

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN052120\
 Data File : VN061531.D
 Acq On : 21 May 2020 15:27
 Operator : JC/MD
 Sample : PB129027ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: May 22 07:16:29 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	297026	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	548613	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	553490	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	241745	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	196705	44.37	ug/l	0.00
Spiked Amount			Recovery	=	88.74%	
35) Dibromofluoromethane	7.55	113	144342	50.22	ug/l	0.00
Spiked Amount			Recovery	=	100.44%	
50) Toluene-d8	10.06	98	673842	50.55	ug/l	0.00
Spiked Amount			Recovery	=	101.10%	
62) 4-Bromofluorobenzene	12.37	95	261807	52.57	ug/l	0.00
Spiked Amount			Recovery	=	105.14%	

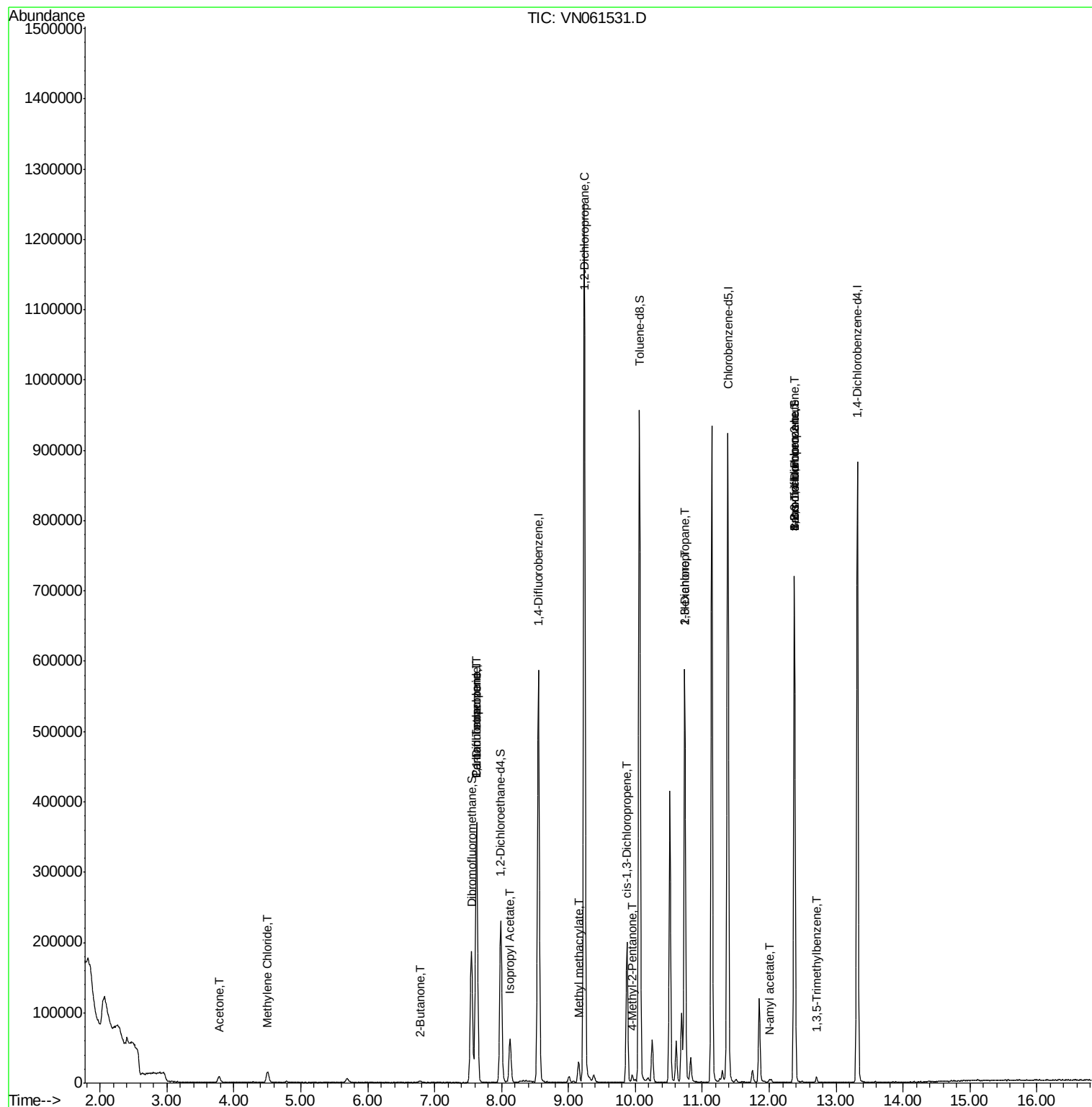
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	387	Below Cal	#	44
16) Acetone	3.78	43	14502	1.410	ug/l	95
17) Carbon Disulfide	4.02	76	65	Below Cal	#	75
18) Methyl Acetate	4.27	43	1100	Below Cal	#	66
20) Methylene Chloride	4.51	84	11604	3.185	ug/l	93
25) 2-Butanone	6.79	43	1752	0.868	ug/l #	68
31) Cyclohexane	7.62	56	6113	Below Cal	#	1
36) 1,1-Dichloropropene	7.63	75	23430	4.567	ug/l #	45
38) Carbon Tetrachloride	7.63	117	30552	6.468	ug/l #	16
43) Isopropyl Acetate	8.13	43	73467	9.054	ug/l #	90
45) 1,2-Dichloropropane	9.23	63	2039	0.527	ug/l #	43
48) Methyl methacrylate	9.15	41	3840	1.024	ug/l #	9
49) 1,4-Dioxane	9.24	88	33	Below Cal	#	1
51) 4-Methyl-2-Pentanone	9.95	43	6743	1.526	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	39702	5.962	ug/l #	59
57) 1,3-Dichloropropane	10.74	76	6375	0.983	ug/l #	42
59) 2-Hexanone	10.74	43	76040	23.778	ug/l #	51
71) Bromoform	12.38	173	1899	2.599	ug/l #	1
74) N-amyl acetate	12.00	43	2456	0.346	ug/l #	44
76) 1,2,3-Trichloropropane	12.37	75	132613	25.565	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4524	0.285	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.37	75	132613	67.819	ug/l #	12

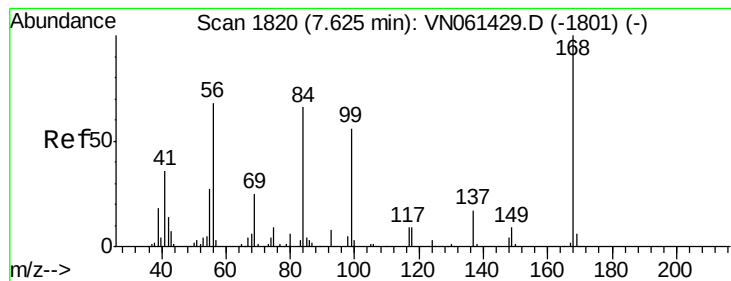
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon May 18 13:09:55 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

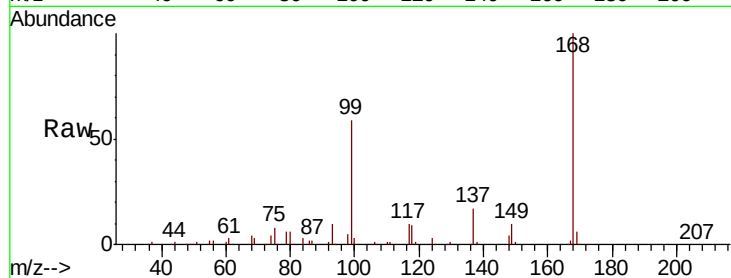
ClientSampled :

Tot Ion:168 Resp: 297026

Ion Ratio Lower Upper

168 100

99 59.3 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.63

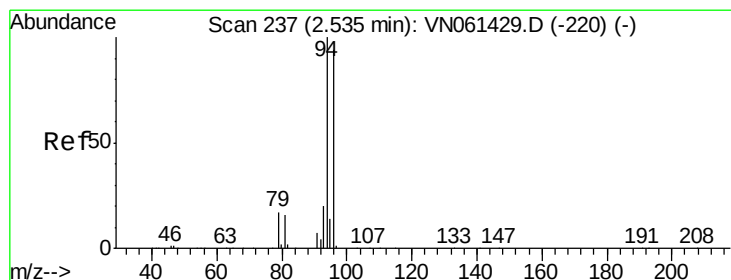
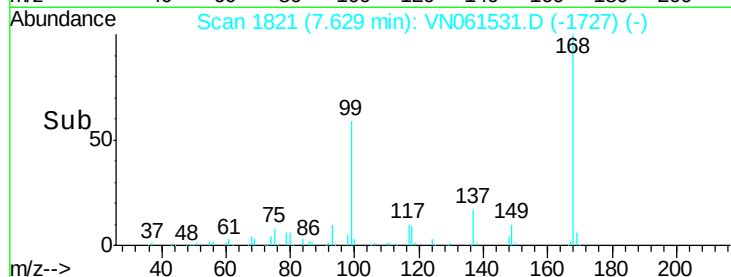
150000

100000

50000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 238

Delta R.T. 0.00 min

Lab File: VN061531.D

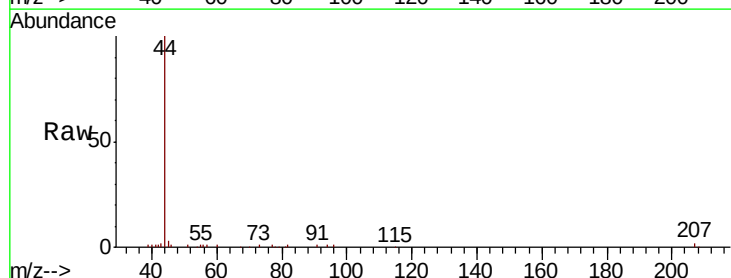
Acq: 21 May 2020 15:27

Tgt Ion: 94 Resp: 387

Ion Ratio Lower Upper

94 100

96 39.6 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.54

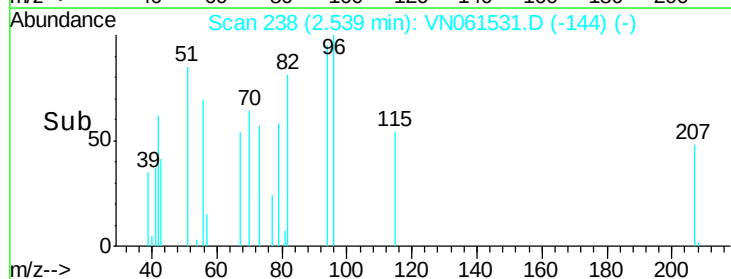
300

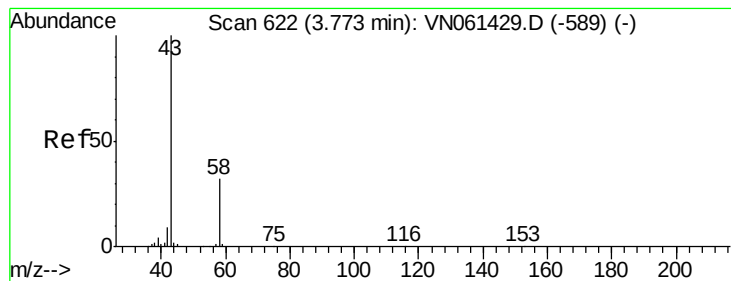
200

100

0

Time--> 2.52 2.54





#16

Acetone

Concen: 1.410 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

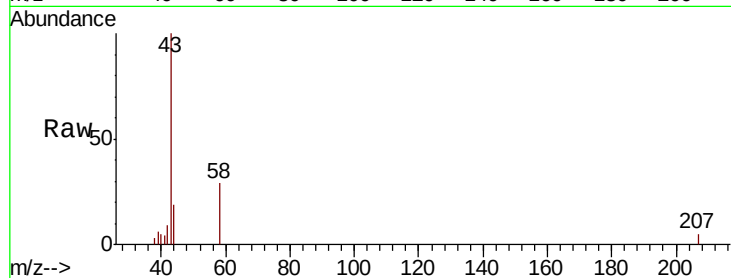
ClientSampleId :

Tot Ion: 43 Resp: 14502

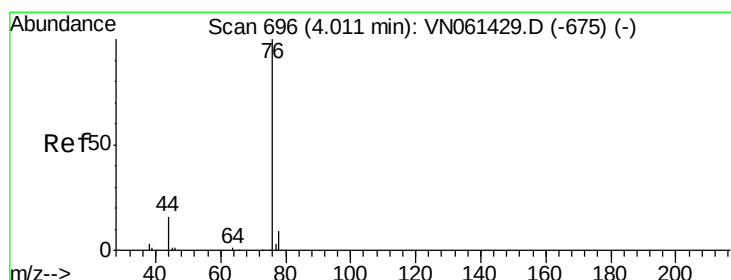
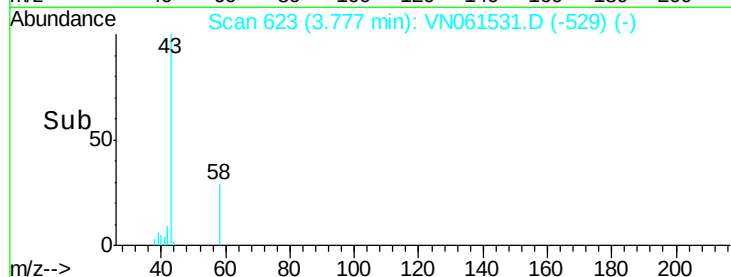
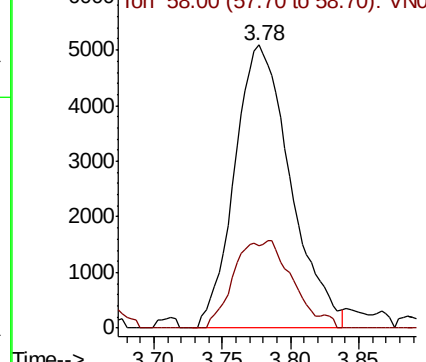
Ion Ratio Lower Upper

43 100

58 29.3 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# 698

Delta R.T. 0.01 min

Lab File: VN061531.D

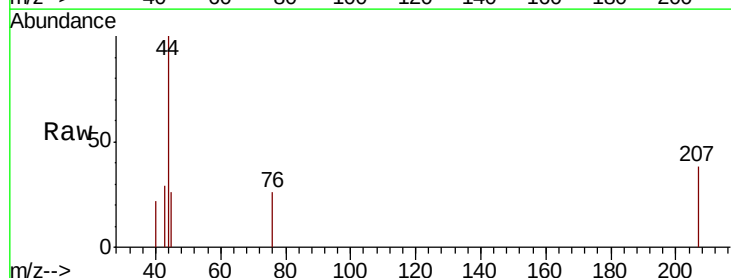
Acq: 21 May 2020 15:27

Tgt Ion: 76 Resp: 65

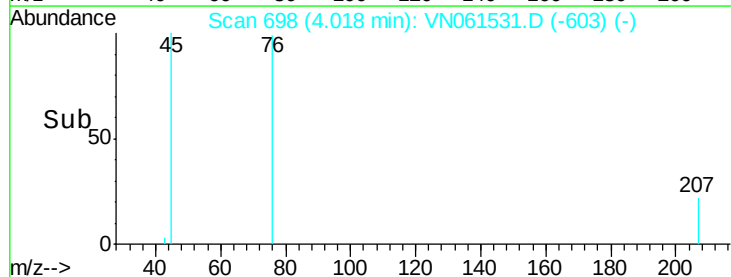
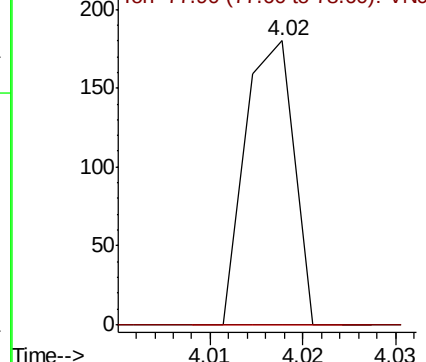
Ion Ratio Lower Upper

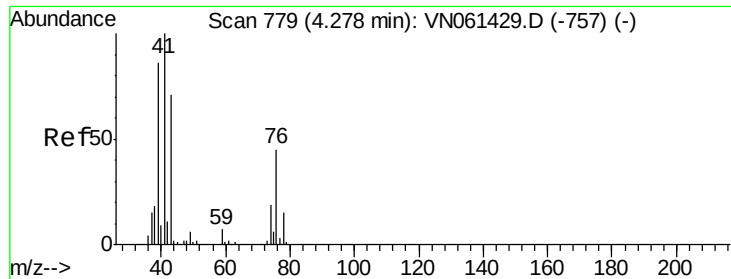
76 100

78 0.0 7.4 11.0#



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

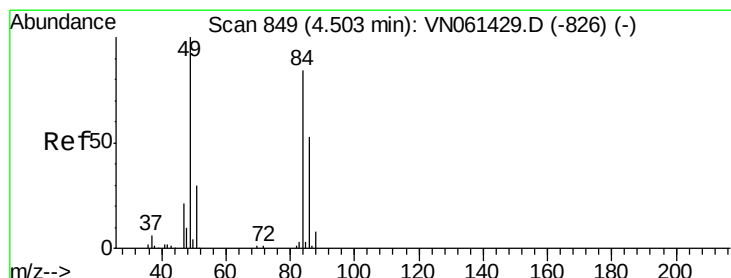
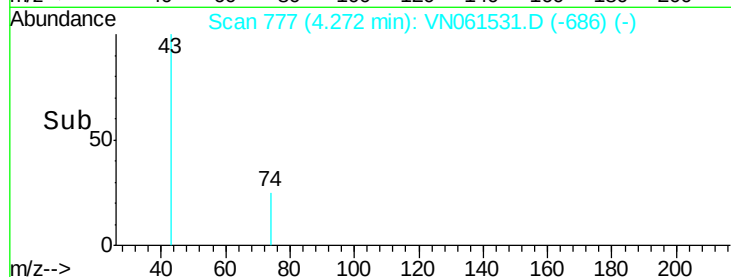
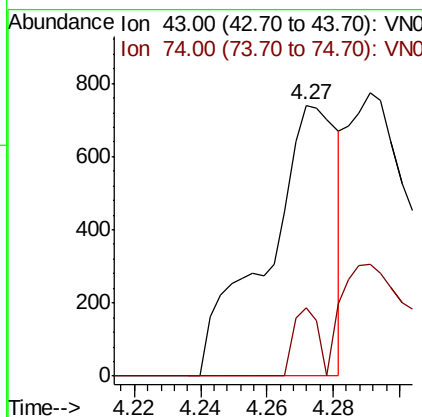
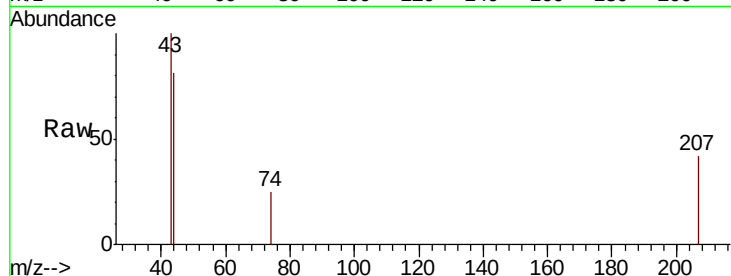




#18
Methvl Acetate
Concen: Below Cal
RT: 4.27 min Scan# 777
Delta R.T. -0.01 min
Lab File: VN061531.D
Acq: 21 May 2020 15:27

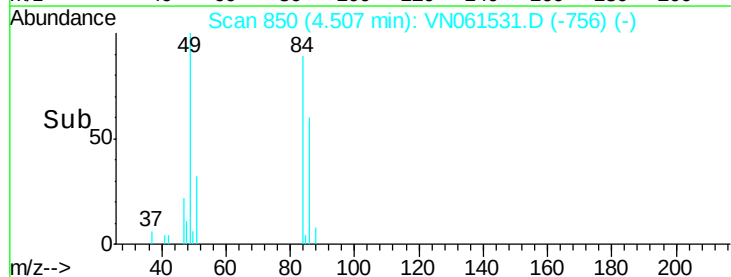
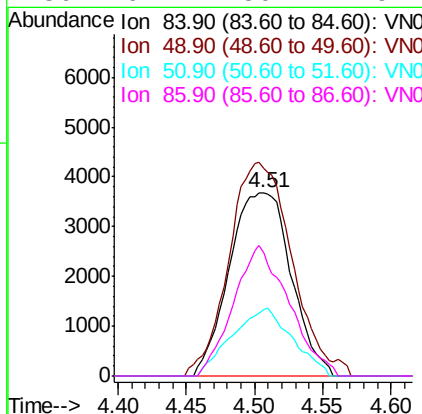
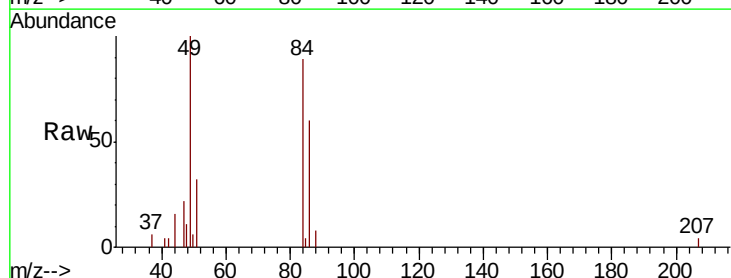
Instrument :
MSVOA_N
ClientSampled :

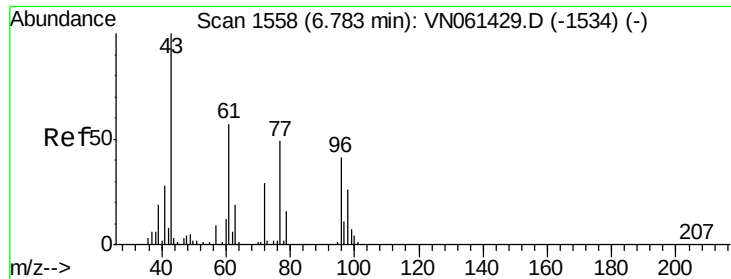
Tot Ion: 43 Resp: 1100
Ion Ratio Lower Upper
43 100
74 8.7 20.8 31.2#



#20
Methylene Chloride
Concen: 3.185 ug/l
RT: 4.51 min Scan# 850
Delta R.T. 0.00 min
Lab File: VN061531.D
Acq: 21 May 2020 15:27

Tgt Ion: 84 Resp: 11604
Ion Ratio Lower Upper
84 100
49 108.6 95.3 142.9
51 36.1 29.0 43.6
86 67.2 50.2 75.2





#25

2-Butanone

Concen: 0.868 ug/l

RT: 6.79 min Scan# 1560

Delta R.T. 0.01 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

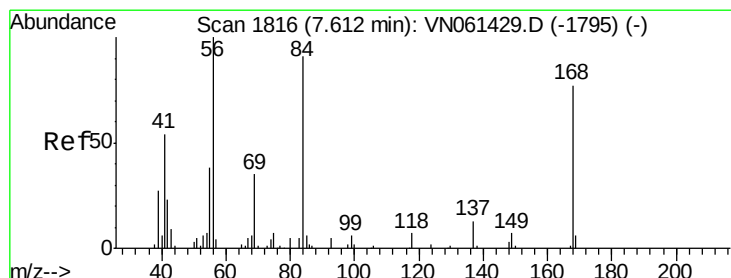
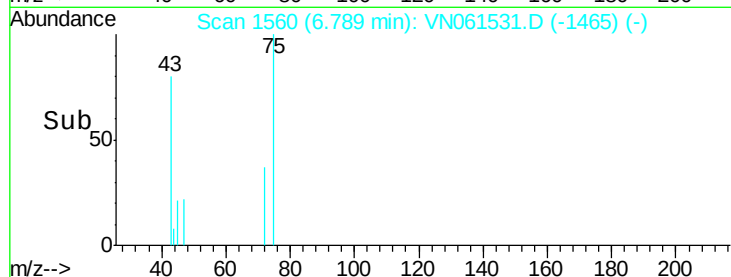
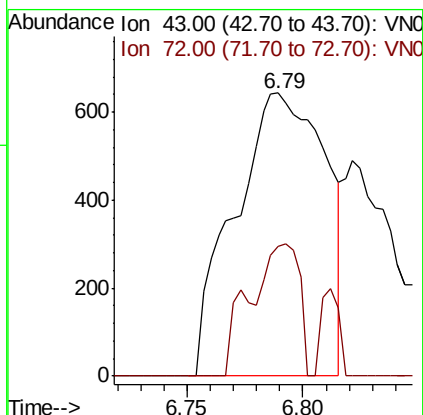
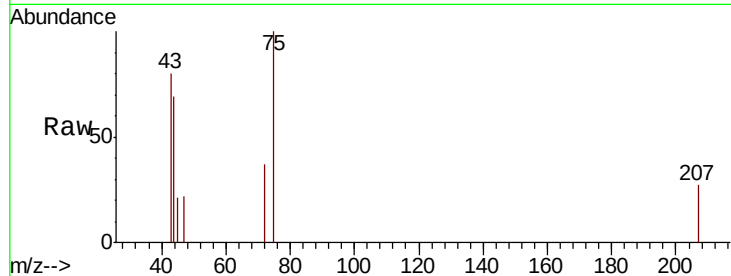
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 1752

Ion Ratio Lower Upper

43 100

72 45.9 23.0 34.6#



#31

Cyclohexane

Concen: Below Cal

RT: 7.62 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

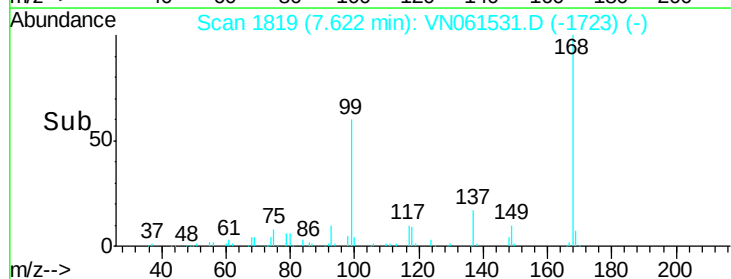
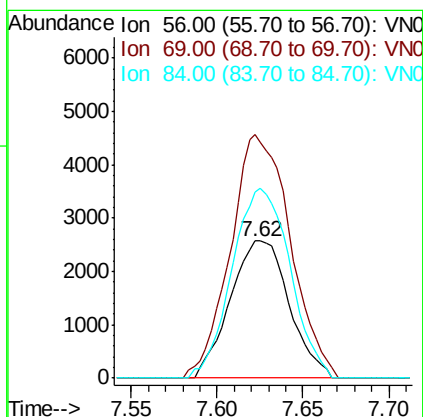
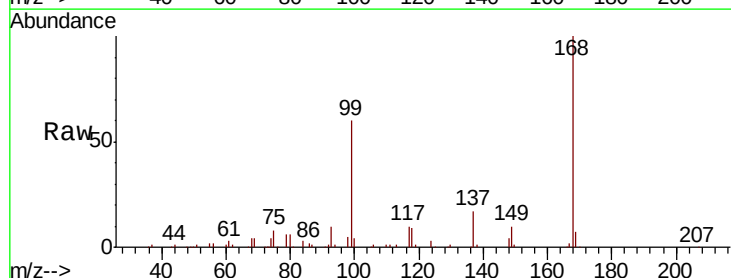
Tgt Ion: 56 Resp: 6113

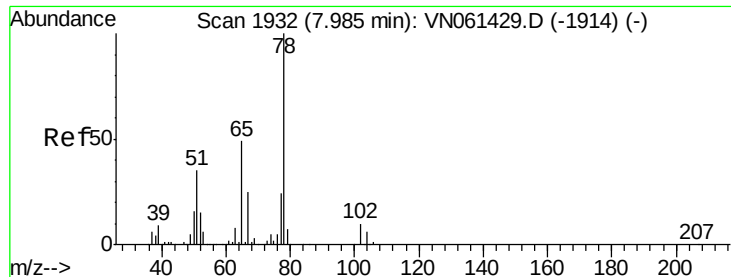
Ion Ratio Lower Upper

56 100

69 177.4 27.8 41.6#

84 135.5 72.7 109.1#

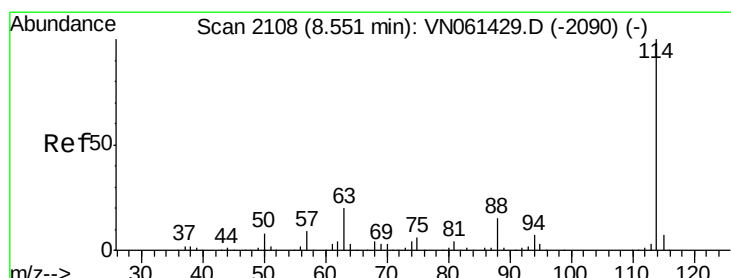
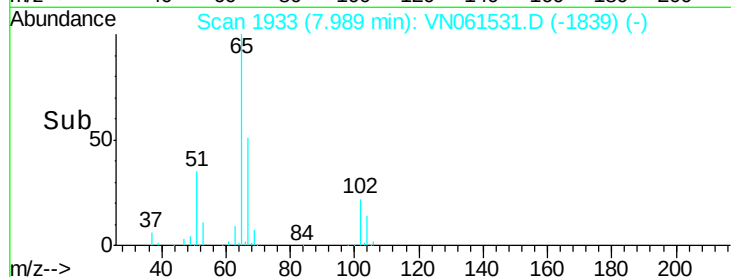
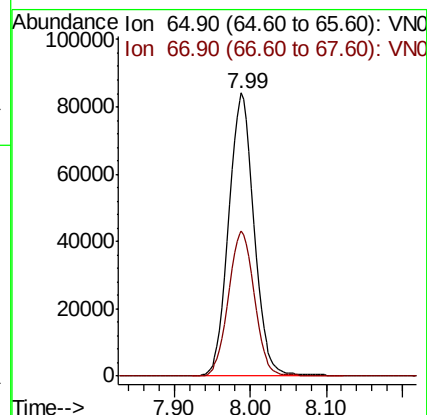
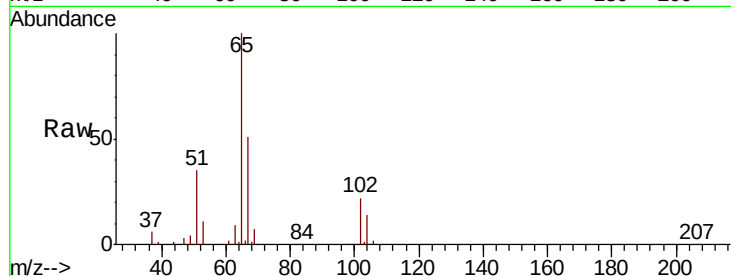




#33
 1,2-Dichloroethane-d4
 Concen: 44.373 ug/l
 RT: 7.99 min Scan# 1933
 Delta R.T. 0.00 min
 Lab File: VN061531.D
 Acq: 21 May 2020 15:27

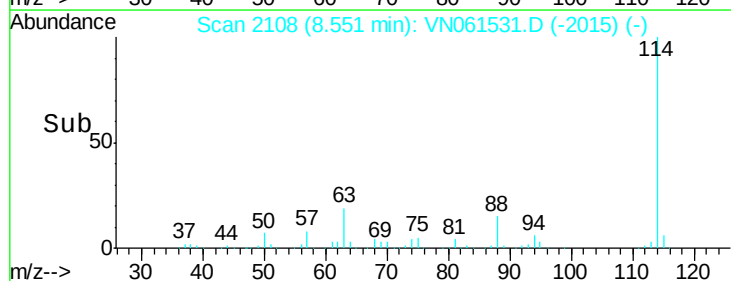
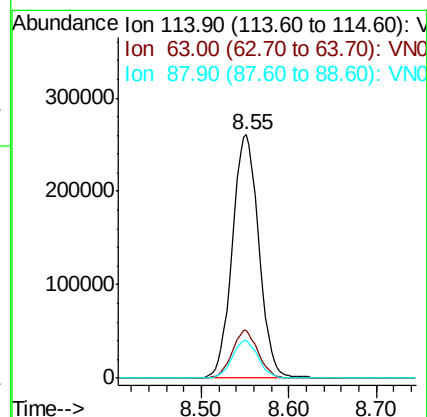
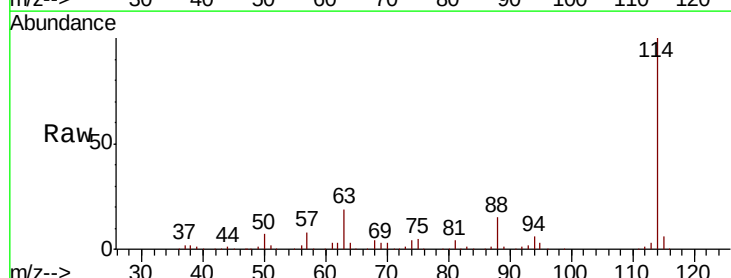
Instrument :
 MSVOA_N
 ClientSampleId :

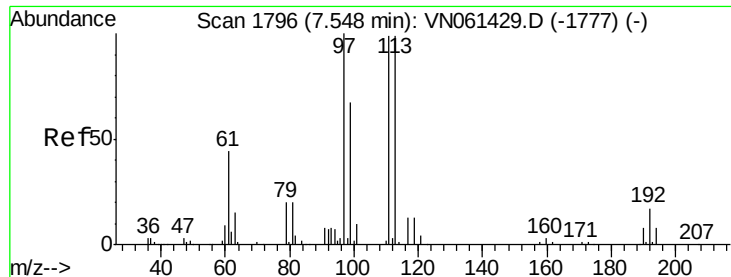
Tot Ion: 65 Resp: 196705
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 101.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. 0.00 min
 Lab File: VN061531.D
 Acq: 21 May 2020 15:27

Tgt Ion: 114 Resp: 548613
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.8
 88 15.2 0.0 30.8





#35

Dibromofluoromethane

Concen: 50.223 ug/l

RT: 7.55 min Scan# 1797

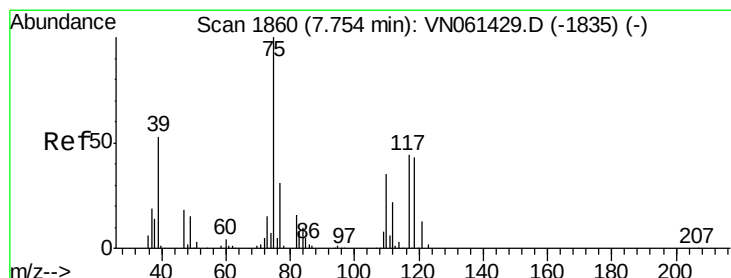
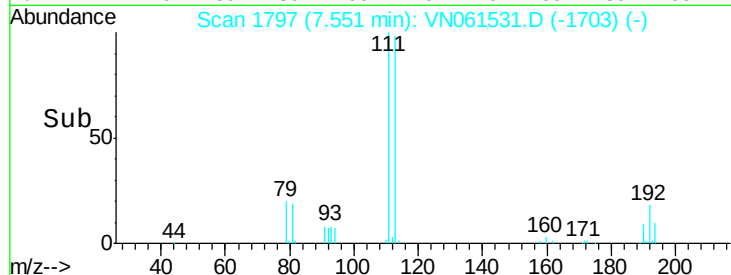
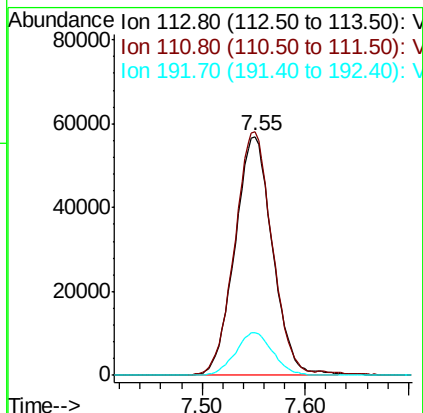
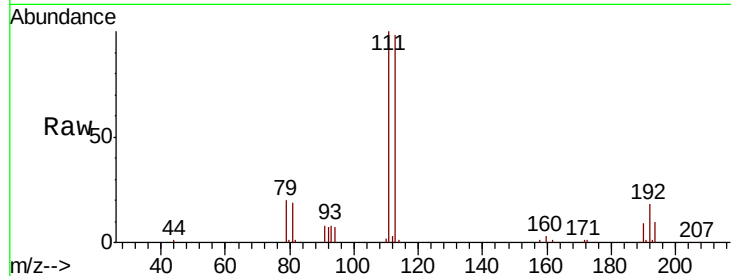
Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	113	Resp:	144342
Ion	Ratio	Lower	Upper
113	100		
111	101.3	80.6	121.0
192	17.8	13.2	19.8



#36

1,1-Dichloropropene

Concen: 4.567 ug/l

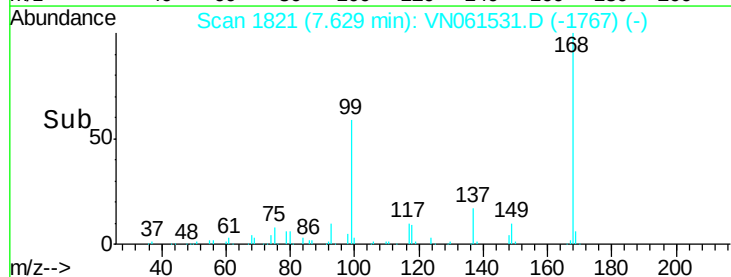
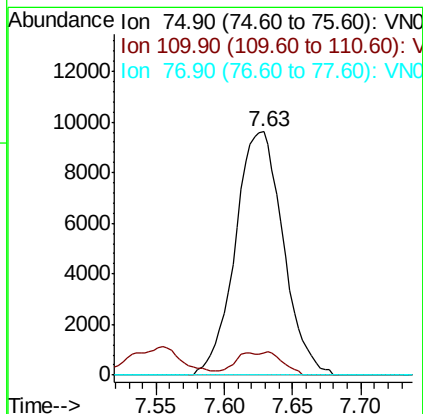
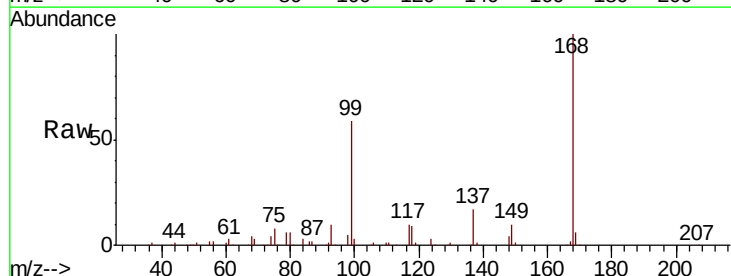
RT: 7.63 min Scan# 1821

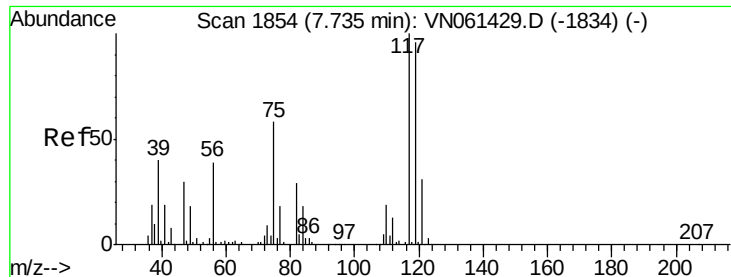
Delta R.T. -0.13 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Tgt Ion:	75	Resp:	23430
Ion	Ratio	Lower	Upper
75	100		
110	3.6	17.3	51.9#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.468 ug/l

RT: 7.63 min Scan# 1821

Delta R.T. -0.11 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

ClientSampled :

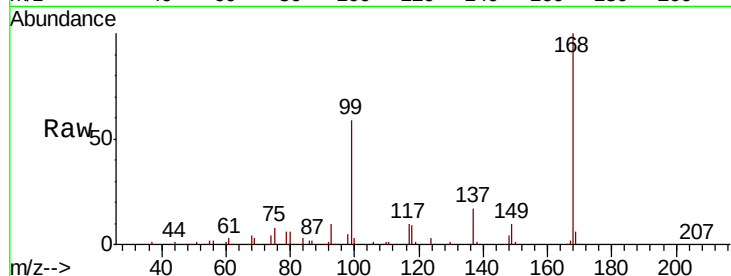
Tot Ion:117 Resp: 30552

Ion Ratio Lower Upper

117 100

119 5.1 77.0 115.6#

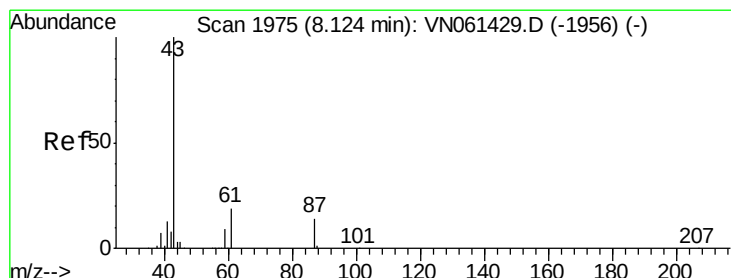
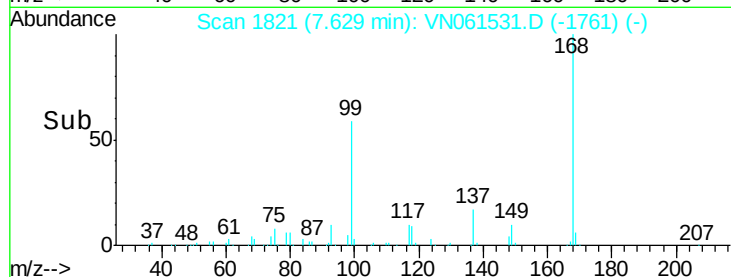
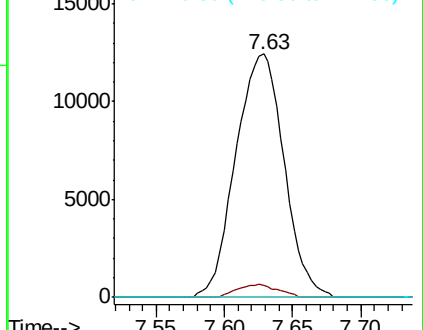
121 0.0 24.7 37.1#



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: 9.054 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

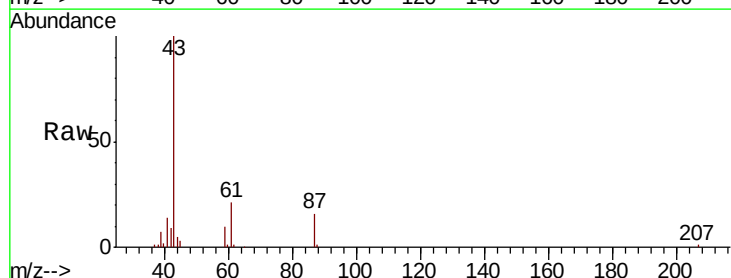
Tgt Ion: 43 Resp: 73467

Ion Ratio Lower Upper

43 100

61 21.4 23.0 34.4#

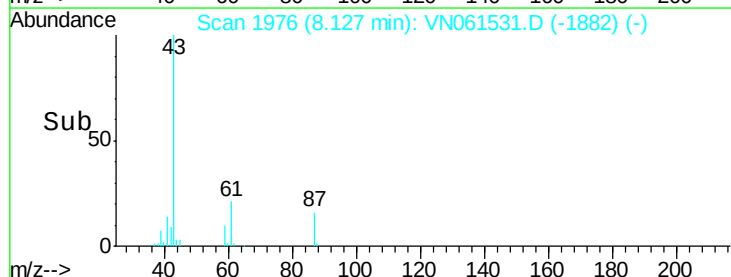
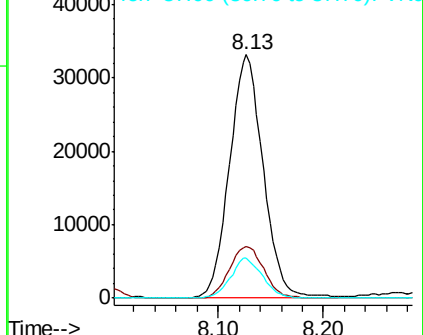
87 15.5 11.6 17.4

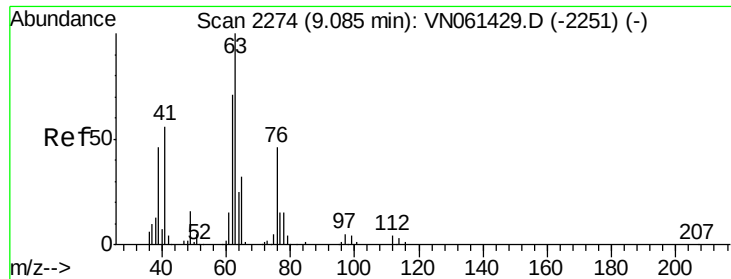


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

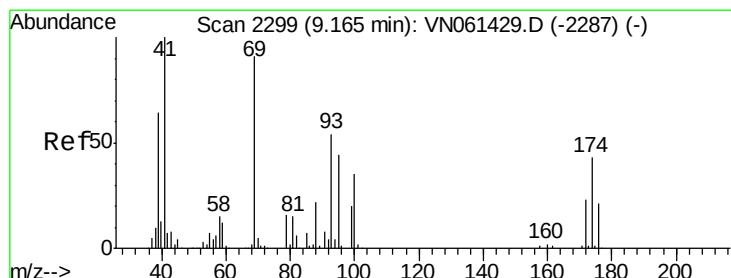
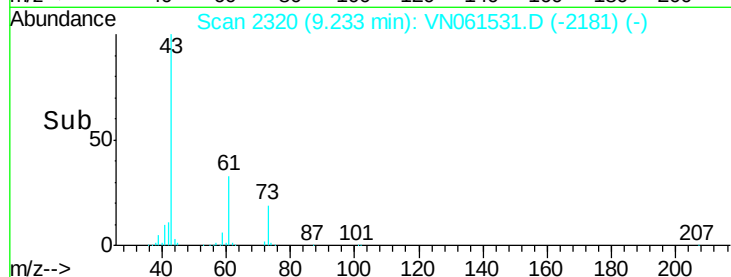
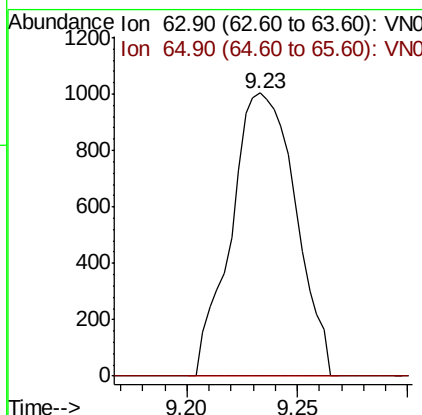
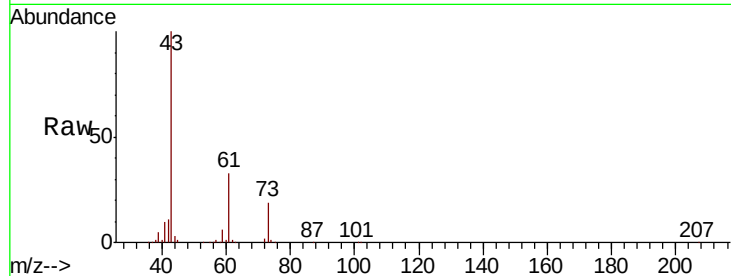




#45
 1,2-Dichloropropane
 Concen: 0.527 ug/l
 RT: 9.23 min Scan# 2320
 Delta R.T. 0.15 min
 Lab File: VN061531.D
 Acq: 21 May 2020 15:27

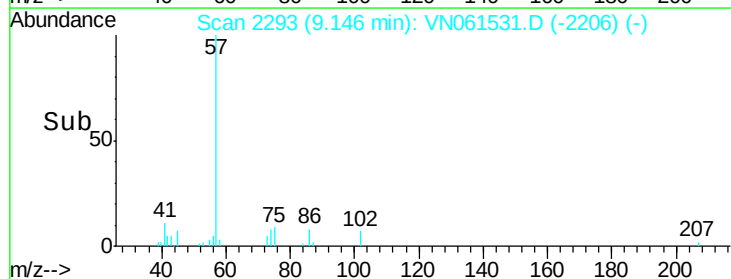
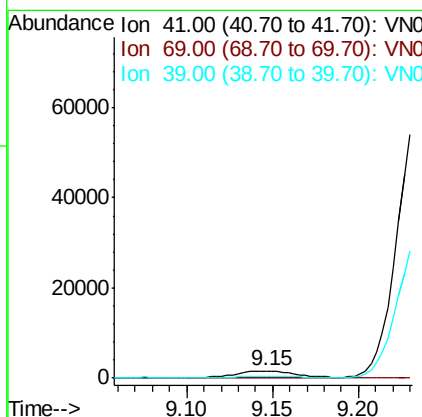
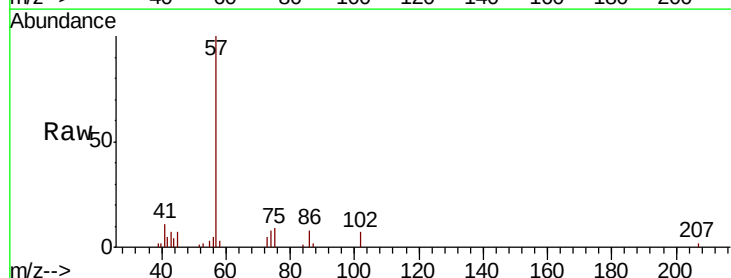
Instrument :
 MSVOA_N
 ClientSampled :

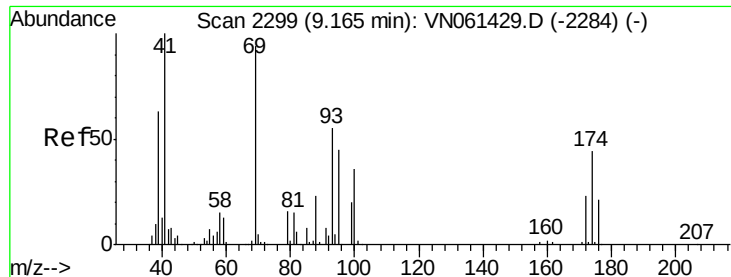
Tot Ion: 63 Resp: 2039
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.2 37.8#



#48
 Methyl methacrylate
 Concen: 1.024 ug/l
 RT: 9.15 min Scan# 2293
 Delta R.T. -0.02 min
 Lab File: VN061531.D
 Acq: 21 May 2020 15:27

Tgt Ion: 41 Resp: 3840
 Ion Ratio Lower Upper
 41 100
 69 0.0 75.3 112.9#
 39 0.0 52.6 79.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 9.24 min Scan# 2321

Delta R.T. 0.07 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

ClientSampled :

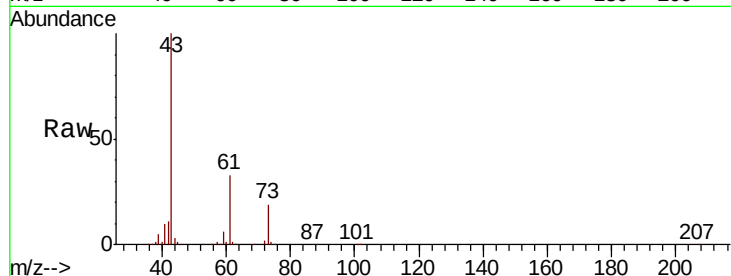
Tot Ion: 88 Resp: 33

Ion Ratio Lower Upper

88 100

43 3537912.1 26.3 39.5#

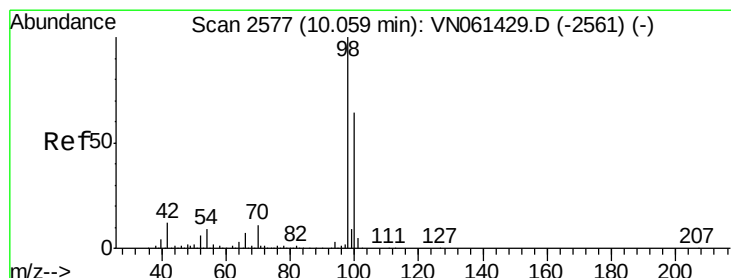
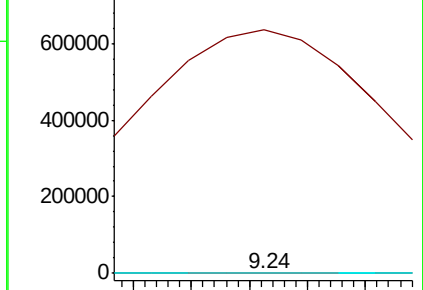
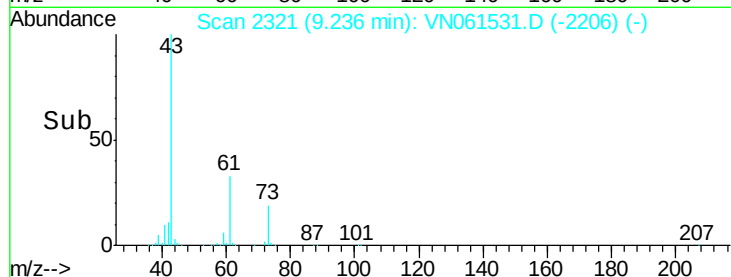
58 15421.2 54.1 81.1#



Abundance Ion 88.00 (87.70 to 88.70): VN061531.D (-2206) (-)

Ion 43.00 (42.70 to 43.70): VN061531.D (-2206) (-)

Ion 58.00 (57.70 to 58.70): VN061531.D (-2206) (-)



#50

Toluene-d8

Concen: 50.549 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.00 min

Lab File: VN061531.D

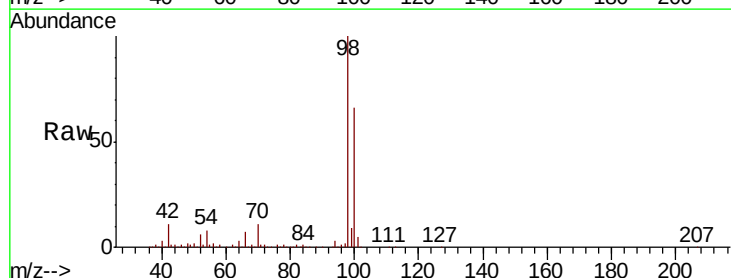
Acq: 21 May 2020 15:27

Tgt Ion: 98 Resp: 673842

Ion Ratio Lower Upper

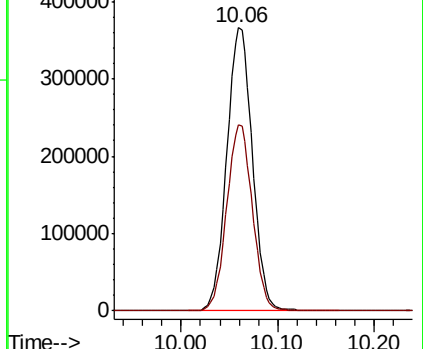
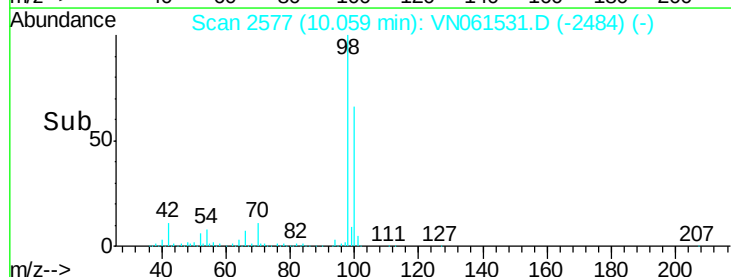
98 100

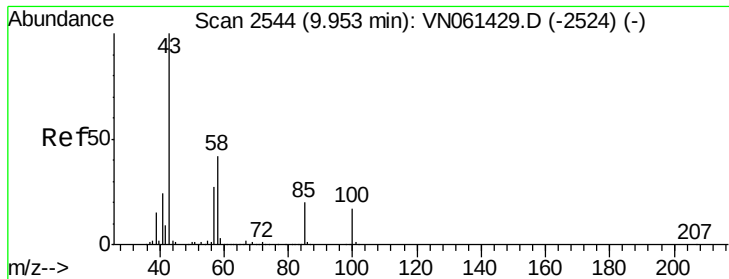
100 65.9 51.8 77.8



Abundance Ion 98.00 (97.70 to 98.70): VN061531.D (-2484) (-)

Ion 100.00 (99.70 to 100.70): VN061531.D (-2484) (-)





#51

4-Methyl-2-Pentanone

Concen: 1.526 ug/l

RT: 9.95 min Scan# 2544

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

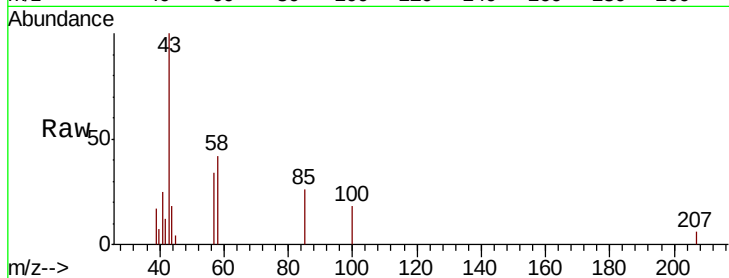
ClientSampled :

Tot Ion: 43 Resp: 6743

Ion Ratio Lower Upper

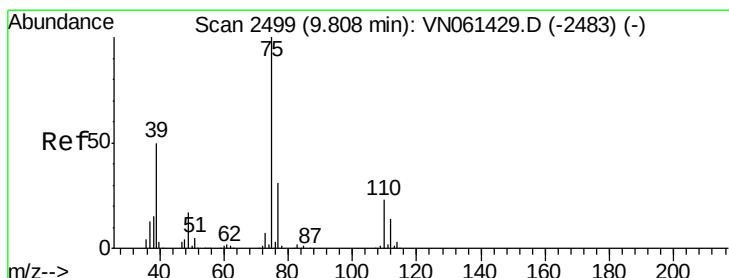
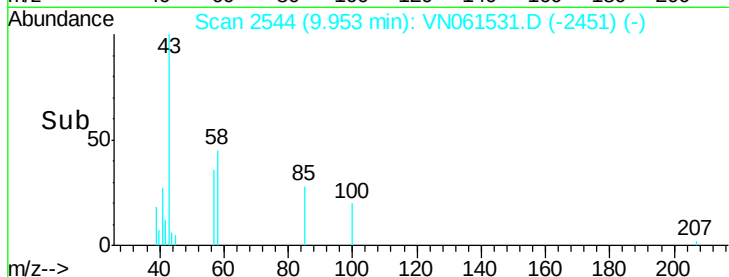
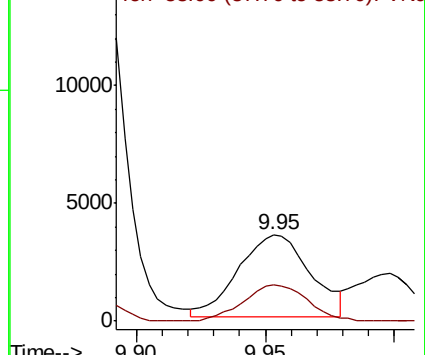
43 100

58 39.9 33.4 50.2



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-2524) (-)

Ion 58.00 (57.70 to 58.70): VN061429.D (-2524) (-)



#54

cis-1,3-Dichloropropene

Concen: 5.962 ug/l

RT: 9.87 min Scan# 2519

Delta R.T. 0.06 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

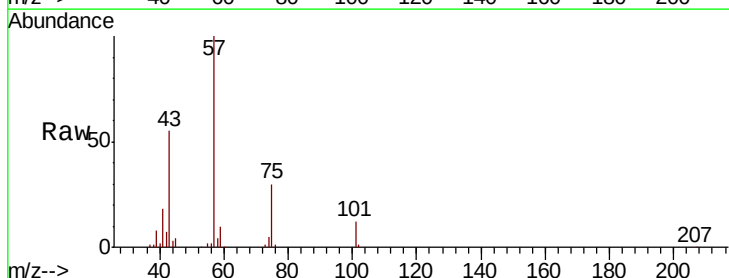
Tgt Ion: 75 Resp: 39702

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

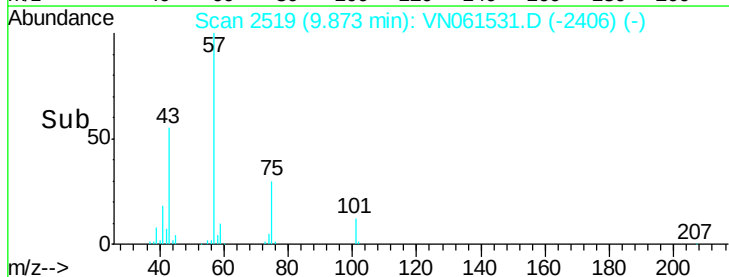
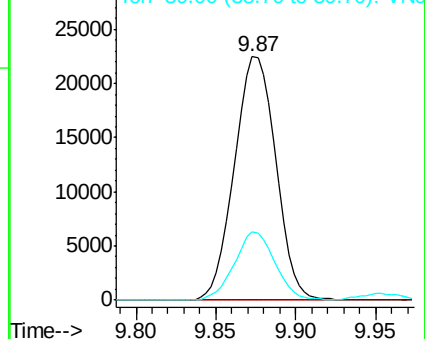
39 28.2 39.8 59.6#

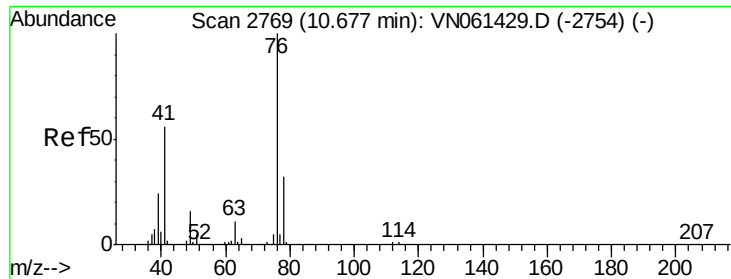


Abundance Ion 74.90 (74.60 to 75.60): VN061429.D (-2483) (-)

Ion 76.90 (76.60 to 77.60): VN061429.D (-2483) (-)

Ion 39.00 (38.70 to 39.70): VN061429.D (-2483) (-)





#57

1,3-Dichloropropane

Concen: 0.983 ug/l

RT: 10.74 min Scan# 2789

Delta R.T. 0.06 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

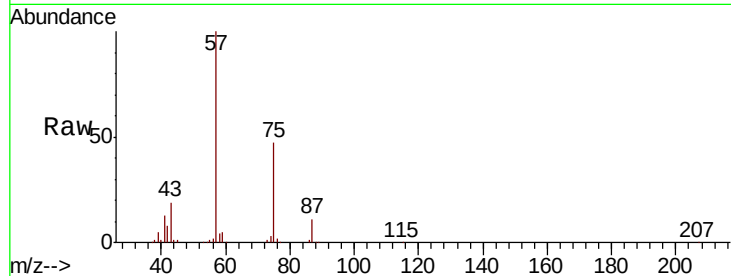
ClientSampled :

Tot Ion: 76 Resp: 6375

Ion Ratio Lower Upper

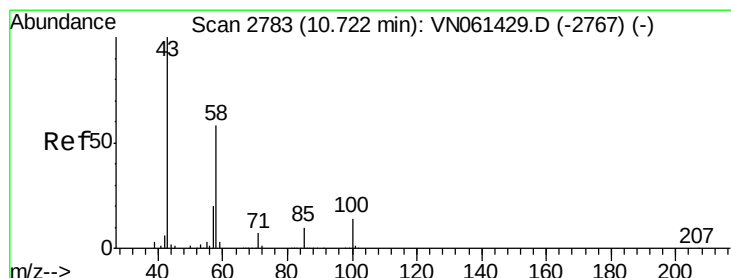
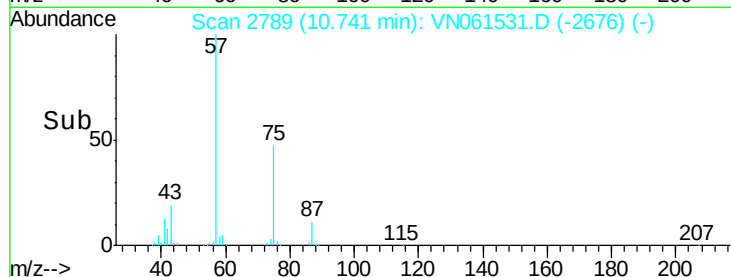
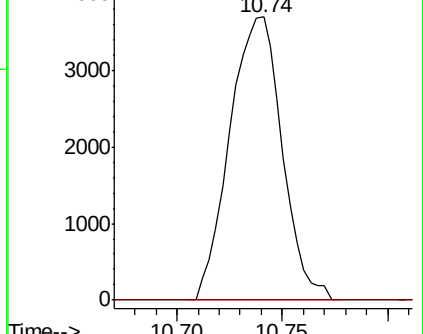
76 100

78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 23.778 ug/l

RT: 10.74 min Scan# 2788

Delta R.T. 0.02 min

Lab File: VN061531.D

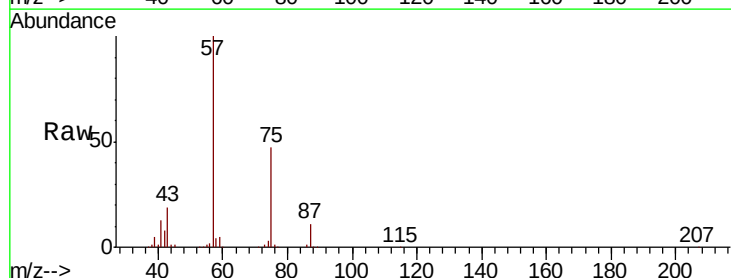
Acq: 21 May 2020 15:27

Tgt Ion: 43 Resp: 76040

Ion Ratio Lower Upper

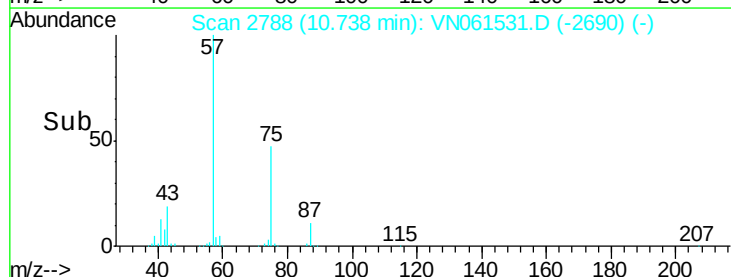
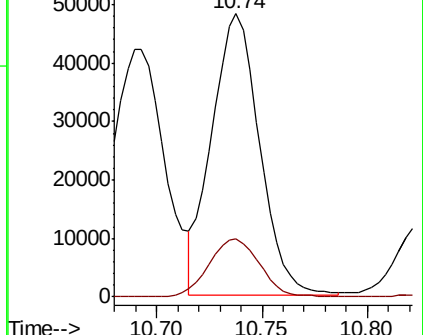
43 100

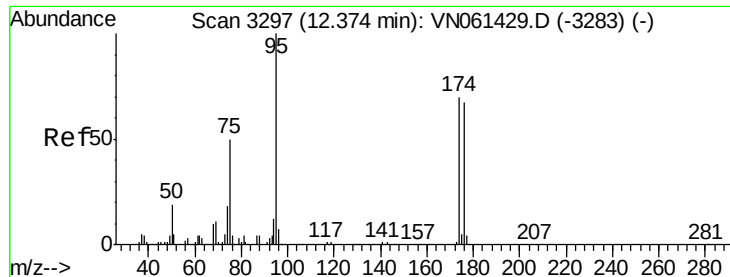
58 21.9 29.2 87.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 52.568 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

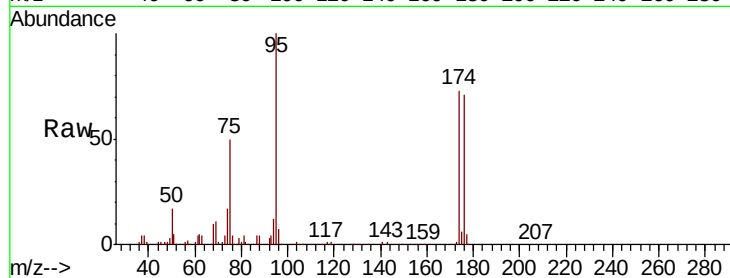
Tot Ion: 95 Resp: 261807

Ion Ratio Lower Upper

95 100

174 75.2 0.0 141.2

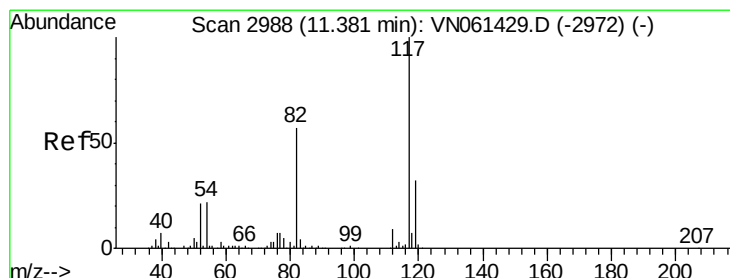
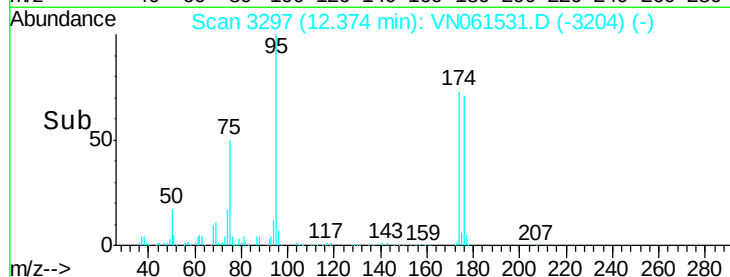
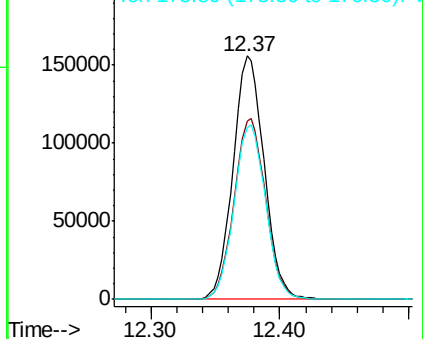
176 72.5 0.0 137.6



Abundance Ion 94.90 (94.60 to 95.60): VN061531.D (-3204) (-)

Ion 173.80 (173.50 to 174.50): VN061531.D (-3204) (-)

Ion 175.80 (175.50 to 176.50): VN061531.D (-3204) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

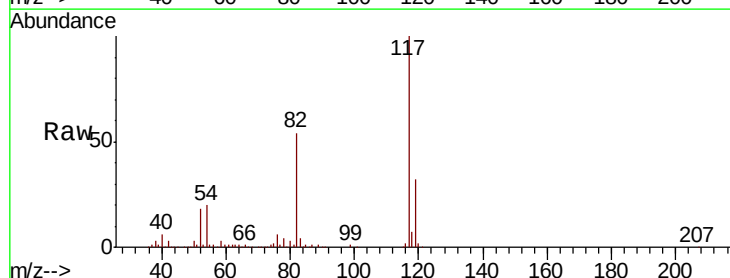
Tgt Ion: 117 Resp: 553490

Ion Ratio Lower Upper

117 100

82 54.2 45.2 67.8

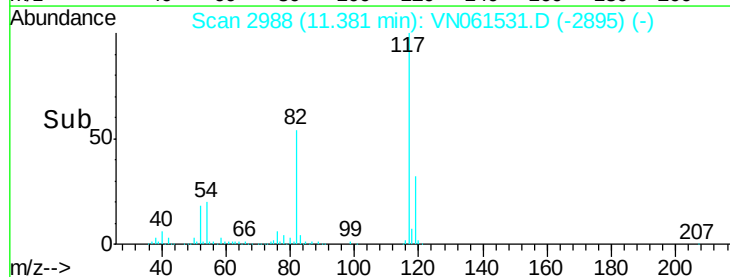
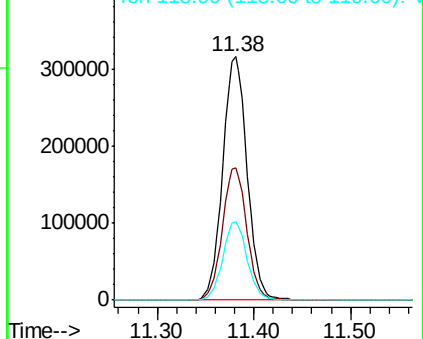
119 32.4 25.3 37.9

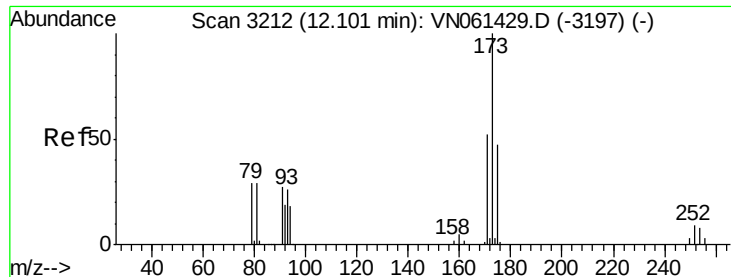


Abundance Ion 116.90 (116.60 to 117.60): VN061531.D (-2895) (-)

Ion 82.00 (81.70 to 82.70): VN061531.D (-2895) (-)

Ion 118.90 (118.60 to 119.60): VN061531.D (-2895) (-)





#71

Bromoform

Concen: 2.599 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.28 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

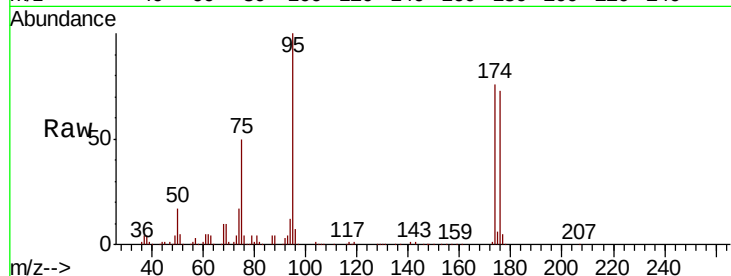
Tot Ion:173 Resp: 1899

Ion Ratio Lower Upper

173 100

175 697.9 23.9 71.8#

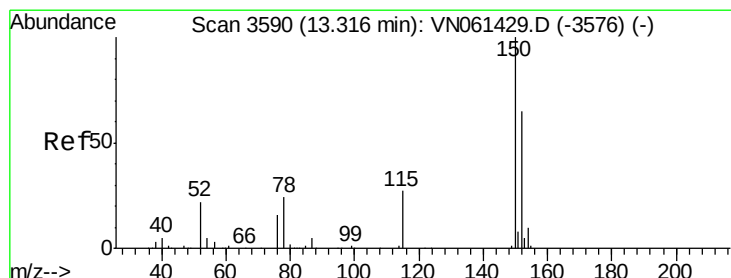
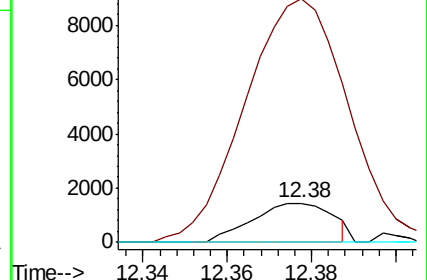
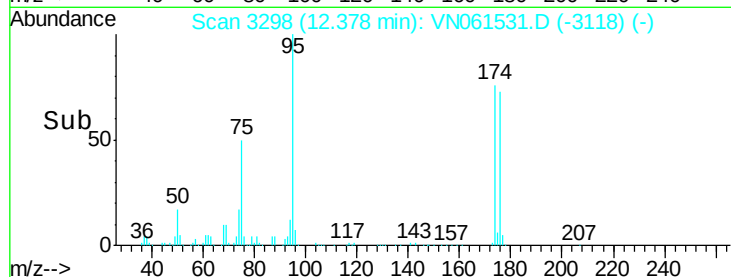
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

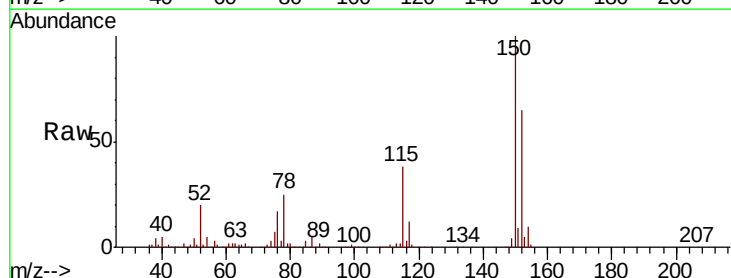
Tgt Ion:152 Resp: 241745

Ion Ratio Lower Upper

152 100

115 59.9 30.9 92.5

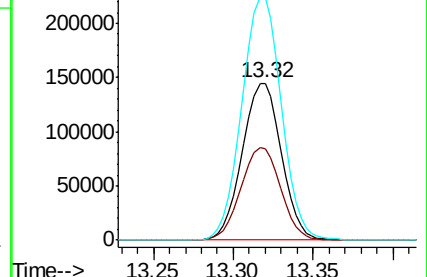
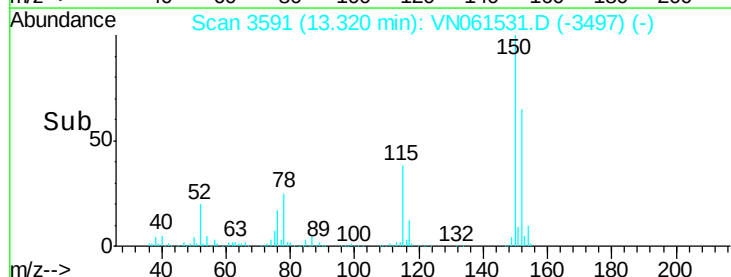
150 156.4 0.0 349.2

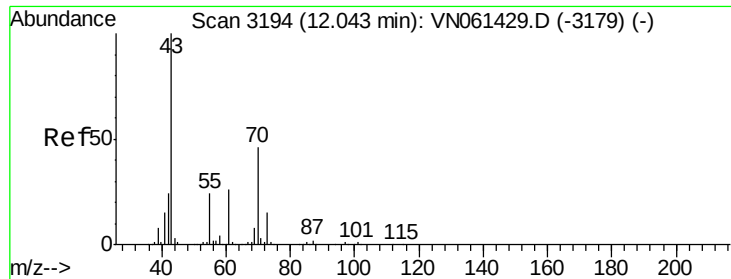


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.346 ug/l

RT: 12.00 min Scan# 3182

Delta R.T. -0.04 min

Lab File: VN061531.D

Acq: 21 May 2020 15:27

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2456

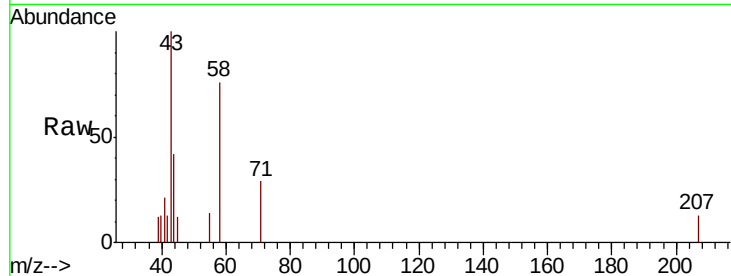
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 7.0 19.5 29.3#

61 0.0 20.8 31.2#

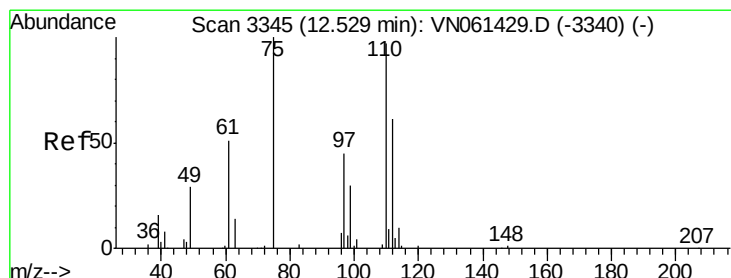
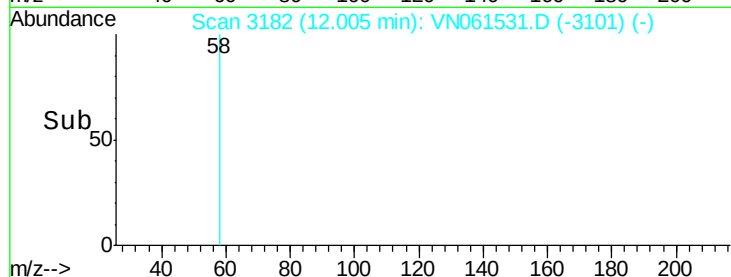
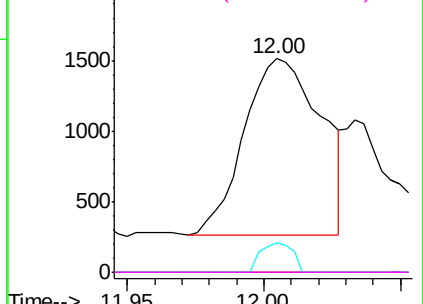


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.565 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. -0.15 min

Lab File: VN061531.D

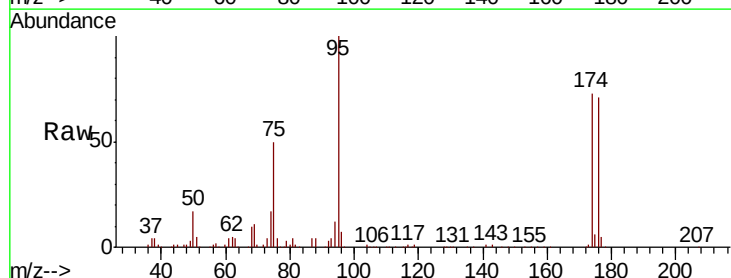
Acq: 21 May 2020 15:27

Tgt Ion: 75 Resp: 132613

Ion Ratio Lower Upper

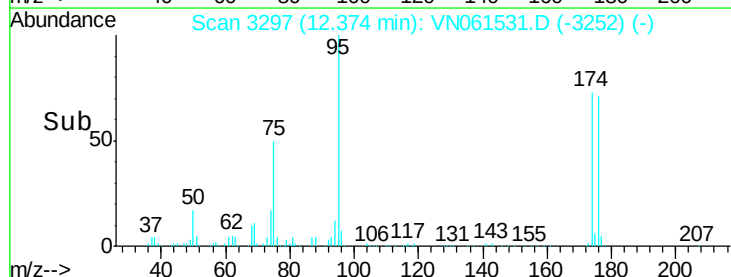
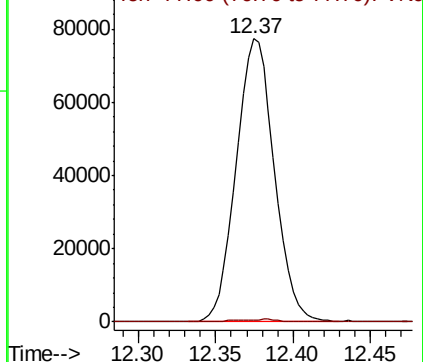
75 100

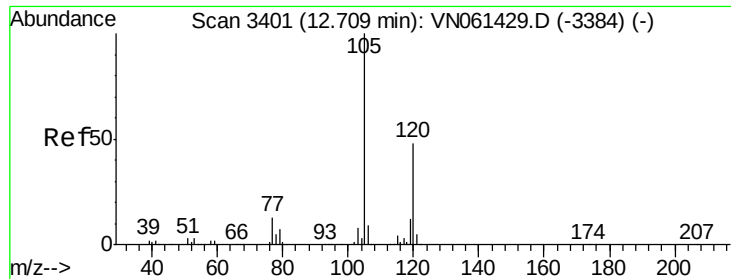
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

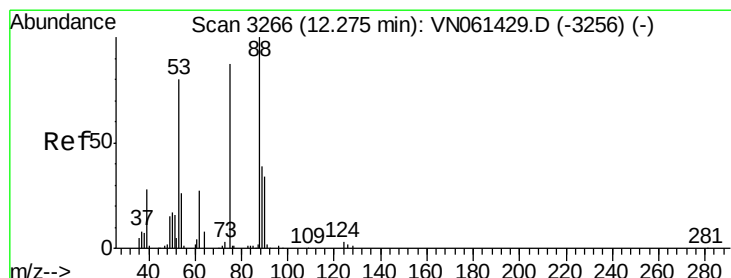
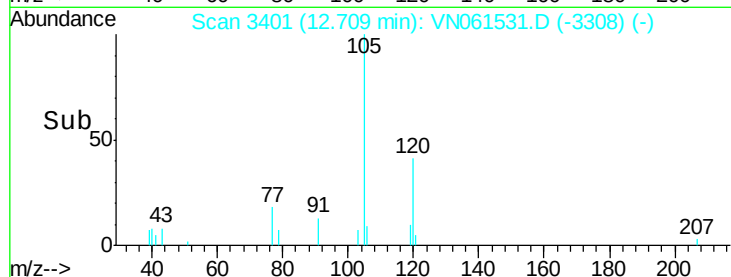
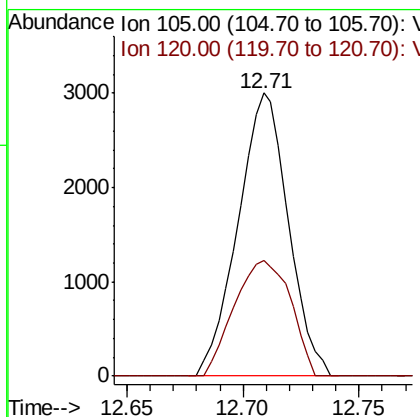
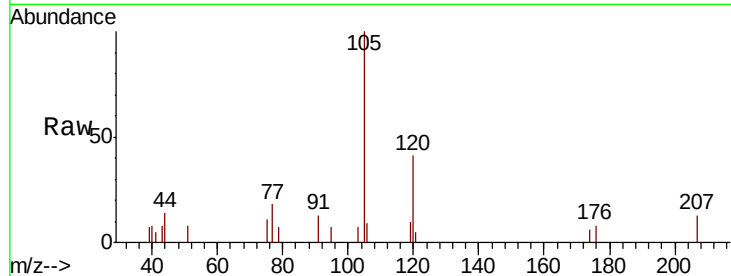




#80
 1,3,5-Trimethylbenzene
 Concen: 0.285 ug/l
 RT: 12.71 min Scan# 3401
 Delta R.T. 0.00 min
 Lab File: VN061531.D
 Acq: 21 May 2020 15:27

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:105 Resp: 4524
 Ion Ratio Lower Upper
 105 100
 120 45.9 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.819 ug/l
 RT: 12.37 min Scan# 3297
 Delta R.T. 0.10 min
 Lab File: VN061531.D
 Acq: 21 May 2020 15:27

Tgt Ion: 75 Resp: 132613
 Ion Ratio Lower Upper
 75 100
 53 0.0 75.2 112.8#
 89 0.0 38.2 57.4#

