

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081320\
 Data File : VN062918.D
 Acq On : 13 Aug 2020 18:29
 Operator : JC/MD
 Sample : PB130936ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#01

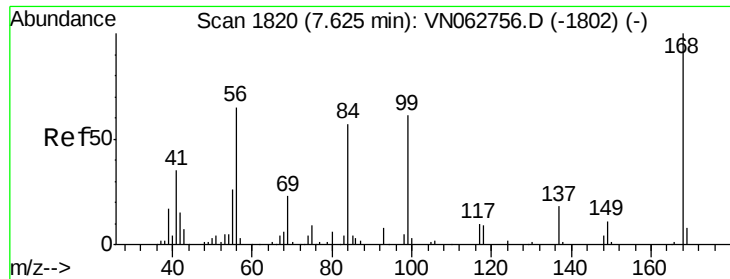
Quant Time: Aug 14 05:10:02 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080520W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 05 13:26:42 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	121978	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	215480	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	230722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	84462	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	107313	53.20	ug/l	0.00
Spiked Amount			Recovery	=	106.40%	
35) Dibromofluoromethane	7.55	113	74715	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
50) Toluene-d8	10.06	98	291337	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
62) 4-Bromofluorobenzene	12.38	95	108648	49.96	ug/l	0.00
Spiked Amount			Recovery	=	99.92%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.69	59	3625	10.965	ug/l #	72
16) Acetone	3.78	43	17344	23.796	ug/l	100
17) Carbon Disulfide	4.00	76	164	Below Cal	#	74
18) Methyl Acetate	4.28	43	1505	Below Cal	#	78
20) Methylene Chloride	4.50	84	12795	8.969	ug/l	95
25) 2-Butanone	6.79	43	3919	3.796	ug/l	98
29) Tetrahydrofuran	7.17	42	315	0.470	ug/l #	66
31) Cyclohexane	7.63	56	3170	1.296	ug/l #	30
36) 1,1-Dichloropropene	7.62	75	10539	5.023	ug/l #	53
38) Carbon Tetrachloride	7.63	117	13380	5.392	ug/l #	15
43) Isopropyl Acetate	8.13	43	40184	10.992	ug/l	99
48) Methyl methacrylate	9.15	41	2563	1.425	ug/l #	13
51) 4-Methyl-2-Pentanone	9.96	43	4402	1.861	ug/l	87
54) cis-1,3-Dichloropropene	9.88	75	17203	6.247	ug/l #	65
56) Ethyl methacrylate	10.52	69	1116	0.449	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	3194	1.139	ug/l #	43
59) 2-Hexanone	10.74	43	45573	25.829	ug/l #	53
74) N-amyl acetate	12.01	43	914	0.355	ug/l #	44
76) 1,2,3-Trichloropropane	12.38	75	59673	26.197	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1933	0.350	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	59673	79.972	ug/l #	10
95) Naphthalene	15.12	128	532	3.835	ug/l #	68

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN062918.D

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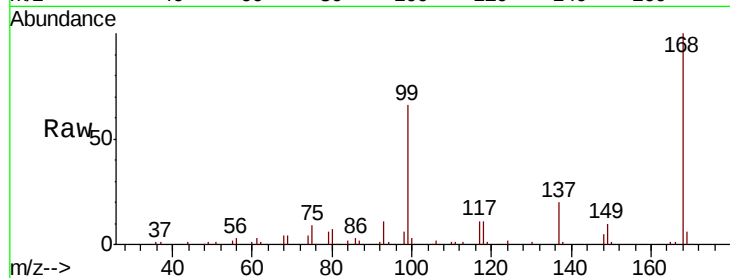
PB130936ZHE#01

Tot Ion:168 Resp: 121978

Ion Ratio Lower Upper

168 100

99 66.1 52.9 79.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

50000

40000

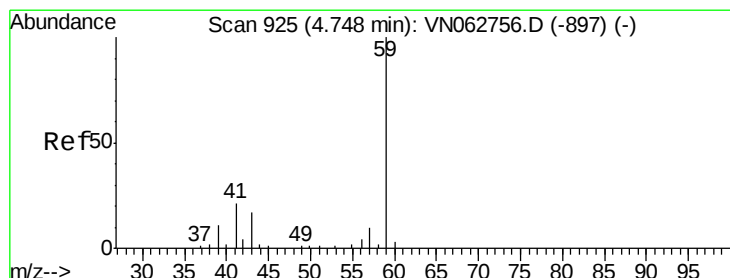
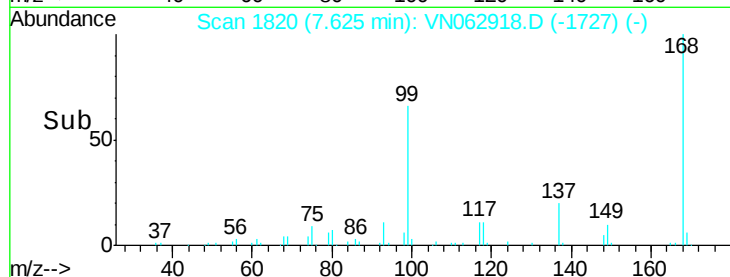
30000

20000

10000

0

Time--> 7.50 7.60 7.70



#11

Tert butyl alcohol

Concen: 10.965 ug/l

RT: 4.69 min Scan# 908

Delta R.T. -0.05 min

Lab File: VN062918.D

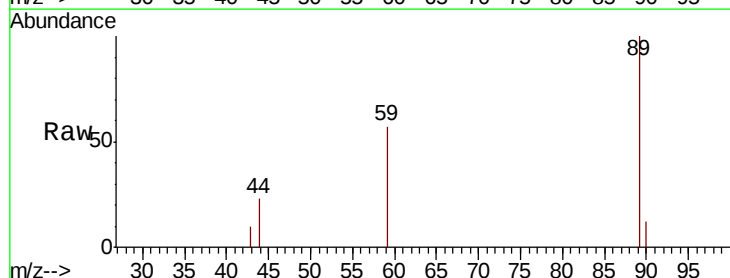
Acq: 13 Aug 2020 18:29

Tgt Ion: 59 Resp: 3625

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.69

1200

1000

800

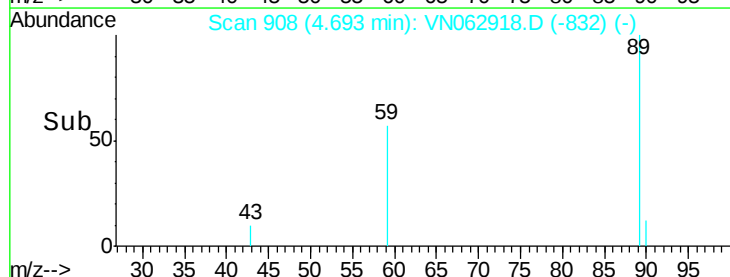
600

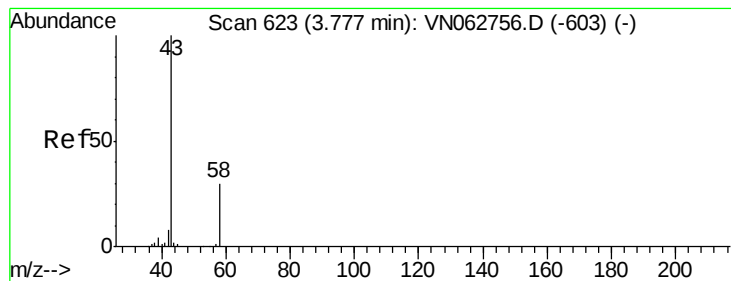
400

200

0

Time--> 4.60 4.65 4.70 4.75 4.80





#16

Acetone

Concen: 23.796 ug/l

RT: 3.78 min Scan# 625

Delta R.T. 0.01 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

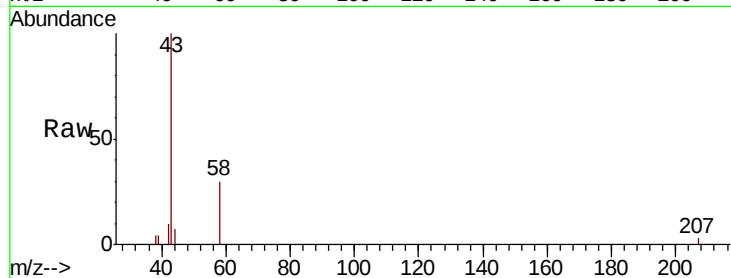
PB130936ZHE#01

Tot Ion: 43 Resp: 17344

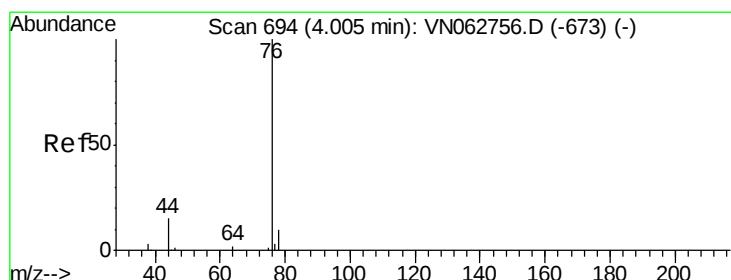
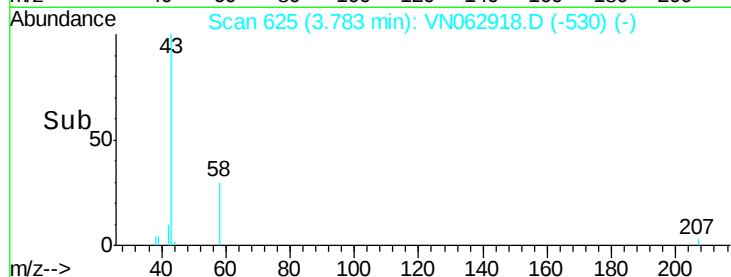
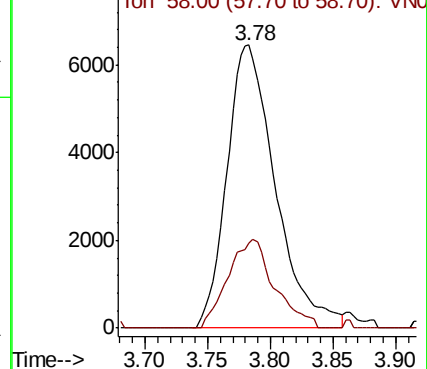
Ion Ratio Lower Upper

43 100

58 29.8 24.1 36.1



Abundance Ion 43.00 (42.70 to 43.70): VN062918.D (-530) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.00 min Scan# 693

Delta R.T. -0.00 min

Lab File: VN062918.D

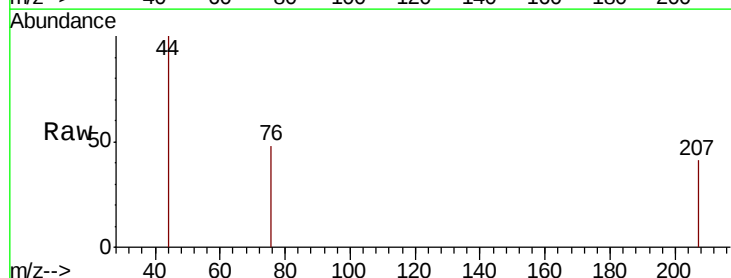
Acq: 13 Aug 2020 18:29

Tgt Ion: 76 Resp: 164

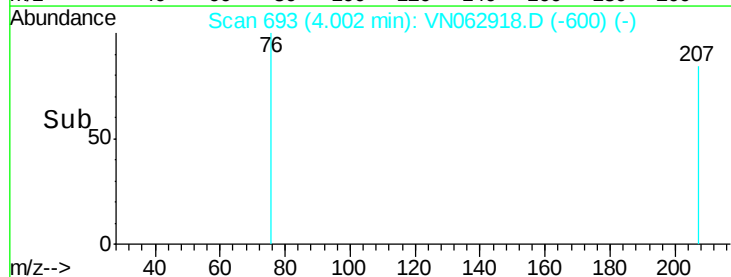
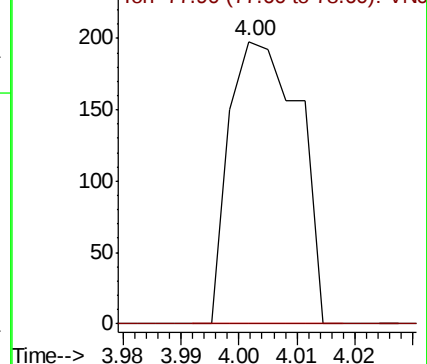
Ion Ratio Lower Upper

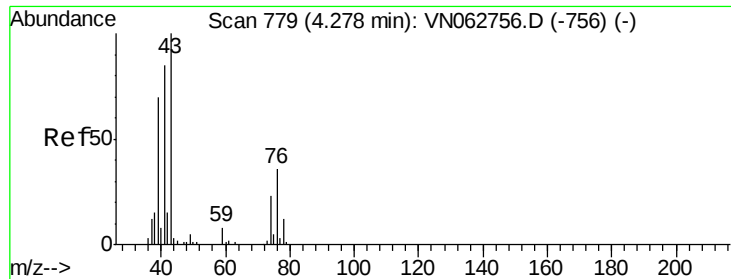
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN062918.D (-600) (-)

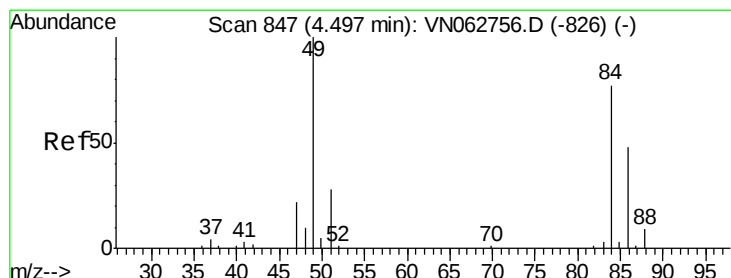
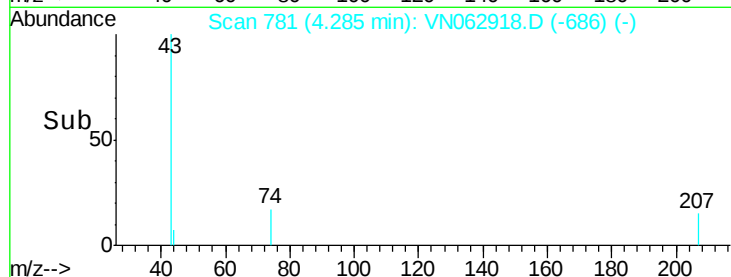
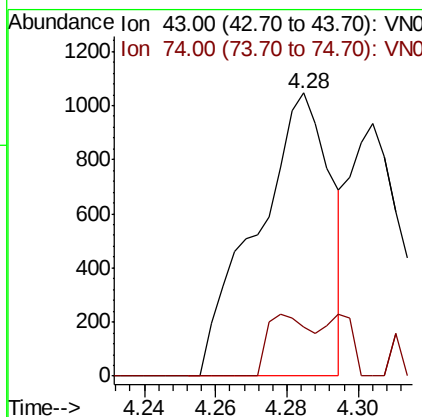
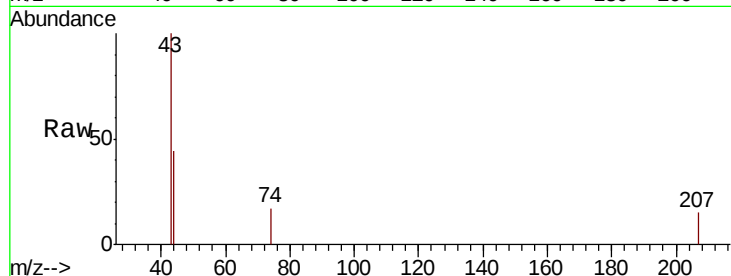




#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN062918.D
Acq: 13 Aug 2020 18:29

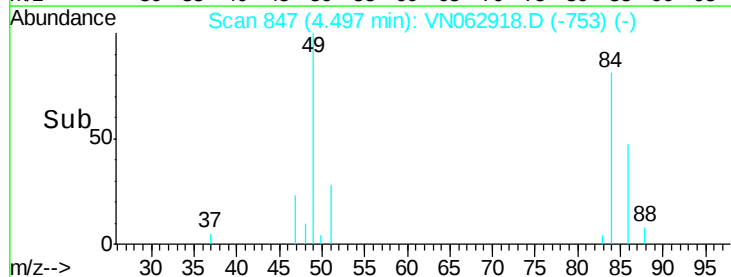
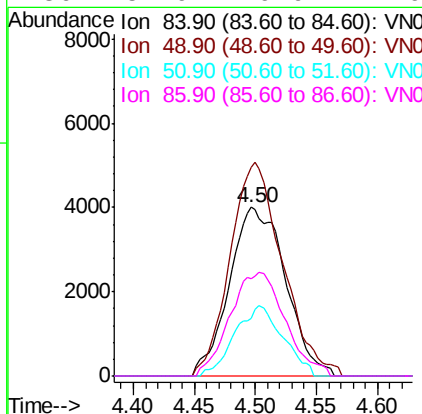
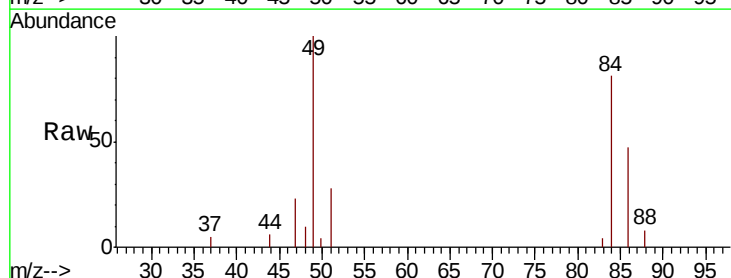
Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#01

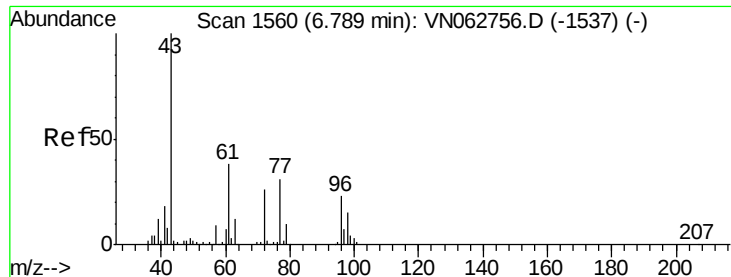
Tot Ion: 43 Resp: 1505
Ion Ratio Lower Upper
43 100
74 12.7 18.6 28.0#



#20
Methylene Chloride
Concen: 8.969 ug/l
RT: 4.50 min Scan# 847
Delta R.T. 0.00 min
Lab File: VN062918.D
Acq: 13 Aug 2020 18:29

Tgt Ion: 84 Resp: 12795
Ion Ratio Lower Upper
84 100
49 124.0 103.4 155.2
51 34.4 29.3 43.9
86 57.9 49.9 74.9





#25

2-Butanone

Concen: 3.796 ug/l

RT: 6.79 min Scan# 1561

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

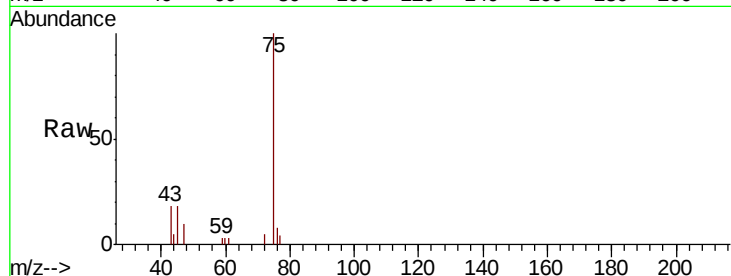
PB130936ZHE#01

Tot Ion: 43 Resp: 3919

Ion Ratio Lower Upper

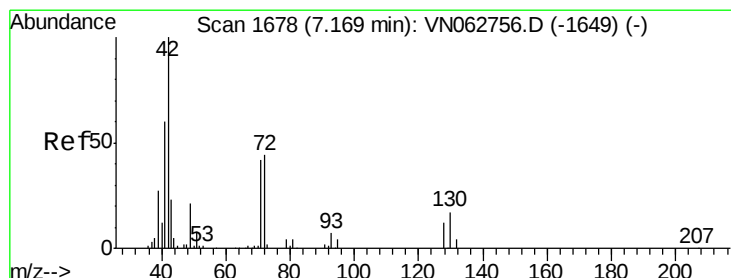
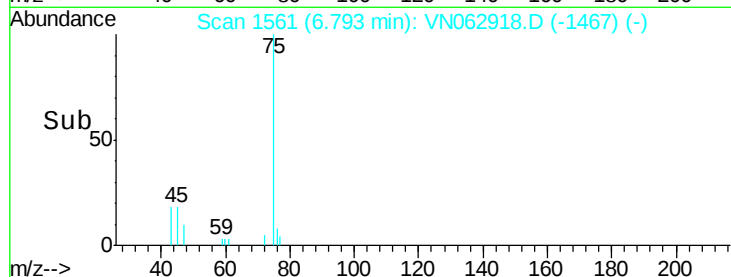
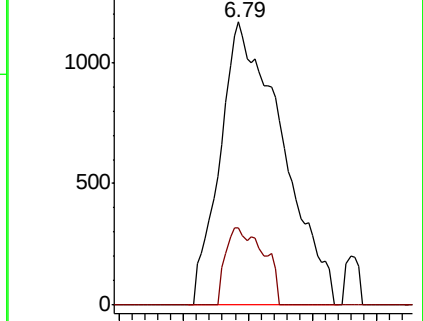
43 100

72 27.3 21.1 31.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO



#29

Tetrahydrofuran

Concen: 0.470 ug/l

RT: 7.17 min Scan# 1678

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

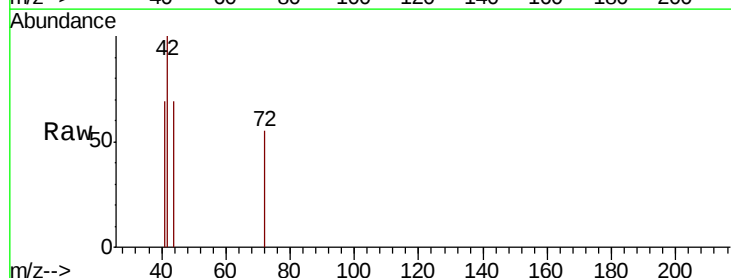
Tgt Ion: 42 Resp: 315

Ion Ratio Lower Upper

42 100

72 21.3 35.0 52.4#

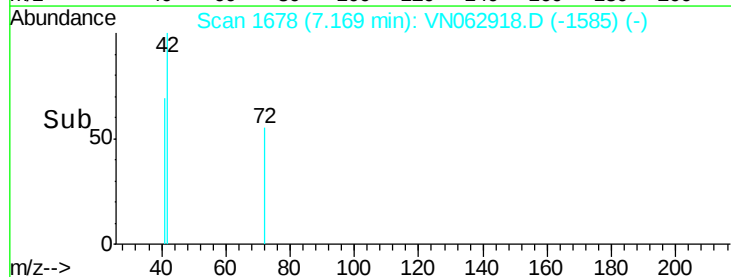
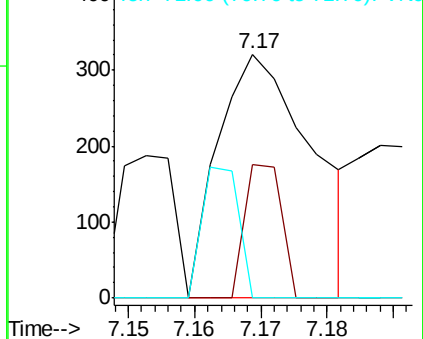
71 21.0 33.2 49.8#

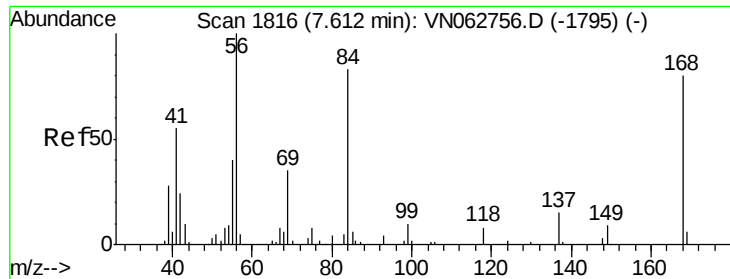


Abundance Ion 42.00 (41.70 to 42.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

Ion 71.00 (70.70 to 71.70): VNO

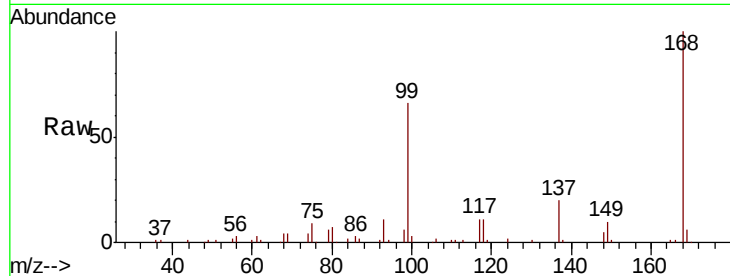




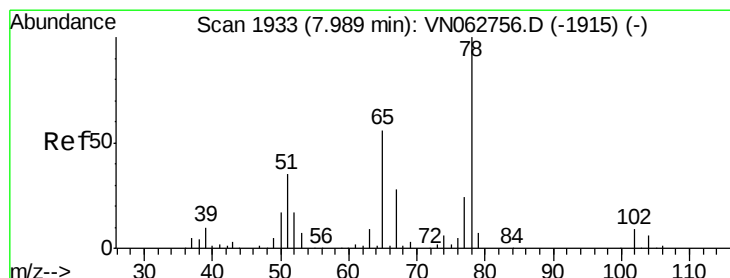
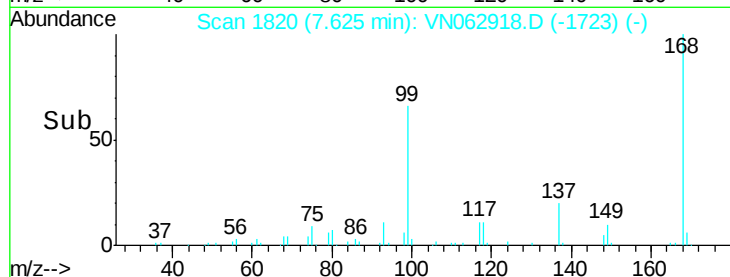
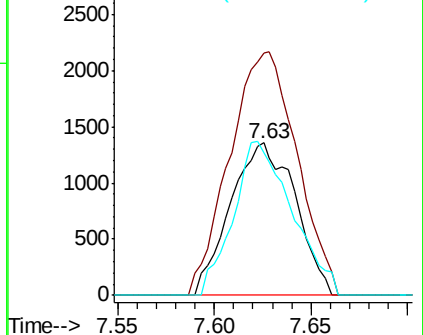
#31
Cyclohexane
Concen: 1.296 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN062918.D
Acq: 13 Aug 2020 18:29

Instrument :
MSVOA_N
ClientSampleId :
PB130936ZHE#01

Tot Ion: 56 Resp: 3170
Ion Ratio Lower Upper
56 100
69 158.5 28.1 42.1#
84 92.9 66.8 100.2

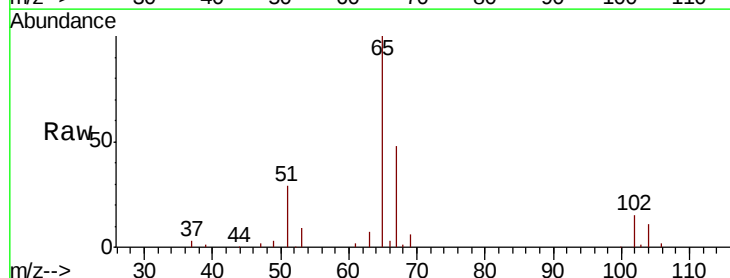


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

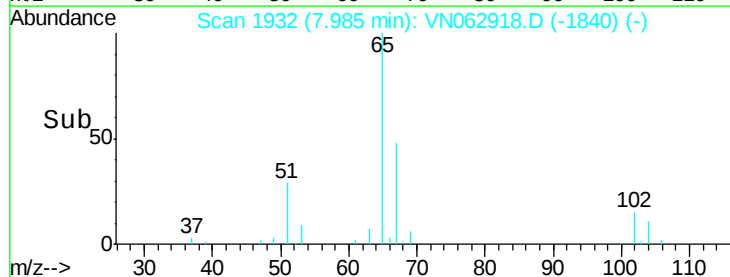
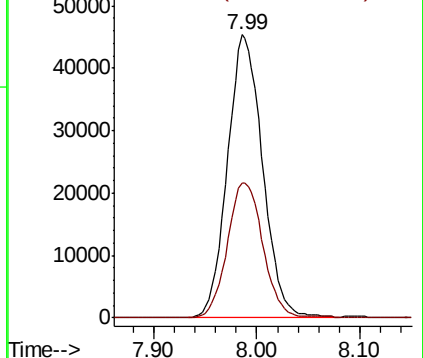


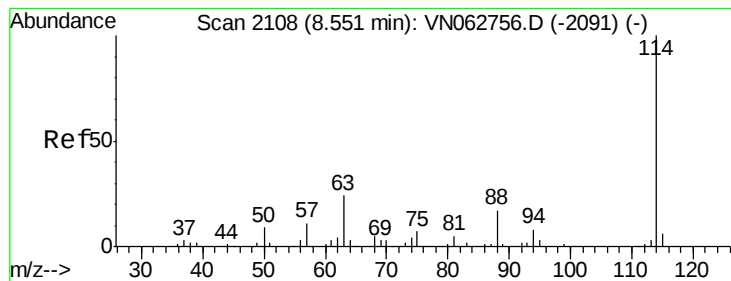
#33
1,2-Dichloroethane-d4
Concen: 53.201 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN062918.D
Acq: 13 Aug 2020 18:29

Tgt Ion: 65 Resp: 107313
Ion Ratio Lower Upper
65 100
67 48.3 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# 2108

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#01

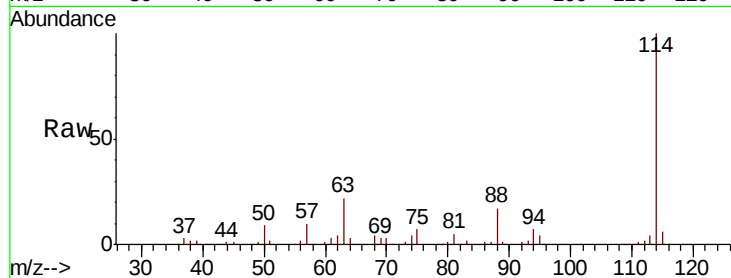
Tot Ion:114 Resp: 215480

Ion Ratio Lower Upper

114 100

63 22.1 0.0 47.6

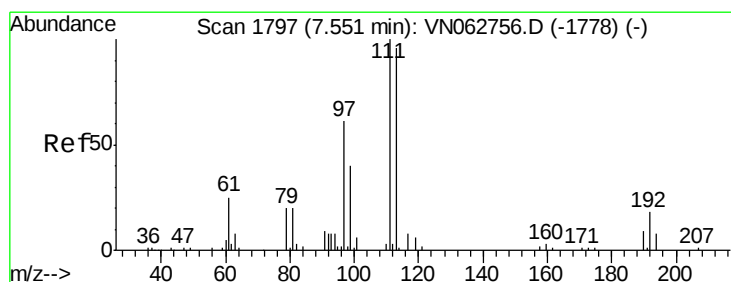
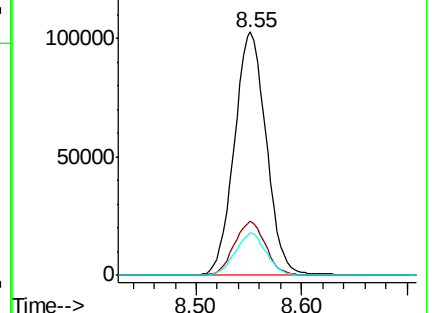
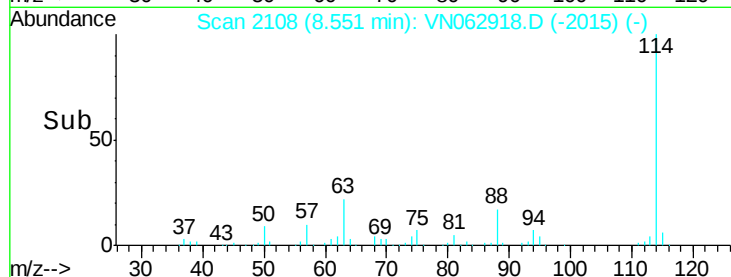
88 17.3 0.0 34.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.688 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

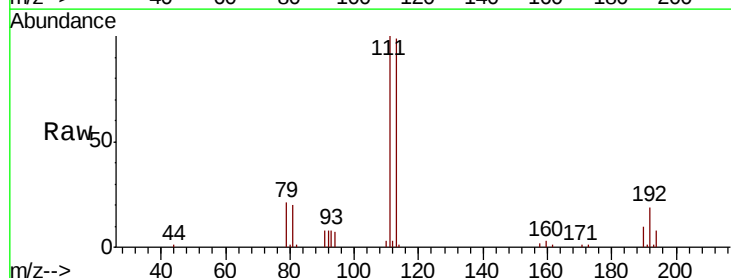
Tgt Ion:113 Resp: 74715

Ion Ratio Lower Upper

113 100

111 101.6 81.8 122.6

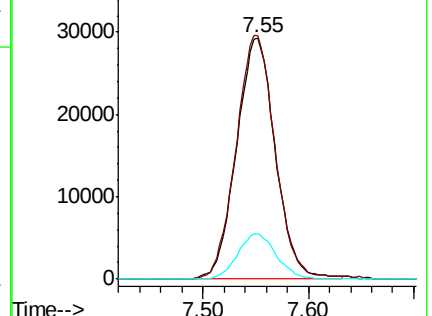
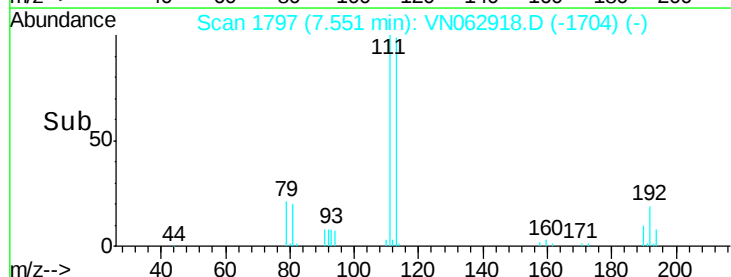
192 18.6 15.0 22.4

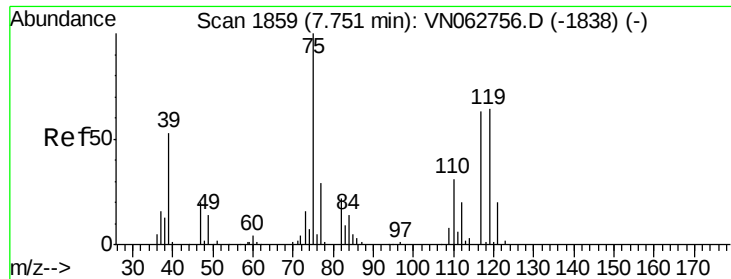


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

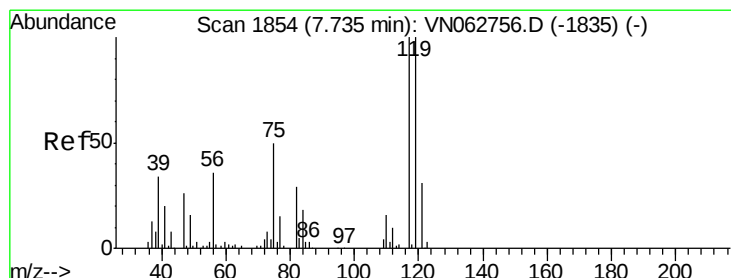
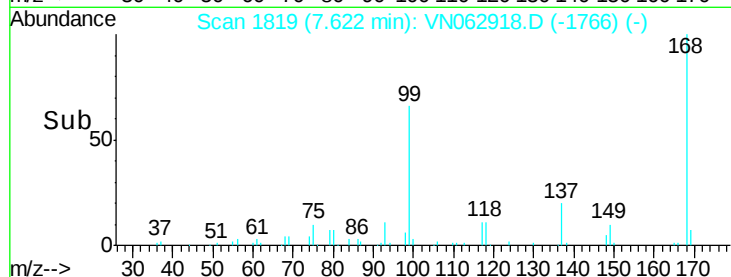
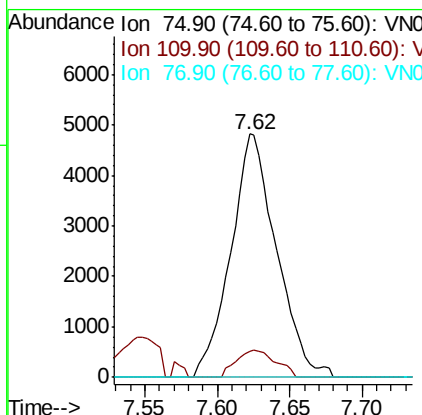
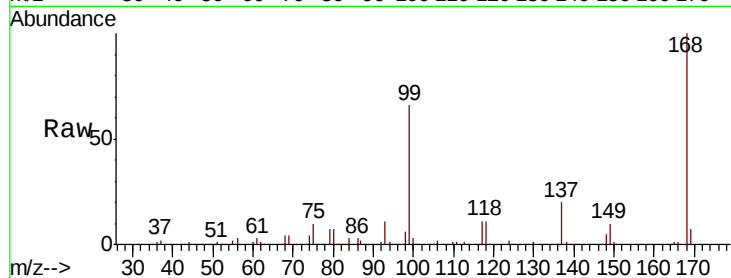




#36
 1,1-Dichloropropene
 Concen: 5.023 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

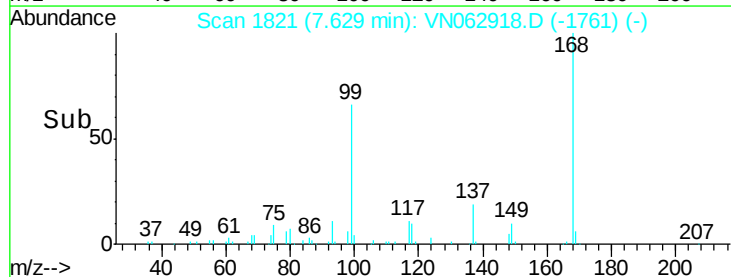
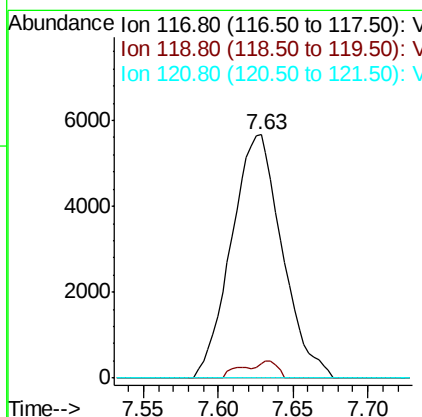
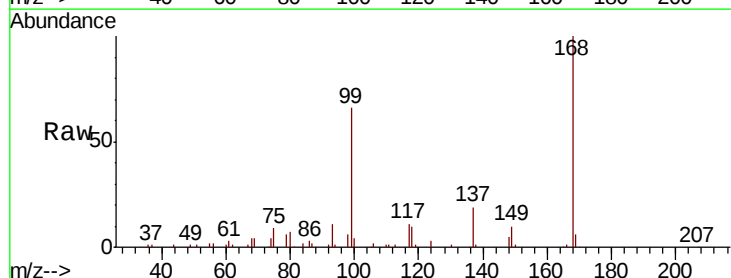
Instrument :
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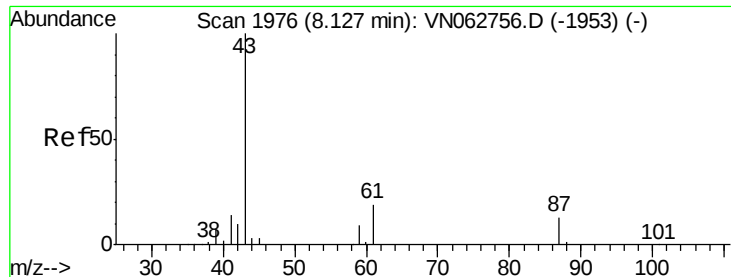
Tot Ion: 75 Resp: 10539
 Ion Ratio Lower Upper
 75 100
 110 9.8 15.6 46.7#
 77 0.0 24.1 36.1#



#38
 Carbon Tetrachloride
 Concen: 5.392 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

Tgt Ion: 117 Resp: 13380
 Ion Ratio Lower Upper
 117 100
 119 6.0 79.4 119.2#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 10.992 ug/l

RT: 8.13 min Scan# 1977

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#01

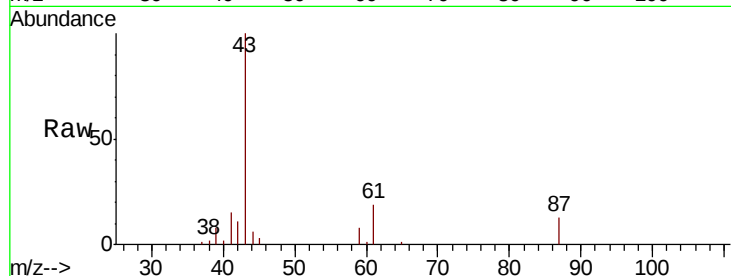
Tot Ion: 43 Resp: 40184

Ion Ratio Lower Upper

43 100

61 19.2 15.8 23.6

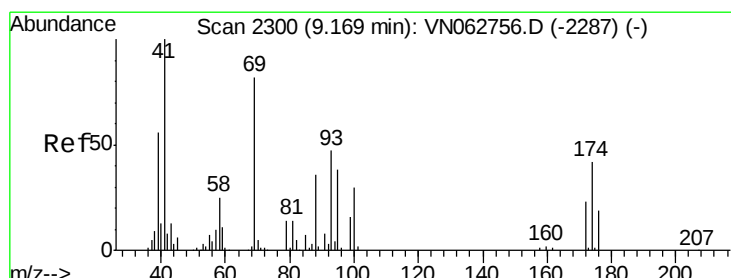
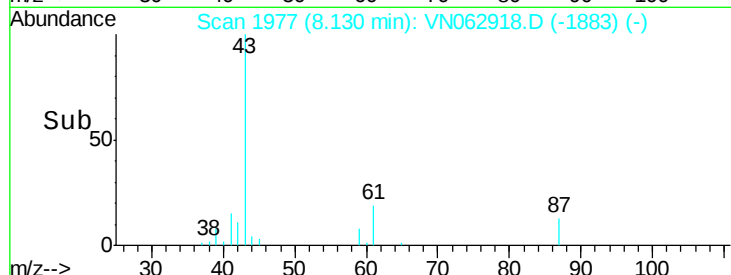
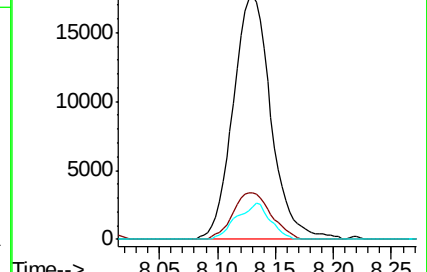
87 13.0 9.9 14.9



Abundance Ion 43.00 (42.70 to 43.70): VN062918.D (-1953) (-)

Ion 61.00 (60.70 to 61.70): VN062918.D (-1953) (-)

Ion 87.00 (86.70 to 87.70): VN062918.D (-1953) (-)



#48

Methyl methacrylate

Concen: 1.425 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.02 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

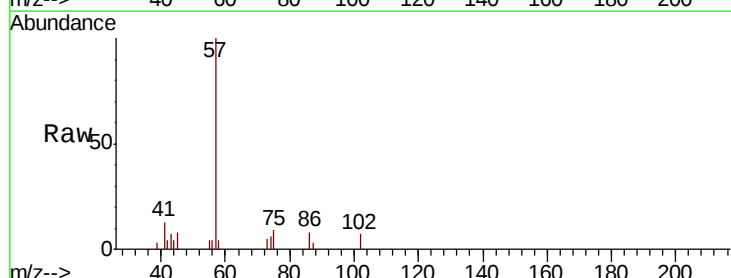
Tgt Ion: 41 Resp: 2563

Ion Ratio Lower Upper

41 100

69 0.0 67.4 101.2#

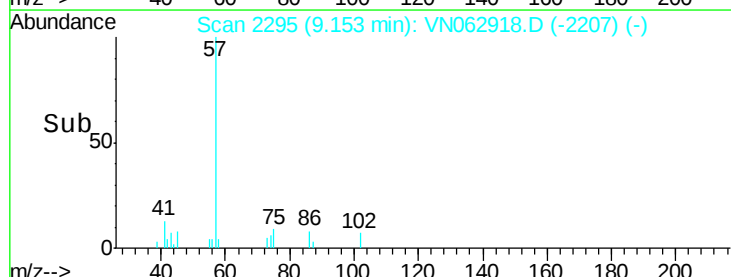
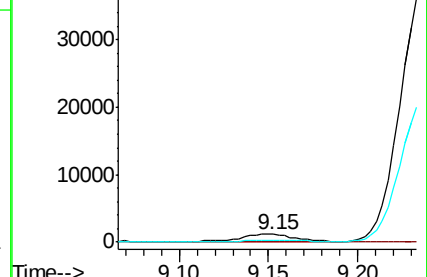
39 0.0 47.6 71.4#

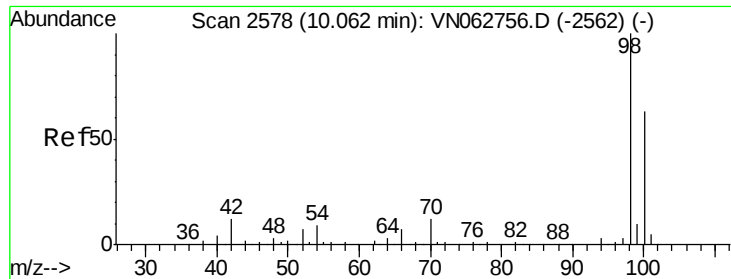


Abundance Ion 41.00 (40.70 to 41.70): VN062918.D (-2207) (-)

Ion 69.00 (68.70 to 69.70): VN062918.D (-2207) (-)

Ion 39.00 (38.70 to 39.70): VN062918.D (-2207) (-)





#50

Toluene-d8

Concen: 50.627 ug/l

RT: 10.06 min Scan# 2578

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

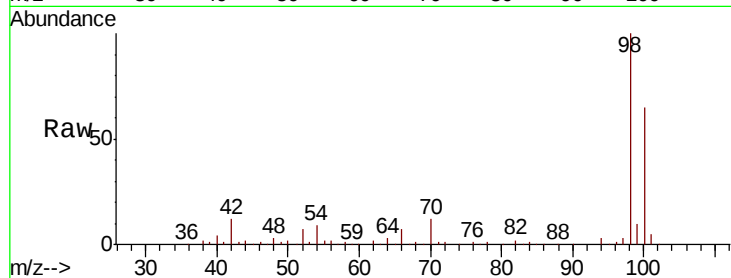
PB130936ZHE#01

Tot Ion: 98 Resp: 291337

Ion Ratio Lower Upper

98 100

100 63.8 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VN062756.D (-2562) (-)

Ion 100.00 (99.70 to 100.70): VN062756.D (-2562) (-)

10.06

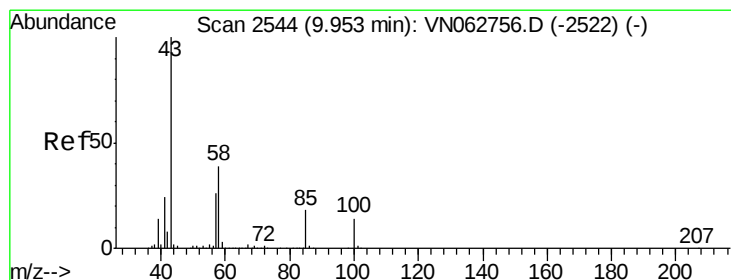
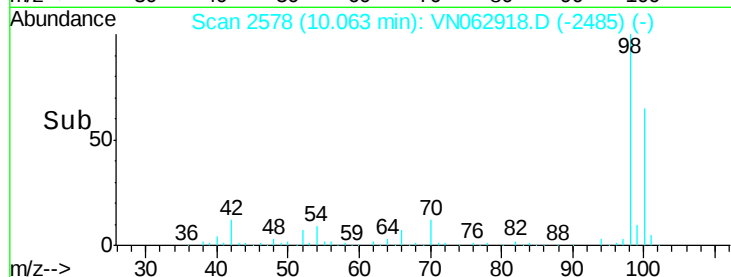
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.861 ug/l

RT: 9.96 min Scan# 2545

Delta R.T. 0.00 min

Lab File: VN062918.D

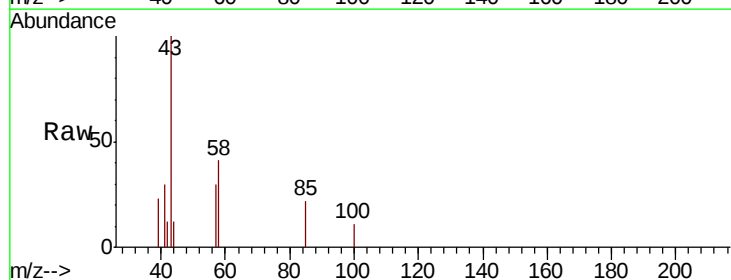
Acq: 13 Aug 2020 18:29

Tgt Ion: 43 Resp: 4402

Ion Ratio Lower Upper

43 100

58 46.6 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VN062756.D (-2522) (-)

Ion 58.00 (57.70 to 58.70): VN062756.D (-2522) (-)

12000

10000

8000

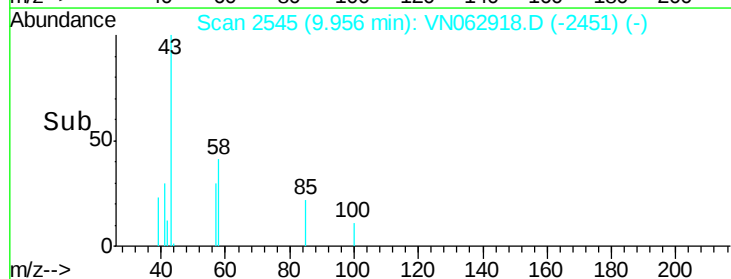
6000

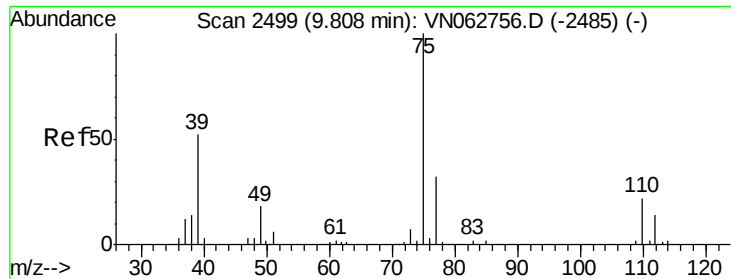
4000

2000

0

Time-->

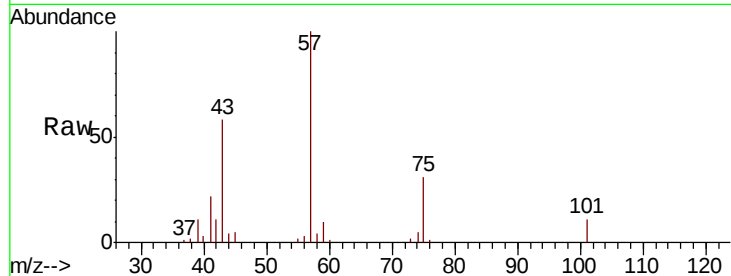




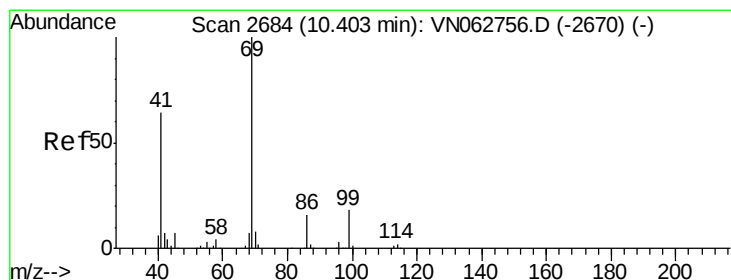
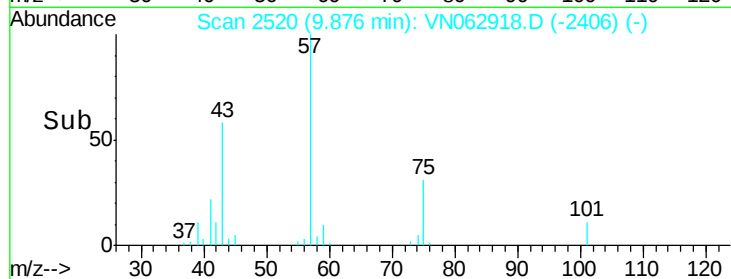
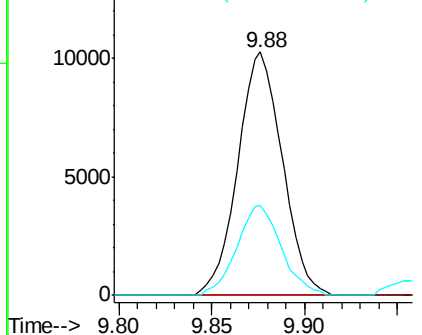
#54
 cis-1,3-Dichloropropene
 Concen: 6.247 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#01

Tot Ion: 75 Resp: 17203
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 36.8 41.9 62.9#

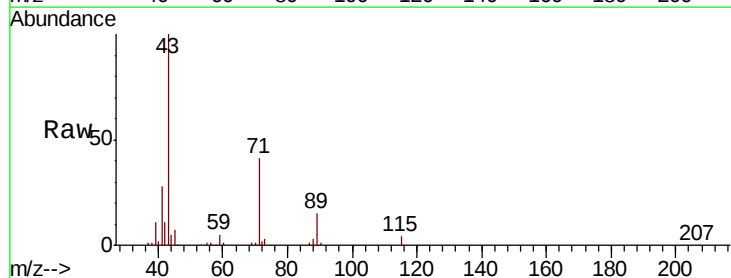


Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO

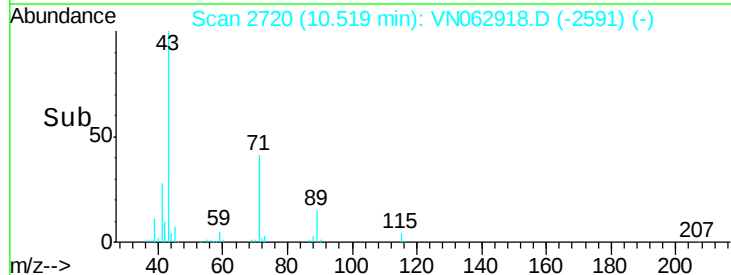
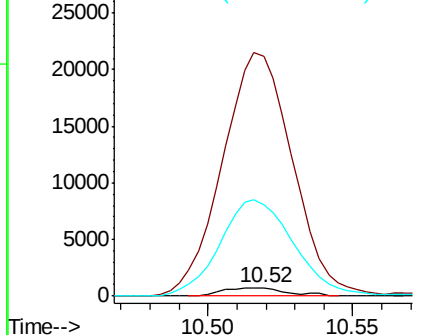


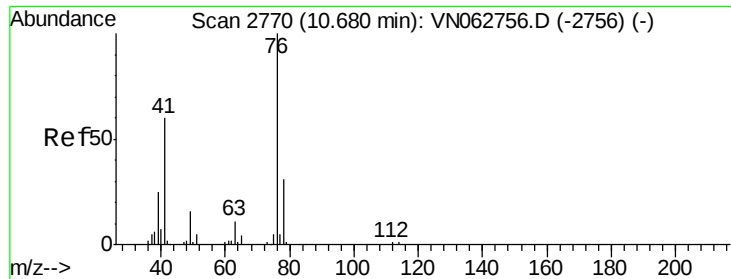
#56
 Ethyl methacrylate
 Concen: 0.449 ug/l
 RT: 10.52 min Scan# 2720
 Delta R.T. 0.12 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

Tgt Ion: 69 Resp: 1116
 Ion Ratio Lower Upper
 69 100
 41 3255.4 52.2 78.2#
 39 1366.2 30.9 46.3#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 1.139 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

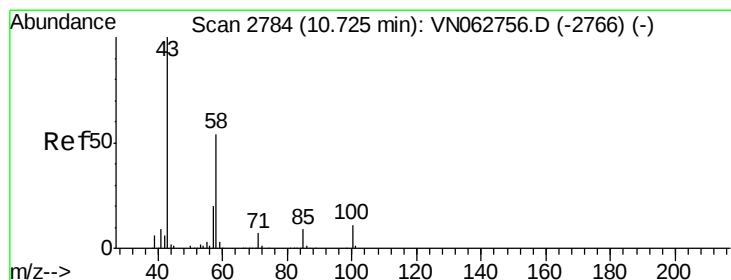
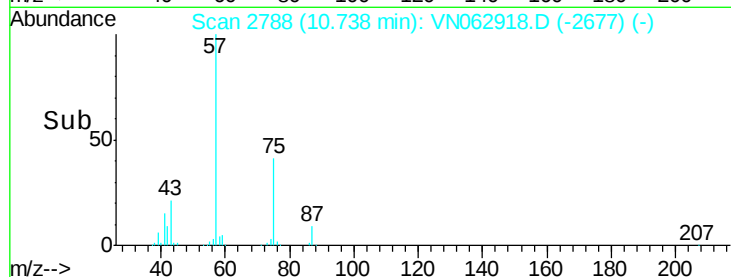
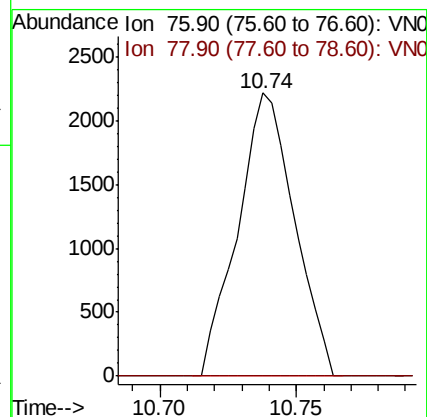
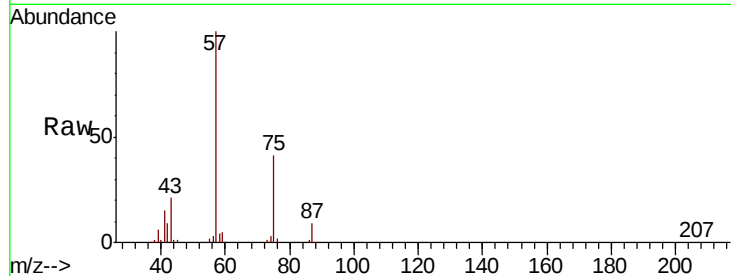
PB130936ZHE#01

Tot Ion: 76 Resp: 3194

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



#59

2-Hexanone

Concen: 25.829 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.01 min

Lab File: VN062918.D

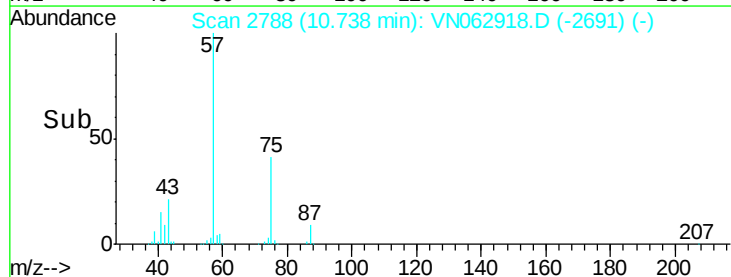
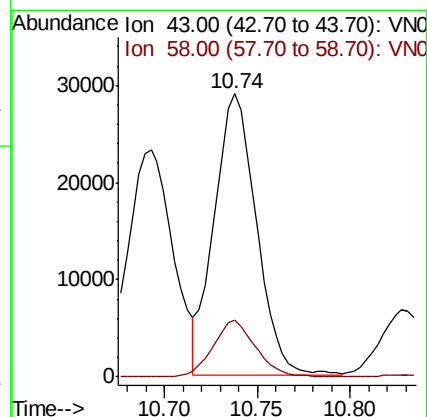
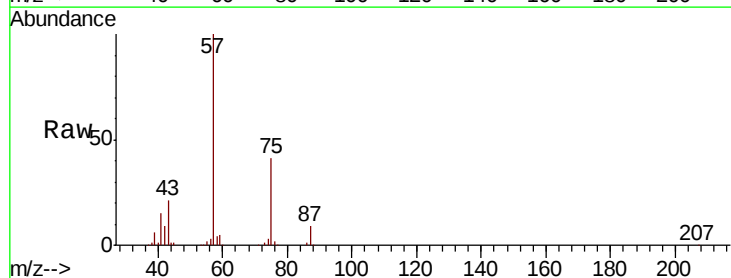
Acq: 13 Aug 2020 18:29

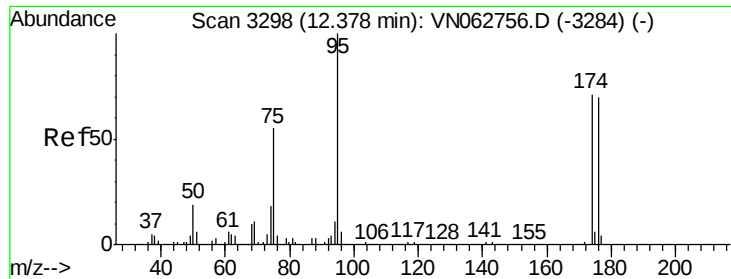
Tgt Ion: 43 Resp: 45573

Ion Ratio Lower Upper

43 100

58 20.3 26.7 80.1#

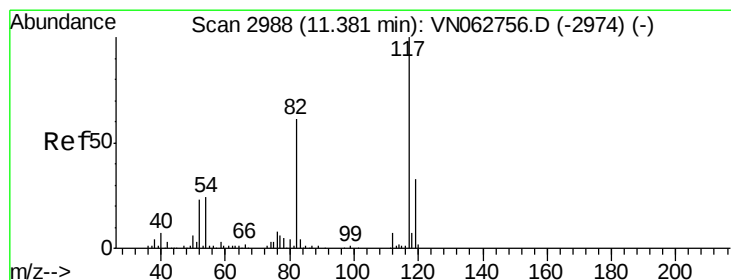
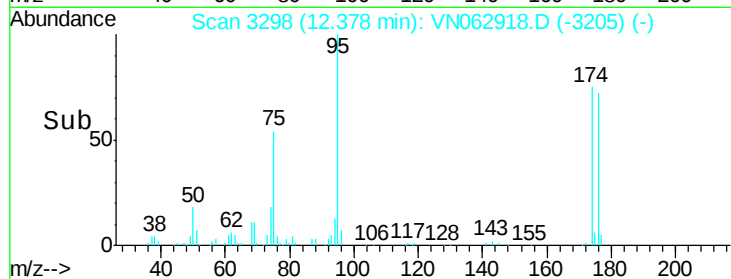
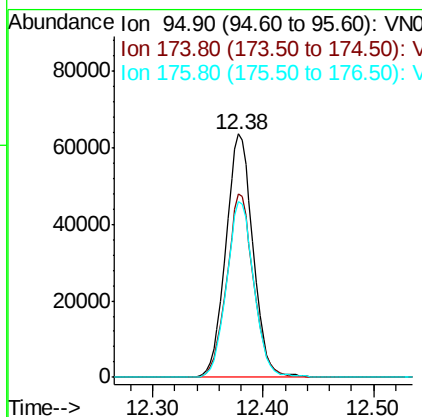
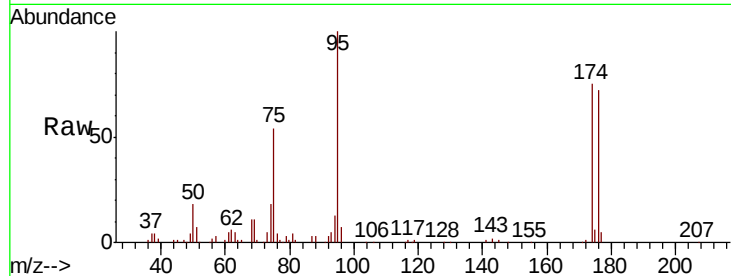




#62
 4-Bromofluorobenzene
 Concen: 49.961 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

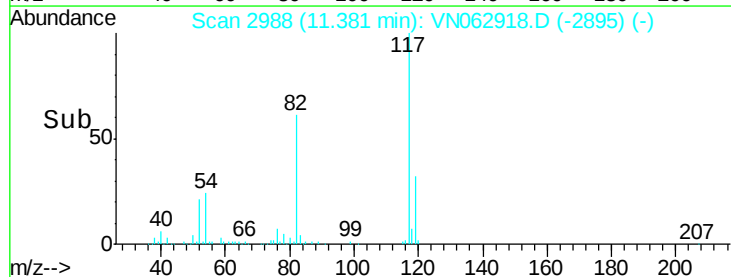
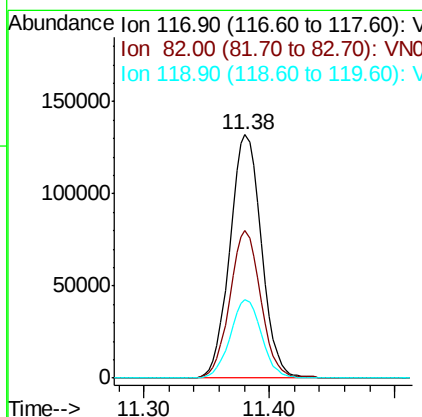
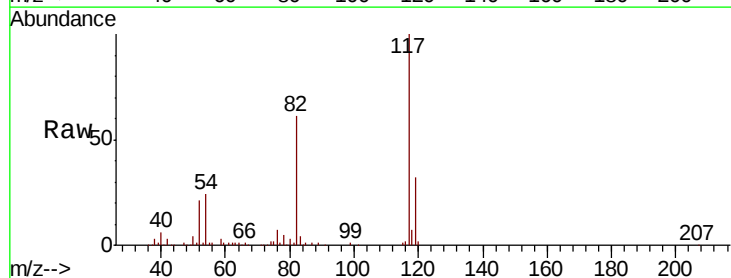
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#01

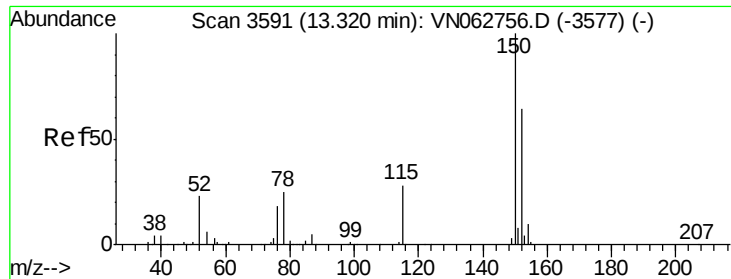
Tot Ion	95	Resp	108648
Ion Ratio	Lower	Upper	
95	100		
174	74.4	0.0	144.8
176	72.5	0.0	142.2



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. 0.00 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

Tgt Ion	117	Resp	230722
Ion Ratio	Lower	Upper	
117	100		
82	60.7	49.0	73.4
119	32.3	26.2	39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#01

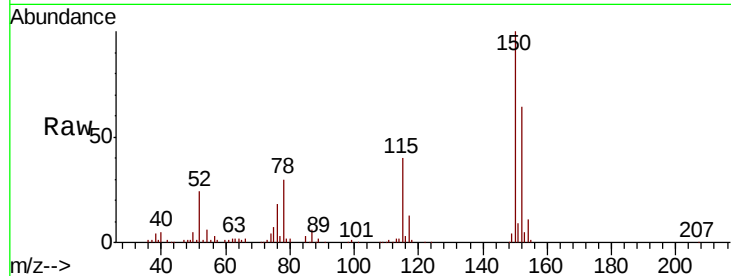
Tot Ion:152 Resp: 84462

Ion Ratio Lower Upper

152 100

115 63.8 31.6 94.8

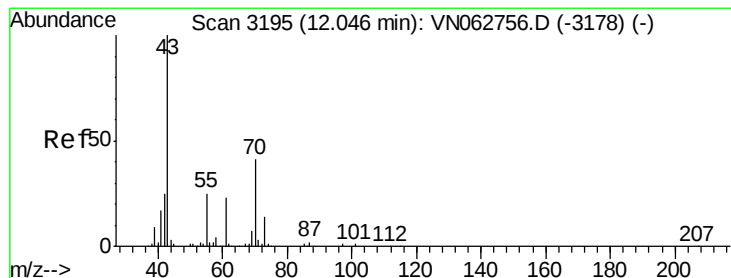
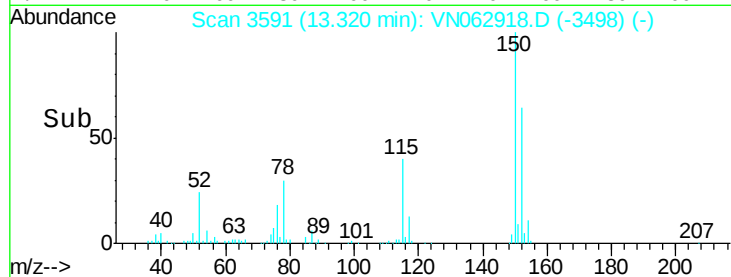
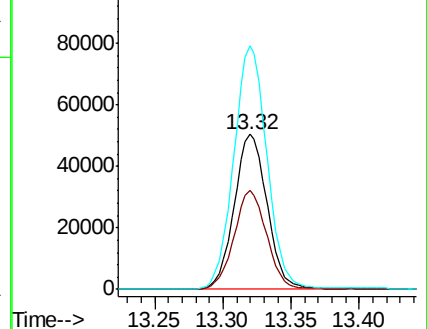
150 158.4 0.0 349.2



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



#74

N-ethyl acetate

Concen: 0.355 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Tgt Ion: 43 Resp: 914

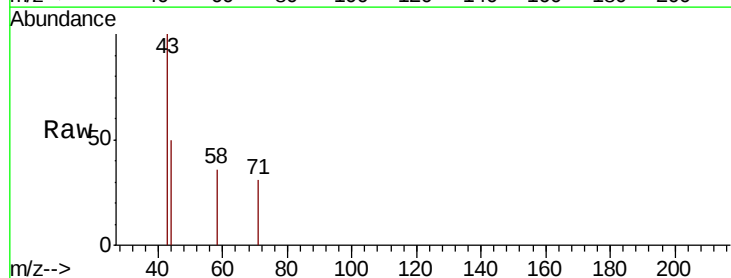
Ion Ratio Lower Upper

43 100

70 0.0 32.3 48.5#

55 0.0 20.2 30.2#

61 0.0 18.2 27.4#

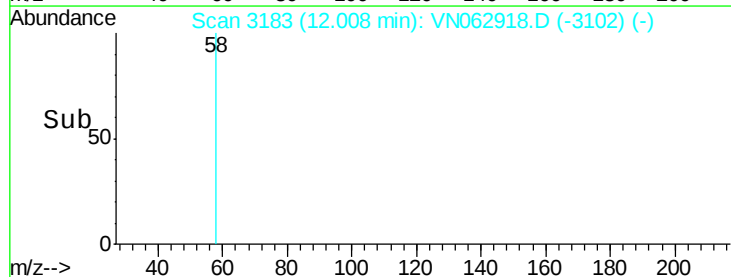
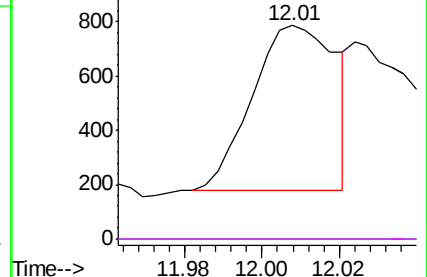


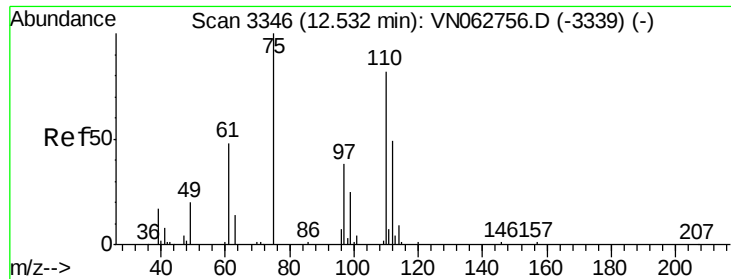
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

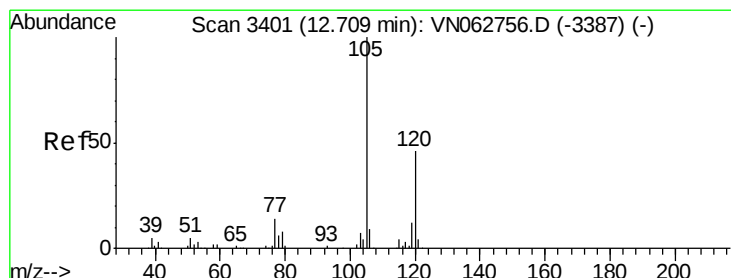
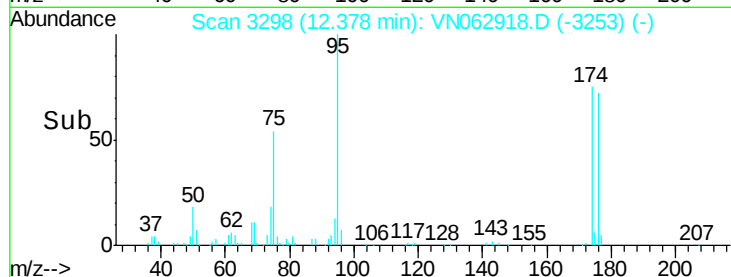
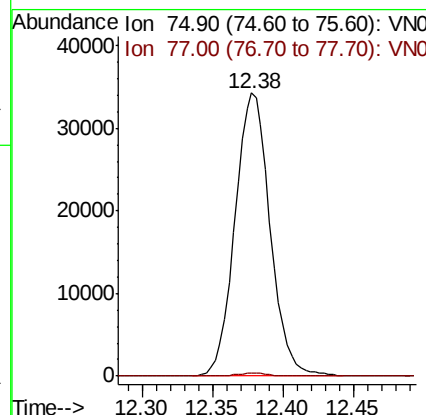
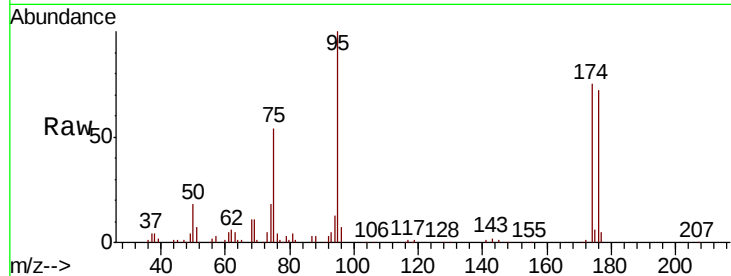




#76
 1,2,3-Trichloropropane
 Concen: 26.197 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

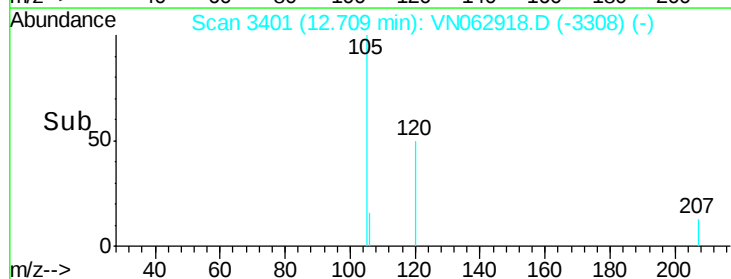
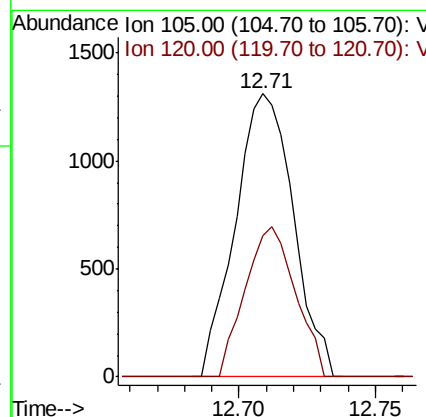
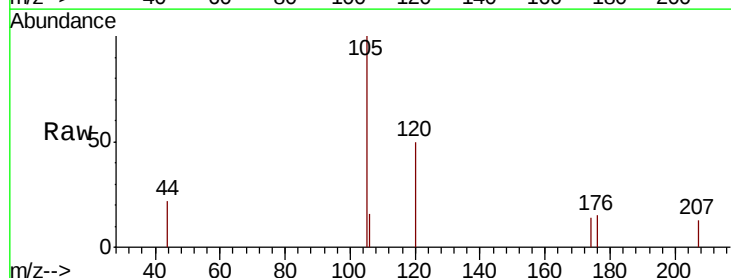
Instrument :
 MSVOA_N
 ClientSampleId :
 PB130936ZHE#01

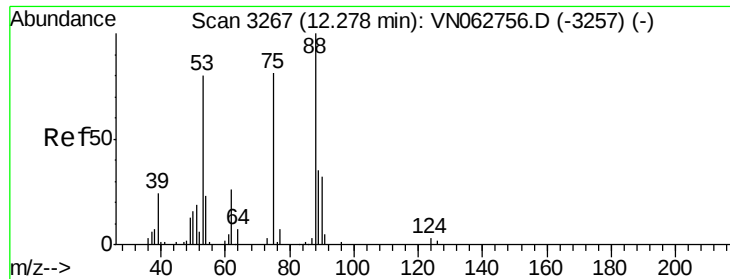
Tot Ion: 75 Resp: 59673
 Ion Ratio Lower Upper
 75 100
 77 0.8 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.350 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN062918.D
 Acq: 13 Aug 2020 18:29

Tgt Ion: 105 Resp: 1933
 Ion Ratio Lower Upper
 105 100
 120 46.1 22.9 68.5





#81

trans-1,4-Dichloro-2-butene

Concen: 79.972 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

Instrument :

MSVOA_N

ClientSampleId :

PB130936ZHE#01

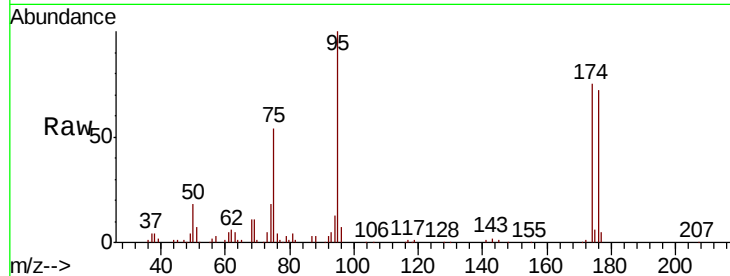
Tot Ion: 75 Resp: 59673

Ion Ratio Lower Upper

75 100

53 0.0 79.1 118.7#

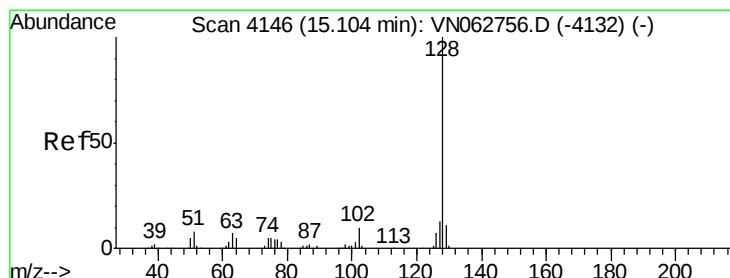
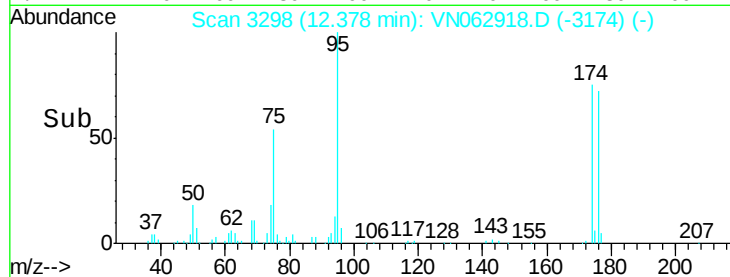
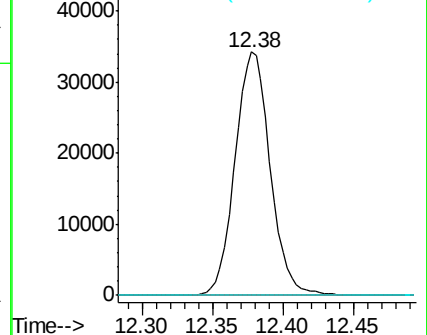
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN062918.D (-3174) (-)

Ion 53.00 (52.70 to 53.70): VN062918.D (-3174) (-)

Ion 88.90 (88.60 to 89.60): VN062918.D (-3174) (-)



#95

Naphthalene

Concen: 3.835 ug/l

RT: 15.12 min Scan# 4150

Delta R.T. 0.01 min

Lab File: VN062918.D

Acq: 13 Aug 2020 18:29

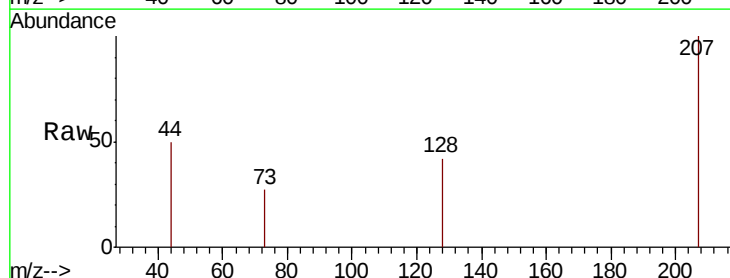
Tgt Ion: 128 Resp: 532

Ion Ratio Lower Upper

128 100

127 0.0 10.8 16.2#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN062918.D (-4053) (-)

Ion 127.00 (126.70 to 127.70): VN062918.D (-4053) (-)

Ion 129.00 (128.70 to 129.70): VN062918.D (-4053) (-)

