

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081018\
 Data File : VN050554.D
 Acq On : 11 Aug 2018 7:02
 Operator : MD\SY
 Sample : J4282-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-080918-A

Quant Time: Aug 13 00:45:18 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	613947	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1031965	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	898413	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	344824	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	430903	52.53	ug/l	0.00
Spiked Amount			Recovery	=	105.06%	
35) Dibromofluoromethane	7.59	113	398100	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
50) Toluene-d8	10.09	98	1408214	45.23	ug/l	0.00
Spiked Amount			Recovery	=	90.46%	
62) 4-Bromofluorobenzene	12.40	95	404239	38.10	ug/l	0.00
Spiked Amount			Recovery	=	76.20%	

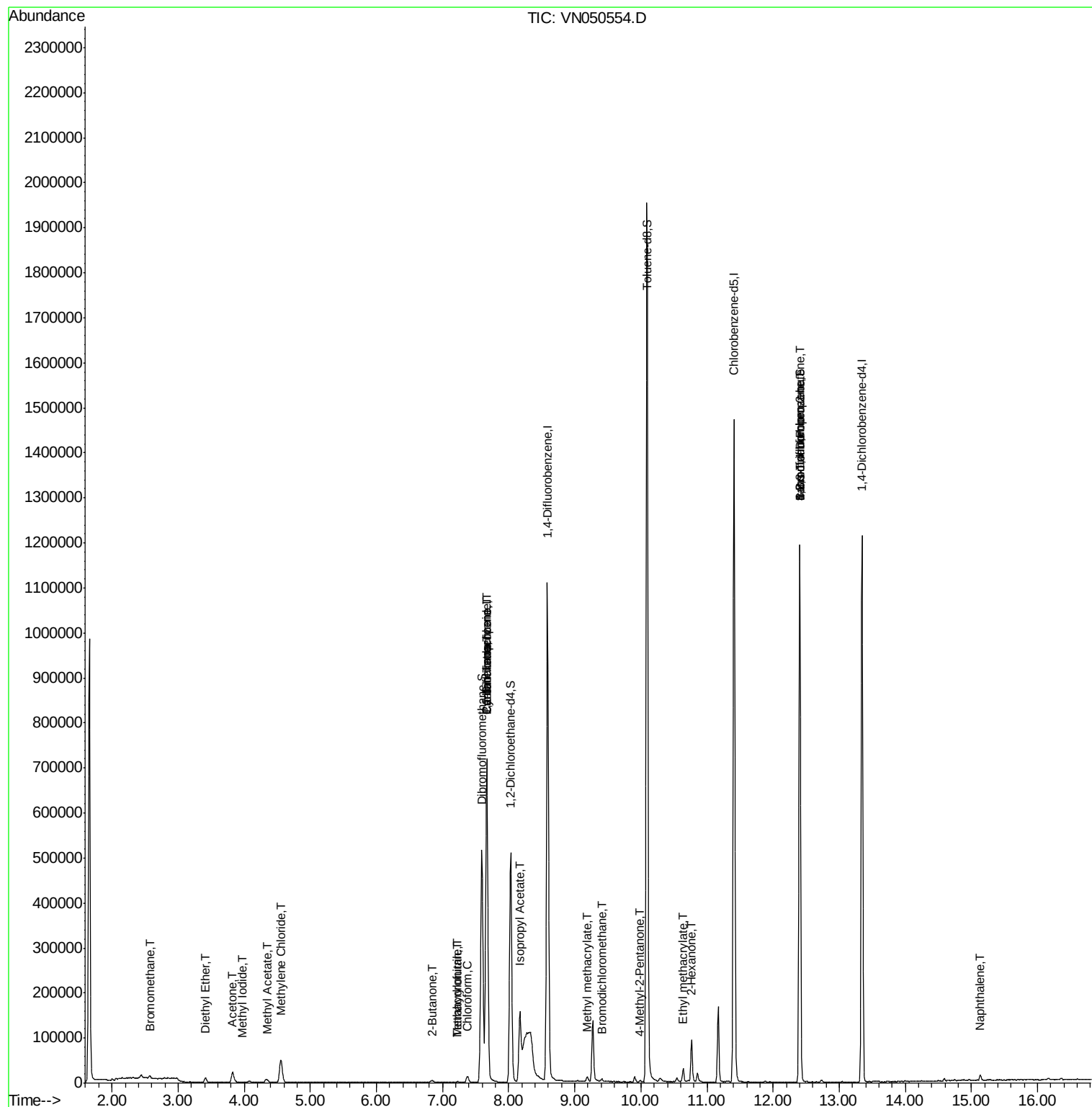
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2422	Below Cal		99
5) Bromomethane	2.57	94	3135	0.90 ug/l		97
8) Diethyl Ether	3.41	74	4695	1.12 ug/l		83
10) Methyl Iodide	3.96	142	654	0.21 ug/l #		53
16) Acetone	3.82	43	40242	16.11 ug/l		98
18) Methyl Acetate	4.34	43	14664	2.12 ug/l #		60
20) Methylene Chloride	4.55	84	41333	4.10 ug/l		95
25) 2-Butanone	6.85	43	1636	0.40 ug/l #		74
29) Tetrahydrofuran	7.23	42	1404	0.65 ug/l		89
30) Chloroform	7.38	83	15951	1.19 ug/l		98
31) Cyclohexane	7.67	56	10926	0.30 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	42961	3.79 ug/l #		48
38) Carbon Tetrachloride	7.67	117	56384	4.77 ug/l #		17
41) Methacrylonitrile	7.23	41	902	0.21 ug/l #		22
43) Isopropyl Acetate	8.17	43	198027	14.05 ug/l		95
47) Bromodichloromethane	9.41	83	3739	0.32 ug/l #		93
48) Methyl methacrylate	9.18	41	7242	1.03 ug/l #		17
51) 4-Methyl-2-Pentanone	9.99	43	2628	0.26 ug/l #		80
56) Ethyl methacrylate	10.63	69	306	1.74 ug/l #		1
59) 2-Hexanone	10.77	43	13254	1.87 ug/l		63
71) Bromoform	12.40	173	3424	0.57 ug/l #		1
76) 1,2,3-Trichloropropane	12.40	75	194682	31.19 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	194682	109.59 ug/l #		13
95) Naphthalene	15.13	128	10466	4.20 ug/l		100

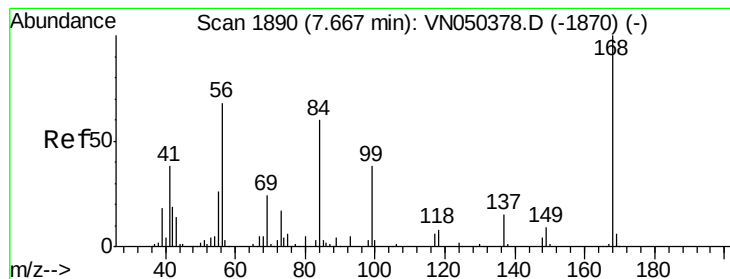
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

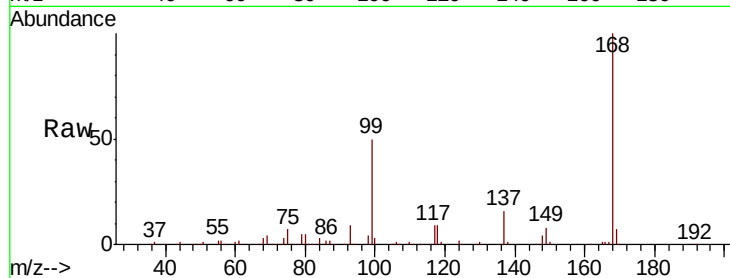
SU-02-080918-A

Tot Ion:168 Resp: 613947

Ion Ratio Lower Upper

168 100

99 50.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

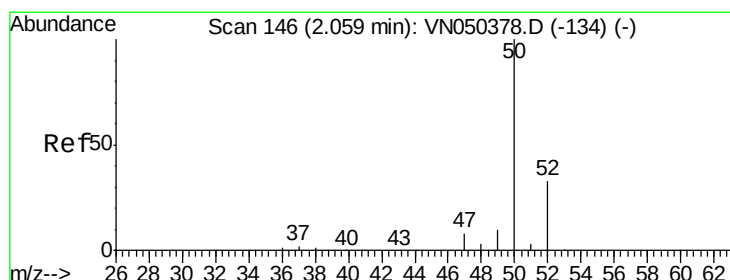
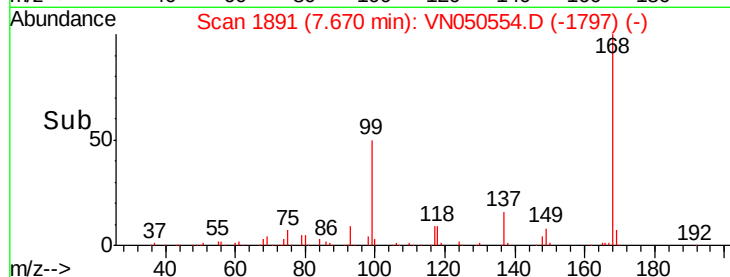
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050554.D

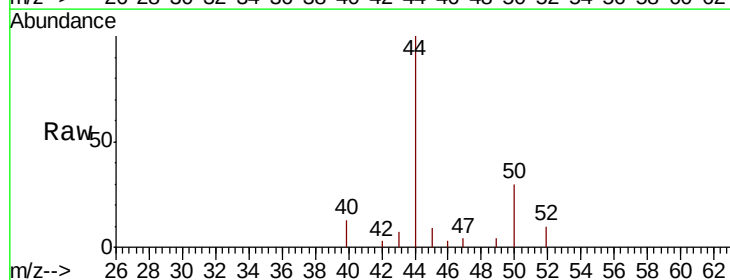
Acq: 11 Aug 2018 7:02

Tgt Ion: 50 Resp: 2422

Ion Ratio Lower Upper

50 100

52 33.2 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

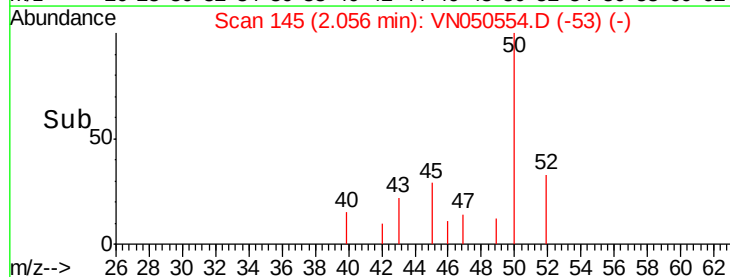
1500

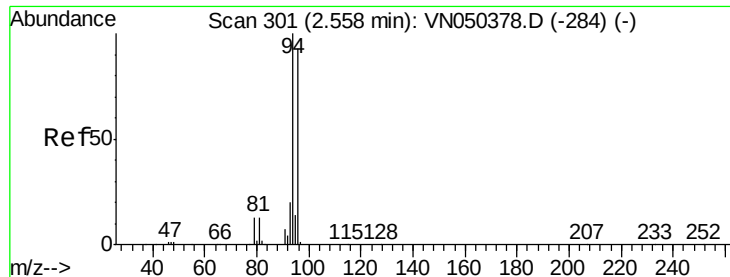
1000

500

0

Time-->





#5

Bromomethane

Concen: 0.90 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

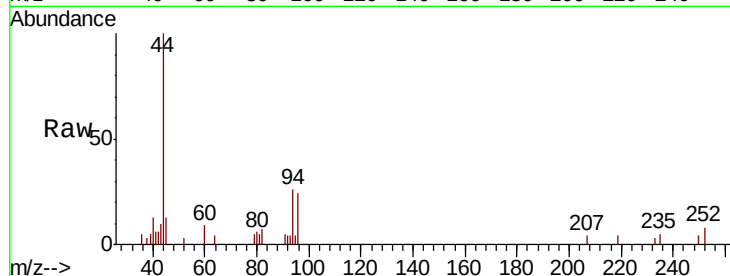
SU-02-080918-A

Tot Ion: 94 Resp: 3135

Ion Ratio Lower Upper

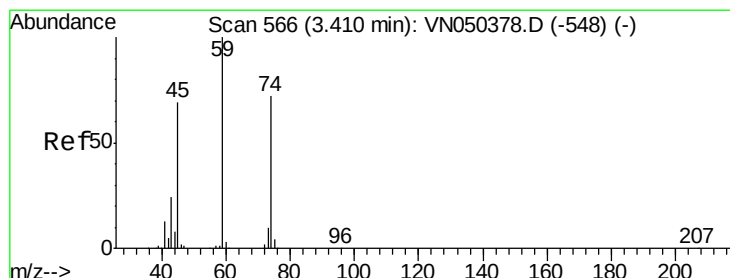
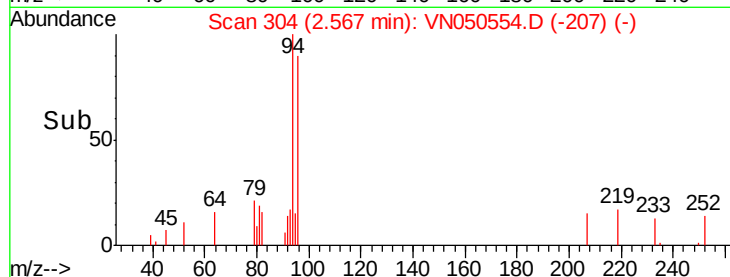
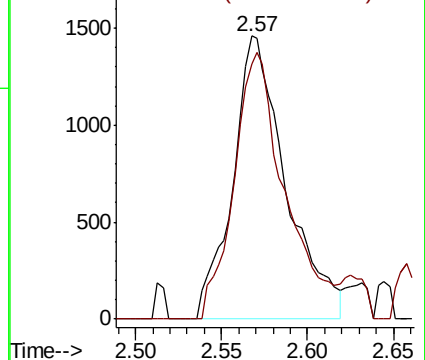
94 100

96 90.3 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#8

Diethyl Ether

Concen: 1.12 ug/l

RT: 3.41 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN050554.D

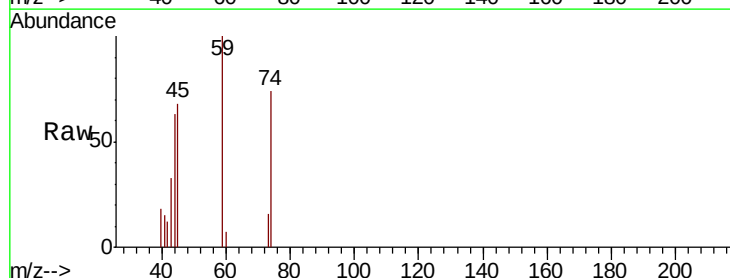
Acq: 11 Aug 2018 7:02

Tgt Ion: 74 Resp: 4695

Ion Ratio Lower Upper

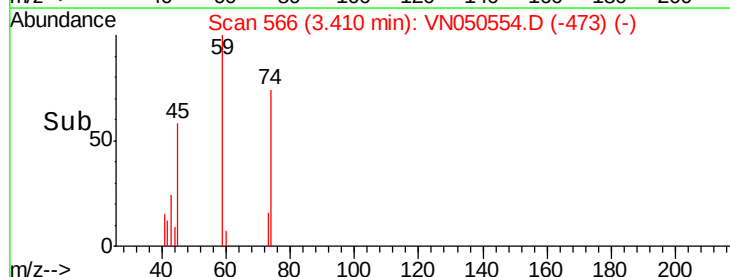
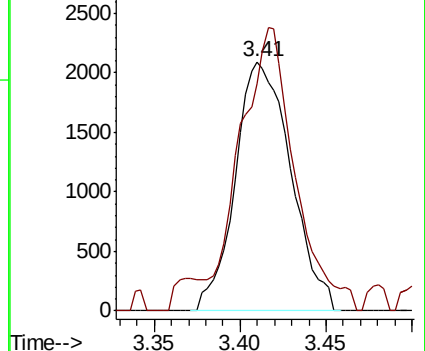
74 100

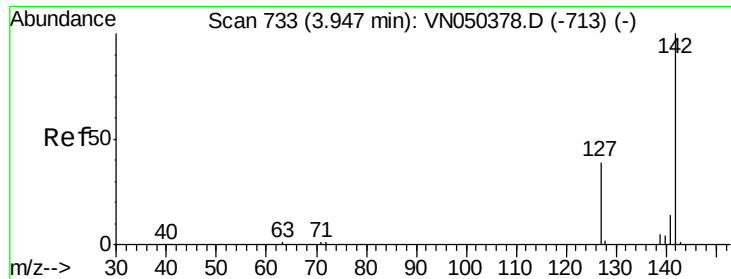
45 111.9 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

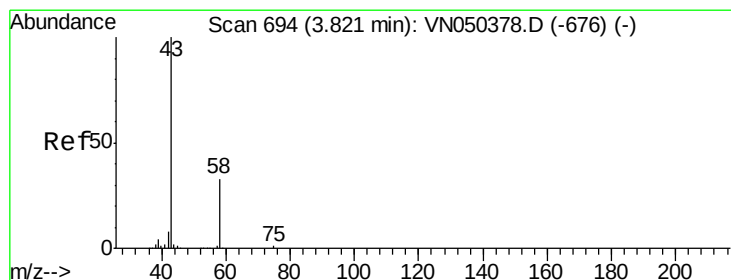
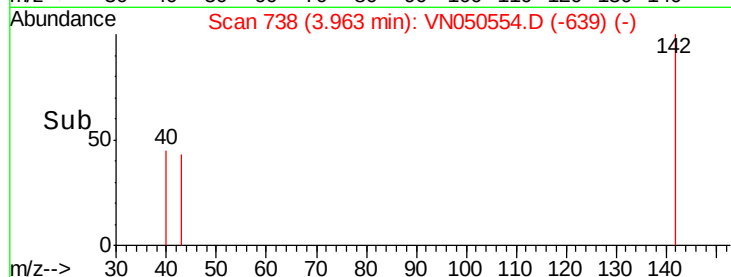
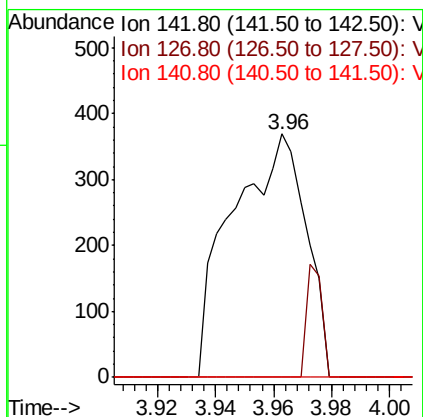
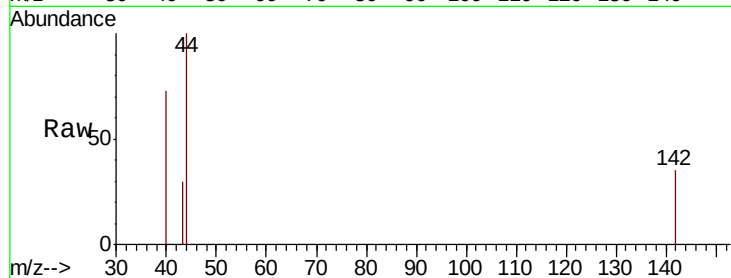




#10
Methvl Iodide
Concen: 0.21 ug/l
RT: 3.96 min Scan# 738
Delta R.T. 0.02 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

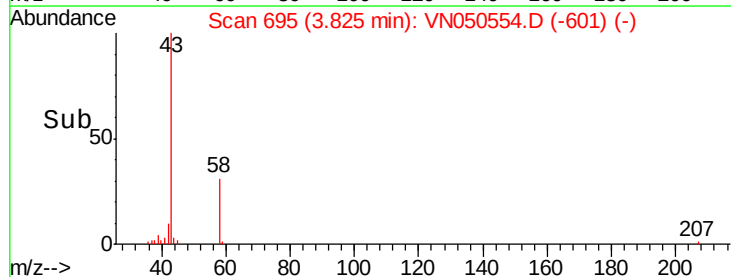
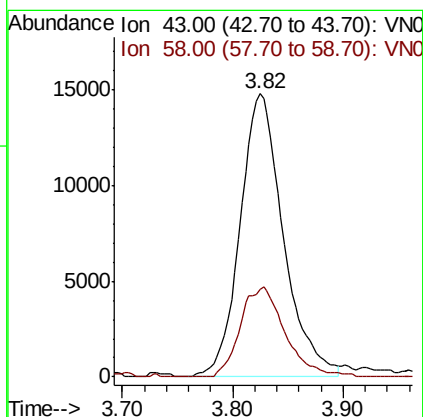
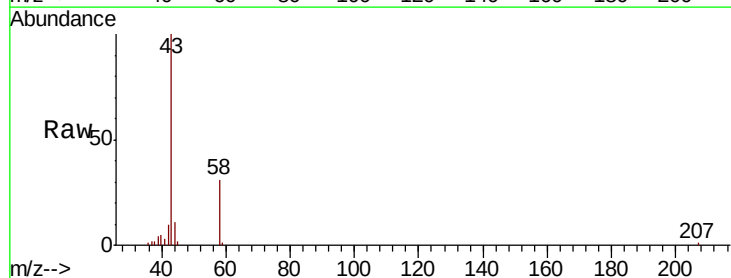
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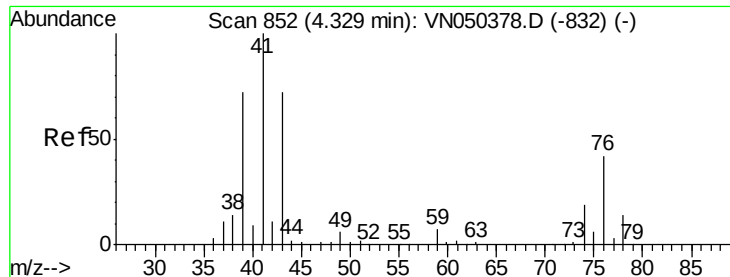
Tot Ion:142 Resp: 654
Ion Ratio Lower Upper
142 100
127 9.6 33.4 50.2#
141 0.0 11.6 17.4#



#16
Acetone
Concen: 16.11 ug/l
RT: 3.82 min Scan# 695
Delta R.T. 0.00 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion: 43 Resp: 40242
Ion Ratio Lower Upper
43 100
58 31.1 25.8 38.8

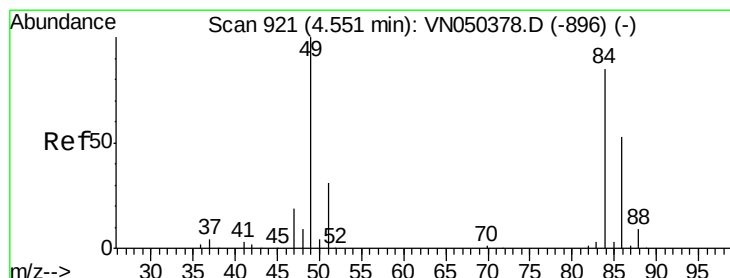
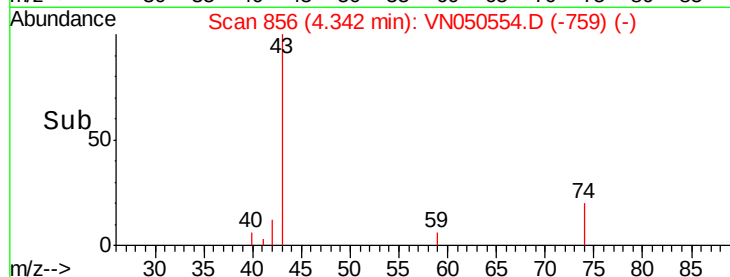
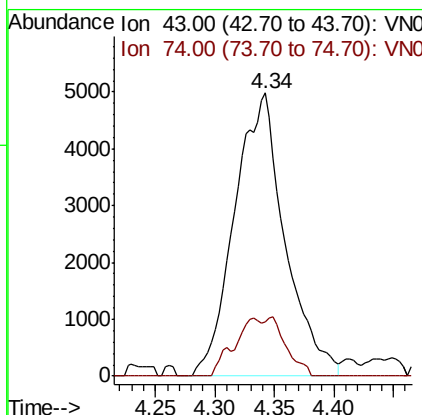
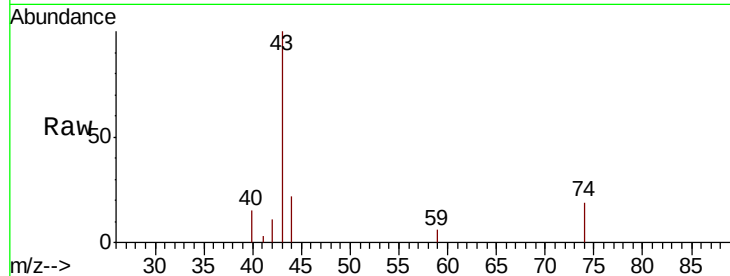




#18
Methyl Acetate
Concen: 2.12 ug/l
RT: 4.34 min Scan# 856
Delta R.T. 0.01 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

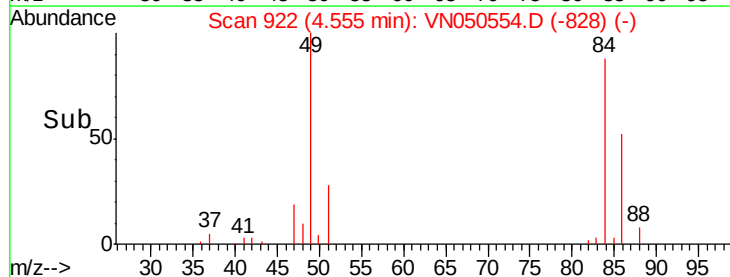
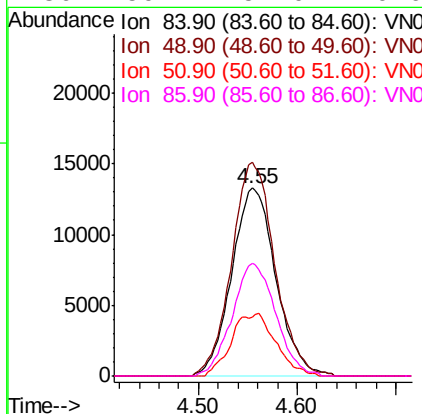
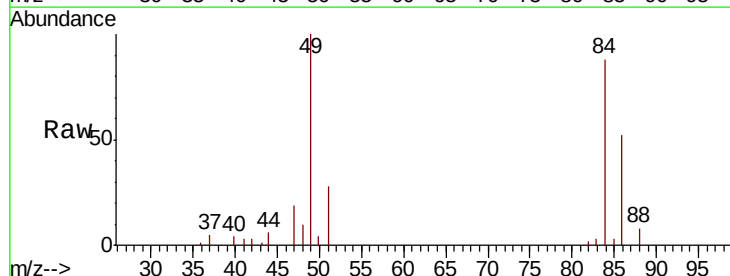
Instrument :
MSVOA_N
ClientSampleId :
SU-02-080918-A

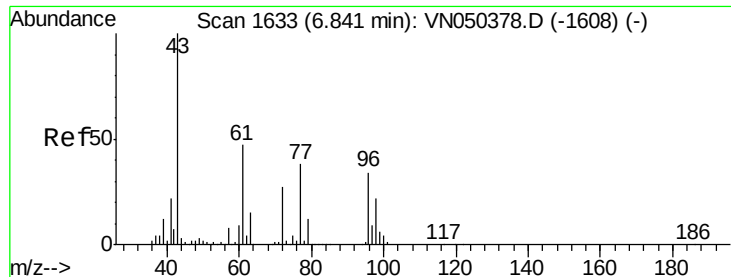
Tot Ion: 43 Resp: 14664
Ion Ratio Lower Upper
43 100
74 4.4 19.2 28.8#



#20
Methylene Chloride
Concen: 4.10 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion: 84 Resp: 41333
Ion Ratio Lower Upper
84 100
49 113.7 94.8 142.2
51 31.3 28.3 42.5
86 59.7 51.0 76.6





#25

2-Butanone

Concen: 0.40 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

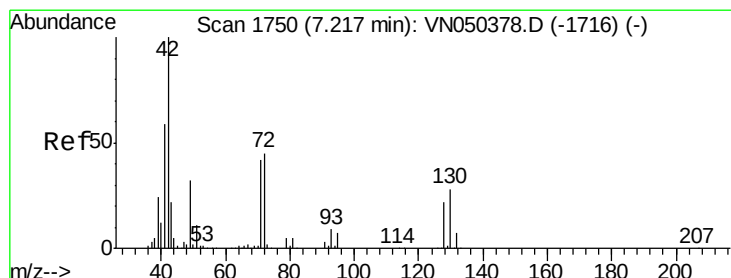
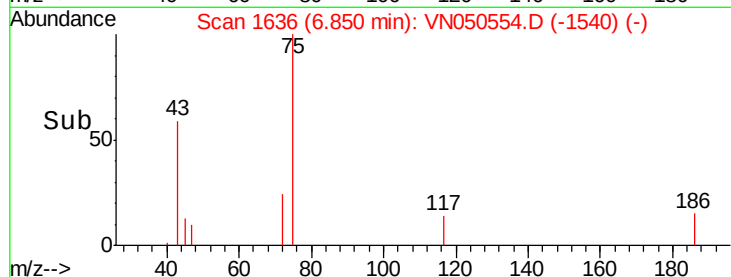
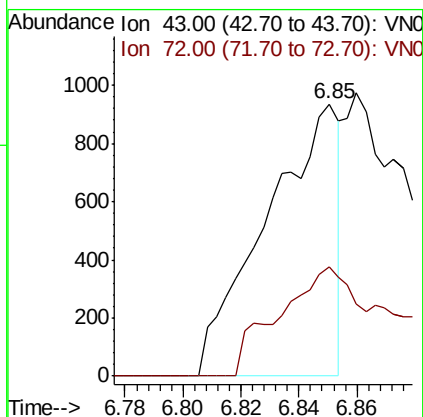
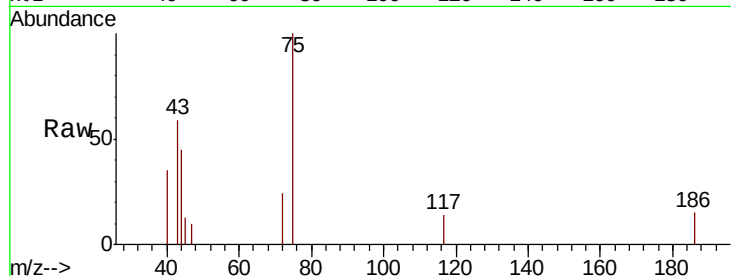
SU-02-080918-A

Tot Ion: 43 Resp: 1636

Ion Ratio Lower Upper

43 100

72 40.2 21.5 32.3#



#29

Tetrahydrofuran

Concen: 0.65 ug/l

RT: 7.23 min Scan# 1753

Delta R.T. 0.01 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

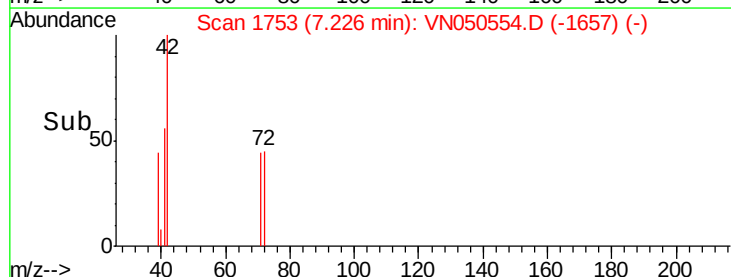
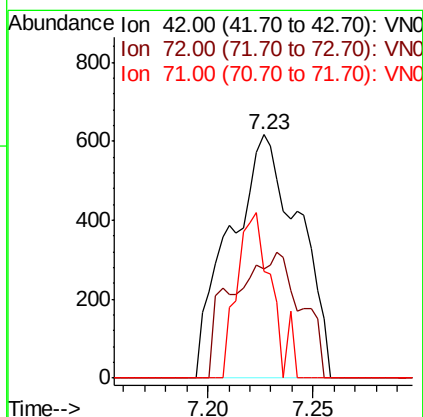
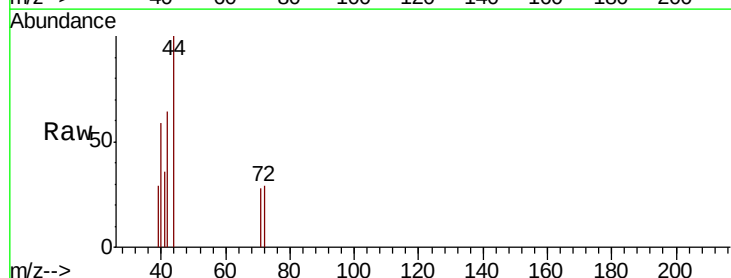
Tgt Ion: 42 Resp: 1404

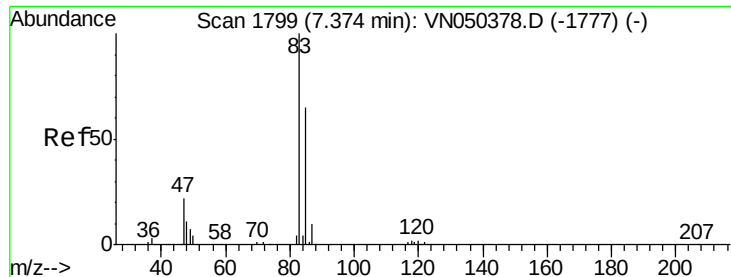
Ion Ratio Lower Upper

42 100

72 39.1 35.9 53.9

71 33.7 33.7 50.5

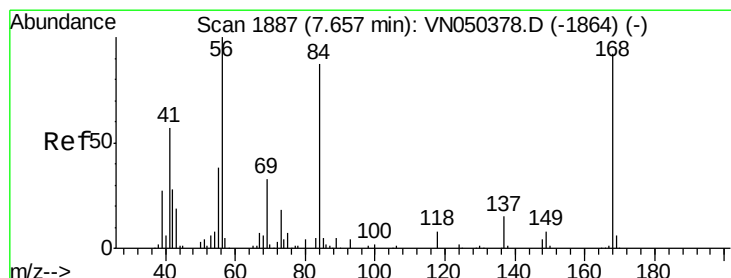
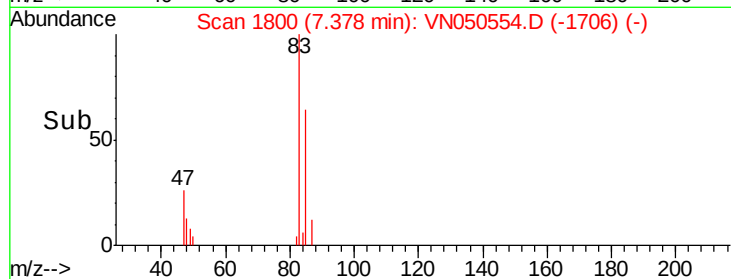
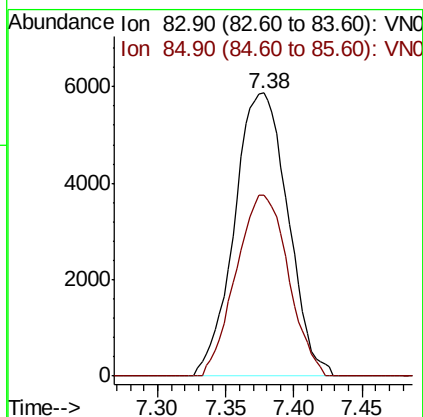
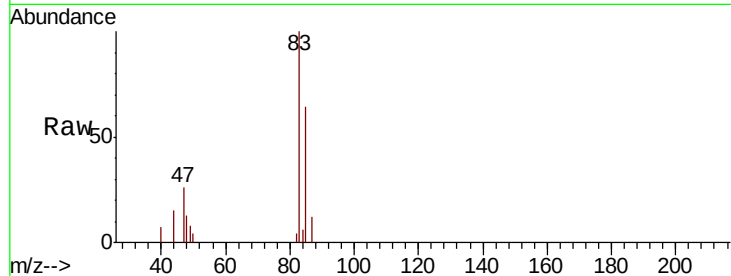




#30
Chloroform
Concen: 1.19 ug/l
RT: 7.38 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

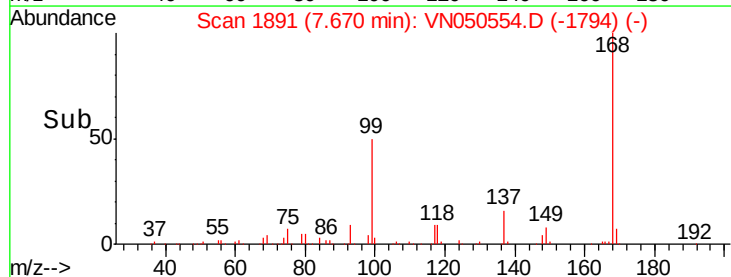
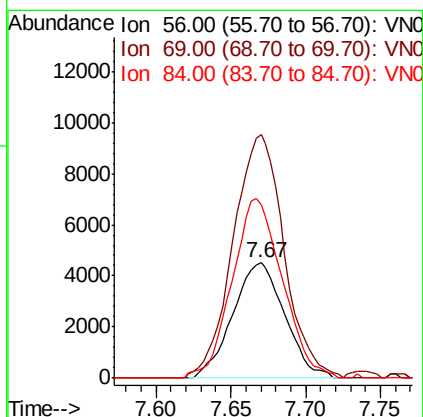
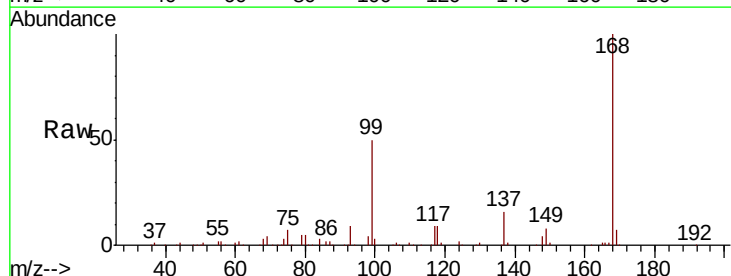
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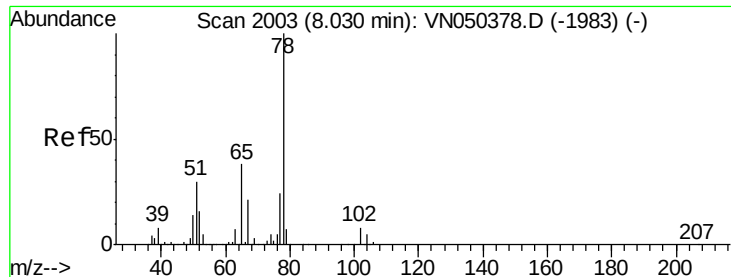
Tot Ion: 83 Resp: 15951
Ion Ratio Lower Upper
83 100
85 64.0 52.5 78.7



#31
Cyclohexane
Concen: 0.30 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.01 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion: 56 Resp: 10926
Ion Ratio Lower Upper
56 100
69 207.7 26.2 39.4#
84 149.9 67.4 101.0#

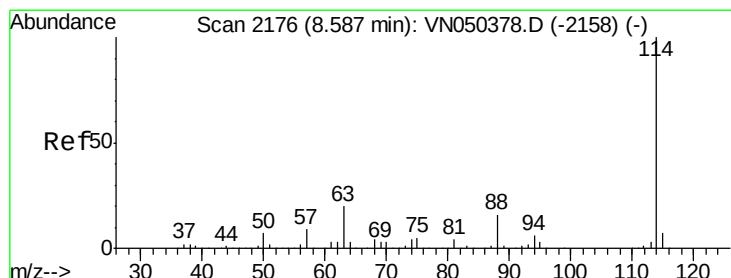
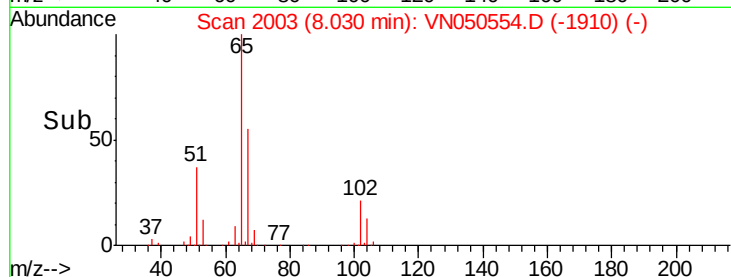
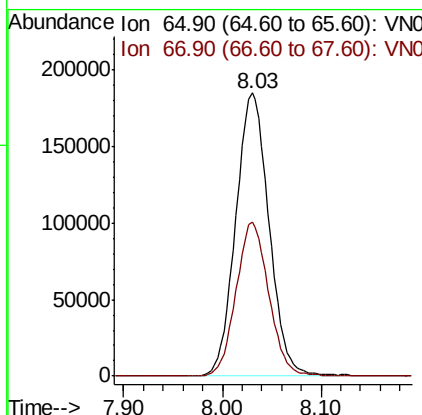
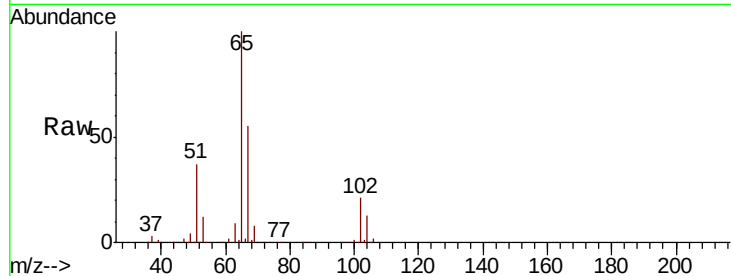




#33
 1,2-Dichloroethane-d4
 Concen: 52.53 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050554.D
 Acq: 11 Aug 2018 7:02

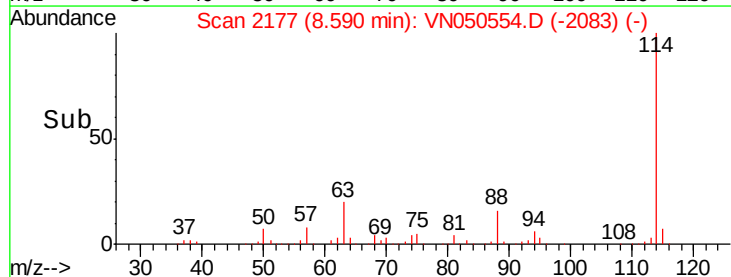
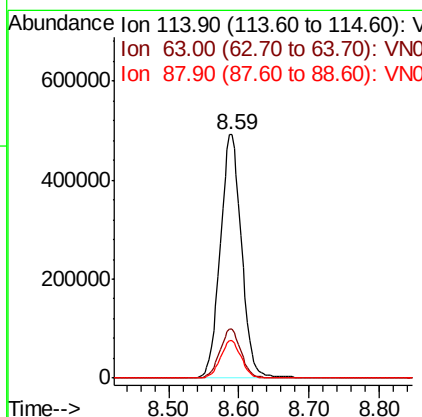
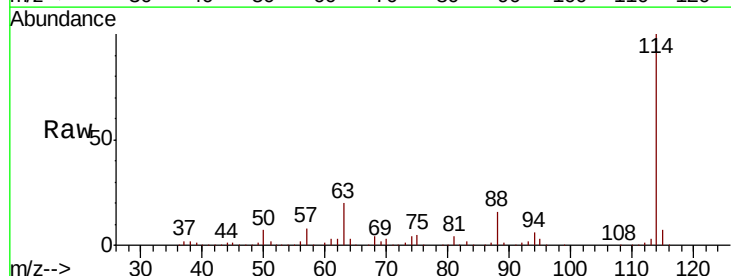
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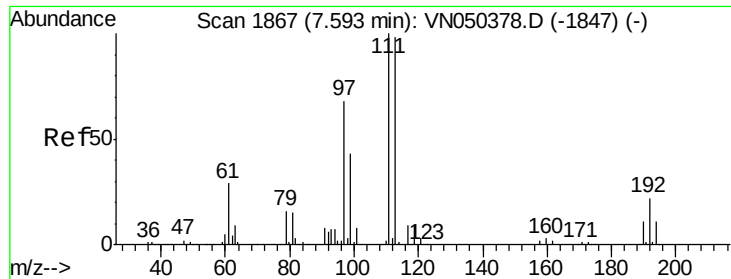
Tot Ion: 65 Resp: 430903
 Ion Ratio Lower Upper
 65 100
 67 53.7 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050554.D
 Acq: 11 Aug 2018 7:02

Tgt Ion: 114 Resp: 1031965
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 40.0
 88 15.5 0.0 31.2

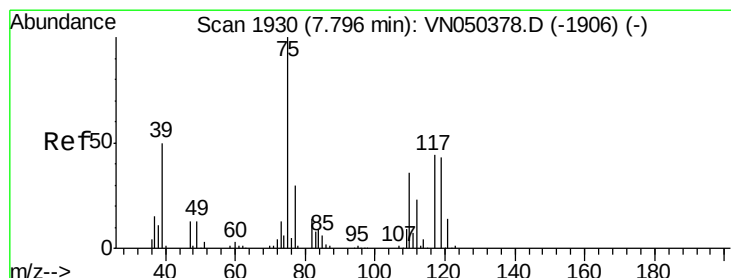
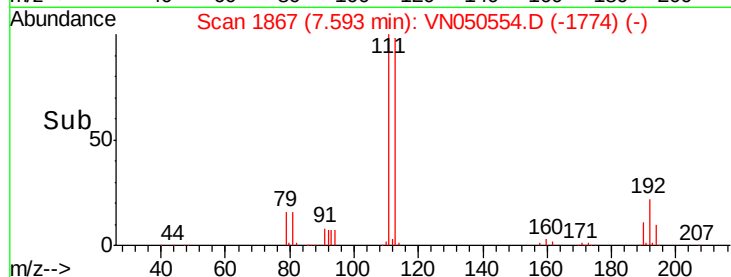
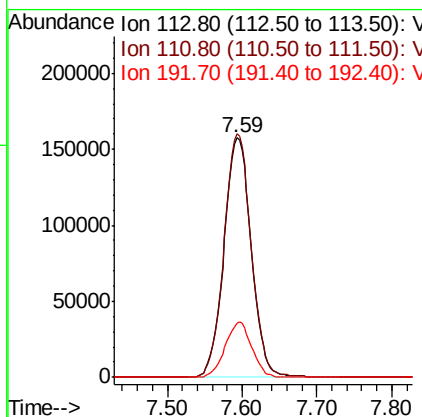
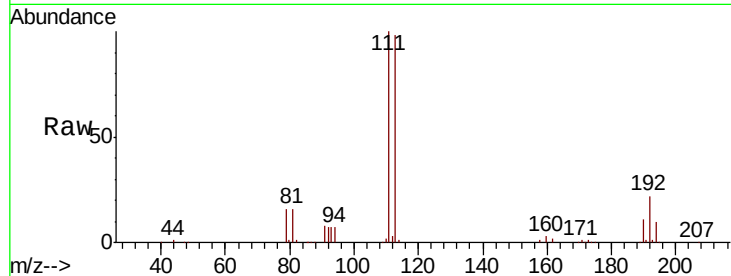




#35
 Dibromofluoromethane
 Concen: 48.08 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050554.D
 Acq: 11 Aug 2018 7:02

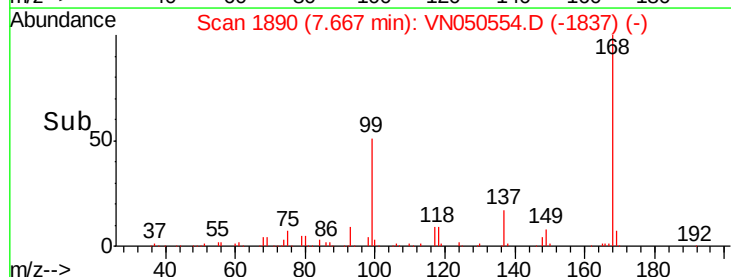
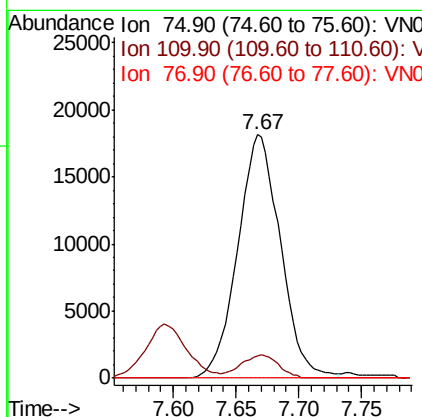
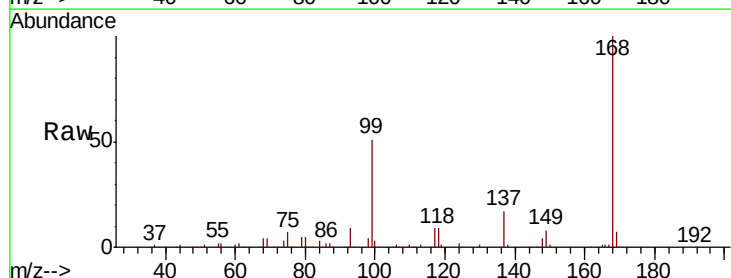
Instrument :
 MSVOA_N
 ClientSampleId :
 SU-02-080918-A

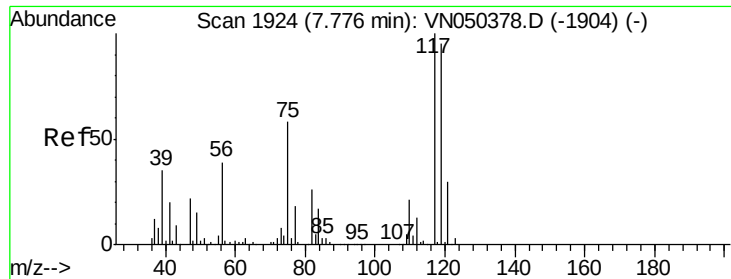
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.1	80.7	121.1
192	22.6	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.79 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050554.D
 Acq: 11 Aug 2018 7:02

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.4	18.4	55.2#
77	0.0	25.3	37.9#

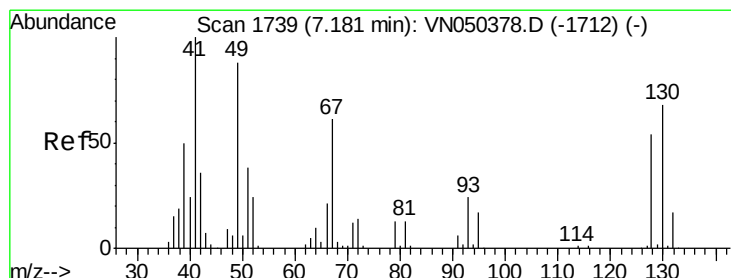
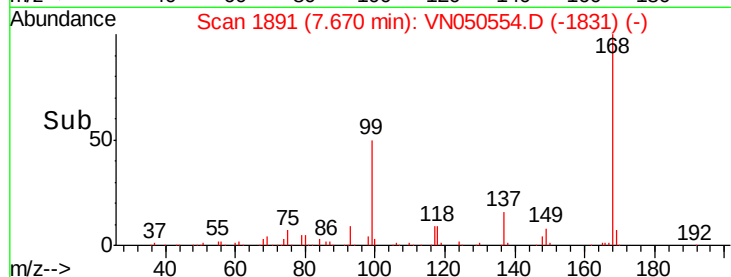
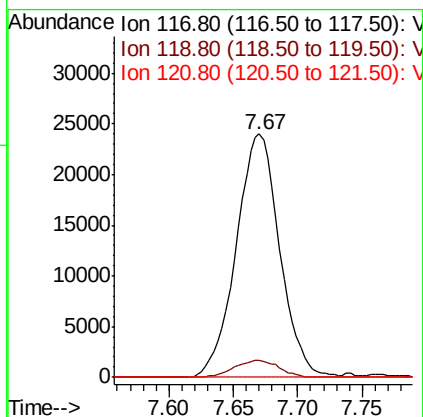
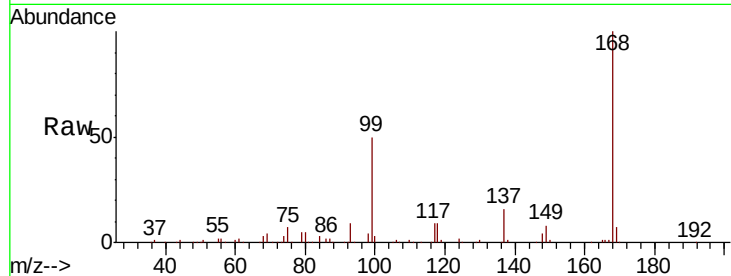




#38
Carbon Tetrachloride
Concen: 4.77 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. -0.11 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

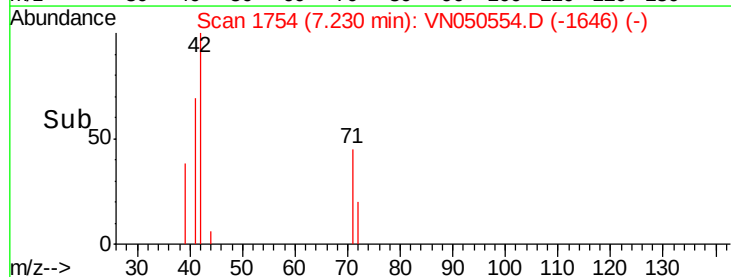
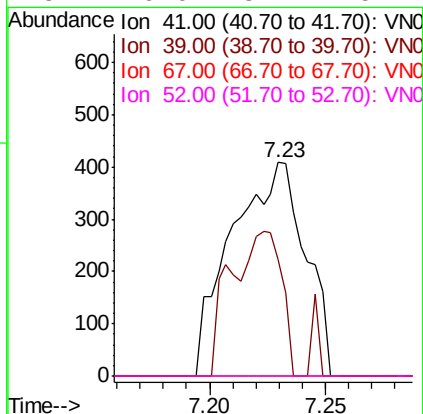
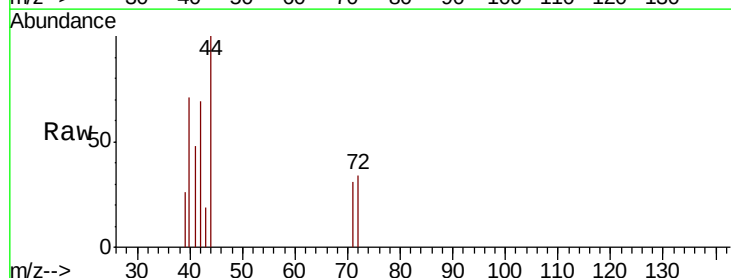
Instrument :
MSVOA_N
ClientSampleId :
SU-02-080918-A

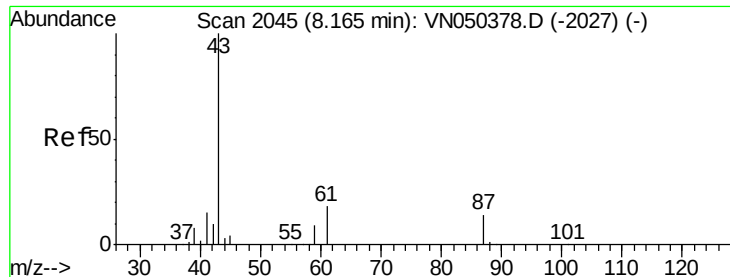
Tot Ion:117 Resp: 56384
Ion Ratio Lower Upper
117 100
119 6.8 77.4 116.0#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 0.21 ug/l
RT: 7.23 min Scan# 1754
Delta R.T. 0.05 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion: 41 Resp: 902
Ion Ratio Lower Upper
41 100
39 30.4 55.8 83.6#
67 0.0 84.3 126.5#
52 0.0 34.2 51.2#





#43

Isopropyl Acetate

Concen: 14.05 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

SU-02-080918-A

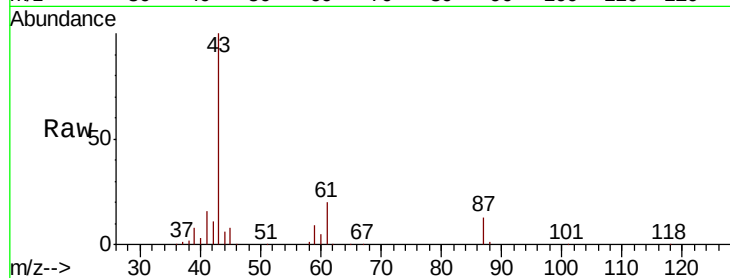
Tot Ion: 43 Resp: 198027

Ion Ratio Lower Upper

43 100

61 17.1 15.8 23.6

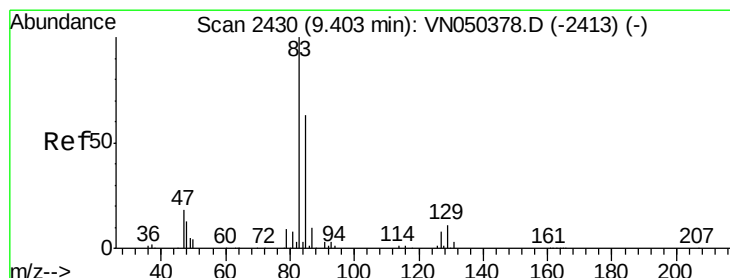
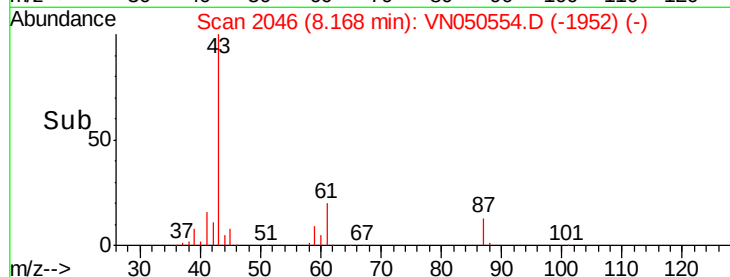
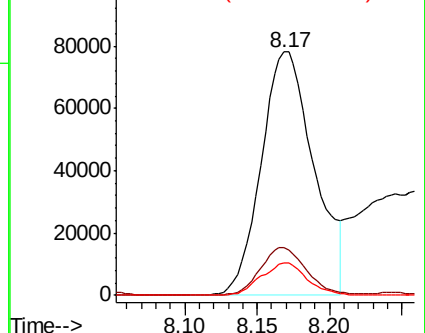
87 11.6 10.3 15.5



Abundance Ion 43.00 (42.70 to 43.70): VN050378.D (-2027) (-)

Ion 61.00 (60.70 to 61.70): VN050378.D (-2027) (-)

Ion 87.00 (86.70 to 87.70): VN050378.D (-2027) (-)



#47

Bromodichloromethane

Concen: 0.32 ug/l

RT: 9.41 min Scan# 2431

Delta R.T. 0.00 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

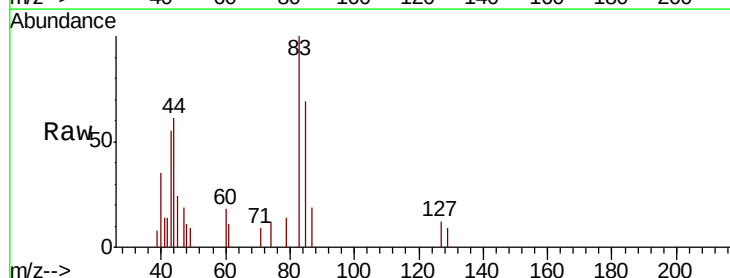
Tgt Ion: 83 Resp: 3739

Ion Ratio Lower Upper

83 100

85 69.0 51.1 76.7

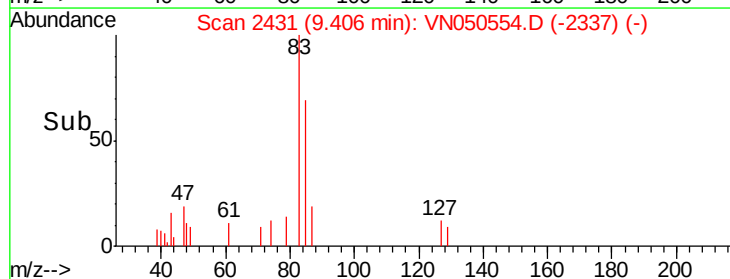
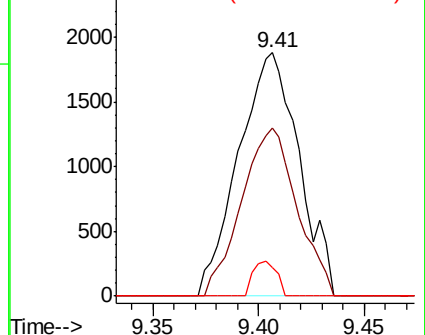
127 12.0 7.0 10.4#

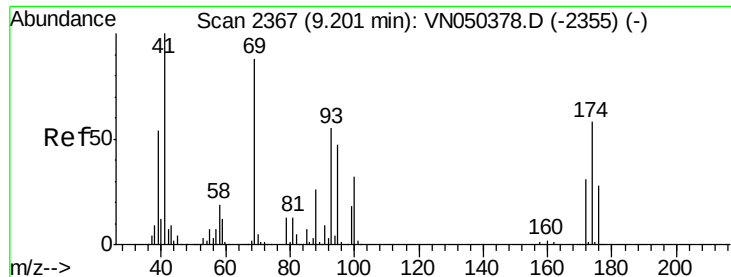


Abundance Ion 82.90 (82.60 to 83.60): VN050378.D (-2413) (-)

Ion 84.90 (84.60 to 85.60): VN050378.D (-2413) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-2413) (-)

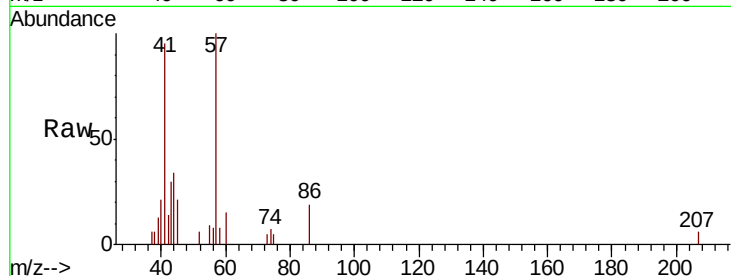




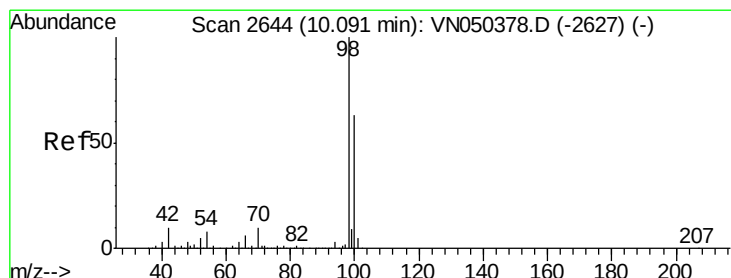
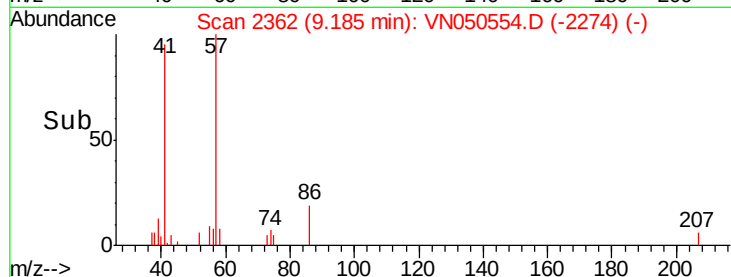
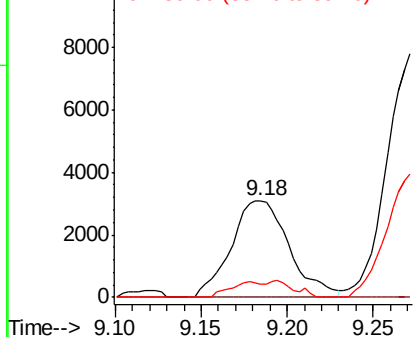
#48
Methvl methacrylate
Concen: 1.03 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Instrument :
MSVOA_N
ClientSampleId :
SU-02-080918-A

Tot Ion: 41 Resp: 7242
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 8.6 43.9 65.9#

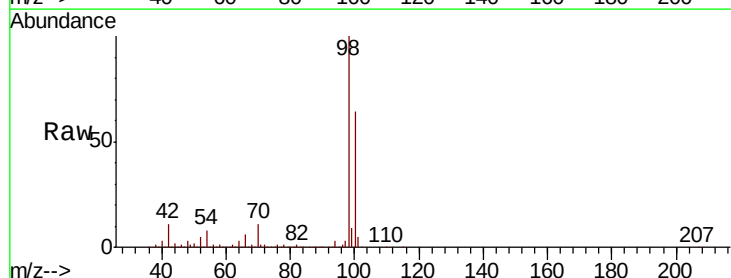


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

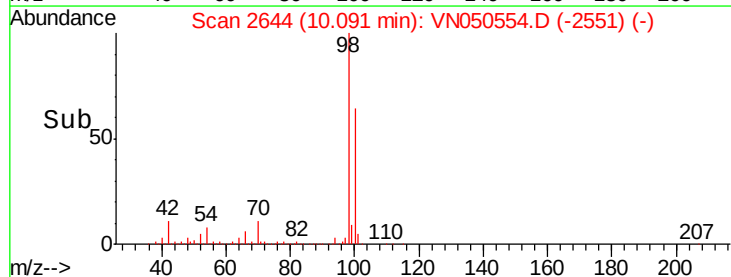
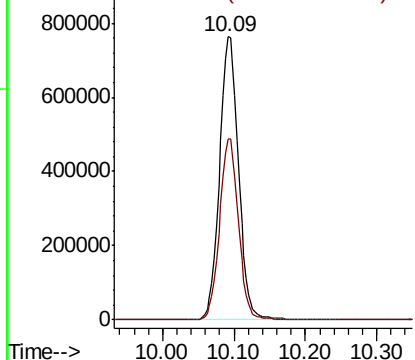


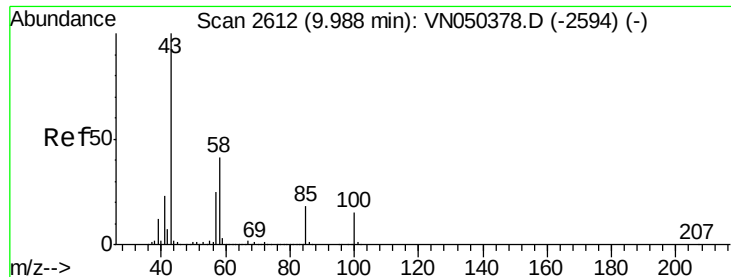
#50
Toluene-d8
Concen: 45.23 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion: 98 Resp: 1408214
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1



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

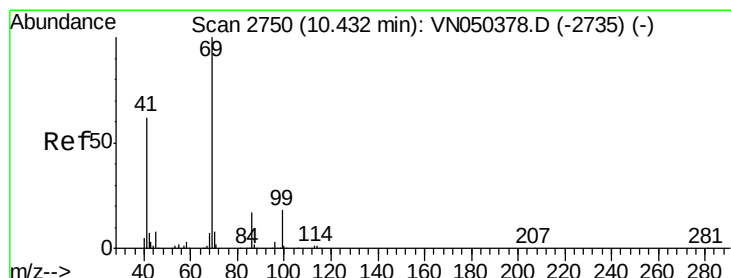
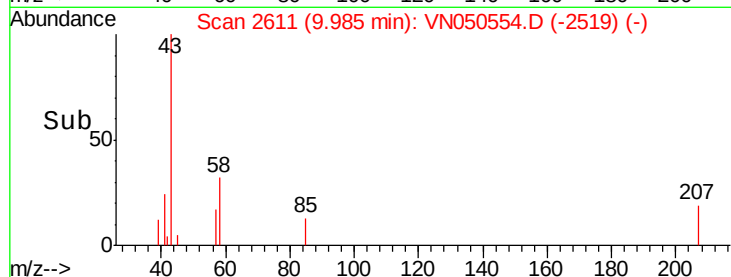
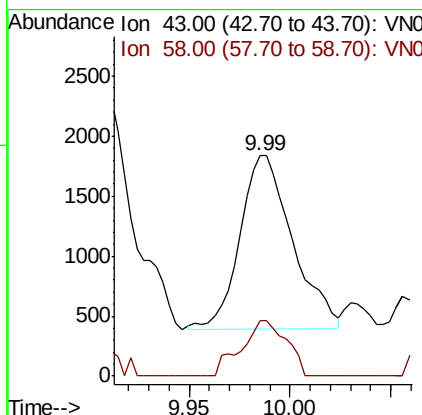
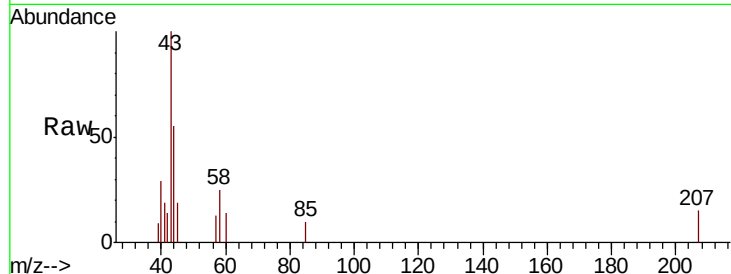




#51
4-Methyl-2-Pentanone
Concen: 0.26 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

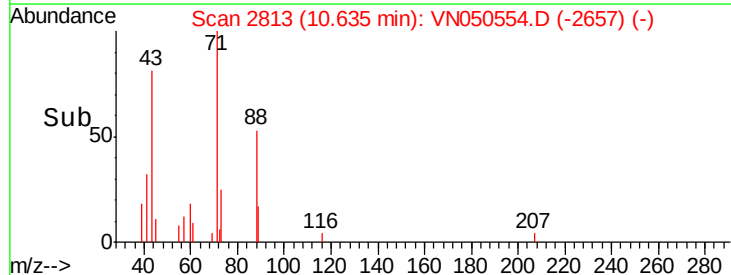
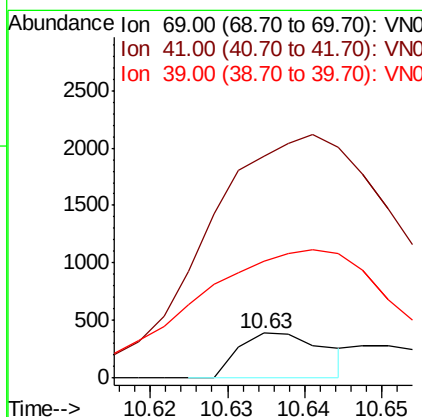
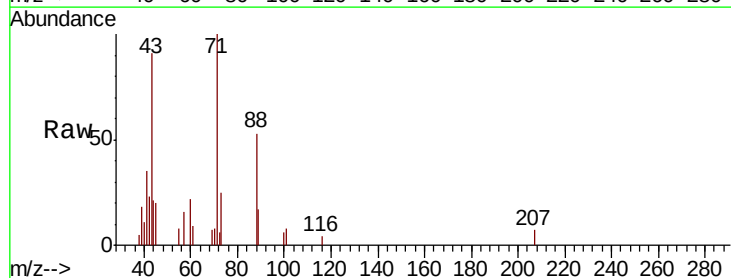
Instrument :
MSVOA_N
ClientSampleId :
SU-02-080918-A

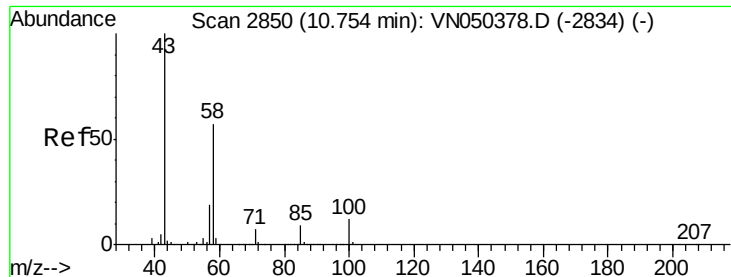
Tot Ion: 43 Resp: 2628
Ion Ratio Lower Upper
43 100
58 27.7 31.9 47.9#



#56
Ethyl methacrylate
Concen: 1.74 ug/l
RT: 10.63 min Scan# 2813
Delta R.T. 0.20 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion: 69 Resp: 306
Ion Ratio Lower Upper
69 100
41 1285.9 51.0 76.4#
39 689.2 26.6 40.0#





#59

2-Hexanone

Concen: 1.87 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

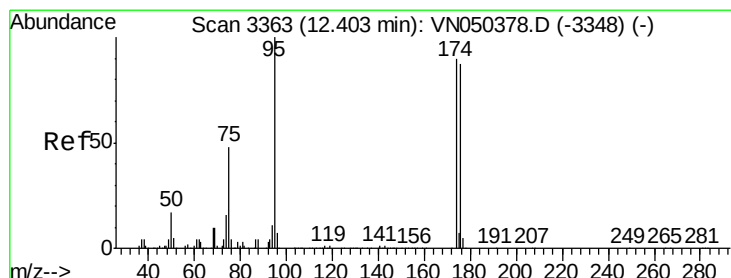
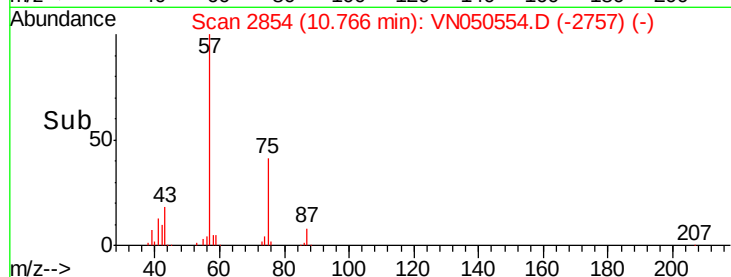
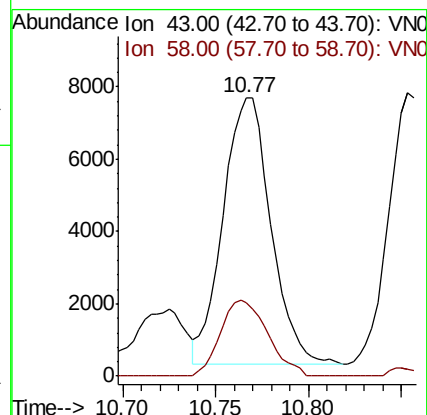
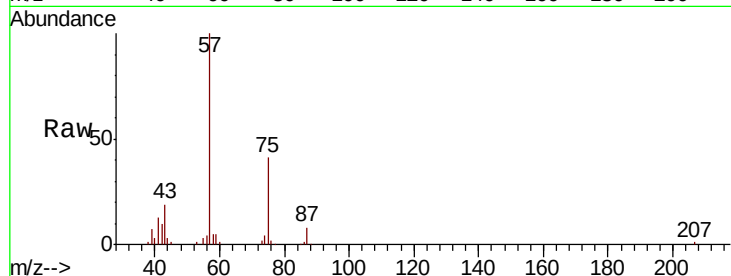
SU-02-080918-A

Tot Ion: 43 Resp: 13254

Ion Ratio Lower Upper

43 100

58 28.0 27.6 82.7



#62

4-Bromofluorobenzene

Concen: 38.10 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

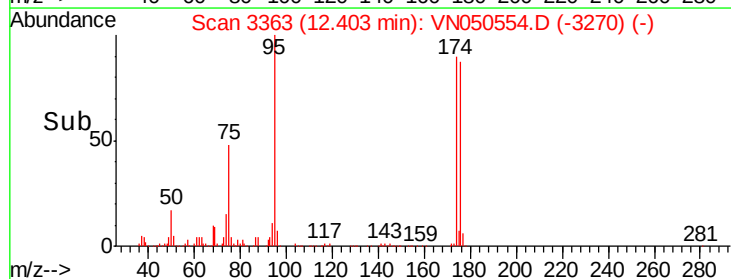
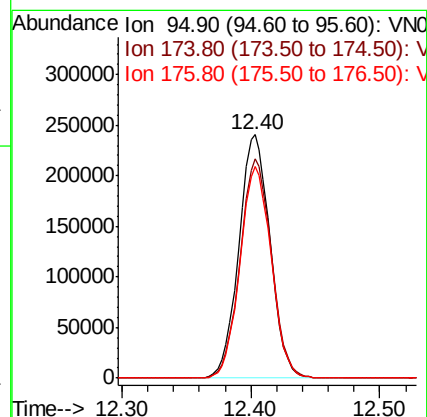
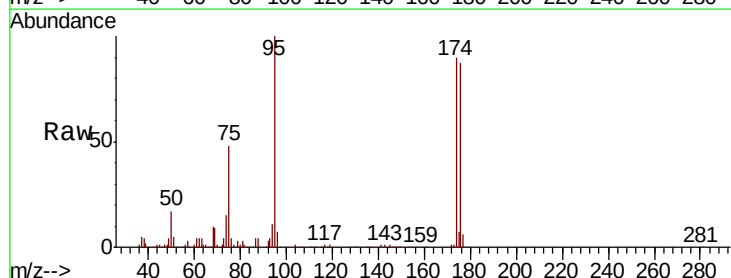
Tgt Ion: 95 Resp: 404239

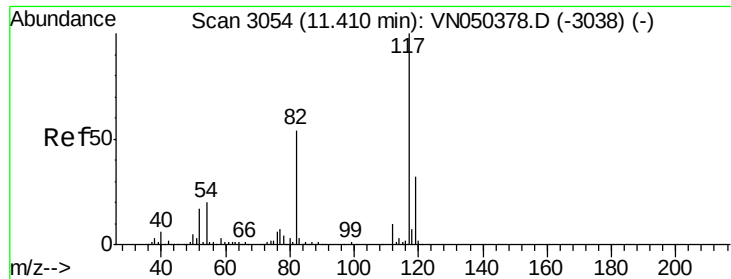
Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.2

176 87.0 0.0 173.4

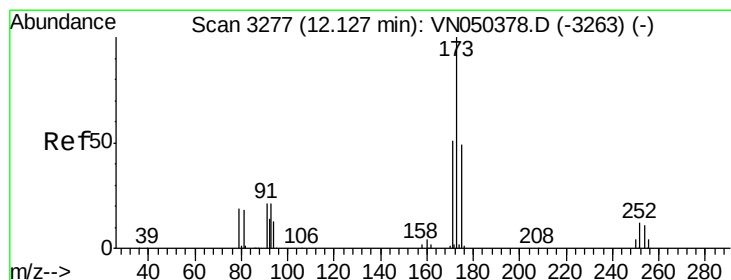
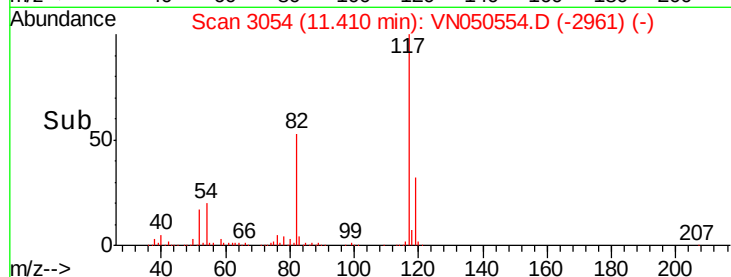
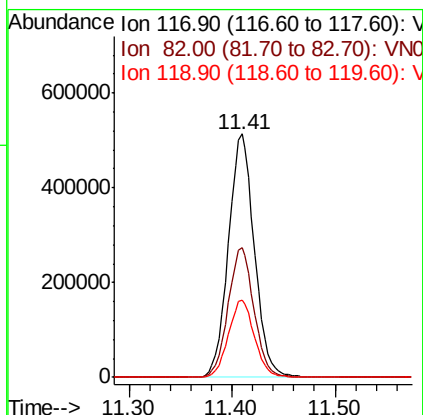
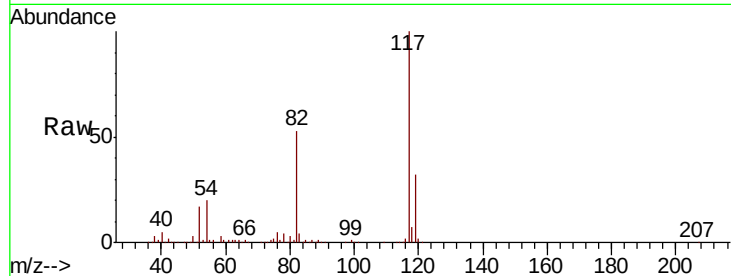




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

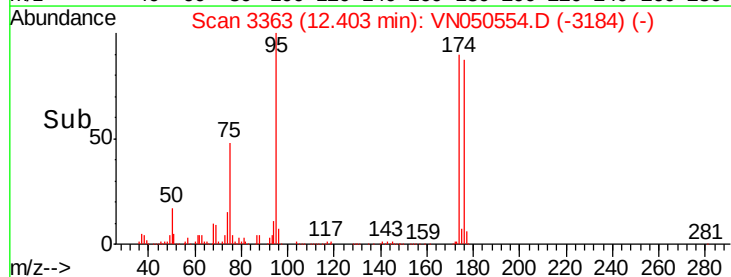
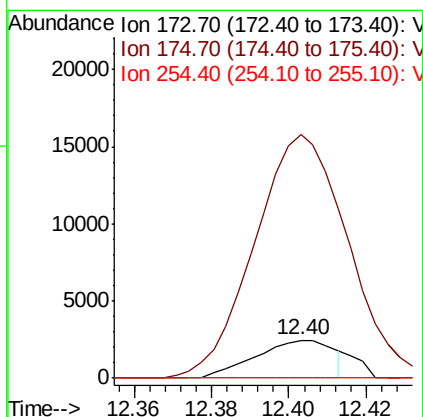
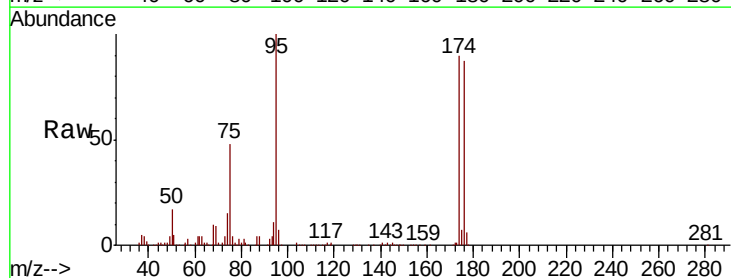
Instrument :
MSVOA_N
ClientSampleId :
SU-02-080918-A

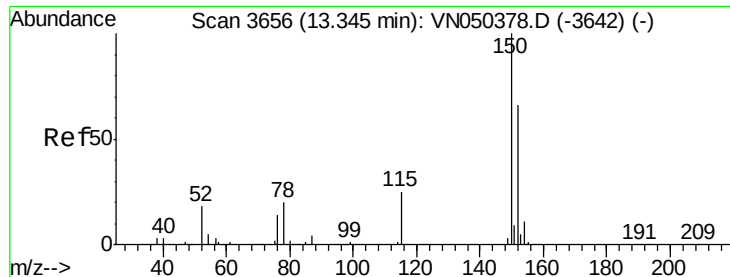
Tot Ion:117 Resp: 898413
Ion Ratio Lower Upper
117 100
82 53.4 43.7 65.5
119 31.9 26.1 39.1



#71
Bromoform
Concen: 0.57 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN050554.D
Acq: 11 Aug 2018 7:02

Tgt Ion:173 Resp: 3424
Ion Ratio Lower Upper
173 100
175 647.3 24.1 72.2#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. -0.00 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

SU-02-080918-A

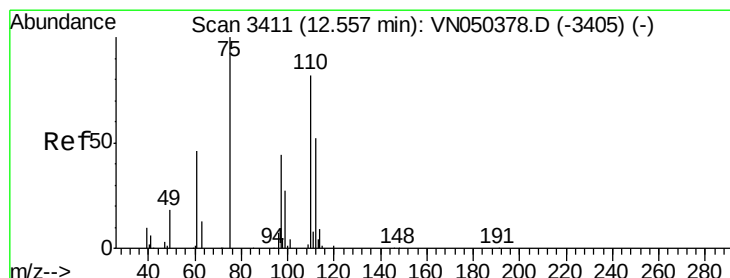
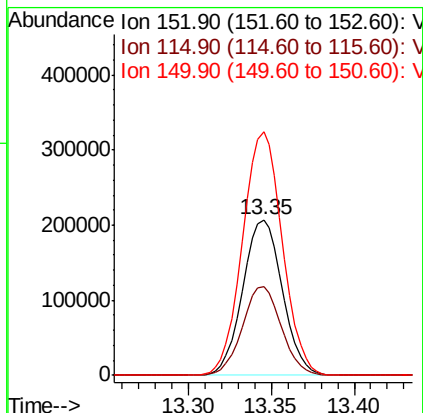
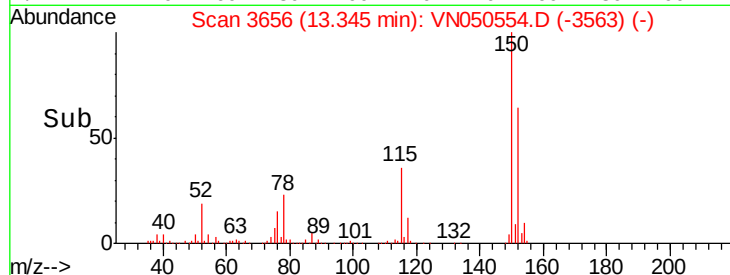
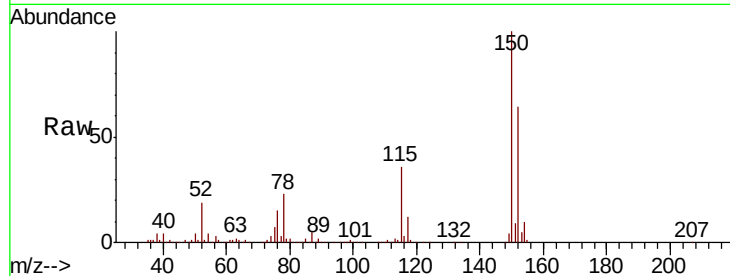
Tot Ion:152 Resp: 344824

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.3

150 157.2 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 31.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050554.D

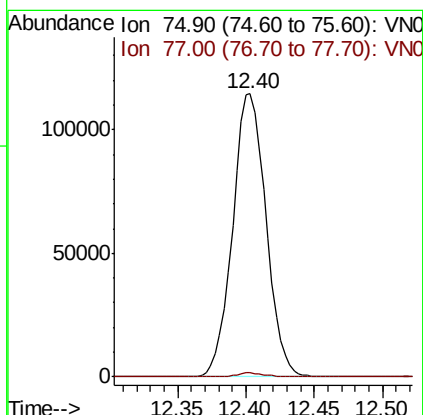
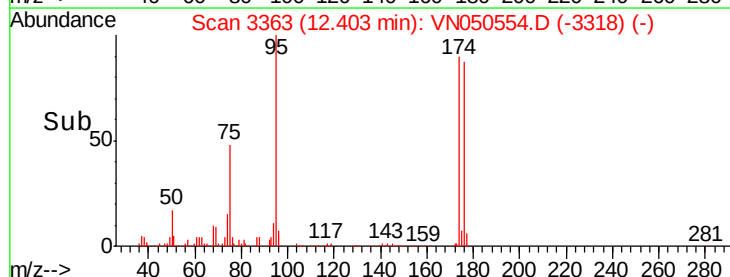
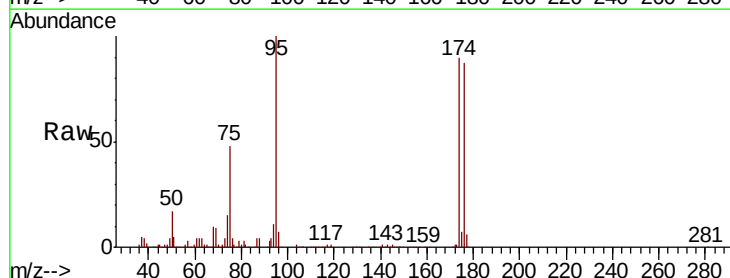
Acq: 11 Aug 2018 7:02

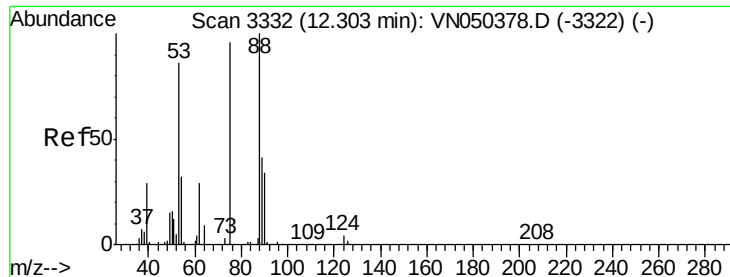
Tgt Ion: 75 Resp: 194682

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 109.59 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

Instrument :

MSVOA_N

ClientSampleId :

SU-02-080918-A

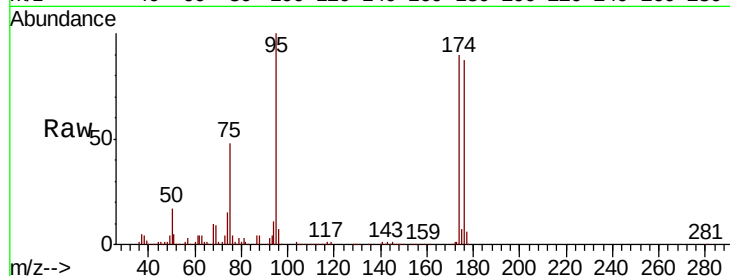
Tot Ion: 75 Resp: 194682

Ion Ratio Lower Upper

75 100

53 0.2 73.5 110.3#

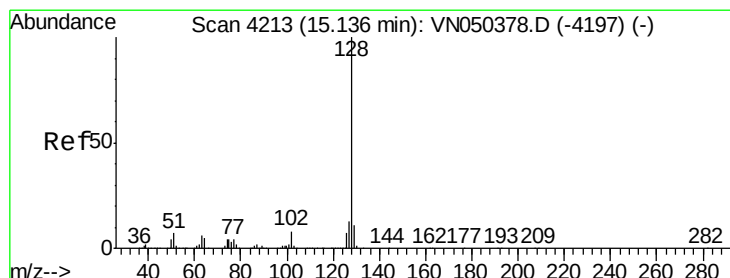
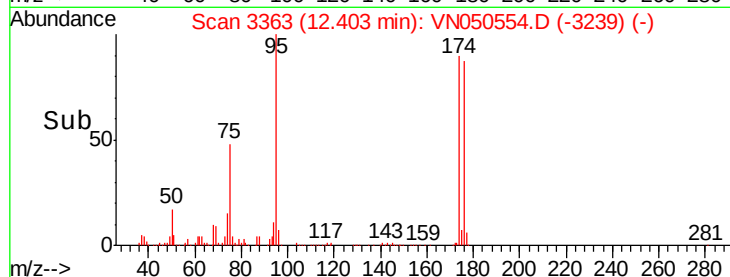
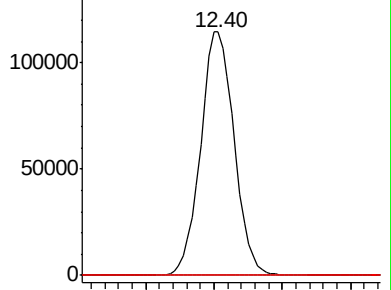
89 0.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050378.D (-3322) (-)

Ion 53.00 (52.70 to 53.70): VN050378.D (-3322) (-)

Ion 88.90 (88.60 to 89.60): VN050378.D (-3322) (-)



#95

Naphthalene

Concen: 4.20 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN050554.D

Acq: 11 Aug 2018 7:02

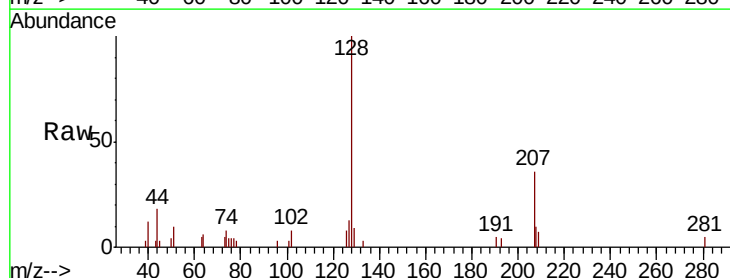
Tgt Ion: 128 Resp: 10466

Ion Ratio Lower Upper

128 100

127 12.9 10.4 15.6

129 10.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VN050378.D (-4197) (-)

Ion 127.00 (126.70 to 127.70): VN050378.D (-4197) (-)

Ion 129.00 (128.70 to 129.70): VN050378.D (-4197) (-)

