

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120820\
 Data File : VN064966.D
 Acq On : 8 Dec 2020 13:49
 Operator : JC/MD
 Sample : PB133456ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#03

Quant Time: Dec 09 06:51:55 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	173746	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	321320	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	343600	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	146843	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	108868	53.90	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	107.80%		
35) Dibromofluoromethane	7.55	113	100791	52.42	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	104.84%		
50) Toluene-d8	10.06	98	407955	51.93	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.86%		
62) 4-Bromofluorobenzene	12.37	95	156879	55.80	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	111.60%		

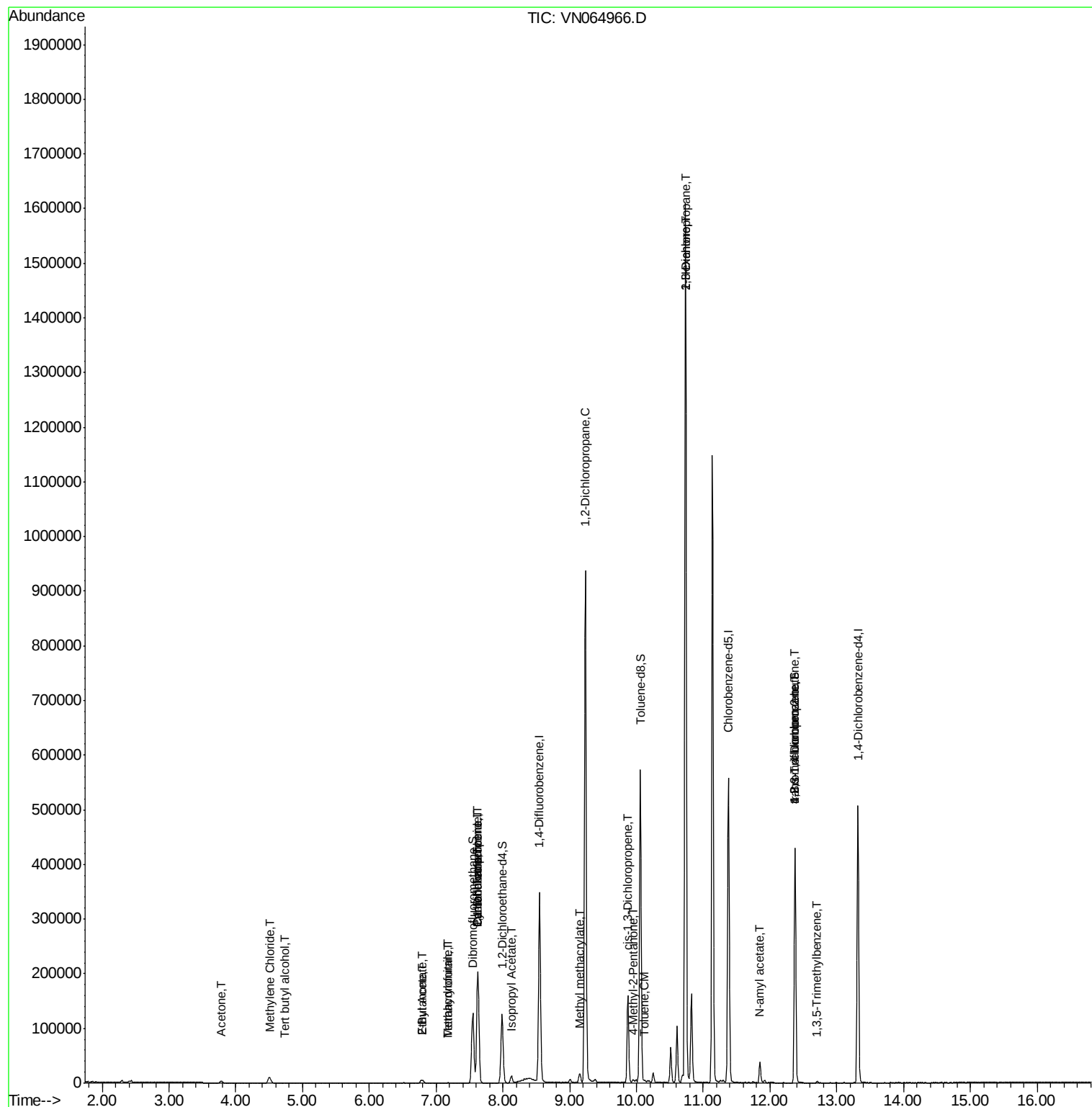
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	308	0.978	ug/l #	73
16) Acetone	3.78	43	5987	9.017	ug/l	96
20) Methylene Chloride	4.51	84	8701	4.182	ug/l	94
25) 2-Butanone	6.79	43	3371	3.132	ug/l	97
29) Tetrahydrofuran	7.18	42	786	1.058	ug/l #	35
31) Cyclohexane	7.62	56	2952	1.049	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11834	3.973	ug/l #	47
37) Ethyl Acetate	6.79	43	3371	1.175	ug/l #	70
38) Carbon Tetrachloride	7.63	117	16589	5.353	ug/l #	17
41) Methacrylonitrile	7.18	41	574	0.434	ug/l #	15
43) Isopropyl Acetate	8.13	43	16138	3.496	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1052	0.445	ug/l #	43
48) Methyl methacrylate	9.14	41	4280	1.940	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3856	1.391	ug/l	89
52) Toluene	10.12	92	1240	0.221	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	29621	7.810	ug/l #	62
57) 1,3-Dichloropropane	10.73	76	17313	4.541	ug/l #	42
59) 2-Hexanone	10.73	43	225497	113.055	ug/l #	50
74) N-amyl acetate	11.85	43	11057	2.751	ug/l #	53
76) 1,2,3-Trichloropropane	12.37	75	75061	23.736	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1764	0.208	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.37	75	75061	65.053	ug/l #	15

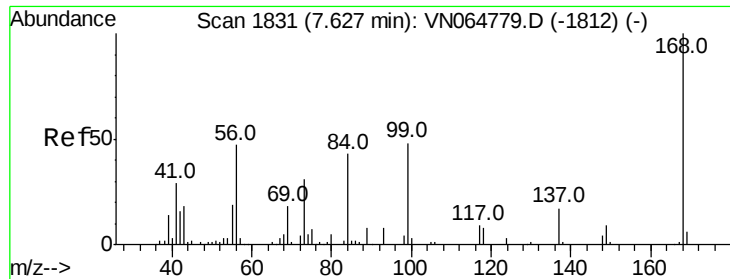
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 09 06:51:55 2020
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Quant Title : SW846 8260
QLast Update : Mon Nov 23 13:54:12 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

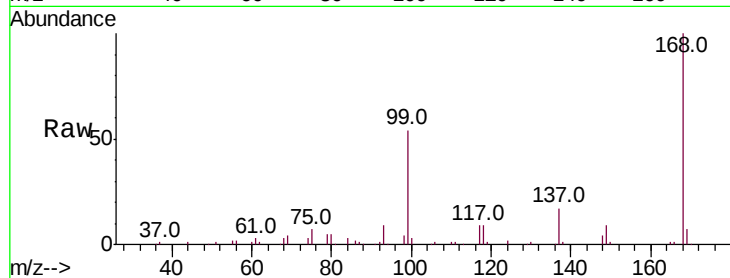
PB133456ZHE#03

Tot Ion:168 Resp: 173746

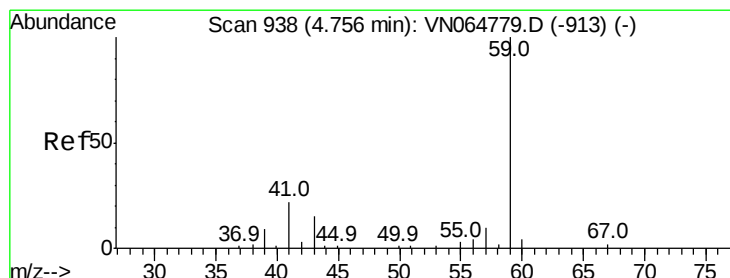
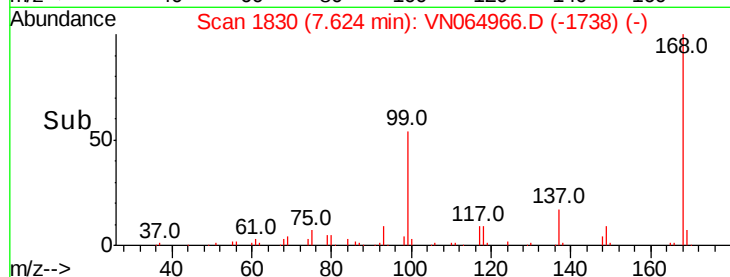
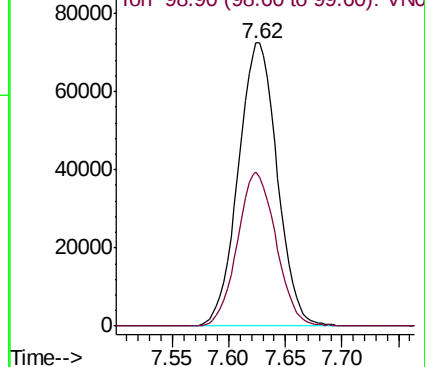
Ion Ratio Lower Upper

168 100

99 54.5 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): VN064779.D (-1812) (-)



#11

Tert butyl alcohol

Concen: 0.978 ug/l

RT: 4.73 min Scan# 931

Delta R.T. -0.02 min

Lab File: VN064966.D

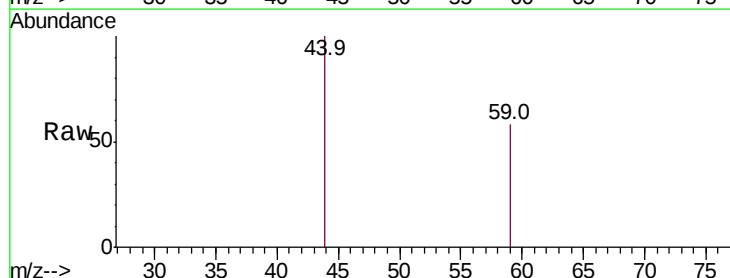
Acq: 8 Dec 2020 13:49

Tgt Ion: 59 Resp: 308

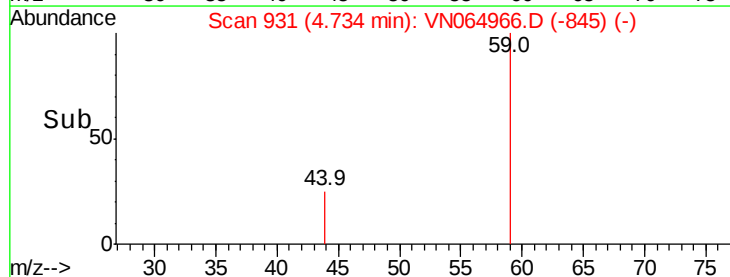
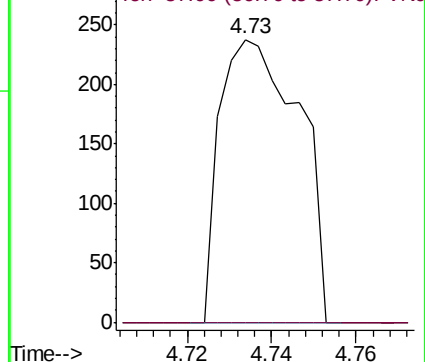
Ion Ratio Lower Upper

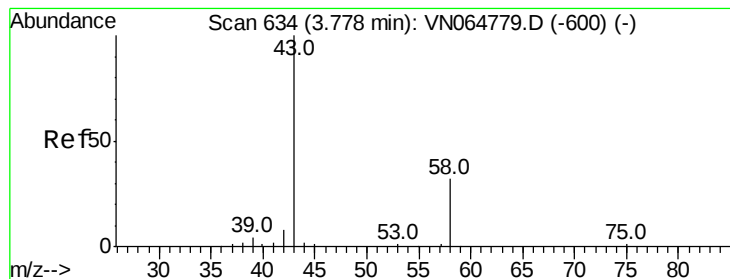
59 100

57 0.0 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VN064779.D (-913) (-)





#16

Acetone

Concen: 9.017 ug/l

RT: 3.78 min Scan# 634

Delta R.T. 0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

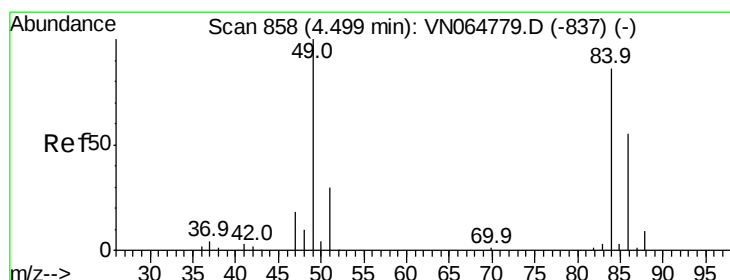
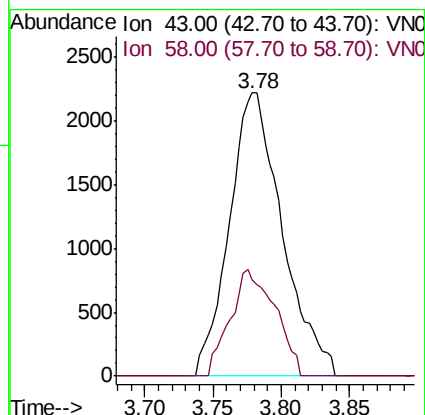
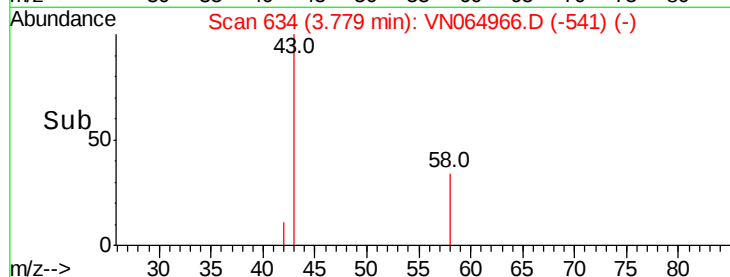
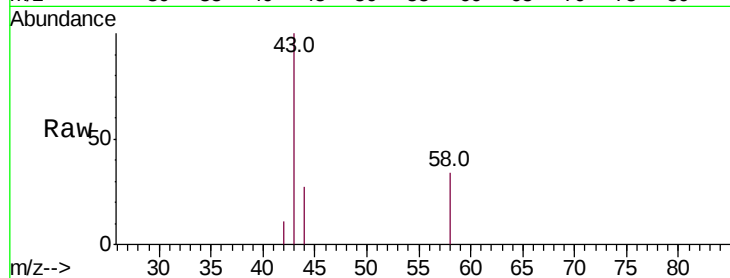
PB133456ZHE#03

Tot Ion: 43 Resp: 5987

Ion Ratio Lower Upper

43 100

58 34.1 25.7 38.5



#20

Methylene Chloride

Concen: 4.182 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Tgt Ion: 84 Resp: 8701

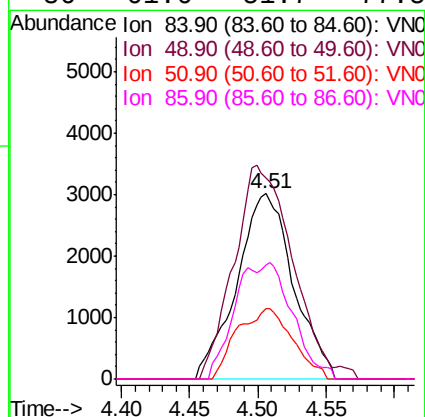
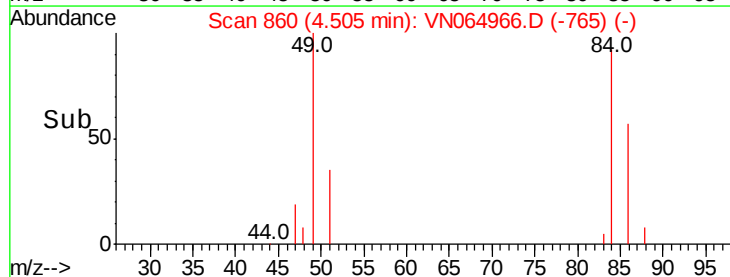
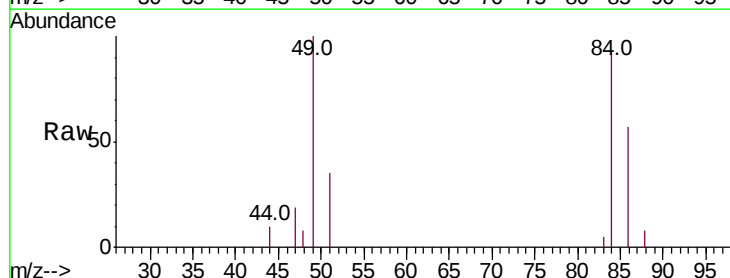
Ion Ratio Lower Upper

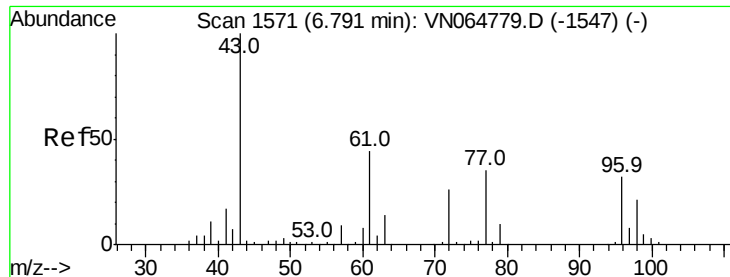
84 100

49 108.6 93.4 140.0

51 38.2 28.2 42.4

86 61.6 51.7 77.5

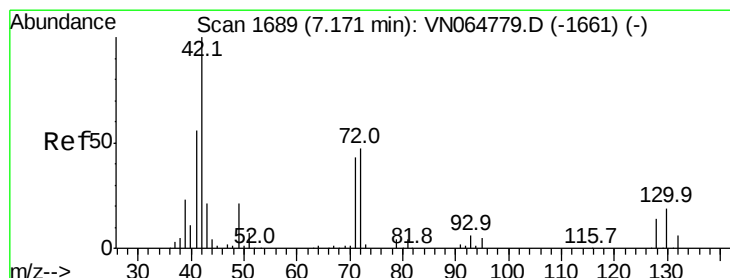
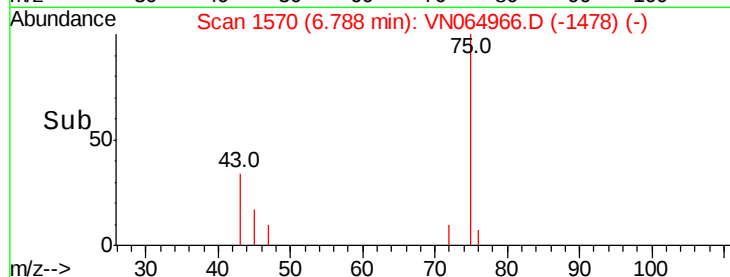
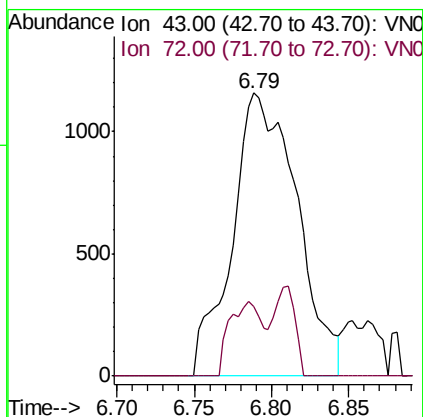
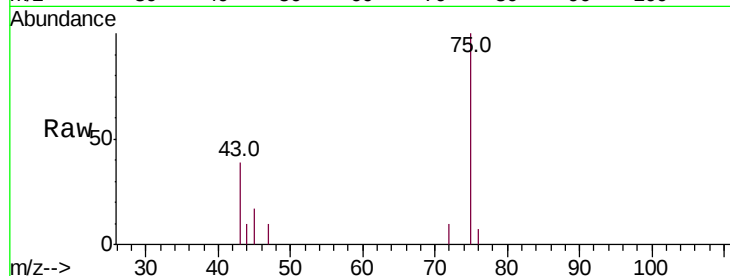




#25
2-Butanone
Concen: 3.132 ug/l
RT: 6.79 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN064966.D
Acq: 8 Dec 2020 13:49

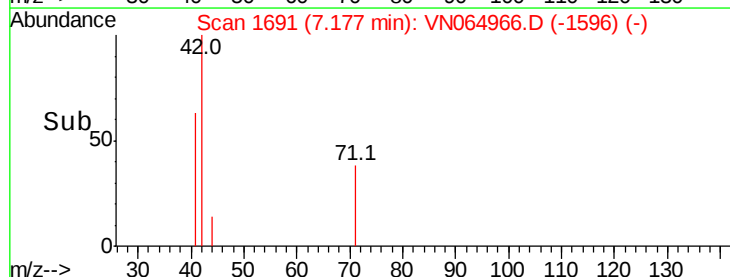
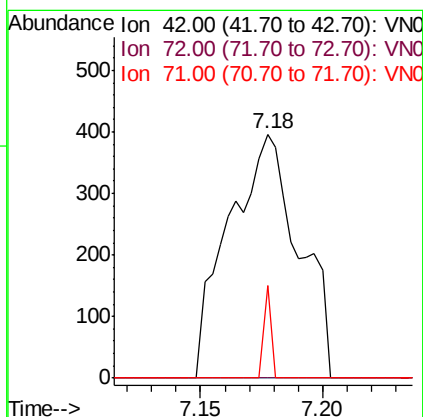
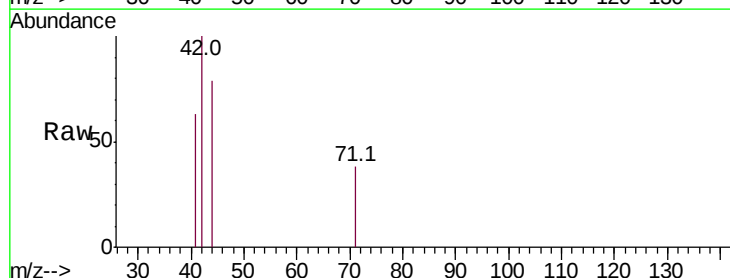
Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#03

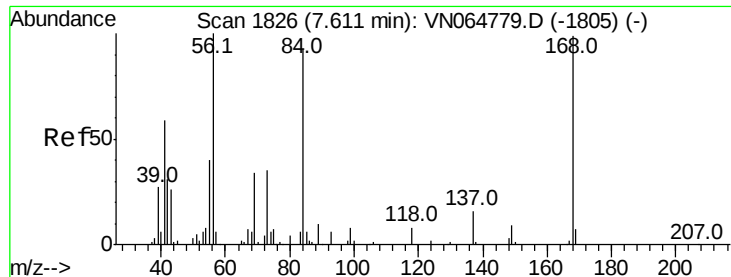
Tot Ion: 43 Resp: 3371
Ion Ratio Lower Upper
43 100
72 24.8 21.0 31.6



#29
Tetrahydrofuran
Concen: 1.058 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.01 min
Lab File: VN064966.D
Acq: 8 Dec 2020 13:49

Tgt Ion: 42 Resp: 786
Ion Ratio Lower Upper
42 100
72 0.0 36.6 54.8#
71 3.7 33.6 50.4#





#31

Cyclohexane

Concen: 1.049 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#03

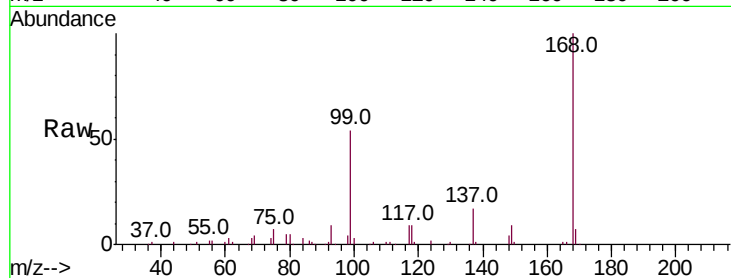
Tot Ion: 56 Resp: 2952

Ion Ratio Lower Upper

56 100

69 199.1 27.5 41.3#

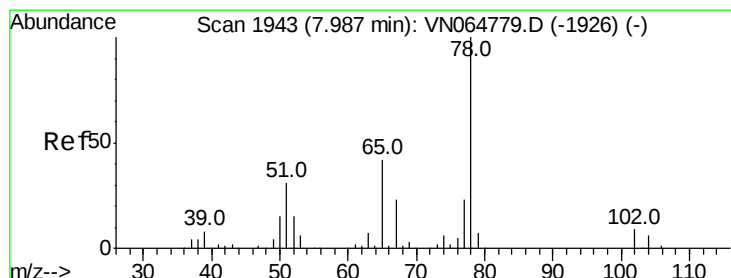
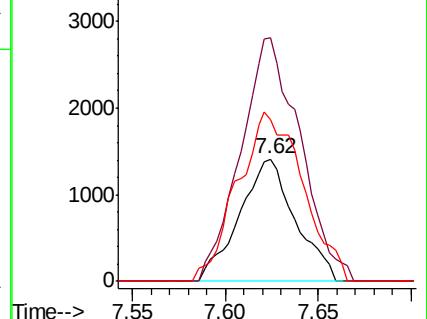
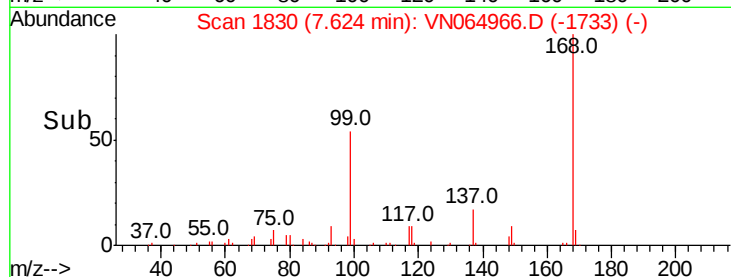
84 132.5 73.9 110.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.897 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064966.D

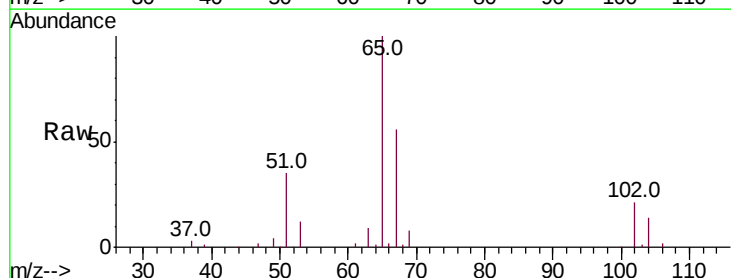
Acq: 8 Dec 2020 13:49

Tgt Ion: 65 Resp: 108868

Ion Ratio Lower Upper

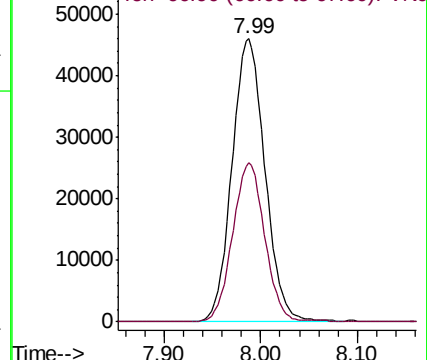
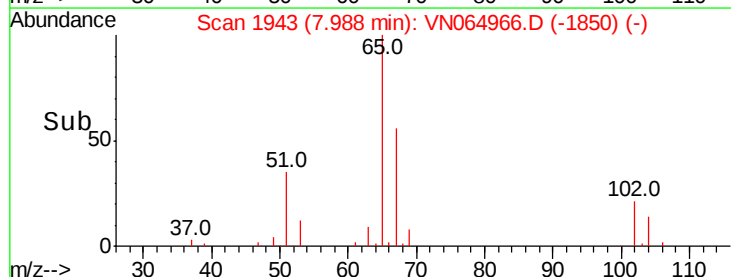
65 100

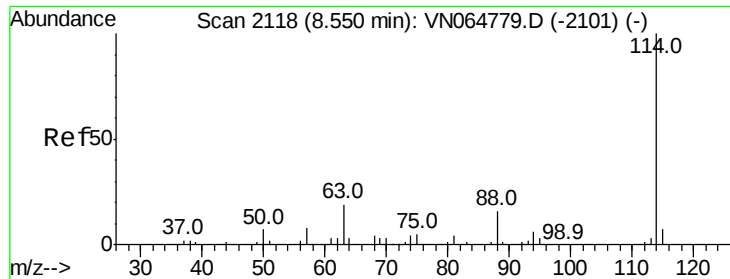
67 54.7 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

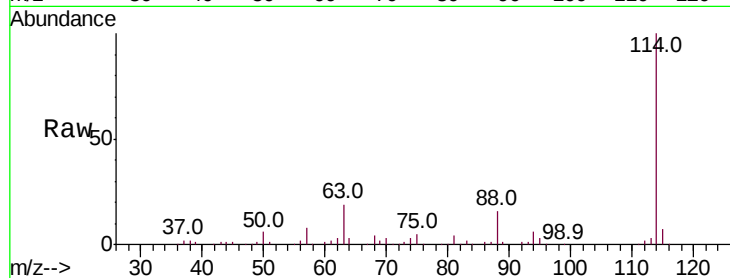




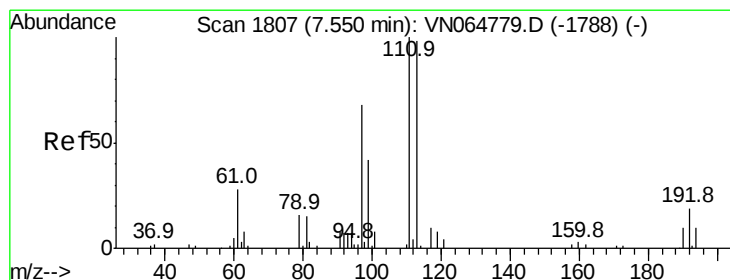
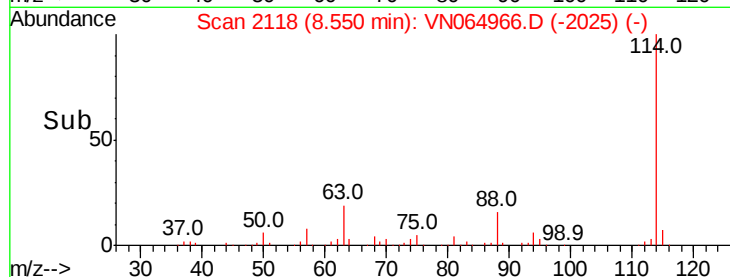
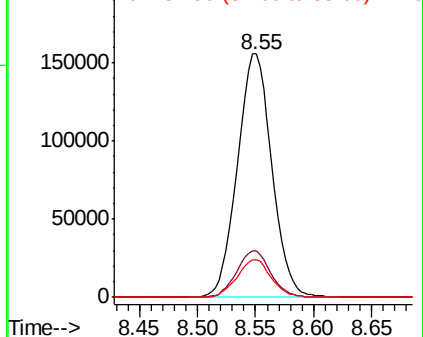
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064966.D
 Acq: 8 Dec 2020 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#03

Tot Ion:114 Resp: 321320
 Ion Ratio Lower Upper
 114 100
 63 18.9 0.0 38.6
 88 15.6 0.0 32.6

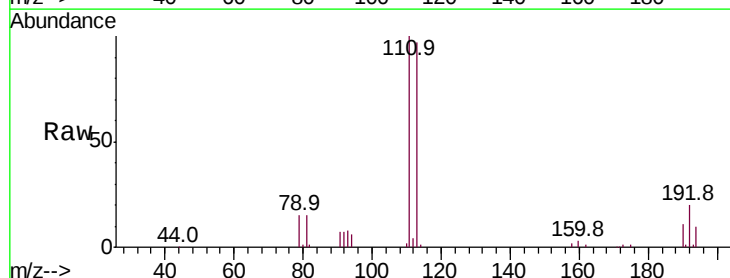


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

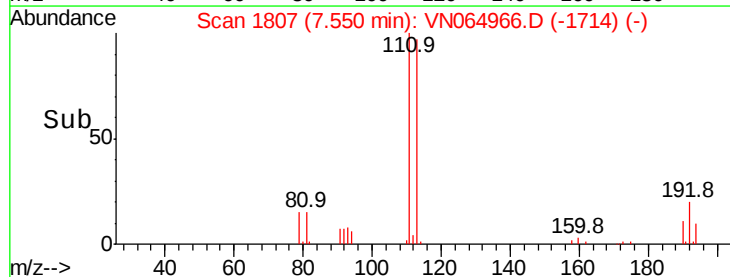
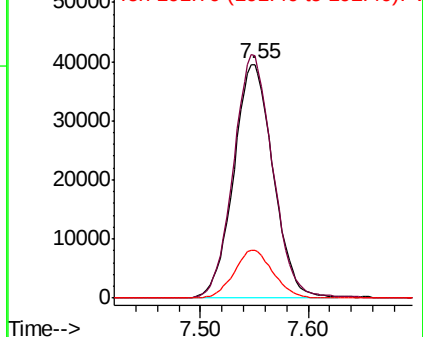


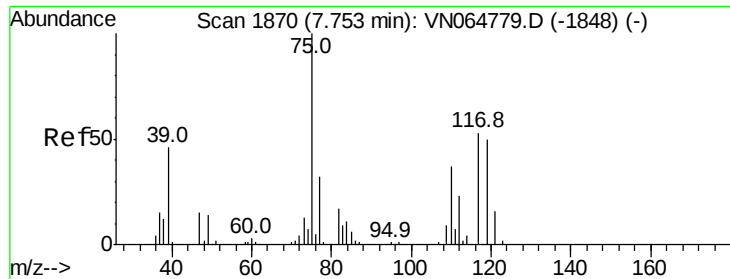
#35
 Dibromofluoromethane
 Concen: 52.422 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064966.D
 Acq: 8 Dec 2020 13:49

Tgt Ion:113 Resp: 100791
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.6 122.4
 192 20.1 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: 3.973 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#03

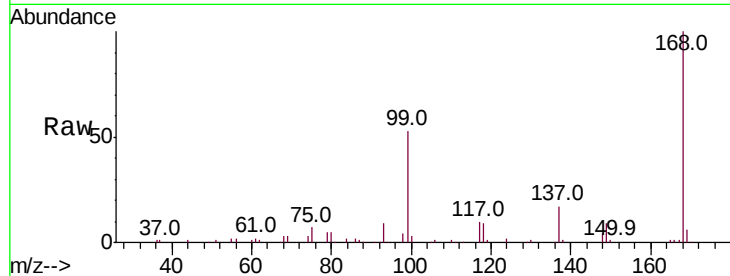
Tot Ion: 75 Resp: 11834

Ion Ratio Lower Upper

75 100

110 6.5 17.8 53.3#

77 0.0 25.0 37.4#

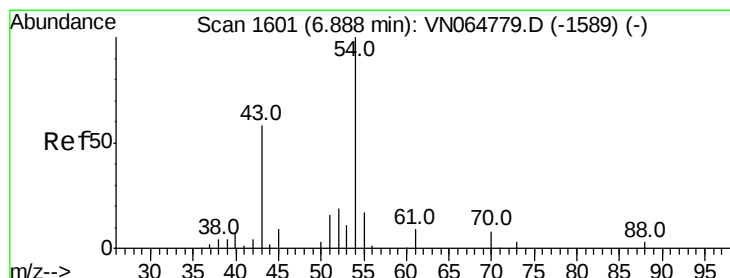
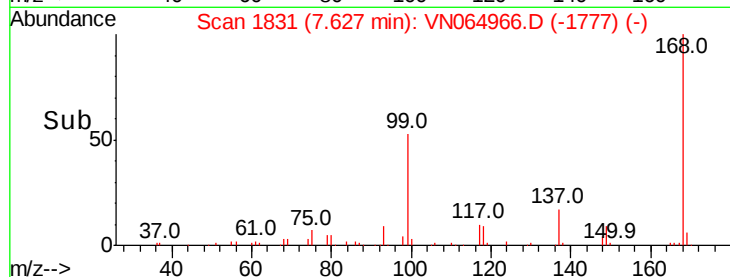


Abundance Ion 74.90 (74.60 to 75.60): VN064966.D (-1777) (-)

Ion 109.90 (109.60 to 110.60): VN064966.D (-1777) (-)

Ion 76.90 (76.60 to 77.60): VN064966.D (-1777) (-)

Time-->



#37

Ethyl Acetate

Concen: 1.175 ug/l

RT: 6.79 min Scan# 1570

Delta R.T. -0.10 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

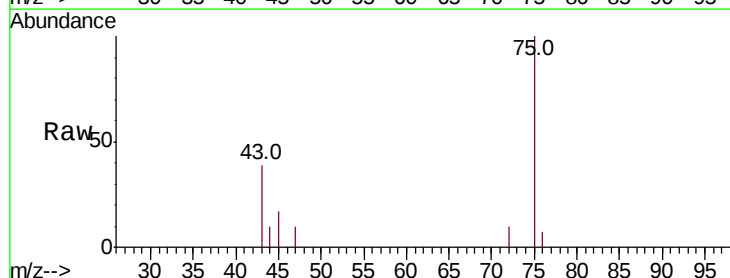
Tgt Ion: 43 Resp: 3371

Ion Ratio Lower Upper

43 100

61 2.9 12.8 19.2#

70 0.0 8.8 13.2#

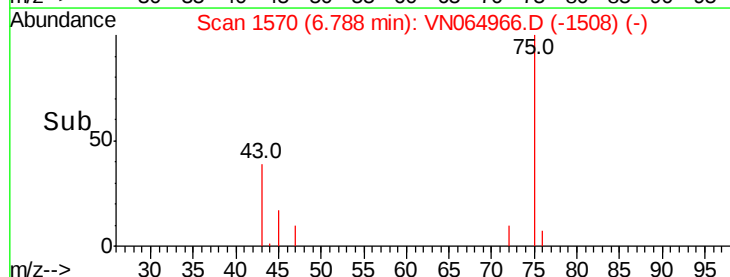


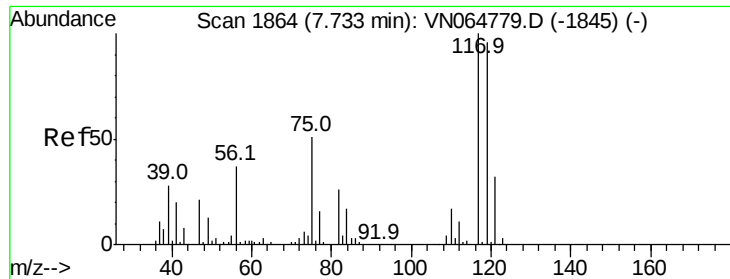
Abundance Ion 43.00 (42.70 to 43.70): VN064966.D (-1508) (-)

Ion 60.90 (60.60 to 61.60): VN064966.D (-1508) (-)

Ion 70.00 (69.70 to 70.70): VN064966.D (-1508) (-)

Time-->

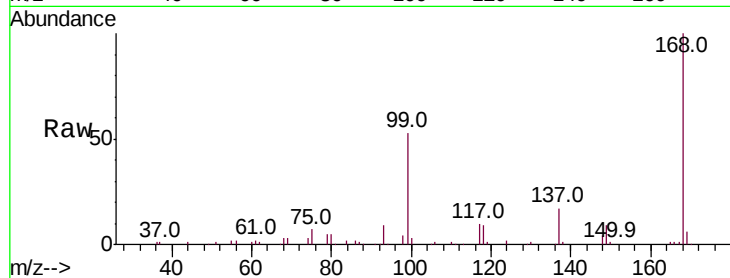




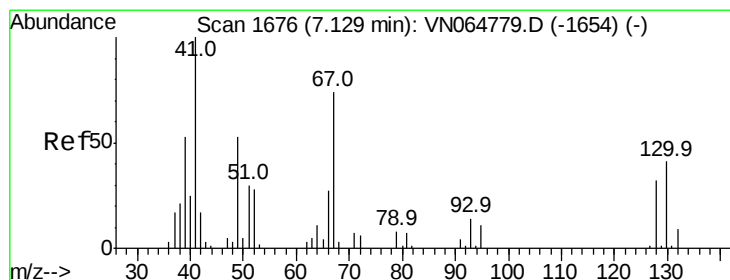
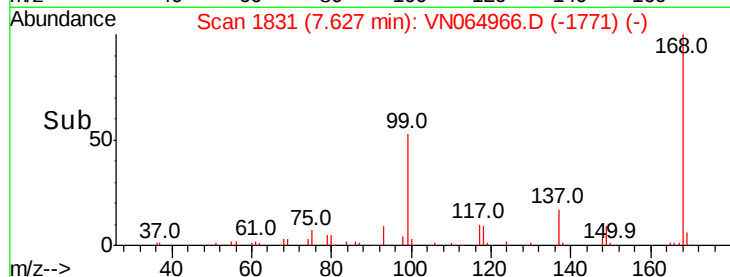
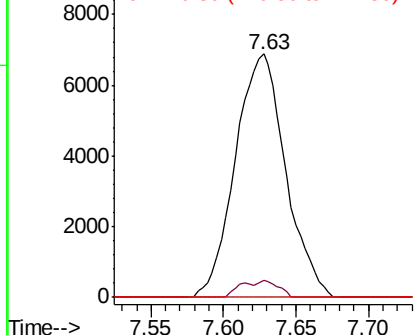
#38
Carbon Tetrachloride
Concen: 5.353 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064966.D
Acq: 8 Dec 2020 13:49

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#03

Tot Ion:117 Resp: 16589
Ion Ratio Lower Upper
117 100
119 7.0 76.7 115.1#
121 0.0 25.4 38.2#

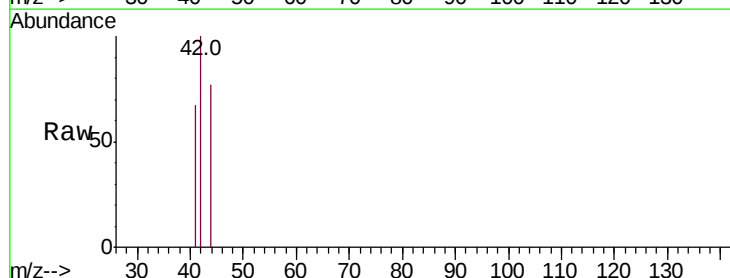


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

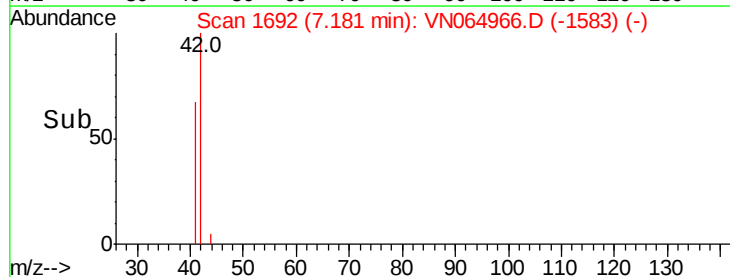
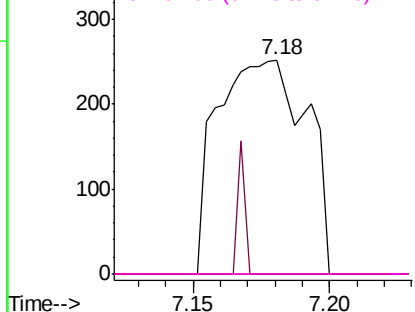


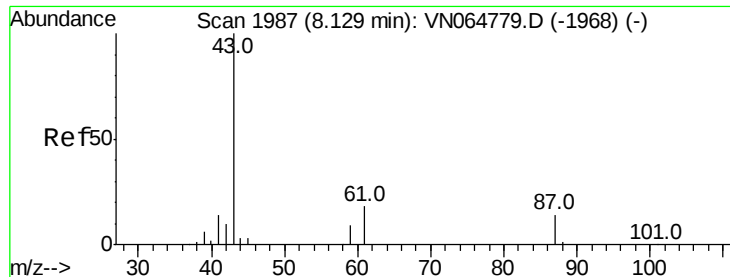
#41
Methacrylonitrile
Concen: 0.434 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.05 min
Lab File: VN064966.D
Acq: 8 Dec 2020 13:49

Tgt Ion: 41 Resp: 574
Ion Ratio Lower Upper
41 100
39 5.2 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 3.496 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#03

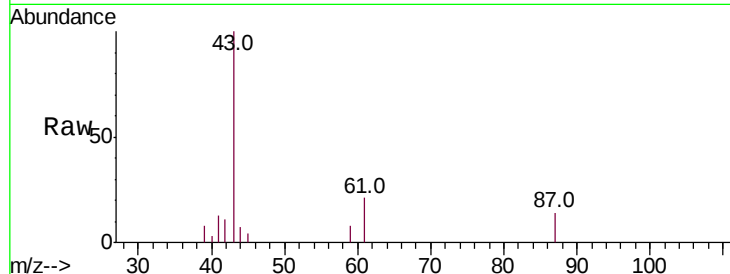
Tot Ion: 43 Resp: 16138

Ion Ratio Lower Upper

43 100

61 20.2 17.2 25.8

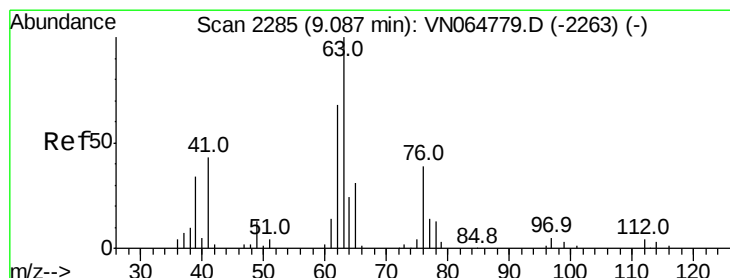
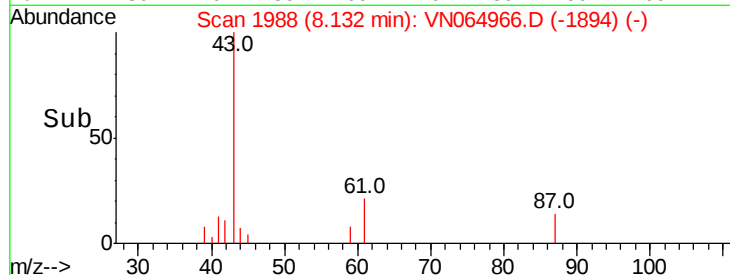
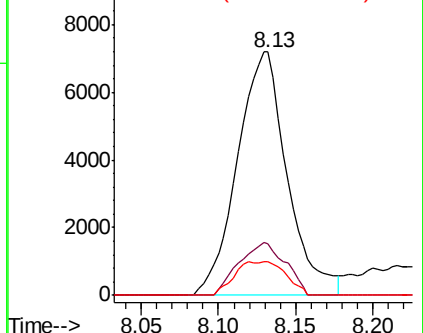
87 7.1 11.4 17.0#



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: 0.445 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064966.D

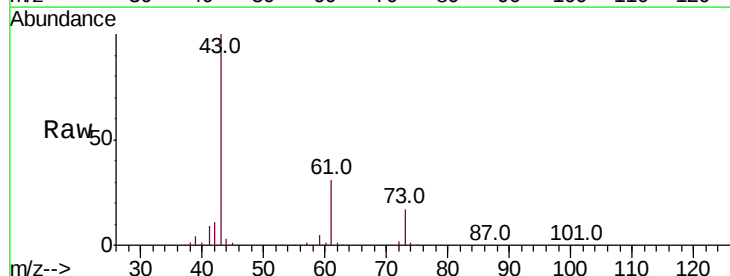
Acq: 8 Dec 2020 13:49

Tgt Ion: 63 Resp: 1052

Ion Ratio Lower Upper

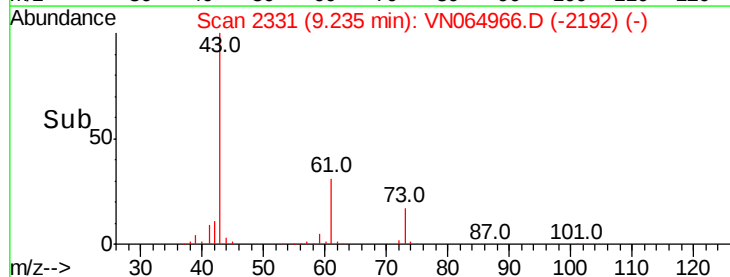
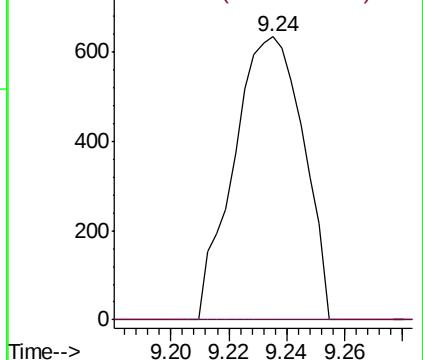
63 100

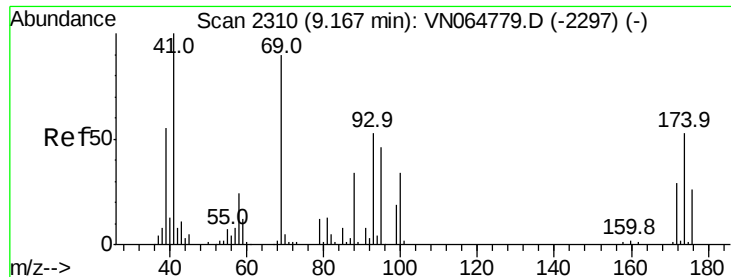
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

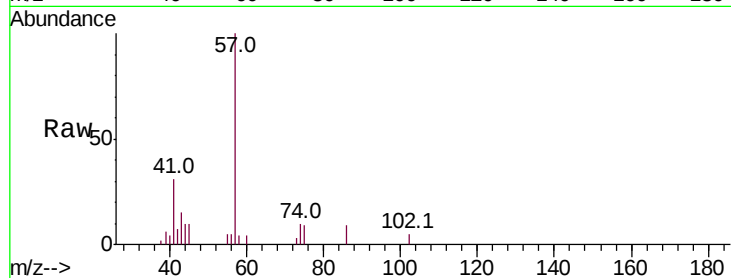




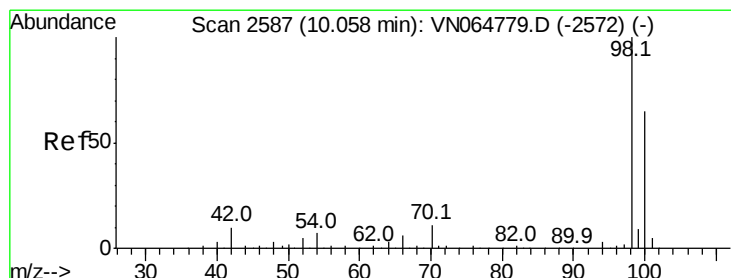
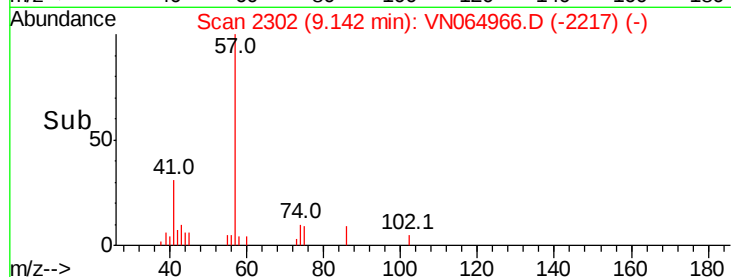
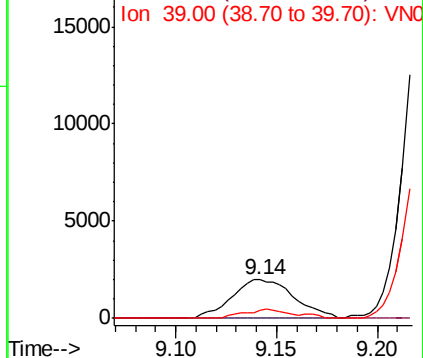
#48
Methvl methacrylate
Concen: 1.940 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN064966.D
Acq: 8 Dec 2020 13:49

Instrument :
MSVOA_N
ClientSampleId :
PB133456ZHE#03

Tot Ion: 41 Resp: 4280
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

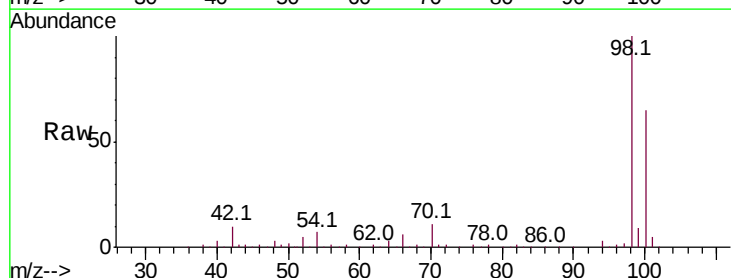


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

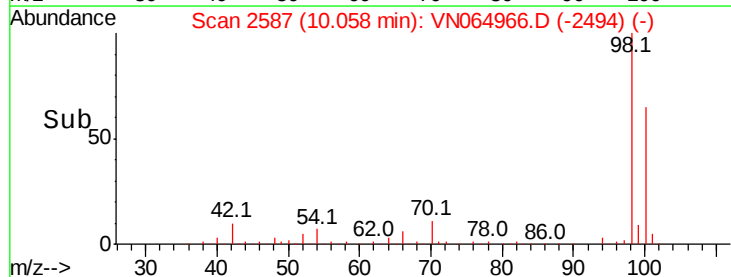
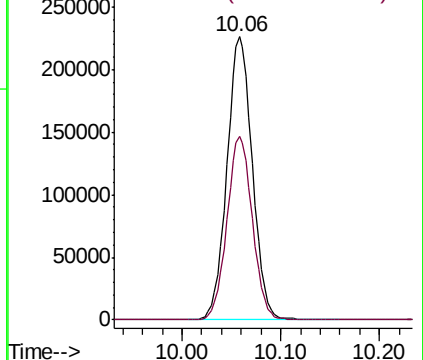


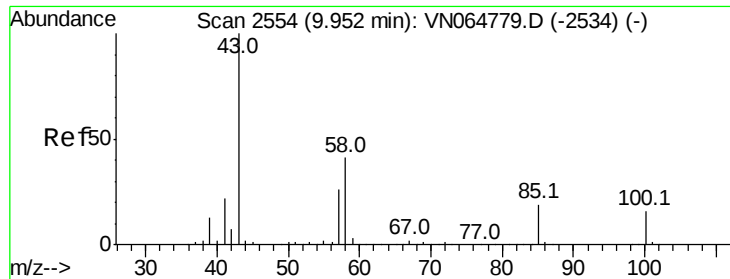
#50
Toluene-d8
Concen: 51.930 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064966.D
Acq: 8 Dec 2020 13:49

Tgt Ion: 98 Resp: 407955
Ion Ratio Lower Upper
98 100
100 64.9 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.391 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

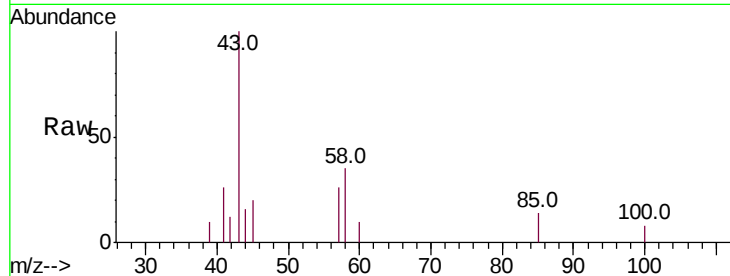
PB133456ZHE#03

Tot Ion: 43 Resp: 3856

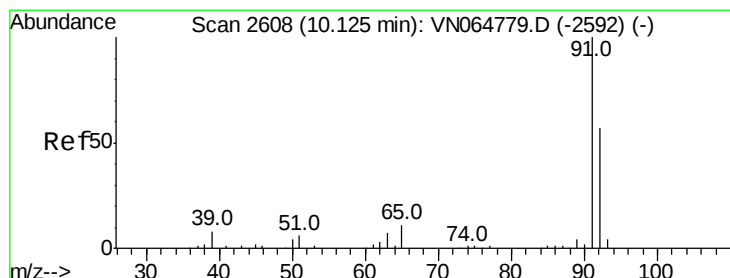
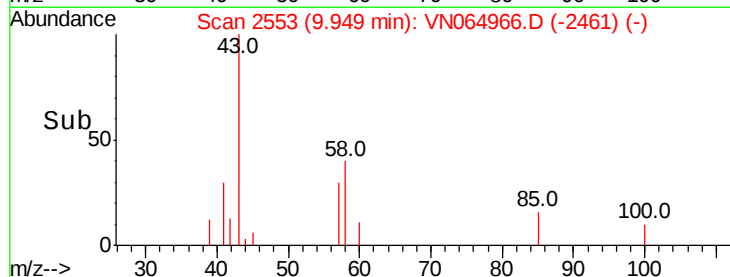
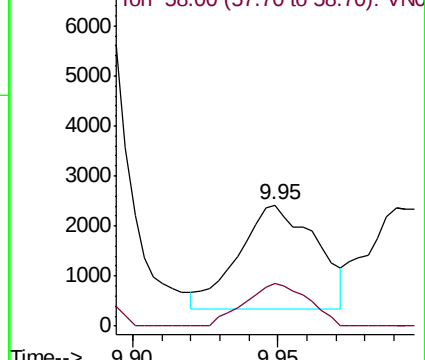
Ion Ratio Lower Upper

43 100

58 33.4 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-2534) (-)



#52

Toluene

Concen: 0.221 ug/l

RT: 10.12 min Scan# 2606

Delta R.T. -0.01 min

Lab File: VN064966.D

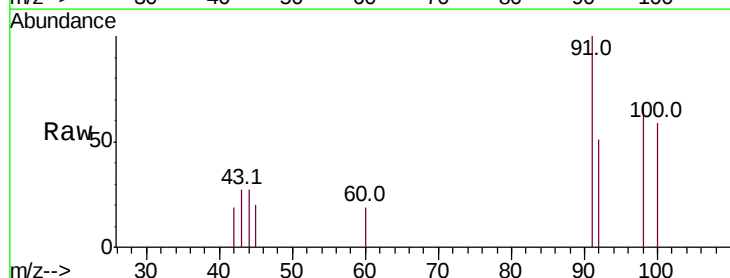
Acq: 8 Dec 2020 13:49

Tgt Ion: 92 Resp: 1240

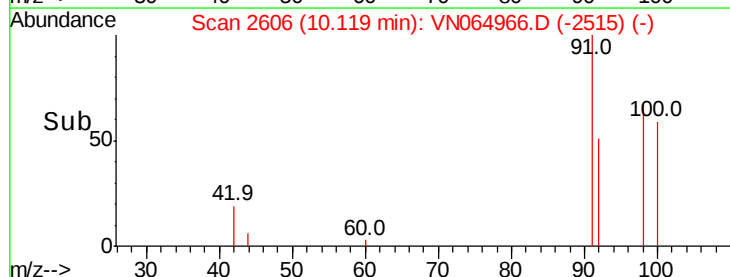
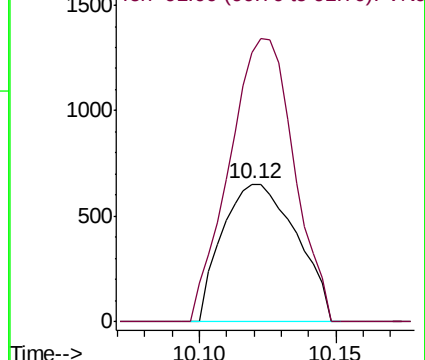
Ion Ratio Lower Upper

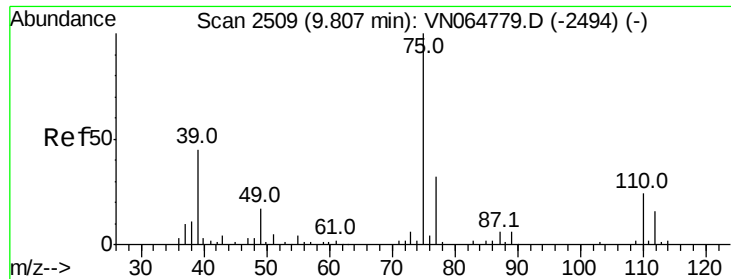
92 100

91 178.1 139.1 208.7



Abundance Ion 92.00 (91.70 to 92.70): VN064779.D (-2592) (-)



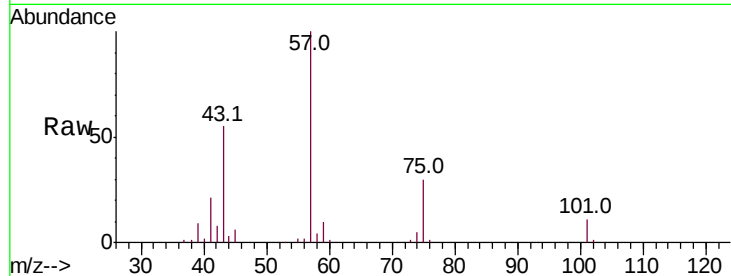


#54

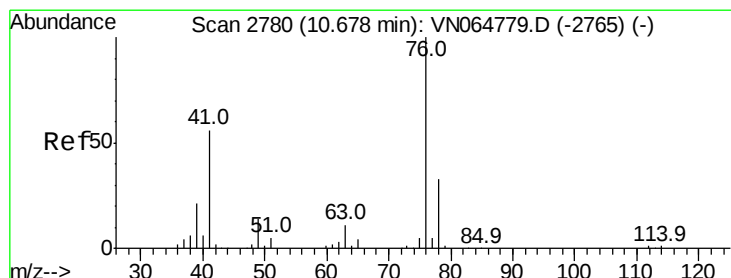
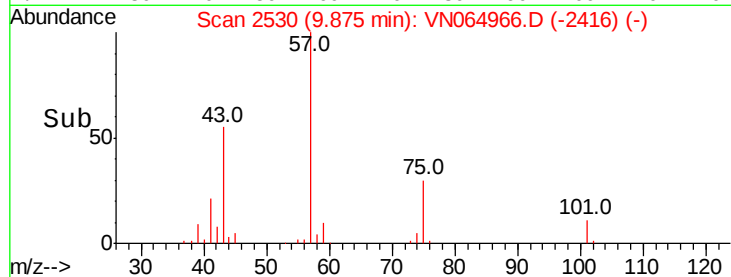
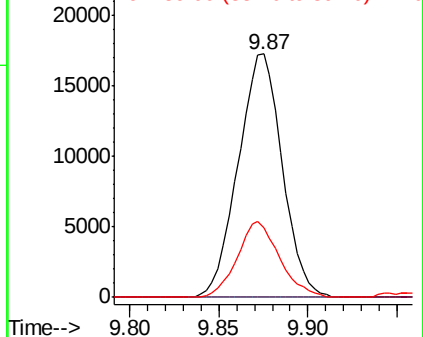
cis-1,3-Dichloropropene
 Concen: 7.810 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064966.D
 Acq: 8 Dec 2020 13:49

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133456ZHE#03

Tot Ion: 75 Resp: 29621
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 28.5 35.6 53.4#



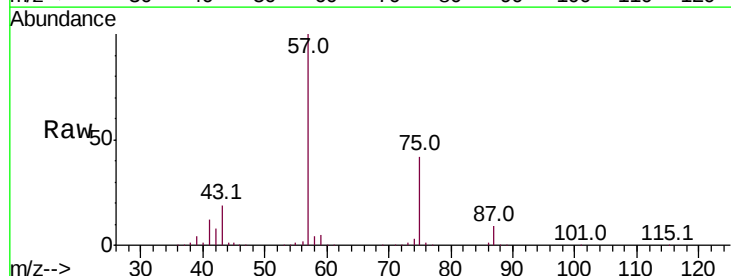
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



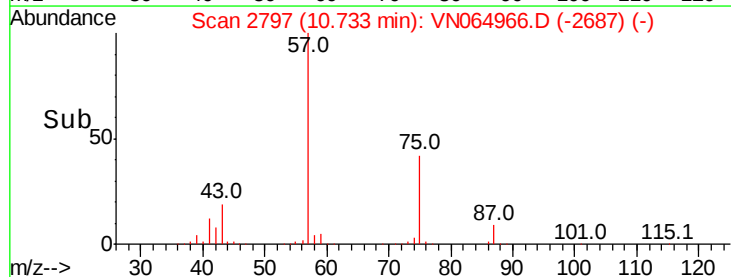
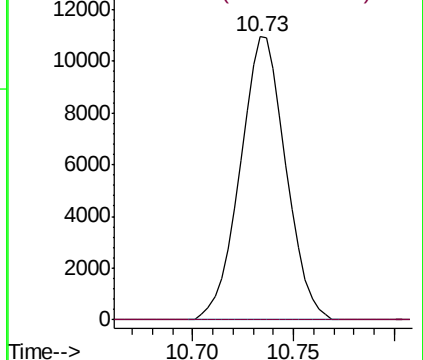
#57

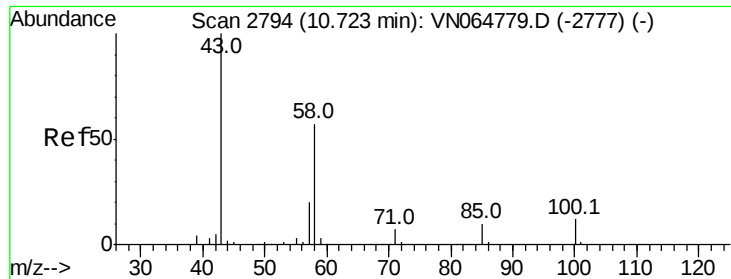
1,3-Dichloropropane
 Concen: 4.541 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064966.D
 Acq: 8 Dec 2020 13:49

Tgt Ion: 76 Resp: 17313
 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





#59

2-Hexanone

Concen: 113.055 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

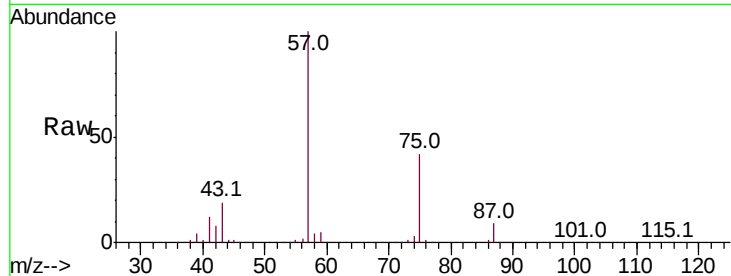
PB133456ZHE#03

Tot Ion: 43 Resp: 225497

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

10.73

150000

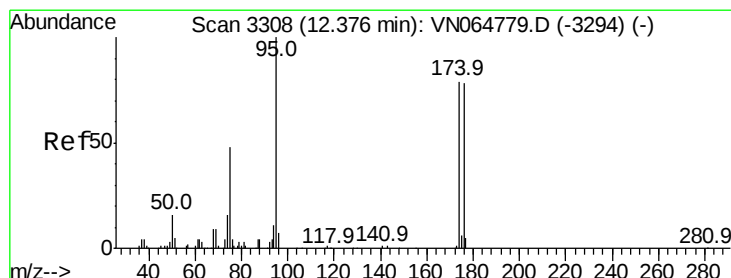
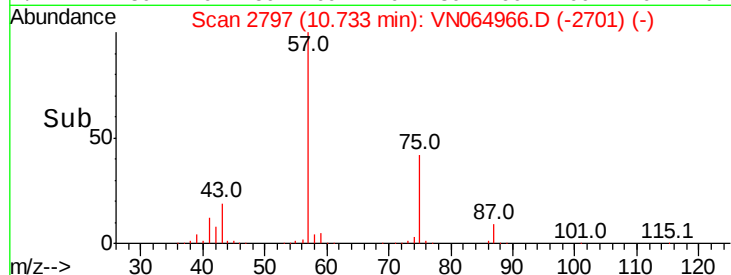
100000

50000

0

Time-->

10.70 10.75 10.80



#62

4-Bromofluorobenzene

Concen: 55.800 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

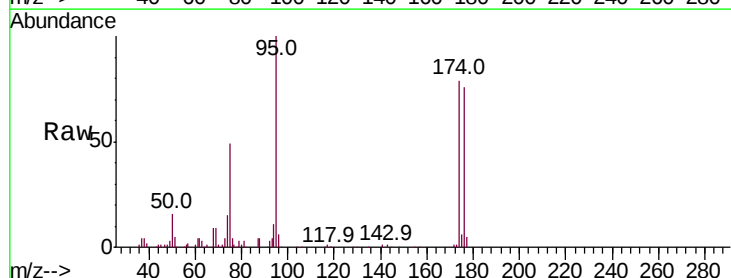
Tgt Ion: 95 Resp: 156879

Ion Ratio Lower Upper

95 100

174 82.7 0.0 160.4

176 78.4 0.0 158.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

120000

100000

80000

60000

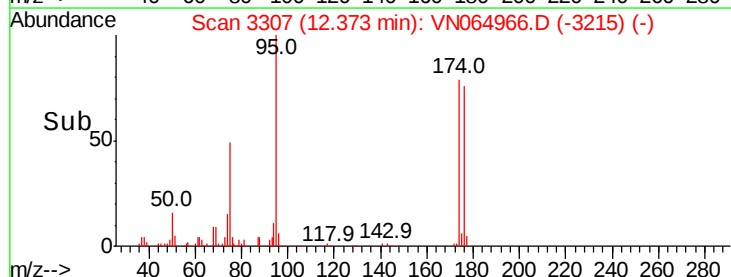
40000

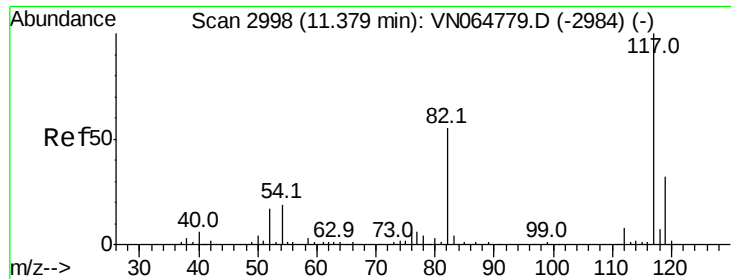
20000

0

Time-->

12.30 12.40





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2997

Delta R.T. -0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#03

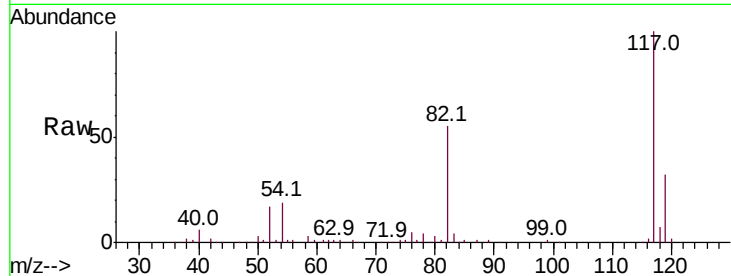
Tot Ion:117 Resp: 343600

Ion Ratio Lower Upper

117 100

82 55.0 44.2 66.2

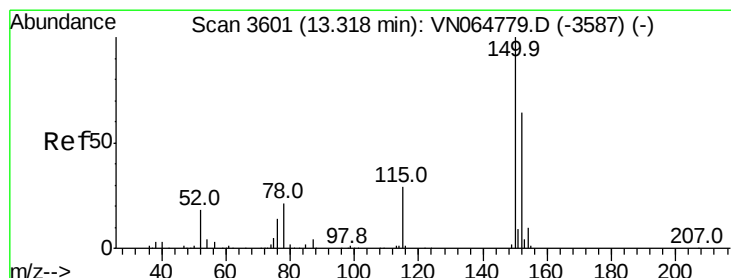
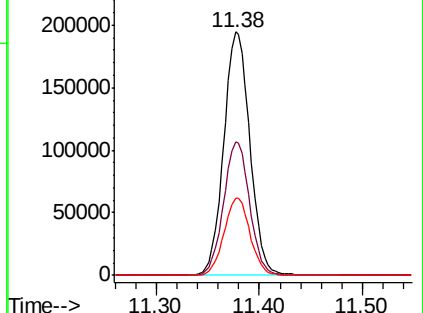
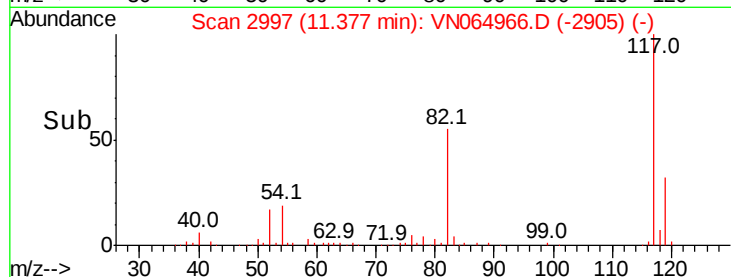
119 31.8 25.8 38.6



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# 3601

Delta R.T. 0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

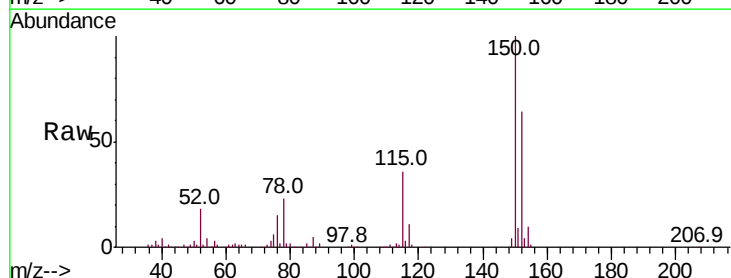
Tgt Ion:152 Resp: 146843

Ion Ratio Lower Upper

152 100

115 58.1 29.7 89.1

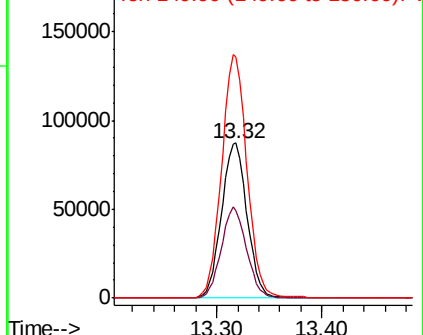
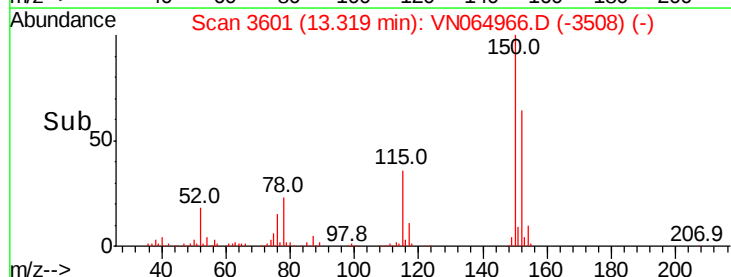
150 155.2 0.0 350.6

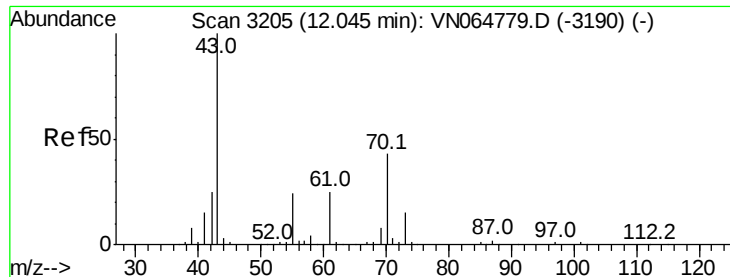


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.751 ug/l

RT: 11.85 min Scan# 3145

Delta R.T. -0.19 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

PB133456ZHE#03

Tot Ion: 43 Resp: 11057

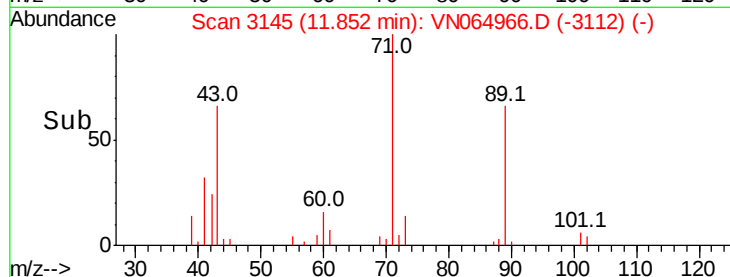
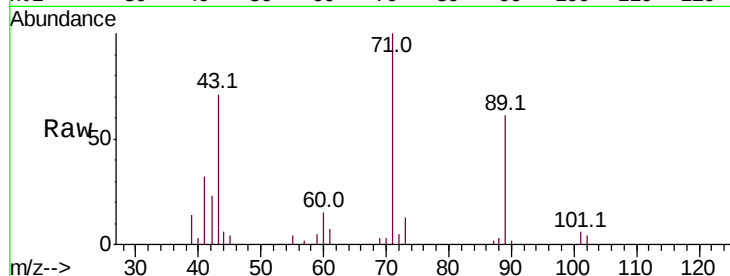
Ion Ratio Lower Upper

43 100

70 3.4 34.5 51.7#

55 6.1 20.4 30.6#

61 9.7 20.0 30.0#

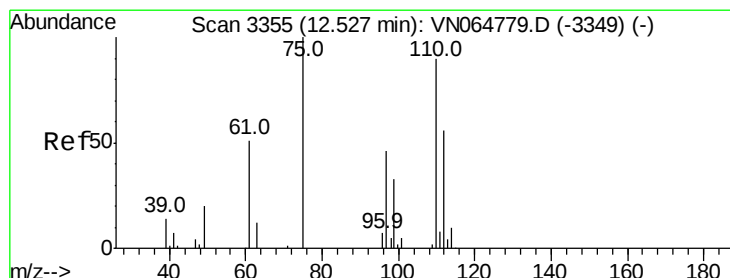
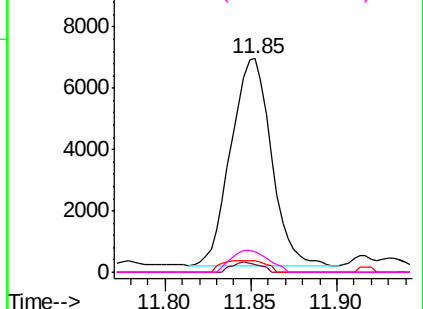


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 23.736 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064966.D

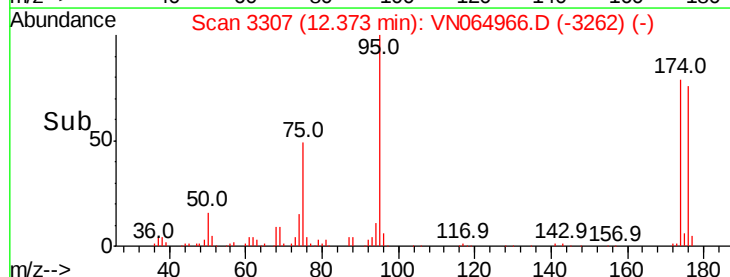
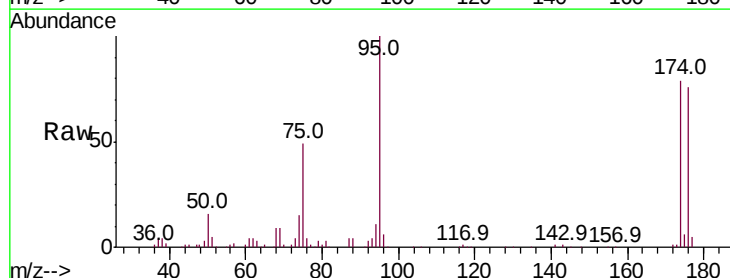
Acq: 8 Dec 2020 13:49

Tgt Ion: 75 Resp: 75061

Ion Ratio Lower Upper

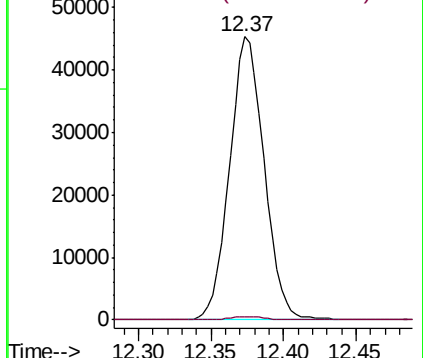
75 100

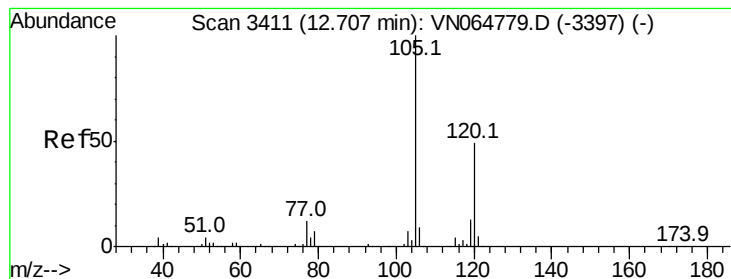
77 1.2 0.0 0.0#



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: 0.208 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Instrument :

MSVOA_N

ClientSampleId :

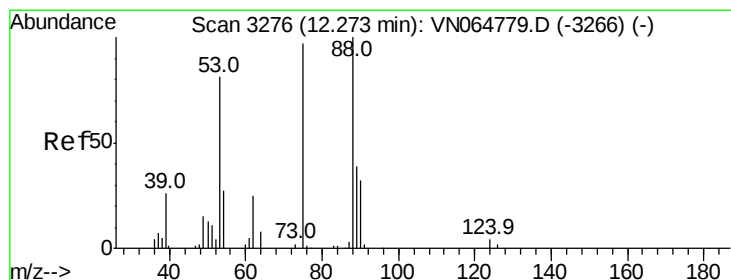
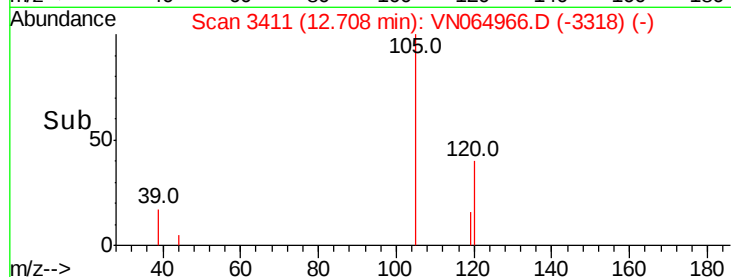
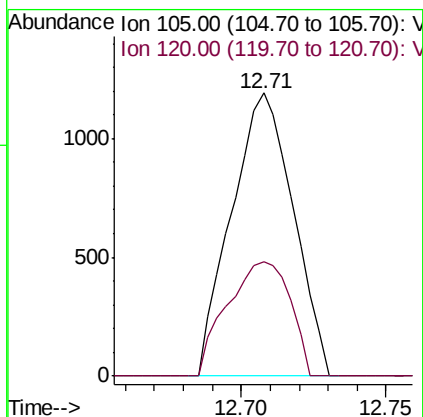
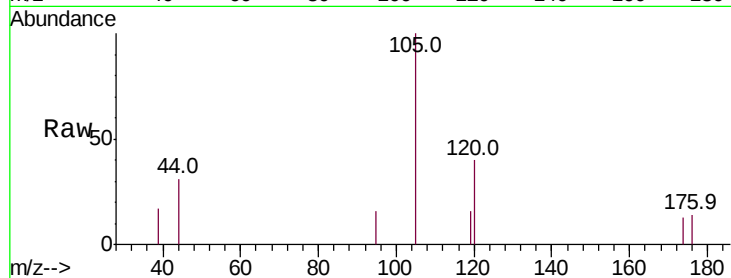
PB133456ZHE#03

Tot Ion:105 Resp: 1764

Ion Ratio Lower Upper

105 100

120 41.2 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 65.053 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN064966.D

Acq: 8 Dec 2020 13:49

Tgt Ion: 75 Resp: 75061

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

