

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN051820\
 Data File : VN061463.D
 Acq On : 19 May 2020 6:33
 Operator : JC/MD
 Sample : PB128923ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

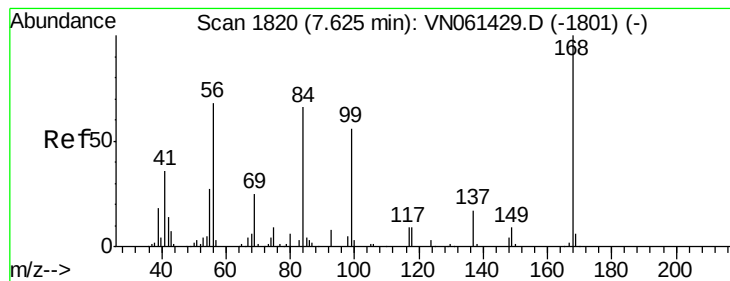
Quant Time: May 19 07:04:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N051820W.M
 Quant Title : SW846 8260
 QLast Update : Mon May 18 13:09:55 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	258078	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	476767	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	481985	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	214303	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	187777	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
35) Dibromofluoromethane	7.55	113	125205	50.13	ug/l	0.00
Spiked Amount			Recovery	=	100.26%	
50) Toluene-d8	10.06	98	612734	52.89	ug/l	0.00
Spiked Amount			Recovery	=	105.78%	
62) 4-Bromofluorobenzene	12.38	95	236358	54.61	ug/l	0.00
Spiked Amount			Recovery	=	109.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	247	Below Cal	#	3
11) Tert butyl alcohol	4.71	59	93	0.210	ug/l #	73
13) Acrolein	3.38	56	30	Below Cal	#	16
16) Acetone	3.78	43	24865	14.454	ug/l	99
17) Carbon Disulfide	4.01	76	130	Below Cal	#	75
18) Methyl Acetate	4.28	43	1337	Below Cal	#	69
20) Methylene Chloride	4.50	84	22887	7.230	ug/l	95
25) 2-Butanone	6.79	43	2156	1.229	ug/l #	76
29) Tetrahydrofuran	7.18	42	336	0.289	ug/l #	29
31) Cyclohexane	7.63	56	6368	Below Cal	#	19
36) 1,1-Dichloropropene	7.63	75	22239	4.989	ug/l #	50
38) Carbon Tetrachloride	7.63	117	27547	6.711	ug/l #	15
43) Isopropyl Acetate	8.13	43	74700	10.594	ug/l #	91
45) 1,2-Dichloropropane	9.24	63	1511	0.449	ug/l #	43
48) Methyl methacrylate	9.14	41	3837	1.178	ug/l #	9
51) 4-Methyl-2-Pentanone	9.95	43	6649	1.731	ug/l	98
54) cis-1,3-Dichloropropene	9.88	75	38305	6.619	ug/l #	59
57) 1,3-Dichloropropane	10.74	76	6296	1.117	ug/l #	42
59) 2-Hexanone	10.74	43	78887	28.386	ug/l #	50
71) Bromoform	12.37	173	1471	2.535	ug/l #	1
74) N-amyl acetate	12.01	43	4400	0.699	ug/l #	42
76) 1,2,3-Trichloropropane	12.38	75	124856	27.152	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.71	105	4243	0.301	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.38	75	124856	72.028	ug/l #	12

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

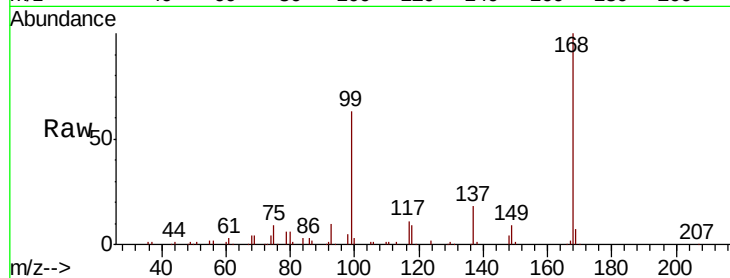
ClientSampleId :

Tot Ion:168 Resp: 258078

Ion Ratio Lower Upper

168 100

99 63.5 51.1 76.7



Abundance Ion 167.90 (167.60 to 168.60): VN061429.D

Ion 98.90 (98.60 to 99.60): VN061429.D

7.63

120000

100000

80000

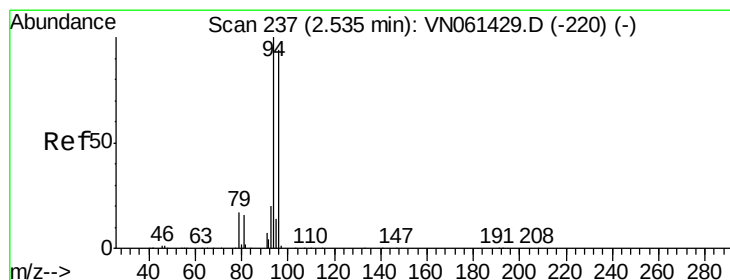
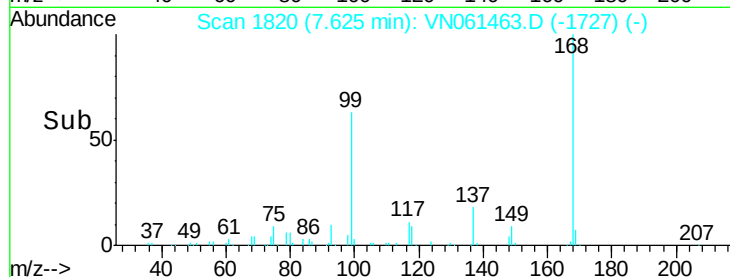
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 235

Delta R.T. -0.01 min

Lab File: VN061463.D

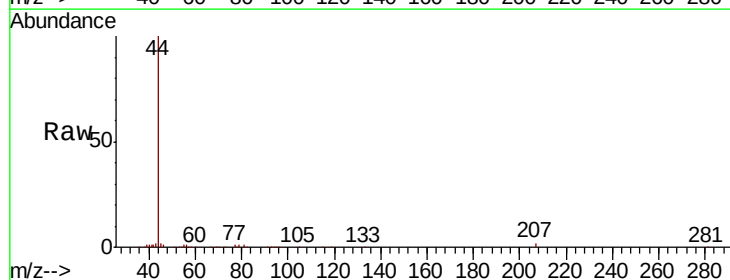
Acq: 19 May 2020 6:33

Tgt Ion: 94 Resp: 247

Ion Ratio Lower Upper

94 100

96 0.0 74.9 112.3#



Abundance Ion 93.90 (93.60 to 94.60): VN061429.D

Ion 95.90 (95.60 to 96.60): VN061429.D

2.53

400

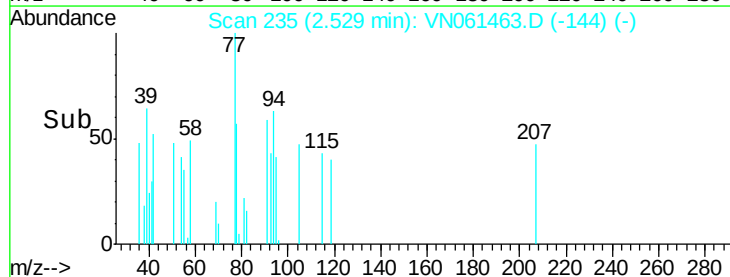
300

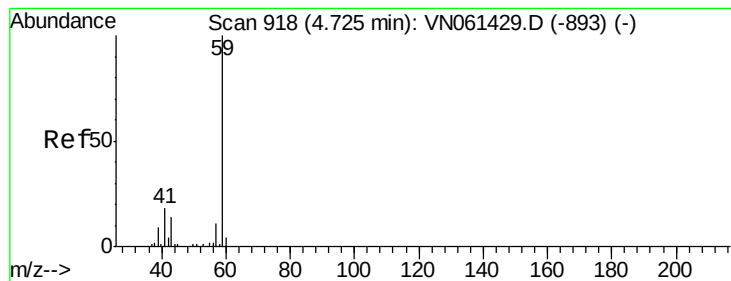
200

100

0

Time--> 2.51 2.52 2.53 2.54





#11

Tert butyl alcohol

Concen: 0.210 ug/l

RT: 4.71 min Scan# 912

Delta R.T. -0.02 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

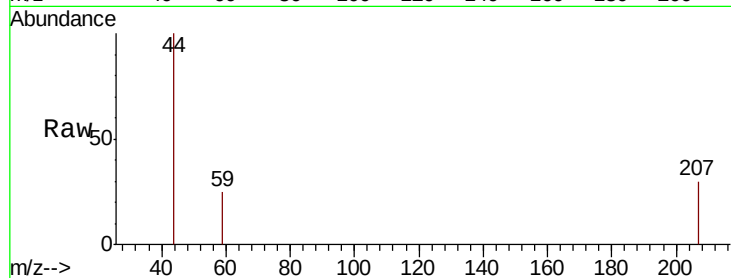
ClientSampled :

Tot Ion: 59 Resp: 93

Ion Ratio Lower Upper

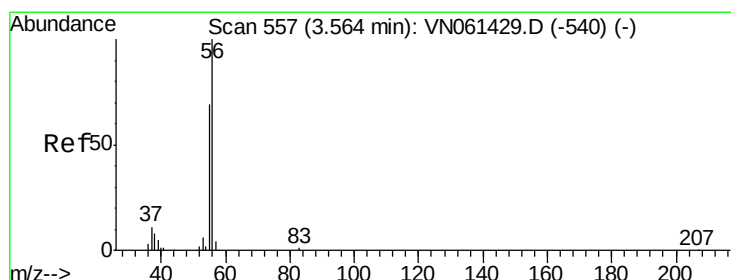
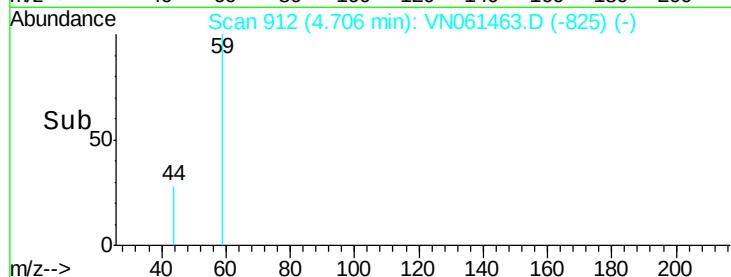
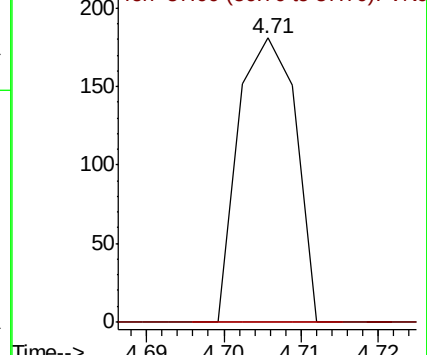
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



#13

Acrolein

Concen: Below Cal

RT: 3.38 min Scan# 500

Delta R.T. -0.18 min

Lab File: VN061463.D

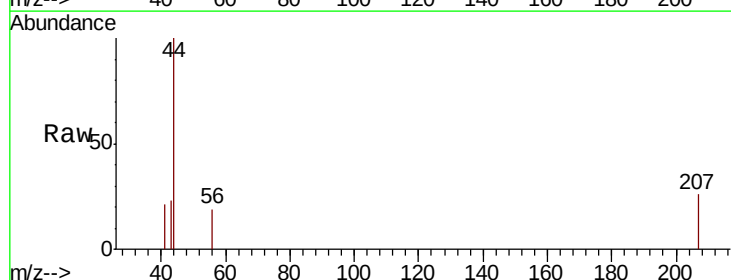
Acq: 19 May 2020 6:33

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

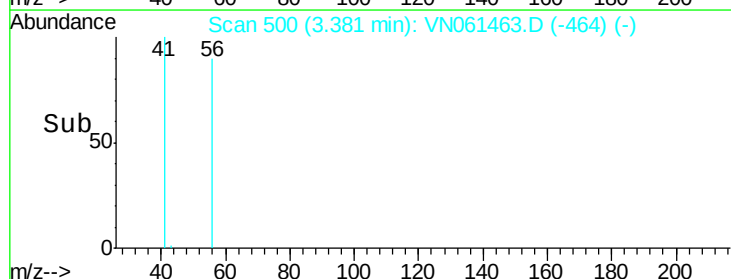
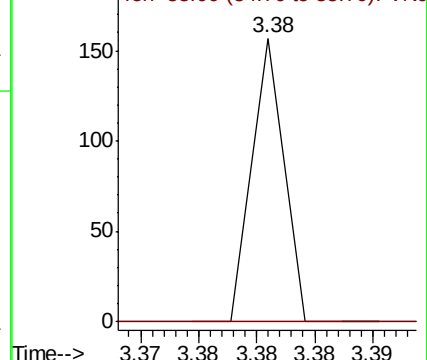
56 100

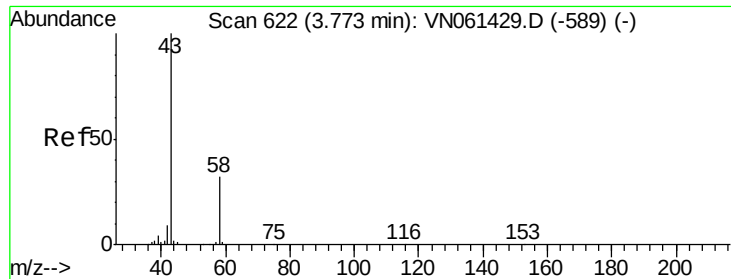
55 0.0 54.8 82.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0





#16

Acetone

Concen: 14.454 ug/l

RT: 3.78 min Scan# 623

Delta R.T. 0.00 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

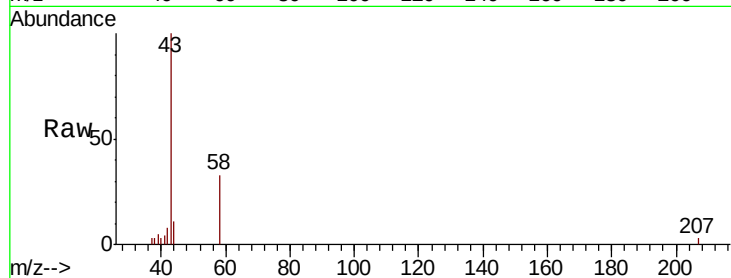
ClientSampled :

Tot Ion: 43 Resp: 24865

Ion Ratio Lower Upper

43 100

58 32.6 25.6 38.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.78

10000

8000

6000

4000

2000

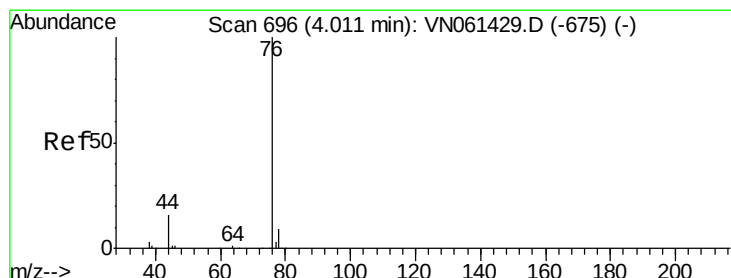
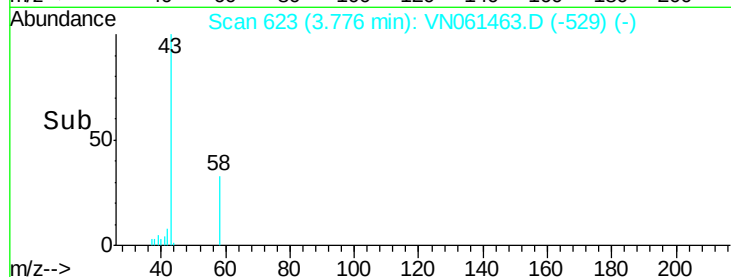
0

Time-->

3.70

3.80

3.90



#17

Carbon Disulfide

Concen: Below Cal

RT: 4.01 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN061463.D

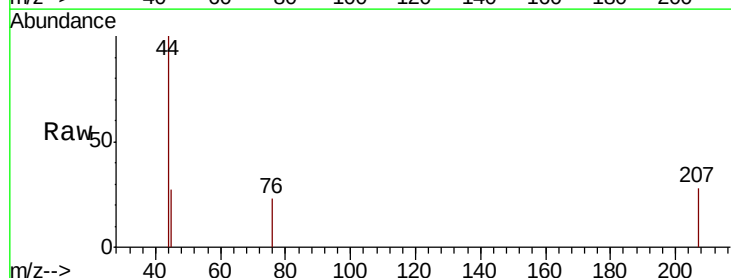
Acq: 19 May 2020 6:33

Tgt Ion: 76 Resp: 130

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.01

200

150

100

50

0

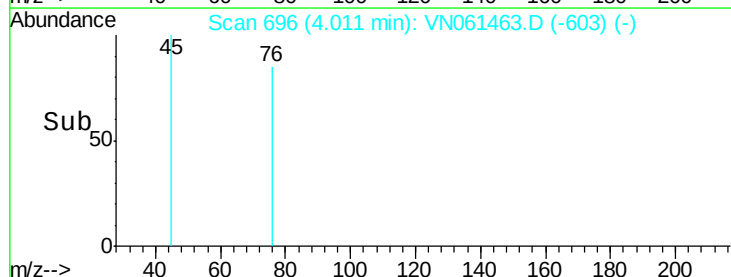
Time-->

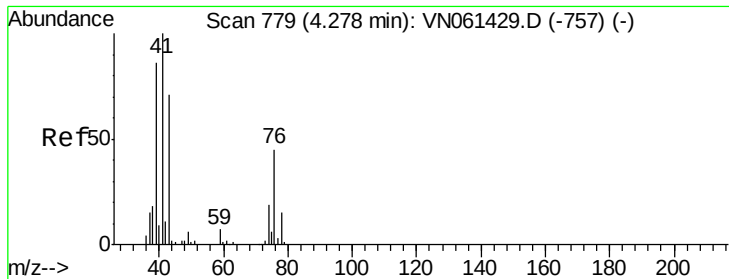
4.00

4.01

4.02

4.03

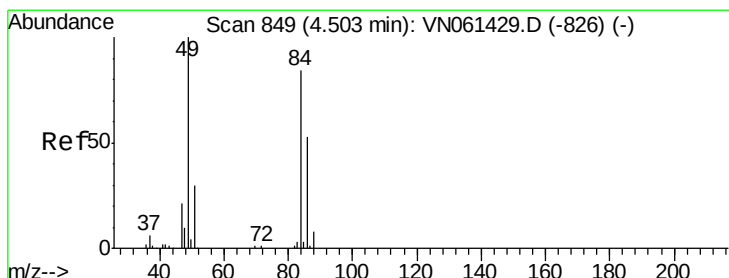
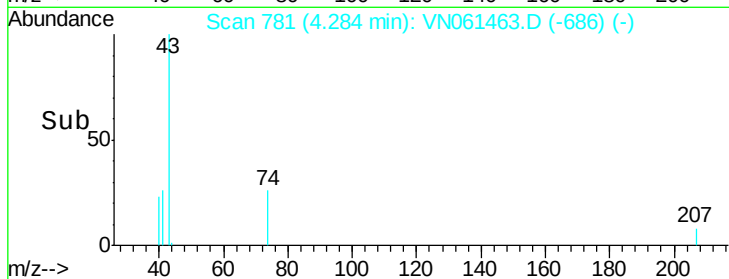
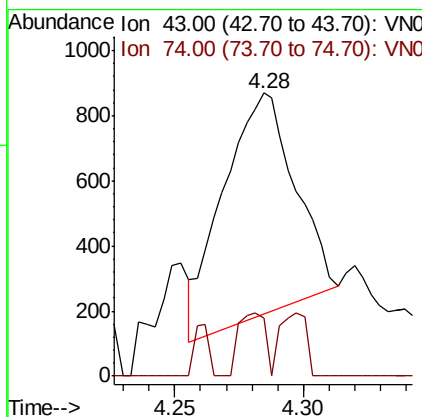
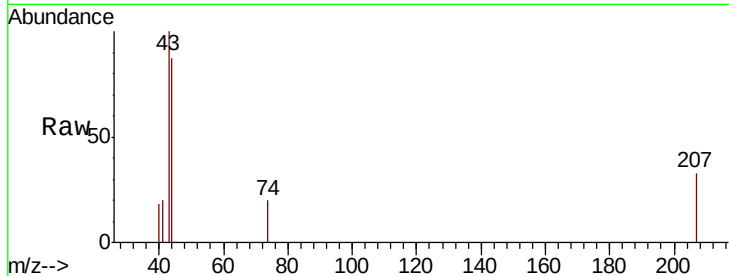




#18
Methyl Acetate
Concen: Below Cal
RT: 4.28 min Scan# 781
Delta R.T. 0.01 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

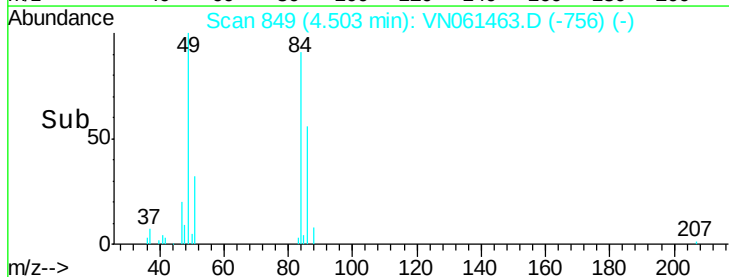
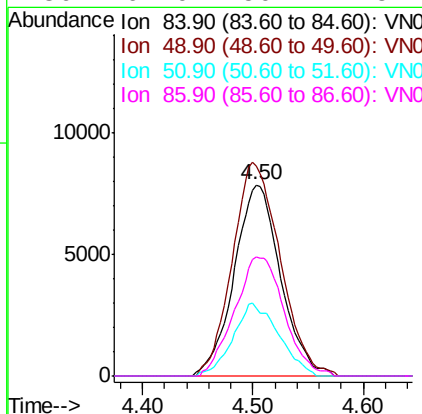
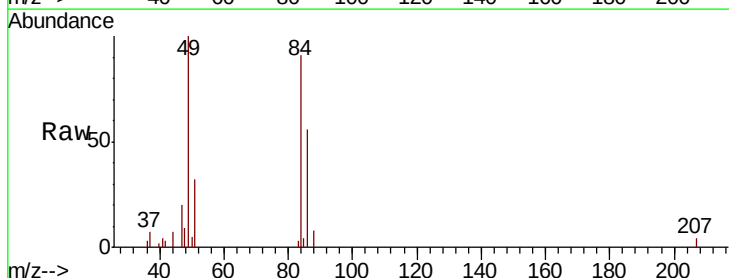
Instrument :
MSVOA_N
ClientSampled :

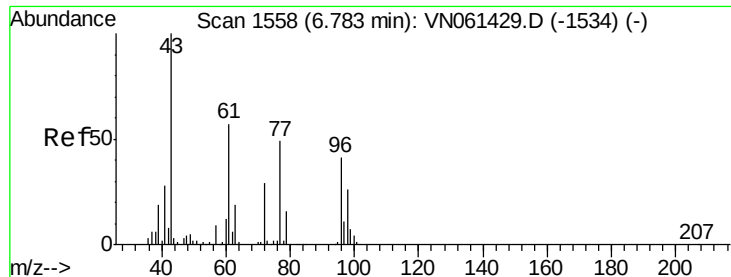
Tot Ion: 43 Resp: 1337
Ion Ratio Lower Upper
43 100
74 10.4 20.8 31.2#



#20
Methylene Chloride
Concen: 7.230 ug/l
RT: 4.50 min Scan# 849
Delta R.T. -0.00 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

Tgt Ion: 84 Resp: 22887
Ion Ratio Lower Upper
84 100
49 109.9 95.3 142.9
51 35.5 29.0 43.6
86 62.0 50.2 75.2

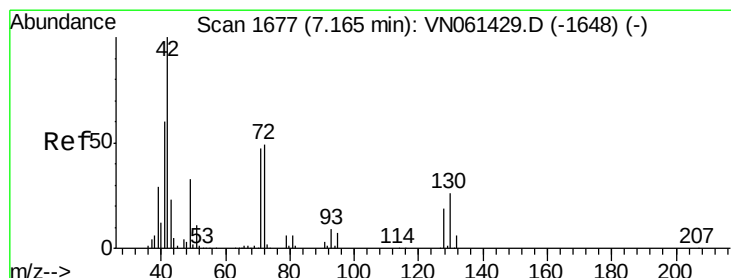
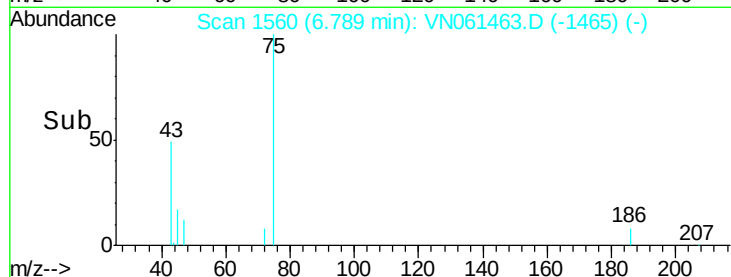
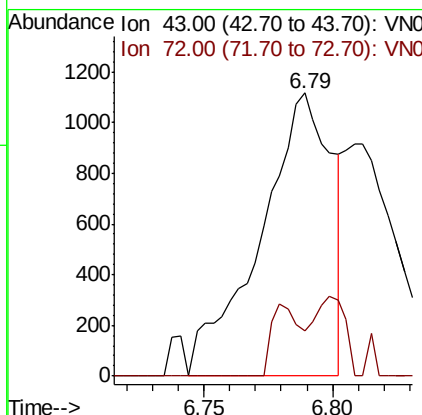
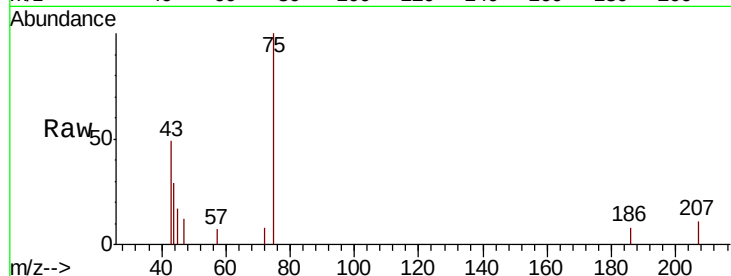




#25
 2-Butanone
 Concen: 1.229 ug/l
 RT: 6.79 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

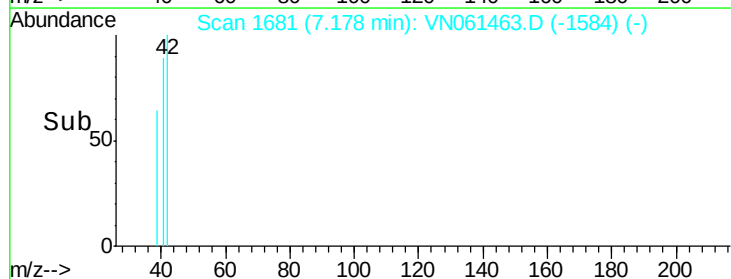
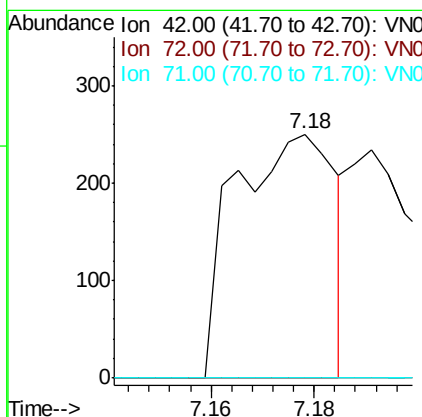
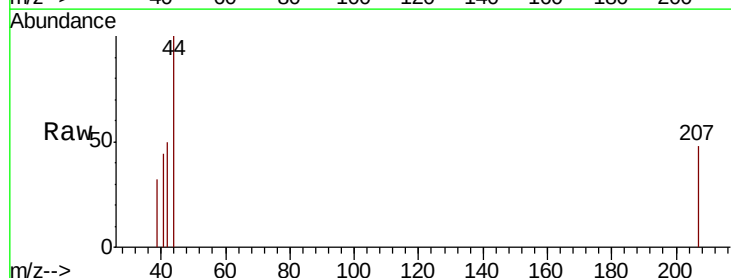
Instrument :
 MSVOA_N
 ClientSampled :

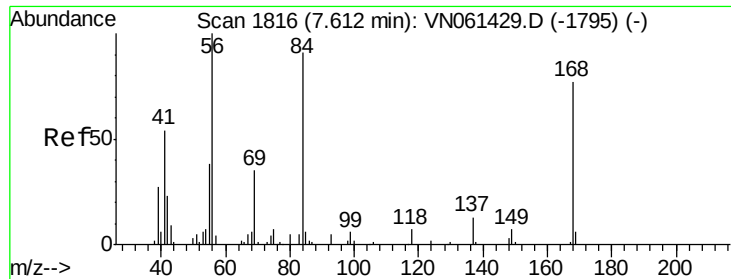
Tot Ion: 43 Resp: 2156
 Ion Ratio Lower Upper
 43 100
 72 15.9 23.0 34.6#



#29
 Tetrahydrofuran
 Concen: 0.289 ug/l
 RT: 7.18 min Scan# 1681
 Delta R.T. 0.01 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

Tgt Ion: 42 Resp: 336
 Ion Ratio Lower Upper
 42 100
 72 0.0 39.0 58.6#
 71 0.0 36.9 55.3#

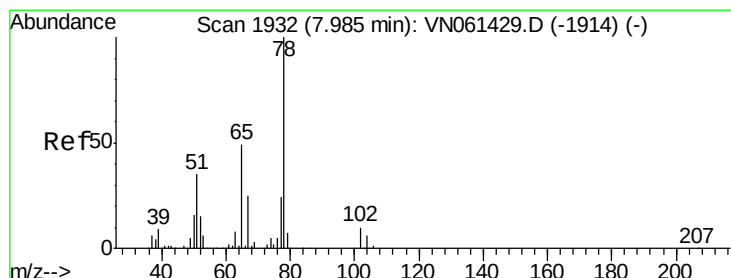
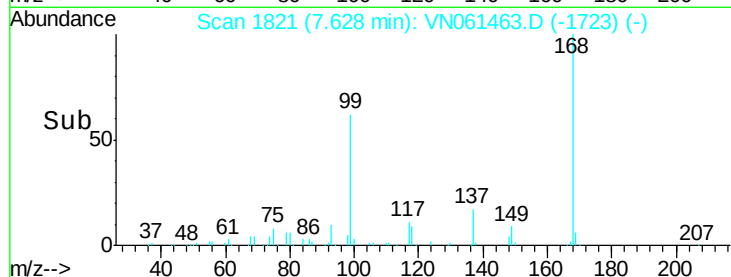
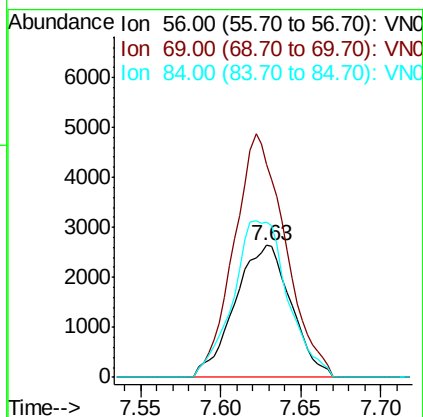
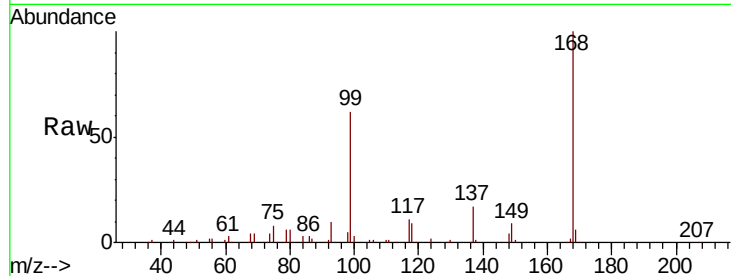




#31
Cyclohexane
Concen: Below Cal
RT: 7.63 min Scan# 1821
Delta R.T. 0.02 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

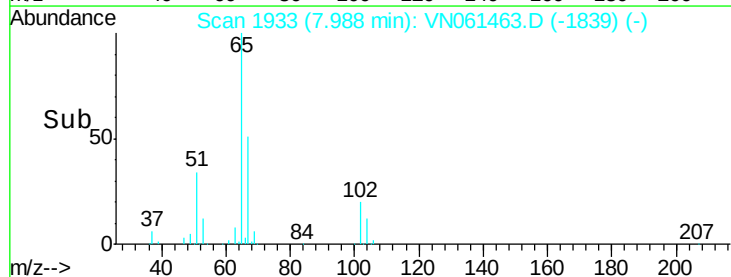
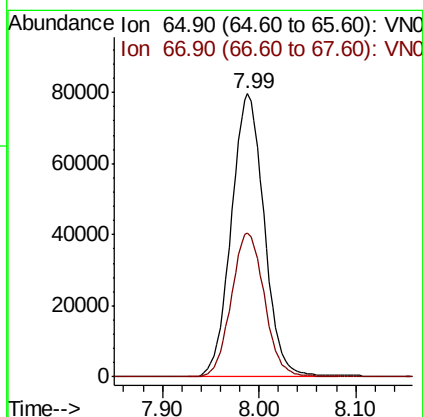
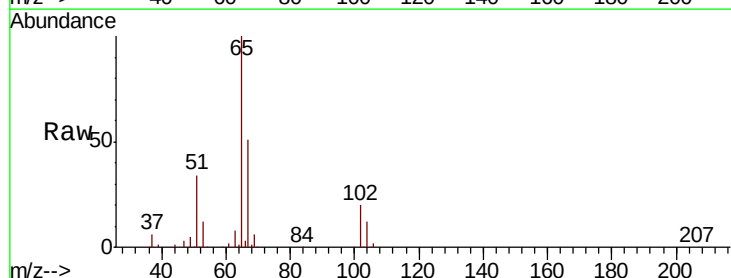
Instrument :
MSVOA_N
ClientSampled :

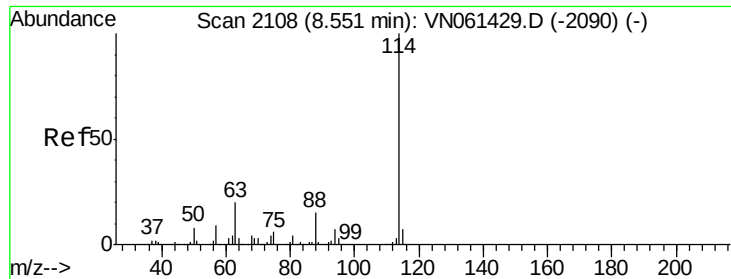
Tot Ion: 56 Resp: 6368
Ion Ratio Lower Upper
56 100
69 161.5 27.8 41.6#
84 117.5 72.7 109.1#



#33
1,2-Dichloroethane-d4
Concen: 48.752 ug/l
RT: 7.99 min Scan# 1933
Delta R.T. 0.00 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

Tgt Ion: 65 Resp: 187777
Ion Ratio Lower Upper
65 100
67 51.4 0.0 101.4

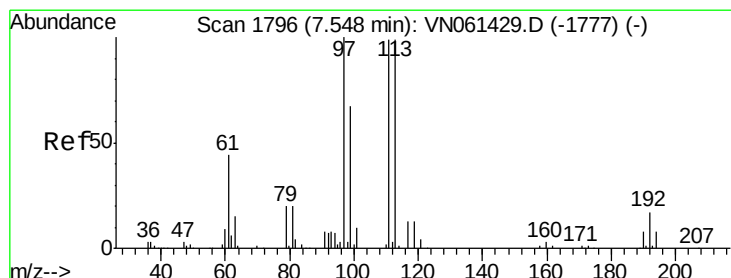
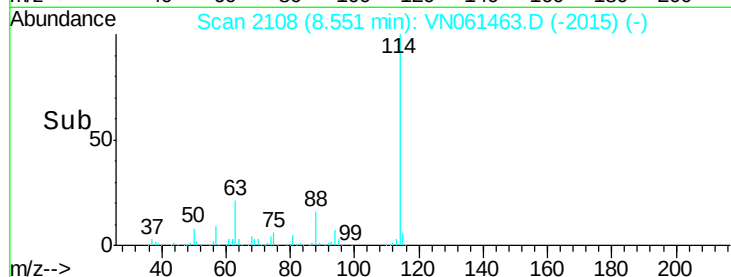
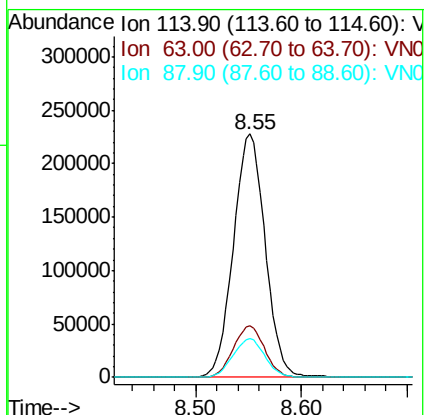
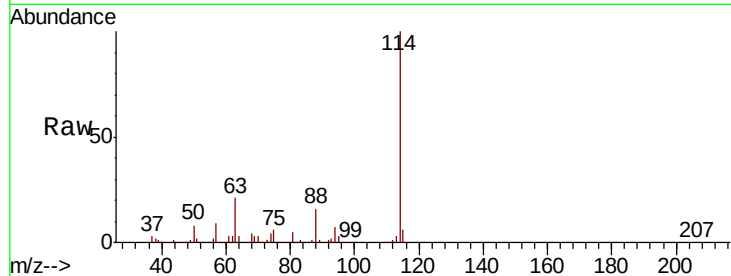




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2108
 Delta R.T. -0.00 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

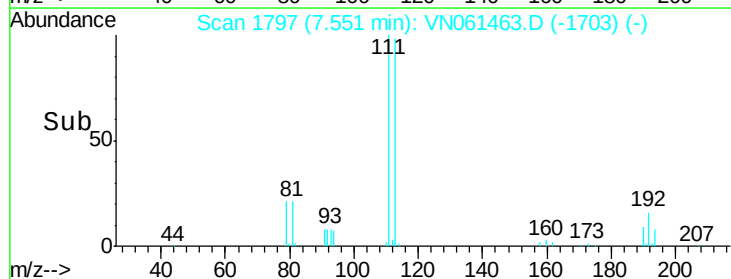
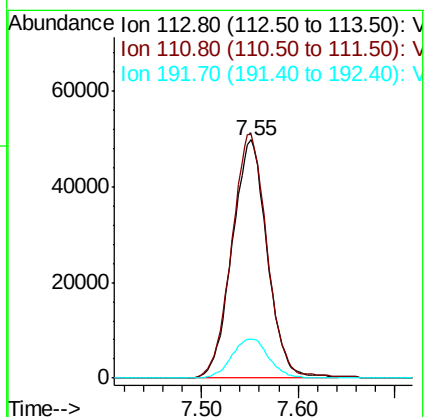
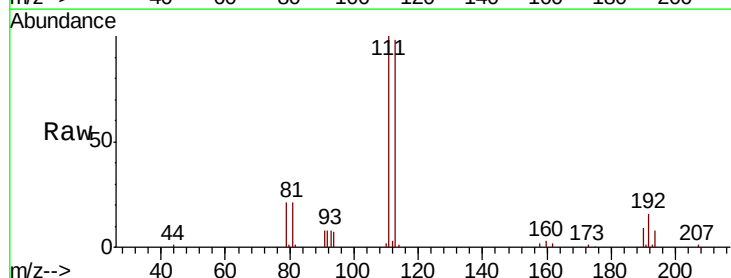
Instrument :
 MSVOA_N
 ClientSampleId :

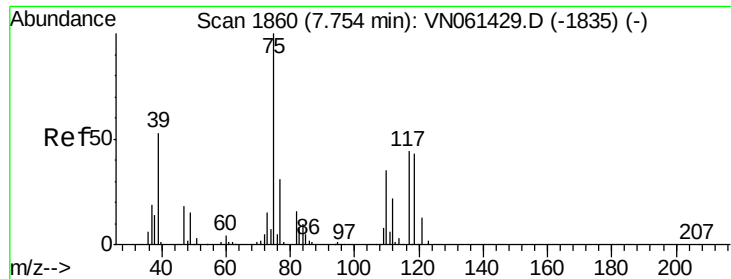
Tot Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	40.8
88	15.9	0.0	30.8



#35
 Dibromofluoromethane
 Concen: 50.129 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. 0.00 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.2	80.6	121.0
192	17.3	13.2	19.8

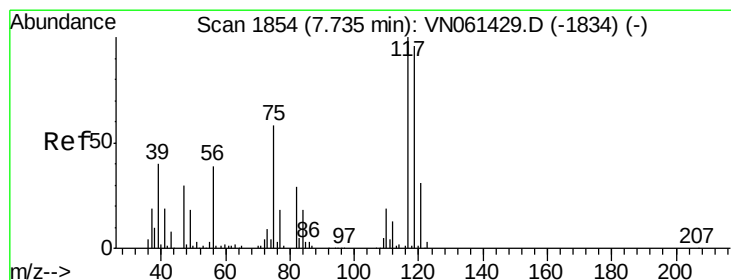
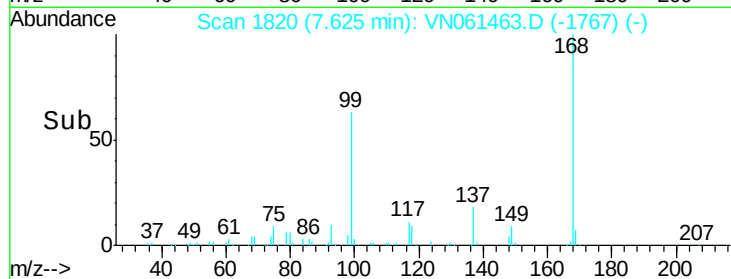
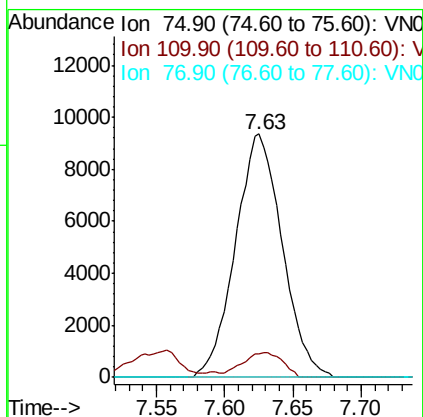
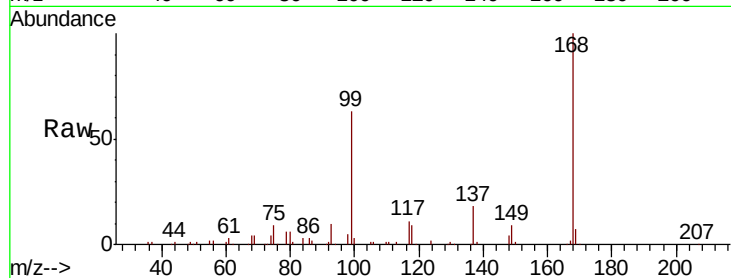




#36
 1,1-Dichloropropene
 Concen: 4.989 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

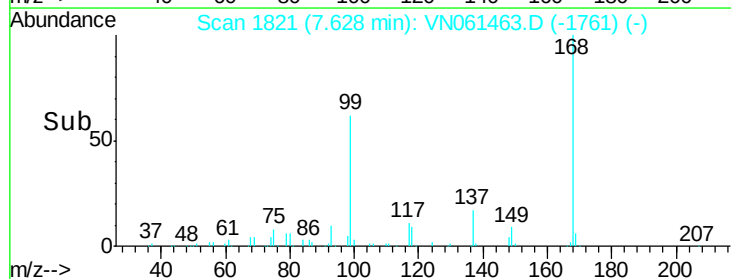
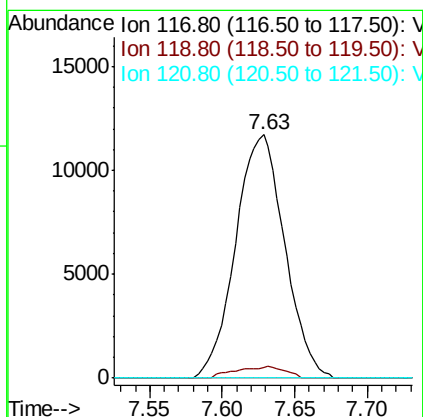
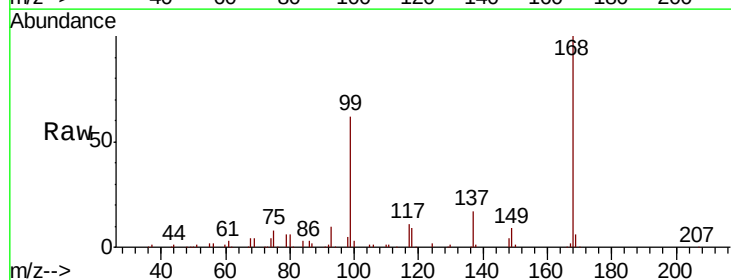
Instrument :
 MSVOA_N
 ClientSampleId :

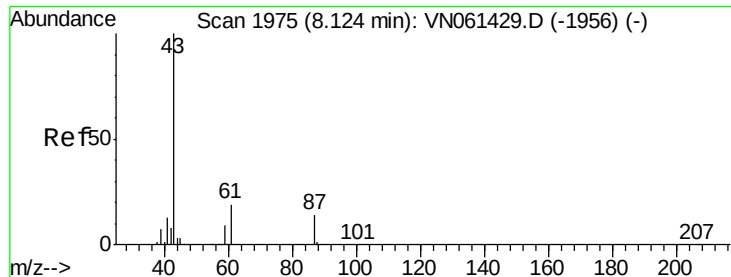
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.3	51.9#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 6.711 ug/l
 RT: 7.63 min Scan# 1821
 Delta R.T. -0.11 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.3	77.0	115.6#
121	0.0	24.7	37.1#





#43

Isopropyl Acetate

Concen: 10.594 ug/l

RT: 8.13 min Scan# 1976

Delta R.T. 0.00 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

ClientSampleId :

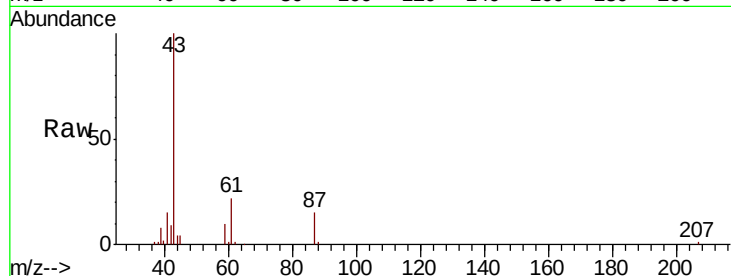
Tot Ion: 43 Resp: 74700

Ion Ratio Lower Upper

43 100

61 21.3 23.0 34.4#

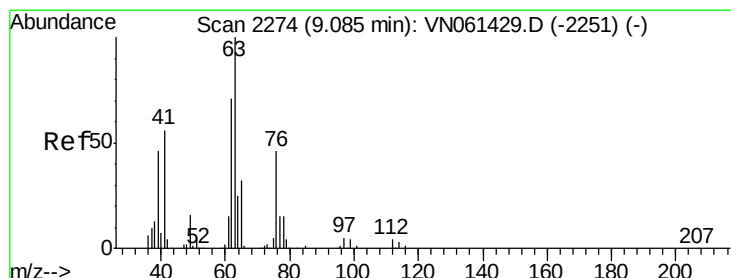
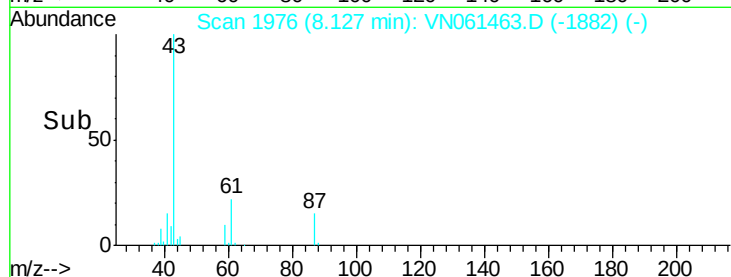
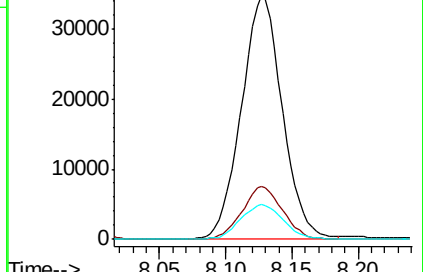
87 14.8 11.6 17.4



Abundance Ion 43.00 (42.70 to 43.70): VN061429.D (-1956) (-)

Ion 61.00 (60.70 to 61.70): VN061429.D (-1956) (-)

Ion 87.00 (86.70 to 87.70): VN061429.D (-1956) (-)



#45

1,2-Dichloropropane

Concen: 0.449 ug/l

RT: 9.24 min Scan# 2322

Delta R.T. 0.15 min

Lab File: VN061463.D

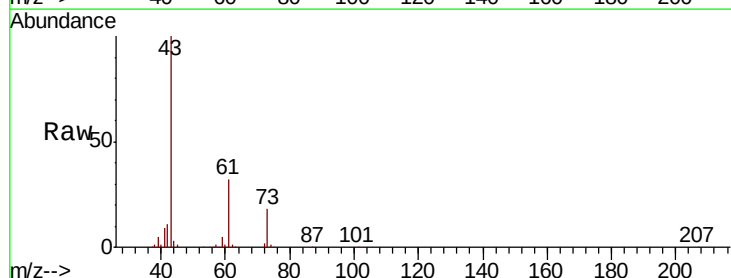
Acq: 19 May 2020 6:33

Tgt Ion: 63 Resp: 1511

Ion Ratio Lower Upper

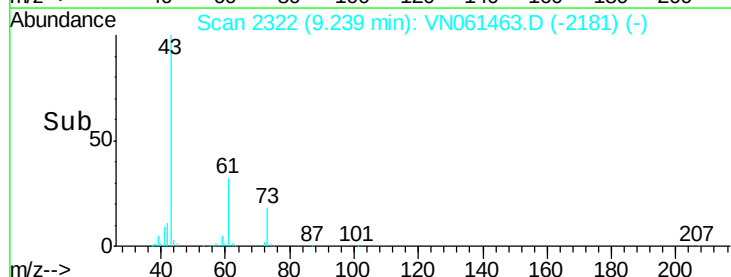
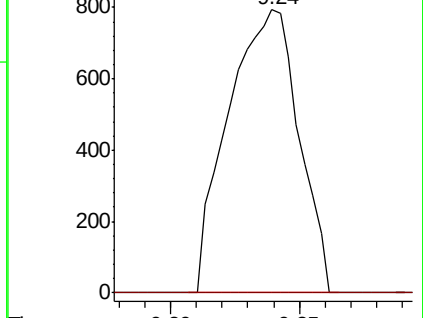
63 100

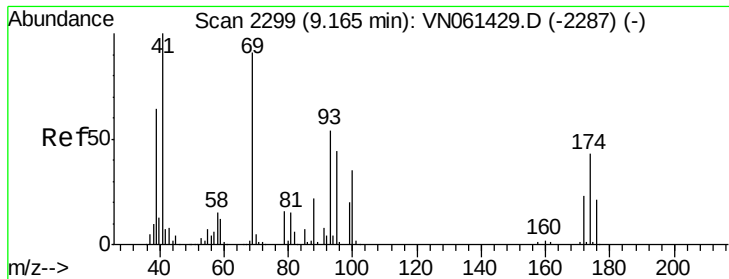
65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN061429.D (-2251) (-)

Ion 64.90 (64.60 to 65.60): VN061429.D (-2251) (-)

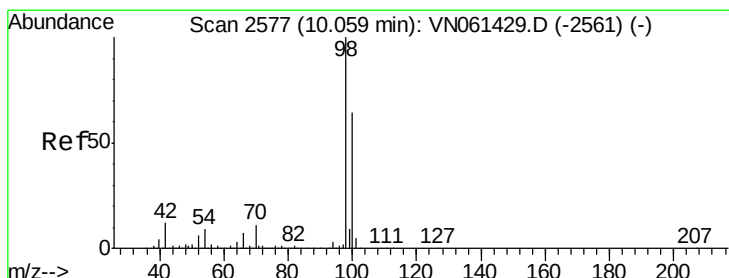
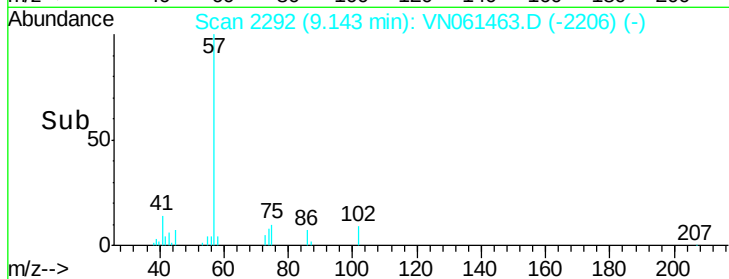
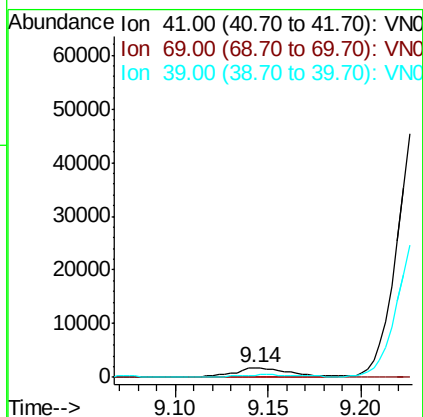
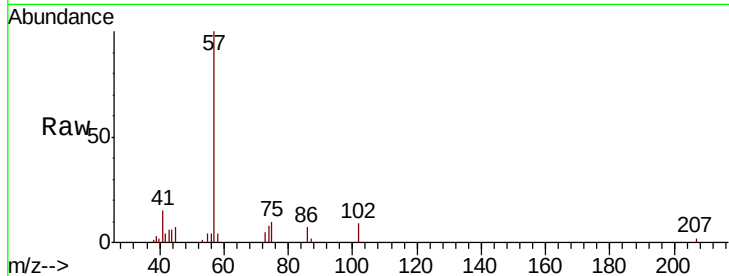




#48
Methvl methacrylate
Concen: 1.178 ug/l
RT: 9.14 min Scan# 2292
Delta R.T. -0.02 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

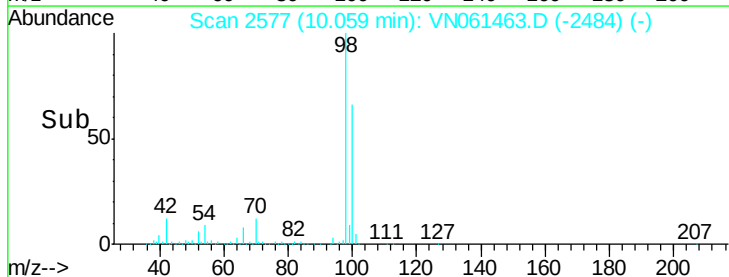
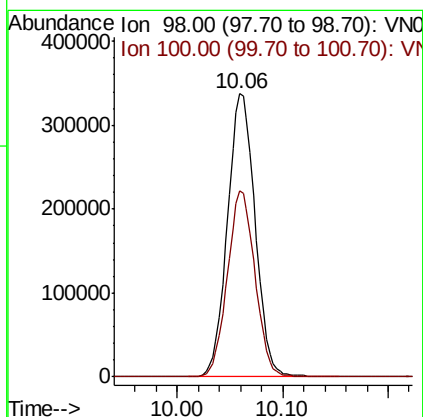
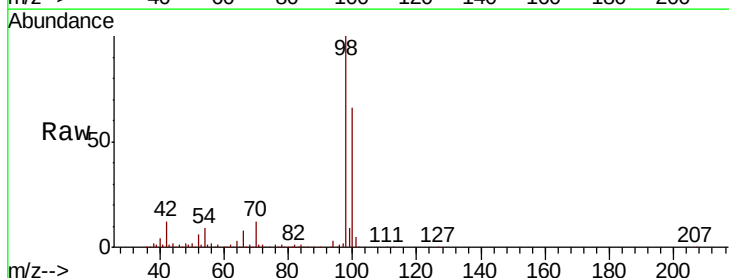
Instrument :
MSVOA_N
ClientSampled :

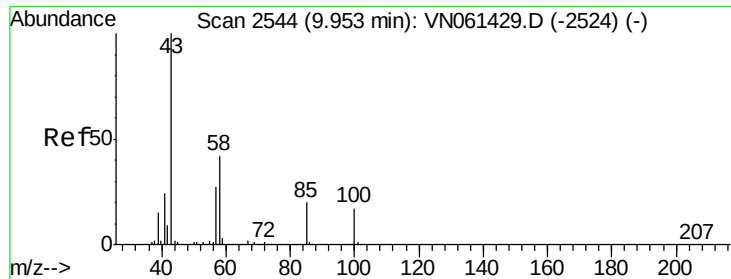
Tot Ion: 41 Resp: 3837
Ion Ratio Lower Upper
41 100
69 0.0 75.3 112.9#
39 0.0 52.6 79.0#



#50
Toluene-d8
Concen: 52.892 ug/l
RT: 10.06 min Scan# 2577
Delta R.T. -0.00 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

Tgt Ion: 98 Resp: 612734
Ion Ratio Lower Upper
98 100
100 65.6 51.8 77.8

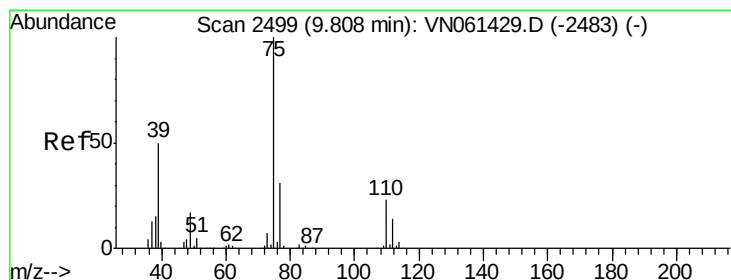
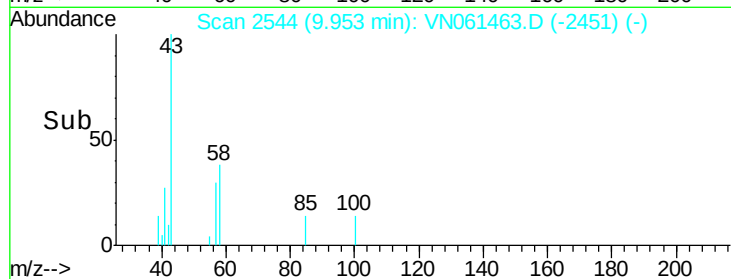
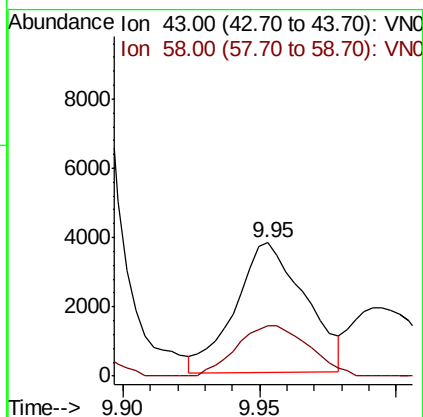
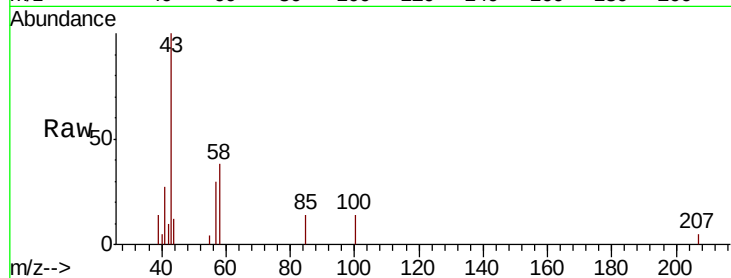




#51
4-Methyl-2-Pentanone
Concen: 1.731 ug/l
RT: 9.95 min Scan# 2544
Delta R.T. -0.00 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

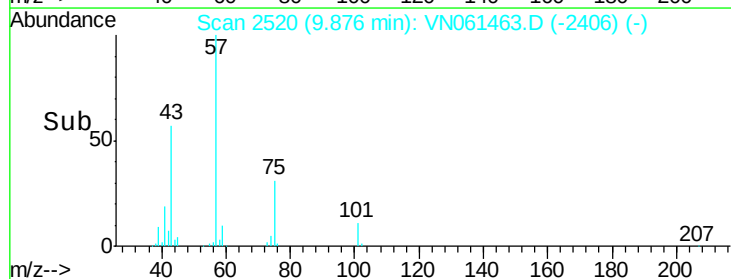
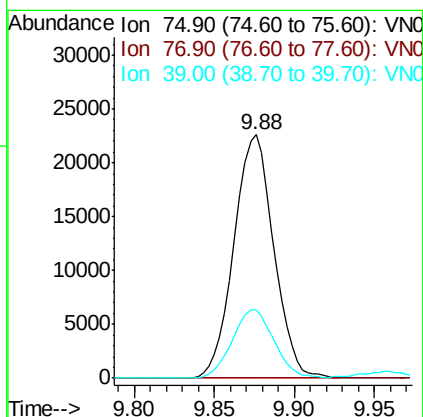
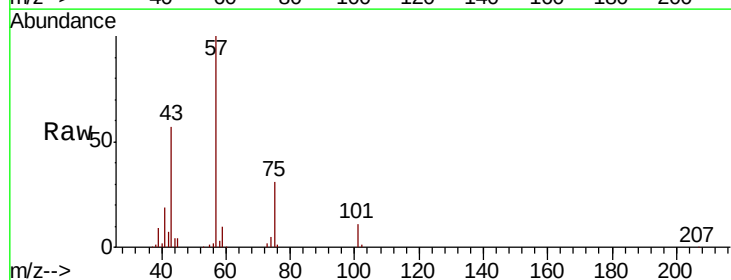
Instrument :
MSVOA_N
ClientSampled :

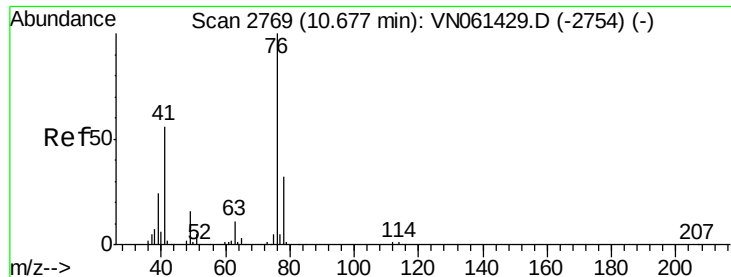
Tot Ion: 43 Resp: 6649
Ion Ratio Lower Upper
43 100
58 40.3 33.4 50.2



#54
cis-1,3-Dichloropropene
Concen: 6.619 ug/l
RT: 9.88 min Scan# 2520
Delta R.T. 0.07 min
Lab File: VN061463.D
Acq: 19 May 2020 6:33

Tgt Ion: 75 Resp: 38305
Ion Ratio Lower Upper
75 100
77 0.0 24.8 37.2#
39 28.1 39.8 59.6#

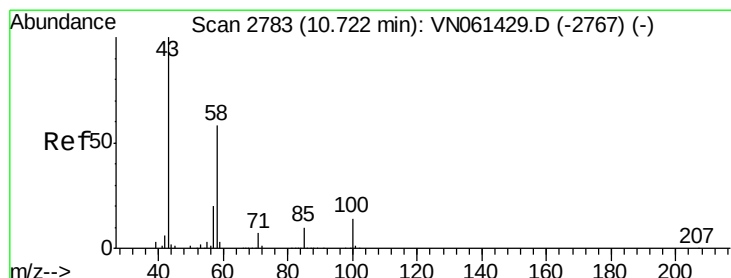
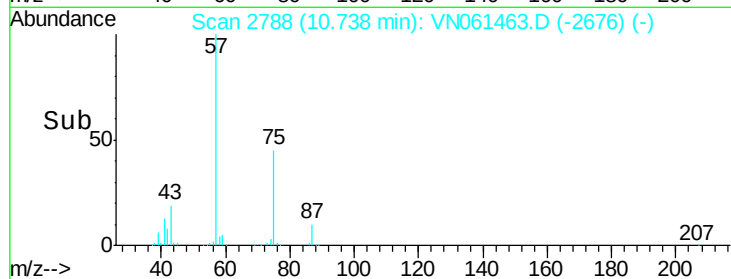
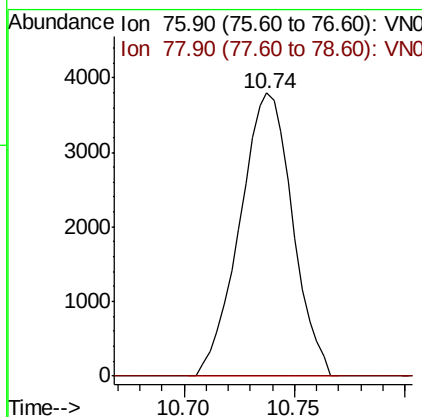
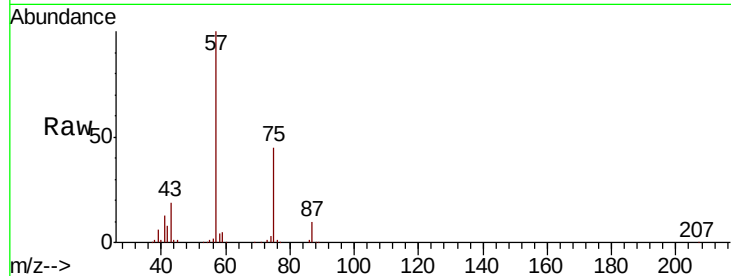




#57
 1,3-Dichloropropane
 Concen: 1.117 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.06 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

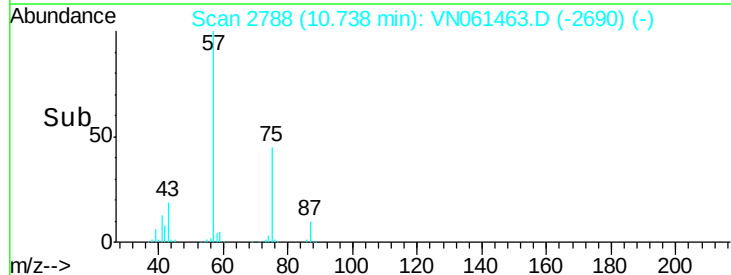
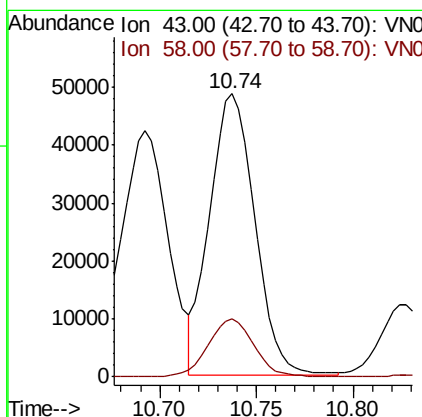
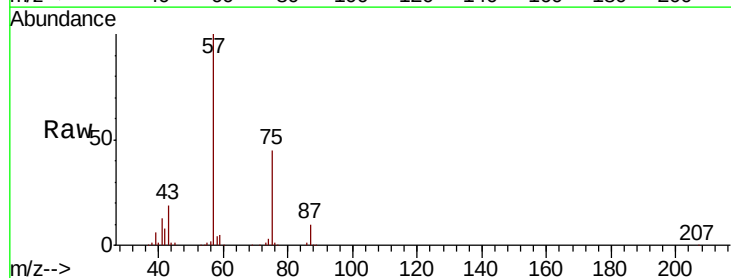
Instrument :
 MSVOA_N
 ClientSampled :

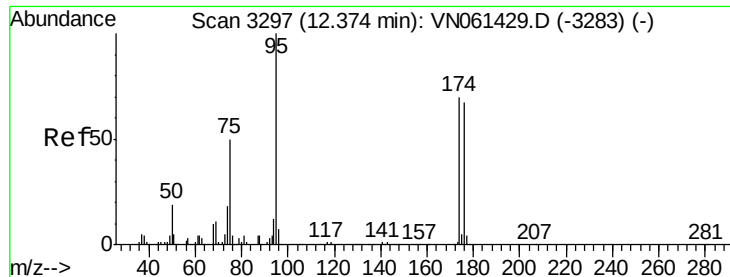
Tot Ion: 76 Resp: 6296
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



#59
 2-Hexanone
 Concen: 28.386 ug/l
 RT: 10.74 min Scan# 2788
 Delta R.T. 0.02 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

Tgt Ion: 43 Resp: 78887
 Ion Ratio Lower Upper
 43 100
 58 20.9 29.2 87.6#

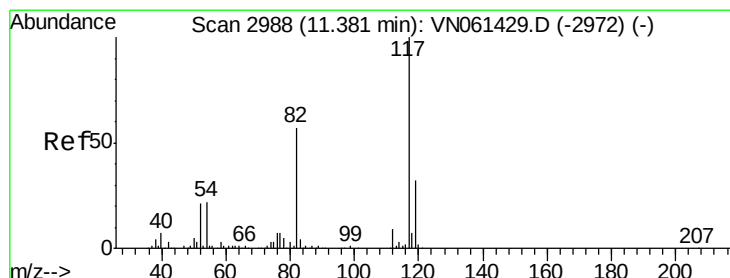
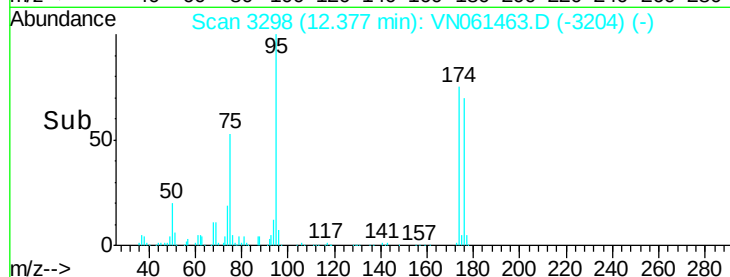
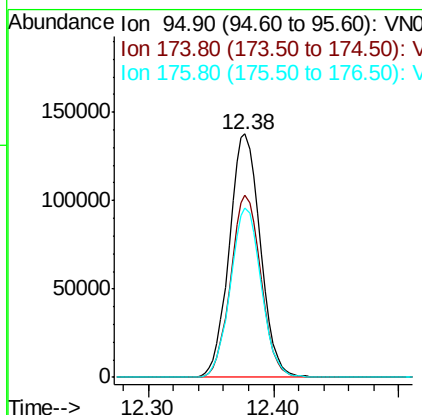
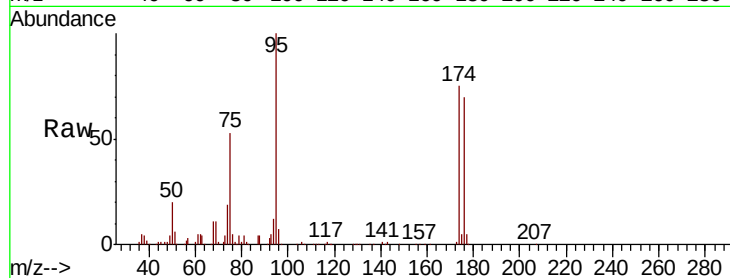




#62
 4-Bromofluorobenzene
 Concen: 54.610 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.00 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

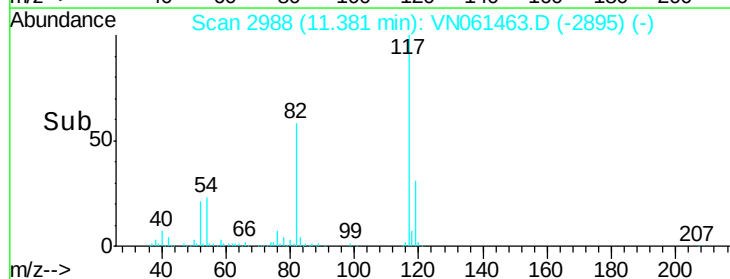
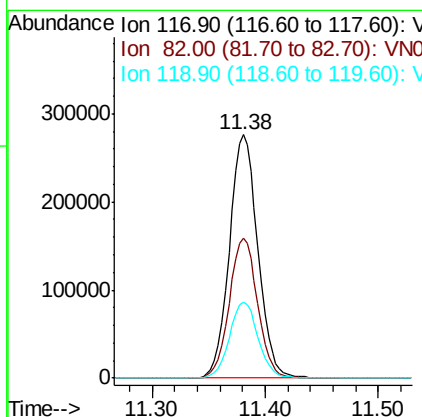
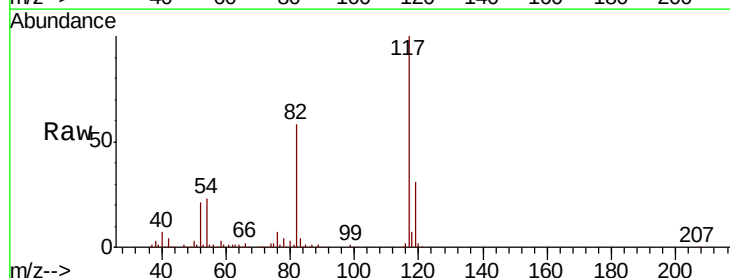
Instrument :
 MSVOA_N
 ClientSampleId :

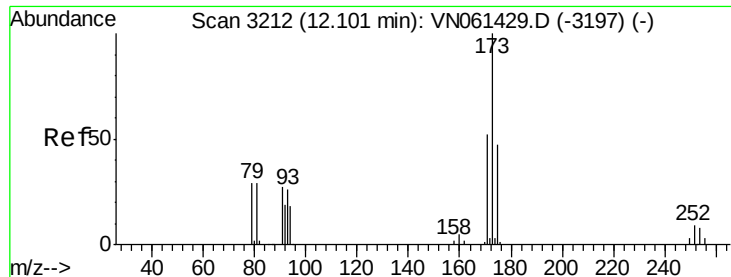
Tot Ion	95	Resp	236358
Ion Ratio	100		
174	73.2	0.0	141.2
176	69.2	0.0	137.6



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.38 min Scan# 2988
 Delta R.T. -0.00 min
 Lab File: VN061463.D
 Acq: 19 May 2020 6:33

Tgt Ion	117	Resp	481985
Ion Ratio	100		
82	57.7	45.2	67.8
119	31.4	25.3	37.9





#71

Bromoform

Concen: 2.535 ug/l

RT: 12.37 min Scan# 3297

Delta R.T. 0.27 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

ClientSampled :

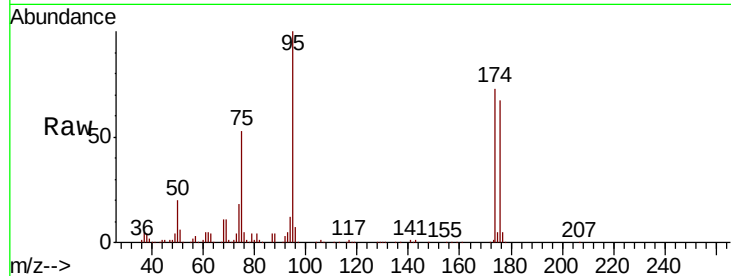
Tot Ion:173 Resp: 1471

Ion Ratio Lower Upper

173 100

175 727.3 23.9 71.8#

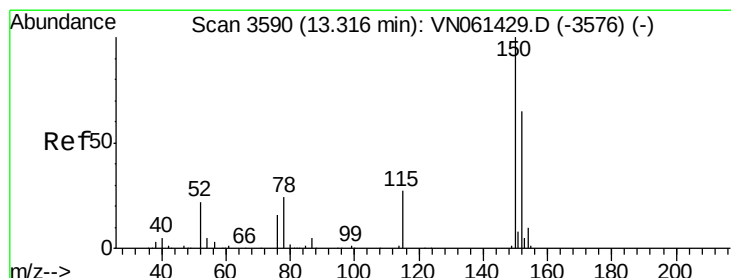
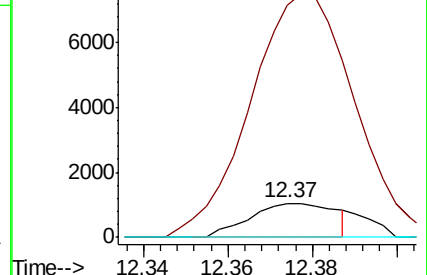
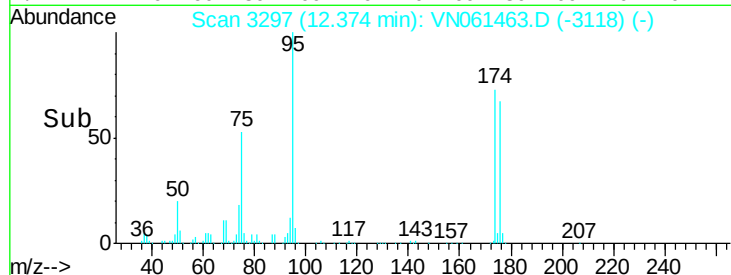
254 0.0 0.0 0.0



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: VN061463.D

Acq: 19 May 2020 6:33

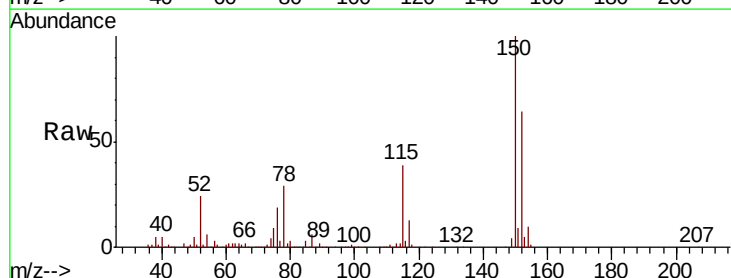
Tgt Ion:152 Resp: 214303

Ion Ratio Lower Upper

152 100

115 62.0 30.9 92.5

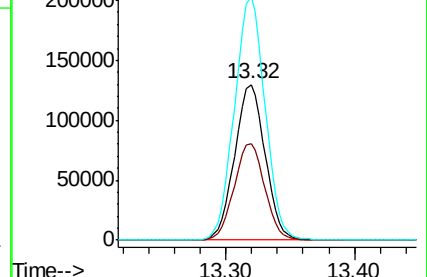
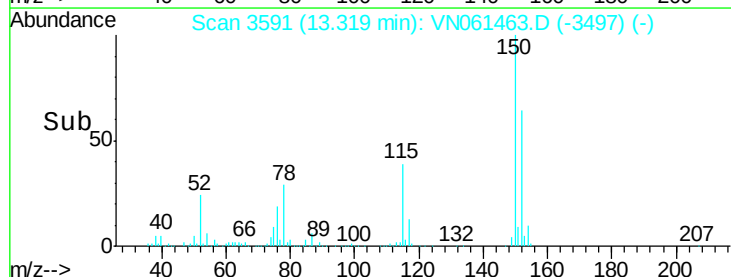
150 156.3 0.0 349.2

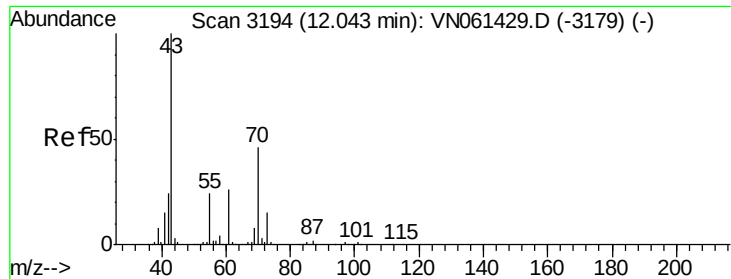


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.699 ug/l

RT: 12.01 min Scan# 3183

Delta R.T. -0.04 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4400

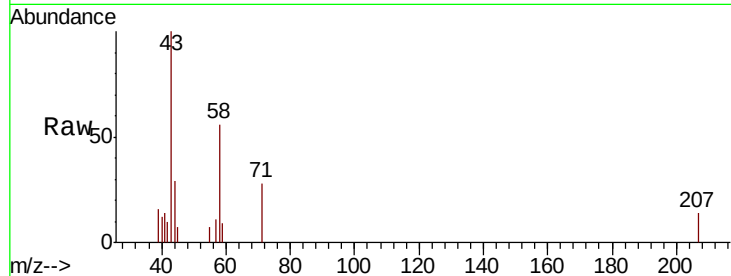
Ion Ratio Lower Upper

43 100

70 0.0 37.0 55.4#

55 3.0 19.5 29.3#

61 0.0 20.8 31.2#

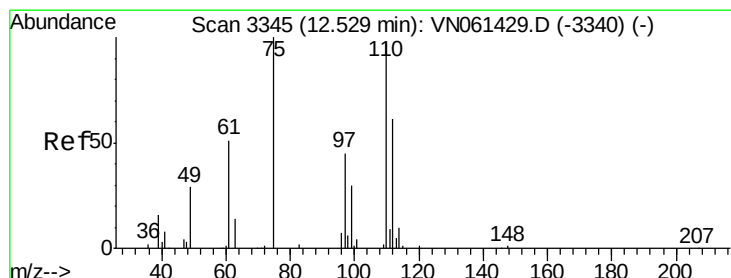
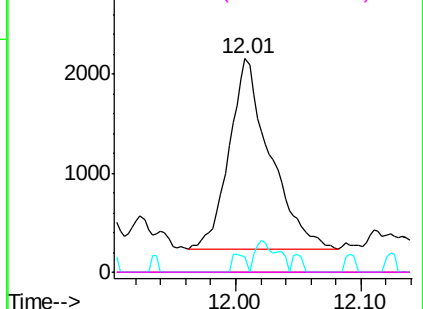
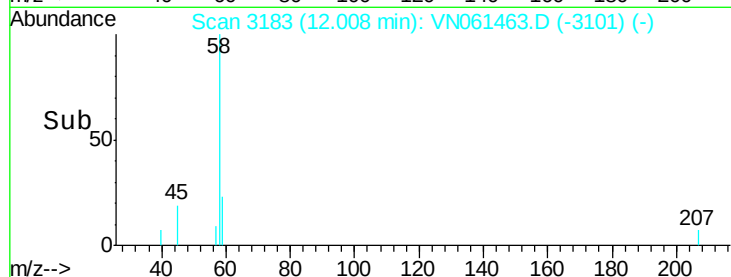


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.152 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061463.D

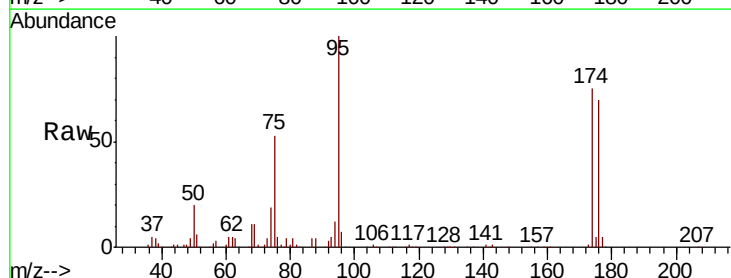
Acq: 19 May 2020 6:33

Tgt Ion: 75 Resp: 124856

Ion Ratio Lower Upper

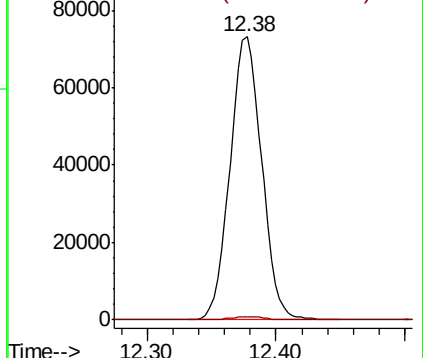
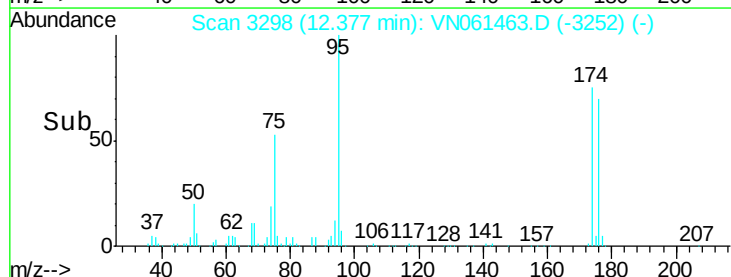
75 100

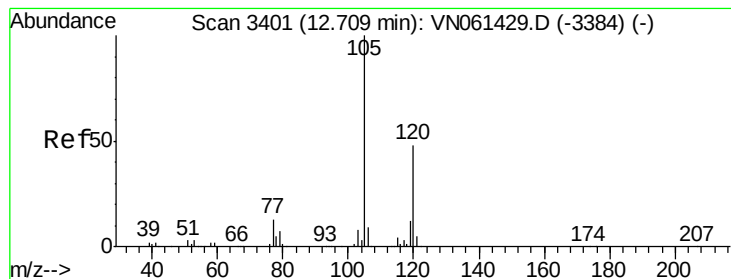
77 0.7 0.0 0.0#



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: 0.301 ug/l

RT: 12.71 min Scan# 3400

Delta R.T. -0.00 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Instrument :

MSVOA_N

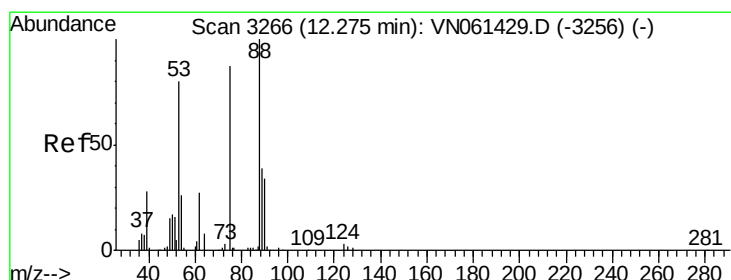
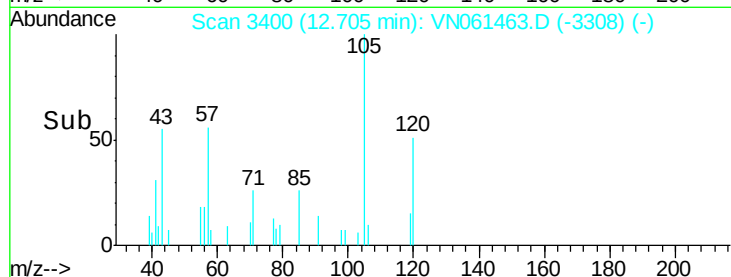
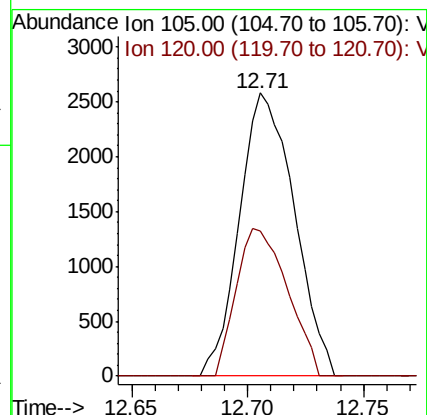
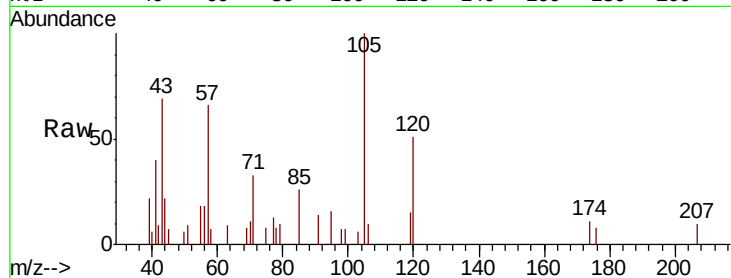
ClientSampleId :

Tot Ion:105 Resp: 4243

Ion Ratio Lower Upper

105 100

120 48.7 24.1 72.4



#81

trans-1,4-Dichloro-2-butene

Concen: 72.028 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061463.D

Acq: 19 May 2020 6:33

Tgt Ion: 75 Resp: 124856

Ion Ratio Lower Upper

75 100

53 0.0 75.2 112.8#

89 0.0 38.2 57.4#

