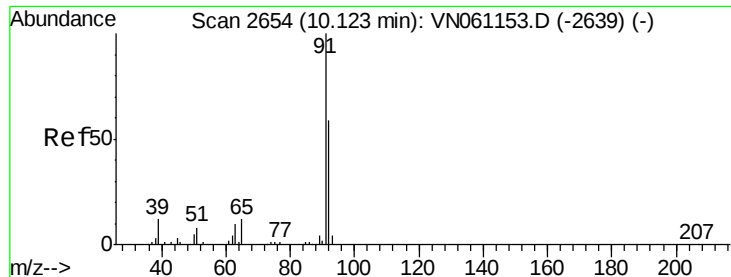
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->





#52

Toluene

Concen: 0.243 ug/l

RT: 10.12 min Scan# 2653

Delta R.T. -0.00 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

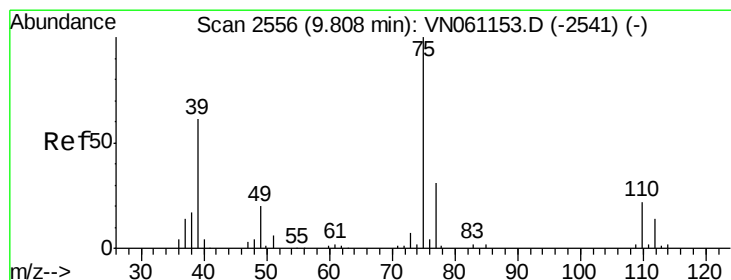
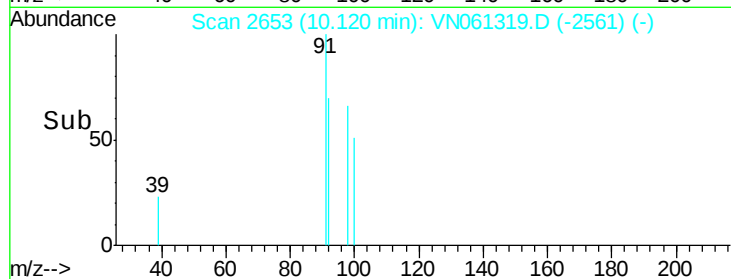
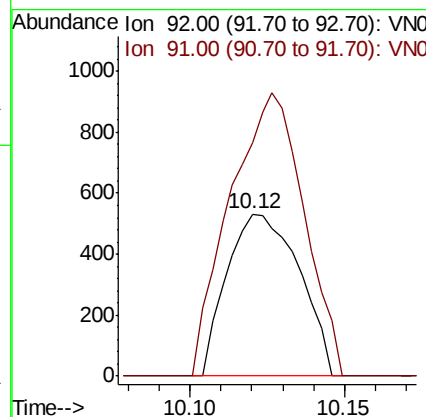
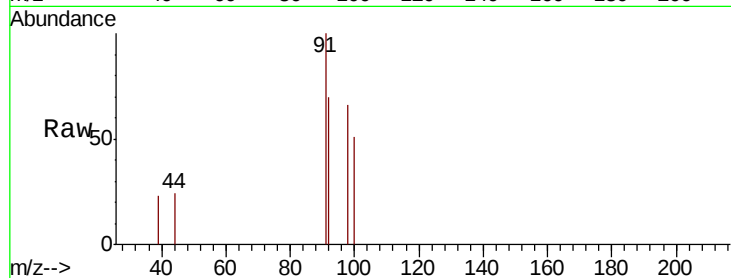
ClientSampled :

Tot Ion: 92 Resp: 866

Ion Ratio Lower Upper

92 100

91 178.6 136.2 204.2



#54

cis-1,3-Dichloropropene

Concen: 6.206 ug/l

RT: 9.87 min Scan# 2576

Delta R.T. 0.06 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

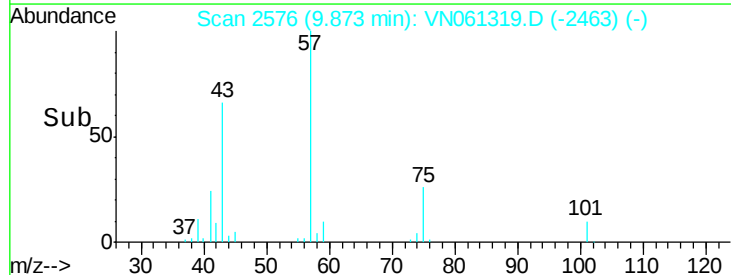
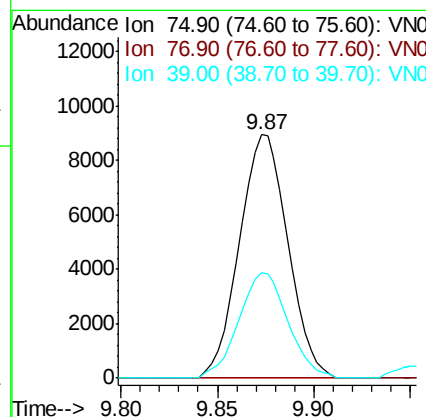
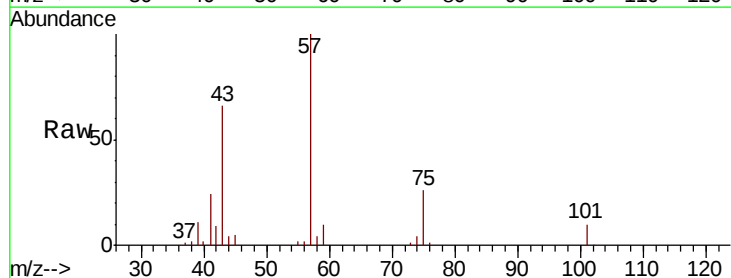
Tgt Ion: 75 Resp: 15546

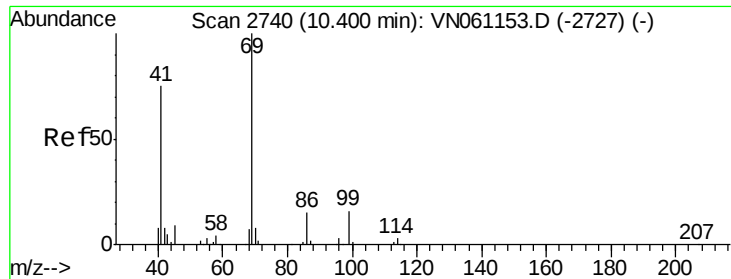
Ion Ratio Lower Upper

75 100

77 0.0 25.0 37.4#

39 43.3 48.7 73.1#





#56

Ethyl methacrylate

Concen: 2.959 ug/l

RT: 10.52 min Scan# 2776

Delta R.T. 0.12 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

ClientSampled :

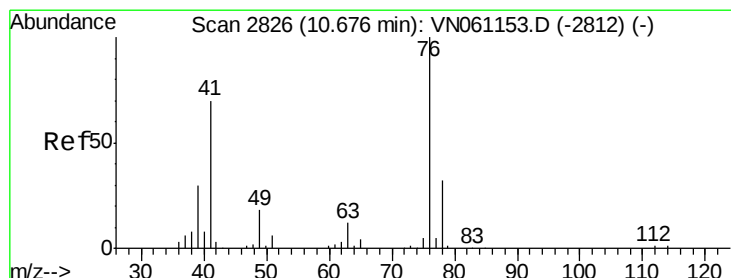
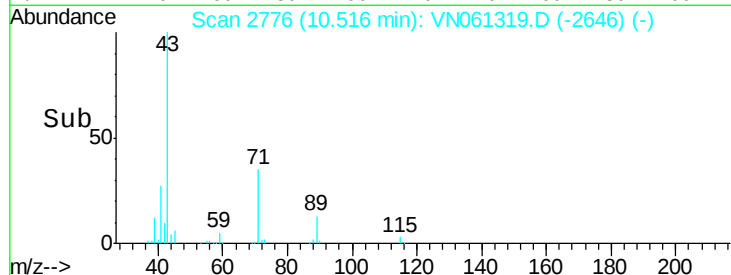
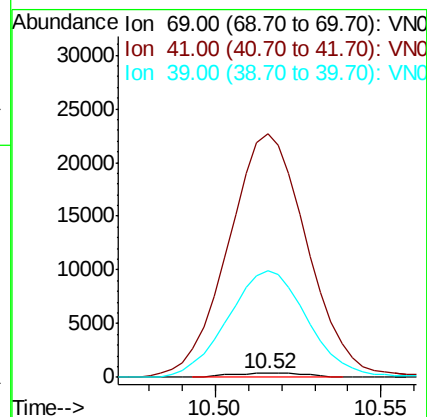
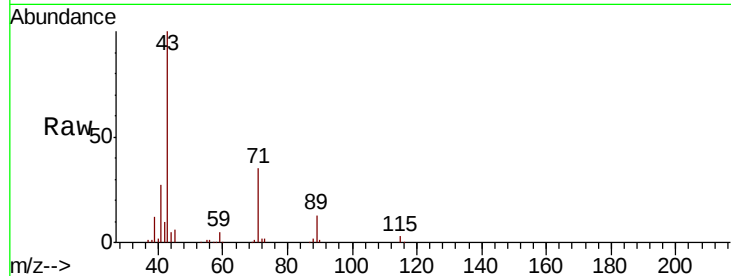
Tot Ion: 69 Resp: 608

Ion Ratio Lower Upper

69 100

41 6243.9 60.3 90.5#

39 2732.7 35.9 53.9#



#57

1,3-Dichloropropane

Concen: 1.178 ug/l

RT: 10.74 min Scan# 2845

Delta R.T. 0.06 min

Lab File: VN061319.D

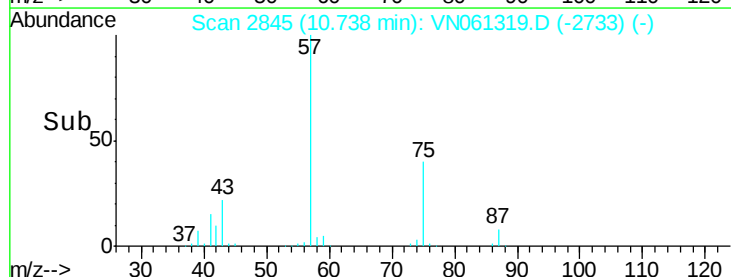
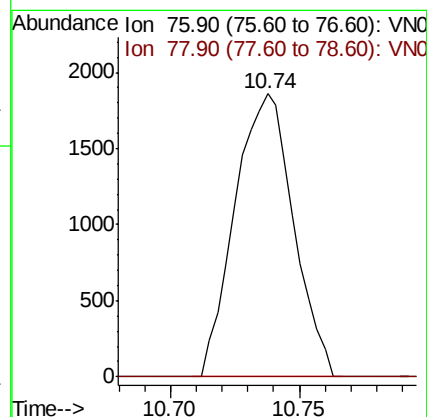
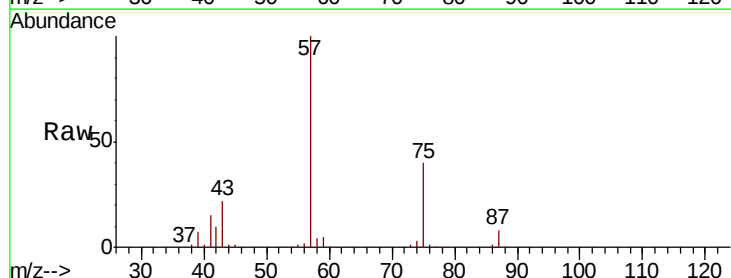
Acq: 6 May 2020 18:55

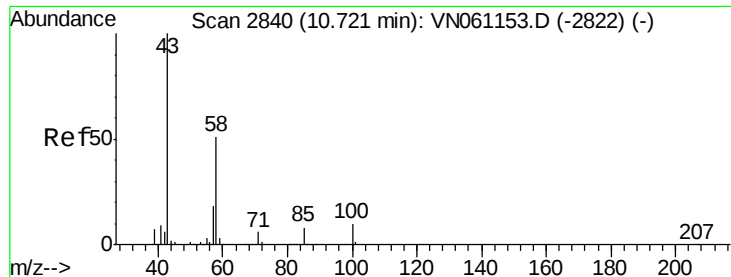
Tgt Ion: 76 Resp: 2947

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#

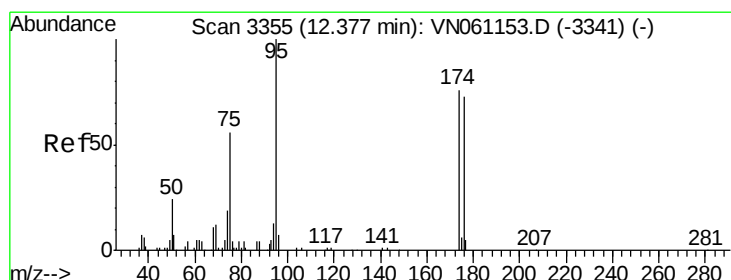
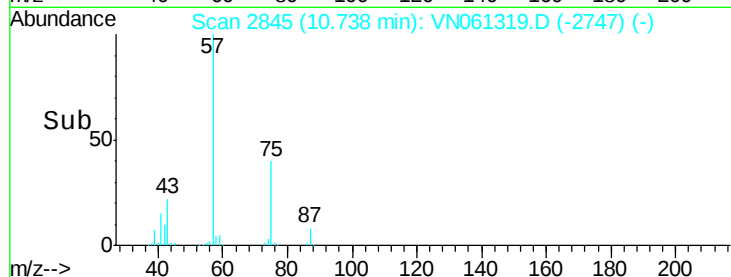
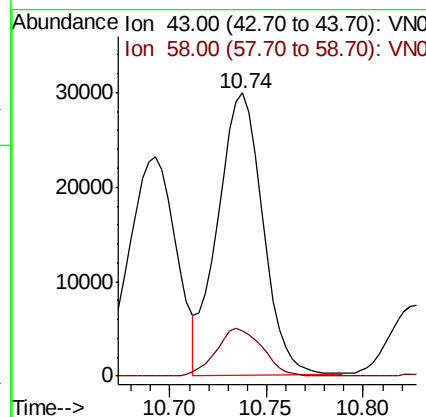
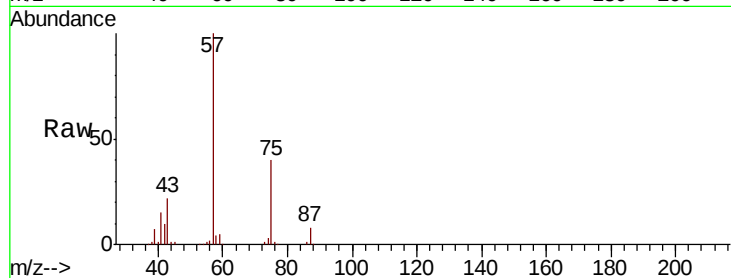




#59
2-Hexanone
Concen: 29.325 ug/l
RT: 10.74 min Scan# 2845
Delta R.T. 0.02 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

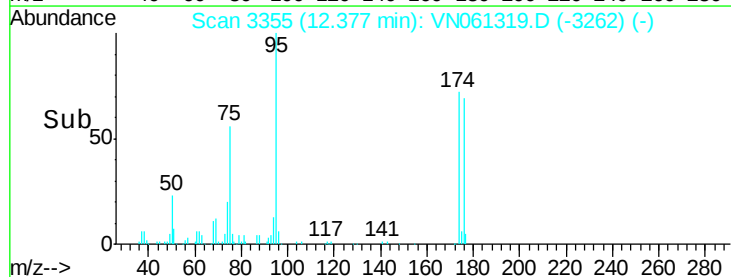
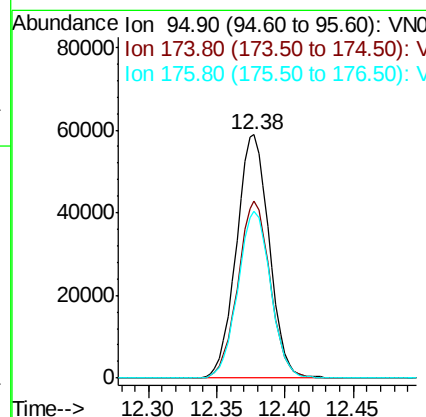
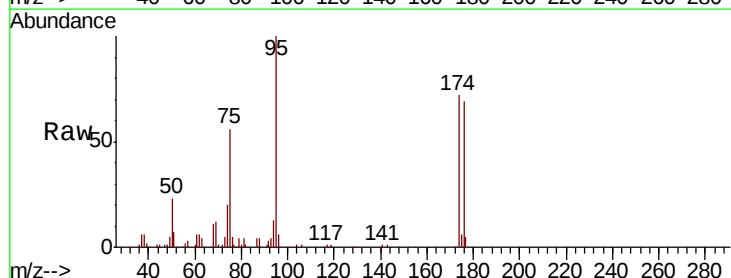
Instrument :
MSVOA_N
ClientSampleId :

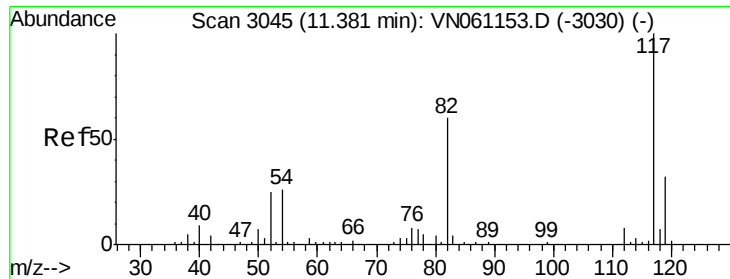
Tot Ion: 43 Resp: 48568
Ion Ratio Lower Upper
43 100
58 17.3 25.4 76.4#



#62
4-Bromofluorobenzene
Concen: 54.569 ug/l
RT: 12.38 min Scan# 3355
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Tgt Ion: 95 Resp: 98297
Ion Ratio Lower Upper
95 100
174 71.7 0.0 149.4
176 68.4 0.0 144.8

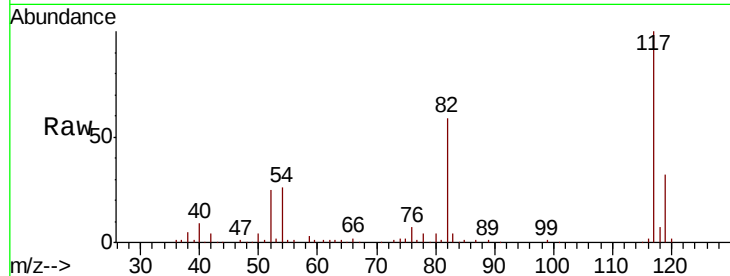




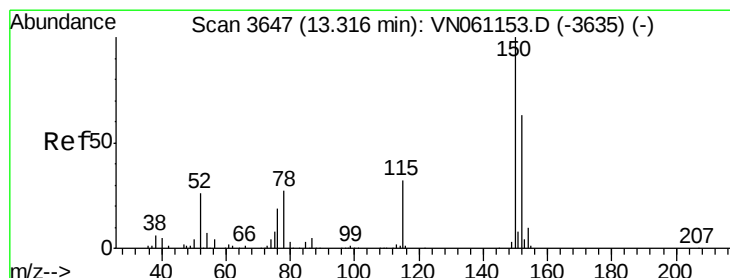
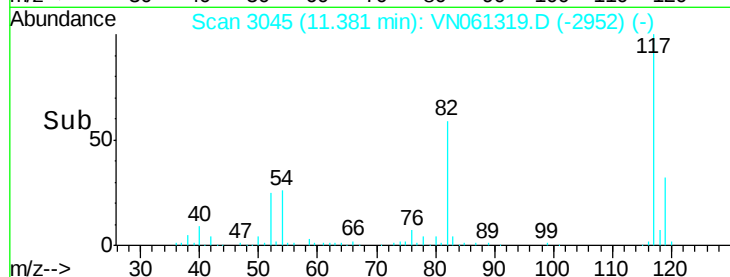
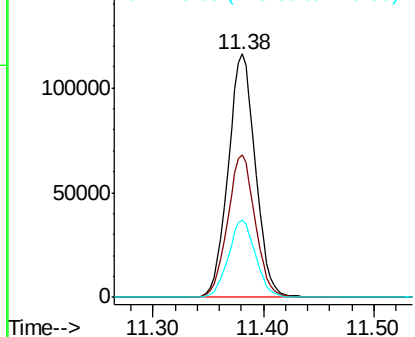
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 3045
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 198807
Ion Ratio Lower Upper
117 100
82 58.5 47.8 71.8
119 31.8 25.8 38.6

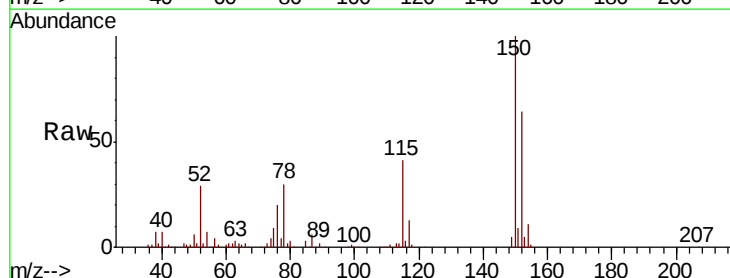


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

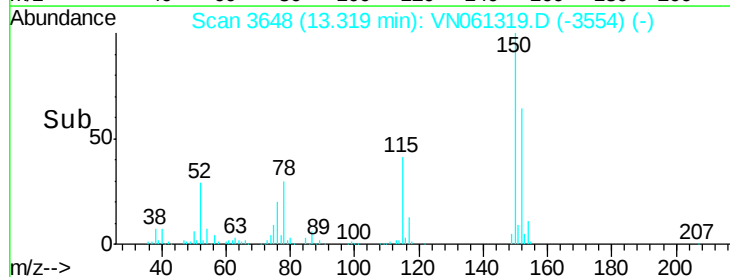
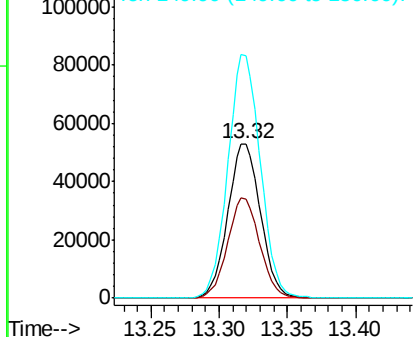


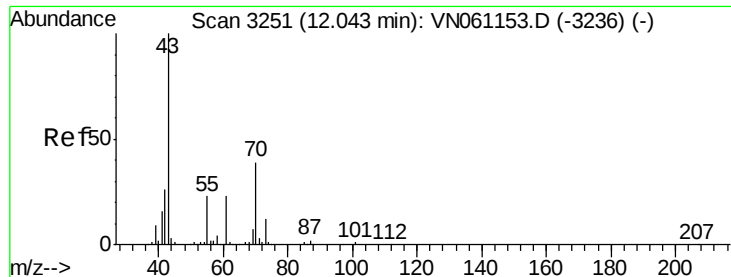
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3648
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Tgt Ion:152 Resp: 88025
Ion Ratio Lower Upper
152 100
115 63.6 31.0 93.0
150 157.0 0.0 351.8



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.814 ug/l

RT: 12.00 min Scan# 3239

Delta R.T. -0.04 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2668

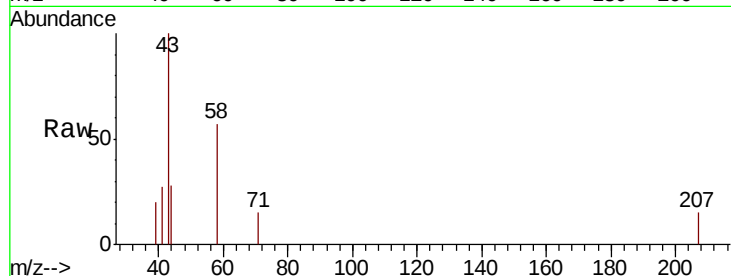
Ion Ratio Lower Upper

43 100

70 0.0 30.6 46.0#

55 0.0 18.5 27.7#

61 0.0 17.9 26.9#

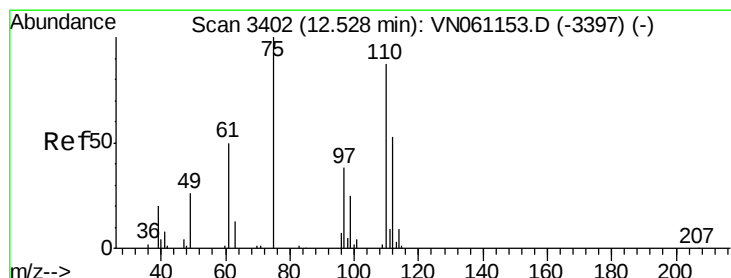
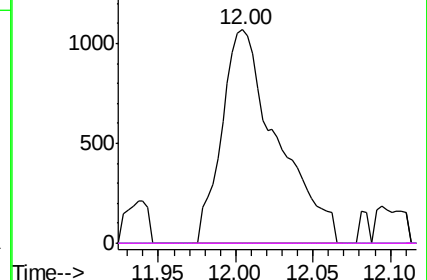
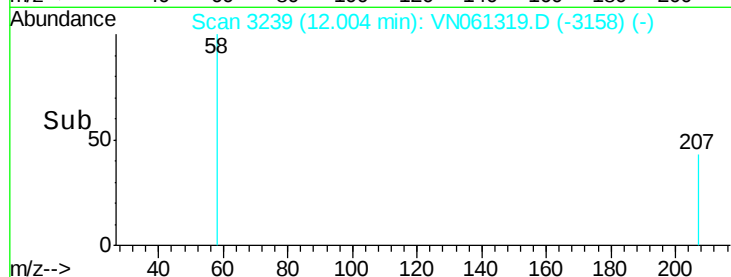


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.260 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. -0.15 min

Lab File: VN061319.D

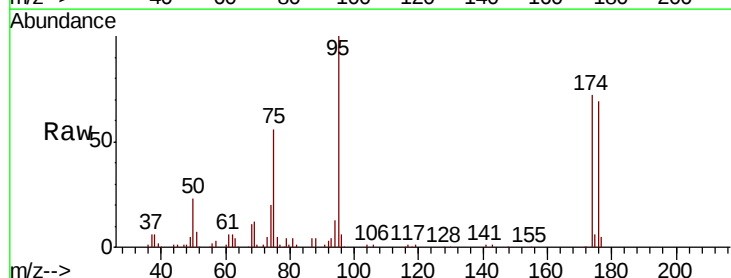
Acq: 6 May 2020 18:55

Tgt Ion: 75 Resp: 54301

Ion Ratio Lower Upper

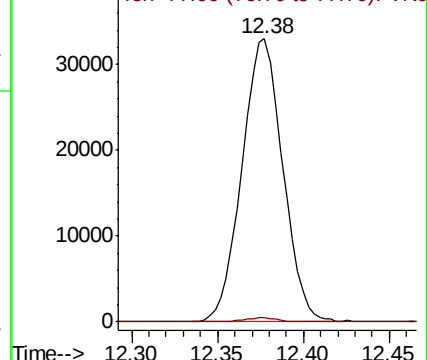
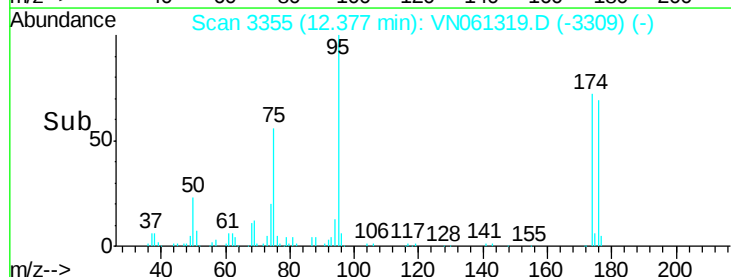
75 100

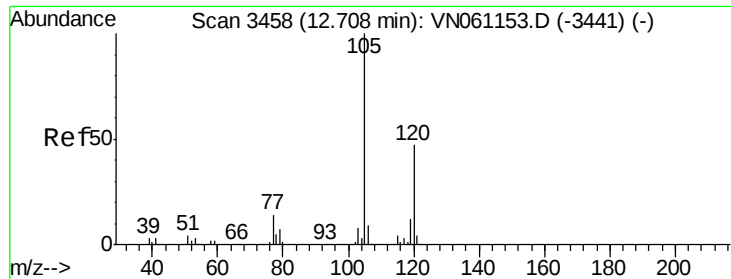
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.553 ug/l

RT: 12.71 min Scan# 3458

Delta R.T. 0.00 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

Instrument :

MSVOA_N

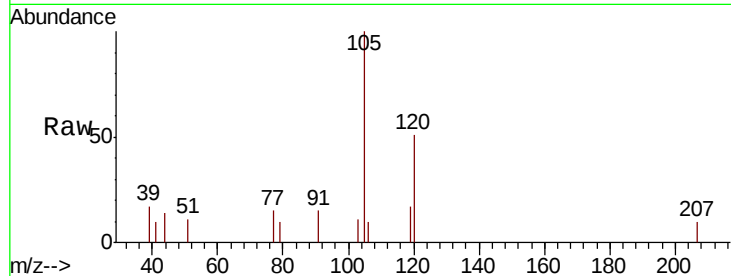
ClientSampled :

Tot Ion:105 Resp: 2963

Ion Ratio Lower Upper

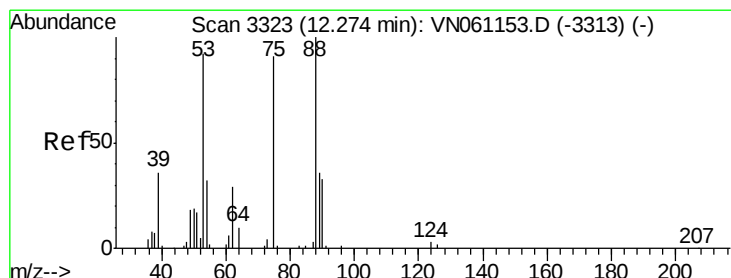
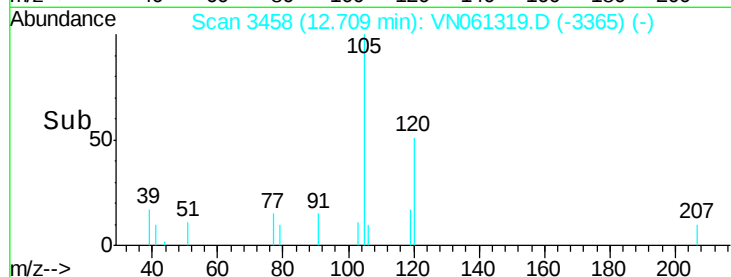
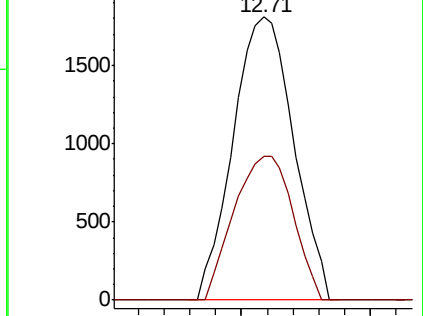
105 100

120 49.6 23.9 71.7



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 74.305 ug/l

RT: 12.38 min Scan# 3355

Delta R.T. 0.10 min

Lab File: VN061319.D

Acq: 6 May 2020 18:55

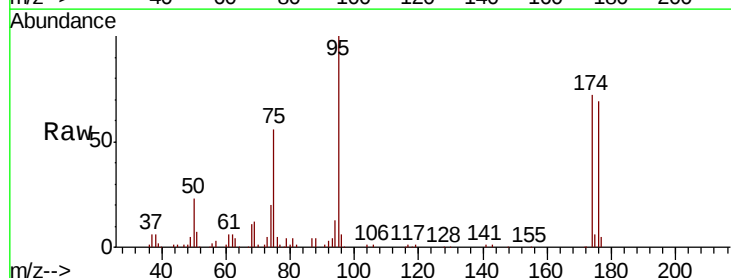
Tgt Ion: 75 Resp: 54301

Ion Ratio Lower Upper

75 100

53 0.0 84.1 126.1#

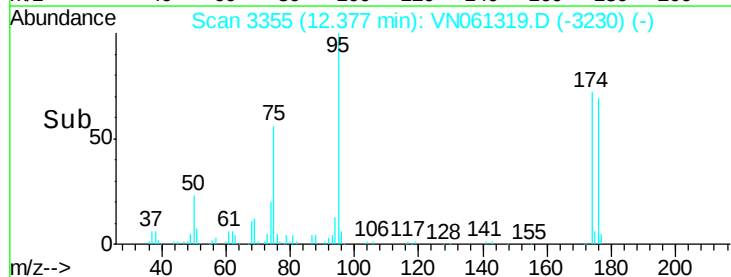
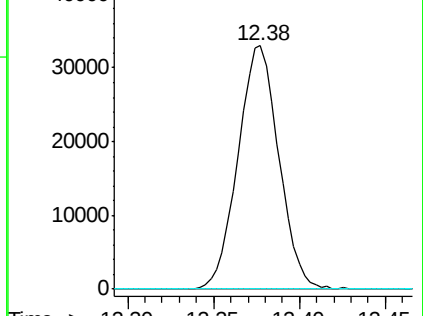
89 0.0 35.2 52.8#

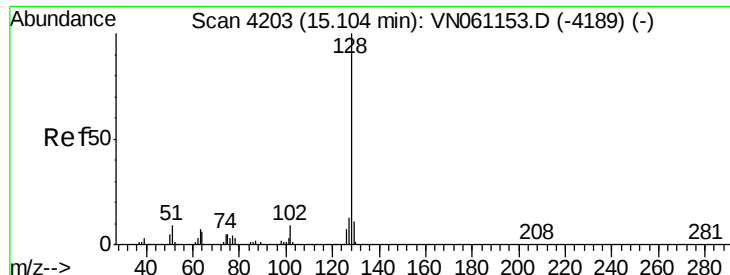


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95
Naphthalene
Concen: 0.264 ug/l
RT: 15.11 min Scan# 4204
Delta R.T. 0.00 min
Lab File: VN061319.D
Acq: 6 May 2020 18:55

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 1383
Ion Ratio Lower Upper
128 100
127 0.0 10.4 15.6#
129 0.0 8.7 13.1#

