

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN061120\
 Data File : VN061773.D
 Acq On : 12 Jun 2020 6:51
 Operator : JC/MD
 Sample : PB129452ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 36 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#03

Quant Time: Jun 12 08:45:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N052820W.M
 Quant Title : SW846 8260
 QLast Update : Fri May 29 02:14:10 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	290914	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	494791	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	517269	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	225796	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	162558	46.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.80%	
35) Dibromofluoromethane	7.55	113	133600	53.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.46%	
50) Toluene-d8	10.06	98	612733	52.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.36%	
62) 4-Bromofluorobenzene	12.38	95	217428	51.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.78	43	10698	5.13	ug/l	91
18) Methyl Acetate	4.28	43	1274	0.41	ug/l #	85
20) Methylene Chloride	4.51	84	6224	0.24	ug/l	88
25) 2-Butanone	6.79	43	2645	1.61	ug/l #	42
29) Tetrahydrofuran	7.18	42	428	0.40	ug/l #	53
31) Cyclohexane	7.63	56	4638	0.95	ug/l #	1
36) 1,1-Dichloropropene	7.63	75	19199	4.38	ug/l #	49
37) Ethyl Acetate	6.79	43	2645	0.75	ug/l #	66
38) Carbon Tetrachloride	7.63	117	27050	6.40	ug/l #	18
43) Isopropyl Acetate	8.13	43	54572	8.60	ug/l #	91
45) 1,2-Dichloropropane	9.23	63	1206	0.38	ug/l #	44
48) Methyl methacrylate	9.14	41	2747	0.96	ug/l #	5
49) 1,4-Dioxane	9.23	88	64	1.45	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	5831	1.63	ug/l	96
54) cis-1,3-Dichloropropene	9.88	75	32015	5.67	ug/l #	62
56) Ethyl methacrylate	10.51	69	1446	0.29	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	5858	1.04	ug/l #	42
59) 2-Hexanone	10.74	43	59384	23.12	ug/l #	50
71) Bromoform	12.38	173	1782	0.58	ug/l #	1
74) N-amyl acetate	12.00	43	1439	0.28	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	104276	25.40	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	7397	0.54	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.38	75	104276	64.95	ug/l #	15

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

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN061120\  
Data File : VN061773.D  
Acq On    : 12 Jun 2020    6:51  
Operator  : JC/MD  
Sample    : PB129452ZHE#03  
Misc      : 5.00mL/MSVOA_N/WATER  
ALS Vial  : 36    Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

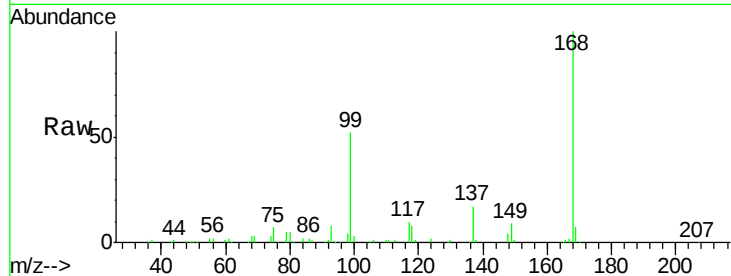
PB129452ZHE#03

Tgt Ion:168 Resp: 290914

Ion Ratio Lower Upper

168 100

99 51.6 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

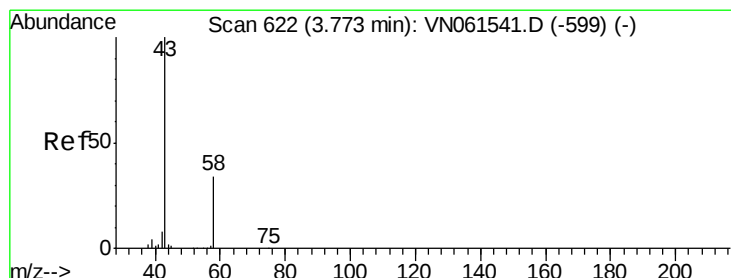
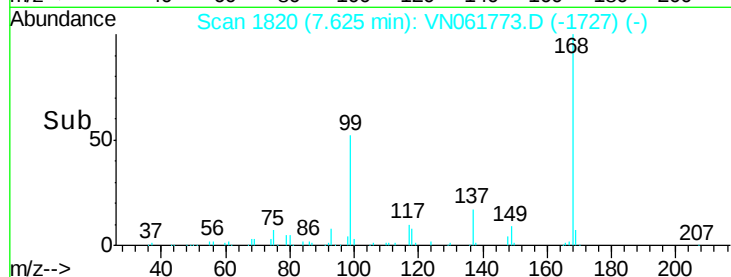
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#16

Acetone

Concen: 5.13 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061773.D

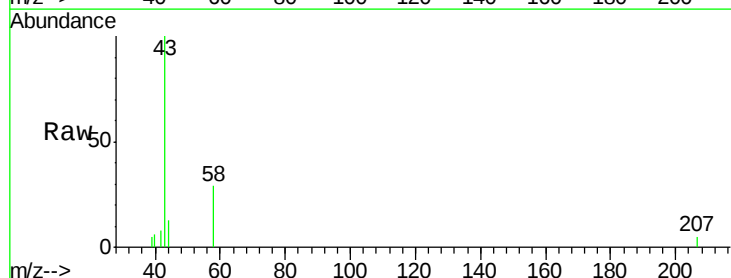
Acq: 12 Jun 2020 6:51

Tgt Ion: 43 Resp: 10698

Ion Ratio Lower Upper

43 100

58 29.1 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.78

4000

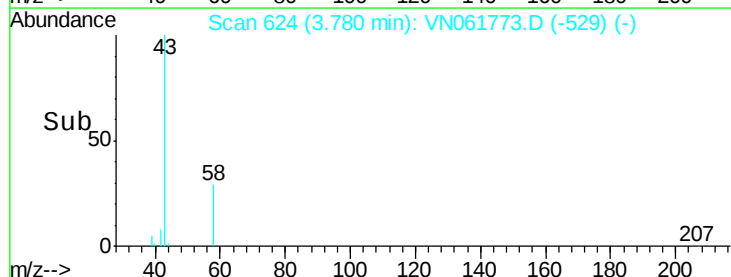
3000

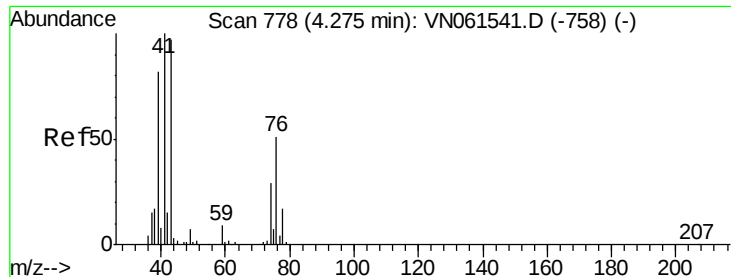
2000

1000

0

Time--> 3.70 3.75 3.80 3.85 3.90

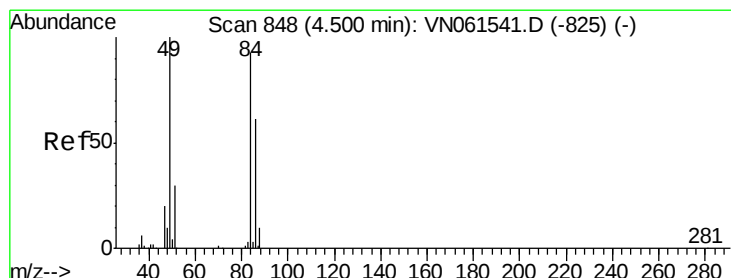
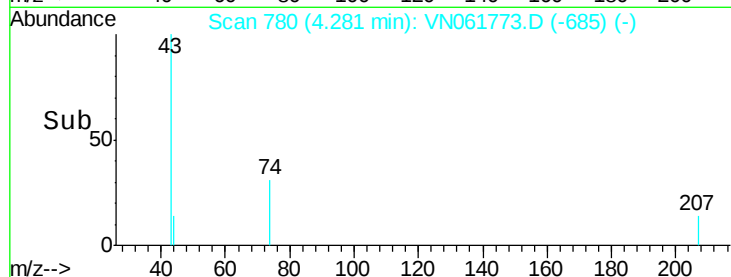
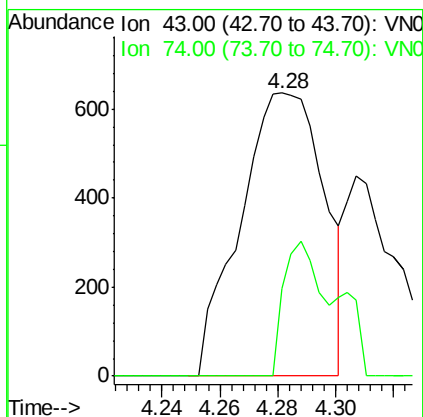
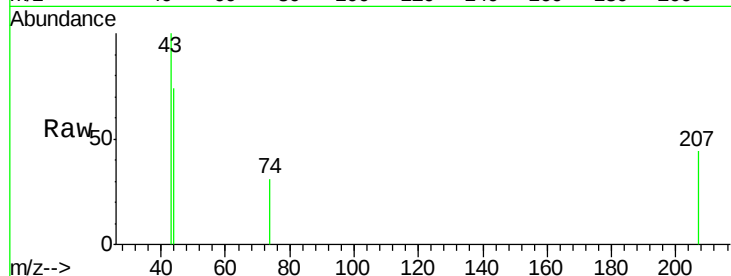




#18
Methyl Acetate
Concen: 0.41 ug/l
RT: 4.28 min Scan# 780
Delta R.T. 0.01 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

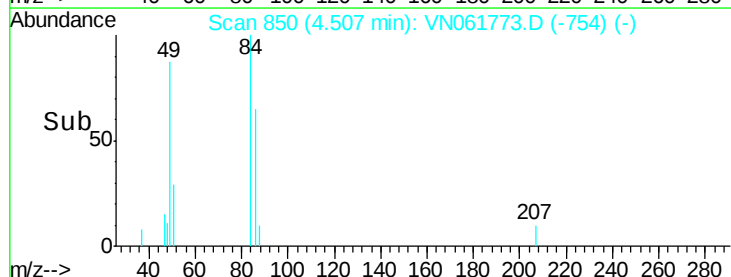
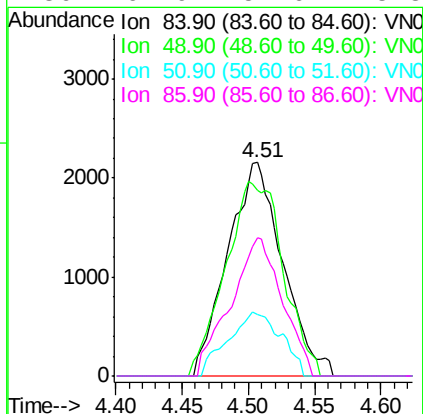
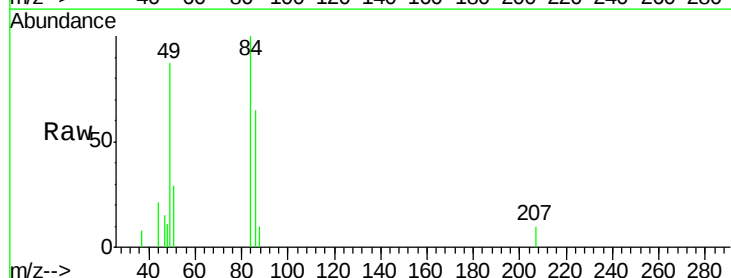
Instrument :
MSVOA_N
ClientSampleId :
PB129452ZHE#03

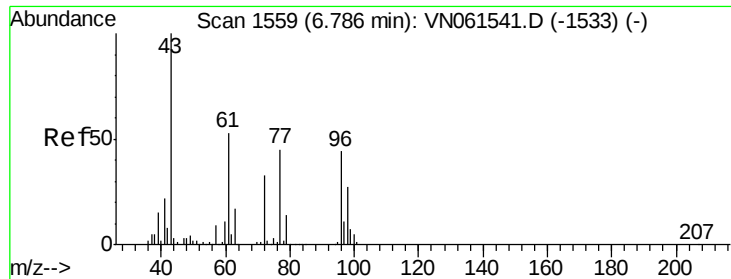
Tgt Ion: 43 Resp: 1274
Ion Ratio Lower Upper
43 100
74 20.9 23.2 34.8#



#20
Methylene Chloride
Concen: 0.24 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

Tgt Ion: 84 Resp: 6224
Ion Ratio Lower Upper
84 100
49 87.0 85.8 128.8
51 28.8 26.2 39.2
86 64.9 52.6 78.8





#25

2-Butanone

Concen: 1.61 ug/l

RT: 6.79 min Scan# 1559

Delta R.T. 0.00 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

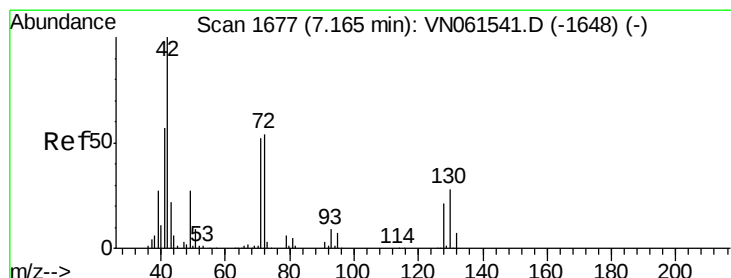
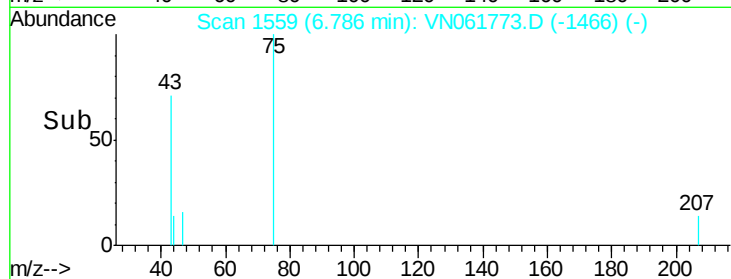
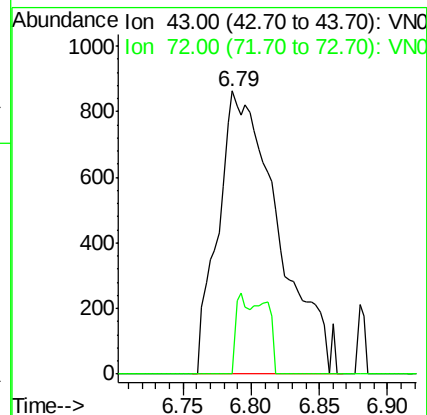
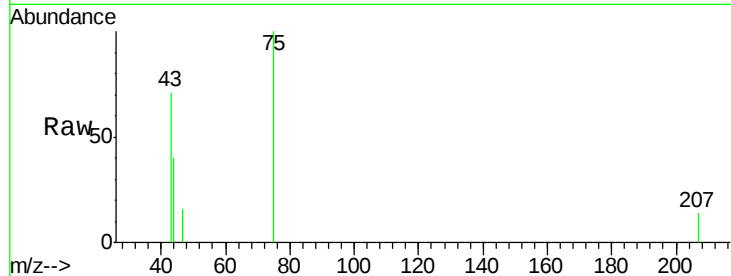
PB129452ZHE#03

Tgt Ion: 43 Resp: 2645

Ion Ratio Lower Upper

43 100

72 0.0 26.0 39.0#



#29

Tetrahydrofuran

Concen: 0.40 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.01 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

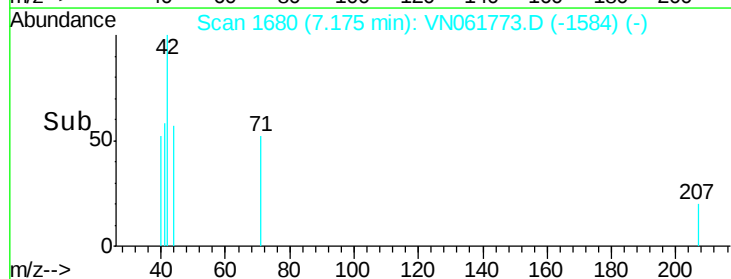
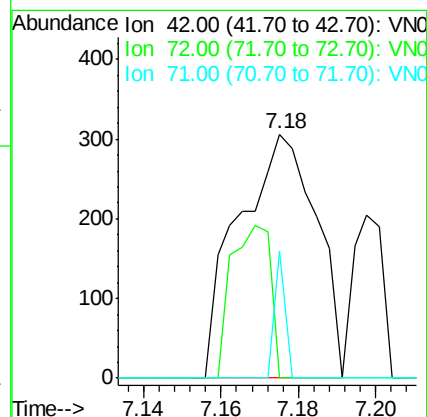
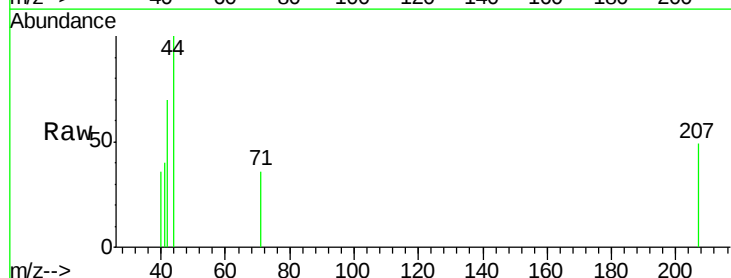
Tgt Ion: 42 Resp: 428

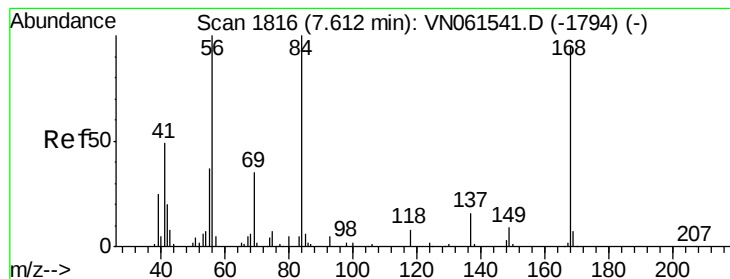
Ion Ratio Lower Upper

42 100

72 31.3 43.6 65.4#

71 7.2 41.2 61.8#





#31

Cyclohexane

Concen: 0.95 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.01 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#03

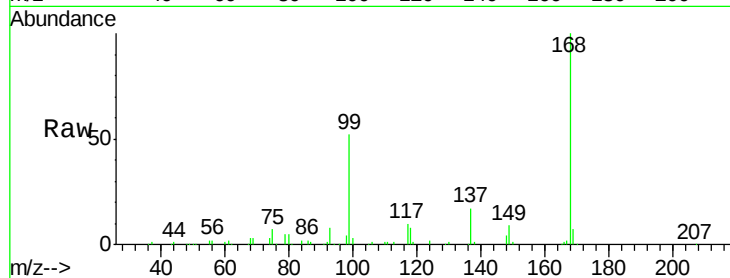
Tgt Ion: 56 Resp: 4638

Ion Ratio Lower Upper

56 100

69 205.0 27.8 41.8#

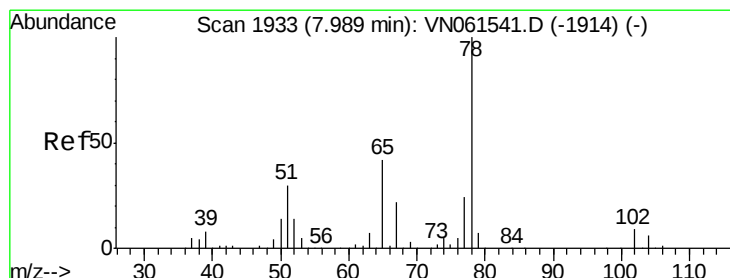
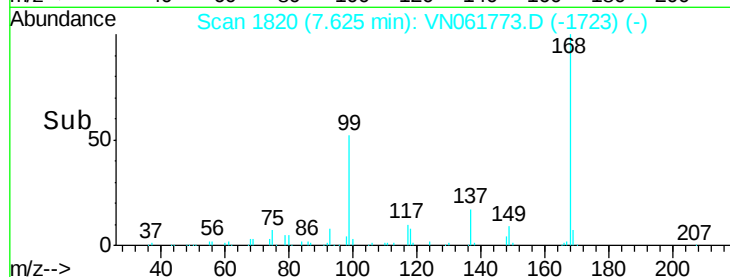
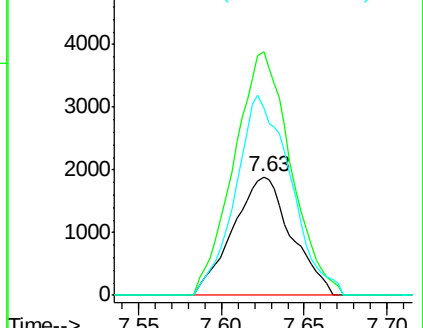
84 157.2 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN061773.D (-1723) (-)

Ion 69.00 (68.70 to 69.70): VN061773.D (-1723) (-)

Ion 84.00 (83.70 to 84.70): VN061773.D (-1723) (-)



#33

1,2-Dichloroethane-d4

Concen: 46.90 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061773.D

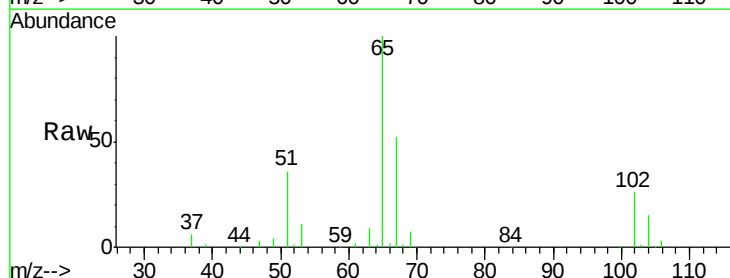
Acq: 12 Jun 2020 6:51

Tgt Ion: 65 Resp: 162558

Ion Ratio Lower Upper

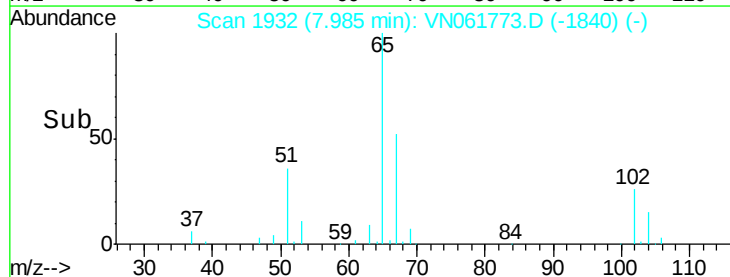
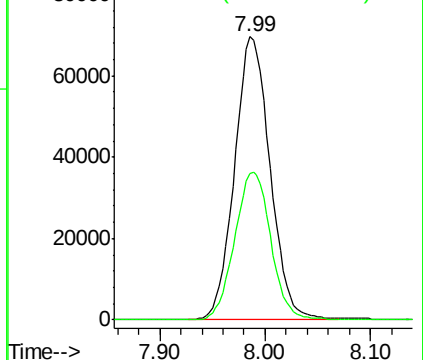
65 100

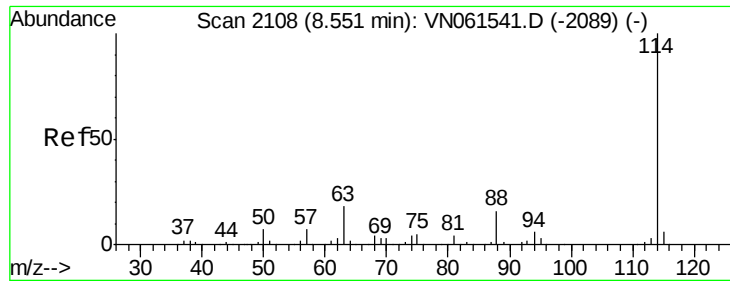
67 53.1 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN061773.D (-1840) (-)

Ion 66.90 (66.60 to 67.60): VN061773.D (-1840) (-)

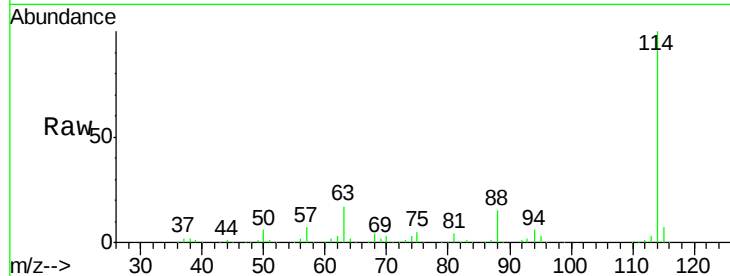




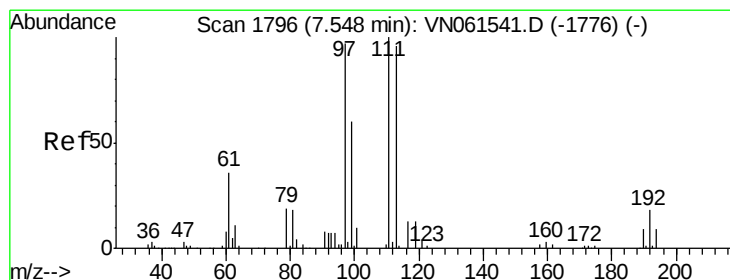
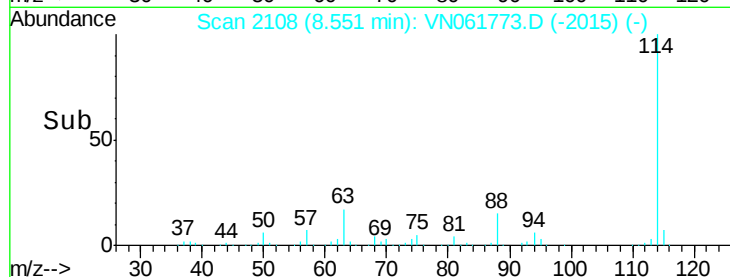
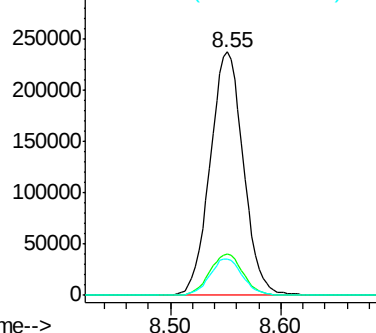
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061773.D
 Acq: 12 Jun 2020 6:51

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#03

Tgt Ion:114 Resp: 494791
 Ion Ratio Lower Upper
 114 100
 63 17.1 0.0 35.8
 88 15.1 0.0 31.0

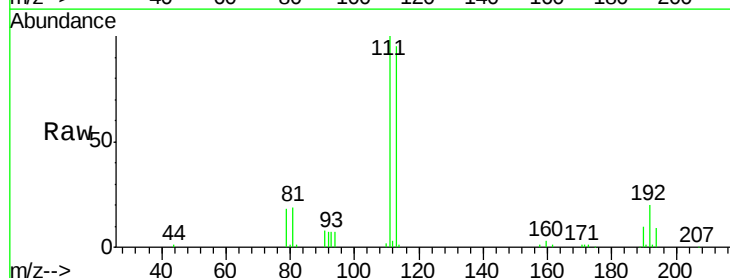


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

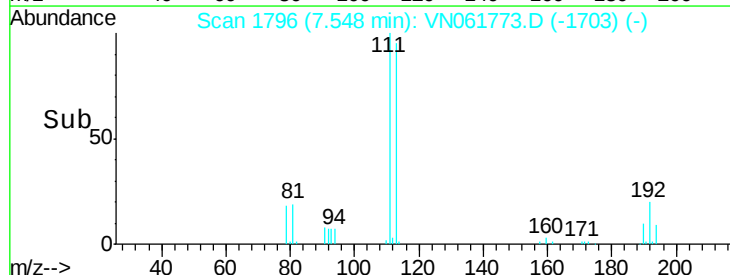
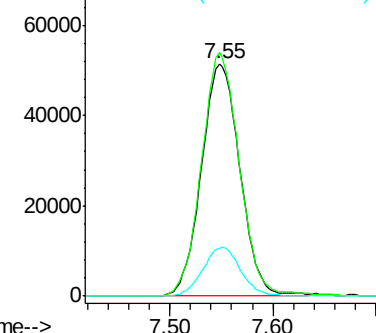


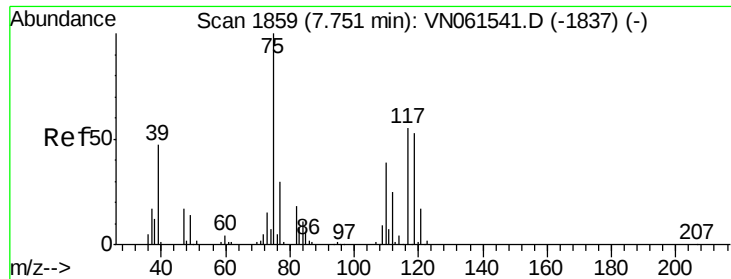
#35
 Dibromofluoromethane
 Concen: 53.23 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. 0.00 min
 Lab File: VN061773.D
 Acq: 12 Jun 2020 6:51

Tgt Ion:113 Resp: 133600
 Ion Ratio Lower Upper
 113 100
 111 103.3 83.4 125.0
 192 20.6 15.4 23.2



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

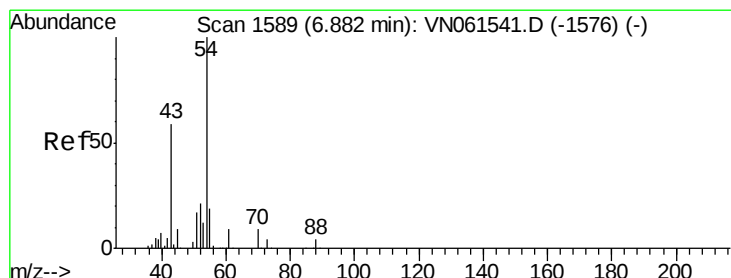
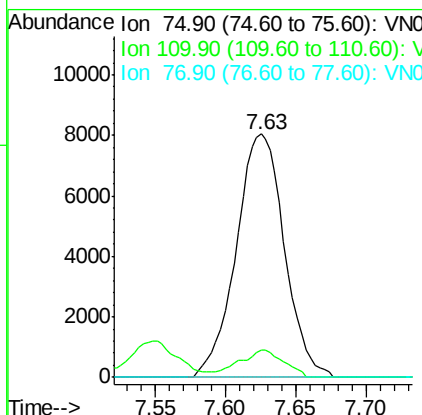
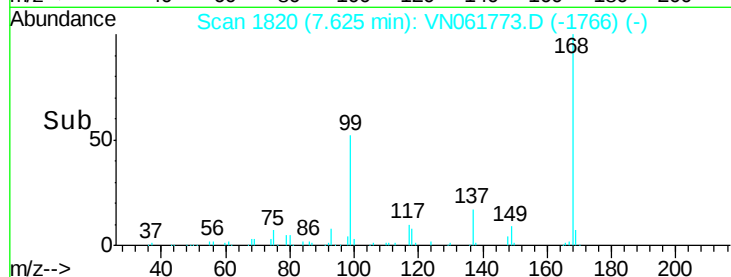
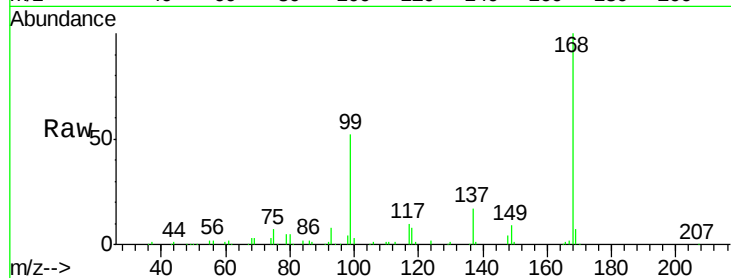




#36
 1,1-Dichloropropene
 Concen: 4.38 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061773.D
 Acq: 12 Jun 2020 6:51

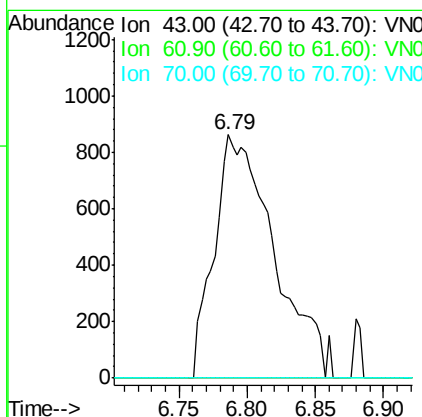
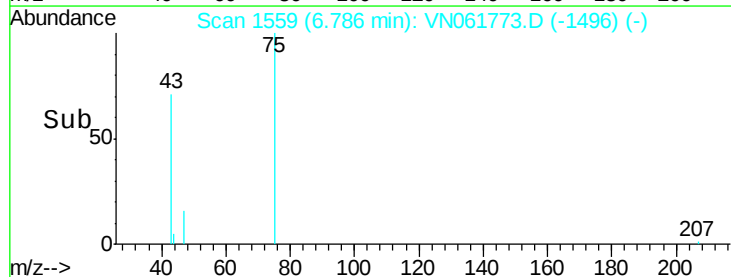
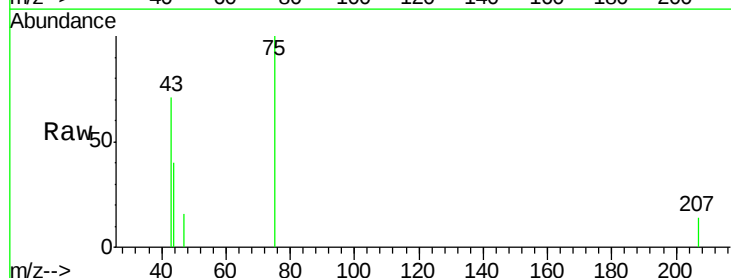
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#03

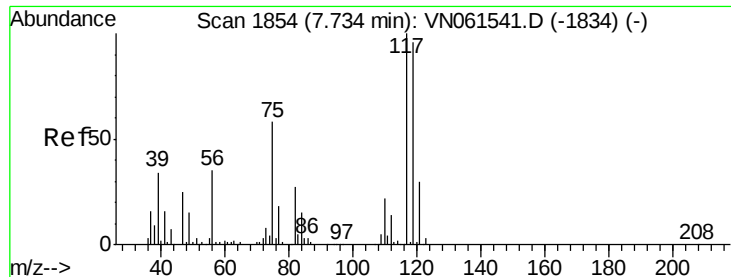
Tgt Ion: 75 Resp: 19199
 Ion Ratio Lower Upper
 75 100
 110 10.3 19.5 58.5#
 77 0.0 24.7 37.1#



#37
 Ethyl Acetate
 Concen: 0.75 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. -0.10 min
 Lab File: VN061773.D
 Acq: 12 Jun 2020 6:51

Tgt Ion: 43 Resp: 2645
 Ion Ratio Lower Upper
 43 100
 61 0.0 12.2 18.4#
 70 0.0 9.4 14.2#

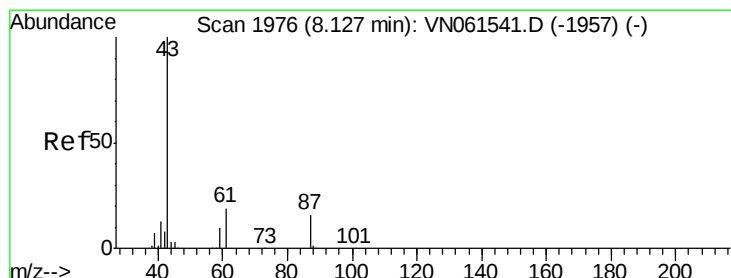
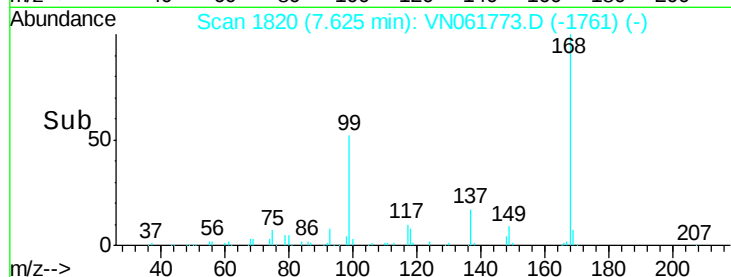
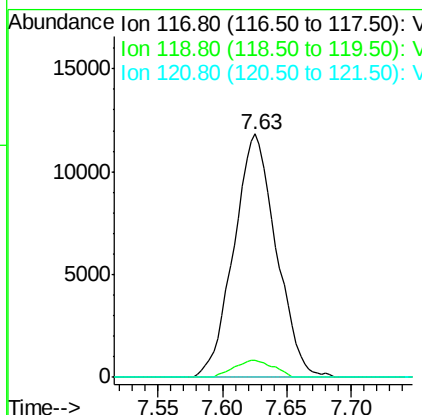
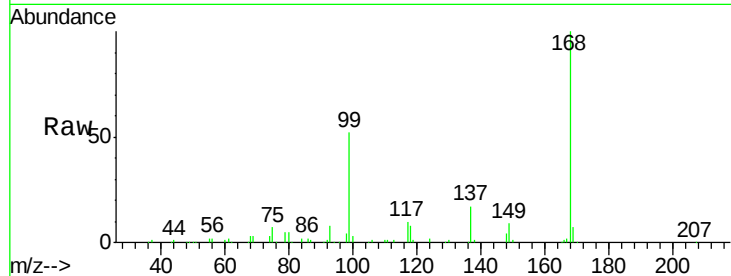




#38
Carbon Tetrachloride
Concen: 6.40 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.11 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

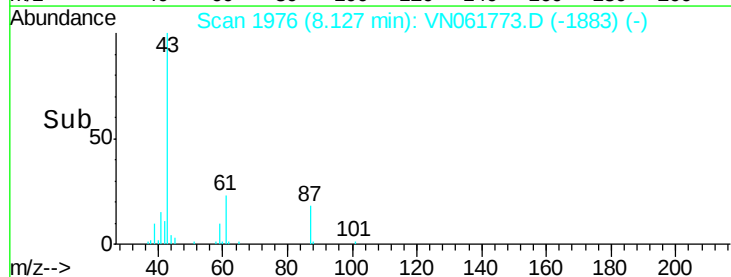
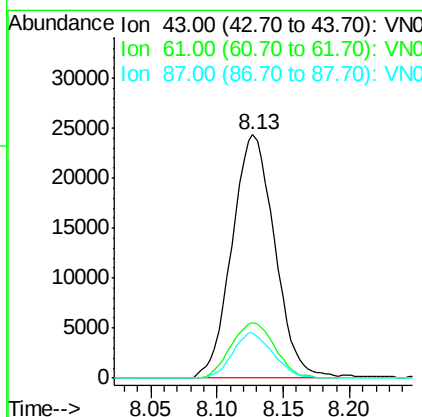
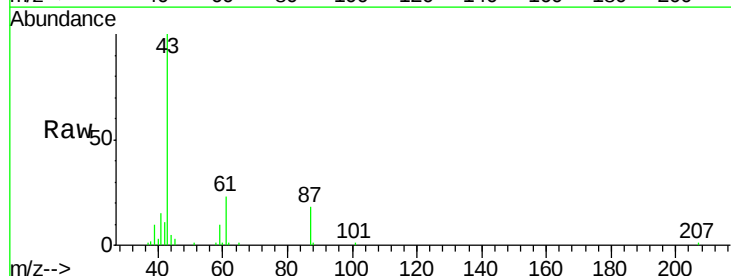
Instrument :
MSVOA_N
ClientSampleId :
PB129452ZHE#03

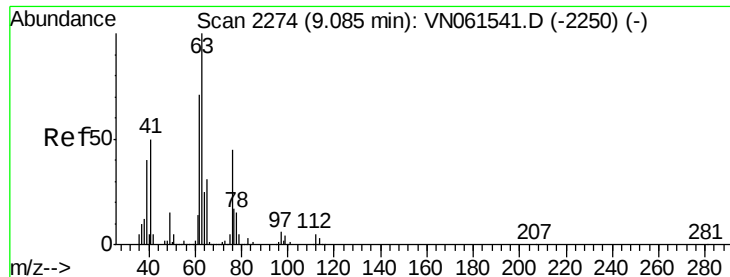
Tgt Ion: 117 Resp: 27050
Ion Ratio Lower Upper
117 100
119 7.1 76.5 114.7#
121 0.0 24.1 36.1#



#43
Isopropyl Acetate
Concen: 8.60 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

Tgt Ion: 43 Resp: 54572
Ion Ratio Lower Upper
43 100
61 23.2 23.6 35.4#
87 17.4 13.0 19.6





#45

1,2-Dichloropropane

Concen: 0.38 ug/l

RT: 9.23 min Scan# 2320

Delta R.T. 0.15 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

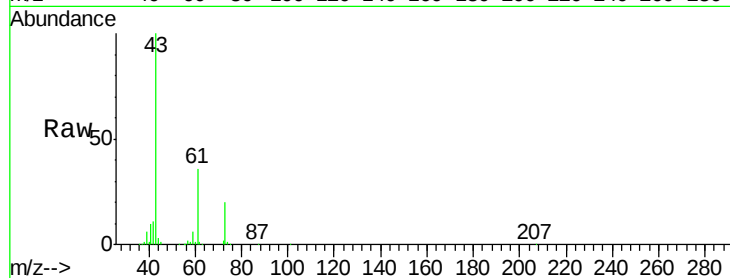
PB129452ZHE#03

Tgt Ion: 63 Resp: 1206

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

800

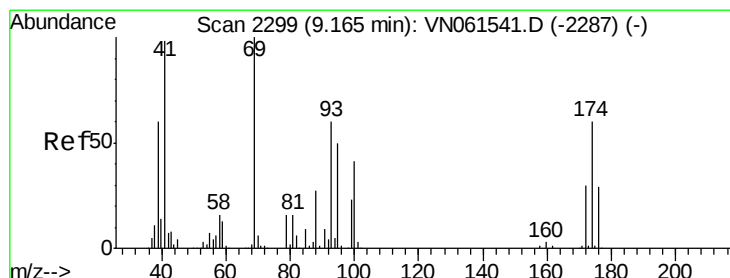
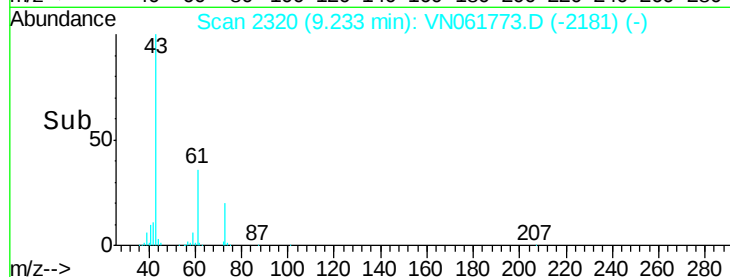
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 0.96 ug/l

RT: 9.14 min Scan# 2292

Delta R.T. -0.02 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

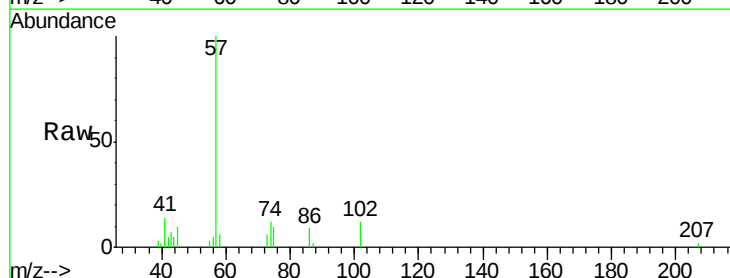
Tgt Ion: 41 Resp: 2747

Ion Ratio Lower Upper

41 100

69 0.0 83.9 125.9#

39 0.0 52.1 78.1#



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

40000

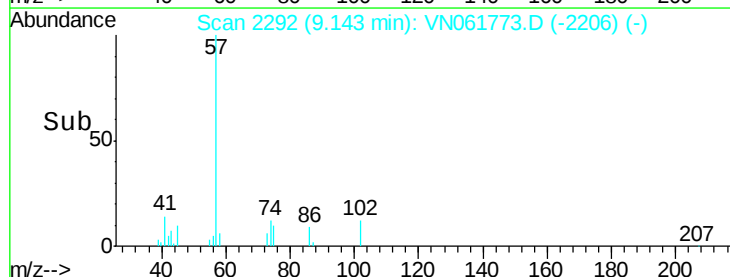
30000

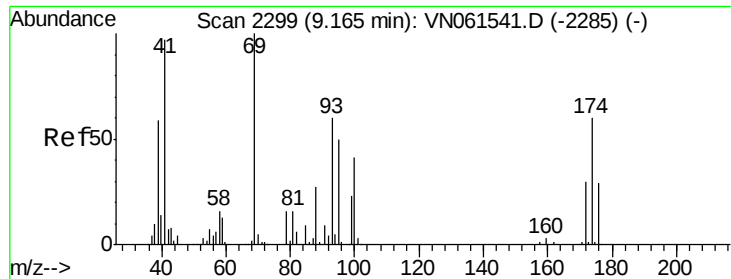
20000

10000

0

Time-->





#49

1,4-Dioxane

Concen: 1.45 ug/l

RT: 9.23 min Scan# 2318

Delta R.T. 0.06 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#03

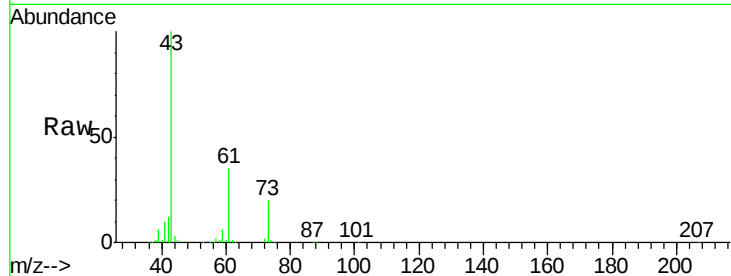
Tgt Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 1464767.2 23.1 34.7#

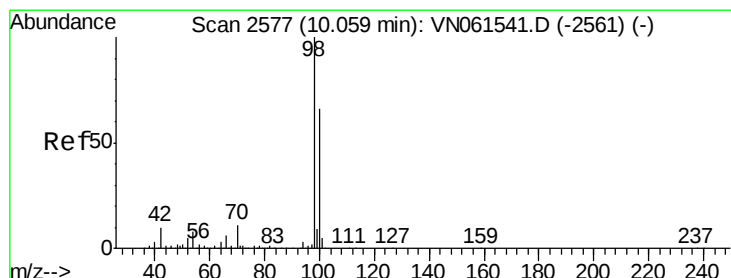
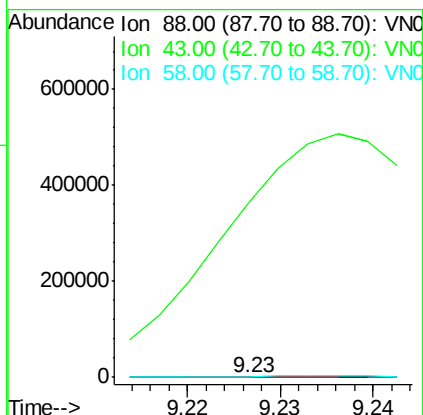
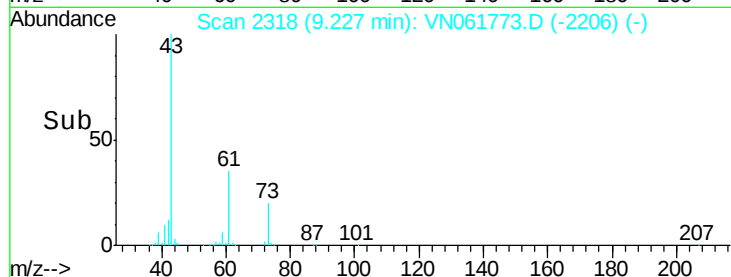
58 7345.3 48.3 72.5#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.68 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061773.D

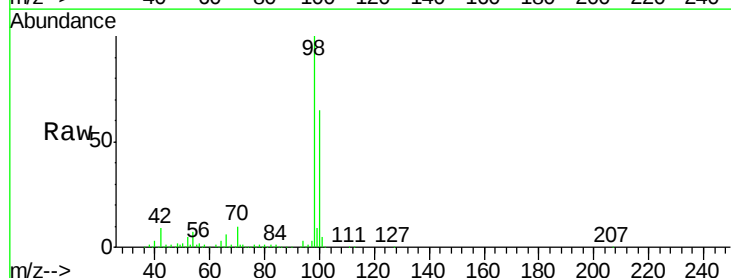
Acq: 12 Jun 2020 6:51

Tgt Ion: 98 Resp: 612733

Ion Ratio Lower Upper

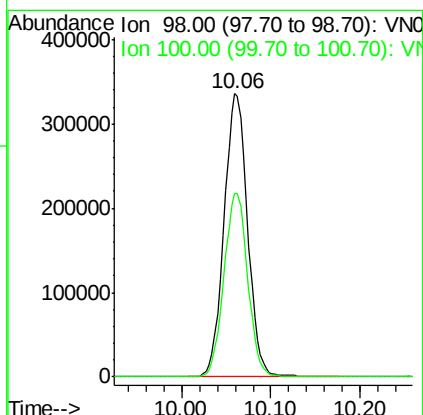
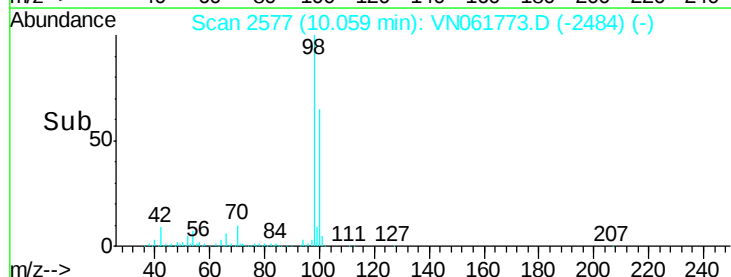
98 100

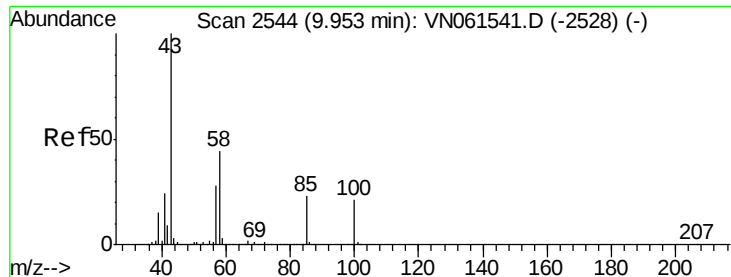
100 65.5 52.8 79.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

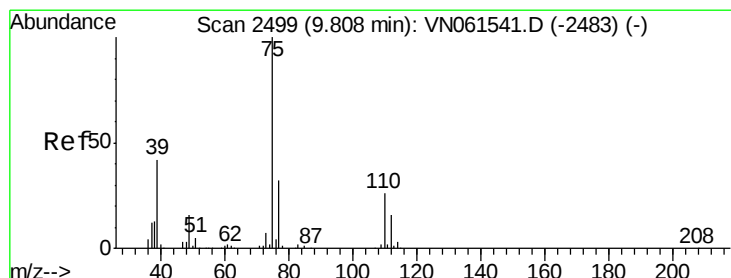
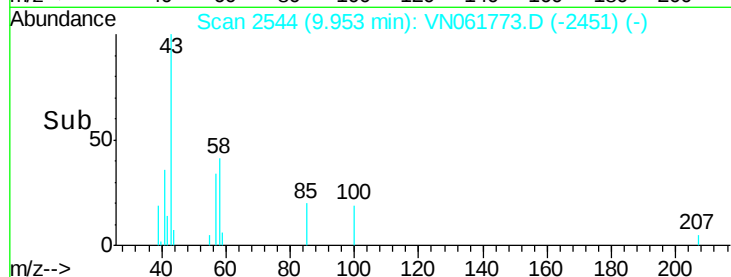
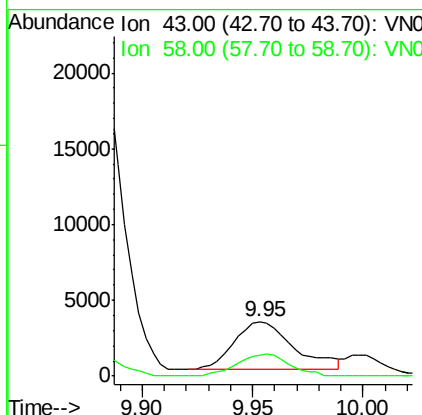
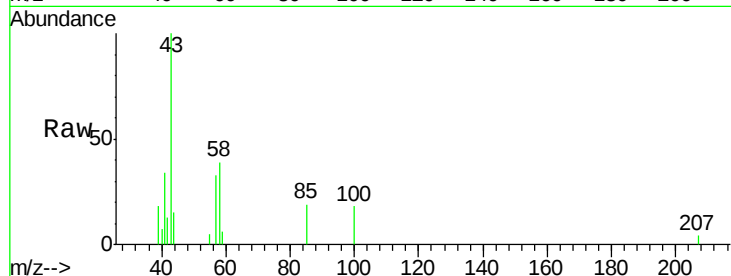




#51
 4-Methyl-2-Pentanone
 Concen: 1.63 ug/l
 RT: 9.95 min Scan# 2544
 Delta R.T. 0.00 min
 Lab File: VN061773.D
 Acq: 12 Jun 2020 6:51

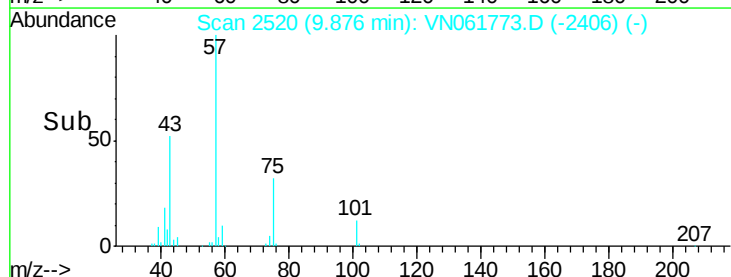
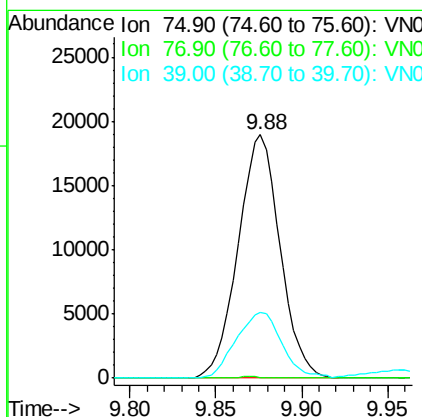
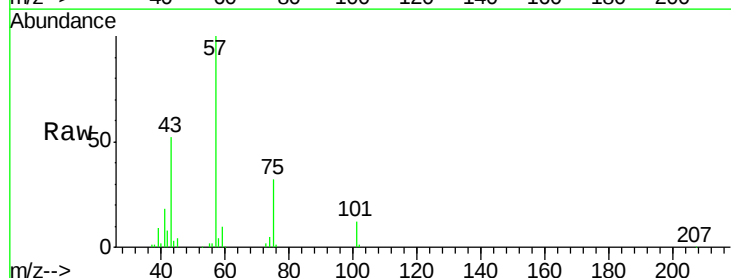
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129452ZHE#03

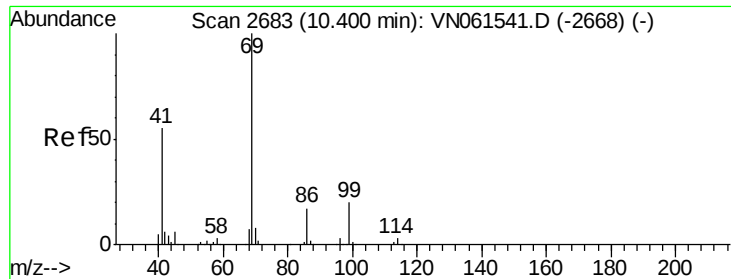
Tgt Ion: 43 Resp: 5831
 Ion Ratio Lower Upper
 43 100
 58 41.5 35.0 52.6



#54
 cis-1,3-Dichloropropene
 Concen: 5.67 ug/l
 RT: 9.88 min Scan# 2520
 Delta R.T. 0.07 min
 Lab File: VN061773.D
 Acq: 12 Jun 2020 6:51

Tgt Ion: 75 Resp: 32015
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.2#
 39 27.2 33.8 50.6#





#56

Ethyl methacrylate

Concen: 0.29 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#03

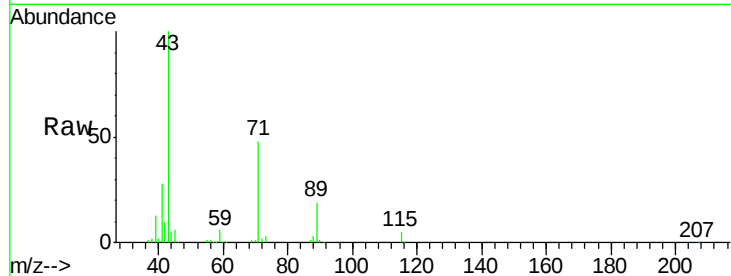
Tgt Ion: 69 Resp: 1446

Ion Ratio Lower Upper

69 100

41 4235.4 43.5 65.3#

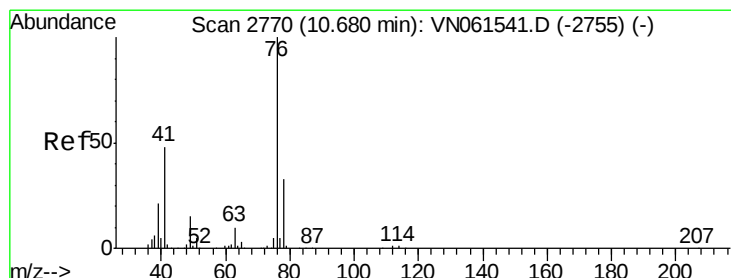
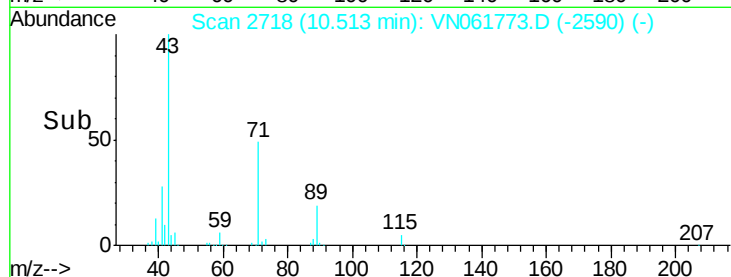
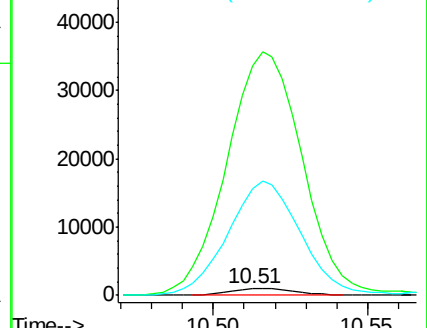
39 1898.8 27.0 40.6#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.04 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061773.D

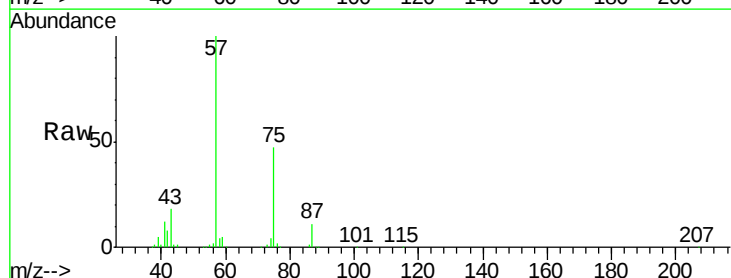
Acq: 12 Jun 2020 6:51

Tgt Ion: 76 Resp: 5858

Ion Ratio Lower Upper

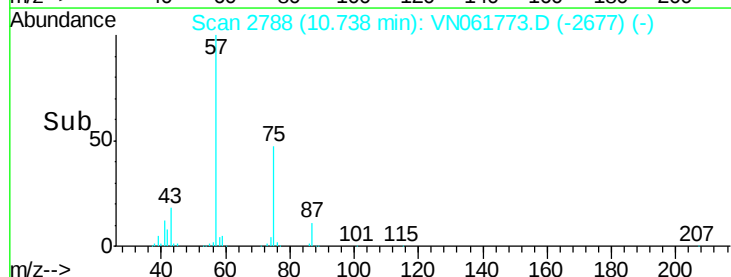
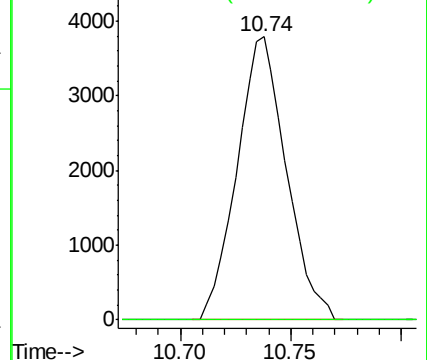
76 100

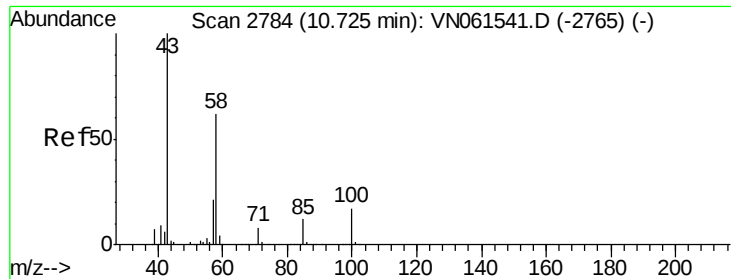
78 0.0 26.3 39.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

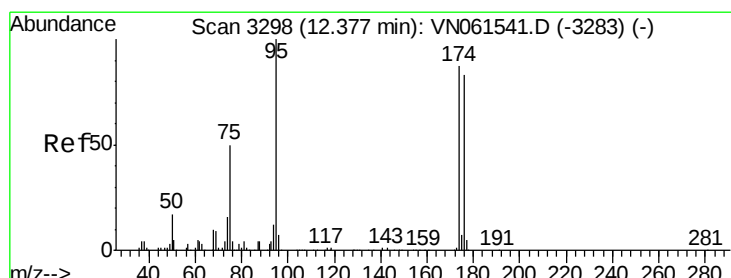
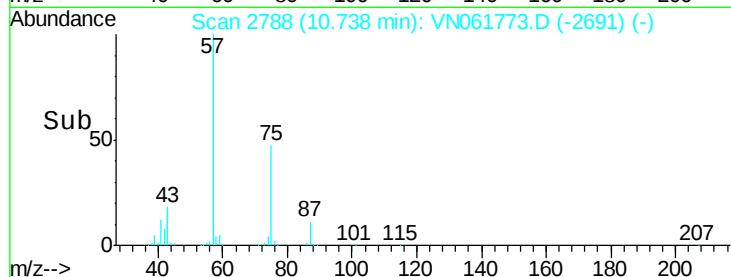
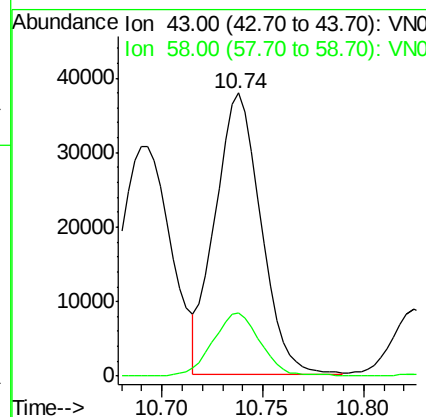
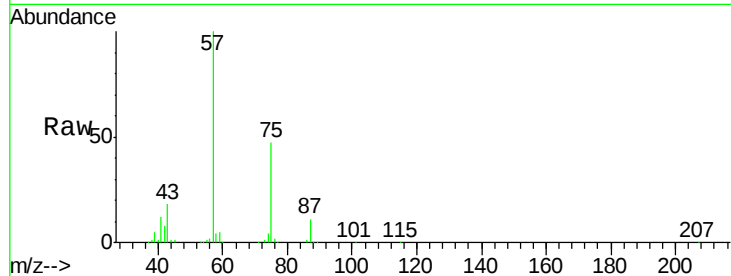




#59
2-Hexanone
Concen: 23.12 ug/l
RT: 10.74 min Scan# 2788
Delta R.T. 0.01 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

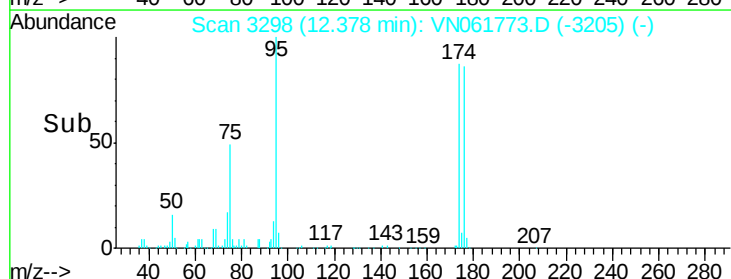
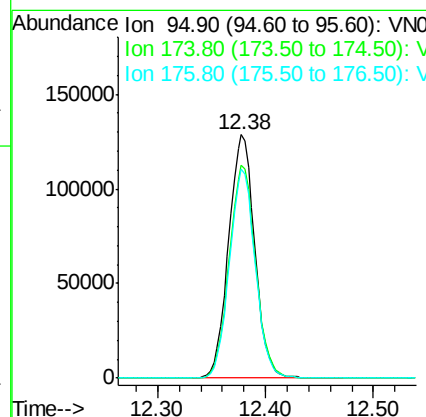
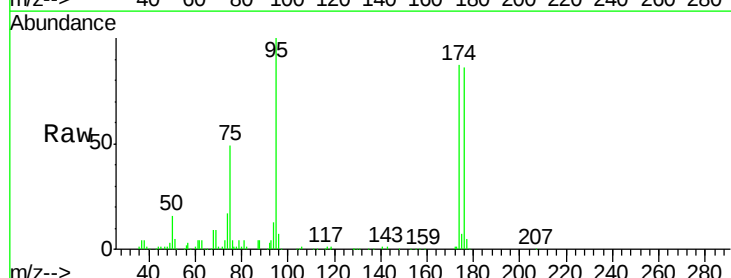
Instrument :
MSVOA_N
ClientSampleId :
PB129452ZHE#03

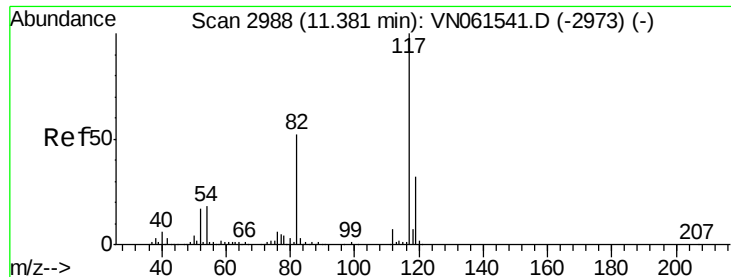
Tgt Ion: 43 Resp: 59384
Ion Ratio Lower Upper
43 100
58 23.4 30.7 92.1#



#62
4-Bromofluorobenzene
Concen: 51.24 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.00 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

Tgt Ion: 95 Resp: 217428
Ion Ratio Lower Upper
95 100
174 88.4 0.0 172.8
176 84.8 0.0 164.8

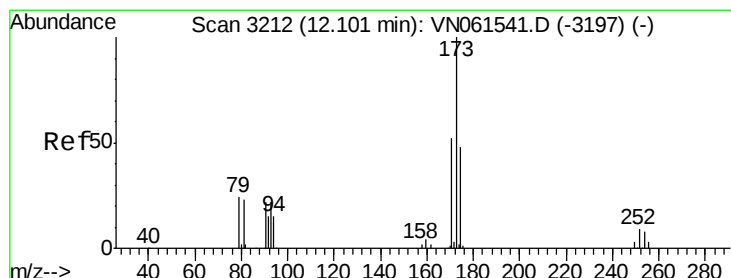
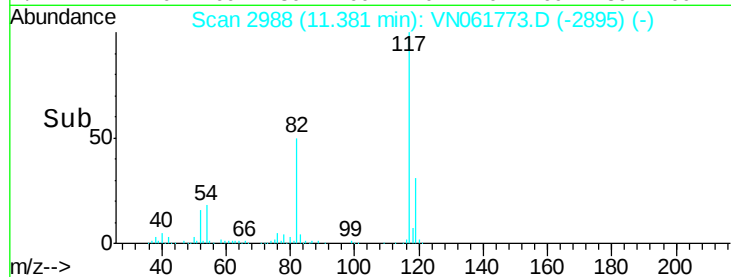
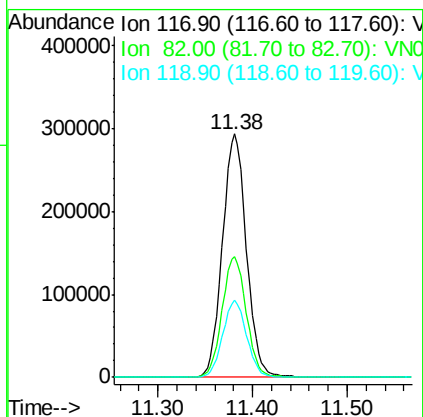
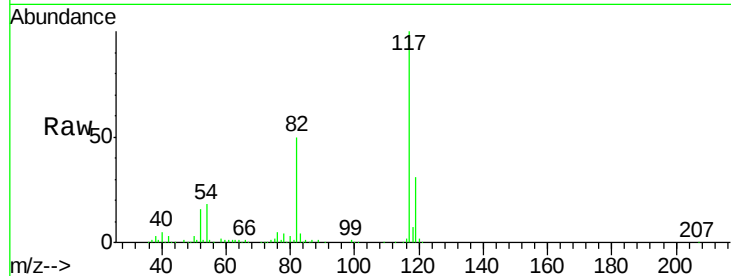




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

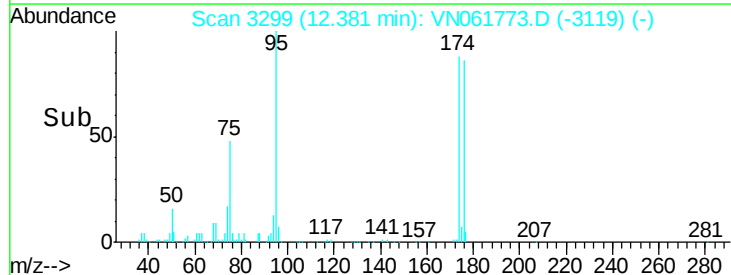
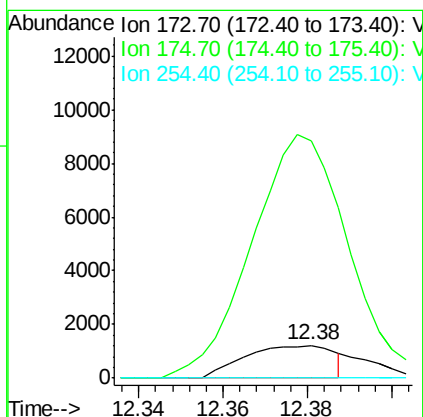
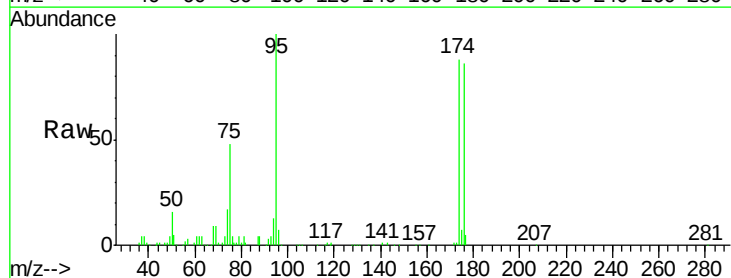
Instrument :
MSVOA_N
ClientSampleId :
PB129452ZHE#03

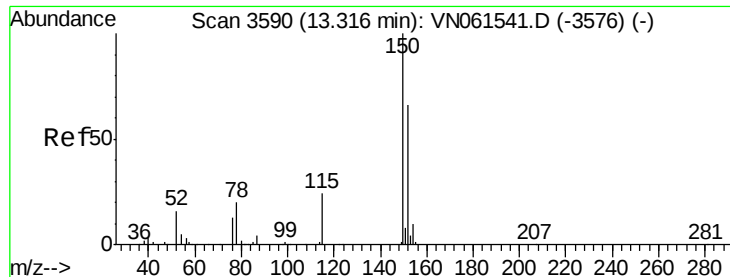
Tgt Ion:117 Resp: 517269
Ion Ratio Lower Upper
117 100
82 49.6 41.5 62.3
119 31.5 25.6 38.4



#71
Bromoform
Concen: 0.58 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.28 min
Lab File: VN061773.D
Acq: 12 Jun 2020 6:51

Tgt Ion:173 Resp: 1782
Ion Ratio Lower Upper
173 100
175 680.9 24.4 73.2#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#03

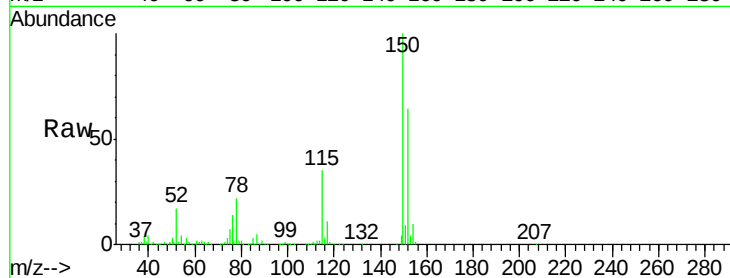
Tgt Ion:152 Resp: 225796

Ion Ratio Lower Upper

152 100

115 55.8 28.0 84.0

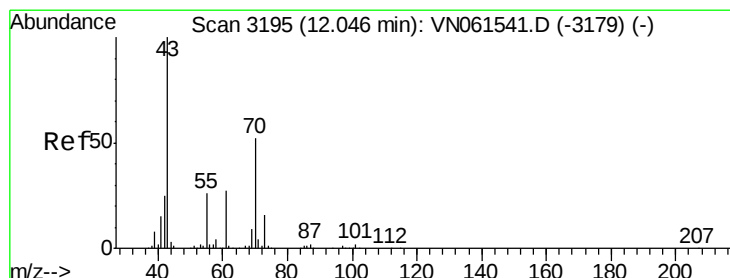
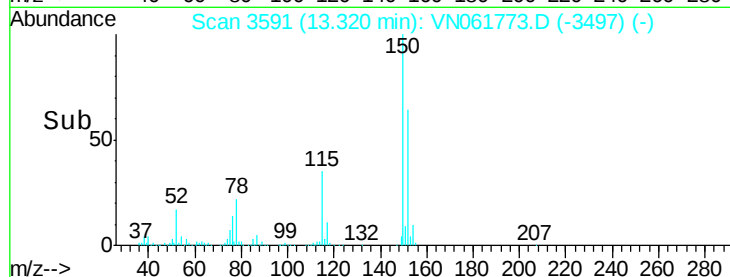
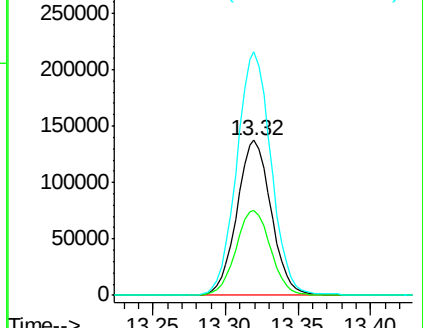
150 157.7 0.0 344.0



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-ethyl acetate

Concen: 0.28 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Tgt Ion: 43 Resp: 1439

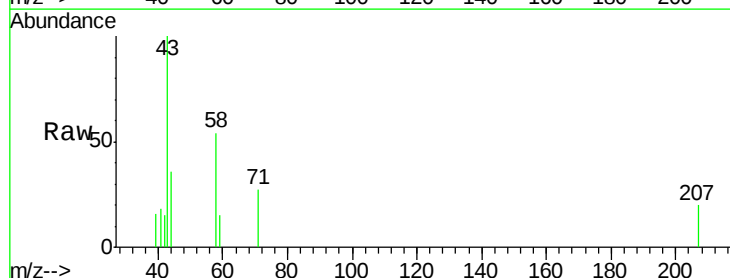
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

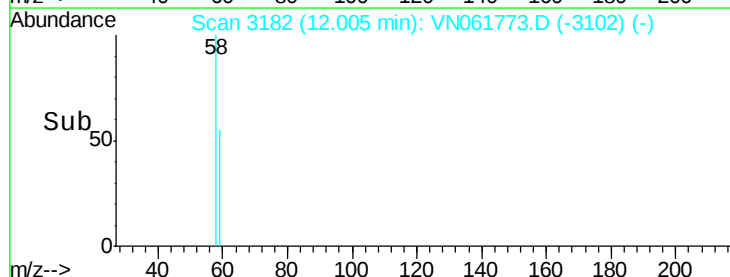
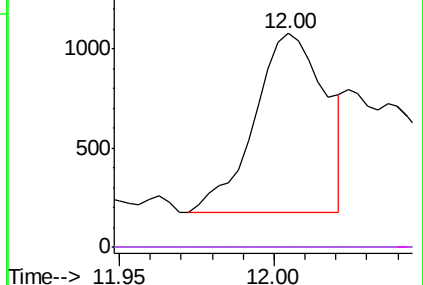


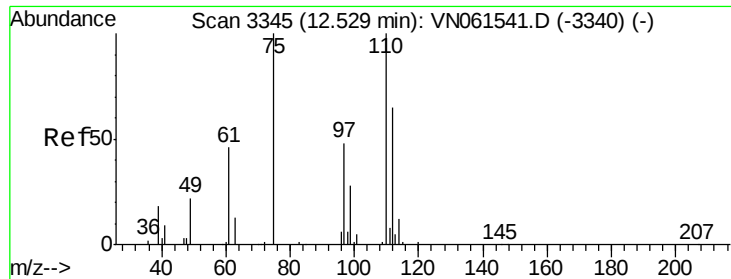
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.40 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

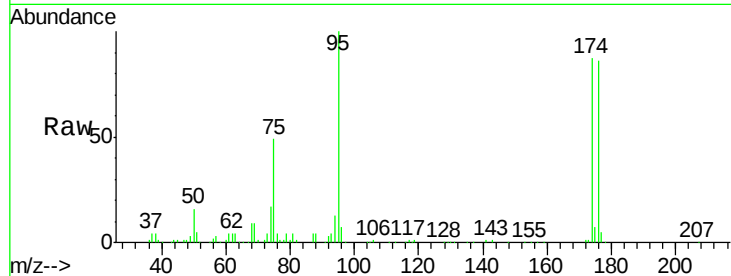
PB129452ZHE#03

Tgt Ion: 75 Resp: 104276

Ion Ratio Lower Upper

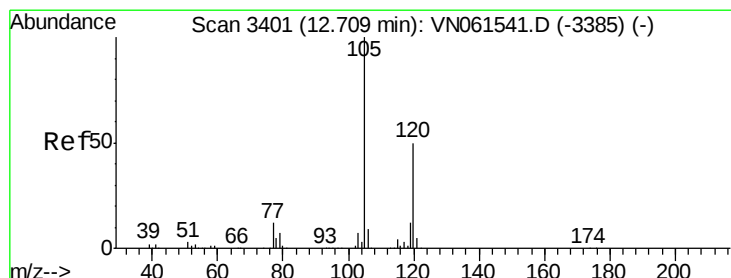
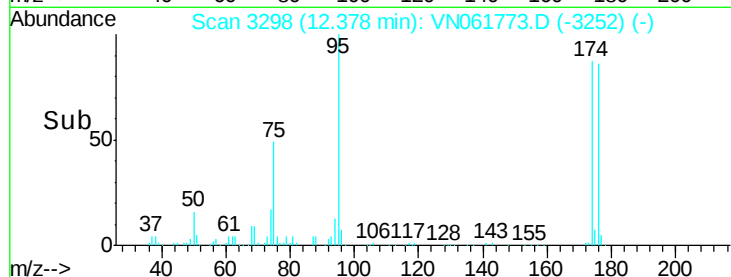
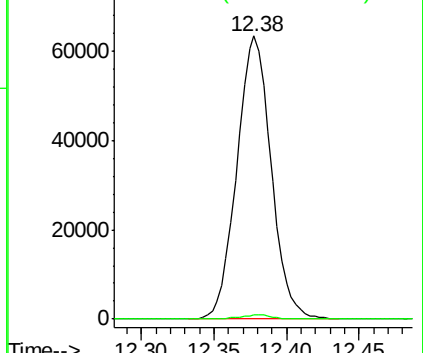
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061541.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061541.D (-3340) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.54 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061773.D

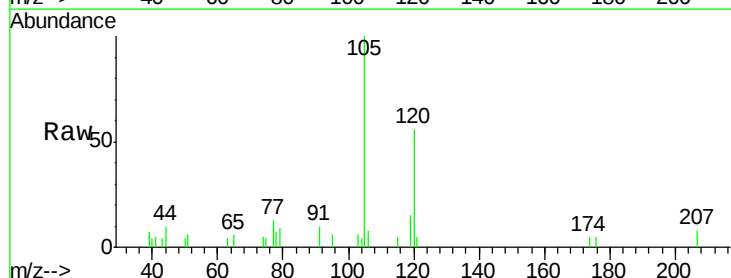
Acq: 12 Jun 2020 6:51

Tgt Ion: 105 Resp: 7397

Ion Ratio Lower Upper

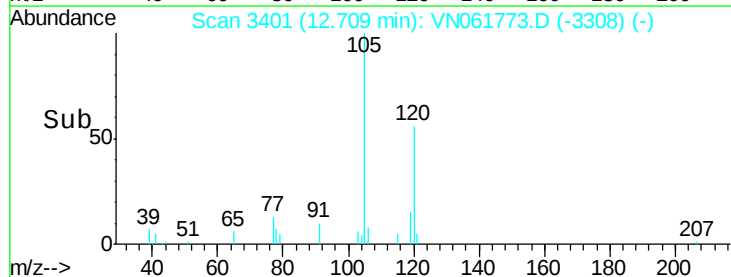
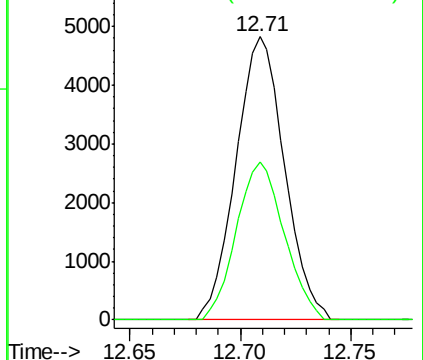
105 100

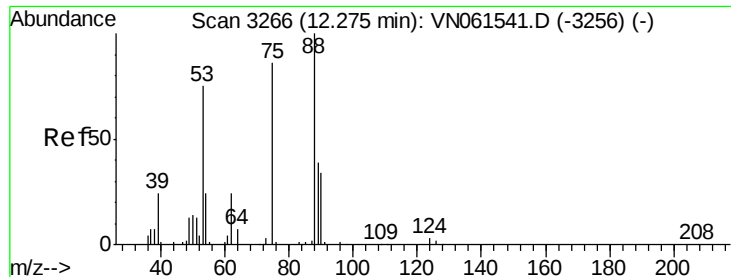
120 54.8 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN061541.D (-3385) (-)

Ion 120.00 (119.70 to 120.70): VN061541.D (-3385) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 64.95 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061773.D

Acq: 12 Jun 2020 6:51

Instrument :

MSVOA_N

ClientSampleId :

PB129452ZHE#03

Tgt Ion: 75 Resp: 104276

Ion Ratio Lower Upper

75 100

53 0.0 67.8 101.8#

89 0.0 37.1 55.7#

