

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN060820\
 Data File : VN061708.D
 Acq On : 8 Jun 2020 20:02
 Operator : JC/MD
 Sample : PB129340ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#03

Quant Time: Jun 09 03:15:13 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	292706	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	512360	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	521179	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	240129	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	169554	48.62	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.24%	
35) Dibromofluoromethane	7.55	113	132019	50.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.58%	
50) Toluene-d8	10.06	98	623562	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
62) 4-Bromofluorobenzene	12.38	95	224506	51.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.18%	

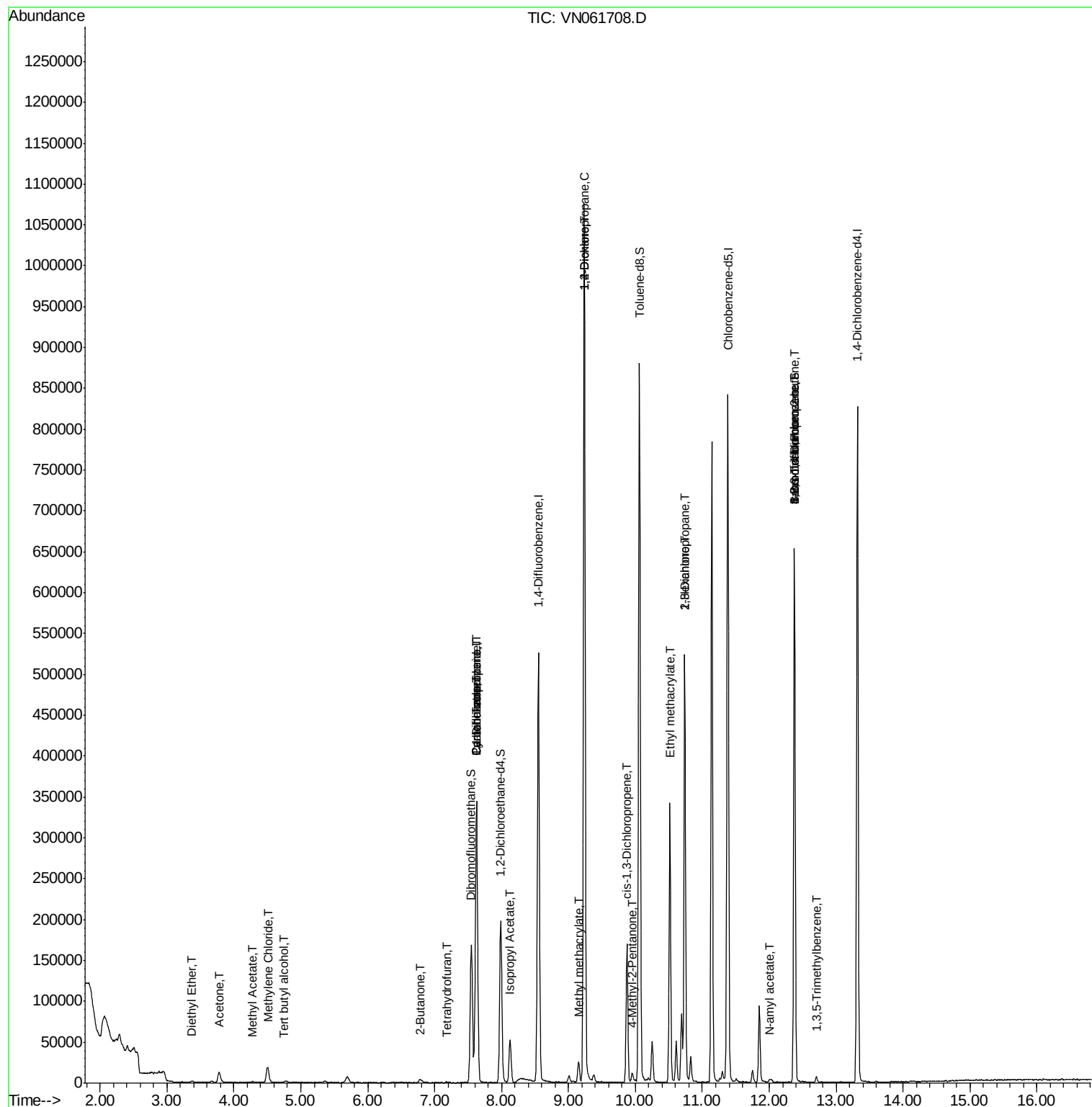
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.37	74	781	0.40	ug/l	79
11) Tert butyl alcohol	4.73	59	151	0.33	ug/l #	72
16) Acetone	3.78	43	22078	17.20	ug/l	96
18) Methyl Acetate	4.27	43	915	0.29	ug/l #	67
20) Methylene Chloride	4.51	84	15789	3.36	ug/l	94
25) 2-Butanone	6.79	43	2049	1.24	ug/l #	85
29) Tetrahydrofuran	7.19	42	619	0.57	ug/l #	49
31) Cyclohexane	7.63	56	5240	1.07	ug/l #	10
36) 1,1-Dichloropropene	7.62	75	20040	4.42	ug/l #	47
38) Carbon Tetrachloride	7.63	117	28227	6.45	ug/l #	17
43) Isopropyl Acetate	8.13	43	59844	9.11	ug/l #	90
45) 1,2-Dichloropropane	9.24	63	1300	0.39	ug/l #	44
48) Methyl methacrylate	9.15	41	3144	1.06	ug/l #	5
49) 1,4-Dioxane	9.23	88	98	2.14	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	8434	2.28	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	34327	5.87	ug/l #	65
56) Ethyl methacrylate	10.51	69	1206	0.24	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	6211	1.07	ug/l #	42
59) 2-Hexanone	10.74	43	62529	23.51	ug/l #	51
71) Bromoform	12.37	173	1980	0.64	ug/l #	1
74) N-amyl acetate	12.00	43	2533	0.46	ug/l #	38
76) 1,2,3-Trichloropropane	12.37	75	109141	25.00	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	3625	0.25	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.37	75	109141	63.92	ug/l #	15

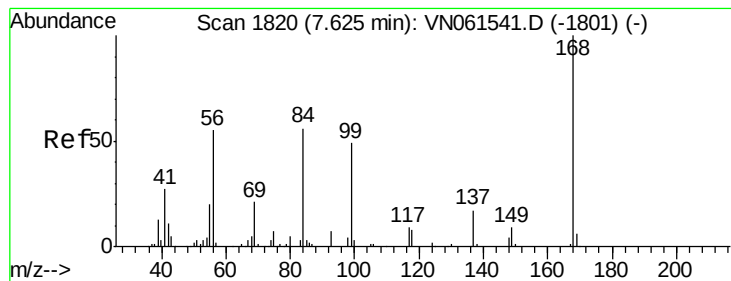
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri May 29 02:14:10 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

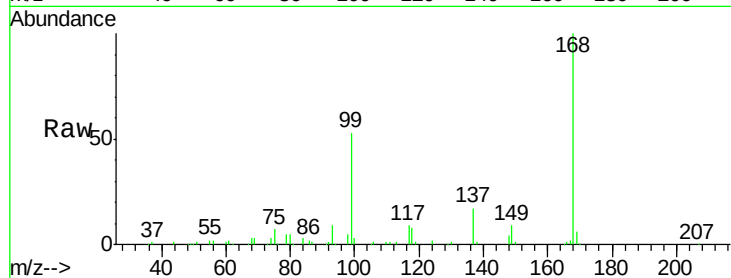
PB129340ZHE#03

Tgt Ion:168 Resp: 292706

Ion Ratio Lower Upper

168 100

99 53.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

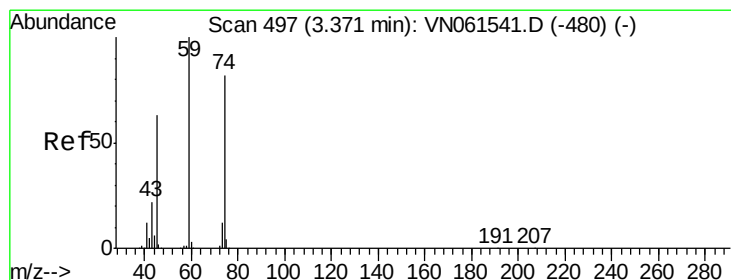
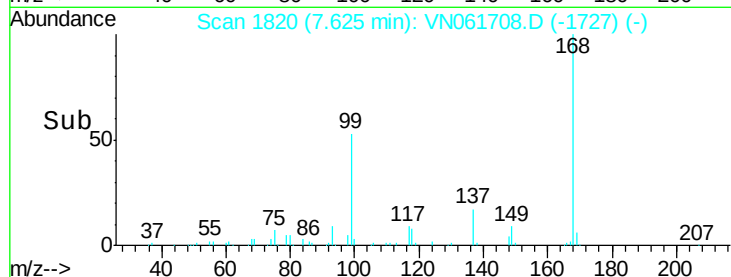
7.63

100000

50000

0

Time--> 7.50 7.60 7.70



#8

Diethyl Ether

Concen: 0.40 ug/l

RT: 3.37 min Scan# 497

Delta R.T. -0.00 min

Lab File: VN061708.D

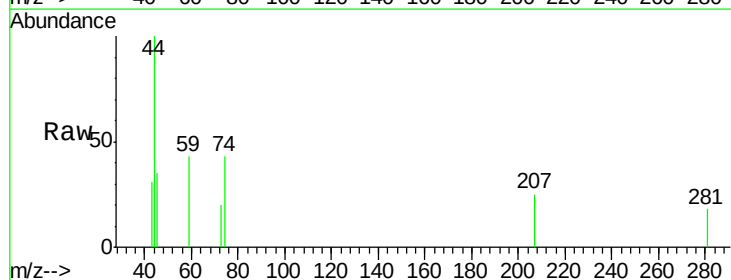
Acq: 8 Jun 2020 20:02

Tgt Ion: 74 Resp: 781

Ion Ratio Lower Upper

74 100

45 98.1 39.9 119.7



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

3.37

400

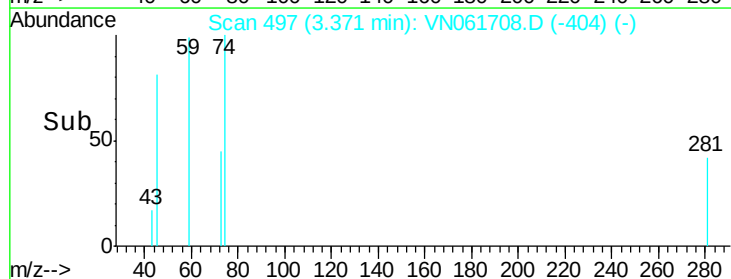
300

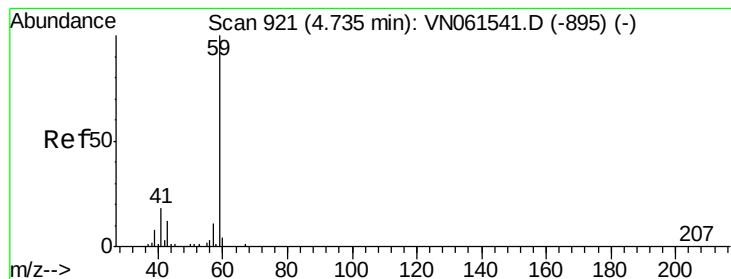
200

100

0

Time--> 3.35 3.40





#11

Tert butyl alcohol

Concen: 0.33 ug/l

RT: 4.73 min Scan# 921

Delta R.T. -0.00 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

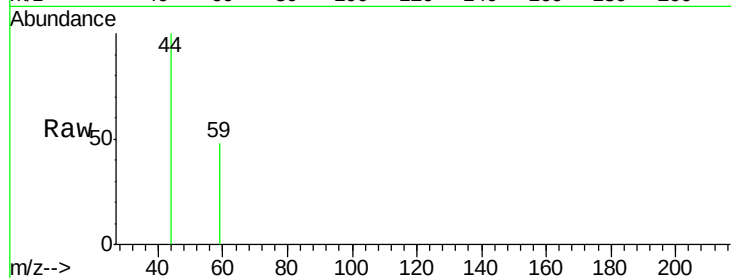
PB129340ZHE#03

Tgt Ion: 59 Resp: 151

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

250

200

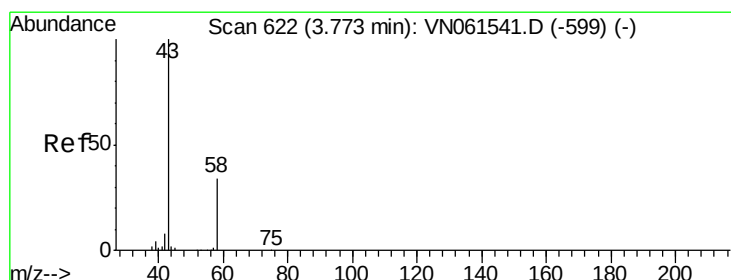
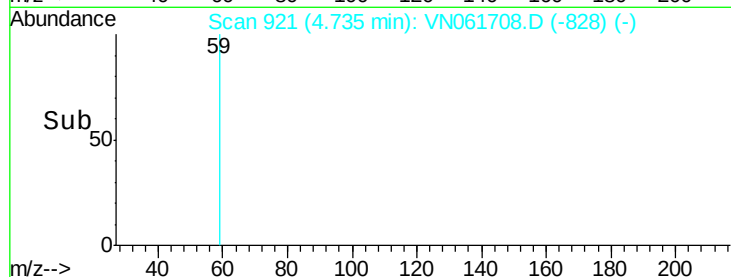
150

100

50

0

Time-->



#16

Acetone

Concen: 17.20 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.01 min

Lab File: VN061708.D

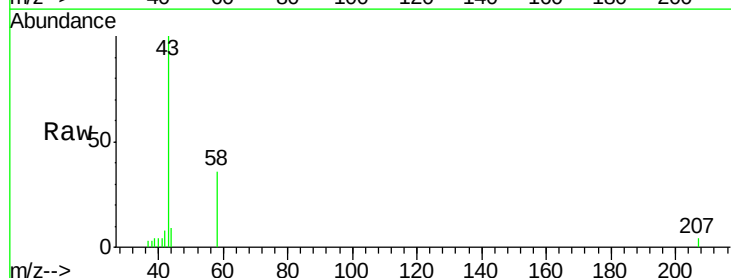
Acq: 8 Jun 2020 20:02

Tgt Ion: 43 Resp: 22078

Ion Ratio Lower Upper

43 100

58 36.4 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

8000

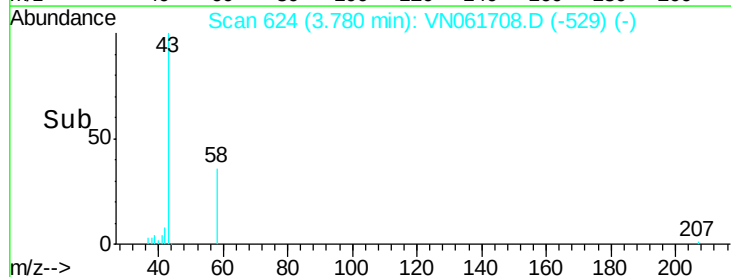
6000

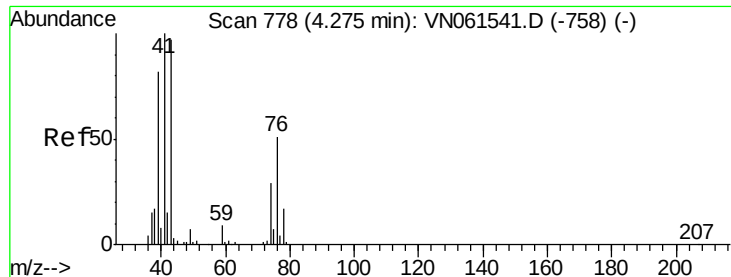
4000

2000

0

Time-->

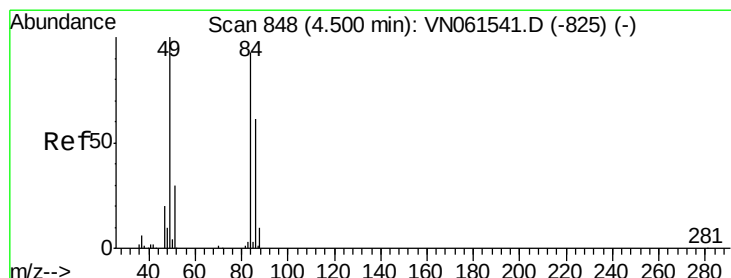
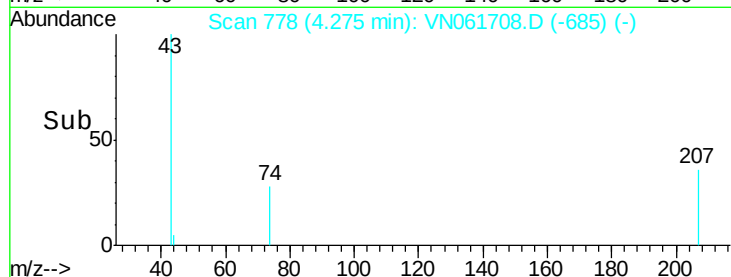
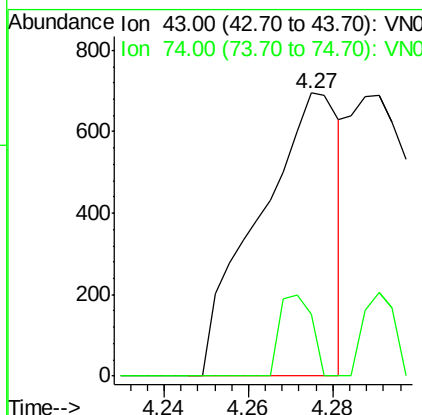
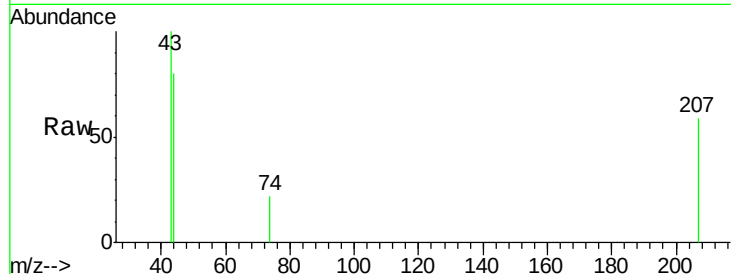




#18
Methyl Acetate
Concen: 0.29 ug/l
RT: 4.27 min Scan# 778
Delta R.T. -0.00 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

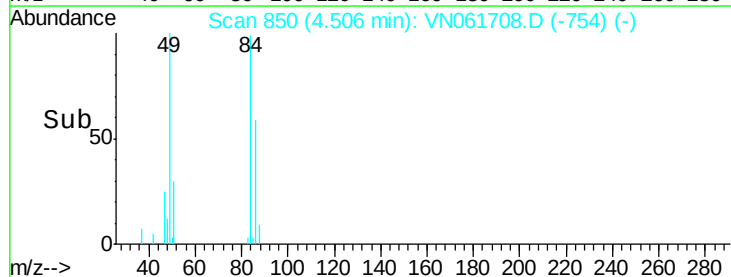
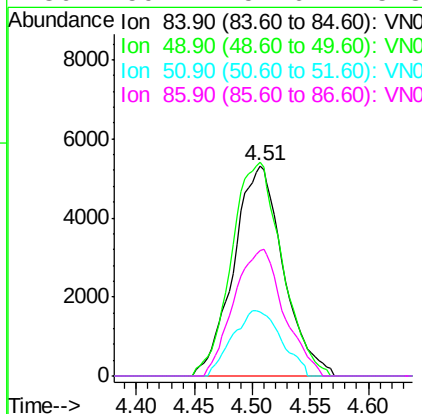
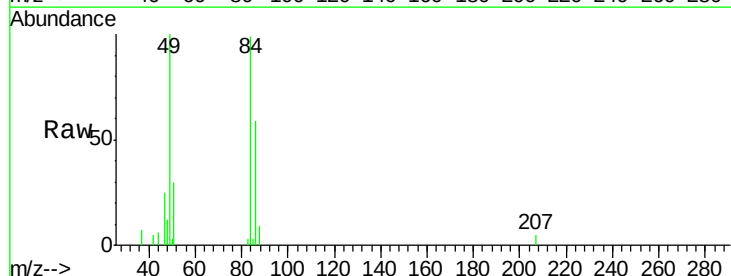
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#03

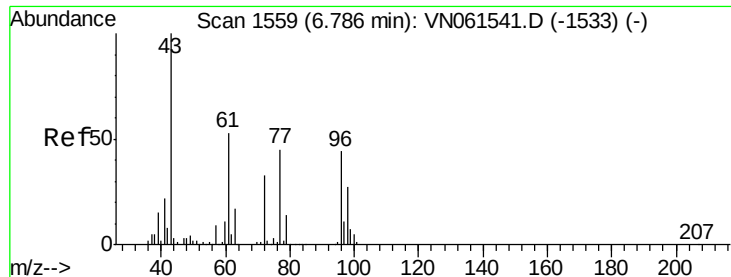
Tgt Ion: 43 Resp: 915
Ion Ratio Lower Upper
43 100
74 11.4 23.2 34.8#



#20
Methylene Chloride
Concen: 3.36 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.01 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

Tgt Ion: 84 Resp: 15789
Ion Ratio Lower Upper
84 100
49 101.5 85.8 128.8
51 30.2 26.2 39.2
86 59.4 52.6 78.8

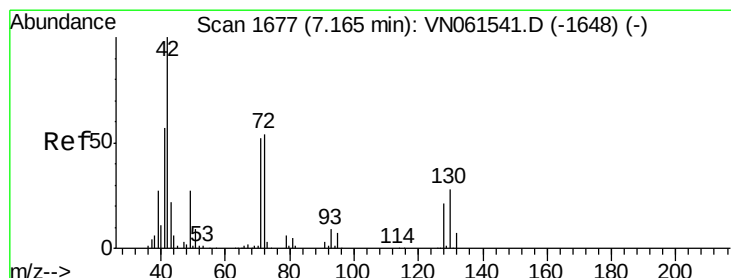
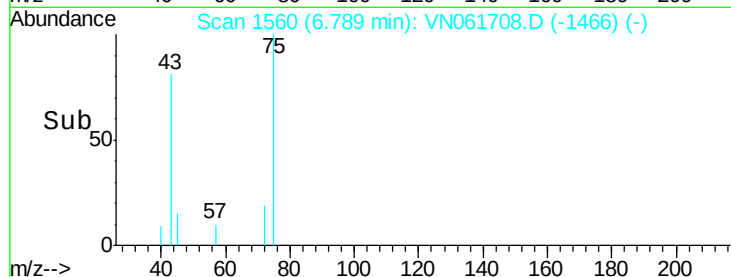
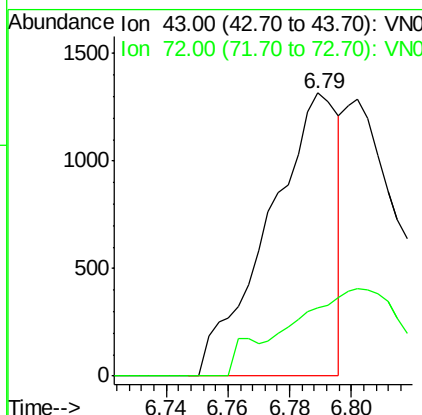
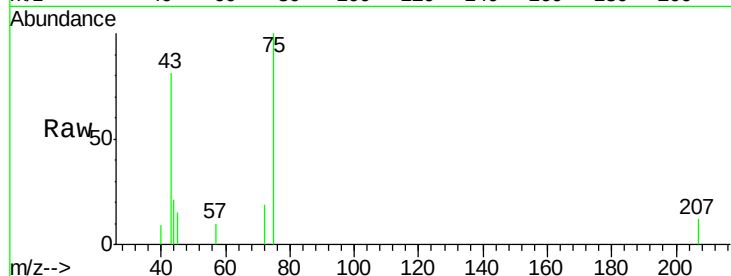




#25
 2-Butanone
 Concen: 1.24 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. 0.00 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

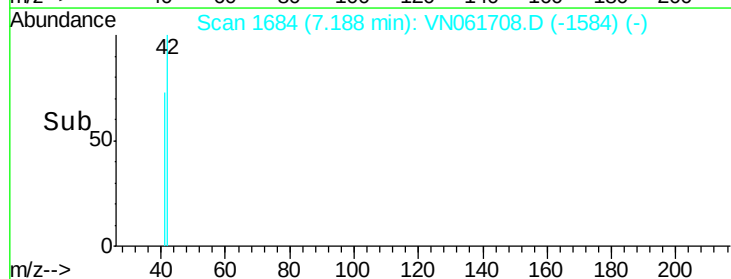
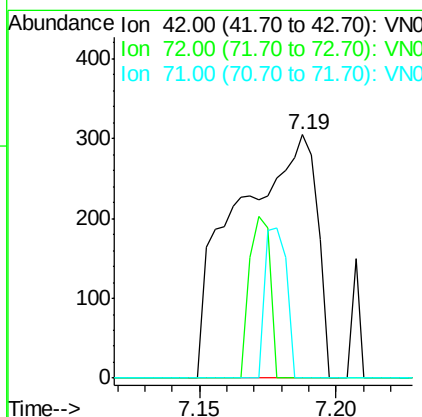
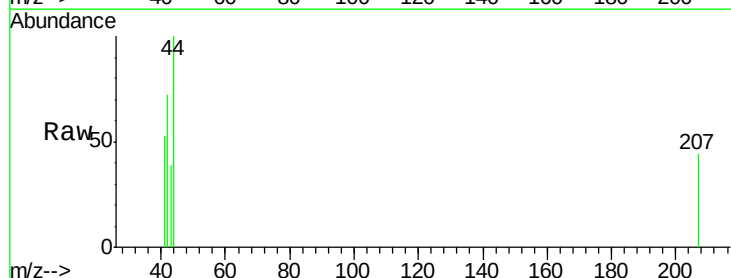
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#03

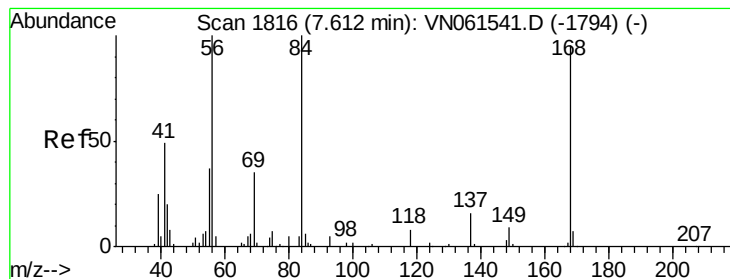
Tgt Ion: 43 Resp: 2049
 Ion Ratio Lower Upper
 43 100
 72 24.1 26.0 39.0#



#29
 Tetrahydrofuran
 Concen: 0.57 ug/l
 RT: 7.19 min Scan# 1684
 Delta R.T. 0.02 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

Tgt Ion: 42 Resp: 619
 Ion Ratio Lower Upper
 42 100
 72 16.8 43.6 65.4#
 71 16.3 41.2 61.8#





#31

Cyclohexane

Concen: 1.07 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.02 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#03

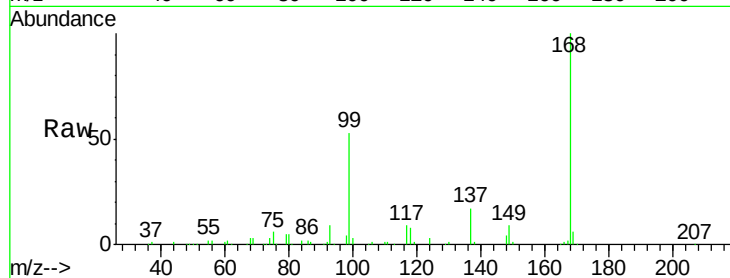
Tgt Ion: 56 Resp: 5240

Ion Ratio Lower Upper

56 100

69 172.8 27.8 41.8#

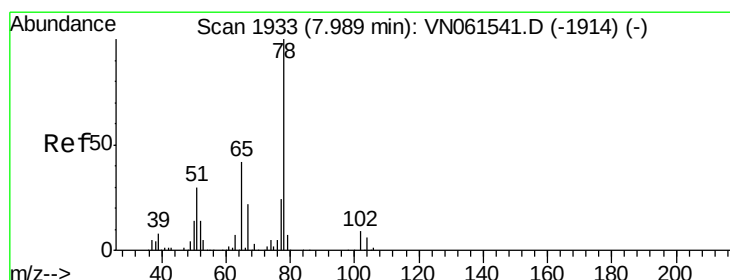
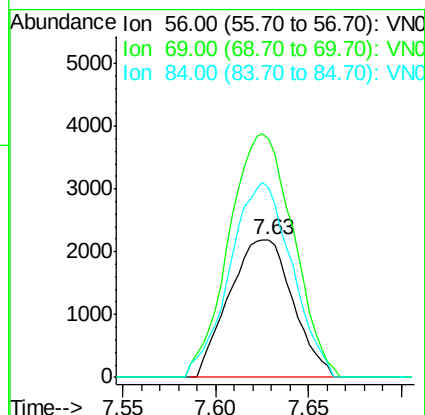
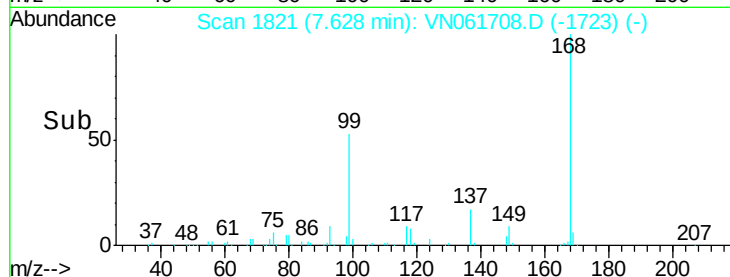
84 137.9 79.9 119.9#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 48.62 ug/l

RT: 7.99 min Scan# 1933

Delta R.T. -0.00 min

Lab File: VN061708.D

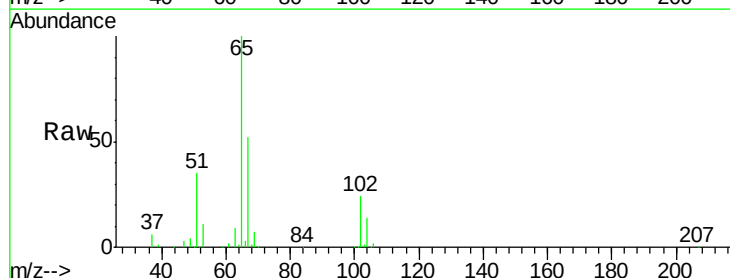
Acq: 8 Jun 2020 20:02

Tgt Ion: 65 Resp: 169554

Ion Ratio Lower Upper

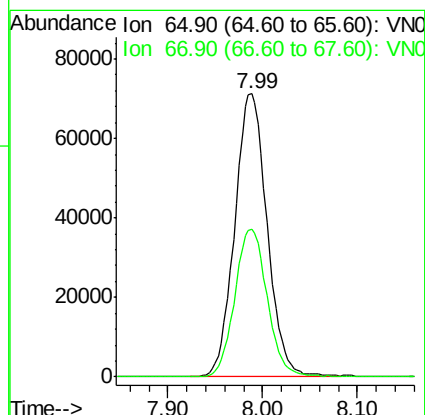
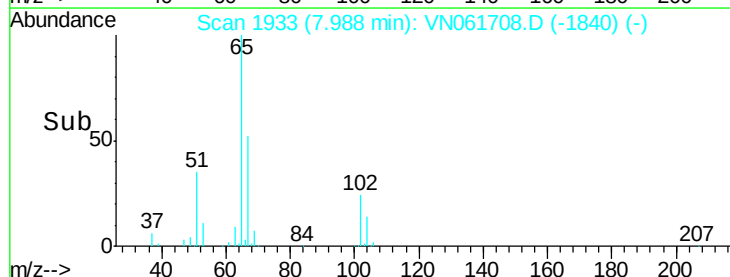
65 100

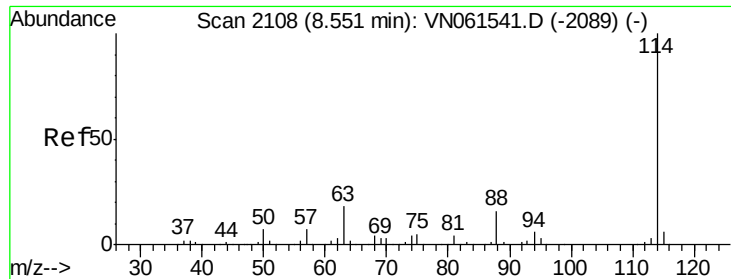
67 52.1 0.0 104.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

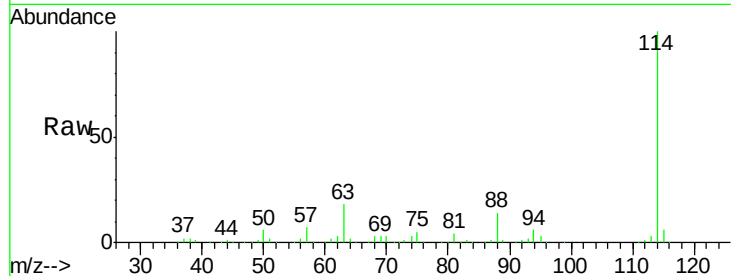




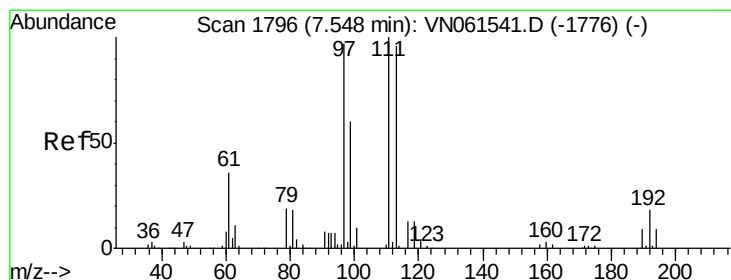
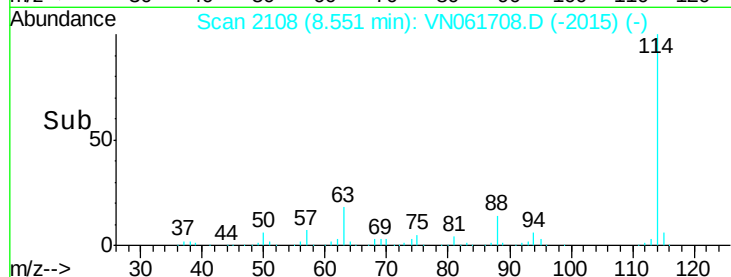
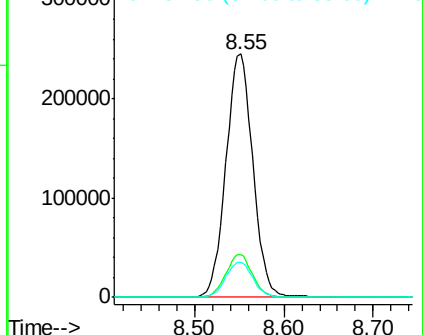
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

Instrument :
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PB129340ZHE#03

Tgt Ion:114 Resp: 512360
Ion Ratio Lower Upper
114 100
63 17.7 0.0 35.8
88 14.3 0.0 31.0

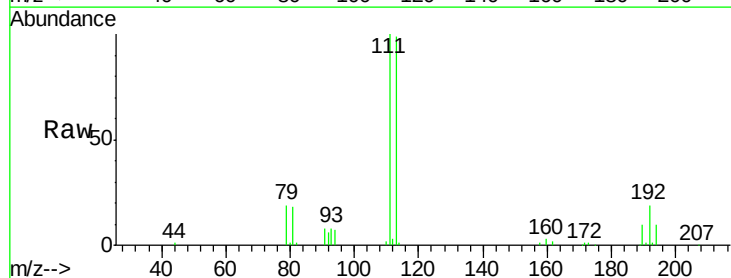


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

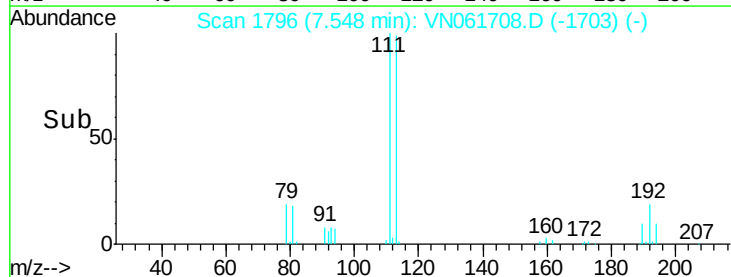
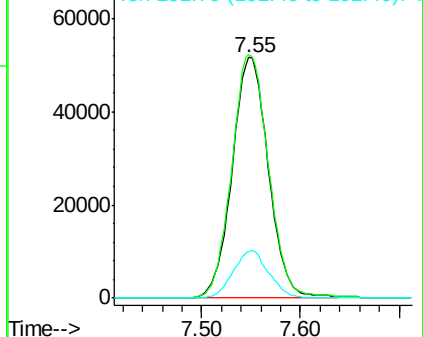


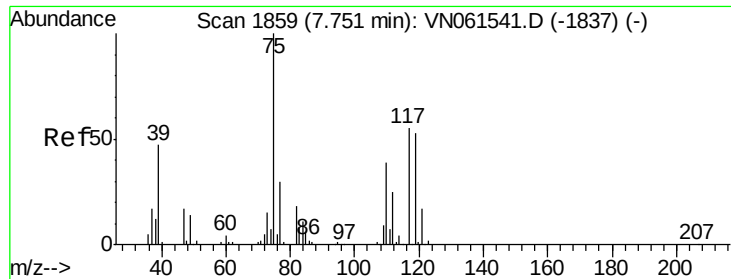
#35
Dibromofluoromethane
Concen: 50.79 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

Tgt Ion:113 Resp: 132019
Ion Ratio Lower Upper
113 100
111 101.9 83.4 125.0
192 19.3 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

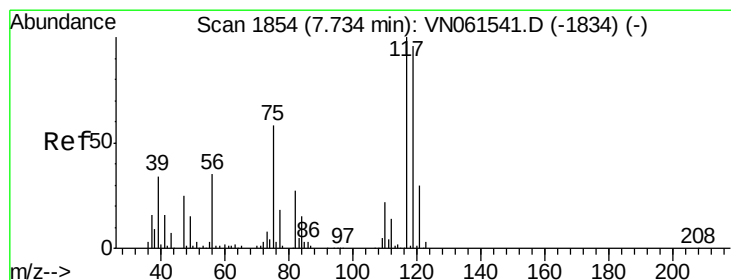
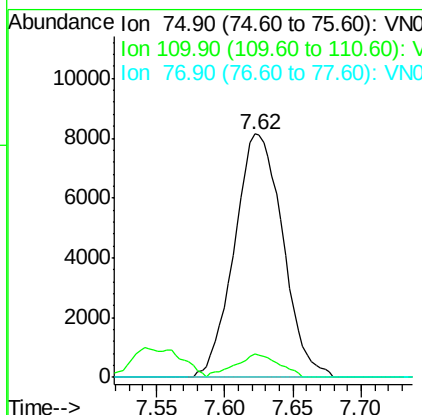
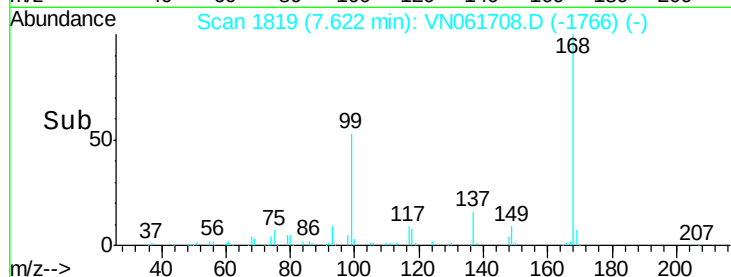
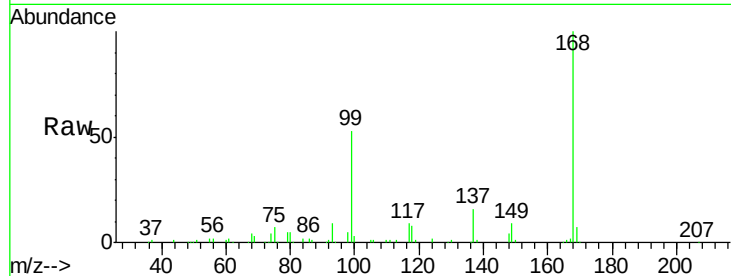




#36
 1,1-Dichloropropene
 Concen: 4.42 ug/l
 RT: 7.62 min Scan# 1819
 Delta R.T. -0.13 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

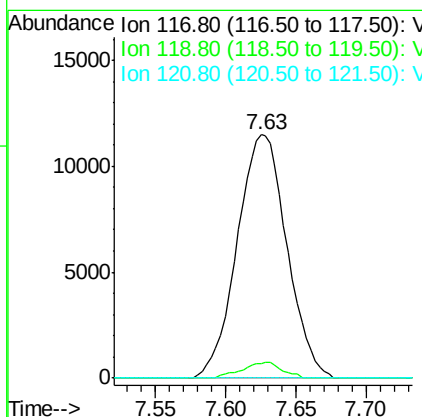
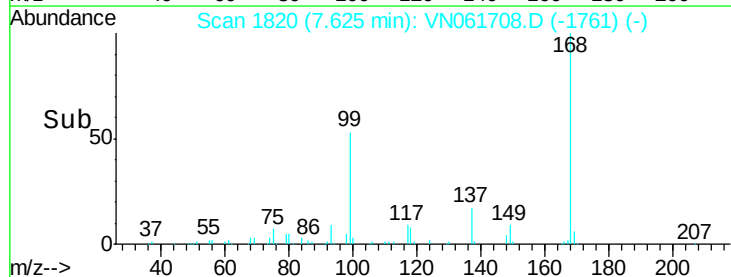
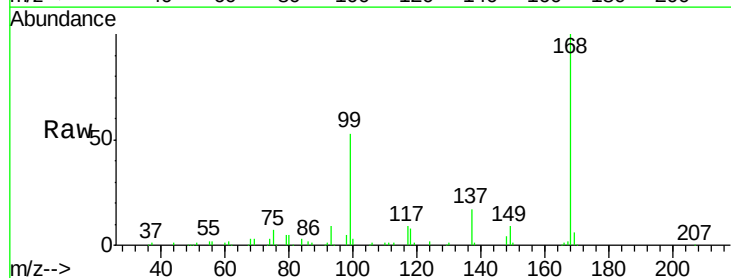
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#03

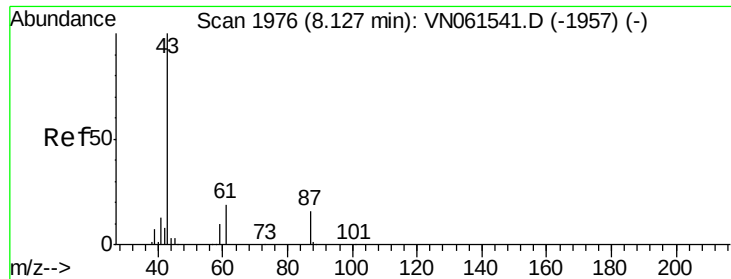
Tgt Ion: 75 Resp: 20040
 Ion Ratio Lower Upper
 75 100
 110 8.7 19.5 58.5#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 6.45 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.11 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

Tgt Ion: 117 Resp: 28227
 Ion Ratio Lower Upper
 117 100
 119 6.0 76.5 114.7#
 121 0.0 24.1 36.1#





#43

Isopropyl Acetate

Concen: 9.11 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. -0.00 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#03

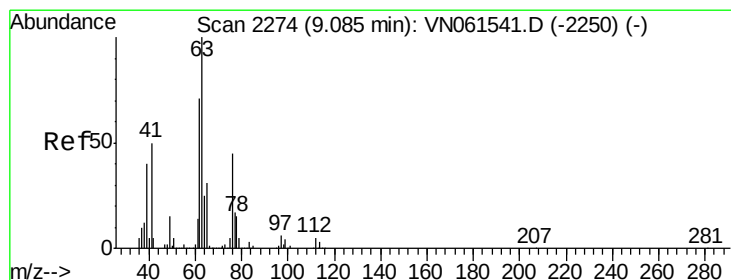
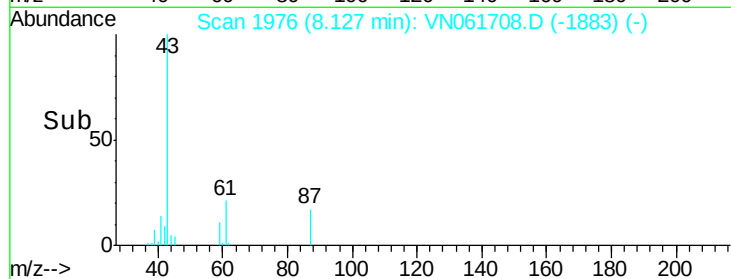
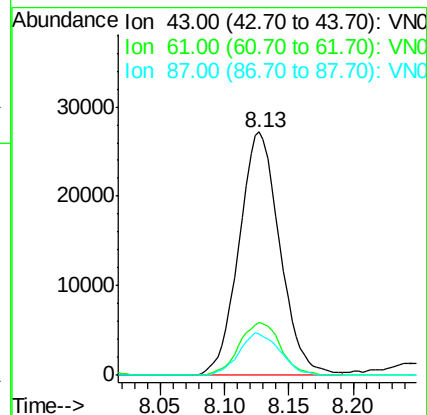
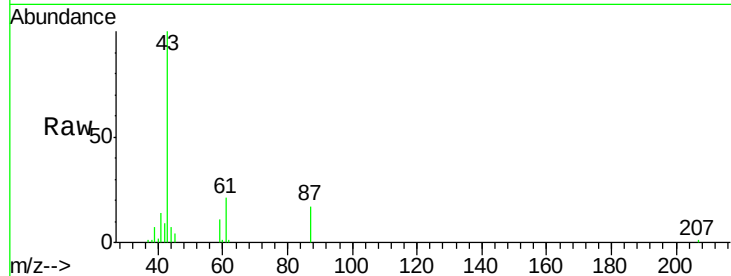
Tgt Ion: 43 Resp: 59844

Ion Ratio Lower Upper

43 100

61 22.1 23.6 35.4#

87 17.3 13.0 19.6



#45

1,2-Dichloropropane

Concen: 0.39 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061708.D

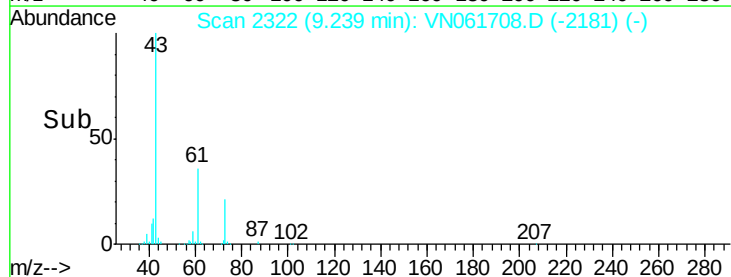
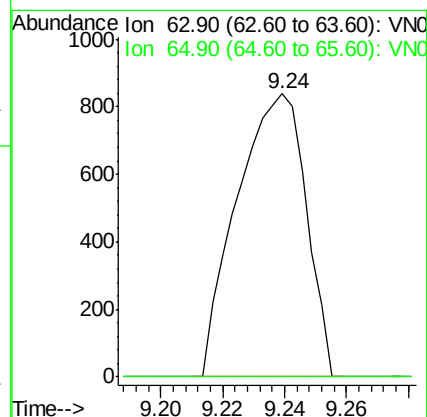
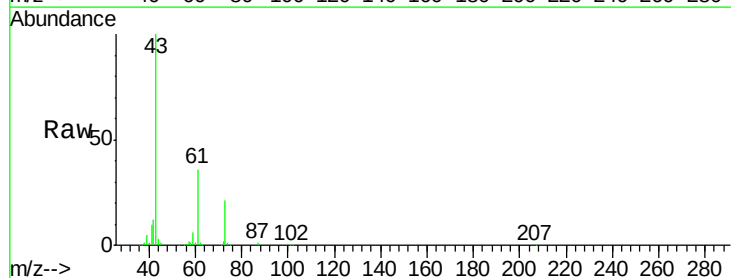
Acq: 8 Jun 2020 20:02

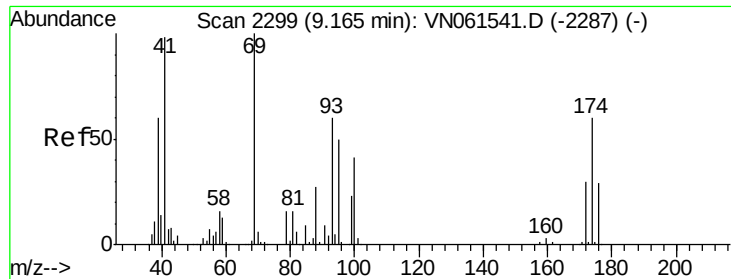
Tgt Ion: 63 Resp: 1300

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#

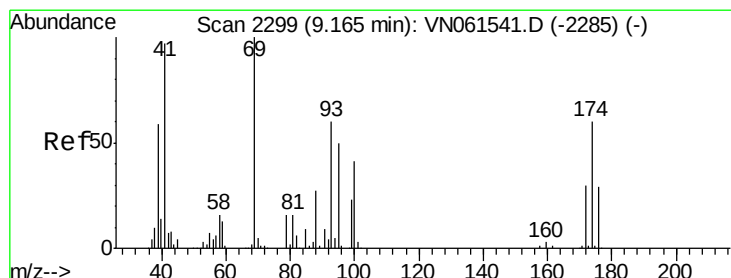
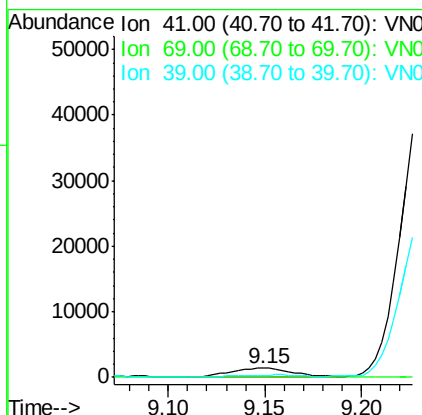
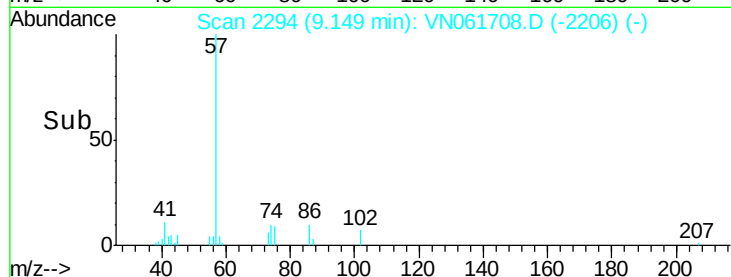
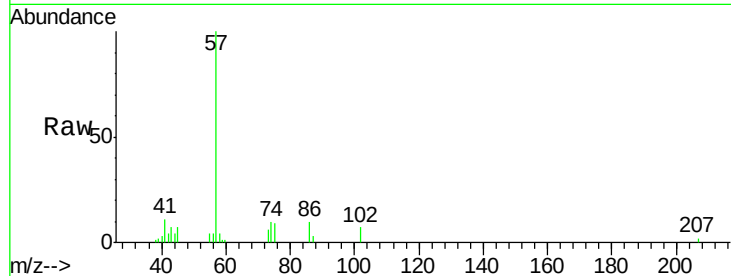




#48
Methyl methacrylate
Concen: 1.06 ug/l
RT: 9.15 min Scan# 2294
Delta R.T. -0.02 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

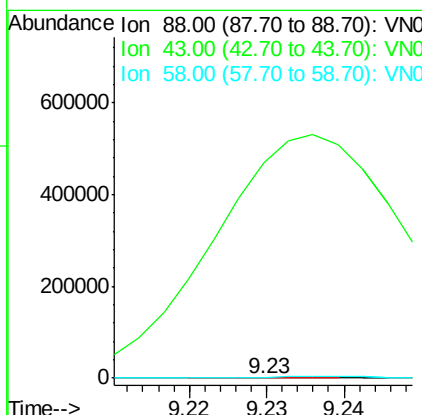
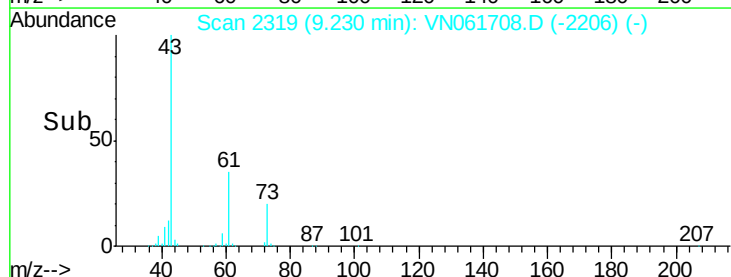
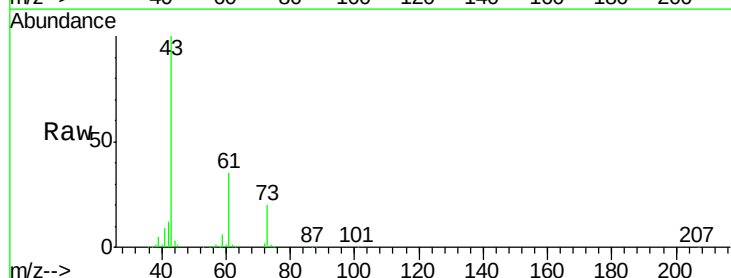
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#03

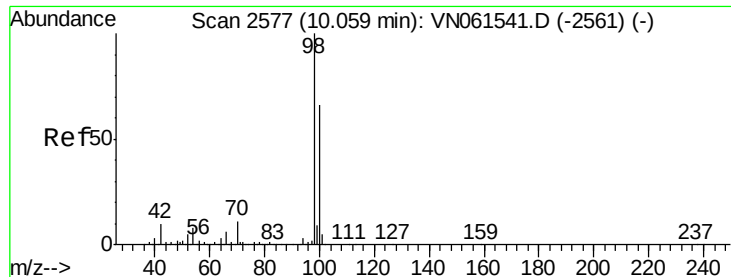
Tgt Ion: 41 Resp: 3144
Ion Ratio Lower Upper
41 100
69 0.0 83.9 125.9#
39 0.0 52.1 78.1#



#49
1,4-Dioxane
Concen: 2.14 ug/l
RT: 9.23 min Scan# 2319
Delta R.T. 0.06 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

Tgt Ion: 88 Resp: 98
Ion Ratio Lower Upper
88 100
43 998941.8 23.1 34.7#
58 5233.7 48.3 72.5#





#50

Toluene-d8

Concen: 51.77 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

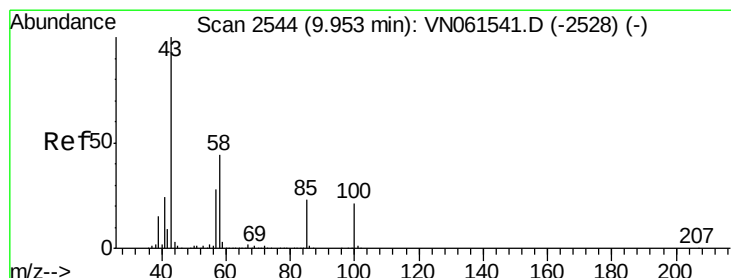
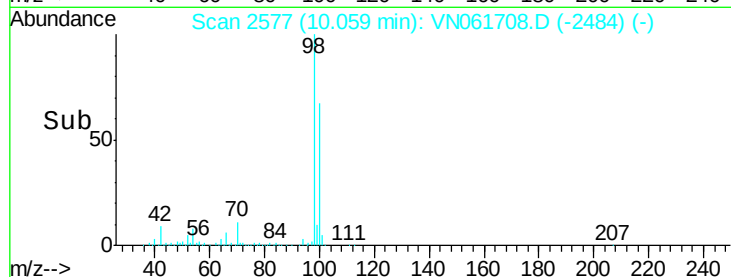
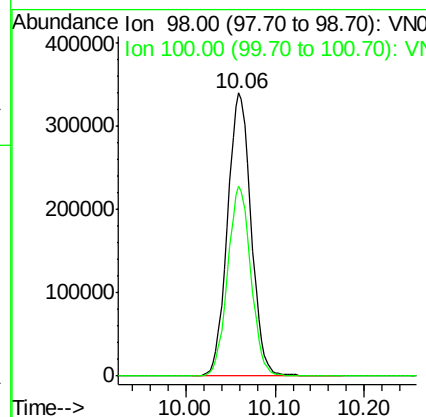
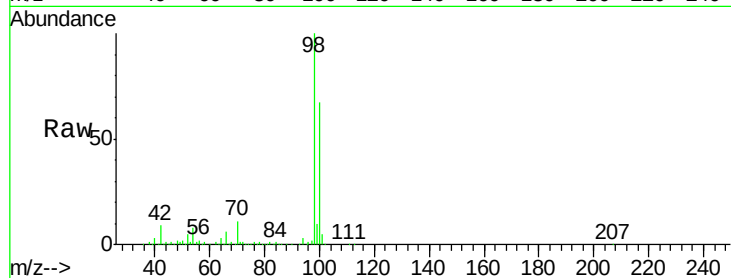
PB129340ZHE#03

Tgt Ion: 98 Resp: 623562

Ion Ratio Lower Upper

98 100

100 66.1 52.8 79.2



#51

4-Methyl-2-Pentanone

Concen: 2.28 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. -0.00 min

Lab File: VN061708.D

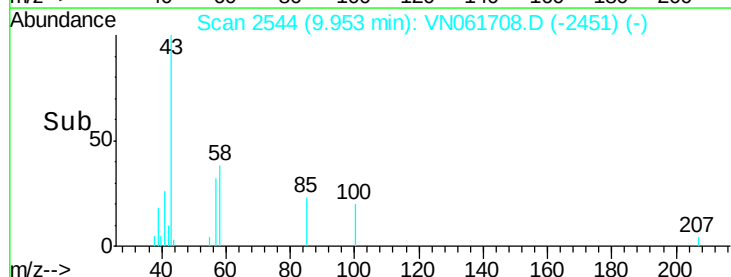
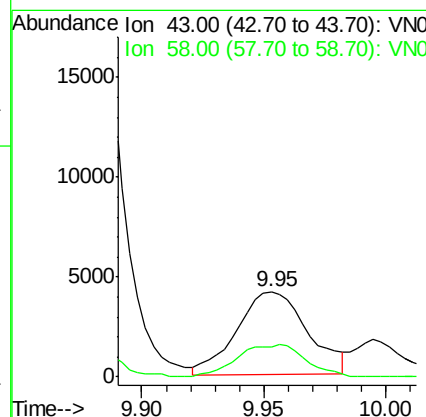
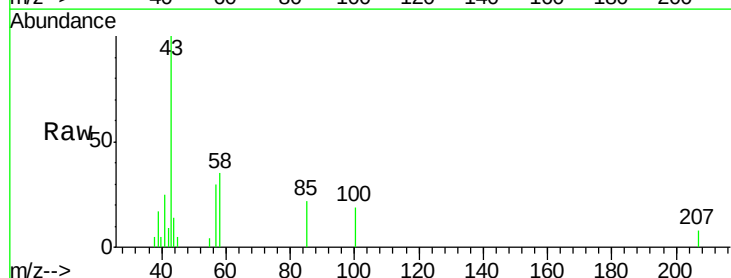
Acq: 8 Jun 2020 20:02

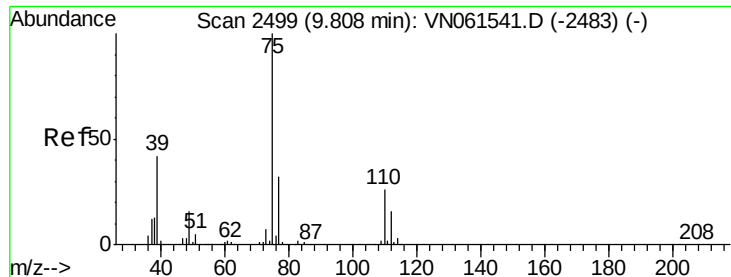
Tgt Ion: 43 Resp: 8434

Ion Ratio Lower Upper

43 100

58 37.4 35.0 52.6





#54

cis-1,3-Dichloropropene

Concen: 5.87 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#03

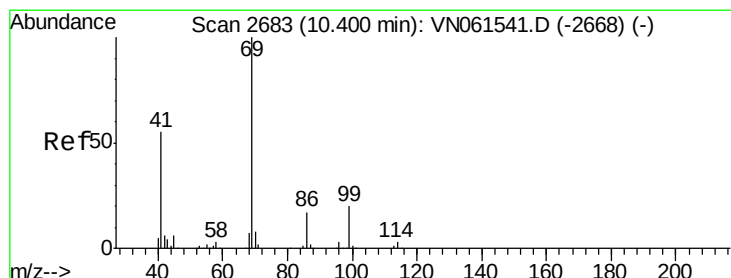
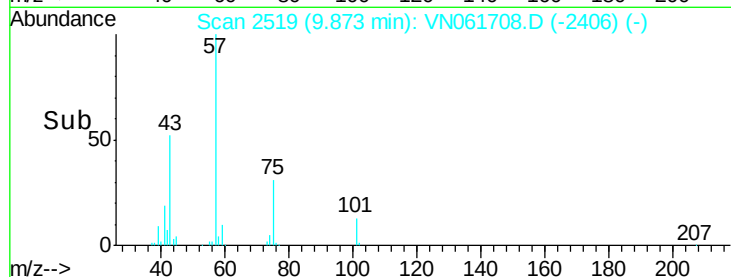
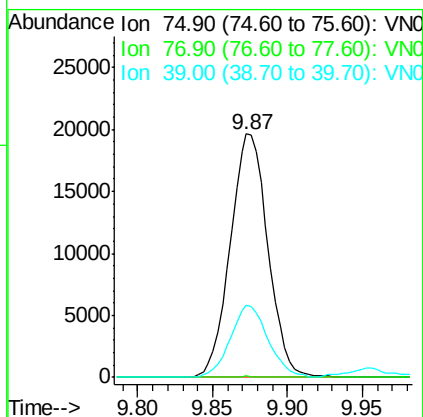
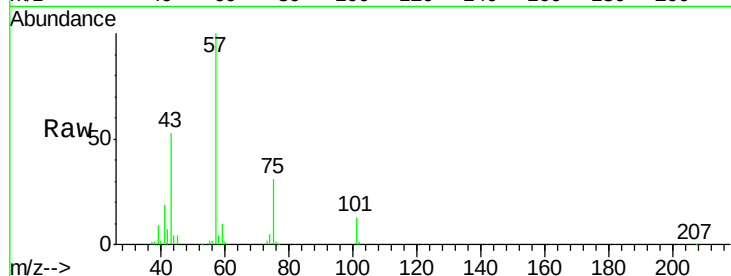
Tgt Ion: 75 Resp: 34327

Ion Ratio Lower Upper

75 100

77 0.9 25.4 38.2#

39 29.6 33.8 50.6#



#56

Ethyl methacrylate

Concen: 0.24 ug/l

RT: 10.51 min Scan# 2718

Delta R.T. 0.11 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

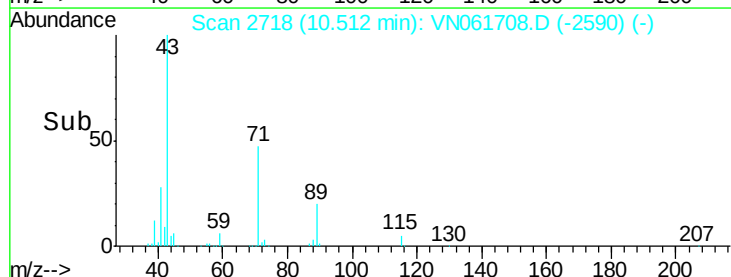
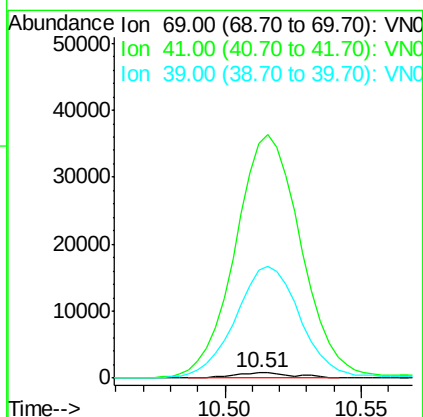
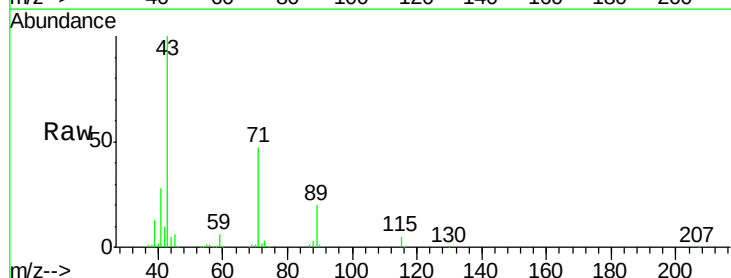
Tgt Ion: 69 Resp: 1206

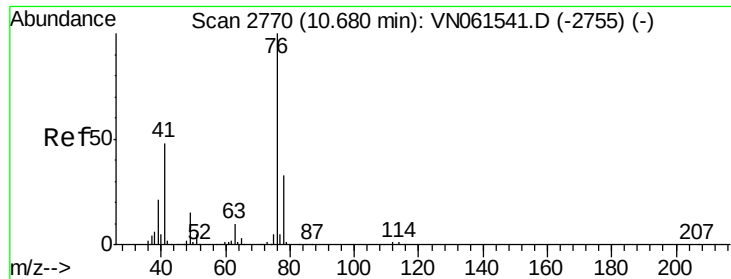
Ion Ratio Lower Upper

69 100

41 5074.1 43.5 65.3#

39 2305.9 27.0 40.6#

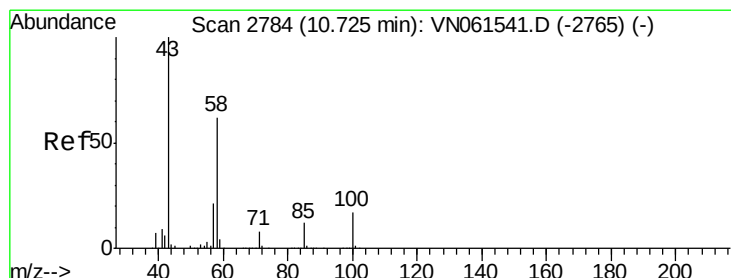
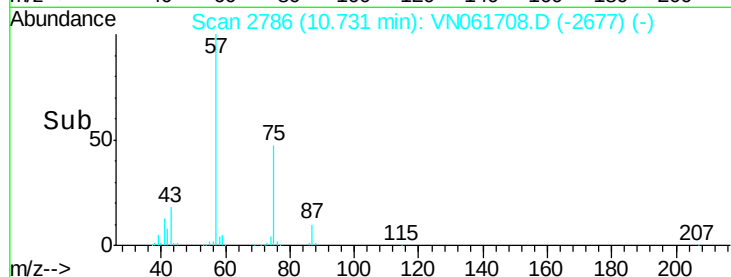
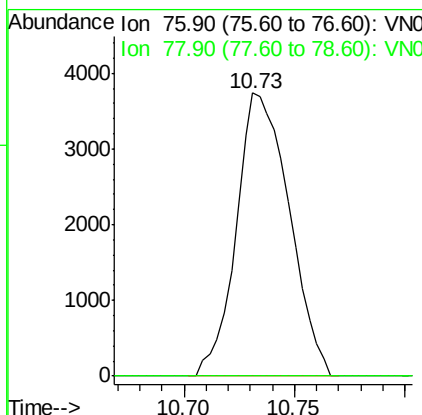
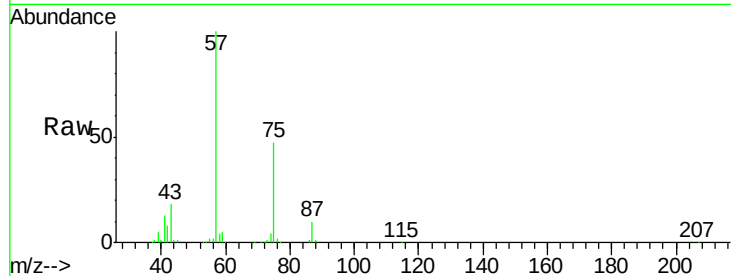




#57
 1,3-Dichloropropane
 Concen: 1.07 ug/l
 RT: 10.73 min Scan# 2786
 Delta R.T. 0.05 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

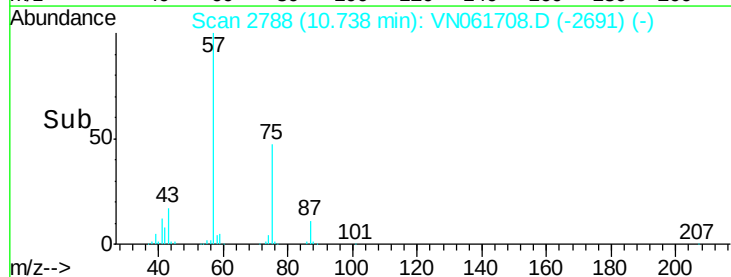
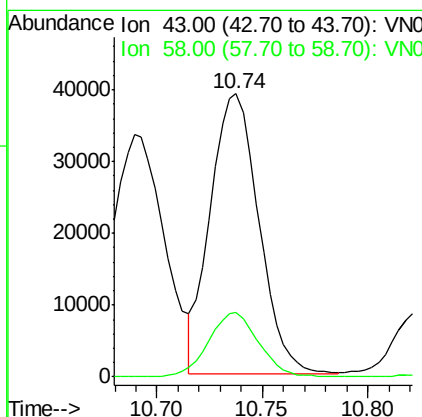
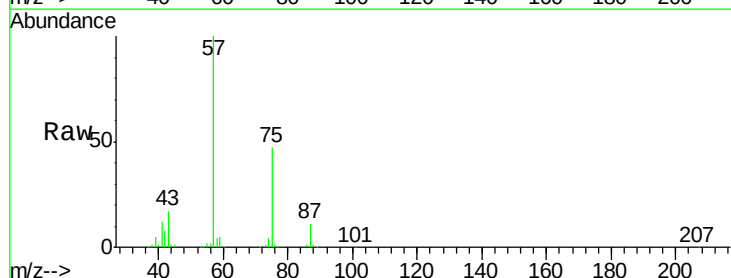
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#03

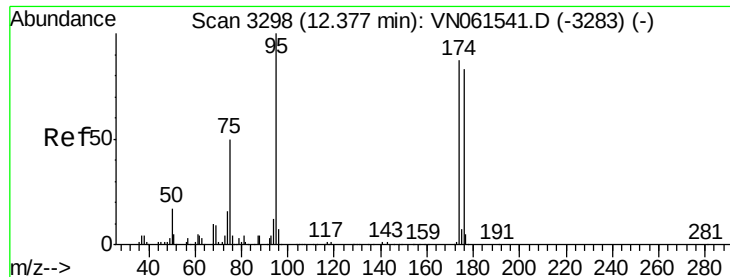
Tgt Ion: 76 Resp: 6211
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.3 39.5#



#59
 2-Hexanone
 Concen: 23.51 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.01 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

Tgt Ion: 43 Resp: 62529
 Ion Ratio Lower Upper
 43 100
 58 23.7 30.7 92.1#

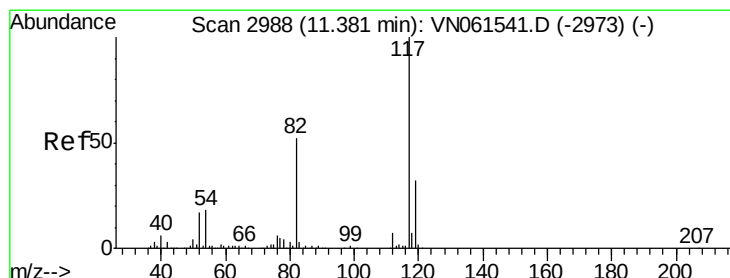
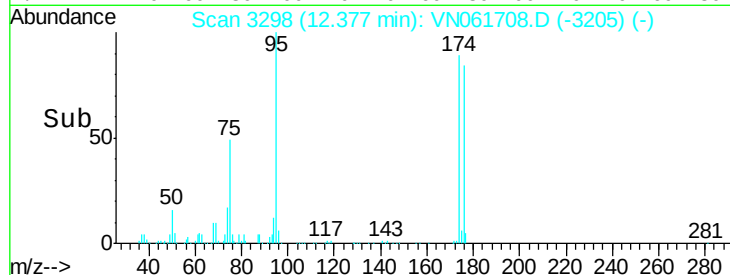
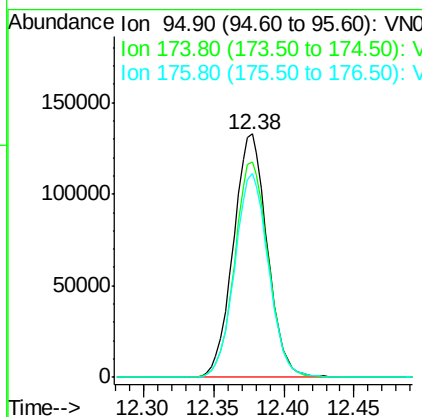
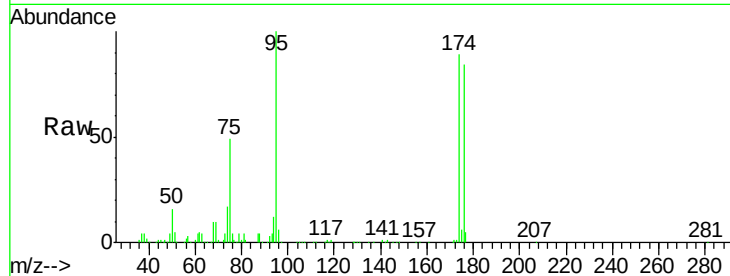




#62
4-Bromofluorobenzene
Concen: 51.09 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

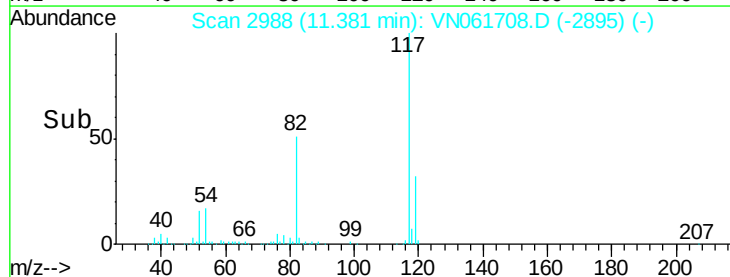
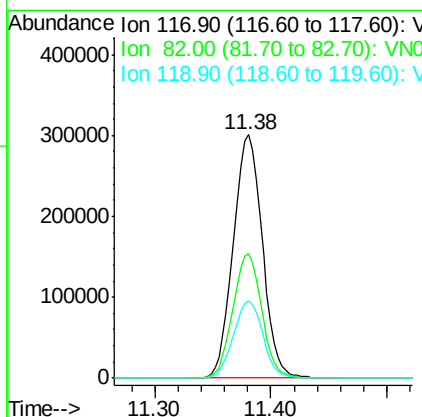
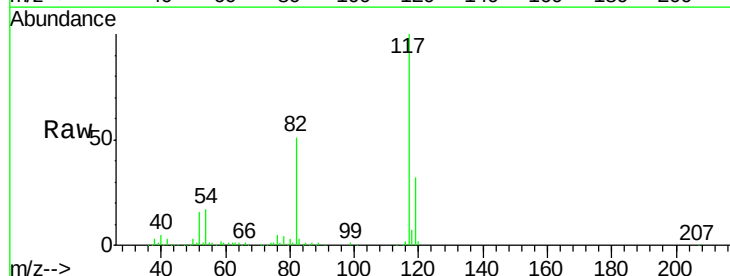
Instrument :
MSVOA_N
ClientSampleId :
PB129340ZHE#03

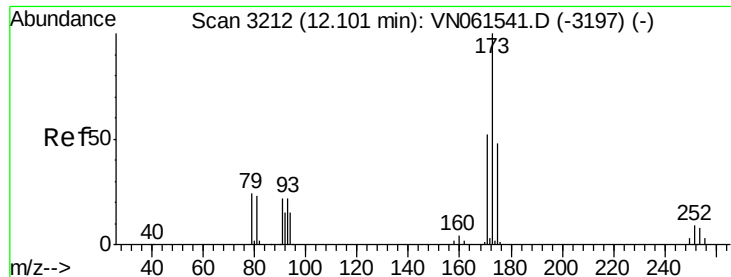
Tgt Ion: 95 Resp: 224506
Ion Ratio Lower Upper
95 100
174 87.9 0.0 172.8
176 83.2 0.0 164.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. -0.00 min
Lab File: VN061708.D
Acq: 8 Jun 2020 20:02

Tgt Ion: 117 Resp: 521179
Ion Ratio Lower Upper
117 100
82 51.2 41.5 62.3
119 31.8 25.6 38.4





#71

Bromoform

Concen: 0.64 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#03

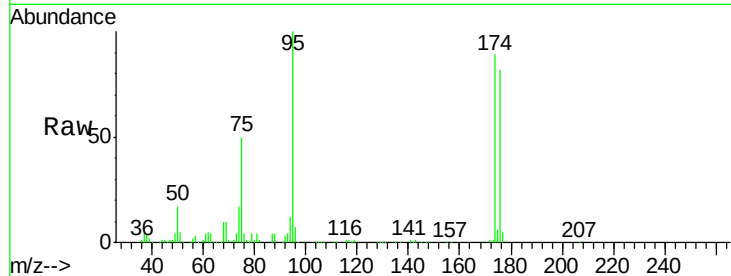
Tgt Ion:173 Resp: 1980

Ion Ratio Lower Upper

173 100

175 634.7 24.4 73.2#

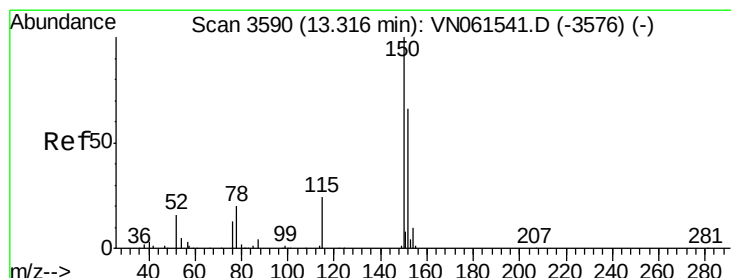
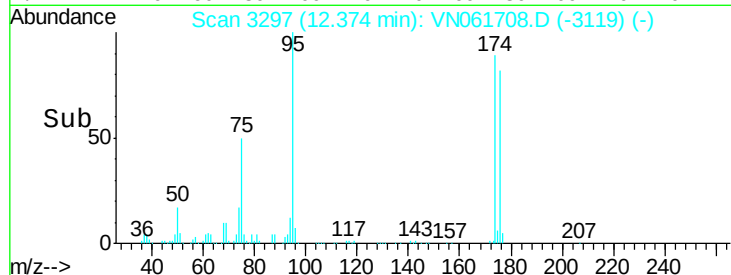
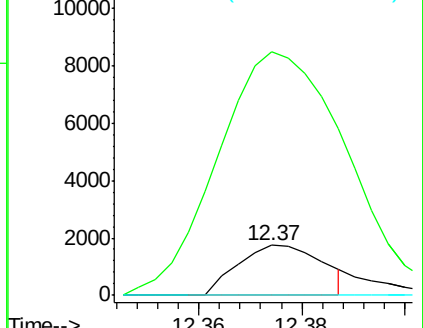
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

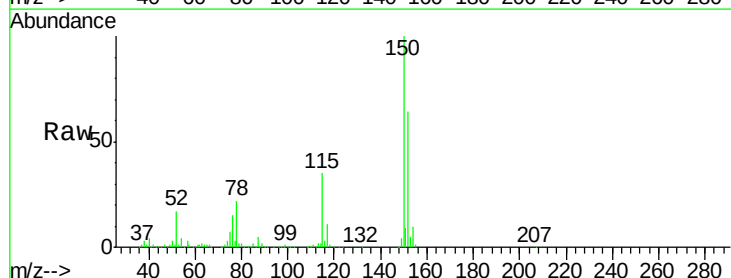
Tgt Ion:152 Resp: 240129

Ion Ratio Lower Upper

152 100

115 55.4 28.0 84.0

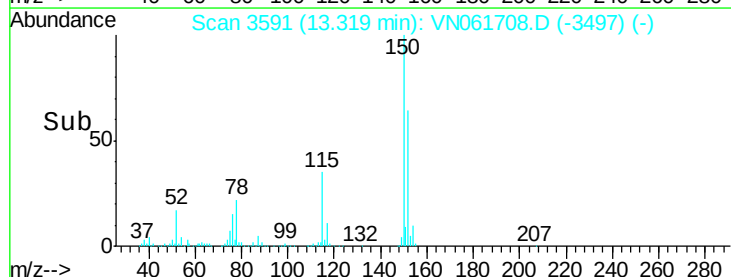
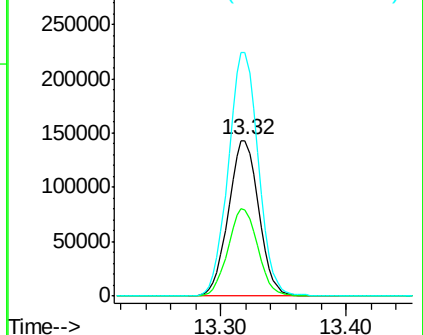
150 155.8 0.0 344.0

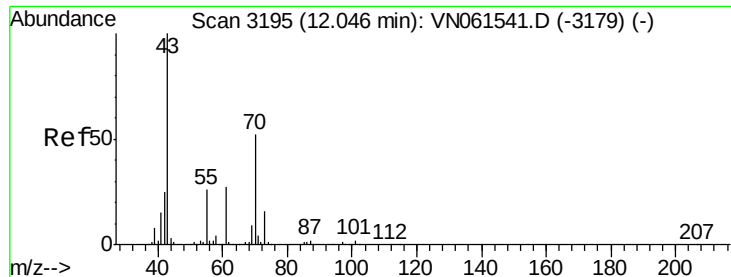


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.46 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061708.D

Acq: 8 Jun 2020 20:02

Instrument :

MSVOA_N

ClientSampleId :

PB129340ZHE#03

Tgt Ion: 43 Resp: 2533

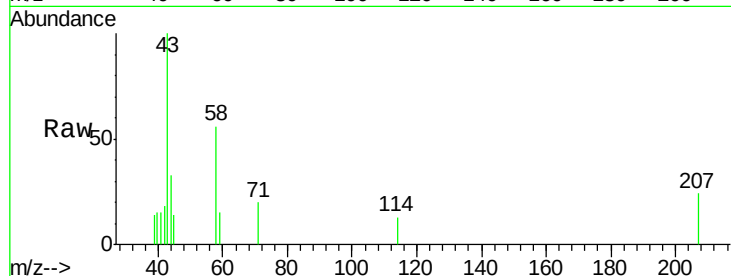
Ion Ratio Lower Upper

43 100

70 0.0 40.5 60.7#

55 0.0 20.6 31.0#

61 0.0 21.8 32.6#

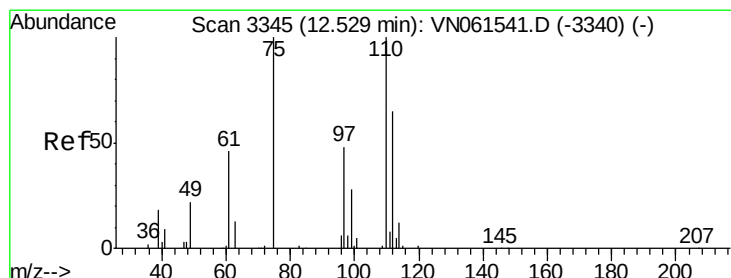
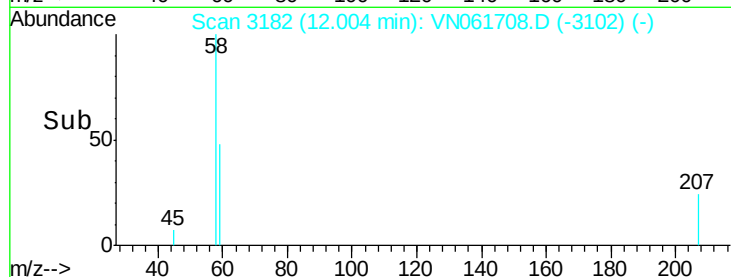
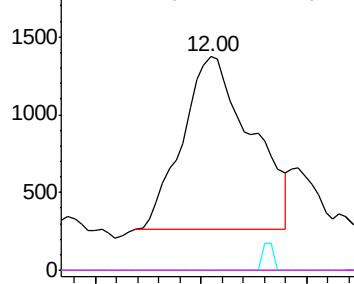


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 25.00 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061708.D

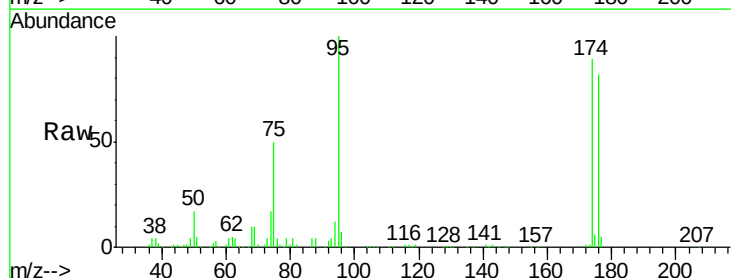
Acq: 8 Jun 2020 20:02

Tgt Ion: 75 Resp: 109141

Ion Ratio Lower Upper

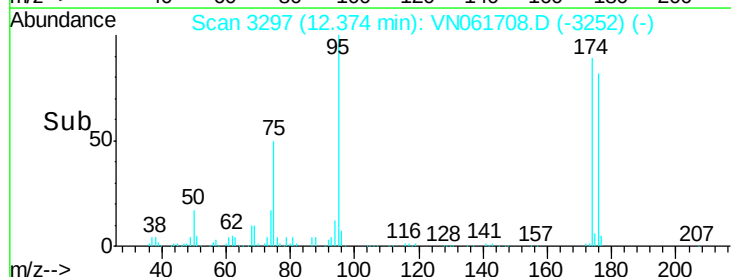
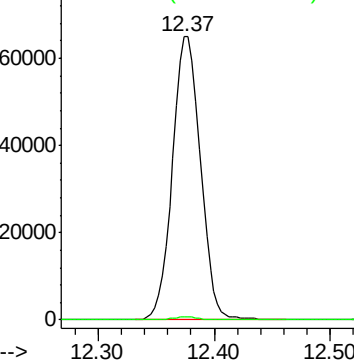
75 100

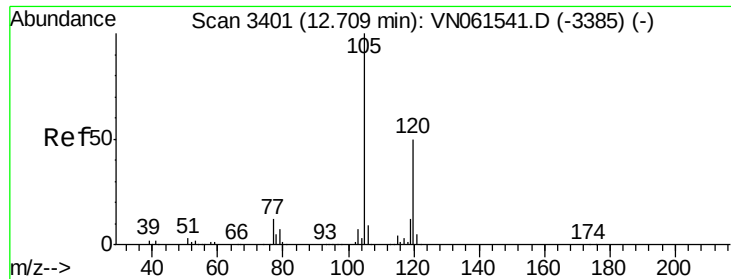
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

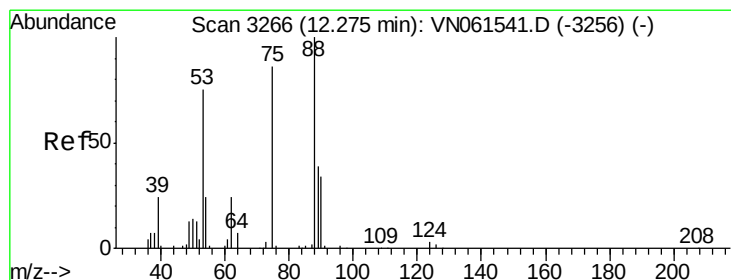
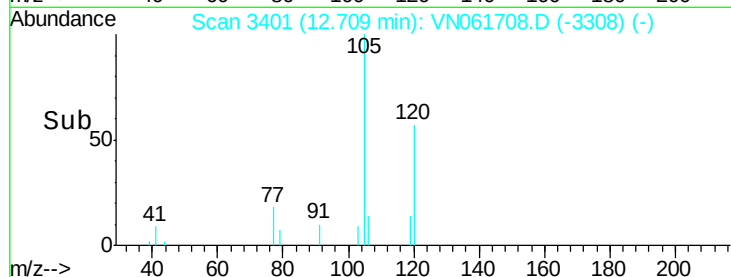
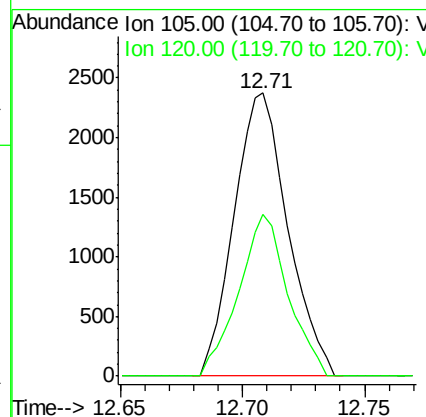
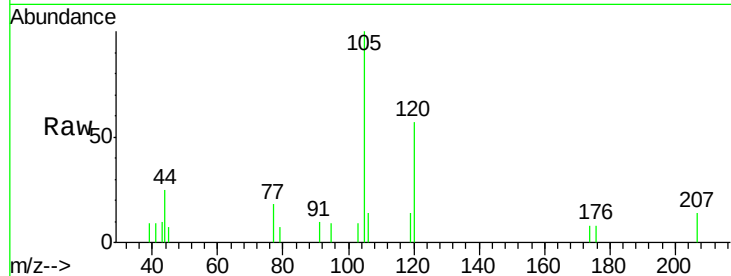




#80
 1,3,5-Trimethylbenzene
 Concen: 0.25 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. -0.00 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129340ZHE#03

Tgt Ion: 105 Resp: 3625
 Ion Ratio Lower Upper
 105 100
 120 52.2 25.1 75.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 63.92 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. 0.10 min
 Lab File: VN061708.D
 Acq: 8 Jun 2020 20:02

Tgt Ion: 75 Resp: 109141
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.8 101.8#
 89 0.0 37.1 55.7#

