

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041620\
 Data File : VN061029.D
 Acq On : 16 Apr 2020 21:59
 Operator : JC/MD
 Sample : L2304-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Apr 17 04:02:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041620W.M
 Quant Title : SW846 8260
 QLast Update : Fri Apr 17 03:49:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	163493	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.56	114	279290	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	266041	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	122113	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	110729	52.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.88%	
35) Dibromofluoromethane	7.56	113	83790	51.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.74%	
50) Toluene-d8	10.08	98	349147	56.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.30%	
62) 4-Bromofluorobenzene	12.39	95	133158	55.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.24%	

Target Compounds

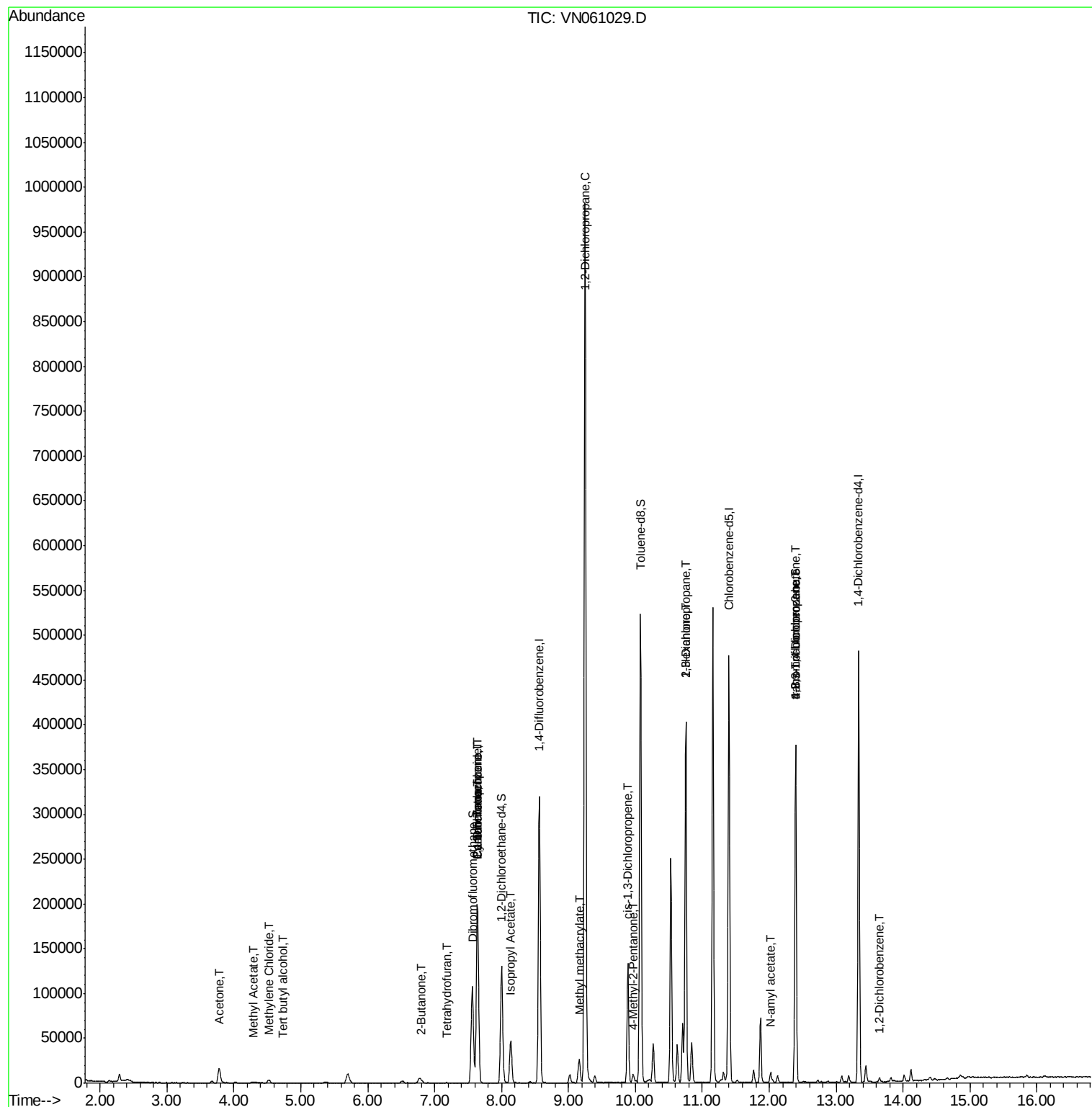
						Qvalue
11) Tert butyl alcohol	4.73	59	221	0.595	ug/l #	73
16) Acetone	3.78	43	27849	30.248	ug/l	98
18) Methyl Acetate	4.29	43	2027	0.702	ug/l #	54
20) Methylene Chloride	4.52	84	2433	1.210	ug/l	93
25) 2-Butanone	6.81	43	4508	3.195	ug/l	97
29) Tetrahydrofuran	7.18	42	202	0.211	ug/l #	36
31) Cyclohexane	7.64	56	3726	0.956	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13601	4.719	ug/l #	45
38) Carbon Tetrachloride	7.64	117	15787	6.581	ug/l #	14
43) Isopropyl Acetate	8.14	43	57929	11.382	ug/l #	92
45) 1,2-Dichloropropane	9.25	63	1006	0.436	ug/l #	43
48) Methyl methacrylate	9.15	41	5722	2.544	ug/l #	34
51) 4-Methyl-2-Pentanone	9.97	43	7317	2.494	ug/l	95
54) cis-1,3-Dichloropropene	9.89	75	23489	6.589	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	4080	1.178	ug/l #	43
59) 2-Hexanone	10.75	43	61878	29.244	ug/l #	53
74) N-amyl acetate	12.02	43	8774	1.929	ug/l #	49
76) 1,2,3-Trichloropropane	12.39	75	68163	25.377	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.39	75	68163	62.595	ug/l #	12
91) 1,2-Dichlorobenzene	13.64	146	1304	0.336	ug/l	96

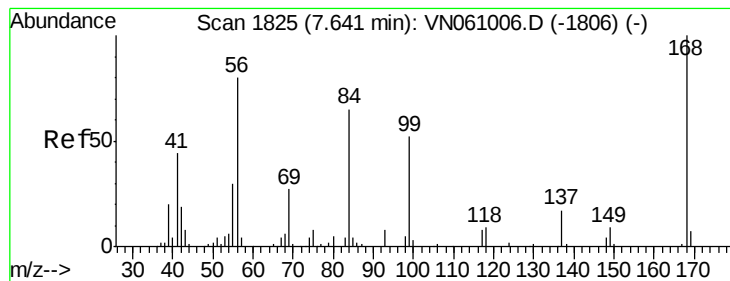
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Apr 17 03:49:39 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

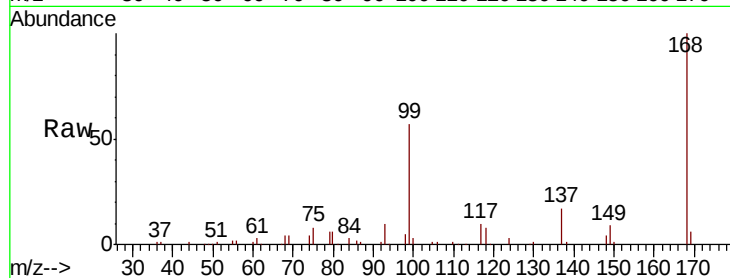
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 163493

Ion Ratio Lower Upper

168 100

99 56.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

60000

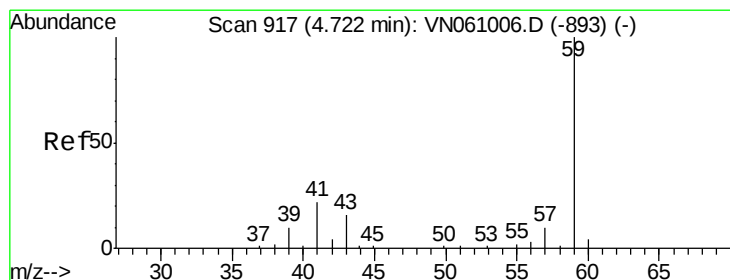
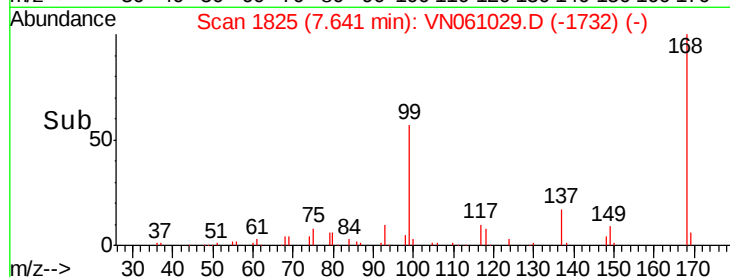
40000

20000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.595 ug/l

RT: 4.73 min Scan# 918

Delta R.T. 0.00 min

Lab File: VN061029.D

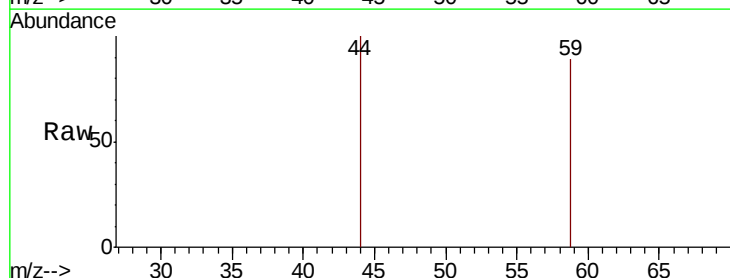
Acq: 16 Apr 2020 21:59

Tgt Ion: 59 Resp: 221

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

250

200

150

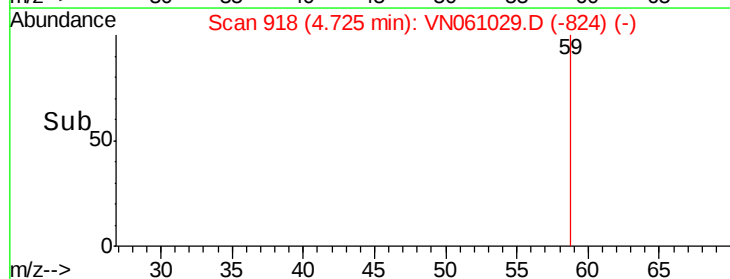
100

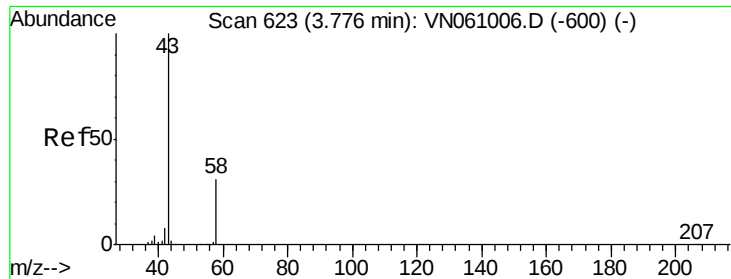
50

0

4.71 4.72 4.73 4.74 4.75

Time-->





#16

Acetone

Concen: 30.248 ug/l

RT: 3.78 min Scan# 624

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

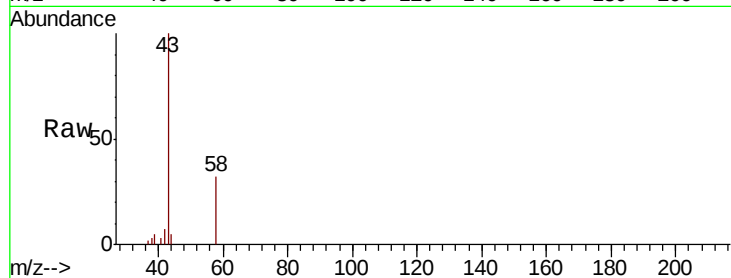
ClientSampled :

Tot Ion: 43 Resp: 27849

Ion Ratio Lower Upper

43 100

58 31.9 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-600) (-)

Ion 58.00 (57.70 to 58.70): VN061006.D (-600) (-)

12000

10000

8000

6000

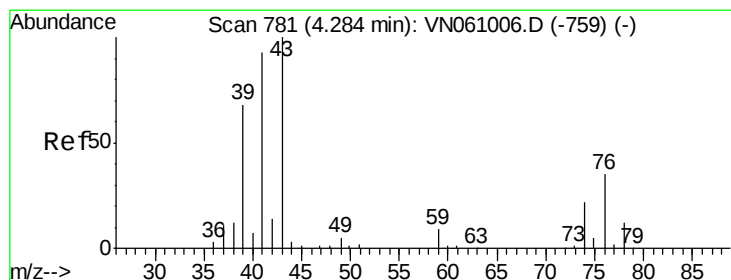
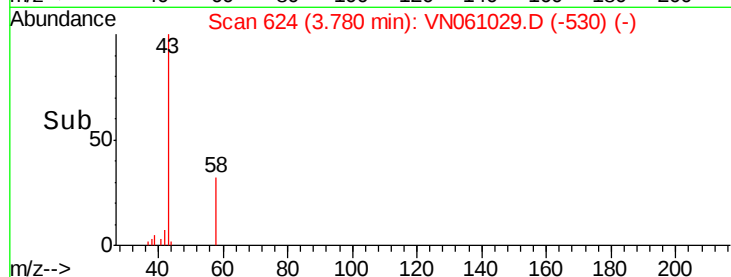
4000

2000

0

3.70 3.78 3.90

Time-->



#18

Methyl Acetate

Concen: 0.702 ug/l

RT: 4.29 min Scan# 784

Delta R.T. 0.01 min

Lab File: VN061029.D

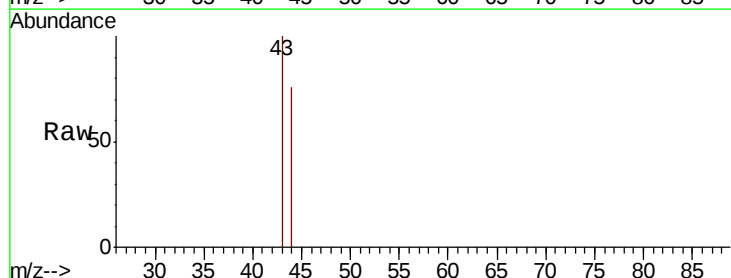
Acq: 16 Apr 2020 21:59

Tgt Ion: 43 Resp: 2027

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.0#



Abundance Ion 43.00 (42.70 to 43.70): VN061006.D (-759) (-)

Ion 74.00 (73.70 to 74.70): VN061006.D (-759) (-)

600

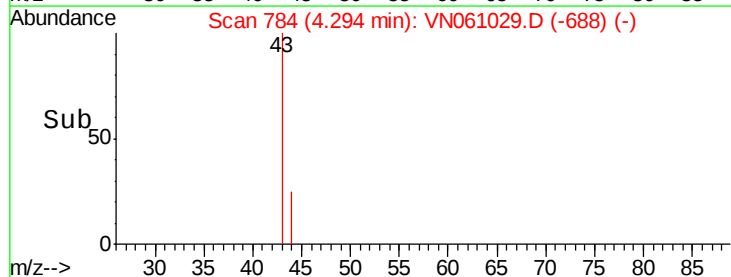
400

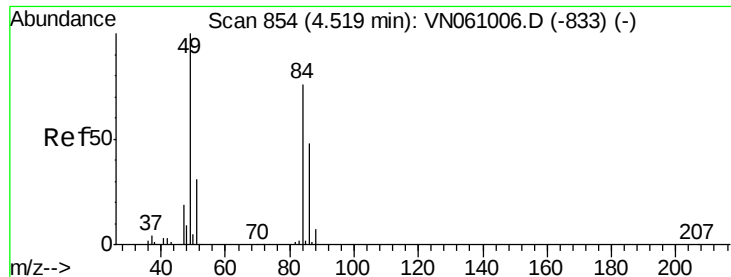
200

0

4.20 4.25 4.30 4.35

Time-->





#20

Methylene Chloride

Concen: 1.210 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 2433

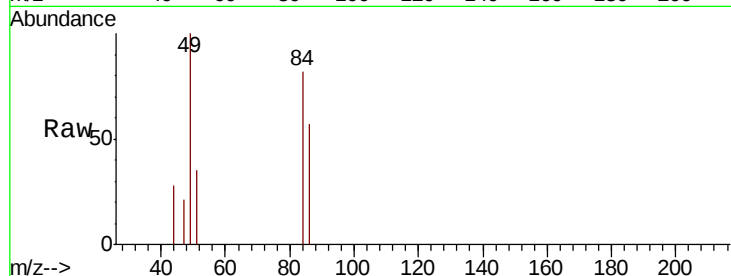
Ion Ratio Lower Upper

84 100

49 121.9 105.8 158.6

51 42.3 32.4 48.6

86 69.4 51.1 76.7

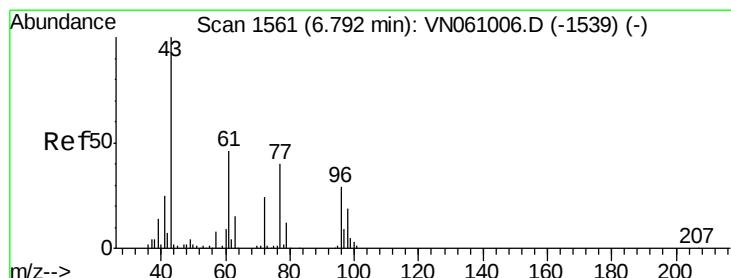
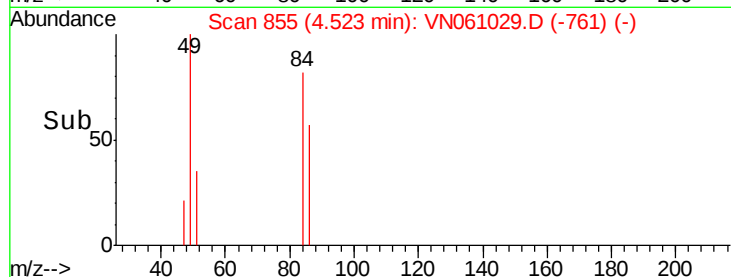
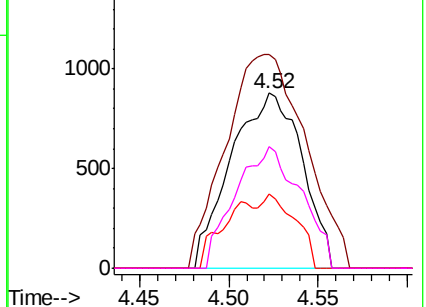


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 3.195 ug/l

RT: 6.81 min Scan# 1565

Delta R.T. 0.01 min

Lab File: VN061029.D

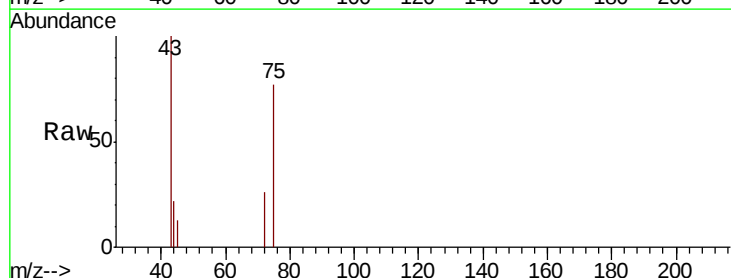
Acq: 16 Apr 2020 21:59

Tgt Ion: 43 Resp: 4508

Ion Ratio Lower Upper

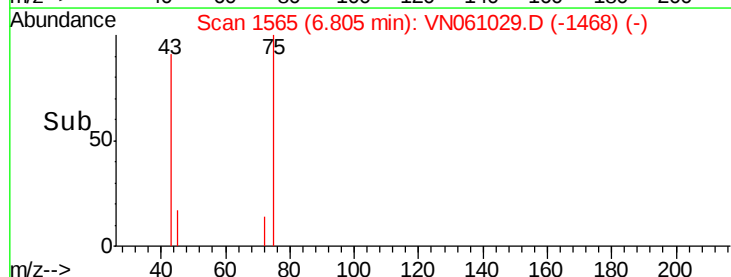
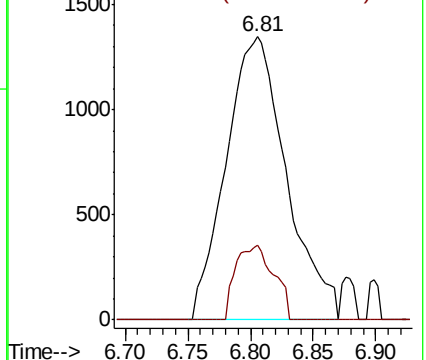
43 100

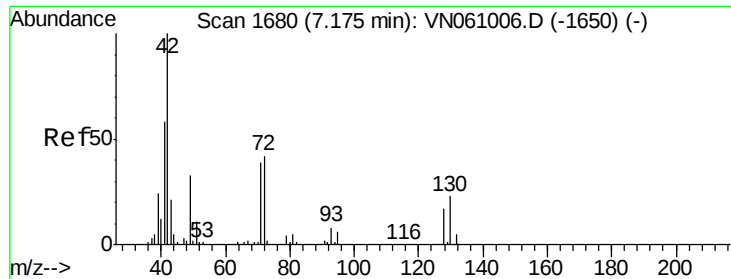
72 26.2 19.6 29.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

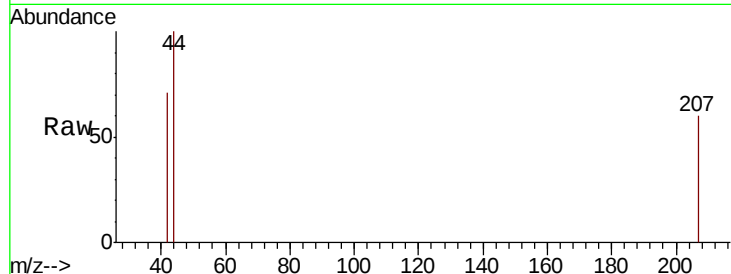




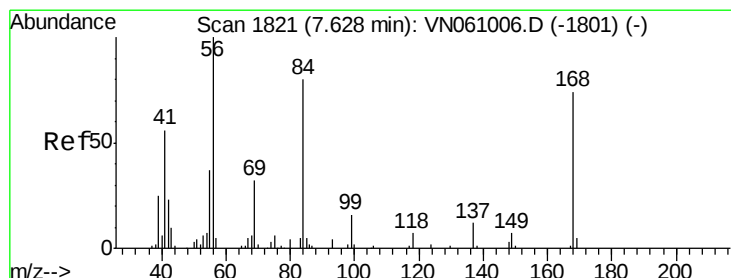
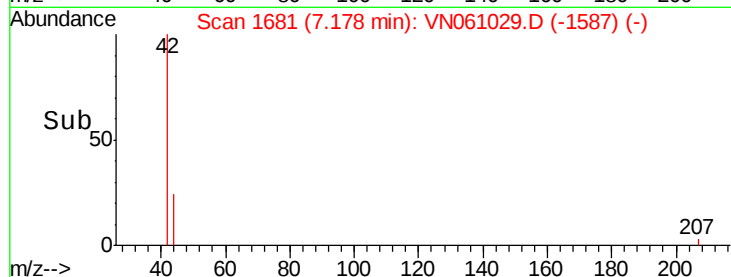
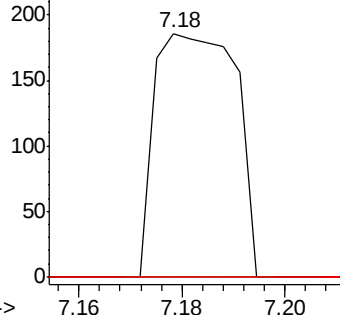
#29
Tetrahydrofuran
Concen: 0.211 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN061029.D
Acq: 16 Apr 2020 21:59

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 42 Resp: 202
Ion Ratio Lower Upper
42 100
72 0.0 32.1 48.1#
71 0.0 30.5 45.7#

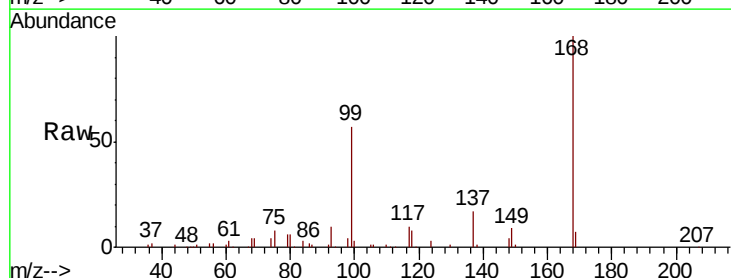


Abundance Ion 42.00 (41.70 to 42.70): VN0
Ion 72.00 (71.70 to 72.70): VN0
Ion 71.00 (70.70 to 71.70): VN0

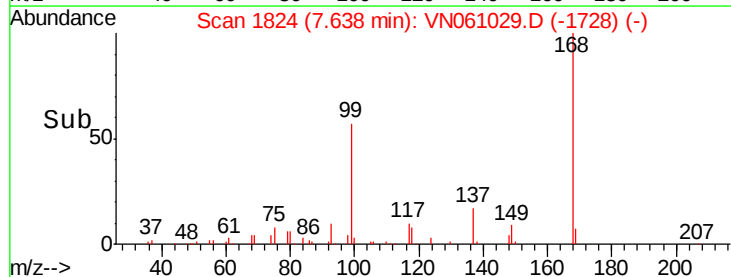
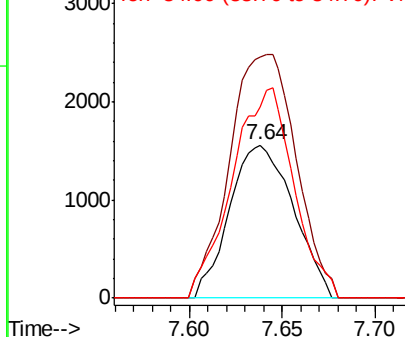


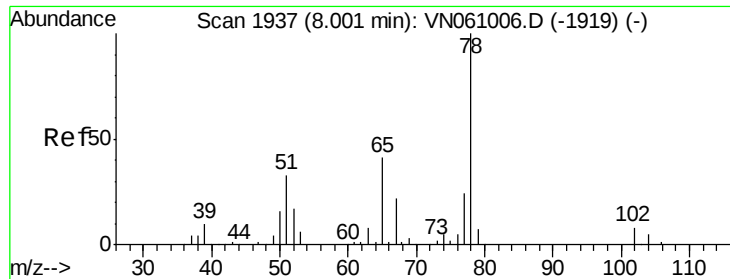
#31
Cyclohexane
Concen: 0.956 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN061029.D
Acq: 16 Apr 2020 21:59

Tgt Ion: 56 Resp: 3726
Ion Ratio Lower Upper
56 100
69 157.3 25.6 38.4#
84 125.1 63.4 95.2#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 52.935 ug/l

RT: 8.00 min Scan# 1937

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

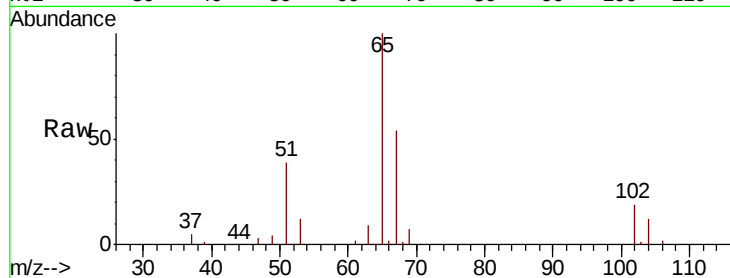
ClientSampled :

Tot Ion: 65 Resp: 110729

Ion Ratio Lower Upper

65 100

67 53.3 0.0 107.0



Abundance Ion 64.90 (64.60 to 65.60): VN061006.D (-1919) (-)

Ion 66.90 (66.60 to 67.60): VN061006.D (-1919) (-)

8.00

50000

40000

30000

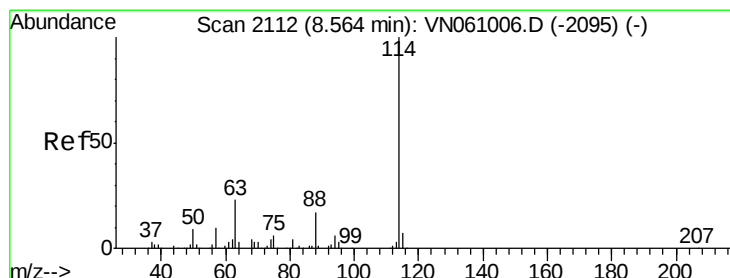
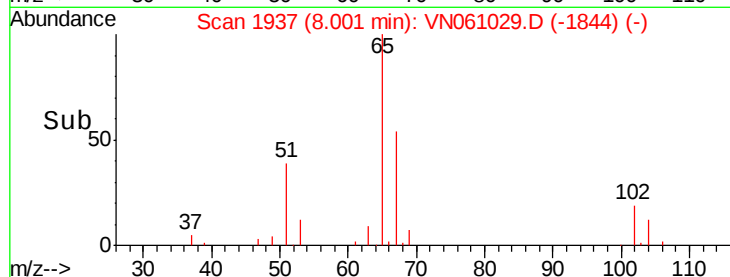
20000

10000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.56 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

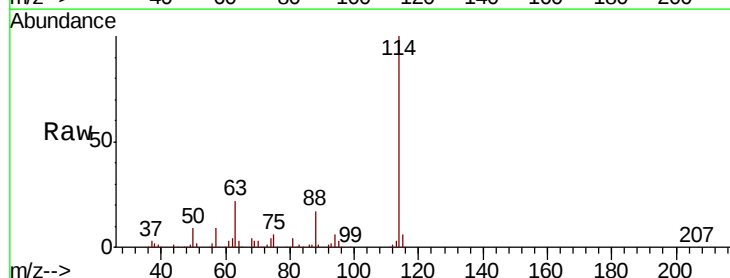
Tgt Ion: 114 Resp: 279290

Ion Ratio Lower Upper

114 100

63 22.3 0.0 46.2

88 16.5 0.0 33.4



Abundance Ion 113.90 (113.60 to 114.60): VN061006.D (-2095) (-)

Ion 63.00 (62.70 to 63.70): VN061006.D (-2095) (-)

Ion 87.90 (87.60 to 88.60): VN061006.D (-2095) (-)

8.56

150000

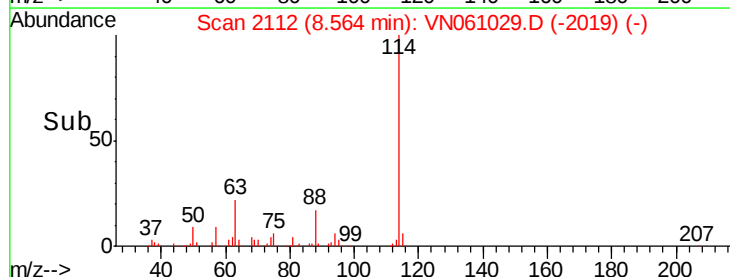
100000

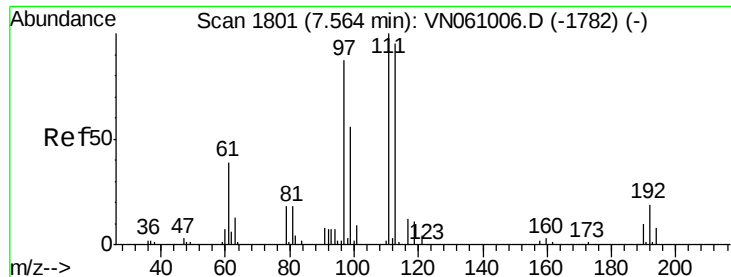
50000

0

8.50 8.60

Time-->

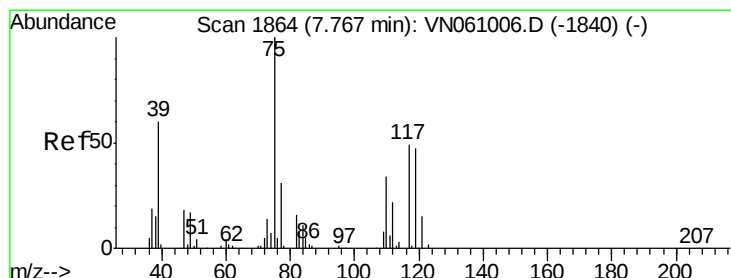
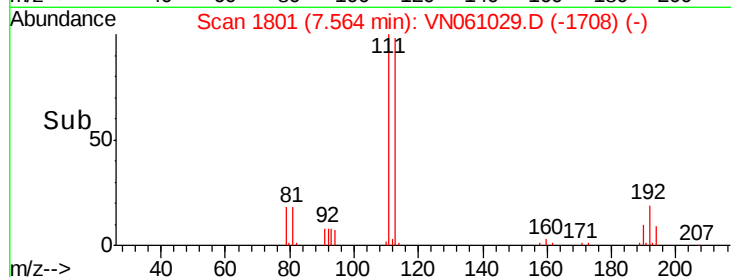
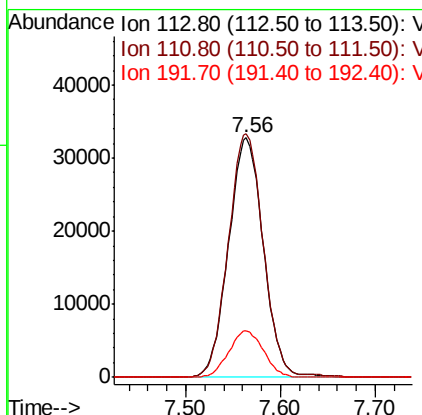
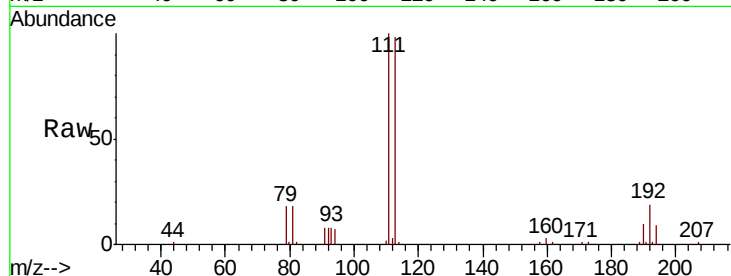




#35
 Dibromofluoromethane
 Concen: 51.373 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. 0.00 min
 Lab File: VN061029.D
 Acq: 16 Apr 2020 21:59

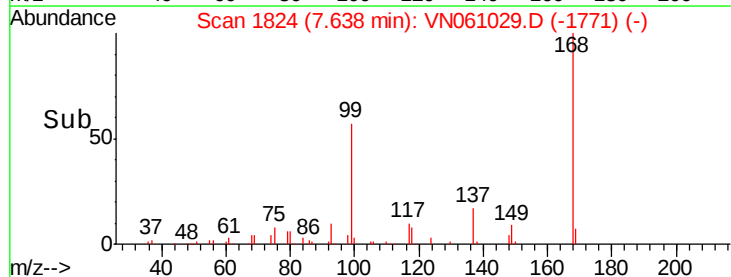
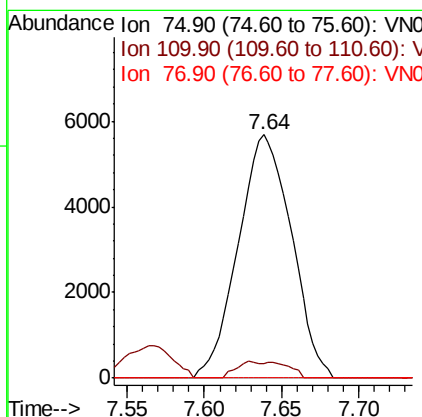
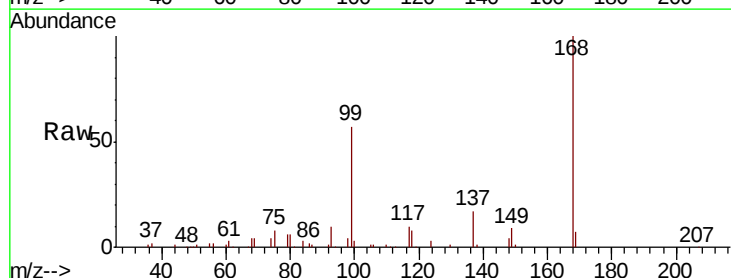
Instrument :
 MSVOA_N
 ClientSampled :

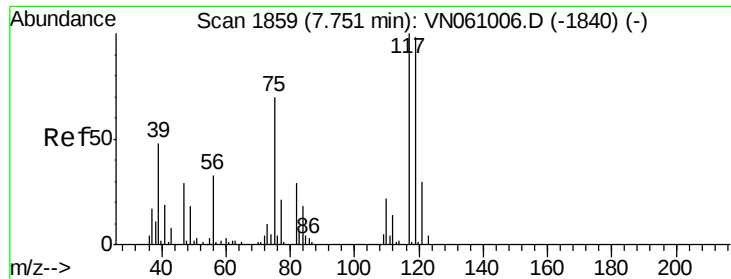
Tot Ion:113 Resp: 83790
 Ion Ratio Lower Upper
 113 100
 111 102.2 83.4 125.2
 192 19.3 15.5 23.3



#36
 1,1-Dichloropropene
 Concen: 4.719 ug/l
 RT: 7.64 min Scan# 1824
 Delta R.T. -0.13 min
 Lab File: VN061029.D
 Acq: 16 Apr 2020 21:59

Tgt Ion: 75 Resp: 13601
 Ion Ratio Lower Upper
 75 100
 110 2.9 16.8 50.3#
 77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.581 ug/l

RT: 7.64 min Scan# 1824

Delta R.T. -0.11 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

ClientSampled :

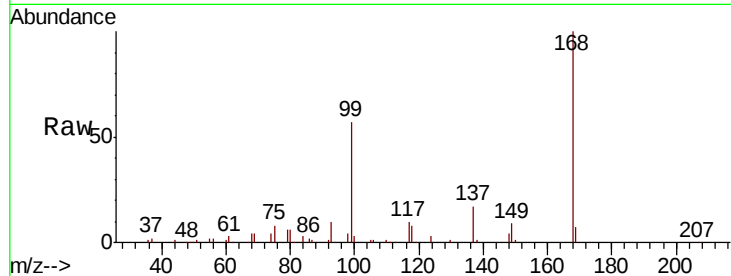
Tot Ion:117 Resp: 15787

Ion Ratio Lower Upper

117 100

119 4.0 78.1 117.1#

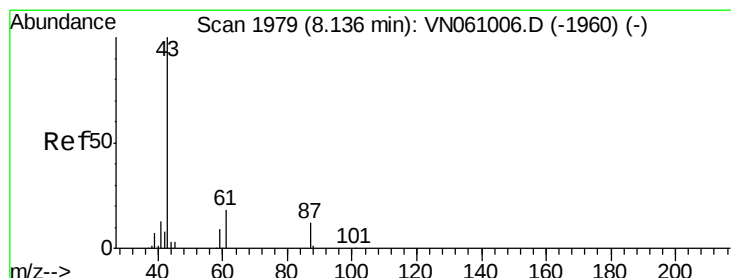
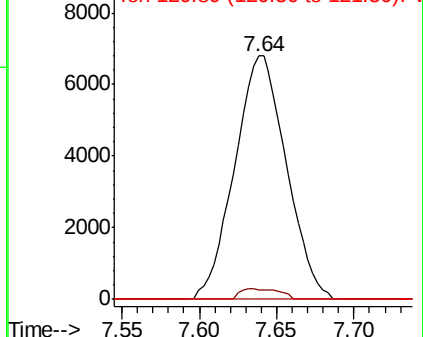
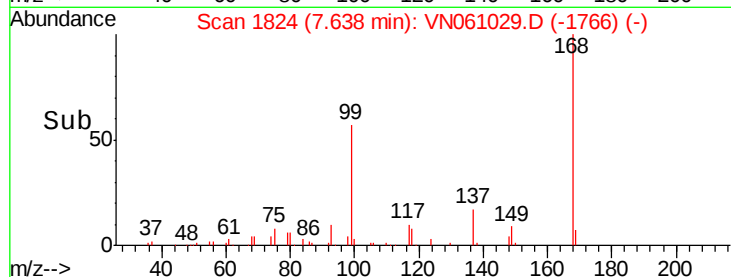
121 0.0 24.0 36.0#



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: 11.382 ug/l

RT: 8.14 min Scan# 1979

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

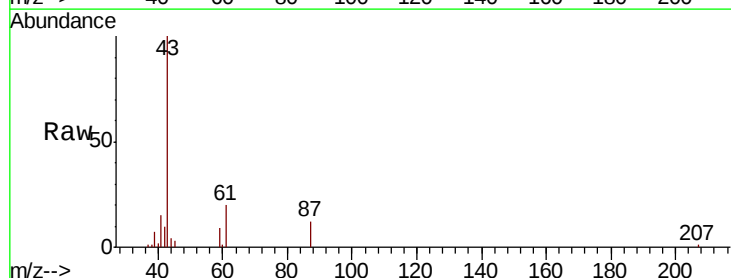
Tgt Ion: 43 Resp: 57929

Ion Ratio Lower Upper

43 100

61 19.7 20.3 30.5#

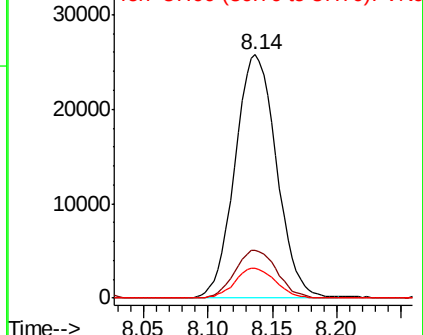
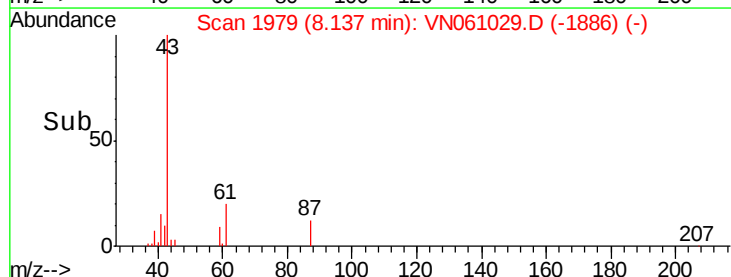
87 12.0 9.4 14.2

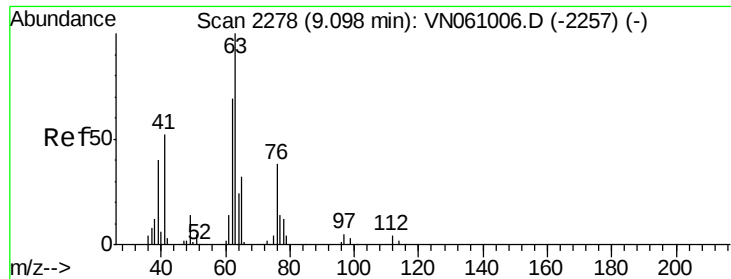


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.436 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

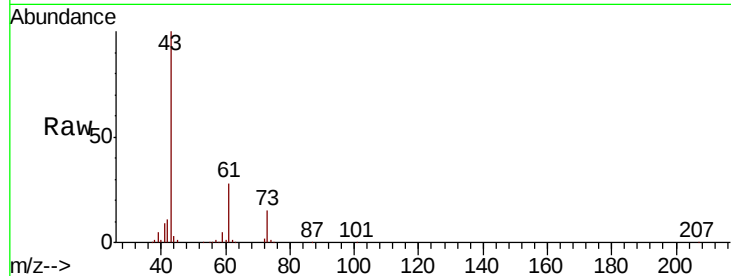
ClientSampleId :

Tot Ion: 63 Resp: 1006

Ion Ratio Lower Upper

63 100

65 0.0 25.2 37.8#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

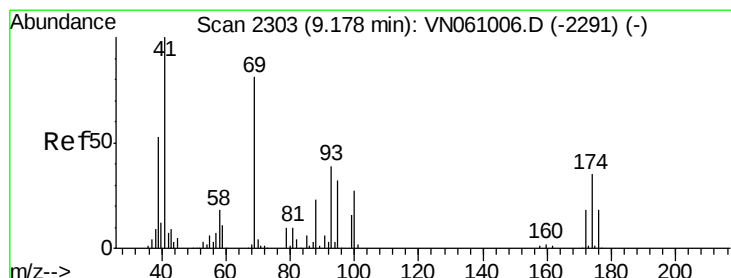
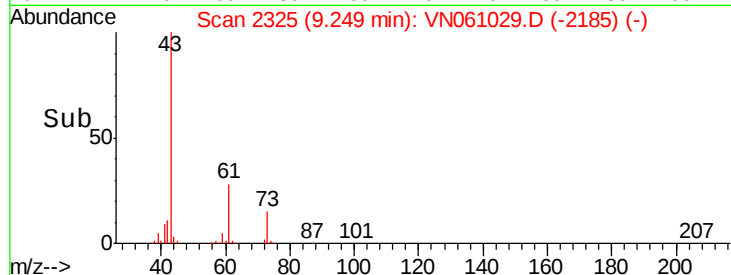
600

400

200

0

Time-->



#48

Methyl methacrylate

Concen: 2.544 ug/l

RT: 9.15 min Scan# 2295

Delta R.T. -0.03 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

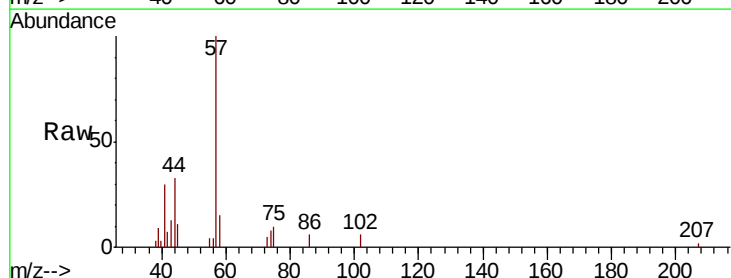
Tgt Ion: 41 Resp: 5722

Ion Ratio Lower Upper

41 100

69 0.0 65.3 97.9#

39 34.5 45.2 67.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

60000

50000

40000

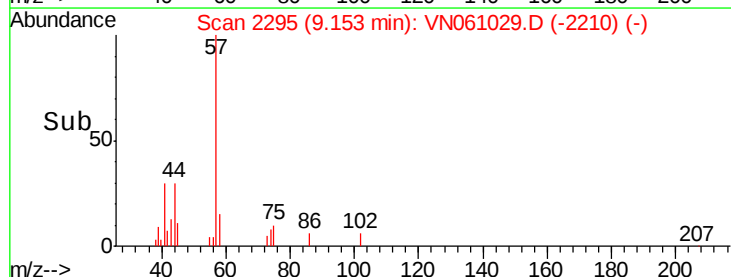
30000

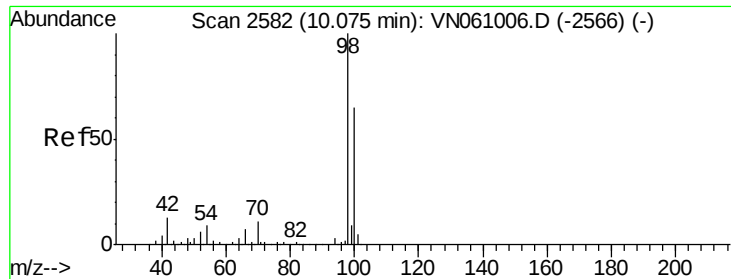
20000

10000

0

Time-->





#50

Toluene-d8

Concen: 56.649 ug/l

RT: 10.08 min Scan# 2582

Delta R.T. 0.00 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

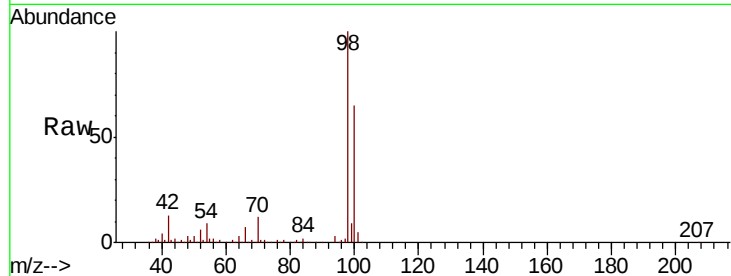
ClientSampleId :

Tot Ion: 98 Resp: 349147

Ion Ratio Lower Upper

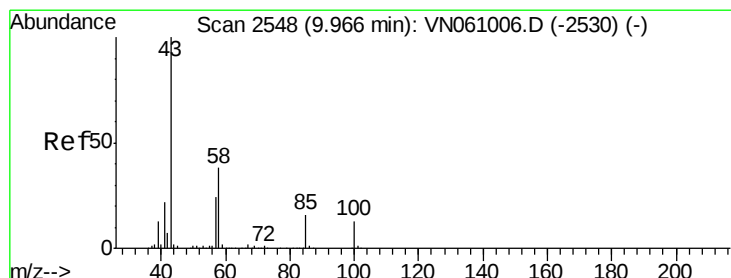
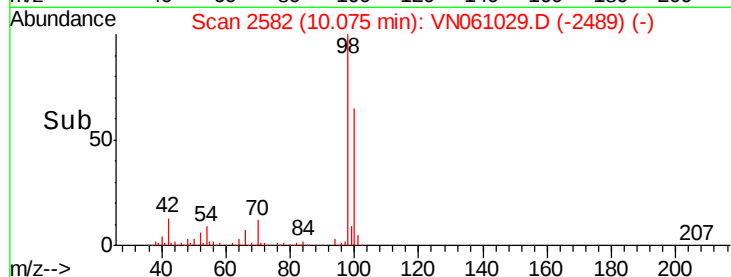
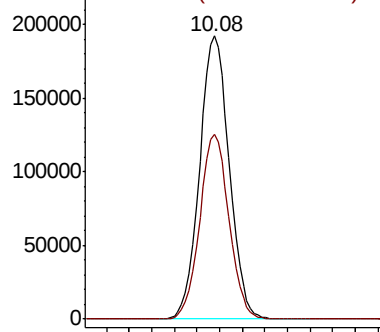
98 100

100 64.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 2.494 ug/l

RT: 9.97 min Scan# 2548

Delta R.T. 0.00 min

Lab File: VN061029.D

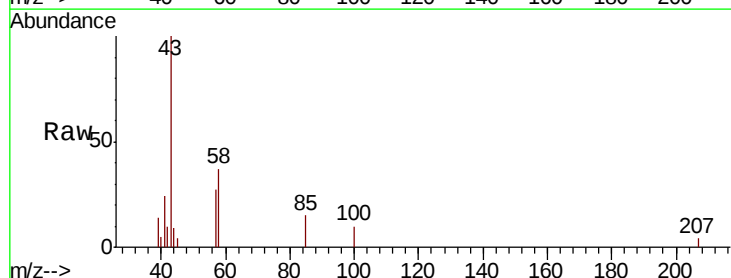
Acq: 16 Apr 2020 21:59

Tgt Ion: 43 Resp: 7317

Ion Ratio Lower Upper

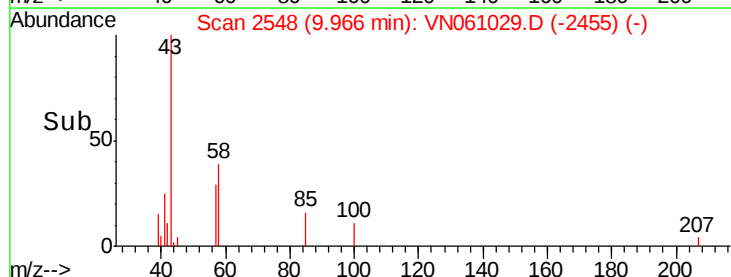
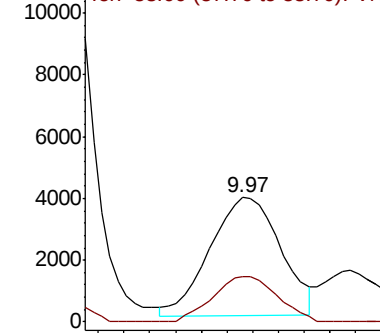
43 100

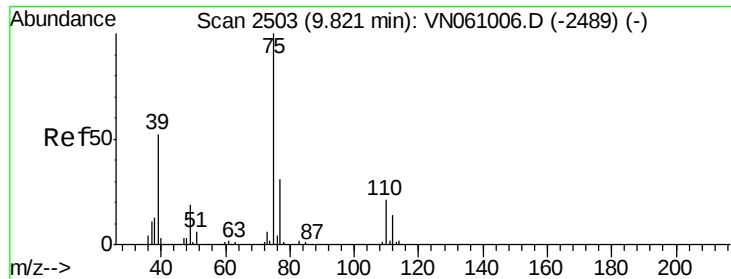
58 35.1 30.3 45.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



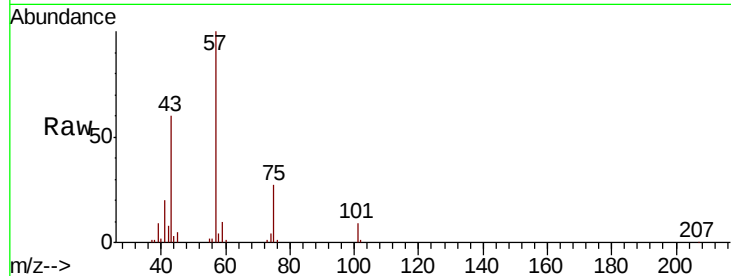


#54

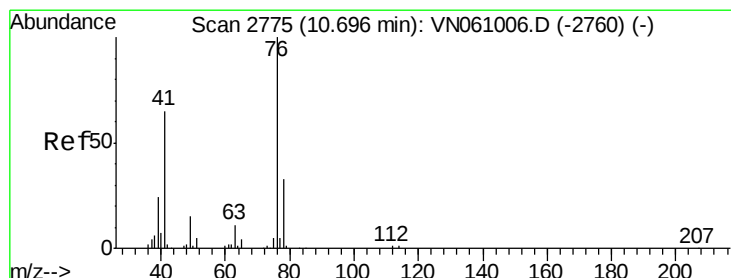
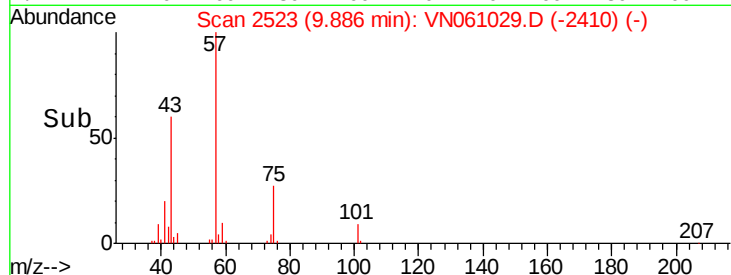
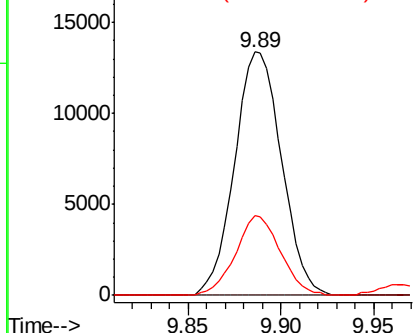
cis-1,3-Dichloropropene
 Concen: 6.589 ug/l
 RT: 9.89 min Scan# 2523
 Delta R.T. 0.06 min
 Lab File: VN061029.D
 Acq: 16 Apr 2020 21:59

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.0	37.6#
39	32.7	41.4	62.2#



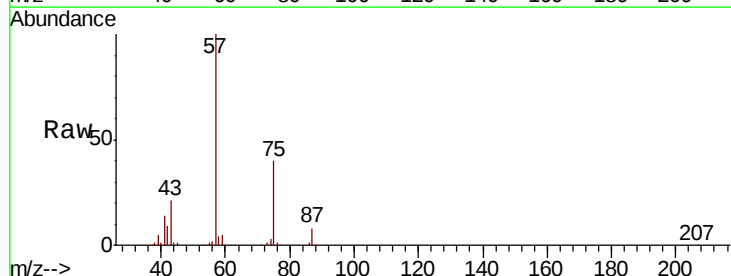
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



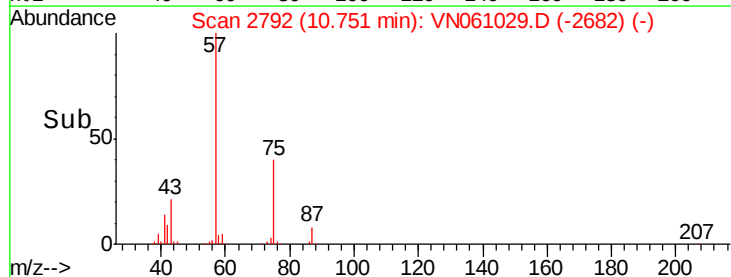
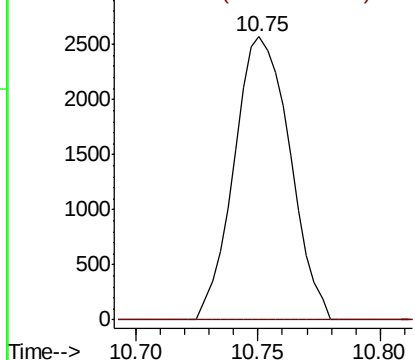
#57

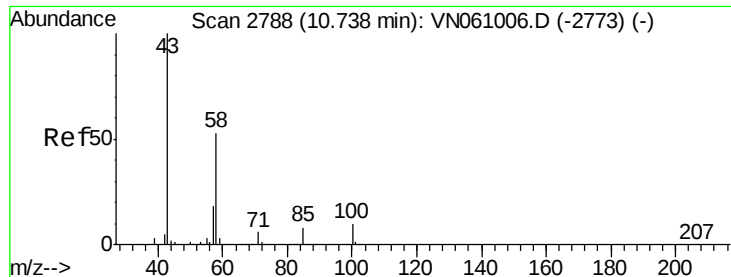
1,3-Dichloropropane
 Concen: 1.178 ug/l
 RT: 10.75 min Scan# 2792
 Delta R.T. 0.05 min
 Lab File: VN061029.D
 Acq: 16 Apr 2020 21:59

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.4	38.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0
 Ion 77.90 (77.60 to 78.60): VN0

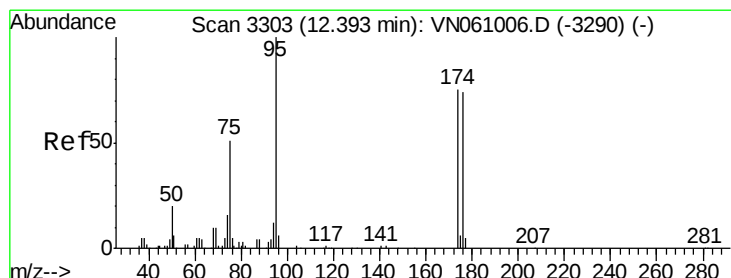
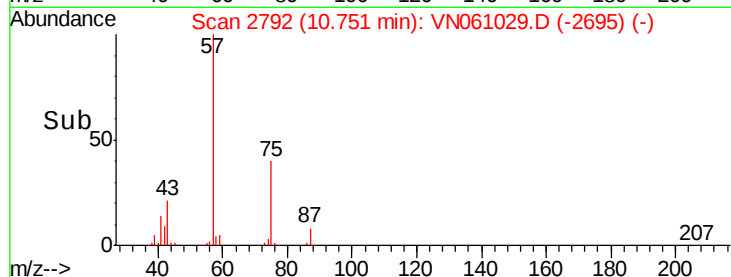
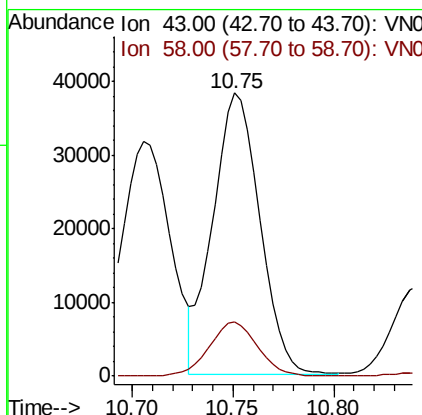
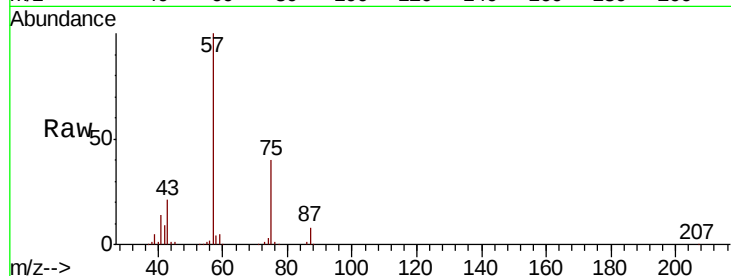




#59
2-Hexanone
Concen: 29.244 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.01 min
Lab File: VN061029.D
Acq: 16 Apr 2020 21:59

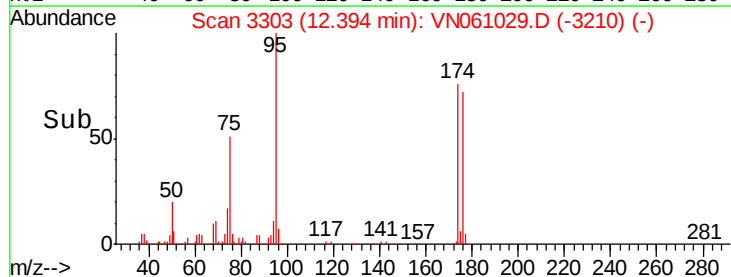
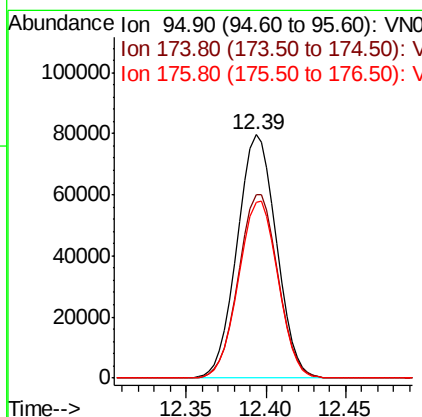
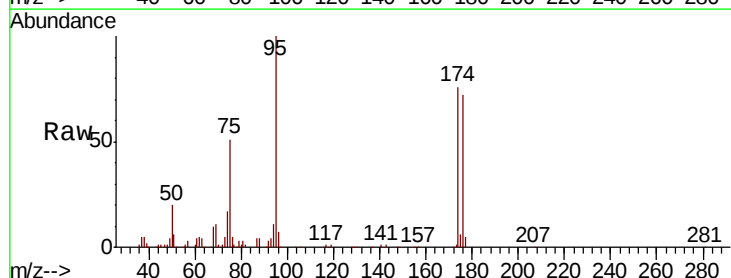
Instrument :
MSVOA_N
ClientSampled :

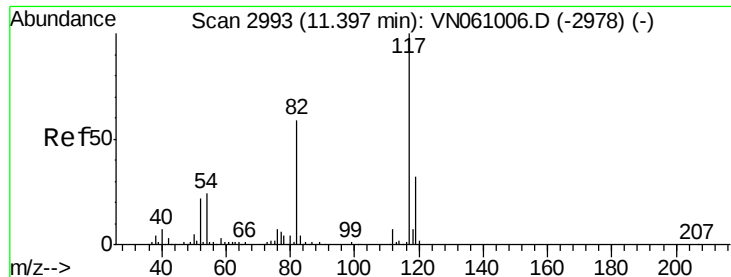
Tot Ion: 43 Resp: 61878
Ion Ratio Lower Upper
43 100
58 19.7 26.4 79.0#



#62
4-Bromofluorobenzene
Concen: 55.125 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061029.D
Acq: 16 Apr 2020 21:59

Tgt Ion: 95 Resp: 133158
Ion Ratio Lower Upper
95 100
174 76.1 0.0 151.2
176 73.3 0.0 148.2

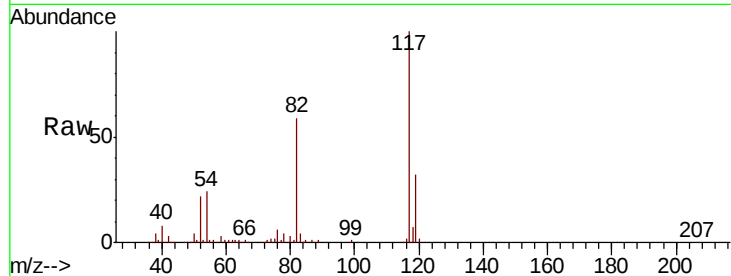




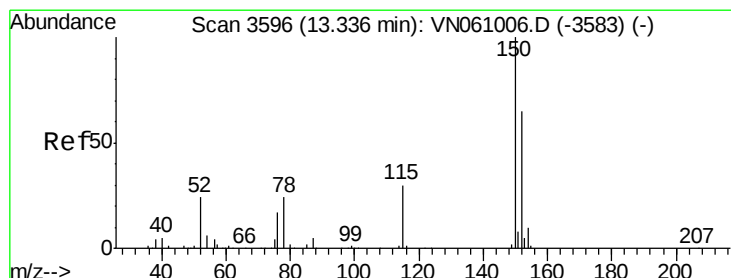
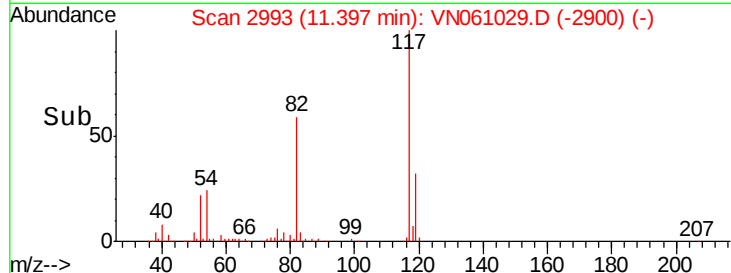
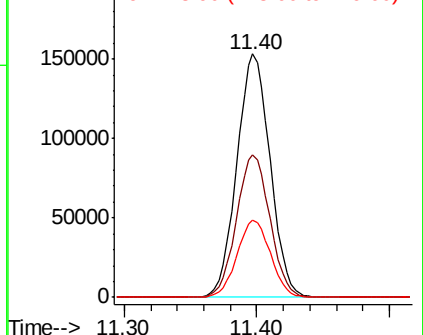
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2993
Delta R.T. 0.00 min
Lab File: VN061029.D
Acq: 16 Apr 2020 21:59

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 266041
Ion Ratio Lower Upper
117 100
82 58.6 47.1 70.7
119 31.7 25.7 38.5

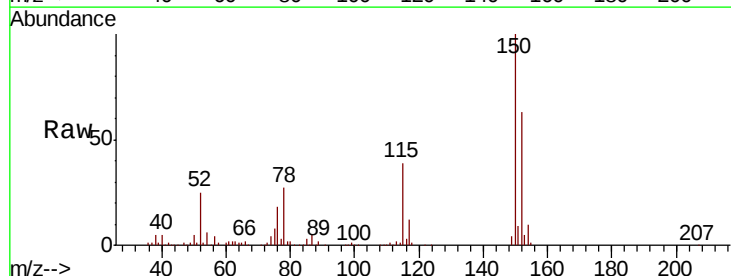


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

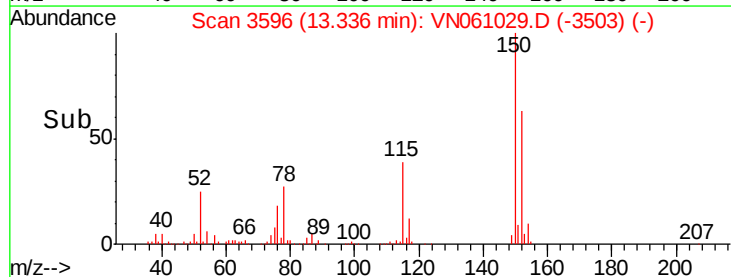
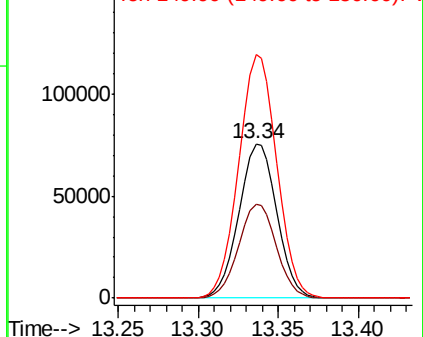


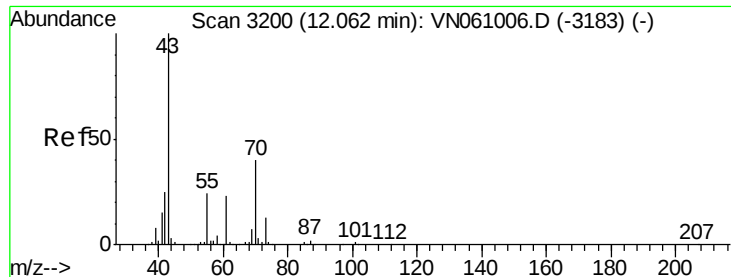
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3596
Delta R.T. 0.00 min
Lab File: VN061029.D
Acq: 16 Apr 2020 21:59

Tgt Ion:152 Resp: 122113
Ion Ratio Lower Upper
152 100
115 60.9 30.8 92.4
150 158.2 0.0 349.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.929 ug/l

RT: 12.02 min Scan# 3186

Delta R.T. -0.04 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 8774

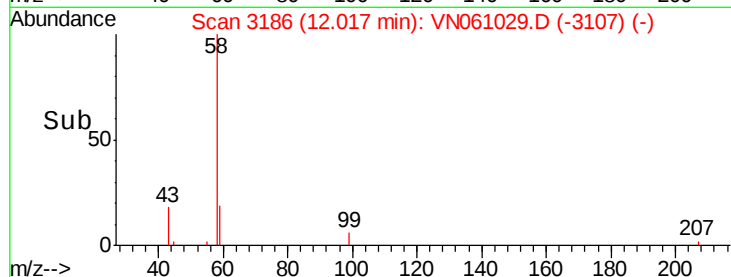
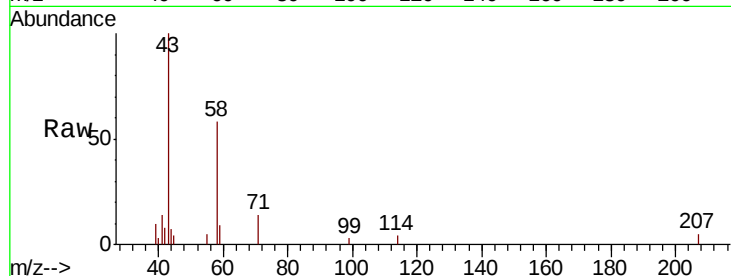
Ion Ratio Lower Upper

43 100

70 0.0 31.0 46.6#

55 6.2 18.6 27.8#

61 0.0 18.2 27.4#

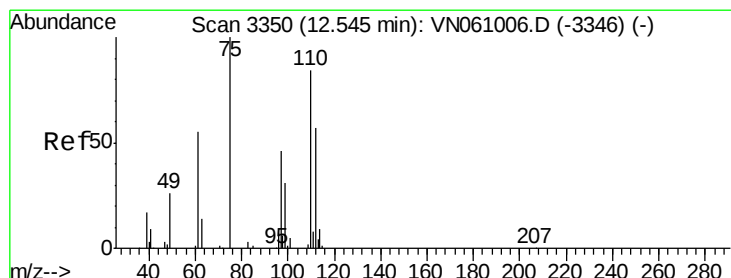
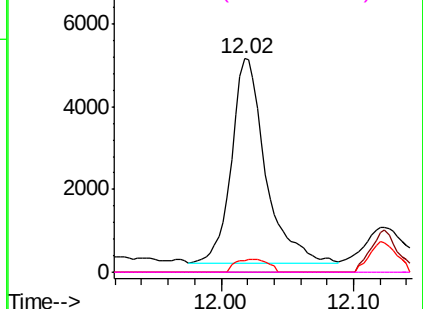


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 25.377 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061029.D

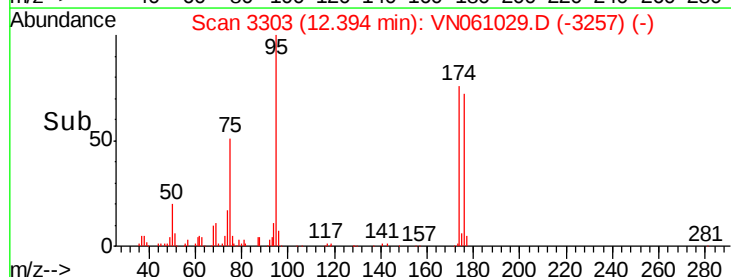
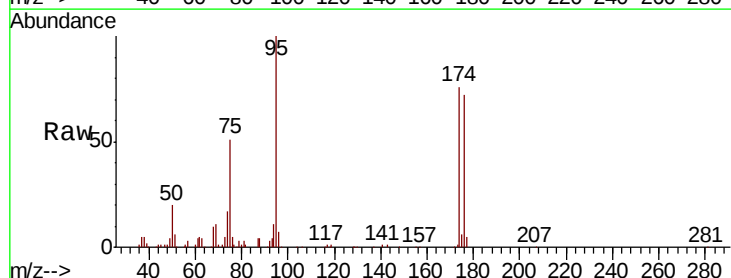
Acq: 16 Apr 2020 21:59

Tgt Ion: 75 Resp: 68163

Ion Ratio Lower Upper

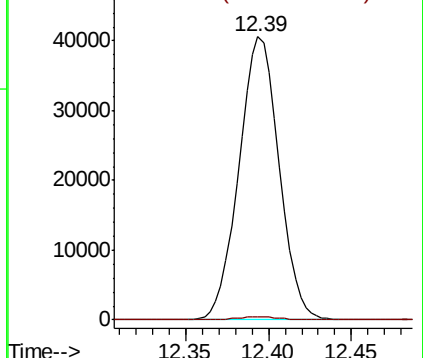
75 100

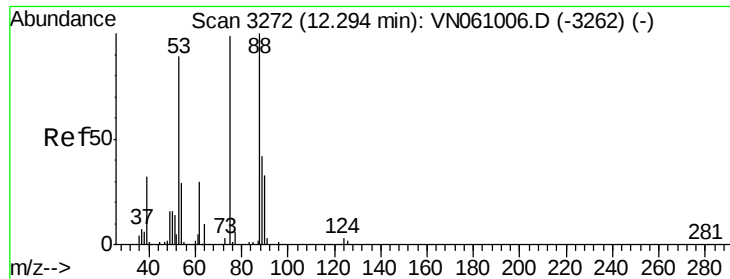
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.595 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

Instrument :

MSVOA_N

ClientSampled :

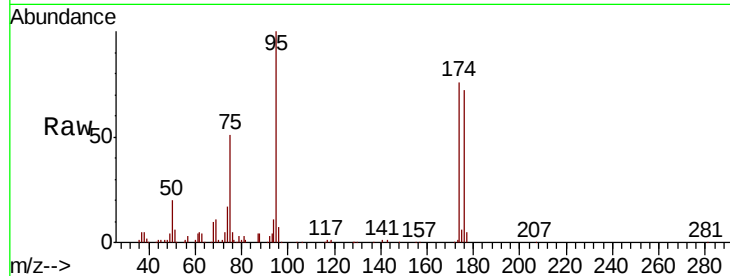
Tot Ion: 75 Resp: 68163

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

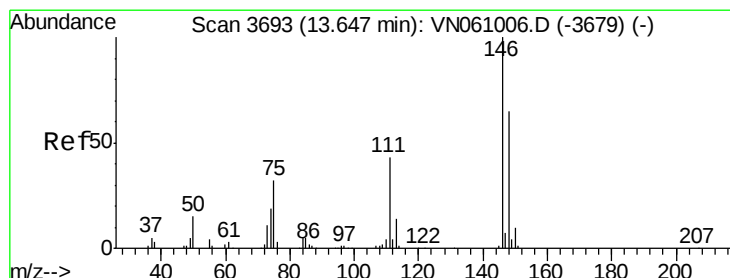
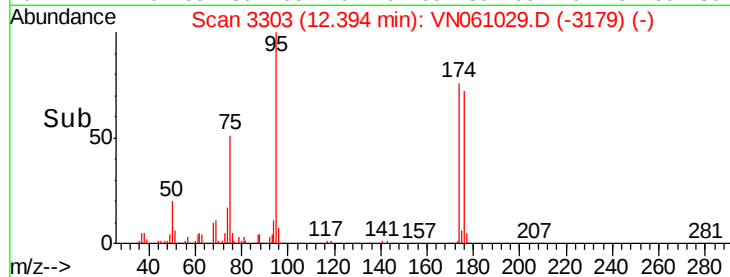
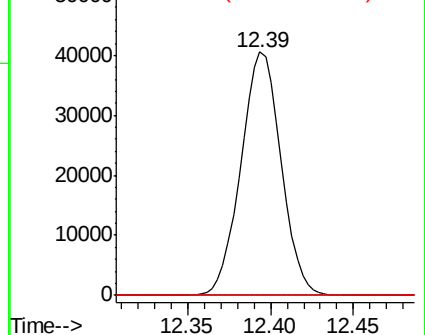
89 0.0 34.6 52.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061029.D (-3179) (-)

Ion 53.00 (52.70 to 53.70): VN061029.D (-3179) (-)

Ion 88.90 (88.60 to 89.60): VN061029.D (-3179) (-)



#91

1,2-Dichlorobenzene

Concen: 0.336 ug/l

RT: 13.64 min Scan# 3691

Delta R.T. -0.01 min

Lab File: VN061029.D

Acq: 16 Apr 2020 21:59

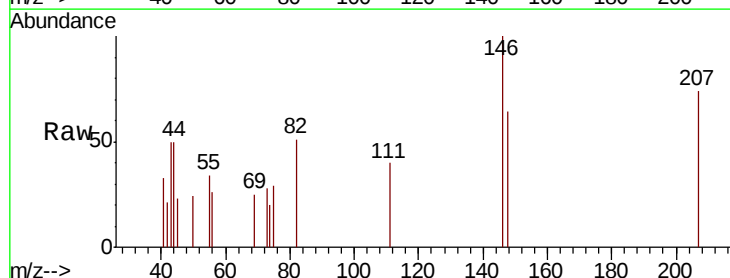
Tgt Ion: 146 Resp: 1304

Ion Ratio Lower Upper

146 100

111 43.7 21.3 64.0

148 68.8 32.0 96.0



Abundance Ion 145.90 (145.60 to 146.60): VN061029.D (-3600) (-)

Ion 110.90 (110.60 to 111.60): VN061029.D (-3600) (-)

Ion 147.90 (147.60 to 148.60): VN061029.D (-3600) (-)

