

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065031.D
 Acq On : 9 Dec 2020 19:27
 Operator : JC/MD
 Sample : PB133472ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#12

Quant Time: Dec 10 04:09:58 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	157470	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	317387	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	332752	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	134978	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	106128	57.97	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	115.94%		
35) Dibromofluoromethane	7.55	113	97488	51.33	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	102.66%		
50) Toluene-d8	10.06	98	394874	50.89	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	101.78%		
62) 4-Bromofluorobenzene	12.38	95	145669	52.45	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	104.90%		

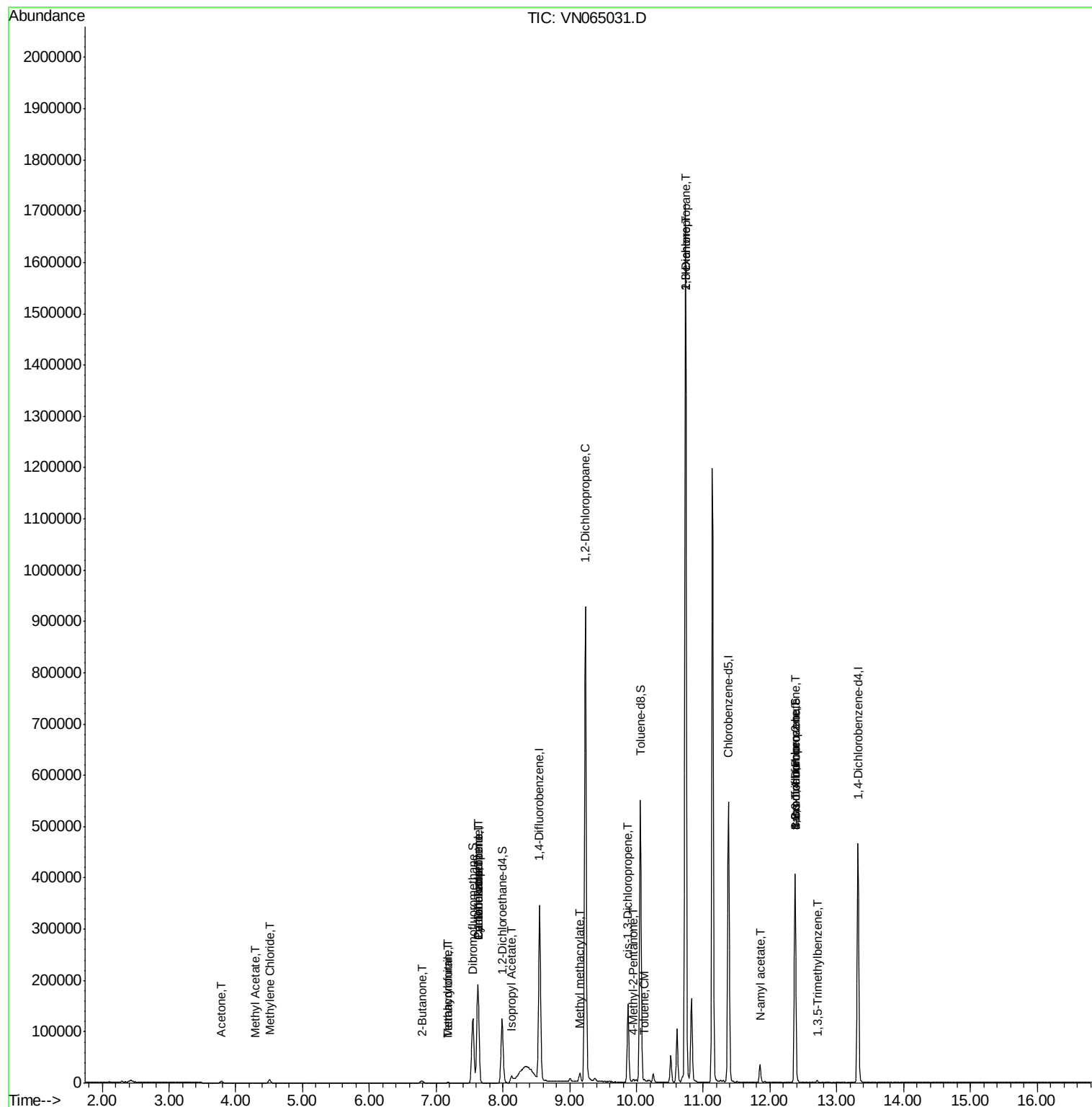
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5359	8.905	ug/l	100
18) Methyl Acetate	4.29	43	831	0.459	ug/l #	50
20) Methylene Chloride	4.51	84	4943	2.621	ug/l	95
25) 2-Butanone	6.78	43	875	0.897	ug/l #	49
29) Tetrahydrofuran	7.18	42	1057	1.570	ug/l #	69
31) Cyclohexane	7.62	56	2721	1.066	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11651	3.960	ug/l #	48
38) Carbon Tetrachloride	7.63	117	14929	4.877	ug/l #	18
41) Methacrylonitrile	7.18	41	524	0.401	ug/l #	25
43) Isopropyl Acetate	8.13	43	18615	4.082	ug/l #	88
45) 1,2-Dichloropropane	9.23	63	1214	0.520	ug/l #	43
48) Methyl methacrylate	9.15	41	4350	1.996	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3559	1.300	ug/l	97
52) Toluene	10.13	92	1457	0.262	ug/l	93
54) cis-1,3-Dichloropropene	9.87	75	28356	7.569	ug/l #	64
57) 1,3-Dichloropropane	10.73	76	17869	4.745	ug/l #	42
59) 2-Hexanone	10.74	43	232326	117.922	ug/l #	51
71) Bromoform	12.38	173	696	0.332	ug/l #	1
74) N-amyl acetate	11.85	43	10162	2.750	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	70197	24.149	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2163	0.277	ug/l	86
81) trans-1,4-Dichloro-2-buten	12.38	75	70197	66.186	ug/l #	15

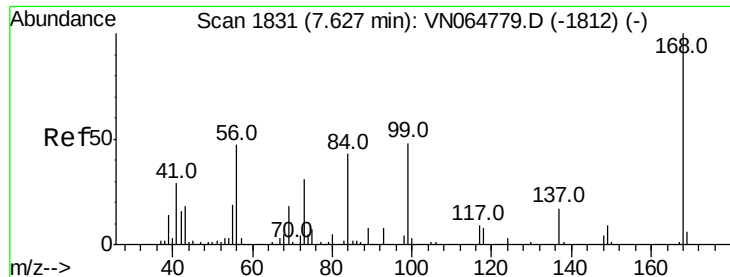
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

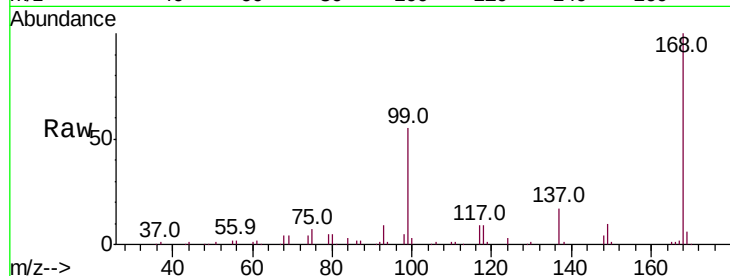
PB133472ZHE#12

Tot Ion:168 Resp: 157470

Ion Ratio Lower Upper

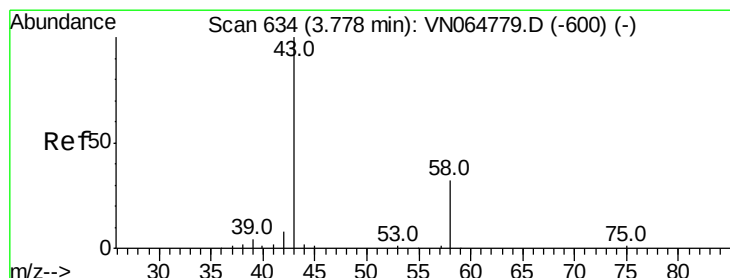
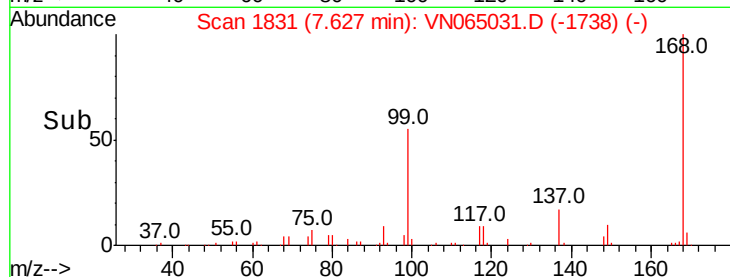
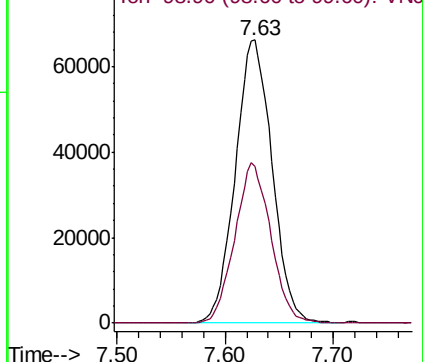
168 100

99 55.4 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 8.905 ug/l

RT: 3.79 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN065031.D

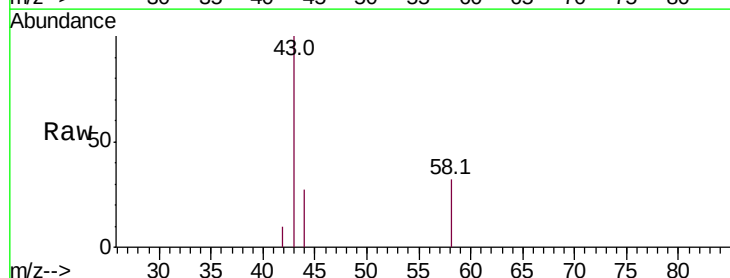
Acq: 9 Dec 2020 19:27

Tgt Ion: 43 Resp: 5359

Ion Ratio Lower Upper

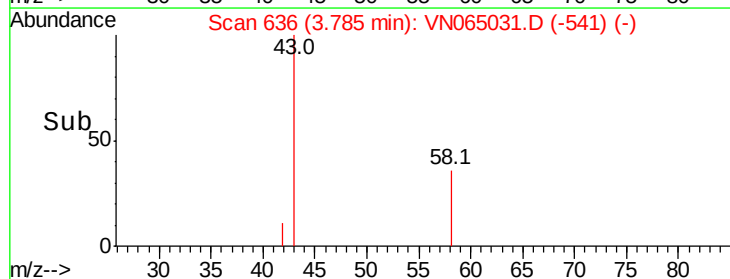
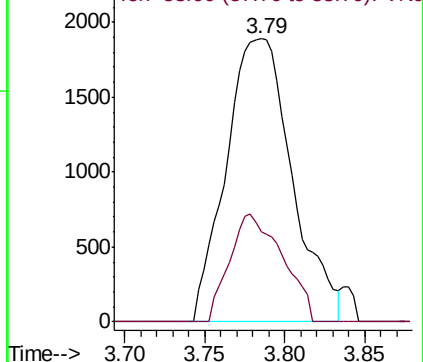
43 100

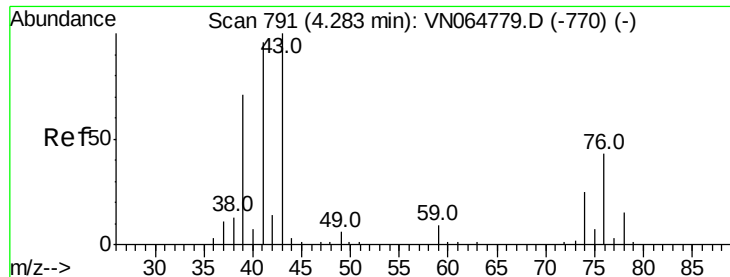
58 31.9 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.459 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

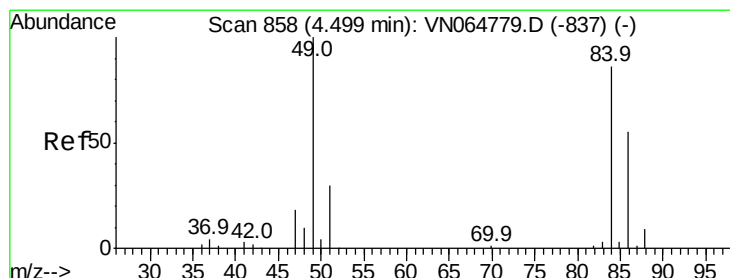
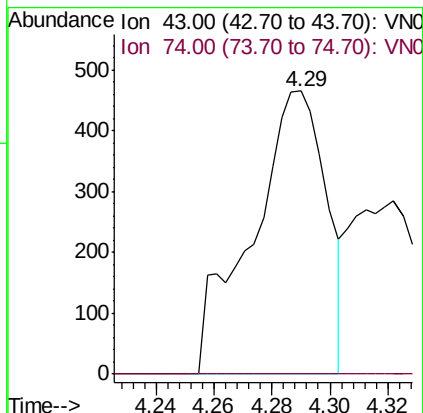
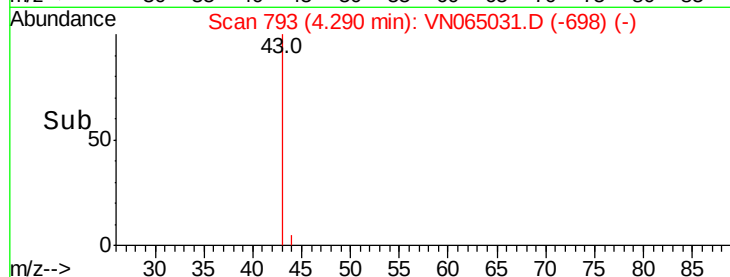
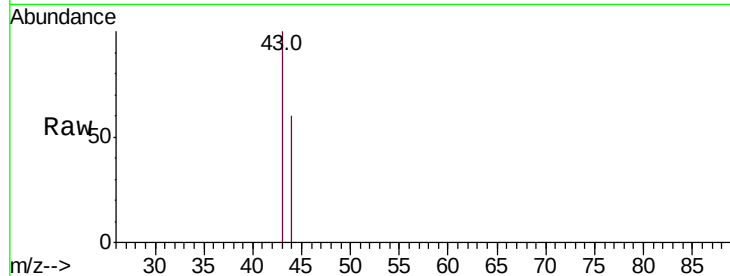
PB133472ZHE#12

Tot Ion: 43 Resp: 831

Ion Ratio Lower Upper

43 100

74 0.0 20.2 30.2#



#20

Methylene Chloride

Concen: 2.621 ug/l

RT: 4.51 min Scan# 860

Delta R.T. 0.01 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Tgt Ion: 84 Resp: 4943

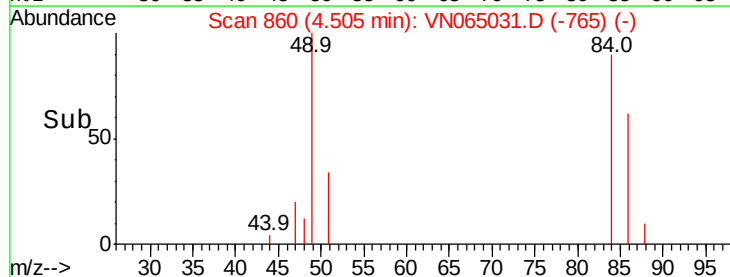
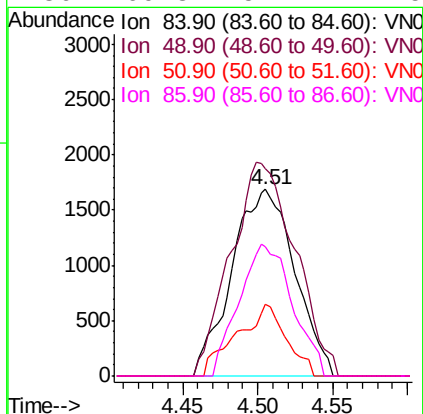
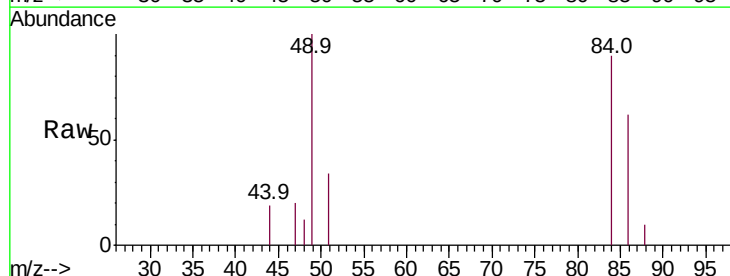
Ion Ratio Lower Upper

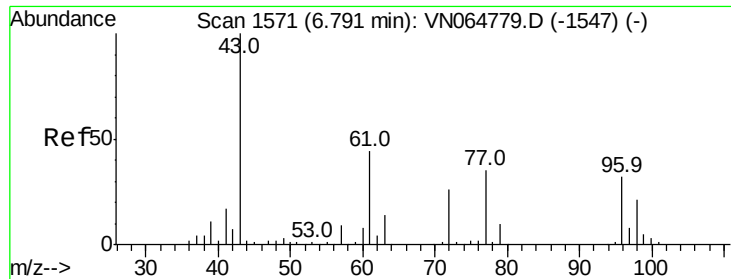
84 100

49 111.2 93.4 140.0

51 38.3 28.2 42.4

86 69.3 51.7 77.5





#25

2-Butanone

Concen: 0.897 ug/l

RT: 6.78 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

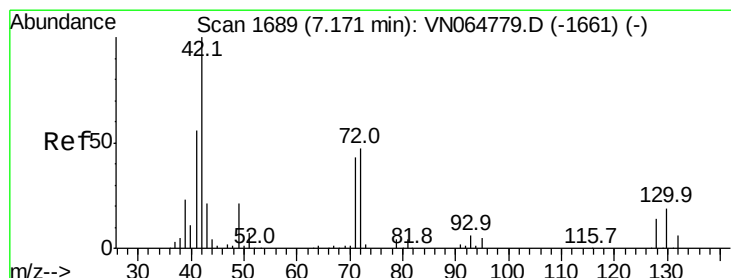
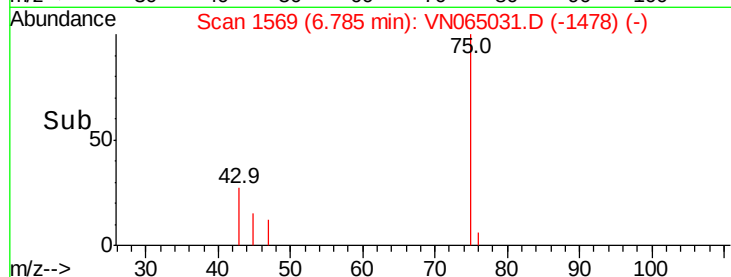
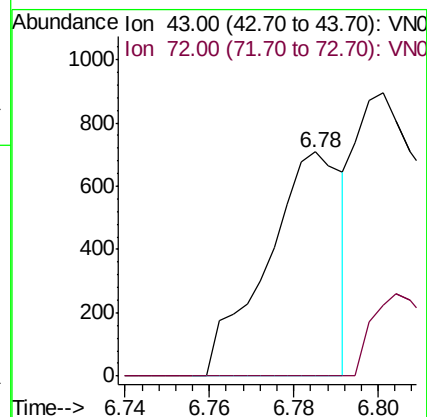
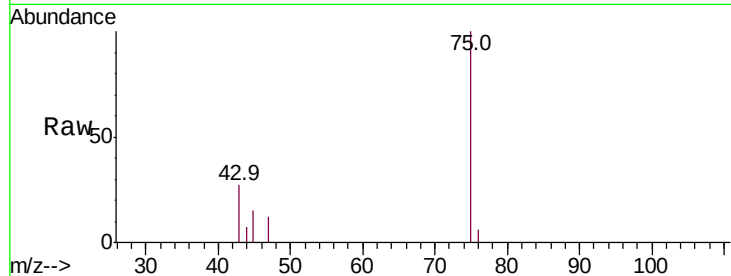
PB133472ZHE#12

Tot Ion: 43 Resp: 875

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



#29

Tetrahydrofuran

Concen: 1.570 ug/l

RT: 7.18 min Scan# 1692

Delta R.T. 0.01 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

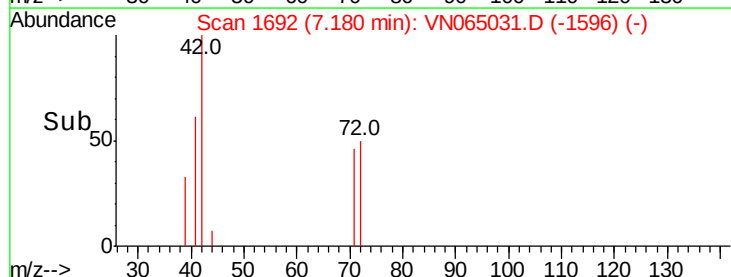
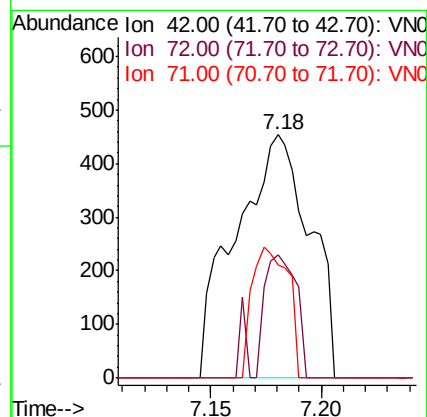
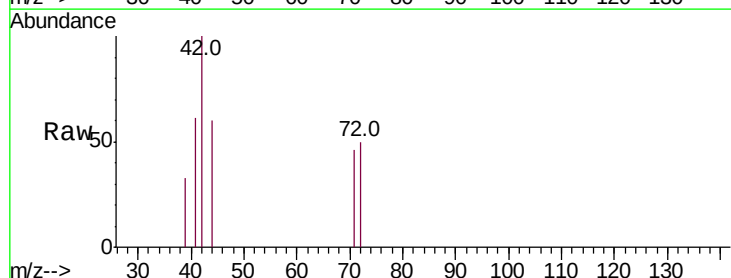
Tgt Ion: 42 Resp: 1057

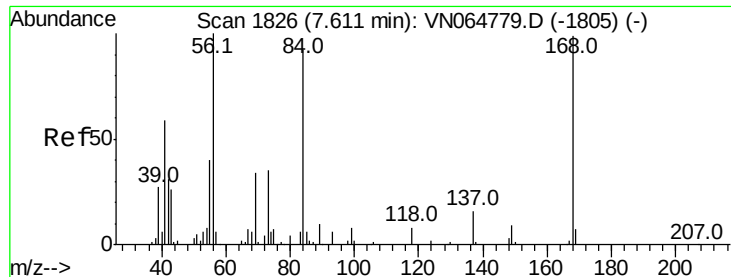
Ion Ratio Lower Upper

42 100

72 21.8 36.6 54.8#

71 26.5 33.6 50.4#





#31

Cyclohexane

Concen: 1.066 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. 0.01 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#12

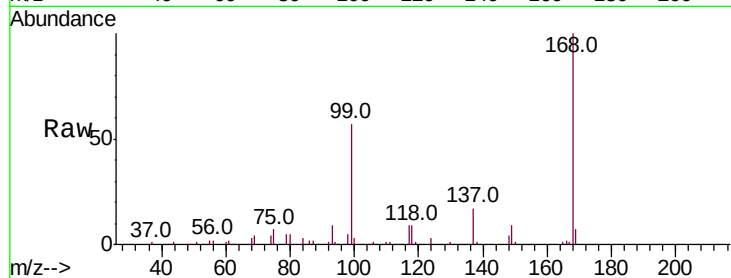
Tot Ion: 56 Resp: 2721

Ion Ratio Lower Upper

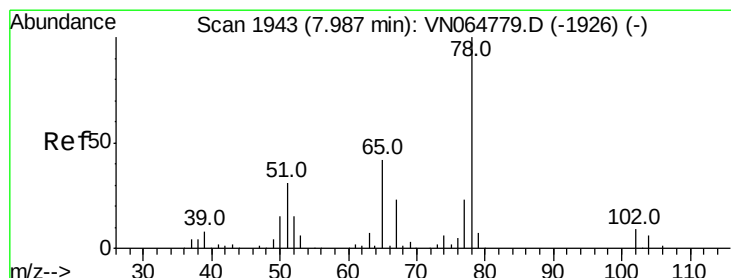
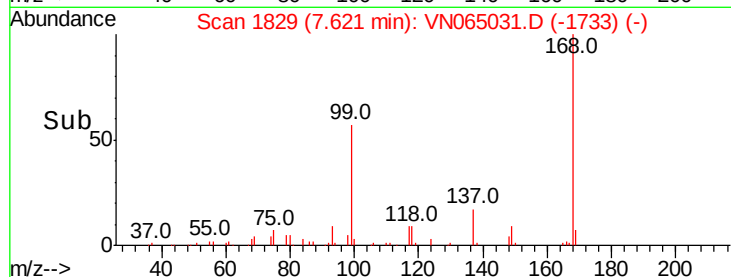
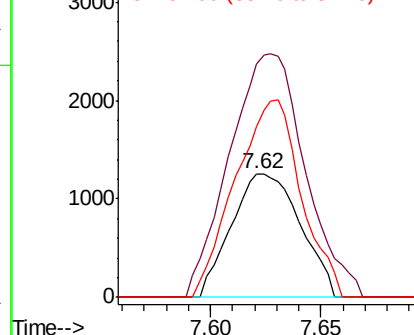
56 100

69 170.6 27.5 41.3#

84 137.8 73.9 110.9#



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



#33

1,2-Dichloroethane-d4

Concen: 57.971 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065031.D

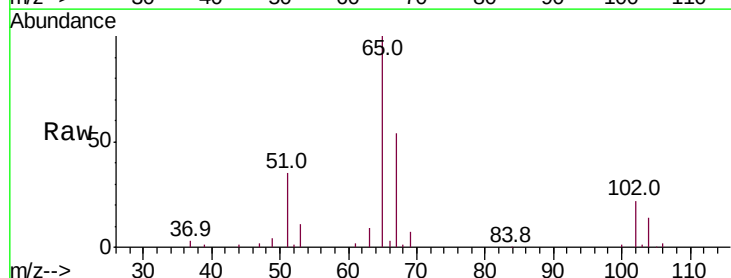
Acq: 9 Dec 2020 19:27

Tgt Ion: 65 Resp: 106128

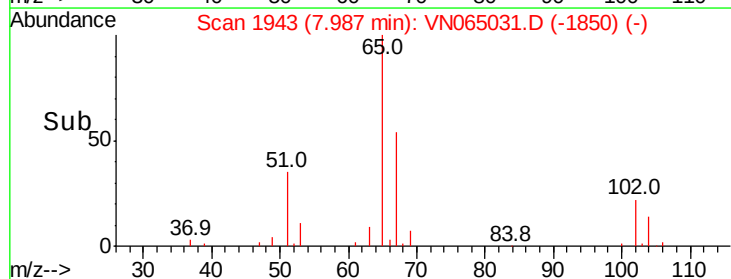
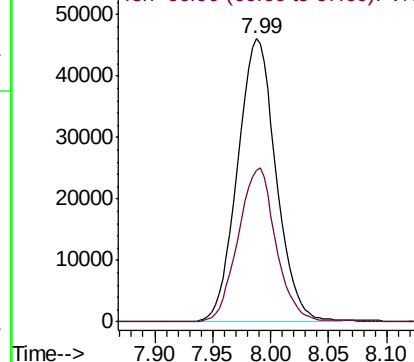
Ion Ratio Lower Upper

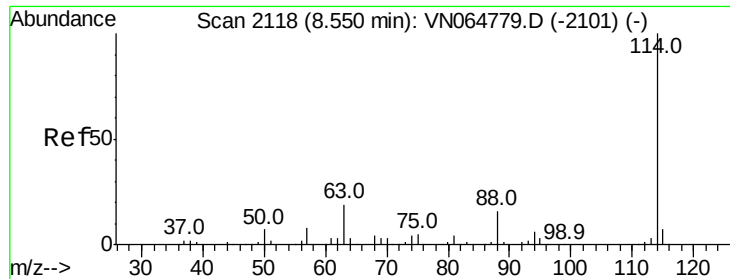
65 100

67 53.5 0.0 108.2



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

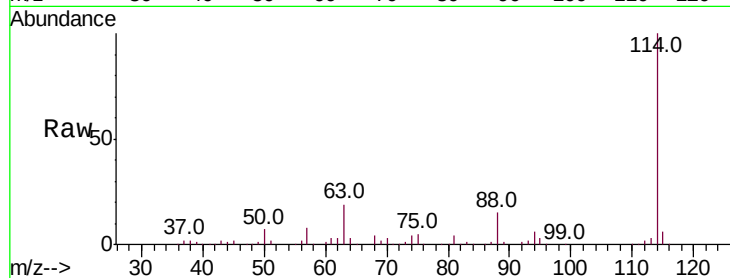




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#12

Tot Ion	Ratio	Lower	Upper
114	100		
63	19.4	0.0	38.6
88	15.4	0.0	32.6

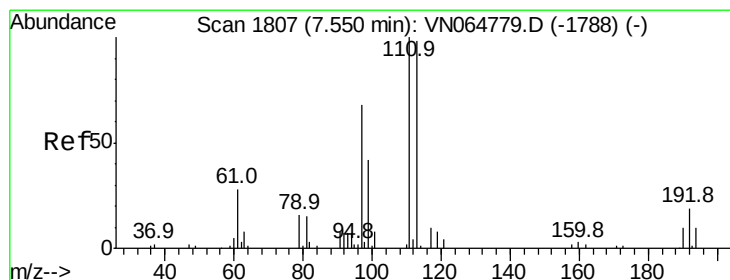
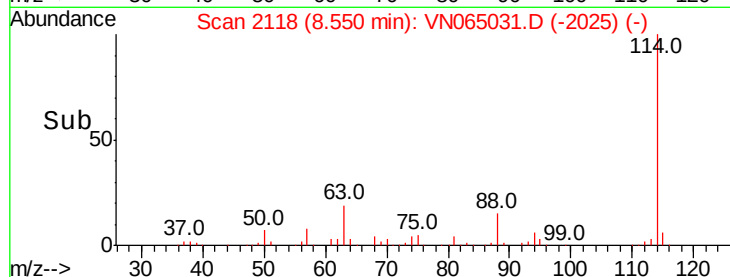
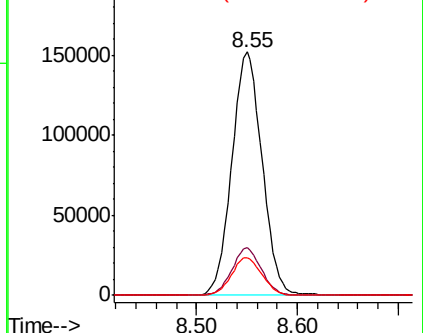


Abundance

Ion 113.90 (113.60 to 114.60): V

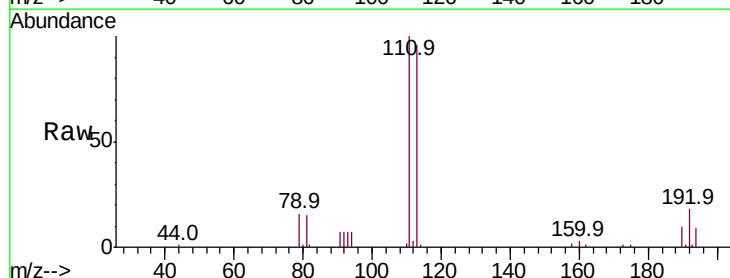
Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35
 Dibromofluoromethane
 Concen: 51.333 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.6	81.6	122.4
192	20.6	16.2	24.2

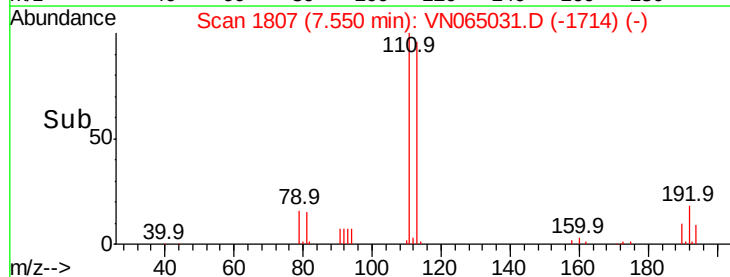
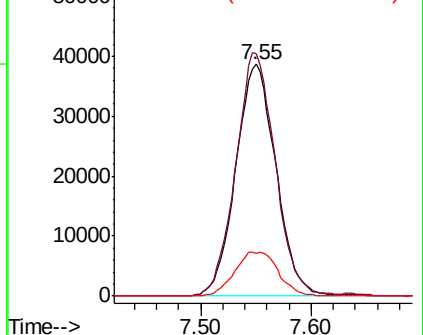


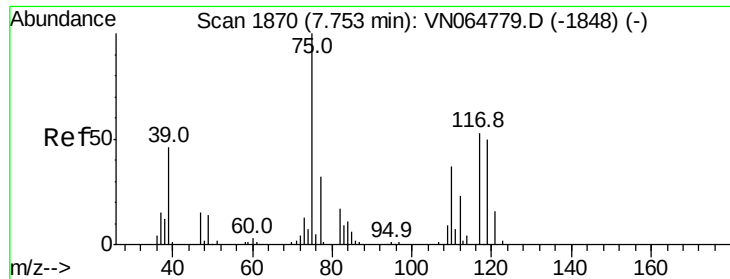
Abundance

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

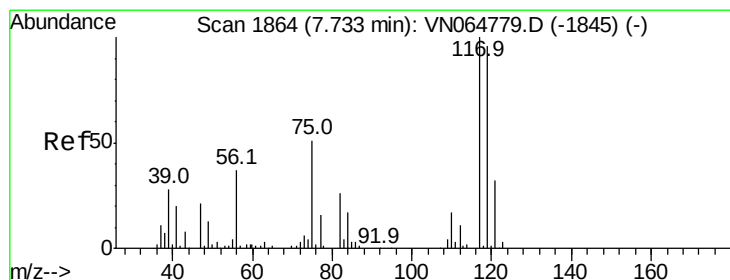
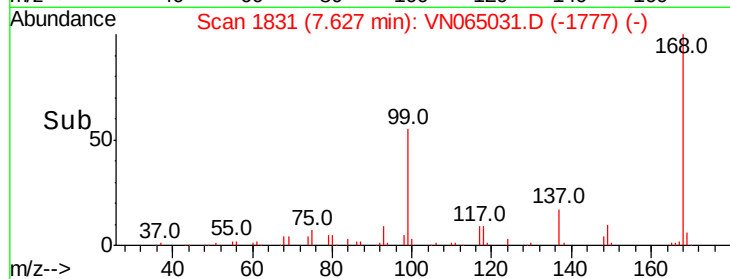
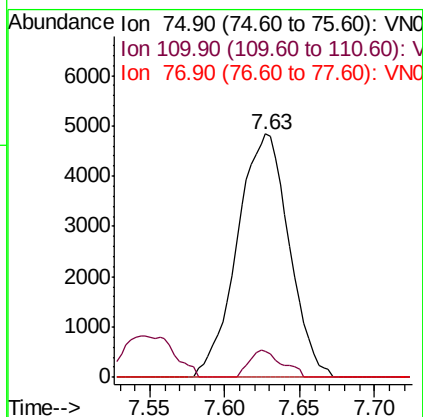
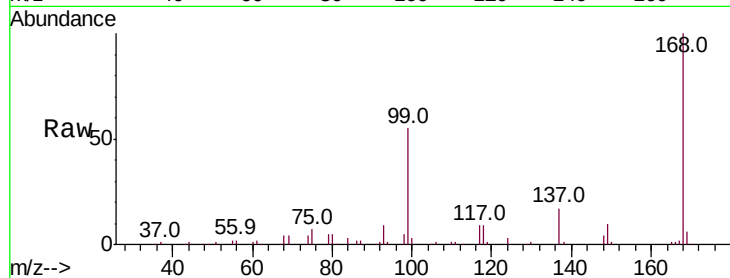




#36
 1,1-Dichloropropene
 Concen: 3.960 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

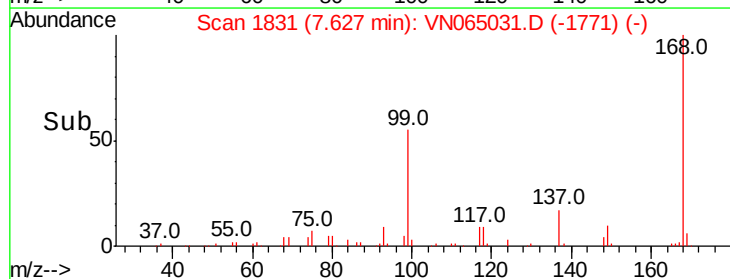
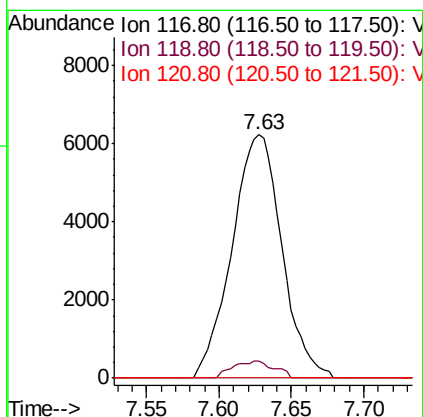
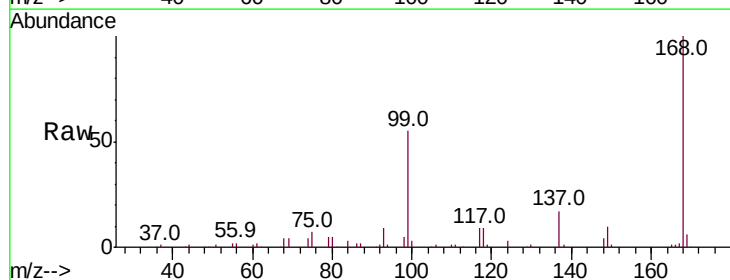
Instrument :
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 PB133472ZHE#12

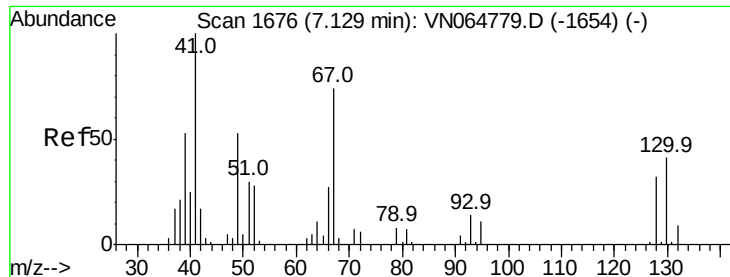
Tot Ion: 75 Resp: 11651
 Ion Ratio Lower Upper
 75 100
 110 6.9 17.8 53.3#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 4.877 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

Tgt Ion: 117 Resp: 14929
 Ion Ratio Lower Upper
 117 100
 119 7.2 76.7 115.1#
 121 0.0 25.4 38.2#

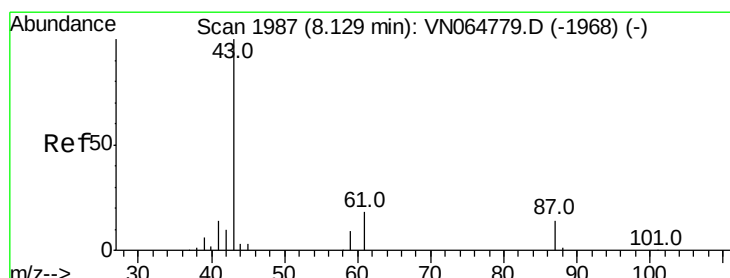
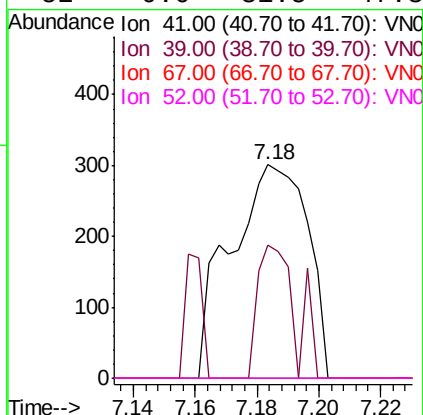
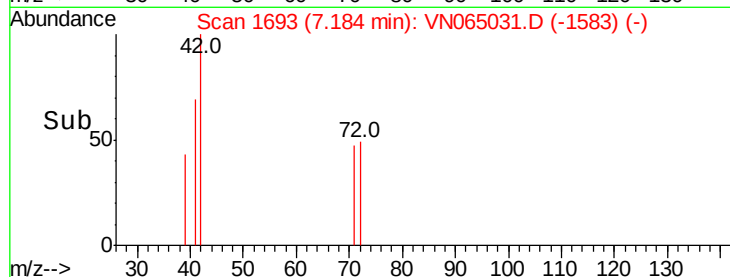
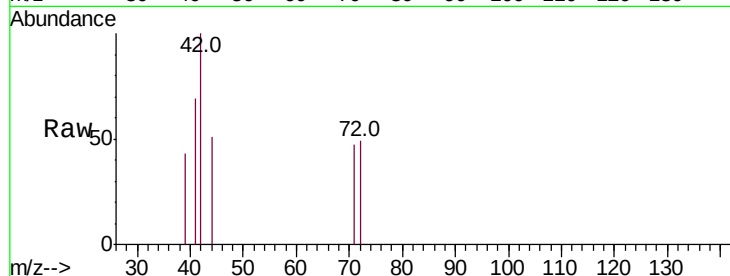




#41
Methacrylonitrile
Concen: 0.401 ug/l
RT: 7.18 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN065031.D
Acq: 9 Dec 2020 19:27

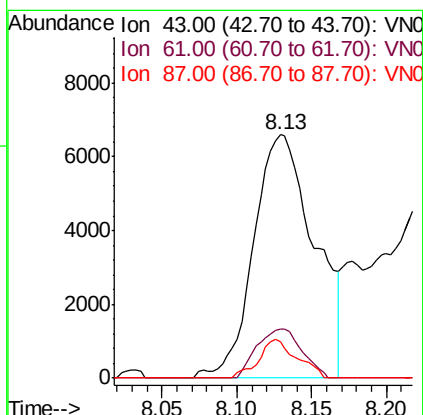
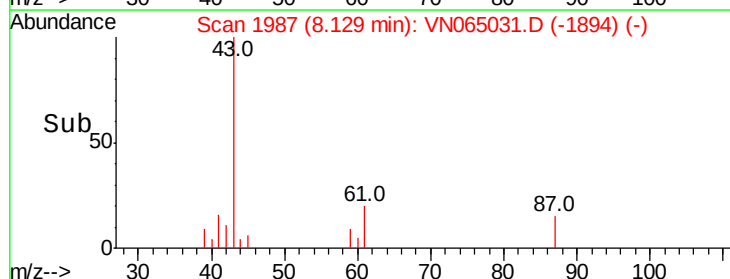
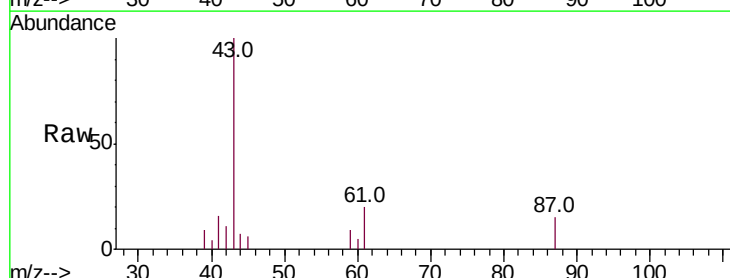
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#12

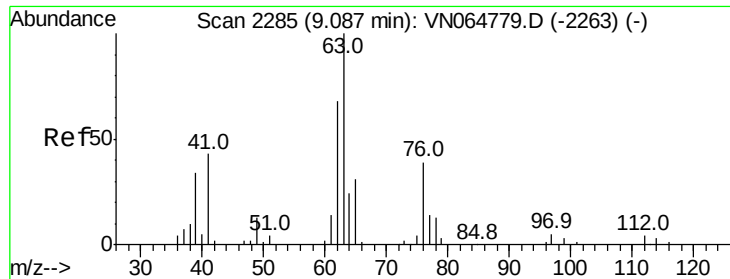
Tot Ion: 41 Resp: 524
Ion Ratio Lower Upper
41 100
39 30.5 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 4.082 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN065031.D
Acq: 9 Dec 2020 19:27

Tgt Ion: 43 Resp: 18615
Ion Ratio Lower Upper
43 100
61 15.0 17.2 25.8#
87 10.0 11.4 17.0#

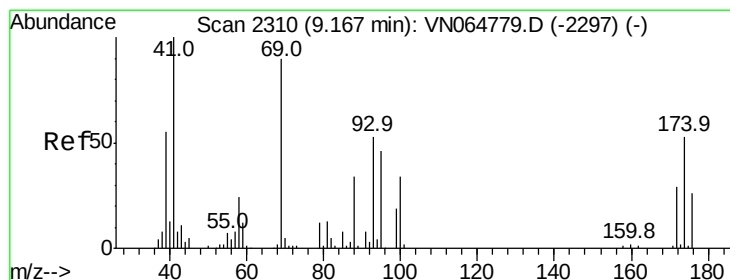
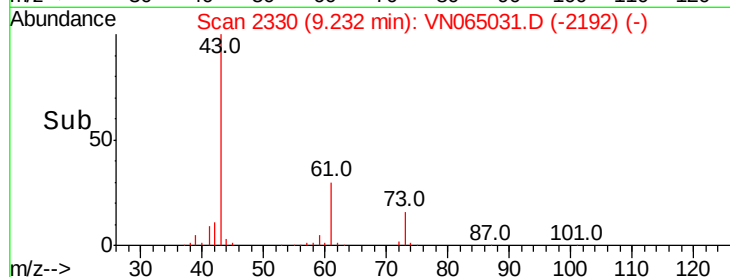
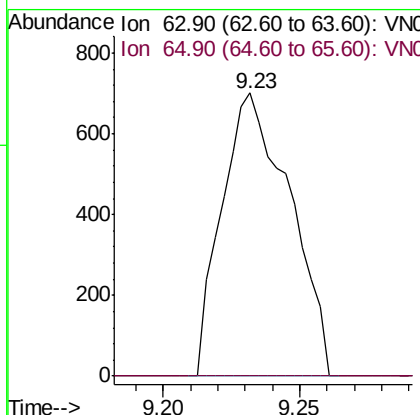
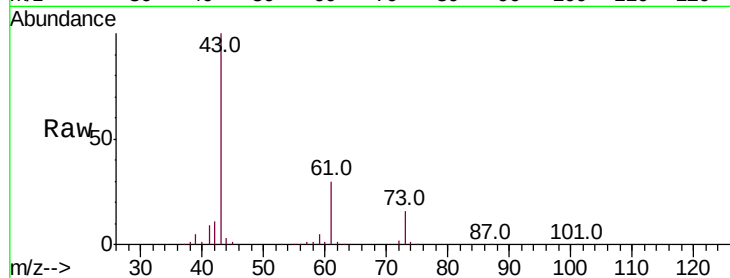




#45
 1,2-Dichloropropane
 Concen: 0.520 ug/l
 RT: 9.23 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

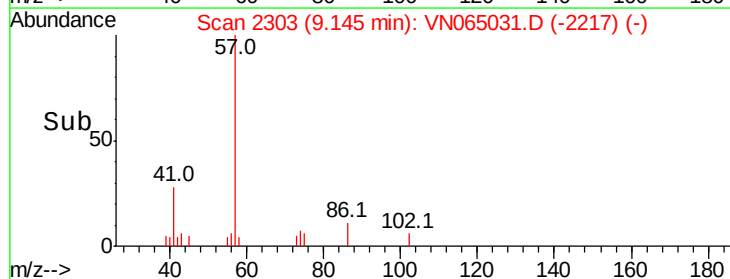
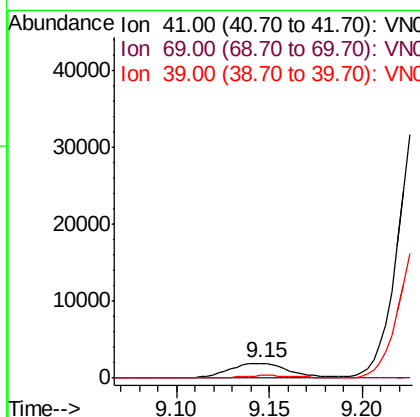
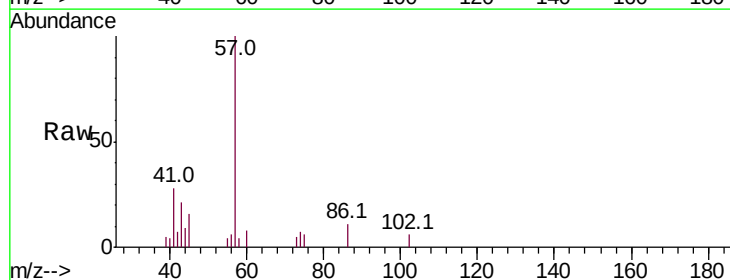
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#12

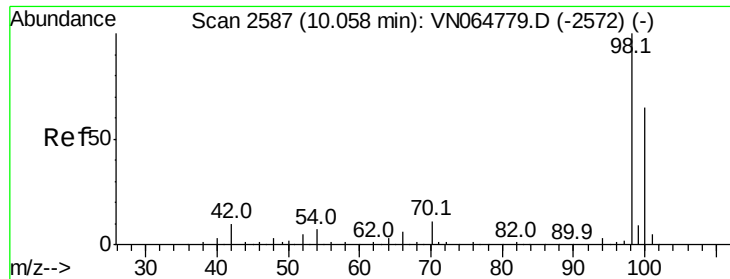
Tot Ion: 63 Resp: 1214
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.996 ug/l
 RT: 9.15 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

Tgt Ion: 41 Resp: 4350
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 50.887 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

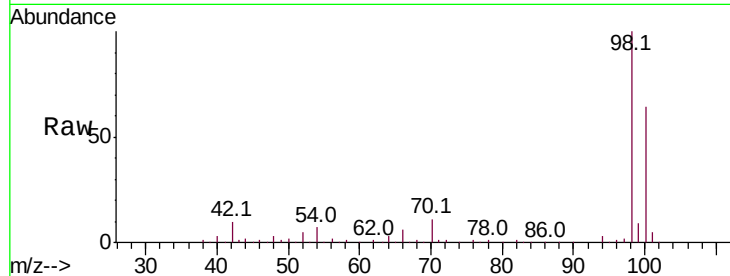
PB133472ZHE#12

Tot Ion: 98 Resp: 394874

Ion Ratio Lower Upper

98 100

100 64.5 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN064779.D (-2572) (-)

Ion 100.00 (99.70 to 100.70): VN064779.D (-2572) (-)

10.06

250000

200000

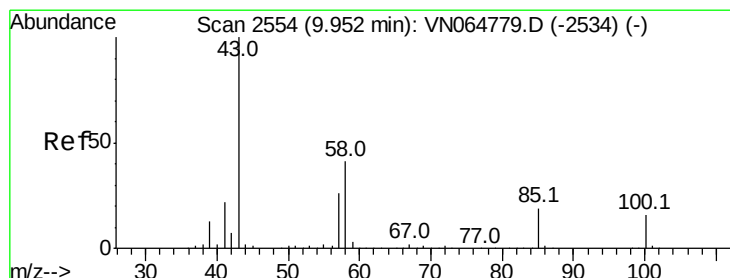
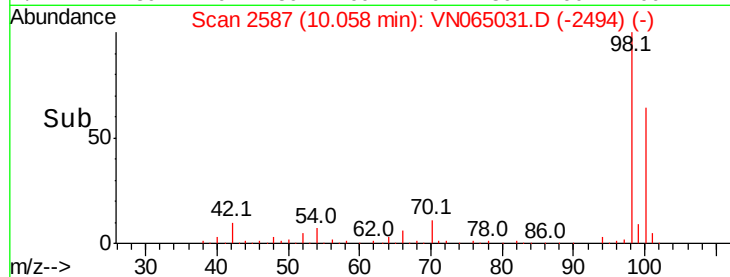
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.300 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN065031.D

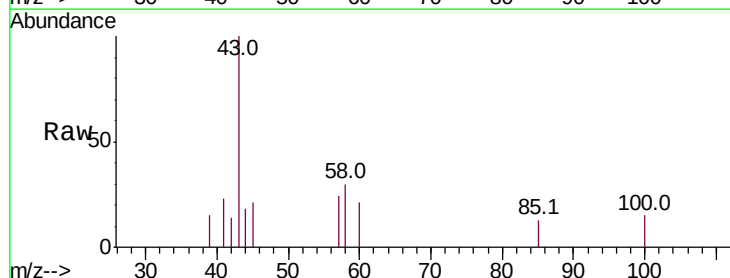
Acq: 9 Dec 2020 19:27

Tgt Ion: 43 Resp: 3559

Ion Ratio Lower Upper

43 100

58 38.6 32.4 48.6



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

Ion 58.00 (57.70 to 58.70): VN064779.D (-2534) (-)

8000

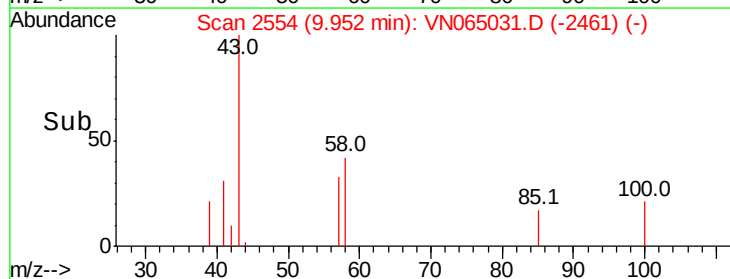
6000

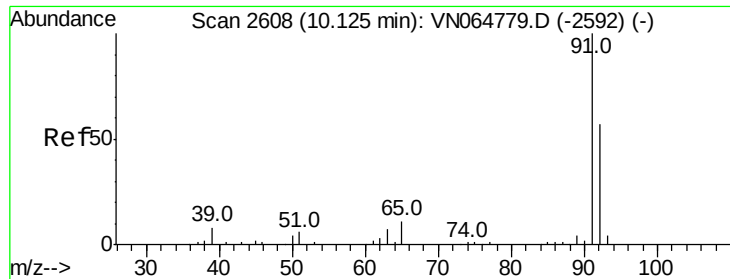
4000

2000

0

Time-->





#52

Toluene

Concen: 0.262 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

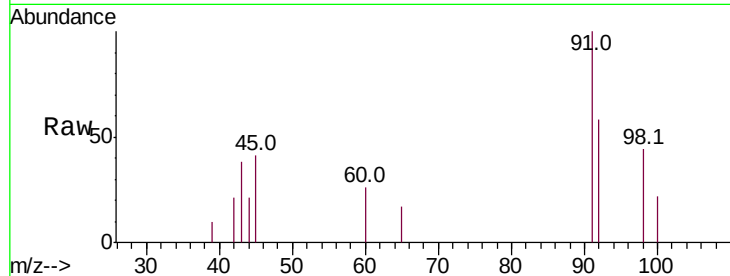
PB133472ZHE#12

Tot Ion: 92 Resp: 1457

Ion Ratio Lower Upper

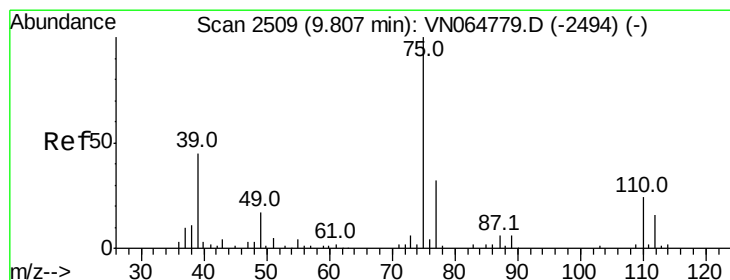
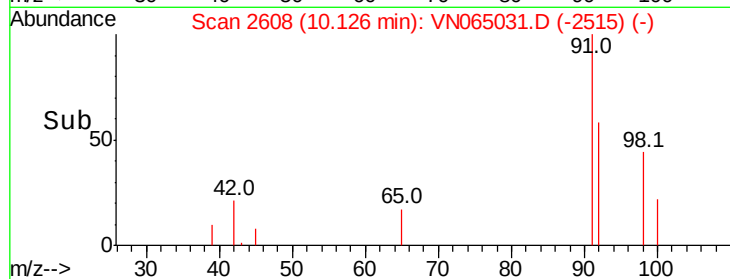
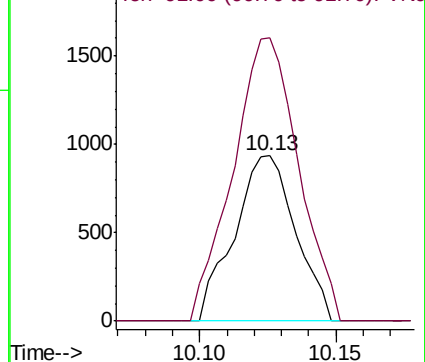
92 100

91 183.0 139.1 208.7



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

Ion 91.00 (90.70 to 91.70): VN064779.D (-2592) (-)



#54

cis-1,3-Dichloropropene

Concen: 7.569 ug/l

RT: 9.87 min Scan# 2530

Delta R.T. 0.07 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

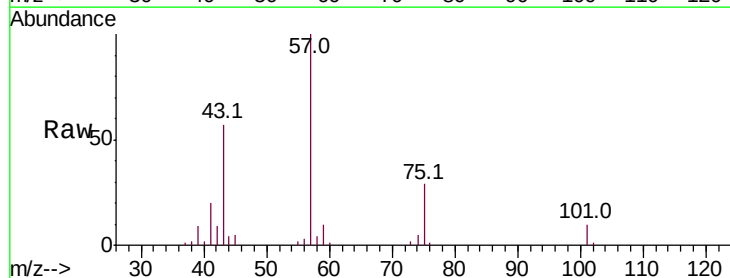
Tgt Ion: 75 Resp: 28356

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

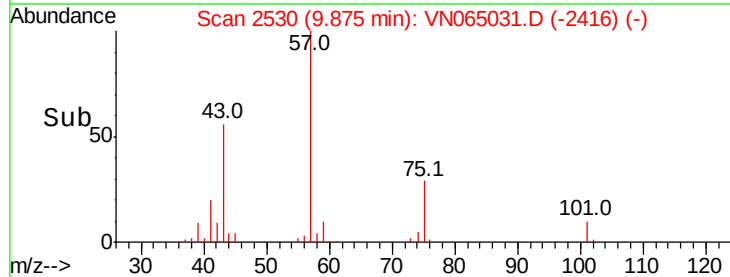
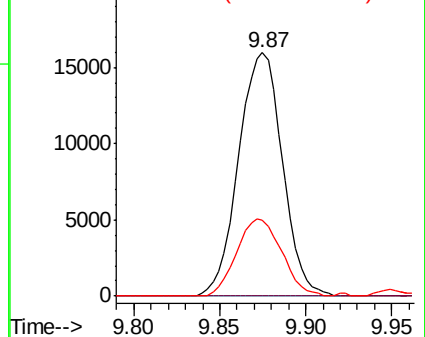
39 31.4 35.6 53.4#

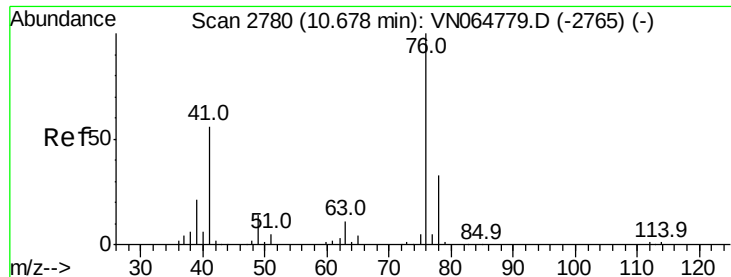


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-2494) (-)

Ion 76.90 (76.60 to 77.60): VN064779.D (-2494) (-)

Ion 39.00 (38.70 to 39.70): VN064779.D (-2494) (-)

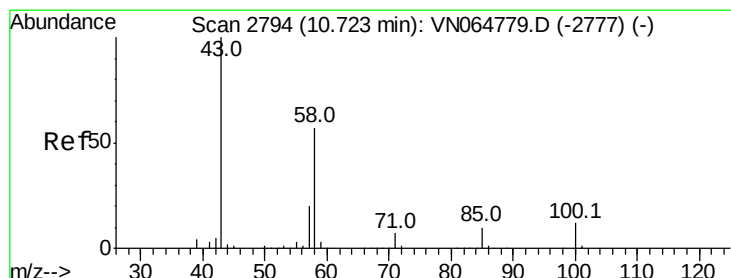
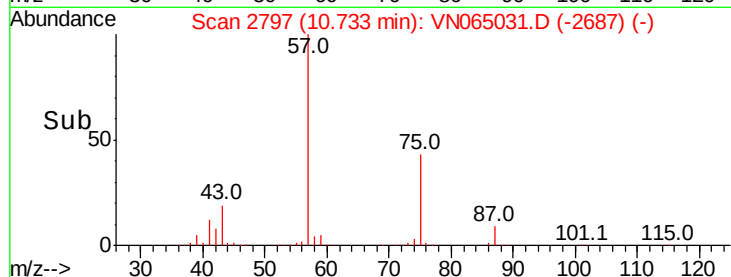
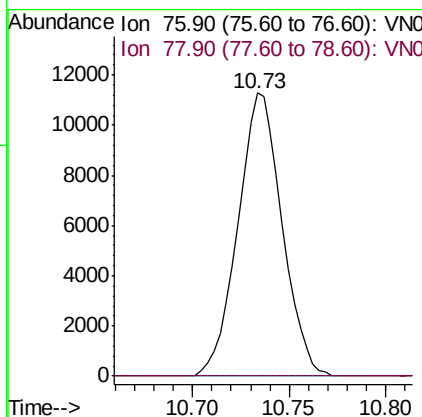
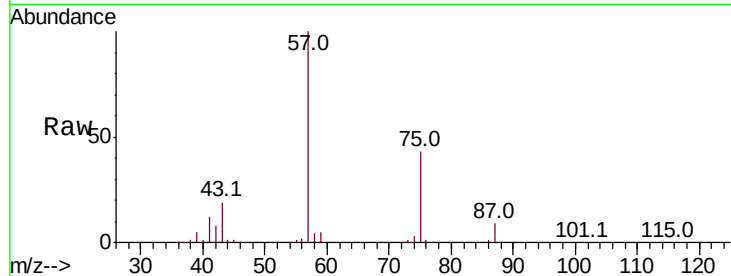




#57
 1,3-Dichloropropane
 Concen: 4.745 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

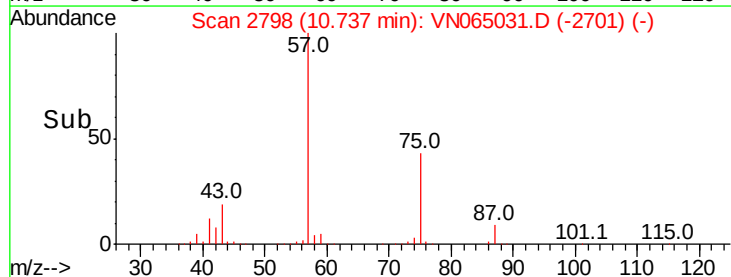
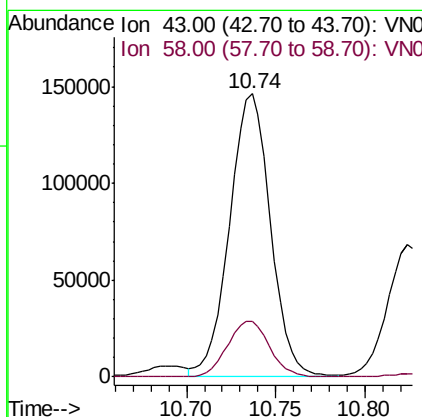
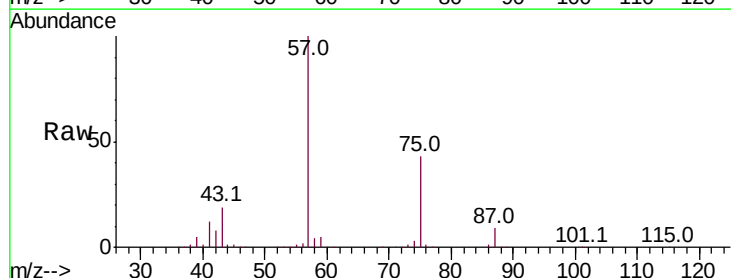
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#12

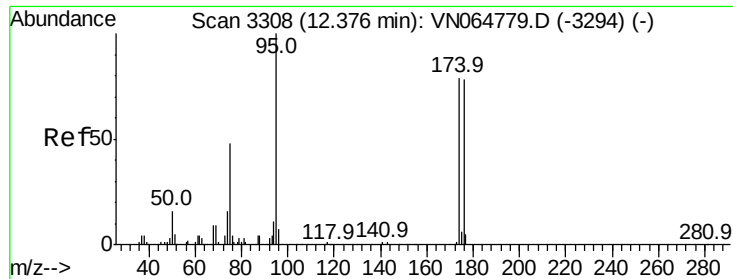
Tot Ion: 76 Resp: 17869
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.1 39.1#



#59
 2-Hexanone
 Concen: 117.922 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.01 min
 Lab File: VN065031.D
 Acq: 9 Dec 2020 19:27

Tgt Ion: 43 Resp: 232326
 Ion Ratio Lower Upper
 43 100
 58 20.5 28.3 84.9#

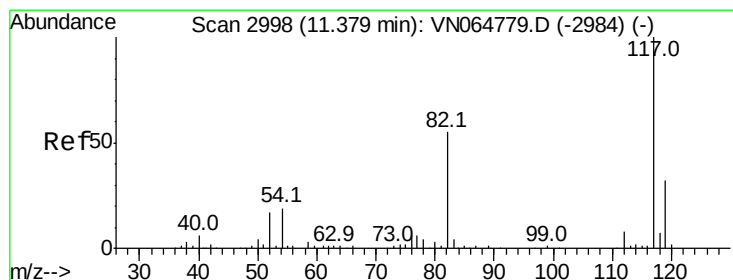
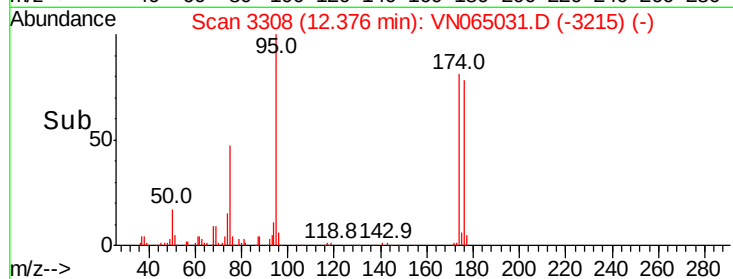
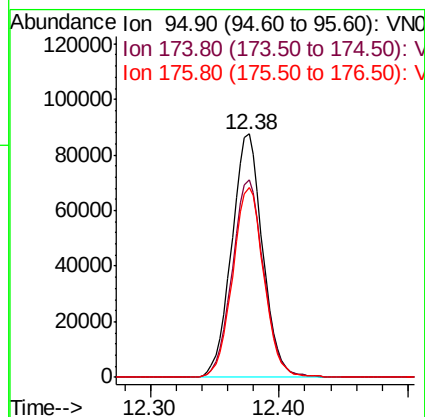
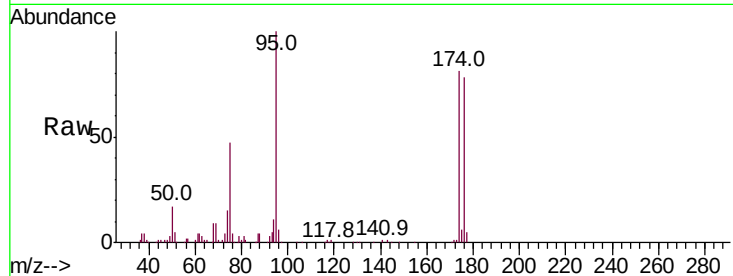




#62
4-Bromofluorobenzene
Concen: 52.454 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065031.D
Acq: 9 Dec 2020 19:27

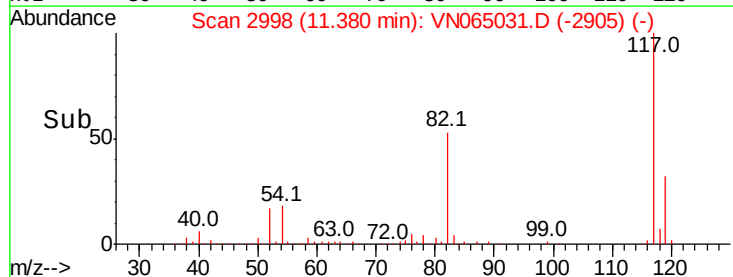
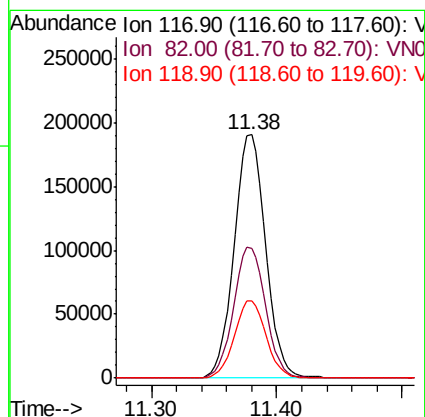
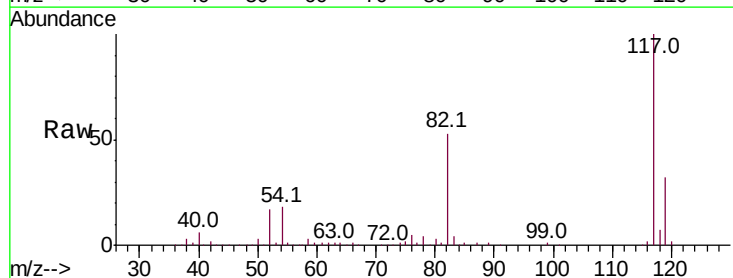
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#12

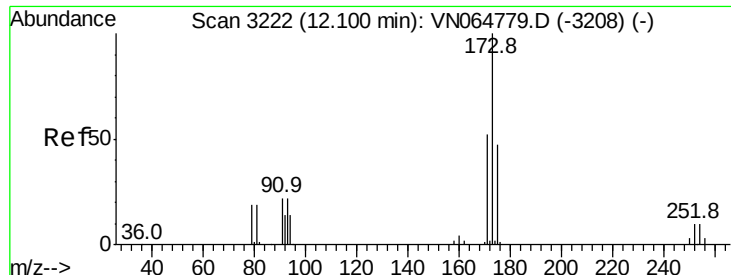
Tot Ion: 95 Resp: 145669
Ion Ratio Lower Upper
95 100
174 83.2 0.0 160.4
176 78.8 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065031.D
Acq: 9 Dec 2020 19:27

Tgt Ion: 117 Resp: 332752
Ion Ratio Lower Upper
117 100
82 53.5 44.2 66.2
119 32.0 25.8 38.6





#71

Bromoform

Concen: 0.332 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#12

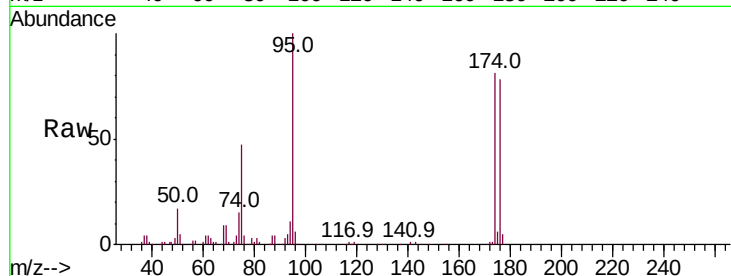
Tot Ion:173 Resp: 696

Ion Ratio Lower Upper

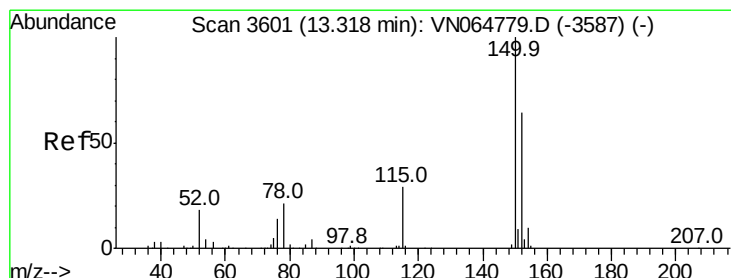
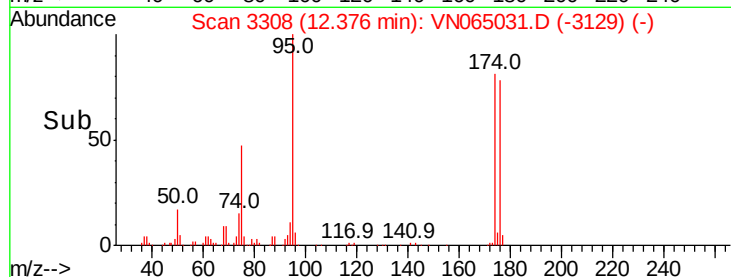
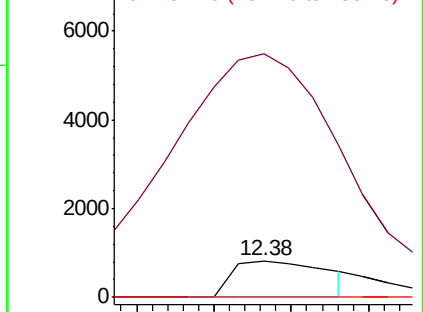
173 100

175 1140.5 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: VN065031.D

Acq: 9 Dec 2020 19:27

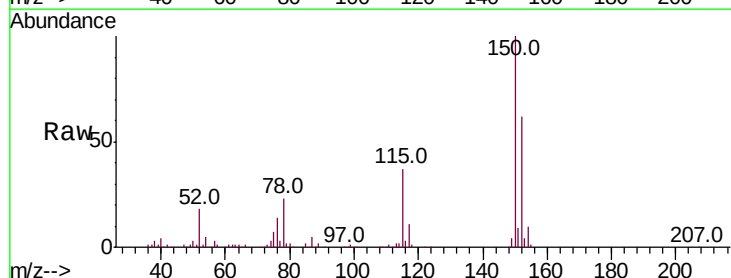
Tgt Ion:152 Resp: 134978

Ion Ratio Lower Upper

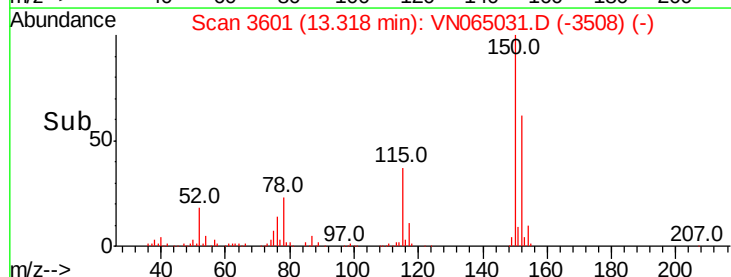
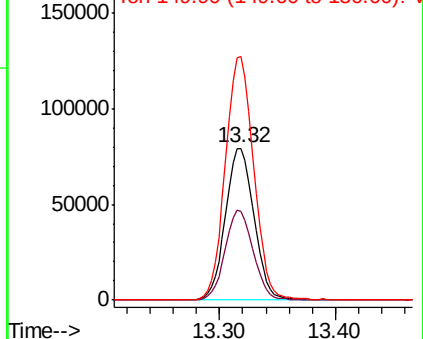
152 100

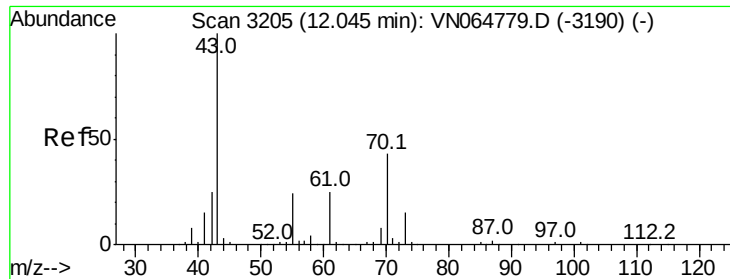
115 58.3 29.7 89.1

150 158.8 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

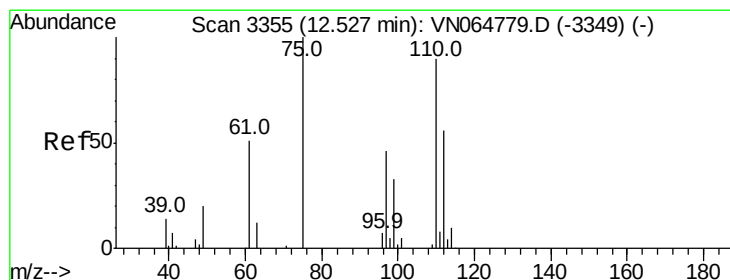
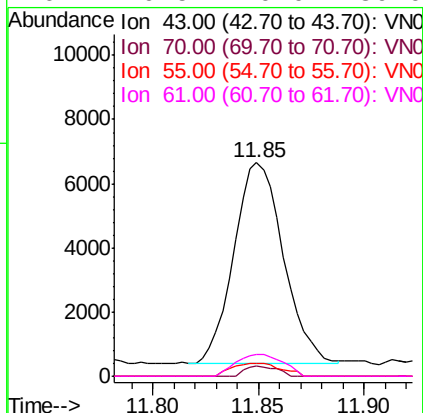
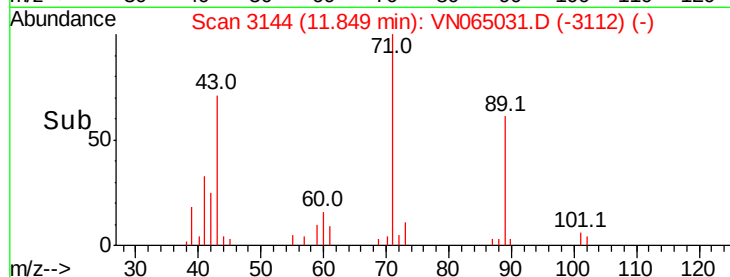
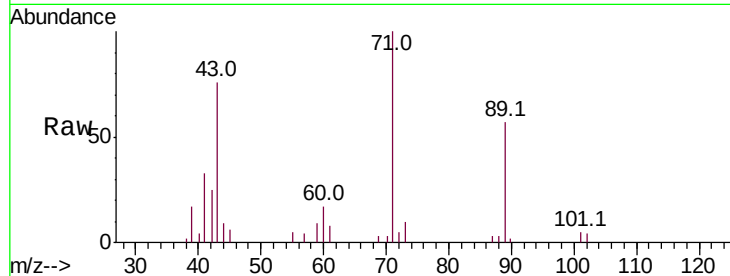




#74
N-amvl acetate
Concen: 2.750 ug/l
RT: 11.85 min Scan# 3144
Delta R.T. -0.20 min
Lab File: VN065031.D
Acq: 9 Dec 2020 19:27

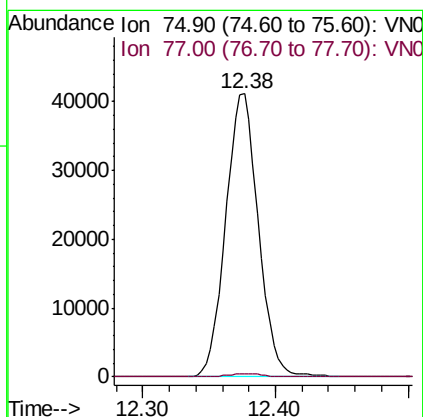
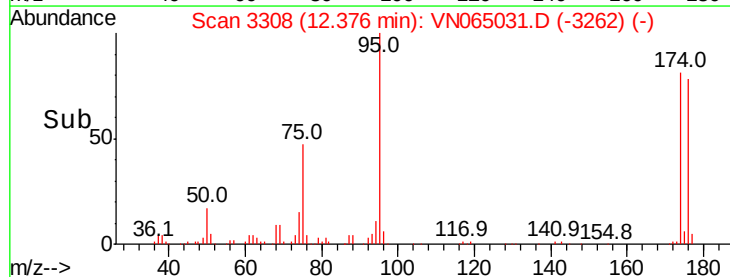
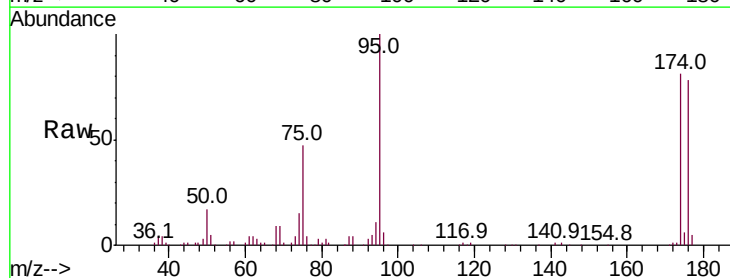
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#12

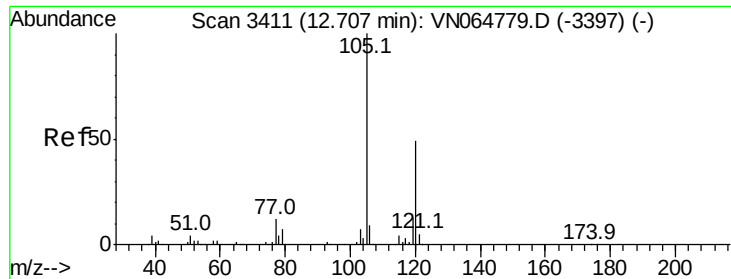
Tot Ion: 43 Resp: 10162
Ion Ratio Lower Upper
43 100
70 3.2 34.5 51.7#
55 6.6 20.4 30.6#
61 10.5 20.0 30.0#



#76
1,2,3-Trichloropropane
Concen: 24.149 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN065031.D
Acq: 9 Dec 2020 19:27

Tgt Ion: 75 Resp: 70197
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.277 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

Instrument :

MSVOA_N

ClientSampleId :

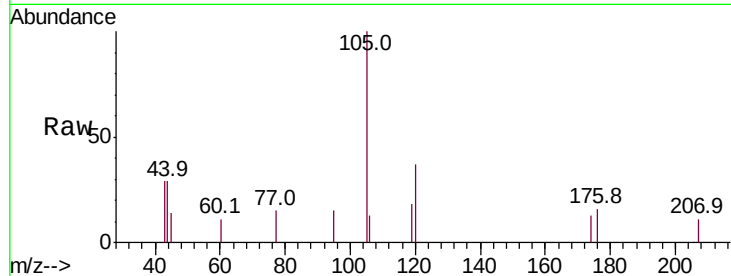
PB133472ZHE#12

Tot Ion:105 Resp: 2163

Ion Ratio Lower Upper

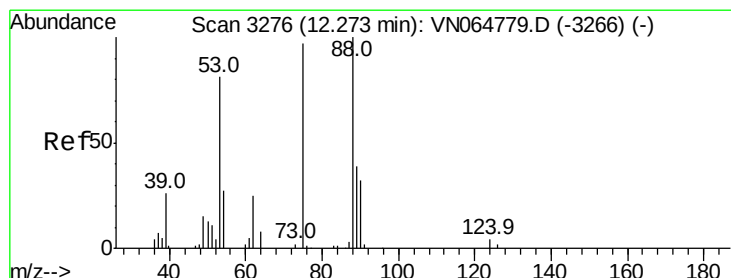
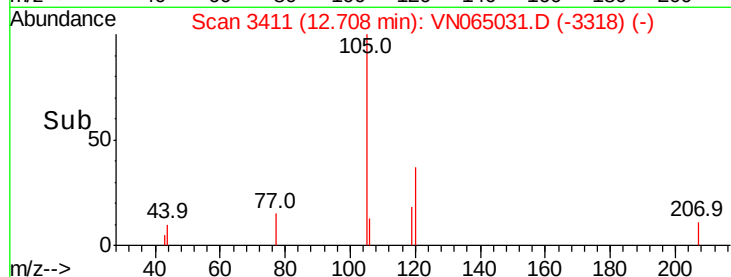
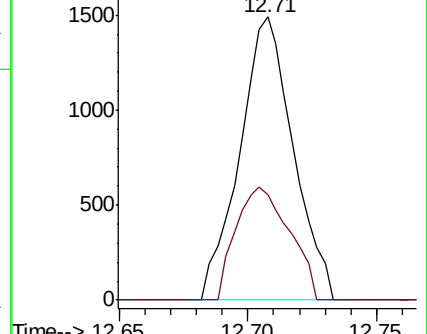
105 100

120 39.9 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 66.186 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065031.D

Acq: 9 Dec 2020 19:27

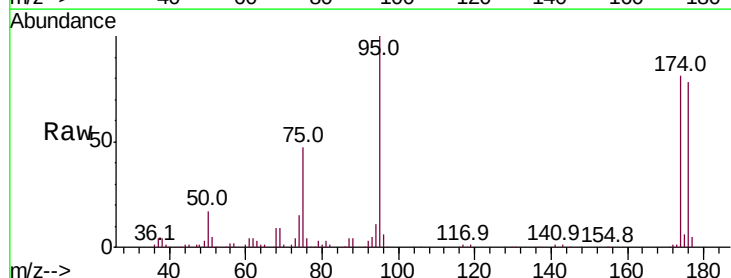
Tgt Ion: 75 Resp: 70197

Ion Ratio Lower Upper

75 100

53 0.0 67.0 100.4#

89 0.0 39.6 59.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

