

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052020\
 Data File : VN061513.D
 Acq On : 20 May 2020 20:10
 Operator : JC/MD
 Sample : PB129002ZHE#02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB129002ZHE#02

Quant Time: May 21 01:15:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	279903	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	512304	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	516215	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	224185	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	189365	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	
35) Dibromofluoromethane	7.55	113	137844	51.36	ug/l	0.00
Spiked Amount			Recovery	=	102.72%	
50) Toluene-d8	10.06	98	640397	51.44	ug/l	0.00
Spiked Amount			Recovery	=	102.88%	
62) 4-Bromofluorobenzene	12.38	95	250297	53.82	ug/l	0.00
Spiked Amount			Recovery	=	107.64%	

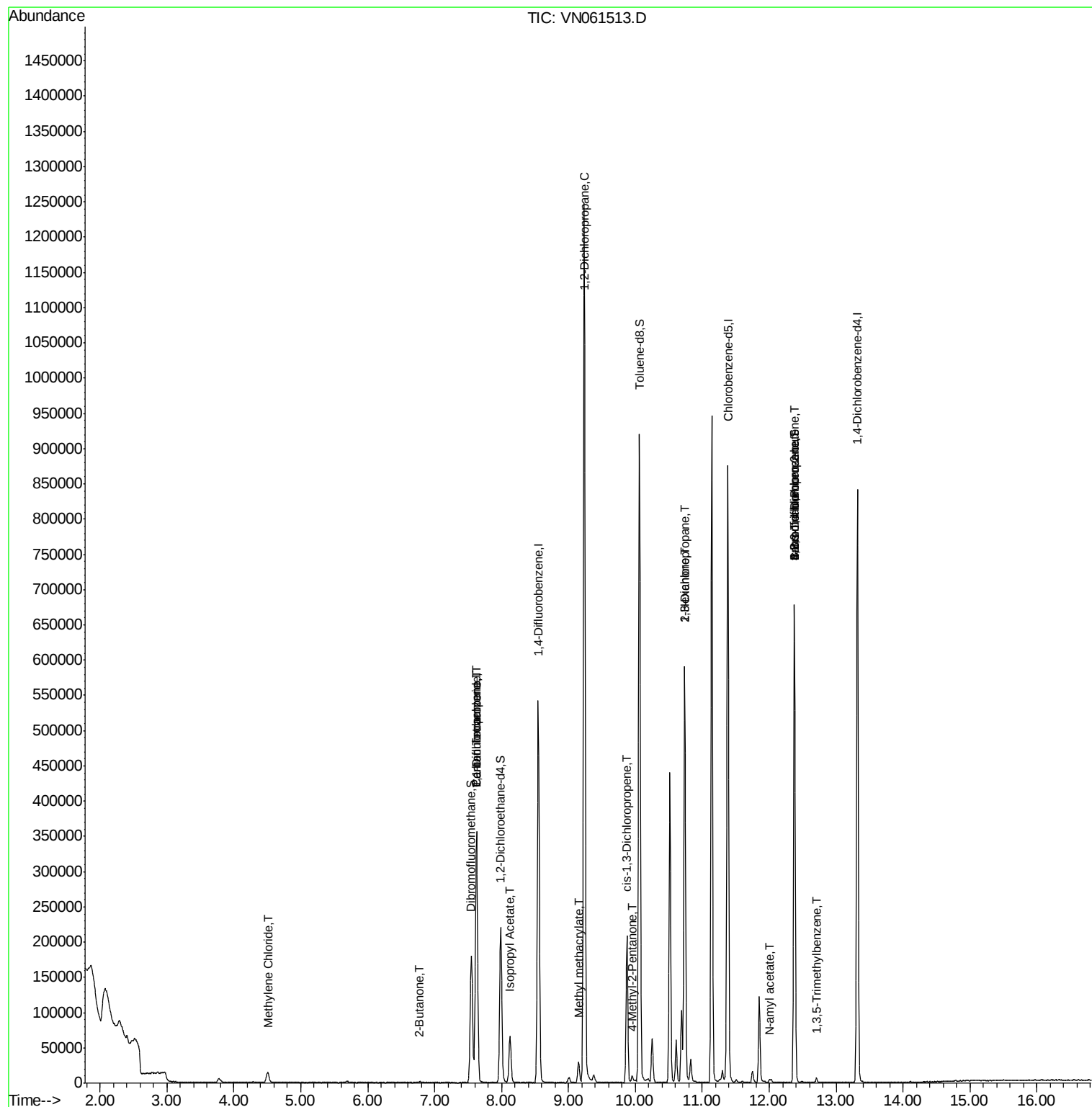
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	485	Below Cal	#	5
16) Acetone	3.78	43	9424	Below Cal		93
17) Carbon Disulfide	4.02	76	62	Below Cal	#	75
18) Methyl Acetate	4.28	43	2198	Below Cal	#	63
20) Methylene Chloride	4.51	84	11791	3.434	ug/l	92
25) 2-Butanone	6.78	43	484	0.254	ug/l #	46
31) Cyclohexane	7.63	56	6054	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	22864	4.773	ug/l #	49
38) Carbon Tetrachloride	7.63	117	28561	6.475	ug/l #	15
43) Isopropyl Acetate	8.13	43	76059	10.038	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	1616	0.447	ug/l #	43
48) Methyl methacrylate	9.14	41	3403	0.972	ug/l #	9
51) 4-Methyl-2-Pentanone	9.95	43	5242	1.270	ug/l	90
54) cis-1,3-Dichloropropene	9.88	75	41119	6.613	ug/l #	58
57) 1,3-Dichloropropane	10.74	76	6824	1.127	ug/l #	42
59) 2-Hexanone	10.74	43	81857	27.411	ug/l #	48
71) Bromoform	12.37	173	1962	2.662	ug/l #	1
74) N-amyl acetate	12.00	43	3881	0.589	ug/l #	42
76) 1,2,3-Trichloropropane	12.37	75	126979	26.397	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4008	0.272	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.37	75	126979	70.024	ug/l #	12

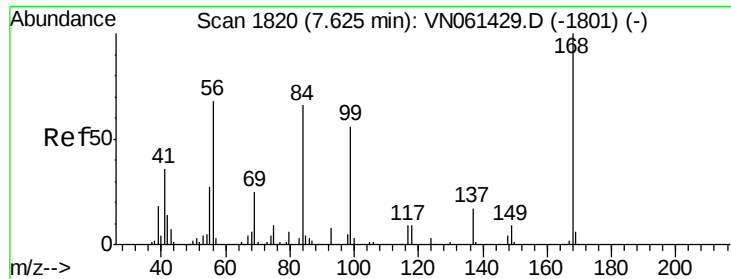
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. 0.00 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

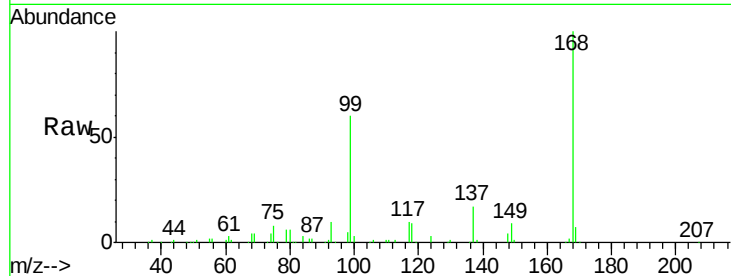
PB129002ZHE#02

Tot Ion:168 Resp: 279903

Ion Ratio Lower Upper

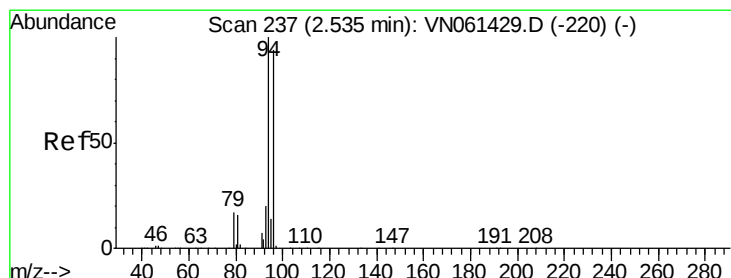
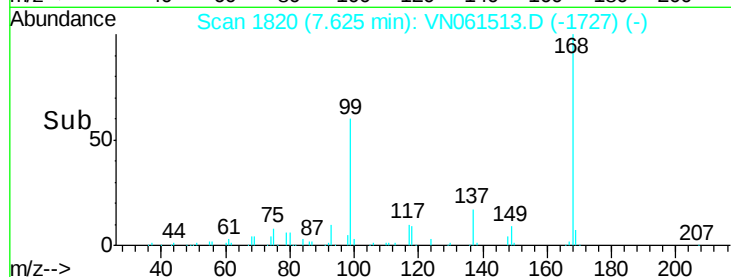
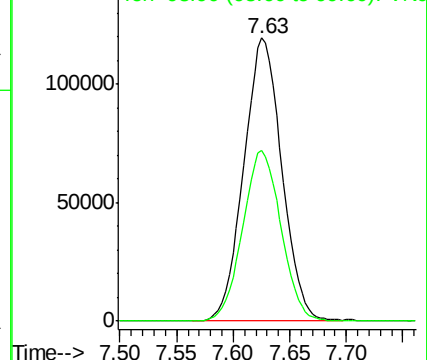
168 100

99 60.4 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 240

Delta R.T. 0.01 min

Lab File: VN061513.D

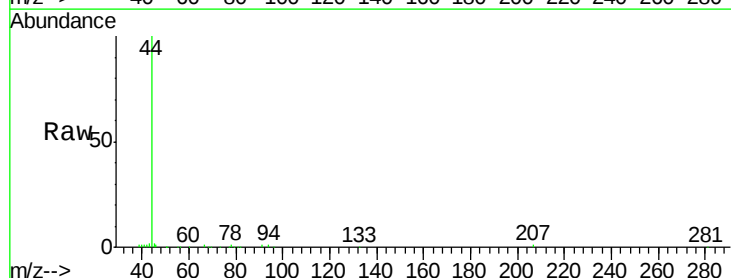
Acq: 20 May 2020 20:10

Tgt Ion: 94 Resp: 485

Ion Ratio Lower Upper

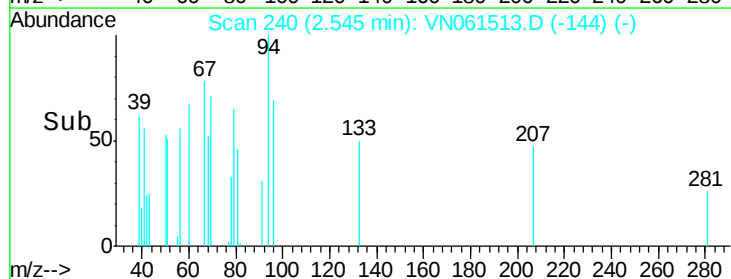
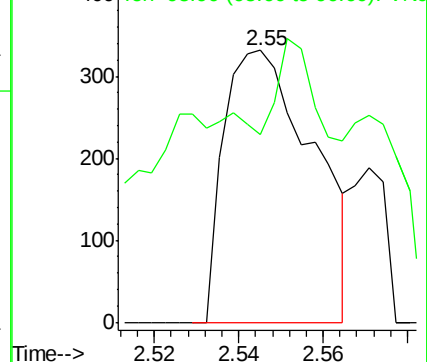
94 100

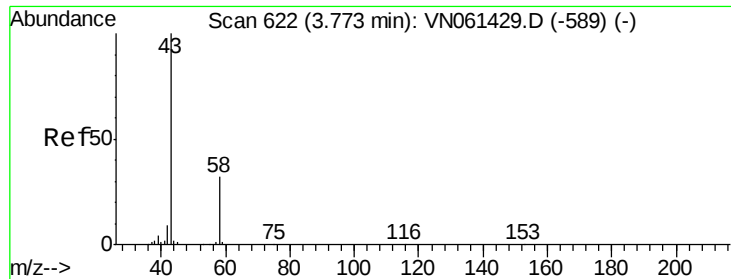
96 2.4 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

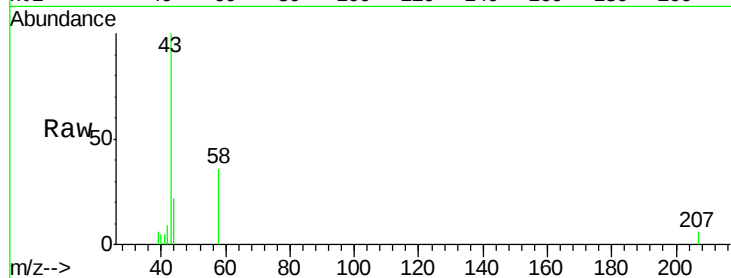
PB129002ZHE#02

Tot Ion: 43 Resp: 9424

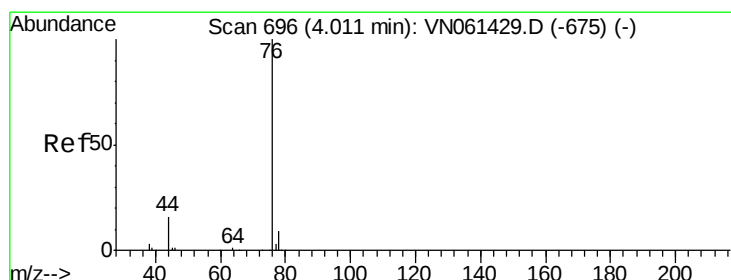
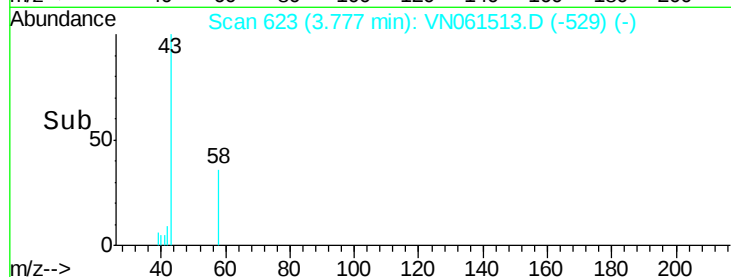
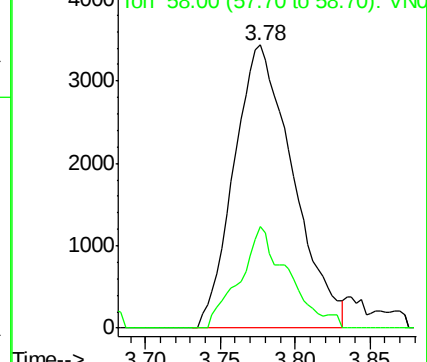
Ion Ratio Lower Upper

43 100

58 35.8 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-589) (-)



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.02 min Scan# 699

Delta R.T. 0.01 min

Lab File: VN061513.D

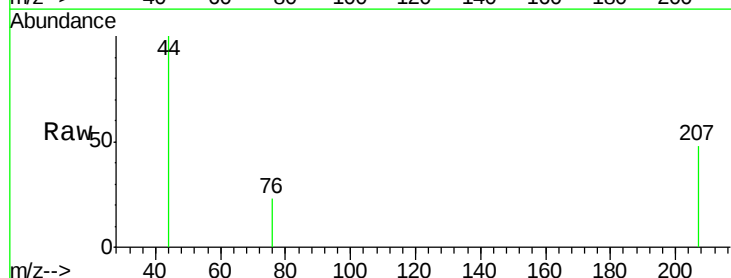
Acq: 20 May 2020 20:10

Tgt Ion: 76 Resp: 62

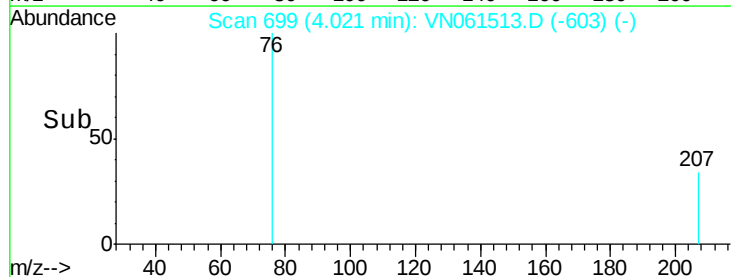
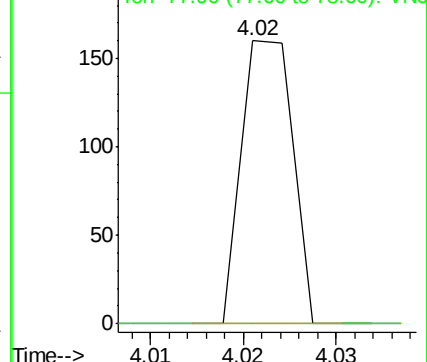
Ion Ratio Lower Upper

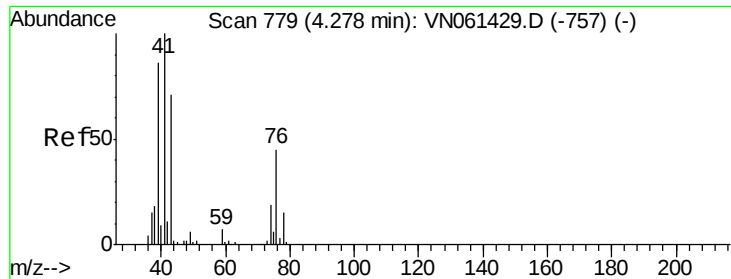
76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN061429.D (-675) (-)

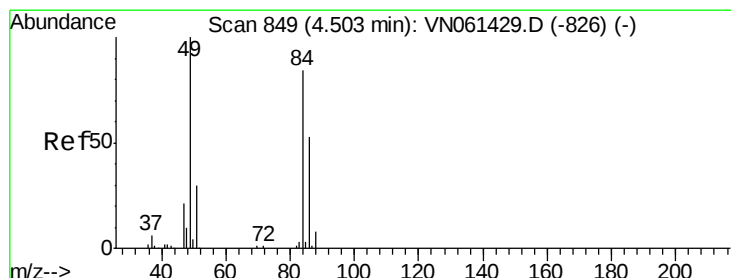
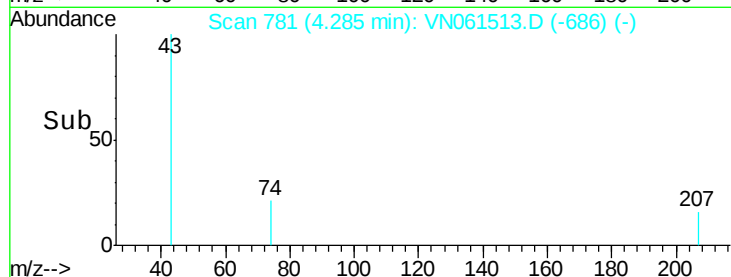
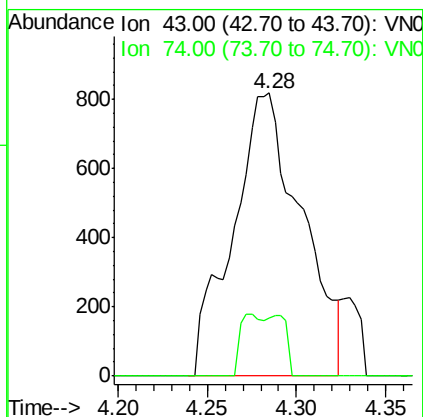
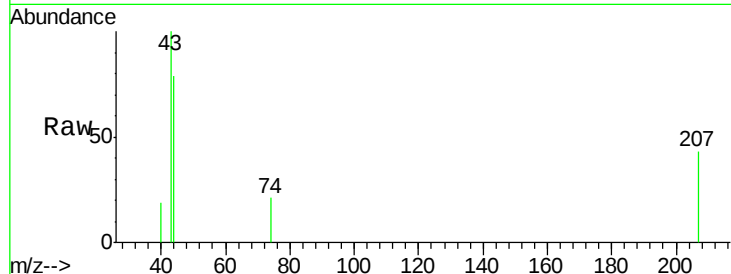




#18
Methvl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

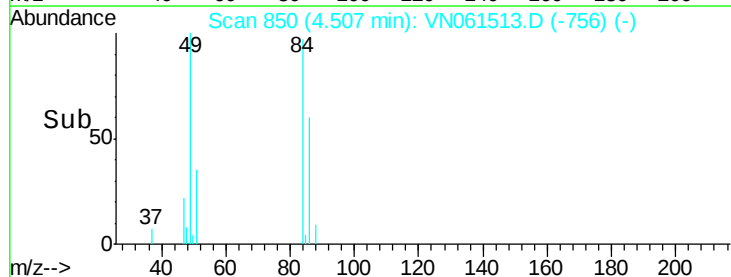
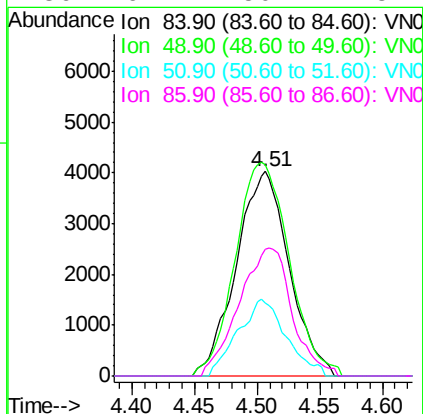
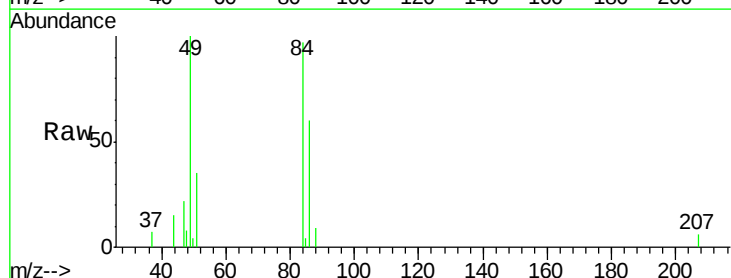
Instrument :
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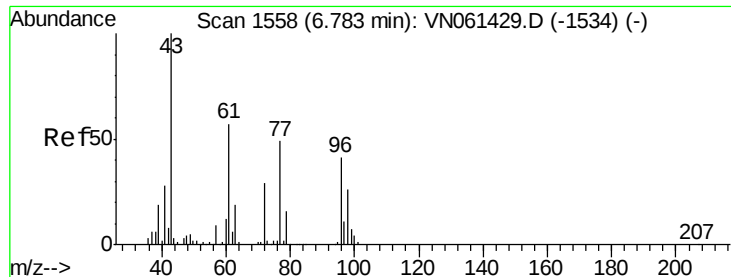
Tot Ion: 43 Resp: 2198
Ion Ratio Lower Upper
43 100
74 7.3 20.8 31.2#



#20
Methylene Chloride
Concen: 3.434 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

Tgt Ion: 84 Resp: 11791
Ion Ratio Lower Upper
84 100
49 103.3 95.3 142.9
51 35.7 29.0 43.6
86 62.1 50.2 75.2

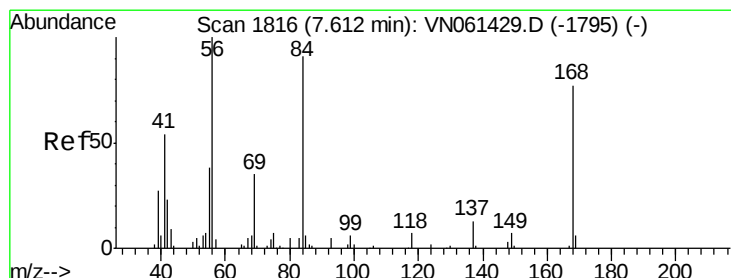
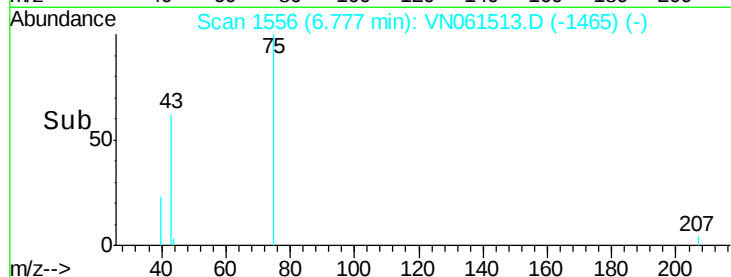
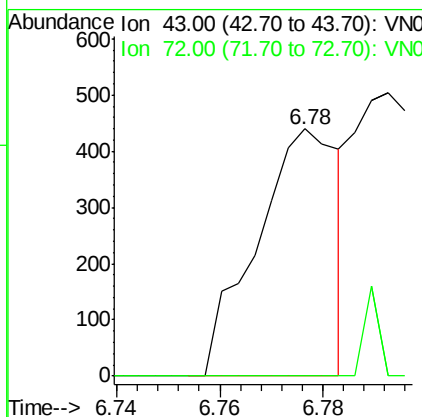
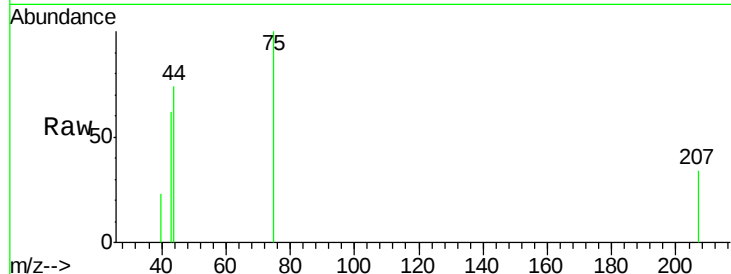




#25
2-Butanone
Concen: 0.254 ug/l
RT: 6.78 min Scan# 1556
Delta R.T. -0.01 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

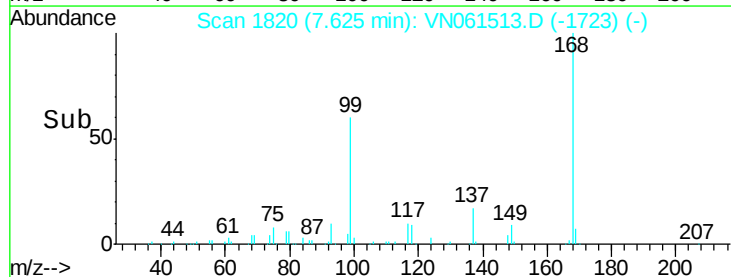
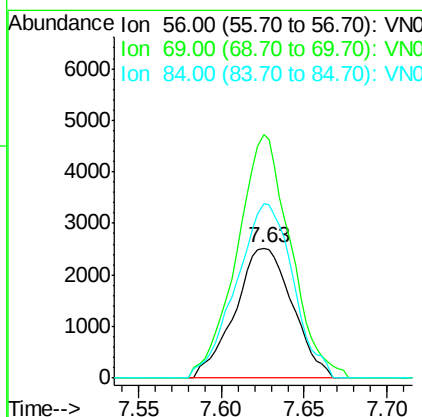
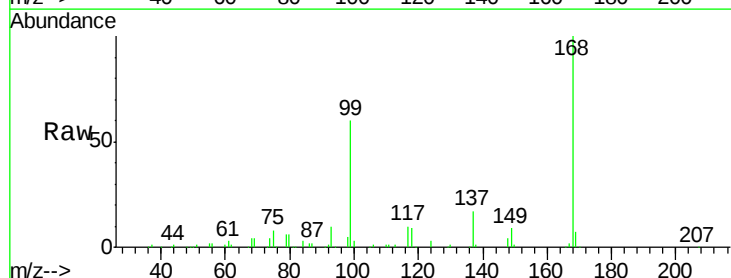
Instrument :
MSVOA_N
ClientSampleId :
PB129002ZHE#02

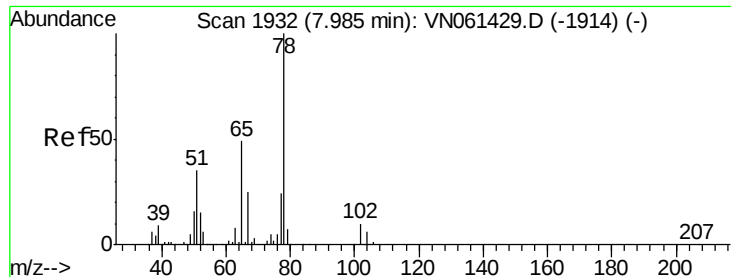
Tot Ion: 43 Resp: 484
Ion Ratio Lower Upper
43 100
72 0.0 23.0 34.6#



#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1820
Delta R.T. 0.01 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

Tgt Ion: 56 Resp: 6054
Ion Ratio Lower Upper
56 100
69 187.0 27.8 41.6#
84 133.9 72.7 109.1#

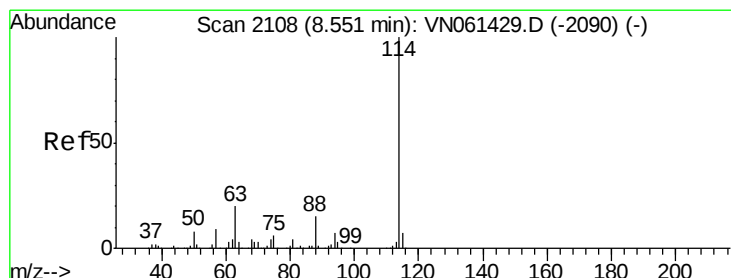
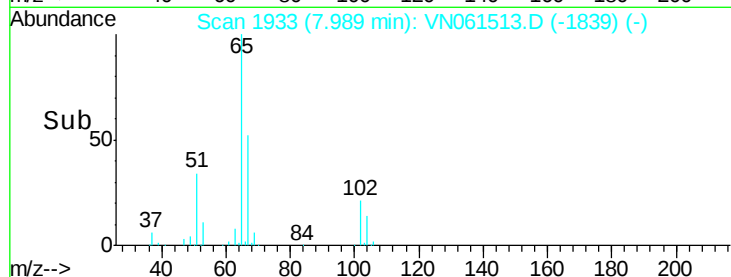
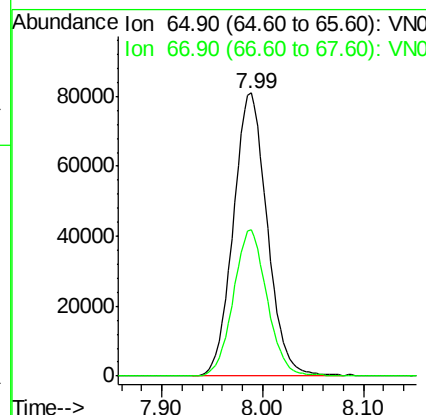
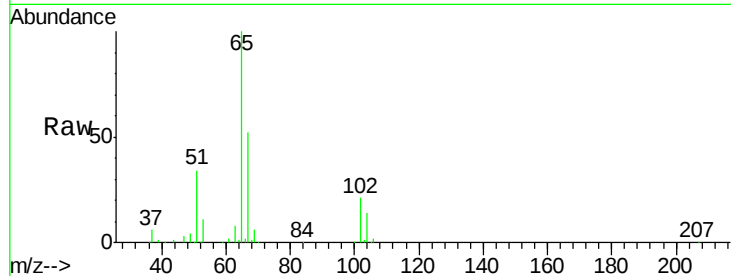




#33
 1,2-Dichloroethane-d4
 Concen: 45.331 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061513.D
 Acq: 20 May 2020 20:10

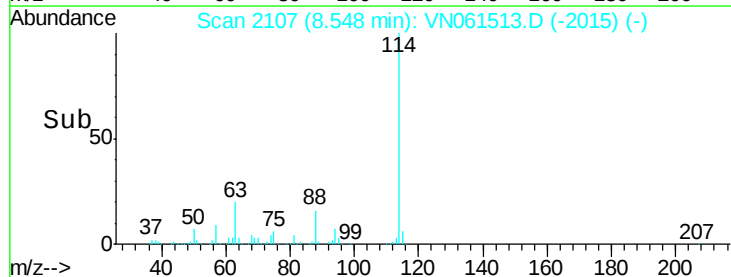
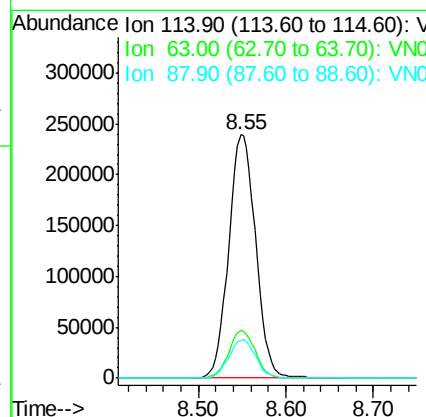
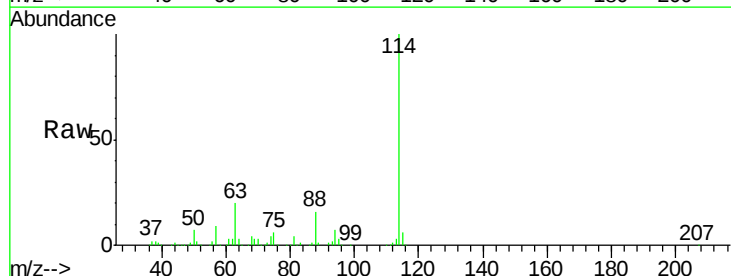
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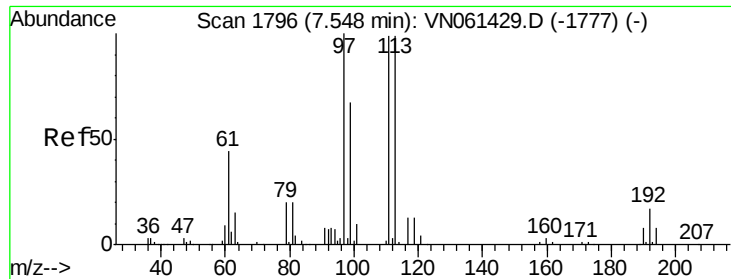
Tot Ion: 65 Resp: 189365
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2107
 Delta R.T. -0.00 min
 Lab File: VN061513.D
 Acq: 20 May 2020 20:10

Tgt Ion: 114 Resp: 512304
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.8
 88 15.6 0.0 30.8

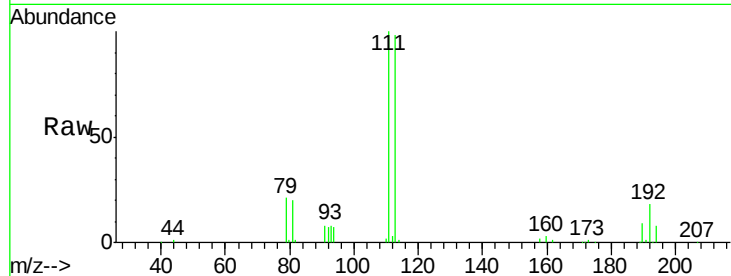




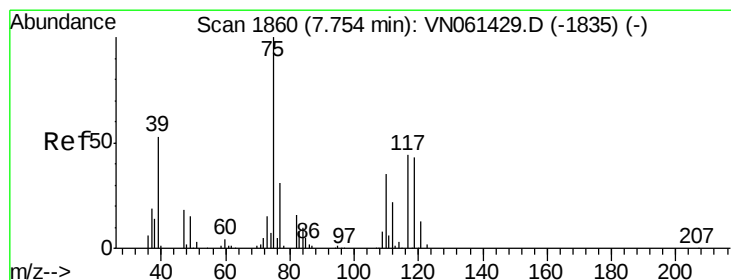
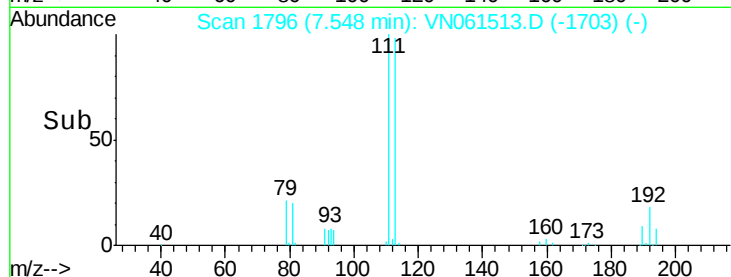
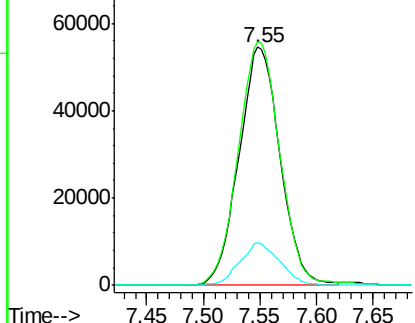
#35
Dibromofluoromethane
Concen: 51.361 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. 0.00 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

Instrument :
MSVOA_N
ClientSampleId :
PB129002ZHE#02

Tot Ion:113 Resp: 137844
Ion Ratio Lower Upper
113 100
111 103.3 80.6 121.0
192 17.4 13.2 19.8

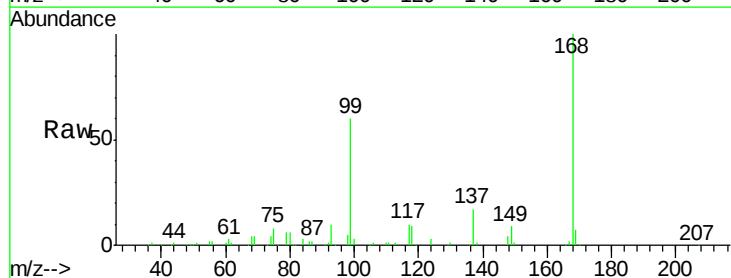


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

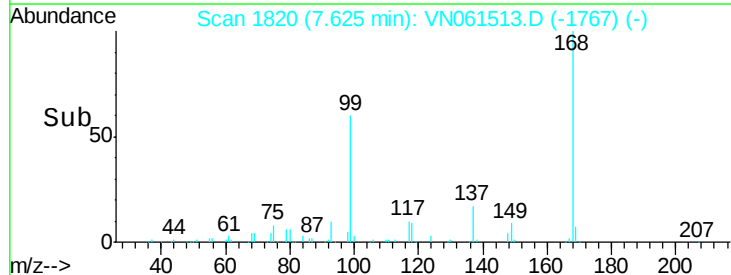
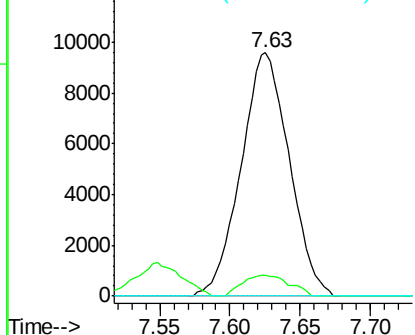


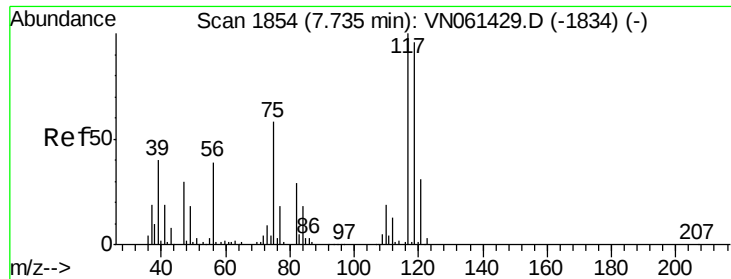
#36
1,1-Dichloropropene
Concen: 4.773 ug/l
RT: 7.63 min Scan# 1820
Delta R.T. -0.13 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

Tgt Ion: 75 Resp: 22864
Ion Ratio Lower Upper
75 100
110 8.3 17.3 51.9#
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.475 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.11 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

PB129002ZHE#02

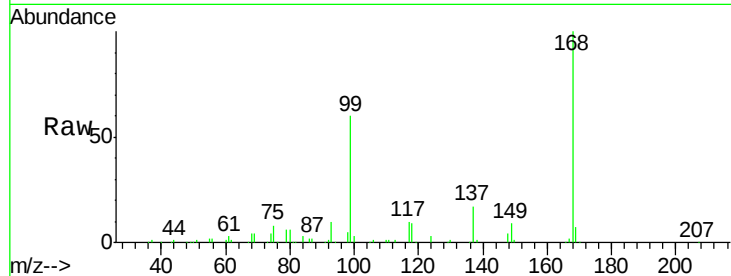
Tot Ion:117 Resp: 28561

Ion Ratio Lower Upper

117 100

119 4.5 77.0 115.6#

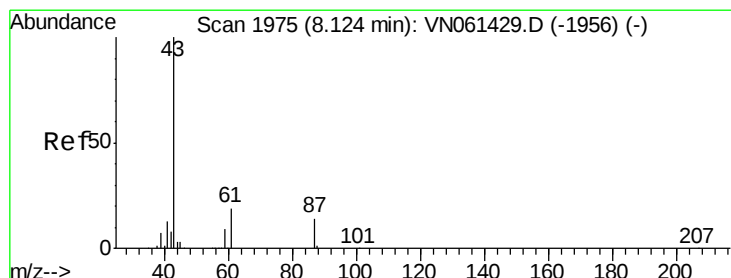
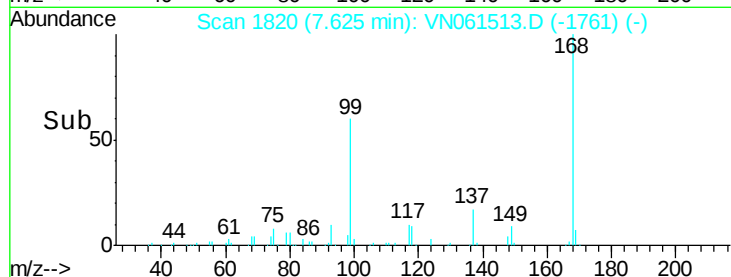
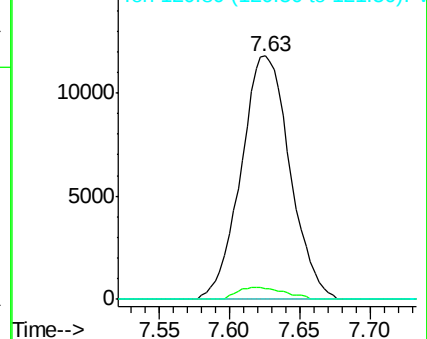
121 0.0 24.7 37.1#



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



#43

Isopropyl Acetate

Concen: 10.038 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

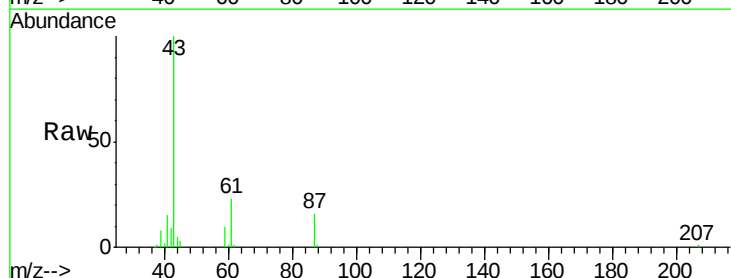
Tgt Ion: 43 Resp: 76059

Ion Ratio Lower Upper

43 100

61 21.7 23.0 34.4#

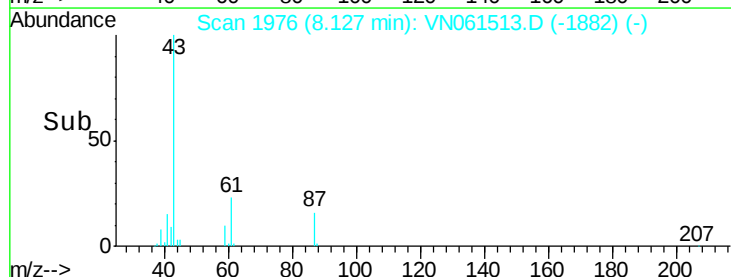
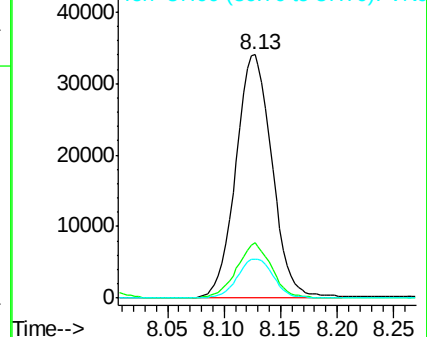
87 15.8 11.6 17.4

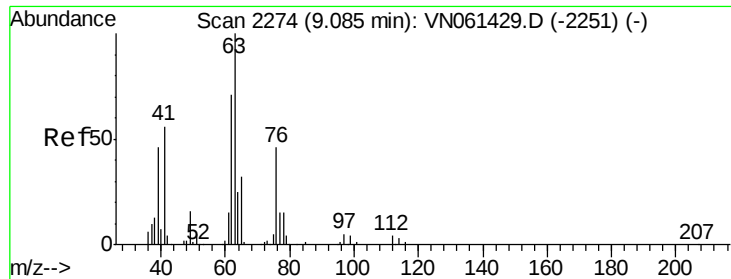


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

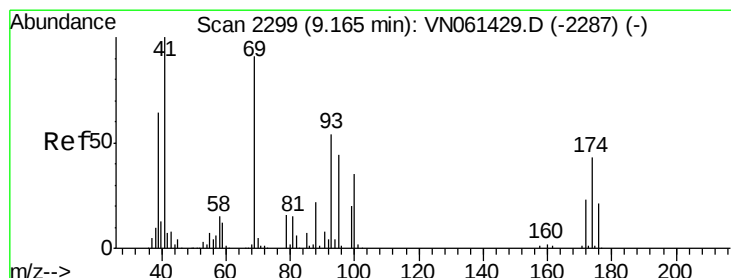
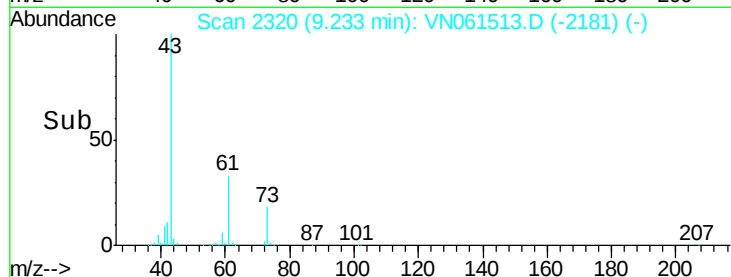
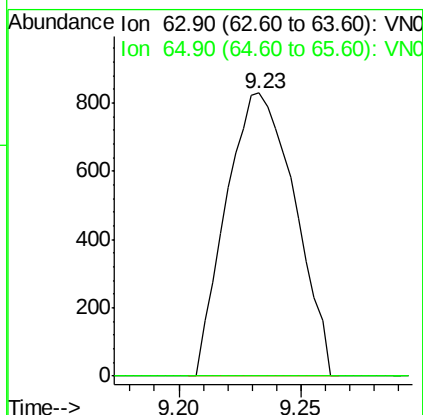
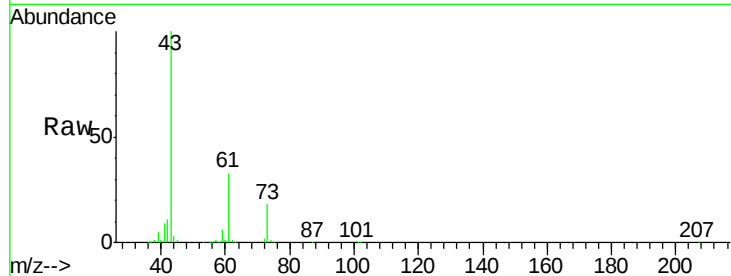




#45
 1,2-Dichloropropane
 Concen: 0.447 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061513.D
 Acq: 20 May 2020 20:10

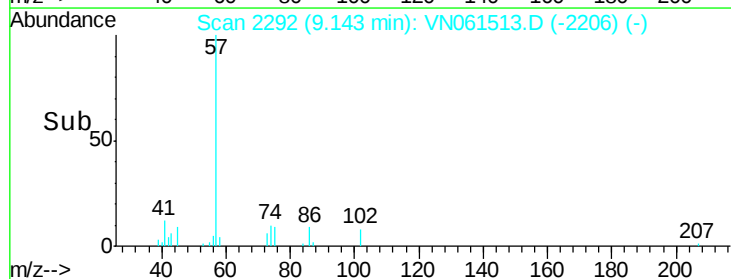
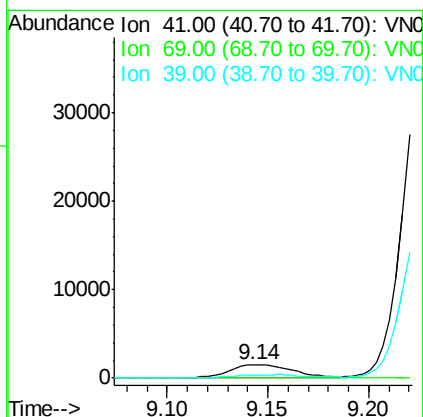
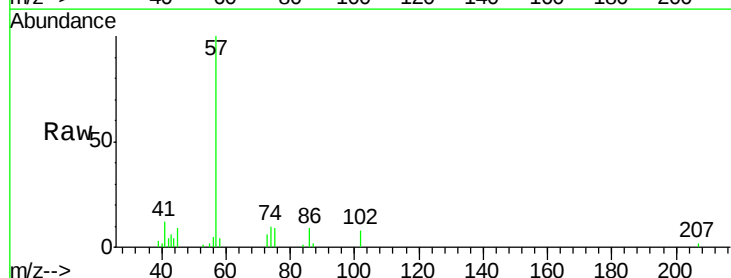
Instrument :
 MSVOA_N
 ClientSampleId :
 PB129002ZHE#02

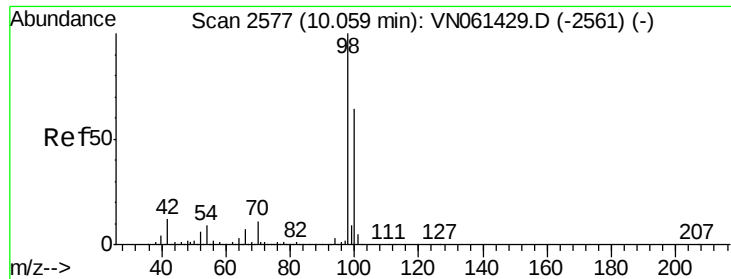
Tot Ion: 63 Resp: 1616
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 0.972 ug/l
 RT: 9.14 min Scan# 2292
 Delta R.T. -0.02 min
 Lab File: VN061513.D
 Acq: 20 May 2020 20:10

Tgt Ion: 41 Resp: 3403
 Ion Ratio Lower Upper
 41 100
 69 0.0 75.3 112.9#
 39 0.0 52.6 79.0#





#50

Toluene-d8

Concen: 51.445 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

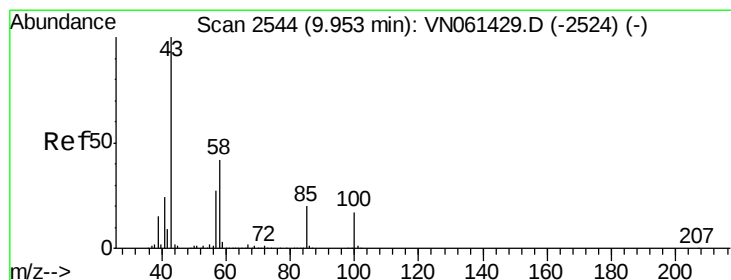
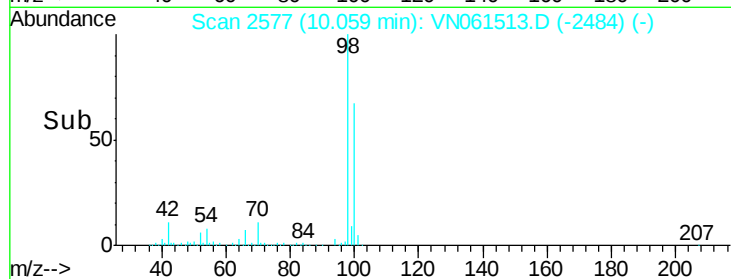
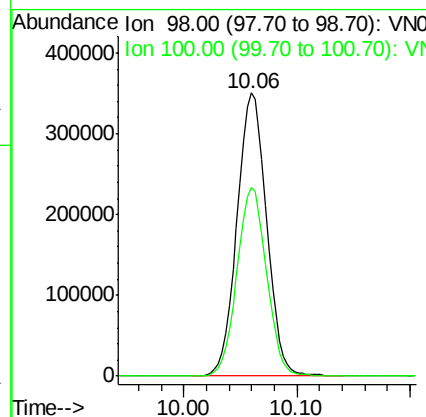
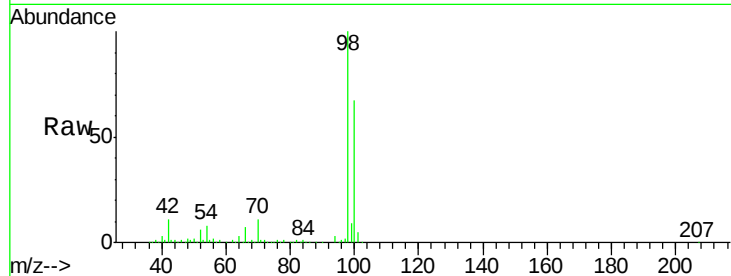
PB129002ZHE#02

Tot Ion: 98 Resp: 640397

Ion Ratio Lower Upper

98 100

100 66.6 51.8 77.8



#51

4-Methyl-2-Pentanone

Concen: 1.270 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061513.D

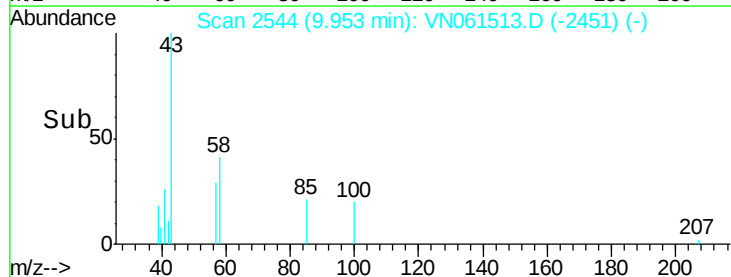
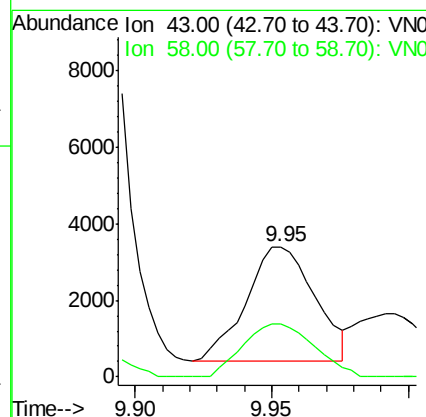
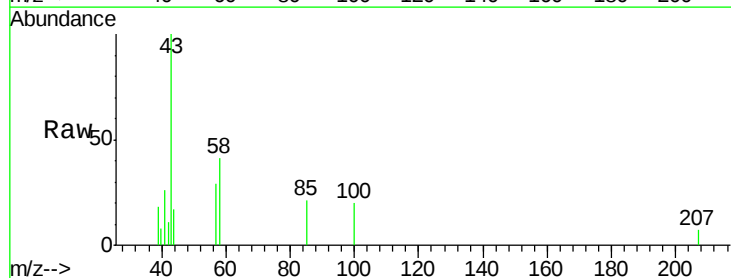
Acq: 20 May 2020 20:10

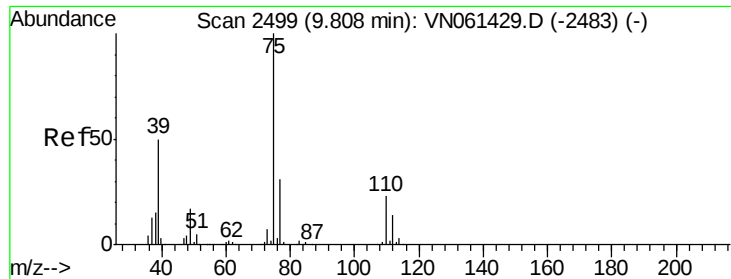
Tgt Ion: 43 Resp: 5242

Ion Ratio Lower Upper

43 100

58 48.0 33.4 50.2





#54

cis-1,3-Dichloropropene

Concen: 6.613 ug/l

RT: 9.88 min Scan# 2520

Delta R.T. 0.07 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

PB129002ZHE#02

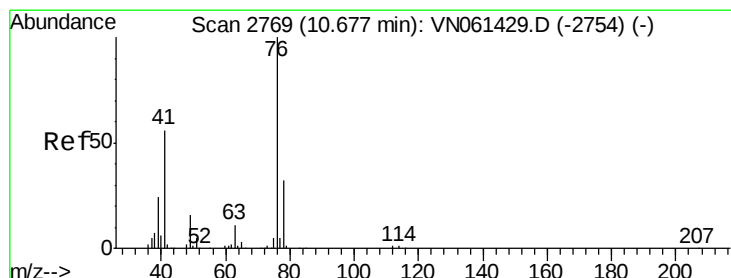
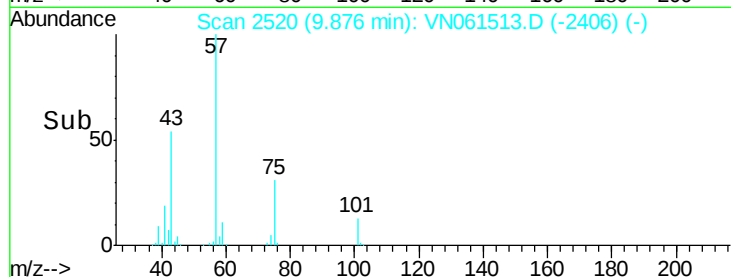
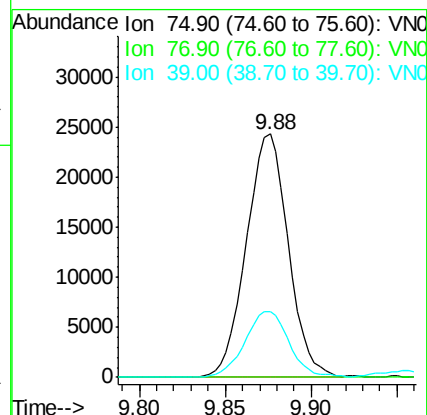
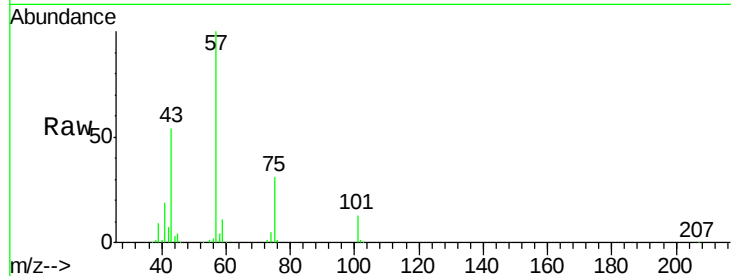
Tot Ion: 75 Resp: 41119

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

39 27.1 39.8 59.6#



#57

1,3-Dichloropropane

Concen: 1.127 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.06 min

Lab File: VN061513.D

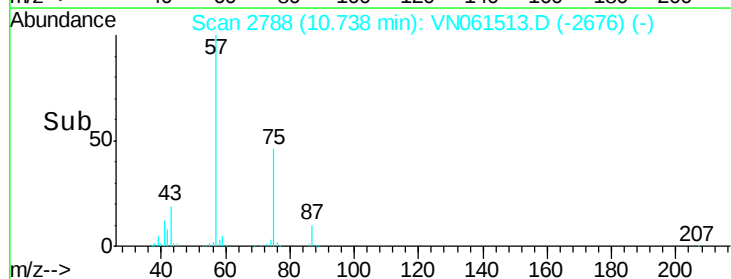
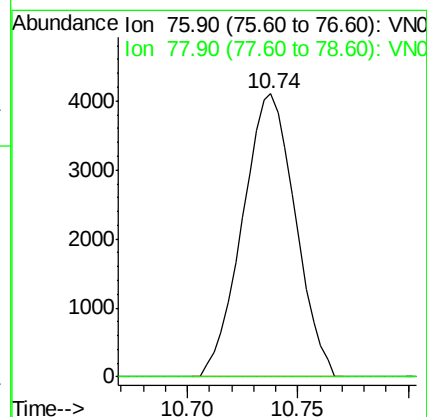
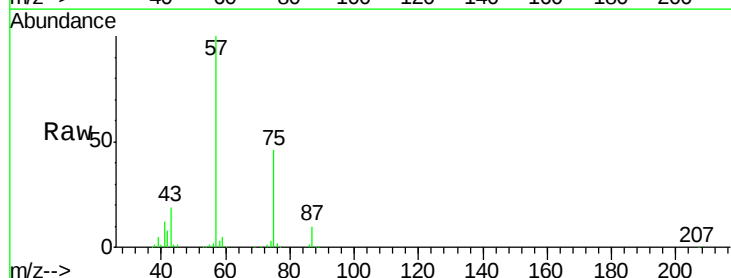
Acq: 20 May 2020 20:10

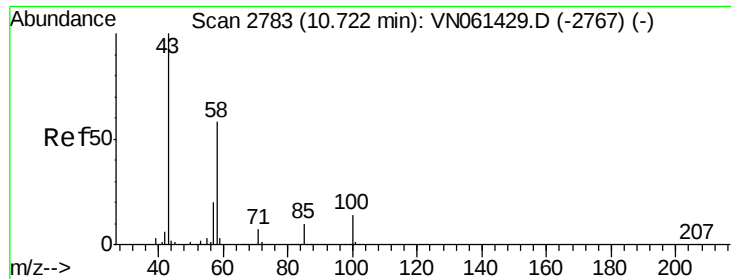
Tgt Ion: 76 Resp: 6824

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 27.411 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

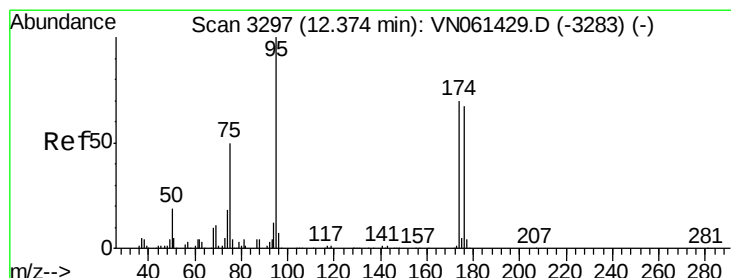
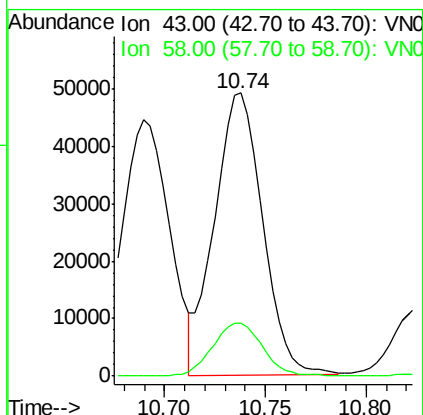
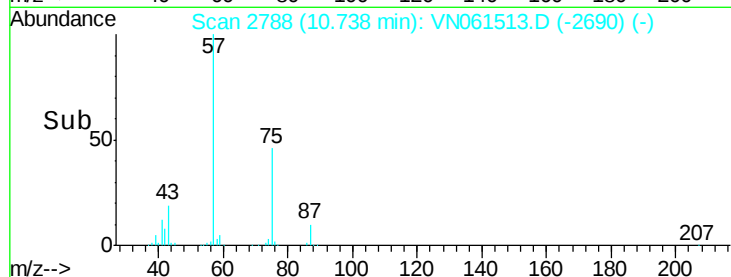
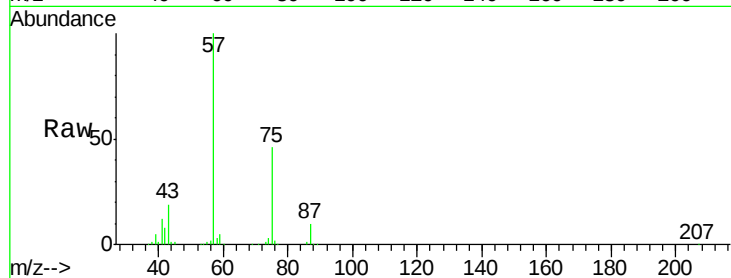
PB129002ZHE#02

Tot Ion: 43 Resp: 81857

Ion Ratio Lower Upper

43 100

58 19.6 29.2 87.6#



#62

4-Bromofluorobenzene

Concen: 53.819 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

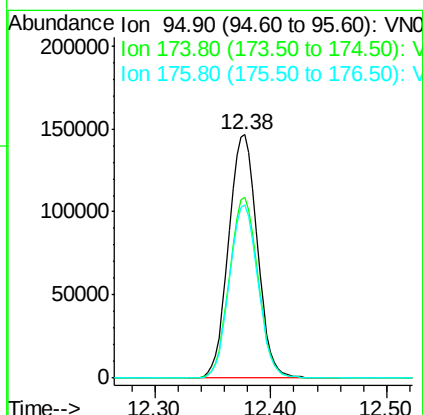
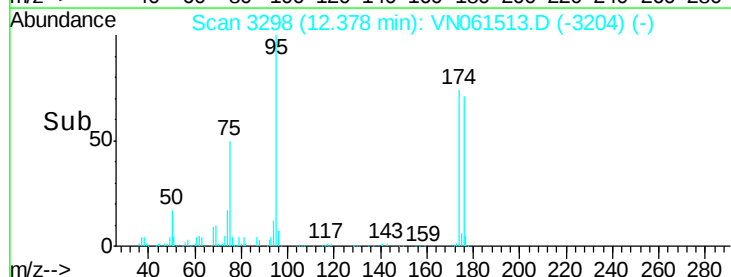
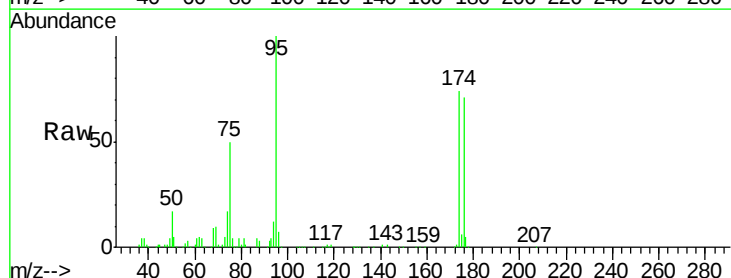
Tgt Ion: 95 Resp: 250297

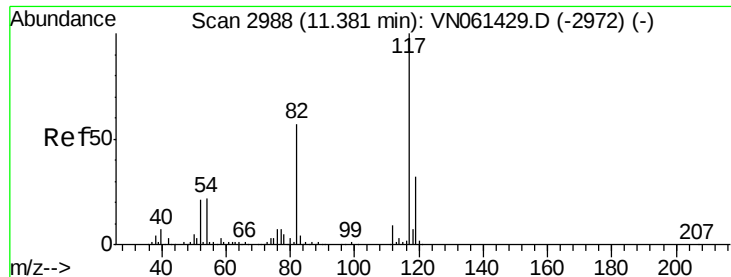
Ion Ratio Lower Upper

95 100

174 74.1 0.0 141.2

176 70.8 0.0 137.6

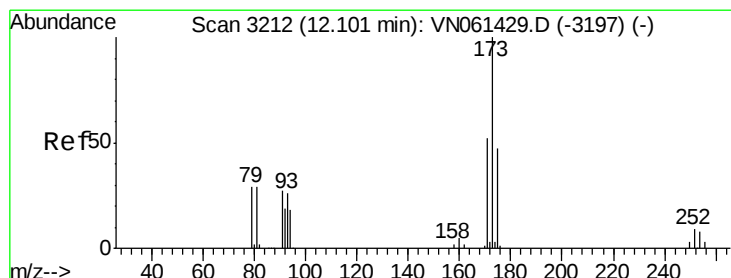
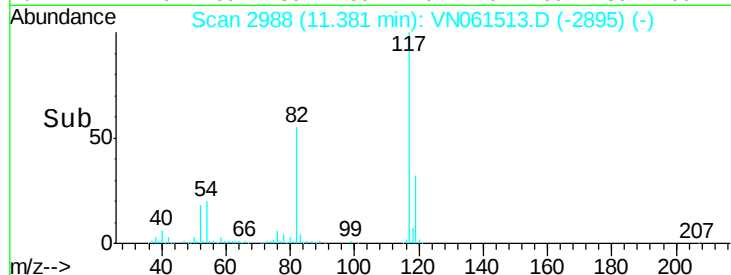
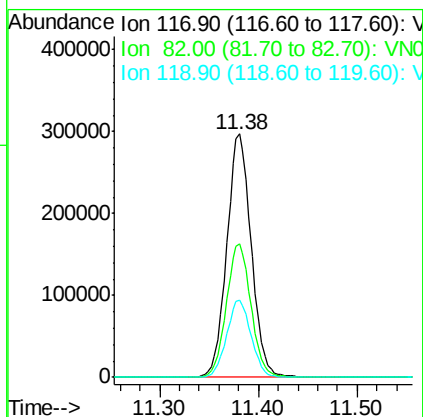
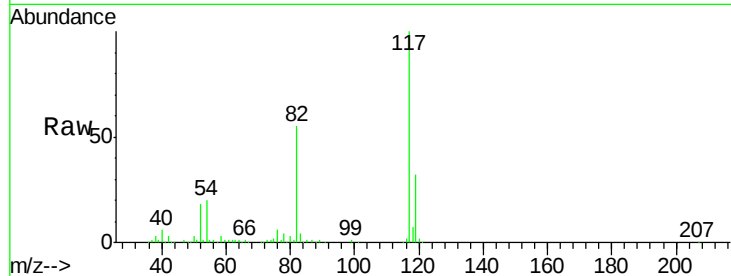




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

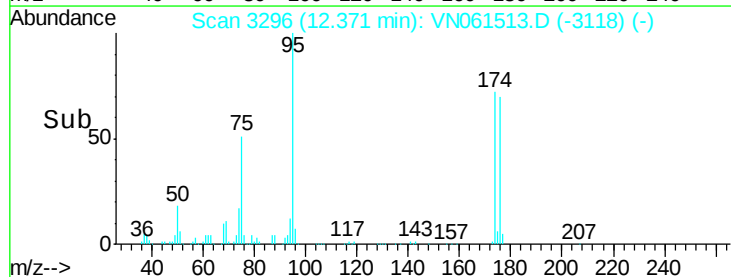
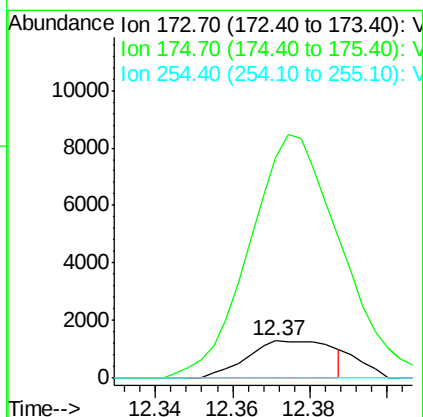
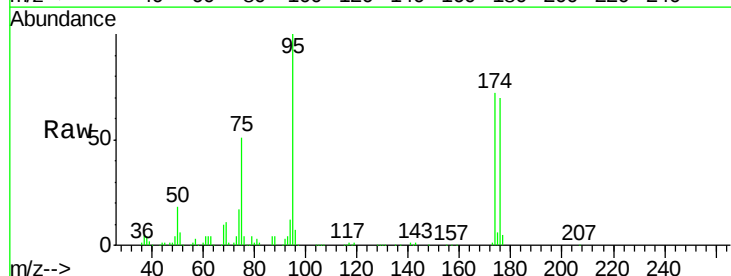
Instrument :
MSVOA_N
ClientSampleId :
PB129002ZHE#02

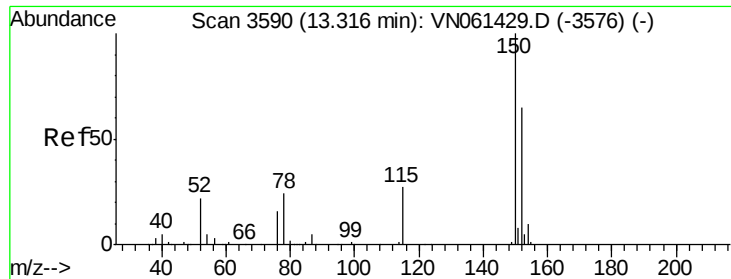
Tot Ion:117 Resp: 516215
Ion Ratio Lower Upper
117 100
82 54.6 45.2 67.8
119 31.5 25.3 37.9



#71
Bromoform
Concen: 2.662 ug/l
RT: 12.37 min Scan# 3296
Delta R.T. 0.27 min
Lab File: VN061513.D
Acq: 20 May 2020 20:10

Tgt Ion:173 Resp: 1962
Ion Ratio Lower Upper
173 100
175 606.8 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

PB129002ZHE#02

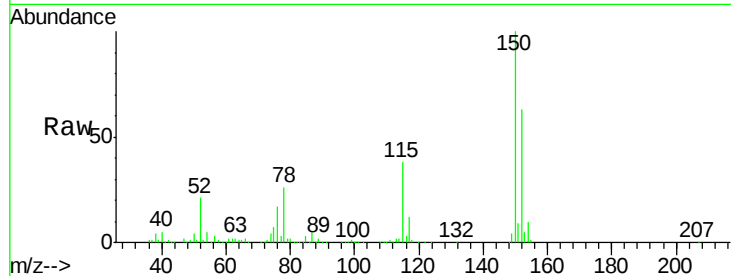
Tot Ion:152 Resp: 224185

Ion Ratio Lower Upper

152 100

115 61.8 30.9 92.5

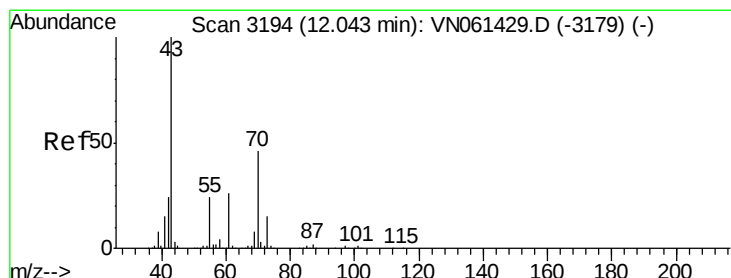
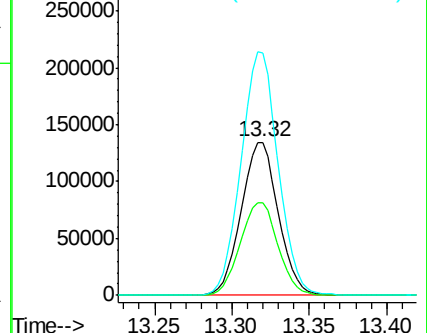
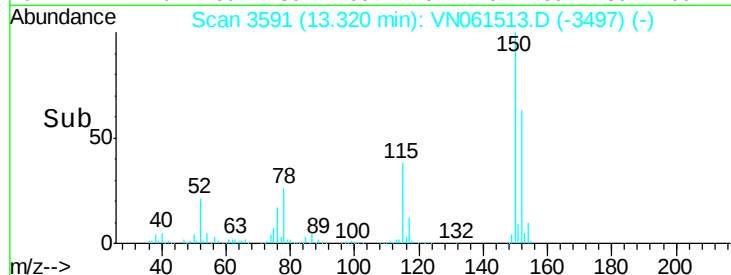
150 159.3 0.0 349.2



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: 0.589 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Tgt Ion: 43 Resp: 3881

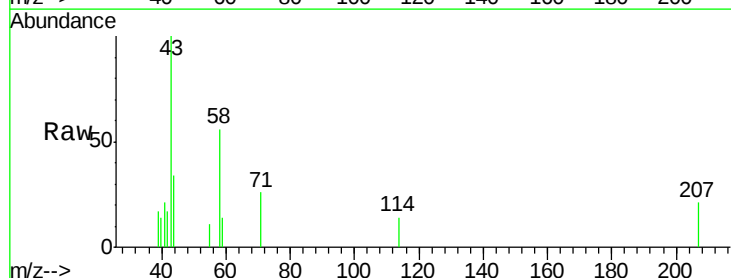
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 2.4 19.5 29.3#

61 0.0 20.8 31.2#

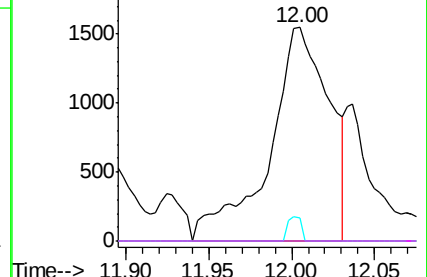
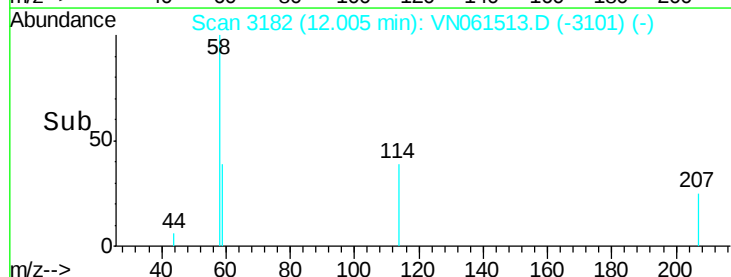


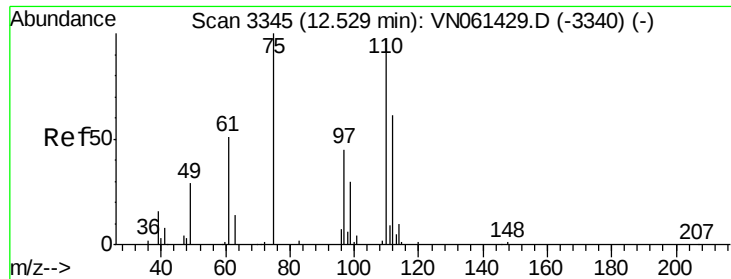
Abundance Ion 43.00 (42.70 to 43.70): V

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: 26.397 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

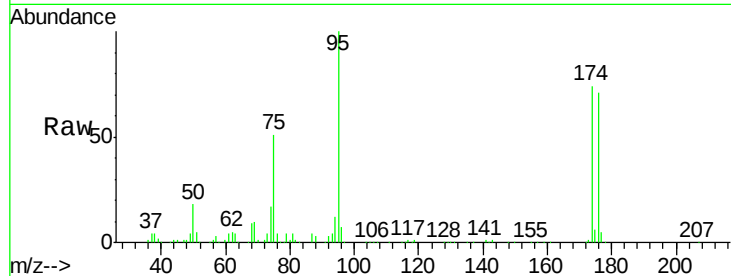
PB129002ZHE#02

Tot Ion: 75 Resp: 126979

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061429.D (-3340) (-)

Ion 77.00 (76.70 to 77.70): VN061429.D (-3340) (-)

12.37

80000

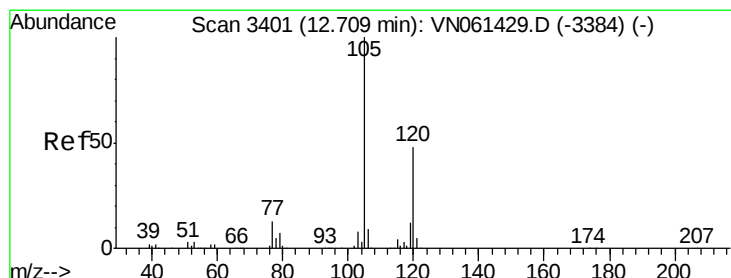
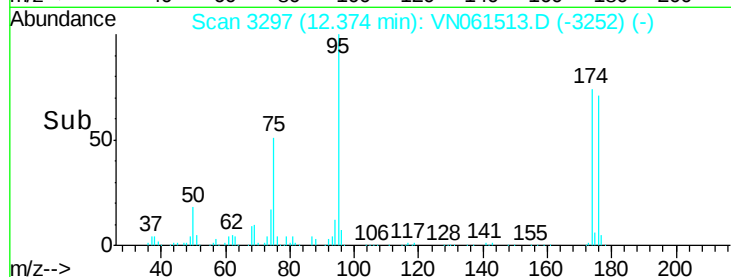
60000

40000

20000

0

Time--> 12.30 12.40



#80

1,3,5-Trimethylbenzene

Concen: 0.272 ug/l

RT: 12.71 min Scan# 3401

Delta R.T. 0.00 min

Lab File: VN061513.D

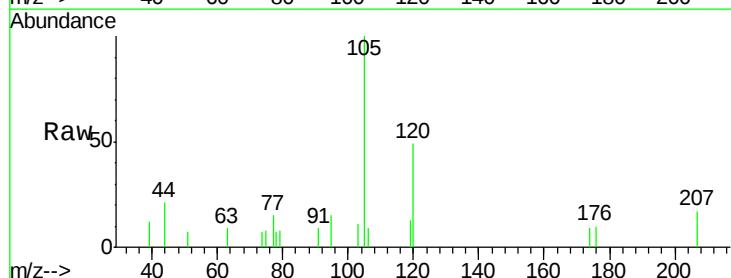
Acq: 20 May 2020 20:10

Tgt Ion: 105 Resp: 4008

Ion Ratio Lower Upper

105 100

120 45.1 24.1 72.4



Abundance Ion 105.00 (104.70 to 105.70): VN061429.D (-3384) (-)

Ion 120.00 (119.70 to 120.70): VN061429.D (-3384) (-)

12.71

2500

2000

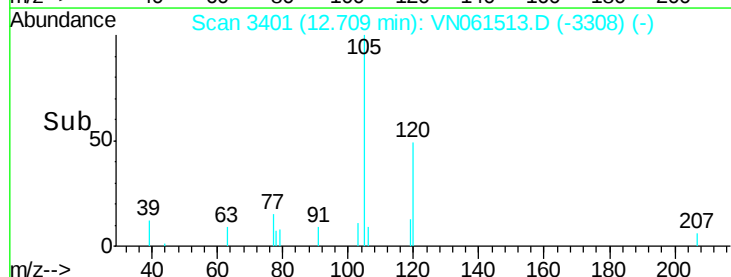
1500

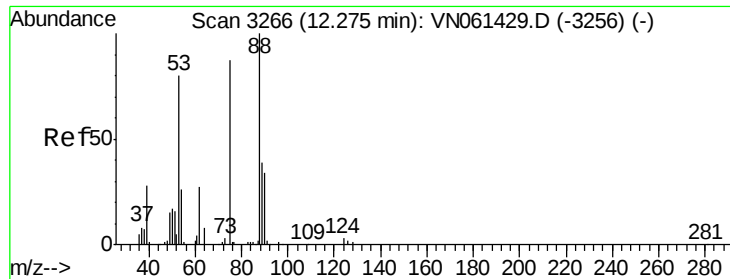
1000

500

0

Time--> 12.65 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 70.024 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.10 min

Lab File: VN061513.D

Acq: 20 May 2020 20:10

Instrument :

MSVOA_N

ClientSampleId :

PB129002ZHE#02

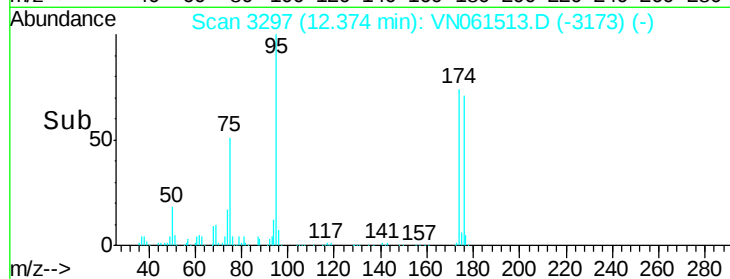
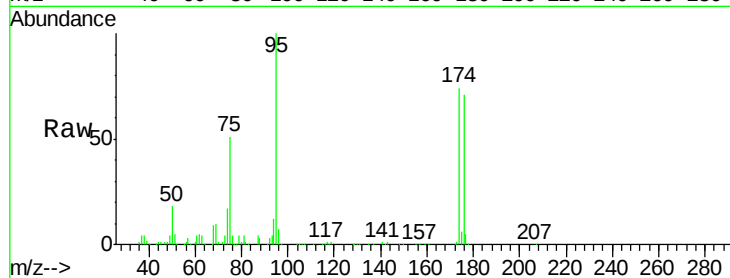
Tot Ion: 75 Resp: 126979

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

