

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065025.D
 Acq On : 9 Dec 2020 17:02
 Operator : JC/MD
 Sample : PB133472ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#06

Quant Time: Dec 10 04:09:00 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	162855	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	311127	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	329849	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	137070	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	107173	56.61	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	113.22%
35) Dibromofluoromethane	7.55	113	96092	51.62	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	103.24%
50) Toluene-d8	10.06	98	394317	51.84	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	103.68%
62) 4-Bromofluorobenzene	12.38	95	147653	54.24	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	108.48%

Target Compounds

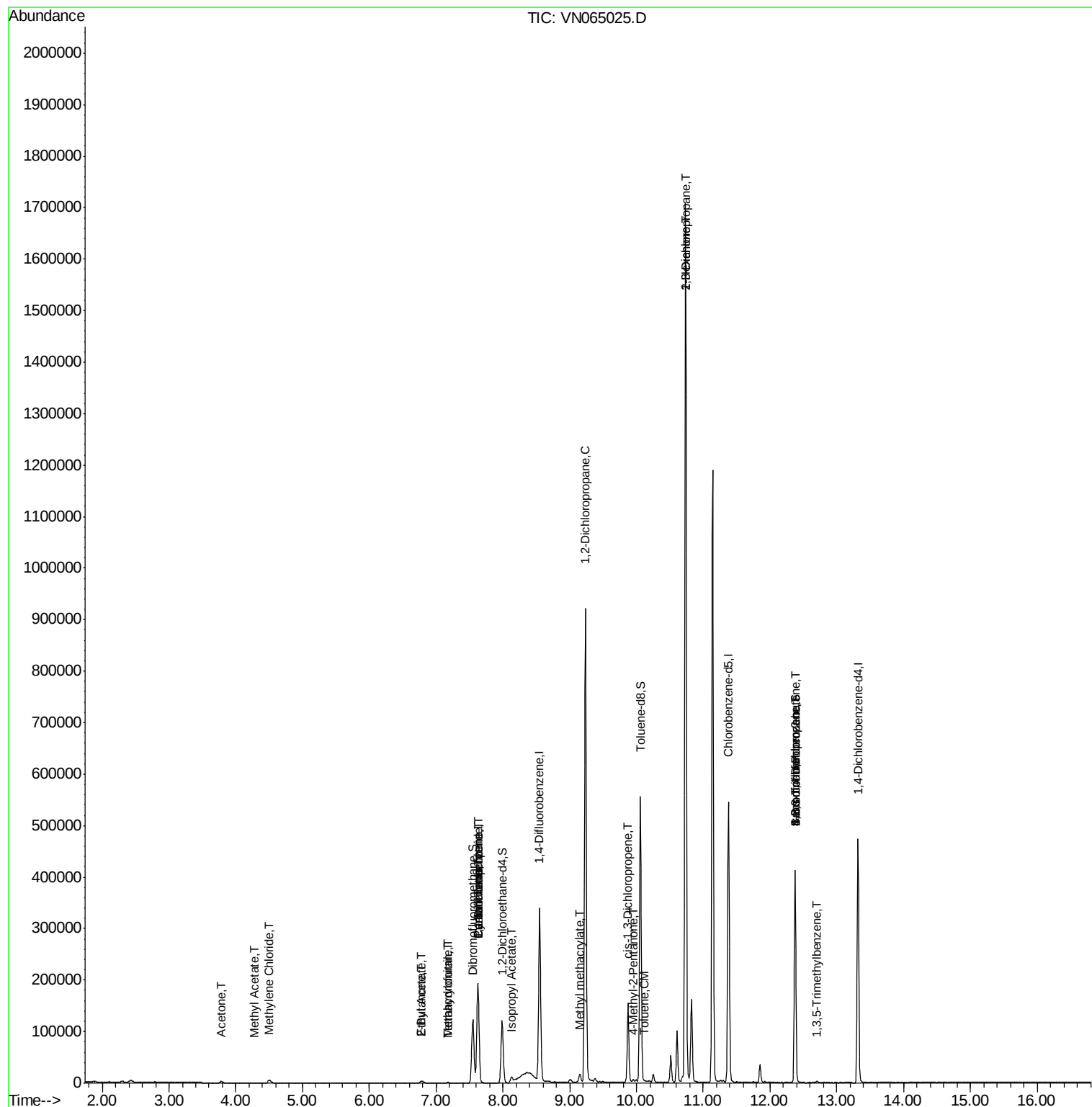
					Qvalue	
16) Acetone	3.78	43	5394	8.667	ug/l	93
18) Methyl Acetate	4.28	43	513	0.274	ug/l #	50
20) Methylene Chloride	4.50	84	2817	1.444	ug/l	98
25) 2-Butanone	6.79	43	1795	1.779	ug/l	97
29) Tetrahydrofuran	7.17	42	1169	1.679	ug/l #	53
31) Cyclohexane	7.62	56	2987	1.132	ug/l #	1
36) 1,1-Dichloropropene	7.62	75	11000	3.814	ug/l #	48
37) Ethyl Acetate	6.79	43	1795	0.646	ug/l #	66
38) Carbon Tetrachloride	7.62	117	15108	5.035	ug/l #	18
41) Methacrylonitrile	7.17	41	344	0.268	ug/l #	13
43) Isopropyl Acetate	8.13	43	14618	3.270	ug/l	97
45) 1,2-Dichloropropane	9.23	63	1167	0.510	ug/l #	43
48) Methyl methacrylate	9.14	41	4228	1.979	ug/l #	12
51) 4-Methyl-2-Pentanone	9.96	43	3617	1.348	ug/l	99
52) Toluene	10.13	92	1532	0.282	ug/l	98
54) cis-1,3-Dichloropropene	9.87	75	28046	7.637	ug/l #	64
57) 1,3-Dichloropropane	10.74	76	17550	4.754	ug/l #	42
59) 2-Hexanone	10.74	43	229317	118.737	ug/l #	51
71) Bromoform	12.37	173	496	0.239	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	69899	23.679	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2106	0.266	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.38	75	69899	64.899	ug/l #	15

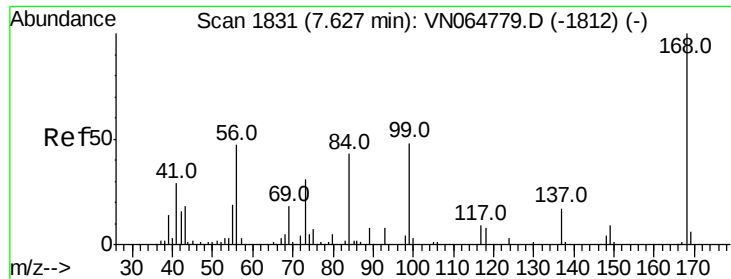
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN120920\
Data File : VN065025.D
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Misc : 5.00mL/MSVOA N/WATER
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Quant Time: Dec 10 04:09:00 2020
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: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

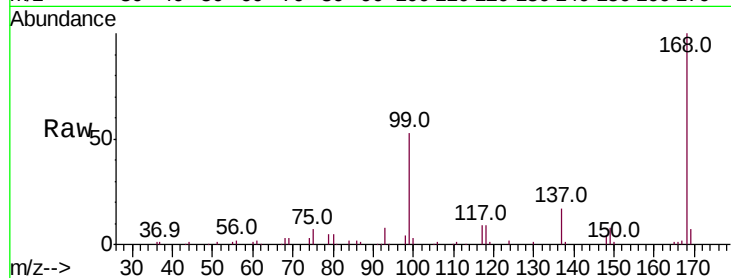
PB133472ZHE#06

Tot Ion:168 Resp: 162855

Ion Ratio Lower Upper

168 100

99 52.8 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

80000

60000

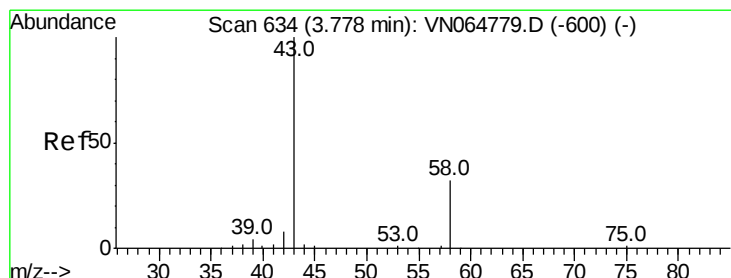
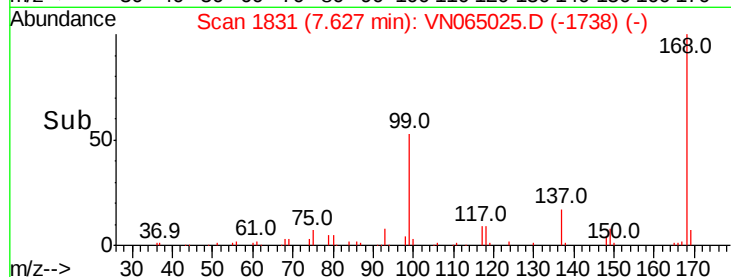
40000

20000

0

Time-->

7.55 7.60 7.65 7.70



#16

Acetone

Concen: 8.667 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN065025.D

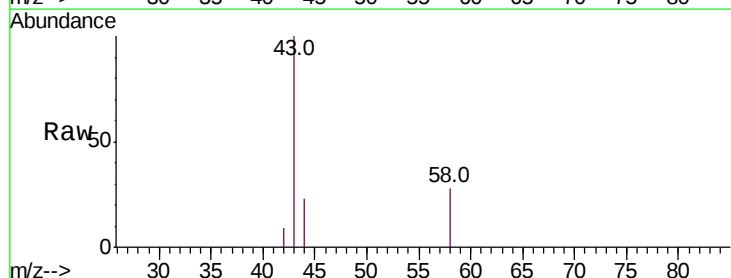
Acq: 9 Dec 2020 17:02

Tgt Ion: 43 Resp: 5394

Ion Ratio Lower Upper

43 100

58 28.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

2000

1500

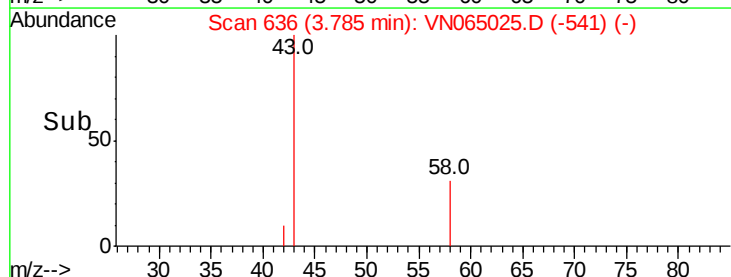
1000

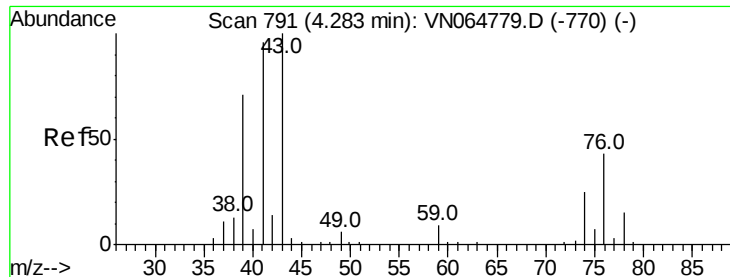
500

0

Time-->

3.70 3.75 3.80 3.85

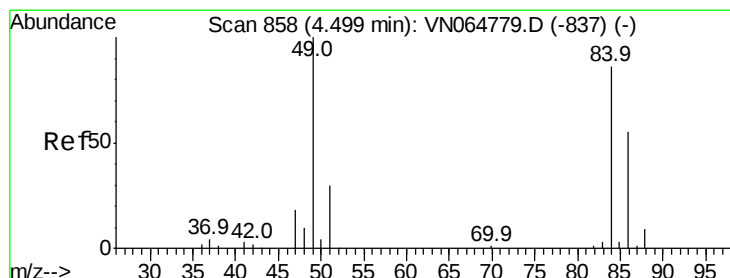
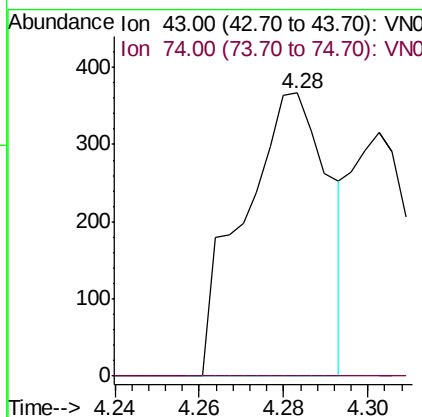
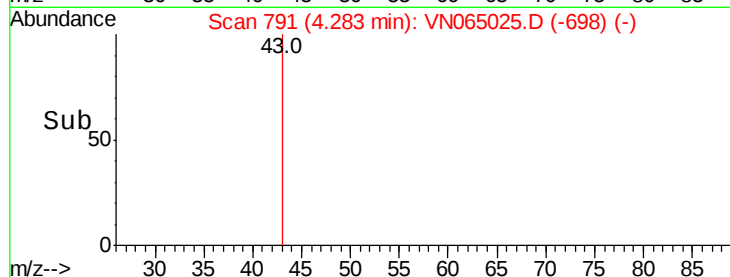
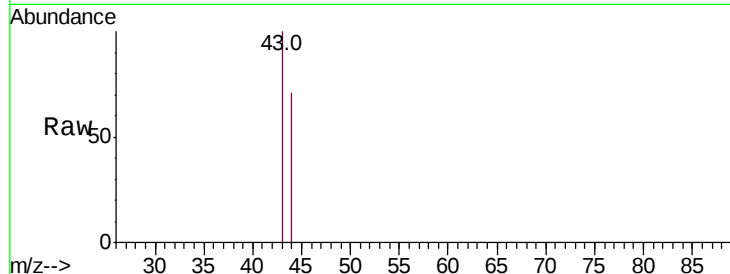




#18
Methyl Acetate
Concen: 0.274 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN065025.D
Acq: 9 Dec 2020 17:02

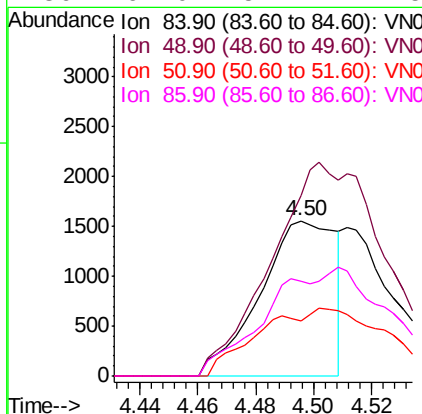
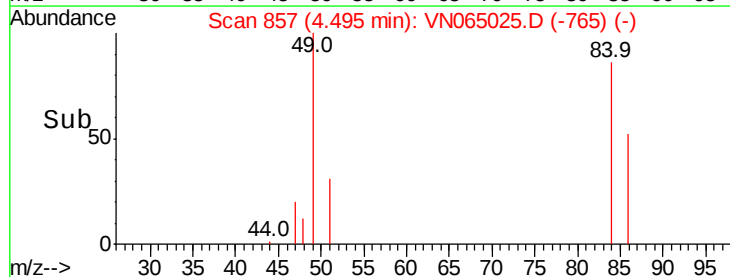
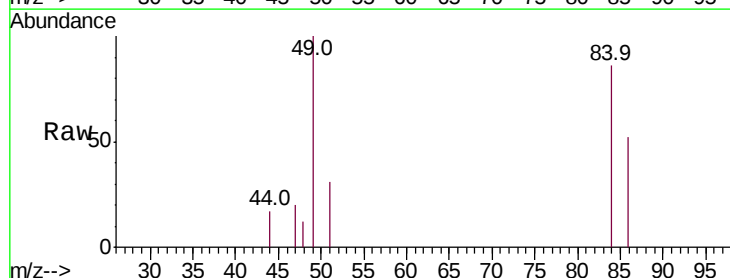
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#06

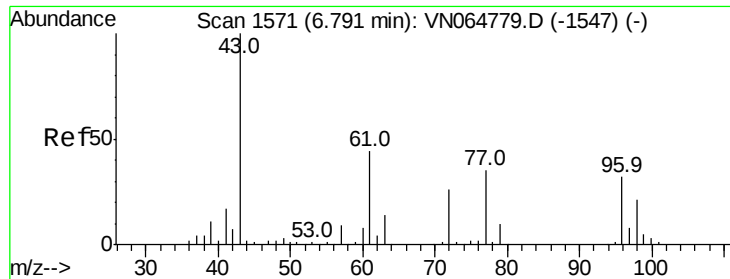
Tot Ion: 43 Resp: 513
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 1.444 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.00 min
Lab File: VN065025.D
Acq: 9 Dec 2020 17:02

Tgt Ion: 84 Resp: 2817
Ion Ratio Lower Upper
84 100
49 116.6 93.4 140.0
51 35.7 28.2 42.4
86 61.0 51.7 77.5





#25

2-Butanone

Concen: 1.779 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

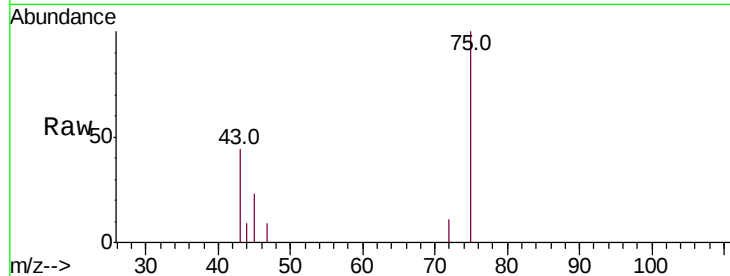
PB133472ZHE#06

Tot Ion: 43 Resp: 1795

Ion Ratio Lower Upper

43 100

72 24.9 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.79

800

600

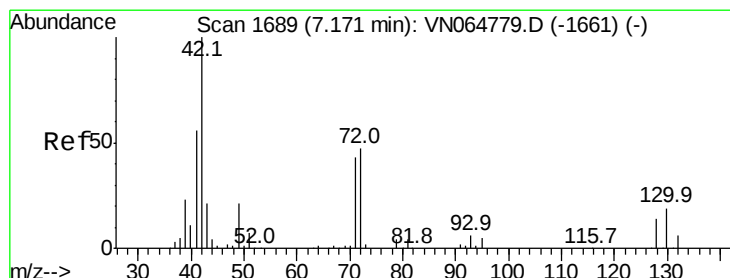
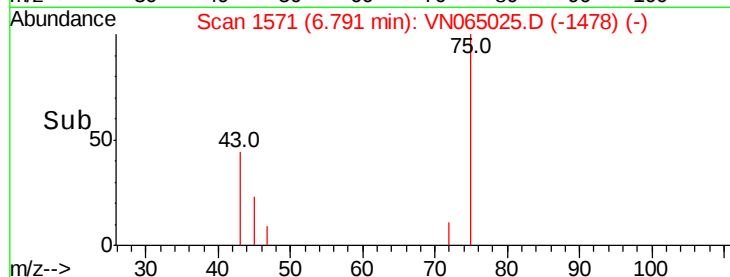
400

200

0

6.74 6.76 6.78 6.80 6.82

Time-->



#29

Tetrahydrofuran

Concen: 1.679 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

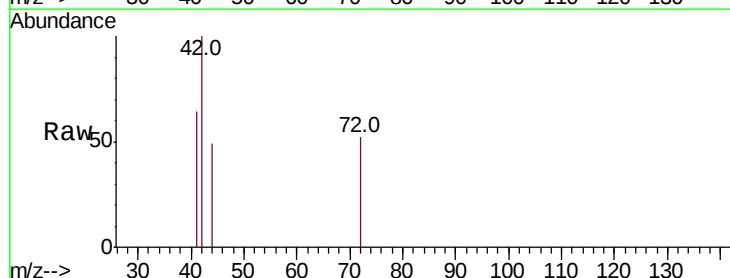
Tgt Ion: 42 Resp: 1169

Ion Ratio Lower Upper

42 100

72 20.5 36.6 54.8#

71 5.6 33.6 50.4#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

7.17

400

300

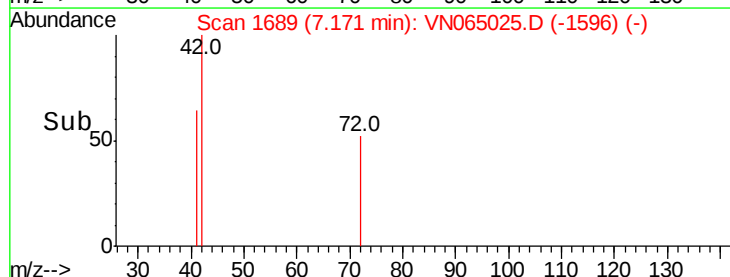
200

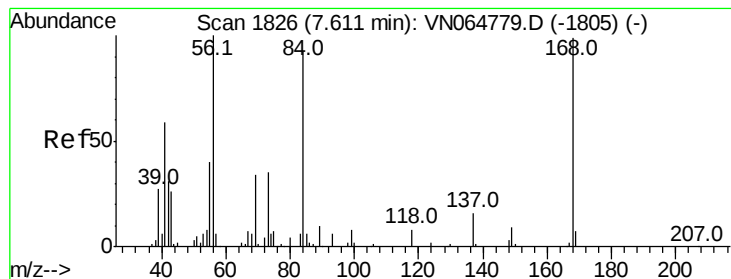
100

0

7.15 7.20

Time-->





#31

Cyclohexane

Concen: 1.132 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#06

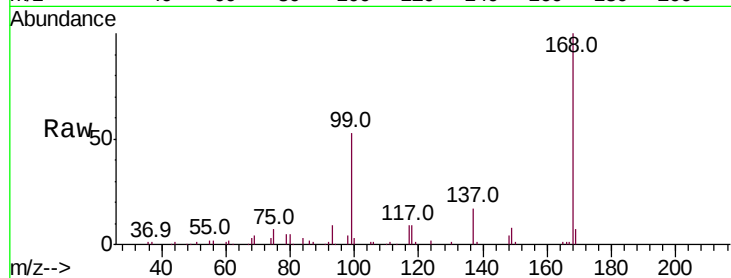
Tot Ion: 56 Resp: 2987

Ion Ratio Lower Upper

56 100

69 195.4 27.5 41.3#

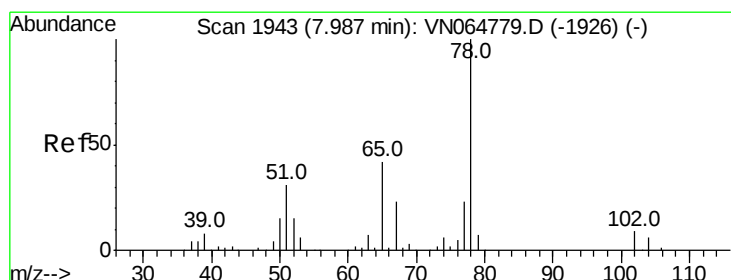
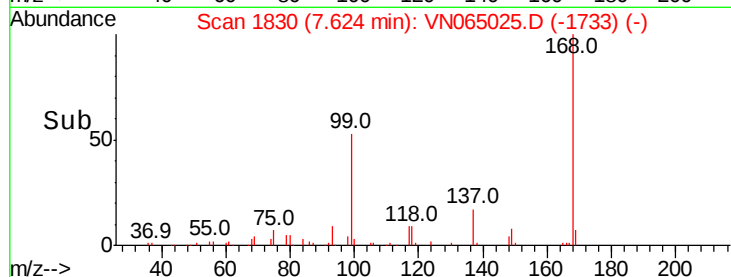
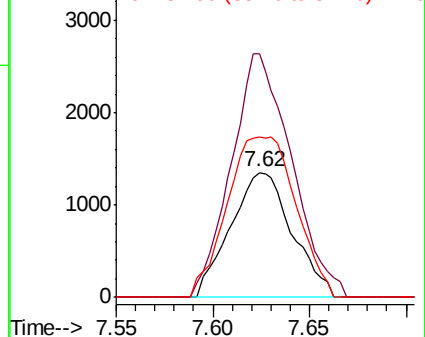
84 128.4 73.9 110.9#



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: 56.607 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065025.D

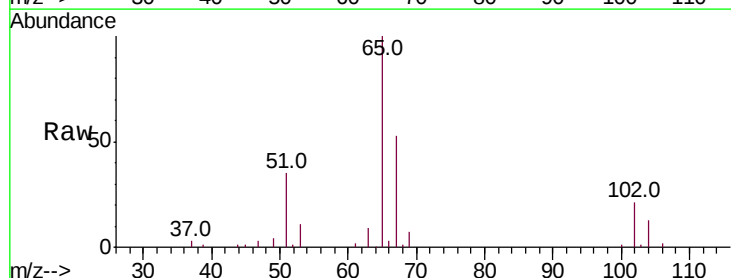
Acq: 9 Dec 2020 17:02

Tgt Ion: 65 Resp: 107173

Ion Ratio Lower Upper

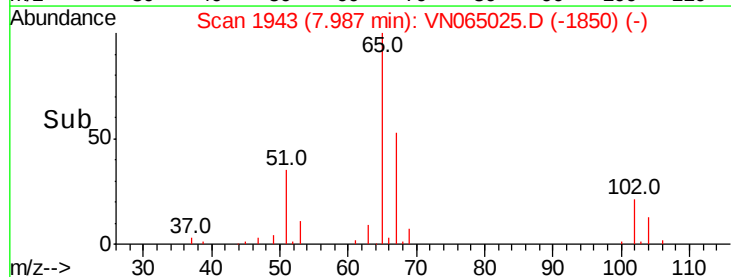
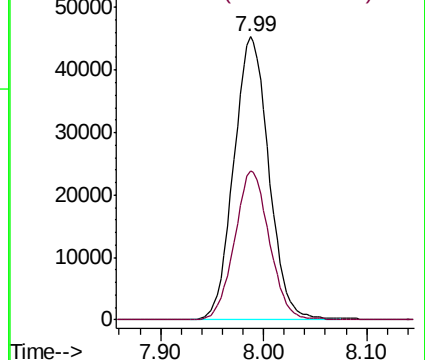
65 100

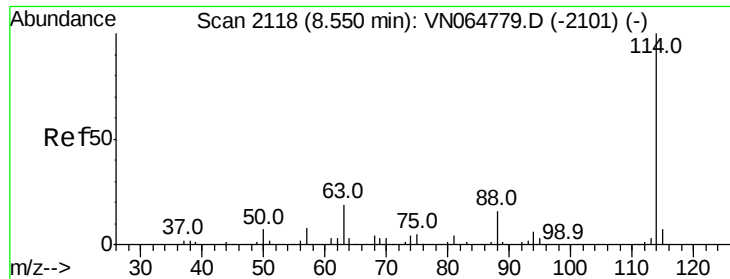
67 52.0 0.0 108.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

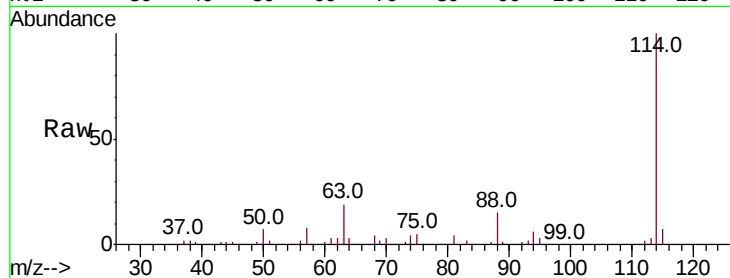




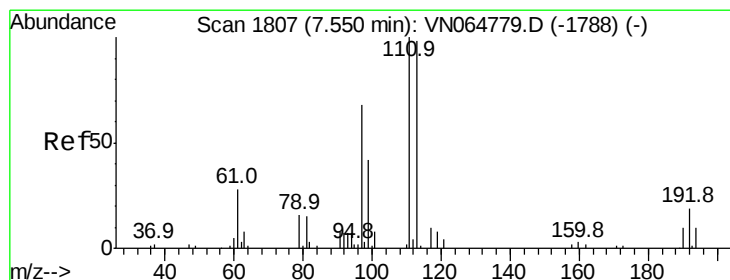
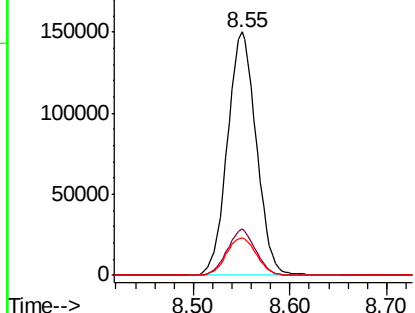
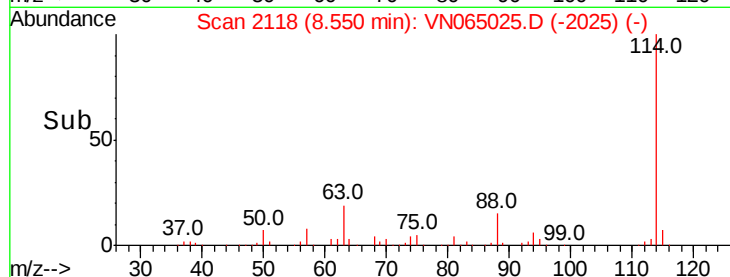
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065025.D
 Acq: 9 Dec 2020 17:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#06

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.9	0.0	38.6
88	15.4	0.0	32.6

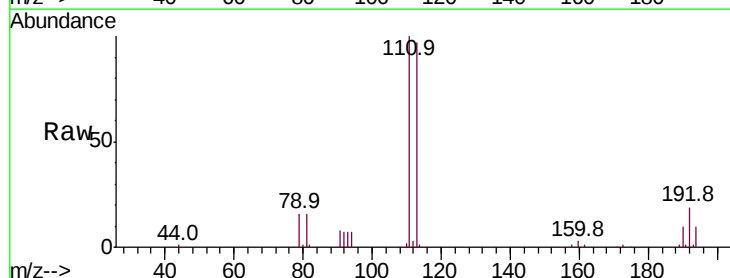


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

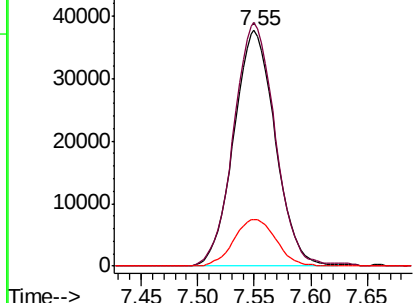
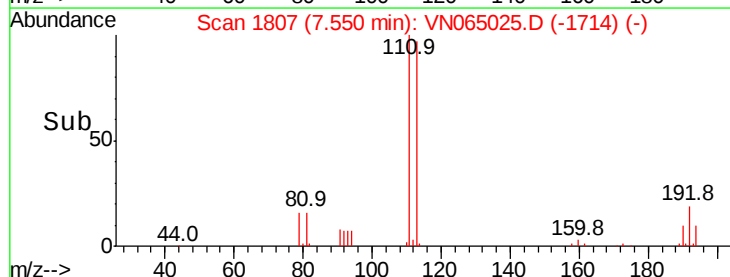


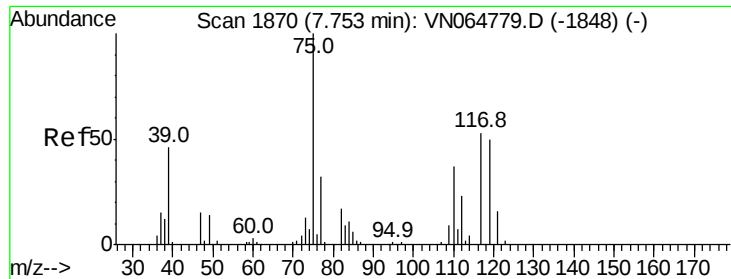
#35
 Dibromofluoromethane
 Concen: 51.616 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN065025.D
 Acq: 9 Dec 2020 17:02

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.6	122.4
192	20.2	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

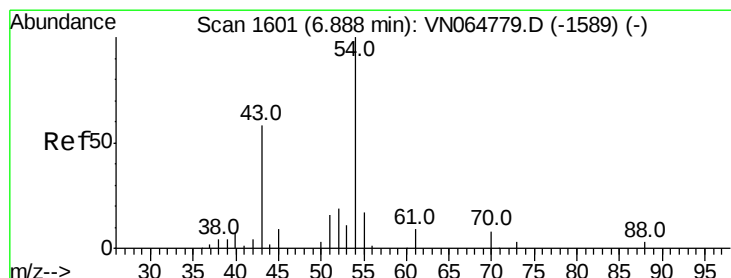
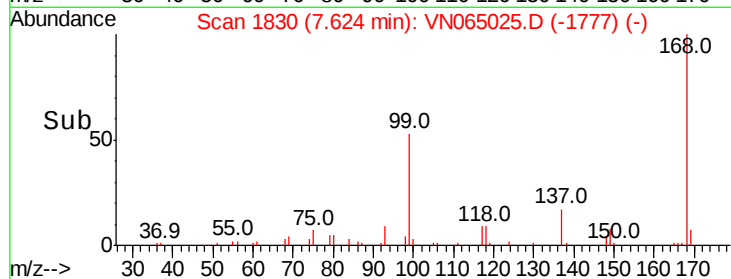
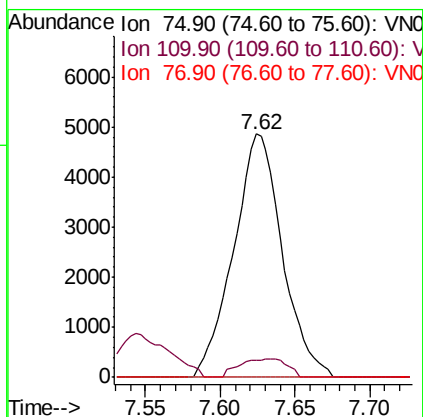
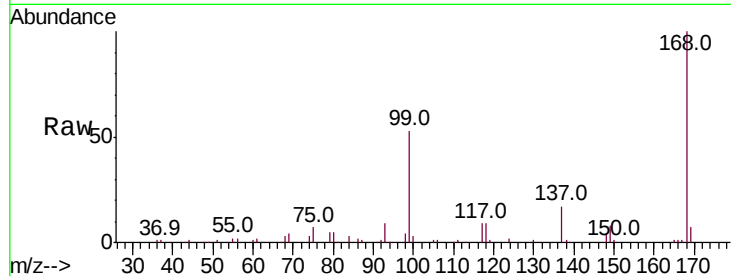




#36
 1,1-Dichloropropene
 Concen: 3.814 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN065025.D
 Acq: 9 Dec 2020 17:02

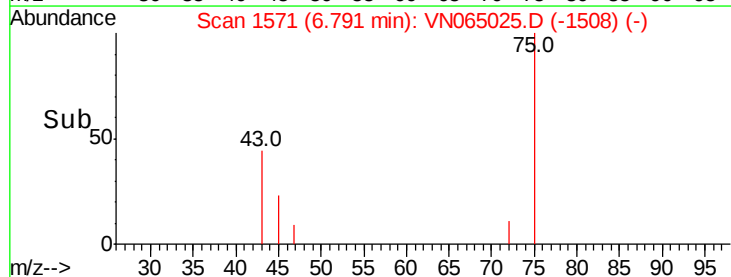
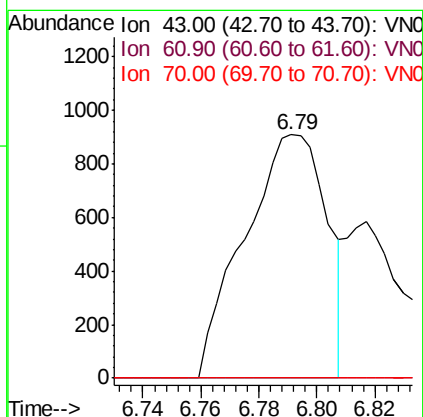
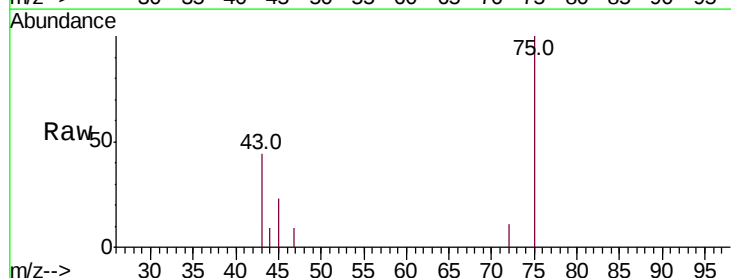
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#06

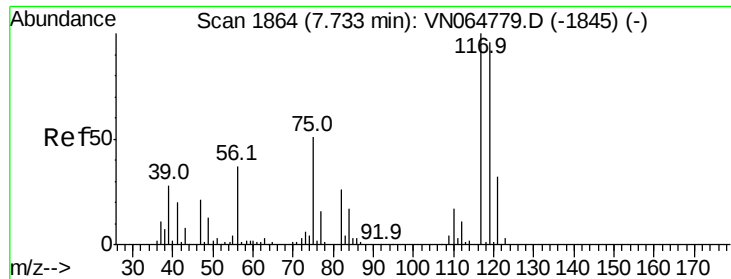
Tot Ion: 75 Resp: 11000
 Ion Ratio Lower Upper
 75 100
 110 7.4 17.8 53.3#
 77 0.0 25.0 37.4#



#37
 Ethyl Acetate
 Concen: 0.646 ug/l
 RT: 6.79 min Scan# 1571
 Delta R.T. -0.10 min
 Lab File: VN065025.D
 Acq: 9 Dec 2020 17:02

Tgt Ion: 43 Resp: 1795
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.8 19.2#
 70 0.0 8.8 13.2#





#38

Carbon Tetrachloride

Concen: 5.035 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#06

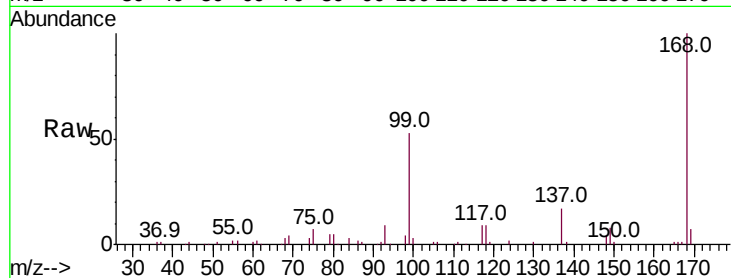
Tot Ion:117 Resp: 15108

Ion Ratio Lower Upper

117 100

119 7.4 76.7 115.1#

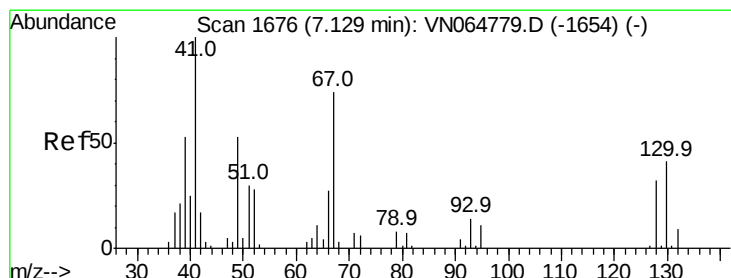
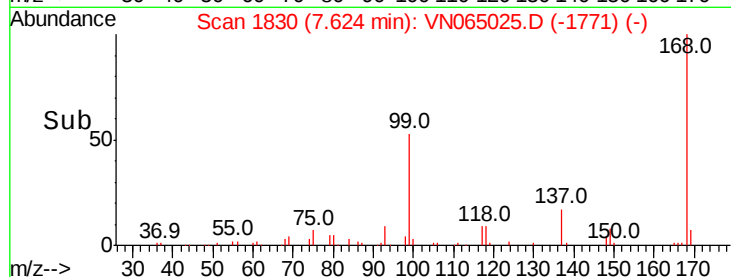
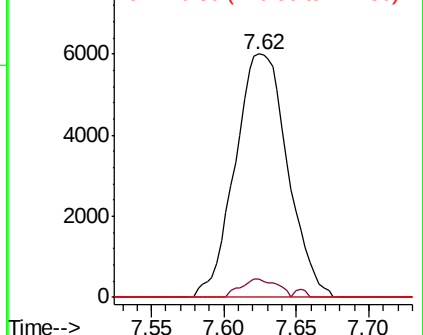
121 0.0 25.4 38.2#



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: 0.268 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.05 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Tgt Ion: 41 Resp: 344

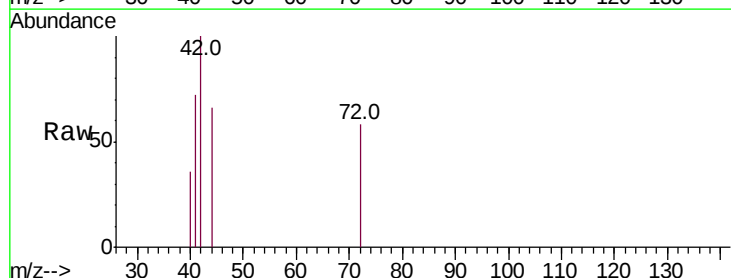
Ion Ratio Lower Upper

41 100

39 0.0 51.0 76.6#

67 0.0 79.8 119.8#

52 0.0 31.5 47.3#

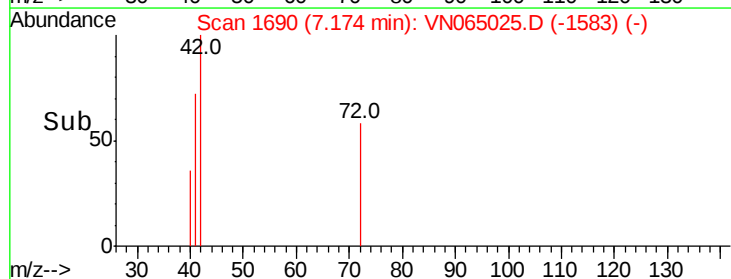
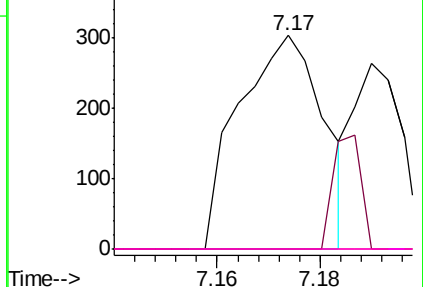


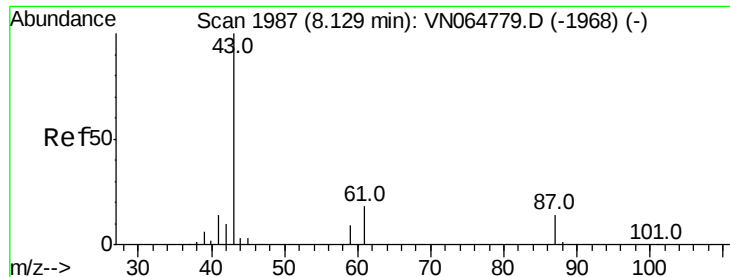
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 3.270 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#06

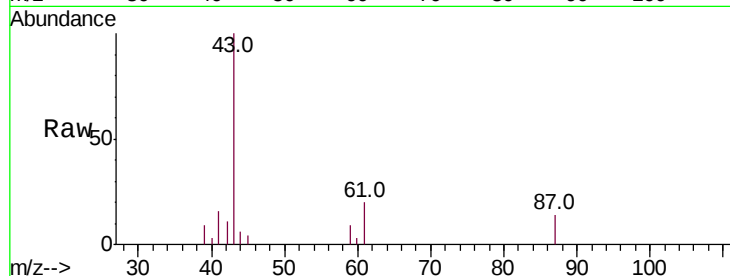
Tot Ion: 43 Resp: 14618

Ion Ratio Lower Upper

43 100

61 20.2 17.2 25.8

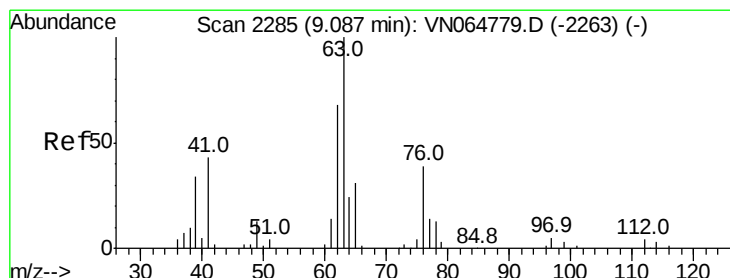
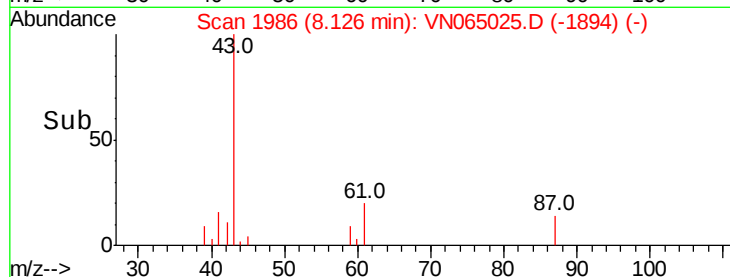
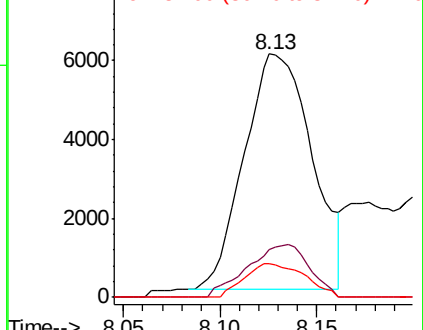
87 12.6 11.4 17.0



Abundance Ion 43.00 (42.70 to 43.70): VN064779.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN064779.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN064779.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.510 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN065025.D

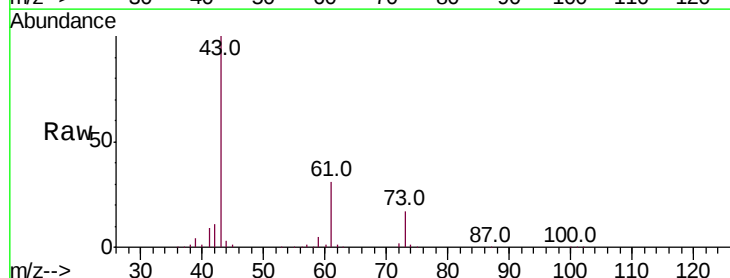
Acq: 9 Dec 2020 17:02

Tgt Ion: 63 Resp: 1167

Ion Ratio Lower Upper

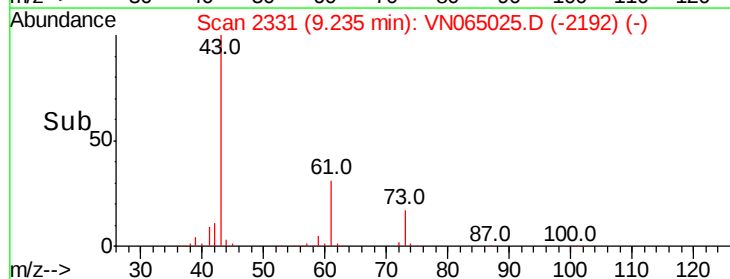
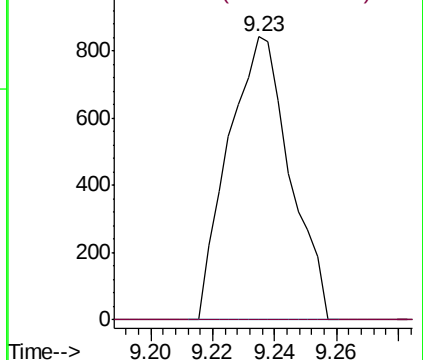
63 100

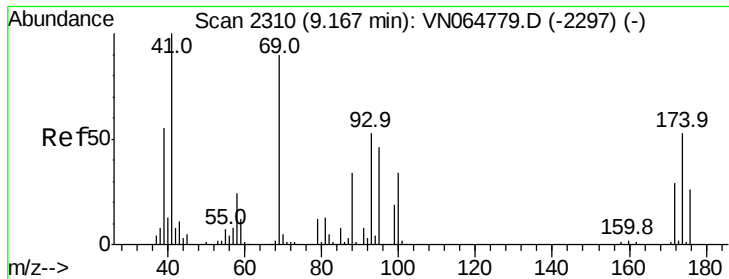
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN064779.D (-2263) (-)

Ion 64.90 (64.60 to 65.60): VN064779.D (-2263) (-)

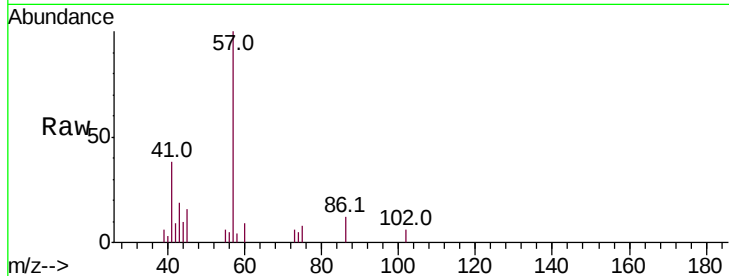




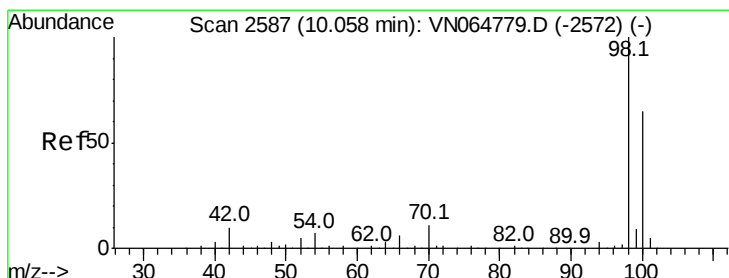
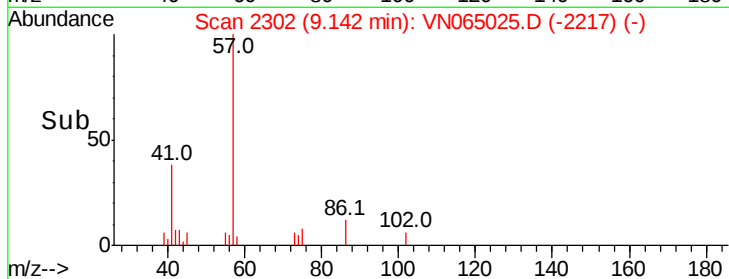
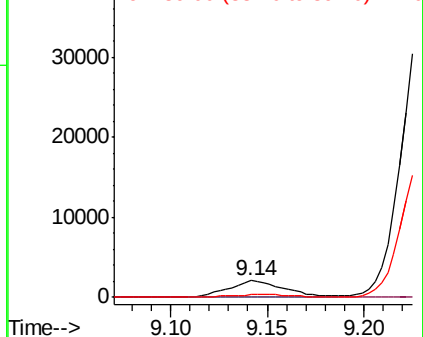
#48
Methvl methacrylate
Concen: 1.979 ug/l
RT: 9.14 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN065025.D
Acq: 9 Dec 2020 17:02

Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#06

Tot Ion: 41 Resp: 4228
Ion Ratio Lower Upper
41 100
69 0.0 71.8 107.8#
39 0.0 44.1 66.1#

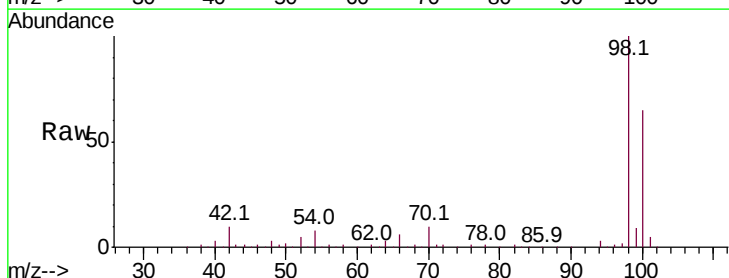


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

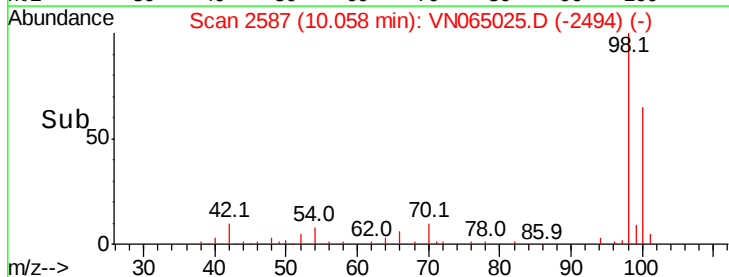
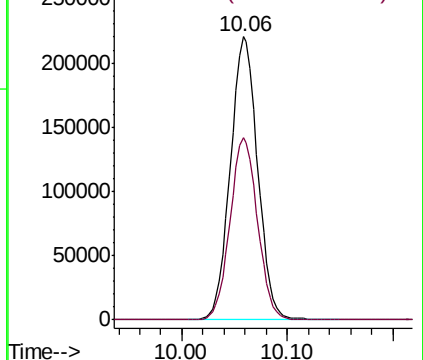


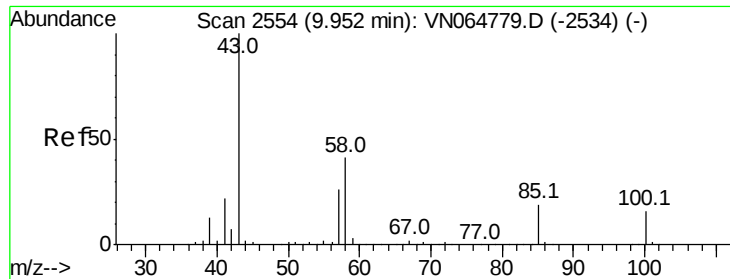
#50
Toluene-d8
Concen: 51.838 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065025.D
Acq: 9 Dec 2020 17:02

Tgt Ion: 98 Resp: 394317
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5



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





#51

4-Methyl-2-Pentanone

Concen: 1.348 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

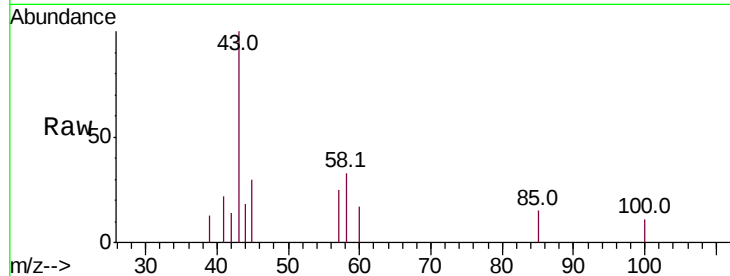
PB133472ZHE#06

Tot Ion: 43 Resp: 3617

Ion Ratio Lower Upper

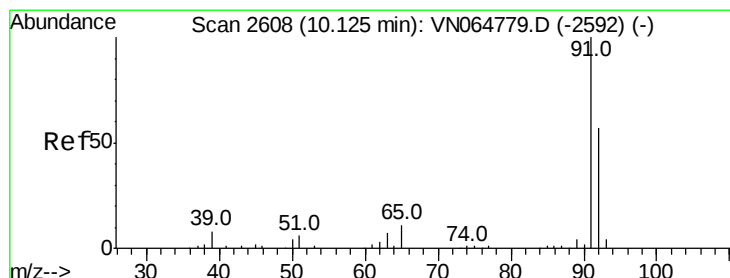
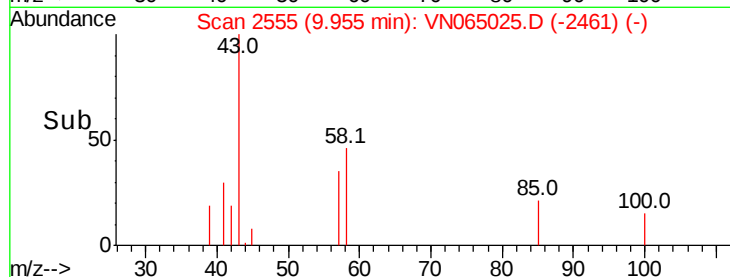
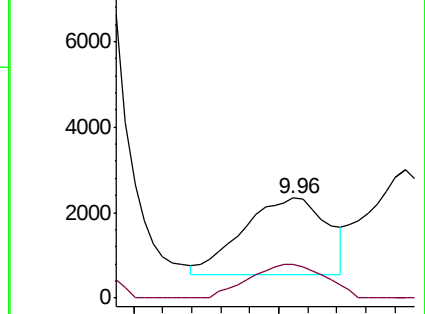
43 100

58 39.9 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) (-)



#52

Toluene

Concen: 0.282 ug/l

RT: 10.13 min Scan# 2609

Delta R.T. 0.00 min

Lab File: VN065025.D

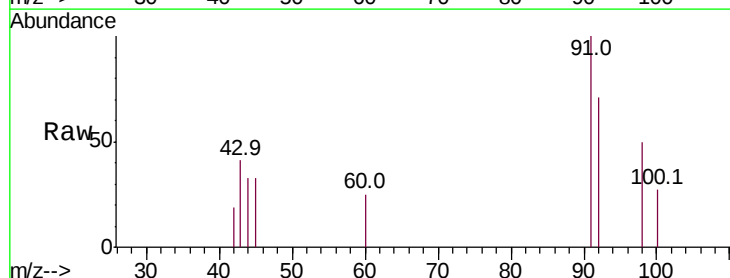
Acq: 9 Dec 2020 17:02

Tgt Ion: 92 Resp: 1532

Ion Ratio Lower Upper

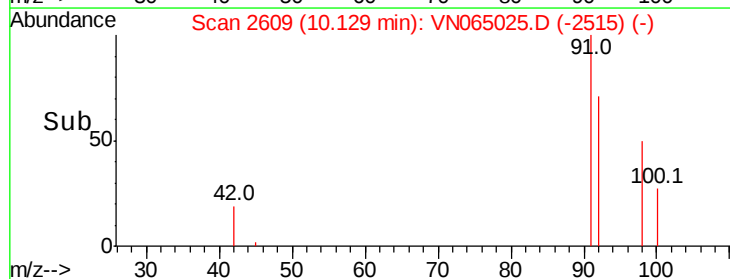
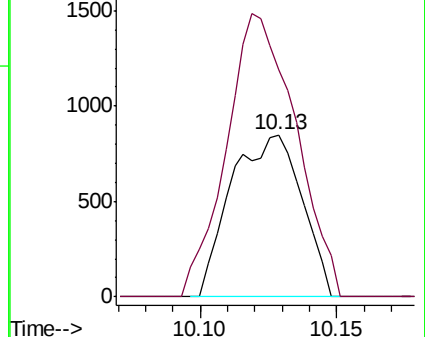
92 100

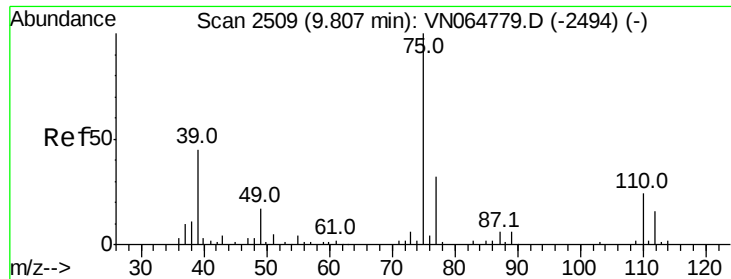
91 170.7 139.1 208.7



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: 7.637 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#06

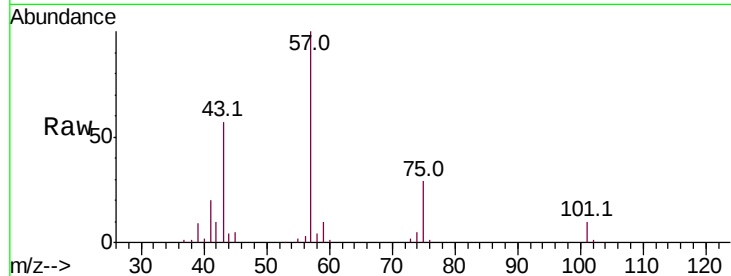
Tot Ion: 75 Resp: 28046

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

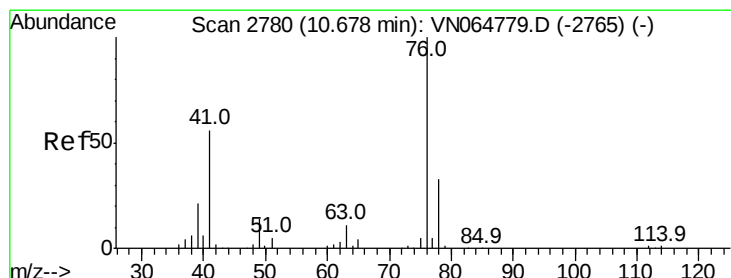
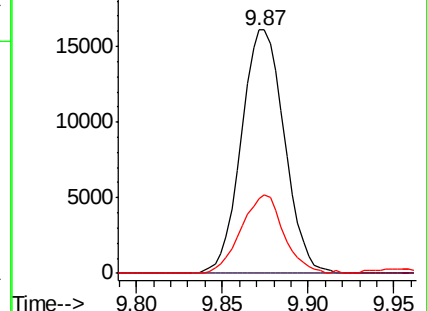
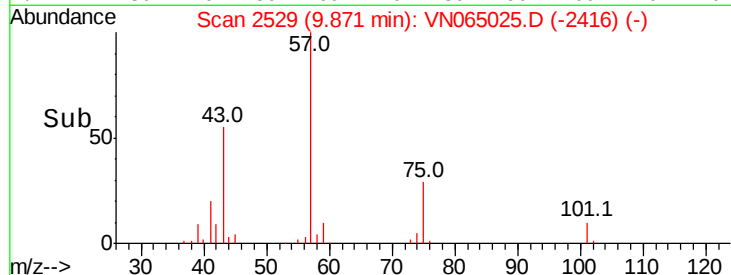
39 30.8 35.6 53.4#



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: 4.754 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065025.D

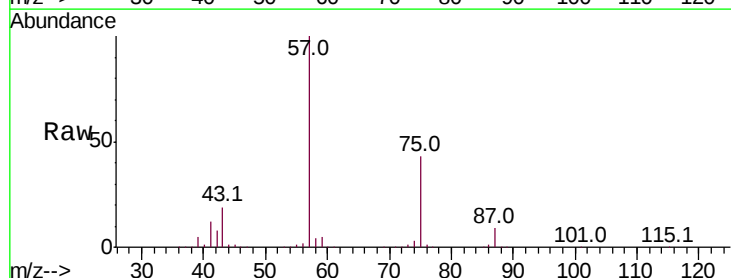
Acq: 9 Dec 2020 17:02

Tgt Ion: 76 Resp: 17550

Ion Ratio Lower Upper

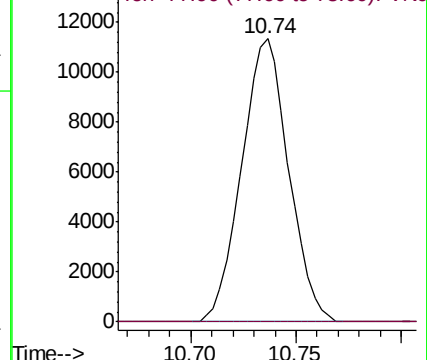
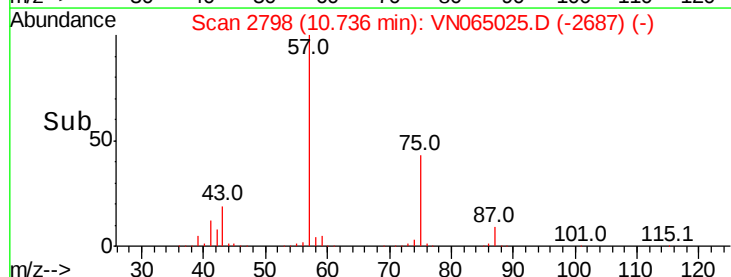
76 100

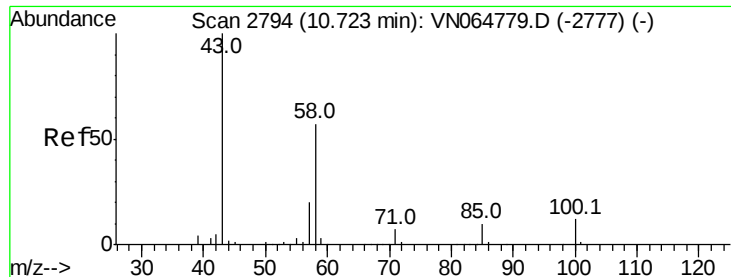
78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

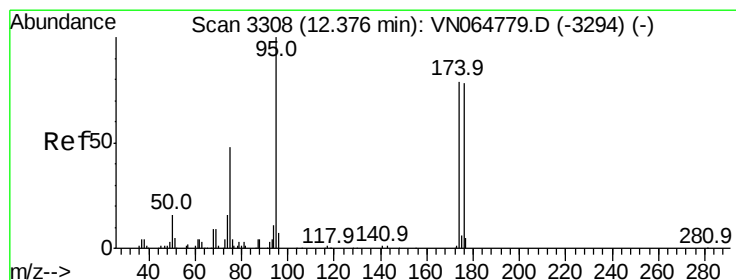
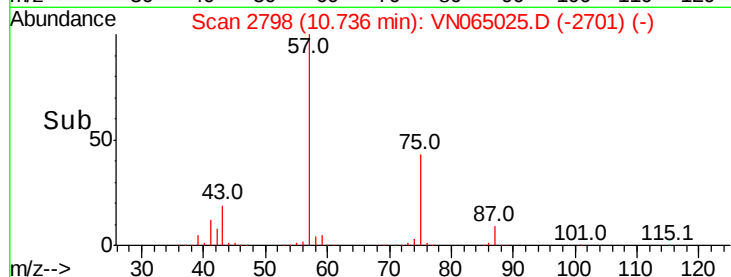
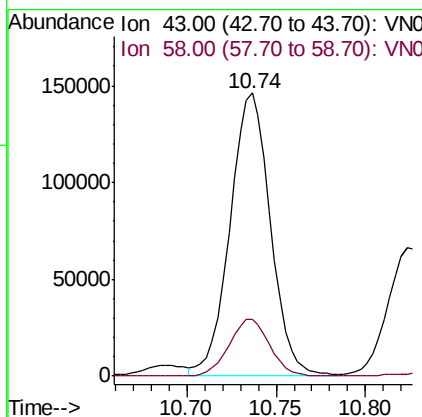
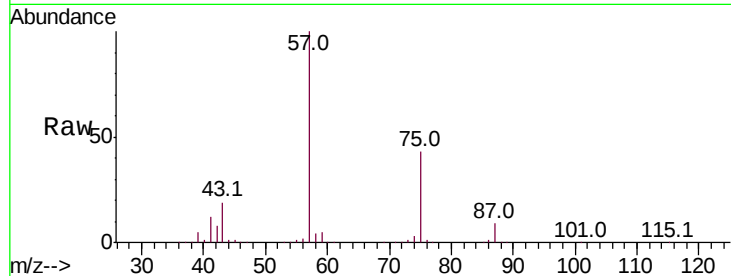




#59
2-Hexanone
Concen: 118.737 ug/l
RT: 10.74 min Scan# 2798
Delta R.T. 0.01 min
Lab File: VN065025.D
Acq: 9 Dec 2020 17:02

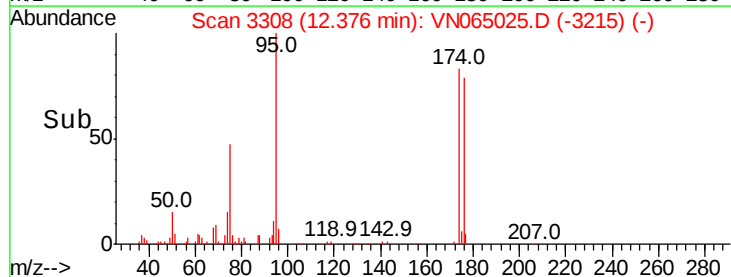
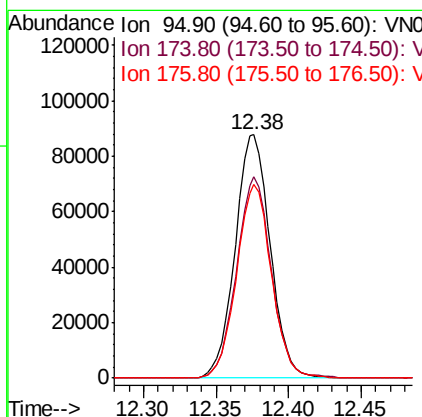
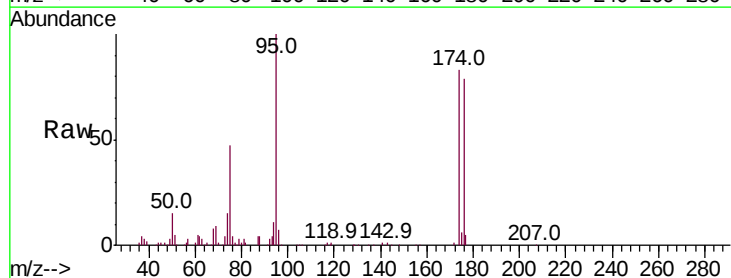
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#06

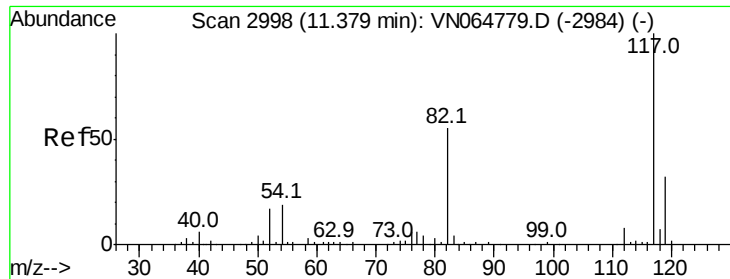
Tot Ion: 43 Resp: 229317
Ion Ratio Lower Upper
43 100
58 20.3 28.3 84.9#



#62
4-Bromofluorobenzene
Concen: 54.239 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065025.D
Acq: 9 Dec 2020 17:02

Tgt Ion: 95 Resp: 147653
Ion Ratio Lower Upper
95 100
174 81.9 0.0 160.4
176 79.2 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: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#06

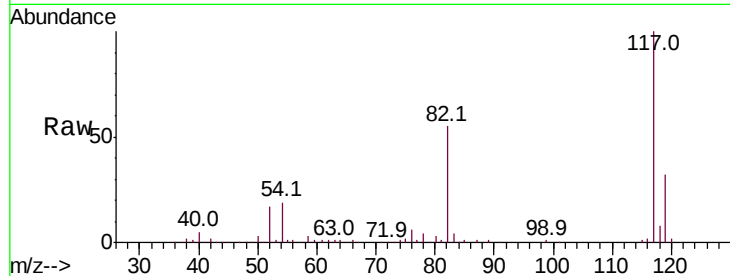
Tot Ion:117 Resp: 329849

Ion Ratio Lower Upper

117 100

82 54.7 44.2 66.2

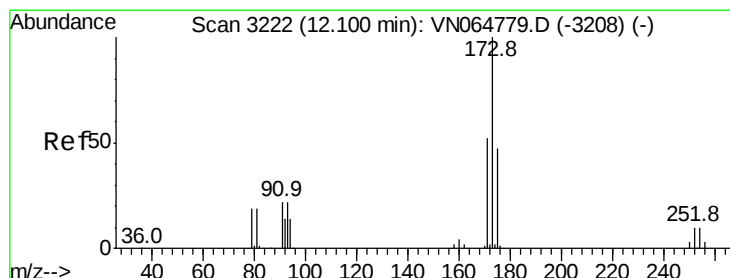
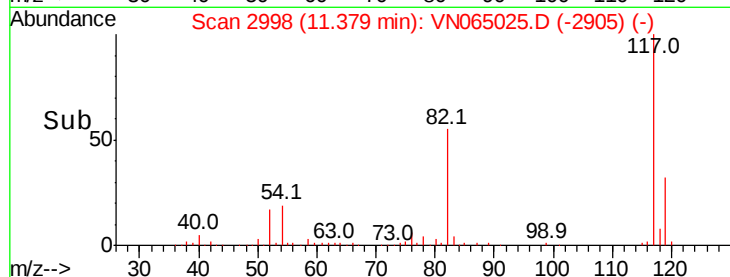
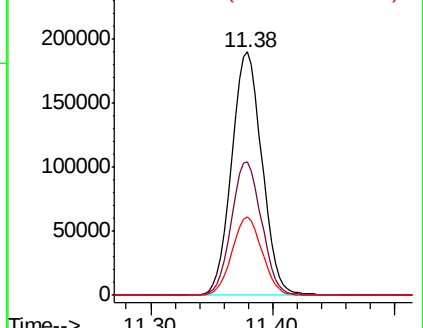
119 32.0 25.8 38.6



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



#71

Bromoform

Concen: 0.239 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

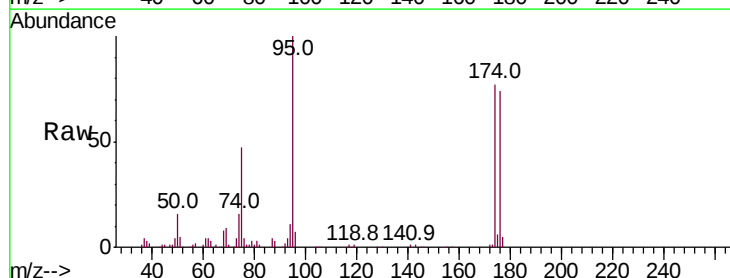
Tgt Ion:173 Resp: 496

Ion Ratio Lower Upper

173 100

175 1459.7 24.3 72.8#

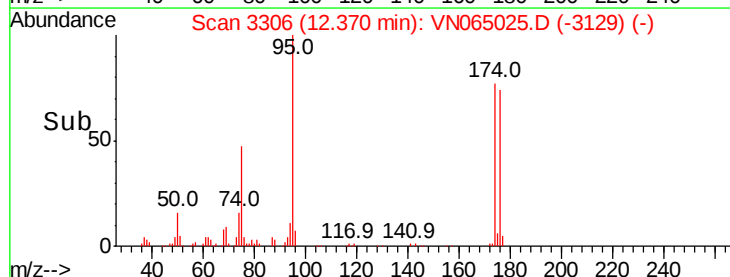
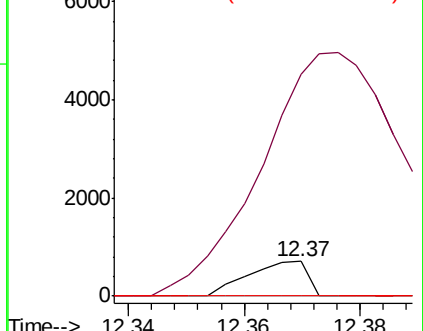
254 0.0 0.0 0.0

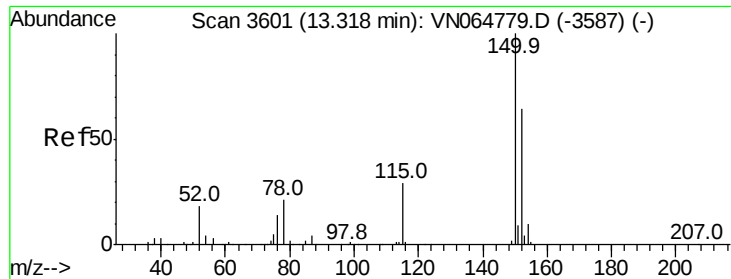


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. -0.00 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#06

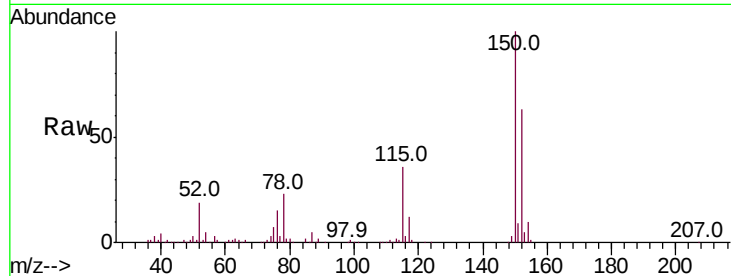
Tot Ion:152 Resp: 137070

Ion Ratio Lower Upper

152 100

115 58.2 29.7 89.1

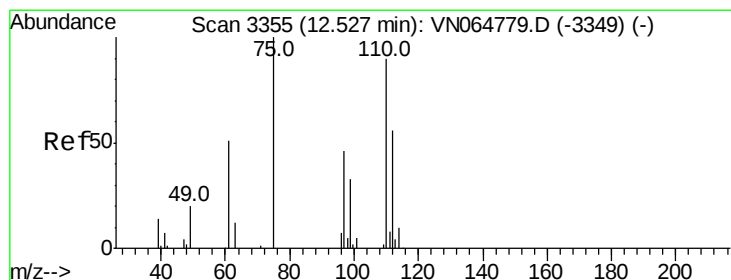
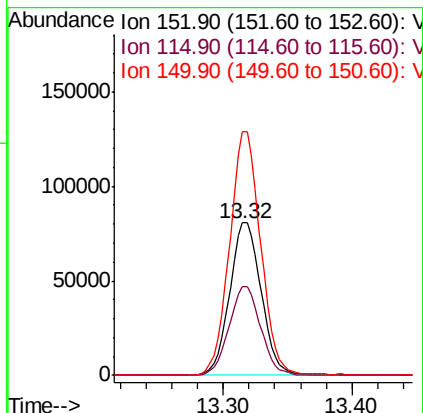
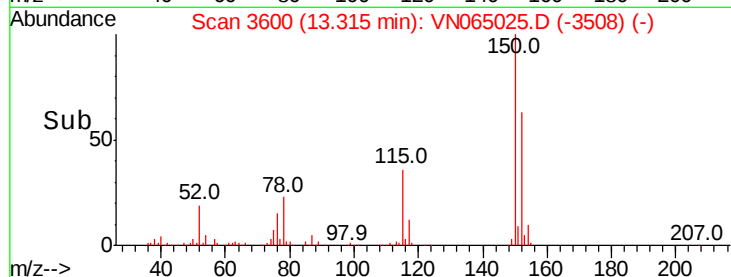
150 156.9 0.0 350.6



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: 23.679 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065025.D

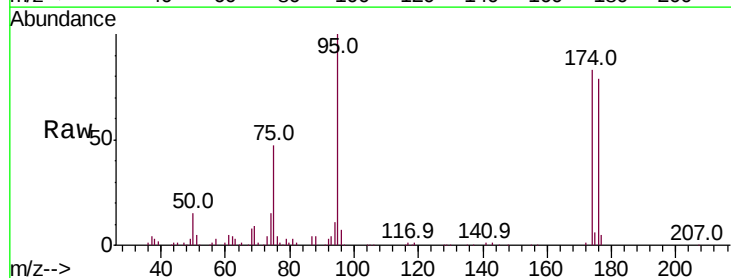
Acq: 9 Dec 2020 17:02

Tgt Ion: 75 Resp: 69899

Ion Ratio Lower Upper

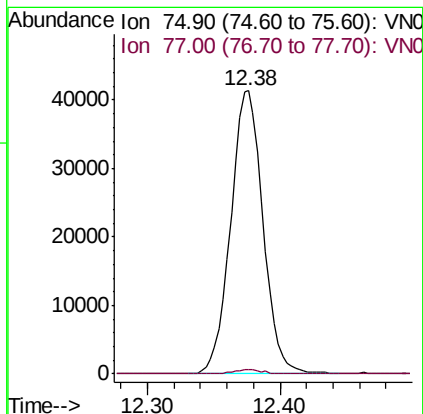
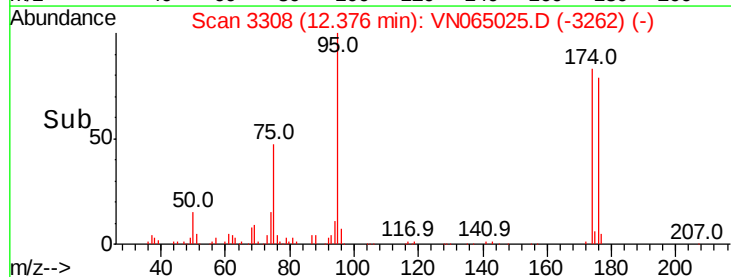
75 100

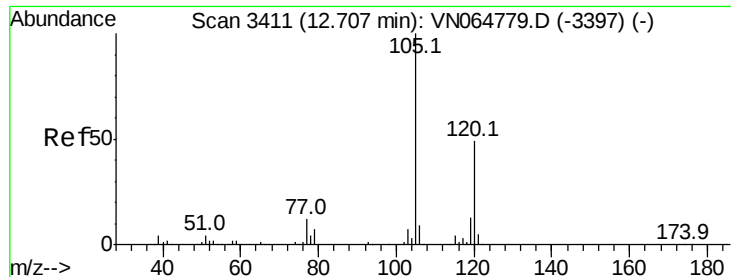
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.266 ug/l

RT: 12.70 min Scan# 3410

Delta R.T. -0.00 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

Instrument :

MSVOA_N

ClientSampleId :

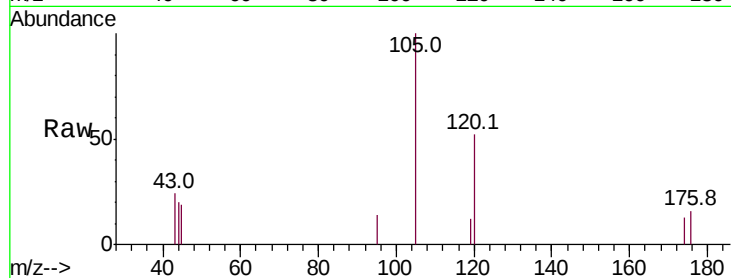
PB133472ZHE#06

Tot Ion:105 Resp: 2106

Ion Ratio Lower Upper

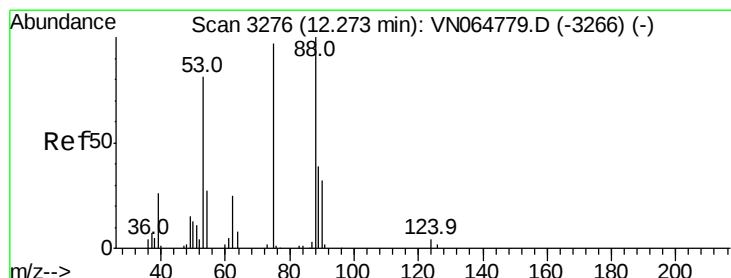
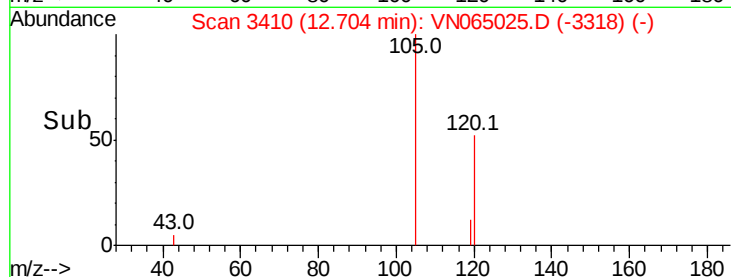
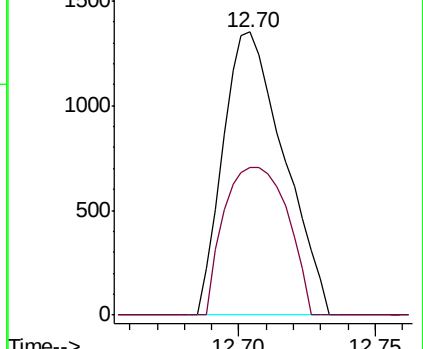
105 100

120 54.3 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: 64.899 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065025.D

Acq: 9 Dec 2020 17:02

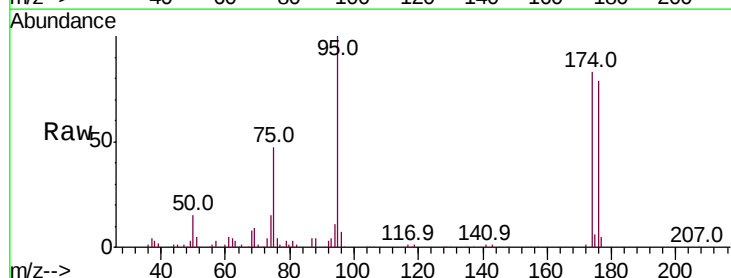
Tgt Ion: 75 Resp: 69899

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

