

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN122018\
 Data File : VN053066.D
 Acq On : 20 Dec 2018 19:28
 Operator : MD\SY
 Sample : J6482-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 21 02:27:59 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1251169	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1911137	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1725287	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	718589	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	605203	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
35) Dibromofluoromethane	7.59	113	500553	57.34	ug/l	0.00
Spiked Amount			Recovery	=	114.68%	
50) Toluene-d8	10.09	98	2368122	50.53	ug/l	0.00
Spiked Amount			Recovery	=	101.06%	
62) 4-Bromofluorobenzene	12.40	95	789146	47.96	ug/l	0.00
Spiked Amount			Recovery	=	95.92%	

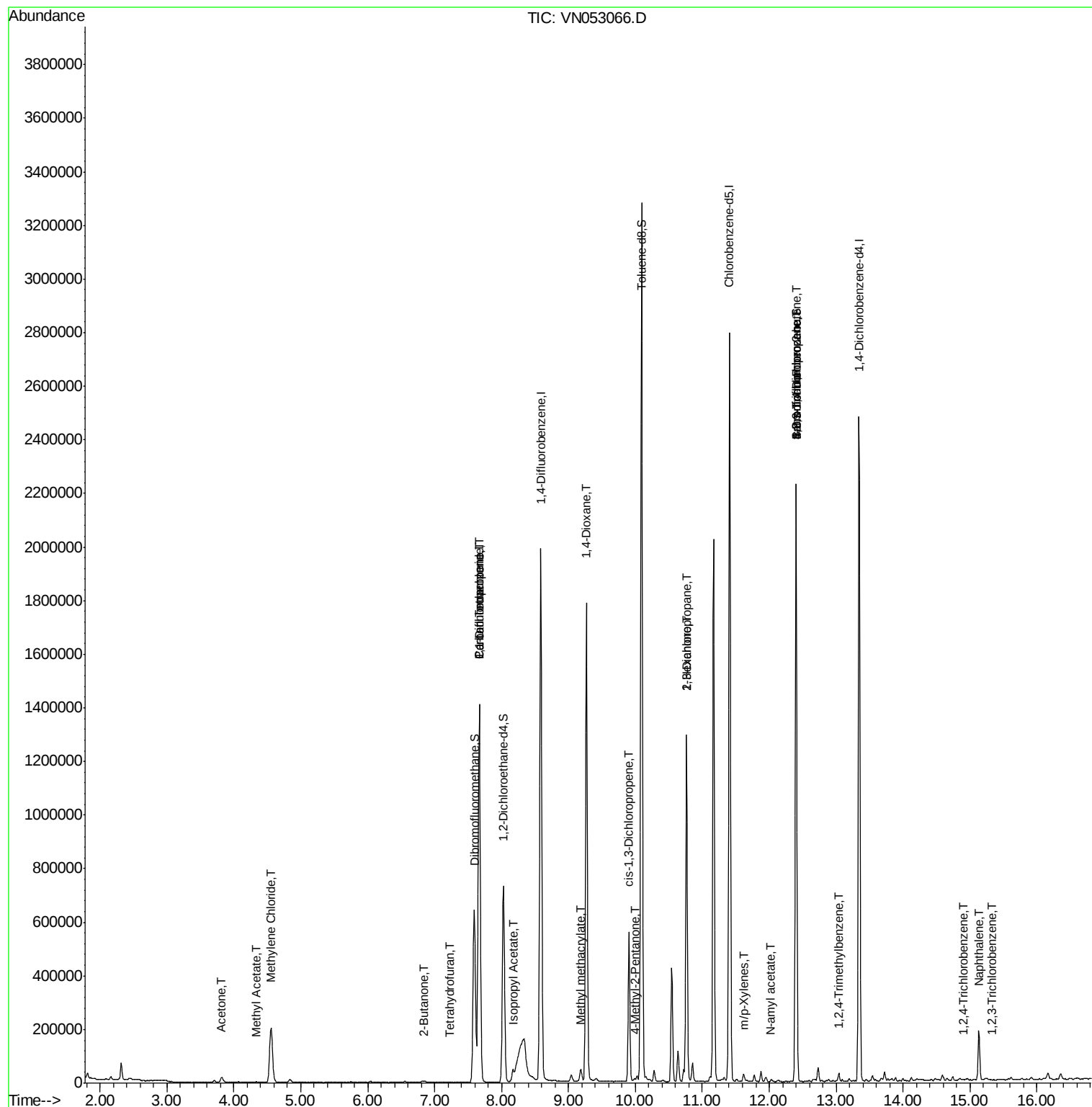
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	33740	13.553	ug/l	98
18) Methyl Acetate	4.33	43	7140	1.611	ug/l #	72
20) Methylene Chloride	4.56	84	162681	11.980	ug/l	95
25) 2-Butanone	6.84	43	8053	1.927	ug/l #	89
29) Tetrahydrofuran	7.22	42	2131	0.683	ug/l #	67
31) Cyclohexane	7.67	56	20367	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	81326	4.433	ug/l #	49
38) Carbon Tetrachloride	7.67	117	108405	6.447	ug/l #	16
43) Isopropyl Acetate	8.17	43	52833	1.656	ug/l #	82
48) Methyl methacrylate	9.18	41	16217	1.632	ug/l #	24
49) 1,4-Dioxane	9.27	88	151	1.201	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	7344	0.741	ug/l	97
54) cis-1,3-Dichloropropene	9.90	75	110126	5.184	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	13750	0.680	ug/l #	42
59) 2-Hexanone	10.76	43	187493	27.944	ug/l #	52
68) m/p-Xylenes	11.62	106	8961	0.358	ug/l	96
71) Bromoform	12.40	173	4548	0.473	ug/l #	1
74) N-amyl acetate	12.03	43	5761	0.369	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	362394	29.958	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	362394	96.558	ug/l #	12
84) 1,2,4-Trimethylbenzene	13.04	105	18770	0.407	ug/l	96
93) 1,2,4-Trichlorobenzene	14.90	180	533	0.637	ug/l #	28
95) Naphthalene	15.13	128	159981	6.679	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	101	0.517	ug/l #	1

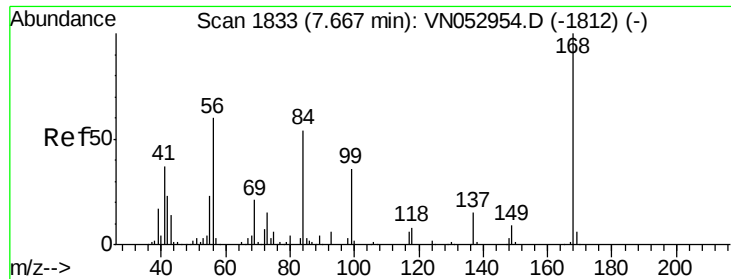
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

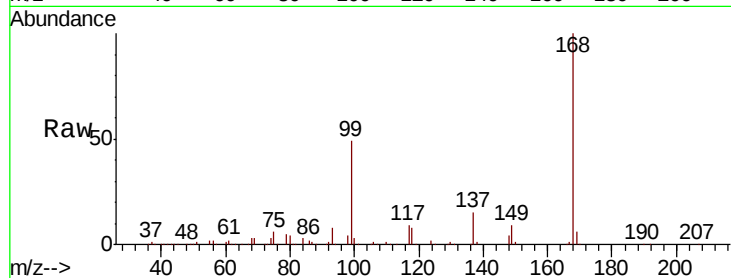
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1251169

Ion Ratio Lower Upper

168 100

99 49.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

600000

500000

400000

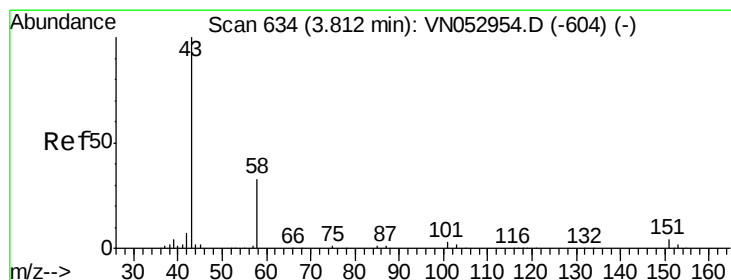
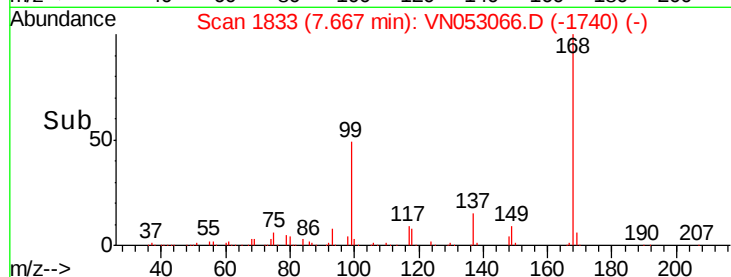
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 13.553 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.01 min

Lab File: VN053066.D

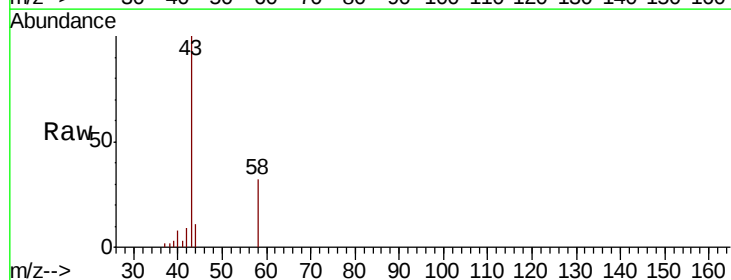
Acq: 20 Dec 2018 19:28

Tgt Ion: 43 Resp: 33740

Ion Ratio Lower Upper

43 100

58 32.9 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

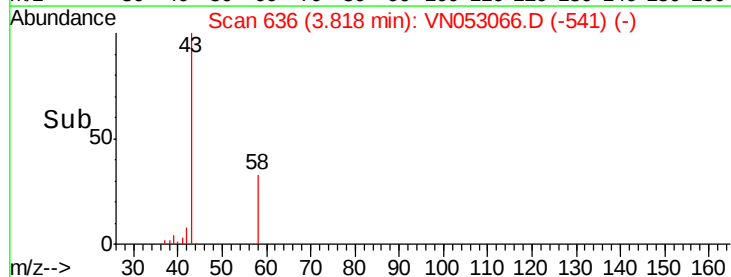
15000

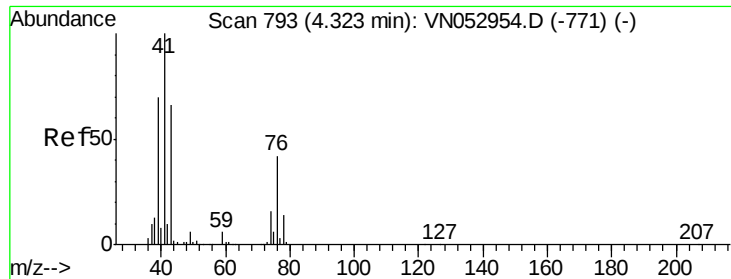
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5000

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Time-->

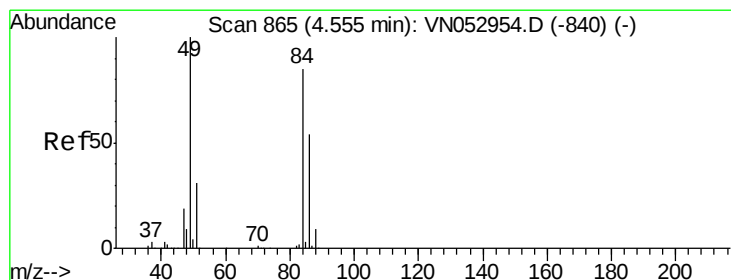
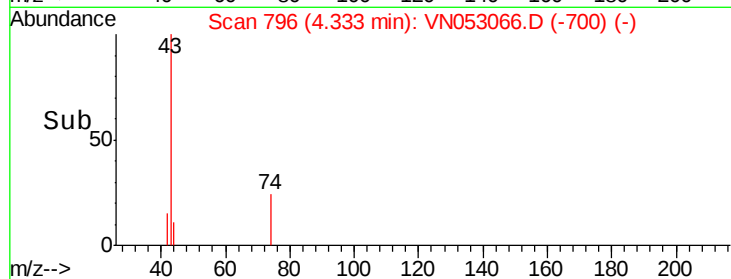
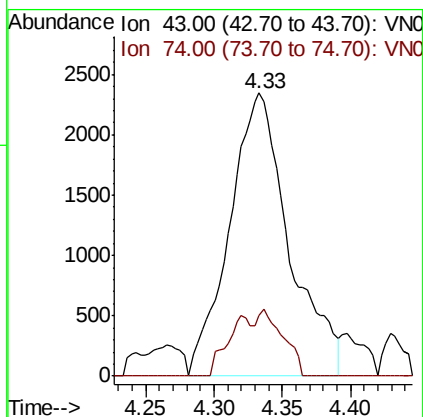
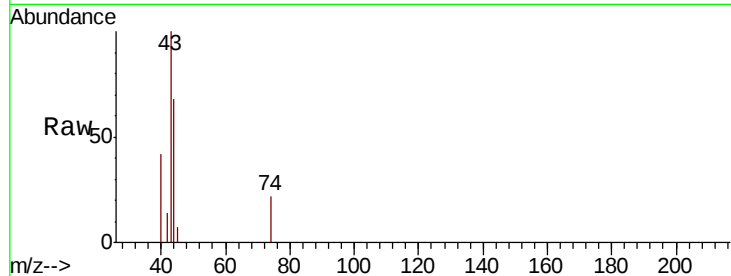




#18
Methyl Acetate
Concen: 1.611 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

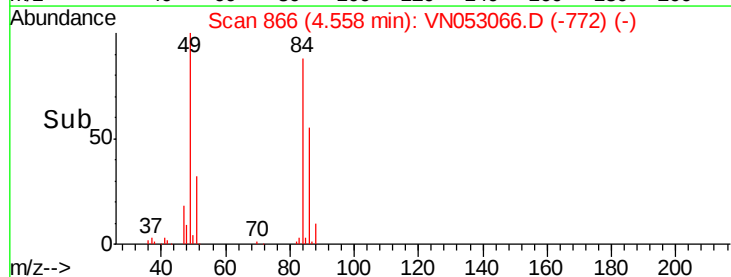
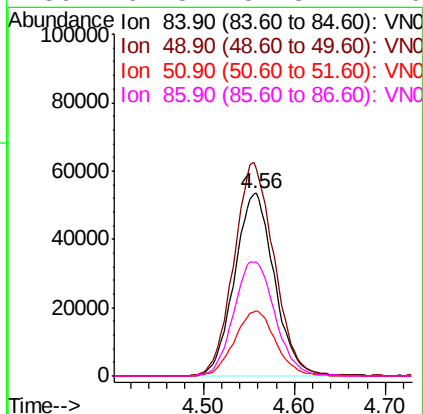
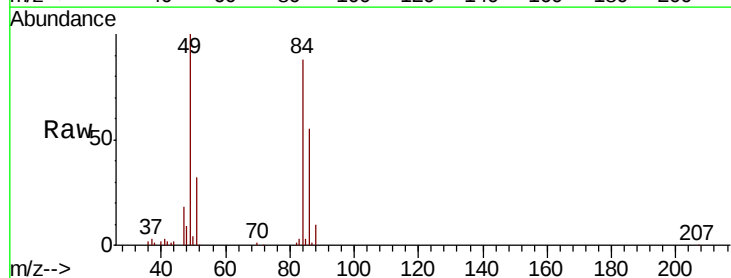
Instrument :
MSVOA_N
ClientSampled :

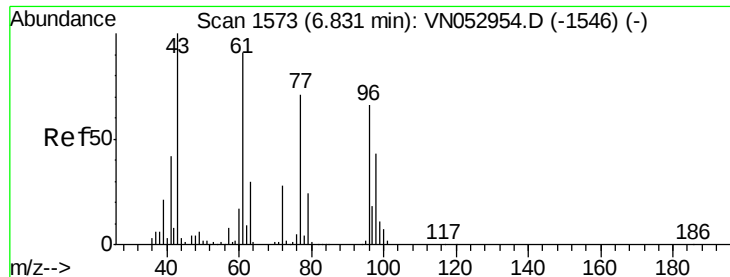
Tot Ion: 43 Resp: 7140
Ion Ratio Lower Upper
43 100
74 10.0 19.2 28.8#



#20
Methylene Chloride
Concen: 11.980 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

Tgt Ion: 84 Resp: 162681
Ion Ratio Lower Upper
84 100
49 112.9 96.8 145.2
51 35.8 29.9 44.9
86 62.3 51.8 77.6





#25

2-Butanone

Concen: 1.927 ug/l

RT: 6.84 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

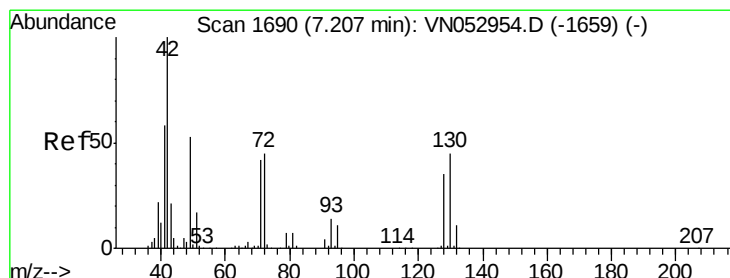
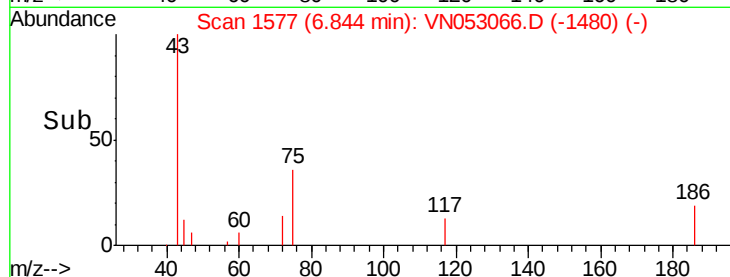
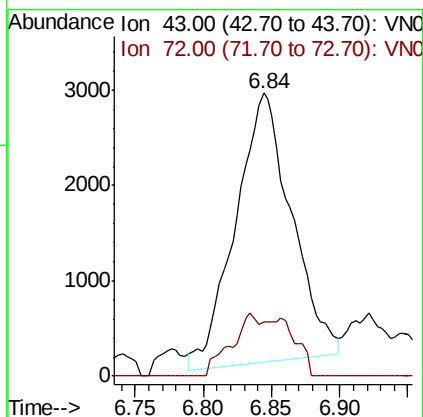
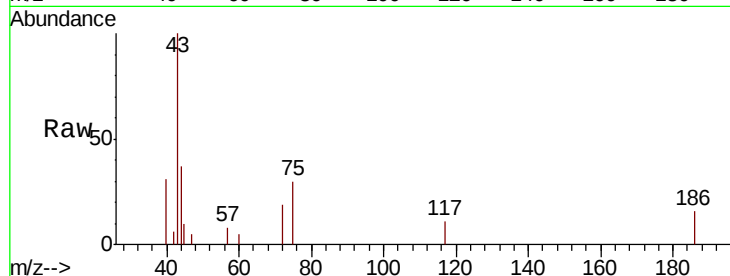
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 8053

Ion Ratio Lower Upper

43 100

72 20.7 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.683 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

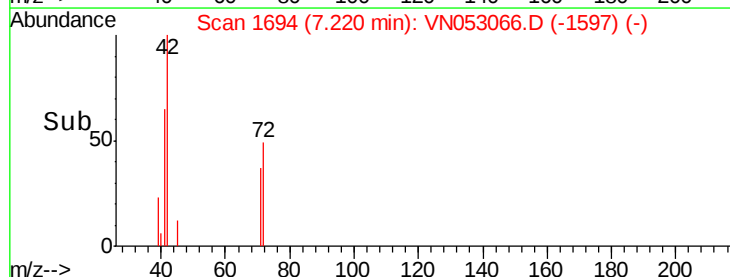
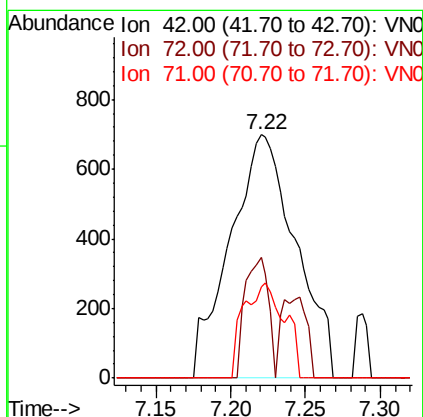
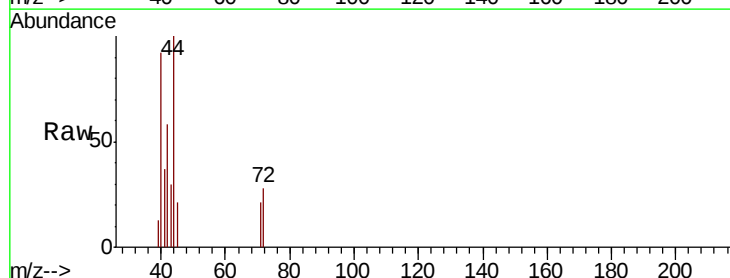
Tgt Ion: 42 Resp: 2131

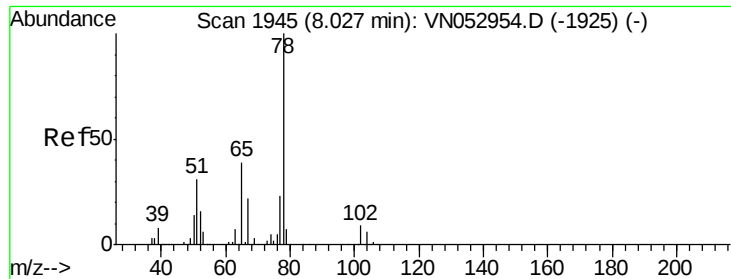
Ion Ratio Lower Upper

42 100

72 17.7 34.7 52.1#

71 24.3 32.3 48.5#

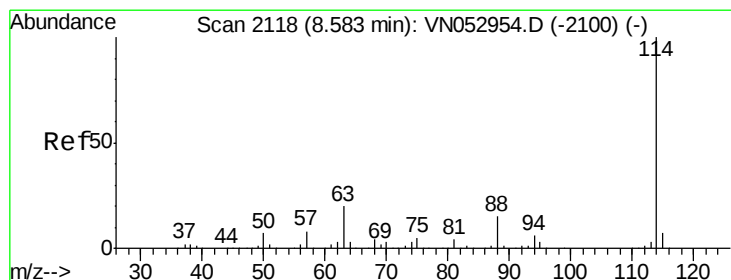
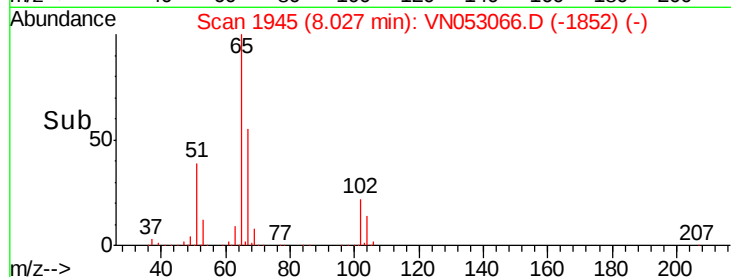
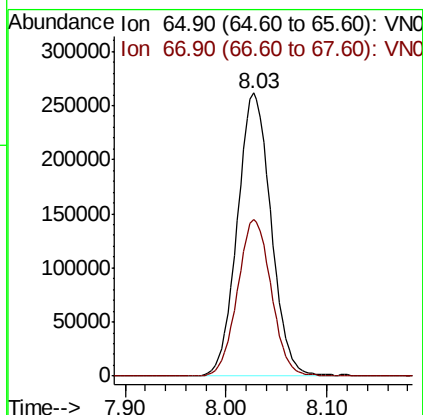
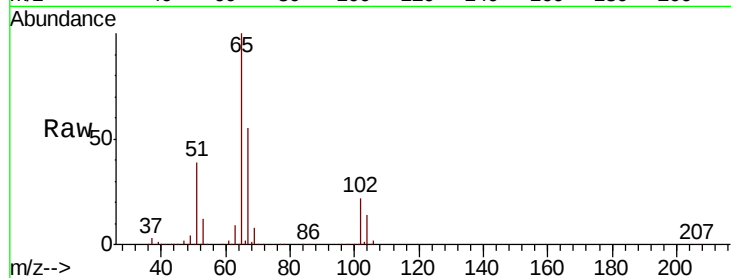




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053066.D
 Acq: 20 Dec 2018 19:28

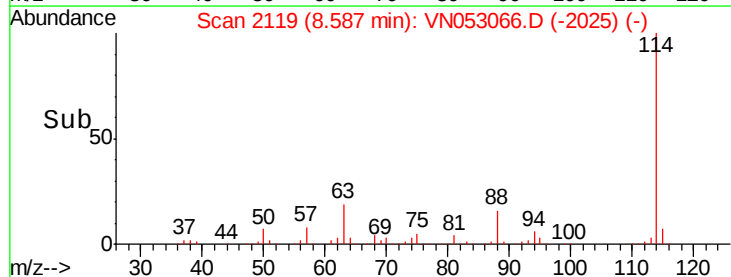
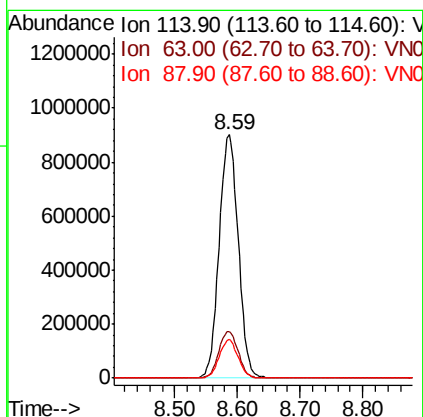
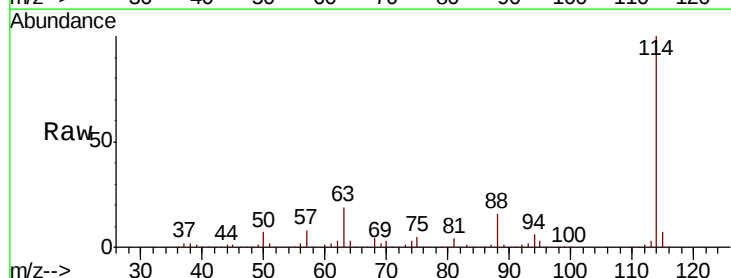
Instrument :
 MSVOA_N
 ClientSampleId :

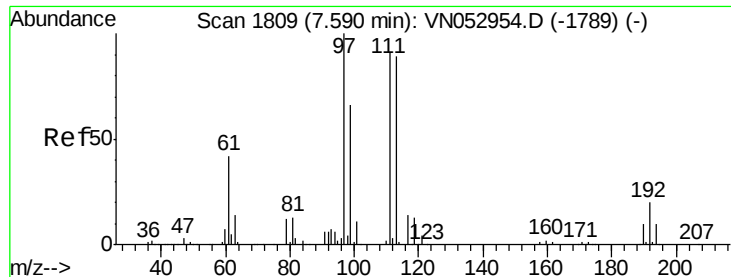
Tot Ion: 65 Resp: 605203
 Ion Ratio Lower Upper
 65 100
 67 55.6 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053066.D
 Acq: 20 Dec 2018 19:28

Tgt Ion: 114 Resp: 1911137
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 39.8
 88 15.7 0.0 31.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :
MSVOA_N
ClientSampleId :

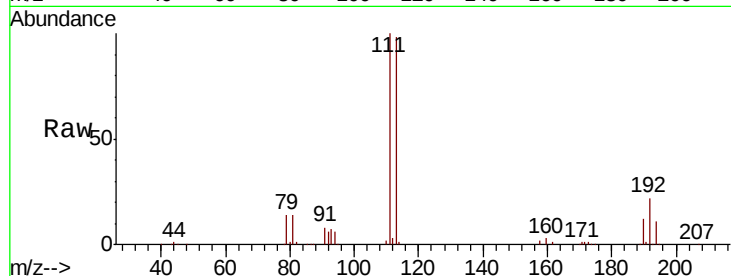
Tot Ion:113 Resp: 500553

Ion Ratio Lower Upper

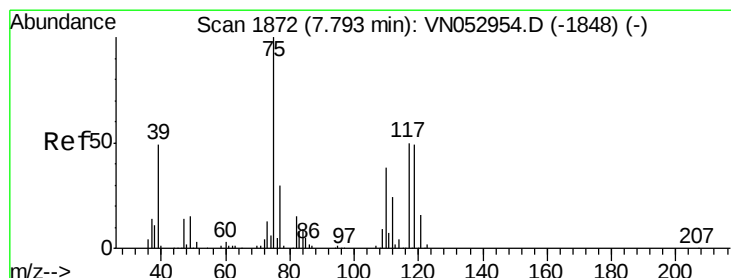
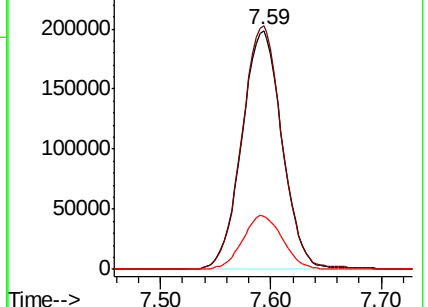
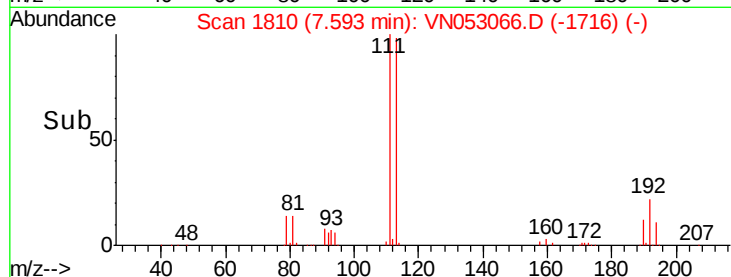
113 100

111 102.4 83.0 124.4

192 22.4 17.5 26.3



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



#36

1,1-Dichloropropene

Concen: 4.433 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

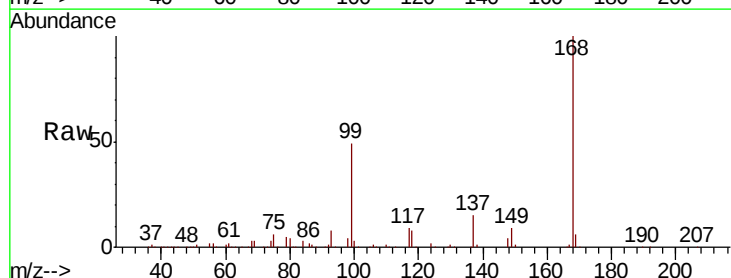
Tgt Ion: 75 Resp: 81326

Ion Ratio Lower Upper

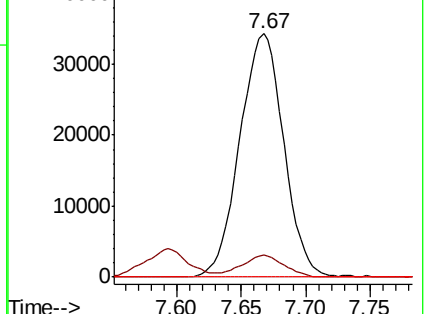
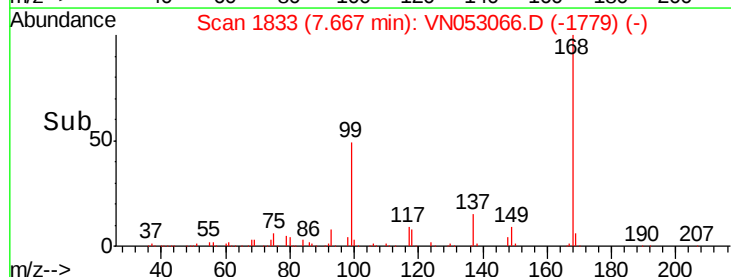
75 100

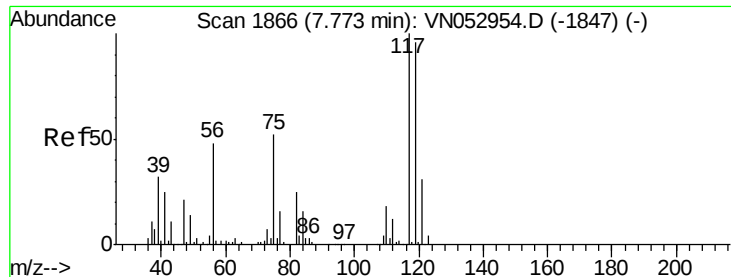
110 8.6 18.2 54.6#

77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 6.447 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :

MSVOA_N

ClientSampleId :

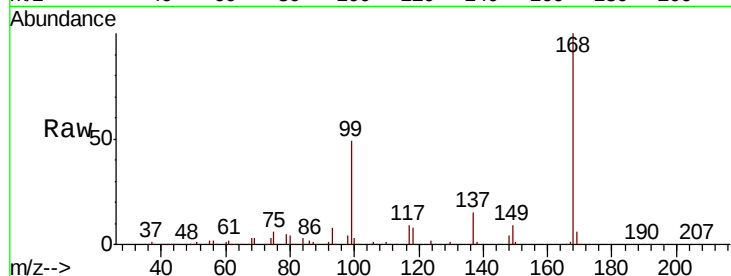
Tot Ion:117 Resp: 108405

Ion Ratio Lower Upper

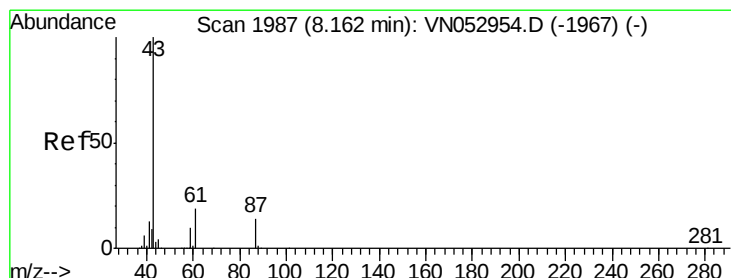
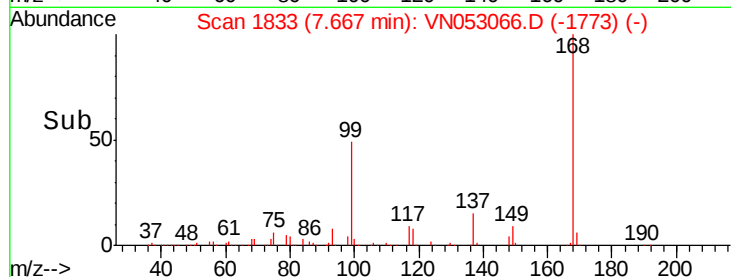
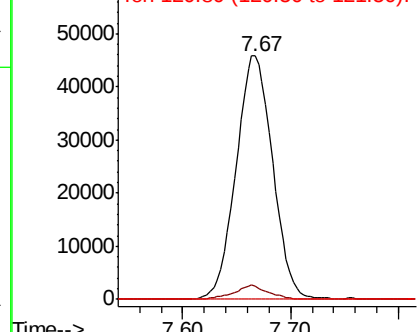
117 100

119 5.3 77.1 115.7#

121 0.0 24.9 37.3#



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



#43

Isopropyl Acetate

Concen: 1.656 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

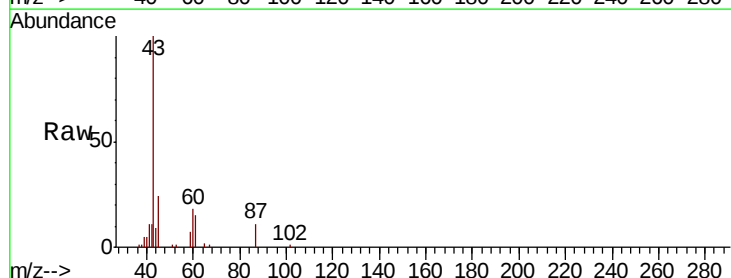
Tgt Ion: 43 Resp: 52833

Ion Ratio Lower Upper

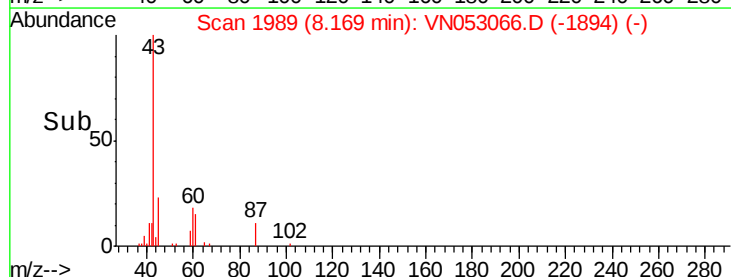
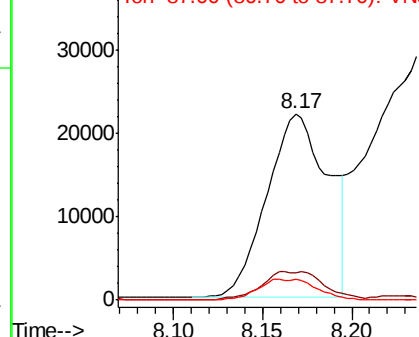
43 100

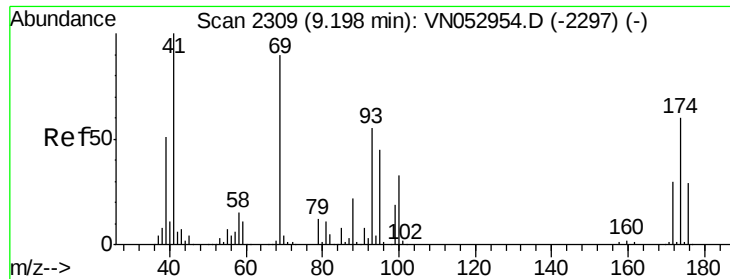
61 15.8 22.9 34.3#

87 10.9 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): V
Ion 61.00 (60.70 to 61.70): V
Ion 87.00 (86.70 to 87.70): V

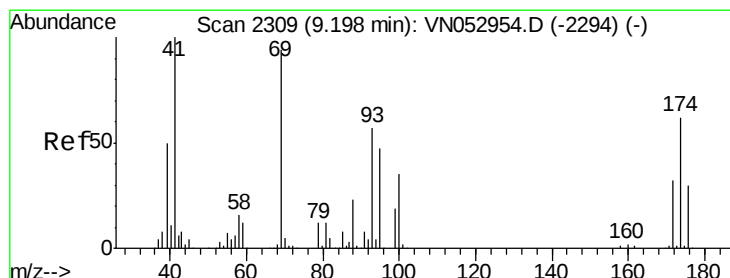
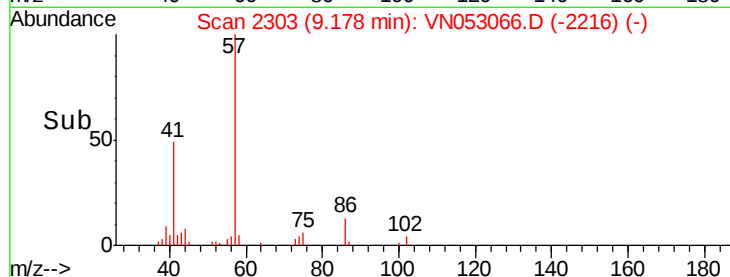
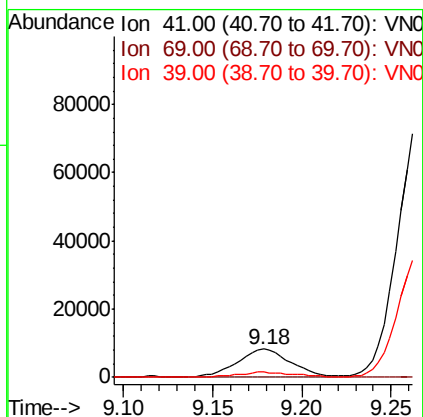
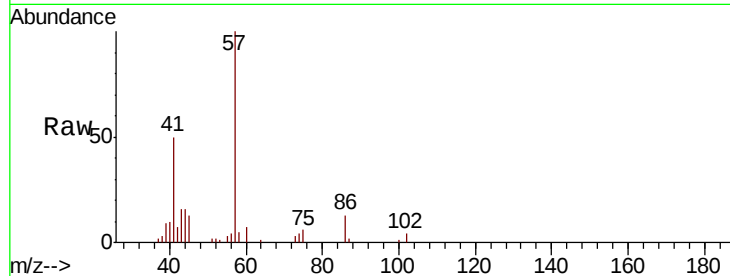




#48
Methyl methacrylate
Concen: 1.632 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

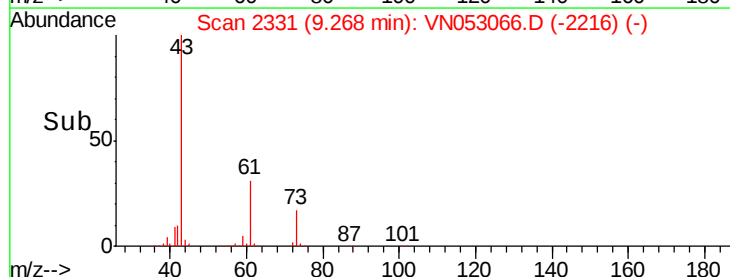
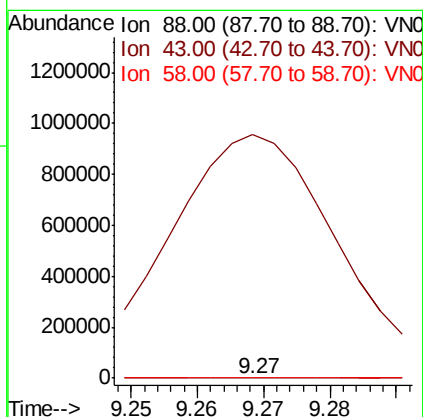
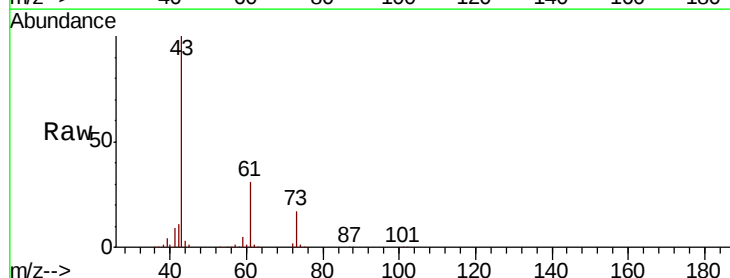
Instrument :
MSVOA_N
ClientSampled :

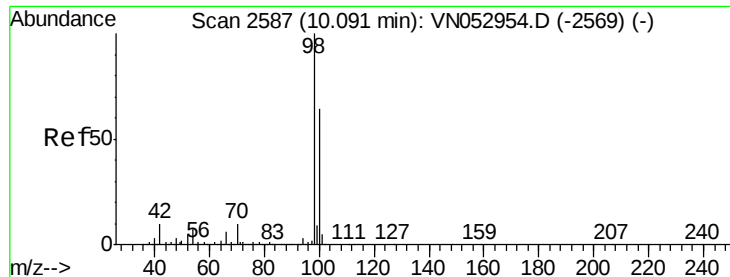
Tot Ion: 41 Resp: 16217
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 21.7 41.9 62.9#



#49
1,4-Dioxane
Concen: 1.201 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

Tgt Ion: 88 Resp: 151
Ion Ratio Lower Upper
88 100
43 1156302.0 26.6 40.0#
58 4919.9 58.4 87.6#





#50

Toluene-d8

Concen: 1.201 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :

MSVOA_N

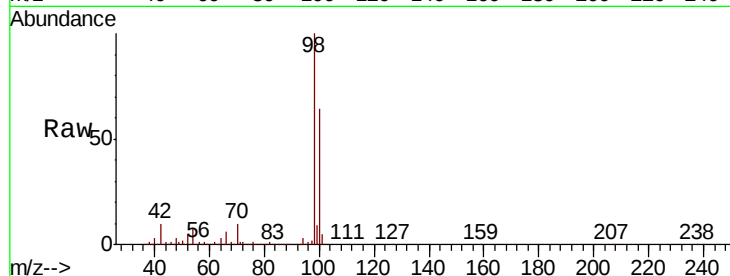
ClientSampled :

Tot Ion: 98 Resp: 2368122

Ion Ratio Lower Upper

98 100

100 64.2 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052954.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN052954.D (-2569) (-)

10.09

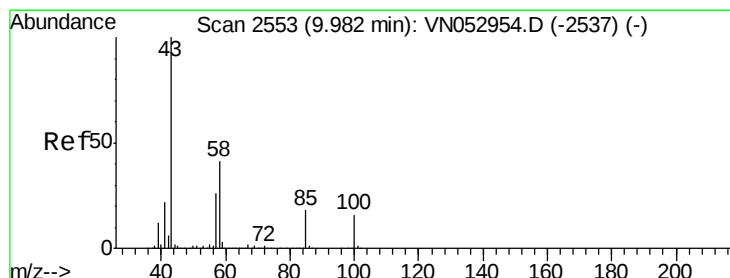
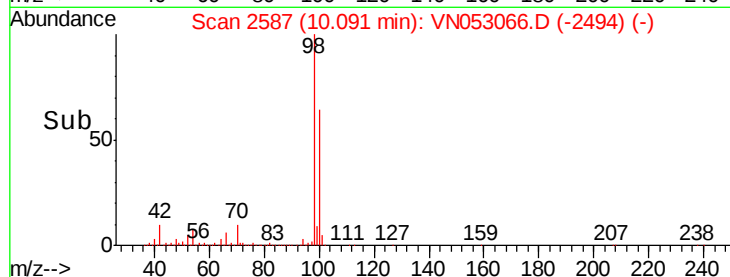
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.741 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.01 min

Lab File: VN053066.D

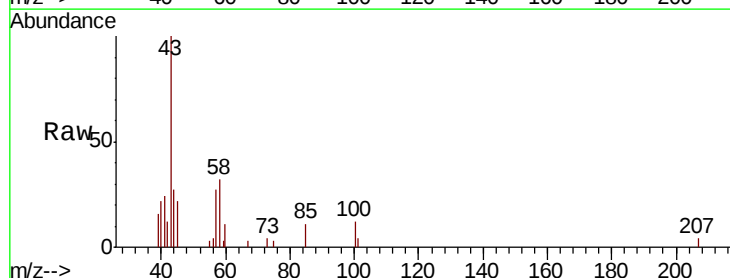
Acq: 20 Dec 2018 19:28

Tgt Ion: 43 Resp: 7344

Ion Ratio Lower Upper

43 100

58 42.4 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN052954.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN052954.D (-2537) (-)

9.99

30000

25000

20000

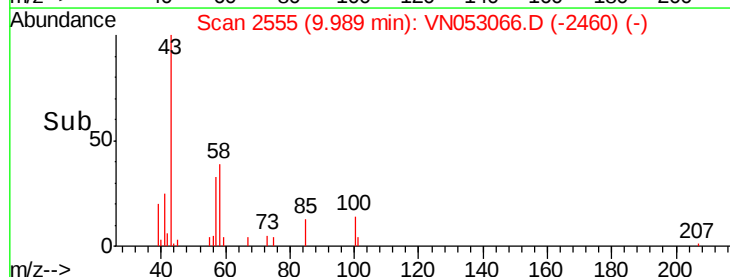
15000

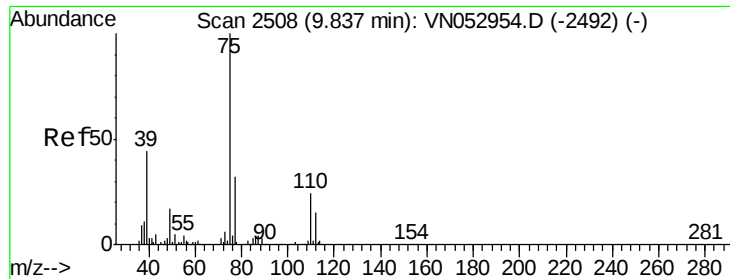
10000

5000

0

Time-->



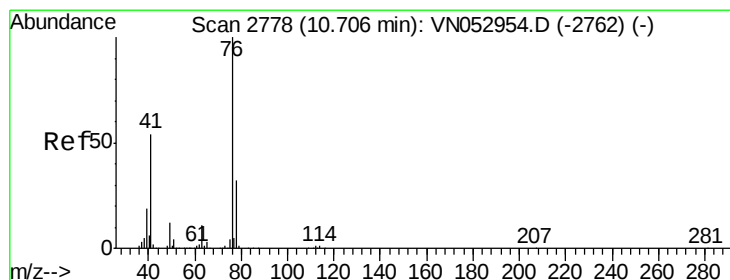
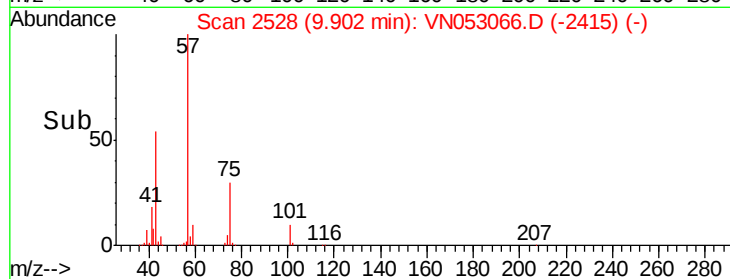
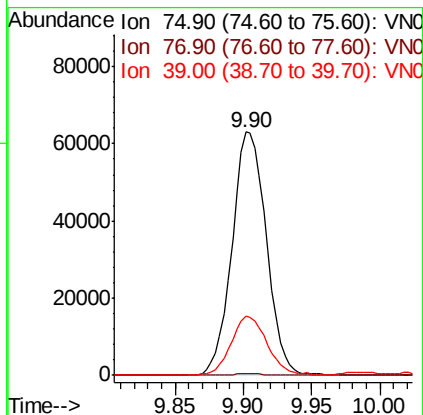
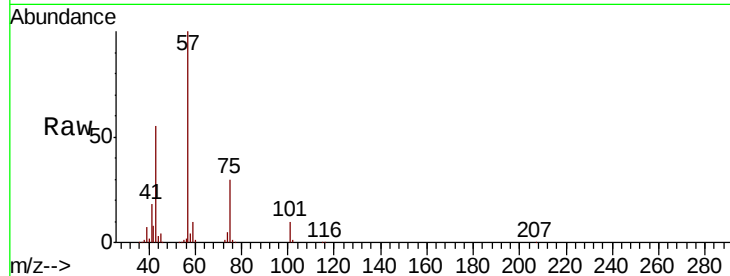


#54

cis-1,3-Dichloropropene
 Concen: 5.184 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.06 min
 Lab File: VN053066.D
 Acq: 20 Dec 2018 19:28

Instrument :
 MSVOA_N
 ClientSampleId :

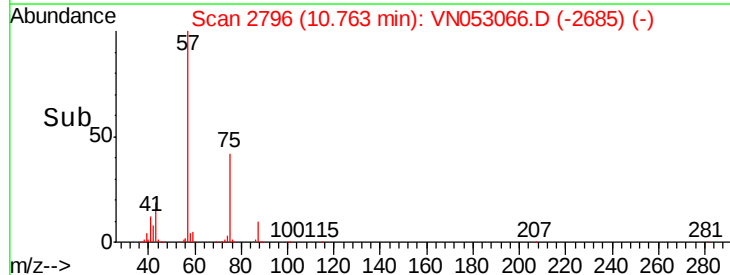
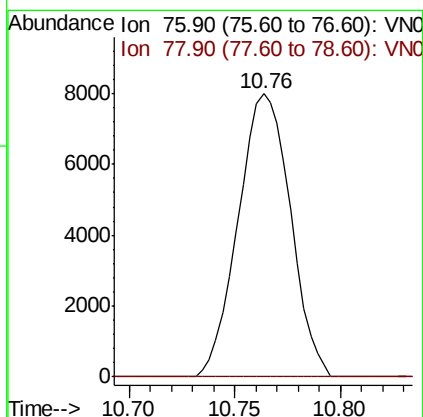
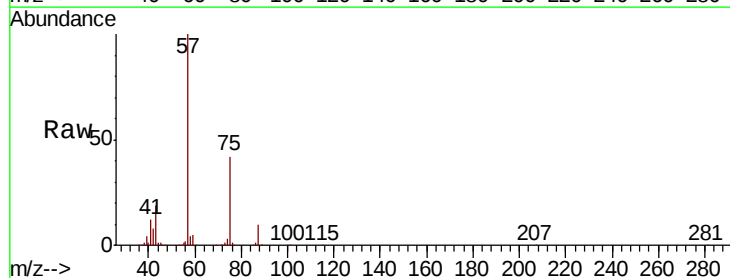
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.6	25.8	38.8#
39	24.0	34.8	52.2#

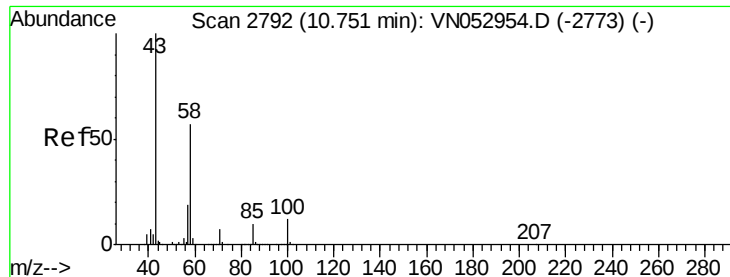


#57

1,3-Dichloropropane
 Concen: 0.680 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN053066.D
 Acq: 20 Dec 2018 19:28

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	25.8	38.8#

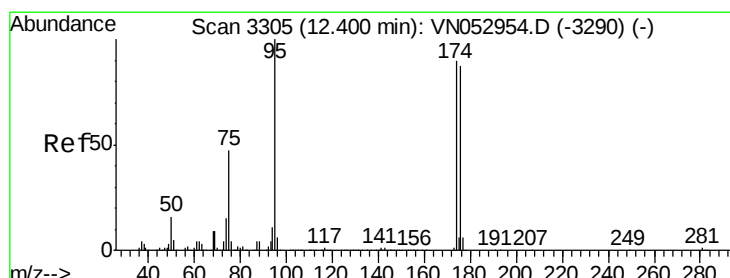
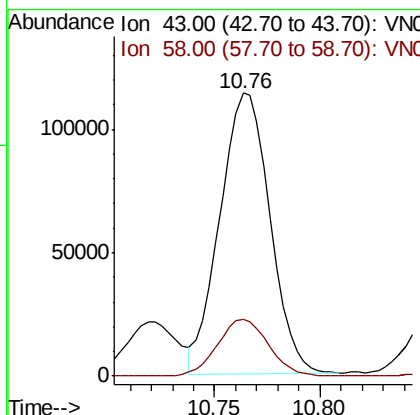
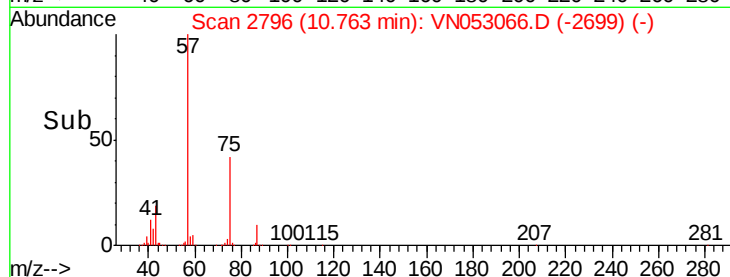
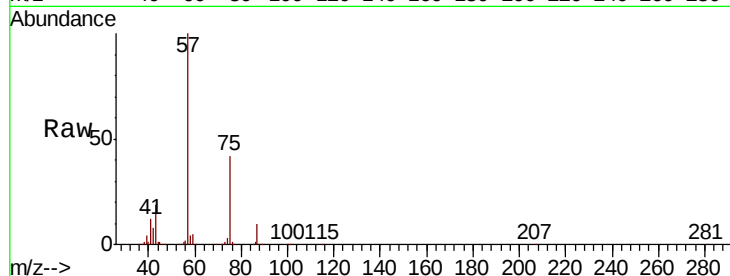




#59
2-Hexanone
Concen: 27.944 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

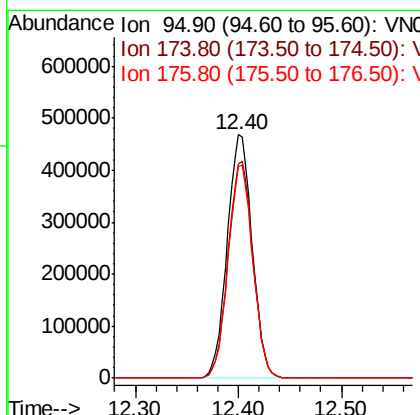
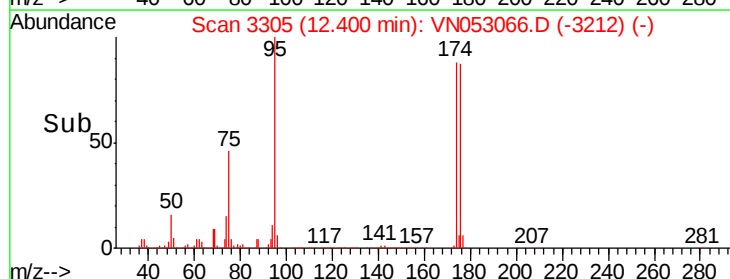
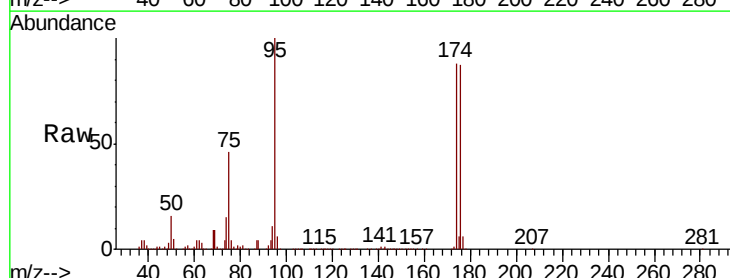
Instrument :
MSVOA_N
ClientSampleId :

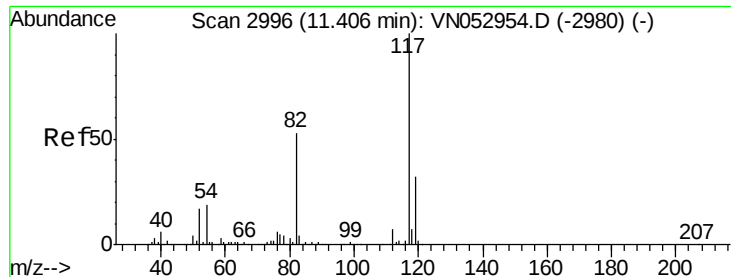
Tot Ion: 43 Resp: 187493
Ion Ratio Lower Upper
43 100
58 20.8 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

Tgt Ion: 95 Resp: 789146
Ion Ratio Lower Upper
95 100
174 89.0 0.0 178.8
176 86.6 0.0 173.8

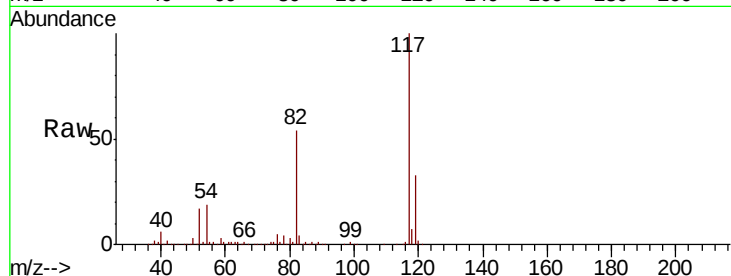




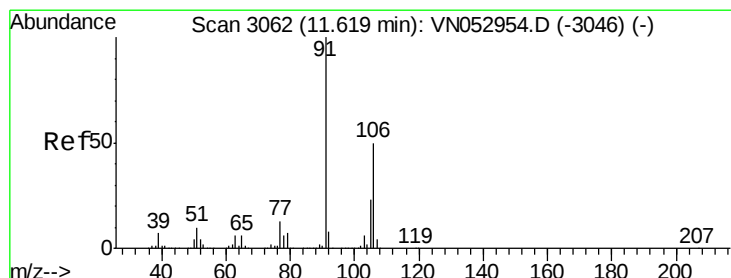
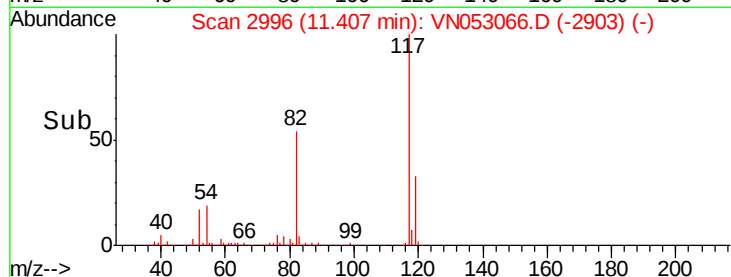
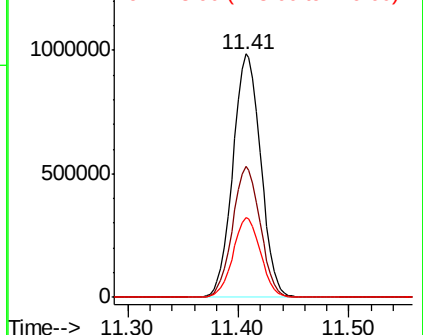
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1725287
Ion Ratio Lower Upper
117 100
82 53.6 42.8 64.2
119 32.5 25.5 38.3

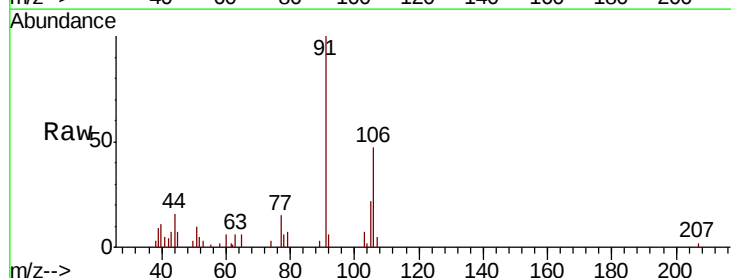


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

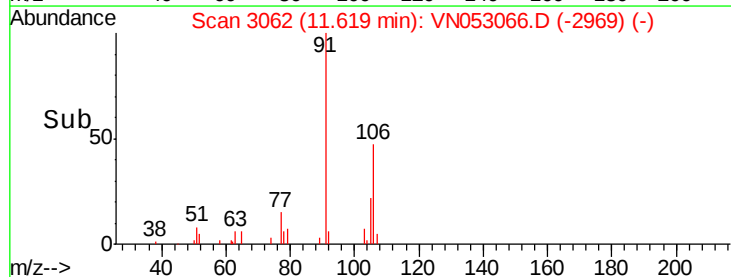
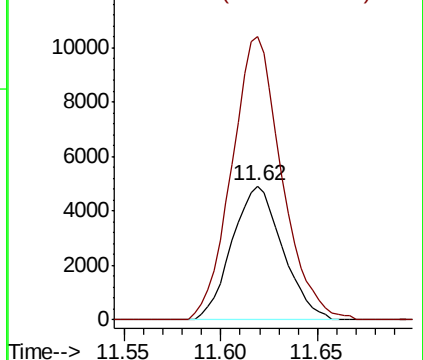


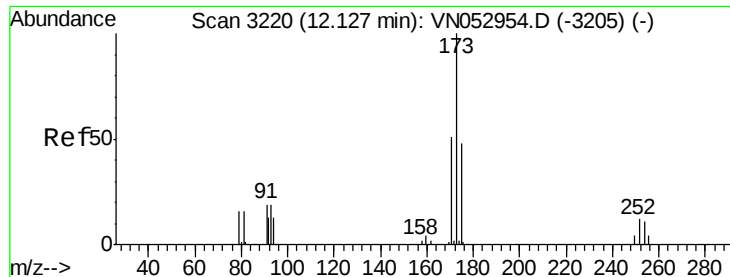
#68
m/p-Xylenes
Concen: 0.358 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN053066.D
Acq: 20 Dec 2018 19:28

Tgt Ion:106 Resp: 8961
Ion Ratio Lower Upper
106 100
91 209.3 162.2 243.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.473 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :

MSVOA_N

ClientSampleId :

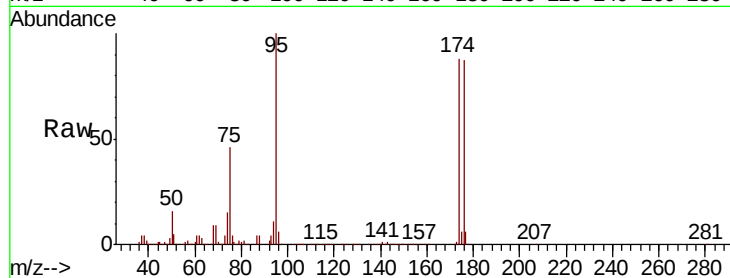
Tot Ion:173 Resp: 4548

Ion Ratio Lower Upper

173 100

175 973.2 24.3 72.9#

254 0.0 0.1 0.1#

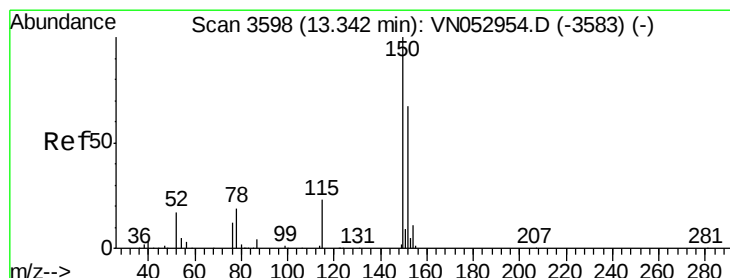
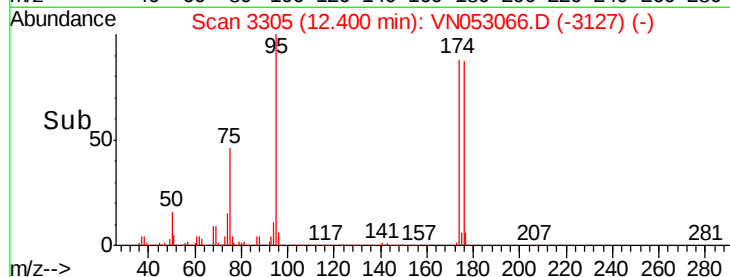
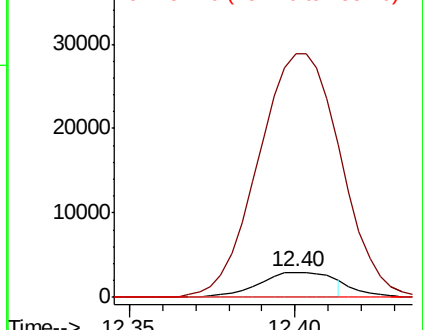


Abundance

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: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

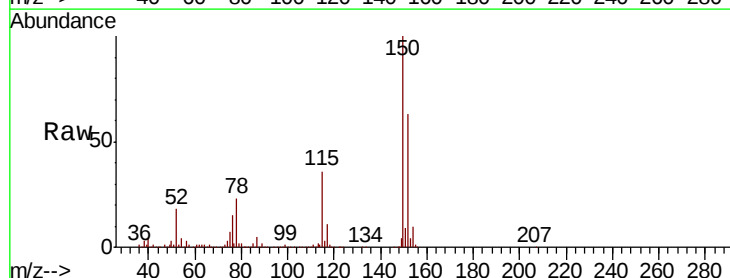
Tgt Ion:152 Resp: 718589

Ion Ratio Lower Upper

152 100

115 56.0 28.3 85.0

150 157.2 0.0 347.8

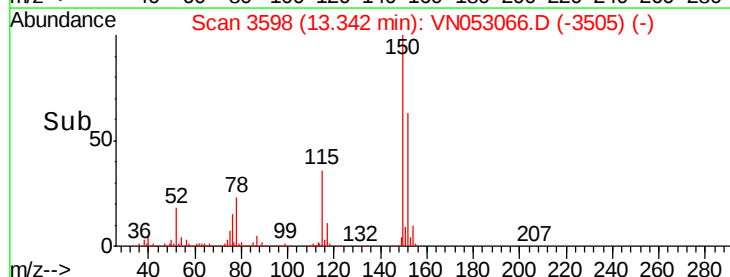
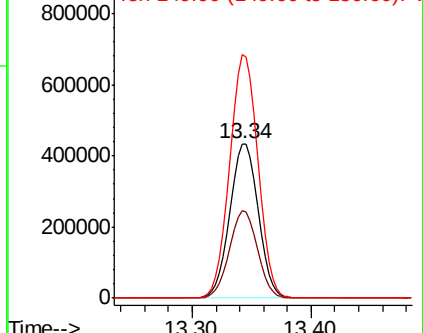


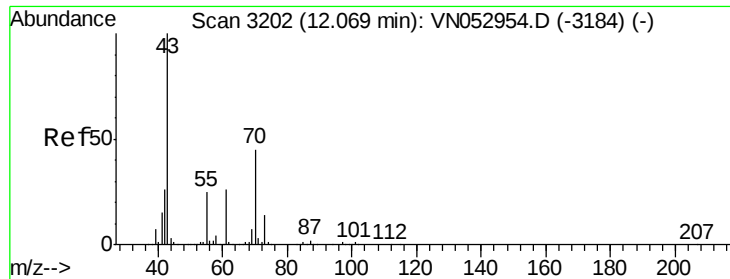
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.369 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 5761

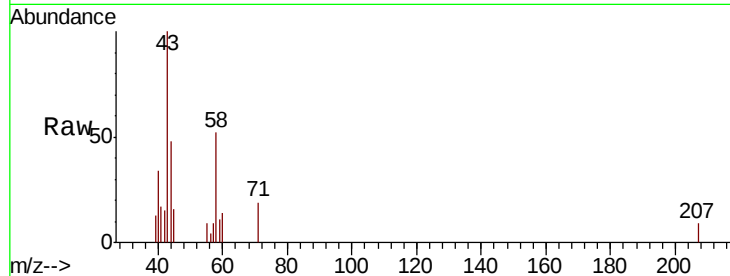
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.4#

55 10.8 20.3 30.5#

61 0.0 20.0 30.0#

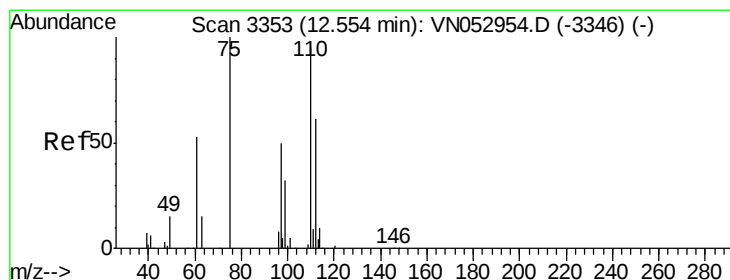
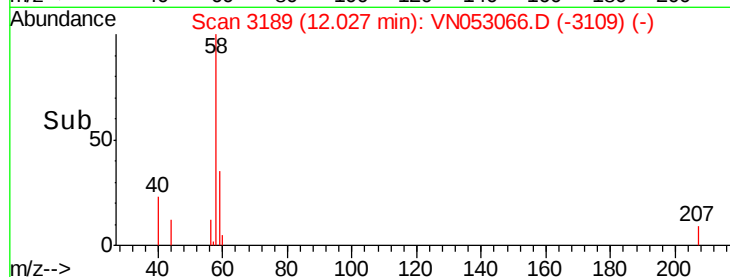
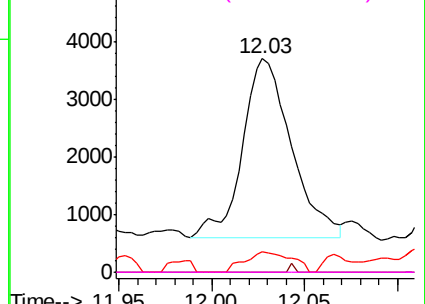


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.958 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053066.D

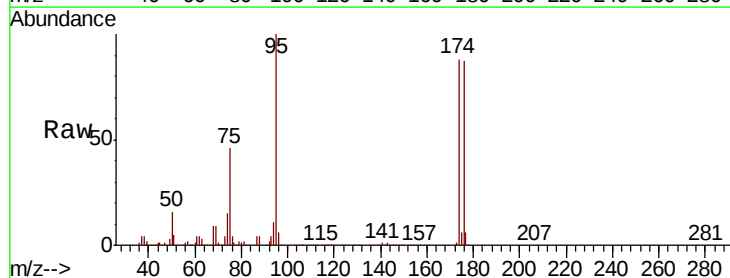
Acq: 20 Dec 2018 19:28

Tgt Ion: 75 Resp: 362394

Ion Ratio Lower Upper

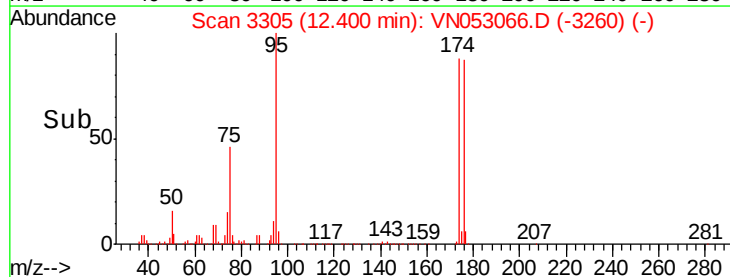
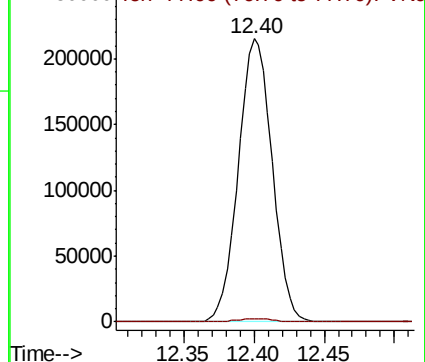
75 100

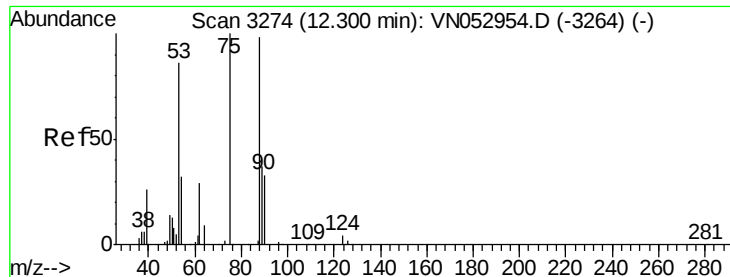
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 96.558 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :

MSVOA_N

ClientSampled :

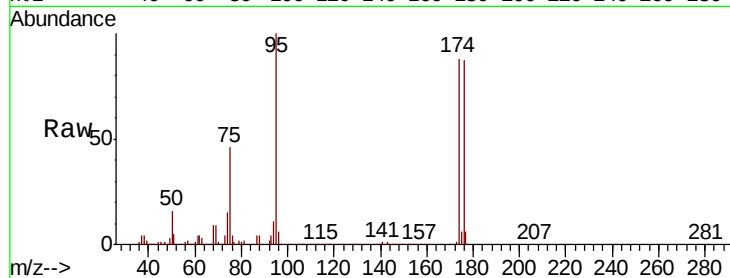
Tot Ion: 75 Resp: 362394

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

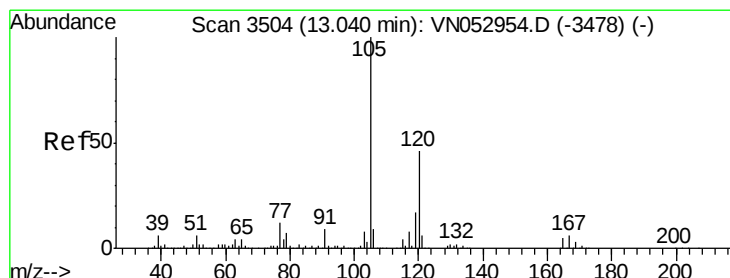
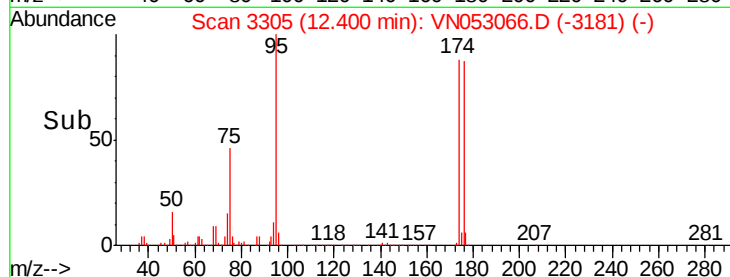
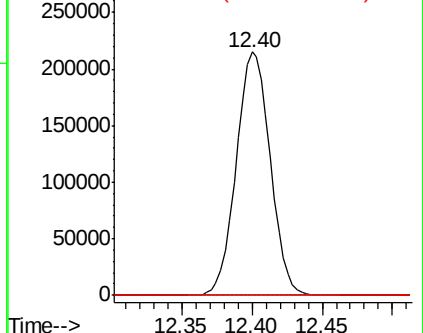
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN052954.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN052954.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN052954.D (-3264) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.407 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053066.D

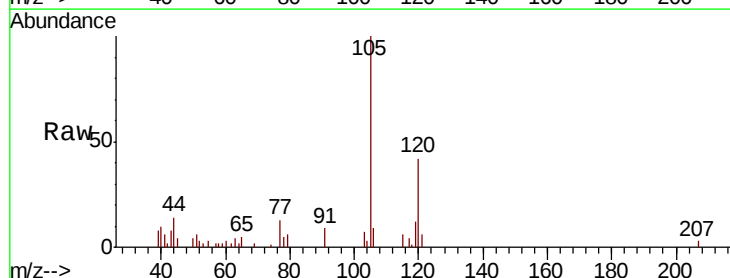
Acq: 20 Dec 2018 19:28

Tgt Ion: 105 Resp: 18770

Ion Ratio Lower Upper

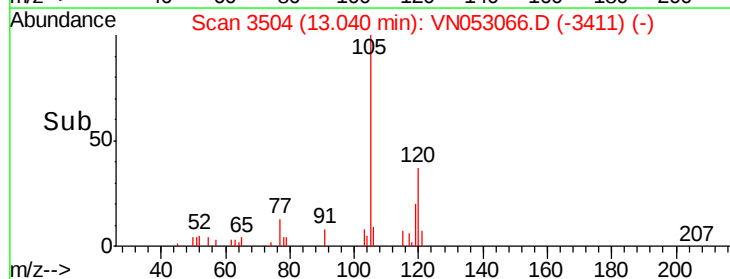
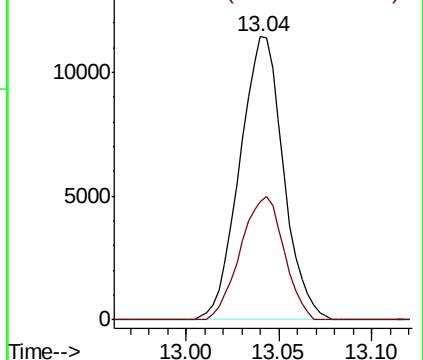
105 100

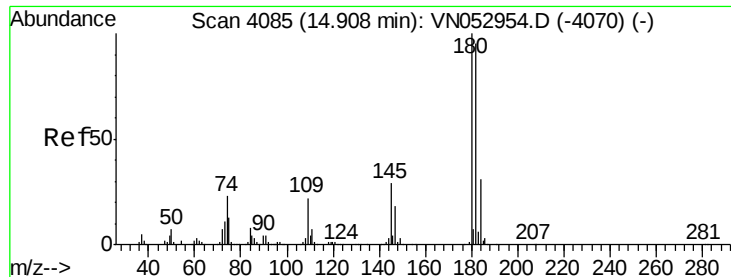
120 43.3 22.9 68.8



Abundance Ion 105.00 (104.70 to 105.70): VN052954.D (-3478) (-)

Ion 120.00 (119.70 to 120.70): VN052954.D (-3478) (-)





#93

1,2,4-Trichlorobenzene

Concen: 0.637 ug/l

RT: 14.90 min Scan# 4084

Delta R.T. -0.00 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

Instrument :

MSVOA_N

ClientSampled :

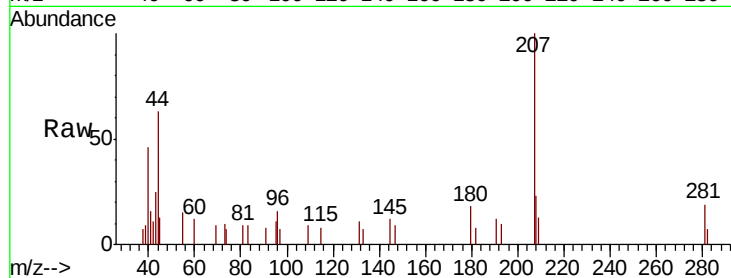
Tot Ion:180 Resp: 533

Ion Ratio Lower Upper

180 100

182 29.1 47.8 143.3#

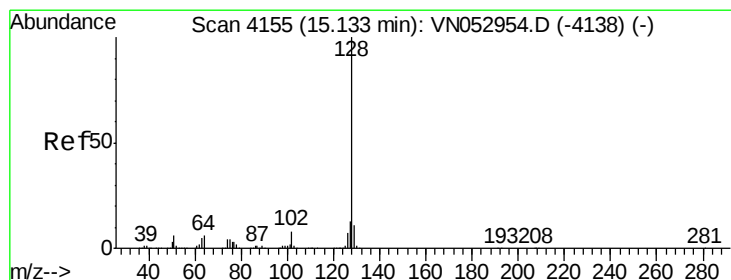
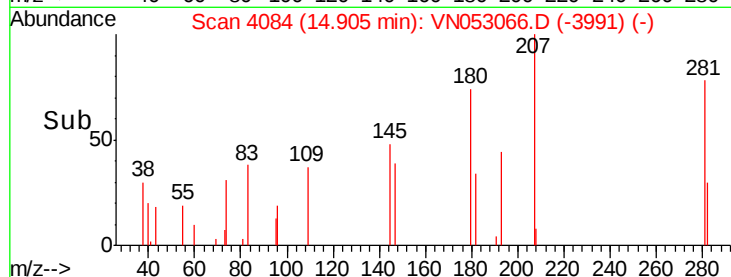
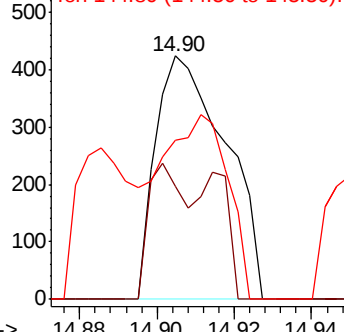
145 73.0 14.2 42.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#95

Naphthalene

Concen: 6.679 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053066.D

Acq: 20 Dec 2018 19:28

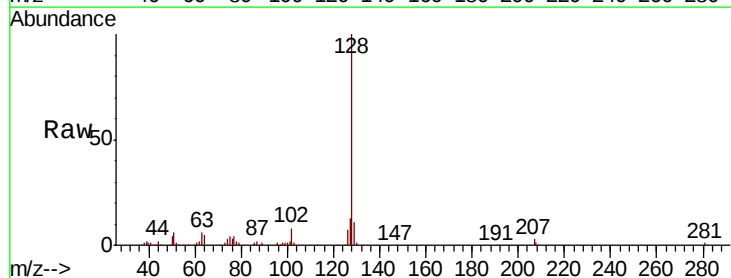
Tgt Ion:128 Resp: 159981

Ion Ratio Lower Upper

128 100

127 12.9 10.2 15.4

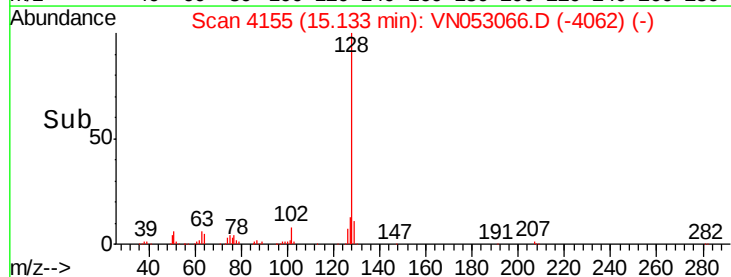
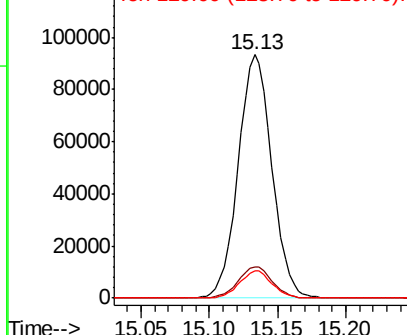
129 10.9 8.6 13.0

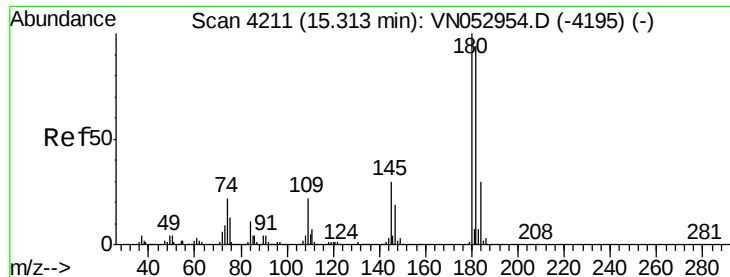


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.517 ug/l
 RT: 15.32 min Scan# 4213
 Delta R.T. 0.01 min
 Lab File: VN053066.D
 Acq: 20 Dec 2018 19:28

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	62.4	47.9	143.7
145	720.8	15.0	45.0

