

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064969.D
 Acq On : 8 Dec 2020 15:01
 Operator : JC/MD
 Sample : PB133456ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#06

Quant Time: Dec 09 06:52:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 23 13:54:12 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	170559	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	324186	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	337716	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	142909	50.00	ug/l	0.00

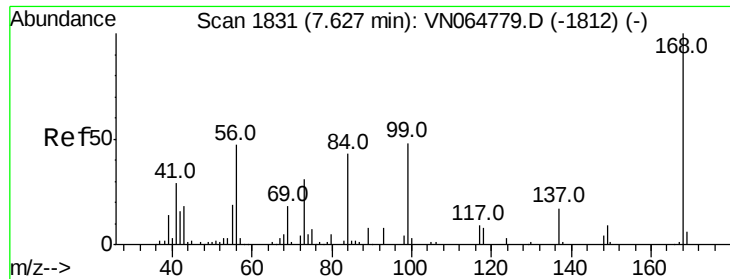
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.98	65	107258	54.09	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	108.18%
35) Dibromofluoromethane	7.55	113	99923	51.51	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.02%
50) Toluene-d8	10.06	98	403882	50.96	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	101.92%
62) 4-Bromofluorobenzene	12.38	95	154218	54.37	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	108.74%

Target Compounds

					Qvalue	
16) Acetone	3.78	43	5343	8.197	ug/l	95
18) Methyl Acetate	4.29	43	825	0.421	ug/l #	50
20) Methylene Chloride	4.51	84	5750	2.815	ug/l #	83
25) 2-Butanone	6.78	43	1124	1.064	ug/l #	87
29) Tetrahydrofuran	7.18	42	933	1.279	ug/l #	63
31) Cyclohexane	7.63	56	2889	1.045	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11506	3.829	ug/l #	49
37) Ethyl Acetate	6.78	43	1124	0.388	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15899	5.085	ug/l #	17
43) Isopropyl Acetate	8.13	43	17248	3.703	ug/l #	92
45) 1,2-Dichloropropane	9.23	63	1219	0.511	ug/l #	43
48) Methyl methacrylate	9.14	41	3928	1.765	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3643	1.303	ug/l #	83
52) Toluene	10.12	92	1551	0.274	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	29054	7.592	ug/l #	62
57) 1,3-Dichloropropane	10.73	76	17505	4.551	ug/l #	42
59) 2-Hexanone	10.74	43	229882	114.234	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	72991	23.716	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2079	0.252	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	72991	65.001	ug/l #	15

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

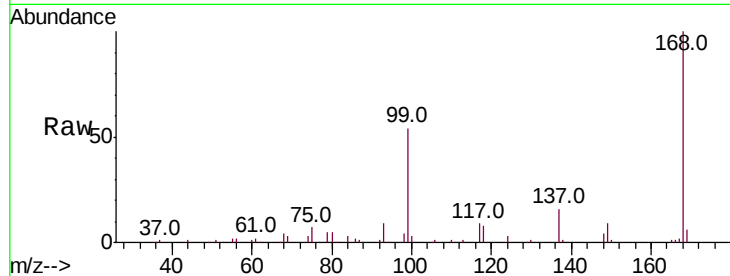
PB133456ZHE#06

Tot Ion:168 Resp: 170559

Ion Ratio Lower Upper

168 100

99 53.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.62

80000

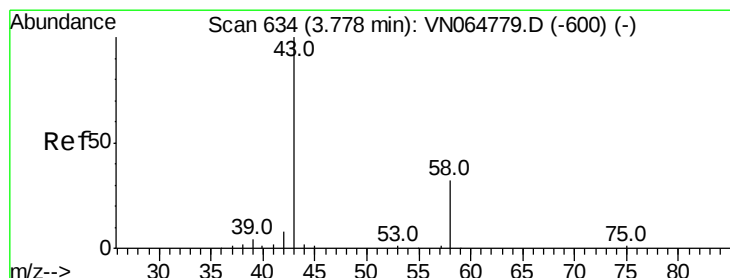
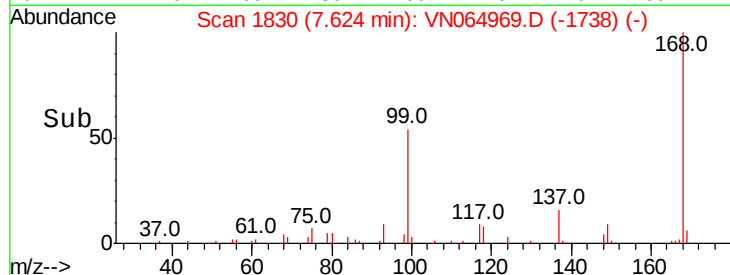
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 8.197 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064969.D

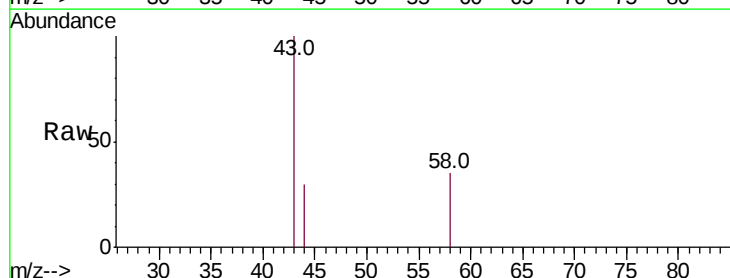
Acq: 8 Dec 2020 15:01

Tgt Ion: 43 Resp: 5343

Ion Ratio Lower Upper

43 100

58 35.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2000

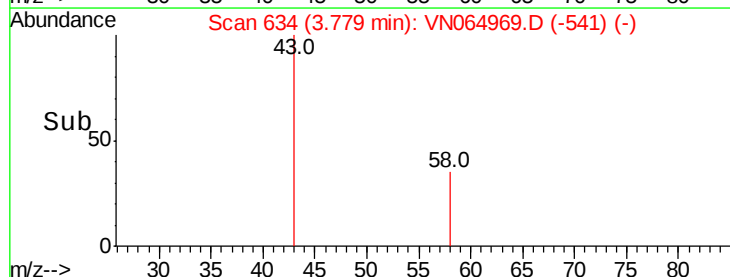
1500

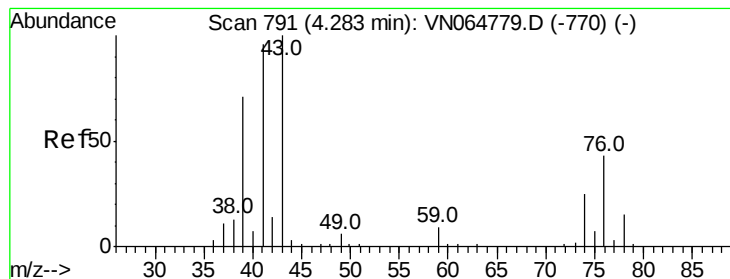
1000

500

0

Time--> 3.70 3.75 3.80 3.85





#18

Methyl Acetate

Concen: 0.421 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

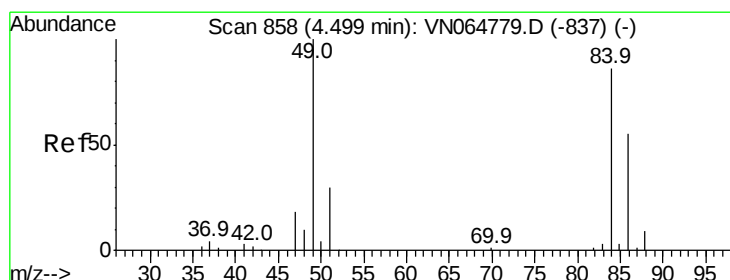
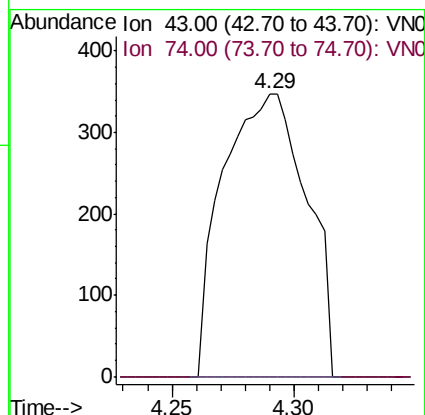
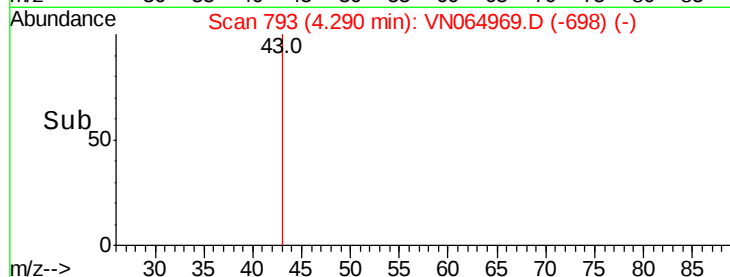
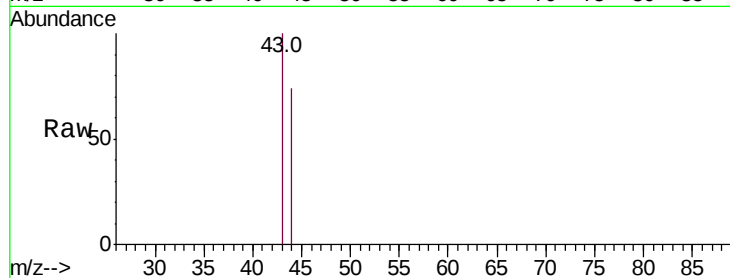
PB133456ZHE#06

Tot Ion: 43 Resp: 825

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



#20

Methylene Chloride

Concen: 2.815 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Tgt Ion: 84 Resp: 5750

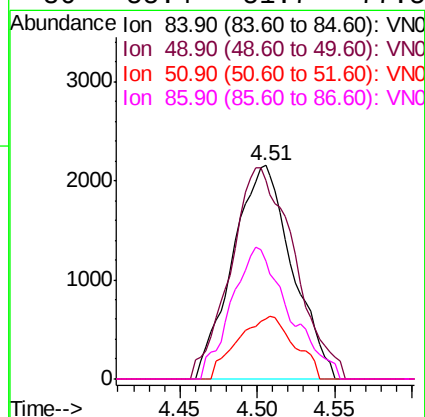
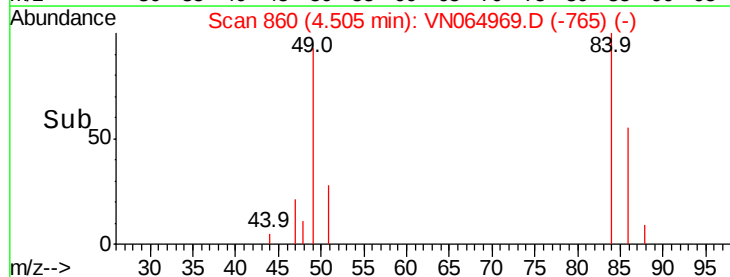
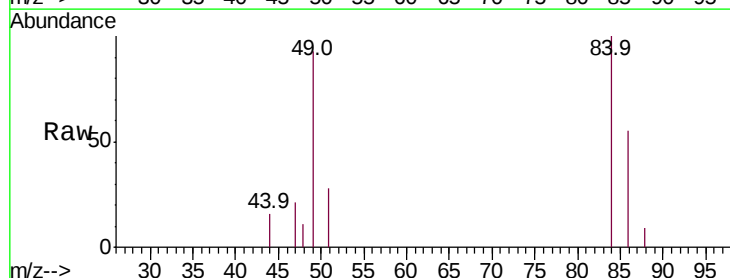
Ion Ratio Lower Upper

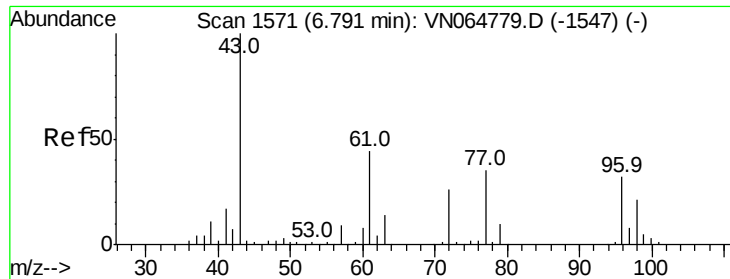
84 100

49 93.1 93.4 140.0#

51 28.1 28.2 42.4#

86 55.4 51.7 77.5





#25

2-Butanone

Concen: 1.064 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

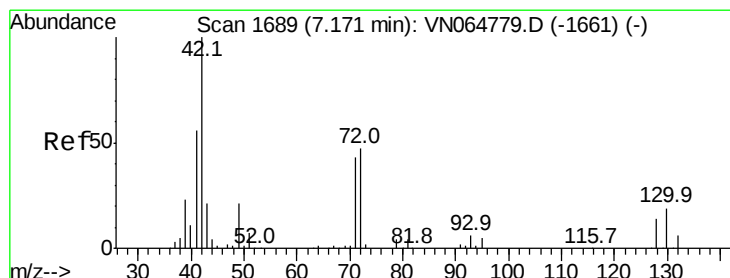
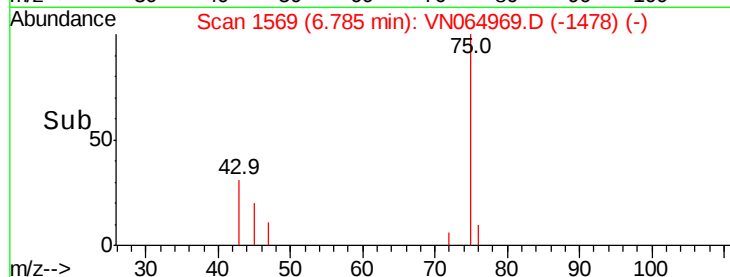
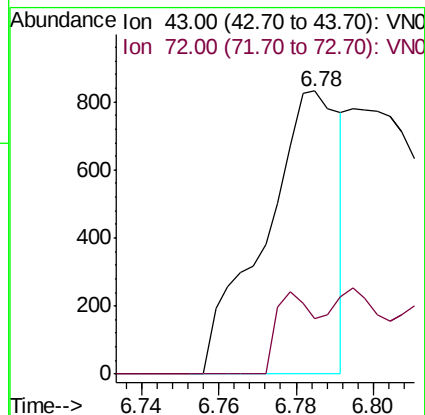
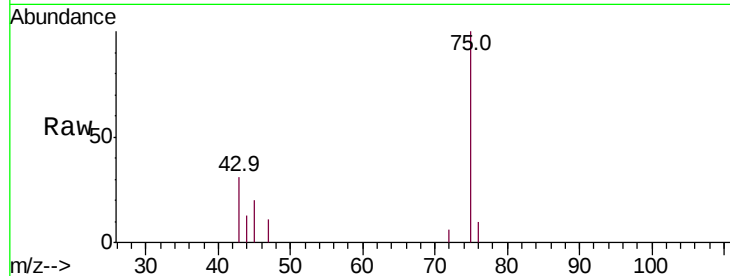
PB133456ZHE#06

Tot Ion: 43 Resp: 1124

Ion Ratio Lower Upper

43 100

72 19.5 21.0 31.6#



#29

Tetrahydrofuran

Concen: 1.279 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

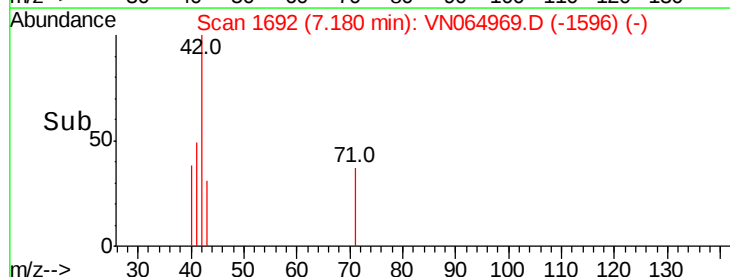
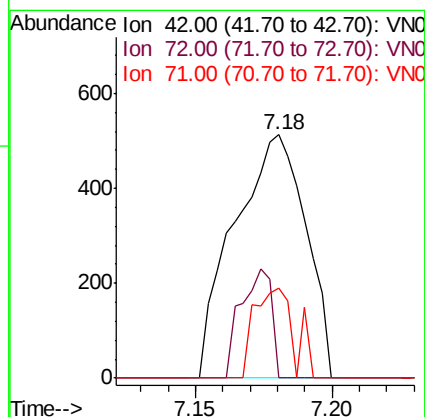
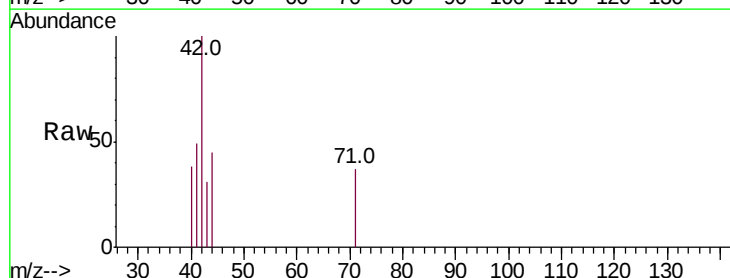
Tgt Ion: 42 Resp: 933

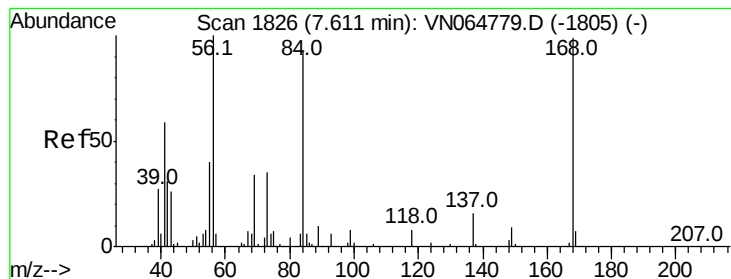
Ion Ratio Lower Upper

42 100

72 19.3 36.6 54.8#

71 20.5 33.6 50.4#





#31

Cyclohexane

Concen: 1.045 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#06

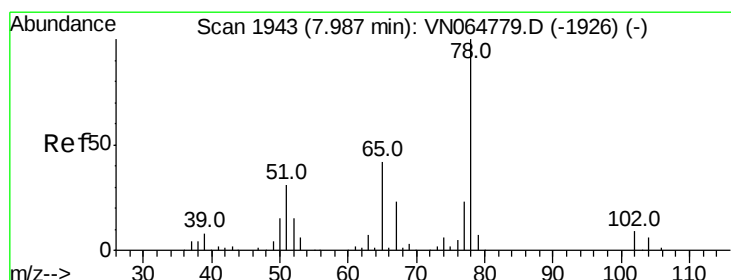
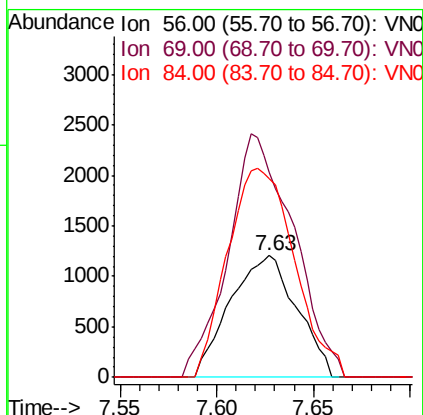
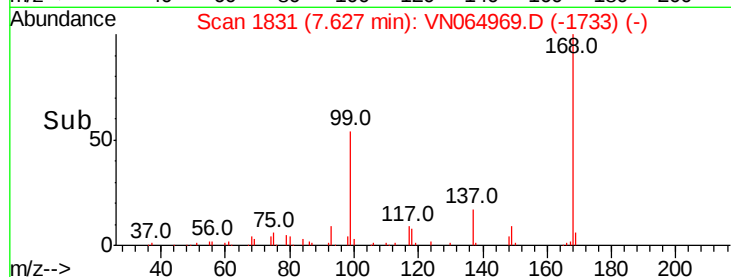
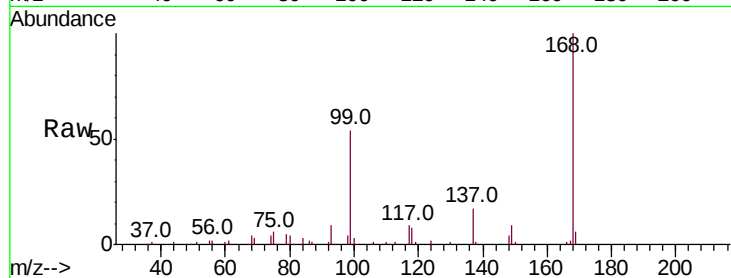
Tot Ion: 56 Resp: 2889

Ion Ratio Lower Upper

56 100

69 153.3 27.5 41.3#

84 163.7 73.9 110.9#



#33

1,2-Dichloroethane-d4

Concen: 54.093 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN064969.D

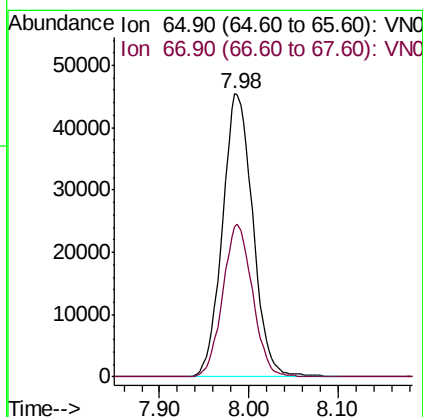
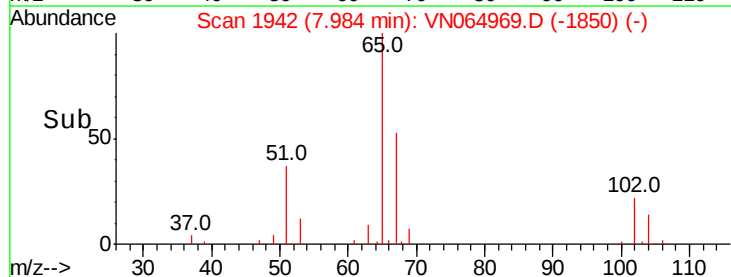
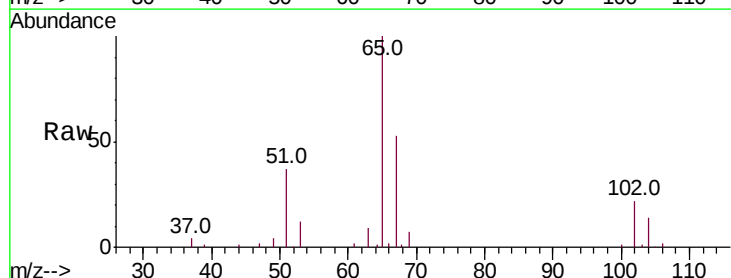
Acq: 8 Dec 2020 15:01

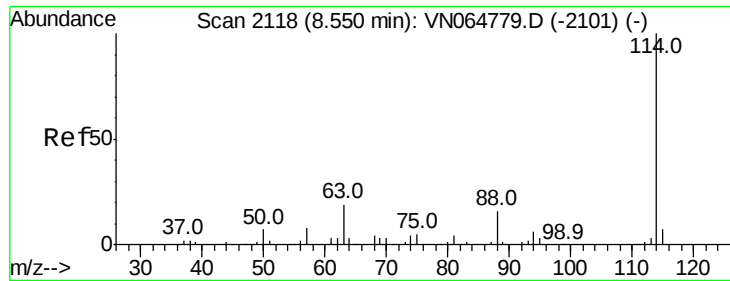
Tgt Ion: 65 Resp: 107258

Ion Ratio Lower Upper

65 100

67 52.7 0.0 108.2

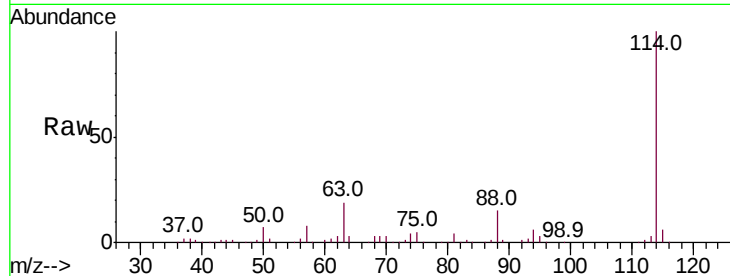




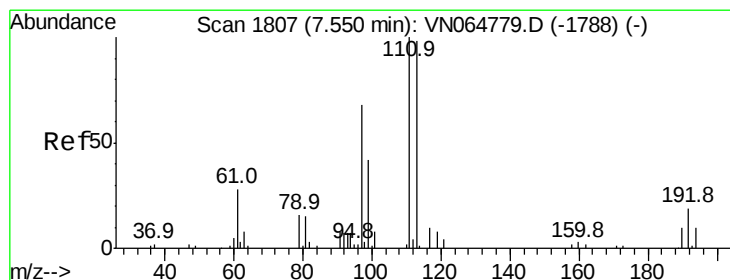
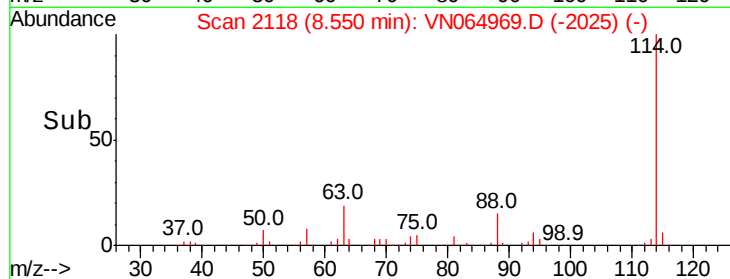
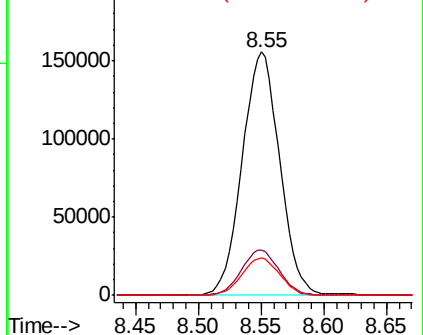
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#06

Tot Ion:114 Resp: 324186
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.6
 88 15.2 0.0 32.6

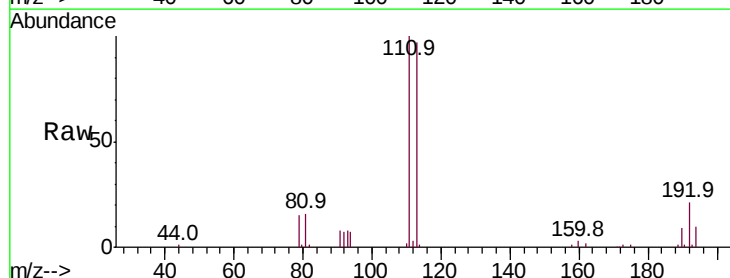


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

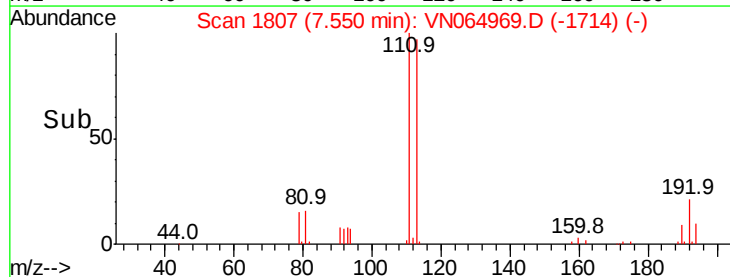
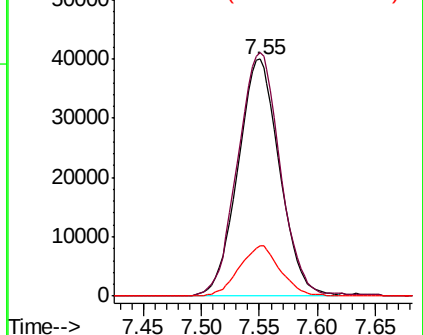


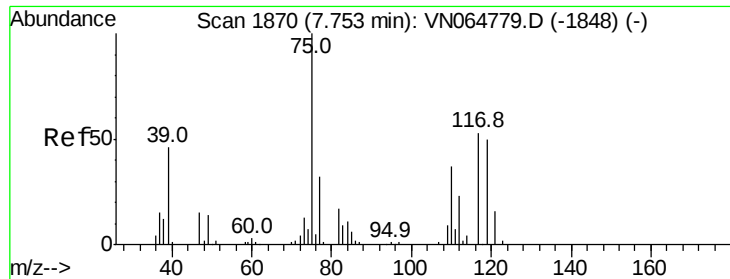
#35
 Dibromofluoromethane
 Concen: 51.511 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

Tgt Ion:113 Resp: 99923
 Ion Ratio Lower Upper
 113 100
 111 104.4 81.6 122.4
 192 20.8 16.2 24.2



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

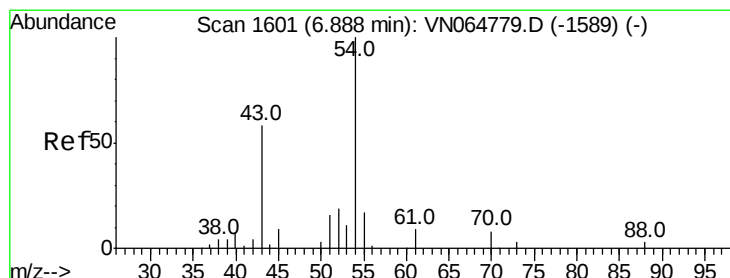
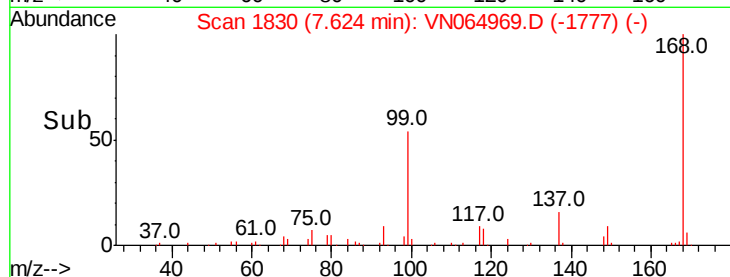
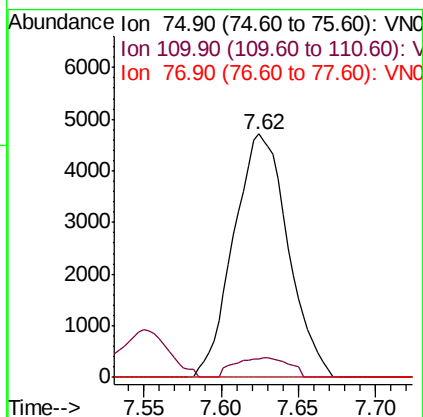
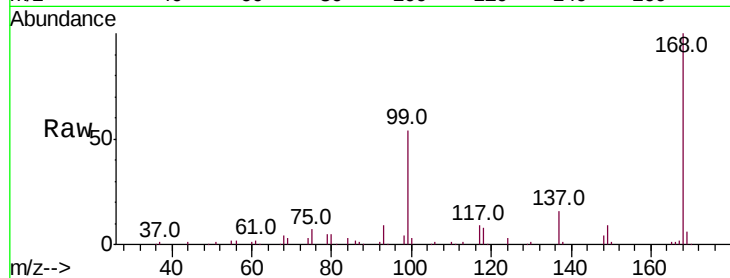




#36
 1,1-Dichloropropene
 Concen: 3.829 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

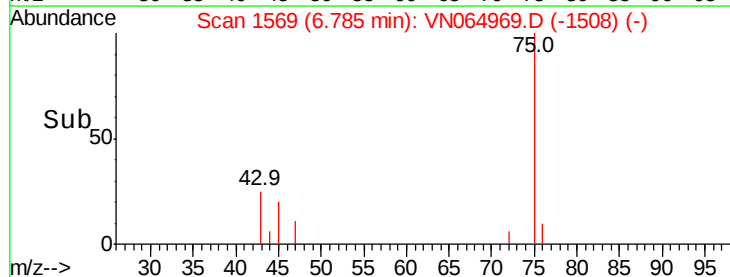
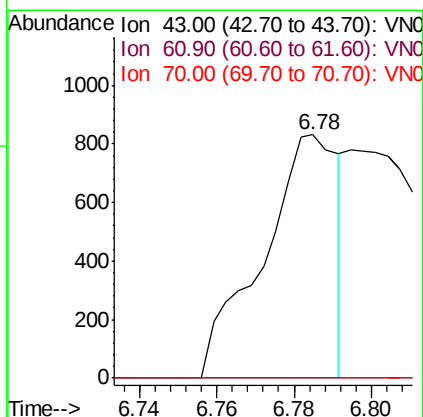
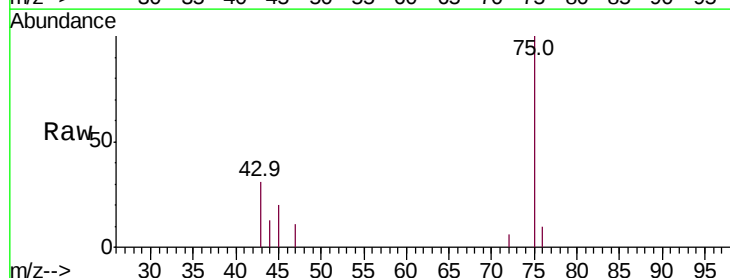
Instrument :
 MSVOA_N
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 PB133456ZHE#06

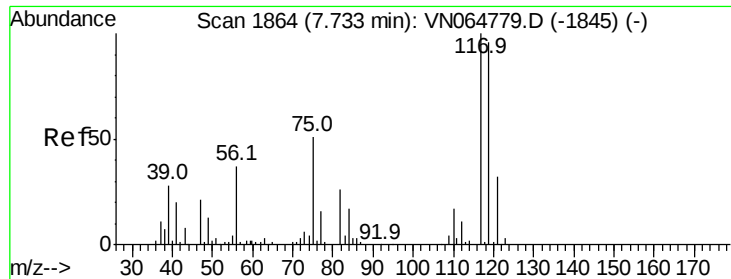
Tot Ion: 75 Resp: 11506
 Ion Ratio Lower Upper
 75 100
 110 8.1 17.8 53.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.388 ug/l
 RT: 6.78 min Scan# 1569
 Delta R.T. -0.10 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

Tgt Ion: 43 Resp: 1124
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.085 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#06

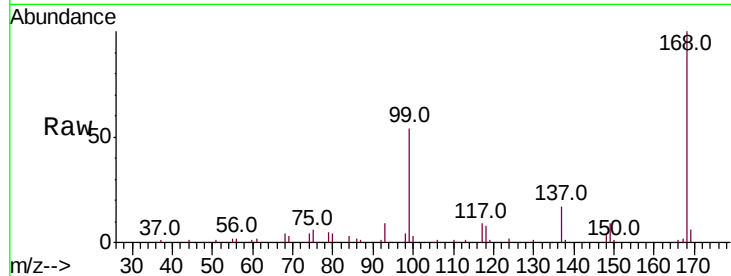
Tot Ion:117 Resp: 15899

Ion Ratio Lower Upper

117 100

119 6.0 76.7 115.1#

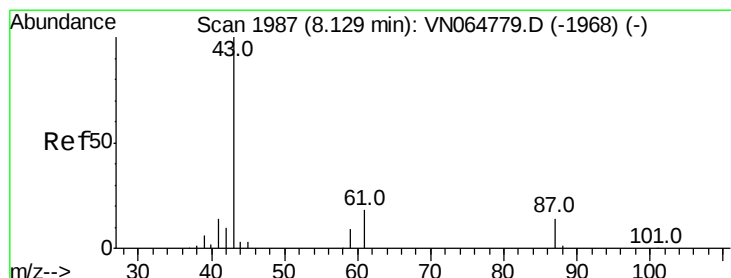
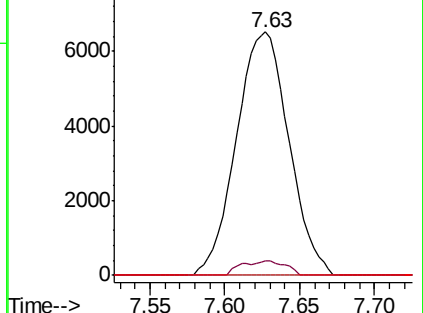
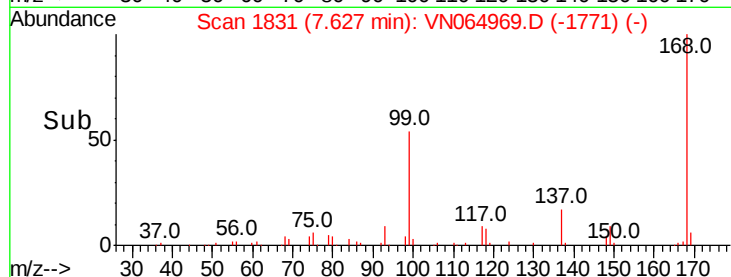
121 0.0 25.4 38.2#



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: 3.703 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

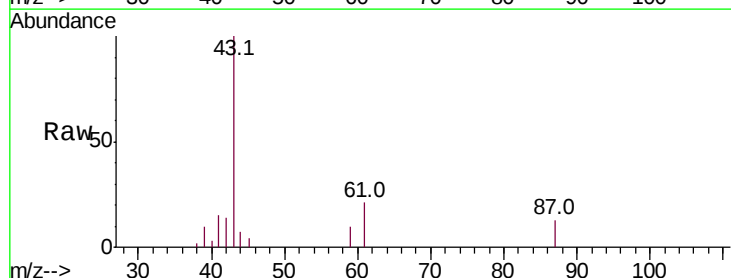
Tgt Ion: 43 Resp: 17248

Ion Ratio Lower Upper

43 100

61 16.7 17.2 25.8#

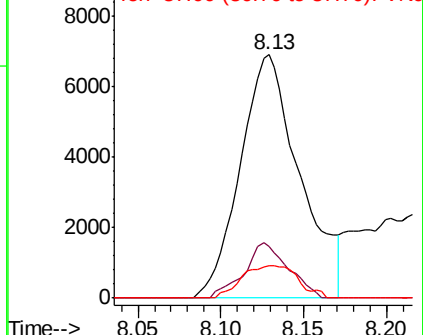
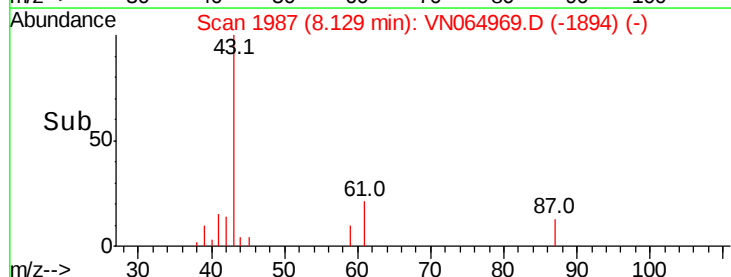
87 12.6 11.4 17.0

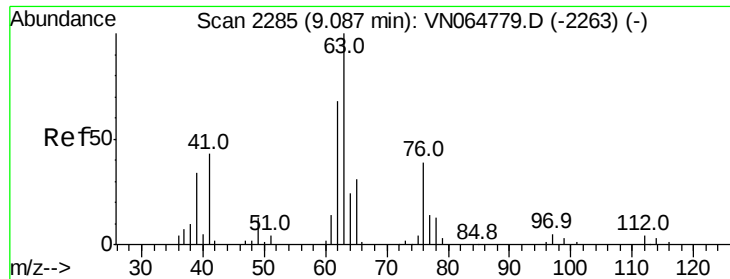


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

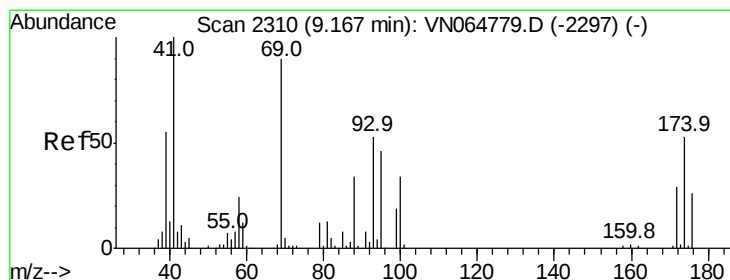
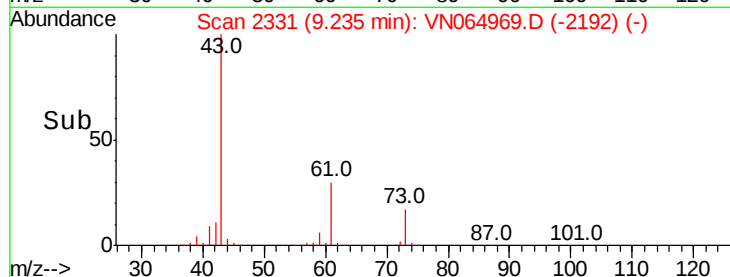
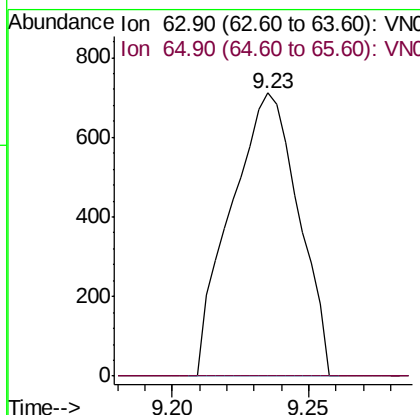
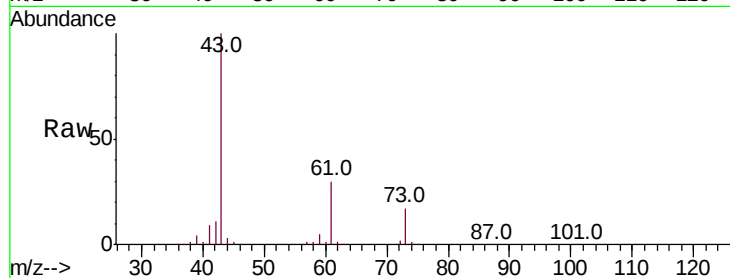




#45
 1,2-Dichloropropane
 Concen: 0.511 ug/l
 RT: 9.23 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

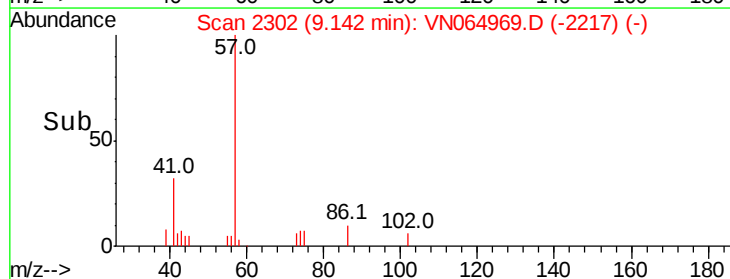
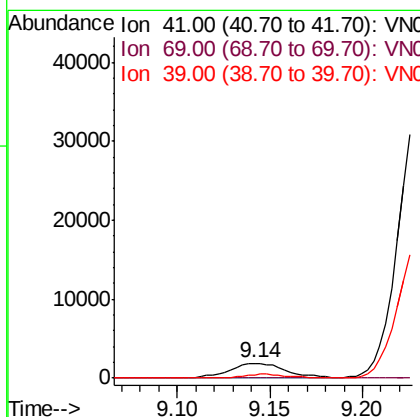
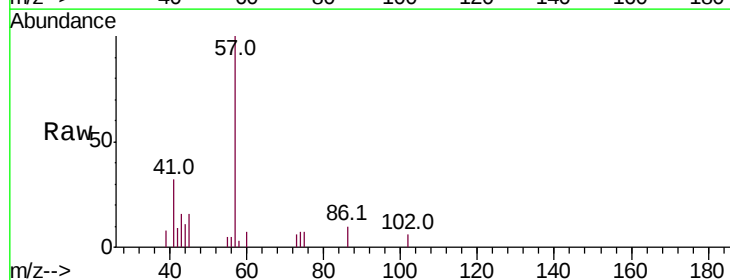
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#06

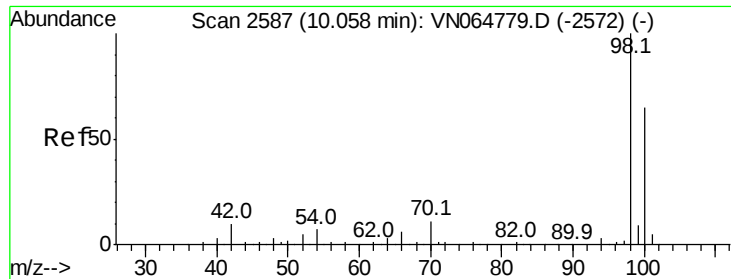
Tot Ion: 63 Resp: 1219
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.765 ug/l
 RT: 9.14 min Scan# 2302
 Delta R.T. -0.03 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

Tgt Ion: 41 Resp: 3928
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 50.957 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

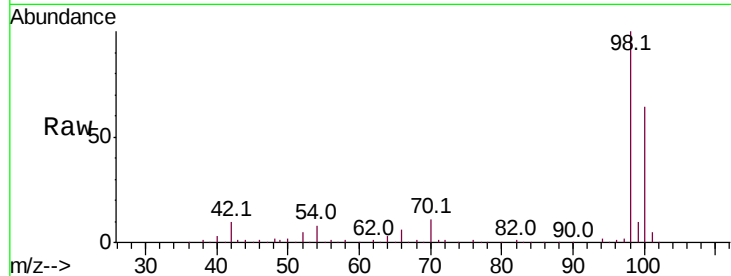
PB133456ZHE#06

Tot Ion: 98 Resp: 403882

Ion Ratio Lower Upper

98 100

100 64.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

250000

200000

150000

100000

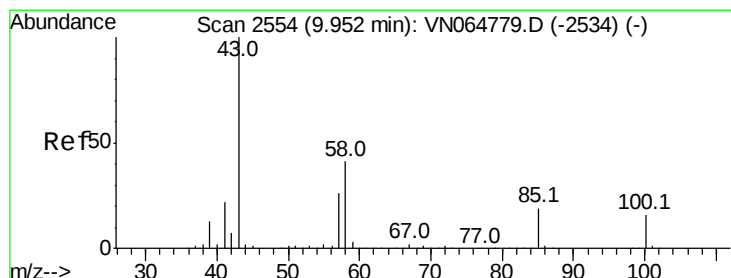
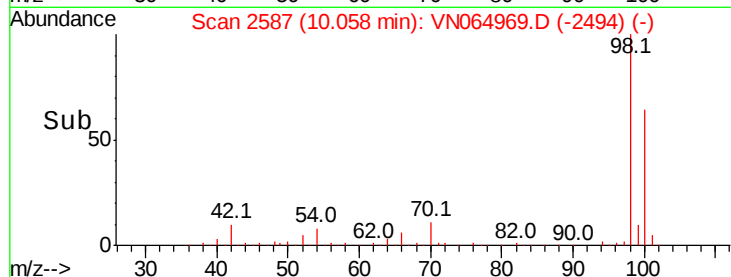
50000

0

10.06

10.10

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.303 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN064969.D

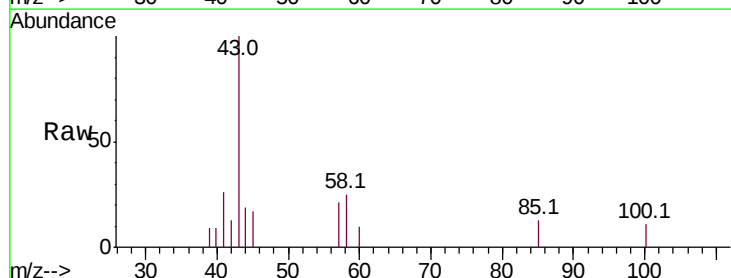
Acq: 8 Dec 2020 15:01

Tgt Ion: 43 Resp: 3643

Ion Ratio Lower Upper

43 100

58 29.7 32.4 48.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3000

2500

2000

1500

1000

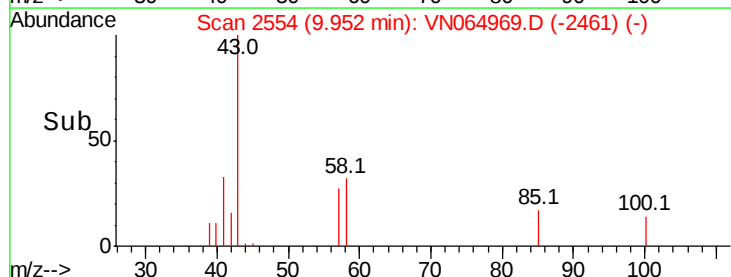
500

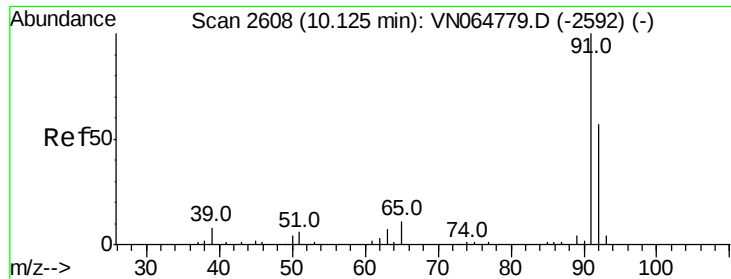
0

9.95

9.98

Time-->





#52

Toluene

Concen: 0.274 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

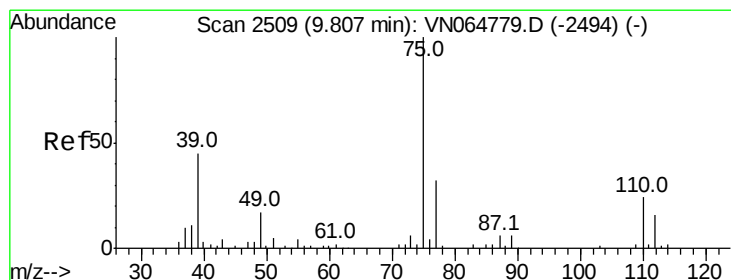
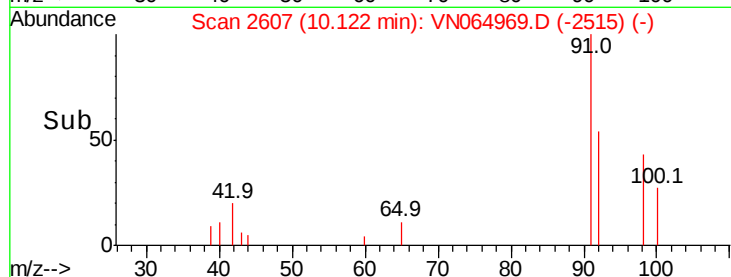
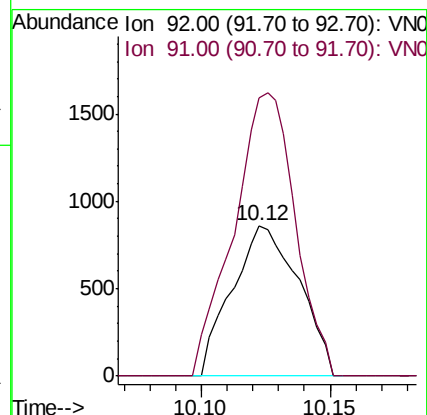
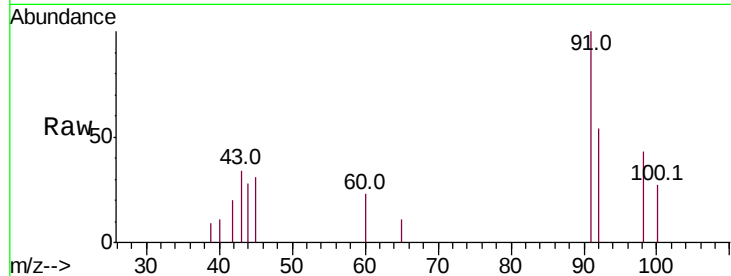
PB133456ZHE#06

Tot Ion: 92 Resp: 1551

Ion Ratio Lower Upper

92 100

91 174.0 139.1 208.7



#54

cis-1,3-Dichloropropene

Concen: 7.592 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

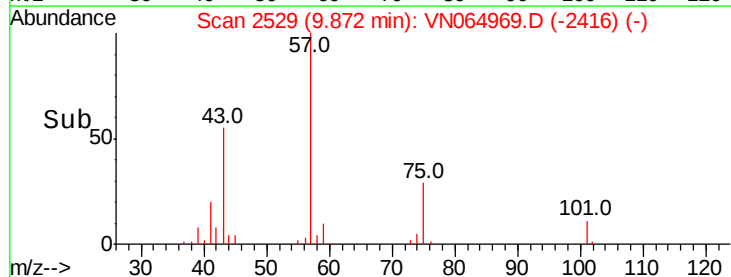
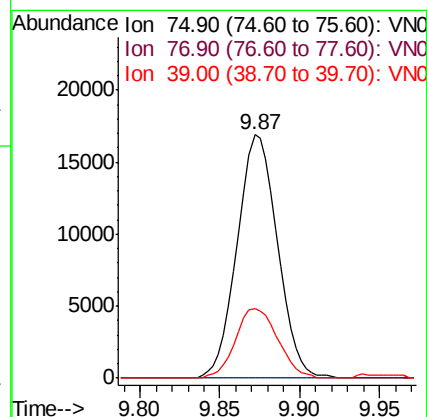
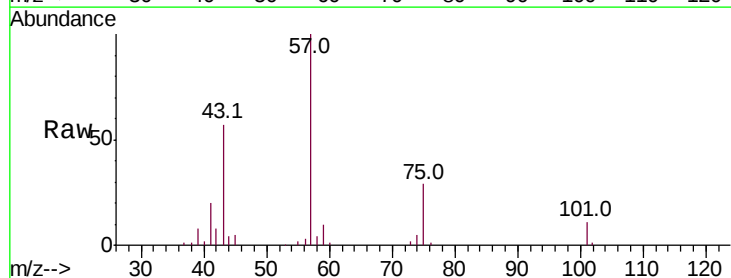
Tgt Ion: 75 Resp: 29054

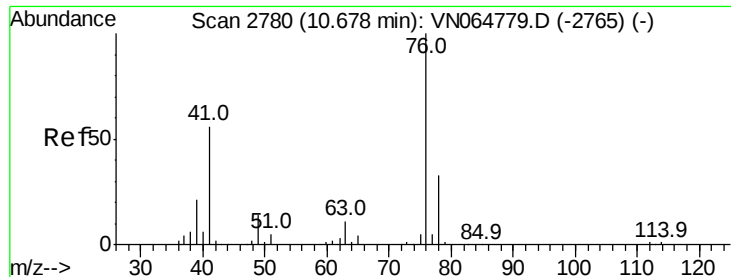
Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 28.3 35.6 53.4#





#57

1,3-Dichloropropane

Concen: 4.551 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

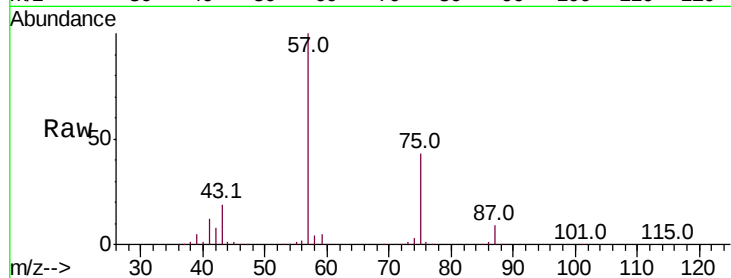
PB133456ZHE#06

Tot Ion: 76 Resp: 17505

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.73

12000

10000

8000

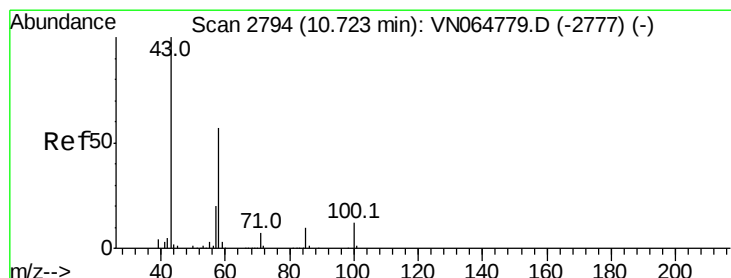
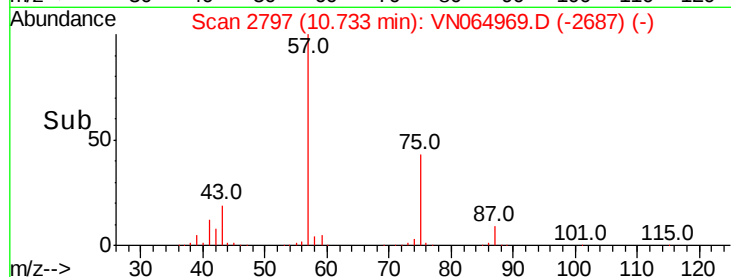
6000

4000

2000

0

Time-->



#59

2-Hexanone

Concen: 114.234 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN064969.D

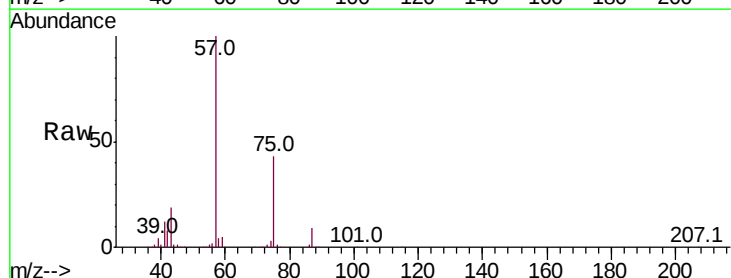
Acq: 8 Dec 2020 15:01

Tgt Ion: 43 Resp: 229882

Ion Ratio Lower Upper

43 100

58 20.2 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.74

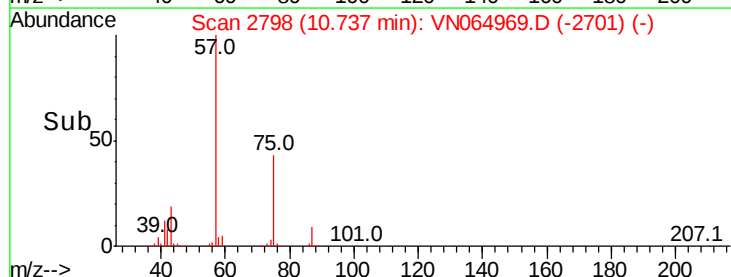
150000

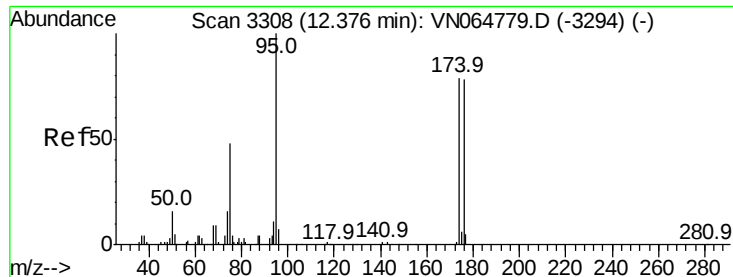
100000

50000

0

Time-->

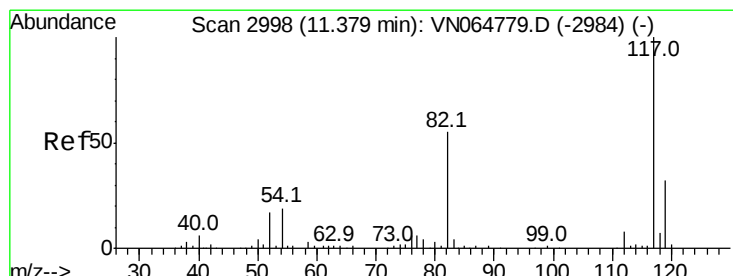
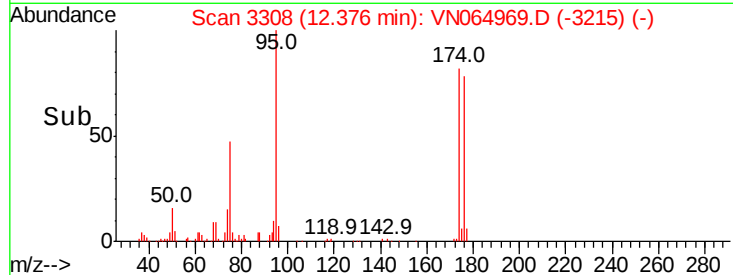
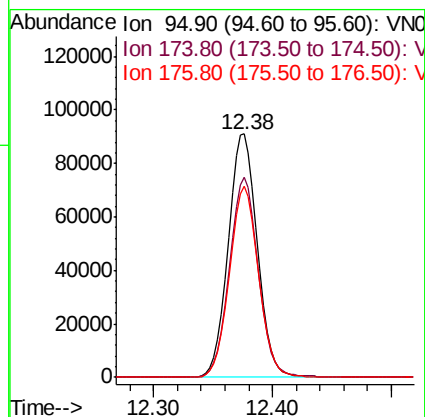
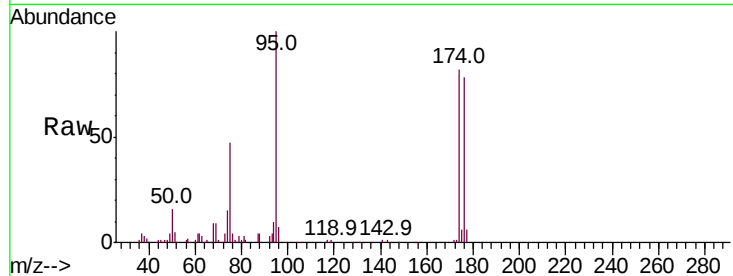




#62
4-Bromofluorobenzene
Concen: 54.368 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064969.D
Acq: 8 Dec 2020 15:01

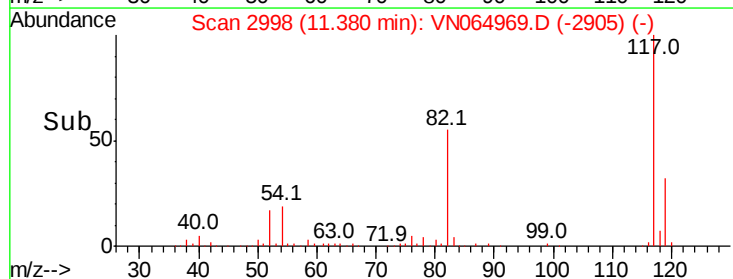
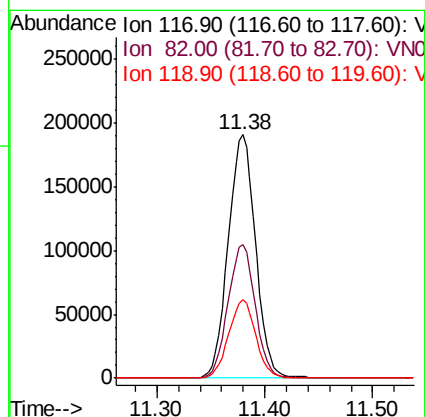
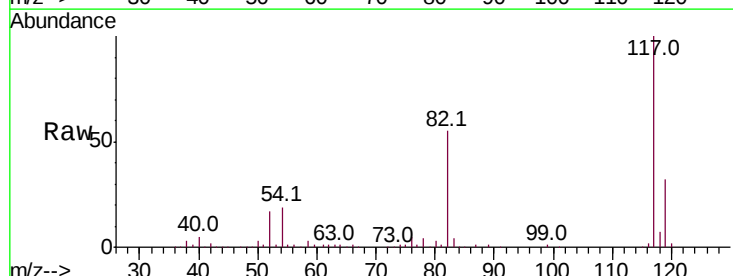
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#06

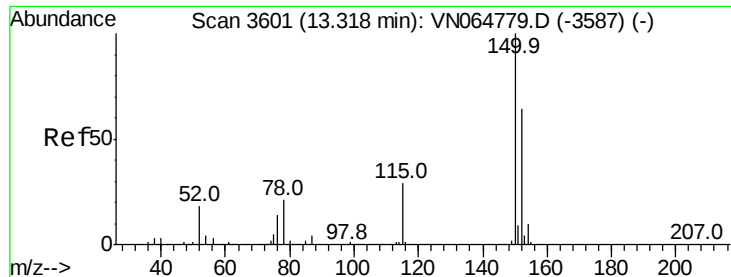
Tot Ion: 95 Resp: 154218
Ion Ratio Lower Upper
95 100
174 81.7 0.0 160.4
176 78.4 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064969.D
Acq: 8 Dec 2020 15:01

Tgt Ion: 117 Resp: 337716
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 32.0 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064969.D

Acq: 8 Dec 2020 15:01

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#06

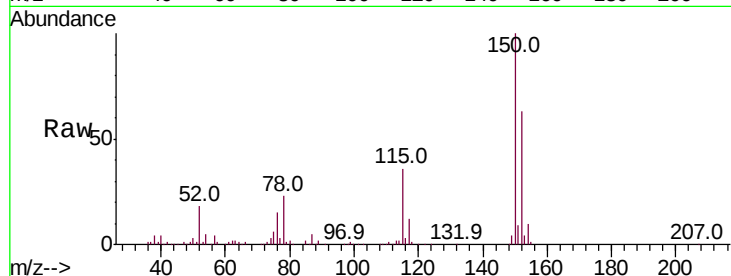
Tot Ion:152 Resp: 142909

Ion Ratio Lower Upper

152 100

115 58.4 29.7 89.1

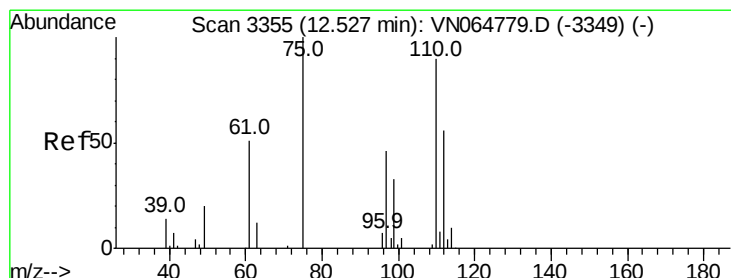
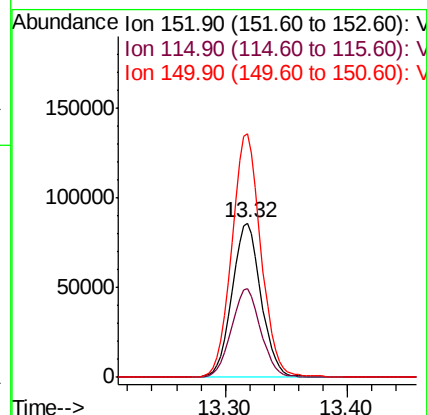
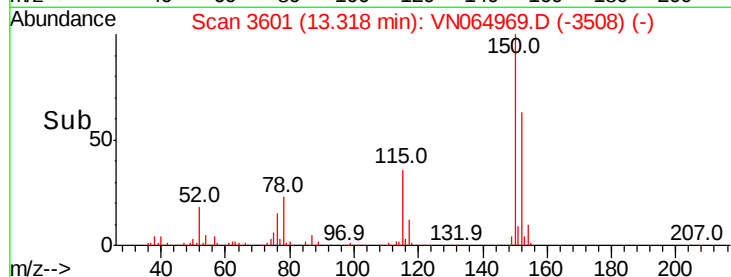
150 158.2 0.0 350.6



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: 23.716 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064969.D

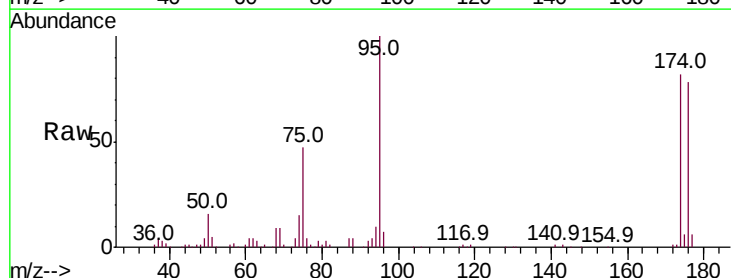
Acq: 8 Dec 2020 15:01

Tgt Ion: 75 Resp: 72991

Ion Ratio Lower Upper

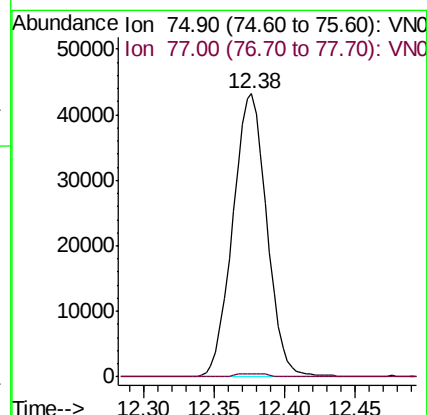
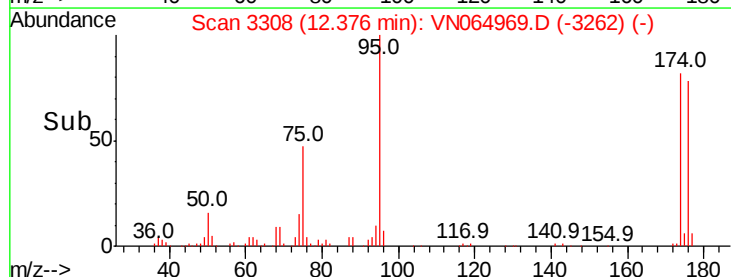
75 100

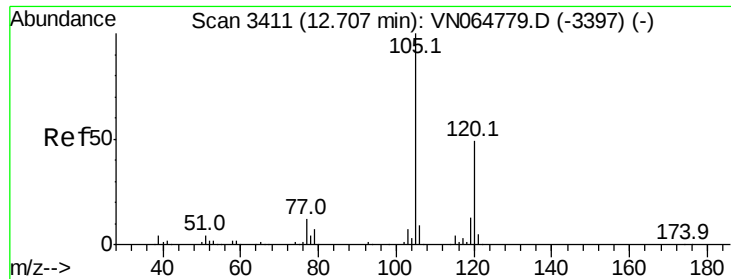
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

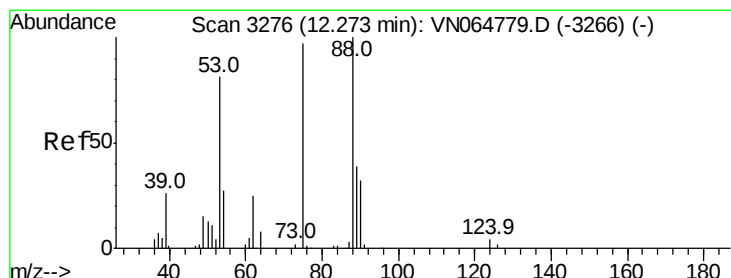
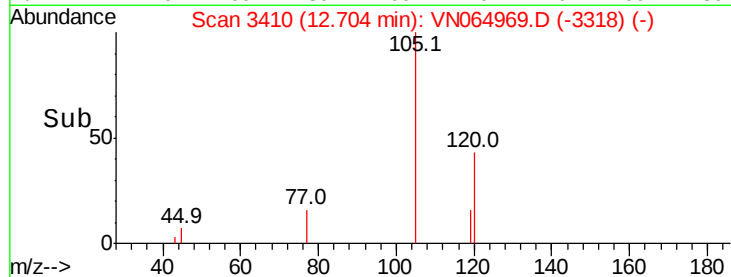
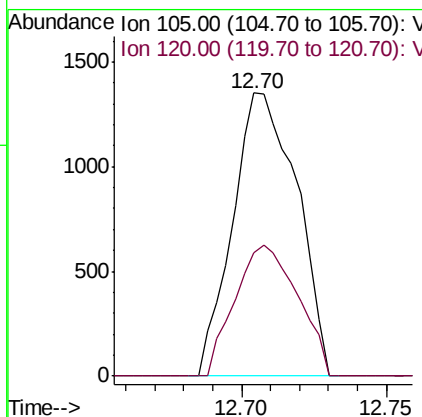
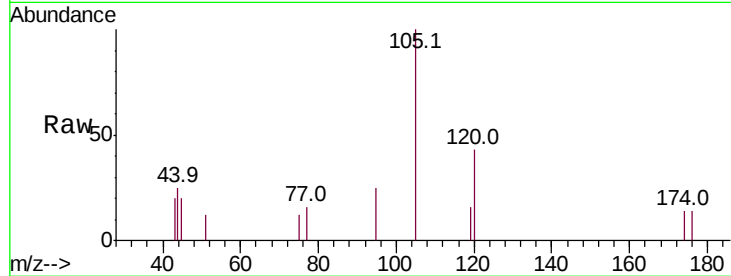




#80
 1,3,5-Trimethylbenzene
 Concen: 0.252 ug/l
 RT: 12.70 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#06

Tot Ion:105 Resp: 2079
 Ion Ratio Lower Upper
 105 100
 120 45.4 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 65.001 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064969.D
 Acq: 8 Dec 2020 15:01

Tgt Ion: 75 Resp: 72991
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

