

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080118\
 Data File : VN050248.D
 Acq On : 1 Aug 2018 14:45
 Operator : MD\SY
 Sample : PB111649ZHE#01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 02 00:54:38 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	642721	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1071401	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	901516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	336670	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	461093	51.42	ug/l	0.00
Spiked Amount			Recovery	=	102.84%	
35) Dibromofluoromethane	7.59	113	405831	46.39	ug/l	0.00
Spiked Amount			Recovery	=	92.78%	
50) Toluene-d8	10.09	98	1438827	44.74	ug/l	0.00
Spiked Amount			Recovery	=	89.48%	
62) 4-Bromofluorobenzene	12.40	95	399508	37.73	ug/l	0.00
Spiked Amount			Recovery	=	75.46%	

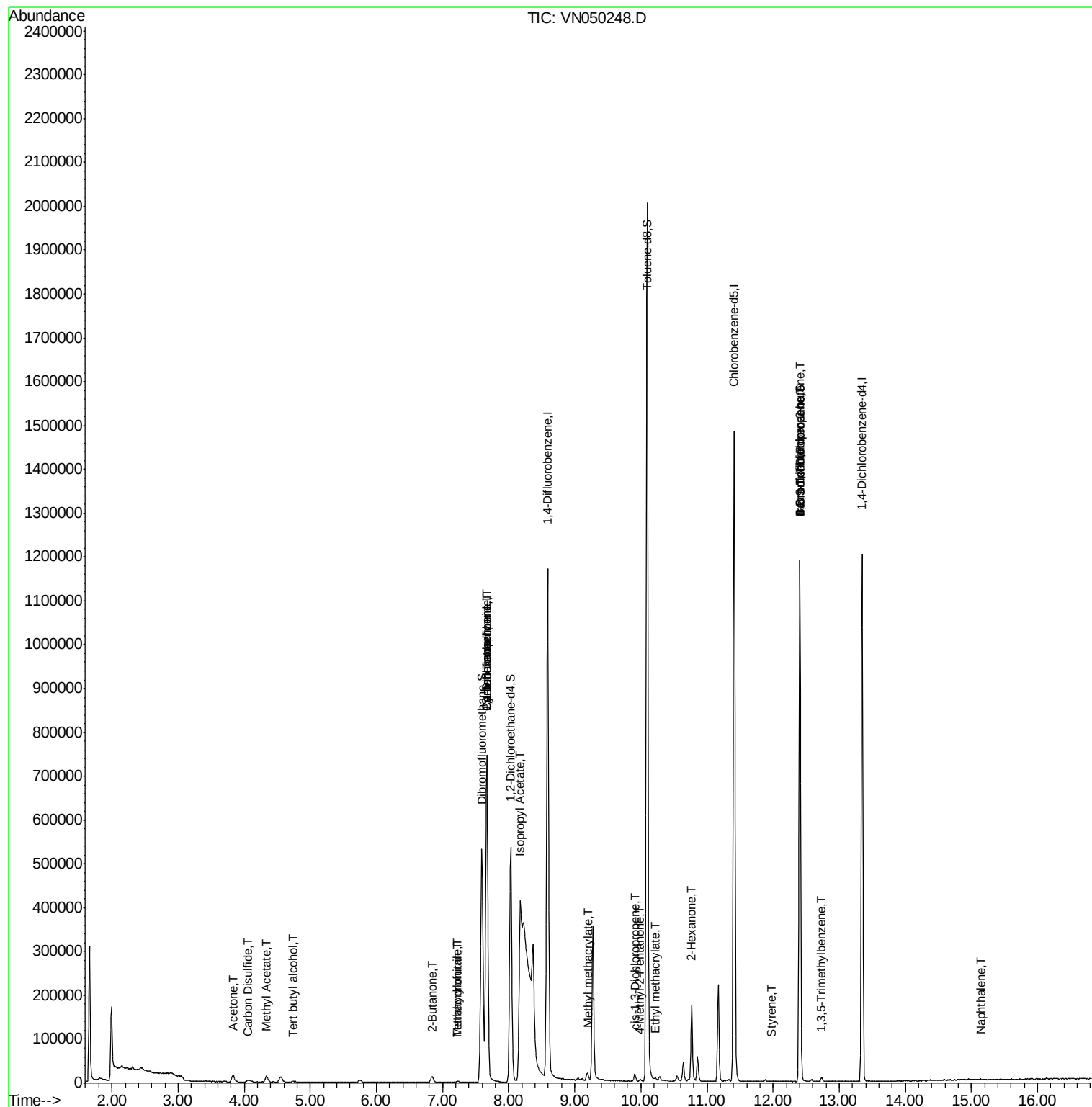
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	209	Below Cal		85
11) Tert butyl alcohol	4.74	59	406	0.62 ug/l	#	72
16) Acetone	3.83	43	27422	8.79 ug/l		94
17) Carbon Disulfide	4.05	76	5231	0.23 ug/l		98
18) Methyl Acetate	4.34	43	25510	1.53 ug/l		98
20) Methylene Chloride	4.54	84	9128	Below Cal		92
25) 2-Butanone	6.86	43	6268	1.83 ug/l		92
29) Tetrahydrofuran	7.22	42	1985	0.90 ug/l	#	48
31) Cyclohexane	7.66	56	12058	0.91 ug/l	#	1
36) 1,1-Dichloropropene	7.67	75	44565	3.69 ug/l	#	48
38) Carbon Tetrachloride	7.67	117	57552	4.49 ug/l	#	16
41) Methacrylonitrile	7.21	41	257	2.80 ug/l	#	24
43) Isopropyl Acetate	8.17	43	517207	32.21 ug/l	#	86
48) Methyl methacrylate	9.18	41	9999	1.38 ug/l	#	23
51) 4-Methyl-2-Pentanone	9.99	43	3020	0.37 ug/l		96
54) cis-1,3-Dichloropropene	9.91	75	3025	0.22 ug/l	#	67
56) Ethyl methacrylate	10.23	69	3242	2.30 ug/l	#	73
59) 2-Hexanone	10.77	43	24247	9.08 ug/l	#	56
70) Styrene	11.97	104	180	0.93 ug/l	#	25
71) Bromoform	12.40	173	3088	0.49 ug/l	#	1
75) 1,1,2,2-Tetrachloroethane	12.41	83	228	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	196070	31.34 ug/l	#	100
80) 1,3,5-Trimethylbenzene	12.74	105	4374	0.21 ug/l		99
81) trans-1,4-Dichloro-2-buten	12.40	75	196070	99.40 ug/l	#	13
92) 1,2-Dibromo-3-Chloropropan	14.25	75	119	Below Cal	#	1
95) Naphthalene	15.14	128	397	4.44 ug/l	#	69

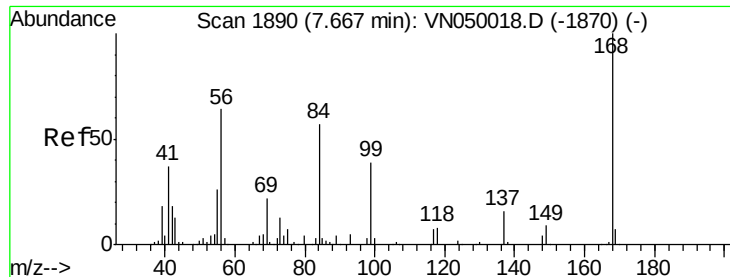
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Aug 02 00:54:38 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: VN050248.D

Acq: 1 Aug 2018 14:45

Instrument :

MSVOA_N

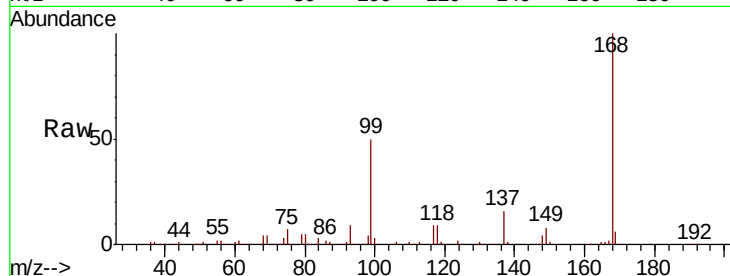
ClientSampled :

Tot Ion:168 Resp: 642721

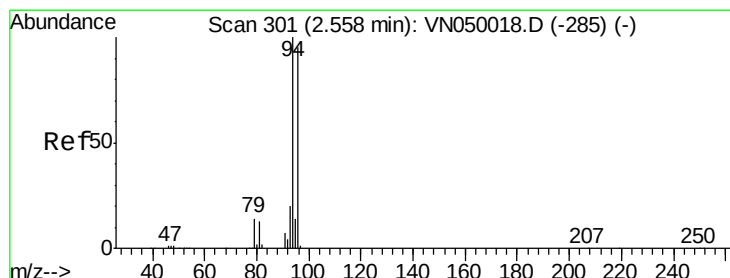
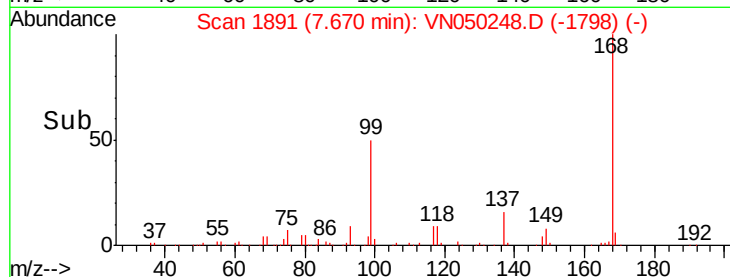
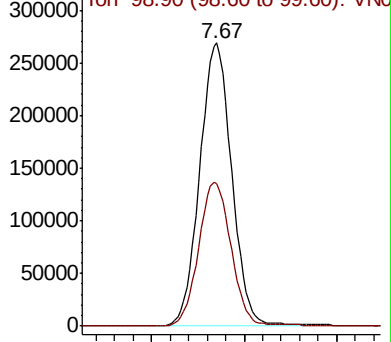
Ion Ratio Lower Upper

168 100

99 50.4 40.0 60.0



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



#5

Bromomethane

Concen: Below Cal

RT: 2.55 min Scan# 299

Delta R.T. 0.00 min

Lab File: VN050248.D

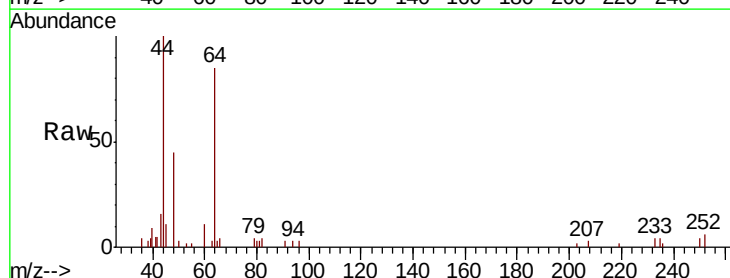
Acq: 1 Aug 2018 14:45

Tgt Ion: 94 Resp: 209

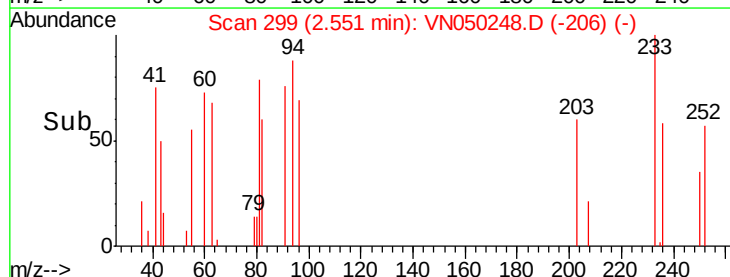
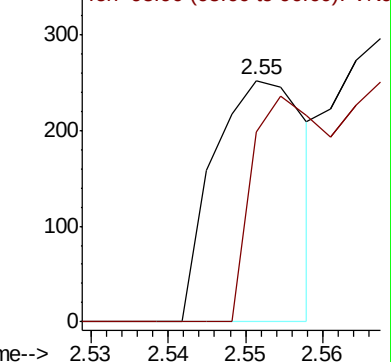
Ion Ratio Lower Upper

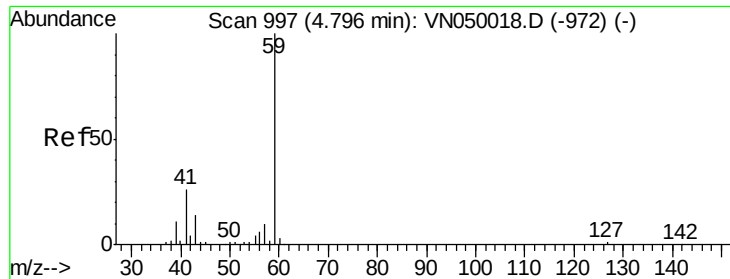
94 100

96 78.6 74.6 112.0



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

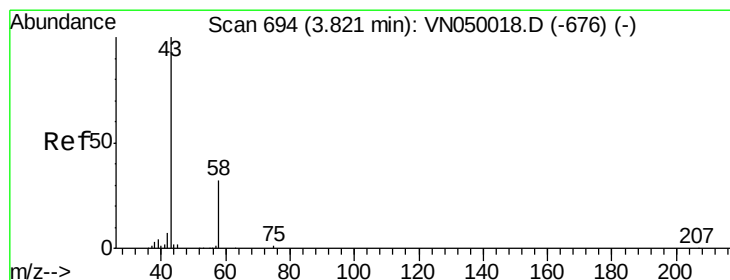
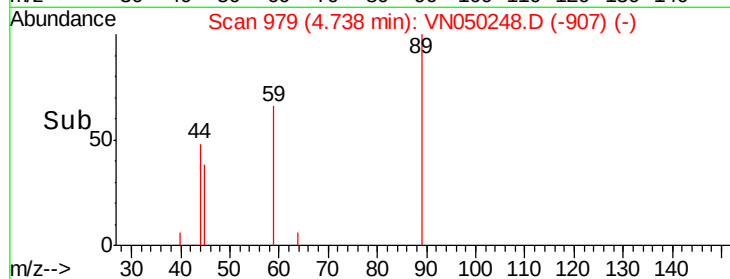
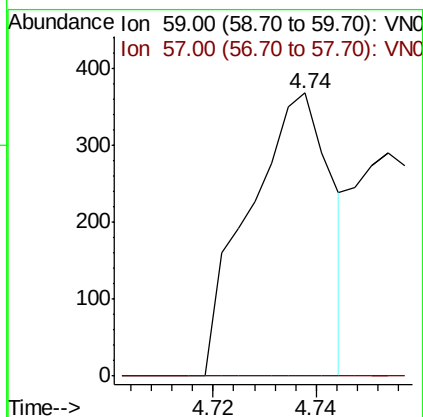
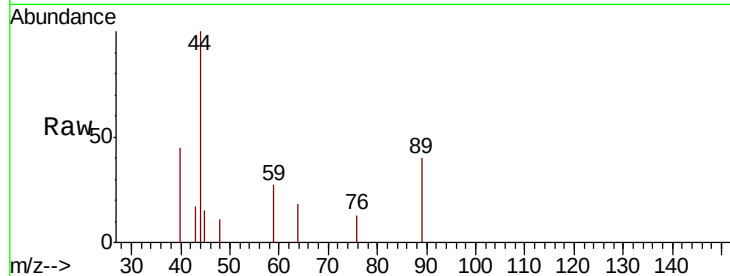




#11
Tert butyl alcohol
Concen: 0.62 ug/l
RT: 4.74 min Scan# 979
Delta R.T. -0.07 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

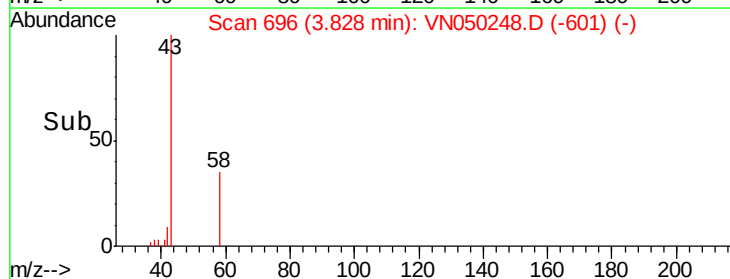
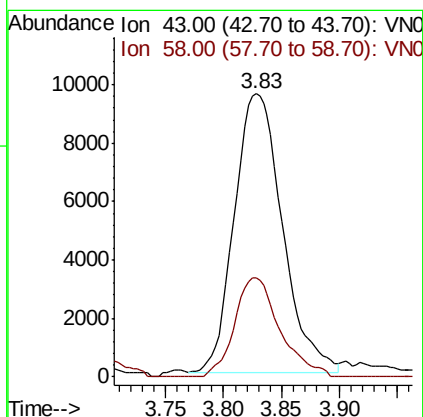
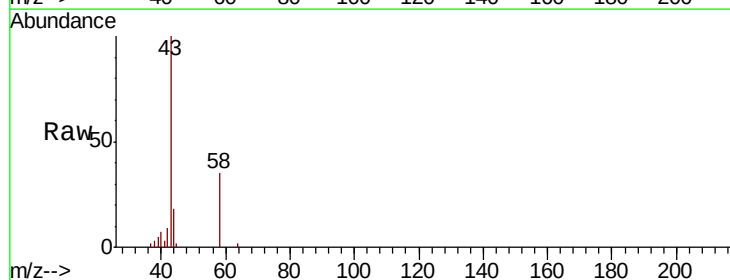
Instrument :
MSVOA_N
ClientSampled :

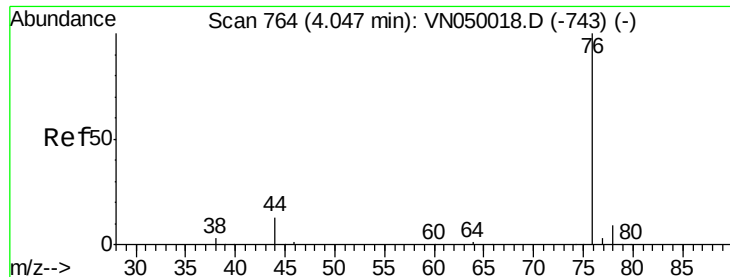
Tot Ion: 59 Resp: 406
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#16
Acetone
Concen: 8.79 ug/l
RT: 3.83 min Scan# 696
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion: 43 Resp: 27422
Ion Ratio Lower Upper
43 100
58 35.6 25.8 38.8

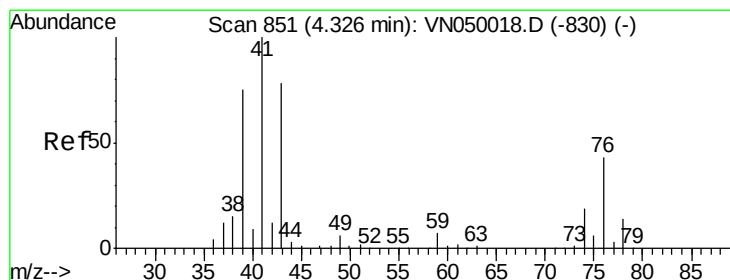
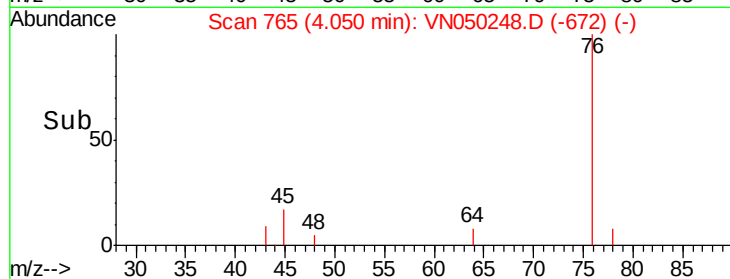
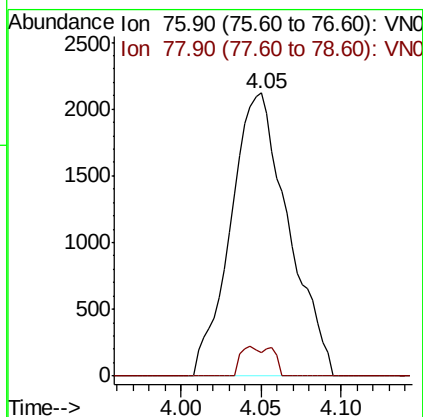
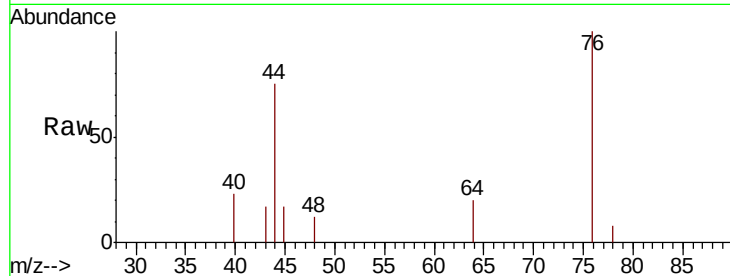




#17
Carbon Disulfide
Concen: 0.23 ug/l
RT: 4.05 min Scan# 765
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

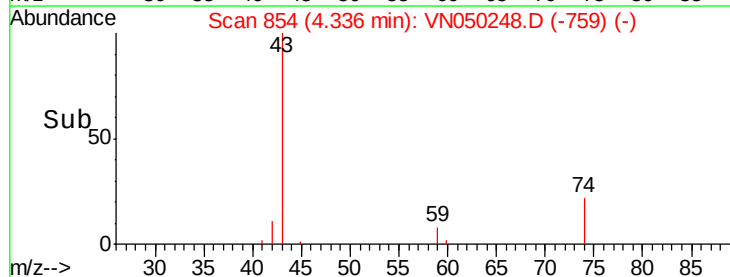
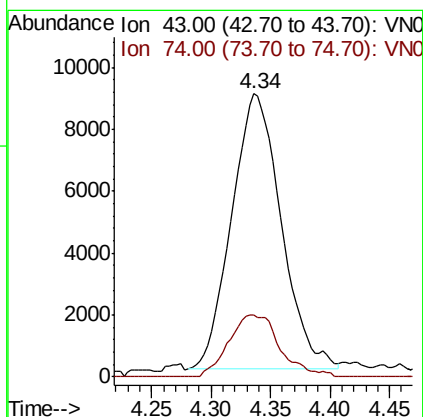
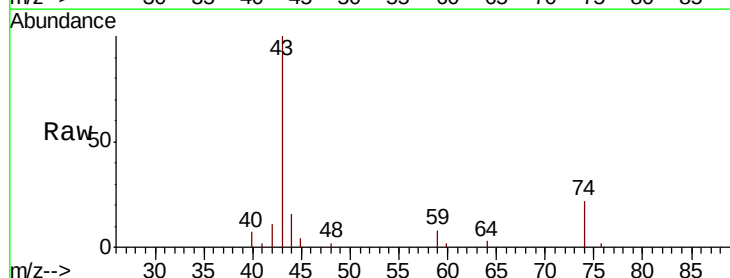
Instrument :
MSVOA_N
ClientSampled :

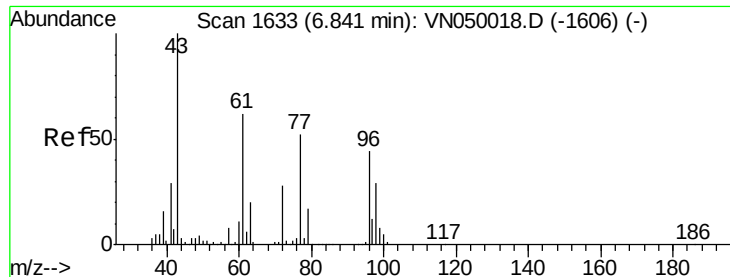
Tot Ion: 76 Resp: 5231
Ion Ratio Lower Upper
76 100
78 8.4 7.3 10.9



#18
Methyl Acetate
Concen: 1.53 ug/l
RT: 4.34 min Scan# 854
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion: 43 Resp: 25510
Ion Ratio Lower Upper
43 100
74 23.0 19.2 28.8

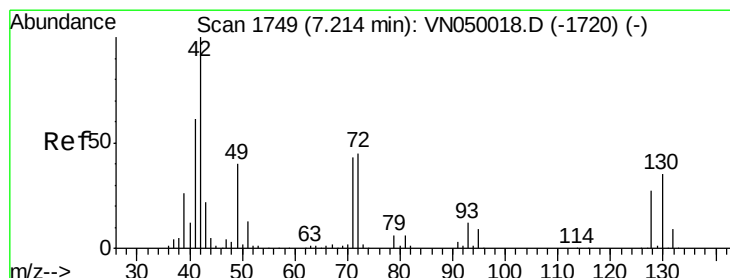
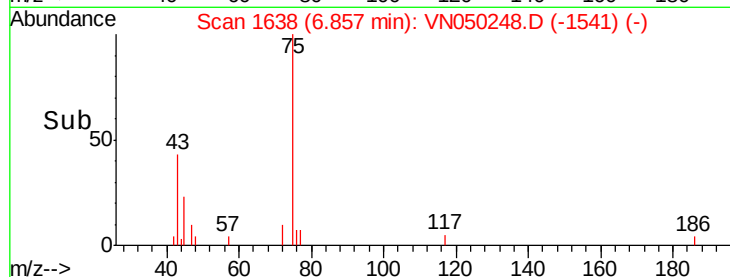
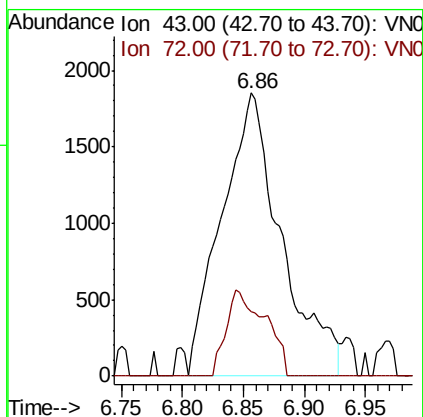
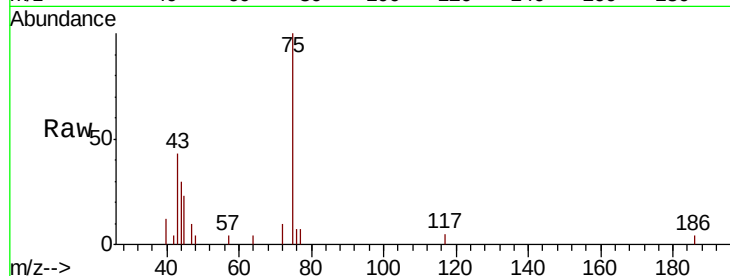




#25
2-Butanone
Concen: 1.83 ug/l
RT: 6.86 min Scan# 1638
Delta R.T. 0.01 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

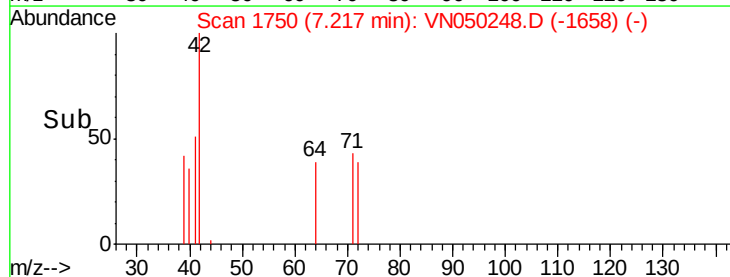
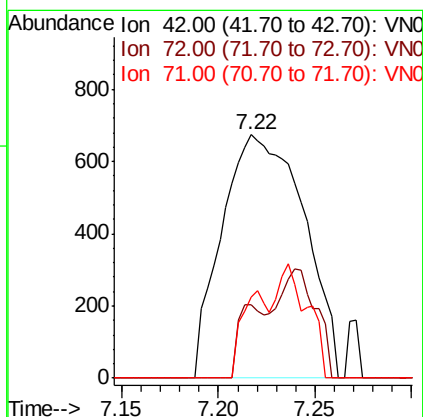
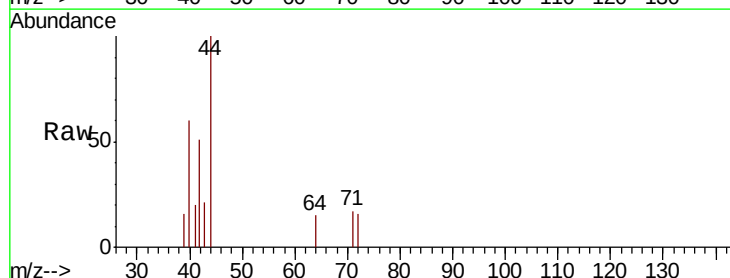
Instrument :
MSVOA_N
ClientSampled :

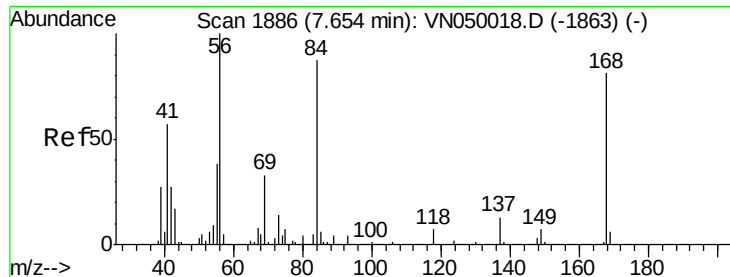
Tot Ion: 43 Resp: 6268
Ion Ratio Lower Upper
43 100
72 22.6 21.5 32.3



#29
Tetrahydrofuran
Concen: 0.90 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. -0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion: 42 Resp: 1985
Ion Ratio Lower Upper
42 100
72 9.1 35.9 53.9#
71 11.6 33.7 50.5#

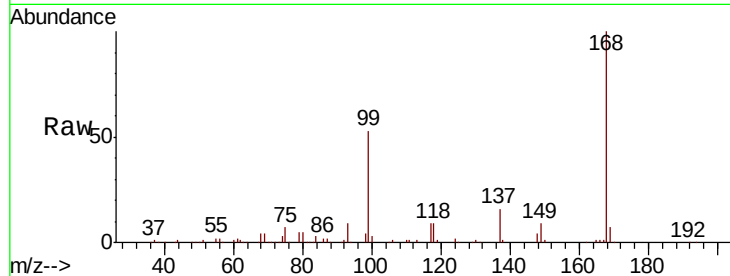




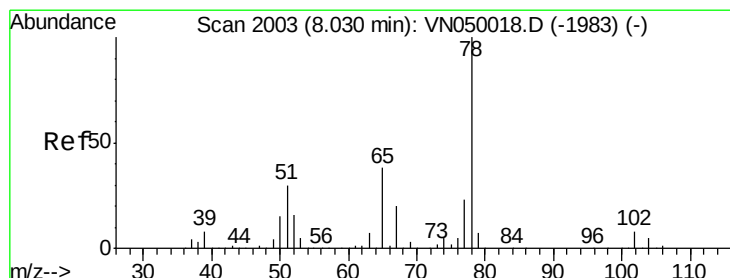
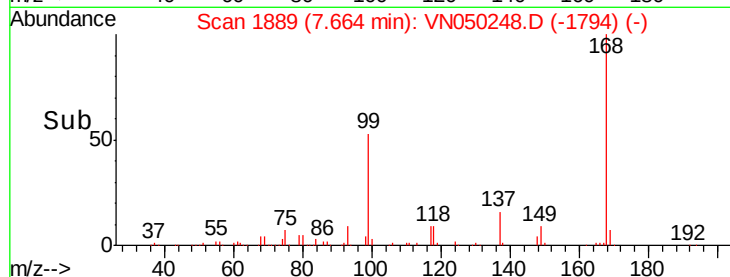
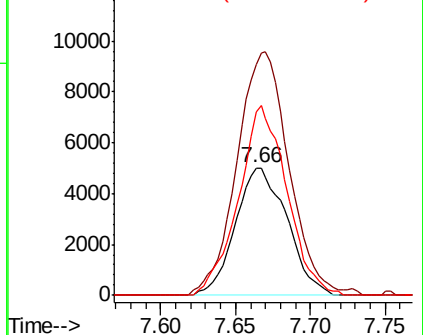
#31
Cyclohexane
Concen: 0.91 ug/l
RT: 7.66 min Scan# 1889
Delta R.T. 0.01 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 12058
Ion Ratio Lower Upper
56 100
69 181.6 26.2 39.4#
84 144.5 67.4 101.0#

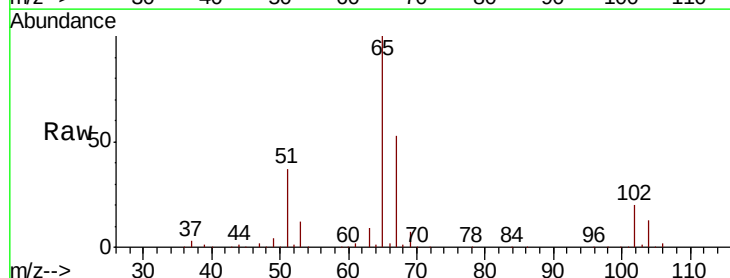


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

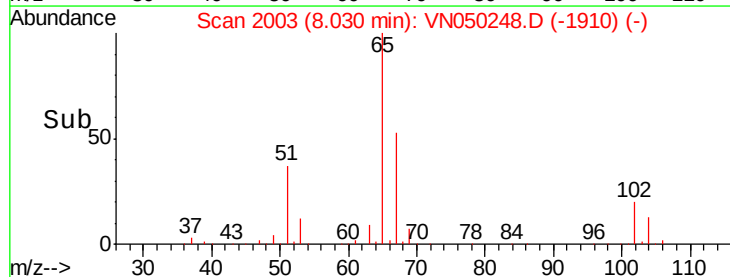
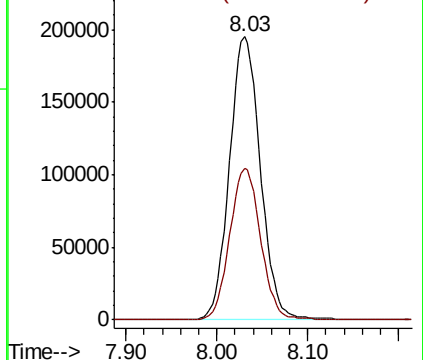


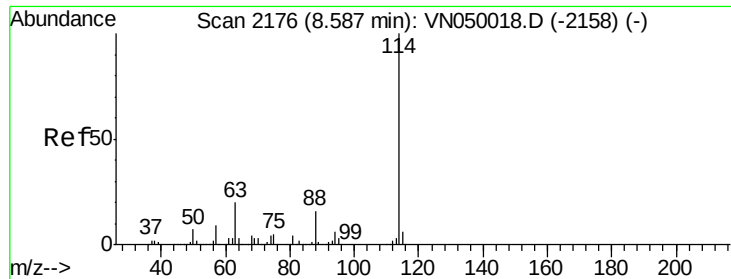
#33
1,2-Dichloroethane-d4
Concen: 51.42 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion: 65 Resp: 461093
Ion Ratio Lower Upper
65 100
67 53.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

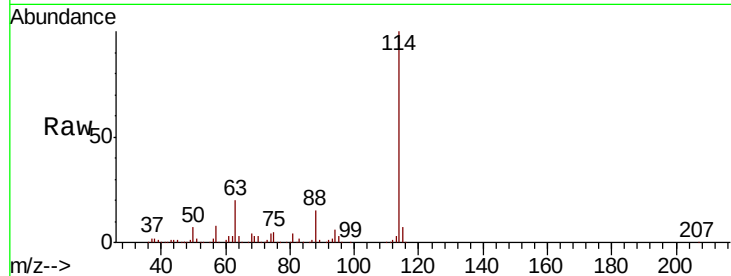




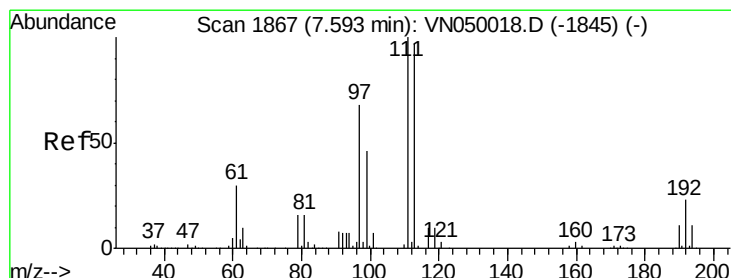
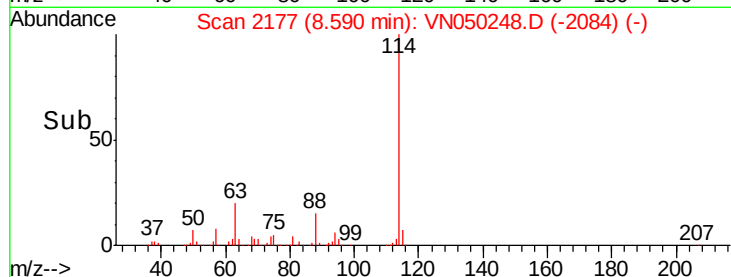
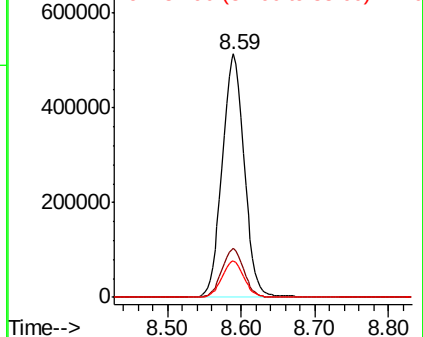
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050248.D
 Acq: 1 Aug 2018 14:45

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 1071401
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.0
 88 15.1 0.0 31.2

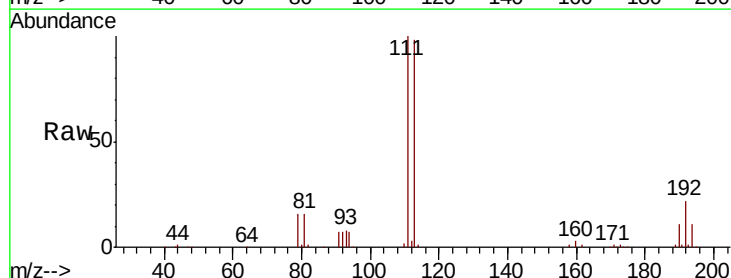


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

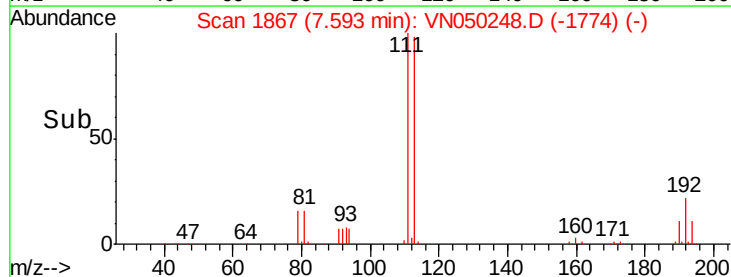
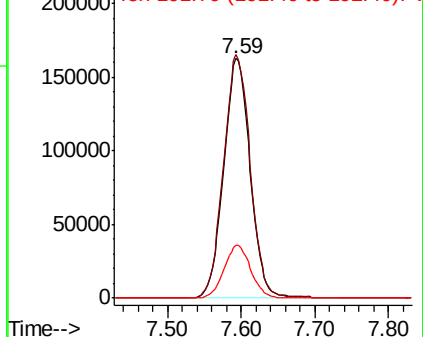


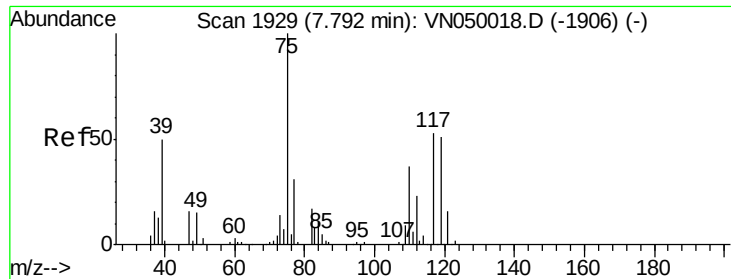
#35
 Dibromofluoromethane
 Concen: 46.39 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050248.D
 Acq: 1 Aug 2018 14:45

Tgt Ion:113 Resp: 405831
 Ion Ratio Lower Upper
 113 100
 111 102.7 80.7 121.1
 192 22.1 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

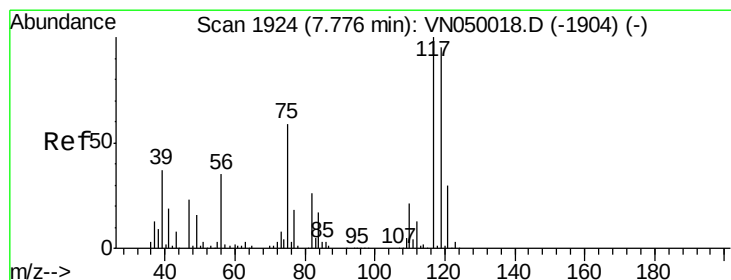
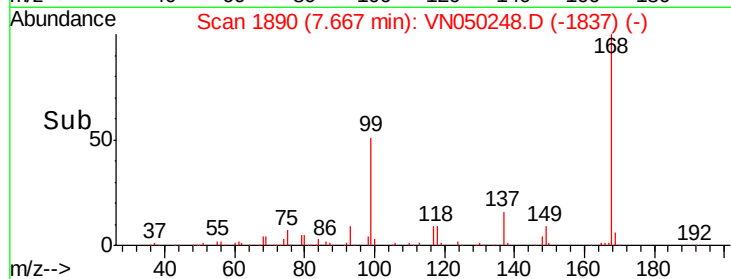
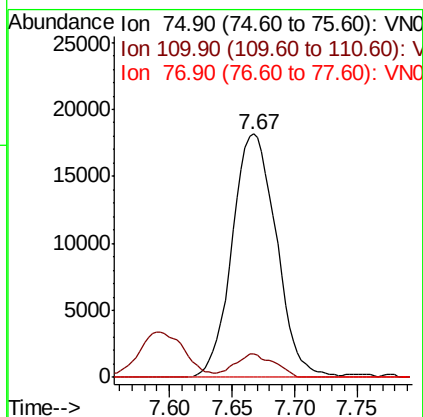
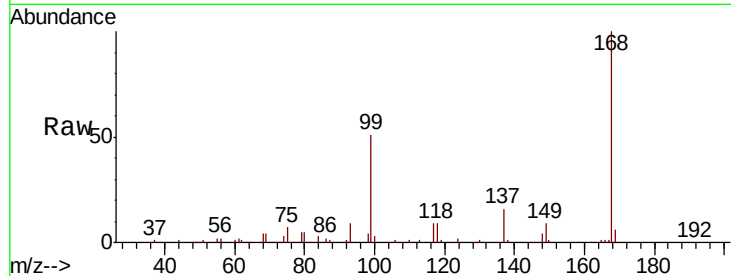




#36
 1,1-Dichloropropene
 Concen: 3.69 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050248.D
 Acq: 1 Aug 2018 14:45

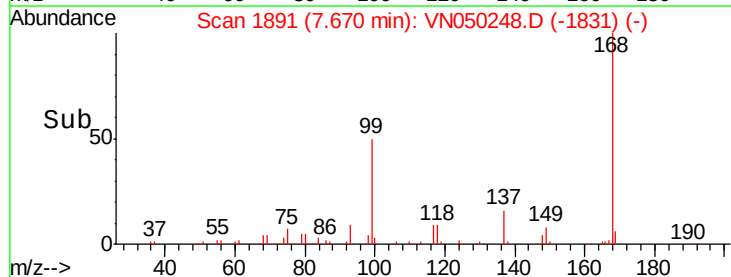
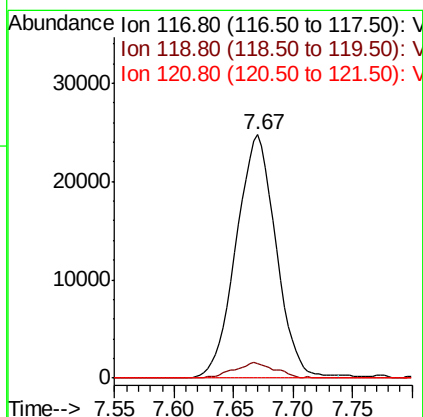
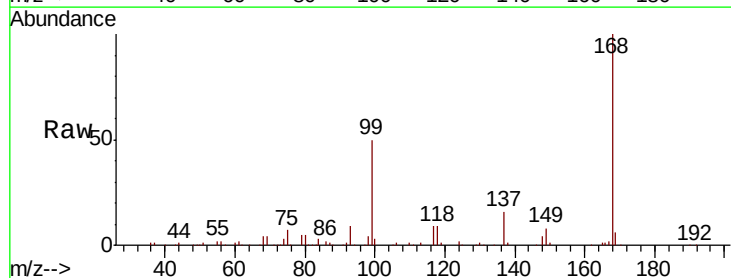
Instrument :
 MSVOA_N
 ClientSampled :

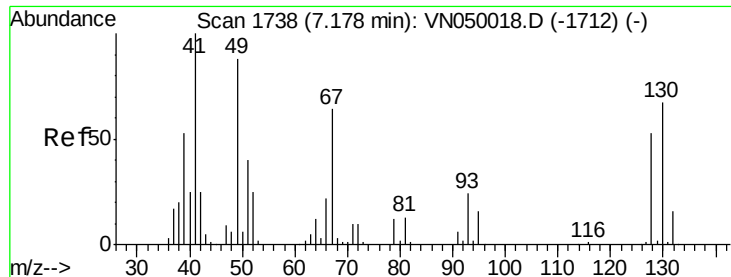
Tot Ion	75	Resp	44565
Ion Ratio	100	Lower	Upper
75	100		
110	8.7	18.4	55.2#
77	0.0	25.3	37.9#



#38
 Carbon Tetrachloride
 Concen: 4.49 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.11 min
 Lab File: VN050248.D
 Acq: 1 Aug 2018 14:45

Tgt Ion	117	Resp	57552
Ion Ratio <td>100</td> <td>Lower</td> <td>Upper</td>	100	Lower	Upper
117	100		
119	6.0	77.4	116.0#
121	0.0	23.9	35.9#

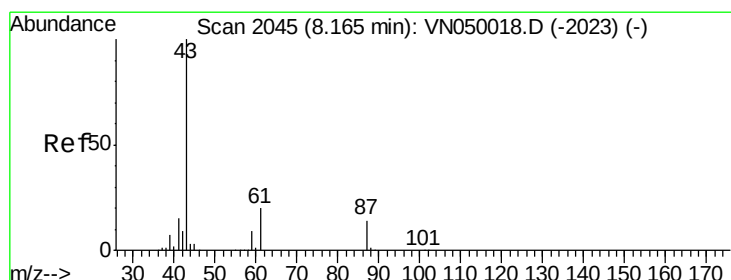
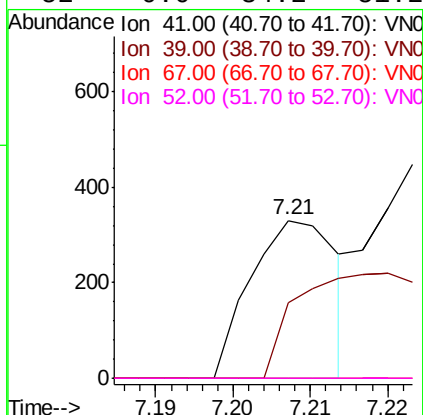
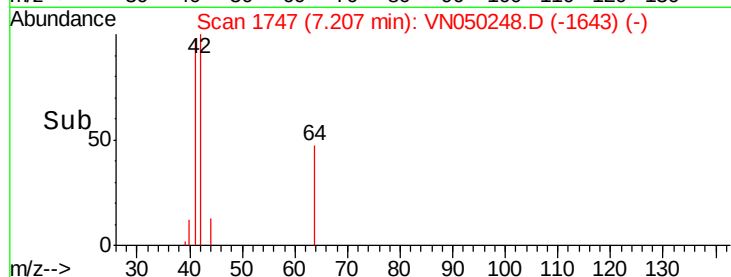
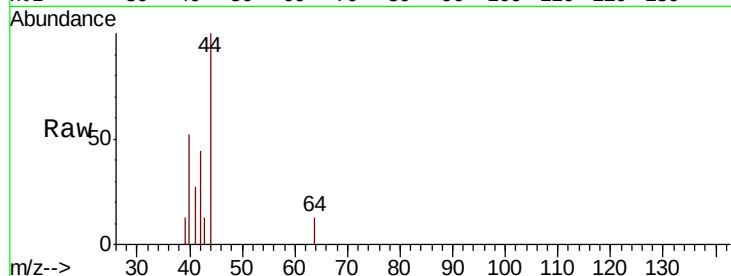




#41
Methacrylonitrile
Concen: 2.80 ug/l
RT: 7.21 min Scan# 1747
Delta R.T. 0.03 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

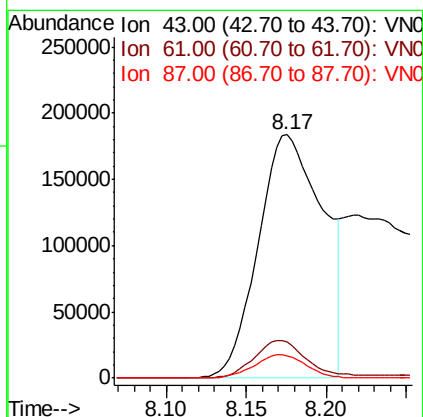
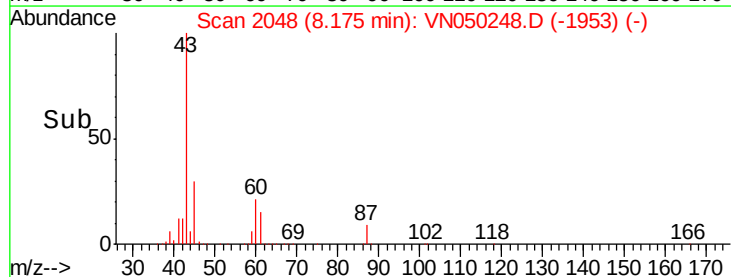
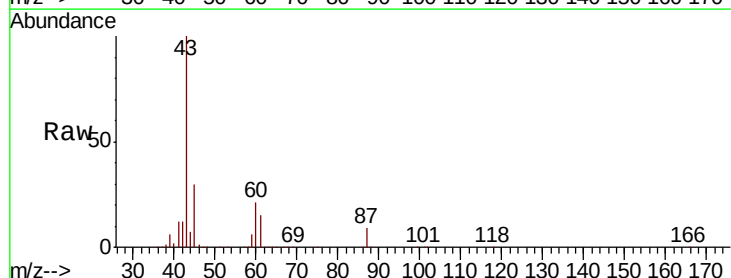
Instrument :
MSVOA_N
ClientSampled :

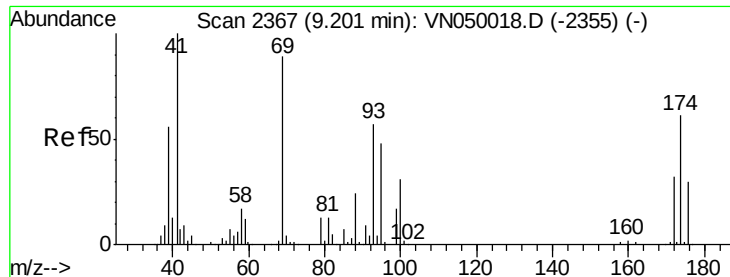
Tot Ion: 41 Resp: 257
Ion Ratio Lower Upper
41 100
39 102.7 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#



#43
Isopropyl Acetate
Concen: 32.21 ug/l
RT: 8.17 min Scan# 2048
Delta R.T. 0.01 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion: 43 Resp: 517207
Ion Ratio Lower Upper
43 100
61 13.1 15.8 23.6#
87 7.8 10.3 15.5#

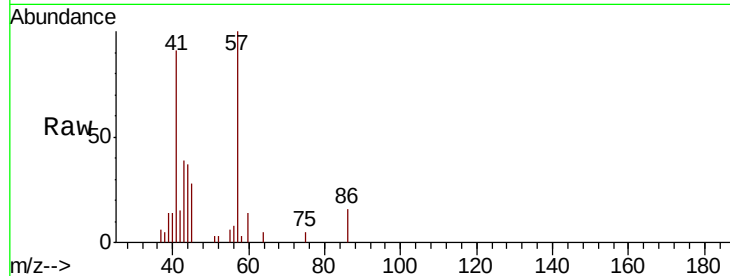




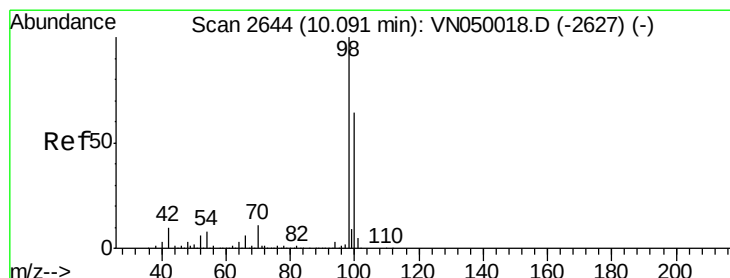
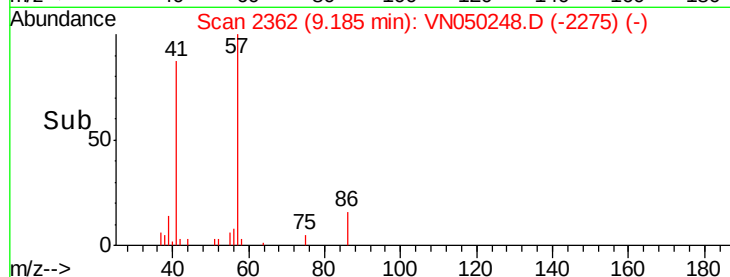
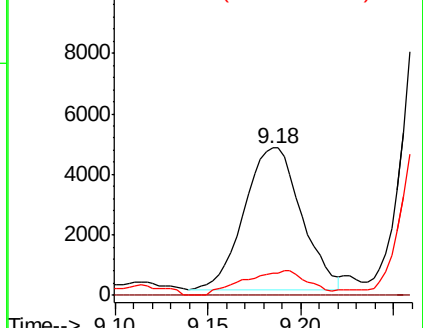
#48
Methvl methacrylate
Concen: 1.38 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 41 Resp: 9999
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 19.7 43.9 65.9#

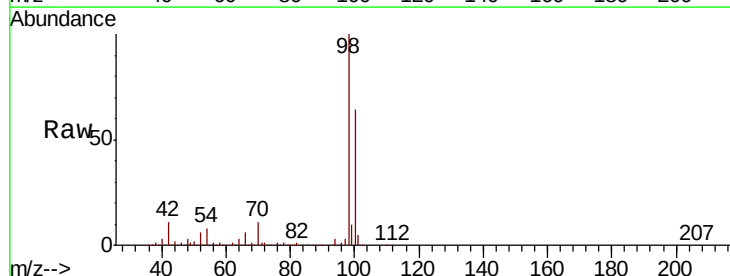


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

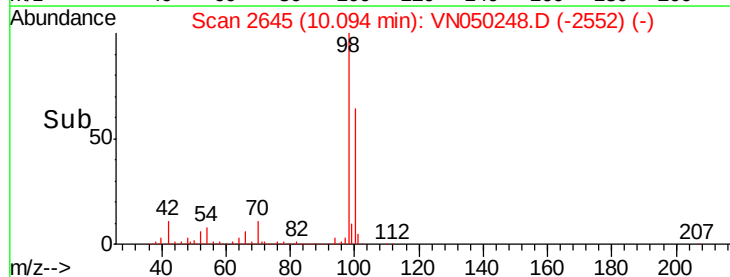
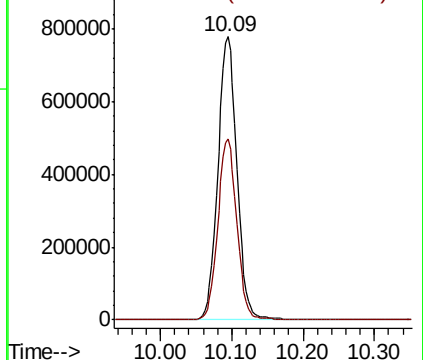


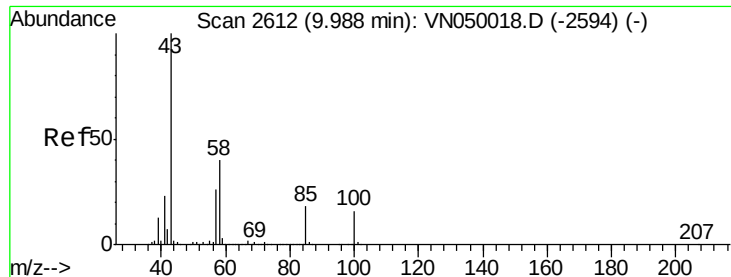
#50
Toluene-d8
Concen: 44.74 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion: 98 Resp: 1438827
Ion Ratio Lower Upper
98 100
100 63.7 50.7 76.1



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

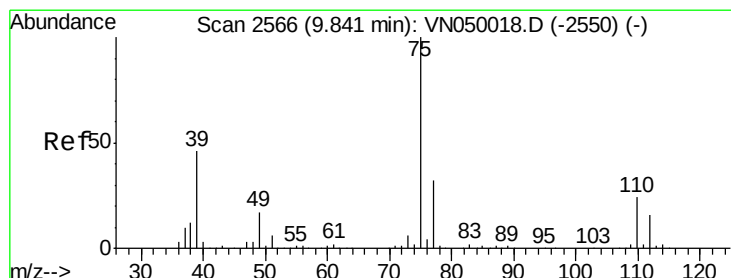
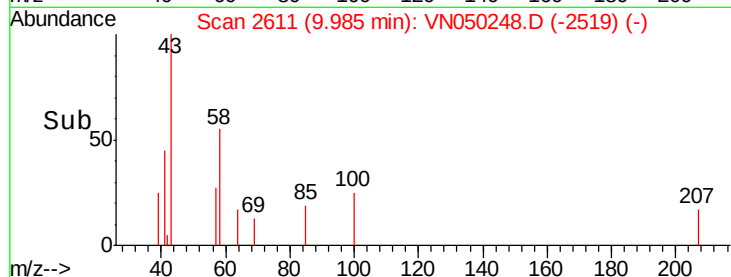
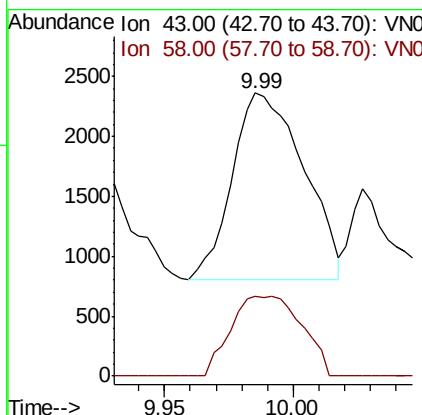
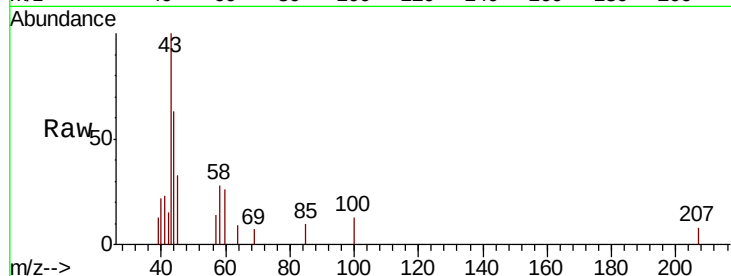




#51
 4-Methyl-2-Pentanone
 Concen: 0.37 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN050248.D
 Acq: 1 Aug 2018 14:45

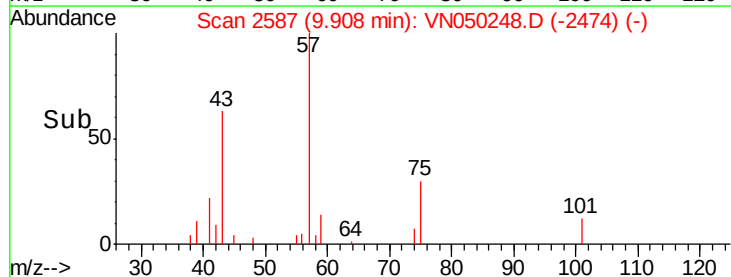
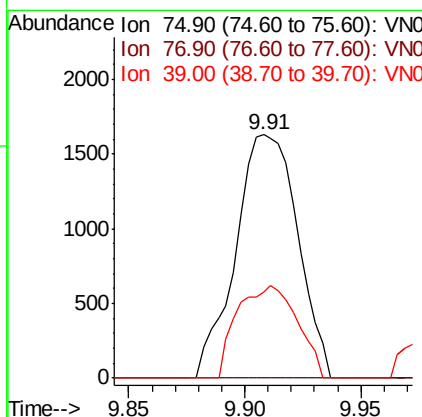
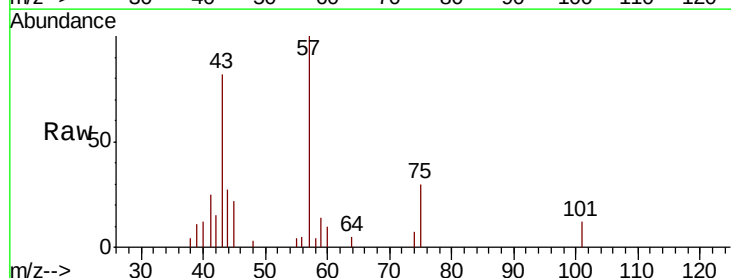
Instrument :
 MSVOA_N
 ClientSampled :

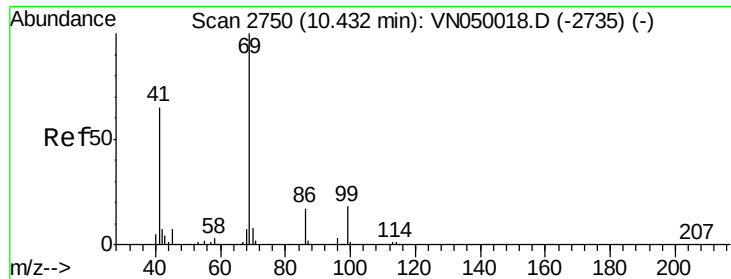
Tot Ion: 43 Resp: 3020
 Ion Ratio Lower Upper
 43 100
 58 42.3 31.9 47.9



#54
 cis-1,3-Dichloropropene
 Concen: 0.22 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.06 min
 Lab File: VN050248.D
 Acq: 1 Aug 2018 14:45

Tgt Ion: 75 Resp: 3025
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 35.5 36.6 55.0#





#56

Ethyl methacrylate

Concen: 2.30 ug/l

RT: 10.23 min Scan# 2687

Delta R.T. -0.20 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

Instrument :

MSVOA_N

ClientSampled :

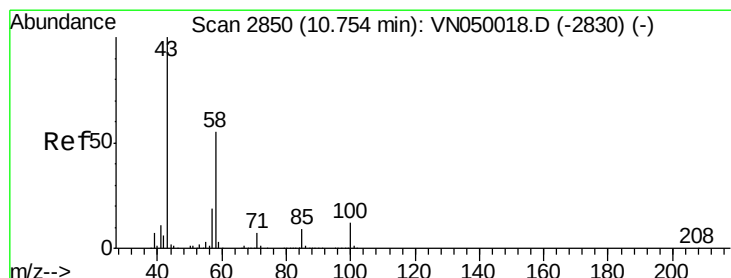
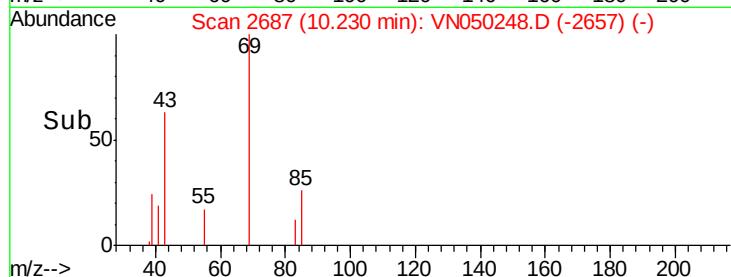
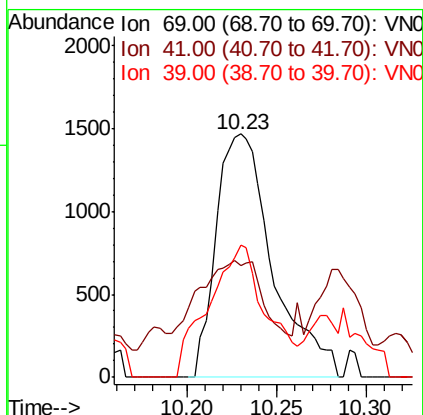
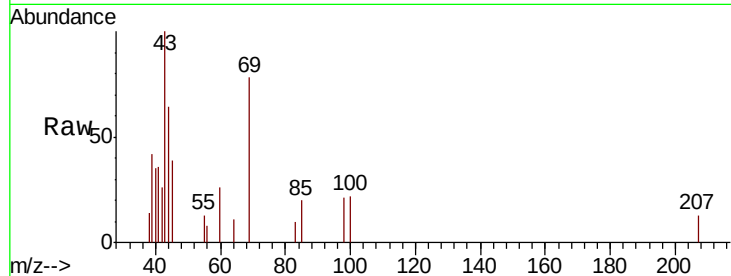
Tot Ion: 69 Resp: 3242

Ion Ratio Lower Upper

69 100

41 47.6 51.0 76.4#

39 55.6 26.6 40.0#



#59

2-Hexanone

Concen: 9.08 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050248.D

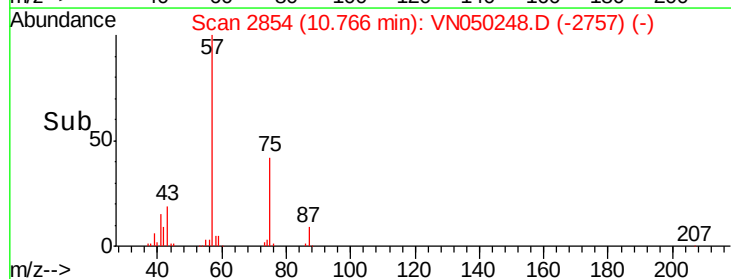
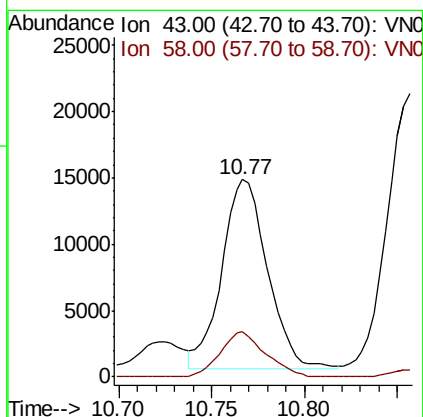
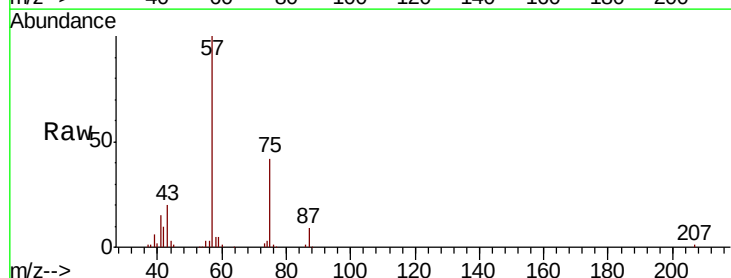
Acq: 1 Aug 2018 14:45

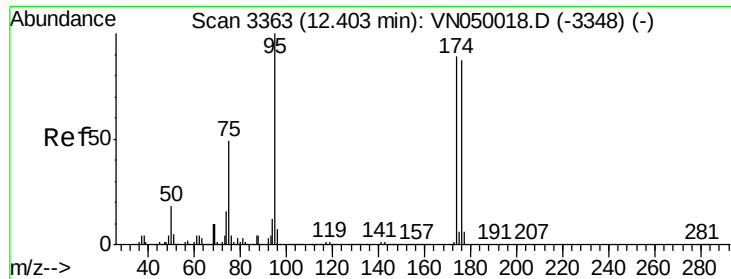
Tgt Ion: 43 Resp: 24247

Ion Ratio Lower Upper

43 100

58 23.6 27.6 82.7#

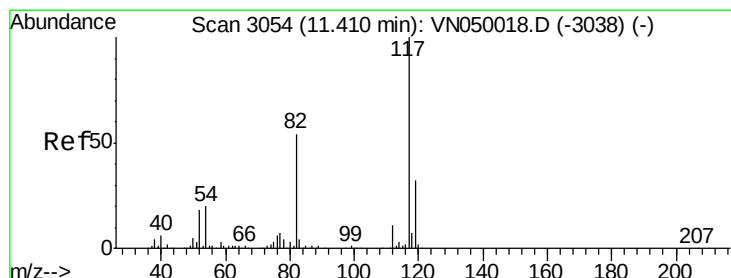
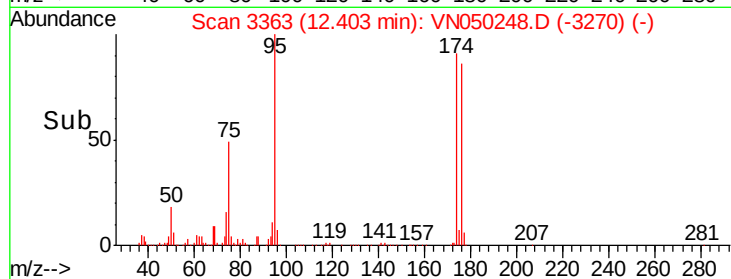
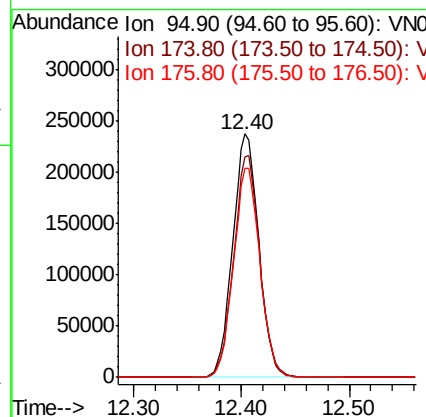
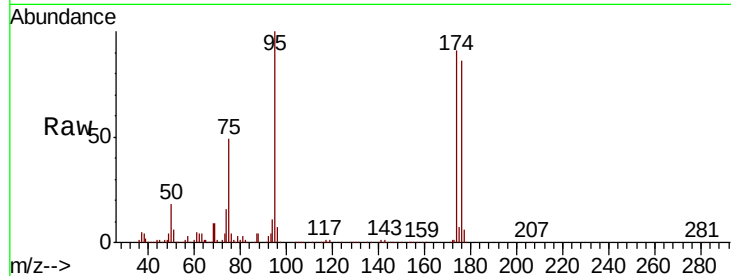




#62
4-Bromofluorobenzene
Concen: 37.73 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

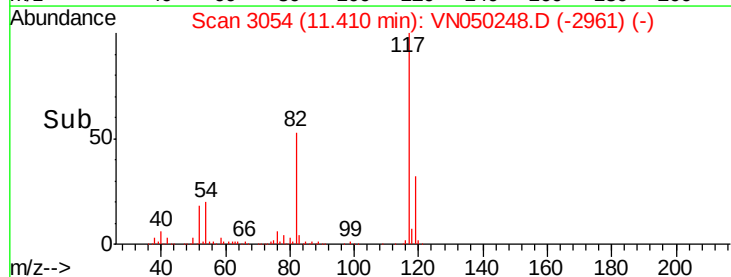
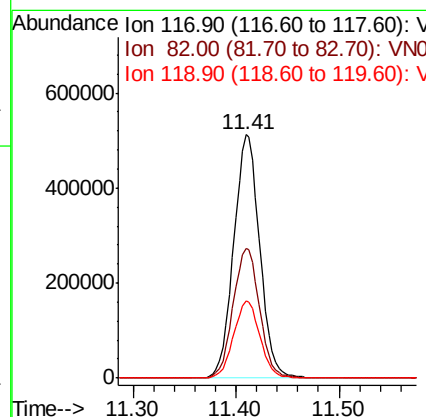
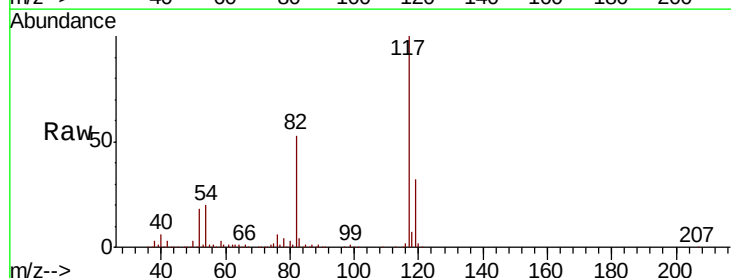
Instrument :
MSVOA_N
ClientSampleId :

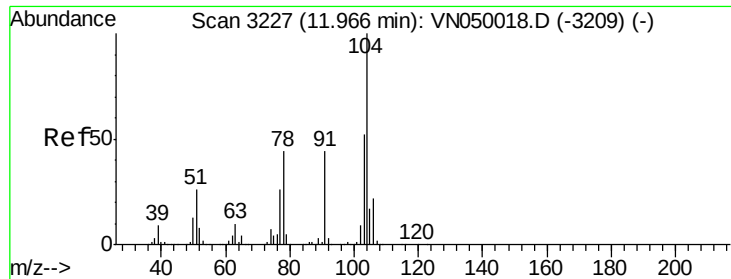
Tot Ion	Ratio	Lower	Upper
95	100		
174	91.3	0.0	178.2
176	86.9	0.0	173.4



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.4	43.7	65.5
119	31.7	26.1	39.1





#70

Stvrene

Concen: 0.93 ug/l

RT: 11.97 min Scan# 3227

Delta R.T. 0.00 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

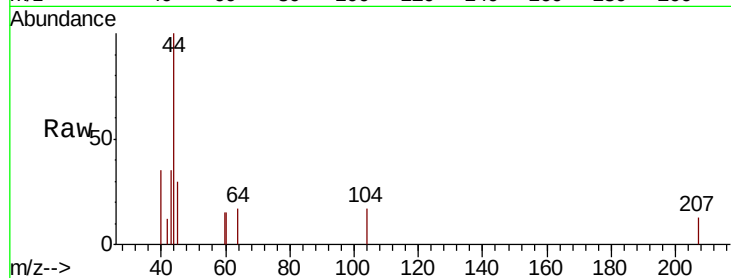
Tot Ion:104 Resp: 180

Ion Ratio Lower Upper

104 100

78 0.0 39.3 58.9#

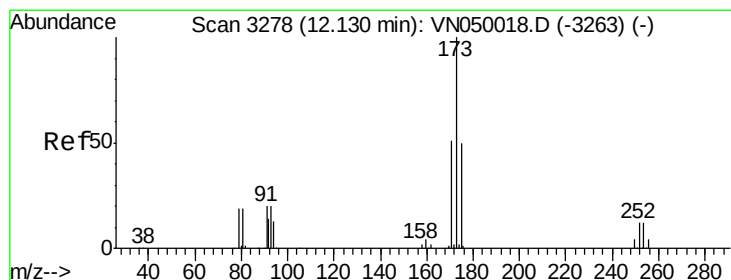
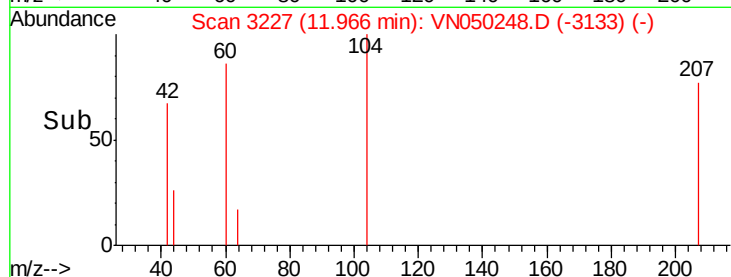
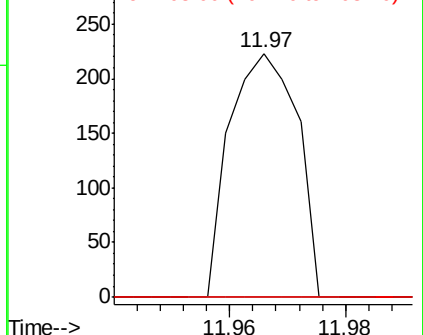
103 0.0 45.0 67.6#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): V

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.49 ug/l

RT: 12.40 min Scan# 3362

Delta R.T. 0.27 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

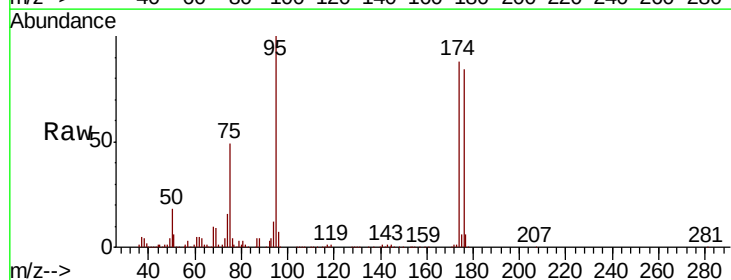
Tgt Ion:173 Resp: 3088

Ion Ratio Lower Upper

173 100

175 769.2 24.1 72.2#

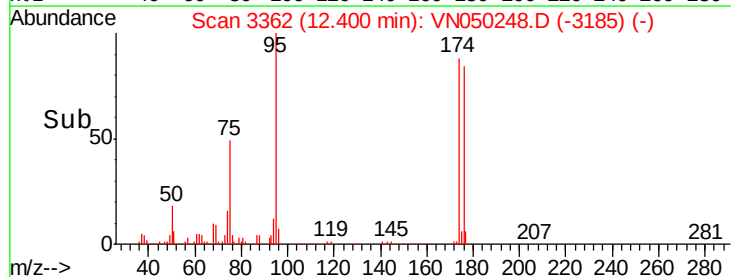
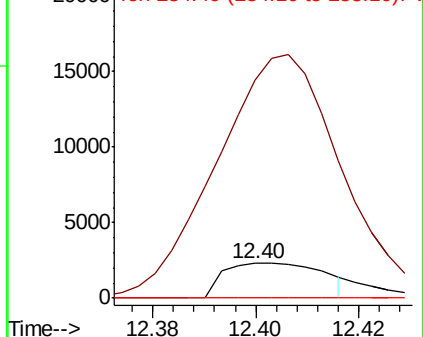
254 0.0 0.2 0.2#

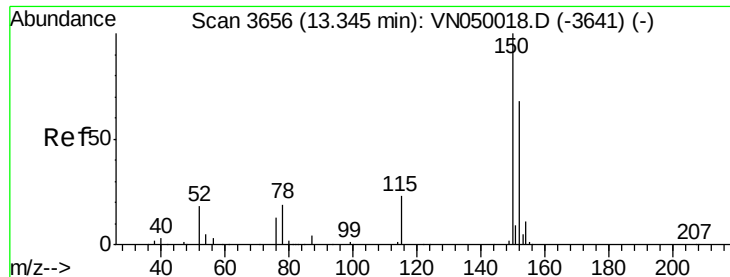


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN050248.D

Acq: 1 Aug 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

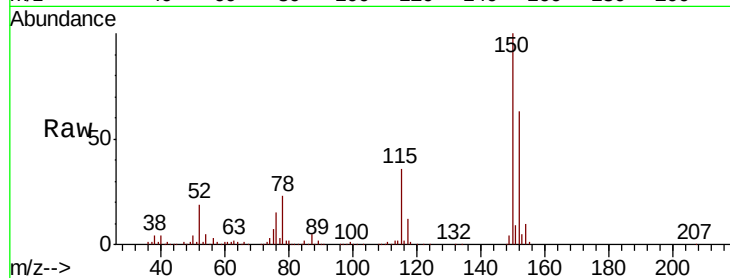
Tot Ion:152 Resp: 336670

Ion Ratio Lower Upper

152 100

115 56.6 27.8 83.3

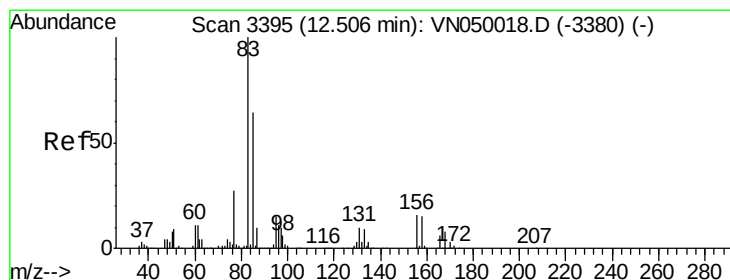
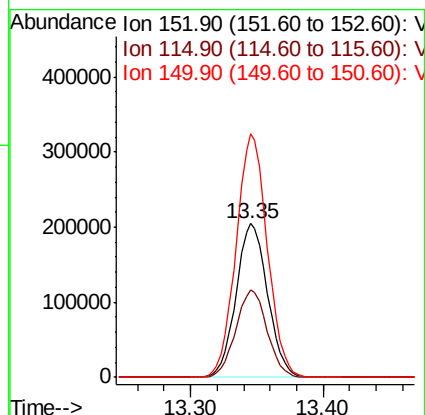
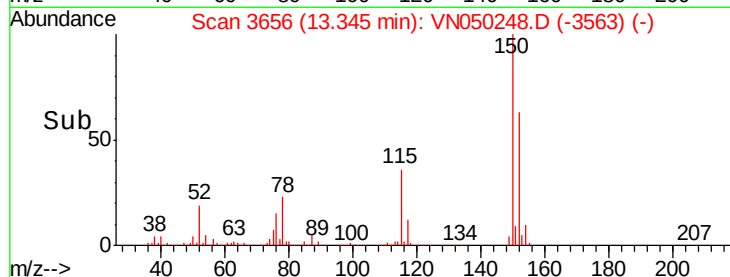
150 156.7 0.0 348.6



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: 12.41 min Scan# 3365

Delta R.T. -0.10 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

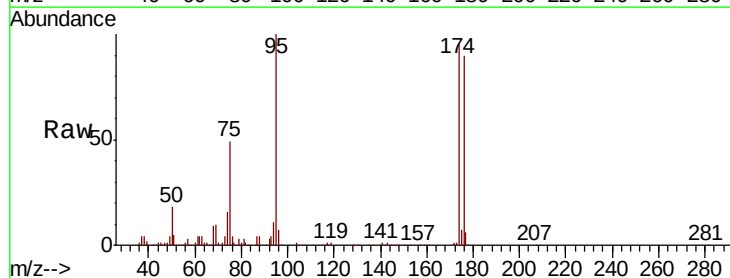
Tgt Ion: 83 Resp: 228

Ion Ratio Lower Upper

83 100

131 175.9 5.1 15.3#

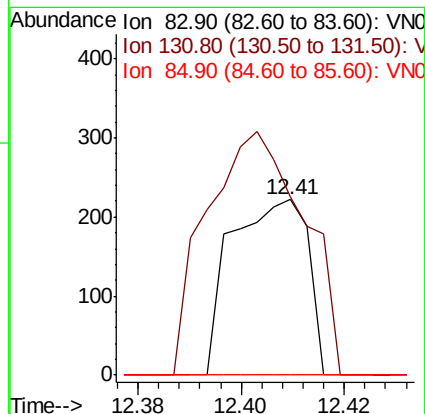
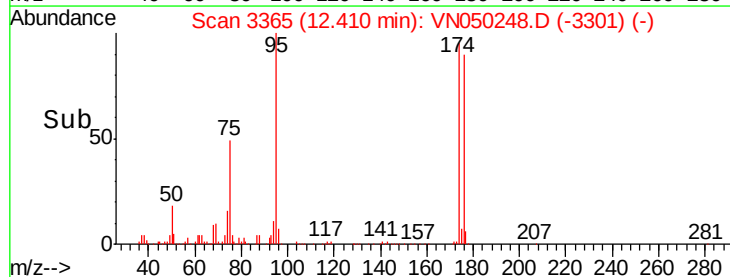
85 0.0 32.3 96.8#

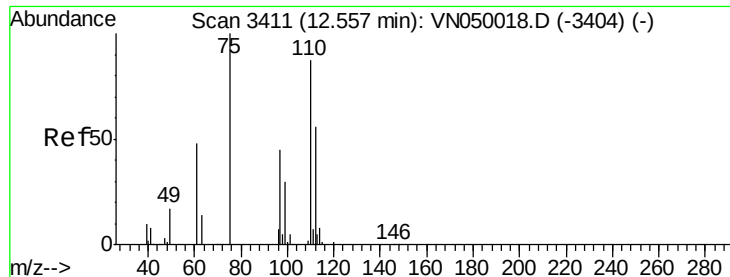


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 31.34 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

Instrument :

MSVOA_N

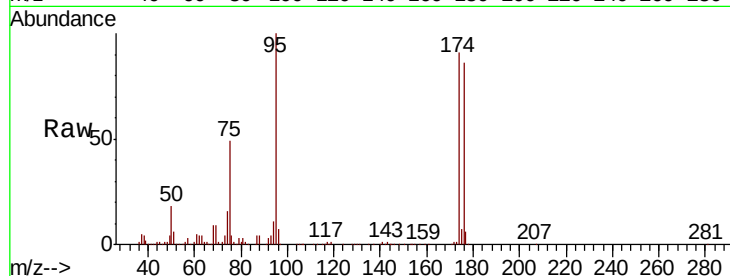
ClientSampled :

Tot Ion: 75 Resp: 196070

Ion Ratio Lower Upper

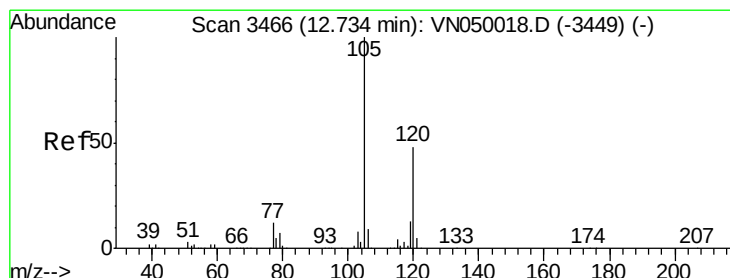
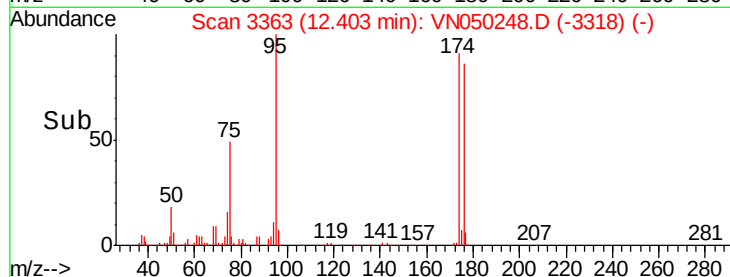
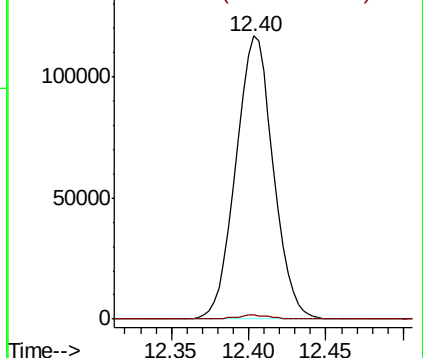
75 100

77 1.4 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: 0.21 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.00 min

Lab File: VN050248.D

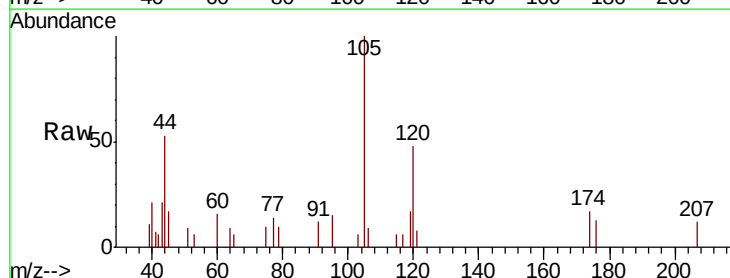
Acq: 1 Aug 2018 14:45

Tgt Ion:105 Resp: 4374

Ion Ratio Lower Upper

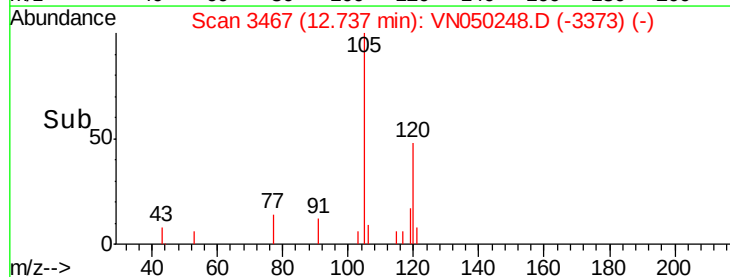
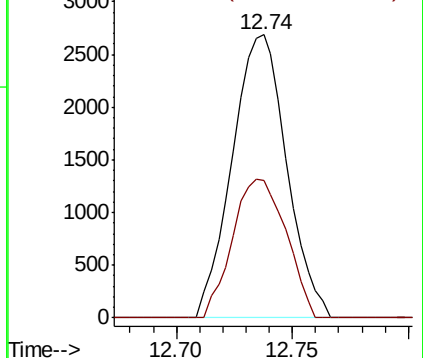
105 100

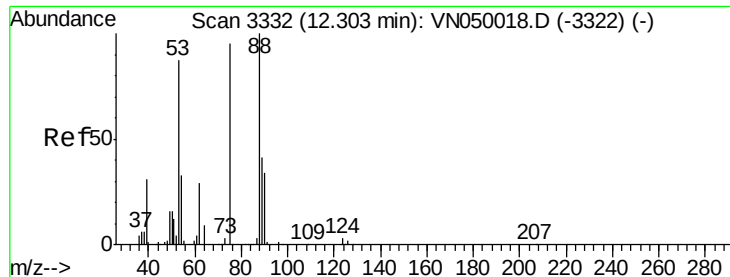
120 48.0 24.4 73.2



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: 99.40 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

Instrument :

MSVOA_N

ClientSampleId :

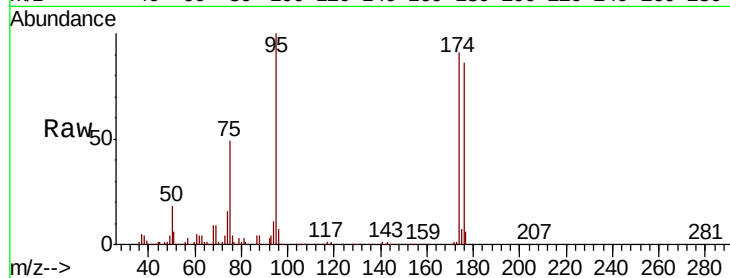
Tot Ion: 75 Resp: 196070

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

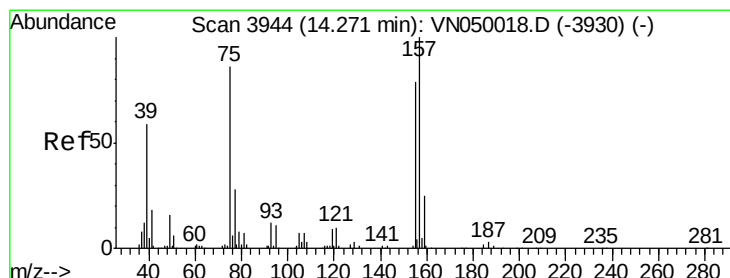
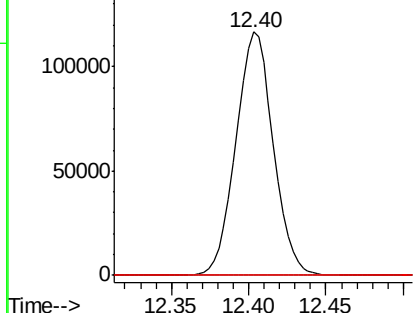
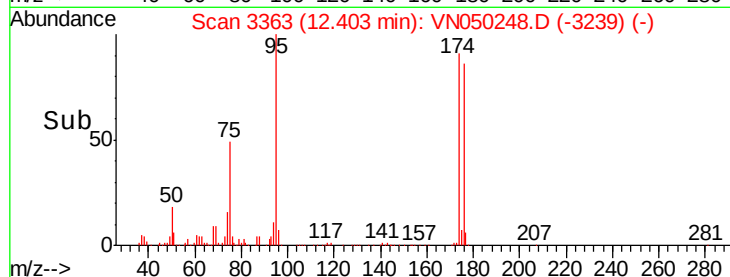
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): 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: 14.25 min Scan# 3938

Delta R.T. -0.02 min

Lab File: VN050248.D

Acq: 1 Aug 2018 14:45

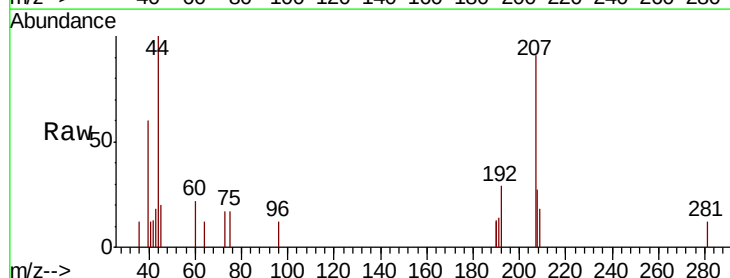
Tgt Ion: 75 Resp: 119

Ion Ratio Lower Upper

75 100

155 0.0 44.8 134.4#

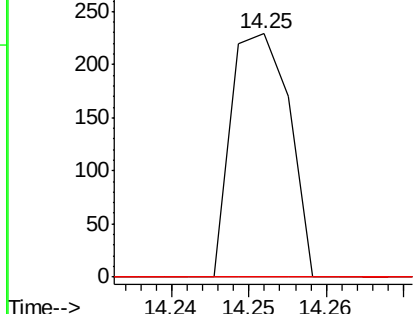
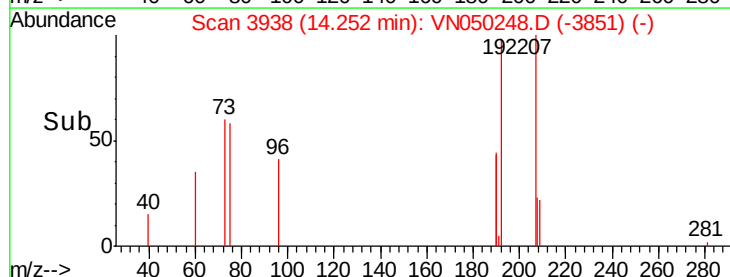
157 0.0 57.2 171.6#

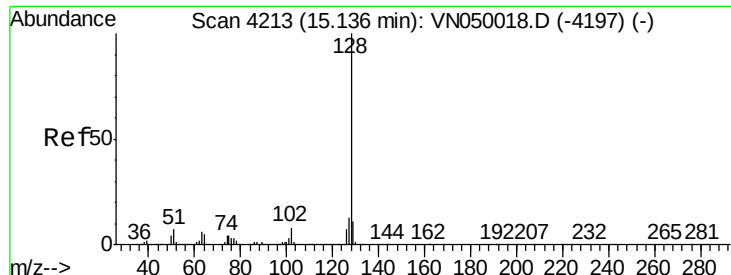


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

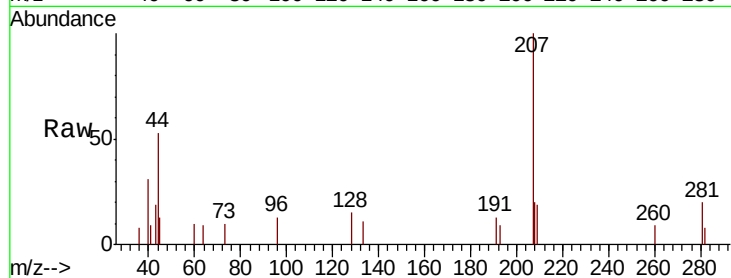




#95
Naphthalene
Concen: 4.44 ug/l
RT: 15.14 min Scan# 4214
Delta R.T. 0.00 min
Lab File: VN050248.D
Acq: 1 Aug 2018 14:45

Instrument :
MSVOA_N
ClientSampleId :

Tot 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): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V

