

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065015.D
 Acq On : 9 Dec 2020 13:01
 Operator : JC/MD
 Sample : PB133472TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472TB

Quant Time: Dec 10 04:07:20 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	167828	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	312769	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	341159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	143365	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.98	65	108646	55.68	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	111.36%
35) Dibromofluoromethane	7.55	113	100132	53.50	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	107.00%
50) Toluene-d8	10.06	98	410397	53.67	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	107.34%
62) 4-Bromofluorobenzene	12.38	95	152581	55.75	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	111.50%

Target Compounds

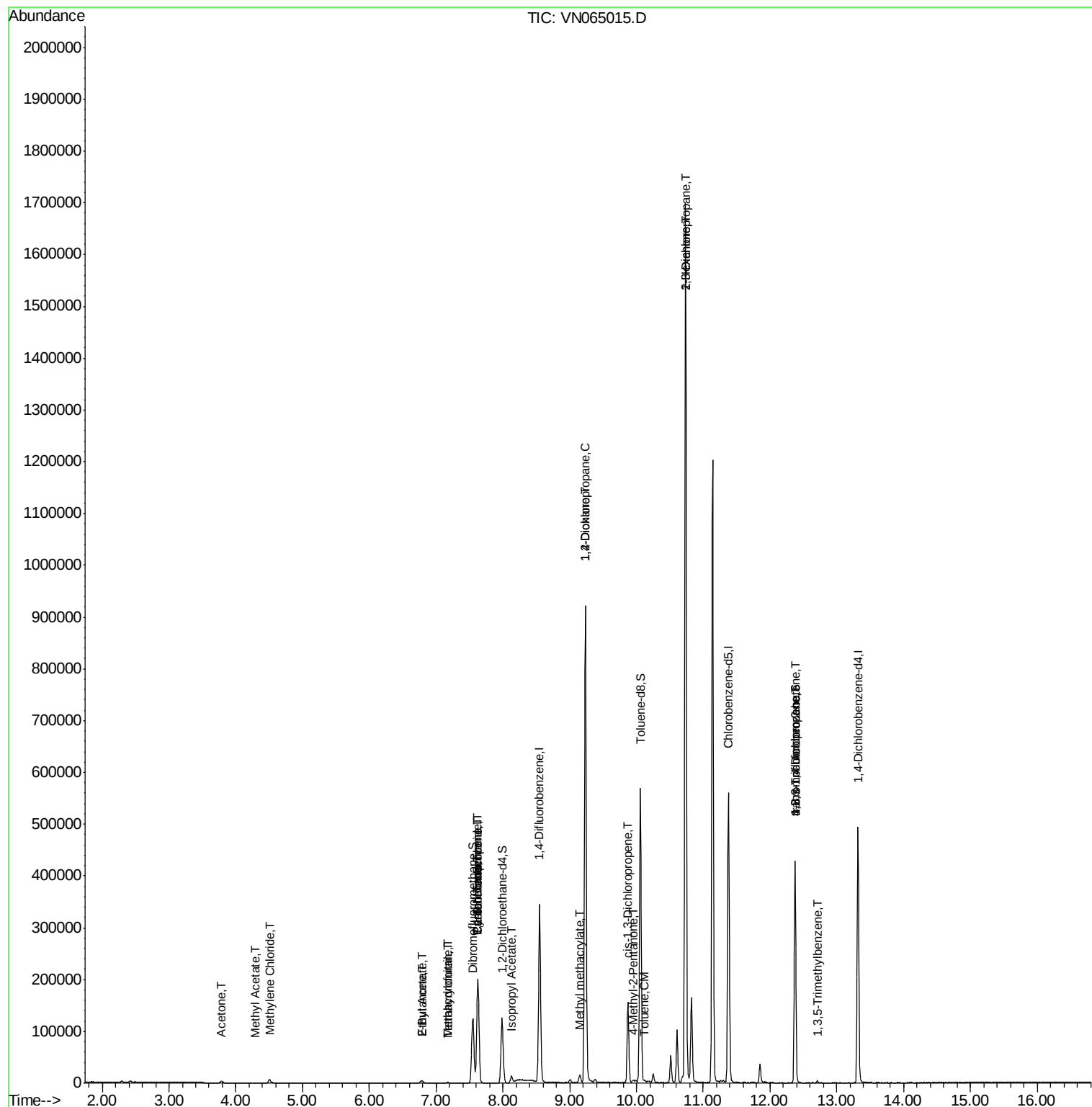
					Qvalue	
16) Acetone	3.78	43	6261	9.762	ug/l	98
18) Methyl Acetate	4.28	43	446	0.231	ug/l #	63
20) Methylene Chloride	4.50	84	5000	2.488	ug/l	96
25) 2-Butanone	6.80	43	2879	2.769	ug/l	93
29) Tetrahydrofuran	7.18	42	1062	1.480	ug/l #	64
31) Cyclohexane	7.63	56	2743	1.009	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11691	4.033	ug/l #	49
37) Ethyl Acetate	6.80	43	2879	1.031	ug/l #	67
38) Carbon Tetrachloride	7.62	117	16240	5.384	ug/l #	18
41) Methacrylonitrile	7.17	41	359	0.279	ug/l #	13
43) Isopropyl Acetate	8.13	43	15986	3.558	ug/l	95
45) 1,2-Dichloropropane	9.23	63	1272	0.553	ug/l #	43
48) Methyl methacrylate	9.15	41	3610	1.681	ug/l #	12
49) 1,4-Dioxane	9.23	88	103	2.538	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	3725	1.381	ug/l	90
52) Toluene	10.13	92	1677	0.307	ug/l	87
54) cis-1,3-Dichloropropene	9.87	75	29757	8.060	ug/l #	64
57) 1,3-Dichloropropane	10.73	76	18067	4.868	ug/l #	42
59) 2-Hexanone	10.73	43	230671	118.811	ug/l #	51
76) 1,2,3-Trichloropropane	12.38	75	72403	23.450	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	2425	0.293	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	72403	64.272	ug/l #	15

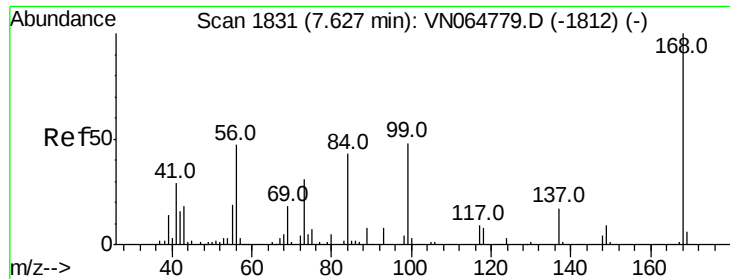
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

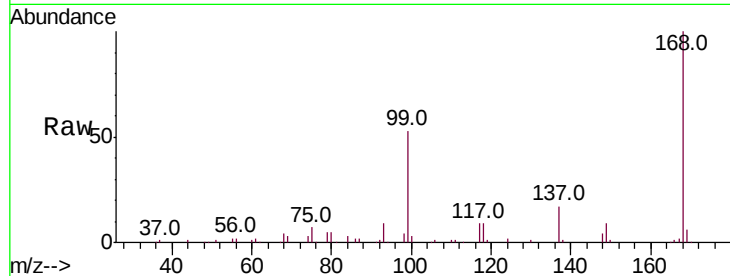
PB133472TB

Tot Ion:168 Resp: 167828

Ion Ratio Lower Upper

168 100

99 53.3 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

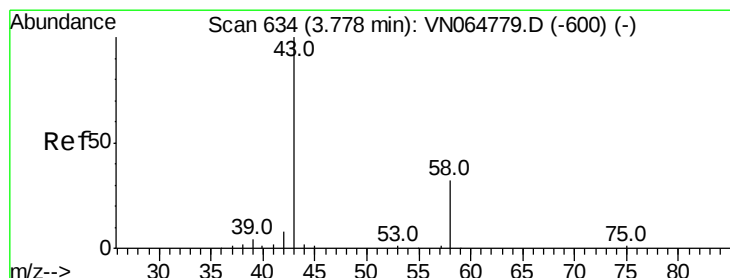
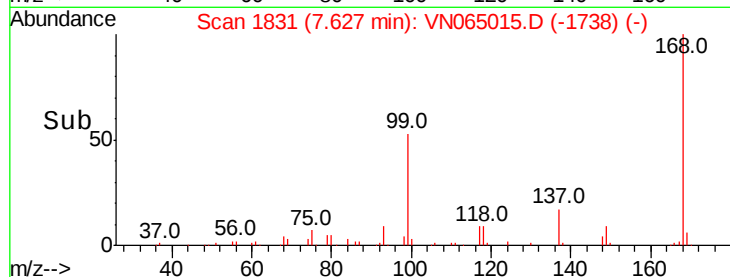
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 9.762 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN065015.D

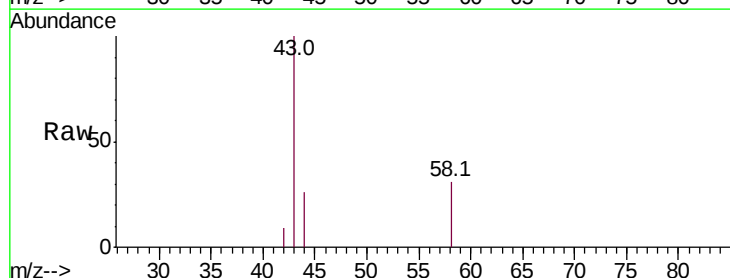
Acq: 9 Dec 2020 13:01

Tgt Ion: 43 Resp: 6261

Ion Ratio Lower Upper

43 100

58 31.2 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

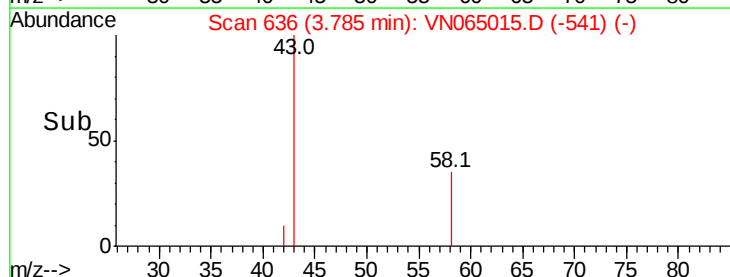
1500

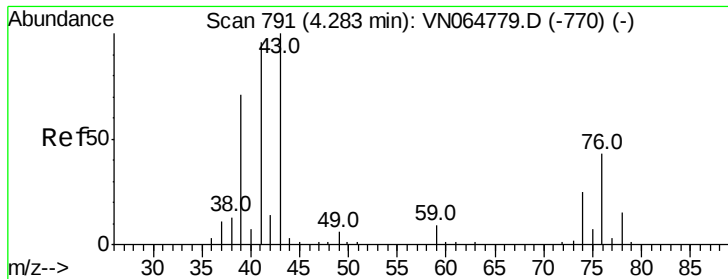
1000

500

0

Time--> 3.70 3.75 3.80 3.85

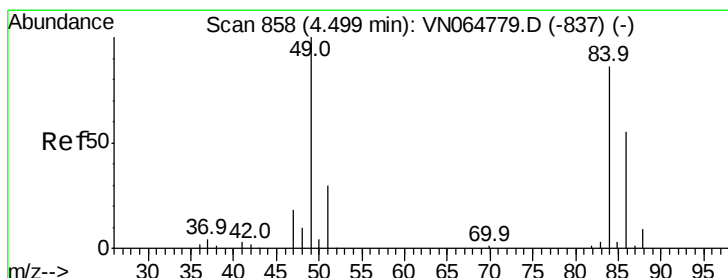
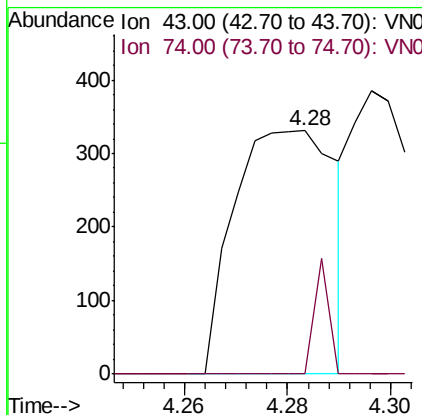
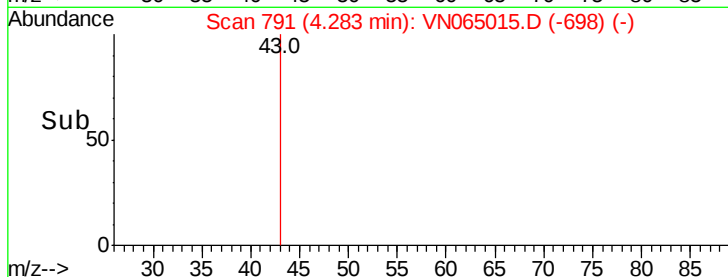
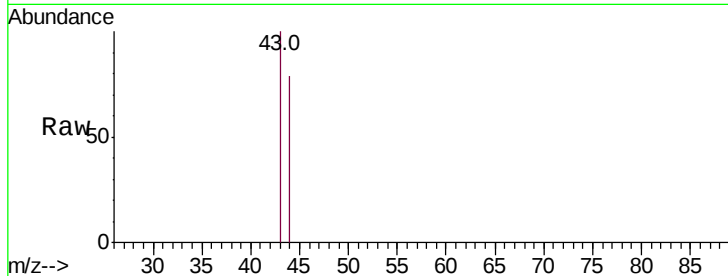




#18
Methyl Acetate
Concen: 0.231 ug/l
RT: 4.28 min Scan# 791
Delta R.T. 0.00 min
Lab File: VN065015.D
Acq: 9 Dec 2020 13:01

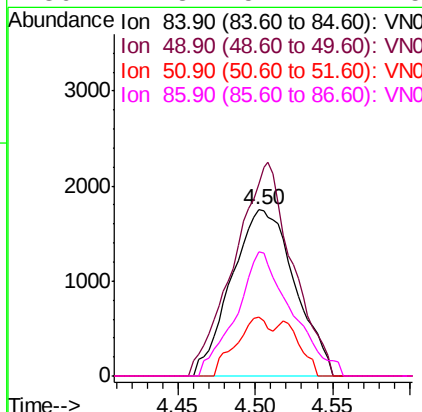
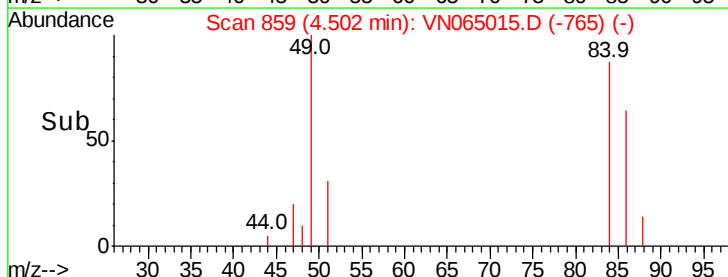
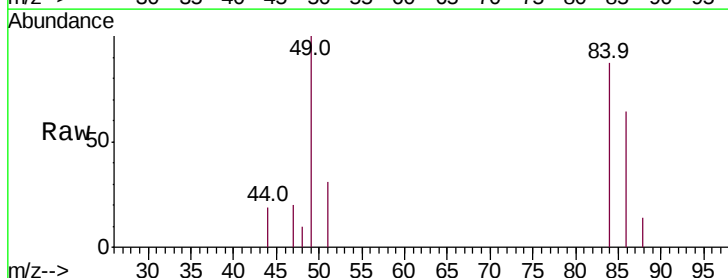
Instrument :
MSVOA_N
ClientSampleId :
PB133472TB

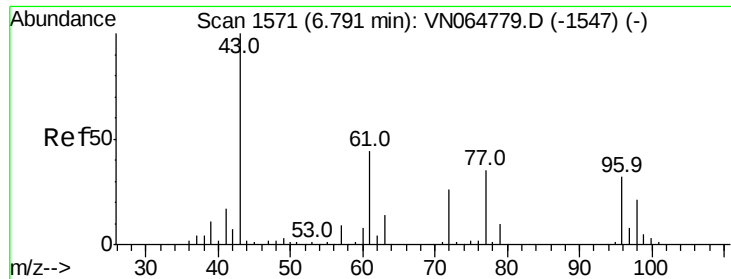
Tot Ion: 43 Resp: 446
Ion Ratio Lower Upper
43 100
74 6.7 20.2 30.2#



#20
Methylene Chloride
Concen: 2.488 ug/l
RT: 4.50 min Scan# 859
Delta R.T. 0.00 min
Lab File: VN065015.D
Acq: 9 Dec 2020 13:01

Tgt Ion: 84 Resp: 5000
Ion Ratio Lower Upper
84 100
49 115.4 93.4 140.0
51 35.5 28.2 42.4
86 74.3 51.7 77.5





#25

2-Butanone

Concen: 2.769 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

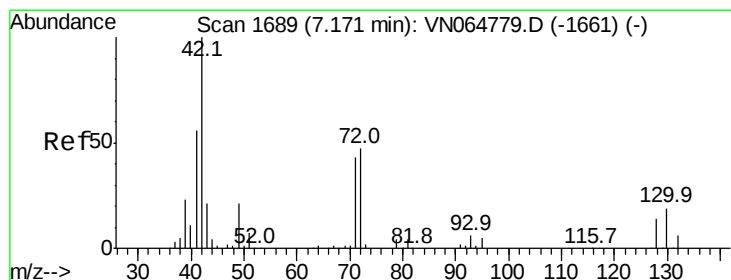
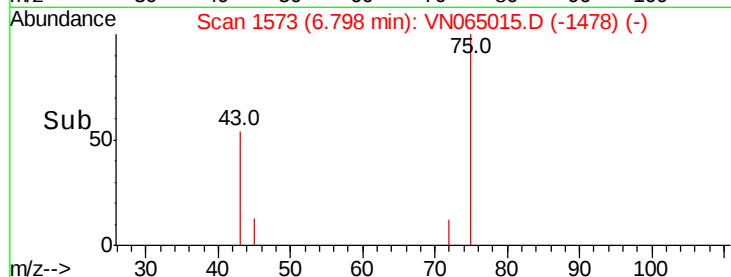
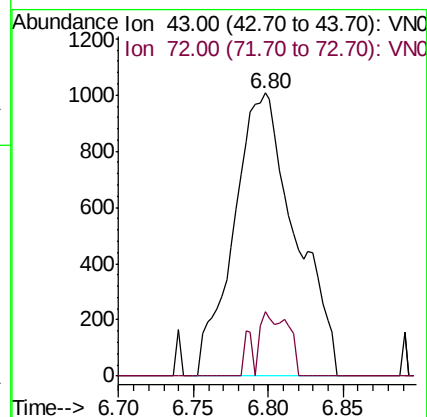
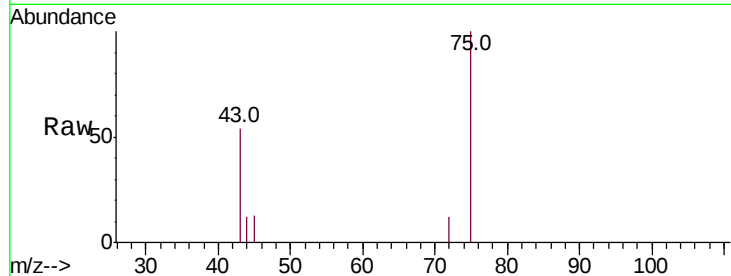
PB133472TB

Tot Ion: 43 Resp: 2879

Ion Ratio Lower Upper

43 100

72 22.7 21.0 31.6



#29

Tetrahydrofuran

Concen: 1.480 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

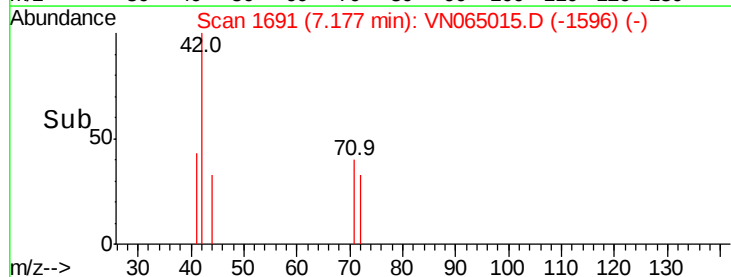
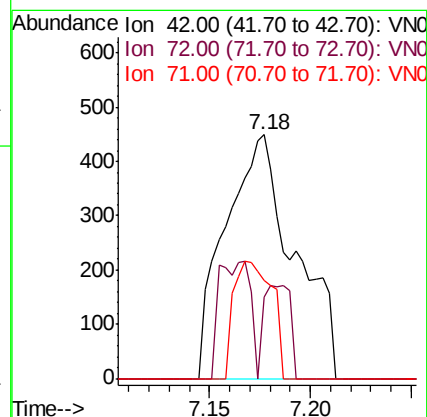
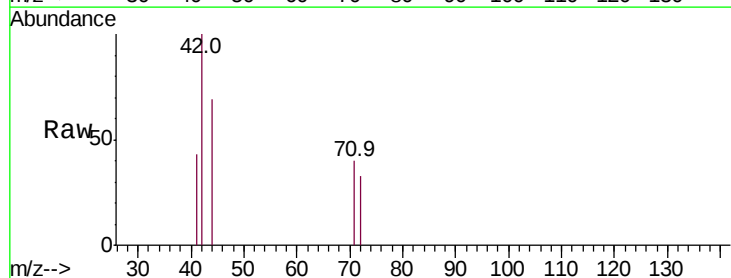
Tgt Ion: 42 Resp: 1062

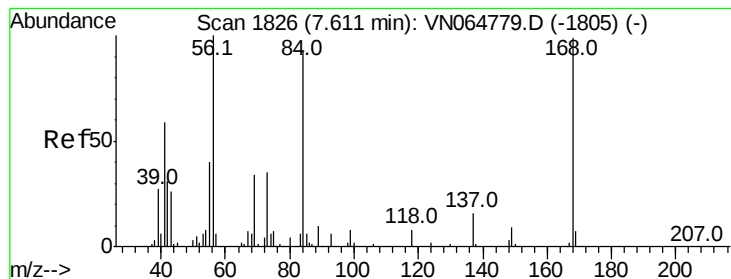
Ion Ratio Lower Upper

42 100

72 15.0 36.6 54.8#

71 27.0 33.6 50.4#





#31

Cyclohexane

Concen: 1.009 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.02 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB133472TB

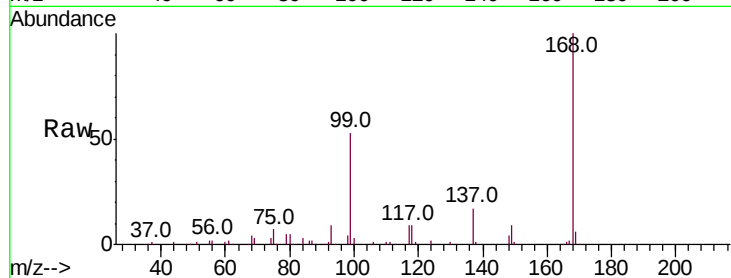
Tot Ion: 56 Resp: 2743

Ion Ratio Lower Upper

56 100

69 180.2 27.5 41.3#

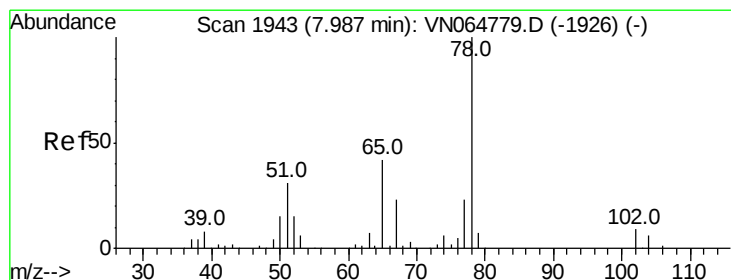
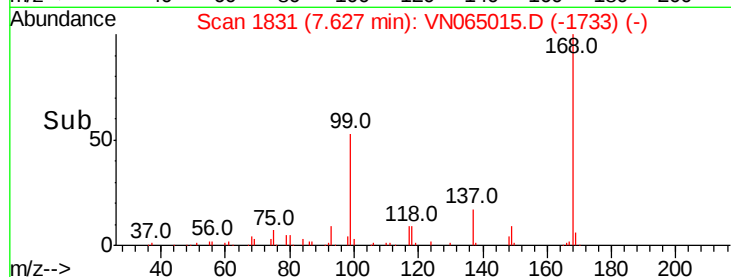
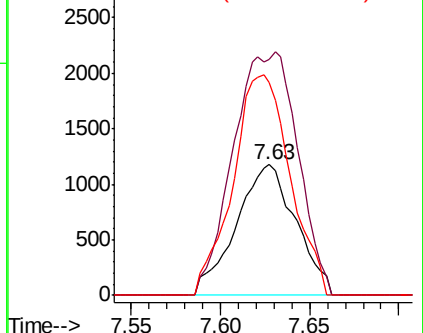
84 162.8 73.9 110.9#



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: 55.684 ug/l

RT: 7.98 min Scan# 1942

Delta R.T. -0.00 min

Lab File: VN065015.D

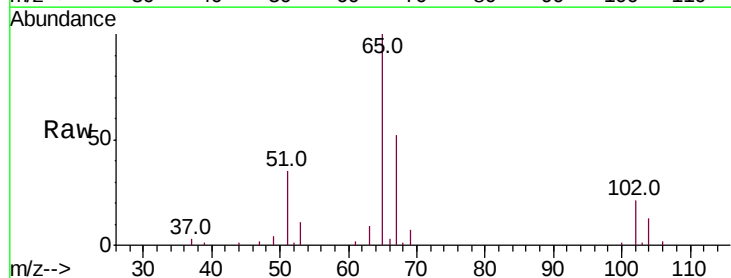
Acq: 9 Dec 2020 13:01

Tgt Ion: 65 Resp: 108646

Ion Ratio Lower Upper

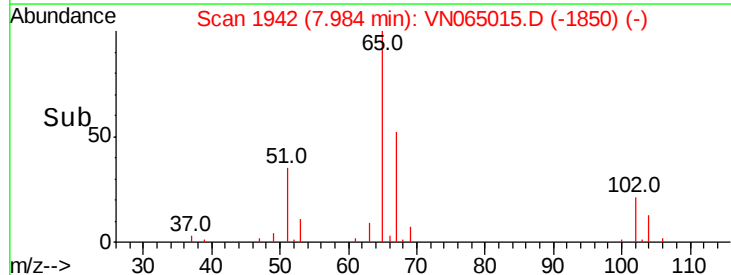
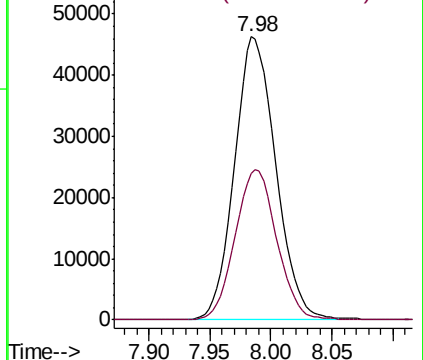
65 100

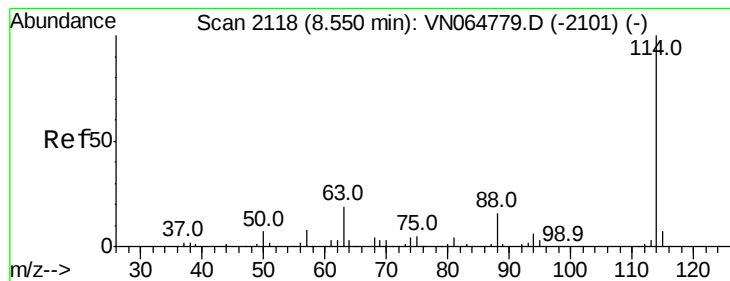
67 53.4 0.0 108.2



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: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

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ClientSampleId :

PB133472TB

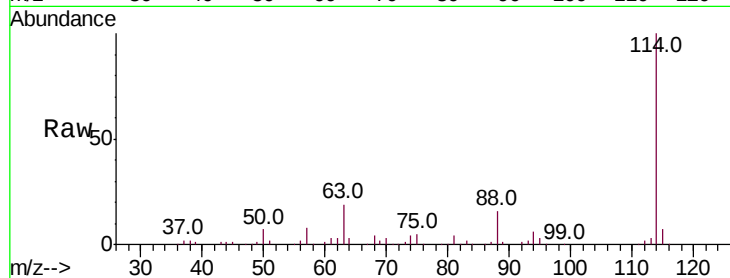
Tot Ion:114 Resp: 312769

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

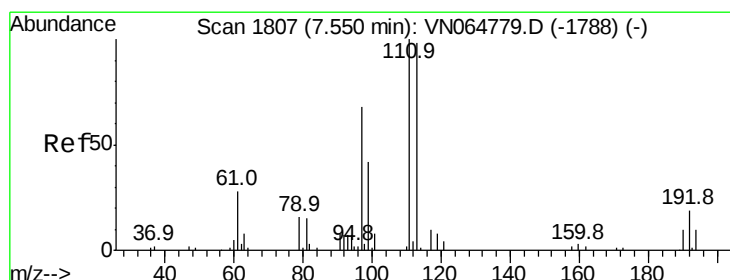
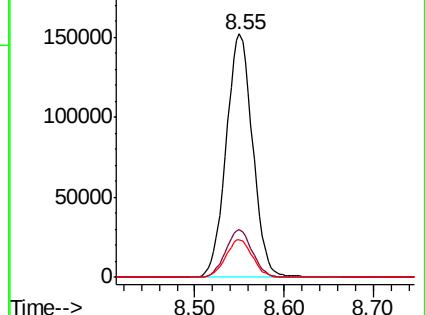
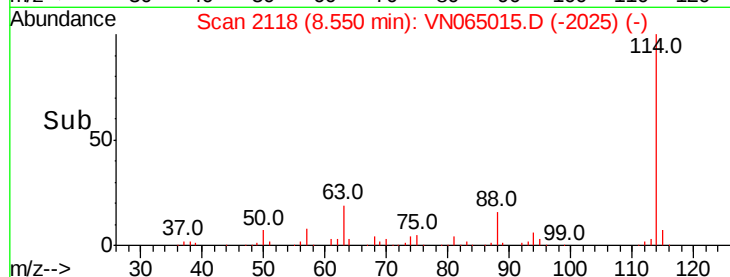
88 15.6 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 53.503 ug/l

RT: 7.55 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

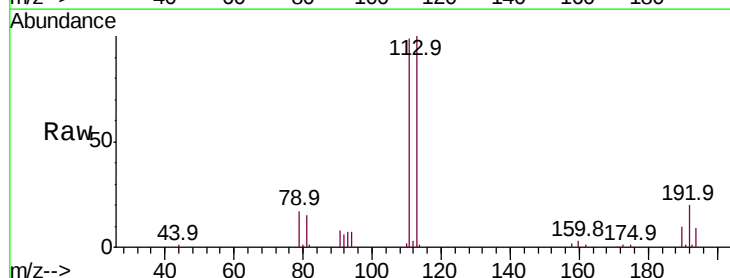
Tgt Ion:113 Resp: 100132

Ion Ratio Lower Upper

113 100

111 101.7 81.6 122.4

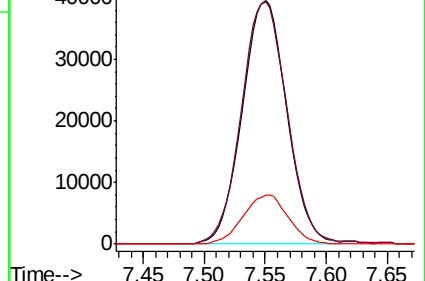
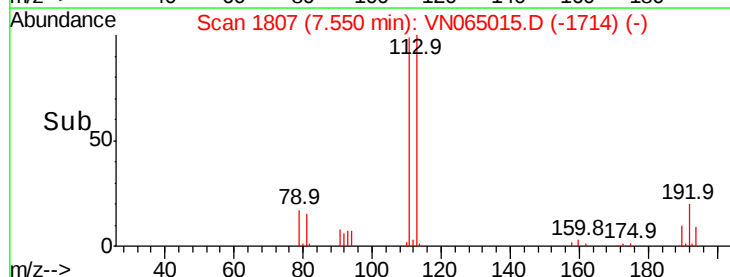
192 20.3 16.2 24.2

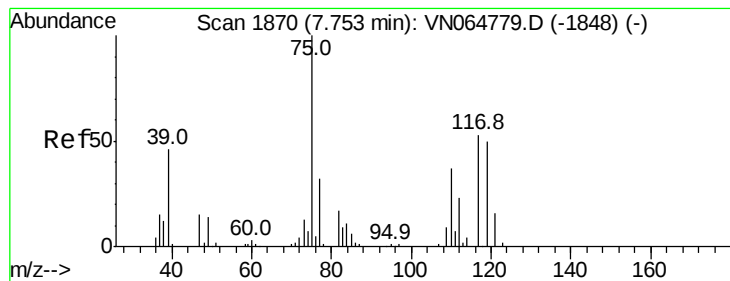


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.033 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.13 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

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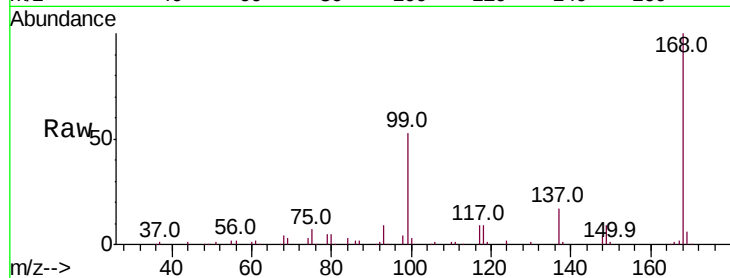
Tot Ion: 75 Resp: 11691

Ion Ratio Lower Upper

75 100

110 8.5 17.8 53.3#

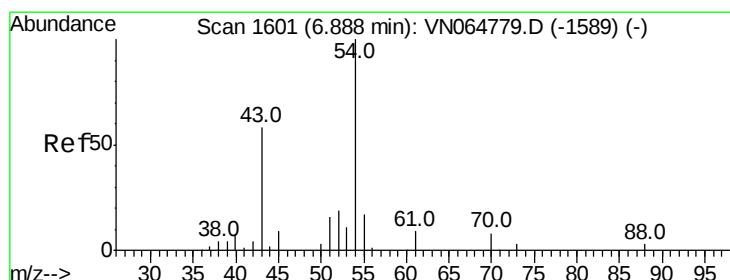
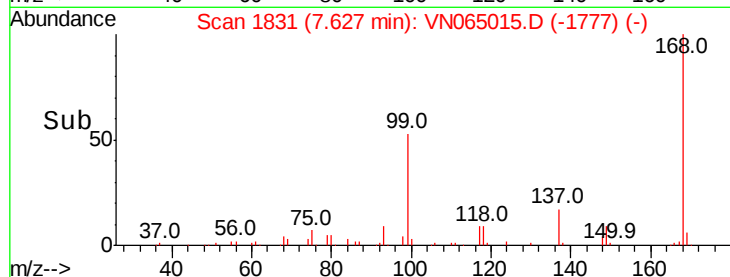
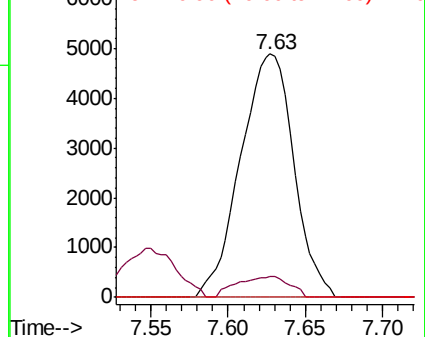
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 109.90 (109.60 to 110.60): VNO

Ion 76.90 (76.60 to 77.60): VNO



#37

Ethyl Acetate

Concen: 1.031 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. -0.09 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

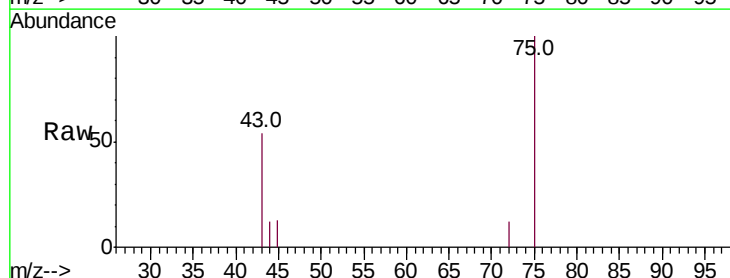
Tgt Ion: 43 Resp: 2879

Ion Ratio Lower Upper

43 100

61 1.1 12.8 19.2#

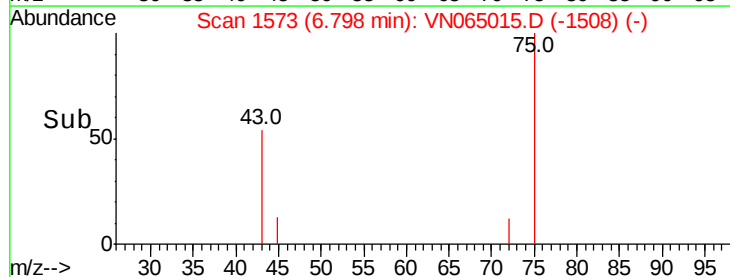
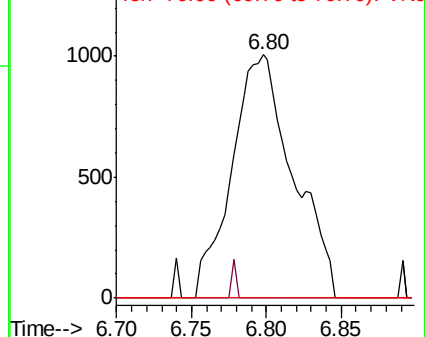
70 0.0 8.8 13.2#

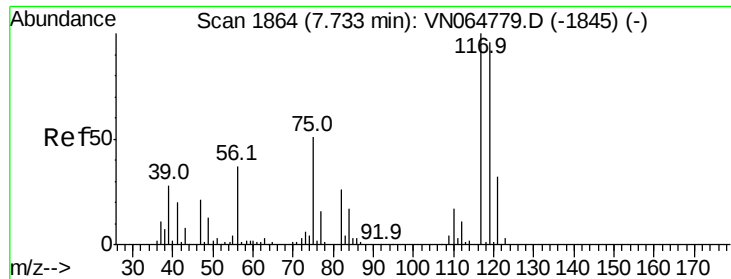


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 60.90 (60.60 to 61.60): VNO

Ion 70.00 (69.70 to 70.70): VNO





#38

Carbon Tetrachloride

Concen: 5.384 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB133472TB

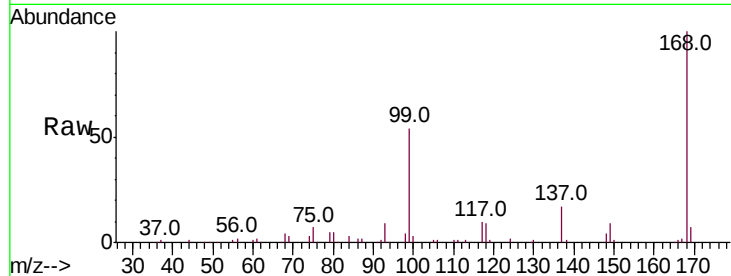
Tot Ion:117 Resp: 16240

Ion Ratio Lower Upper

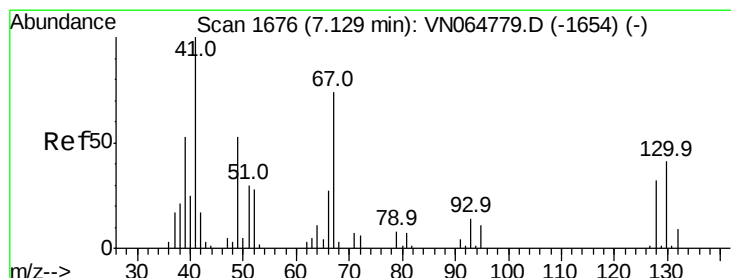
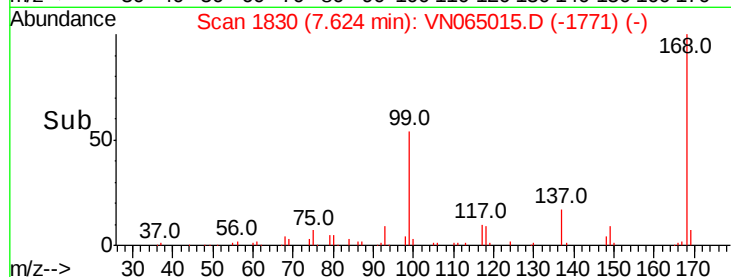
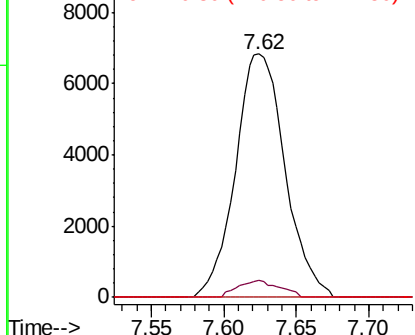
117 100

119 7.2 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: 0.279 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.04 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Tgt Ion: 41 Resp: 359

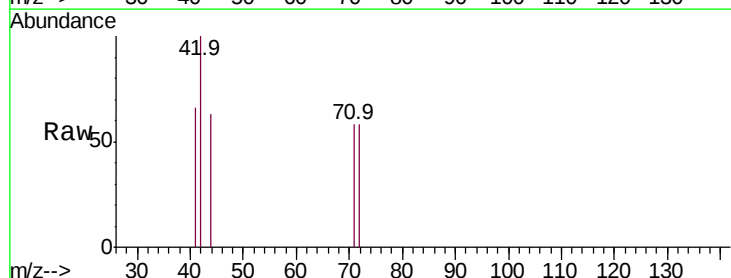
Ion Ratio Lower Upper

41 100

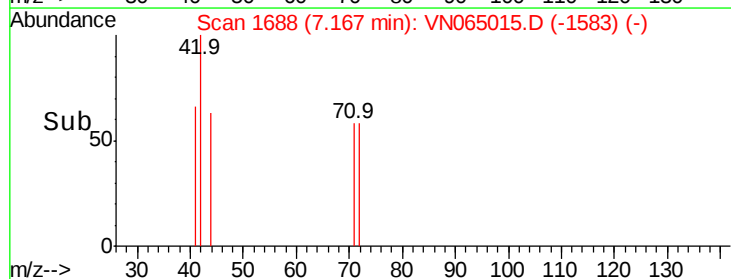
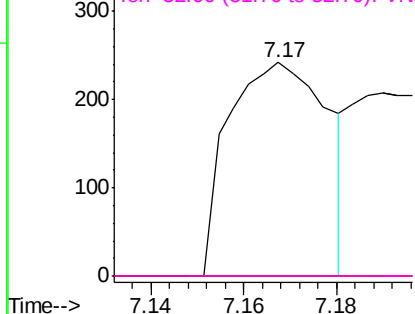
39 0.0 51.0 76.6#

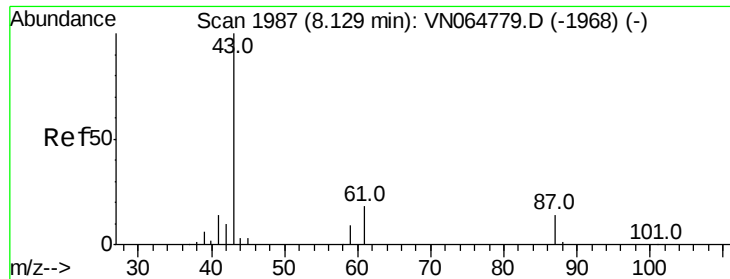
67 0.0 79.8 119.8#

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: 3.558 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. -0.00 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

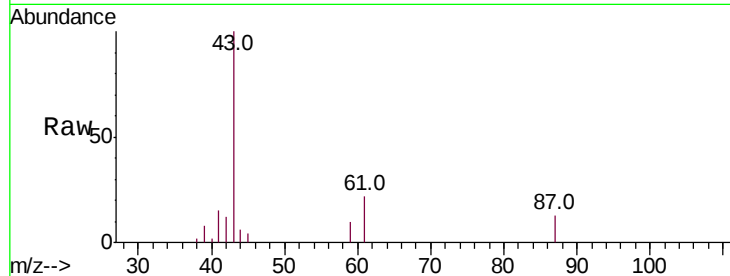
MSVOA_N

ClientSampleId :

PB133472TB

Tot Ion: 43 Resp: 15986

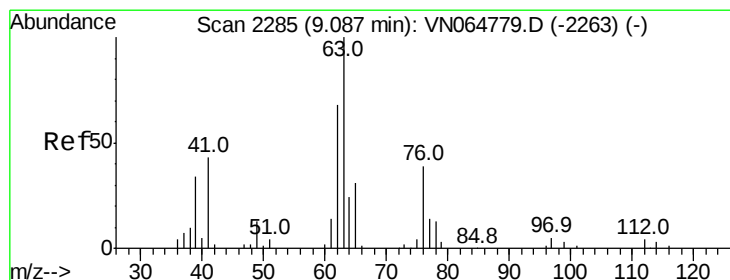
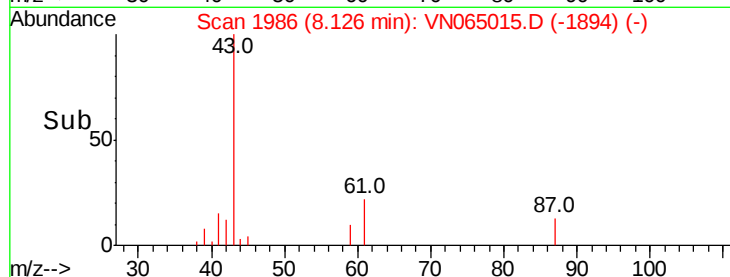
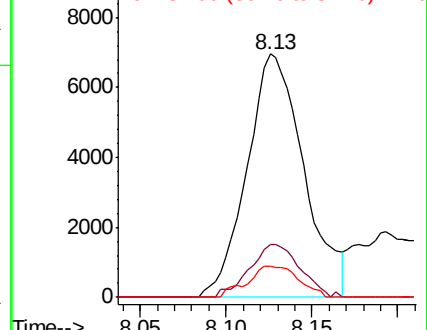
Ion	Ratio	Lower	Upper
43	100		
61	19.3	17.2	25.8
87	11.5	11.4	17.0



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: 0.553 ug/l

RT: 9.23 min Scan# 2330

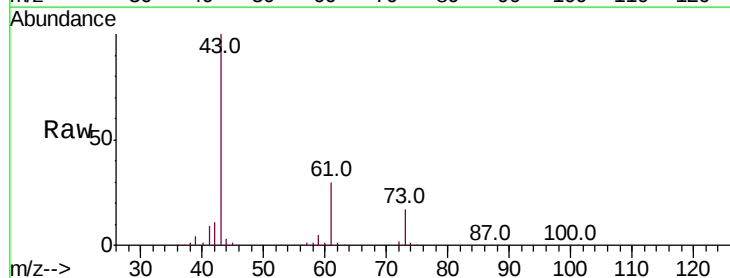
Delta R.T. 0.14 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

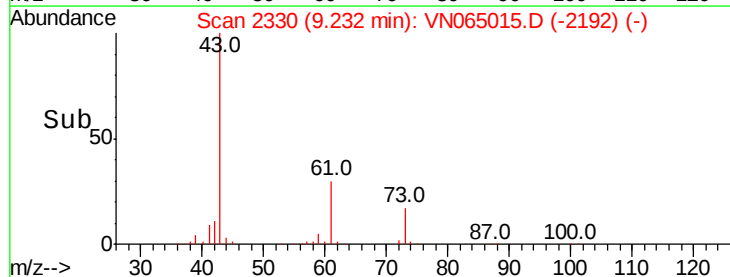
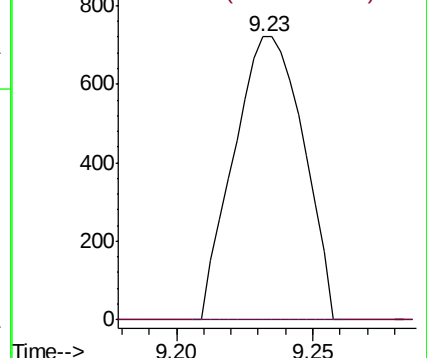
Tgt Ion: 63 Resp: 1272

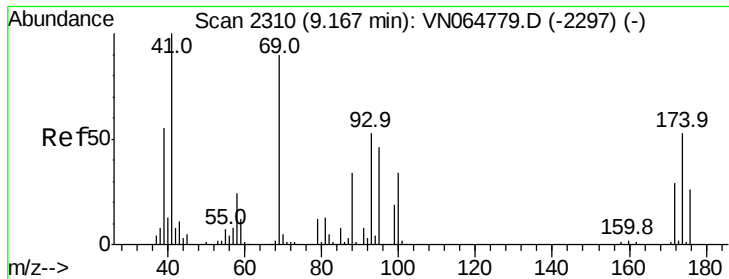
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





#48

Methyl methacrylate

Concen: 1.681 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB133472TB

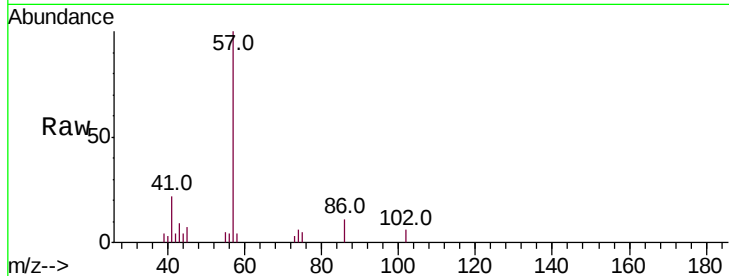
Tot Ion: 41 Resp: 3610

Ion Ratio Lower Upper

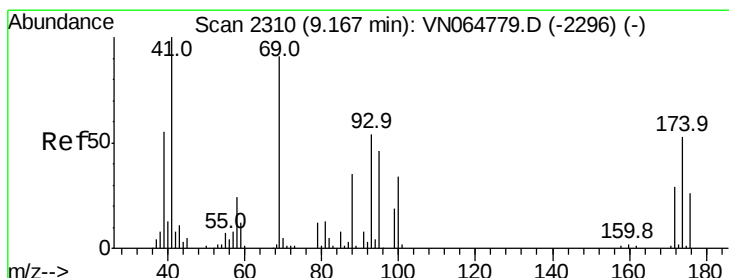
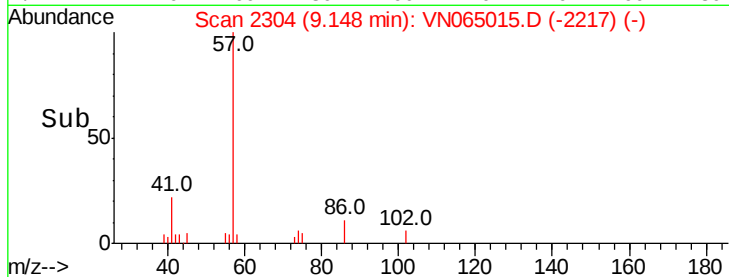
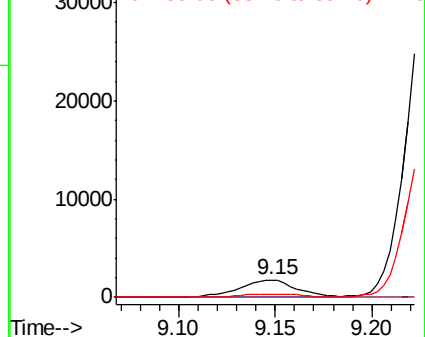
41 100

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



#49

1,4-Dioxane

Concen: 2.538 ug/l

RT: 9.23 min Scan# 2329

Delta R.T. 0.06 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

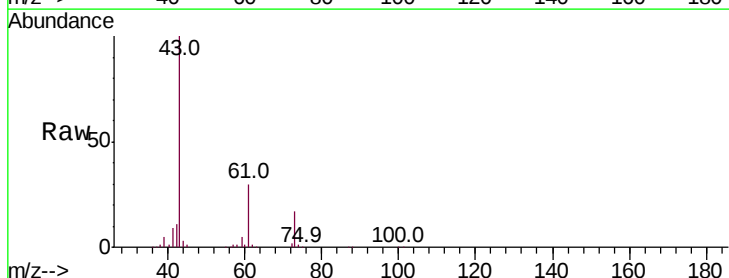
Tgt Ion: 88 Resp: 103

Ion Ratio Lower Upper

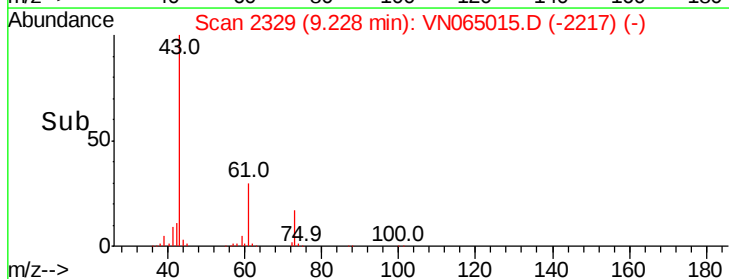
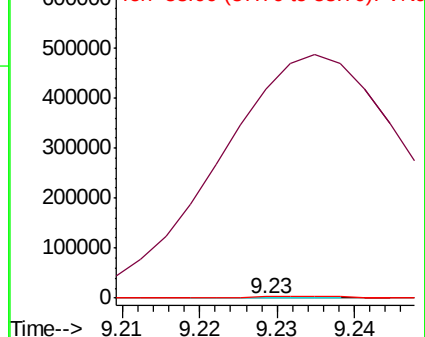
88 100

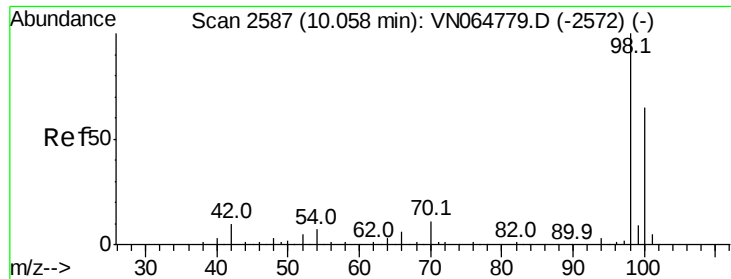
43 863781.6 24.2 36.4#

58 4673.8 52.5 78.7#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 53.669 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampled :

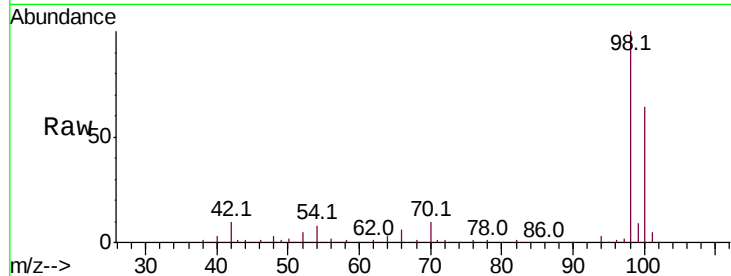
PB133472TB

Tot Ion: 98 Resp: 410397

Ion Ratio Lower Upper

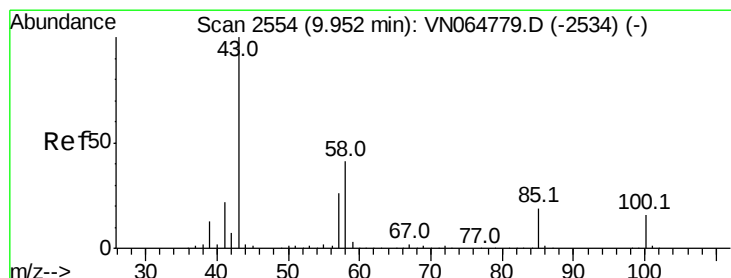
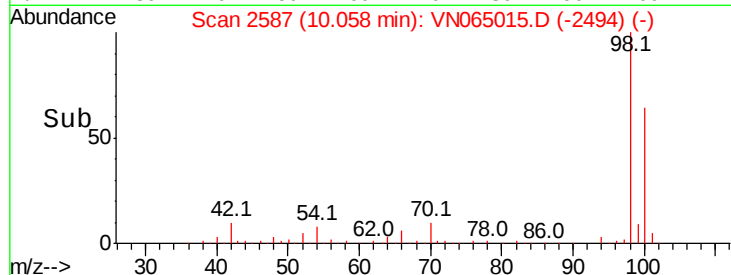
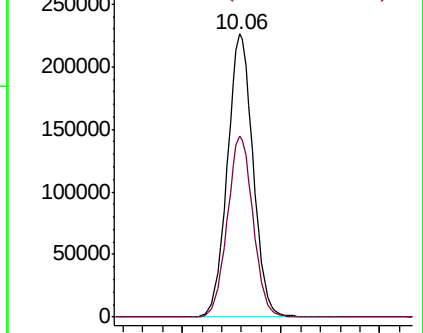
98 100

100 64.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.381 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN065015.D

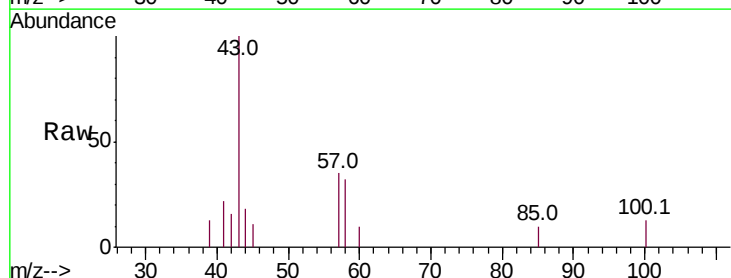
Acq: 9 Dec 2020 13:01

Tgt Ion: 43 Resp: 3725

Ion Ratio Lower Upper

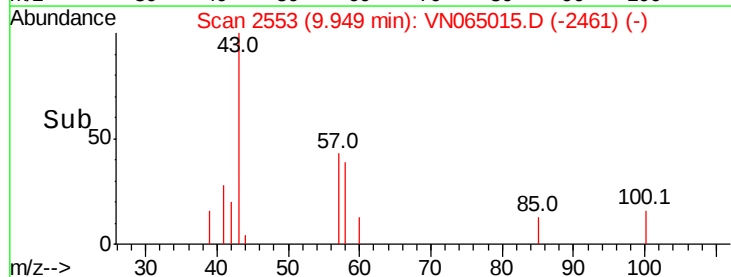
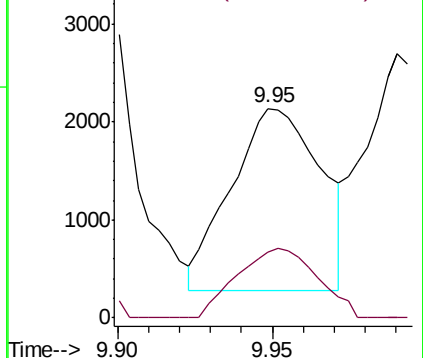
43 100

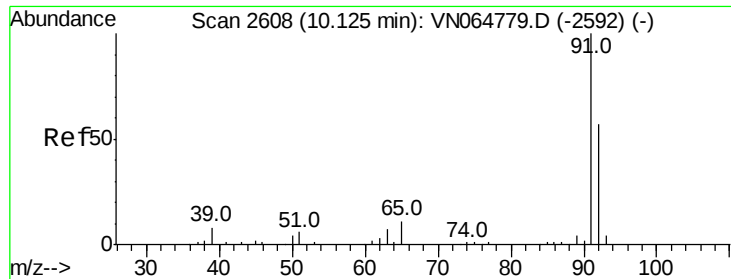
58 34.5 32.4 48.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 0.307 ug/l

RT: 10.13 min Scan# 2608

Delta R.T. 0.00 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

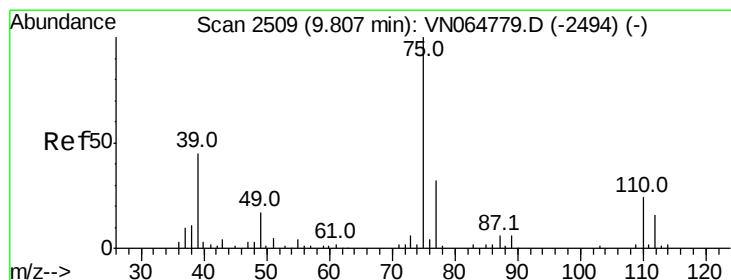
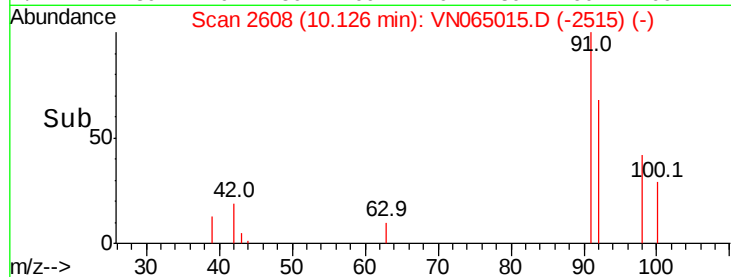
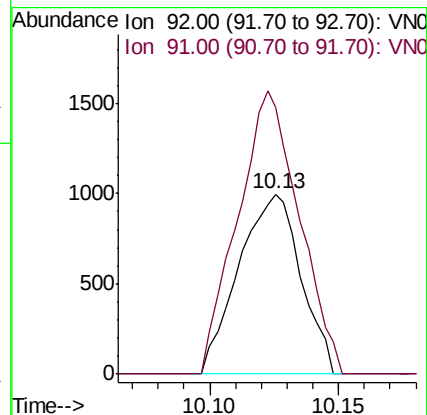
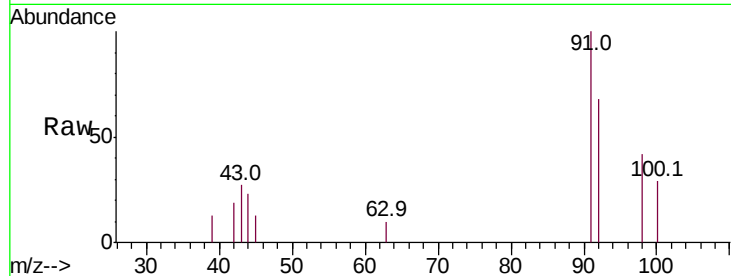
PB133472TB

Tot Ion: 92 Resp: 1677

Ion Ratio Lower Upper

92 100

91 155.5 139.1 208.7



#54

cis-1,3-Dichloropropene

Concen: 8.060 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

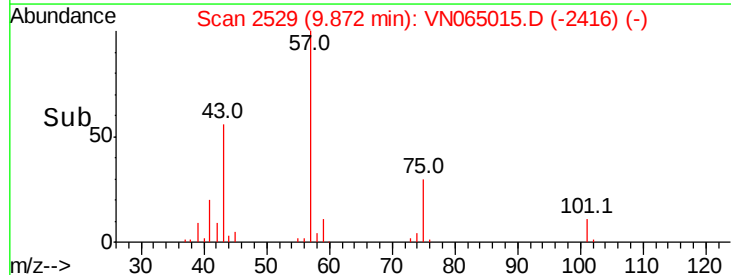
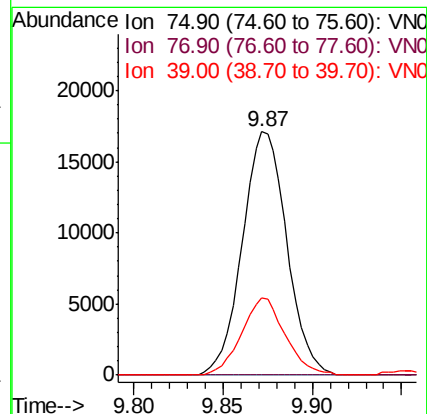
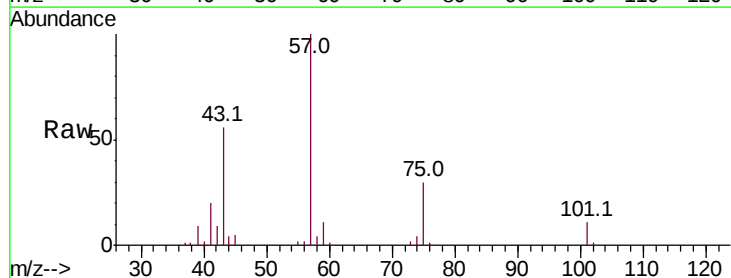
Tgt Ion: 75 Resp: 29757

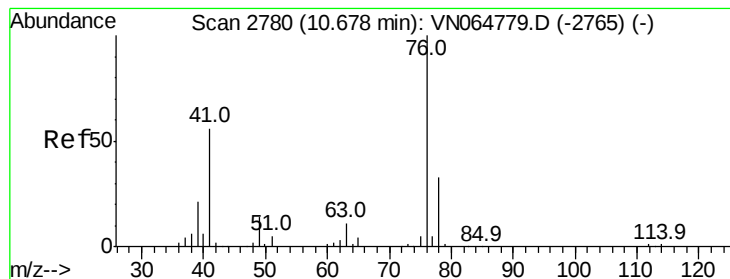
Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 31.6 35.6 53.4#





#57

1,3-Dichloropropane

Concen: 4.868 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.05 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampled :

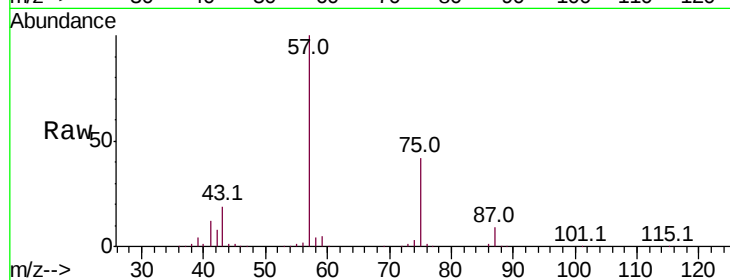
PB133472TB

Tot Ion: 76 Resp: 18067

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.73

12000

10000

8000

6000

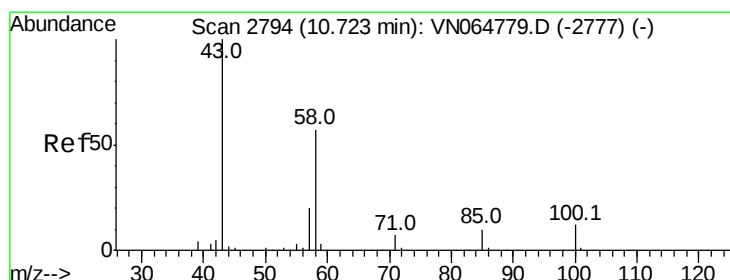
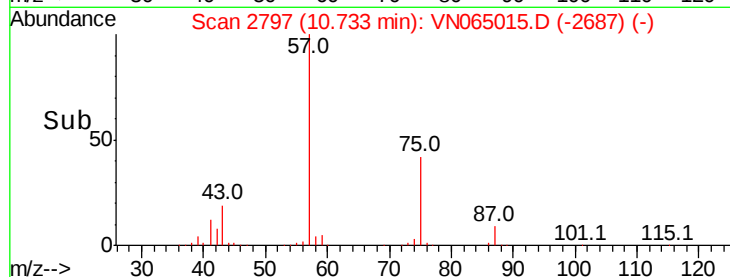
4000

2000

0

Time-->

10.70 10.75 10.80



#59

2-Hexanone

Concen: 118.811 ug/l

RT: 10.73 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN065015.D

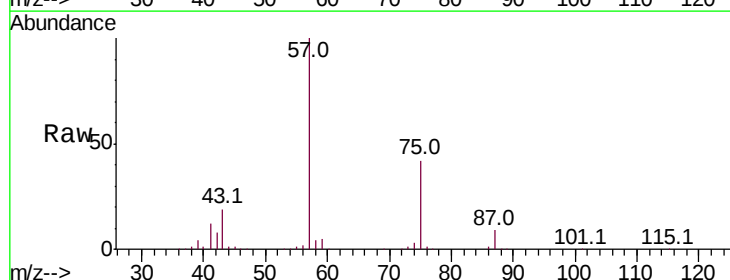
Acq: 9 Dec 2020 13:01

Tgt Ion: 43 Resp: 230671

Ion Ratio Lower Upper

43 100

58 20.3 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.73

150000

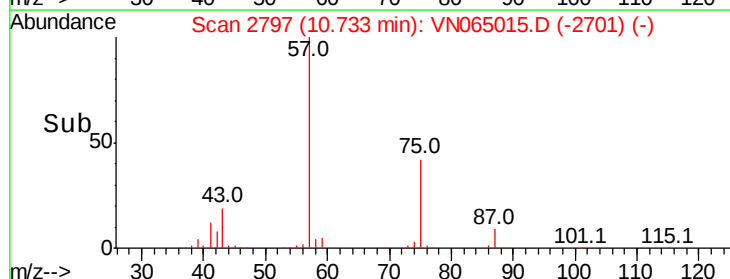
100000

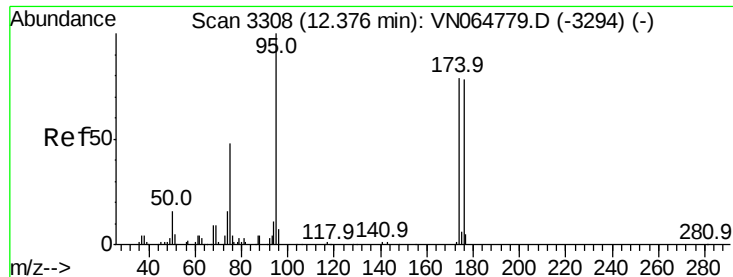
50000

0

Time-->

10.70 10.75 10.80

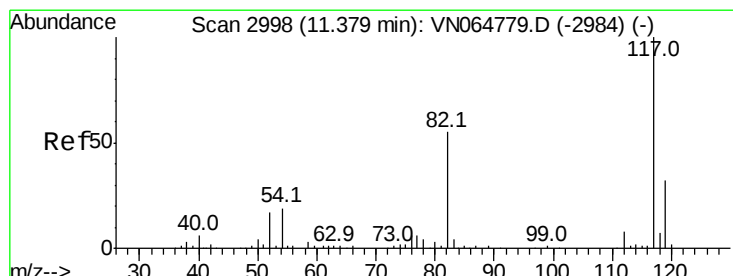
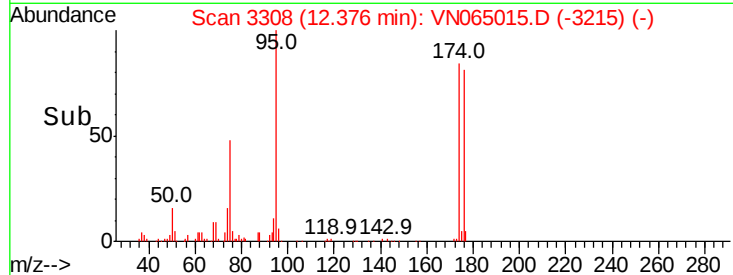
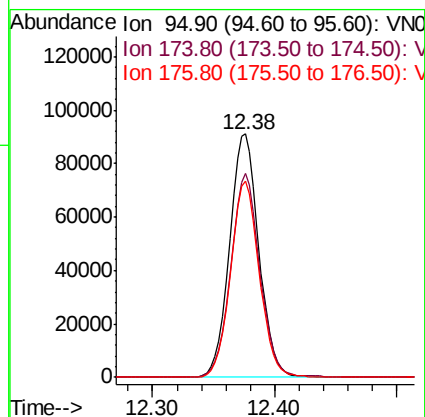
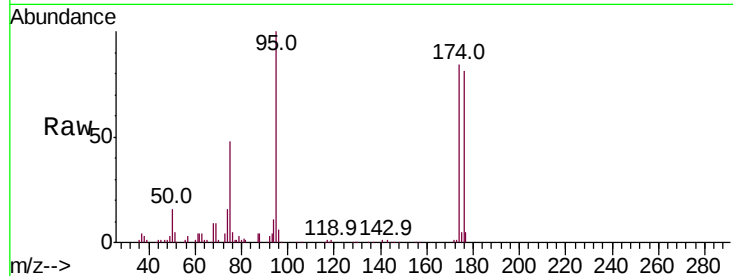




#62
4-Bromofluorobenzene
Concen: 55.755 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN065015.D
Acq: 9 Dec 2020 13:01

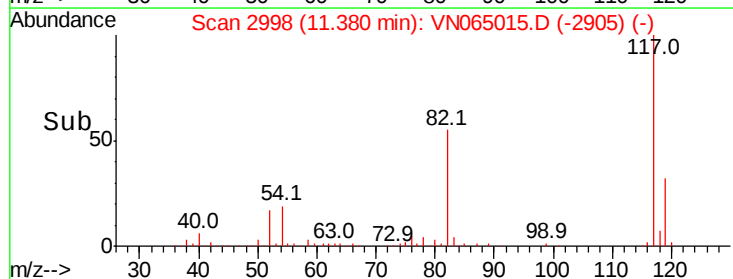
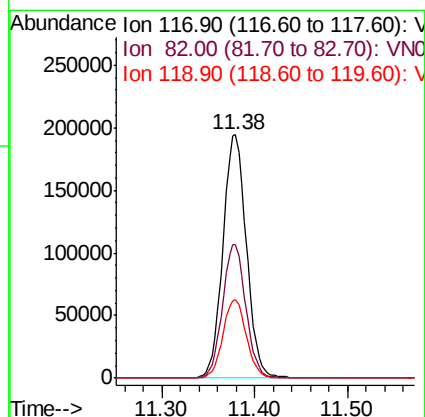
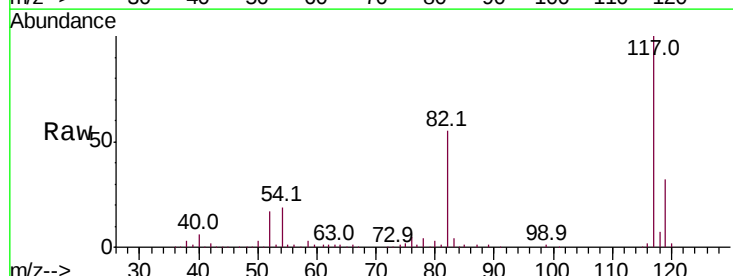
Instrument :
MSVOA_N
ClientSampleId :
PB133472TB

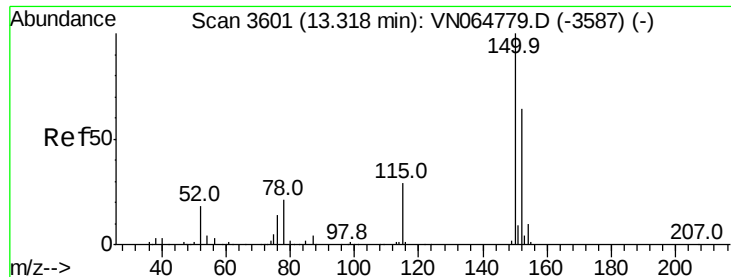
Tot Ion: 95 Resp: 152581
Ion Ratio Lower Upper
95 100
174 83.2 0.0 160.4
176 79.3 0.0 158.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN065015.D
Acq: 9 Dec 2020 13:01

Tgt Ion: 117 Resp: 341159
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 32.3 25.8 38.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

PB133472TB

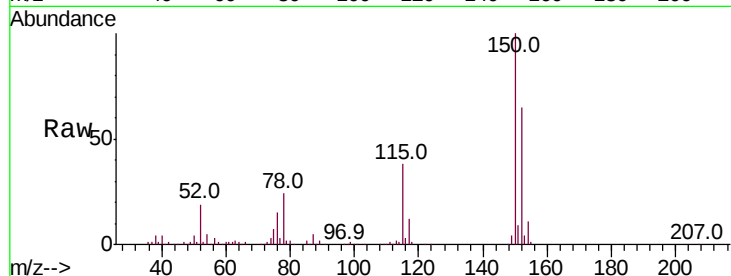
Tot Ion:152 Resp: 143365

Ion Ratio Lower Upper

152 100

115 57.5 29.7 89.1

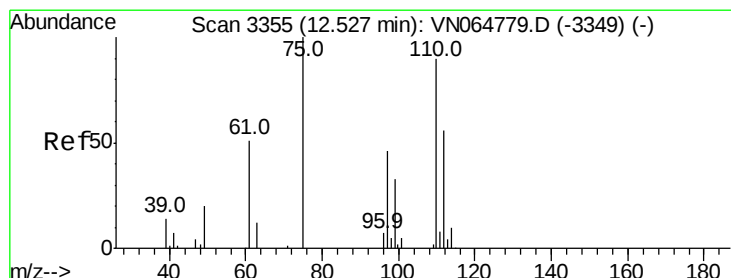
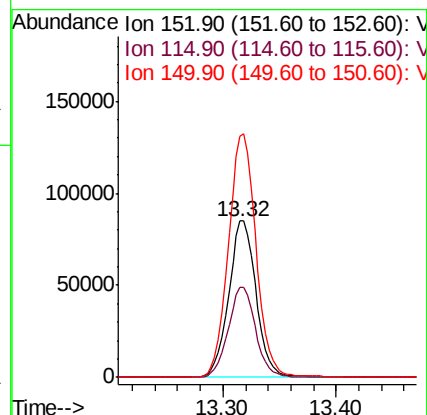
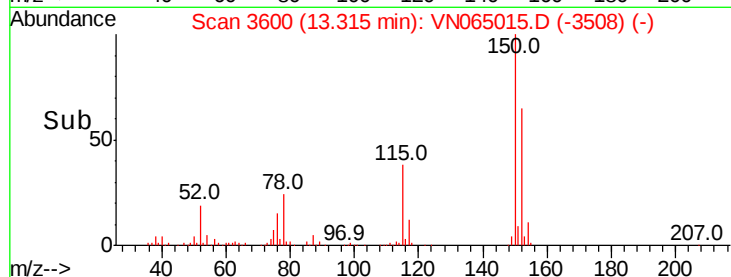
150 156.7 0.0 350.6



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: 23.450 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN065015.D

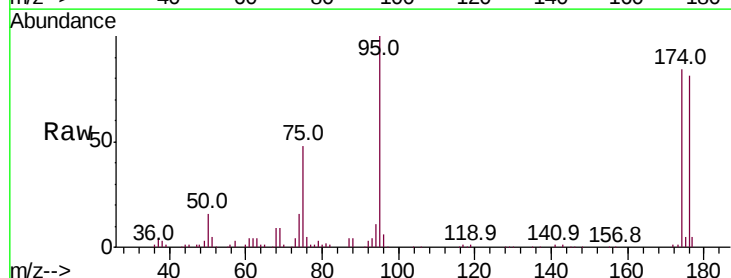
Acq: 9 Dec 2020 13:01

Tgt Ion: 75 Resp: 72403

Ion Ratio Lower Upper

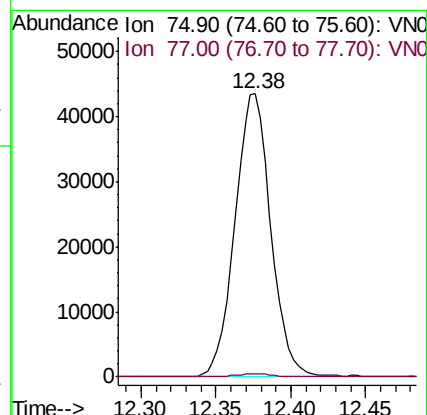
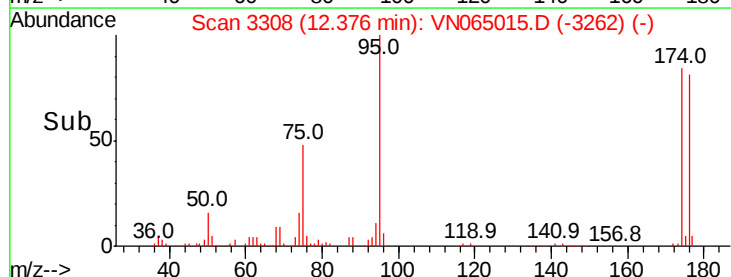
75 100

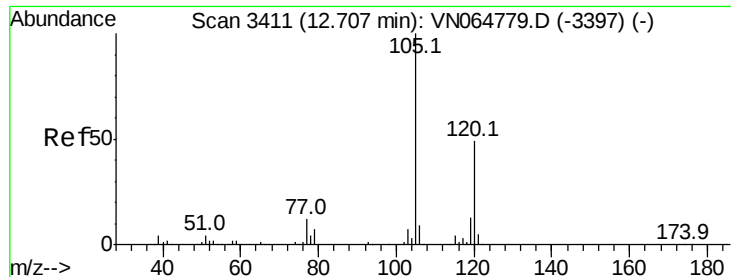
77 1.0 0.0 0.0#



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: 0.293 ug/l

RT: 12.71 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

Instrument :

MSVOA_N

ClientSampleId :

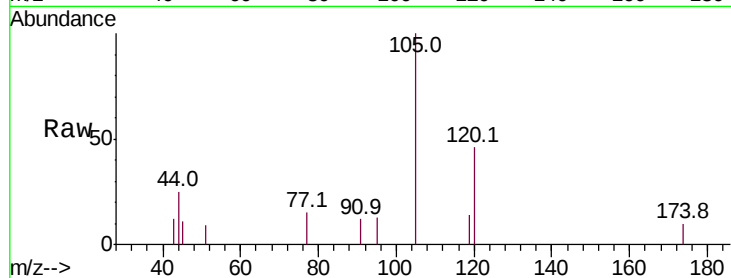
PB133472TB

Tot Ion:105 Resp: 2425

Ion Ratio Lower Upper

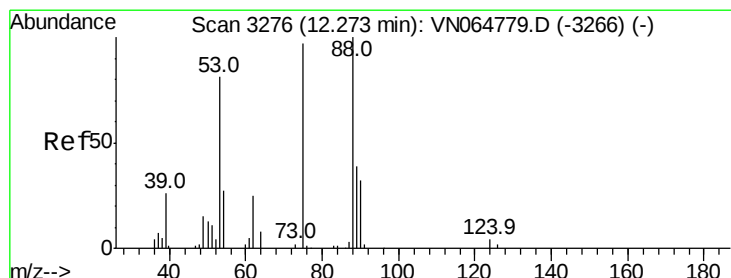
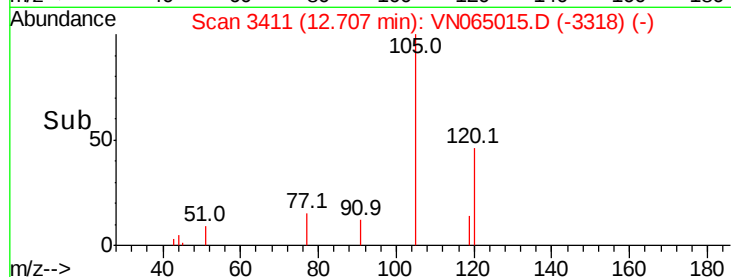
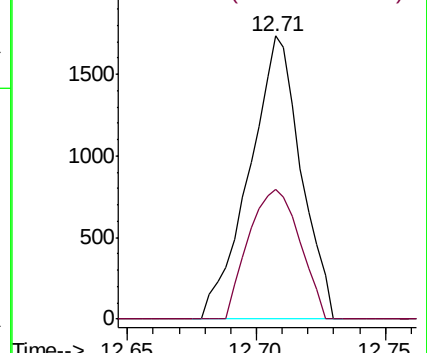
105 100

120 45.5 24.6 73.6



Abundance Ion 105.00 (104.70 to 105.70): V

2000 Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 64.272 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN065015.D

Acq: 9 Dec 2020 13:01

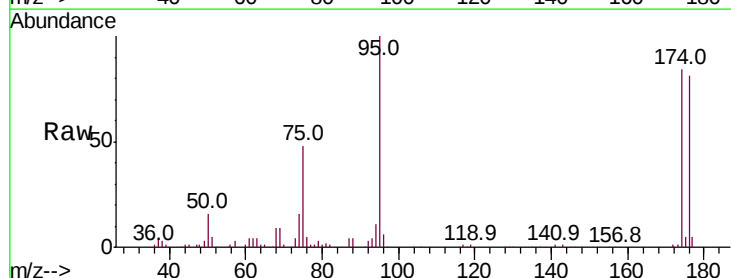
Tgt Ion: 75 Resp: 72403

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

