

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022520\
 Data File : VN060231.D
 Acq On : 25 Feb 2020 14:05
 Operator : JC/MD
 Sample : PB127055ZHE#12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 25 22:19:33 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	181230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	283359	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	266010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	122087	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	106517	48.30	ug/l	0.00
Spiked Amount			Recovery	=	96.60%	
35) Dibromofluoromethane	7.57	113	85756	49.23	ug/l	0.00
Spiked Amount			Recovery	=	98.46%	
50) Toluene-d8	10.08	98	343098	50.02	ug/l	0.00
Spiked Amount			Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	124781	49.51	ug/l	0.00
Spiked Amount			Recovery	=	99.02%	

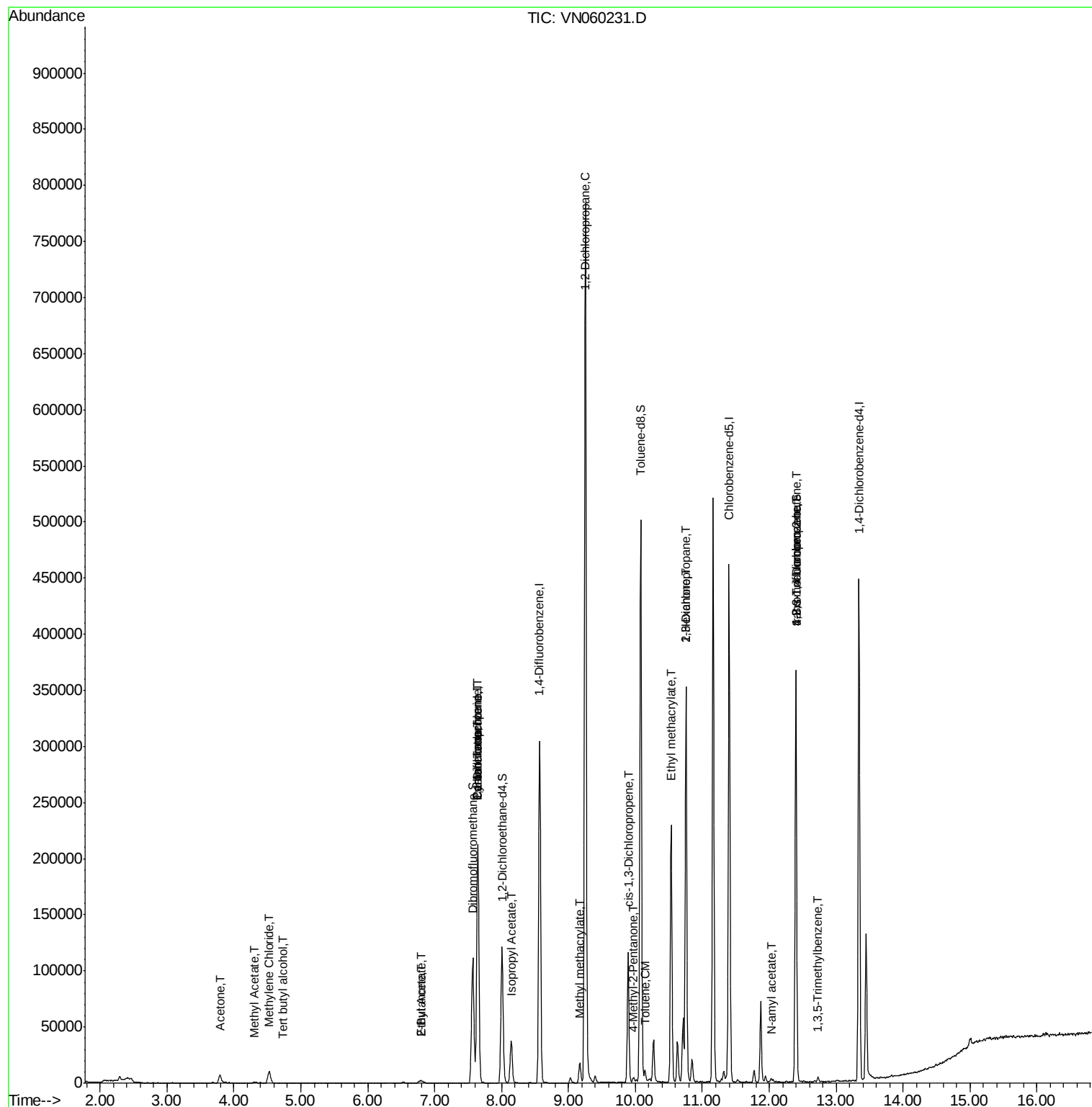
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	199	0.603	ug/l #	72
16) Acetone	3.79	43	13503	14.038	ug/l	97
18) Methyl Acetate	4.30	43	1577	0.873	ug/l #	61
20) Methylene Chloride	4.53	84	8404	4.379	ug/l	99
25) 2-Butanone	6.81	43	2601	2.150	ug/l #	85
31) Cyclohexane	7.64	56	3598	1.154	ug/l #	12
36) 1,1-Dichloropropene	7.64	75	12966	4.940	ug/l #	49
37) Ethyl Acetate	6.81	43	2601	1.097	ug/l #	68
38) Carbon Tetrachloride	7.64	117	16907	5.931	ug/l #	15
43) Isopropyl Acetate	8.14	43	45325	11.178	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1020	0.529	ug/l #	43
48) Methyl methacrylate	9.17	41	2833	1.557	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3053	1.301	ug/l	98
52) Toluene	10.14	92	4607	0.923	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	21320	6.477	ug/l #	61
56) Ethyl methacrylate	10.54	69	556	0.202	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3681	1.145	ug/l #	43
59) 2-Hexanone	10.76	43	52370	28.886	ug/l #	53
74) N-amyl acetate	12.02	43	2517	0.766	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	64143	27.461	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2607	0.344	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	64143	67.238	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.33	75	29	Below Cal	#	1

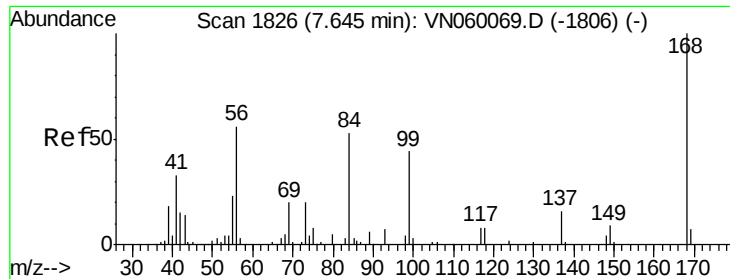
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN022520\
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Acq On : 25 Feb 2020 14:05
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ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Feb 25 22:19:33 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

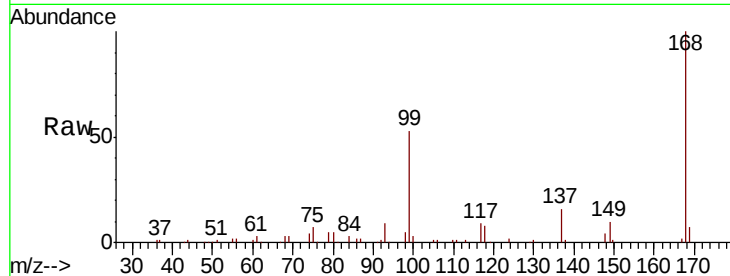
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 181230

Ion Ratio Lower Upper

168 100

99 53.1 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

80000

60000

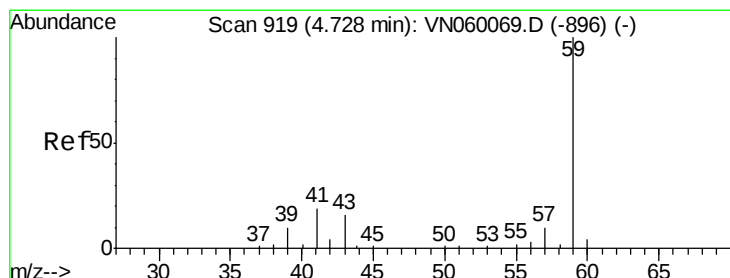
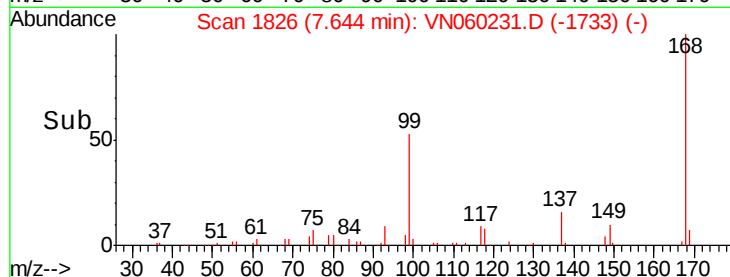
40000

20000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.603 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.01 min

Lab File: VN060231.D

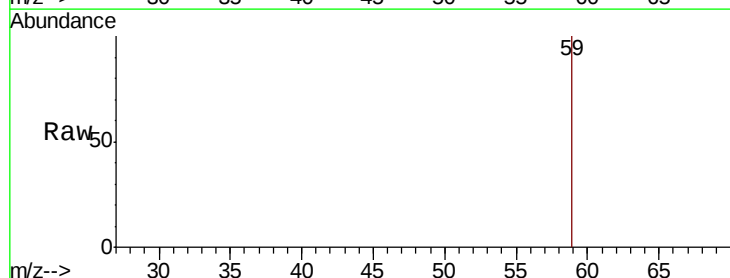
Acq: 25 Feb 2020 14:05

Tgt Ion: 59 Resp: 199

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

4.73

200

150

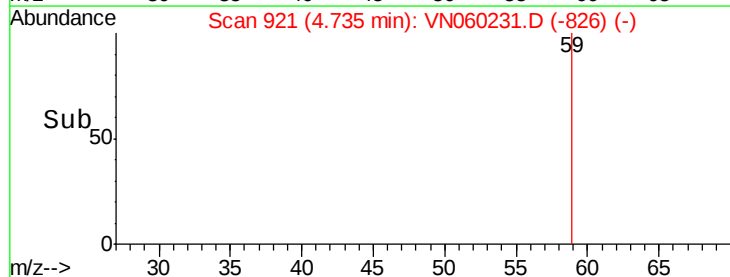
100

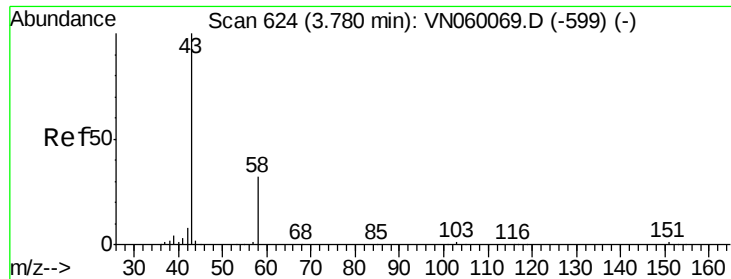
50

0

4.72 4.74 4.76

Time-->





#16

Acetone

Concen: 14.038 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

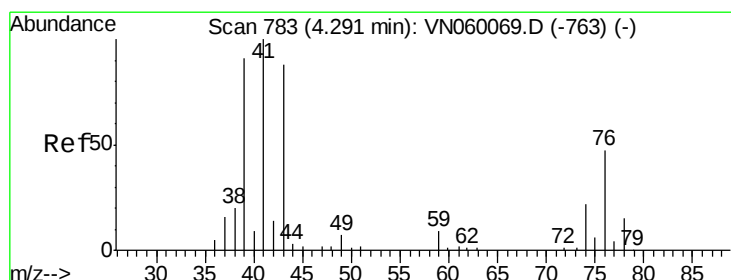
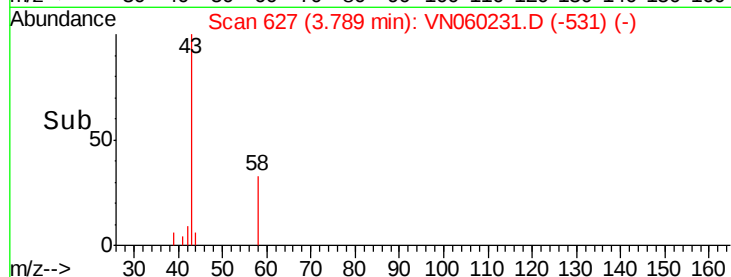
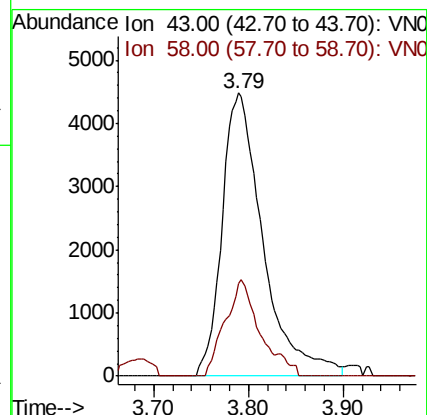
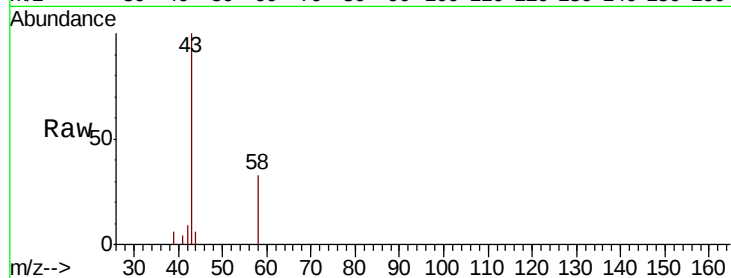
ClientSampled :

Tot Ion: 43 Resp: 13503

Ion Ratio Lower Upper

43 100

58 32.9 25.2 37.8



#18

Methyl Acetate

Concen: 0.873 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.01 min

Lab File: VN060231.D

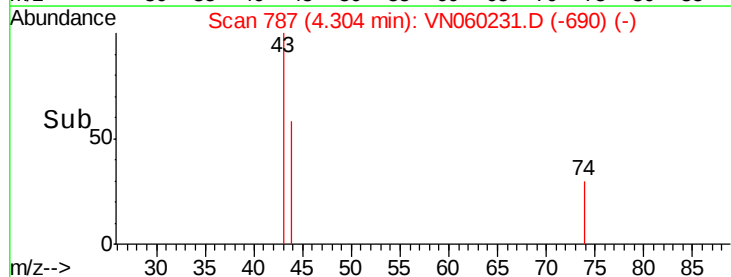
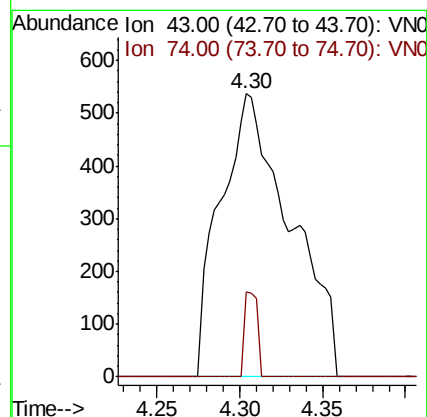
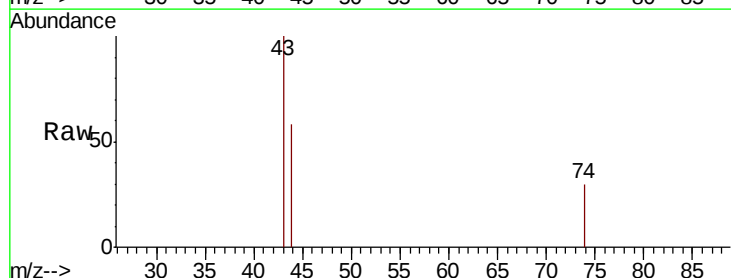
Acq: 25 Feb 2020 14:05

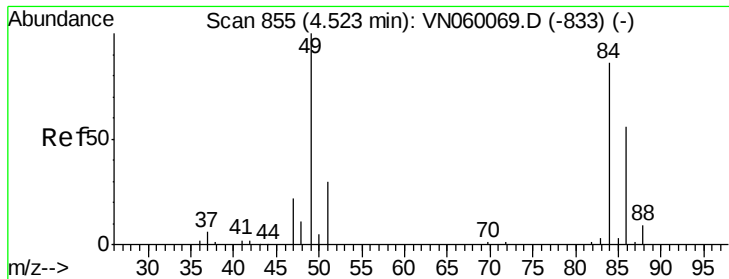
Tgt Ion: 43 Resp: 1577

Ion Ratio Lower Upper

43 100

74 5.8 20.3 30.5#

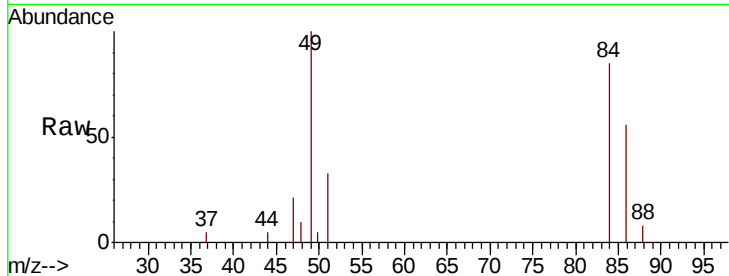




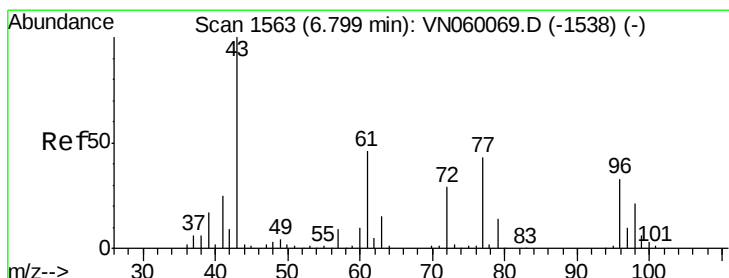
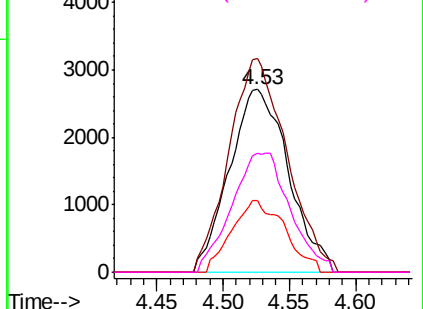
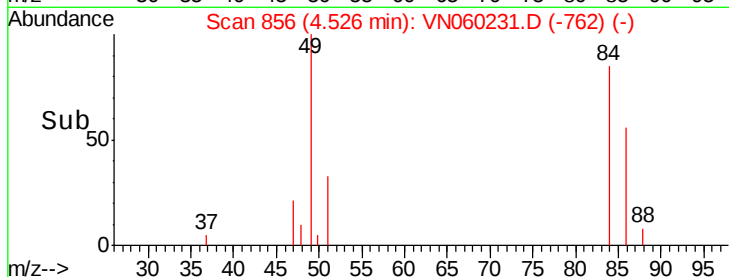
#20
Methvlene Chloride
Concen: 4.379 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 84 Resp: 8404
Ion Ratio Lower Upper
84 100
49 117.1 93.4 140.0
51 39.1 28.4 42.6
86 65.3 52.5 78.7

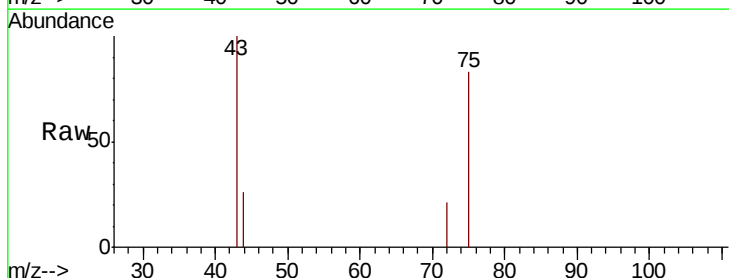


Abundance Ion 83.90 (83.60 to 84.60): VNO
Ion 48.90 (48.60 to 49.60): VNO
Ion 50.90 (50.60 to 51.60): VNO
Ion 85.90 (85.60 to 86.60): VNO

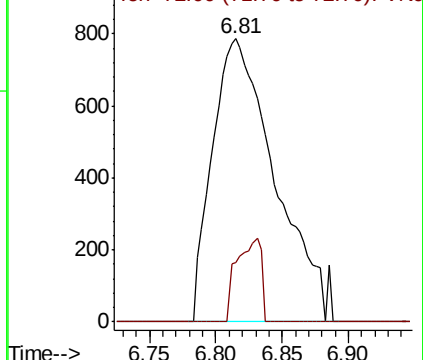
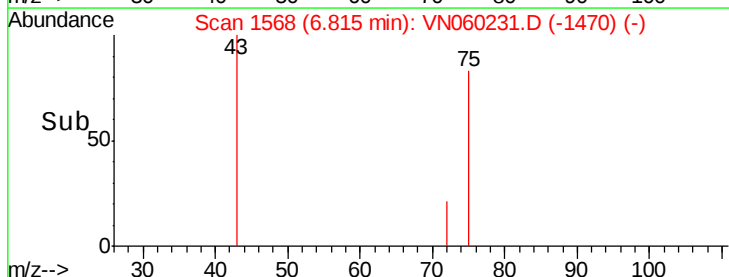


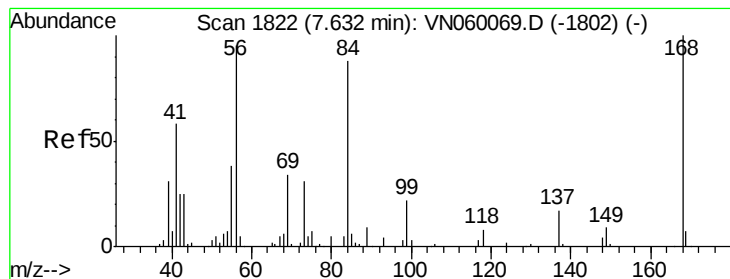
#25
2-Butanone
Concen: 2.150 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion: 43 Resp: 2601
Ion Ratio Lower Upper
43 100
72 21.0 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 72.00 (71.70 to 72.70): VNO





#31

Cyclohexane

Concen: 1.154 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

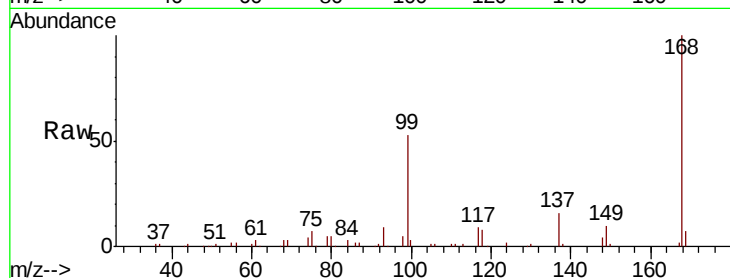
Tot Ion: 56 Resp: 3598

Ion Ratio Lower Upper

56 100

69 153.7 28.3 42.5#

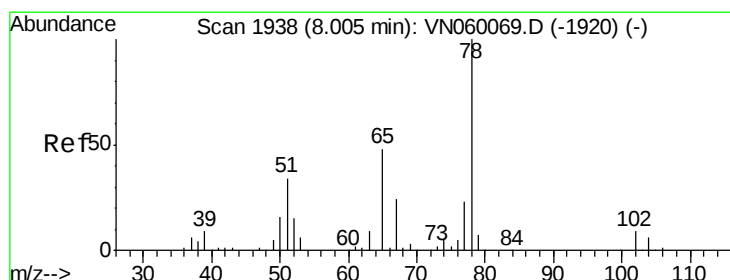
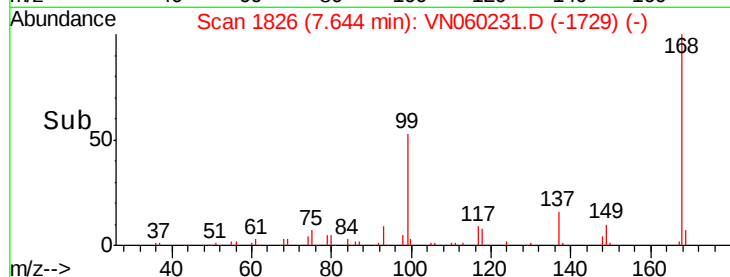
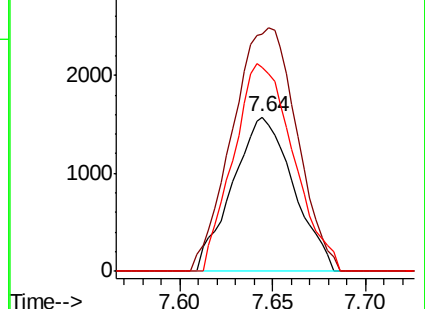
84 131.8 72.6 108.8#



Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN060069.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.301 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN060231.D

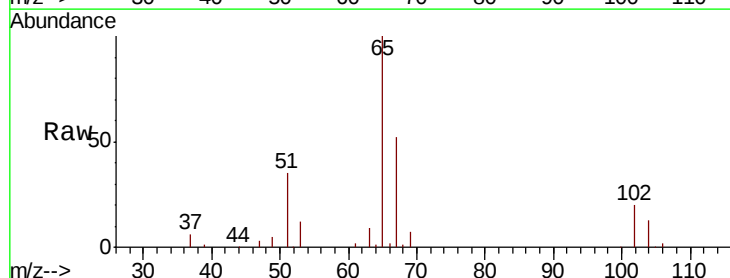
Acq: 25 Feb 2020 14:05

Tgt Ion: 65 Resp: 106517

Ion Ratio Lower Upper

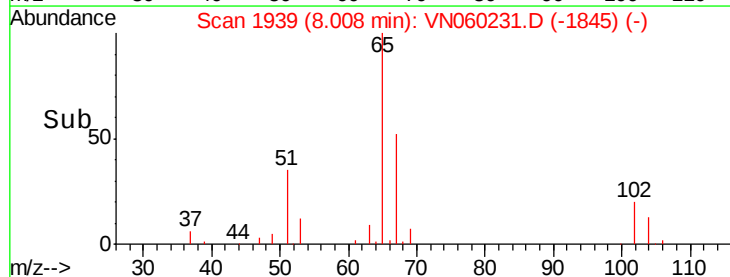
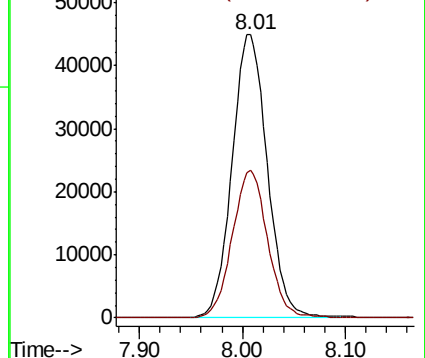
65 100

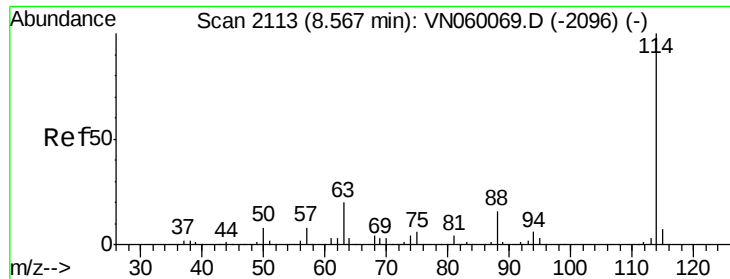
67 52.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)

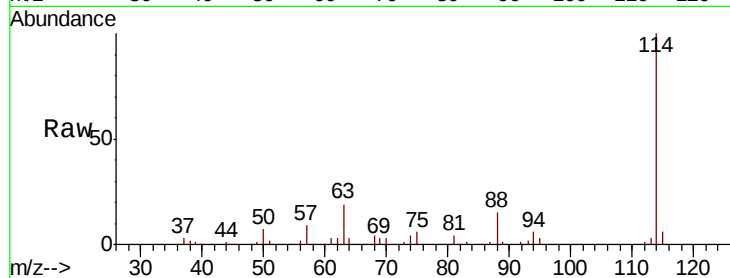




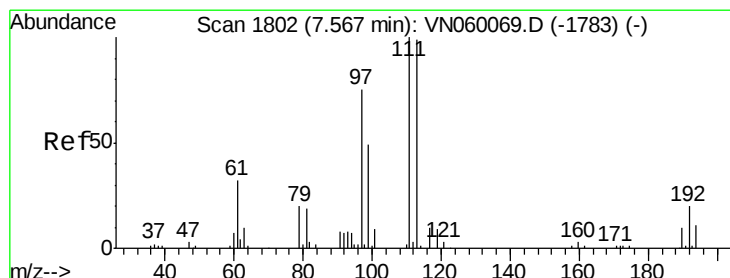
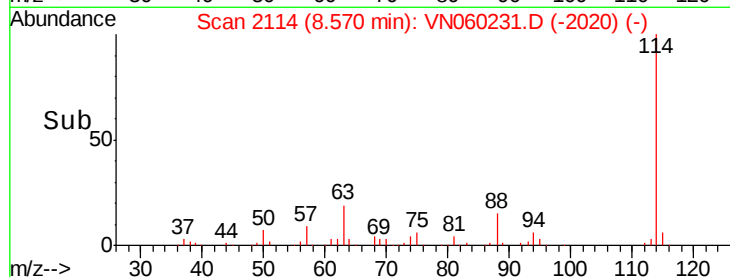
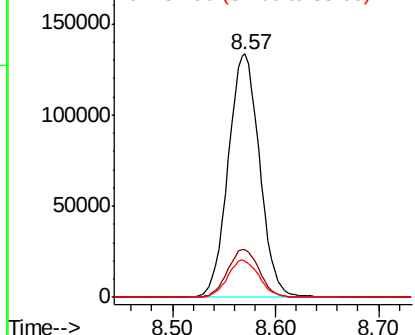
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:114 Resp: 283359
Ion Ratio Lower Upper
114 100
63 19.5 0.0 40.0
88 14.9 0.0 31.6

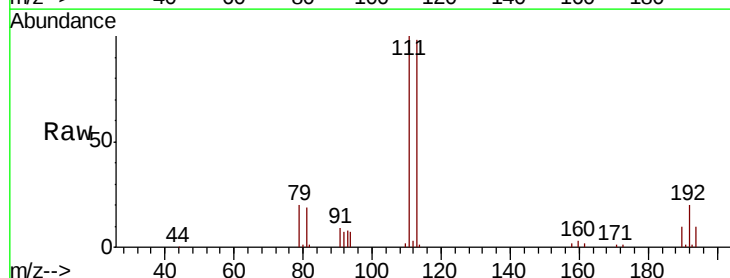


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

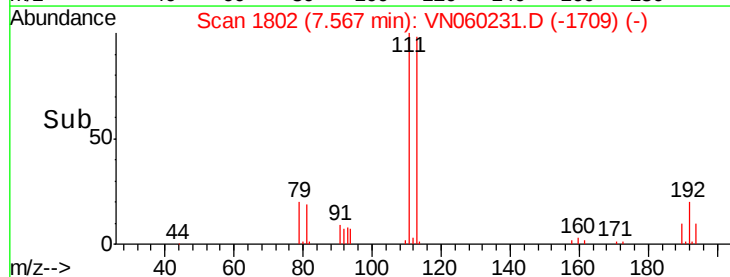
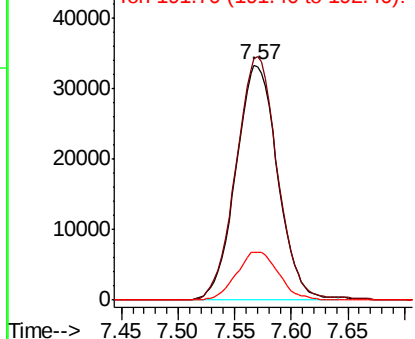


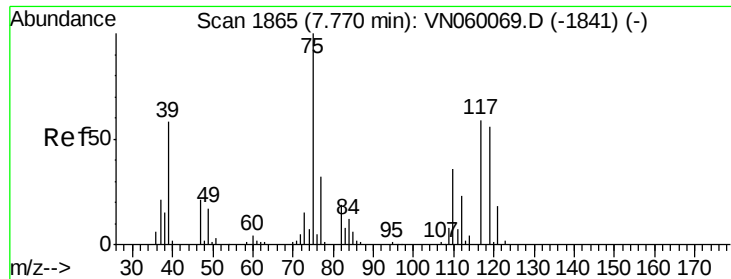
#35
Dibromofluoromethane
Concen: 49.234 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion:113 Resp: 85756
Ion Ratio Lower Upper
113 100
111 103.2 81.4 122.2
192 20.6 16.2 24.2



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





#36

1,1-Dichloropropene

Concen: 4.940 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.13 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

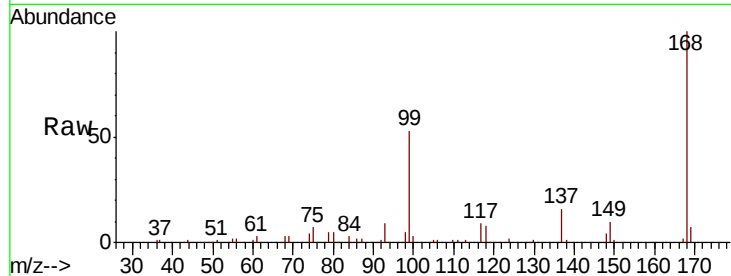
Tot Ion: 75 Resp: 12966

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.3#

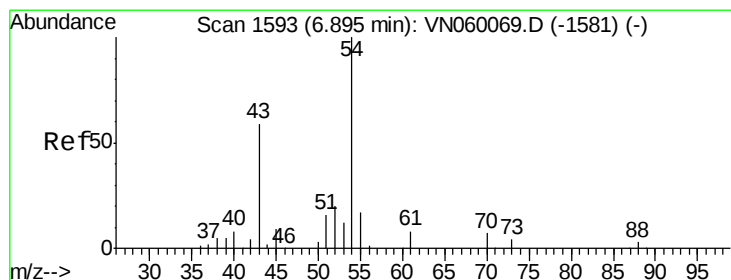
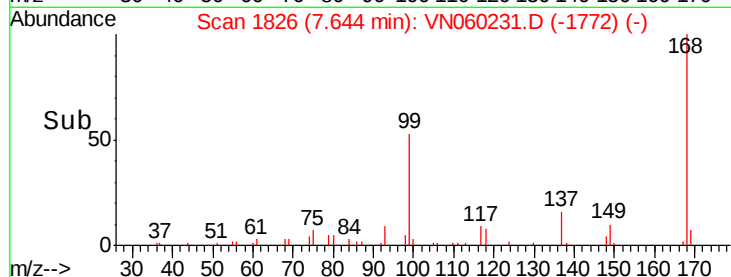
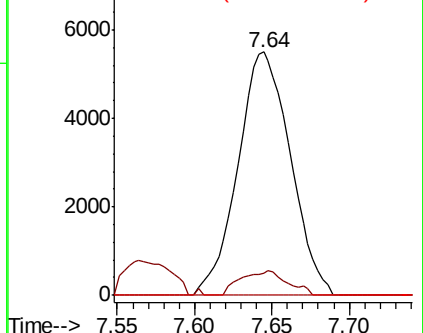
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-1841) (-)

Ion 109.90 (109.60 to 110.60): VN060069.D (-1841) (-)

Ion 76.90 (76.60 to 77.60): VN060069.D (-1841) (-)



#37

Ethyl Acetate

Concen: 1.097 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. -0.08 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

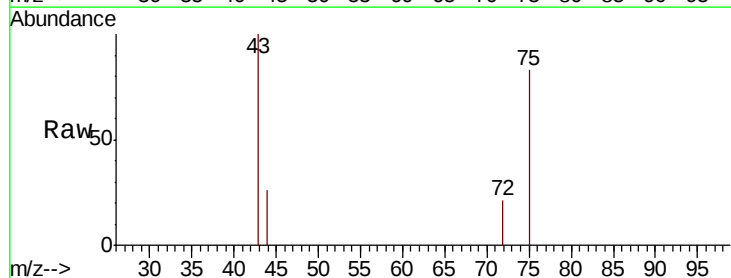
Tgt Ion: 43 Resp: 2601

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.2#

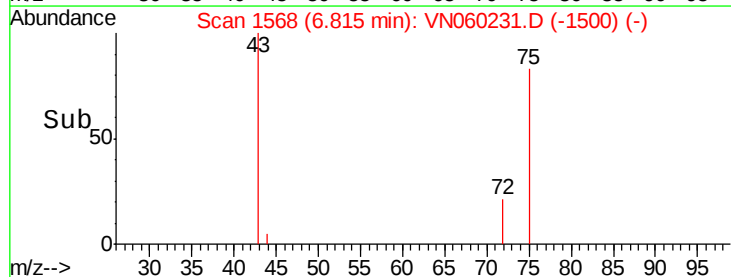
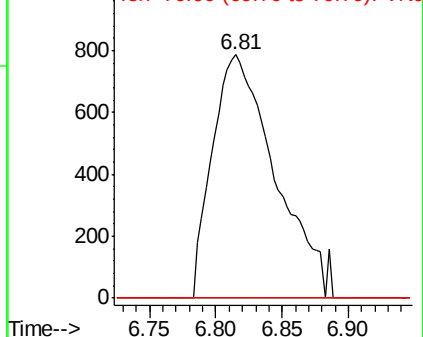
70 0.0 8.7 13.1#

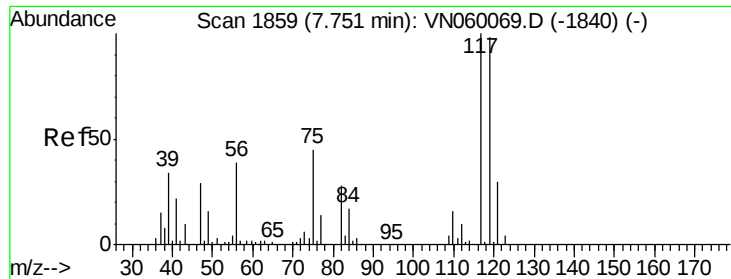


Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1581) (-)

Ion 60.90 (60.60 to 61.60): VN060069.D (-1581) (-)

Ion 70.00 (69.70 to 70.70): VN060069.D (-1581) (-)

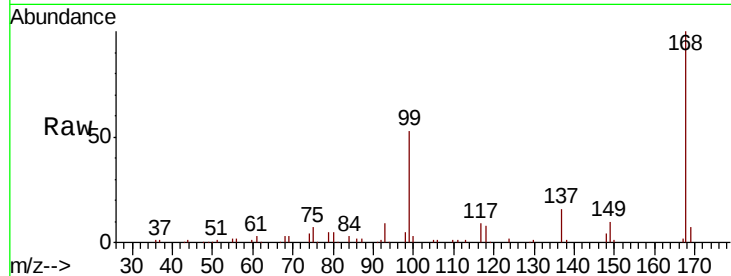




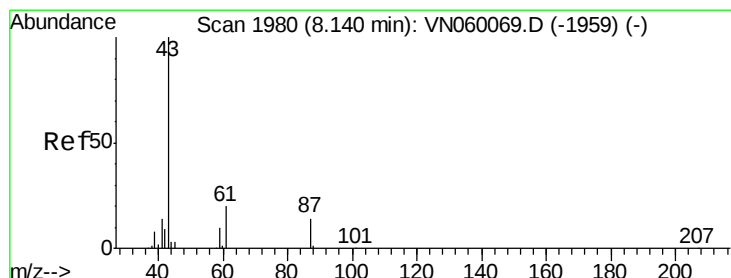
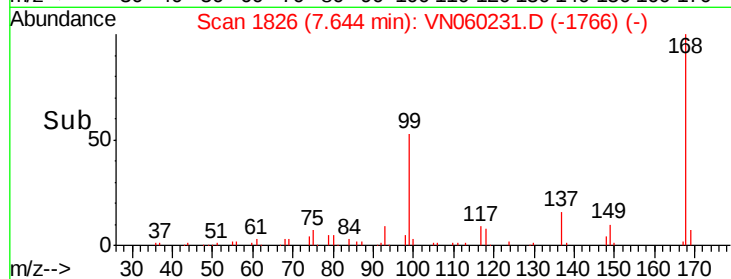
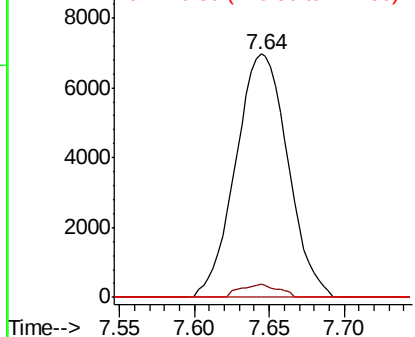
#38
Carbon Tetrachloride
Concen: 5.931 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 16907
Ion Ratio Lower Upper
117 100
119 5.2 78.2 117.4#
121 0.0 24.2 36.2#

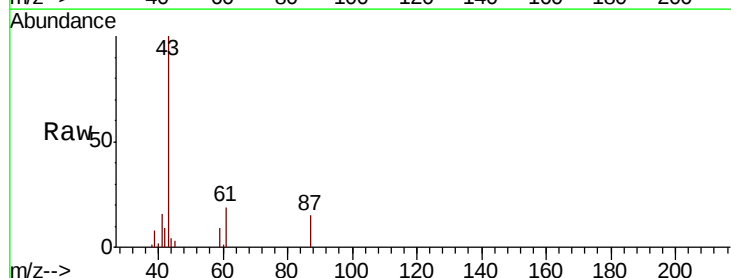


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

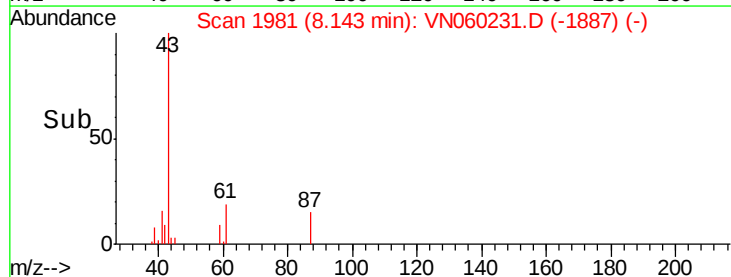
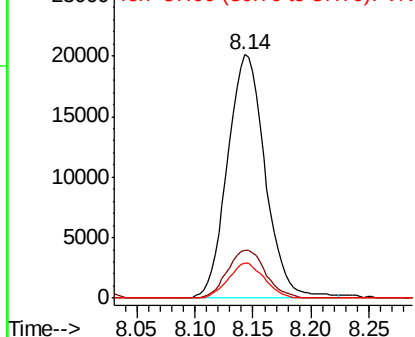


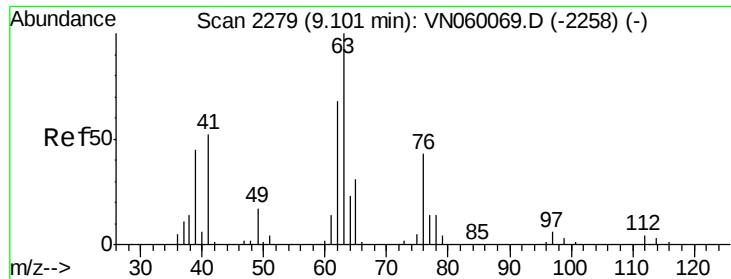
#43
Isopropyl Acetate
Concen: 11.178 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion: 43 Resp: 45325
Ion Ratio Lower Upper
43 100
61 19.8 21.8 32.6#
87 13.6 11.4 17.2



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

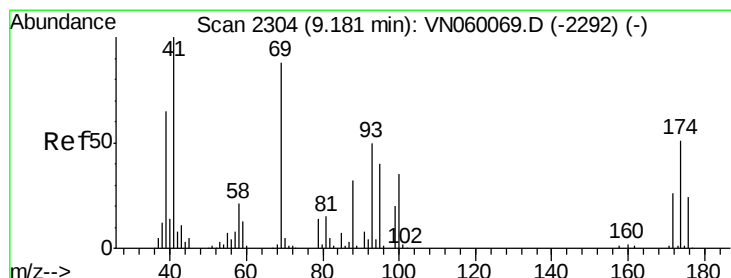
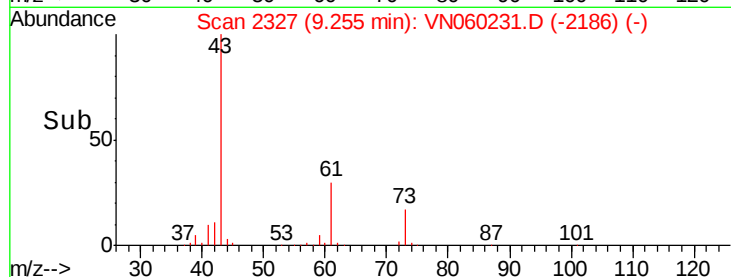
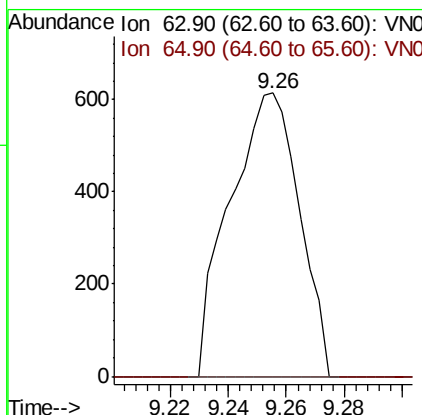
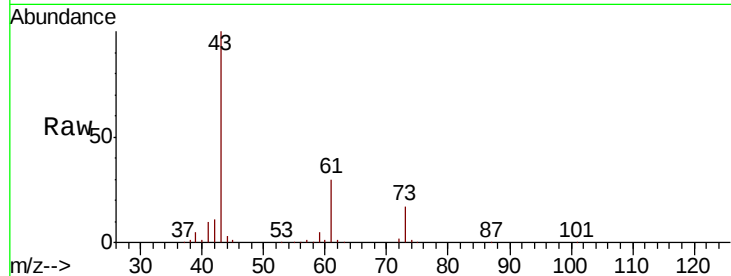




#45
 1,2-Dichloropropane
 Concen: 0.529 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.15 min
 Lab File: VN060231.D
 Acq: 25 Feb 2020 14:05

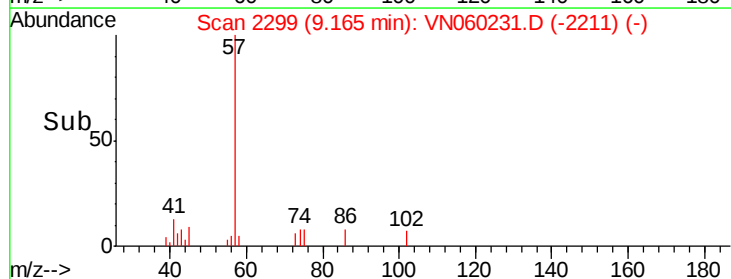
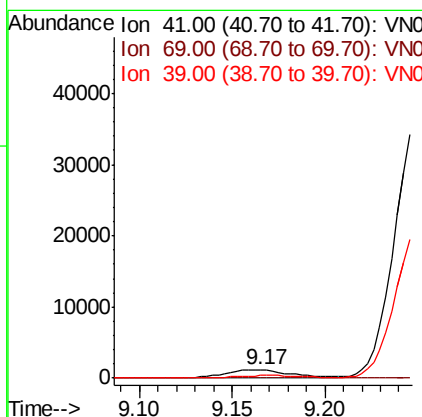
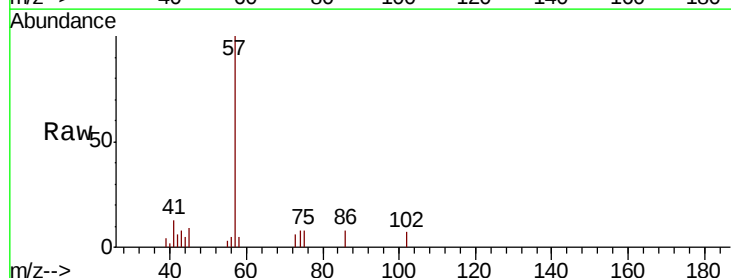
Instrument :
 MSVOA_N
 ClientSampleId :

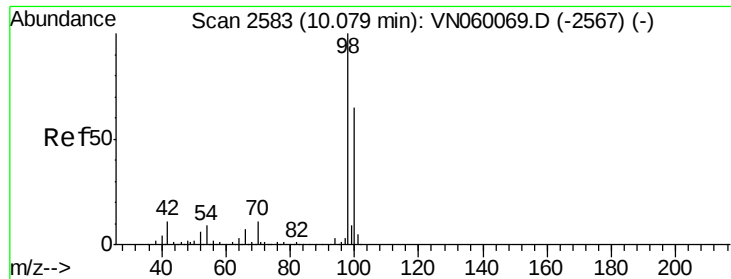
Tot Ion: 63 Resp: 1020
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.557 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN060231.D
 Acq: 25 Feb 2020 14:05

Tgt Ion: 41 Resp: 2833
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.0 108.0#
 39 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 50.020 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

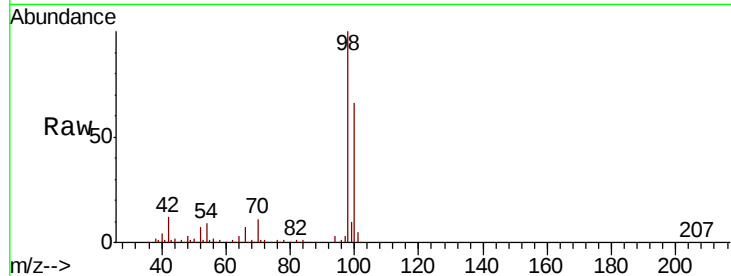
ClientSampled :

Tot Ion: 98 Resp: 343098

Ion Ratio Lower Upper

98 100

100 65.2 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN060069.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN060069.D (-2567) (-)

10.08

200000

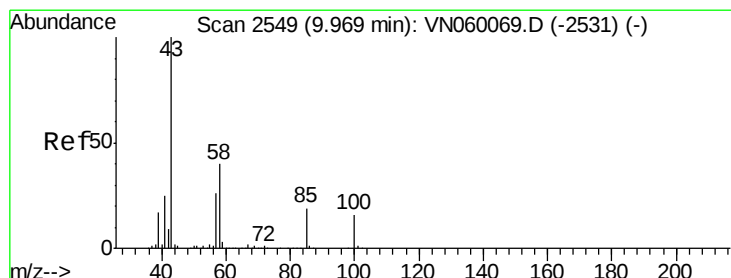
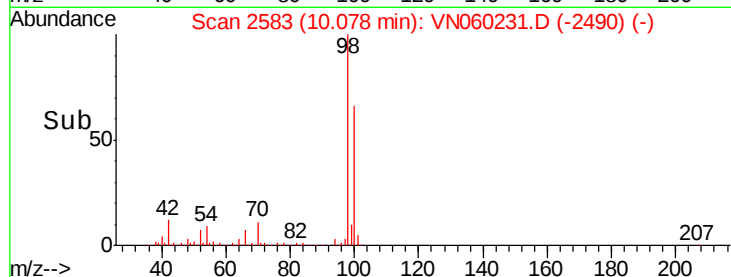
150000

100000

50000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.301 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060231.D

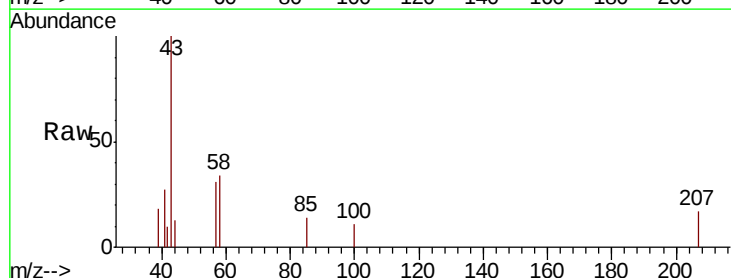
Acq: 25 Feb 2020 14:05

Tgt Ion: 43 Resp: 3053

Ion Ratio Lower Upper

43 100

58 38.6 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-2531) (-)

Ion 58.00 (57.70 to 58.70): VN060069.D (-2531) (-)

9.97

2500

2000

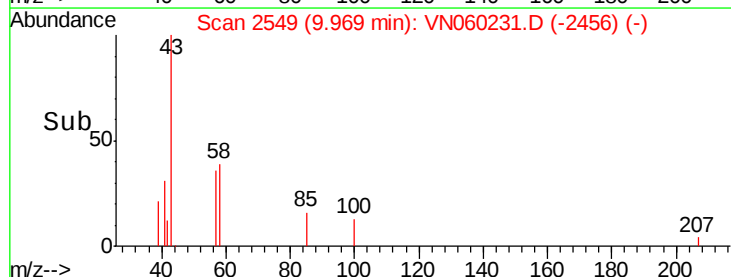
1500

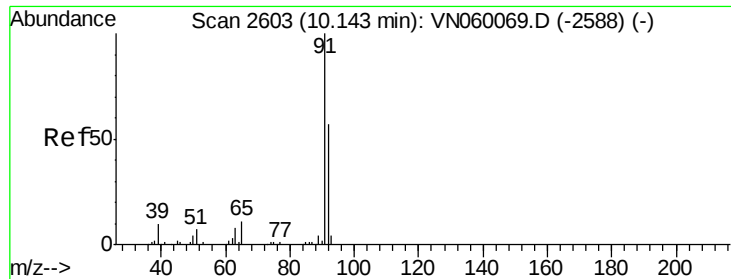
1000

500

0

Time-->





#52

Toluene

Concen: 0.923 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

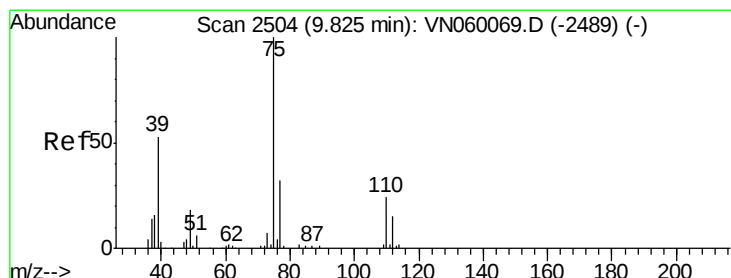
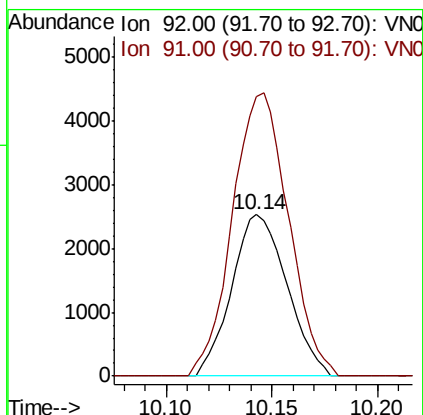
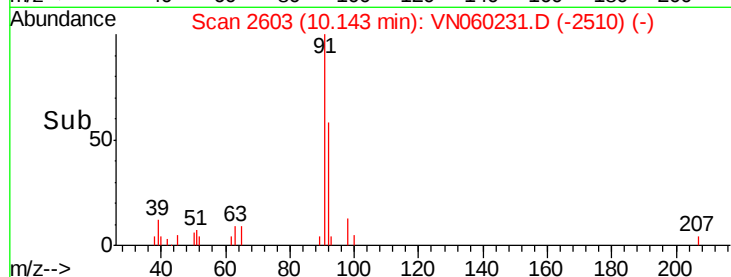
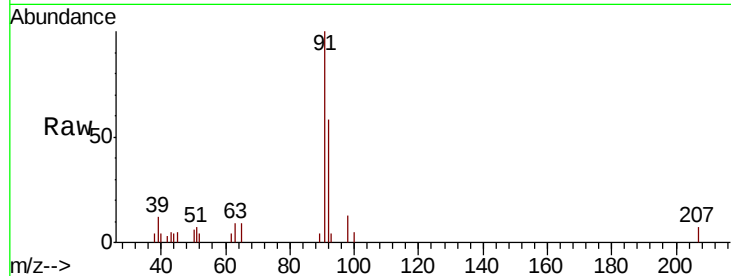
ClientSampled :

Tot Ion: 92 Resp: 4607

Ion Ratio Lower Upper

92 100

91 177.8 140.9 211.3



#54

cis-1,3-Dichloropropene

Concen: 6.477 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

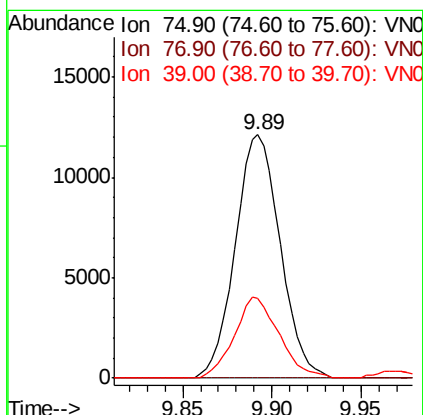
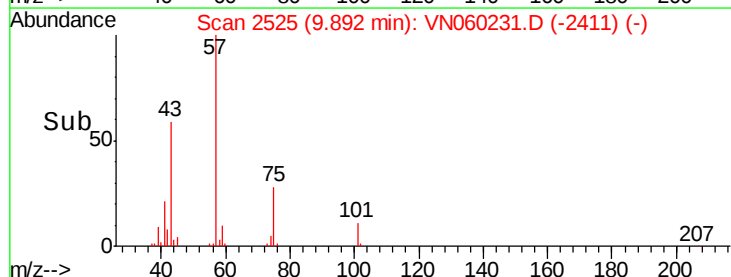
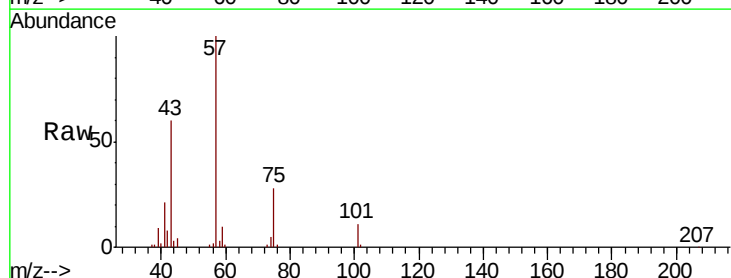
Tgt Ion: 75 Resp: 21320

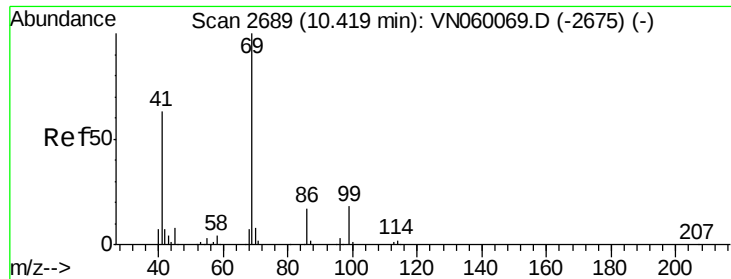
Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 32.7 42.2 63.4#

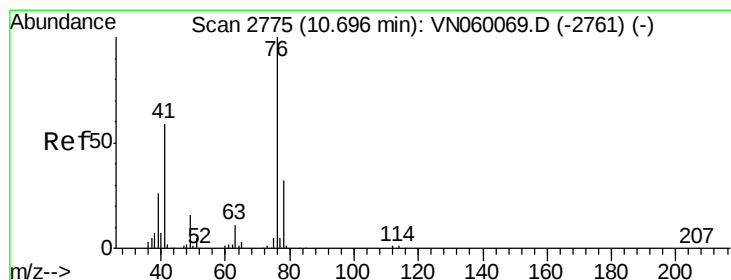
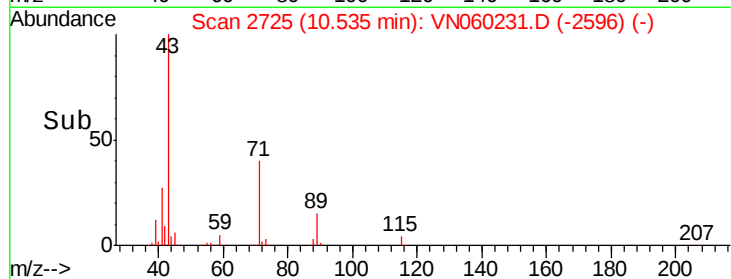
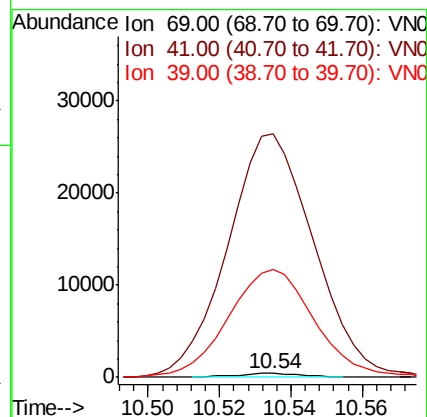
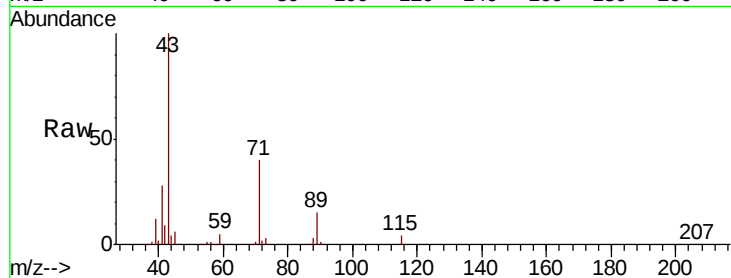




#56
Ethyl methacrylate
Concen: 0.202 ug/l
RT: 10.54 min Scan# 2725
Delta R.T. 0.12 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

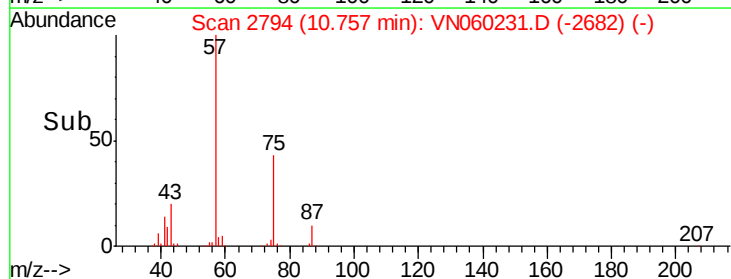
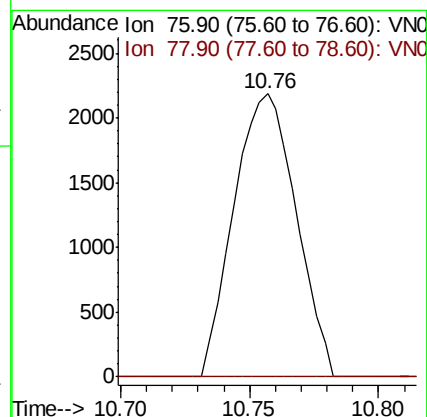
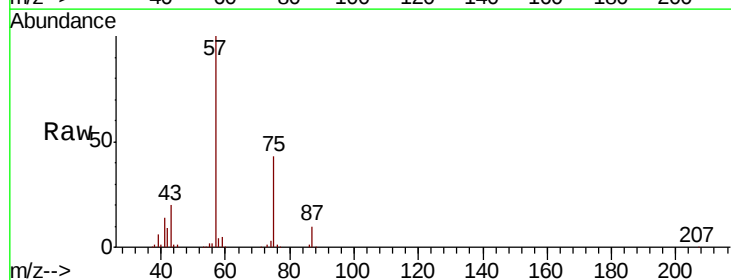
Instrument :
MSVOA_N
ClientSampleId :

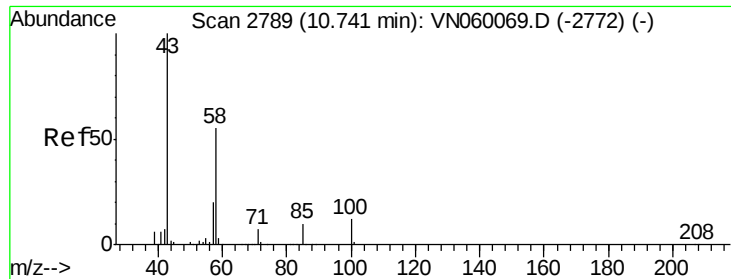
Tot Ion: 69 Resp: 556
Ion Ratio Lower Upper
69 100
41 8017.4 51.1 76.7#
39 3566.4 33.8 50.8#



#57
1,3-Dichloropropane
Concen: 1.145 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.06 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion: 76 Resp: 3681
Ion Ratio Lower Upper
76 100
78 0.0 25.7 38.5#

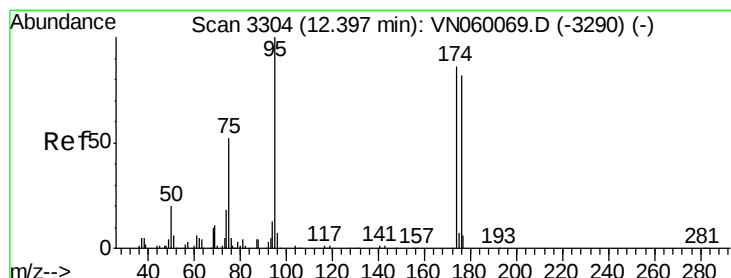
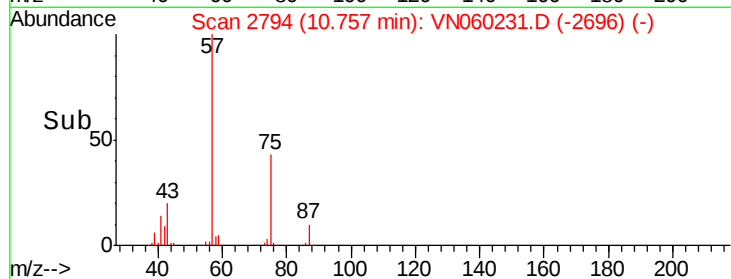
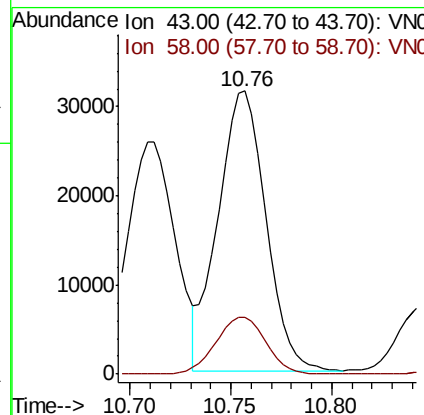
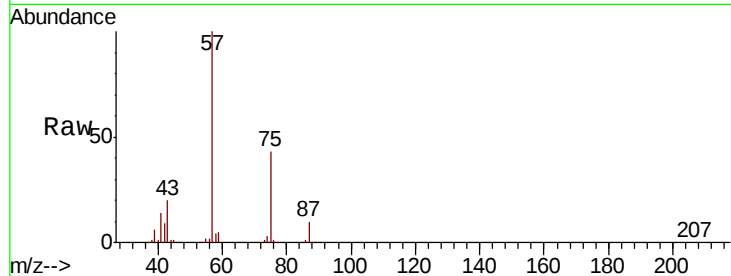




#59
2-Hexanone
Concen: 28.886 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.02 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

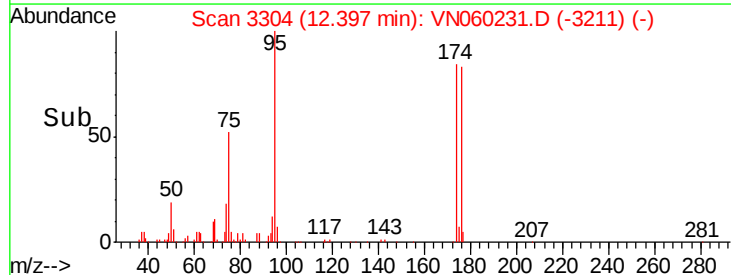
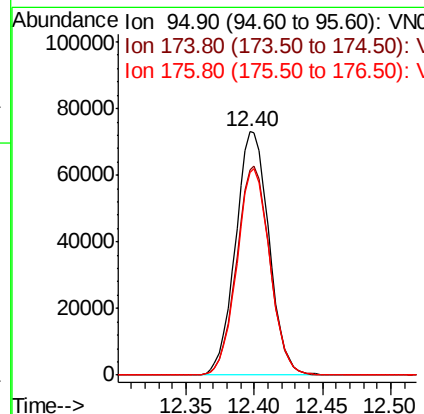
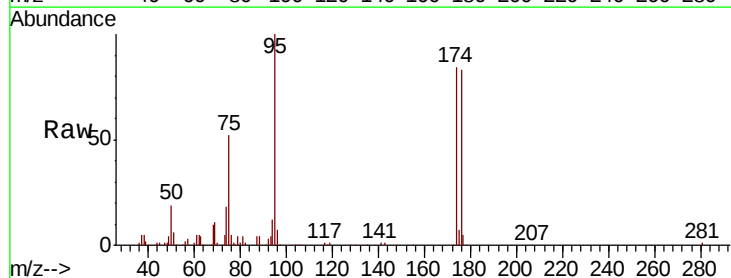
Instrument :
MSVOA_N
ClientSampled :

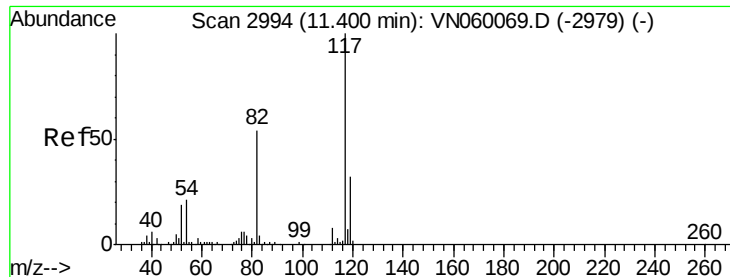
Tot Ion: 43 Resp: 52370
Ion Ratio Lower Upper
43 100
58 21.0 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.508 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion: 95 Resp: 124781
Ion Ratio Lower Upper
95 100
174 84.8 0.0 169.8
176 83.2 0.0 164.8

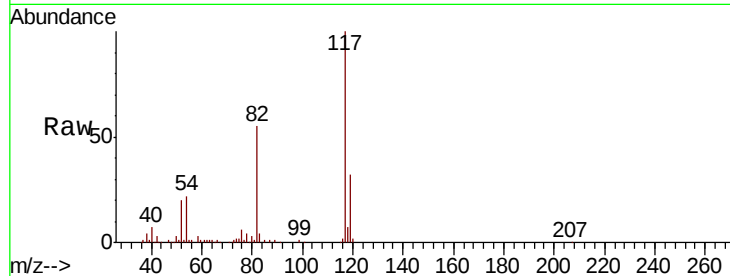




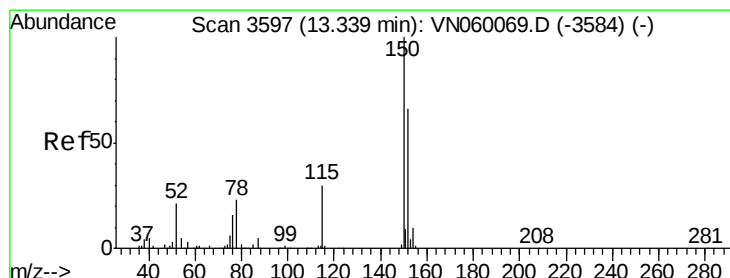
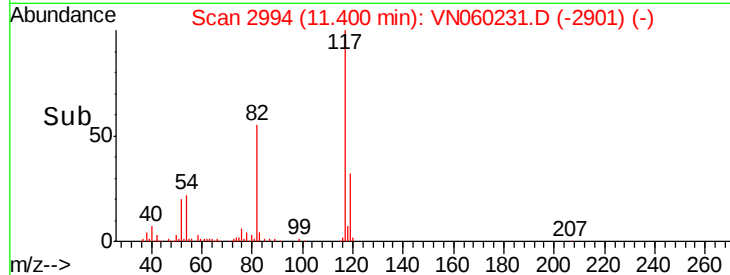
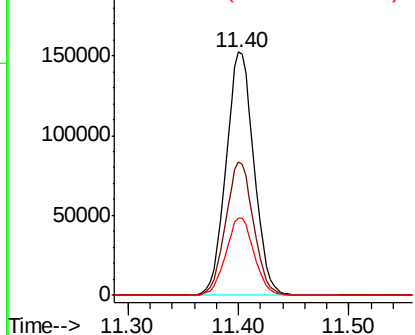
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 266010
Ion Ratio Lower Upper
117 100
82 54.9 43.4 65.0
119 31.8 25.8 38.6

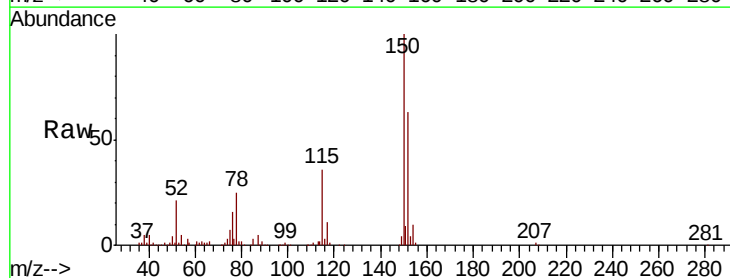


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

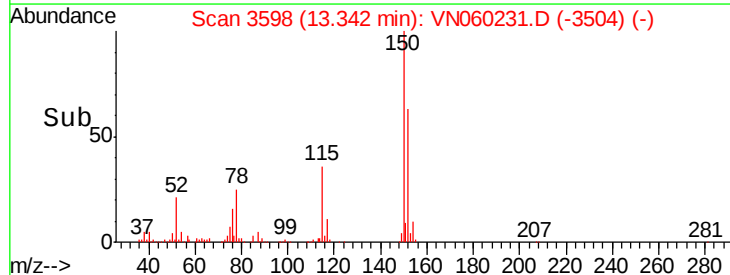
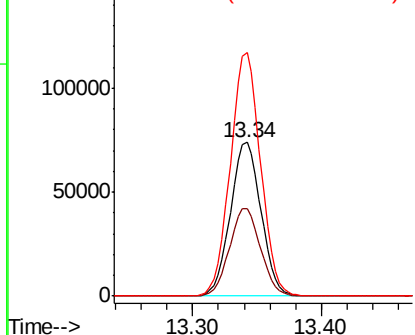


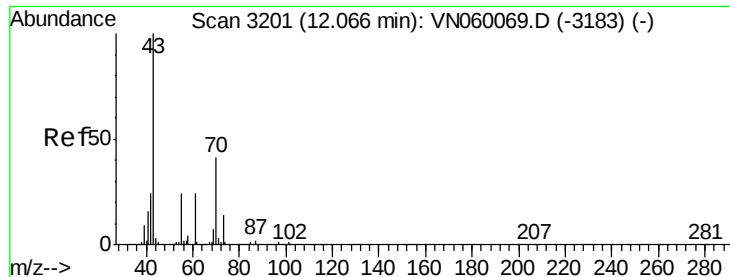
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion:152 Resp: 122087
Ion Ratio Lower Upper
152 100
115 57.7 28.9 86.8
150 155.9 0.0 342.4



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: 0.766 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 2517

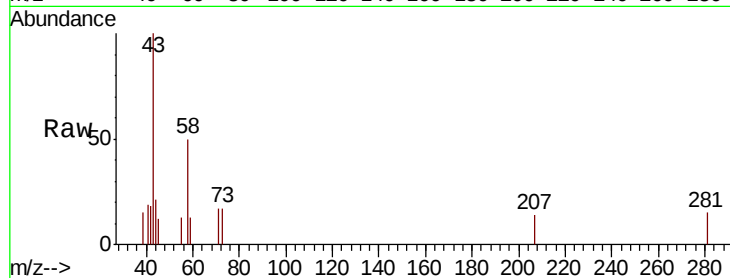
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 2.4 18.8 28.2#

61 0.0 19.2 28.8#

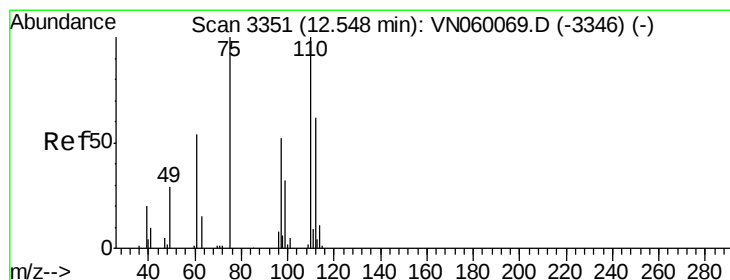
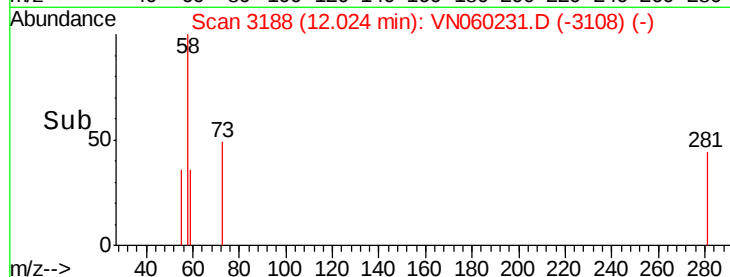
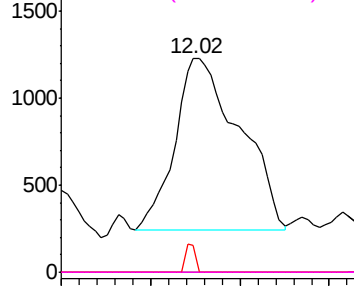


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.461 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060231.D

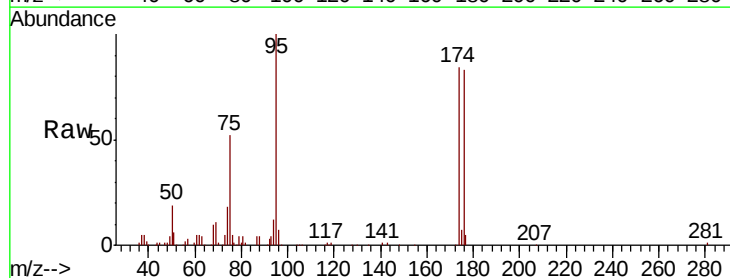
Acq: 25 Feb 2020 14:05

Tgt Ion: 75 Resp: 64143

Ion Ratio Lower Upper

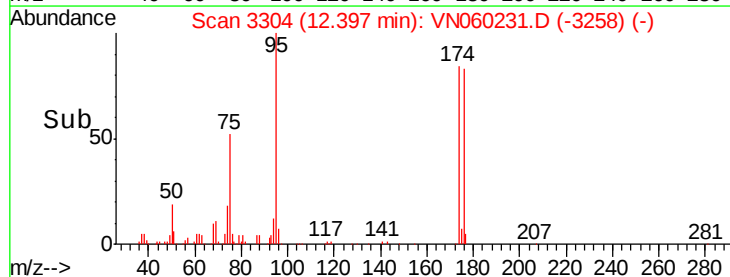
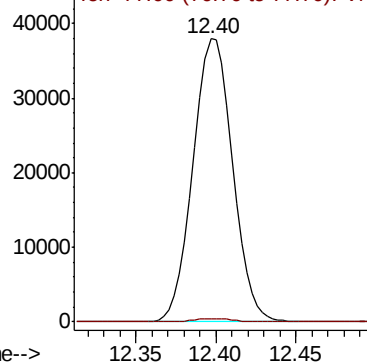
75 100

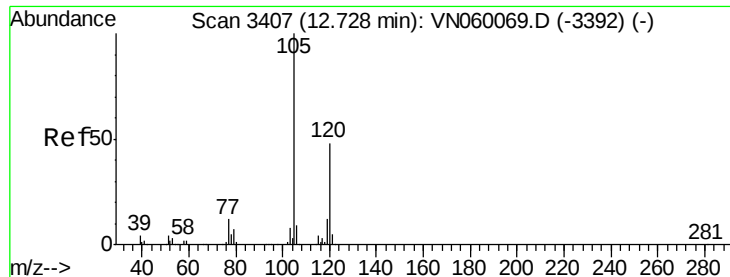
77 1.1 0.0 0.0#



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: 0.344 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

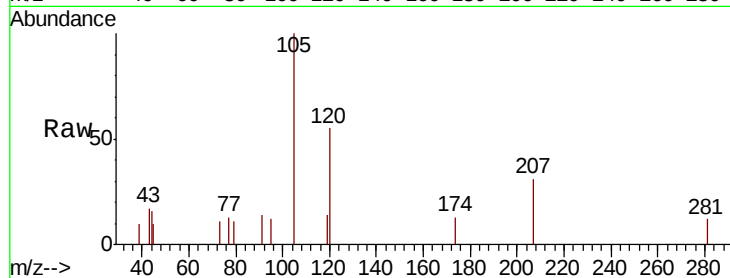
ClientSampleId :

Tot Ion:105 Resp: 2607

Ion Ratio Lower Upper

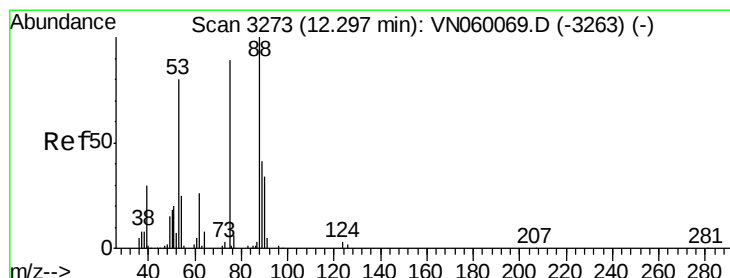
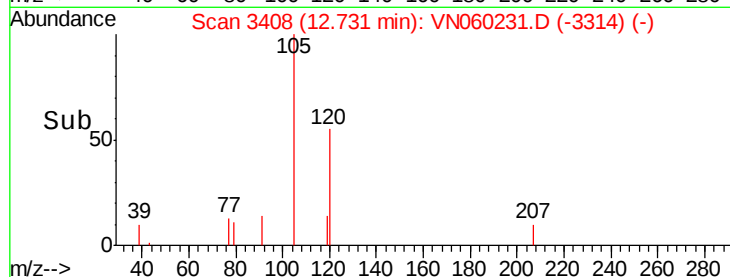
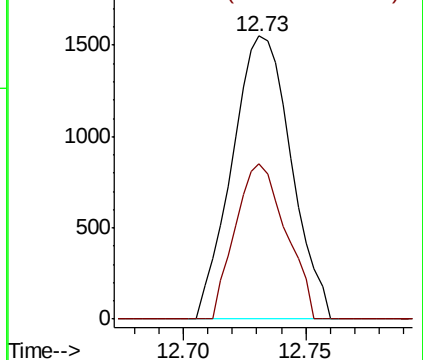
105 100

120 46.8 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.238 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

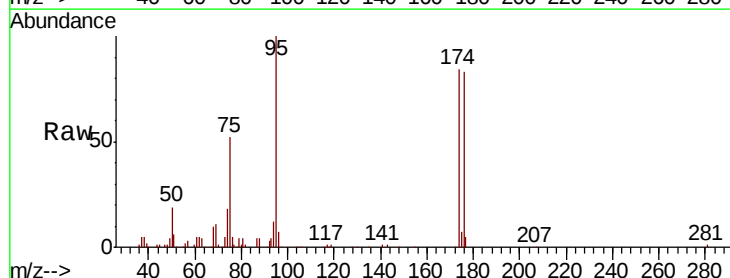
Tgt Ion: 75 Resp: 64143

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

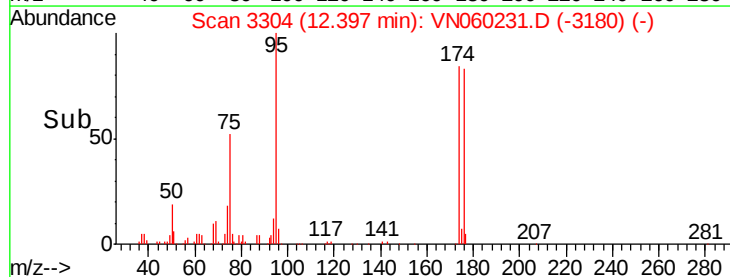
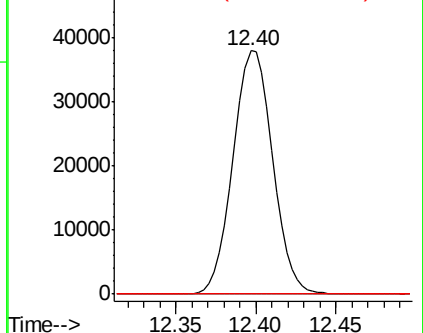
89 0.0 37.0 55.4#

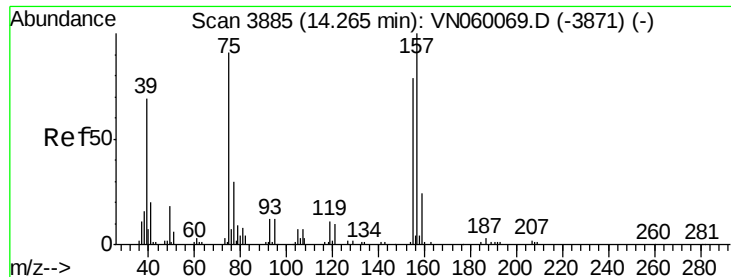


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.33 min Scan# 3905

Delta R.T. 0.07 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

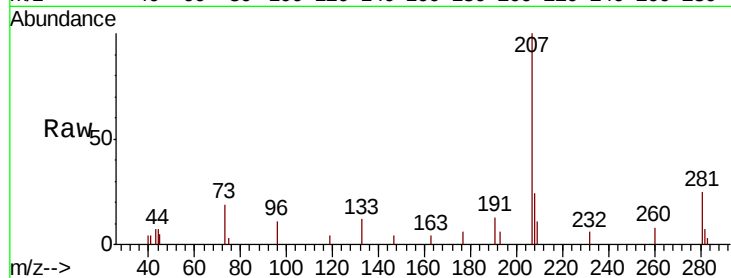
Tot Ion: 75 Resp: 29

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060231.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060231.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060231.D (-3791) (-)

