

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065032.D
 Acq On : 9 Dec 2020 19:51
 Operator : JC/MD
 Sample : PB133472ZHE#13
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#13

Quant Time: Dec 10 04:10:07 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	7.63	168	164867	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	323253	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	339606	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	142761	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	108025	56.36	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	112.72%
35) Dibromofluoromethane	7.55	113	99622	51.50	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.00%
50) Toluene-d8	10.06	98	403718	51.08	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	102.16%
62) 4-Bromofluorobenzene	12.38	95	148516	52.51	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	105.02%

Target Compounds

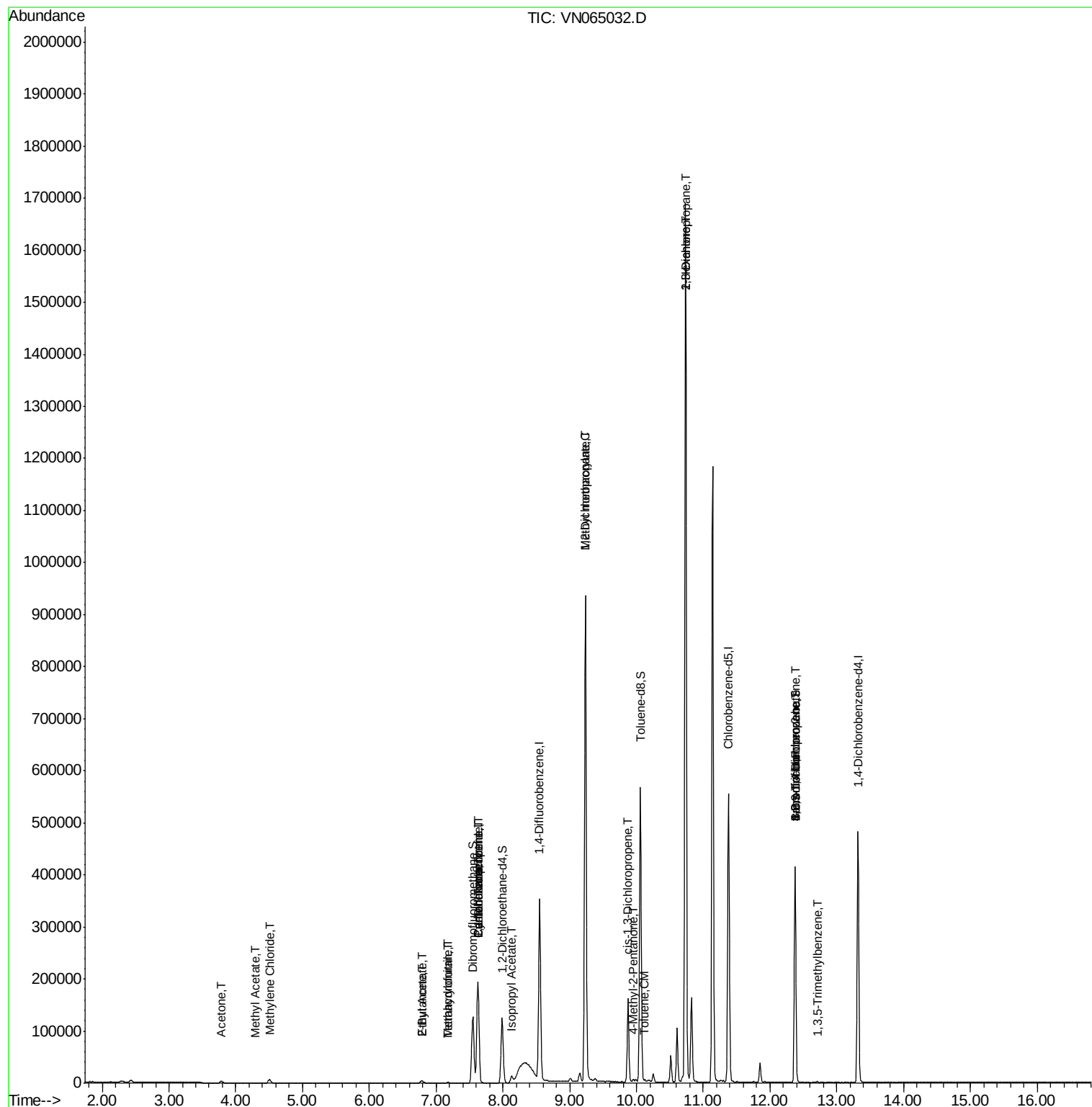
					Qvalue	
16) Acetone	3.77	43	2160	3.428	ug/l	96
18) Methyl Acetate	4.29	43	987	0.521	ug/l #	50
20) Methylene Chloride	4.50	84	2556	1.295	ug/l #	80
25) 2-Butanone	6.79	43	1516	1.484	ug/l	99
29) Tetrahydrofuran	7.17	42	940	1.333	ug/l #	56
31) Cyclohexane	7.63	56	2859	1.070	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11083	3.699	ug/l #	50
37) Ethyl Acetate	6.79	43	1516	0.525	ug/l #	66
38) Carbon Tetrachloride	7.63	117	15870	5.091	ug/l #	16
41) Methacrylonitrile	7.18	41	571	0.429	ug/l #	20
43) Isopropyl Acetate	8.13	43	17316	3.729	ug/l	93
45) 1,2-Dichloropropane	9.23	63	1288	0.542	ug/l #	43
48) Methyl methacrylate	9.23	41	83481	37.618	ug/l #	38
51) 4-Methyl-2-Pentanone	9.96	43	3796	1.361	ug/l	89
52) Toluene	10.13	92	1515	0.268	ug/l	99
54) cis-1,3-Dichloropropene	9.87	75	28721	7.527	ug/l #	63
57) 1,3-Dichloropropane	10.74	76	18477	4.817	ug/l #	42
59) 2-Hexanone	10.74	43	228968	114.108	ug/l #	51
71) Bromoform	12.38	173	1299	0.607	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	71289	23.187	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	1898	0.230	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.37	75	71289	63.551	ug/l #	15

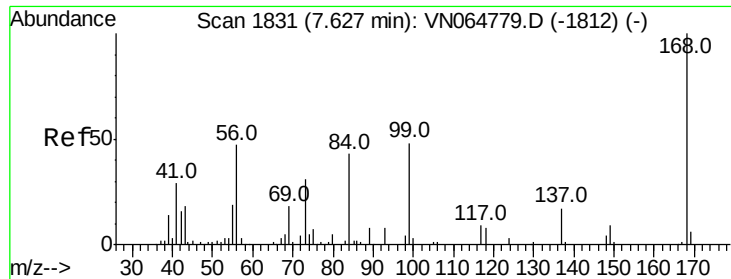
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112320W.M
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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

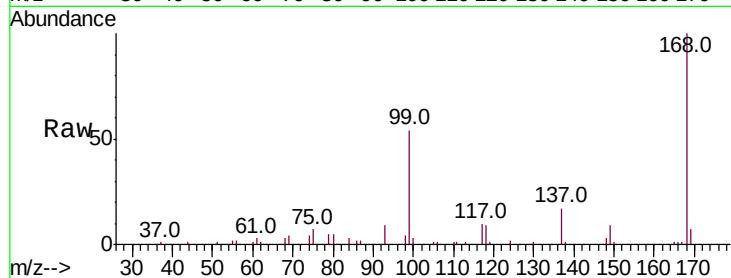
PB133472ZHE#13

Tot Ion:168 Resp: 164867

Ion Ratio Lower Upper

168 100

99 53.6 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.63

60000

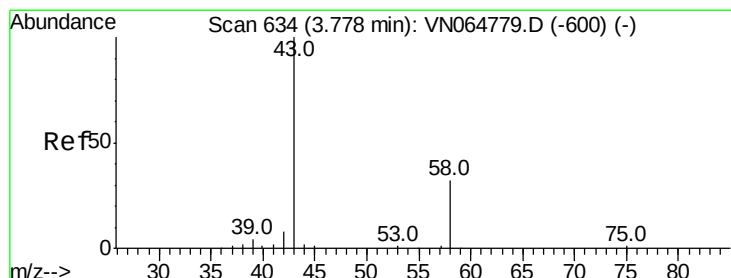
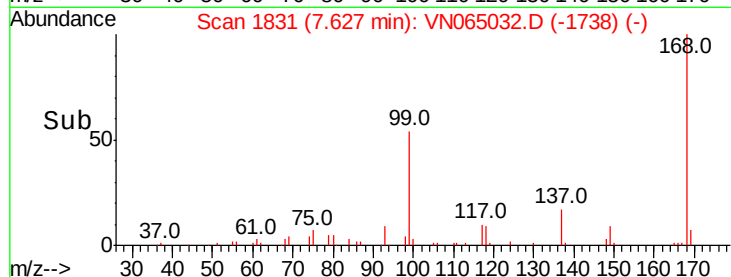
40000

20000

0

7.50 7.60 7.70

Time-->



#16

Acetone

Concen: 3.428 ug/l

RT: 3.77 min Scan# 632

Delta R.T. -0.01 min

Lab File: VN065032.D

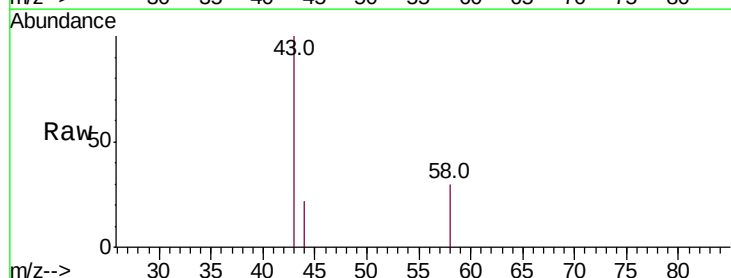
Acq: 9 Dec 2020 19:51

Tgt Ion: 43 Resp: 2160

Ion Ratio Lower Upper

43 100

58 29.7 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.77

2000

1500

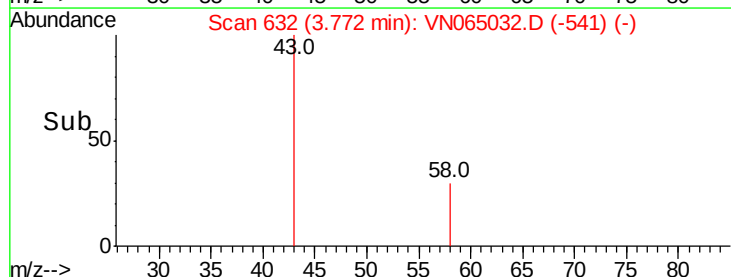
1000

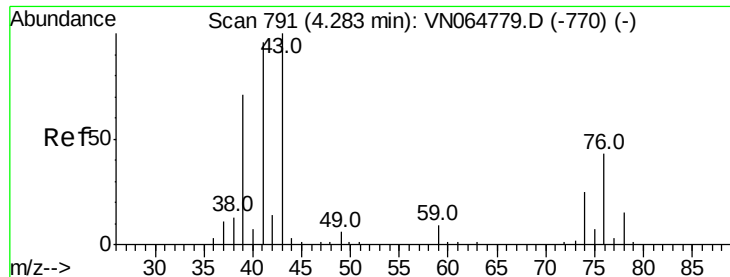
500

0

3.72 3.74 3.76 3.78

Time-->





#18

Methyl Acetate

Concen: 0.521 ug/l

RT: 4.29 min Scan# 792

Delta R.T. 0.00 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

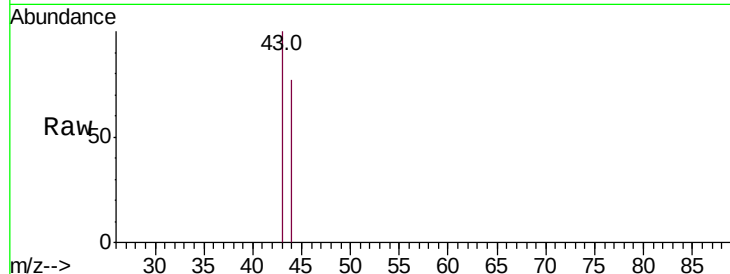
PB133472ZHE#13

Tot Ion: 43 Resp: 987

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.29

400

300

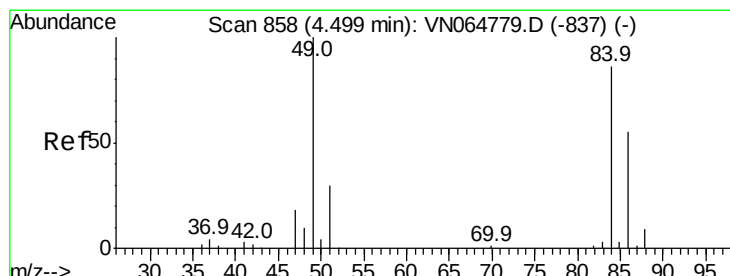
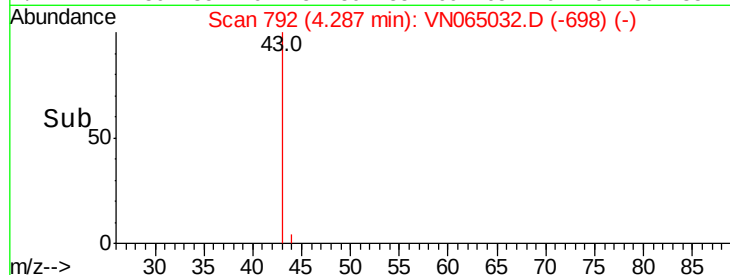
200

100

0

4.25 4.30

Time-->



#20

Methylene Chloride

Concen: 1.295 ug/l

RT: 4.50 min Scan# 858

Delta R.T. 0.00 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Tgt Ion: 84 Resp: 2556

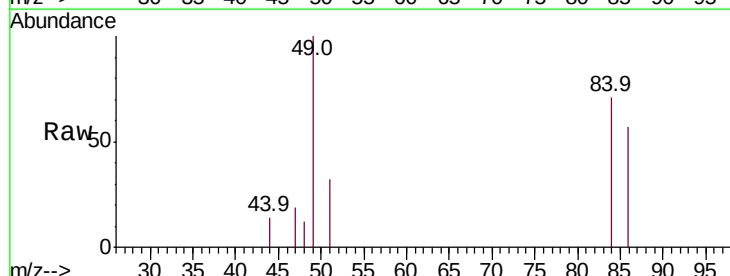
Ion Ratio Lower Upper

84 100

49 140.6 93.4 140.0#

51 45.3 28.2 42.4#

86 79.6 51.7 77.5#



Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0

3000

2500

2000

1500

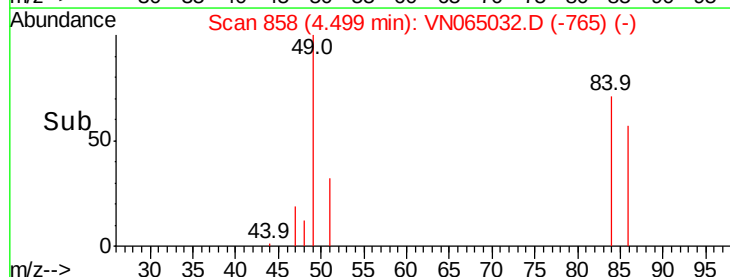
1000

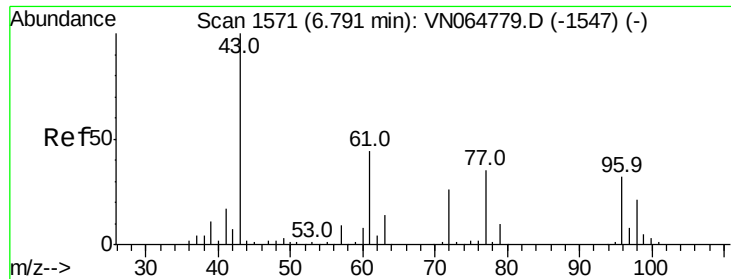
500

0

4.45 4.50

Time-->

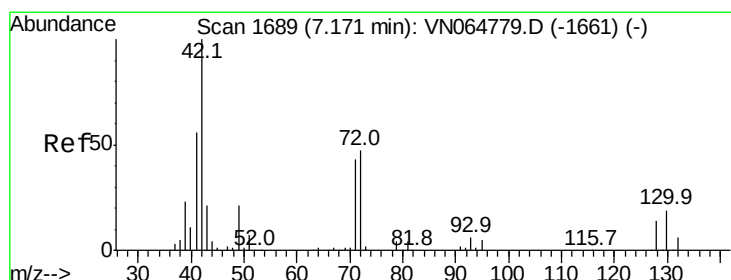
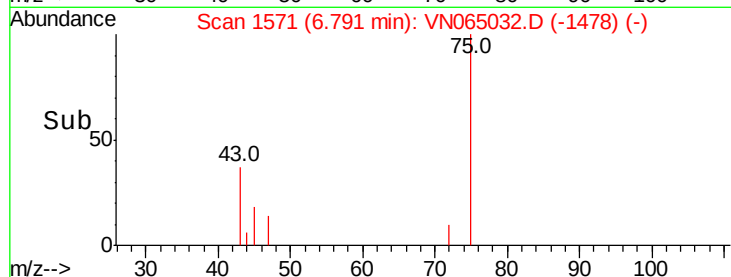
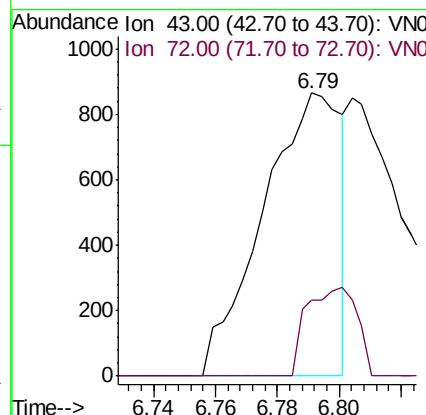
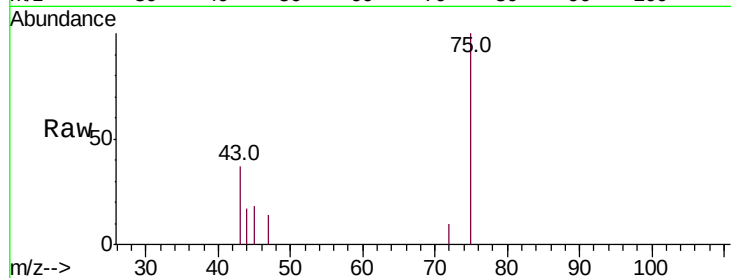




#25
2-Butanone
Concen: 1.484 ug/l
RT: 6.79 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

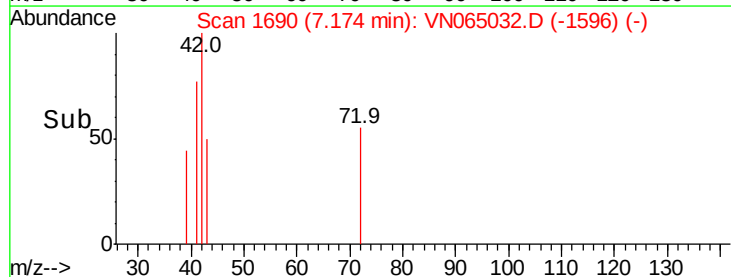
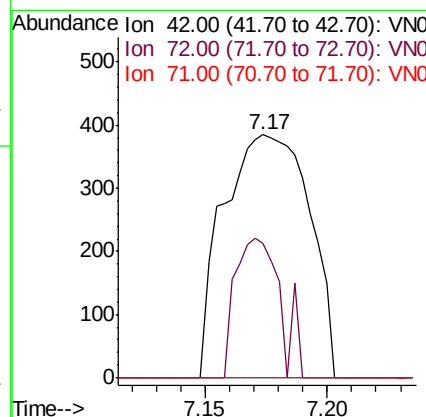
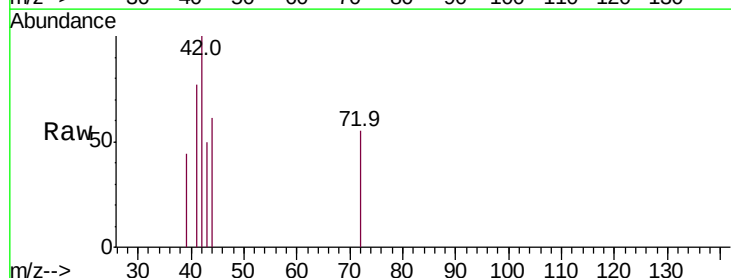
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#13

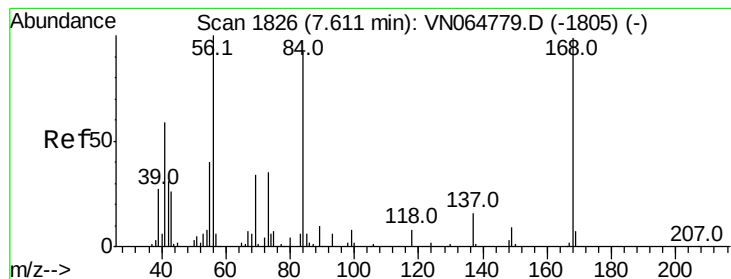
Tot Ion: 43 Resp: 1516
Ion Ratio Lower Upper
43 100
72 26.8 21.0 31.6



#29
Tetrahydrofuran
Concen: 1.333 ug/l
RT: 7.17 min Scan# 1690
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Tgt Ion: 42 Resp: 940
Ion Ratio Lower Upper
42 100
72 30.1 36.6 54.8#
71 0.0 33.6 50.4#





#31

Cyclohexane

Concen: 1.070 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.02 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#13

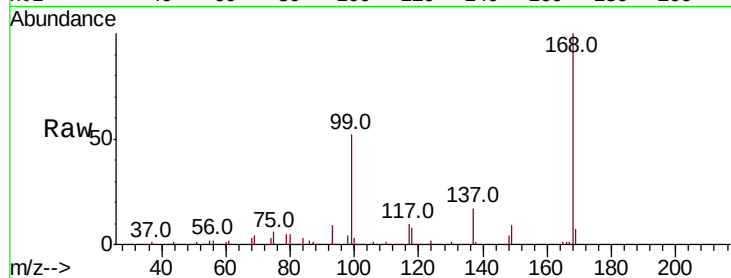
Tot Ion: 56 Resp: 2859

Ion Ratio Lower Upper

56 100

69 194.5 27.5 41.3#

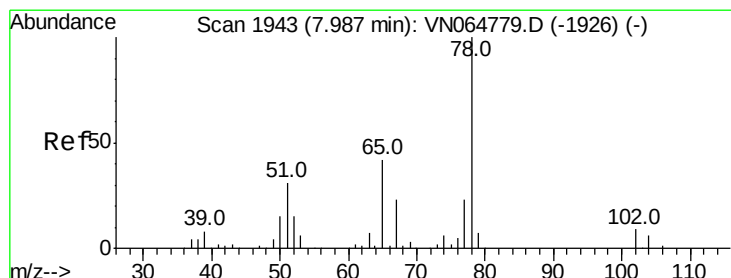
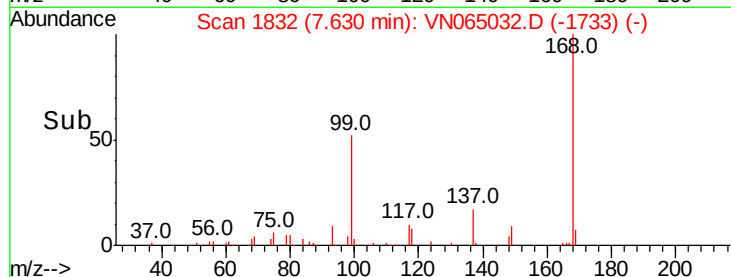
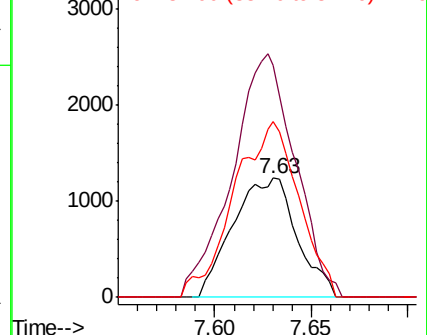
84 147.7 73.9 110.9#



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: 56.360 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065032.D

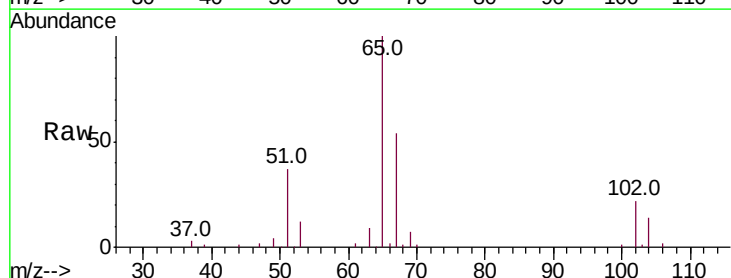
Acq: 9 Dec 2020 19:51

Tgt Ion: 65 Resp: 108025

Ion Ratio Lower Upper

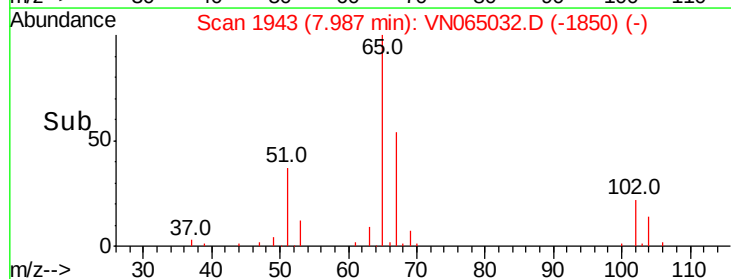
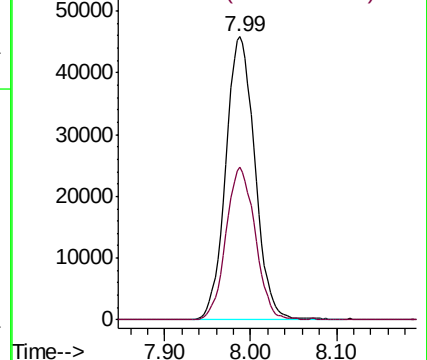
65 100

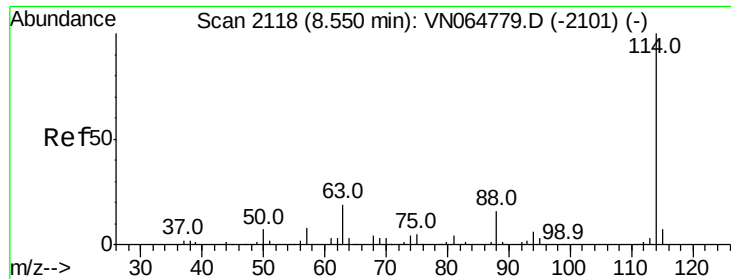
67 54.1 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

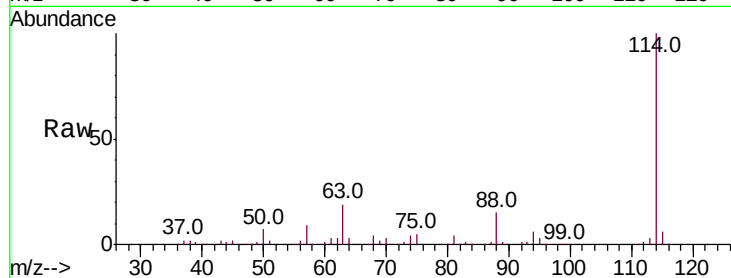




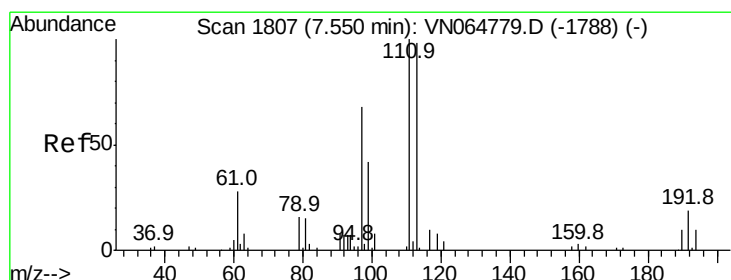
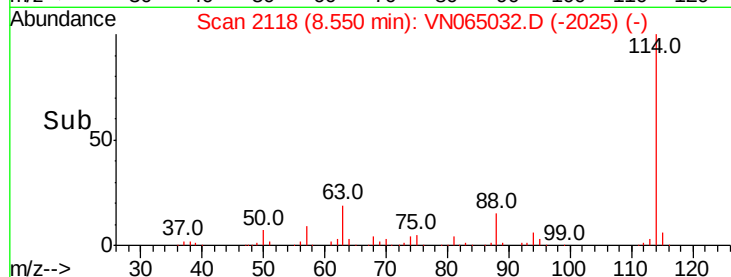
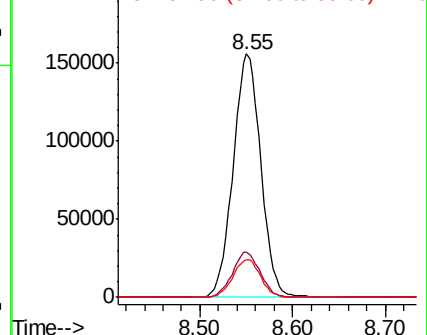
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065032.D
 Acq: 9 Dec 2020 19:51

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#13

Tot Ion:114 Resp: 323253
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 38.6
 88 15.5 0.0 32.6

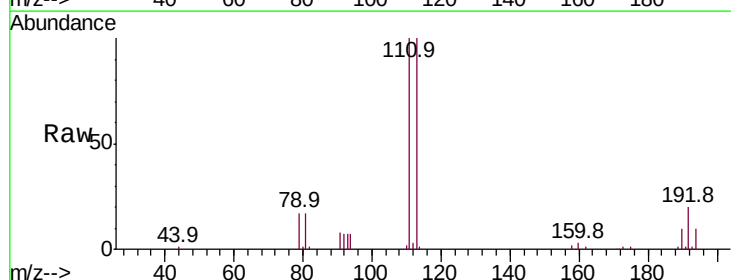


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

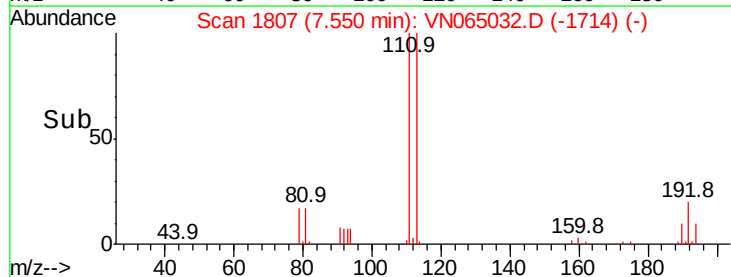
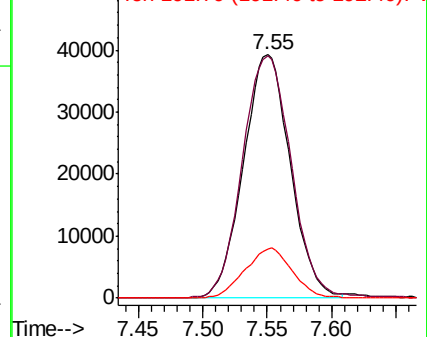


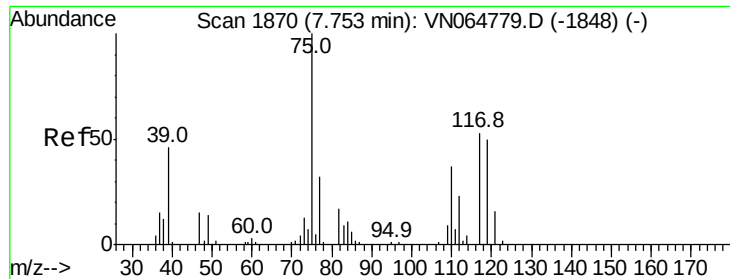
#35
 Dibromofluoromethane
 Concen: 51.504 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065032.D
 Acq: 9 Dec 2020 19:51

Tgt Ion:113 Resp: 99622
 Ion Ratio Lower Upper
 113 100
 111 103.9 81.6 122.4
 192 20.7 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: 3.699 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.13 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#13

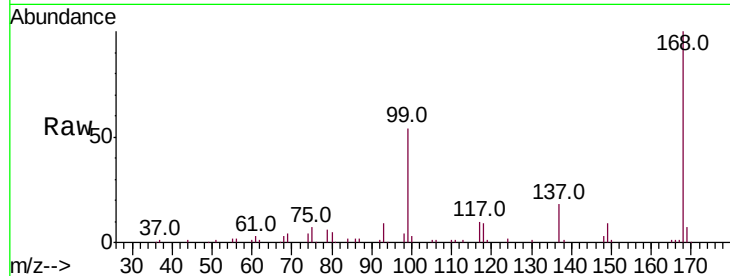
Tot Ion: 75 Resp: 11083

Ion Ratio Lower Upper

75 100

110 9.6 17.8 53.3#

77 0.0 25.0 37.4#



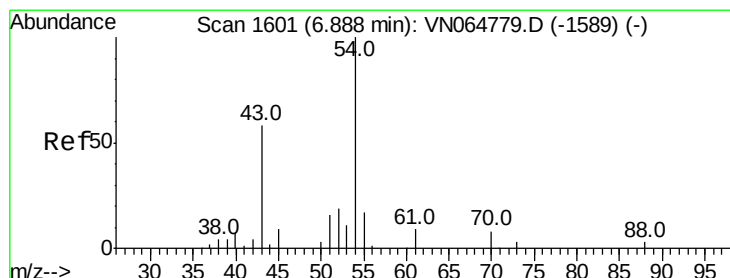
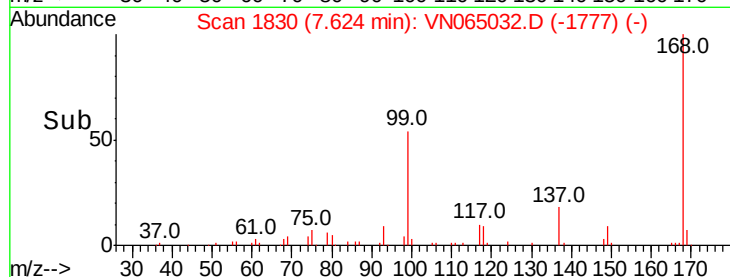
Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)

Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)

7.62

Time-->



#37

Ethyl Acetate

Concen: 0.525 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. -0.10 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

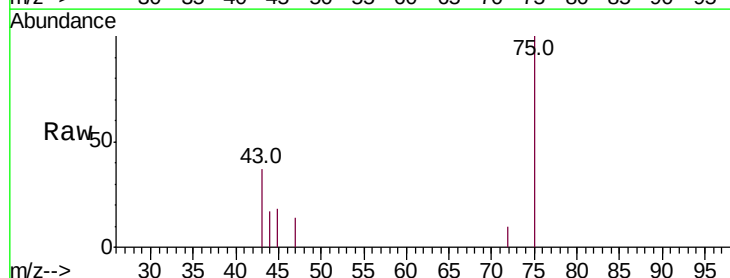
Tgt Ion: 43 Resp: 1516

Ion Ratio Lower Upper

43 100

61 0.0 12.8 19.2#

70 0.0 8.8 13.2#



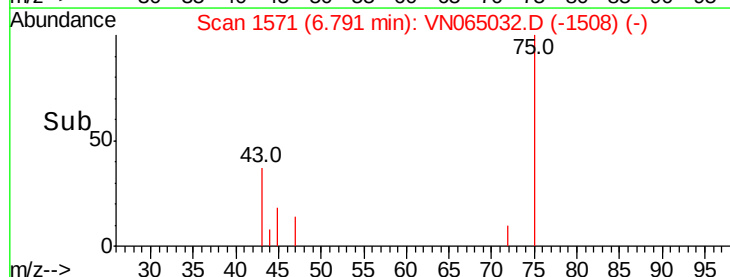
Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1589) (-)

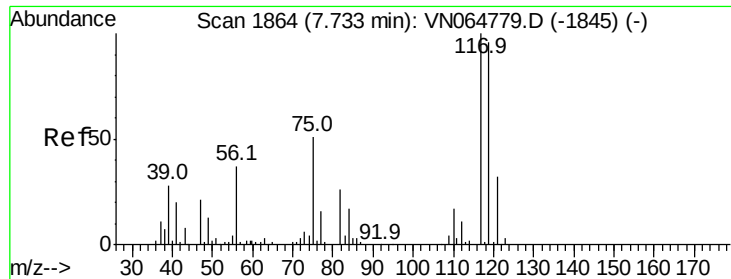
Ion 60.90 (60.60 to 61.60): VN064779.D (-1589) (-)

Ion 70.00 (69.70 to 70.70): VN064779.D (-1589) (-)

6.79

Time-->

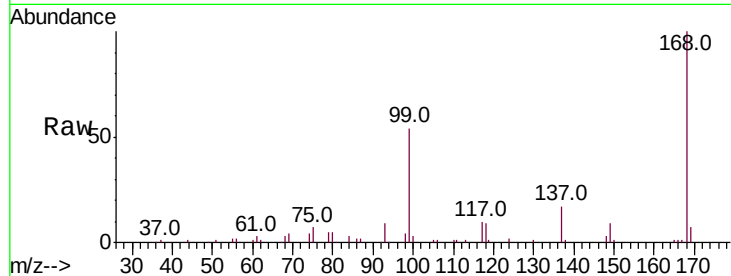




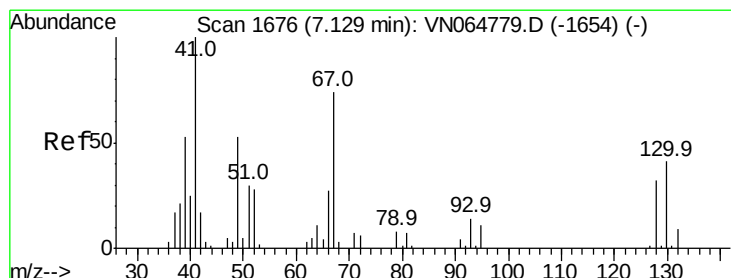
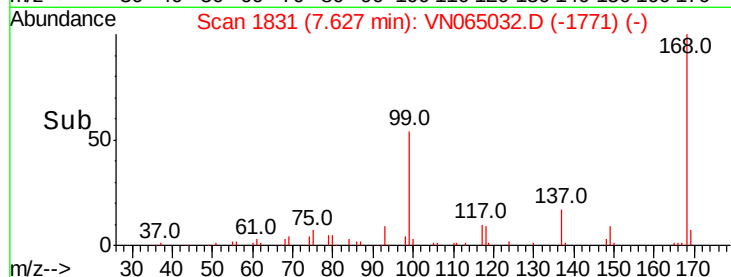
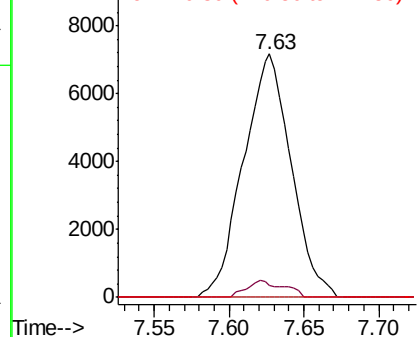
#38
Carbon Tetrachloride
Concen: 5.091 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#13

Tot Ion:117 Resp: 15870
Ion Ratio Lower Upper
117 100
119 4.9 76.7 115.1#
121 0.0 25.4 38.2#

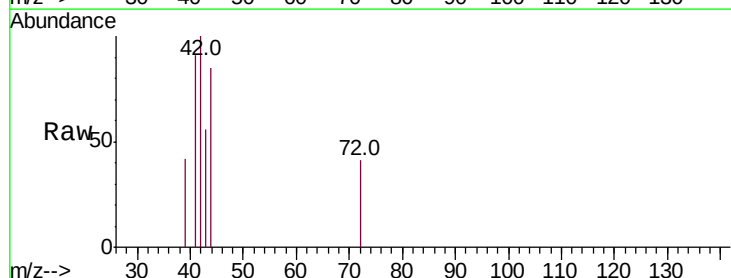


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

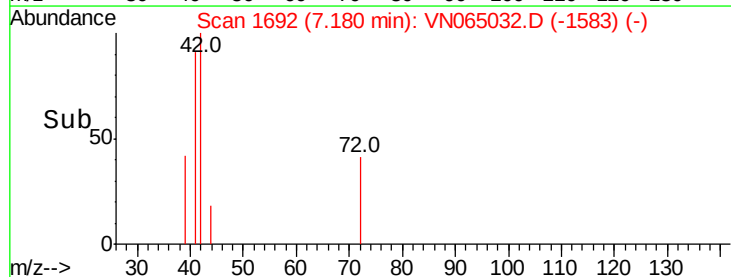
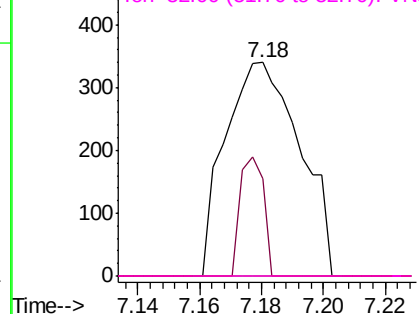


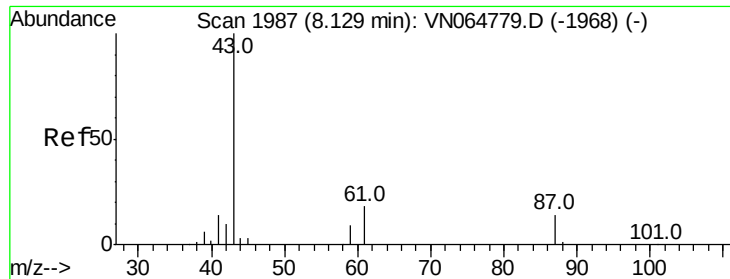
#41
Methacrylonitrile
Concen: 0.429 ug/l
RT: 7.18 min Scan# 1692
Delta R.T. 0.05 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Tgt Ion: 41 Resp: 571
Ion Ratio Lower Upper
41 100
39 17.5 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: 3.729 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#13

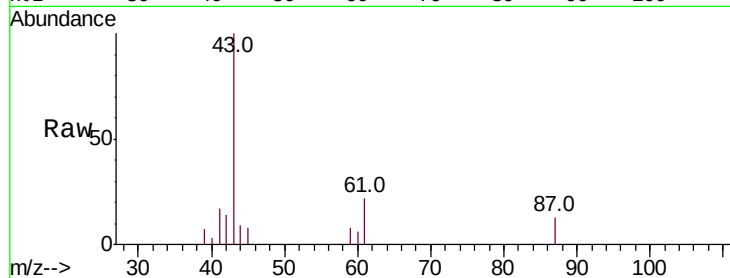
Tot Ion: 43 Resp: 17316

Ion Ratio Lower Upper

43 100

61 18.3 17.2 25.8

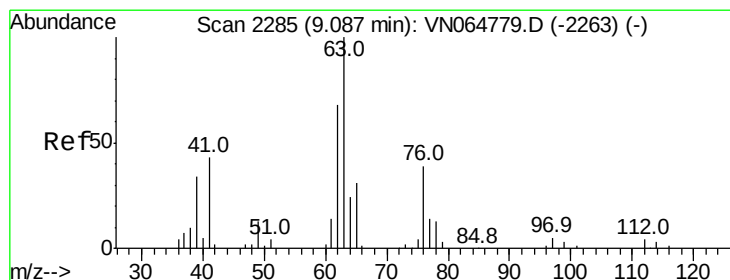
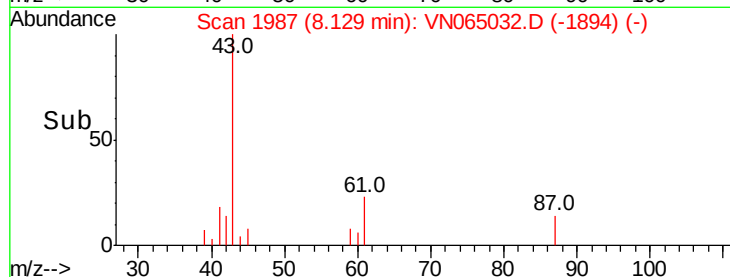
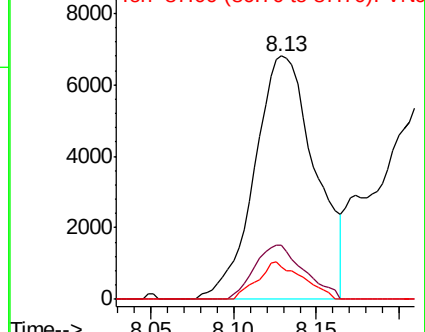
87 11.4 11.4 17.0



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: 0.542 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN065032.D

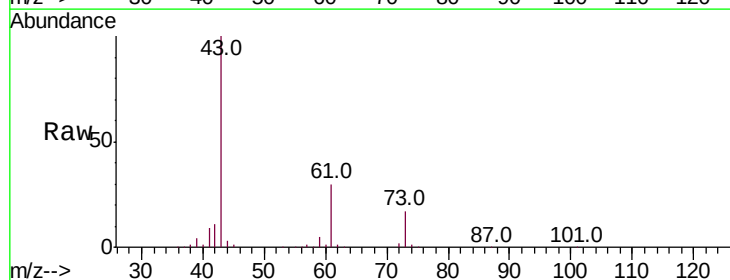
Acq: 9 Dec 2020 19:51

Tgt Ion: 63 Resp: 1288

Ion Ratio Lower Upper

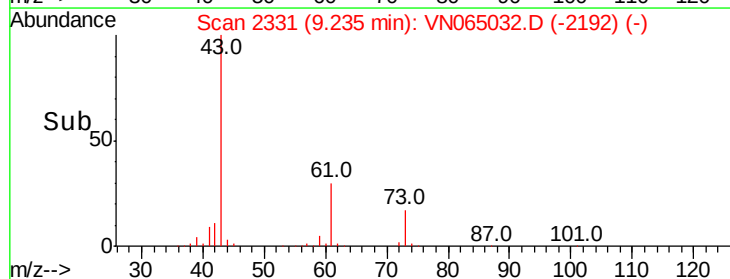
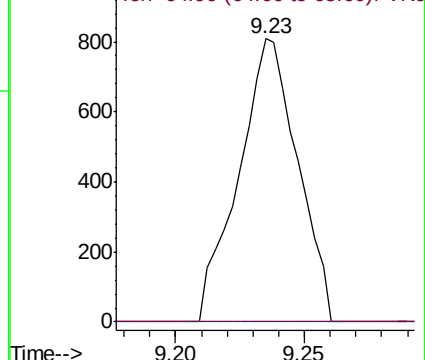
63 100

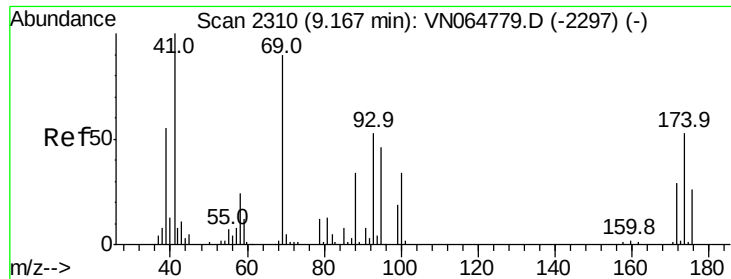
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

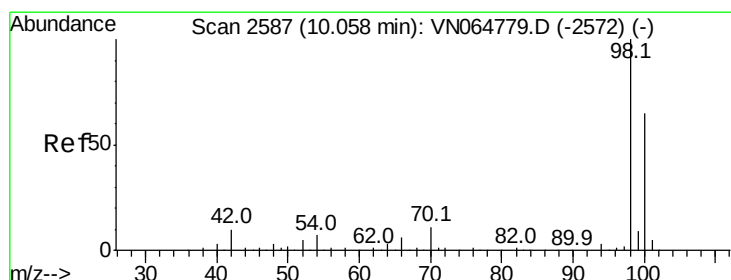
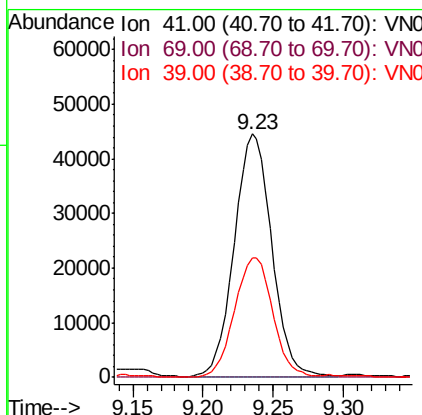
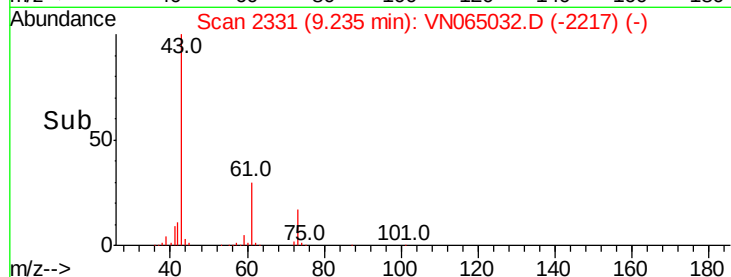
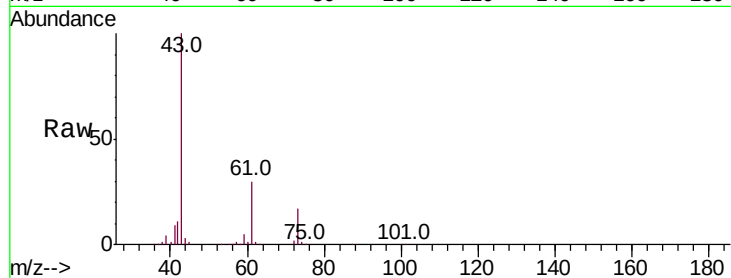




#48
Methyl methacrylate
Concen: 37.618 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

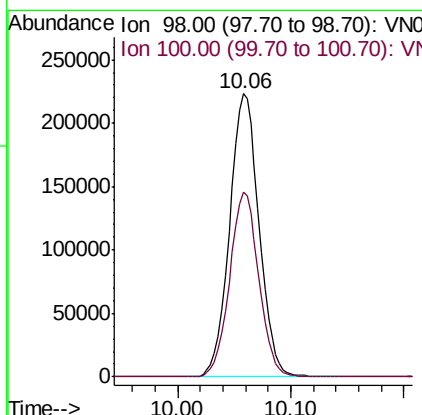
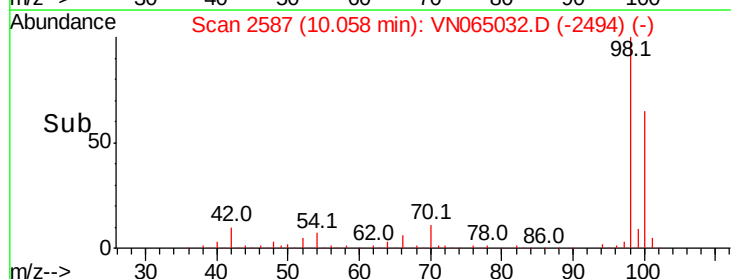
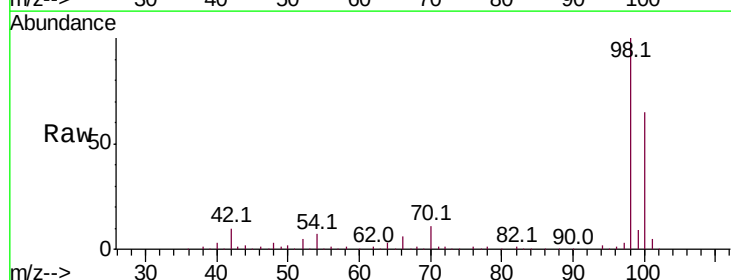
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#13

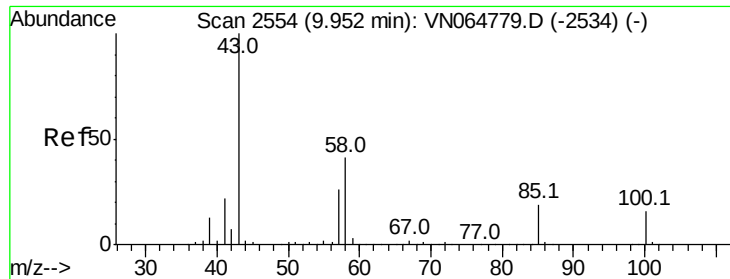
Tot Ion: 41 Resp: 83481
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 49.8 44.1 66.1



#50
Toluene-d8
Concen: 51.083 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Tgt Ion: 98 Resp: 403718
Ion Ratio Lower Upper
98 100
100 64.7 51.7 77.5

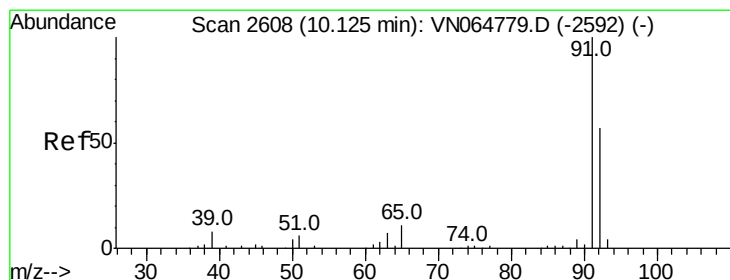
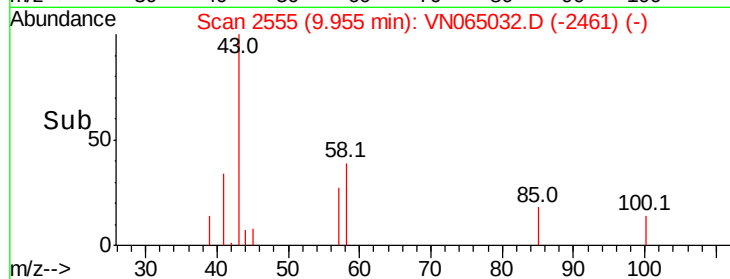
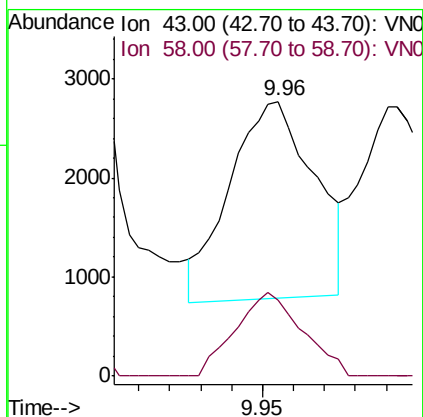
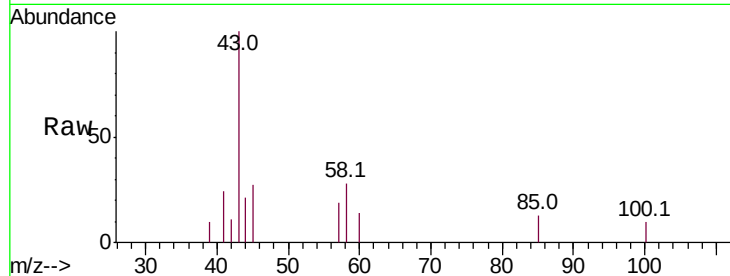




#51
4-Methyl-2-Pentanone
Concen: 1.361 ug/l
RT: 9.96 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

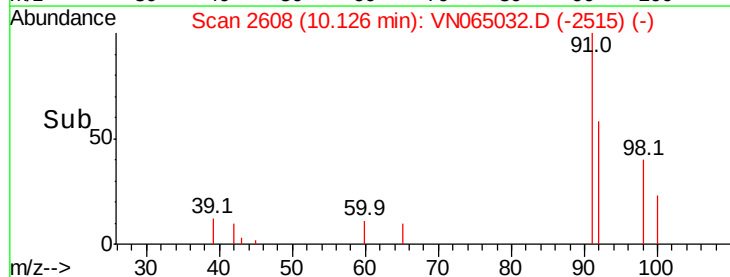
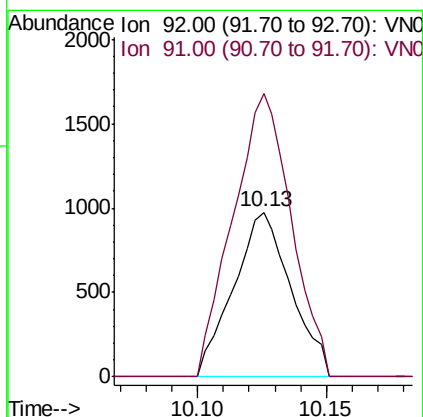
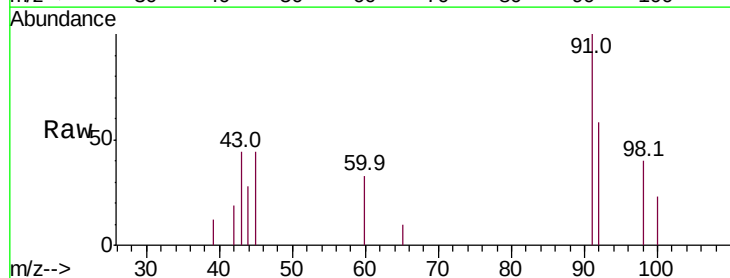
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#13

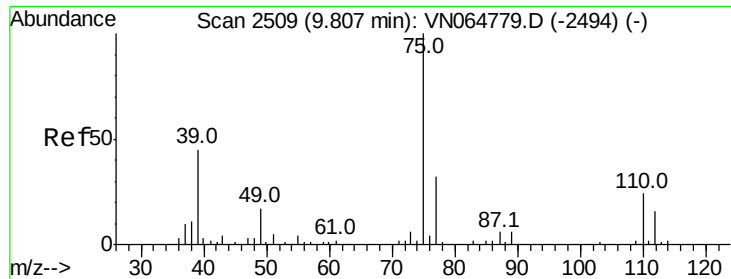
Tot Ion: 43 Resp: 3796
Ion Ratio Lower Upper
43 100
58 33.7 32.4 48.6



#52
Toluene
Concen: 0.268 ug/l
RT: 10.13 min Scan# 2608
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Tgt Ion: 92 Resp: 1515
Ion Ratio Lower Upper
92 100
91 174.9 139.1 208.7





#54

cis-1,3-Dichloropropene

Concen: 7.527 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#13

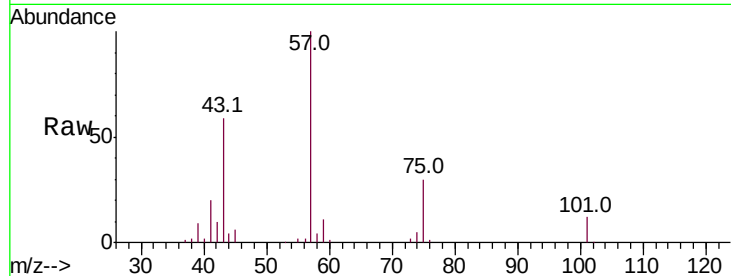
Tot Ion: 75 Resp: 28721

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

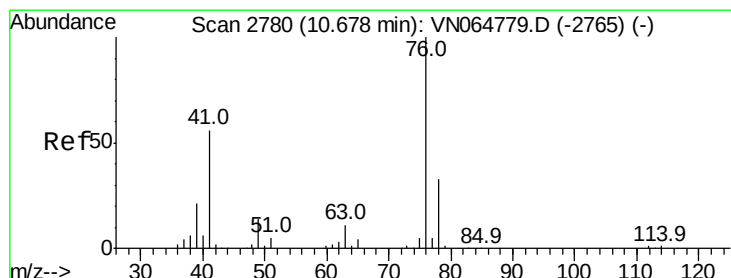
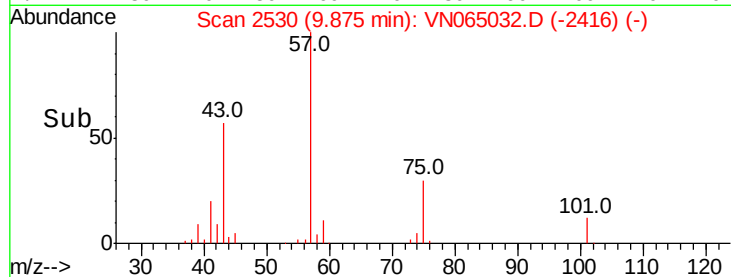
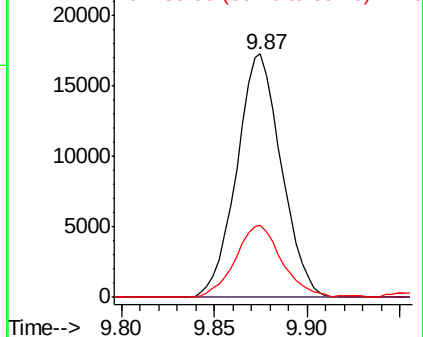
39 29.5 35.6 53.4#



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: 4.817 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065032.D

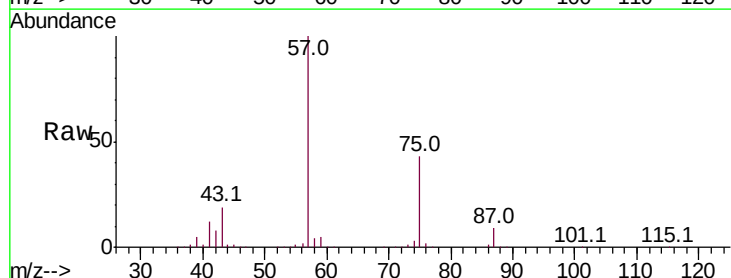
Acq: 9 Dec 2020 19:51

Tgt Ion: 76 Resp: 18477

Ion Ratio Lower Upper

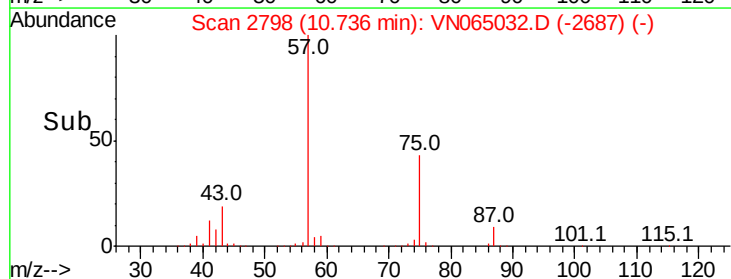
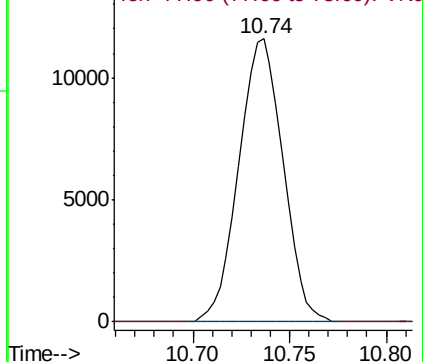
76 100

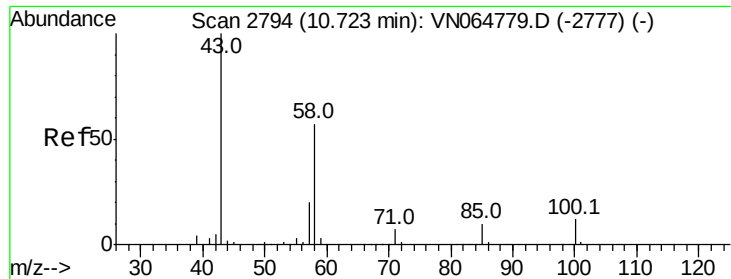
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

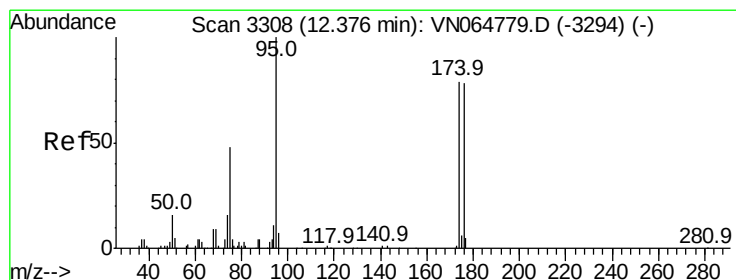
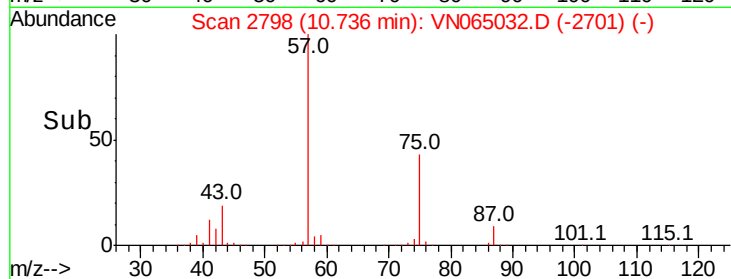
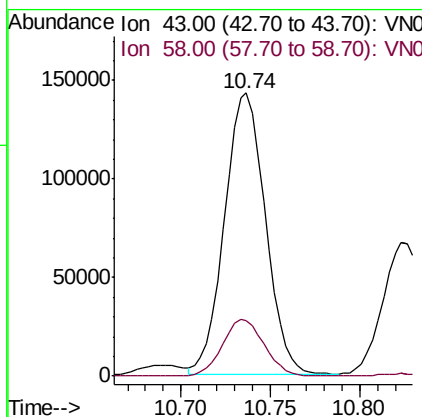
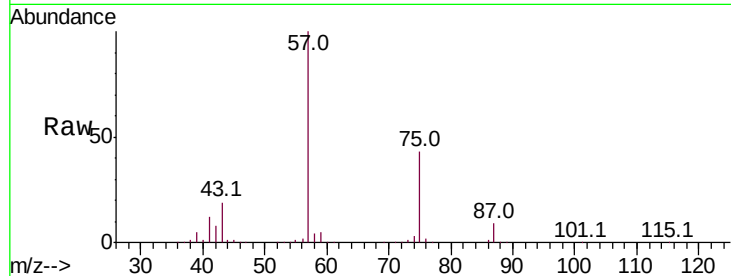




#59
2-Hexanone
Concen: 114.108 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

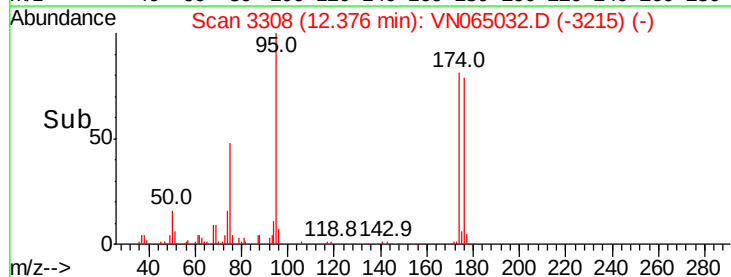
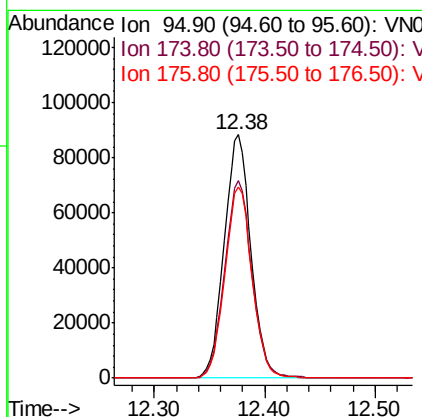
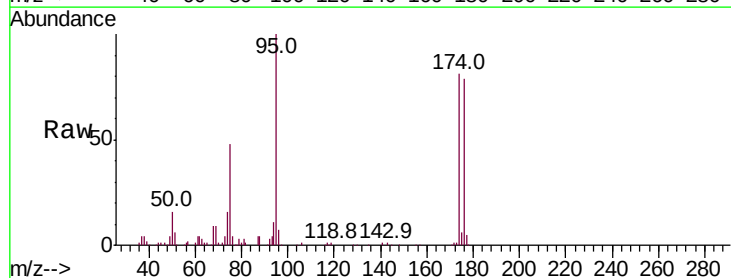
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#13

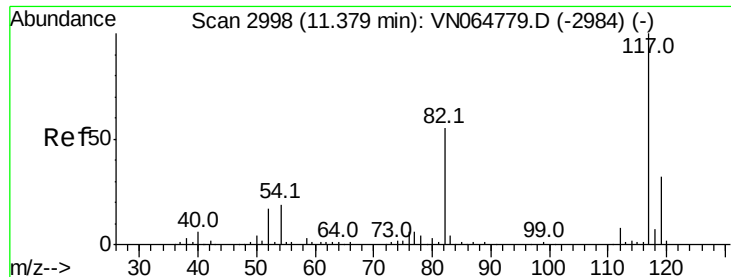
Tot Ion: 43 Resp: 228968
Ion Ratio Lower Upper
43 100
58 20.7 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 52.509 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Tgt Ion: 95 Resp: 148516
Ion Ratio Lower Upper
95 100
174 82.6 0.0 160.4
176 79.7 0.0 158.4

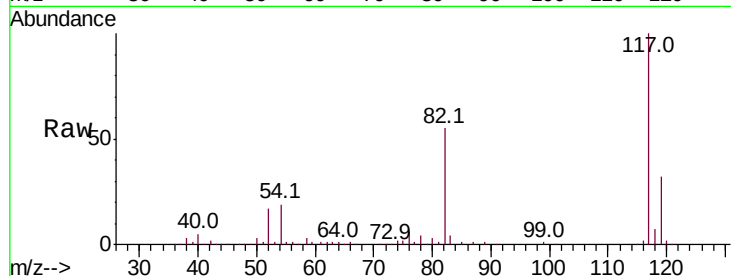




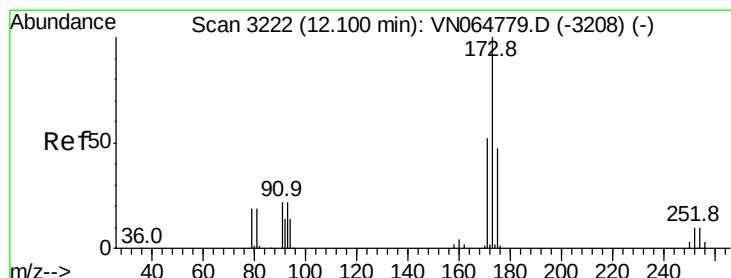
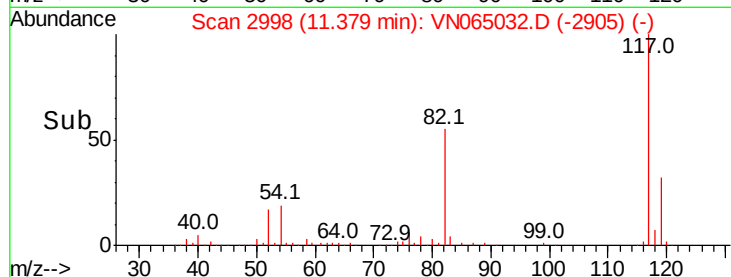
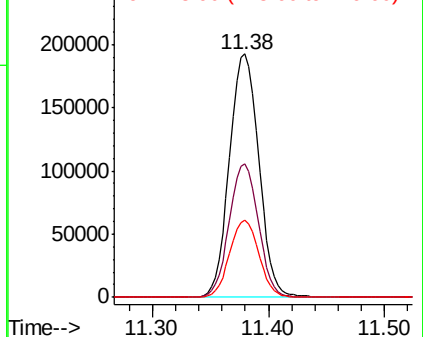
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#13

Tot Ion:117 Resp: 339606
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 31.6 25.8 38.6

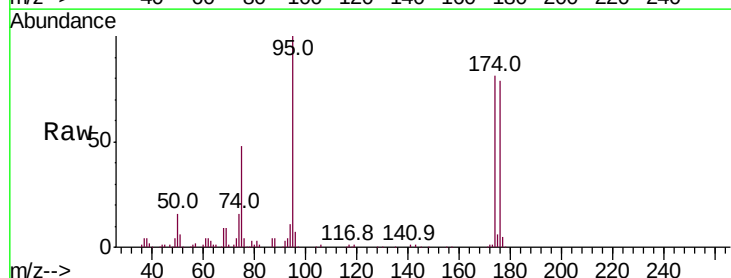


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

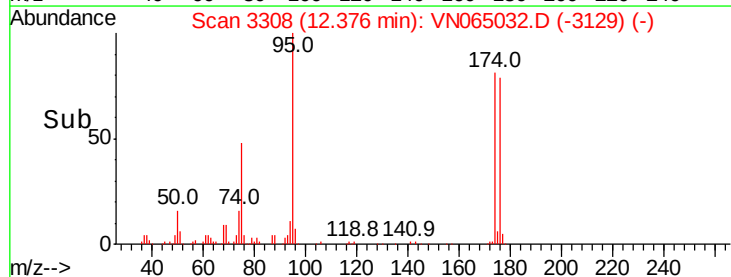
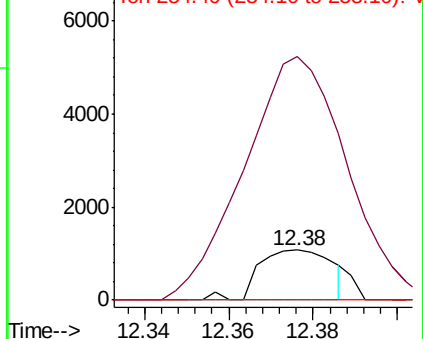


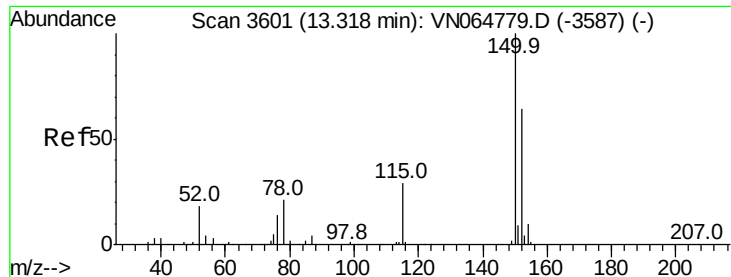
#71
Bromoform
Concen: 0.607 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN065032.D
Acq: 9 Dec 2020 19:51

Tgt Ion:173 Resp: 1299
Ion Ratio Lower Upper
173 100
175 579.7 24.3 72.8#
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#13

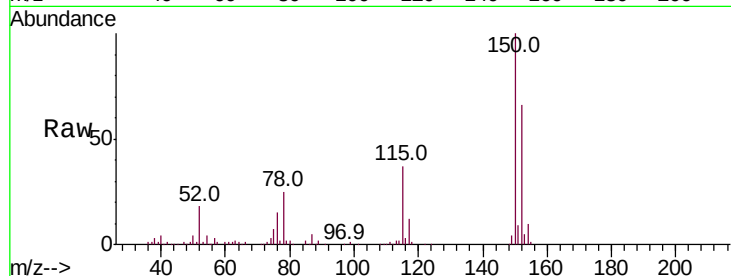
Tot Ion:152 Resp: 142761

Ion Ratio Lower Upper

152 100

115 57.0 29.7 89.1

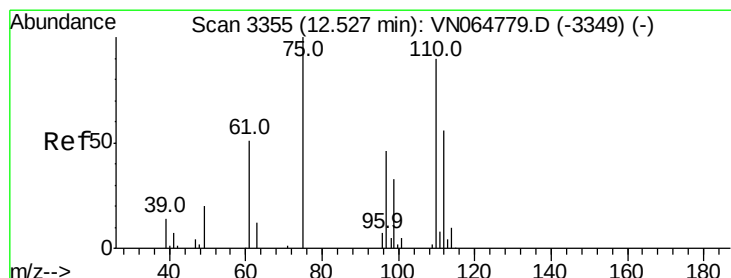
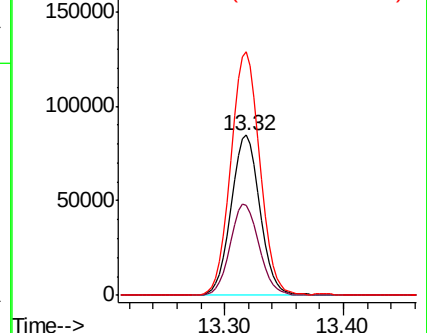
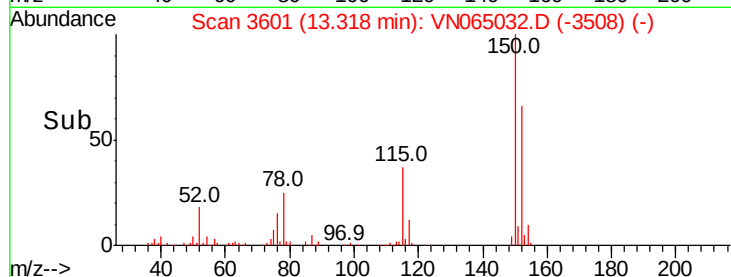
150 152.6 0.0 350.6



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: 23.187 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN065032.D

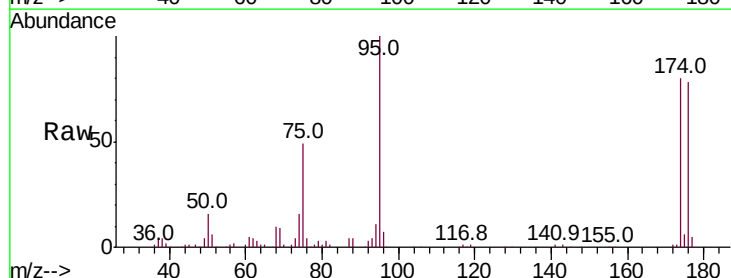
Acq: 9 Dec 2020 19:51

Tgt Ion: 75 Resp: 71289

Ion Ratio Lower Upper

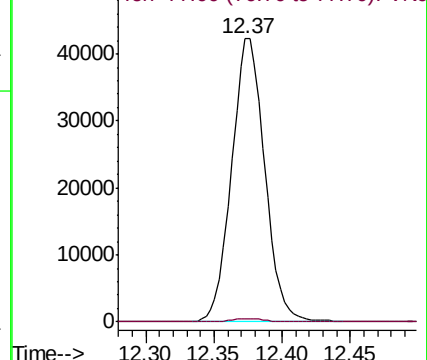
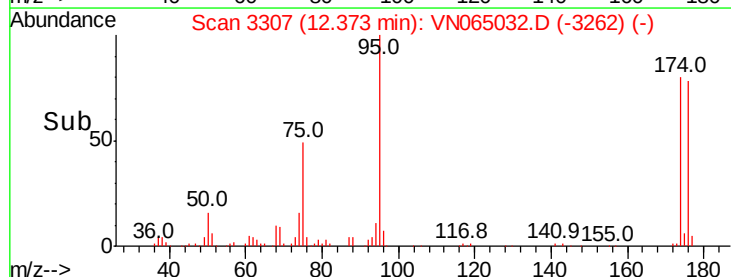
75 100

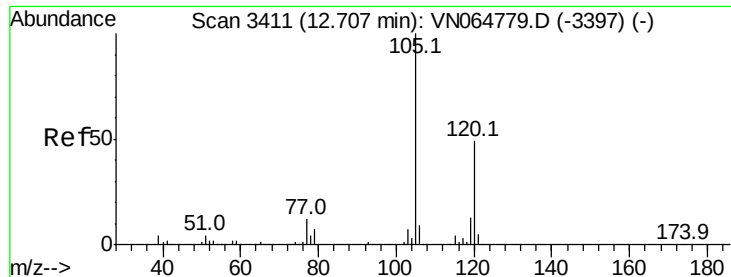
77 0.9 0.0 0.0#



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: 0.230 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Instrument :

MSVOA_N

ClientSampleId :

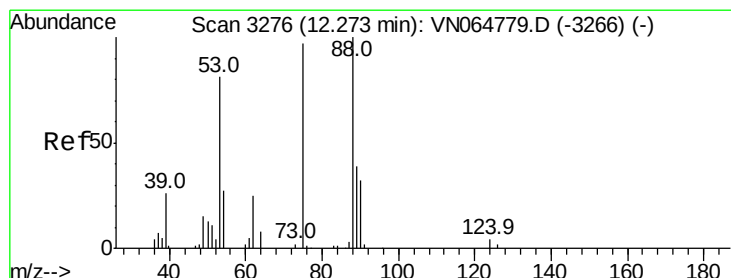
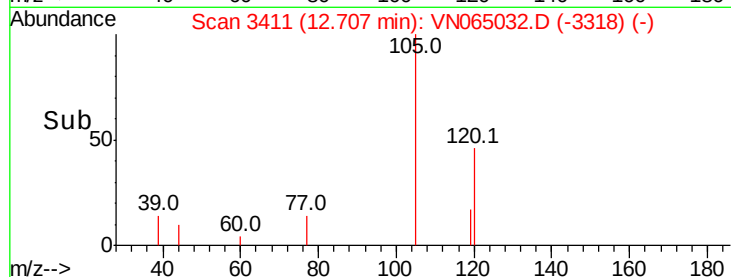
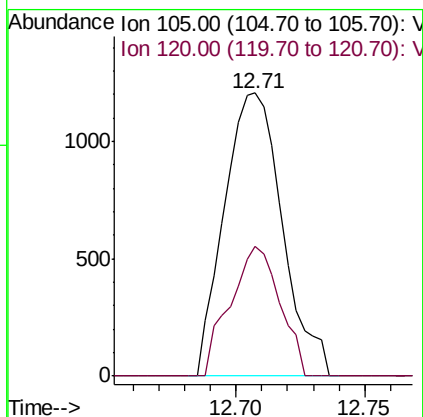
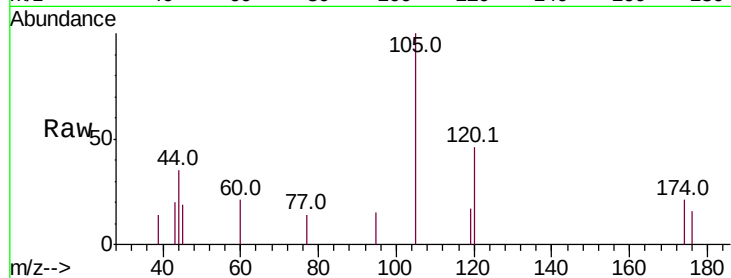
PB133472ZHE#13

Tot Ion:105 Resp: 1898

Ion Ratio Lower Upper

105 100

120 39.3 24.6 73.6



#81

trans-1,4-Dichloro-2-butene

Concen: 63.551 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN065032.D

Acq: 9 Dec 2020 19:51

Tgt Ion: 75 Resp: 71289

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#

