

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021920\
 Data File : VN060152.D
 Acq On : 19 Feb 2020 13:46
 Operator : JC/MD
 Sample : PB126910ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 20 01:17:18 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	181526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	290303	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	270879	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	121108	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	106426	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
35) Dibromofluoromethane	7.57	113	85036	47.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.30%	
50) Toluene-d8	10.08	98	349640	49.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.50%	
62) 4-Bromofluorobenzene	12.40	95	127225	49.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.54%	

Target Compounds

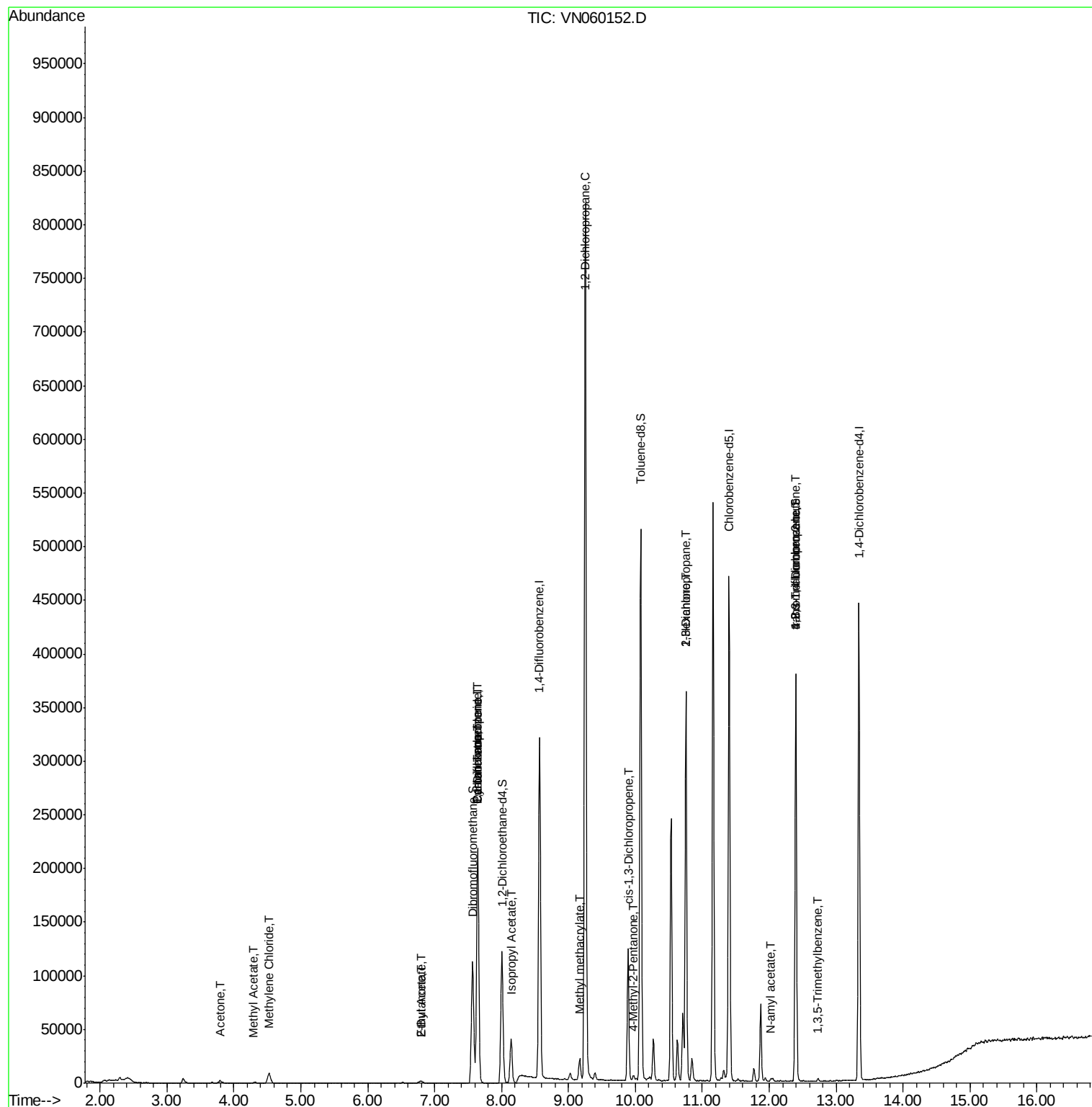
					Qvalue	
16) Acetone	3.79	43	4248	4.409	ug/l	97
18) Methyl Acetate	4.29	43	648	0.358	ug/l #	50
20) Methylene Chloride	4.53	84	7342	3.820	ug/l	94
25) 2-Butanone	6.81	43	804	0.663	ug/l #	46
31) Cyclohexane	7.64	56	3928	1.257	ug/l #	34
36) 1,1-Dichloropropene	7.64	75	12791	4.757	ug/l #	48
37) Ethyl Acetate	6.81	43	804	0.331	ug/l #	68
38) Carbon Tetrachloride	7.65	117	16937	5.800	ug/l #	15
43) Isopropyl Acetate	8.14	43	48949	11.783	ug/l #	90
45) 1,2-Dichloropropane	9.25	63	964	0.488	ug/l #	43
48) Methyl methacrylate	9.16	41	3269	1.754	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3571	1.485	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	22933	6.801	ug/l #	60
57) 1,3-Dichloropropane	10.75	76	3775	1.146	ug/l #	43
59) 2-Hexanone	10.75	43	52967	28.517	ug/l #	52
74) N-amyl acetate	12.03	43	2458	0.754	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	65221	28.148	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	1721	0.229	ug/l	88
81) trans-1,4-Dichloro-2-buten	12.40	75	65221	68.921	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.38	75	61	Below Cal	#	1

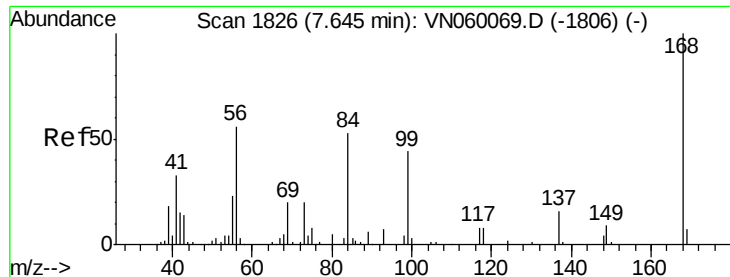
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Feb 20 01:17:18 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: VN060152.D

Acq: 19 Feb 2020 13:46

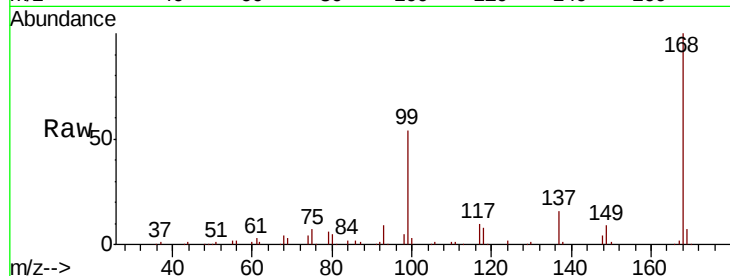
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 181526

Ion Ratio Lower Upper

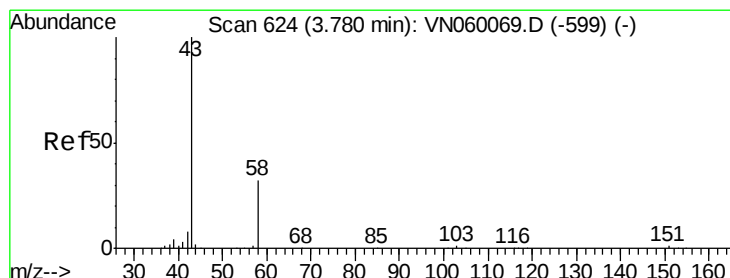
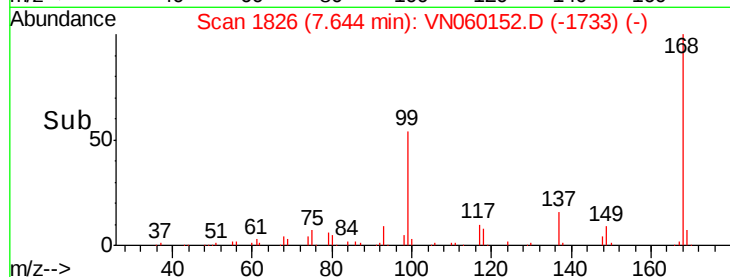
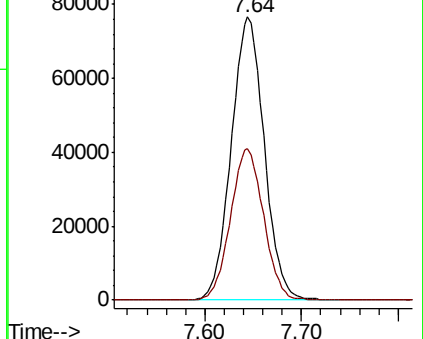
168 100

99 53.6 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 4.409 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060152.D

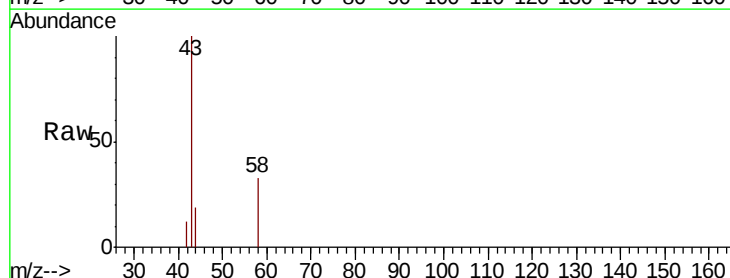
Acq: 19 Feb 2020 13:46

Tgt Ion: 43 Resp: 4248

Ion Ratio Lower Upper

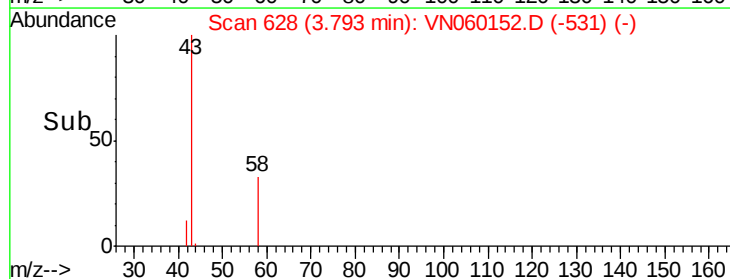
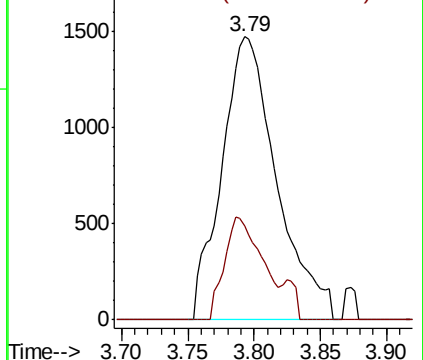
43 100

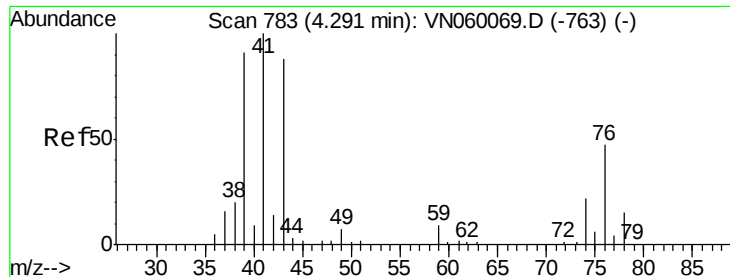
58 33.3 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

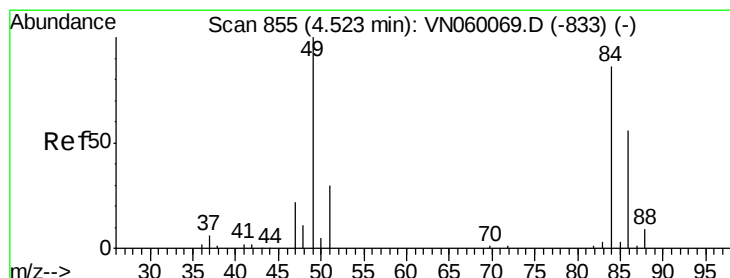
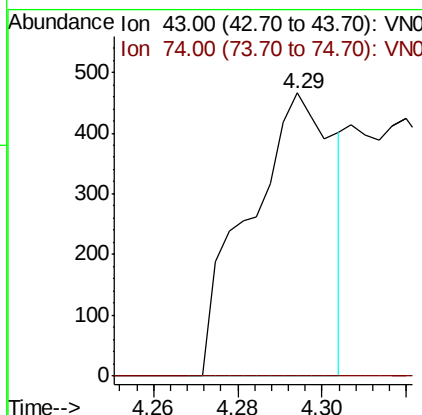
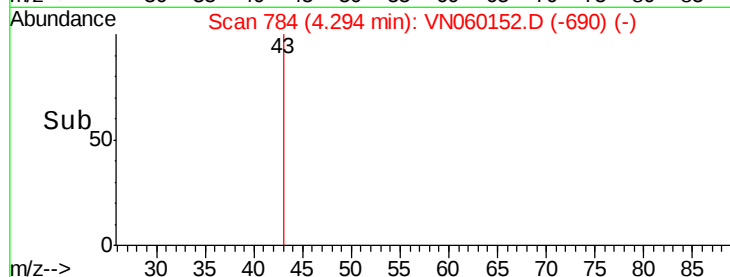
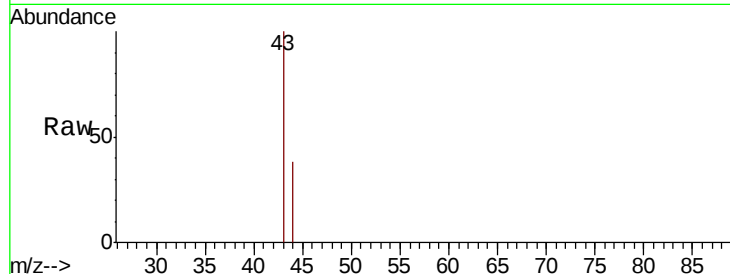




#18
Methyl Acetate
Concen: 0.358 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.00 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

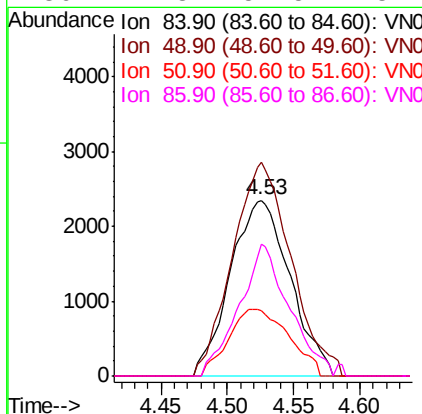
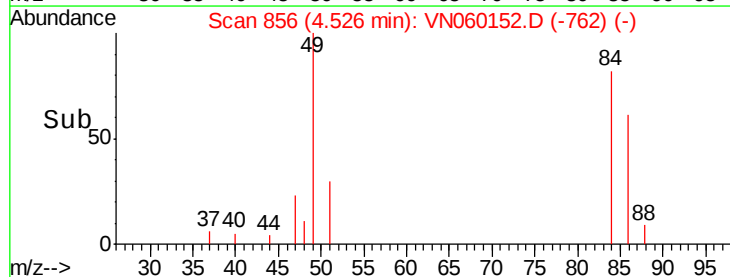
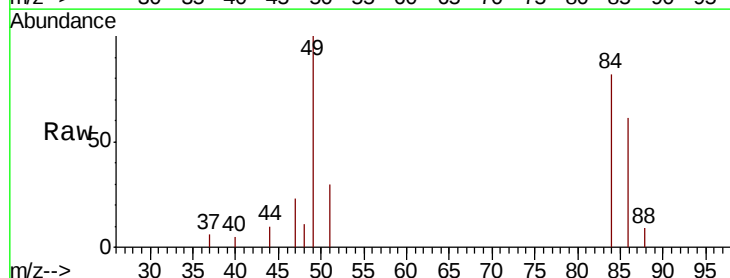
Instrument :
MSVOA_N
ClientSampled :

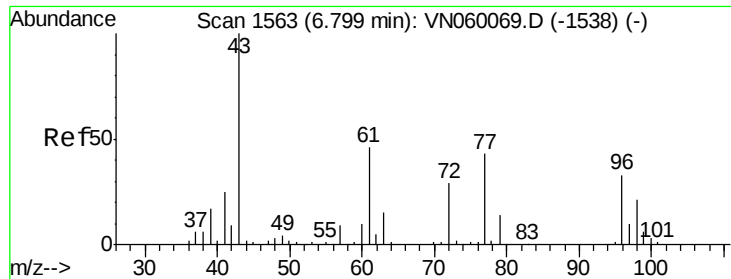
Tot Ion: 43 Resp: 648
Ion Ratio Lower Upper
43 100
74 0.0 20.3 30.5#



#20
Methylene Chloride
Concen: 3.820 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

Tgt Ion: 84 Resp: 7342
Ion Ratio Lower Upper
84 100
49 121.6 93.4 140.0
51 36.9 28.4 42.6
86 74.8 52.5 78.7

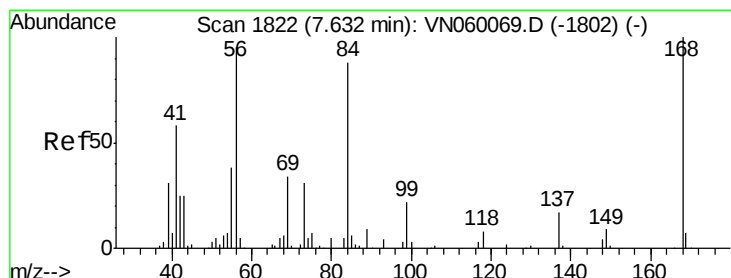
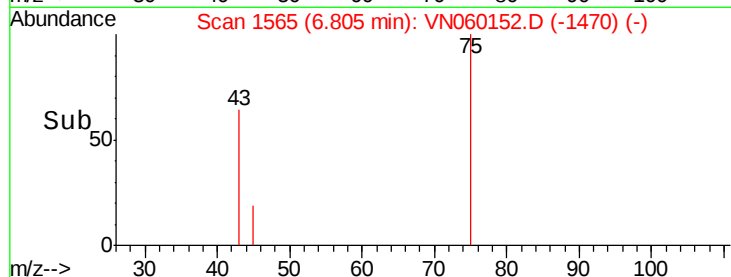
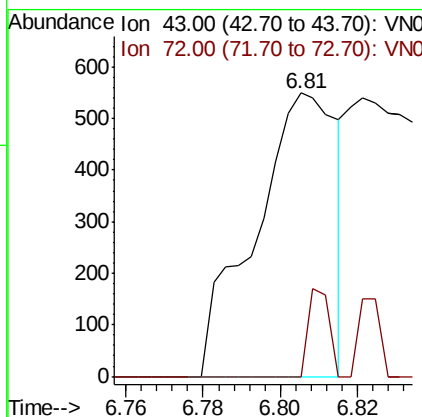
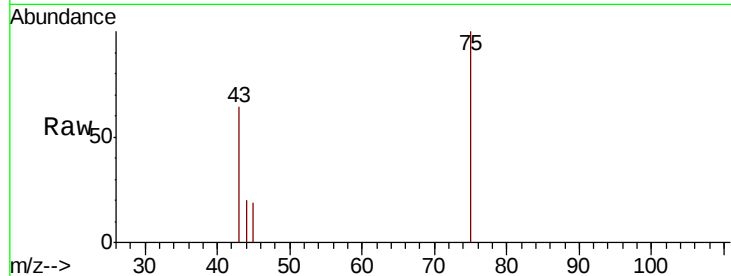




#25
2-Butanone
Concen: 0.663 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.01 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

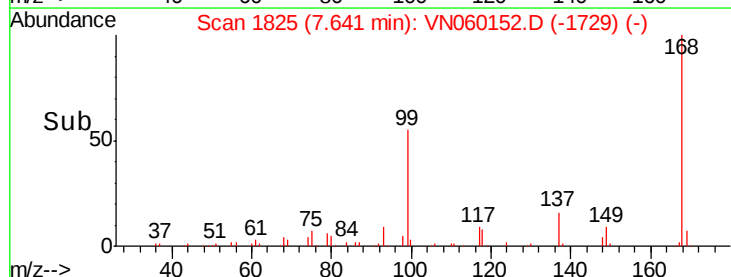
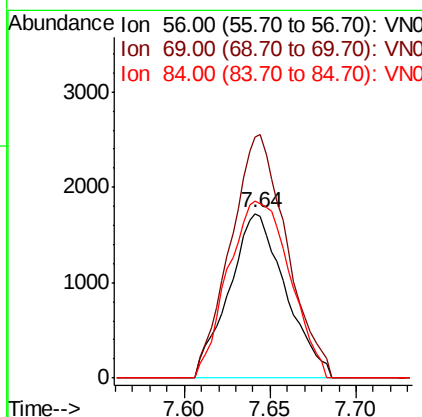
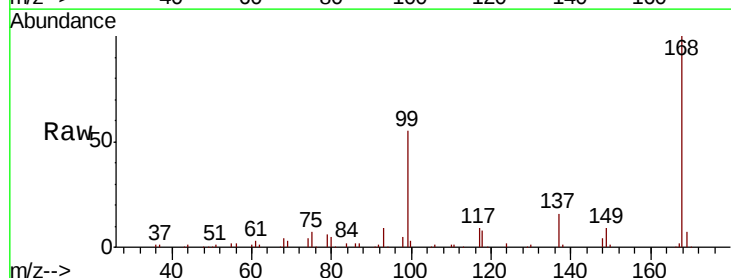
Instrument :
MSVOA_N
ClientSampled :

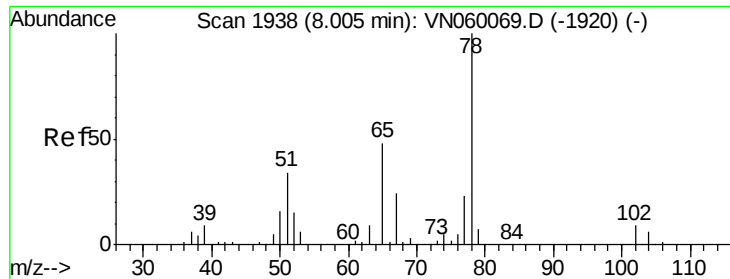
Tot Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
72 0.0 23.3 34.9#



#31
Cyclohexane
Concen: 1.257 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

Tgt Ion: 56 Resp: 3928
Ion Ratio Lower Upper
56 100
69 146.3 28.3 42.5#
84 107.6 72.6 108.8

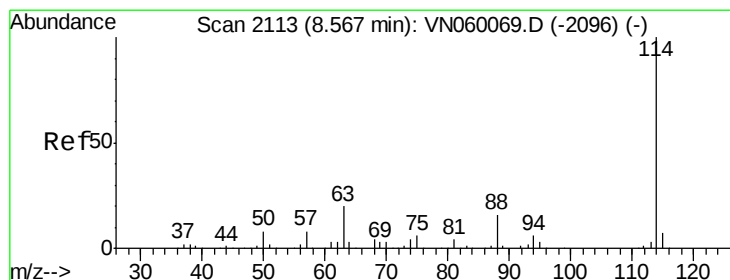
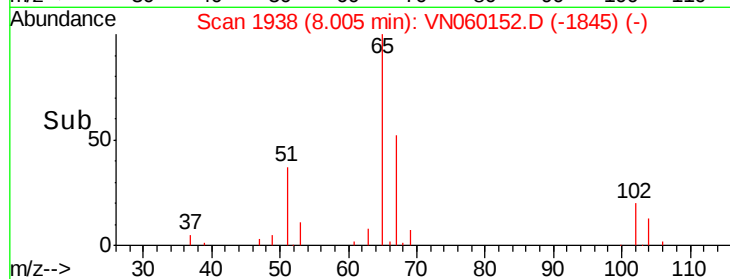
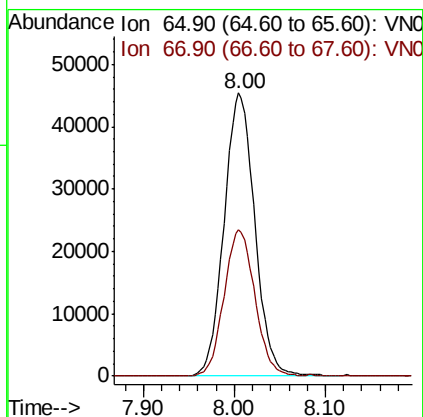
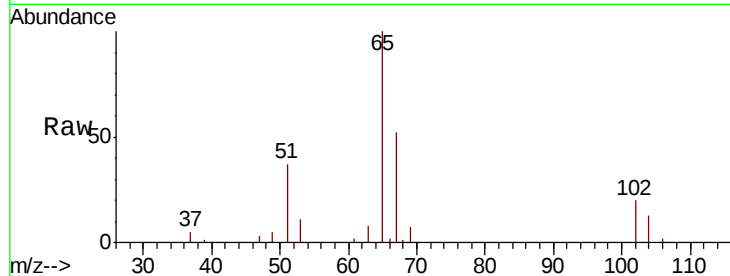




#33
 1,2-Dichloroethane-d4
 Concen: 48.181 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. -0.00 min
 Lab File: VN060152.D
 Acq: 19 Feb 2020 13:46

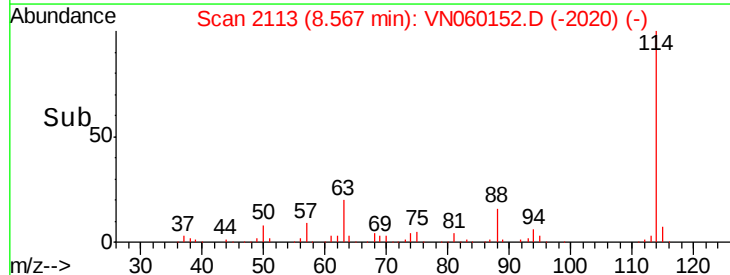
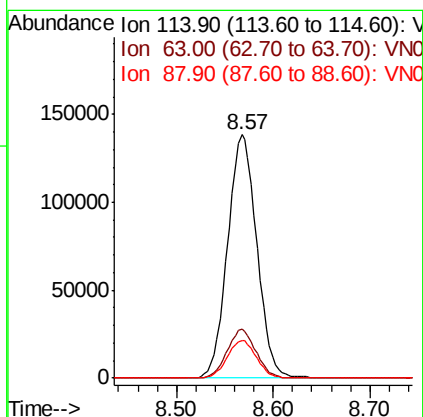
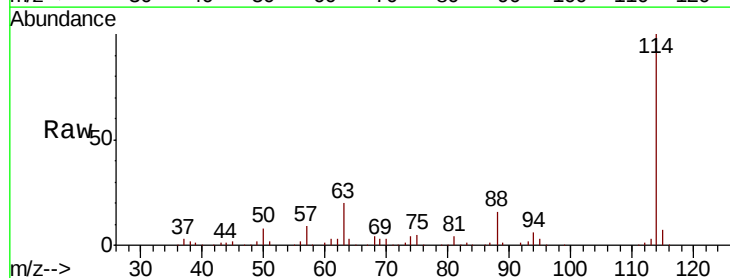
Instrument :
 MSVOA_N
 ClientSampleId :

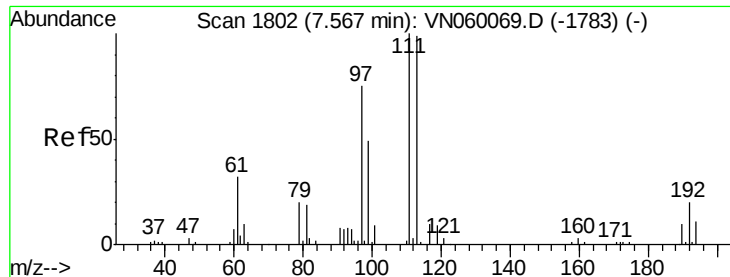
Tot Ion: 65 Resp: 106426
 Ion Ratio Lower Upper
 65 100
 67 51.9 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN060152.D
 Acq: 19 Feb 2020 13:46

Tgt Ion: 114 Resp: 290303
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 15.5 0.0 31.6

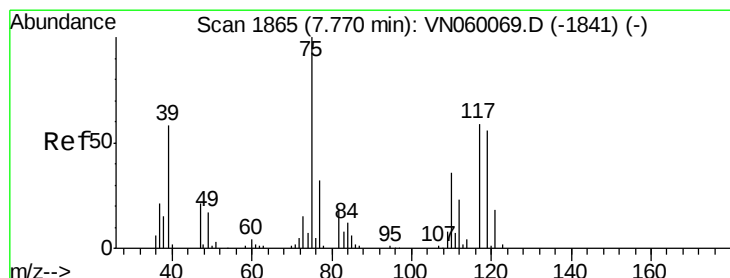
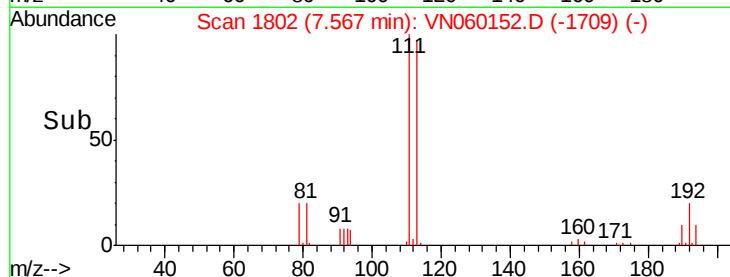
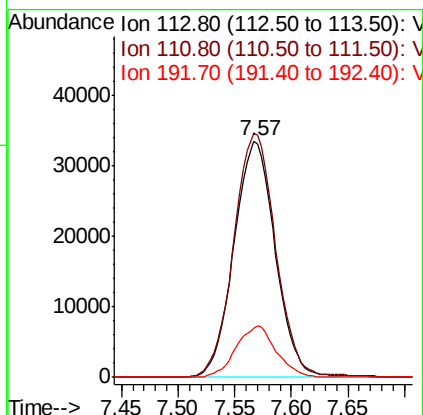
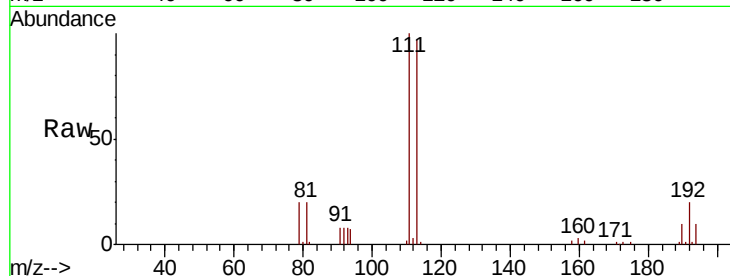




#35
 Dibromofluoromethane
 Concen: 47.653 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060152.D
 Acq: 19 Feb 2020 13:46

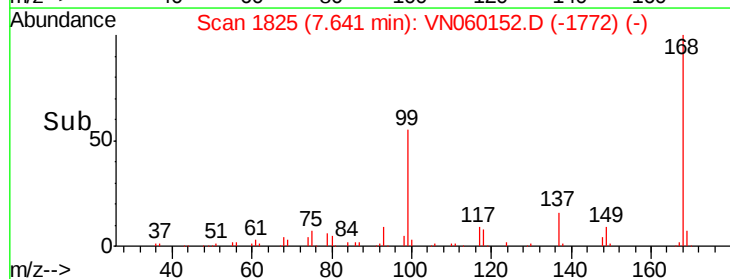
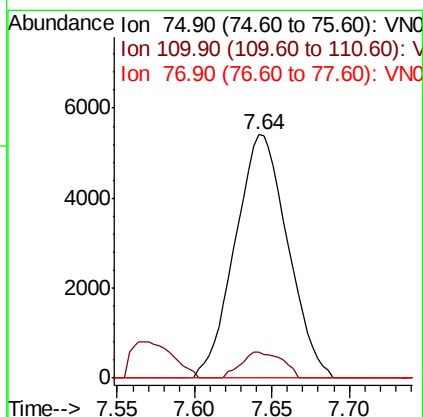
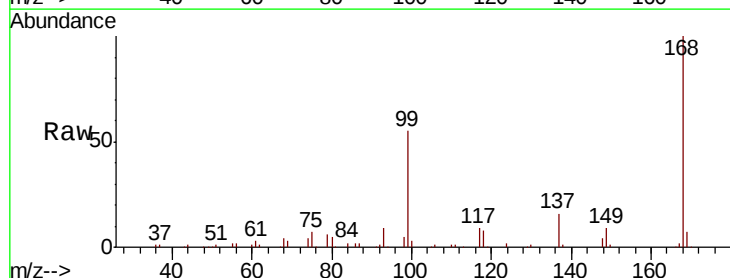
Instrument :
 MSVOA_N
 ClientSampleId :

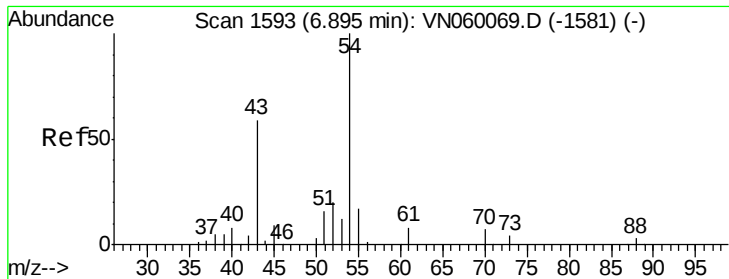
Tot Ion:113 Resp: 85036
 Ion Ratio Lower Upper
 113 100
 111 104.6 81.4 122.2
 192 20.9 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.757 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060152.D
 Acq: 19 Feb 2020 13:46

Tgt Ion: 75 Resp: 12791
 Ion Ratio Lower Upper
 75 100
 110 8.3 18.1 54.3#
 77 0.0 25.1 37.7#

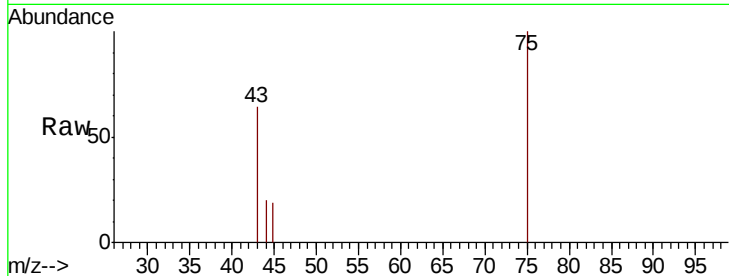




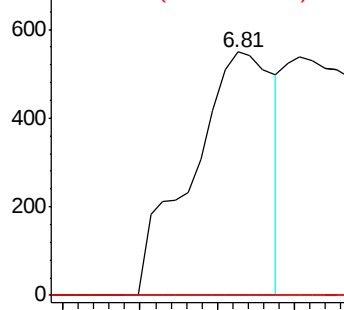
#37
Ethyl Acetate
Concen: 0.331 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. -0.09 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

Instrument :
MSVOA_N
ClientSampleId :

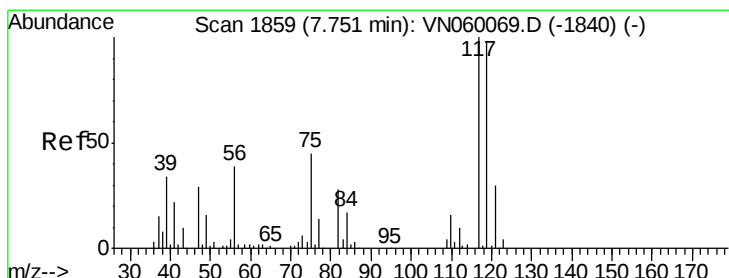
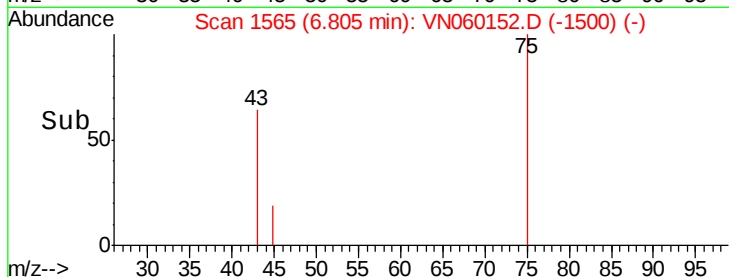
Tot Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
61 0.0 11.4 17.2#
70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

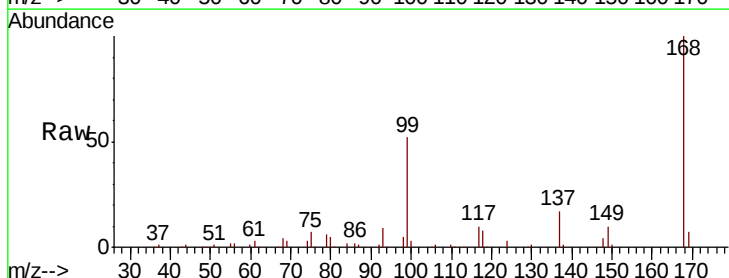


Time--> 6.76 6.78 6.80 6.82

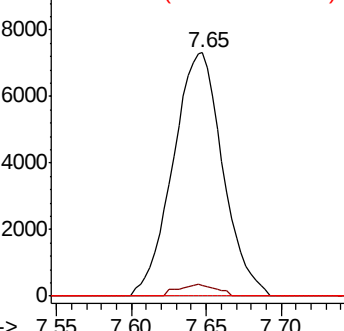


#38
Carbon Tetrachloride
Concen: 5.800 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.10 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

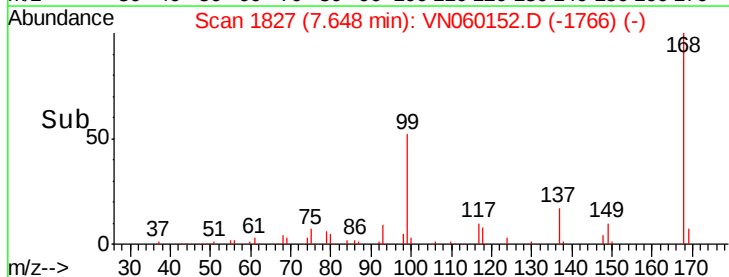
Tgt Ion: 117 Resp: 16937
Ion Ratio Lower Upper
117 100
119 4.6 78.2 117.4#
121 0.0 24.2 36.2#

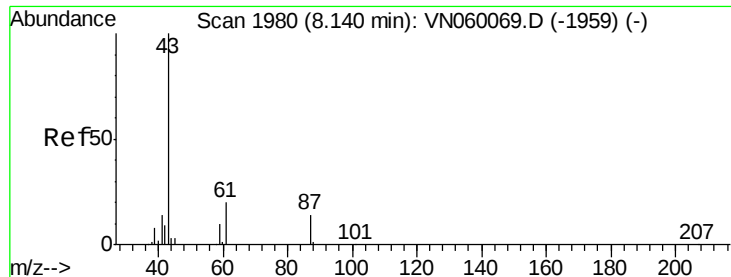


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V



Time--> 7.55 7.60 7.65 7.70





#43

Isopropyl Acetate

Concen: 11.783 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

ClientSampled :

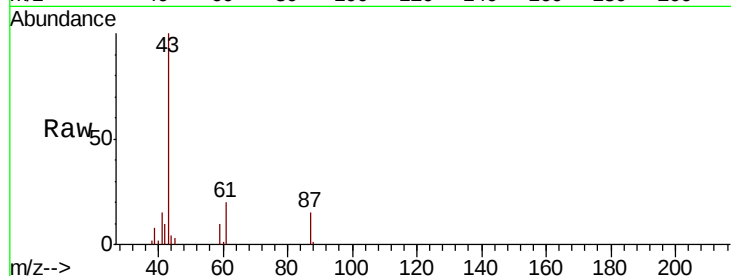
Tot Ion: 43 Resp: 48949

Ion Ratio Lower Upper

43 100

61 19.5 21.8 32.6#

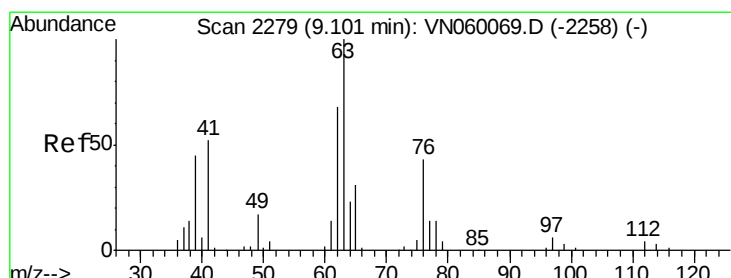
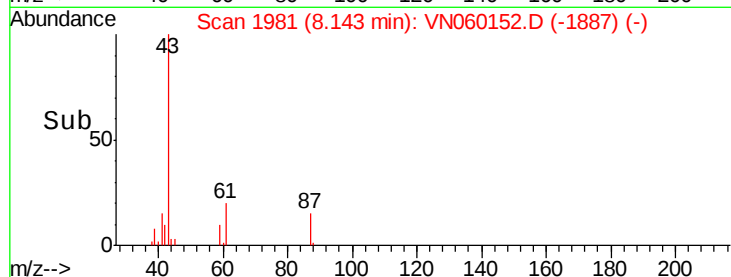
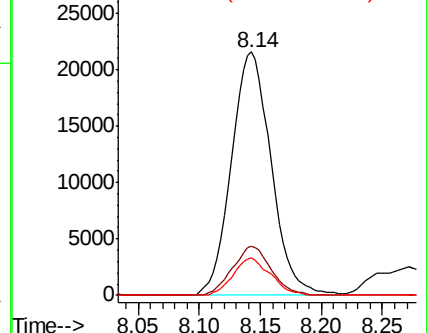
87 14.3 11.4 17.2



Abundance Ion 43.00 (42.70 to 43.70): VN060069.D (-1959) (-)

Ion 61.00 (60.70 to 61.70): VN060069.D (-1959) (-)

Ion 87.00 (86.70 to 87.70): VN060069.D (-1959) (-)



#45

1,2-Dichloropropane

Concen: 0.488 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060152.D

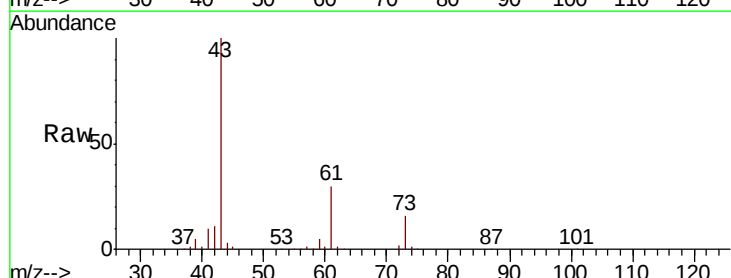
Acq: 19 Feb 2020 13:46

Tgt Ion: 63 Resp: 964

Ion Ratio Lower Upper

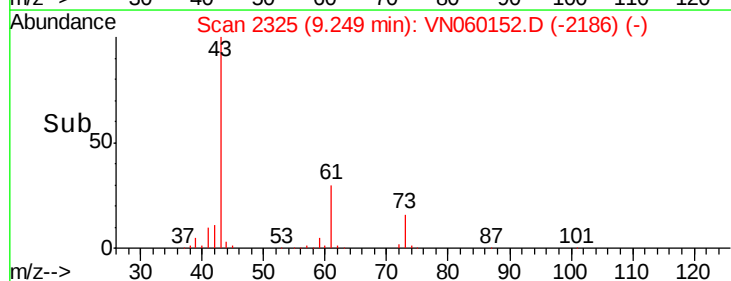
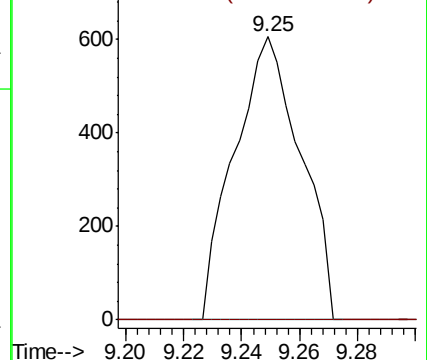
63 100

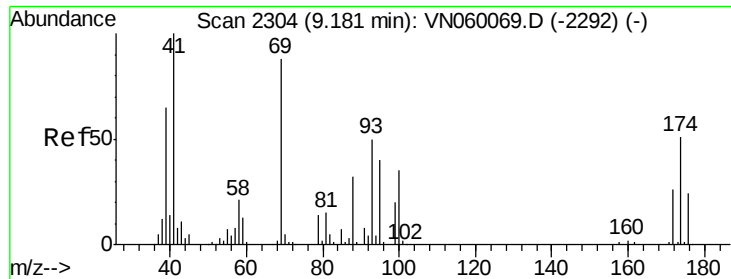
65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VN060069.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN060069.D (-2258) (-)

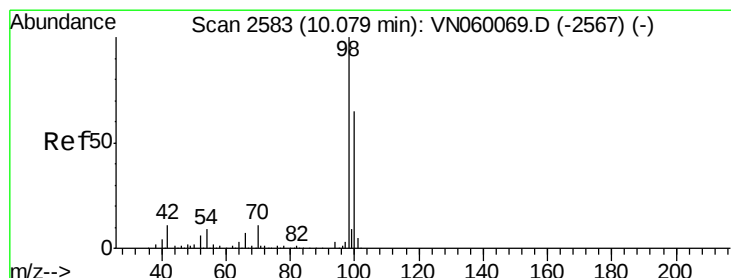
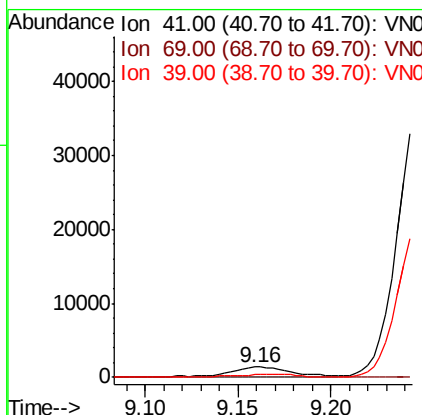
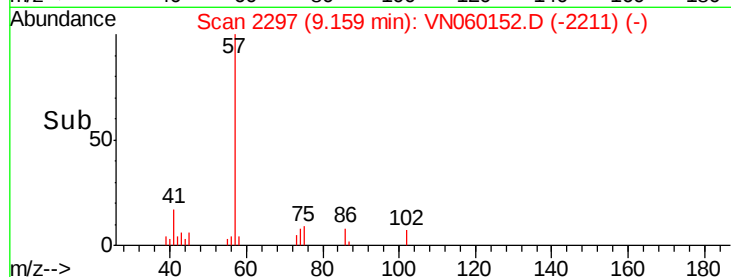
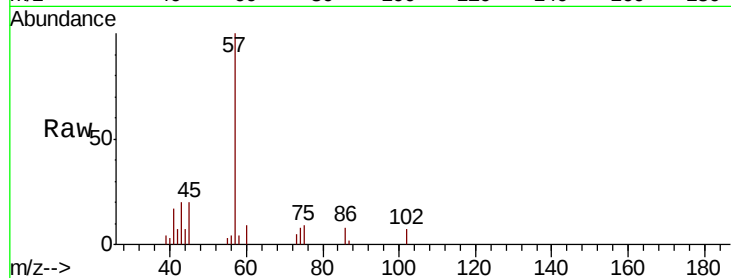




#48
Methvl methacrylate
Concen: 1.754 ug/l
RT: 9.16 min Scan# 2297
Delta R.T. -0.02 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

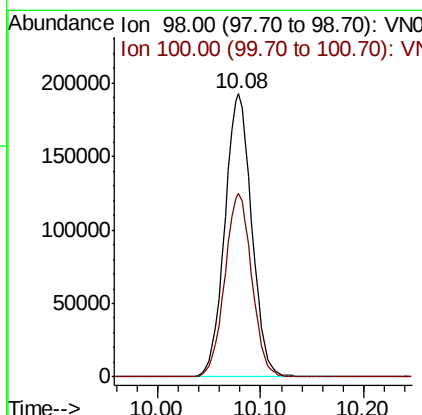
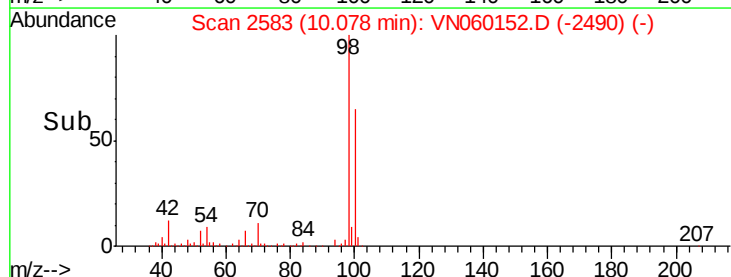
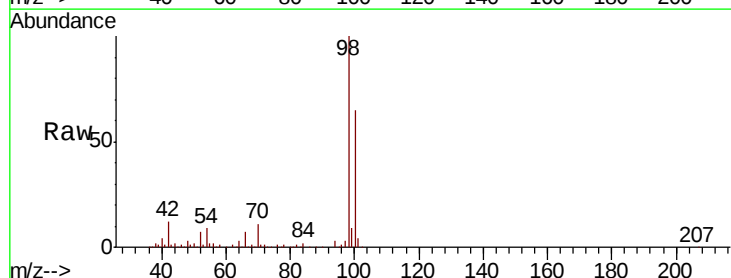
Instrument :
MSVOA_N
ClientSampled :

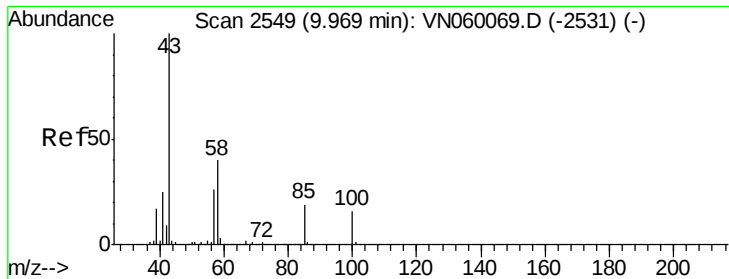
Tot Ion: 41 Resp: 3269
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#



#50
Toluene-d8
Concen: 49.755 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060152.D
Acq: 19 Feb 2020 13:46

Tgt Ion: 98 Resp: 349640
Ion Ratio Lower Upper
98 100
100 64.8 51.7 77.5





#51

4-Methyl-2-Pentanone

Concen: 1.485 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

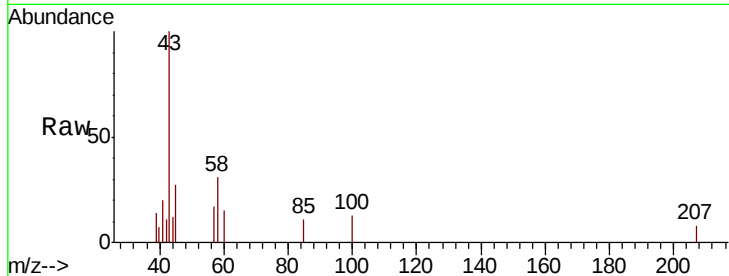
ClientSampled :

Tot Ion: 43 Resp: 3571

Ion Ratio Lower Upper

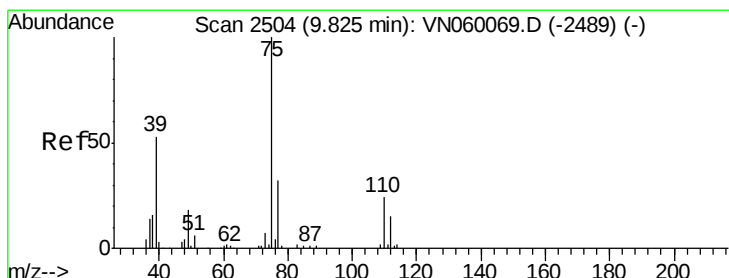
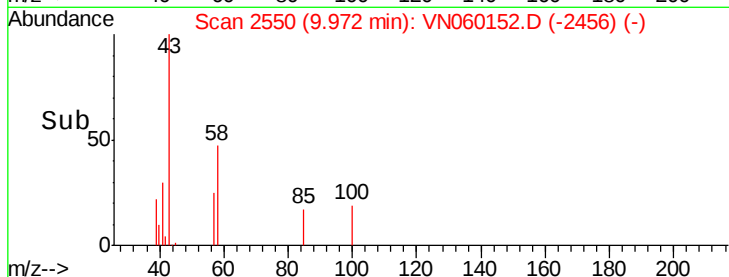
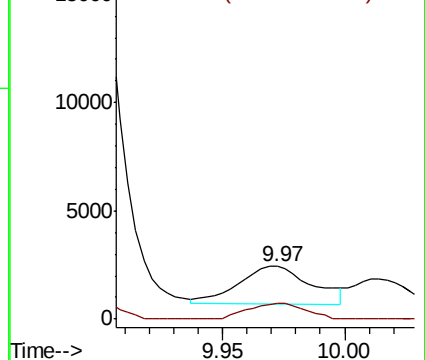
43 100

58 33.4 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) (-)



#54

cis-1,3-Dichloropropene

Concen: 6.801 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

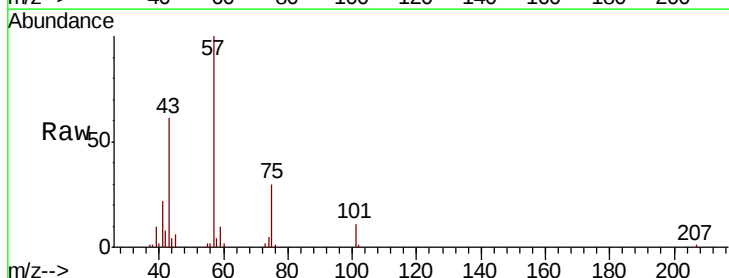
Tgt Ion: 75 Resp: 22933

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

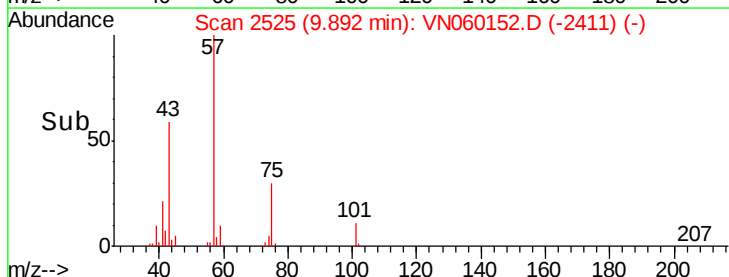
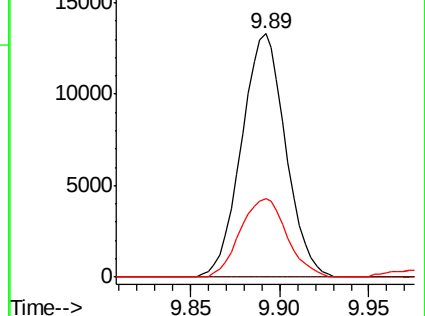
39 32.1 42.2 63.4#

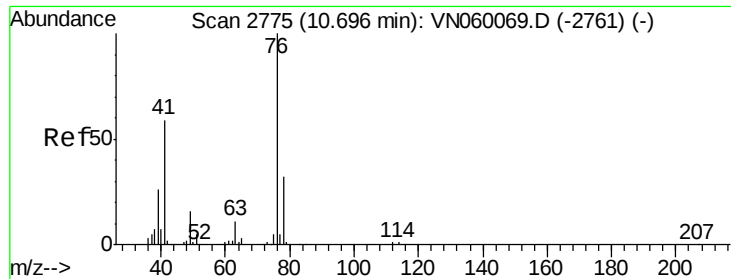


Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060069.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060069.D (-2489) (-)





#57

1,3-Dichloropropane

Concen: 1.146 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

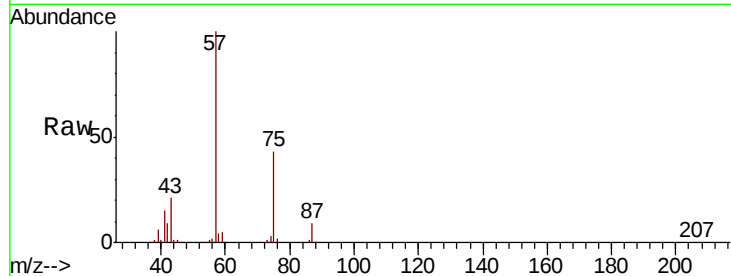
ClientSampled :

Tot Ion: 76 Resp: 3775

Ion Ratio Lower Upper

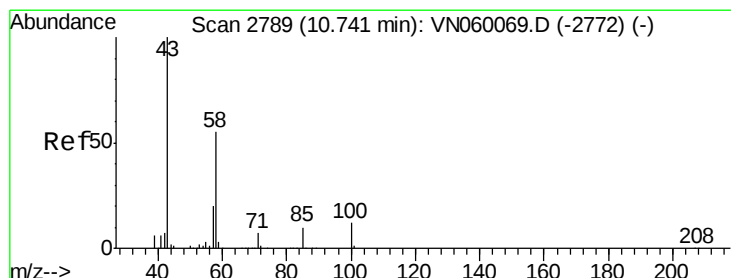
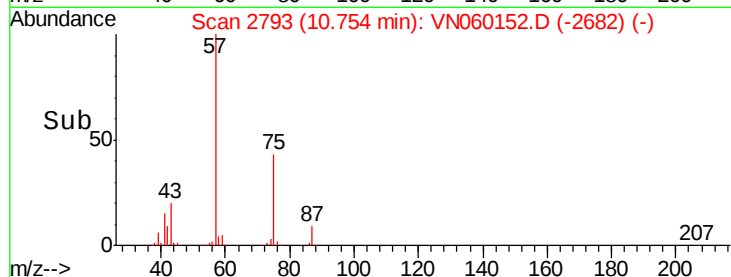
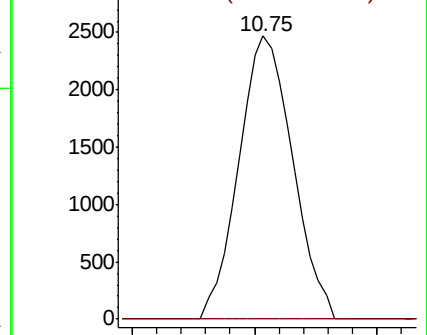
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 28.517 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060152.D

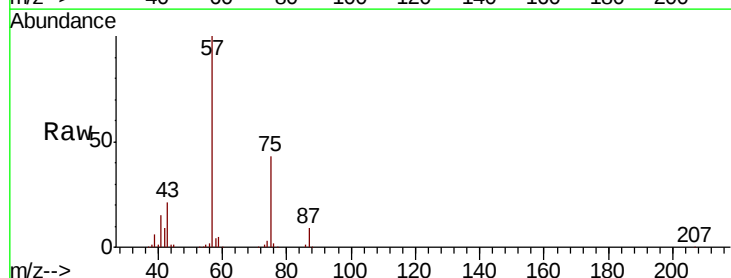
Acq: 19 Feb 2020 13:46

Tgt Ion: 43 Resp: 52967

Ion Ratio Lower Upper

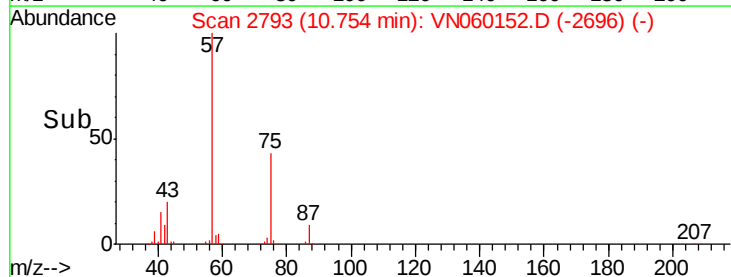
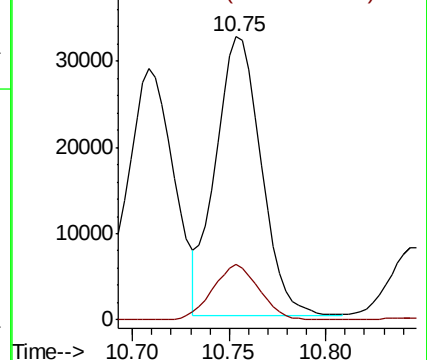
43 100

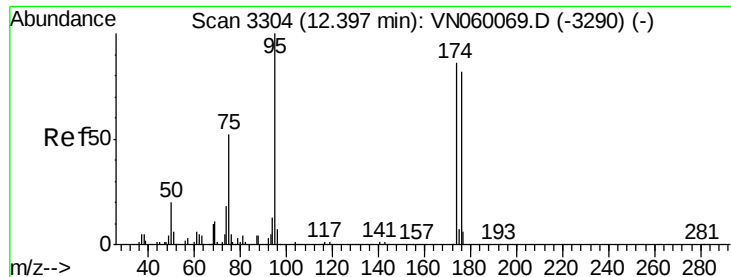
58 20.1 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 49.270 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

ClientSampled :

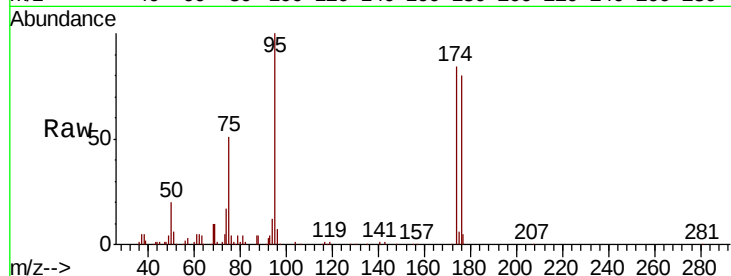
Tot Ion: 95 Resp: 127225

Ion Ratio Lower Upper

95 100

174 84.3 0.0 169.8

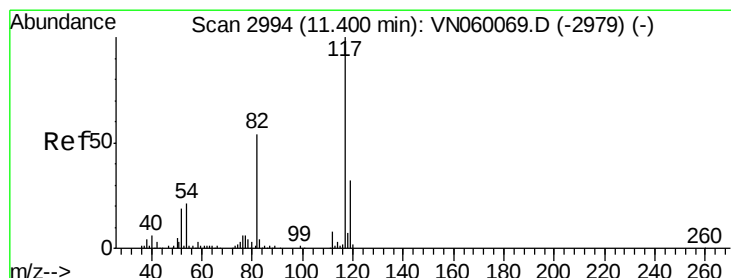
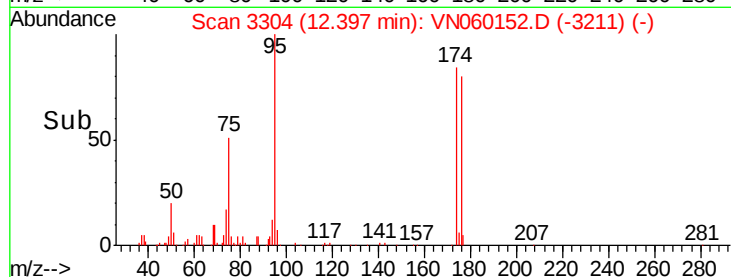
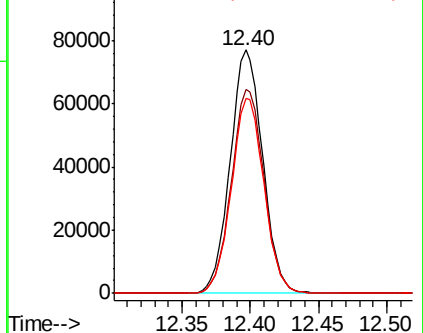
176 80.6 0.0 164.8



Abundance Ion 94.90 (94.60 to 95.60): VN060069.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060069.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060069.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

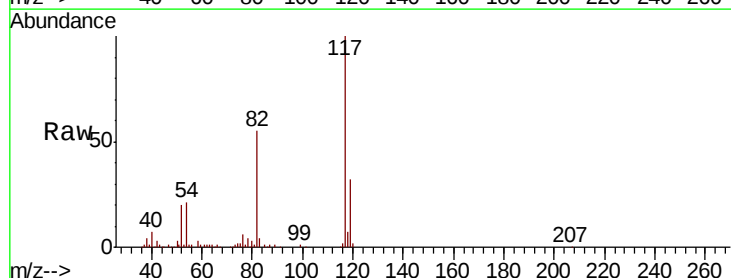
Tgt Ion: 117 Resp: 270879

Ion Ratio Lower Upper

117 100

82 54.6 43.4 65.0

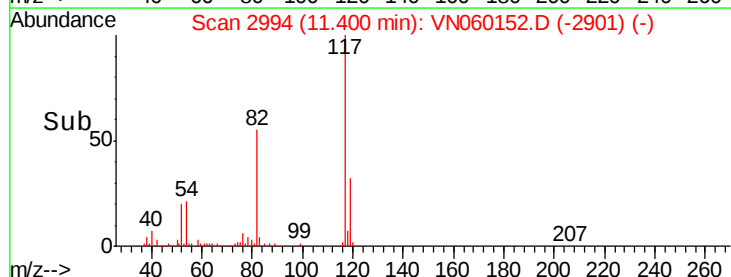
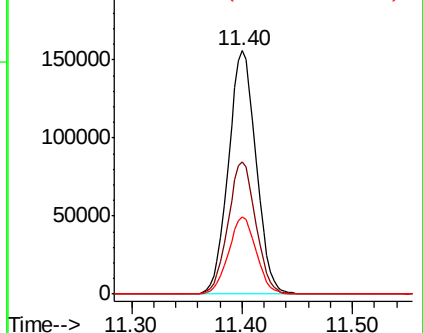
119 31.6 25.8 38.6

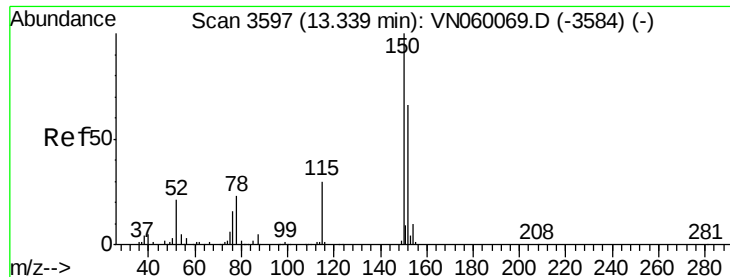


Abundance Ion 116.90 (116.60 to 117.60): VN060069.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060069.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060069.D (-2979) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

ClientSampleId :

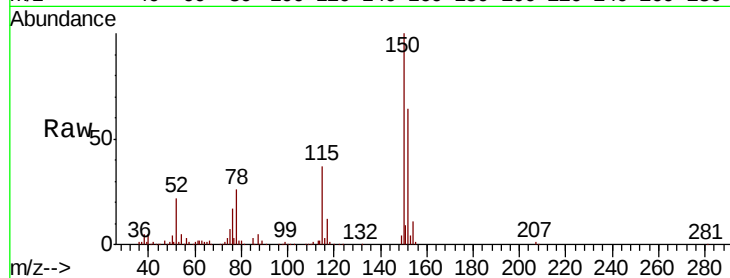
Tot Ion:152 Resp: 121108

Ion Ratio Lower Upper

152 100

115 57.7 28.9 86.8

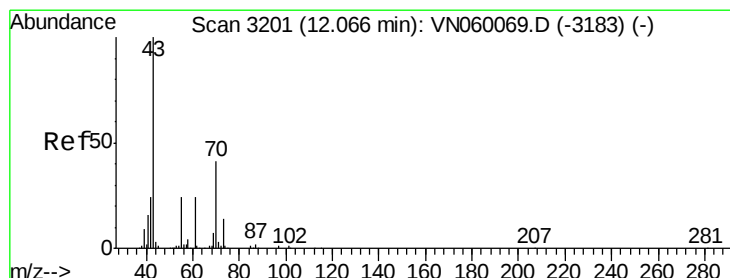
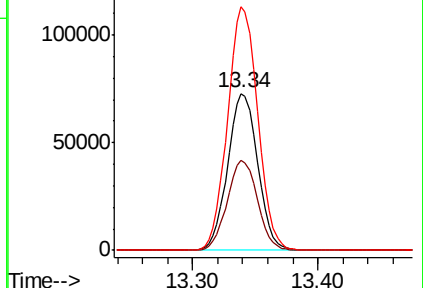
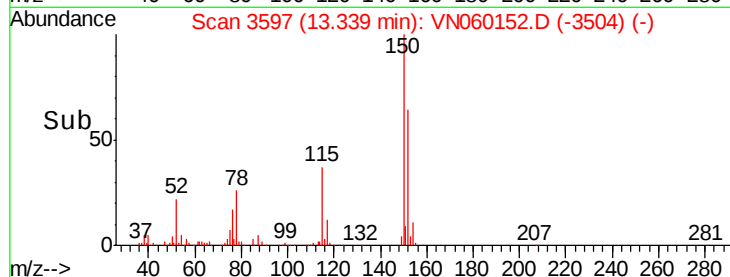
150 155.9 0.0 342.4



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-ethyl acetate

Concen: 0.754 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Tgt Ion: 43 Resp: 2458

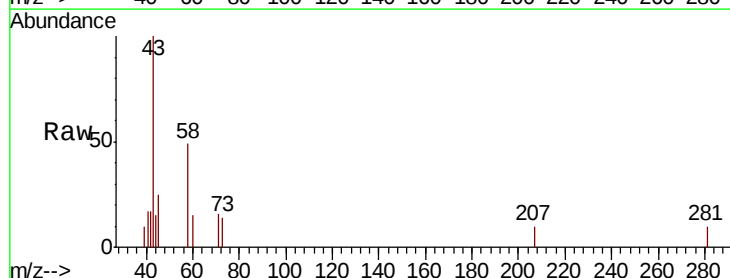
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

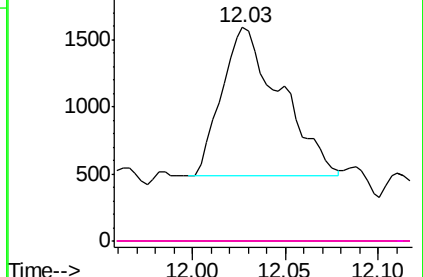
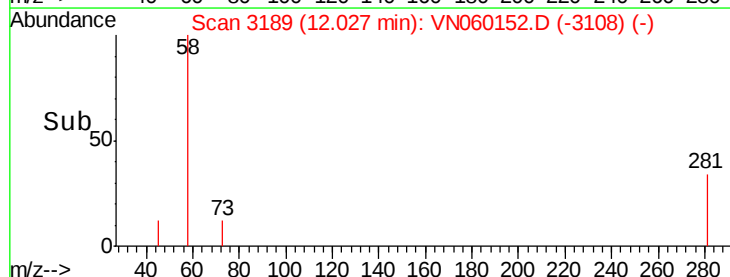


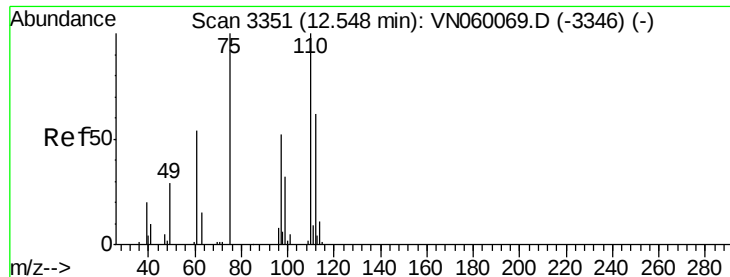
Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 28.148 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

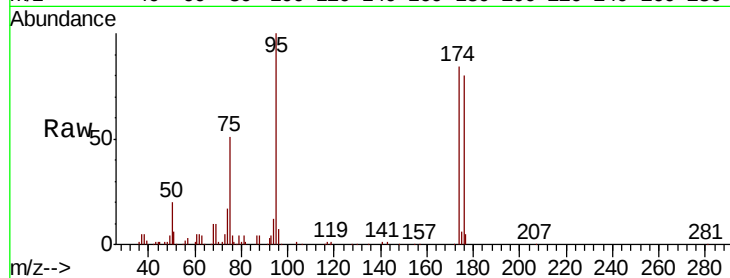
ClientSampleId :

Tot Ion: 75 Resp: 65221

Ion Ratio Lower Upper

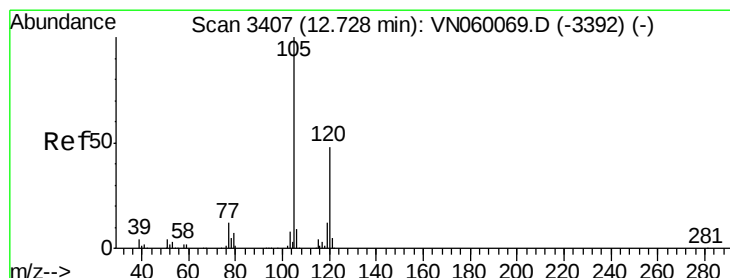
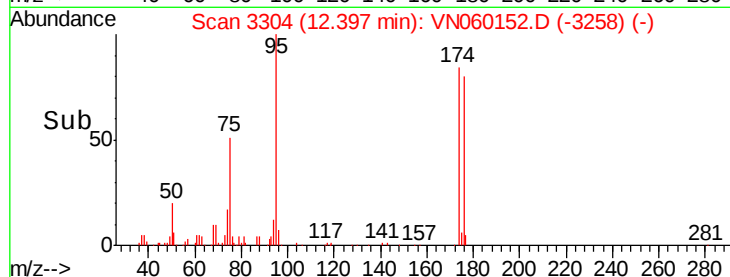
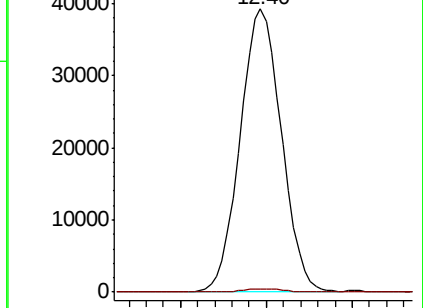
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060069.D (-3346) (-)

Ion 77.00 (76.70 to 77.70): VN060069.D (-3346) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.229 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060152.D

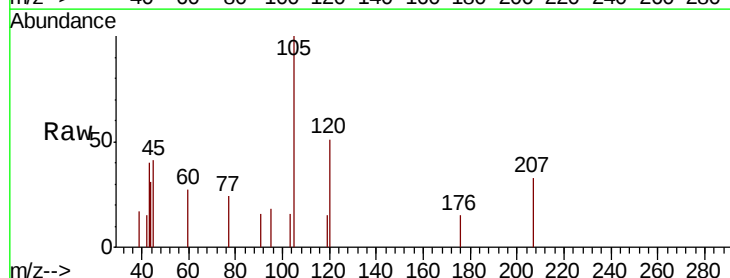
Acq: 19 Feb 2020 13:46

Tgt Ion: 105 Resp: 1721

Ion Ratio Lower Upper

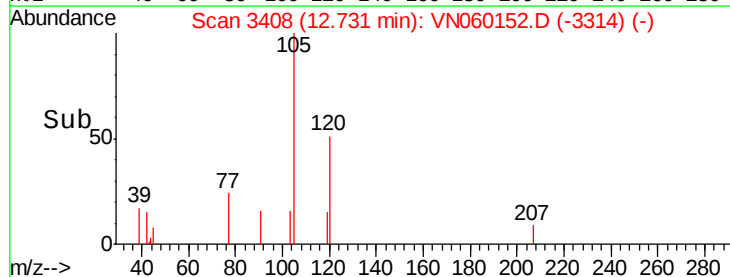
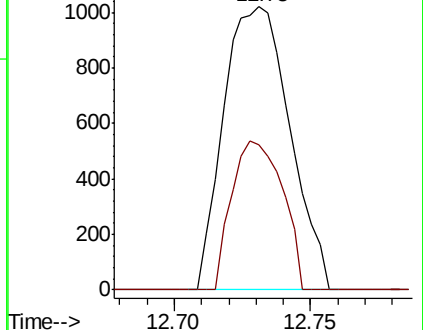
105 100

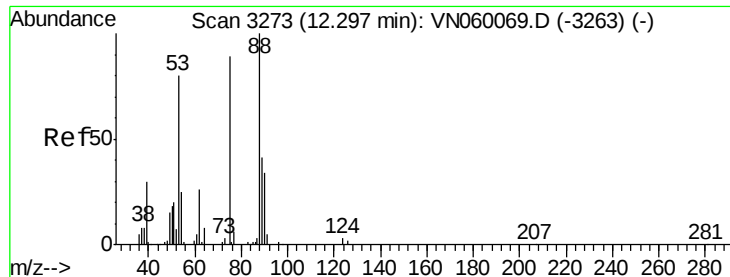
120 40.3 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): VN060069.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN060069.D (-3392) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 68.921 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

Instrument :

MSVOA_N

ClientSampled :

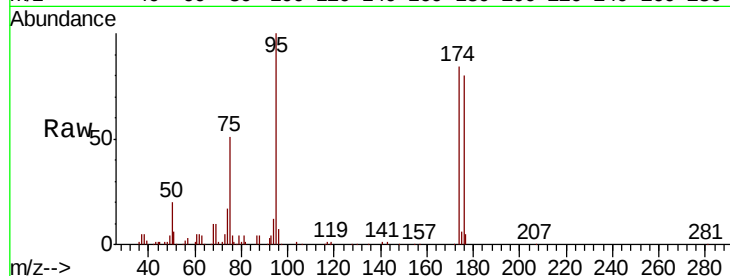
Tot Ion: 75 Resp: 65221

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

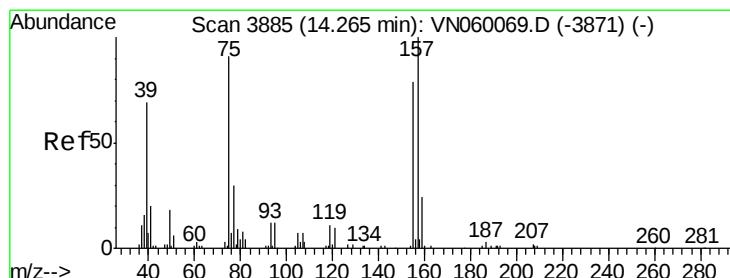
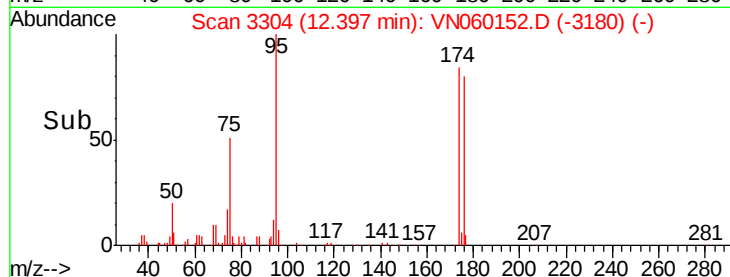
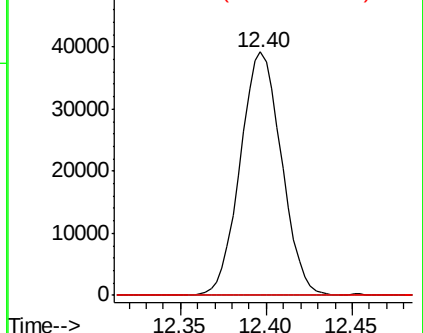
89 0.0 37.0 55.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.38 min Scan# 3921

Delta R.T. 0.12 min

Lab File: VN060152.D

Acq: 19 Feb 2020 13:46

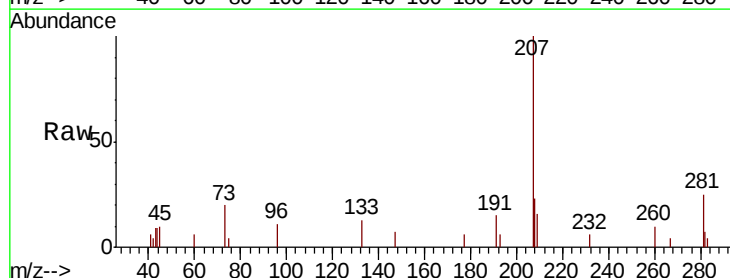
Tgt Ion: 75 Resp: 61

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

