

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN121020\
 Data File : VN065055.D
 Acq On : 10 Dec 2020 20:32
 Operator : JC/MD
 Sample : PB133501ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#03

Quant Time: Dec 11 03:47:39 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 10 16:04:22 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	163344	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	303537	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	336179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	136995	50.00	ug/l	0.00

System Monitoring Compounds

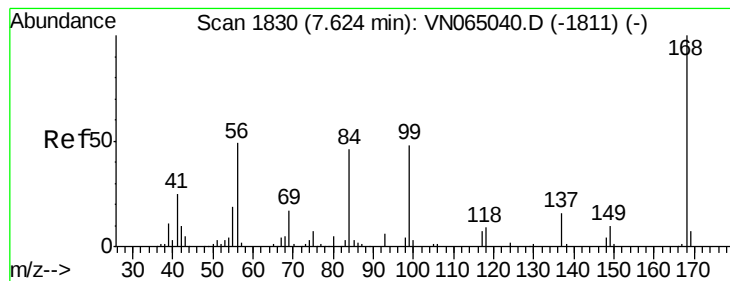
33) 1,2-Dichloroethane-d4	7.99	65	107432	55.24	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	110.48%		
35) Dibromofluoromethane	7.55	113	99690	49.64	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	99.28%		
50) Toluene-d8	10.06	98	400119	51.94	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	103.88%		
62) 4-Bromofluorobenzene	12.38	95	150327	56.93	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	113.86%		

Target Compounds

	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	65	Below Cal	#	42
11) Tert butyl alcohol	4.73	59	123	0.522	ug/l #	72
16) Acetone	3.78	43	6190	8.974	ug/l	93
18) Methyl Acetate	4.29	43	721	0.415	ug/l #	50
20) Methylene Chloride	4.50	84	6500	3.699	ug/l #	96
25) 2-Butanone	6.80	43	2499	2.627	ug/l #	89
29) Tetrahydrofuran	7.18	42	959	1.606	ug/l #	40
31) Cyclohexane	7.62	56	2877	2.636	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	11549	4.461	ug/l #	49
37) Ethyl Acetate	6.80	43	2499	1.062	ug/l #	67
38) Carbon Tetrachloride	7.62	117	15373	5.589	ug/l #	16
41) Methacrylonitrile	7.17	41	371	0.303	ug/l #	39
43) Isopropyl Acetate	8.13	43	14524	3.712	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1002	0.462	ug/l #	45
48) Methyl methacrylate	9.15	41	4092	2.203	ug/l #	12
51) 4-Methyl-2-Pentanone	9.95	43	3992	1.706	ug/l	92
54) cis-1,3-Dichloropropene	9.87	75	27430	7.995	ug/l #	67
57) 1,3-Dichloropropane	10.74	76	16288	4.759	ug/l #	42
59) 2-Hexanone	10.74	43	218151	129.441	ug/l #	50
71) Bromoform	12.37	173	565	0.281	ug/l #	1
76) 1,2,3-Trichloropropane	12.38	75	69879	26.186	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	69879	74.533	ug/l #	15

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

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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN121020\
Data File : VN065055.D
Acq On    : 10 Dec 2020   20:32
Operator  : JC/MD
Sample    : PB133501ZHE#03
Misc      : 5.00mL/MSVOA_N/WATER
ALS Vial  : 21      Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

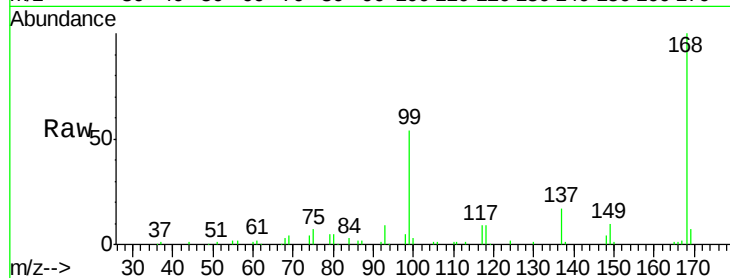
PB133501ZHE#03

Tgt Ion: 168 Resp: 163344

Ion Ratio Lower Upper

168 100

99 54.2 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN065040.D (-1811) (-)

Ion 98.90 (98.60 to 99.60): VN065040.D (-1811) (-)

7.63

60000

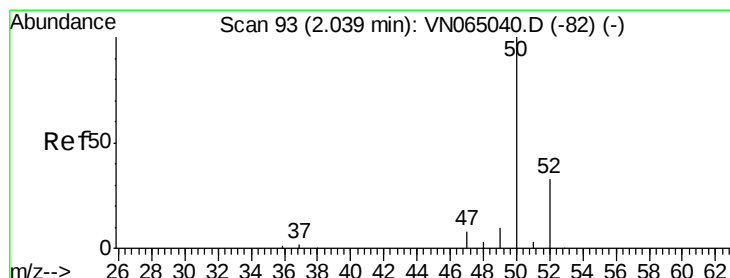
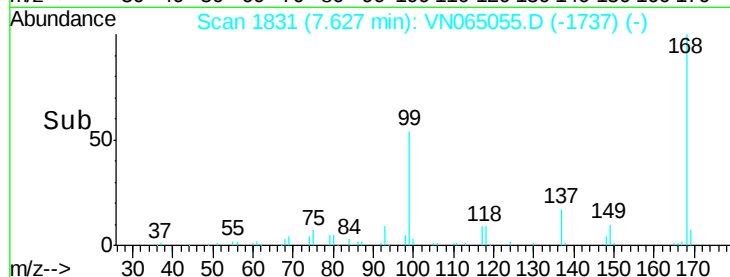
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 94

Delta R.T. 0.00 min

Lab File: VN065055.D

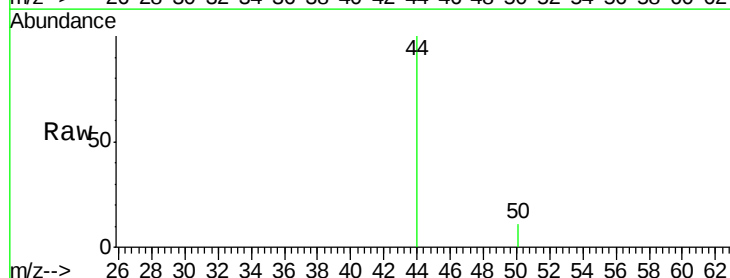
Acq: 10 Dec 2020 20:32

Tgt Ion: 50 Resp: 65

Ion Ratio Lower Upper

50 100

52 0.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VN065040.D (-82) (-)

Ion 51.90 (51.60 to 52.60): VN065040.D (-82) (-)

2.04

200

150

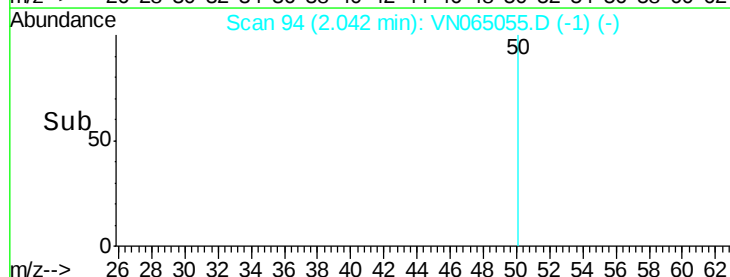
100

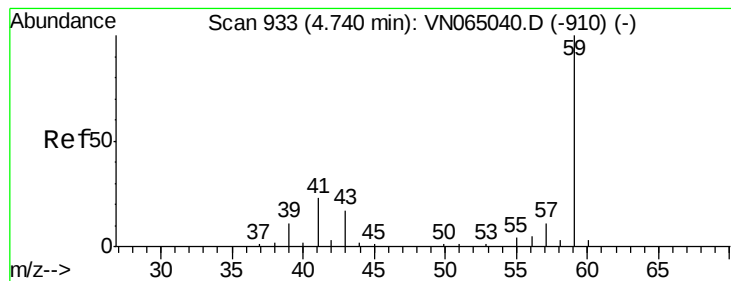
50

0

2.03 2.04 2.05

Time-->





#11

Tert butyl alcohol

Concen: 0.522 ug/l

RT: 4.73 min Scan# 930

Delta R.T. -0.01 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

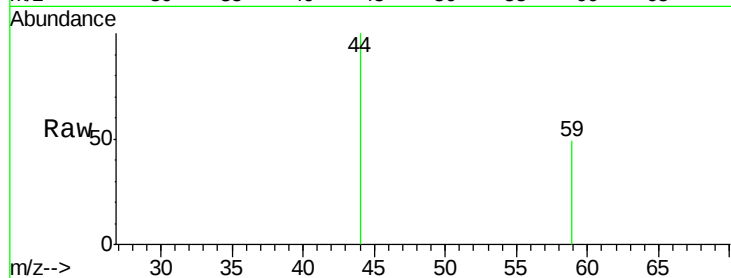
PB133501ZHE#03

Tgt Ion: 59 Resp: 123

Ion Ratio Lower Upper

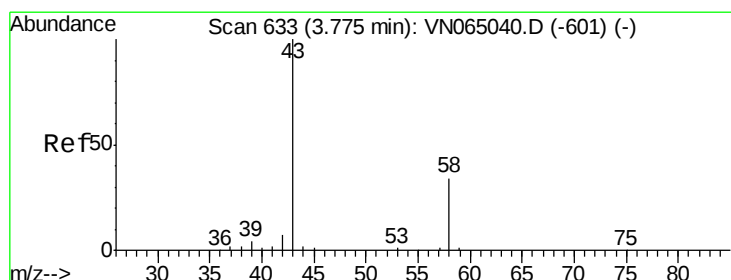
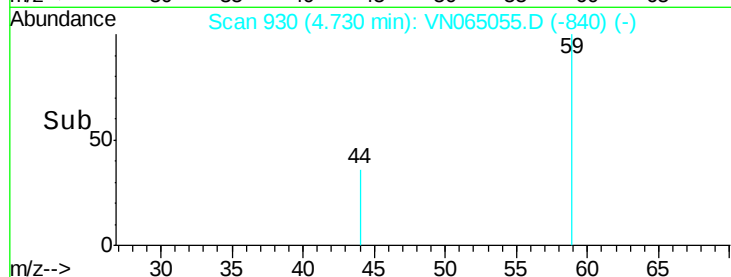
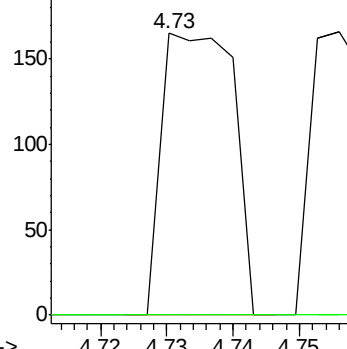
59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#16

Acetone

Concen: 8.974 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN065055.D

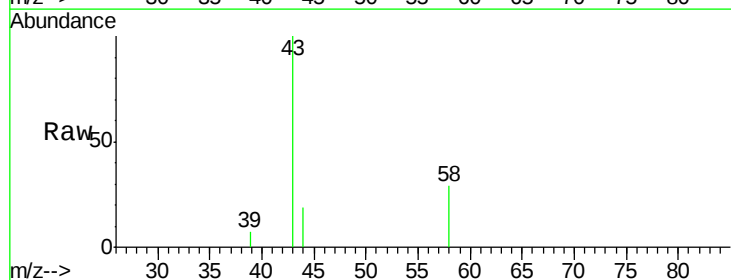
Acq: 10 Dec 2020 20:32

Tgt Ion: 43 Resp: 6190

Ion Ratio Lower Upper

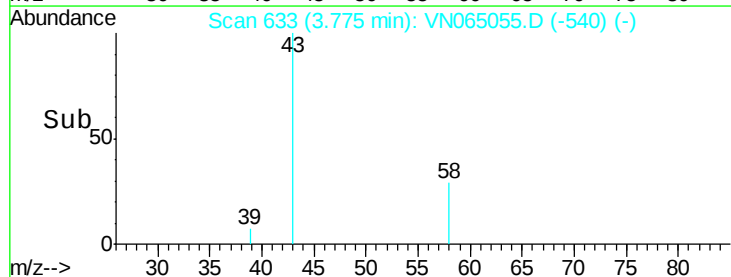
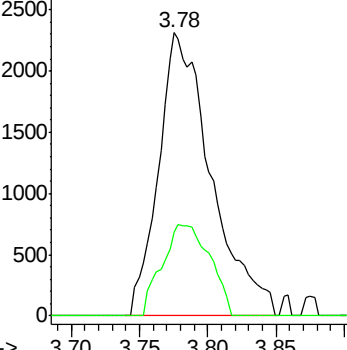
43 100

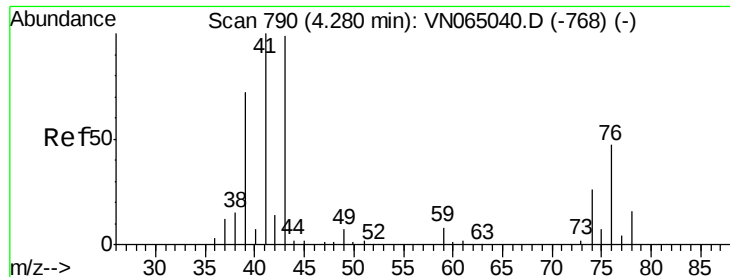
58 29.4 26.8 40.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#18

Methyl Acetate

Concen: 0.415 ug/l

RT: 4.29 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

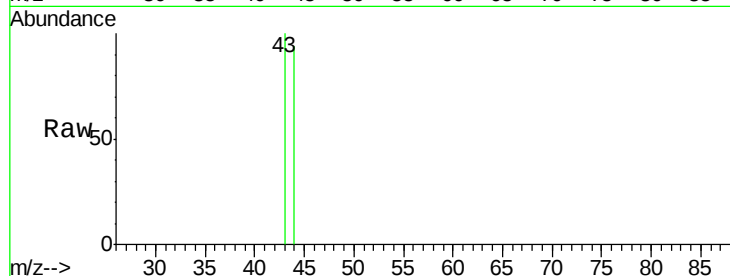
PB133501ZHE#03

Tgt Ion: 43 Resp: 721

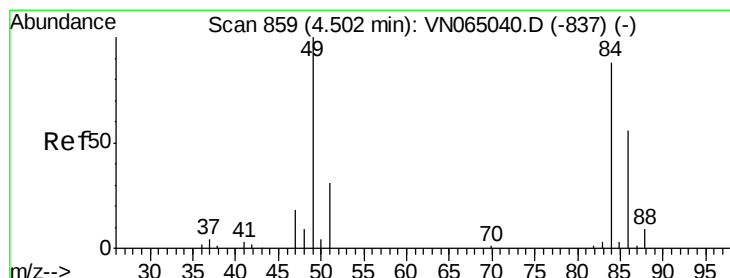
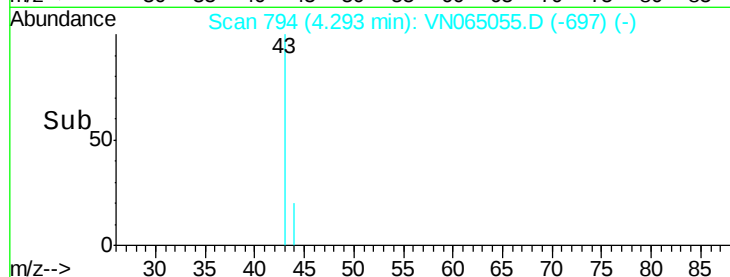
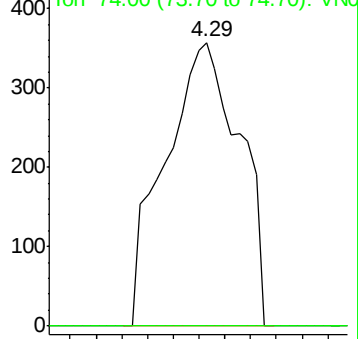
Ion Ratio Lower Upper

43 100

74 0.0 20.1 30.1#



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-768) (-)



#20

Methylene Chloride

Concen: 3.699 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Tgt Ion: 84 Resp: 6500

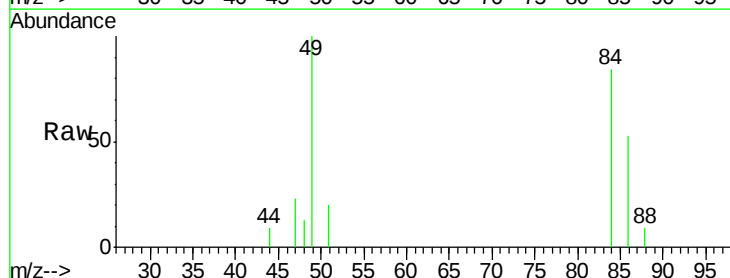
Ion Ratio Lower Upper

84 100

49 112.0 90.8 136.2

51 24.2 28.1 42.1#

86 63.6 51.3 76.9

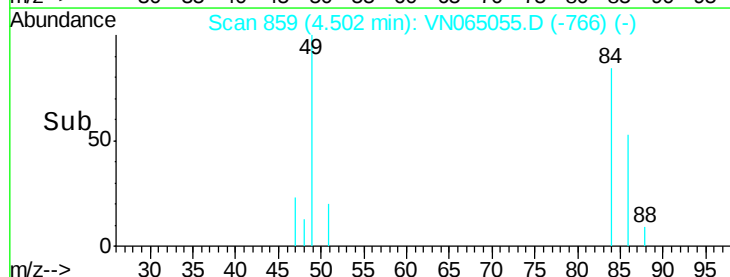
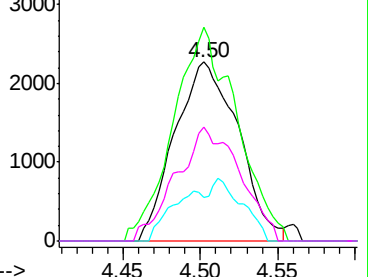


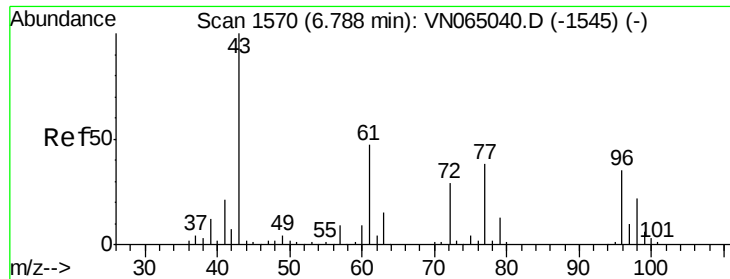
Abundance Ion 83.90 (83.60 to 84.60): VN065040.D (-837) (-)

Ion 48.90 (48.60 to 49.60): VN065040.D (-837) (-)

Ion 50.90 (50.60 to 51.60): VN065040.D (-837) (-)

Ion 85.90 (85.60 to 86.60): VN065040.D (-837) (-)





#25

2-Butanone

Concen: 2.627 ug/l

RT: 6.80 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

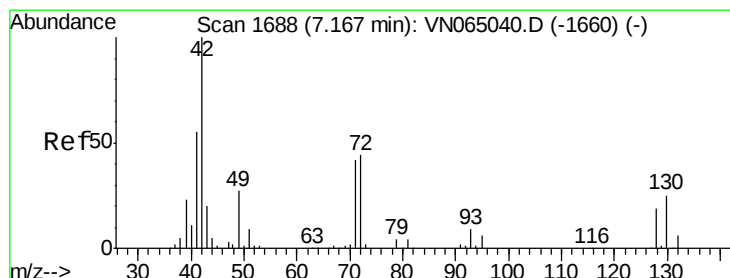
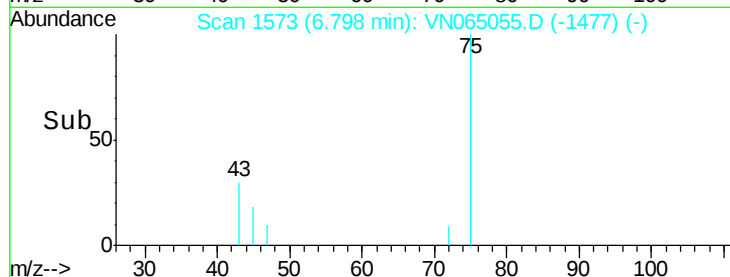
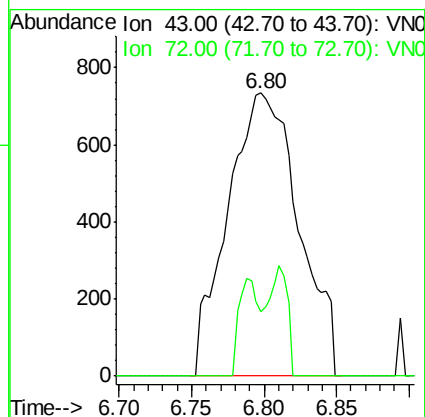
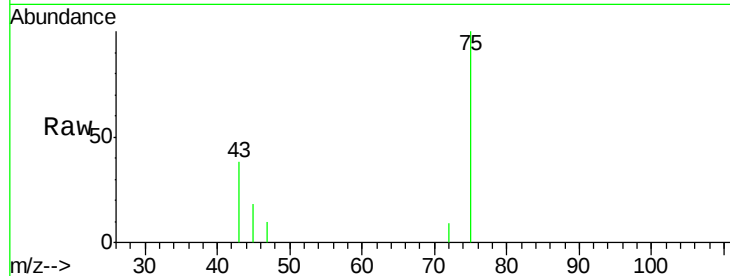
PB133501ZHE#03

Tgt Ion: 43 Resp: 2499

Ion Ratio Lower Upper

43 100

72 22.8 22.9 34.3#



#29

Tetrahydrofuran

Concen: 1.606 ug/l

RT: 7.18 min Scan# 1691

Delta R.T. 0.01 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

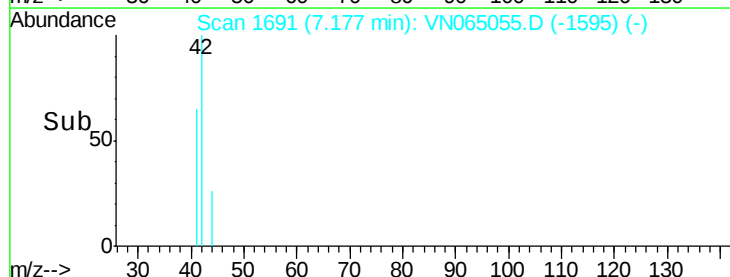
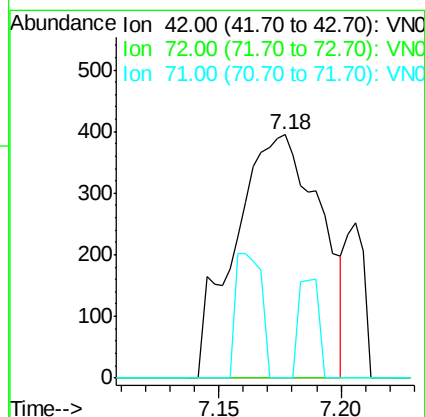
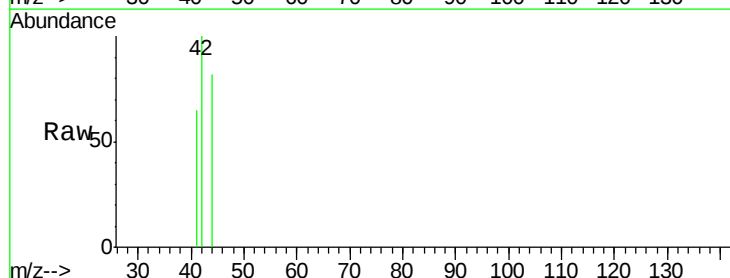
Tgt Ion: 42 Resp: 959

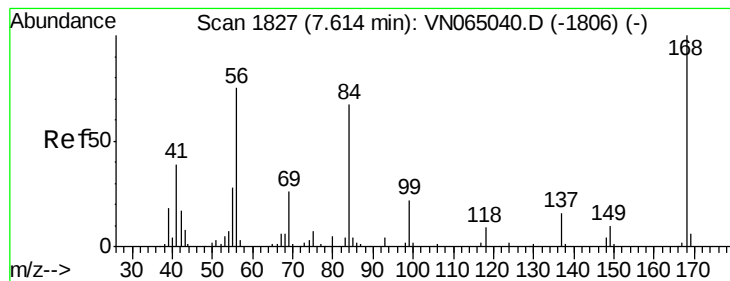
Ion Ratio Lower Upper

42 100

72 0.0 35.8 53.6#

71 9.6 33.5 50.3#





#31

Cyclohexane

Concen: 2.636 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#03

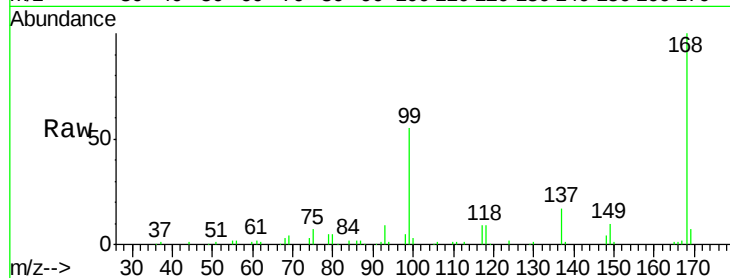
Tgt Ion: 56 Resp: 2877

Ion Ratio Lower Upper

56 100

69 188.4 27.5 41.3#

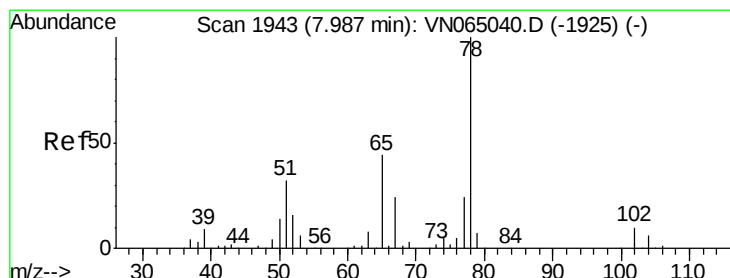
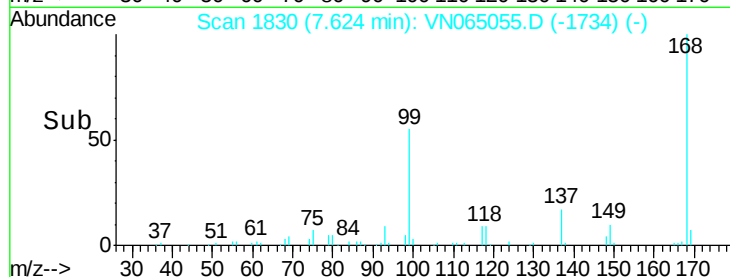
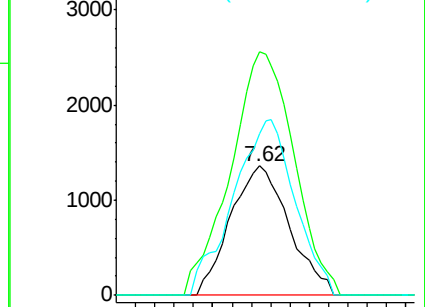
84 124.7 72.4 108.6#



Abundance Ion 56.00 (55.70 to 56.70): VN065040.D (-1806) (-)

Ion 69.00 (68.70 to 69.70): VN065040.D (-1806) (-)

Ion 84.00 (83.70 to 84.70): VN065040.D (-1806) (-)



#33

1,2-Dichloroethane-d4

Concen: 55.242 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN065055.D

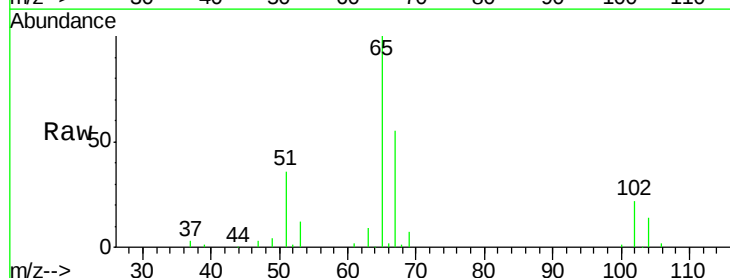
Acq: 10 Dec 2020 20:32

Tgt Ion: 65 Resp: 107432

Ion Ratio Lower Upper

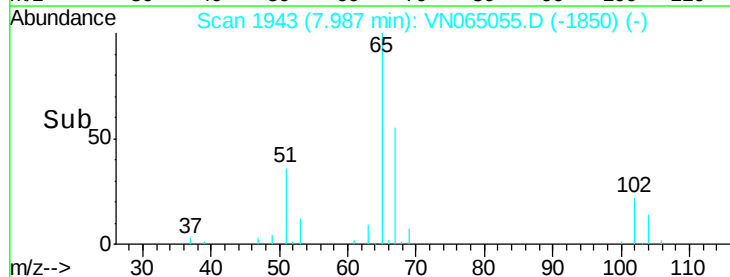
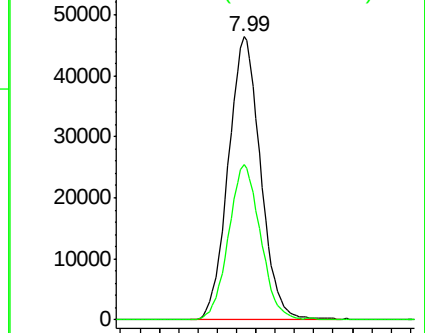
65 100

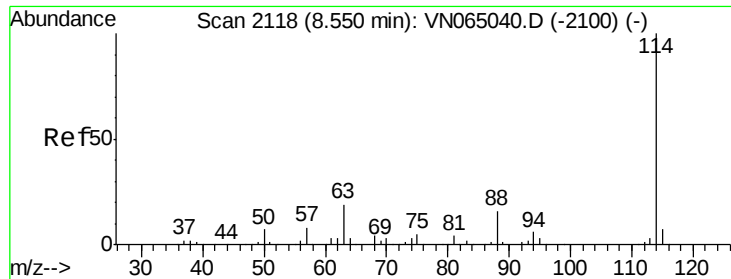
67 54.2 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN065040.D (-1925) (-)

Ion 66.90 (66.60 to 67.60): VN065040.D (-1925) (-)

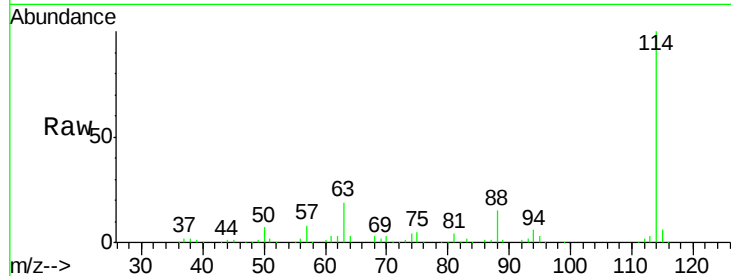




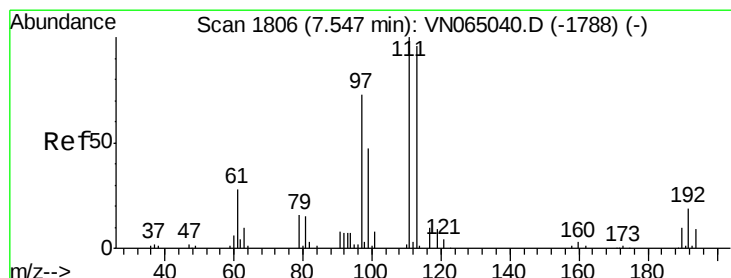
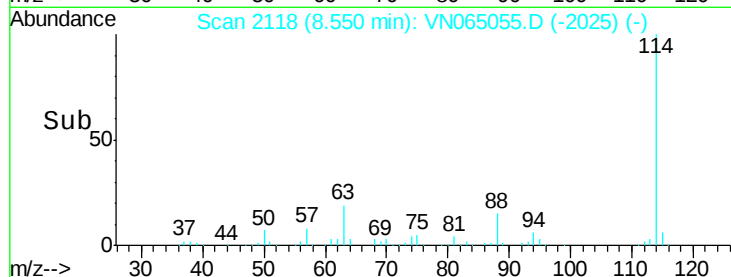
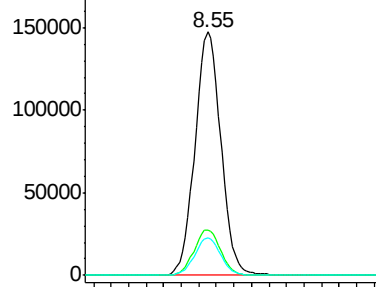
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	38.2
88	15.2	0.0	31.6

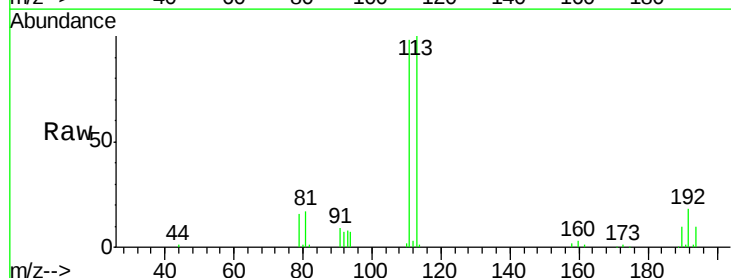


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

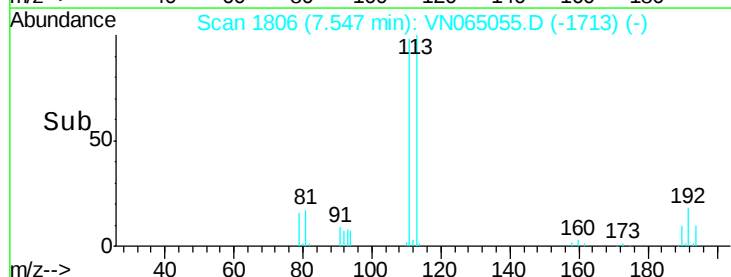
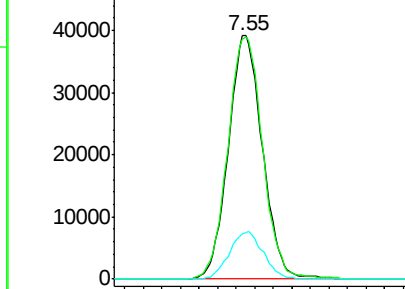


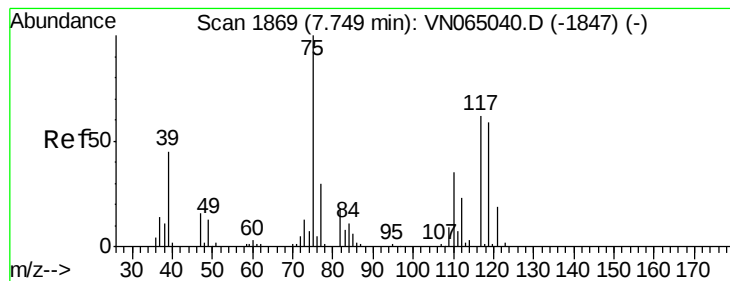
#35
 Dibromofluoromethane
 Concen: 49.644 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	83.4	125.0
192	19.3	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

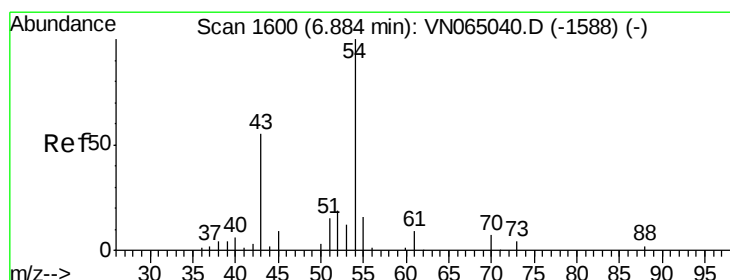
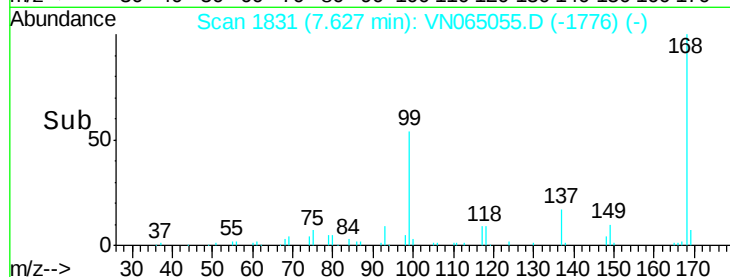
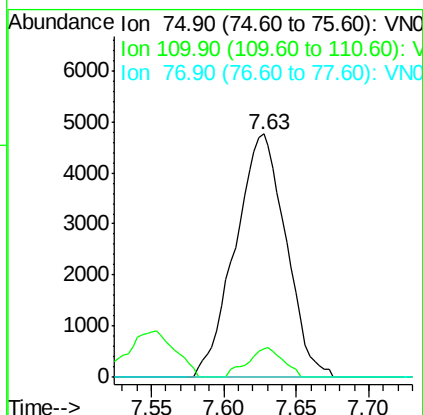
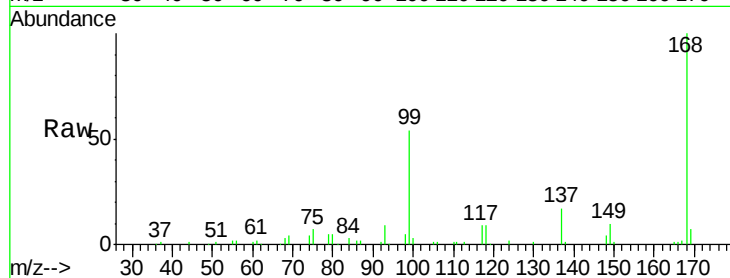




#36
 1,1-Dichloropropene
 Concen: 4.461 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.12 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

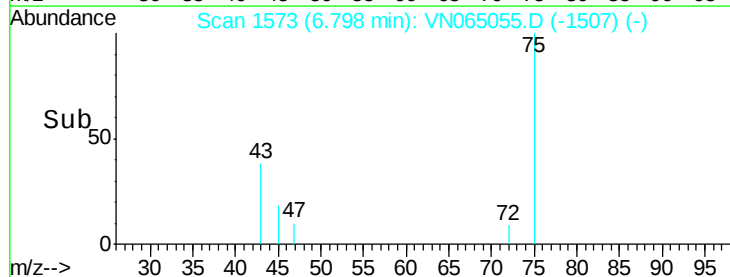
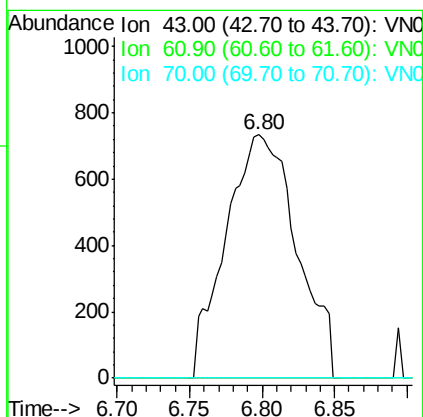
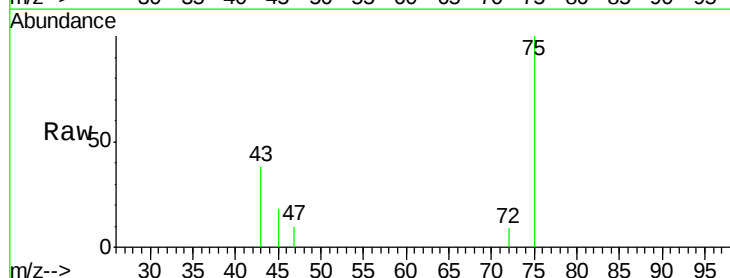
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#03

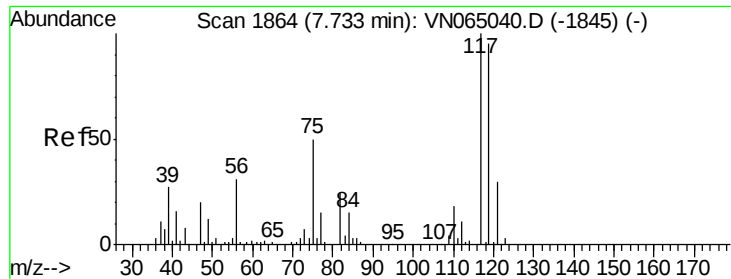
Tgt Ion: 75 Resp: 11549
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.1#
 77 0.0 24.5 36.7#



#37
 Ethyl Acetate
 Concen: 1.062 ug/l
 RT: 6.80 min Scan# 1573
 Delta R.T. -0.09 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

Tgt Ion: 43 Resp: 2499
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.9 17.9#
 70 0.0 9.2 13.8#





#38

Carbon Tetrachloride

Concen: 5.589 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. -0.11 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#03

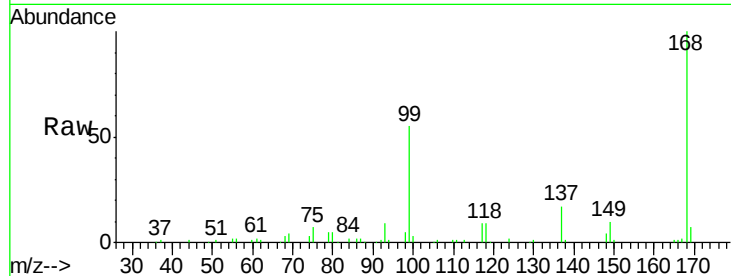
Tgt Ion:117 Resp: 15373

Ion Ratio Lower Upper

117 100

119 5.1 75.9 113.9#

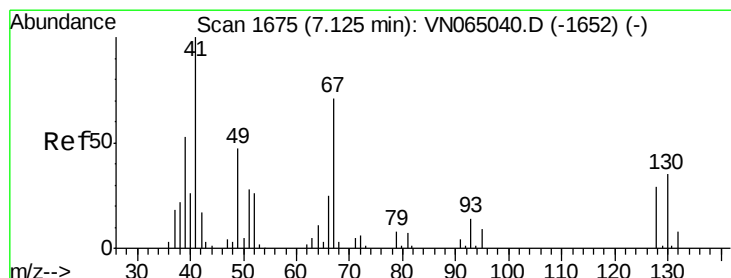
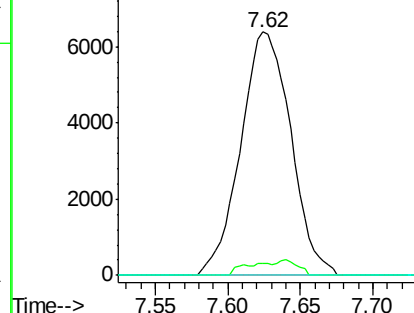
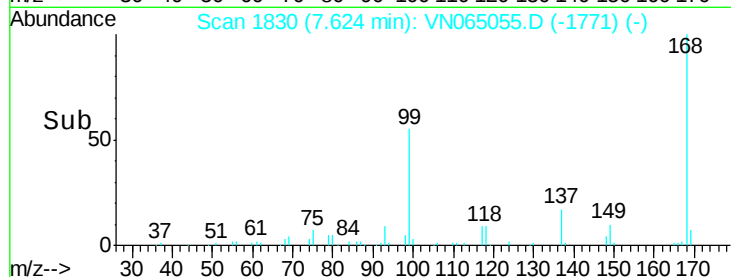
121 0.0 24.1 36.1#



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: 0.303 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.05 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Tgt Ion: 41 Resp: 371

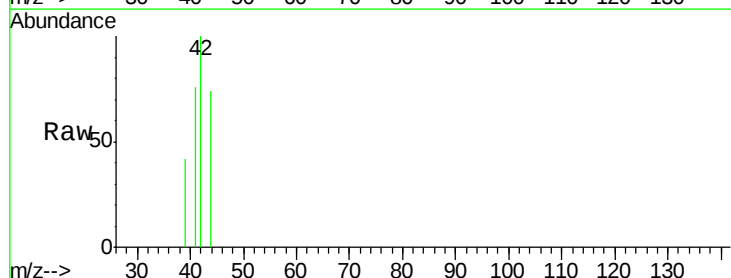
Ion Ratio Lower Upper

41 100

39 38.5 36.0 54.0

67 0.0 64.8 97.2#

52 0.0 25.4 38.2#

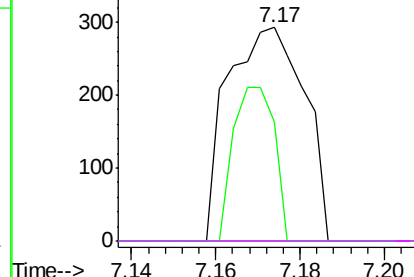
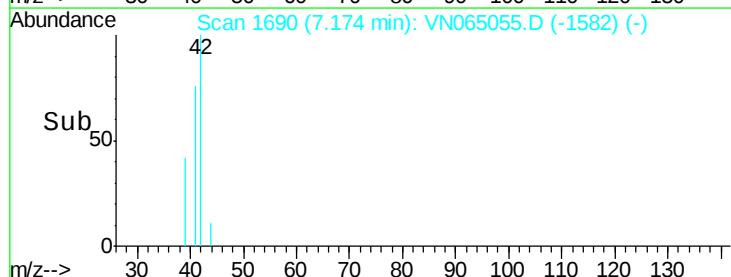


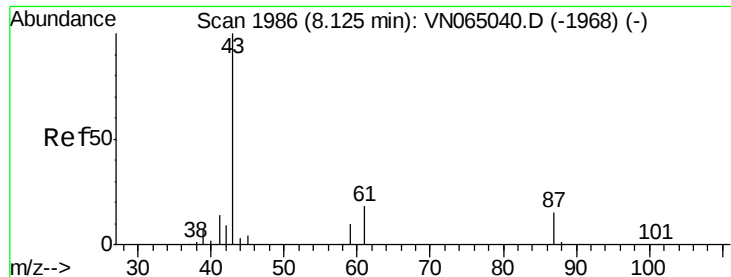
Abundance Ion 41.00 (40.70 to 41.70): V

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: 3.712 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#03

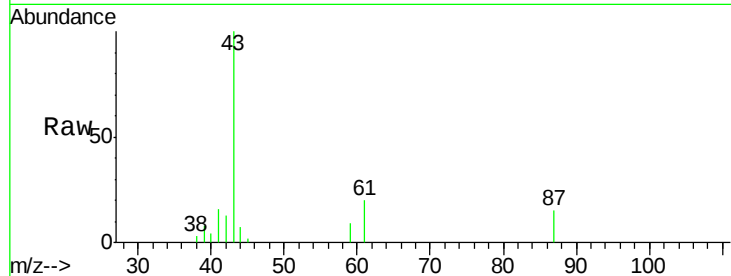
Tgt Ion: 43 Resp: 14524

Ion Ratio Lower Upper

43 100

61 20.8 16.9 25.3

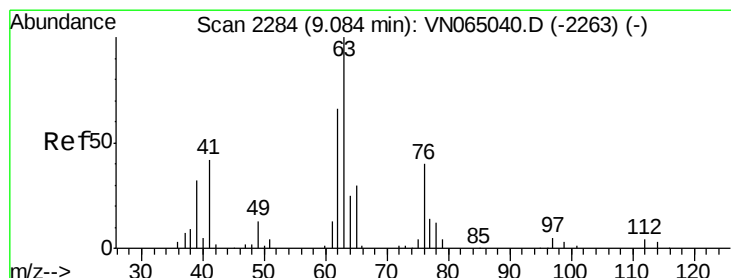
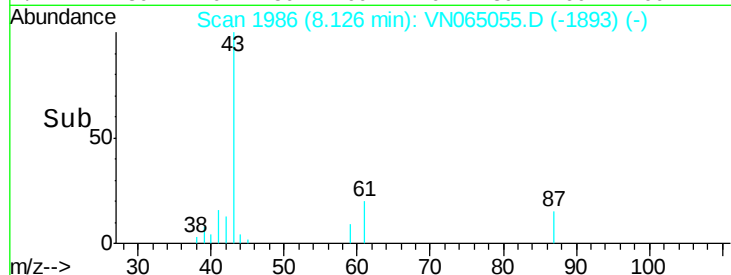
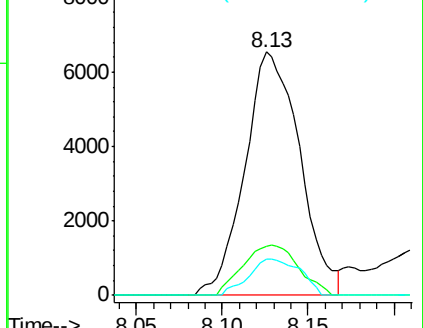
87 13.7 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN065040.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN065040.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.462 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN065055.D

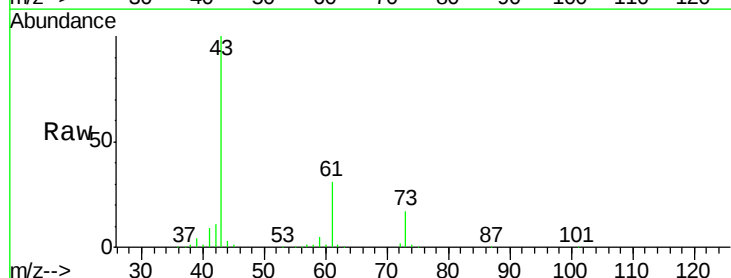
Acq: 10 Dec 2020 20:32

Tgt Ion: 63 Resp: 1002

Ion Ratio Lower Upper

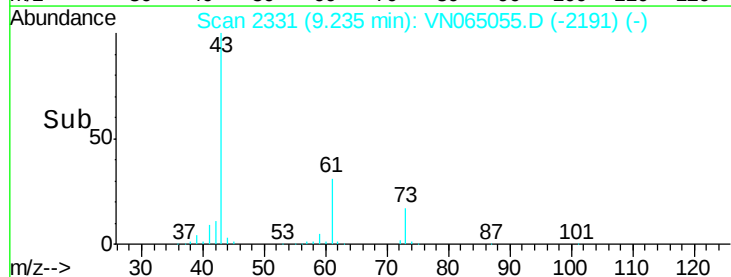
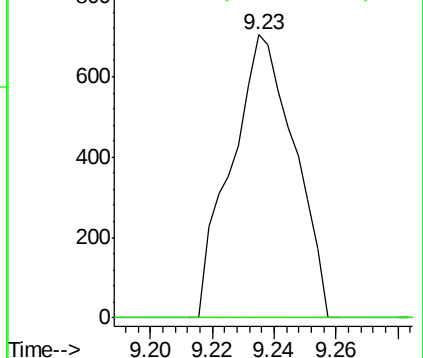
63 100

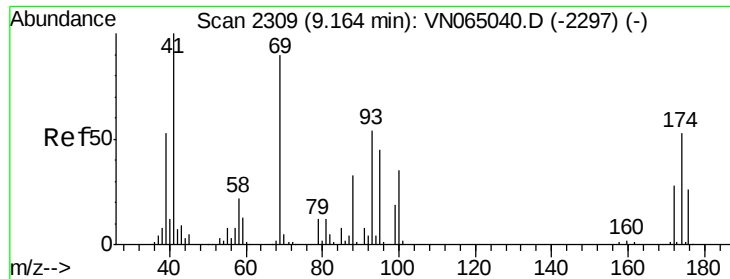
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN065040.D (-2263) (-)

Ion 64.90 (64.60 to 65.60): VN065040.D (-2263) (-)

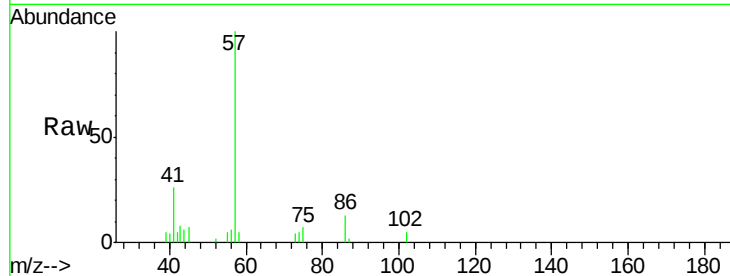




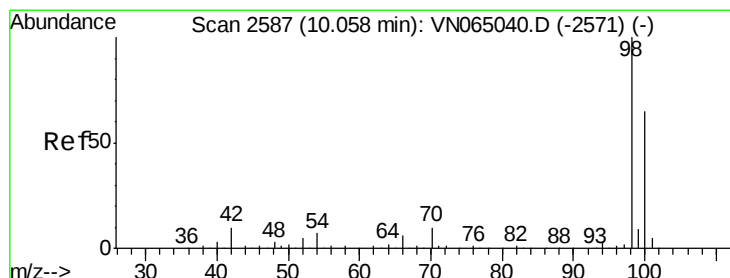
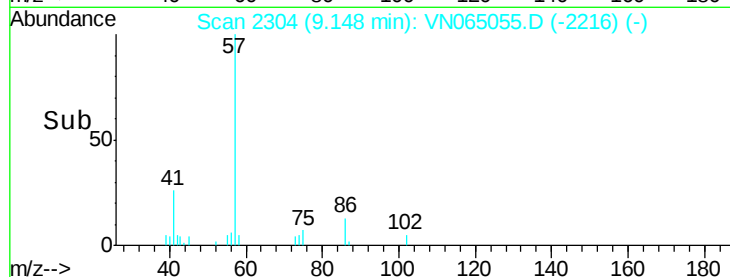
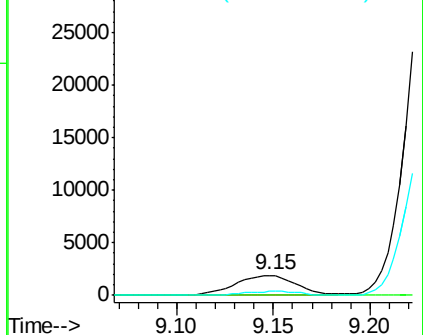
#48
Methyl methacrylate
Concen: 2.203 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN065055.D
Acq: 10 Dec 2020 20:32

Instrument :
MSVOA_N
ClientSampleId :
PB133501ZHE#03

Tgt Ion: 41 Resp: 4092
Ion Ratio Lower Upper
41 100
69 0.0 72.1 108.1#
39 0.0 43.8 65.6#

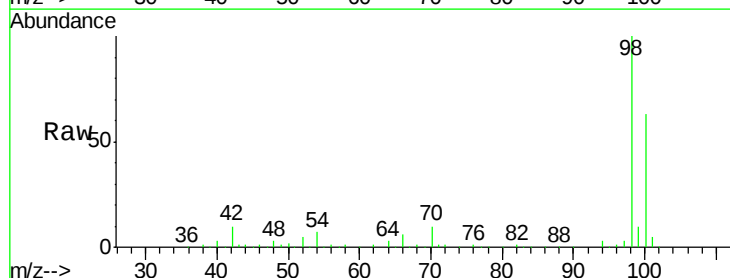


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

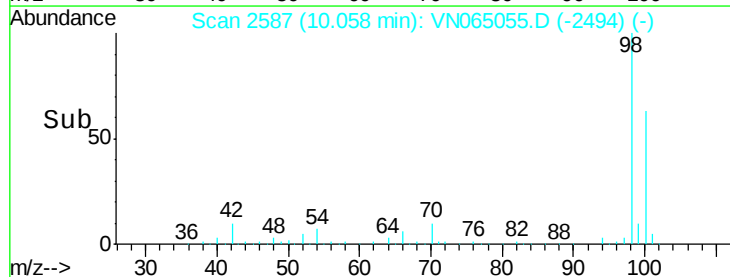
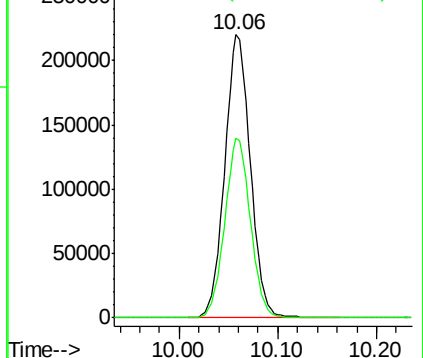


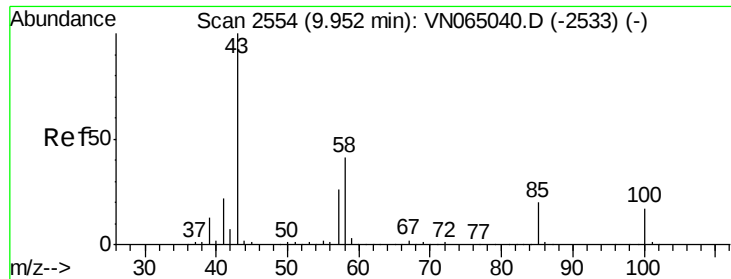
#50
Toluene-d8
Concen: 51.936 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN065055.D
Acq: 10 Dec 2020 20:32

Tgt Ion: 98 Resp: 400119
Ion Ratio Lower Upper
98 100
100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

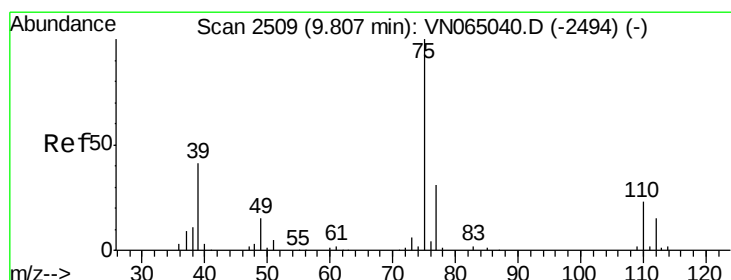
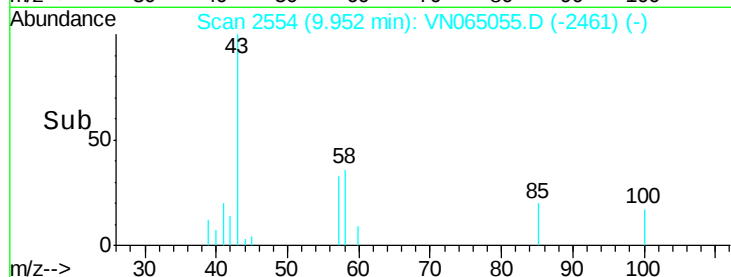
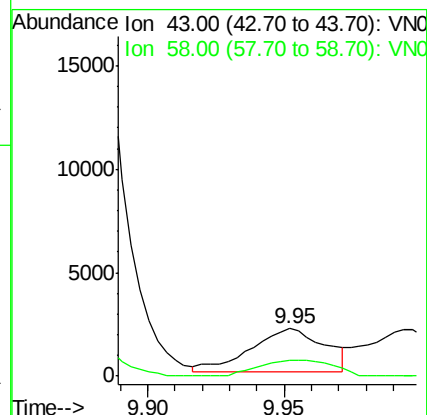
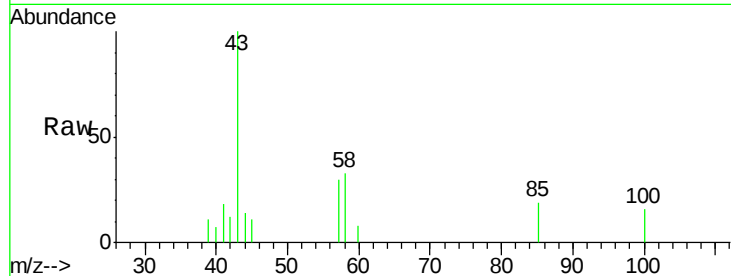




#51
 4-Methyl-2-Pentanone
 Concen: 1.706 ug/l
 RT: 9.95 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

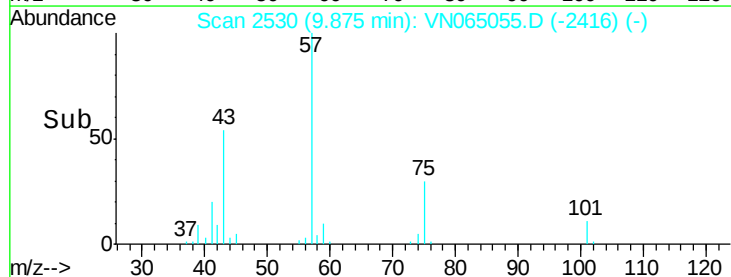
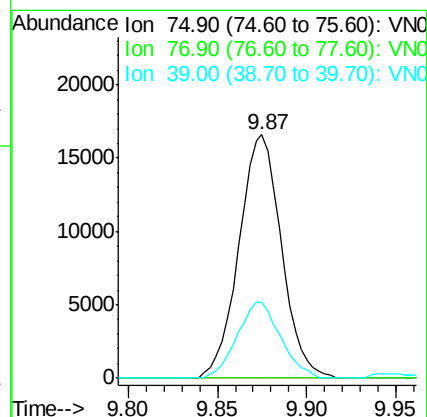
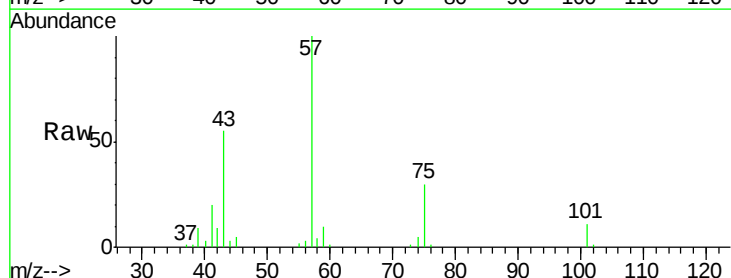
Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#03

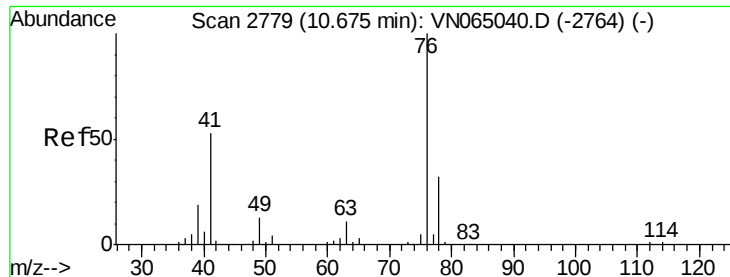
Tgt Ion: 43 Resp: 3992
 Ion Ratio Lower Upper
 43 100
 58 35.6 32.4 48.6



#54
 cis-1,3-Dichloropropene
 Concen: 7.995 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

Tgt Ion: 75 Resp: 27430
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 31.4 33.0 49.4#





#57

1,3-Dichloropropane

Concen: 4.759 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

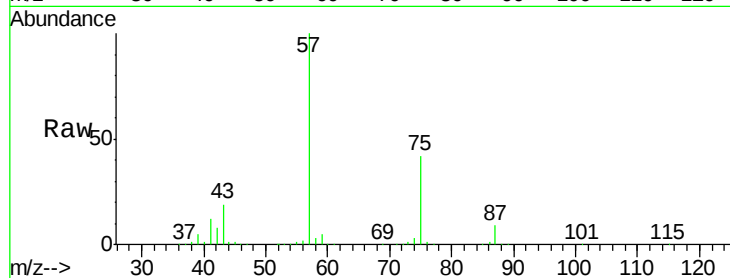
PB133501ZHE#03

Tgt Ion: 76 Resp: 16288

Ion Ratio Lower Upper

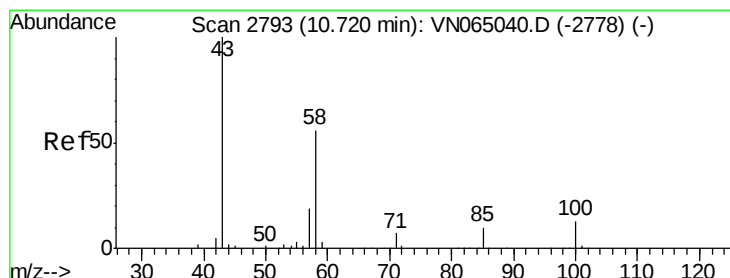
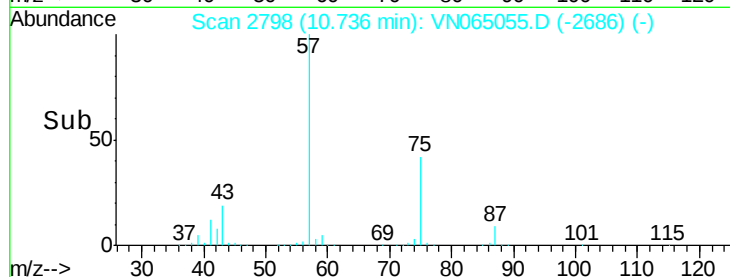
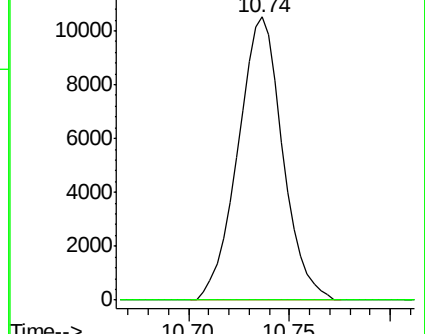
76 100

78 0.0 26.5 39.7#



Abundance Ion 75.90 (75.60 to 76.60): VN065040.D (-2764) (-)

Ion 77.90 (77.60 to 78.60): VN065040.D (-2764) (-)



#59

2-Hexanone

Concen: 129.441 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.02 min

Lab File: VN065055.D

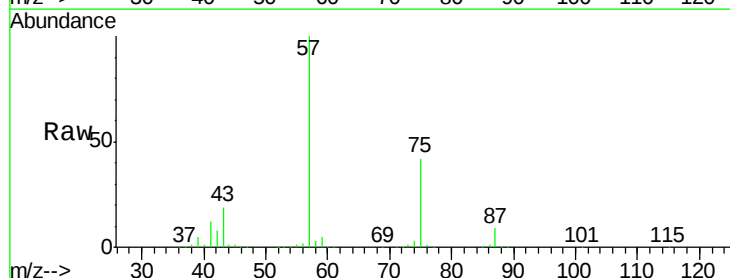
Acq: 10 Dec 2020 20:32

Tgt Ion: 43 Resp: 218151

Ion Ratio Lower Upper

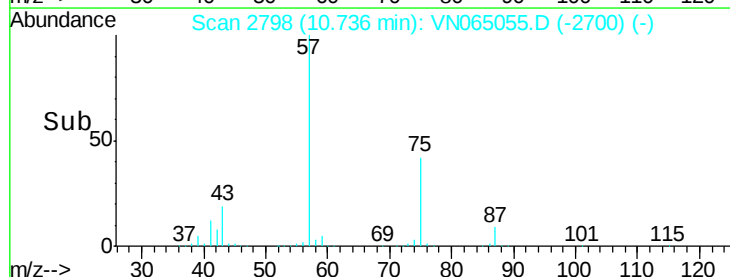
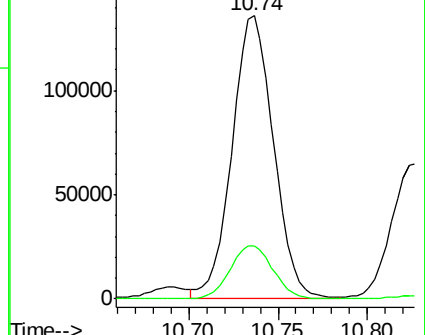
43 100

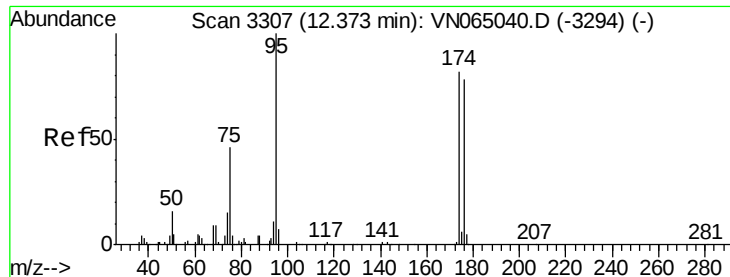
58 19.6 28.3 84.9#



Abundance Ion 43.00 (42.70 to 43.70): VN065040.D (-2778) (-)

Ion 58.00 (57.70 to 58.70): VN065040.D (-2778) (-)





#62

4-Bromofluorobenzene

Concen: 56.930 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#03

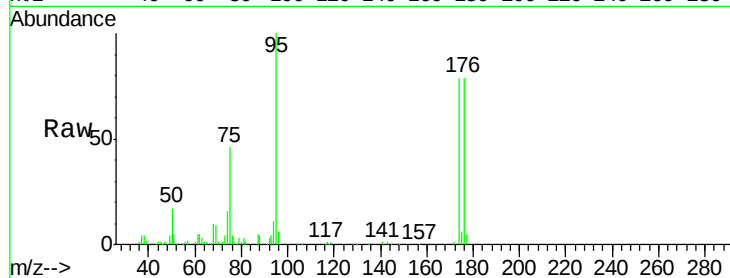
Tgt Ion: 95 Resp: 150327

Ion Ratio Lower Upper

95 100

174 81.2 0.0 164.8

176 78.6 0.0 158.8



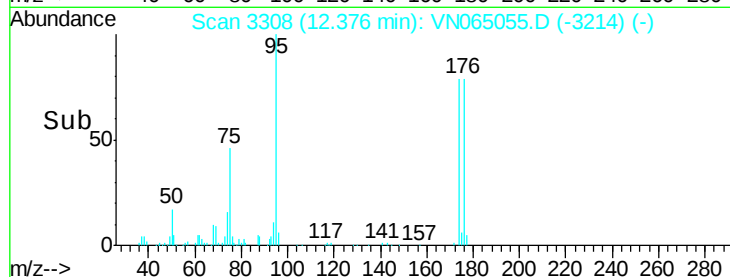
Abundance Ion 94.90 (94.60 to 95.60): VN065040.D (-3294) (-)

Ion 173.80 (173.50 to 174.50): VN065040.D (-3294) (-)

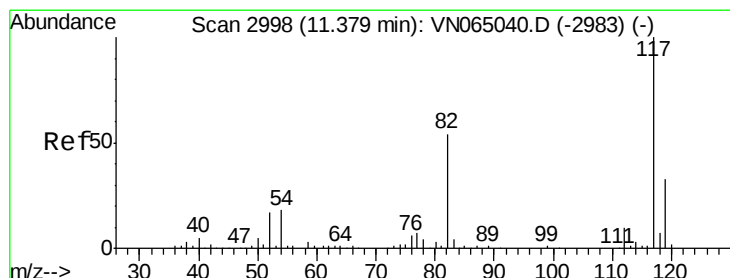
Ion 175.80 (175.50 to 176.50): VN065040.D (-3294) (-)

12.38

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. 0.00 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

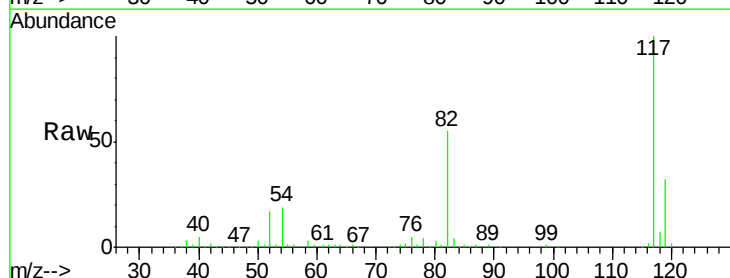
Tgt Ion: 117 Resp: 336179

Ion Ratio Lower Upper

117 100

82 55.4 43.5 65.3

119 32.5 26.4 39.6



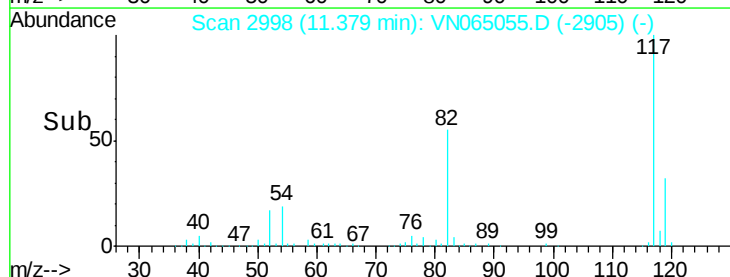
Abundance Ion 116.90 (116.60 to 117.60): VN065040.D (-2983) (-)

Ion 82.00 (81.70 to 82.70): VN065040.D (-2983) (-)

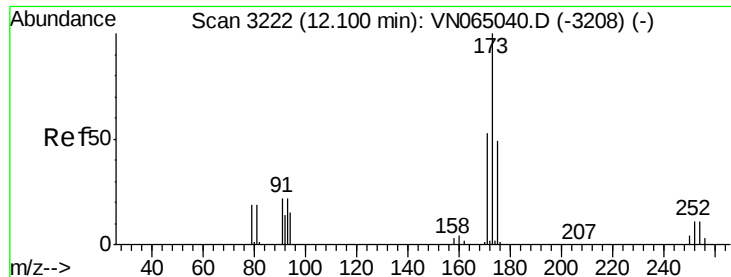
Ion 118.90 (118.60 to 119.60): VN065040.D (-2983) (-)

11.38

Time-->



Time-->



#71

Bromoform

Concen: 0.281 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. 0.27 min

Lab File: VN065055.D

Acq: 10 Dec 2020 20:32

Instrument :

MSVOA_N

ClientSampleId :

PB133501ZHE#03

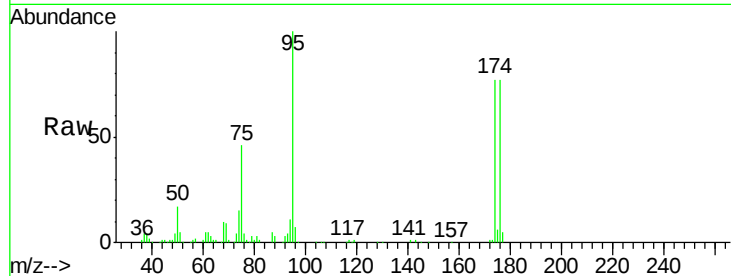
Tgt Ion:173 Resp: 565

Ion Ratio Lower Upper

173 100

175 1344.4 24.5 73.5#

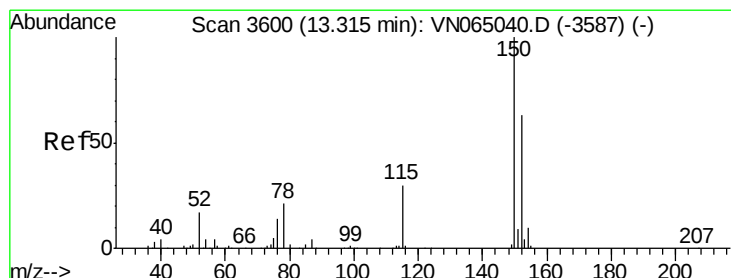
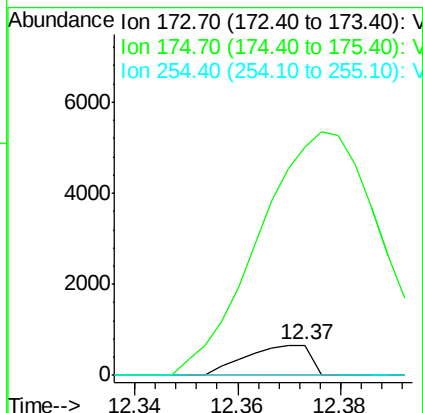
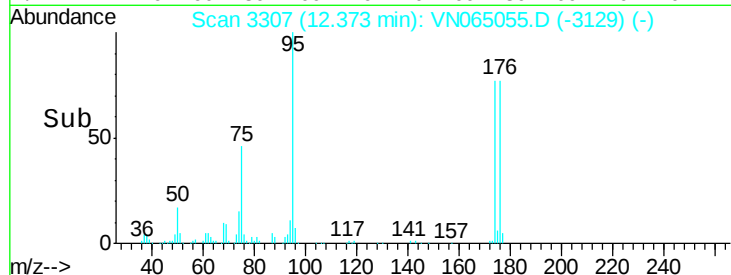
254 0.0 0.0 0.0



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: VN065055.D

Acq: 10 Dec 2020 20:32

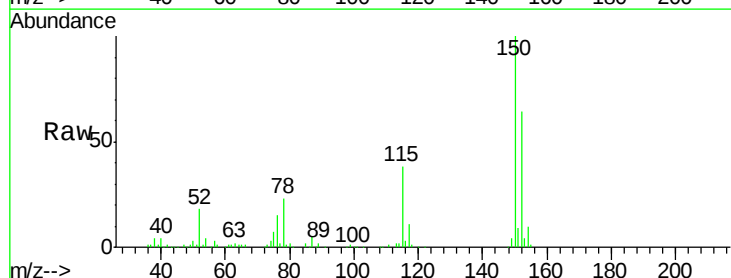
Tgt Ion:152 Resp: 136995

Ion Ratio Lower Upper

152 100

115 59.1 29.3 88.0

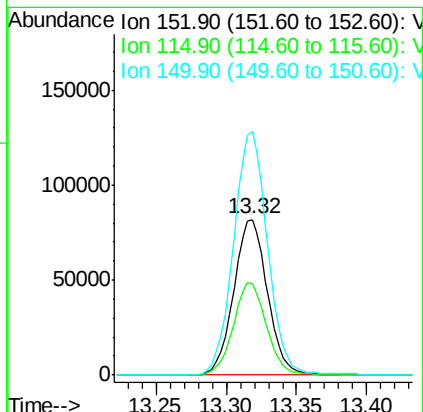
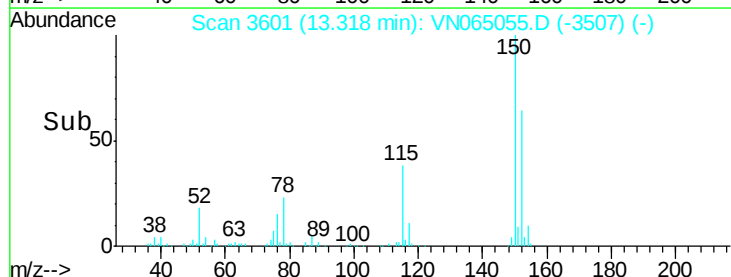
150 158.7 0.0 345.8

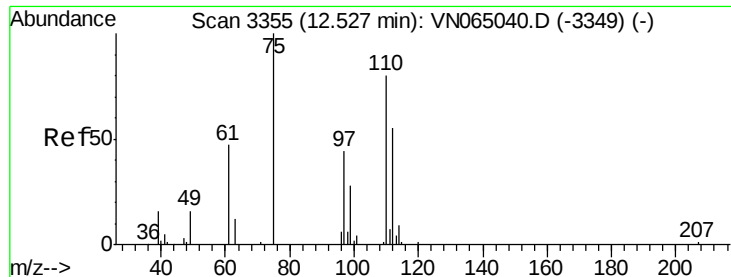


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

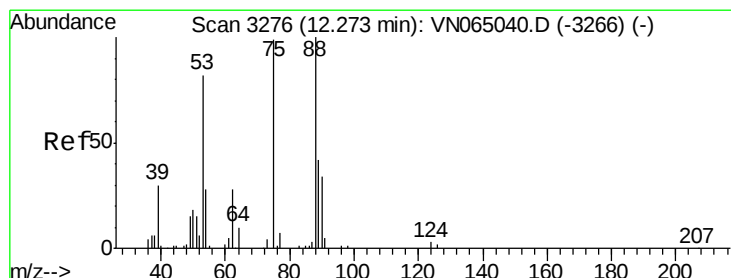
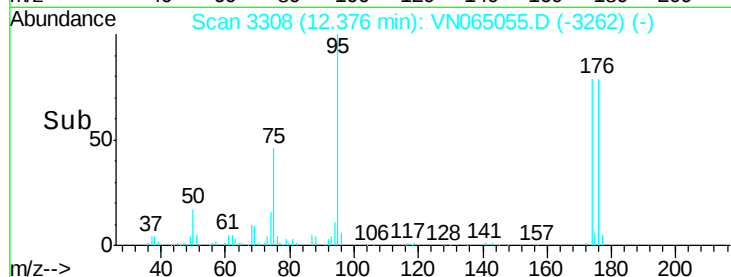
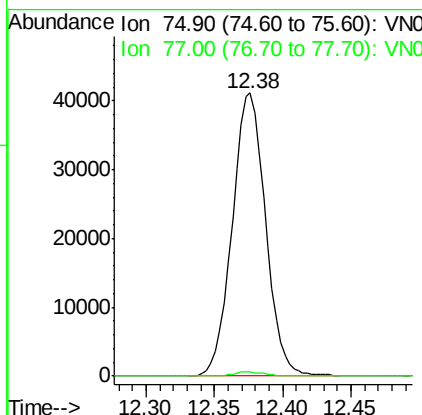
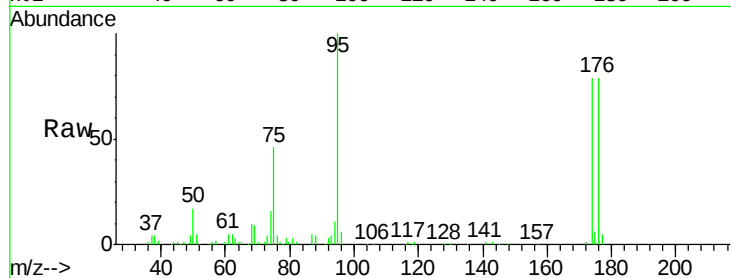




#76
 1,2,3-Trichloropropane
 Concen: 26.186 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. -0.15 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

Instrument :
 MSVOA_N
 ClientSampleId :
 PB133501ZHE#03

Tgt Ion: 75 Resp: 69879
 Ion Ratio Lower Upper
 75 100
 77 1.3 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.533 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN065055.D
 Acq: 10 Dec 2020 20:32

Tgt Ion: 75 Resp: 69879
 Ion Ratio Lower Upper
 75 100
 53 0.0 68.6 103.0#
 89 0.0 36.2 54.4#

