

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120920\
 Data File : VN065020.D
 Acq On : 9 Dec 2020 15:02
 Operator : JC/MD
 Sample : PB133472ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#01

Quant Time: Dec 10 04:07:58 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

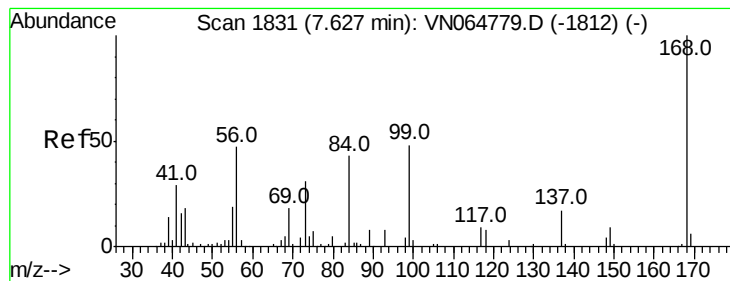
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	160525	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	300438	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	331722	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136992	50.00	ug/l	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4		7.99	65	105541	56.55	ug/l	0.00
Spiked Amount	50.000	Range	61 - 141	Recovery	=	113.10%	
35) Dibromofluoromethane		7.55	113	99159	55.16	ug/l	0.00
Spiked Amount	50.000	Range	69 - 133	Recovery	=	110.32%	
50) Toluene-d8		10.06	98	394274	53.68	ug/l	0.00
Spiked Amount	50.000	Range	65 - 126	Recovery	=	107.36%	
62) 4-Bromofluorobenzene		12.38	95	146322	55.66	ug/l	0.00
Spiked Amount	50.000	Range	58 - 135	Recovery	=	111.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	5344	8.711	ug/l	93
18) Methyl Acetate	4.29	43	605	0.328	ug/l #	50
20) Methylene Chloride	4.51	84	5255	2.734	ug/l	91
25) 2-Butanone	6.80	43	2228	2.240	ug/l	99
29) Tetrahydrofuran	7.17	42	1113	1.621	ug/l #	52
31) Cyclohexane	7.62	56	2751	1.058	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11296	4.056	ug/l #	47
38) Carbon Tetrachloride	7.62	117	15230	5.256	ug/l #	17
41) Methacrylonitrile	7.18	41	568	0.459	ug/l #	24
43) Isopropyl Acetate	8.13	43	14944	3.462	ug/l	95
45) 1,2-Dichloropropane	9.23	63	1002	0.453	ug/l #	43
48) Methyl methacrylate	9.14	41	4223	2.047	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	4001	1.544	ug/l	87
52) Toluene	10.12	92	1524	0.290	ug/l	100
54) cis-1,3-Dichloropropene	9.87	75	27666	7.801	ug/l #	66
57) 1,3-Dichloropropane	10.74	76	17210	4.828	ug/l #	42
59) 2-Hexanone	10.74	43	229161	122.877	ug/l #	51
71) Bromoform	12.37	173	701	0.335	ug/l #	1
74) N-amyl acetate	11.85	43	10112	2.697	ug/l #	52
76) 1,2,3-Trichloropropane	12.37	75	68449	23.201	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.70	105	2035	0.257	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.37	75	68449	63.589	ug/l #	15

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

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Acq On : 9 Dec 2020 15:02
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Sample : PB133472ZHE#01
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 12 Sample Multiplier: 1



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

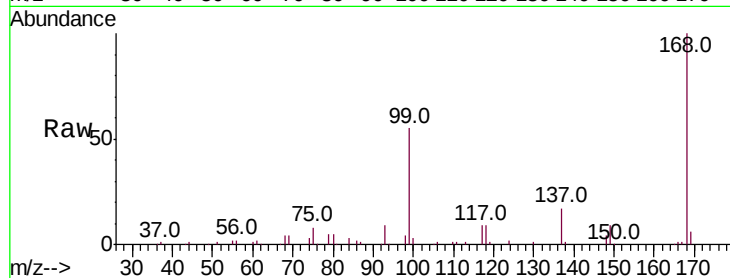
PB133472ZHE#01

Tot Ion:168 Resp: 160525

Ion Ratio Lower Upper

168 100

99 55.0 43.0 64.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

60000

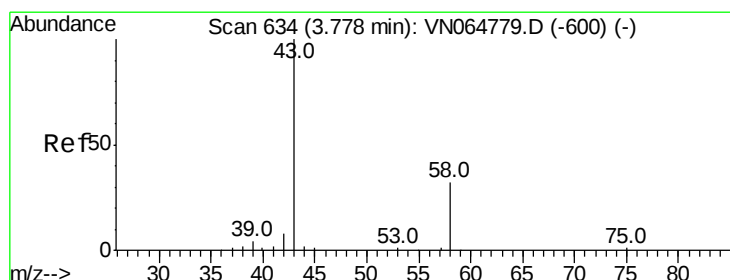
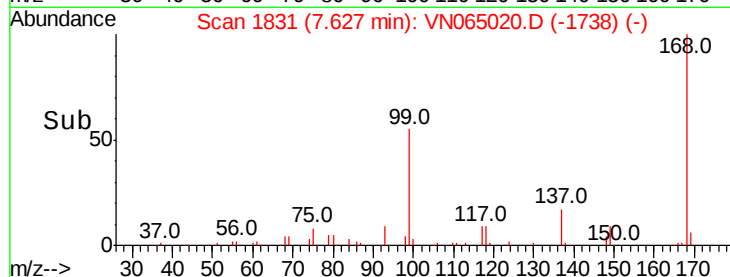
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#16

Acetone

Concen: 8.711 ug/l

RT: 3.78 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN065020.D

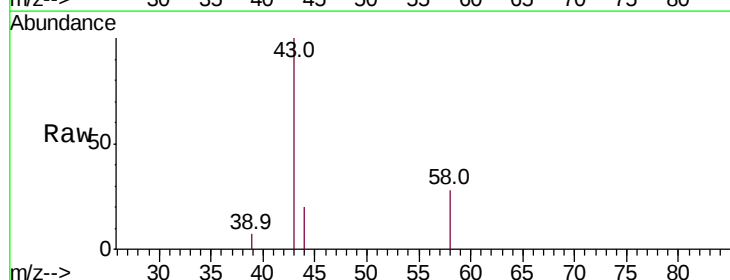
Acq: 9 Dec 2020 15:02

Tgt Ion: 43 Resp: 5344

Ion Ratio Lower Upper

43 100

58 28.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

2500

2000

1500

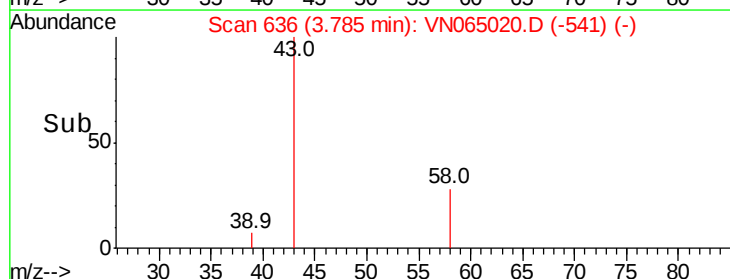
1000

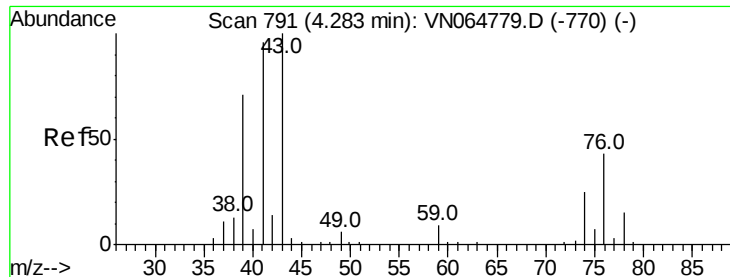
500

0

3.70 3.75 3.80 3.85

Time-->

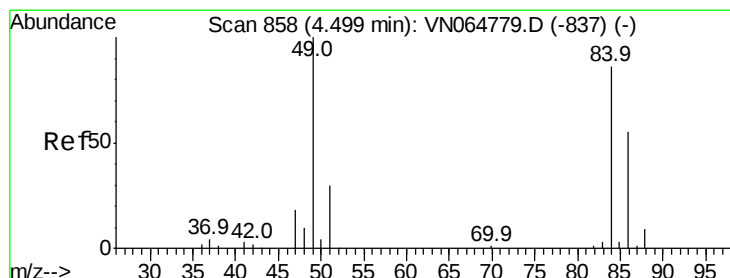
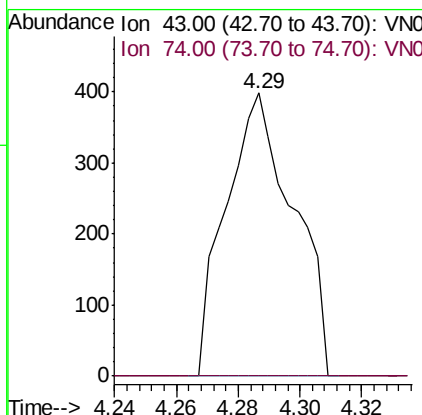
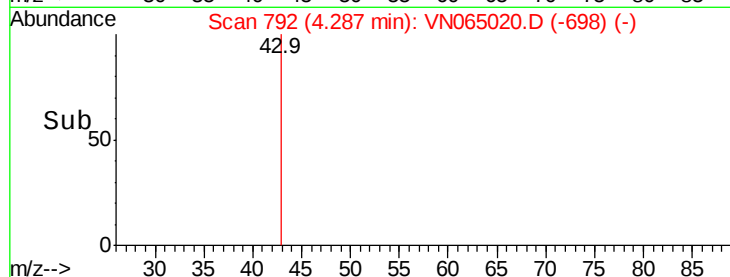
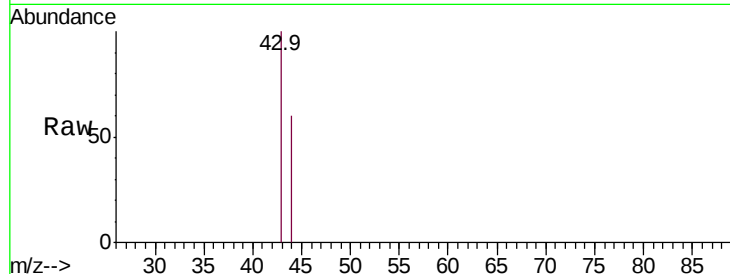




#18
Methyl Acetate
Concen: 0.328 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.00 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

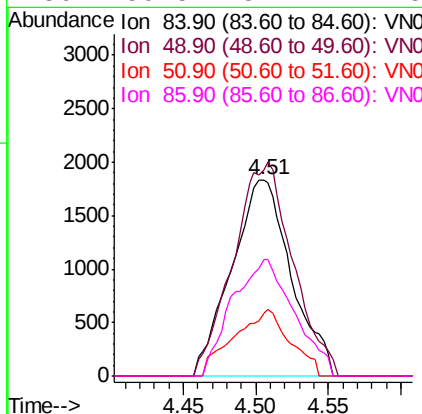
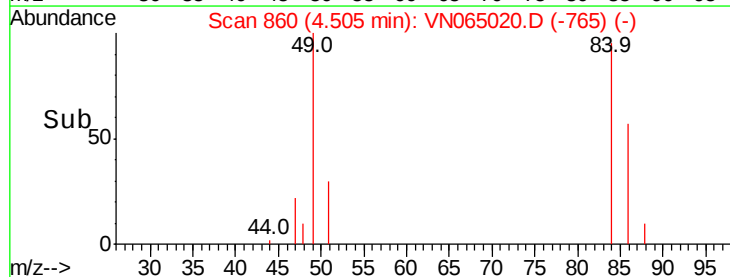
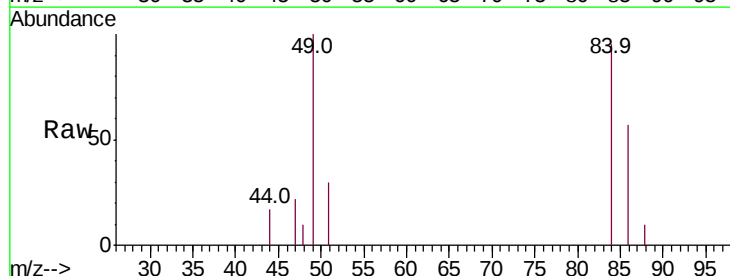
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#01

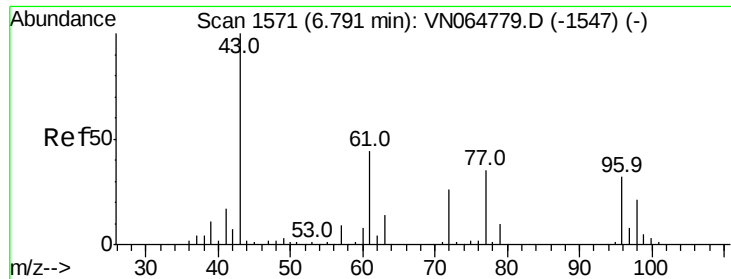
Tot Ion: 43 Resp: 605
Ion Ratio Lower Upper
43 100
74 0.0 20.2 30.2#



#20
Methylene Chloride
Concen: 2.734 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Tgt Ion: 84 Resp: 5255
Ion Ratio Lower Upper
84 100
49 104.8 93.4 140.0
51 32.0 28.2 42.4
86 59.5 51.7 77.5

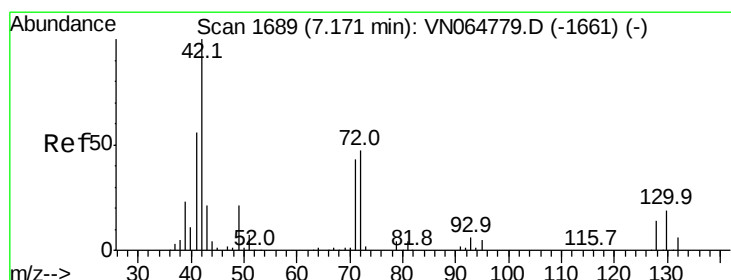
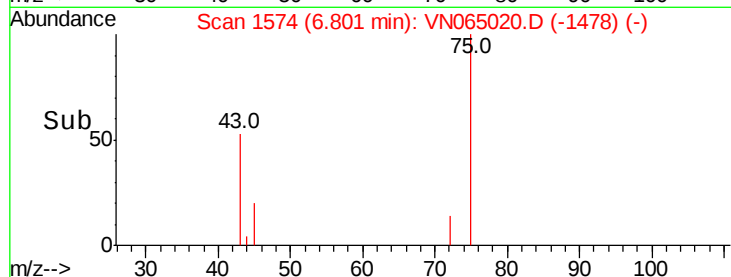
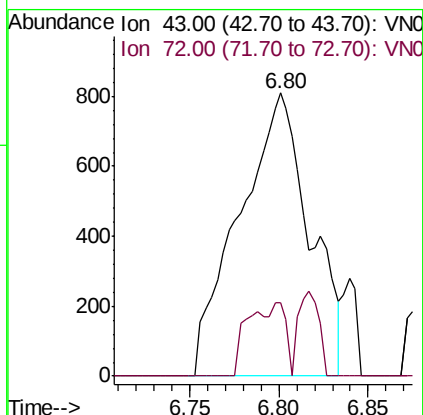
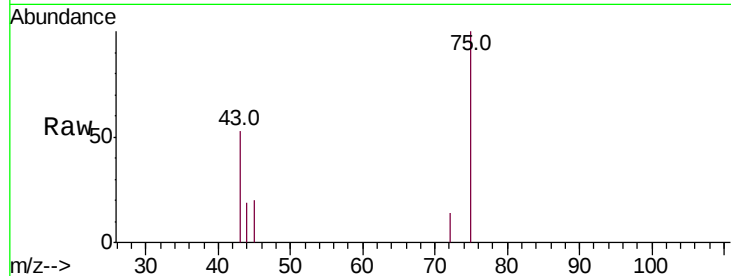




#25
2-Butanone
Concen: 2.240 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.01 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

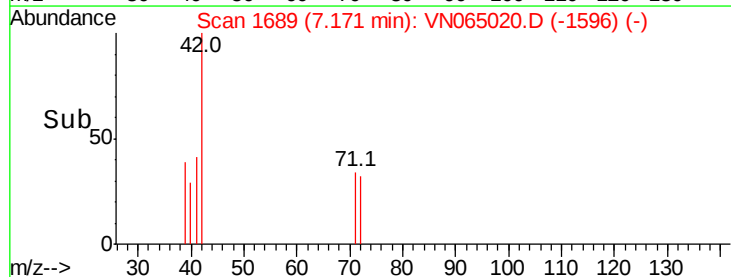
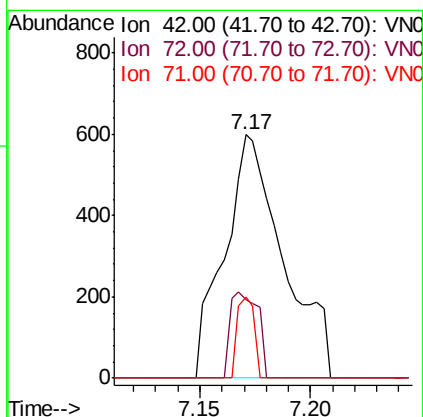
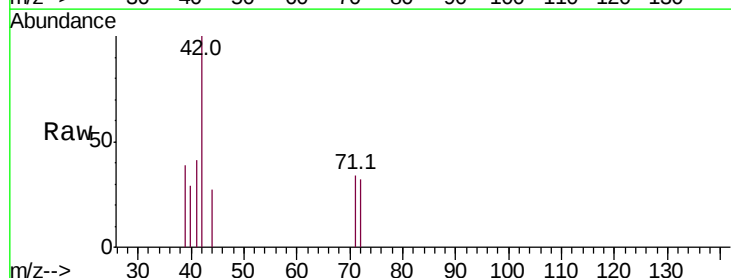
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#01

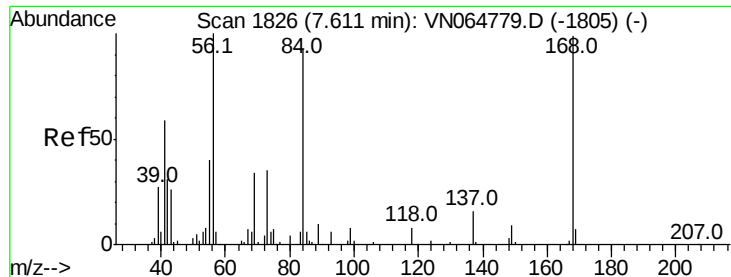
Tot Ion: 43 Resp: 2228
Ion Ratio Lower Upper
43 100
72 25.8 21.0 31.6



#29
Tetrahydrofuran
Concen: 1.621 ug/l
RT: 7.17 min Scan# 1689
Delta R.T. 0.00 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Tgt Ion: 42 Resp: 1113
Ion Ratio Lower Upper
42 100
72 16.6 36.6 54.8#
71 9.6 33.6 50.4#

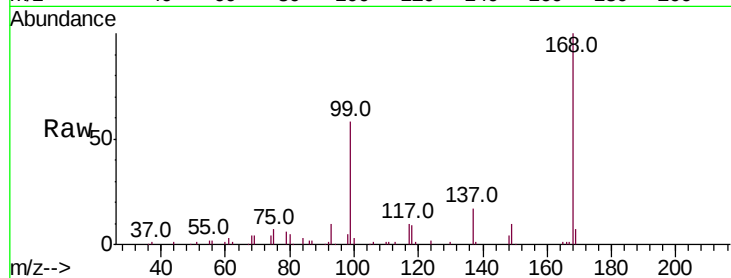




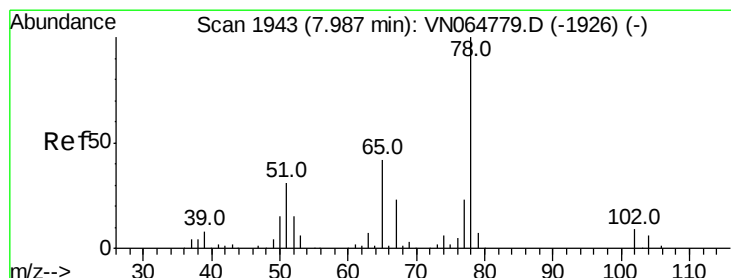
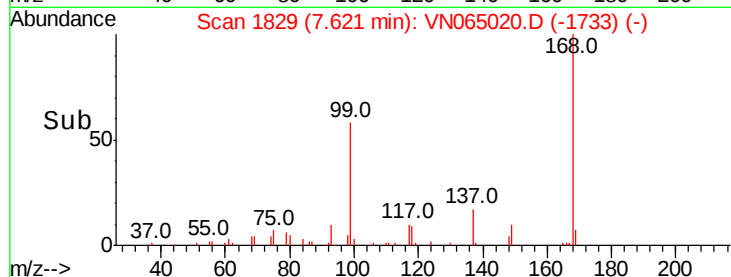
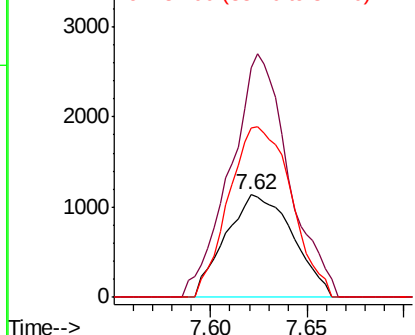
#31
Cyclohexane
Concen: 1.058 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. 0.01 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#01

Tot Ion: 56 Resp: 2751
Ion Ratio Lower Upper
56 100
69 224.3 27.5 41.3#
84 164.9 73.9 110.9#

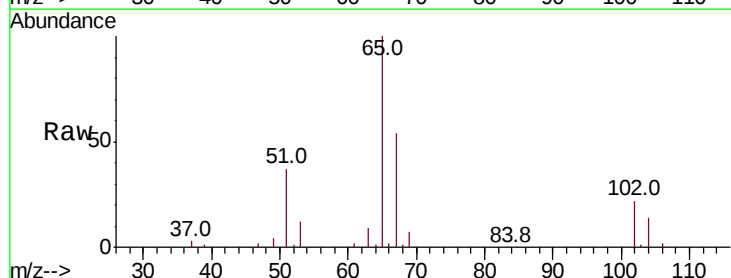


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

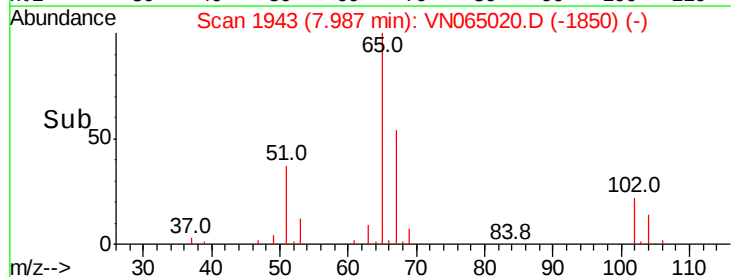
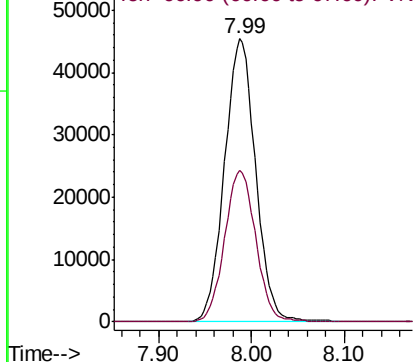


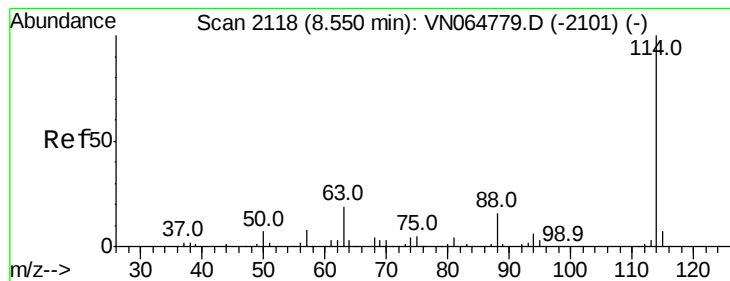
#33
1,2-Dichloroethane-d4
Concen: 56.554 ug/l
RT: 7.99 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Tgt Ion: 65 Resp: 105541
Ion Ratio Lower Upper
65 100
67 53.6 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: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#01

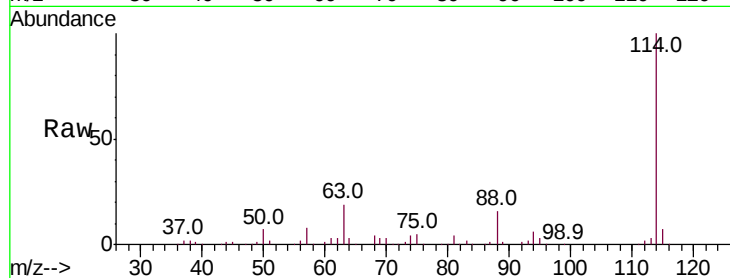
Tot Ion:114 Resp: 300438

Ion Ratio Lower Upper

114 100

63 19.4 0.0 38.6

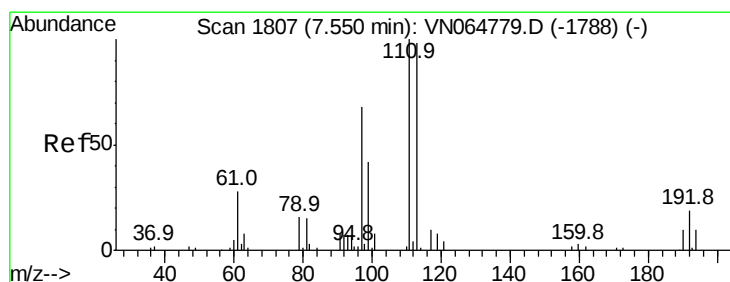
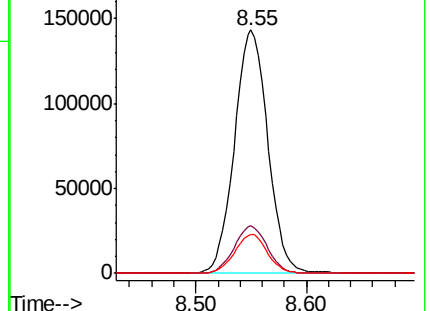
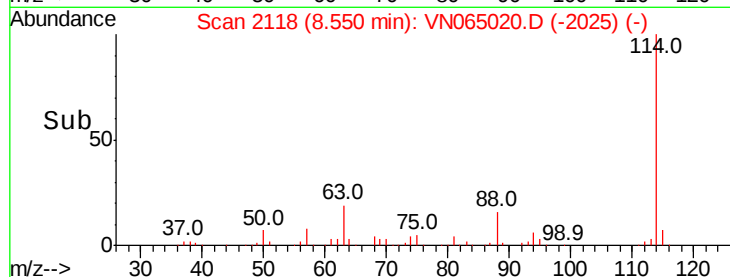
88 16.2 0.0 32.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 55.158 ug/l

RT: 7.55 min Scan# 1806

Delta R.T. -0.00 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

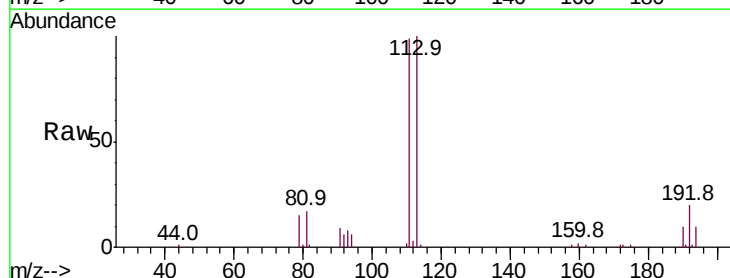
Tgt Ion:113 Resp: 99159

Ion Ratio Lower Upper

113 100

111 98.9 81.6 122.4

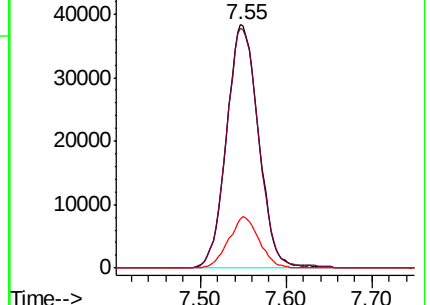
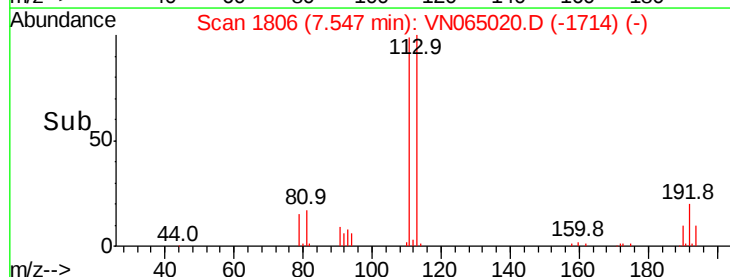
192 20.1 16.2 24.2

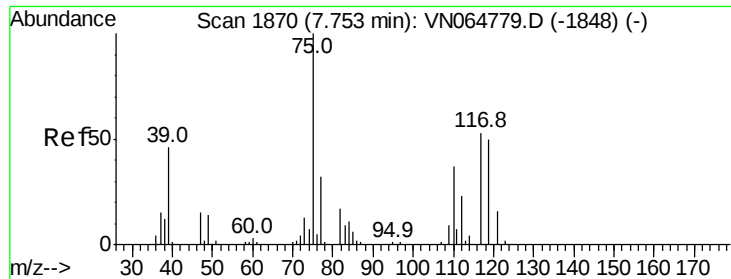


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

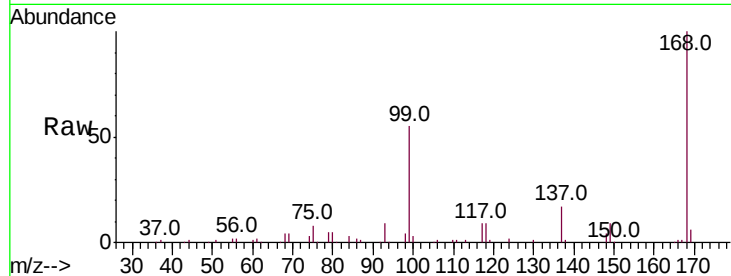




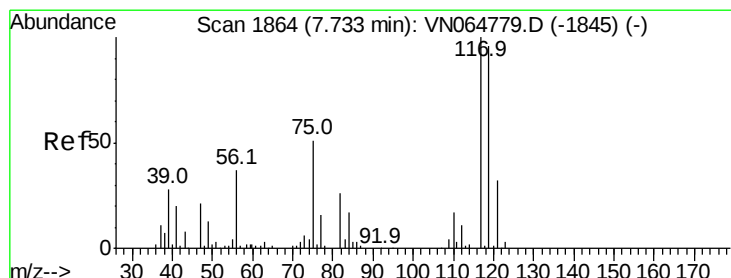
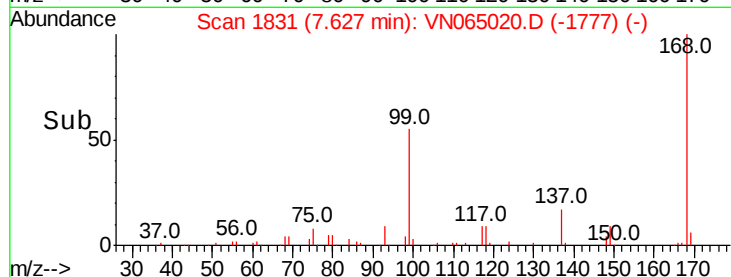
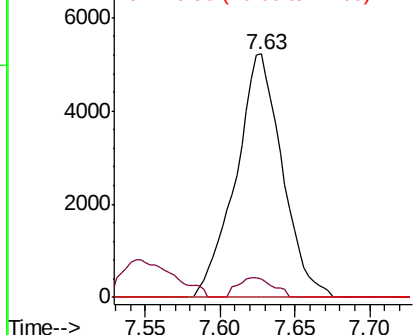
#36
 1,1-Dichloropropene
 Concen: 4.056 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN065020.D
 Acq: 9 Dec 2020 15:02

Instrument :
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Tot Ion	Ratio	Lower	Upper
75	100		
110	6.1	17.8	53.3#
77	0.0	25.0	37.4#

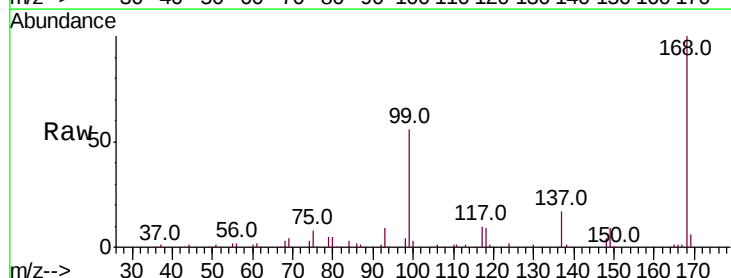


Abundance Ion 74.90 (74.60 to 75.60): VN064779.D (-1848) (-)
 Ion 109.90 (109.60 to 110.60): VN064779.D (-1848) (-)
 Ion 76.90 (76.60 to 77.60): VN064779.D (-1848) (-)

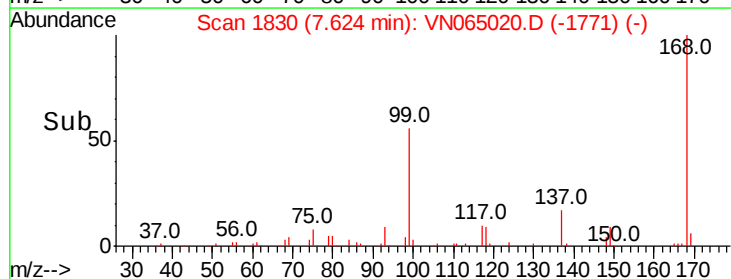
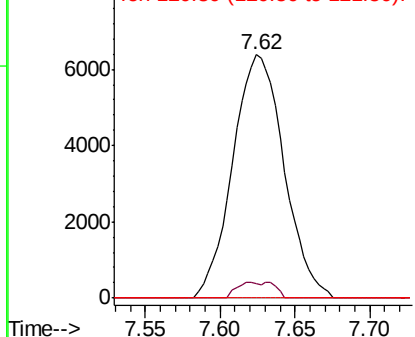


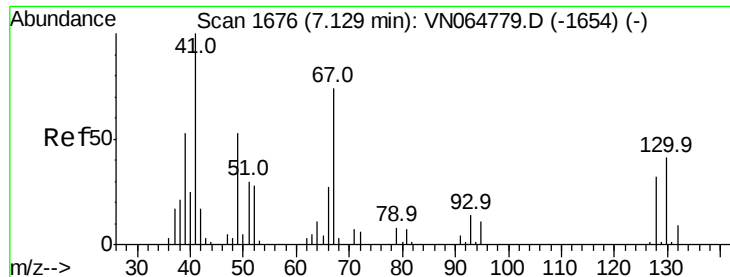
#38
 Carbon Tetrachloride
 Concen: 5.256 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.11 min
 Lab File: VN065020.D
 Acq: 9 Dec 2020 15:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.9	76.7	115.1#
121	0.0	25.4	38.2#



Abundance Ion 116.80 (116.50 to 117.50): VN064779.D (-1845) (-)
 Ion 118.80 (118.50 to 119.50): VN064779.D (-1845) (-)
 Ion 120.80 (120.50 to 121.50): VN064779.D (-1845) (-)

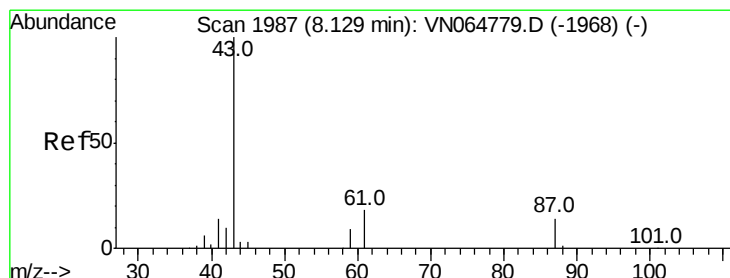
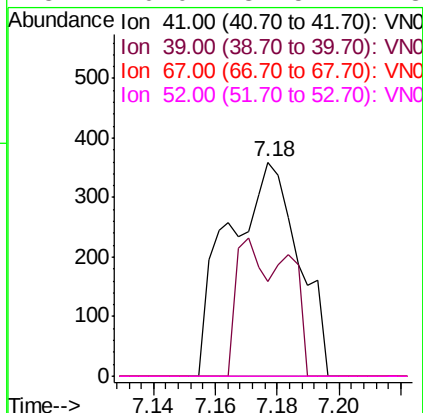
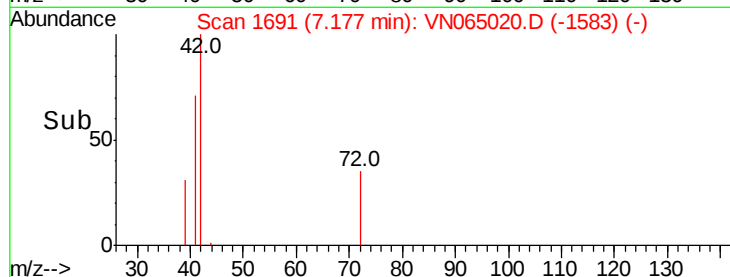
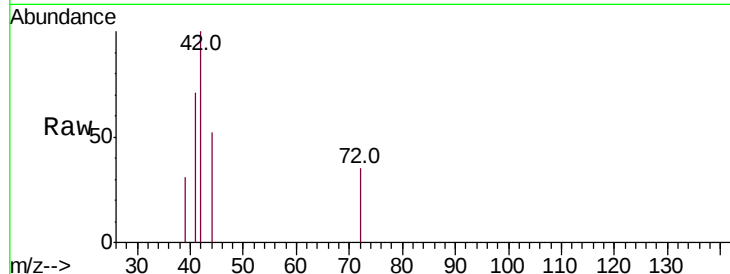




#41
Methacrylonitrile
Concen: 0.459 ug/l
RT: 7.18 min Scan# 1691
Delta R.T. 0.05 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

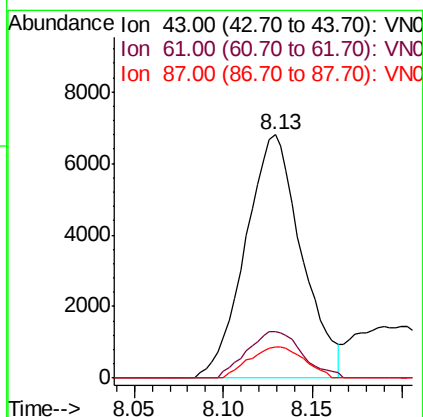
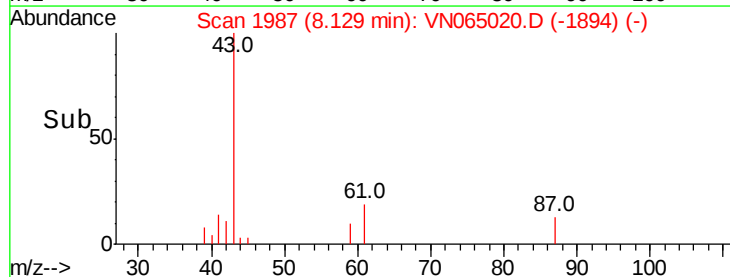
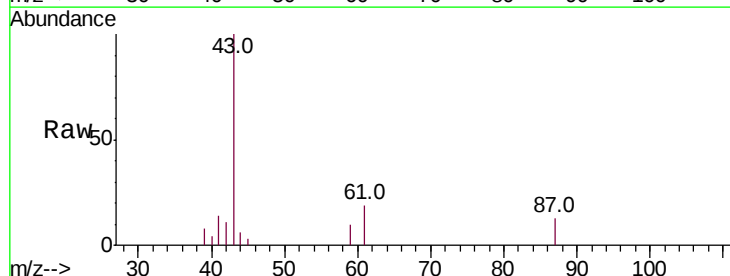
Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#01

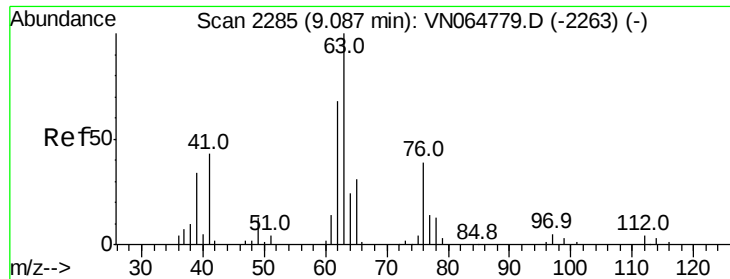
Tot Ion: 41 Resp: 568
Ion Ratio Lower Upper
41 100
39 26.8 51.0 76.6#
67 0.0 79.8 119.8#
52 0.0 31.5 47.3#



#43
Isopropyl Acetate
Concen: 3.462 ug/l
RT: 8.13 min Scan# 1987
Delta R.T. 0.00 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Tgt Ion: 43 Resp: 14944
Ion Ratio Lower Upper
43 100
61 18.9 17.2 25.8
87 12.5 11.4 17.0

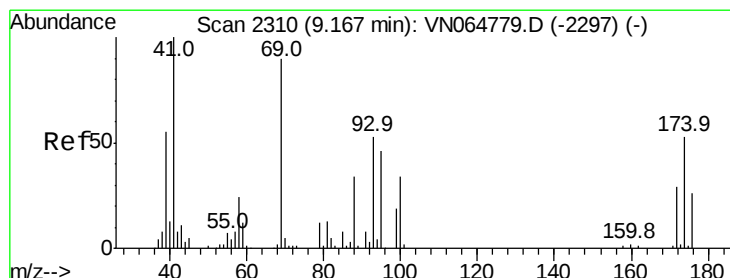
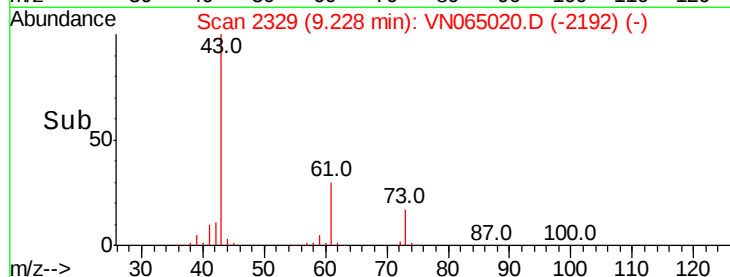
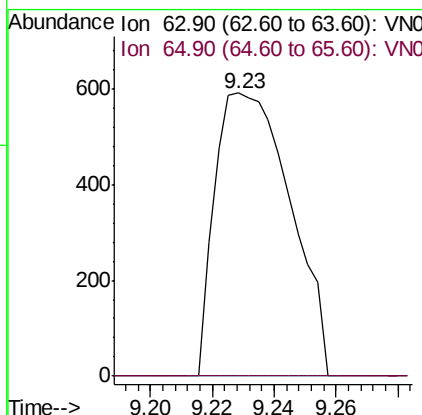
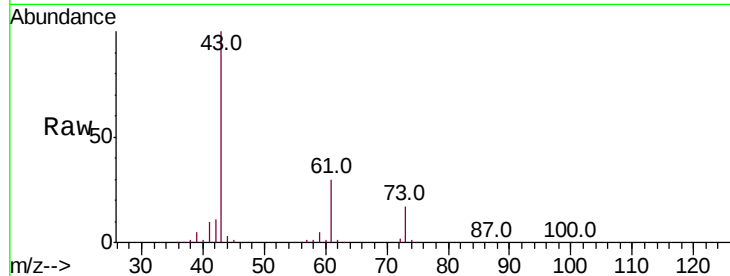




#45
 1,2-Dichloropropane
 Concen: 0.453 ug/l
 RT: 9.23 min Scan# 2329
 Delta R.T. 0.14 min
 Lab File: VN065020.D
 Acq: 9 Dec 2020 15:02

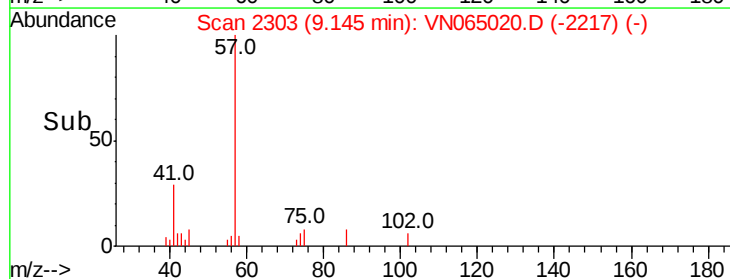
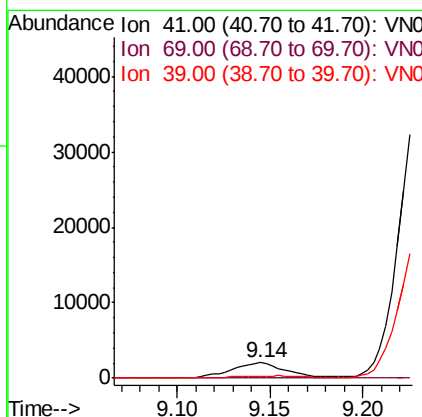
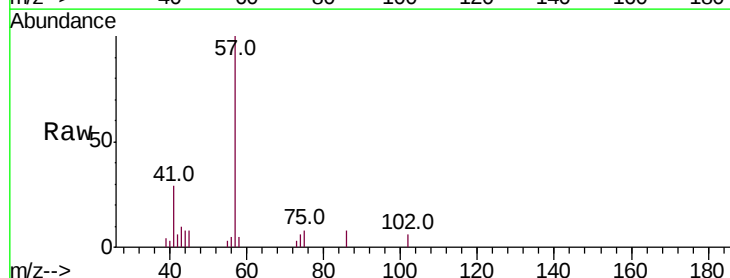
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#01

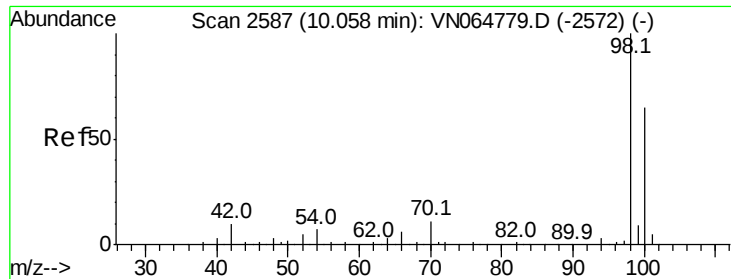
Tot Ion: 63 Resp: 1002
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 2.047 ug/l
 RT: 9.14 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN065020.D
 Acq: 9 Dec 2020 15:02

Tgt Ion: 41 Resp: 4223
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.8 107.8#
 39 0.0 44.1 66.1#





#50

Toluene-d8

Concen: 53.677 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

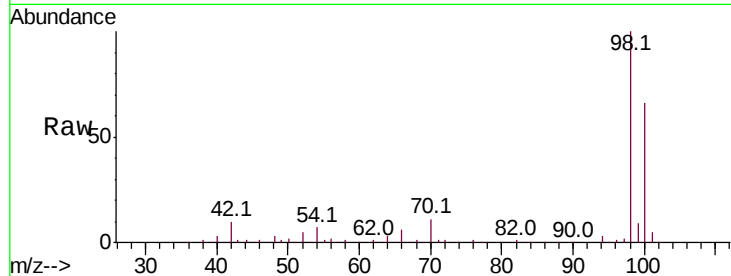
PB133472ZHE#01

Tot Ion: 98 Resp: 394274

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

200000

150000

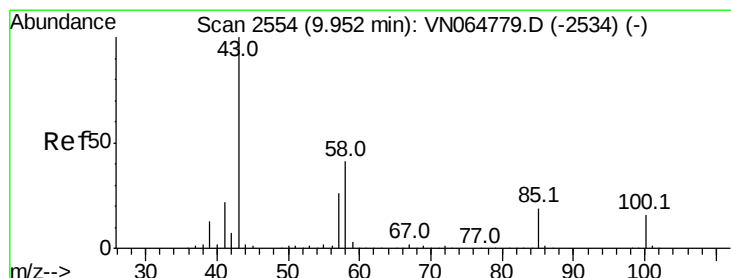
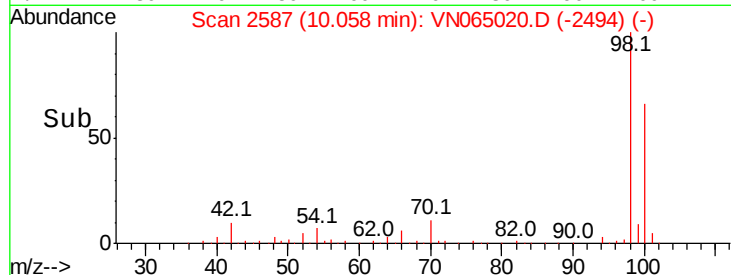
100000

50000

0

10.00 10.10 10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.544 ug/l

RT: 9.95 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN065020.D

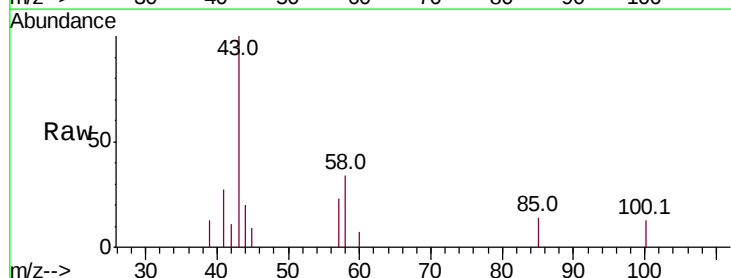
Acq: 9 Dec 2020 15:02

Tgt Ion: 43 Resp: 4001

Ion Ratio Lower Upper

43 100

58 32.4 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) (-)

10000

8000

6000

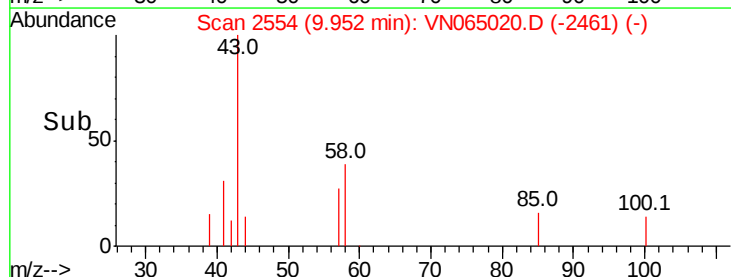
4000

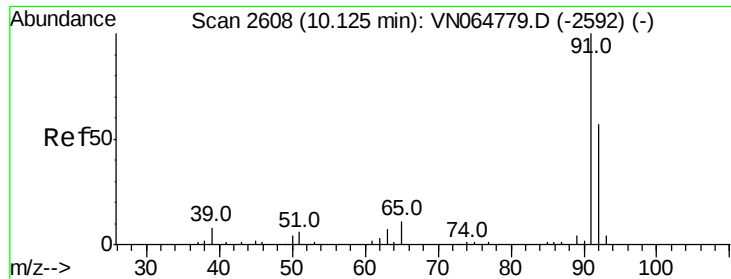
2000

0

9.90 9.95

Time-->





#52

Toluene

Concen: 0.290 ug/l

RT: 10.12 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

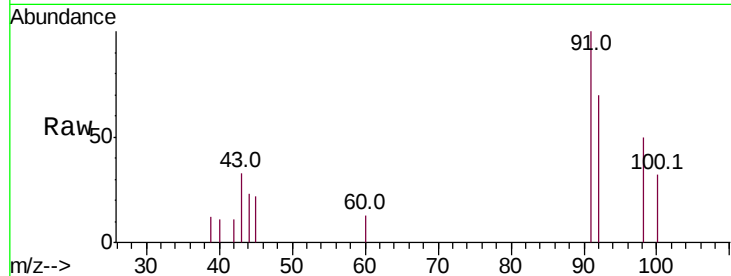
PB133472ZHE#01

Tot Ion: 92 Resp: 1524

Ion Ratio Lower Upper

92 100

91 174.1 139.1 208.7



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

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

1500

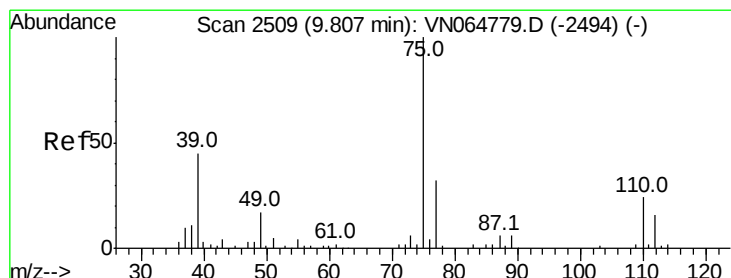
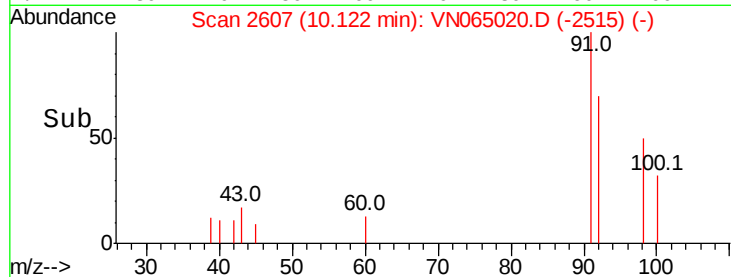
1000

500

0

10.10 10.12 10.15

Time-->



#54

cis-1,3-Dichloropropene

Concen: 7.801 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

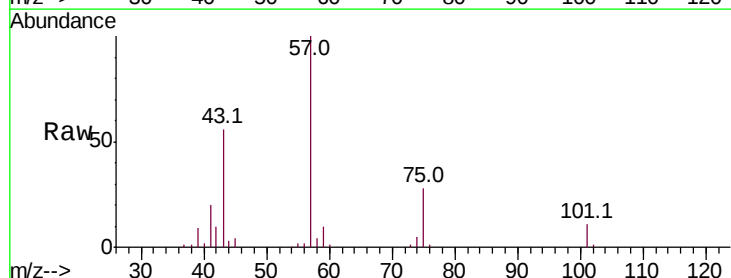
Tgt Ion: 75 Resp: 27666

Ion Ratio Lower Upper

75 100

77 0.0 25.5 38.3#

39 33.7 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) (-)

20000

15000

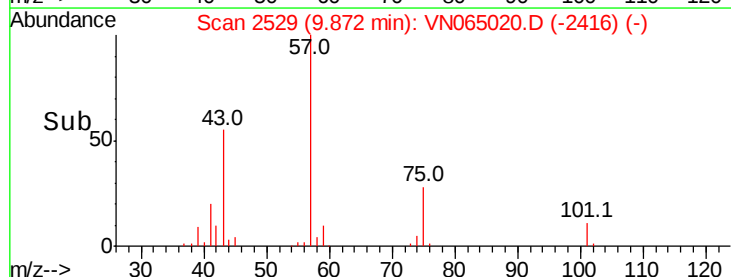
10000

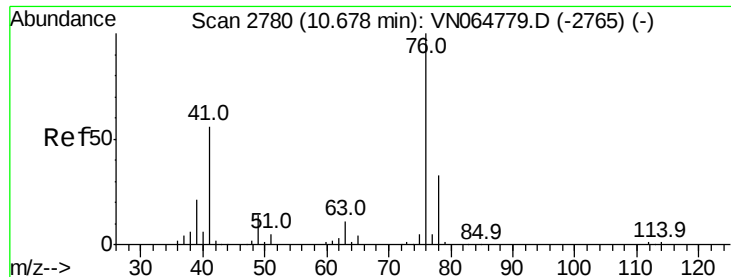
5000

0

9.80 9.85 9.87 9.90 9.95

Time-->





#57

1,3-Dichloropropane

Concen: 4.828 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

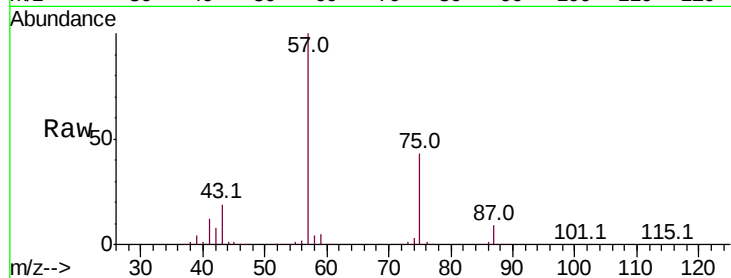
PB133472ZHE#01

Tot Ion: 76 Resp: 17210

Ion Ratio Lower Upper

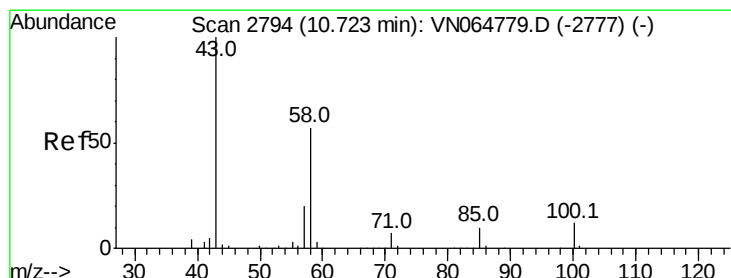
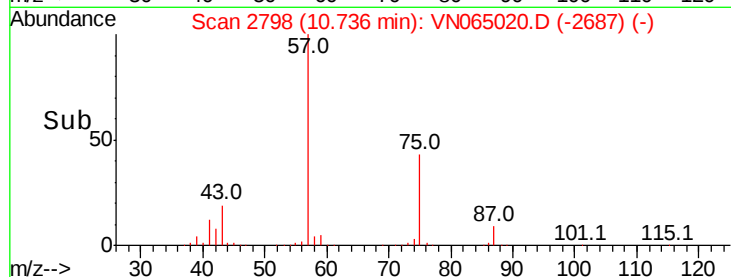
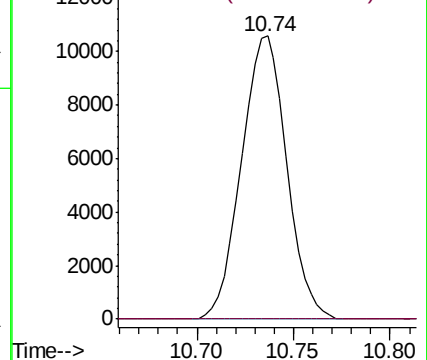
76 100

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: 122.877 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.01 min

Lab File: VN065020.D

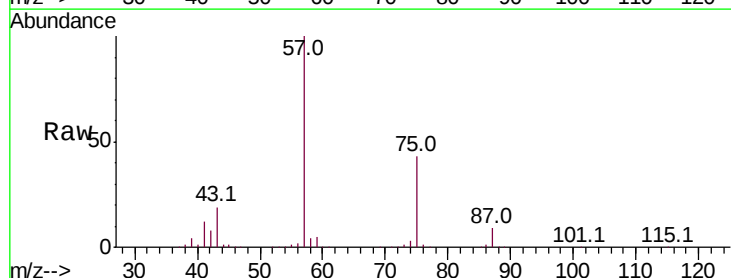
Acq: 9 Dec 2020 15:02

Tgt Ion: 43 Resp: 229161

Ion Ratio Lower Upper

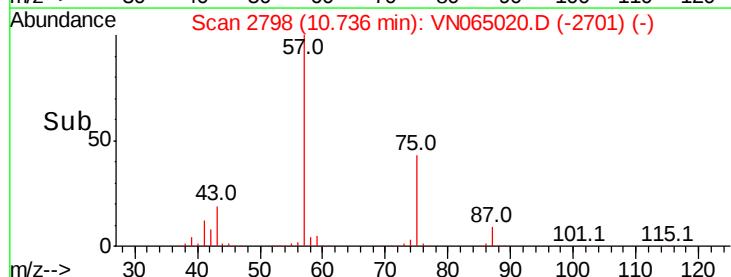
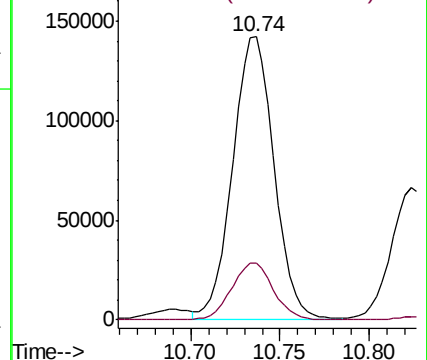
43 100

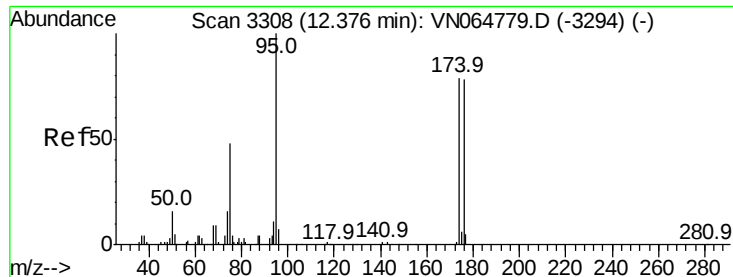
58 20.3 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 55.662 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#01

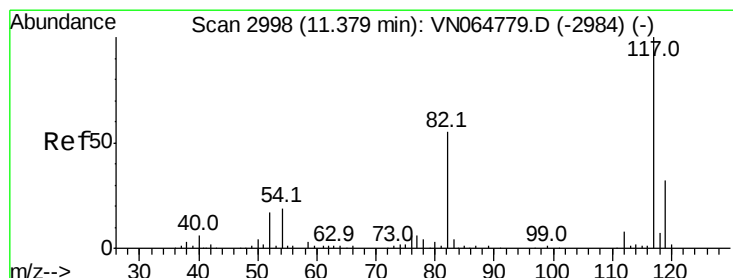
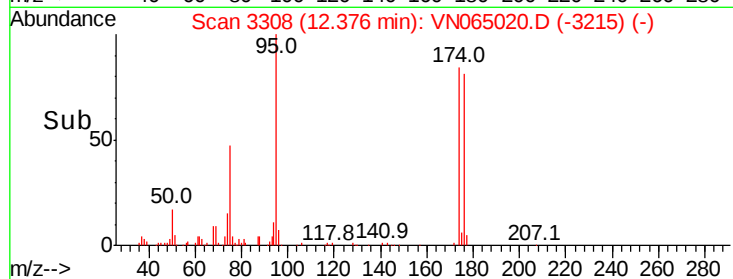
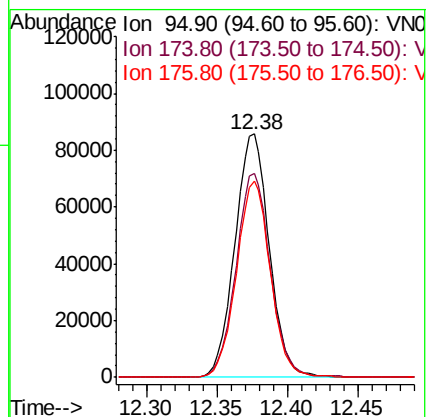
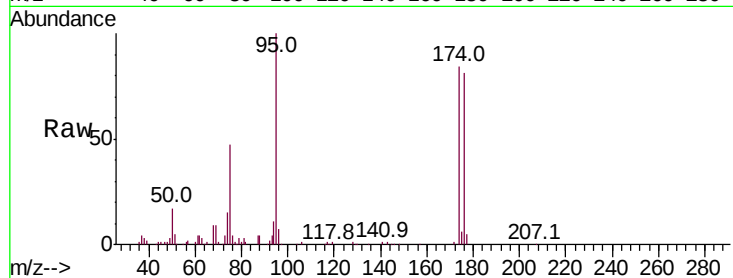
Tot Ion: 95 Resp: 146322

Ion Ratio Lower Upper

95 100

174 84.0 0.0 160.4

176 79.6 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: VN065020.D

Acq: 9 Dec 2020 15:02

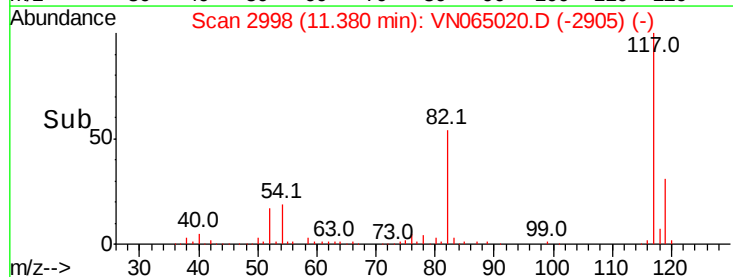
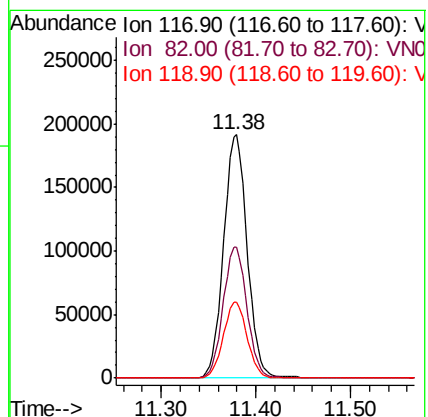
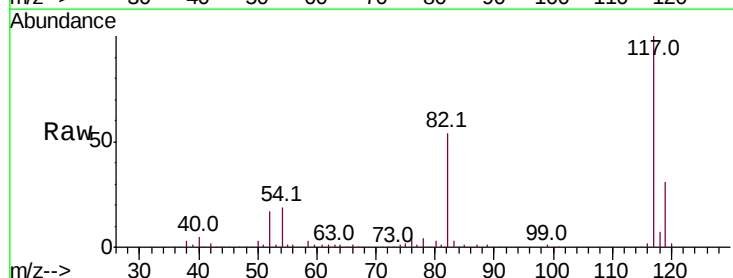
Tgt Ion: 117 Resp: 331722

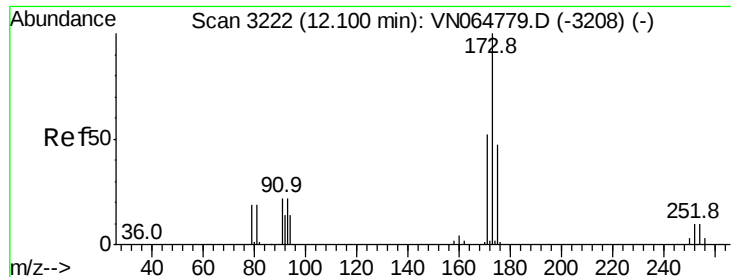
Ion Ratio Lower Upper

117 100

82 53.8 44.2 66.2

119 31.4 25.8 38.6

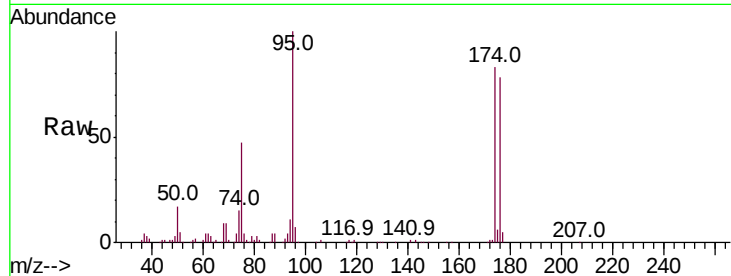




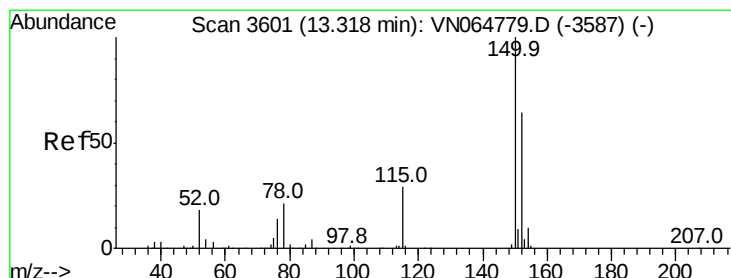
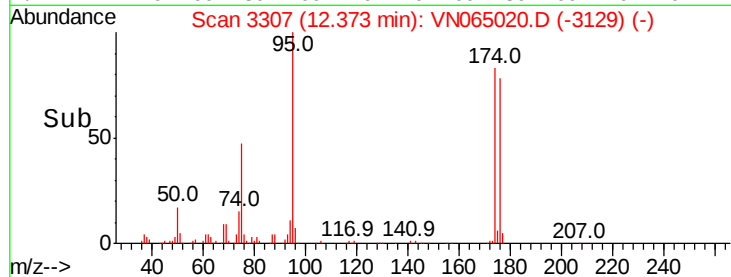
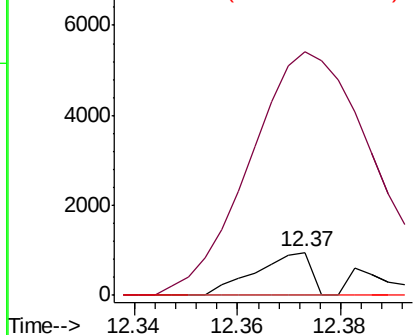
#71
Bromoform
Concen: 0.335 ug/l
RT: 12.37 min Scan# 3307
Delta R.T. 0.27 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Instrument :
MSVOA_N
ClientSampleId :
PB133472ZHE#01

Tot Ion:173 Resp: 701
Ion Ratio Lower Upper
173 100
175 1118.0 24.3 72.8#
254 0.0 0.0 0.0

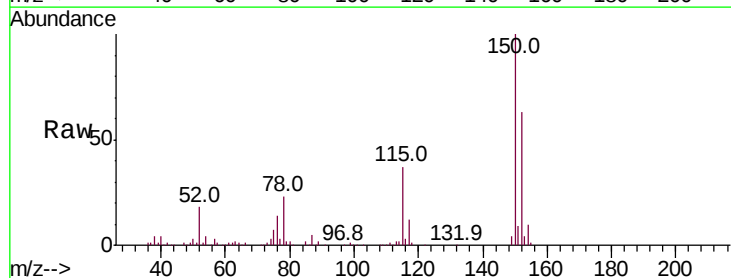


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

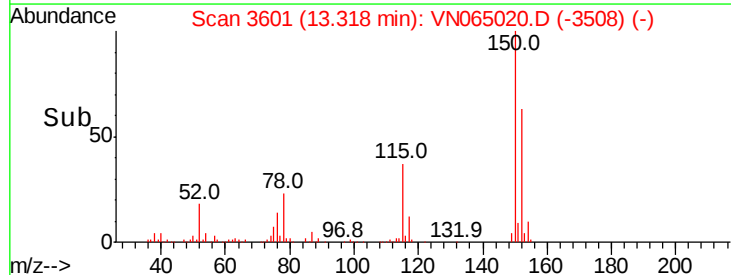
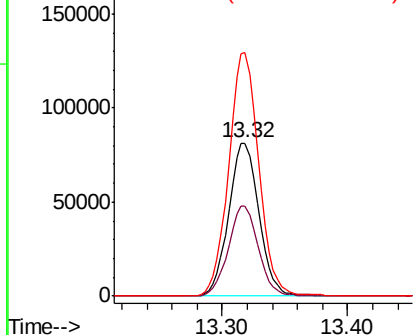


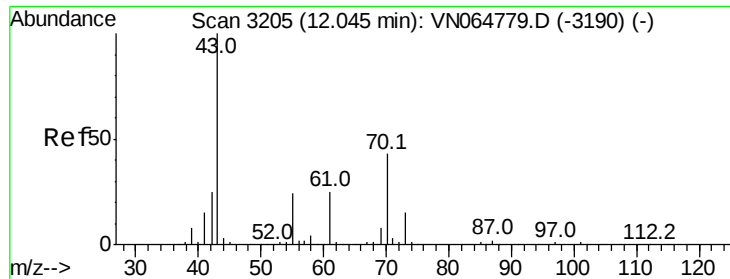
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN065020.D
Acq: 9 Dec 2020 15:02

Tgt Ion:152 Resp: 136992
Ion Ratio Lower Upper
152 100
115 58.3 29.7 89.1
150 157.1 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: 2.697 ug/l

RT: 11.85 min Scan# 3145

Delta R.T. -0.19 min

Lab File: VN065020.D

Acq: 9 Dec 2020 15:02

Instrument :

MSVOA_N

ClientSampleId :

PB133472ZHE#01

Tot Ion: 43 Resp: 10112

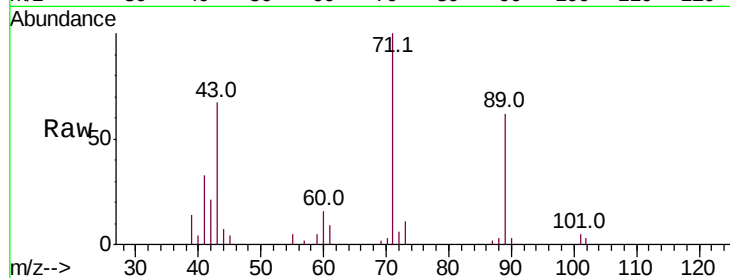
Ion Ratio Lower Upper

43 100

70 2.2 34.5 51.7#

55 5.7 20.4 30.6#

61 10.8 20.0 30.0#

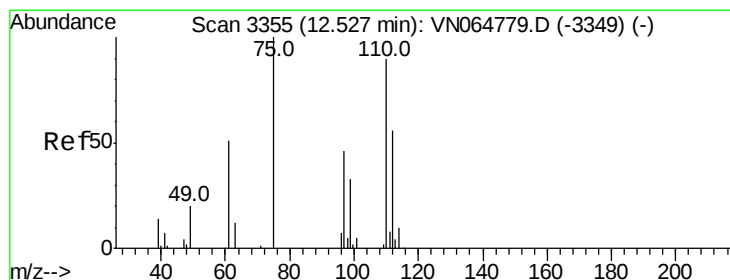
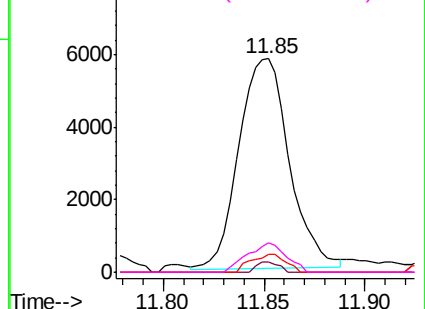
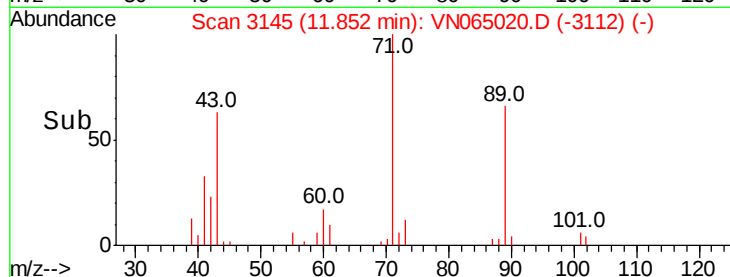


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 23.201 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN065020.D

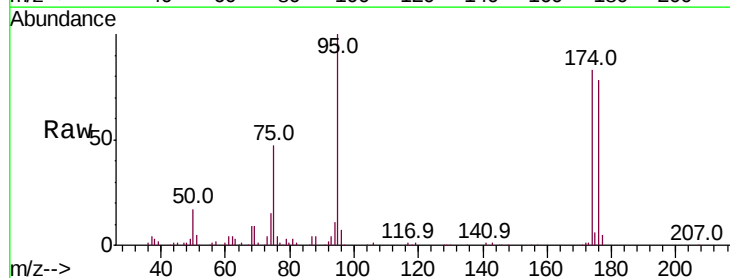
Acq: 9 Dec 2020 15:02

Tgt Ion: 75 Resp: 68449

Ion Ratio Lower Upper

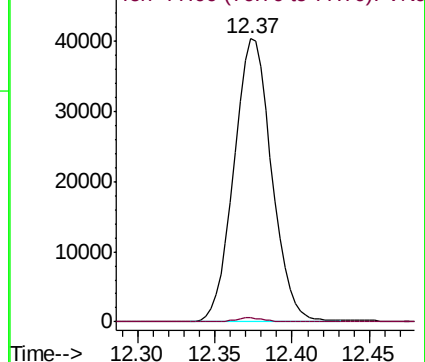
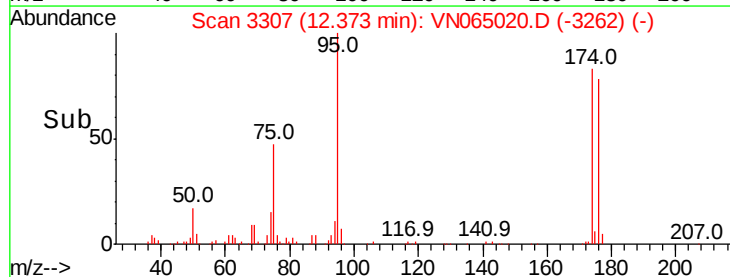
75 100

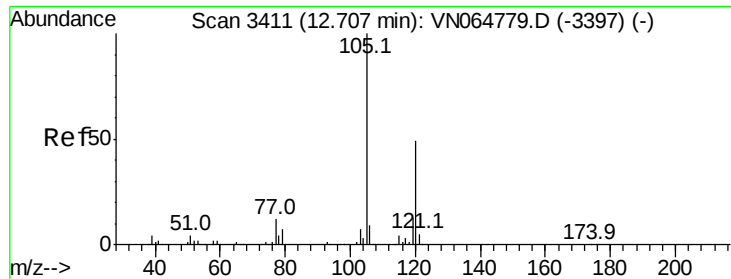
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

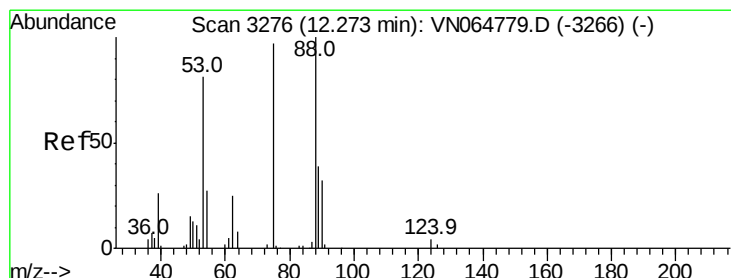
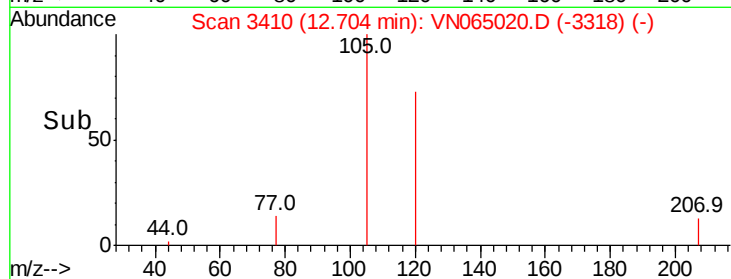
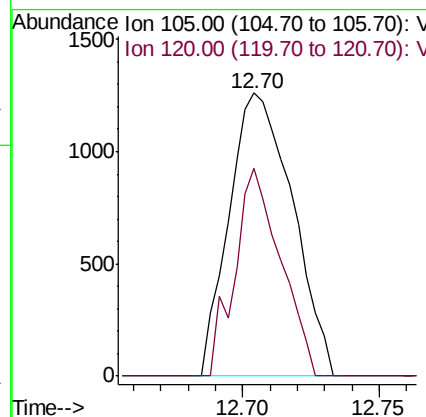
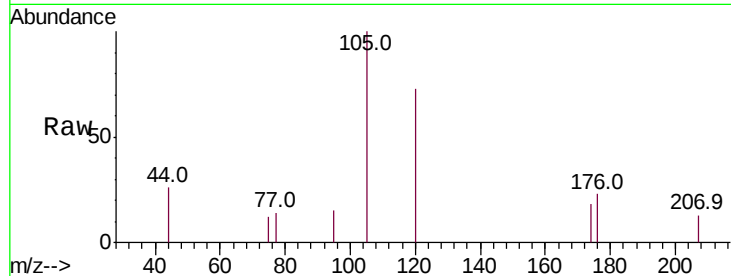




#80
 1,3,5-Trimethylbenzene
 Concen: 0.257 ug/l
 RT: 12.70 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN065020.D
 Acq: 9 Dec 2020 15:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133472ZHE#01

Tot Ion:105 Resp: 2035
 Ion Ratio Lower Upper
 105 100
 120 53.2 24.6 73.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.589 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN065020.D
 Acq: 9 Dec 2020 15:02

Tgt Ion: 75 Resp: 68449
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.0 100.4#
 89 0.0 39.6 59.4#

