

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050250.D
 Acq On : 1 Aug 2018 15:35
 Operator : MD\SY
 Sample : PB111649ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 02 00:55:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 26 18:10:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	652183	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1099999	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	926691	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	343311	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	473178	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
35) Dibromofluoromethane	7.59	113	420291	46.80	ug/l	0.00
Spiked Amount			Recovery	=	93.60%	
50) Toluene-d8	10.09	98	1487703	45.06	ug/l	0.00
Spiked Amount			Recovery	=	90.12%	
62) 4-Bromofluorobenzene	12.40	95	412131	37.91	ug/l	0.00
Spiked Amount			Recovery	=	75.82%	

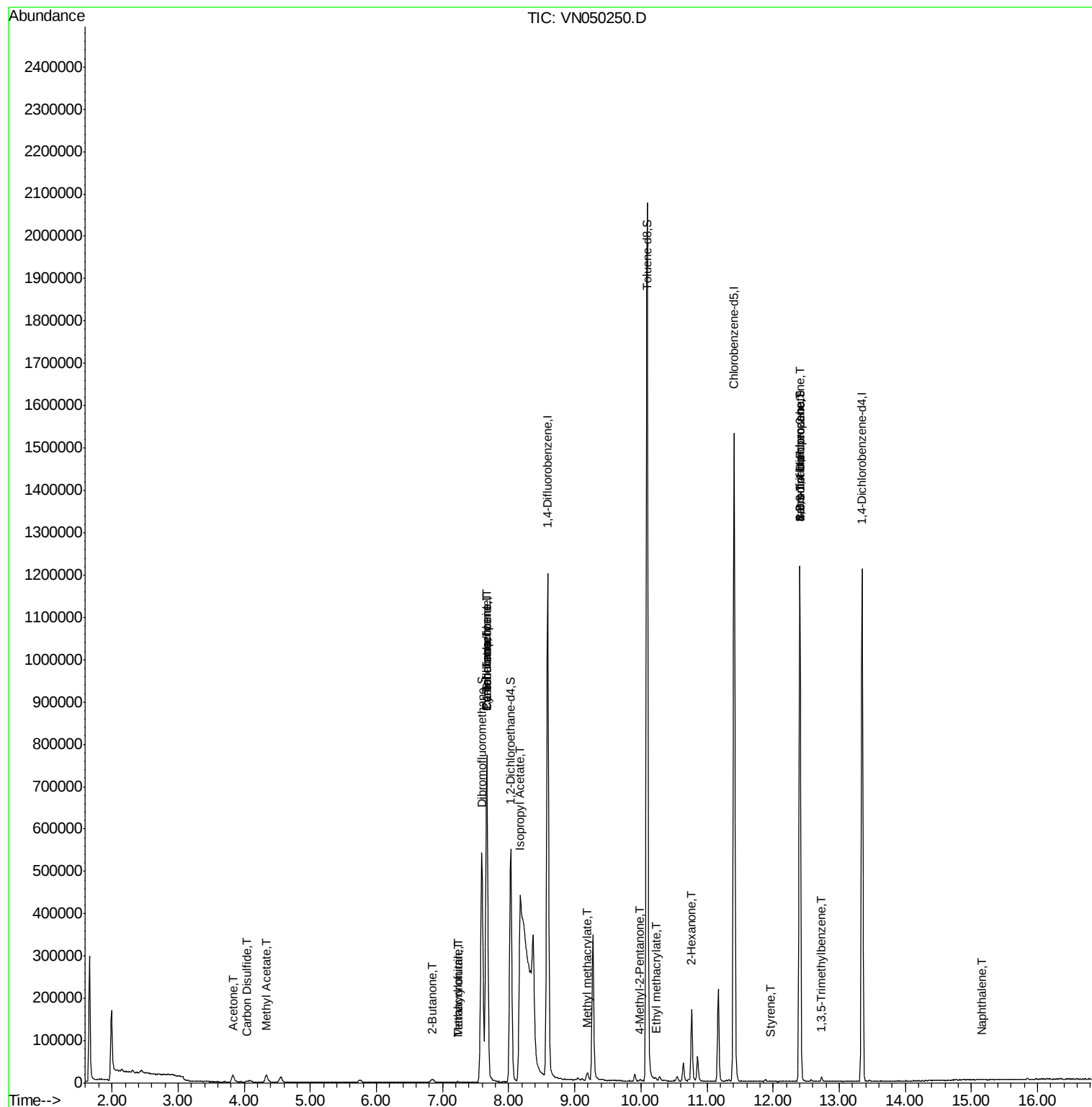
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	59	Below Cal	#	71
16) Acetone	3.83	43	26770	8.29	ug/l	97
17) Carbon Disulfide	4.05	76	5550	0.24	ug/l	# 75
18) Methyl Acetate	4.34	43	29905	2.02	ug/l	96
20) Methylene Chloride	4.54	84	4541	Below Cal		88
25) 2-Butanone	6.84	43	2628	0.76	ug/l	# 86
29) Tetrahydrofuran	7.23	42	1790	0.80	ug/l	# 54
31) Cyclohexane	7.67	56	12405	0.92	ug/l	# 1
36) 1,1-Dichloropropene	7.67	75	48176	3.89	ug/l	# 48
38) Carbon Tetrachloride	7.67	117	59884	4.55	ug/l	# 17
41) Methacrylonitrile	7.23	41	877	2.93	ug/l	# 23
43) Isopropyl Acetate	8.17	43	1163772	71.97	ug/l	# 72
48) Methyl methacrylate	9.18	41	10212	1.37	ug/l	# 21
51) 4-Methyl-2-Pentanone	9.99	43	4429	0.52	ug/l	# 77
56) Ethyl methacrylate	10.23	69	3437	2.31	ug/l	# 60
59) 2-Hexanone	10.77	43	24158	8.96	ug/l	# 57
70) Styrene	11.97	104	277	0.93	ug/l	# 25
71) Bromoform	12.40	173	3703	0.57	ug/l	# 1
75) 1,1,2,2-Tetrachloroethane	12.40	83	266	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	200987	31.50	ug/l	# 100
80) 1,3,5-Trimethylbenzene	12.73	105	4416	0.21	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	200987	99.92	ug/l	# 13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	258	Below Cal	#	1
95) Naphthalene	15.14	128	601	4.45	ug/l	# 69

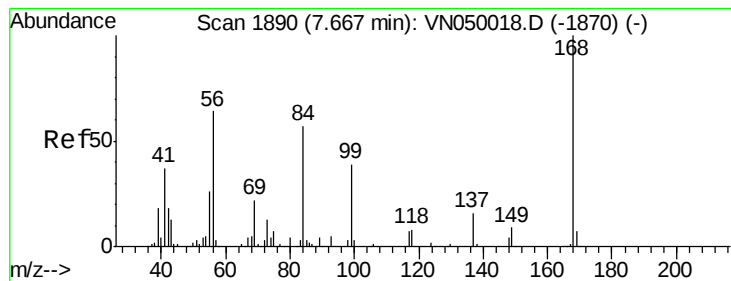
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 19 Sample Multiplier: 1

Instrument :
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ClientSampleId :

Quant Time: Aug 02 00:55:10 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072418W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 26 18:10:10 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

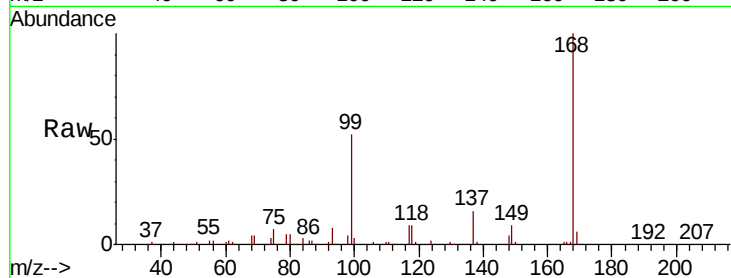
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 652183

Ion Ratio Lower Upper

168 100

99 51.9 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): VN050018.D (-1870) (-)

Ion 98.90 (98.60 to 99.60): VN050018.D (-1870) (-)

7.67

250000

200000

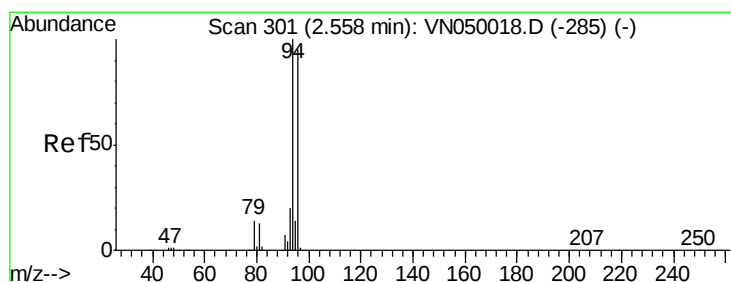
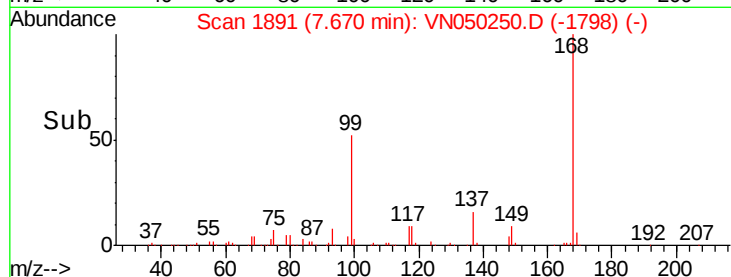
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#5

Bromomethane

Concen: Below Cal

RT: 2.54 min Scan# 295

Delta R.T. -0.01 min

Lab File: VN050250.D

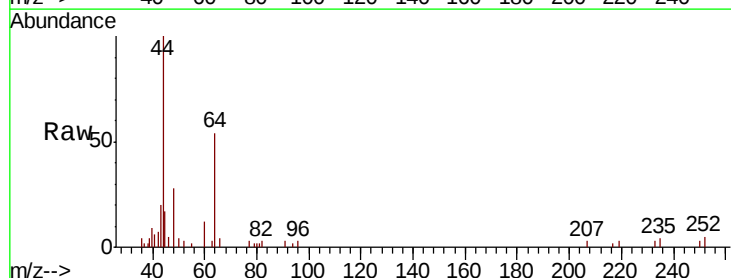
Acq: 1 Aug 2018 15:35

Tgt Ion: 94 Resp: 59

Ion Ratio Lower Upper

94 100

96 121.3 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VN050018.D (-285) (-)

Ion 95.90 (95.60 to 96.60): VN050018.D (-285) (-)

2.54

200

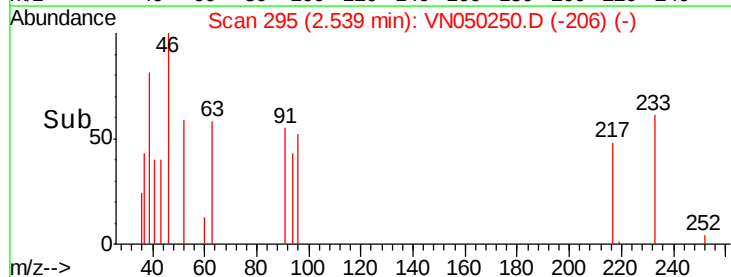
150

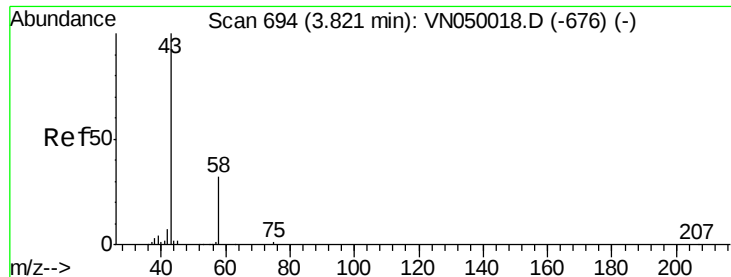
100

50

0

Time--> 2.53 2.54 2.55





#16

Acetone

Concen: 8.29 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

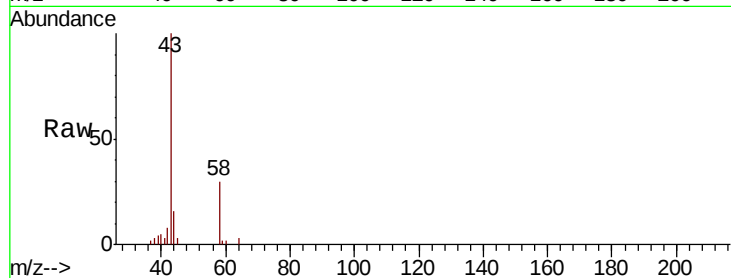
ClientSampled :

Tot Ion: 43 Resp: 26770

Ion Ratio Lower Upper

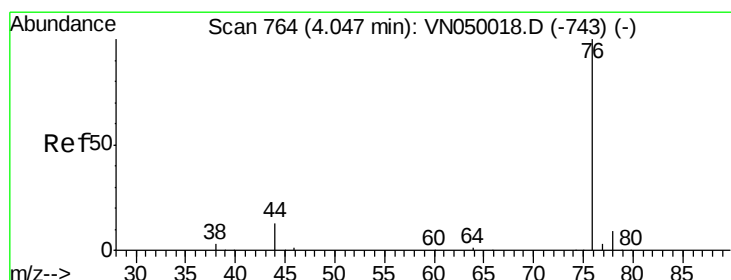
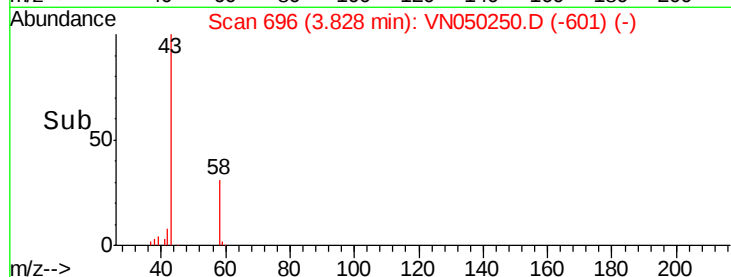
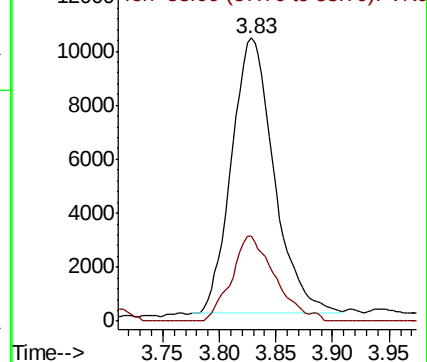
43 100

58 30.7 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.24 ug/l

RT: 4.05 min Scan# 764

Delta R.T. -0.00 min

Lab File: VN050250.D

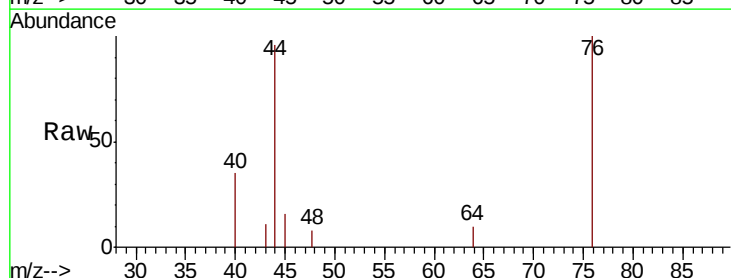
Acq: 1 Aug 2018 15:35

Tgt Ion: 76 Resp: 5550

Ion Ratio Lower Upper

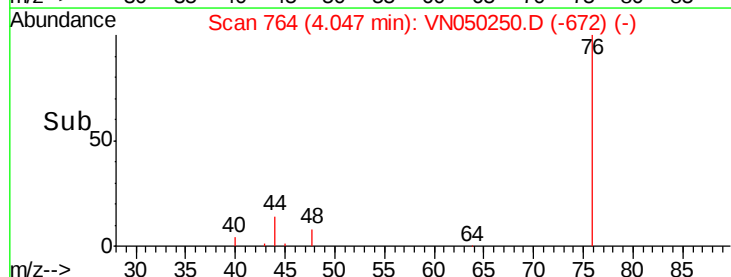
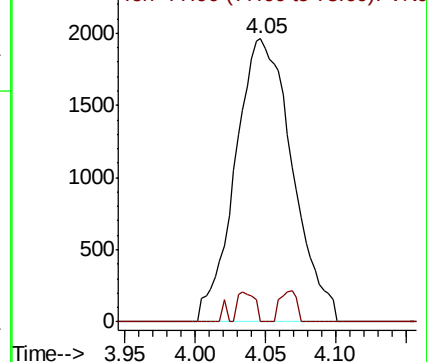
76 100

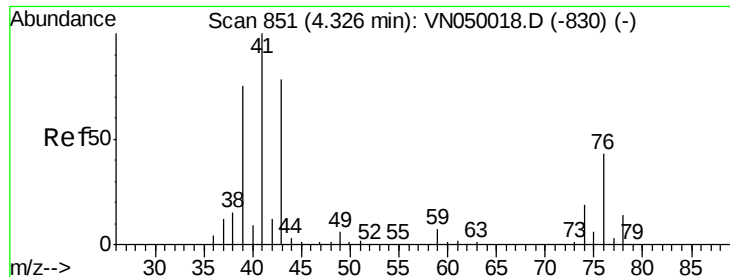
78 0.0 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

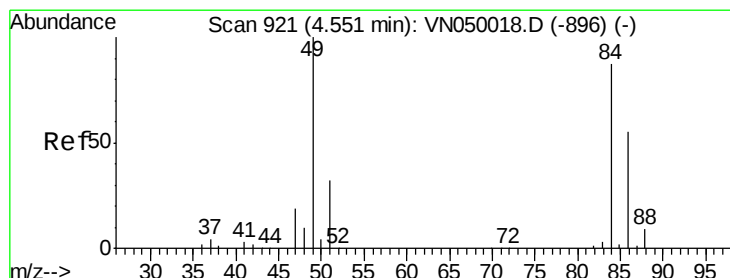
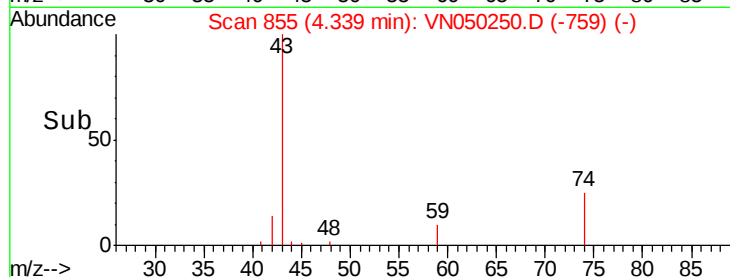
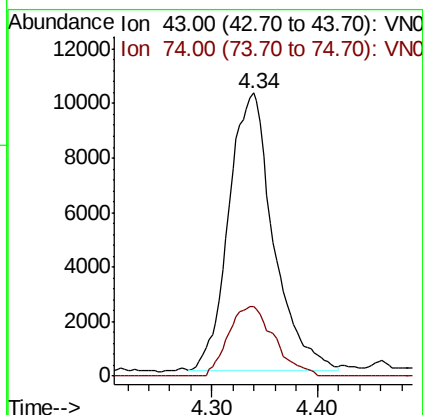
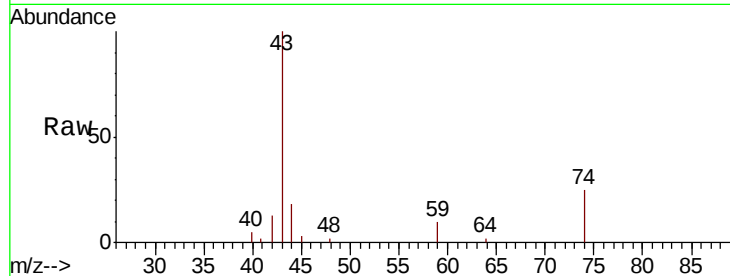




#18
Methyl Acetate
Concen: 2.02 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

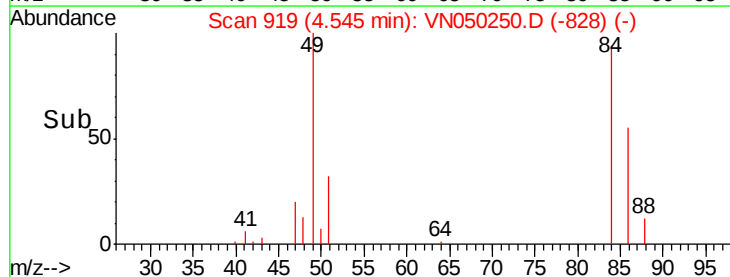
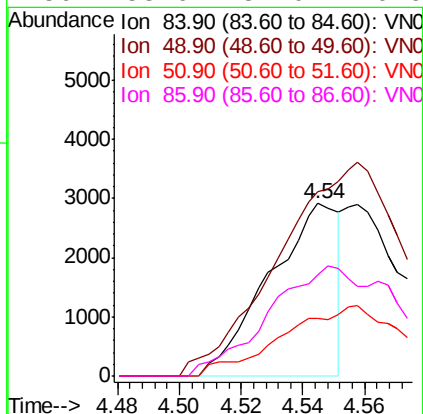
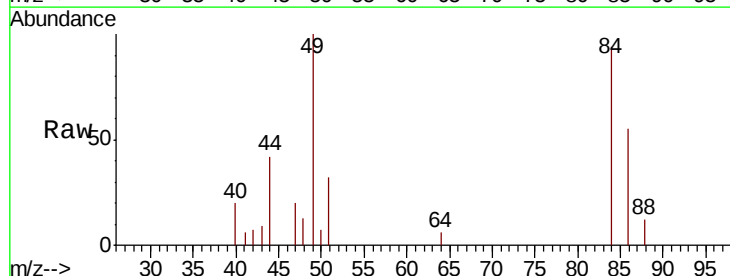
Instrument :
MSVOA_N
ClientSampled :

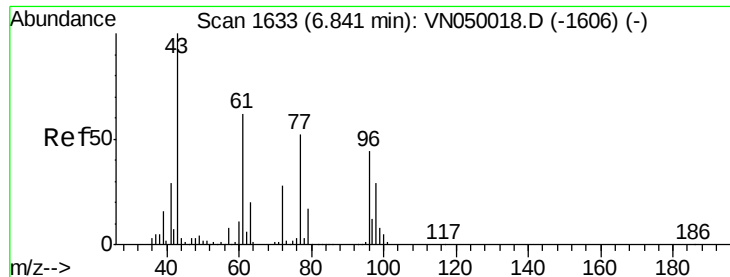
Tot Ion: 43 Resp: 29905
Ion Ratio Lower Upper
43 100
74 25.9 19.2 28.8



#20
Methylene Chloride
Concen: Below Cal
RT: 4.54 min Scan# 919
Delta R.T. -0.01 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

Tgt Ion: 84 Resp: 4541
Ion Ratio Lower Upper
84 100
49 98.1 94.8 142.2
51 33.7 28.3 42.5
86 58.6 51.0 76.6

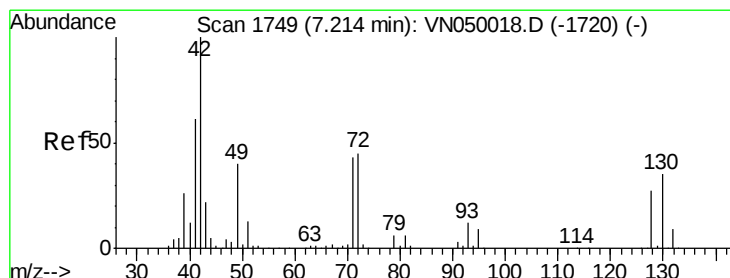
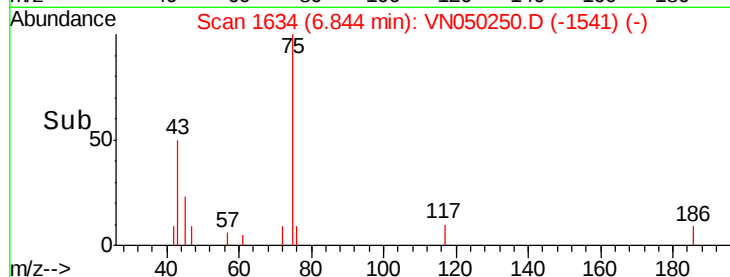
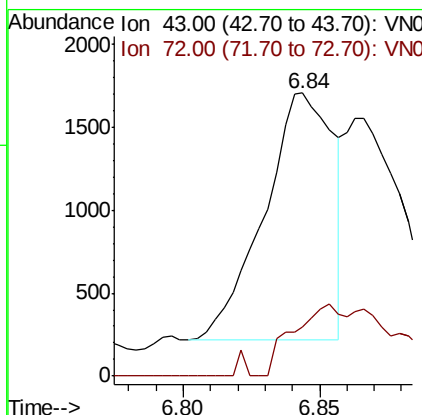
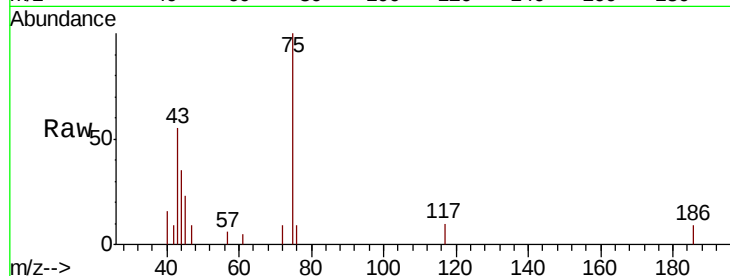




#25
2-Butanone
Concen: 0.76 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

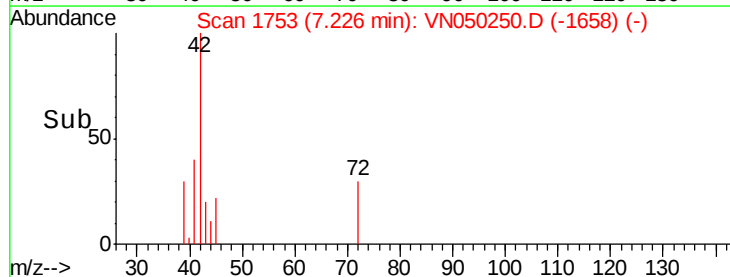
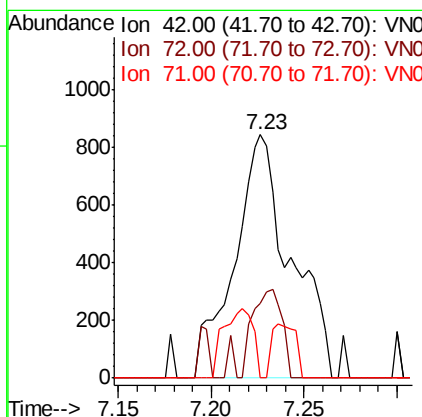
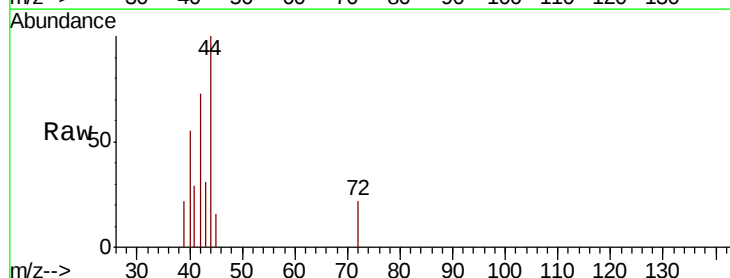
Instrument :
MSVOA_N
ClientSampled :

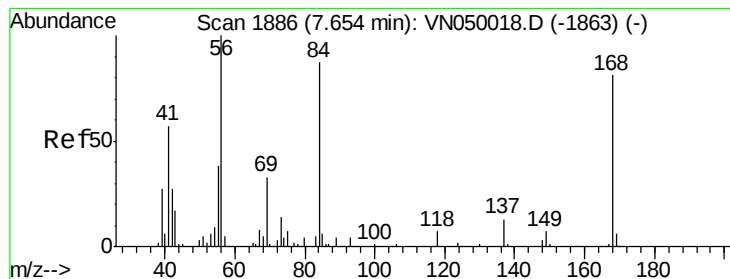
Tot Ion: 43 Resp: 2628
Ion Ratio Lower Upper
43 100
72 19.8 21.5 32.3#



#29
Tetrahydrofuran
Concen: 0.80 ug/l
RT: 7.23 min Scan# 1753
Delta R.T. 0.01 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

Tgt Ion: 42 Resp: 1790
Ion Ratio Lower Upper
42 100
72 18.7 35.9 53.9#
71 9.4 33.7 50.5#





#31

Cyclohexane

Concen: 0.92 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

ClientSampled :

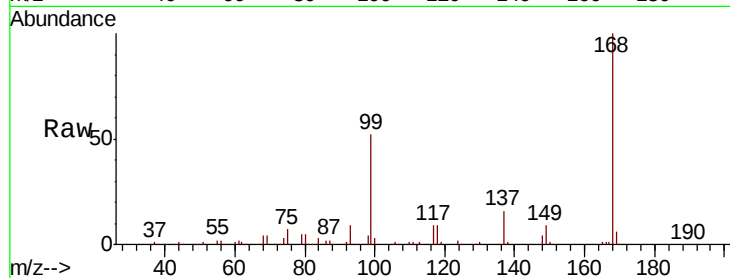
Tot Ion: 56 Resp: 12405

Ion Ratio Lower Upper

56 100

69 184.8 26.2 39.4#

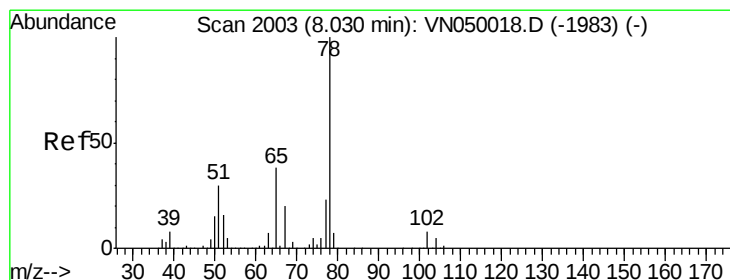
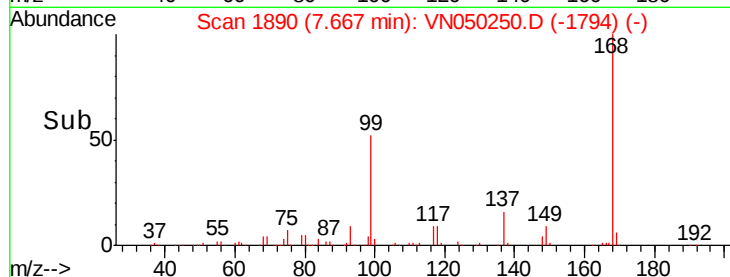
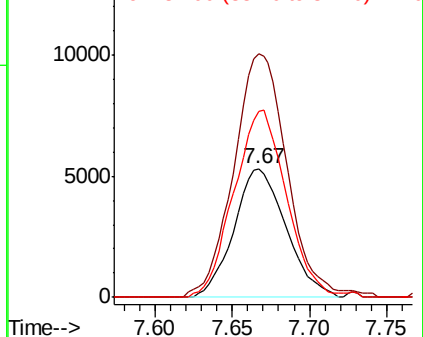
84 144.8 67.4 101.0#



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: 52.00 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050250.D

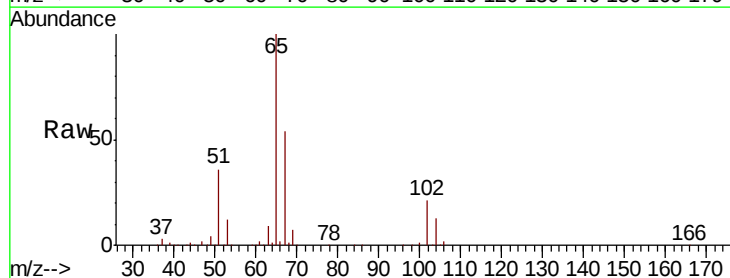
Acq: 1 Aug 2018 15:35

Tgt Ion: 65 Resp: 473178

Ion Ratio Lower Upper

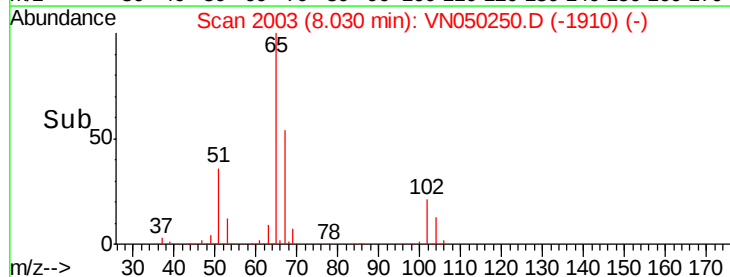
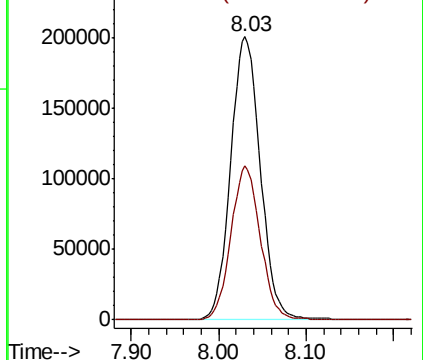
65 100

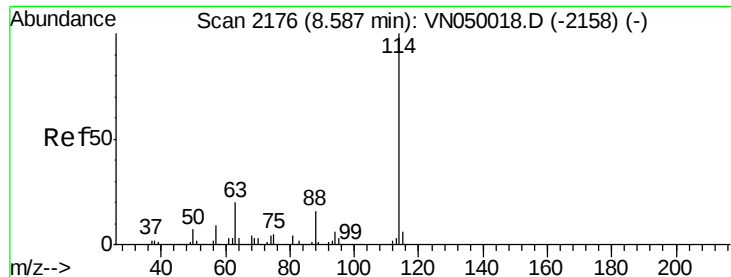
67 53.6 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

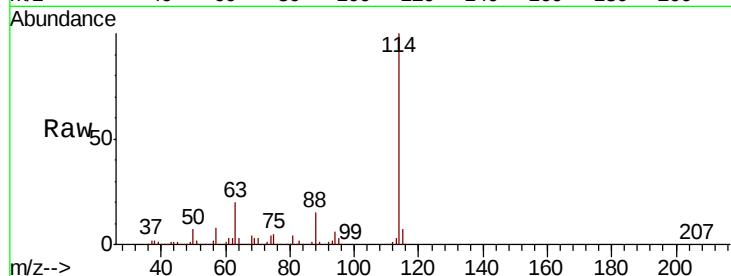




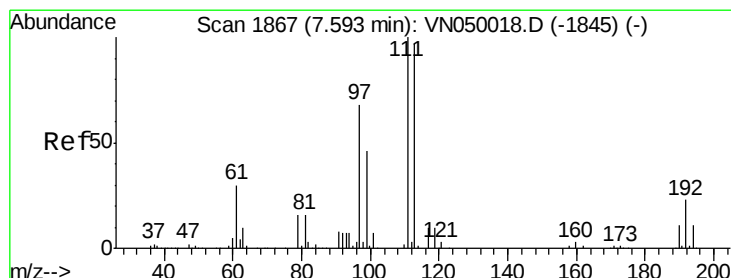
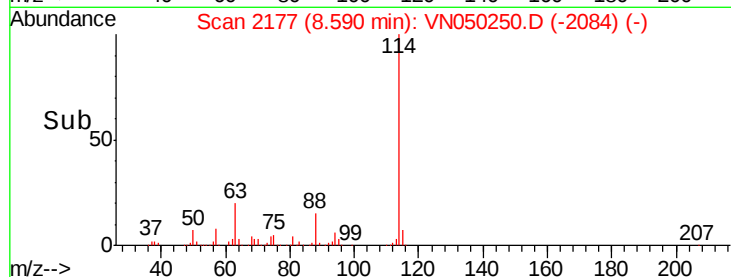
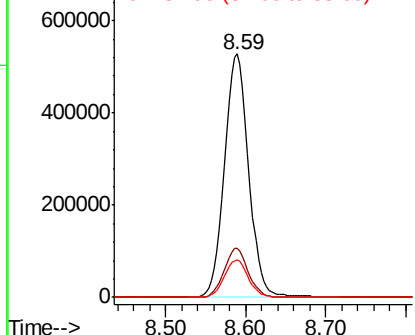
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050250.D
 Acq: 1 Aug 2018 15:35

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1099999
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 15.3 0.0 31.2

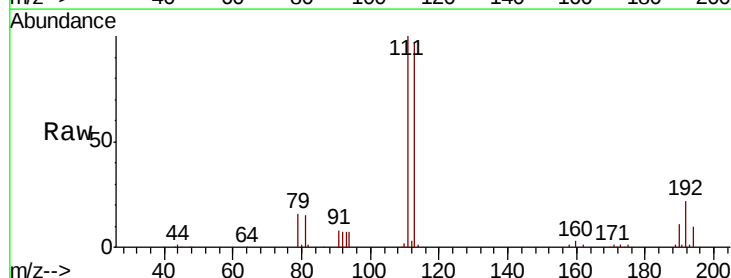


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

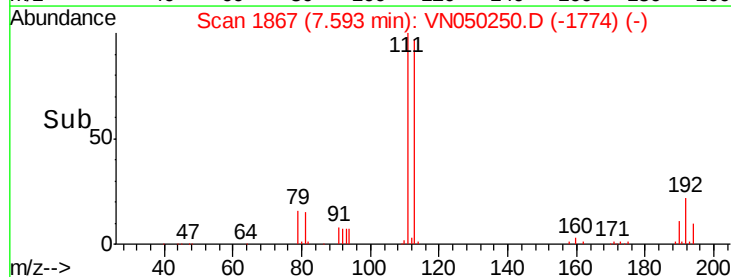
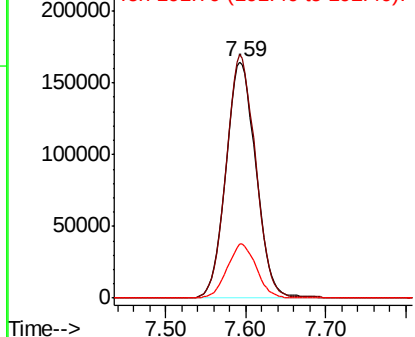


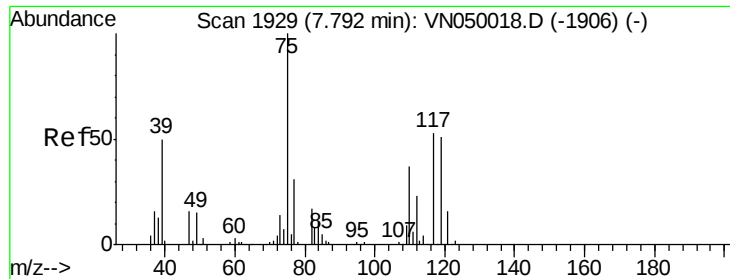
#35
 Dibromofluoromethane
 Concen: 46.80 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050250.D
 Acq: 1 Aug 2018 15:35

Tgt Ion:113 Resp: 420291
 Ion Ratio Lower Upper
 113 100
 111 100.3 80.7 121.1
 192 22.2 17.8 26.6



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

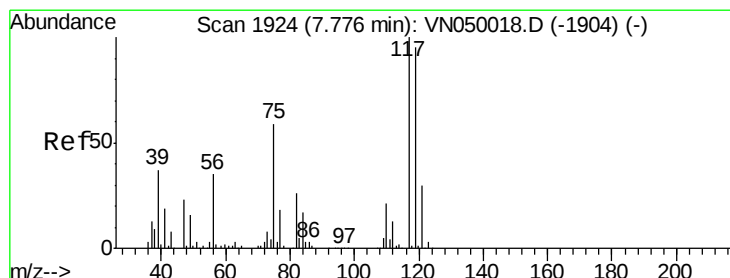
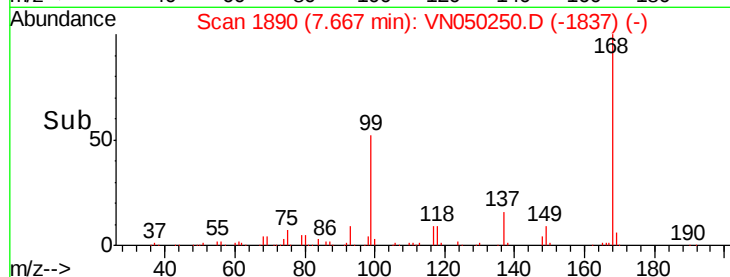
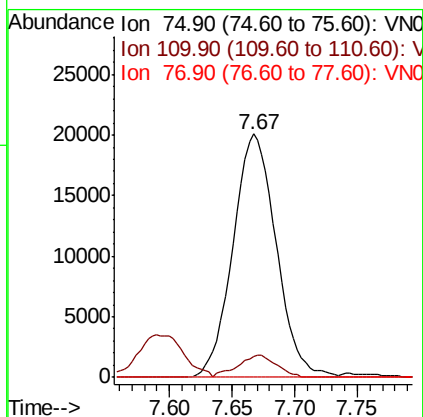
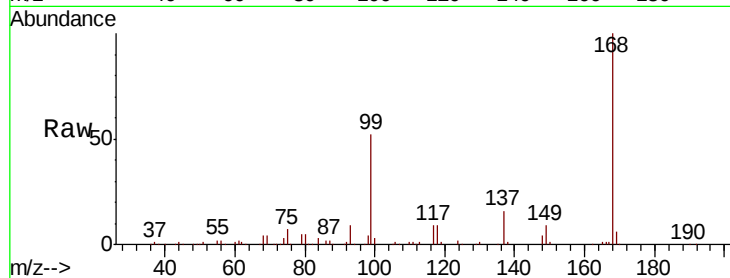




#36
 1,1-Dichloropropene
 Concen: 3.89 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050250.D
 Acq: 1 Aug 2018 15:35

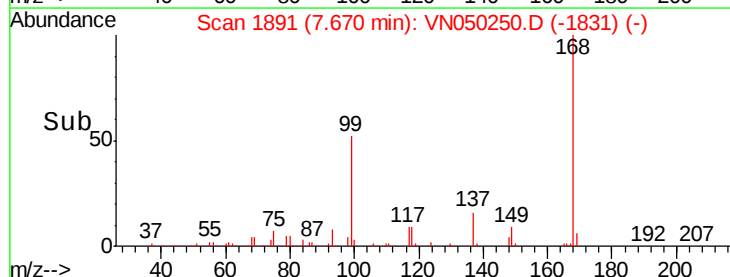
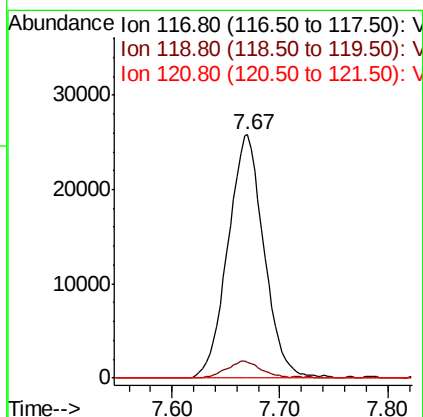
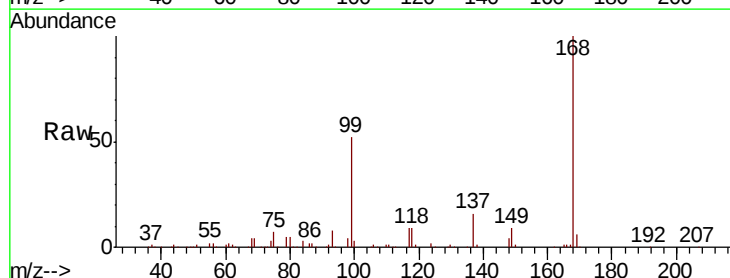
Instrument :
 MSVOA_N
 ClientSampleId :

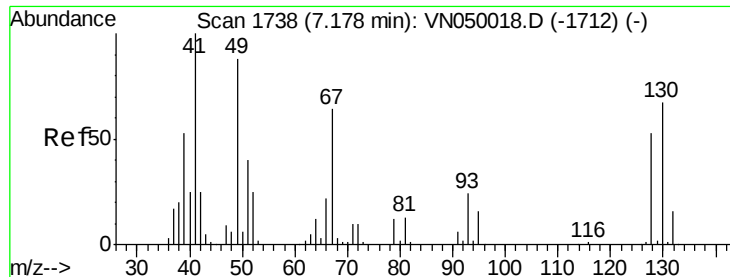
Tot Ion	75	Resp	48176
Ion Ratio	Lower	Upper	
75	100		
110	8.2	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.55 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050250.D
 Acq: 1 Aug 2018 15:35

Tgt Ion	117	Resp	59884
Ion Ratio	Lower	Upper	
117	100		
119	6.6	77.4	116.0#
121	0.0	23.9	35.9#

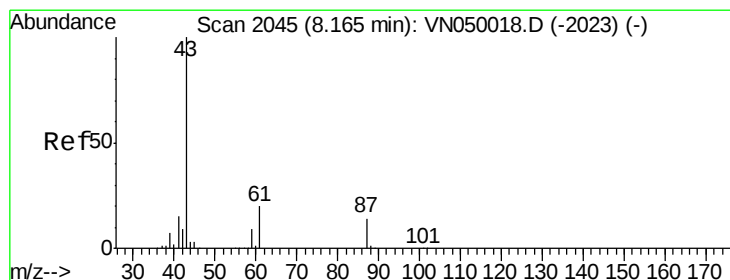
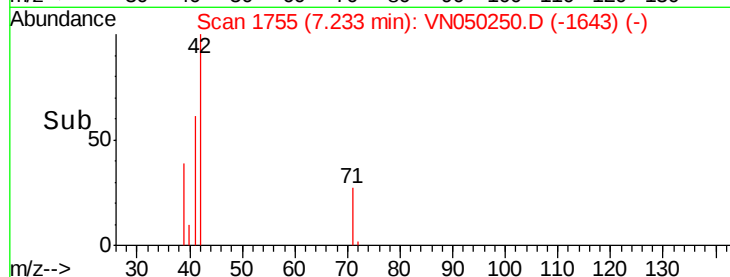
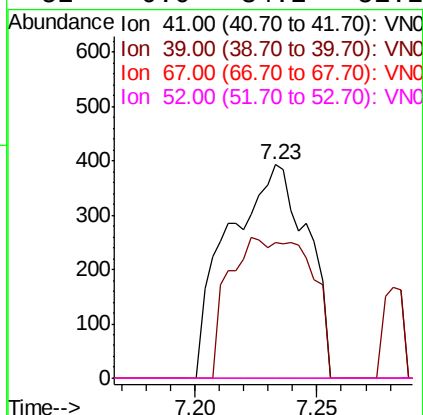
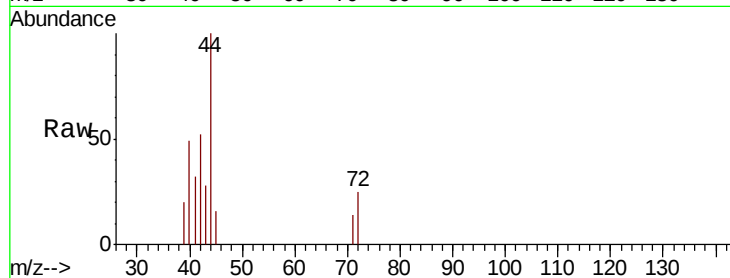




#41
Methacrylonitrile
Concen: 2.93 ug/l
RT: 7.23 min Scan# 1755
Delta R.T. 0.06 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

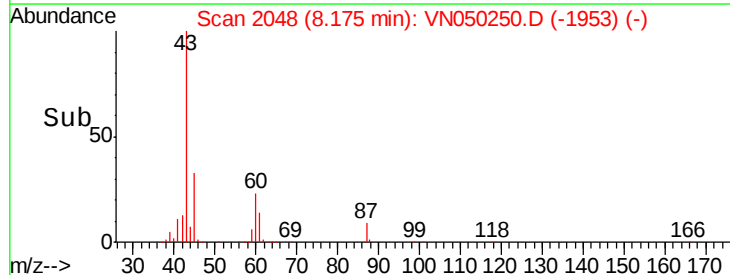
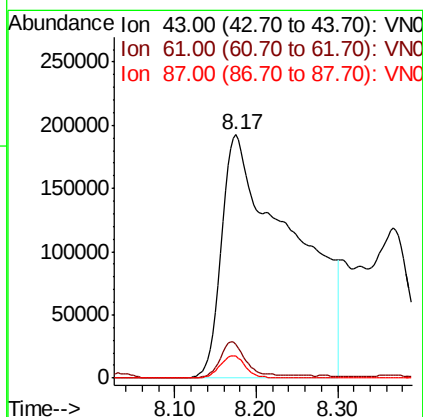
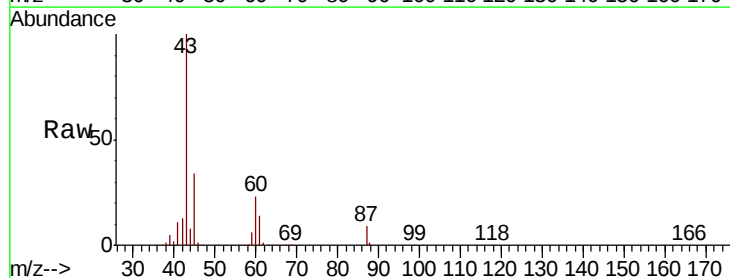
Instrument :
MSVOA_N
ClientSampled :

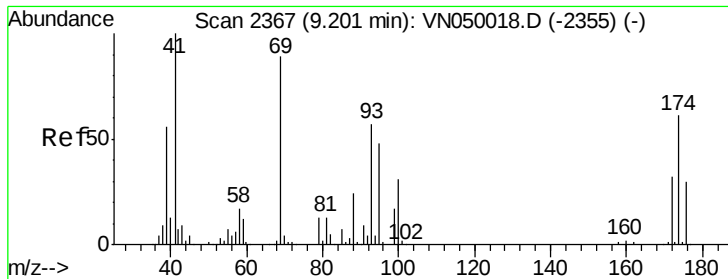
Tot Ion: 41 Resp: 877
Ion Ratio Lower Upper
41 100
39 33.8 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 71.97 ug/l
RT: 8.17 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

Tgt Ion: 43 Resp: 1163772
Ion Ratio Lower Upper
43 100
61 5.7 15.8 23.6#
87 3.4 10.3 15.5#

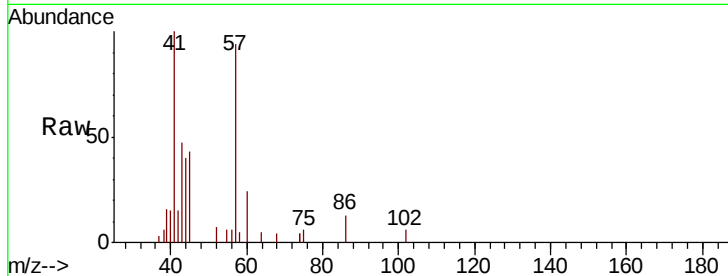




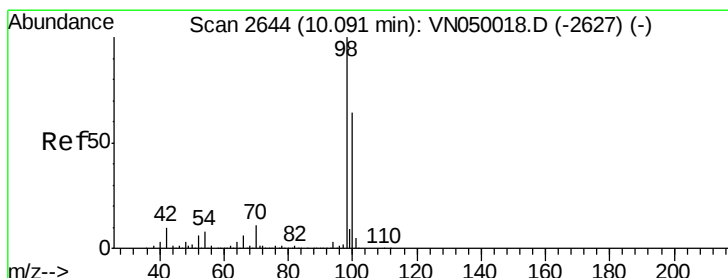
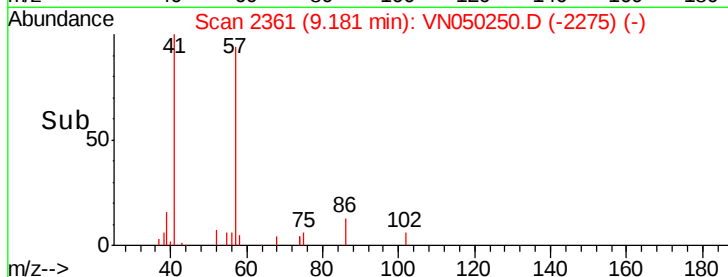
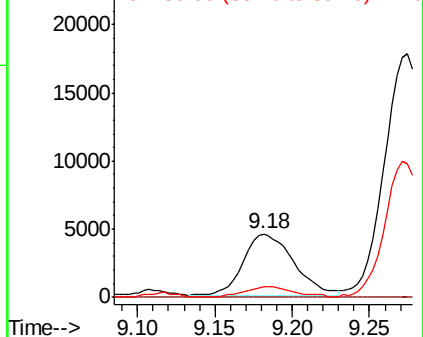
#48
Methvl methacrylate
Concen: 1.37 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 10212
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 16.6 43.9 65.9#

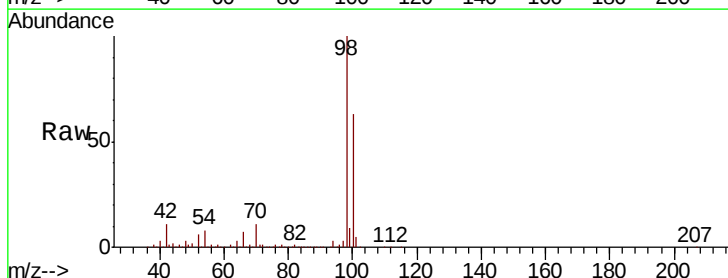


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

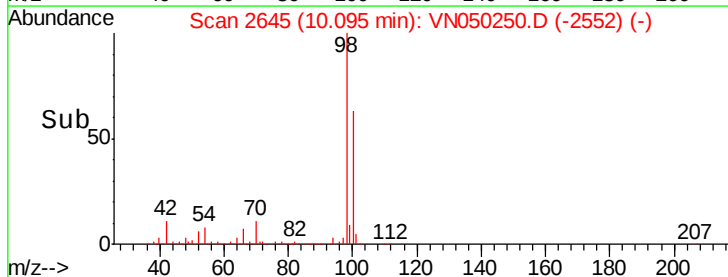
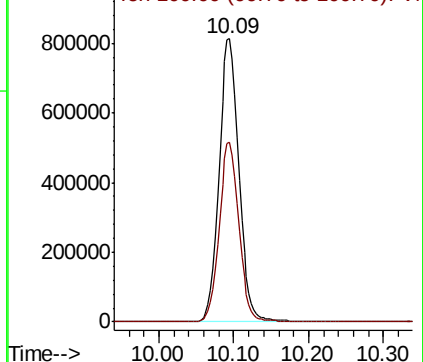


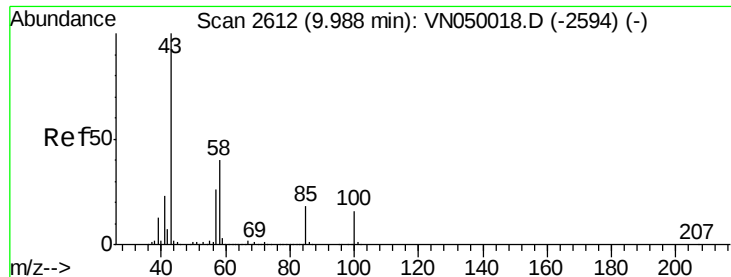
#50
Toluene-d8
Concen: 45.06 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

Tgt Ion: 98 Resp: 1487703
Ion Ratio Lower Upper
98 100
100 63.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

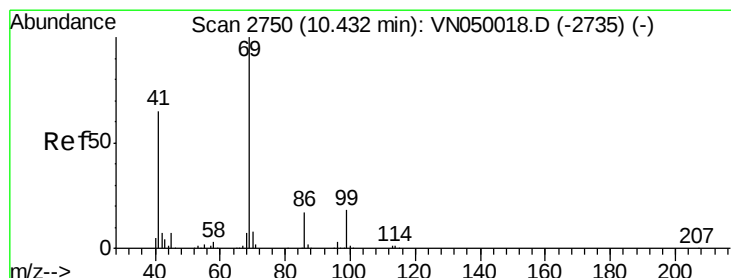
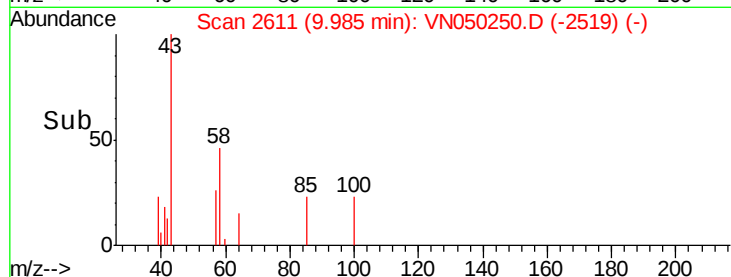
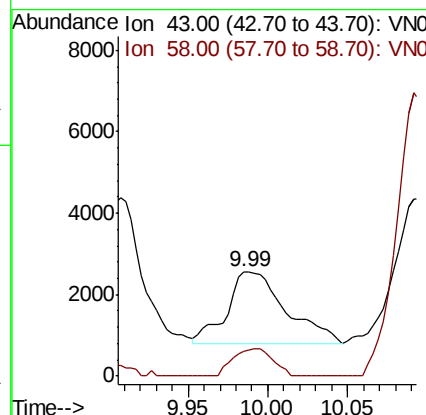
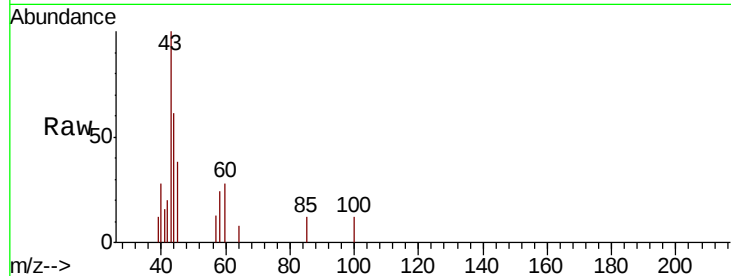




#51
 4-Methyl-2-Pentanone
 Concen: 0.52 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050250.D
 Acq: 1 Aug 2018 15:35

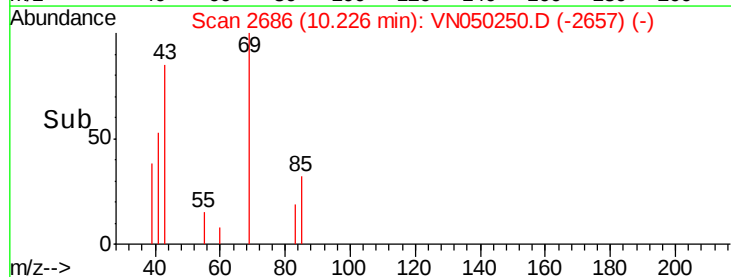
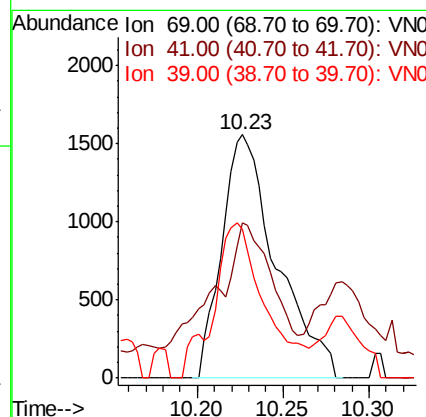
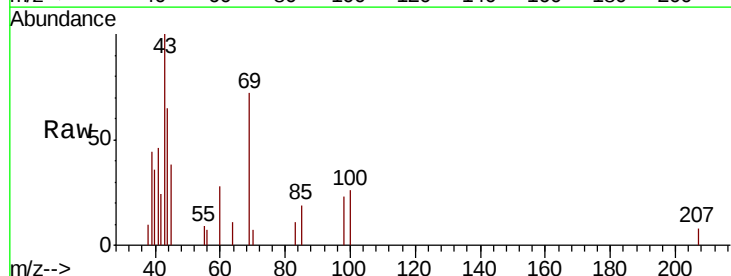
Instrument :
 MSVOA_N
 ClientSampled :

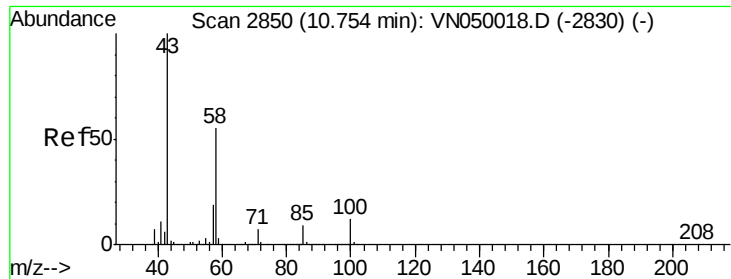
Tot Ion: 43 Resp: 4429
 Ion Ratio Lower Upper
 43 100
 58 25.9 31.9 47.9#



#56
 Ethyl methacrylate
 Concen: 2.31 ug/l
 RT: 10.23 min Scan# 2686
 Delta R.T. -0.21 min
 Lab File: VN050250.D
 Acq: 1 Aug 2018 15:35

Tgt Ion: 69 Resp: 3437
 Ion Ratio Lower Upper
 69 100
 41 35.1 51.0 76.4#
 39 60.3 26.6 40.0#





#59

2-Hexanone

Concen: 8.96 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

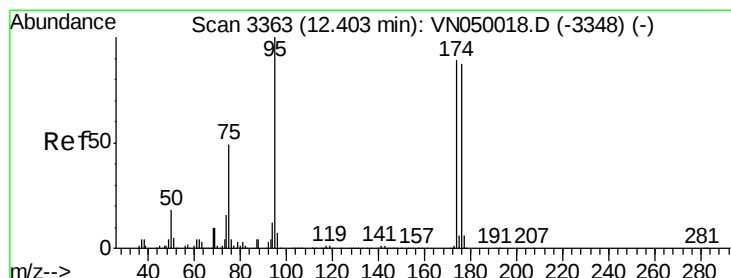
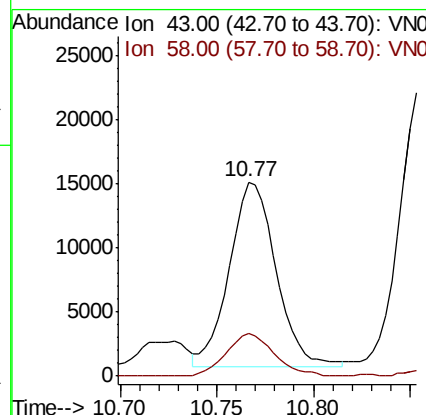
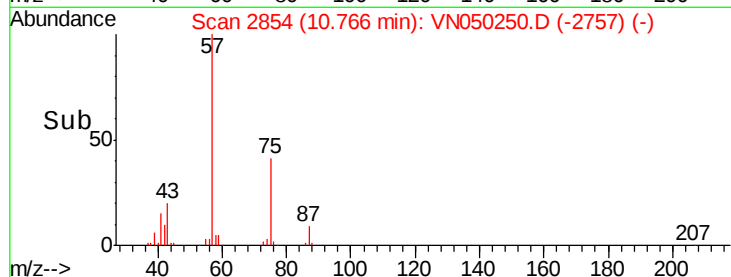
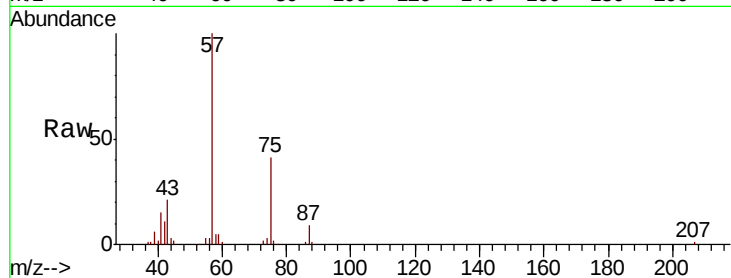
ClientSampled :

Tot Ion: 43 Resp: 24158

Ion Ratio Lower Upper

43 100

58 23.8 27.6 82.7#



#62

4-Bromofluorobenzene

Concen: 37.91 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

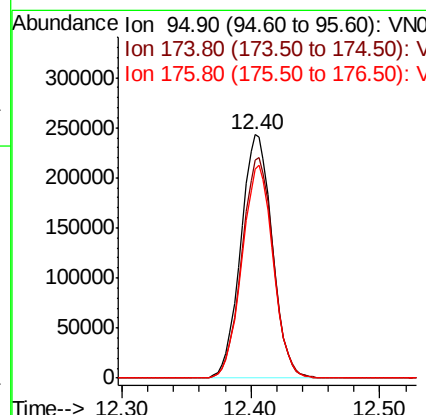
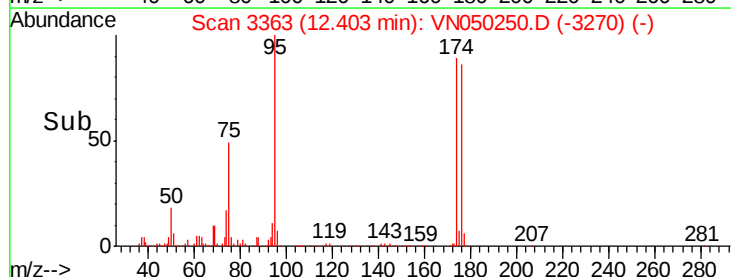
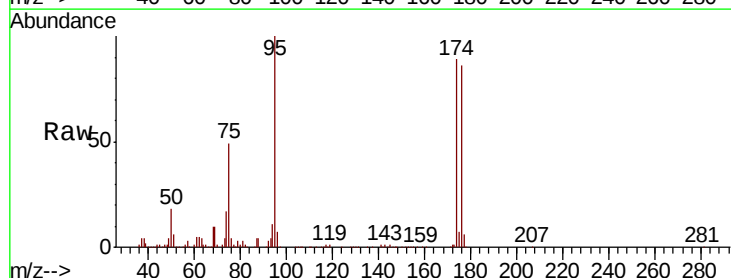
Tgt Ion: 95 Resp: 412131

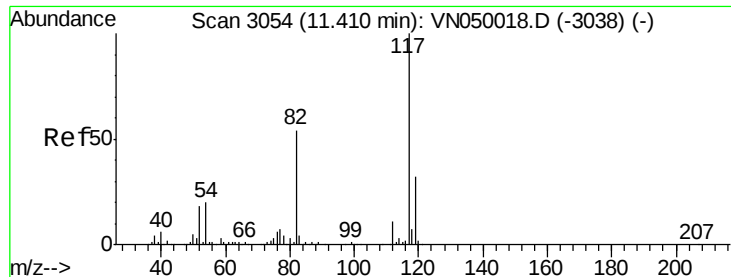
Ion Ratio Lower Upper

95 100

174 91.1 0.0 178.2

176 86.8 0.0 173.4

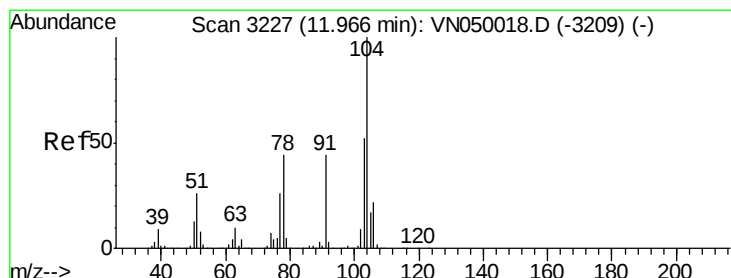
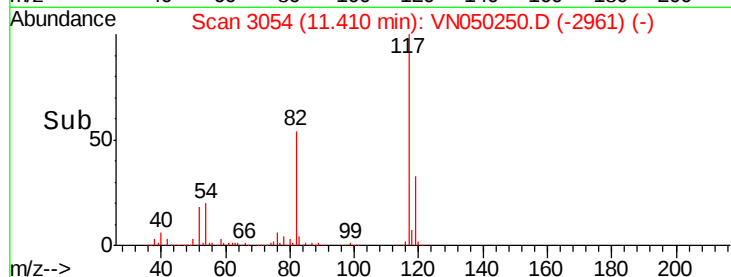
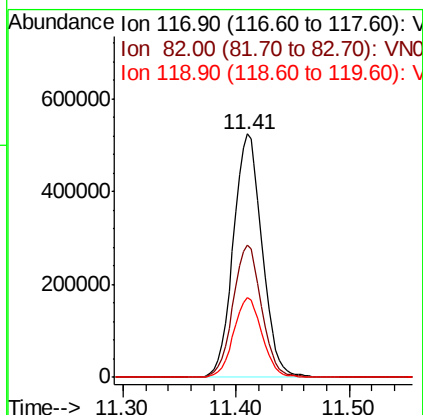
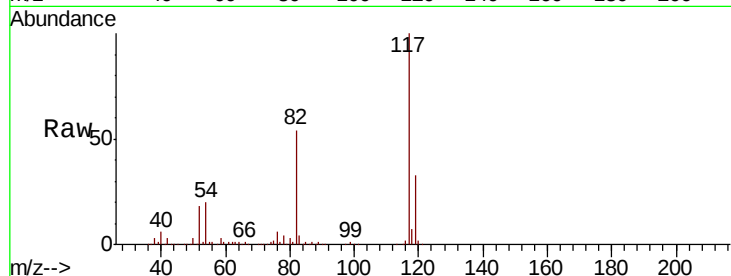




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

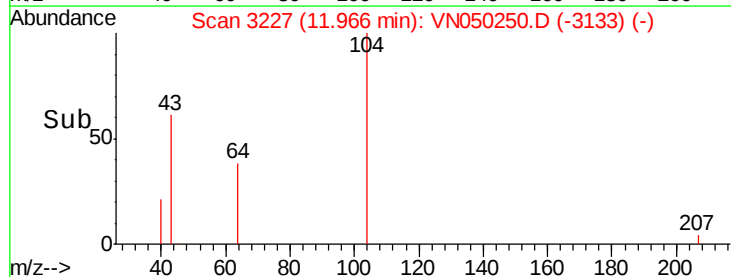
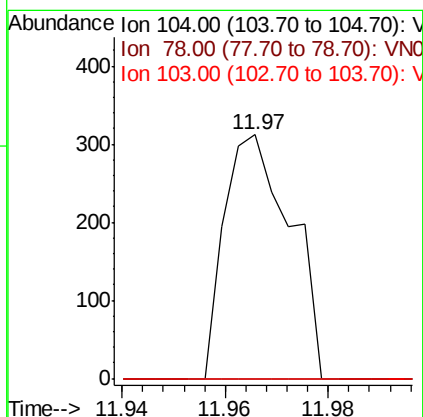
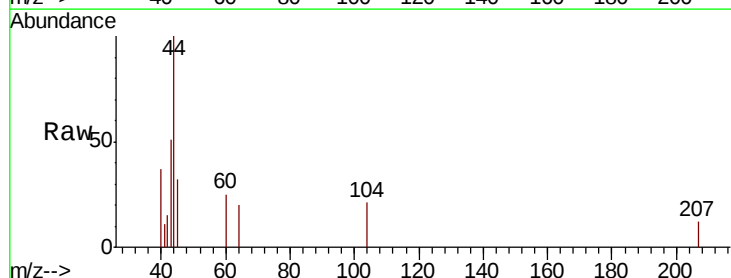
Instrument :
MSVOA_N
ClientSampleId :

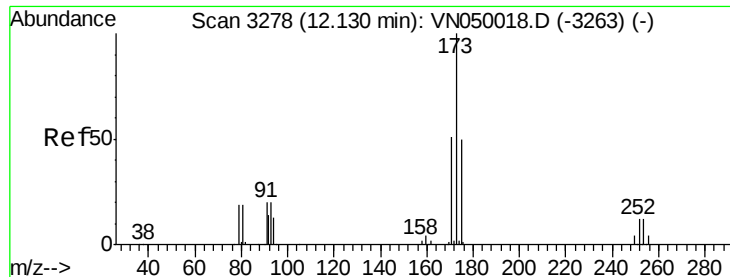
Tot Ion:117 Resp: 926691
Ion Ratio Lower Upper
117 100
82 54.4 43.7 65.5
119 32.7 26.1 39.1



#70
Styrene
Concen: 0.93 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN050250.D
Acq: 1 Aug 2018 15:35

Tgt Ion:104 Resp: 277
Ion Ratio Lower Upper
104 100
78 0.0 39.3 58.9#
103 0.0 45.0 67.6#





#71

Bromoform

Concen: 0.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.27 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

ClientSampled :

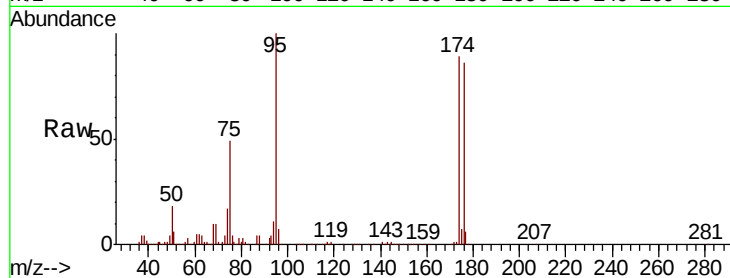
Tot Ion:173 Resp: 3703

Ion Ratio Lower Upper

173 100

175 640.9 24.1 72.2#

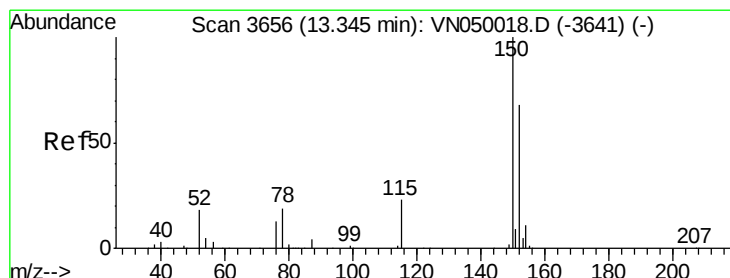
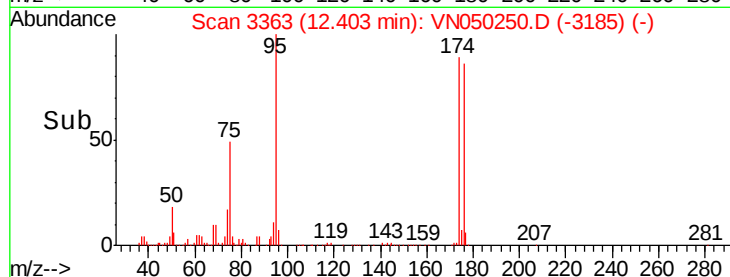
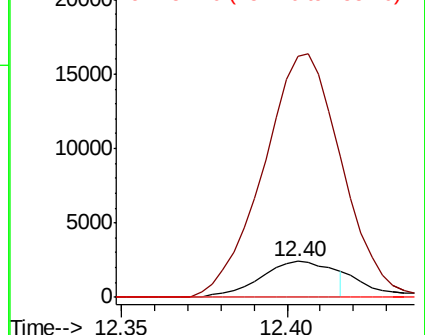
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

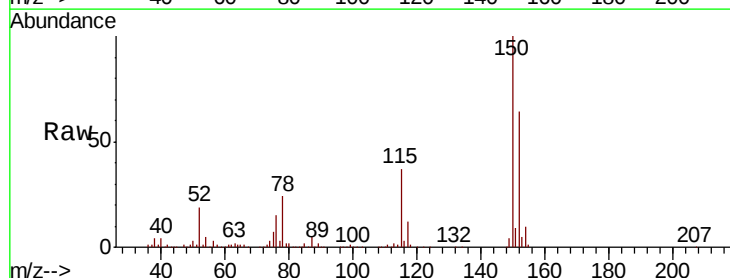
Tgt Ion:152 Resp: 343311

Ion Ratio Lower Upper

152 100

115 56.7 27.8 83.3

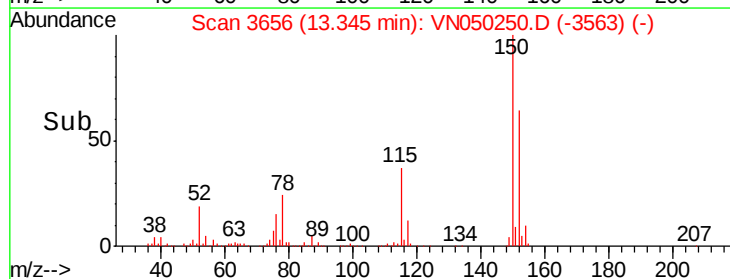
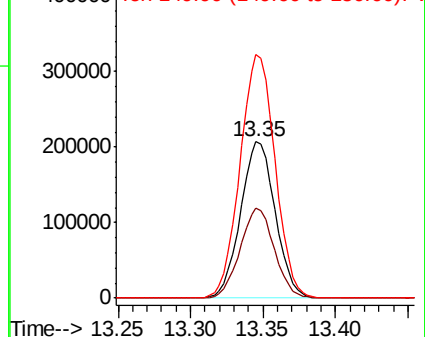
150 157.4 0.0 348.6

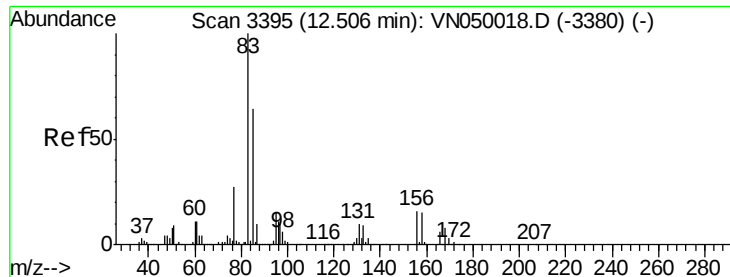


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3362

Delta R.T. -0.11 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

ClientSampled :

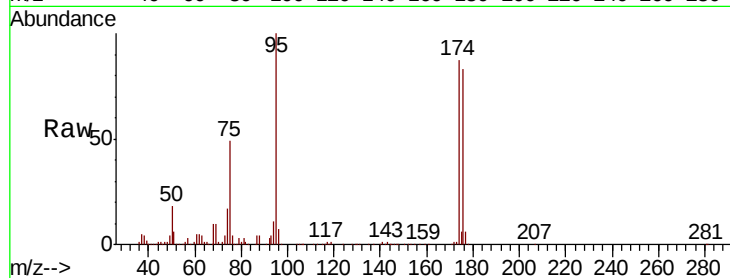
Tot Ion: 83 Resp: 266

Ion Ratio Lower Upper

83 100

131 200.4 5.1 15.3#

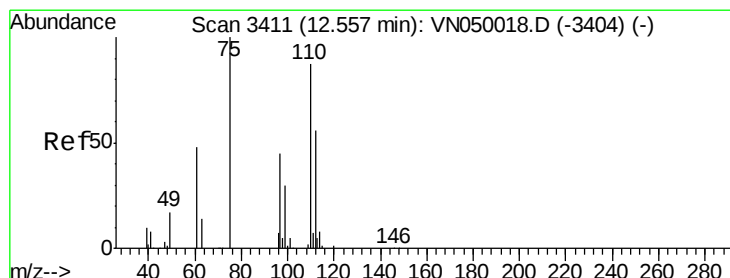
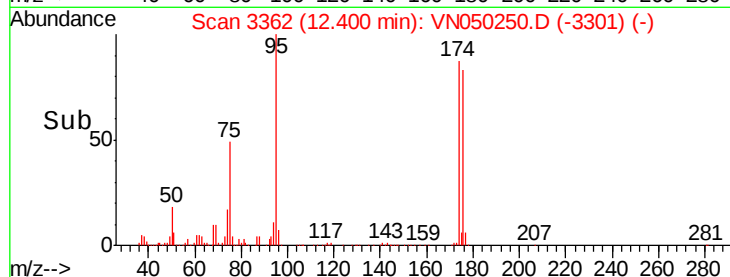
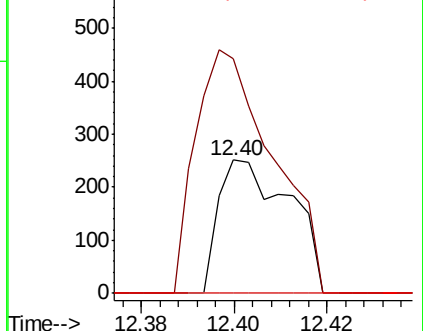
85 0.0 32.3 96.8#



Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): VNO

Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 31.50 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050250.D

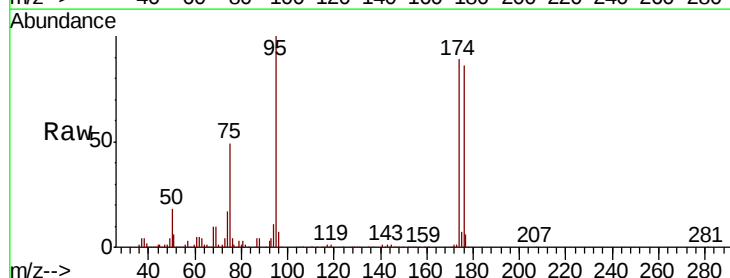
Acq: 1 Aug 2018 15:35

Tgt Ion: 75 Resp: 200987

Ion Ratio Lower Upper

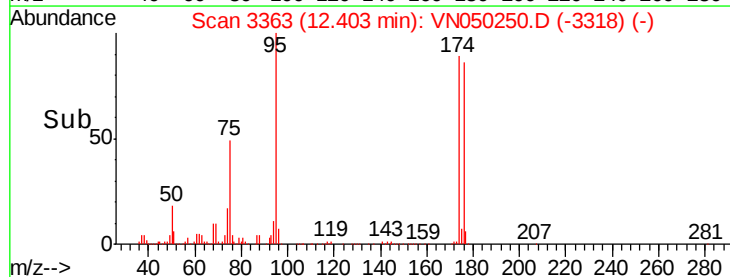
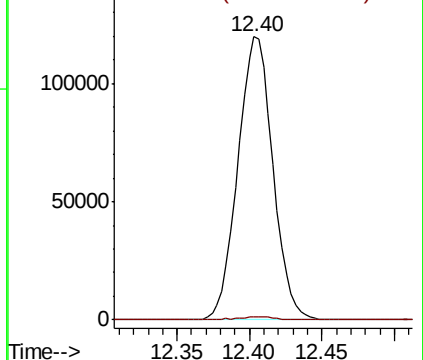
75 100

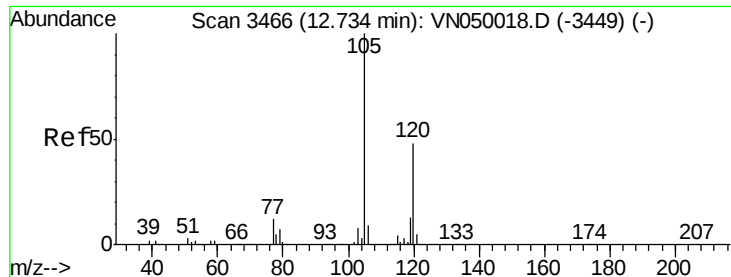
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#80

1,3,5-Trimethylbenzene

Concen: 0.21 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

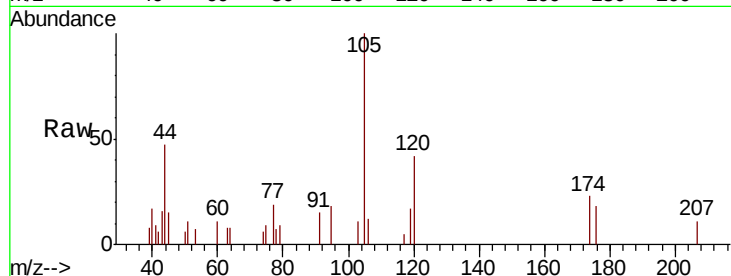
ClientSampleId :

Tot Ion:105 Resp: 4416

Ion Ratio Lower Upper

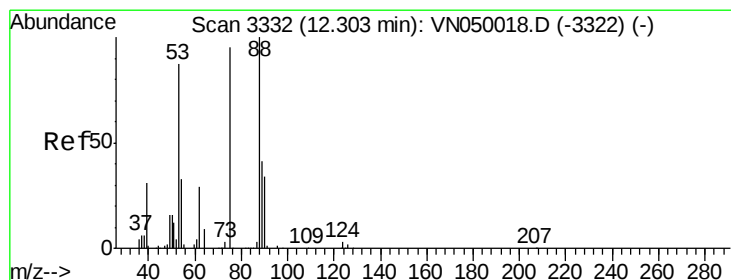
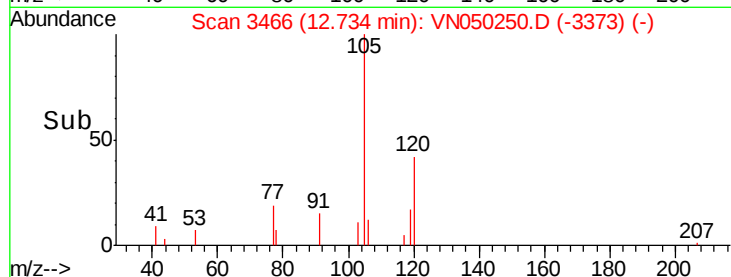
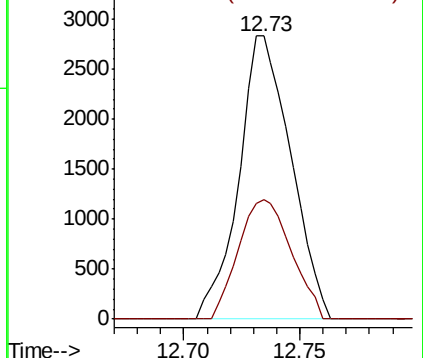
105 100

120 43.0 24.4 73.2



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: 99.92 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

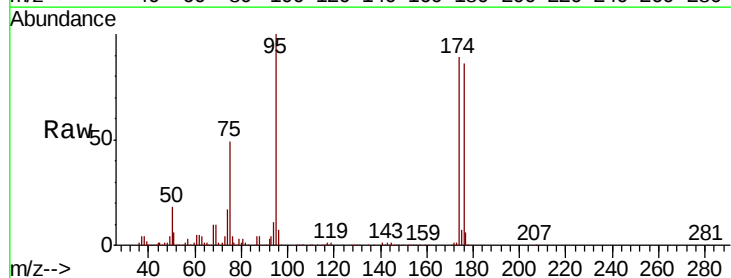
Tgt Ion: 75 Resp: 200987

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

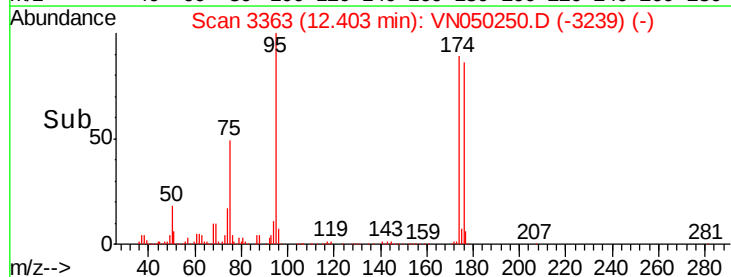
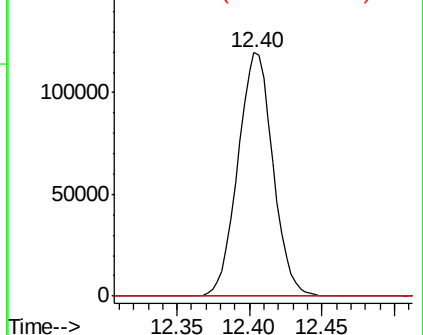
89 0.0 36.0 54.0#

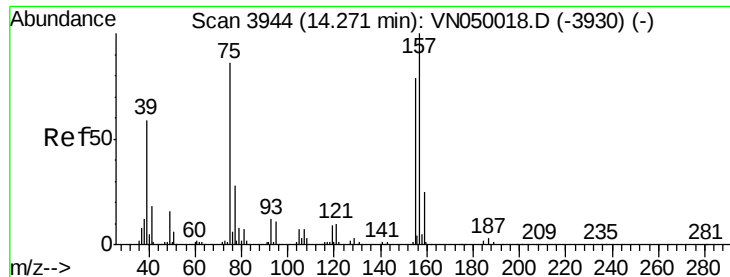


Abundance Ion 74.90 (74.60 to 75.60): VNO

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: 14.26 min Scan# 3939

Delta R.T. -0.02 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

Instrument :

MSVOA_N

ClientSampled :

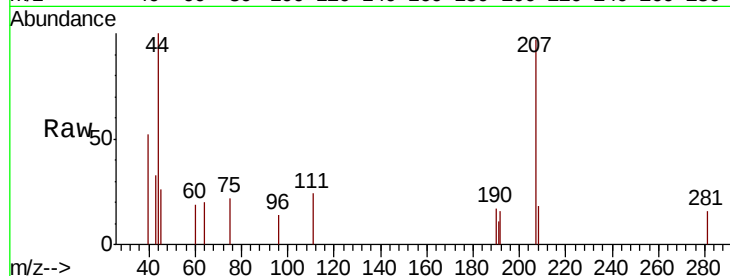
Tot Ion: 75 Resp: 258

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

157 0.0 57.2 171.6#



Abundance Ion 74.90 (74.60 to 75.60): VN050018.D (-3930) (-)

Ion 154.80 (154.50 to 155.50): VN050018.D (-3930) (-)

Ion 156.80 (156.50 to 157.50): VN050018.D (-3930) (-)

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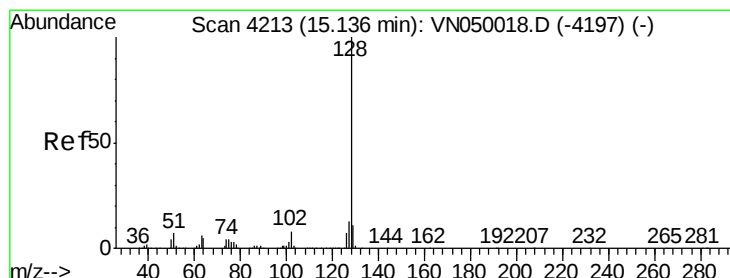
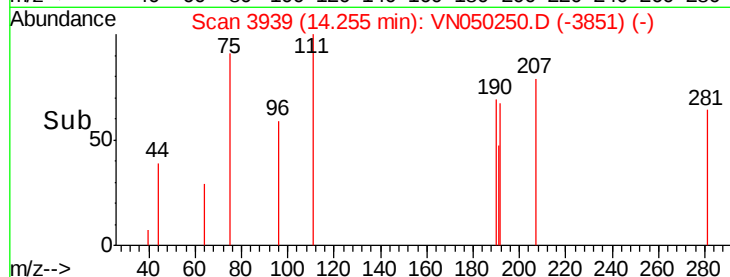
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#95

Naphthalene

Concen: 4.45 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050250.D

Acq: 1 Aug 2018 15:35

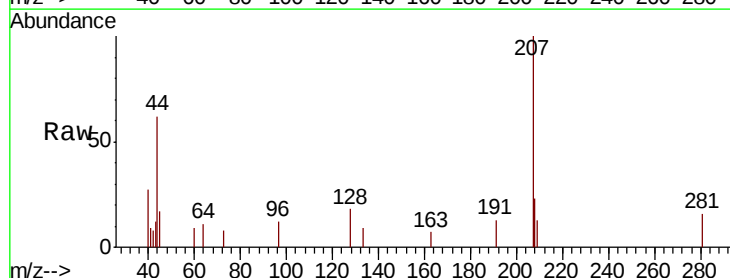
Tgt Ion: 128 Resp: 601

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 8.8 13.2#



Abundance Ion 128.00 (127.70 to 128.70): VN050018.D (-4197) (-)

Ion 127.00 (126.70 to 127.70): VN050018.D (-4197) (-)

Ion 129.00 (128.70 to 129.70): VN050018.D (-4197) (-)

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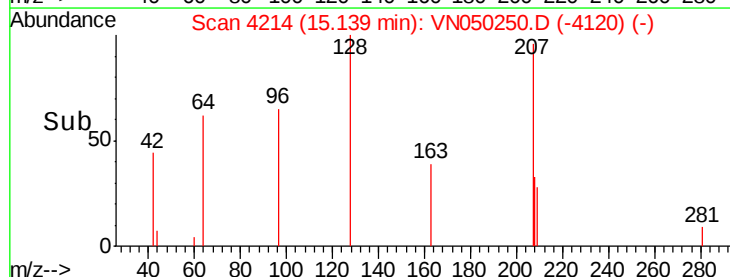
15.14

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Time-->