

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032519\
 Data File : VN054664.D
 Acq On : 25 Mar 2019 11:29
 Operator : JC/SP
 Sample : K2050-01
 Misc : 2.24g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CS-5

Quant Time: Mar 26 01:22:54 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	517875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	831287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	699937	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	278399	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.02	65	329978	51.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.46%	
35) Dibromofluoromethane	7.59	113	257736	48.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.26%	
50) Toluene-d8	10.09	98	989218	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	12.40	95	317590	46.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.72%	

Target Compounds

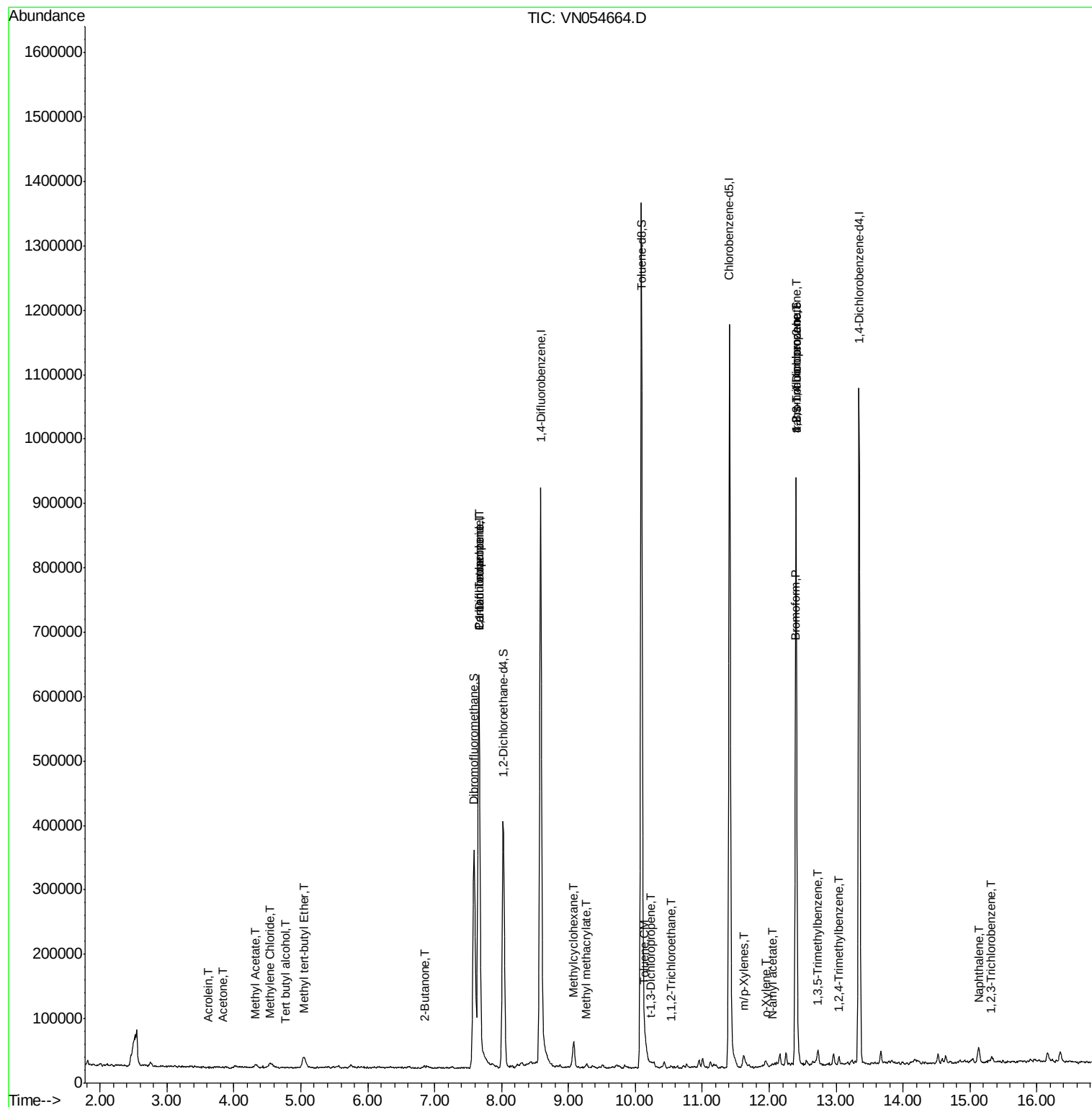
						Qvalue
11) Tert butyl alcohol	4.77	59	105	0.269	ug/l #	70
13) Acrolein	3.60	56	187	0.347	ug/l #	14
16) Acetone	3.83	43	862	0.445	ug/l #	38
18) Methyl Acetate	4.33	43	10824	2.508	ug/l #	67
19) Methyl tert-butyl Ether	5.05	73	23083	1.583	ug/l #	75
20) Methylene Chloride	4.54	84	1841	0.322	ug/l #	84
25) 2-Butanone	6.86	43	3118	1.257	ug/l #	71
31) Cyclohexane	7.66	56	16125	Below Cal	#	47
36) 1,1-Dichloropropene	7.66	75	39615	5.097	ug/l #	49
38) Carbon Tetrachloride	7.66	117	47848	6.335	ug/l #	16
39) Methylcyclohexane	9.08	83	17375	1.954	ug/l #	87
48) Methyl methacrylate	9.28	41	1664	0.328	ug/l #	38
52) Toluene	10.15	92	3014	0.220	ug/l	94
53) t-1,3-Dichloropropene	10.23	75	95	2.244	ug/l #	42
55) 1,1,2-Trichloroethane	10.53	97	1091	0.222	ug/l #	15
68) m/p-Xylenes	11.62	106	5410	0.568	ug/l	88
69) o-Xylene	11.95	106	2002	0.215	ug/l	77
71) Bromoform	12.38	173	129	2.255	ug/l #	28
74) N-amyl acetate	12.04	43	1538	0.238	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	165449	37.451	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4169	0.227	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	165449	124.088	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.04	105	6945	0.385	ug/l	96
95) Naphthalene	15.13	128	18701	1.883	ug/l	97
96) 1,2,3-Trichlorobenzene	15.31	180	1051	0.237	ug/l #	58

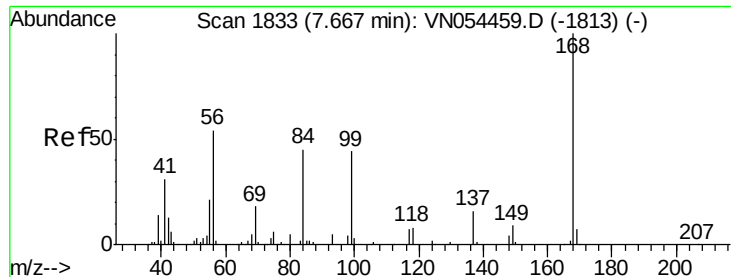
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

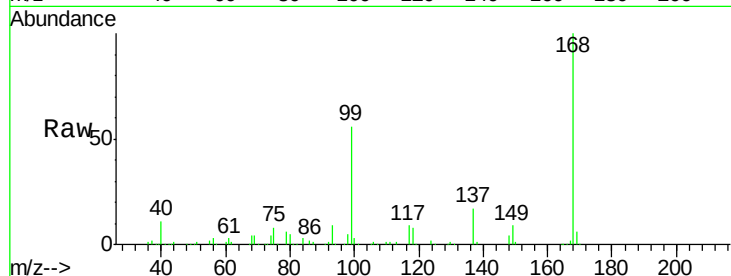
CS-5

Tot Ion:168 Resp: 517875

Ion Ratio Lower Upper

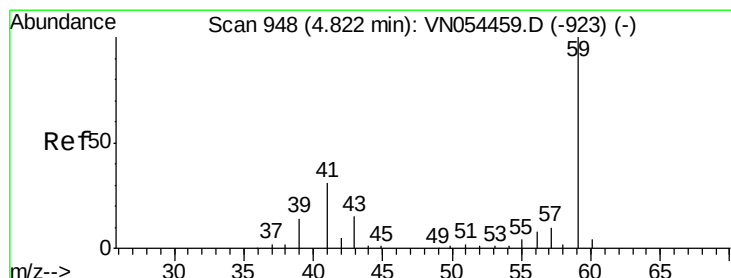
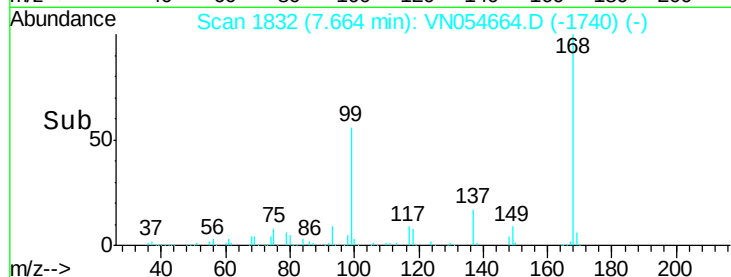
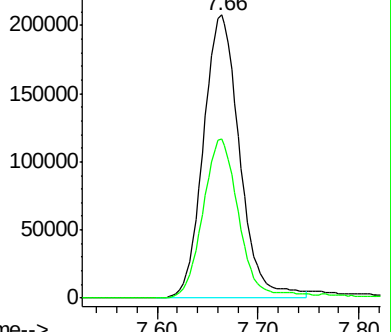
168 100

99 56.3 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.269 ug/l

RT: 4.77 min Scan# 931

Delta R.T. -0.05 min

Lab File: VN054664.D

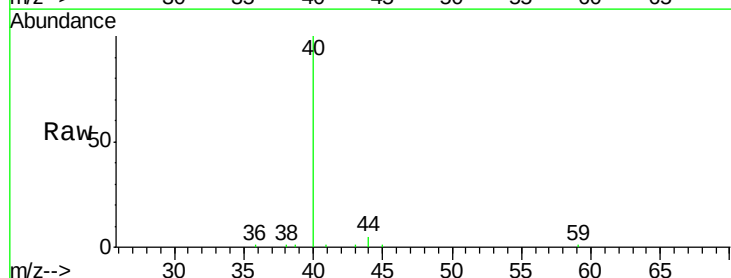
Acq: 25 Mar 2019 11:29

Tgt Ion: 59 Resp: 105

Ion Ratio Lower Upper

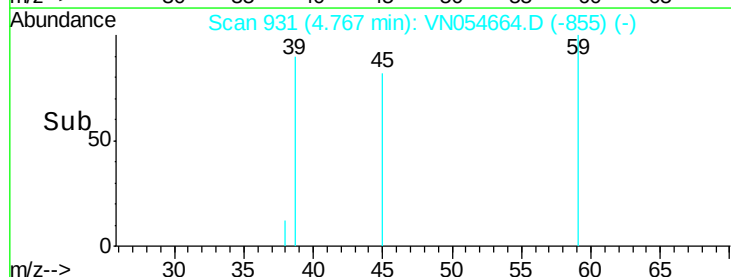
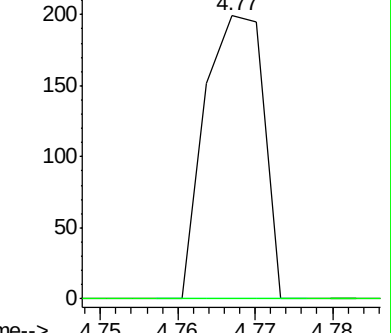
59 100

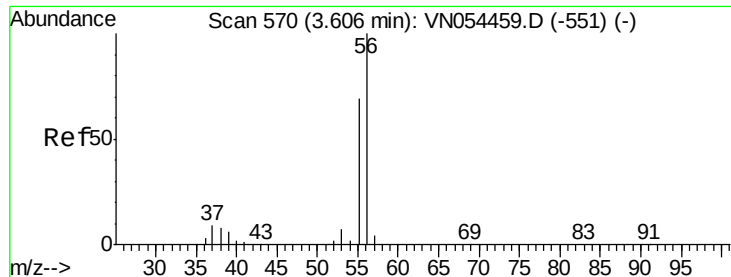
57 0.0 9.0 13.6#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#13

Acrolein

Concen: 0.347 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

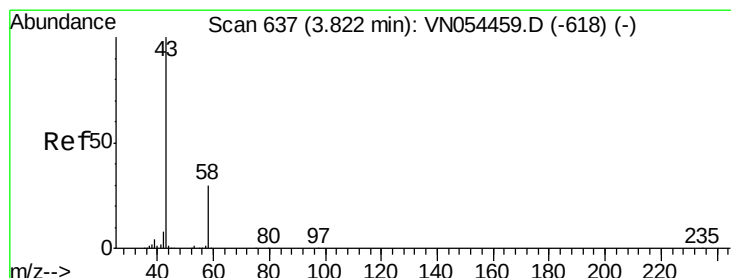
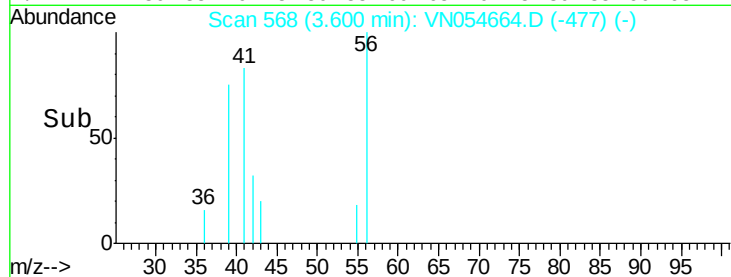
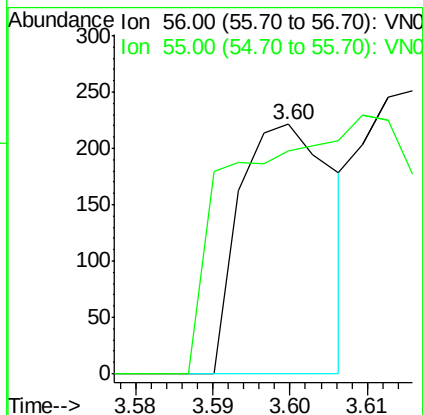
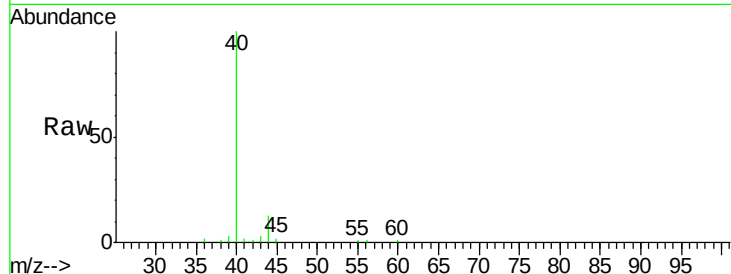
CS-5

Tot Ion: 56 Resp: 187

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 0.445 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.01 min

Lab File: VN054664.D

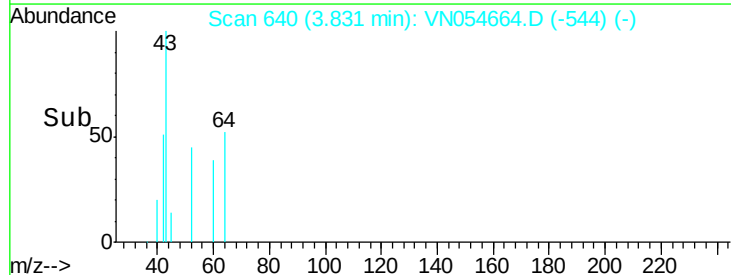
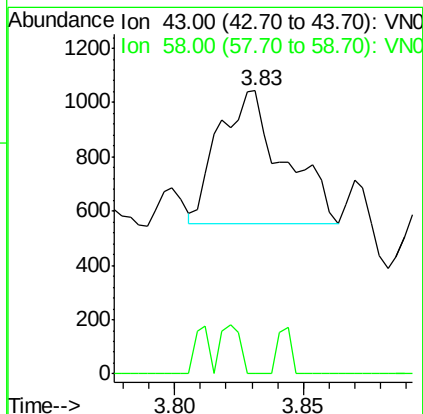
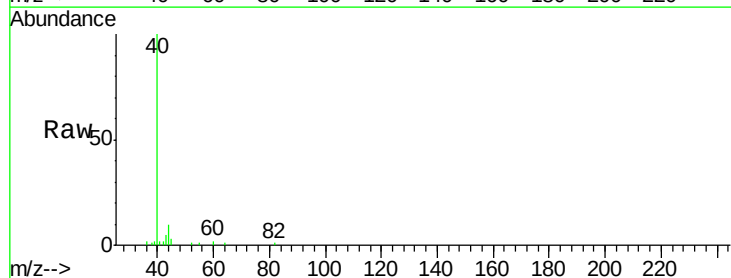
Acq: 25 Mar 2019 11:29

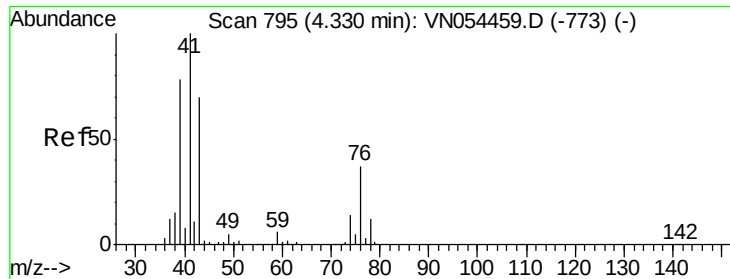
Tgt Ion: 43 Resp: 862

Ion Ratio Lower Upper

43 100

58 0.0 29.9 44.9#

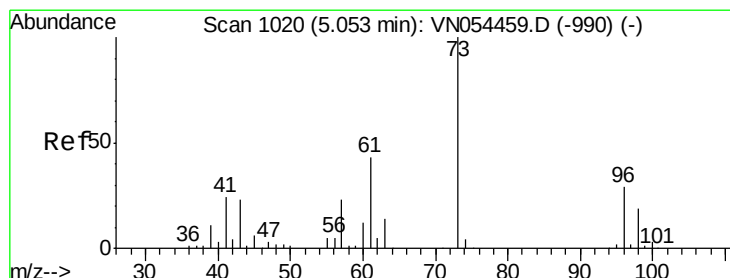
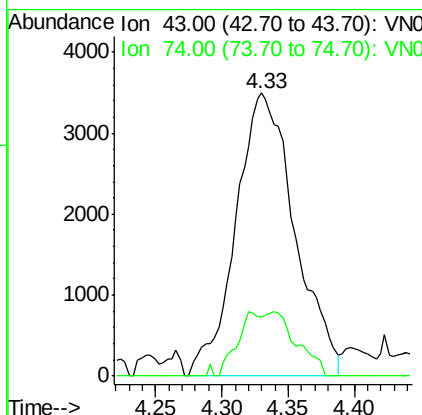
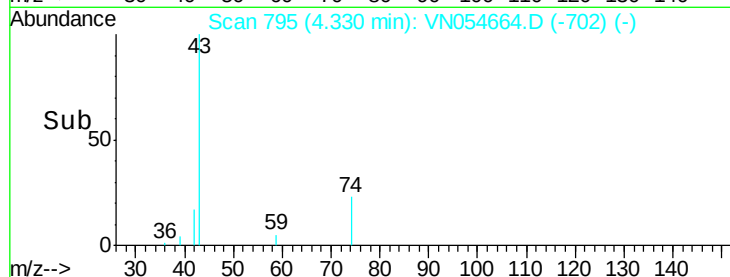
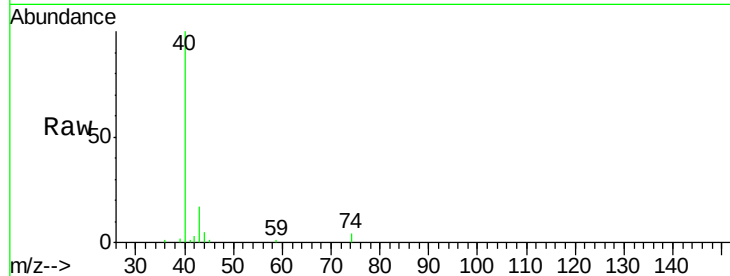




#18
Methyl Acetate
Concen: 2.508 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

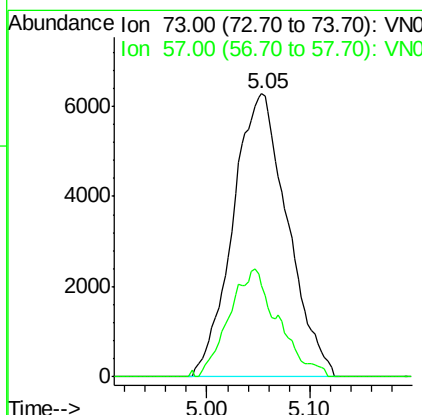
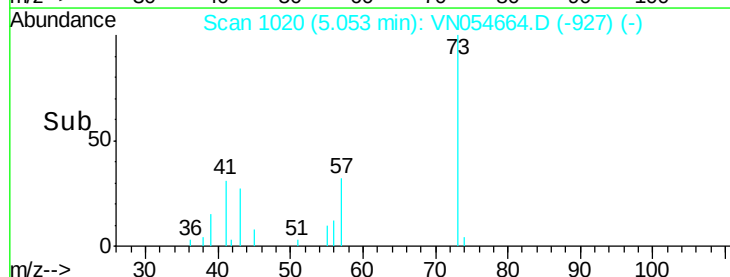
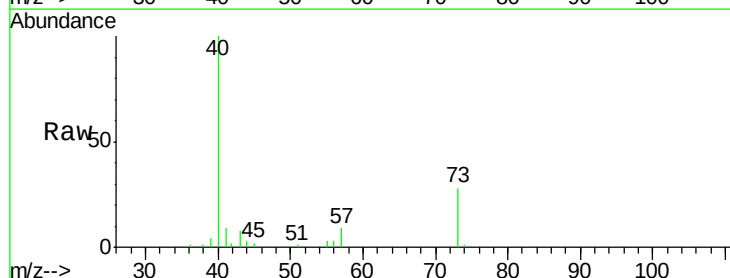
Instrument :
MSVOA_N
ClientSampleId :
CS-5

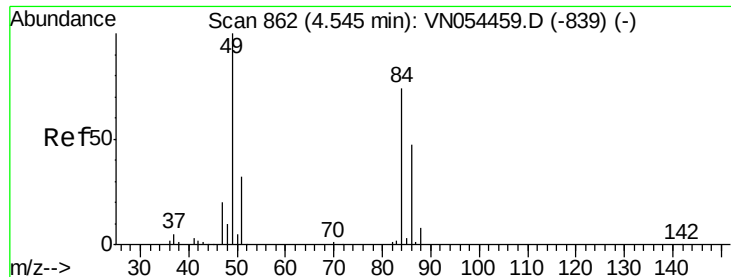
Tot Ion: 43 Resp: 10824
Ion Ratio Lower Upper
43 100
74 9.3 20.8 31.2#



#19
Methyl tert-butyl Ether
Concen: 1.583 ug/l
RT: 5.05 min Scan# 1020
Delta R.T. 0.00 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

Tgt Ion: 73 Resp: 23083
Ion Ratio Lower Upper
73 100
57 32.5 16.8 25.2#

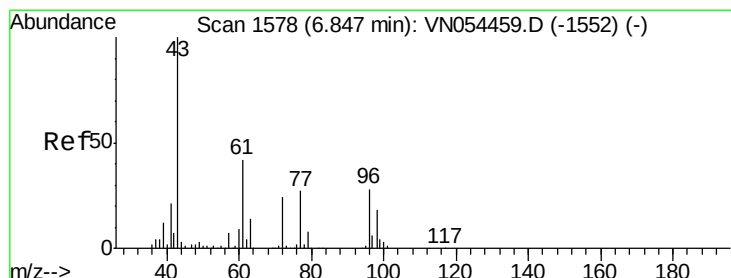
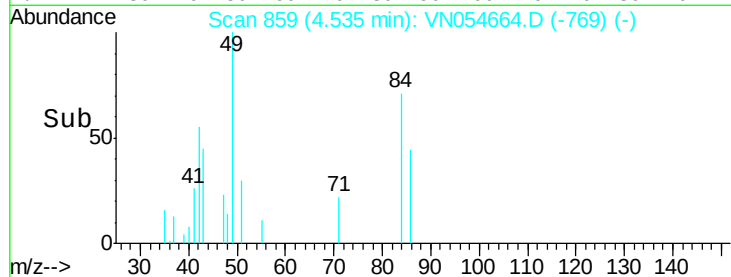
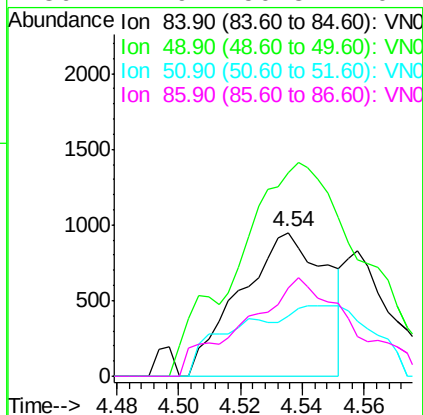
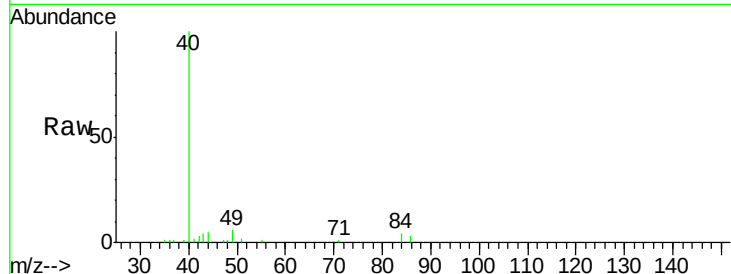




#20
Methvlene Chloride
Concen: 0.322 ug/l
RT: 4.54 min Scan# 859
Delta R.T. -0.01 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

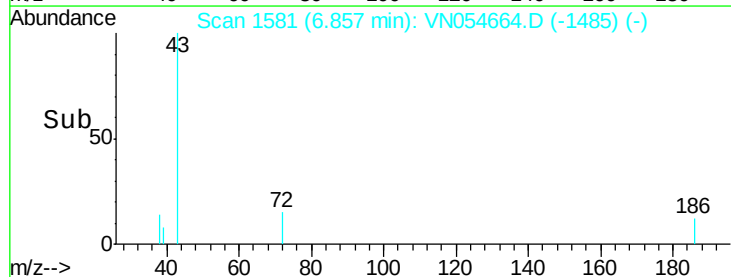
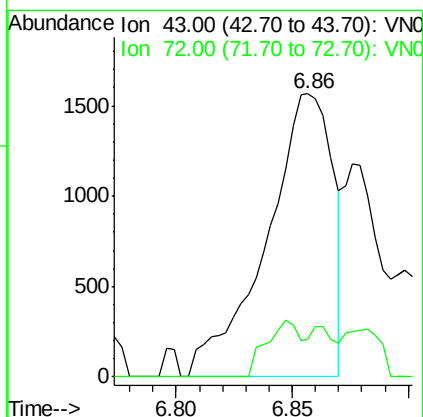
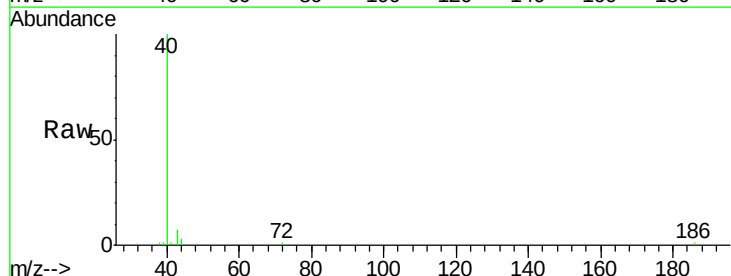
Instrument :
MSVOA_N
ClientSampled :
CS-5

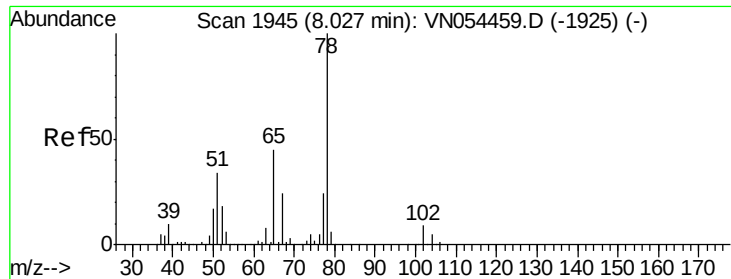
Tot Ion: 84 Resp: 1841
Ion Ratio Lower Upper
84 100
49 101.3 89.7 134.5
51 42.1 28.2 42.4
86 41.9 50.8 76.2#



#25
2-Butanone
Concen: 1.257 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

Tgt Ion: 43 Resp: 3118
Ion Ratio Lower Upper
43 100
72 13.2 23.0 34.6#

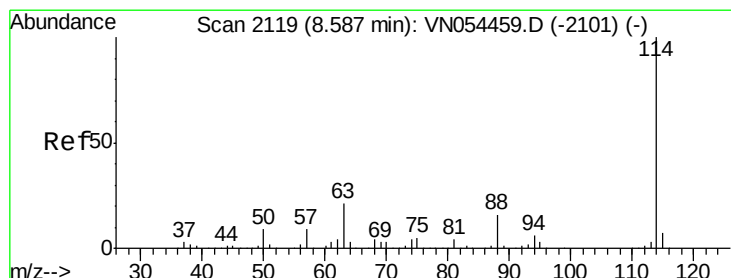
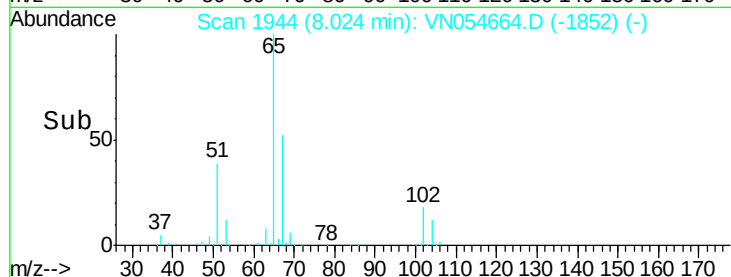
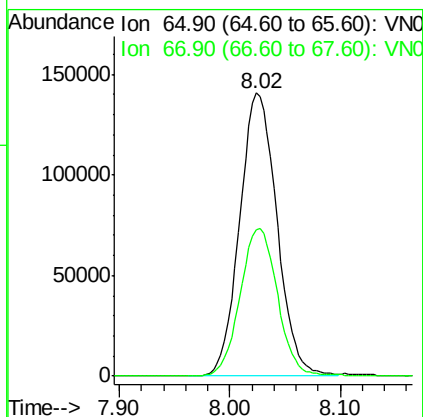
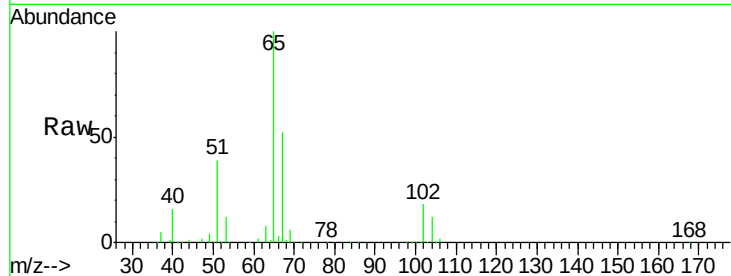




#33
 1,2-Dichloroethane-d4
 Concen: 51.227 ug/l
 RT: 8.02 min Scan# 1944
 Delta R.T. -0.00 min
 Lab File: VN054664.D
 Acq: 25 Mar 2019 11:29

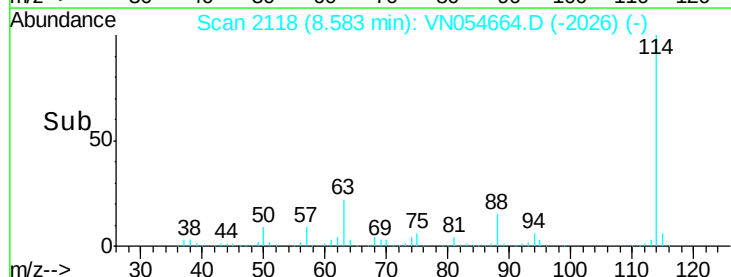
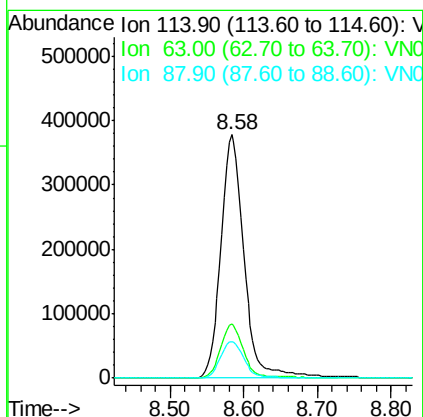
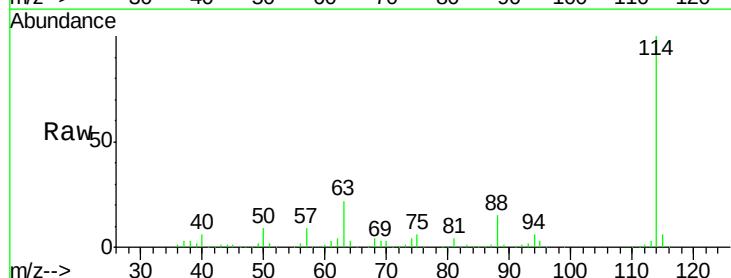
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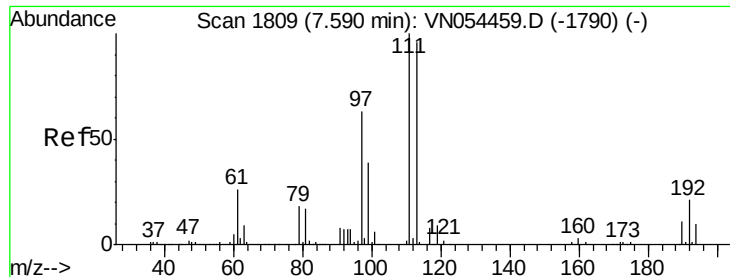
Tot Ion: 65 Resp: 329978
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054664.D
 Acq: 25 Mar 2019 11:29

Tgt Ion: 114 Resp: 831287
 Ion Ratio Lower Upper
 114 100
 63 22.3 0.0 35.2
 88 15.1 0.0 30.2

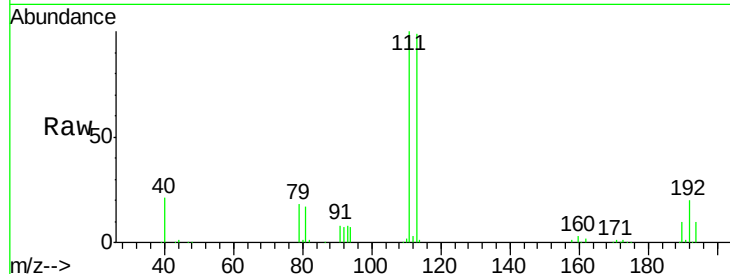




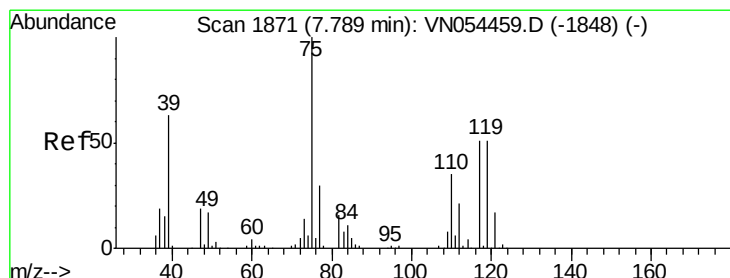
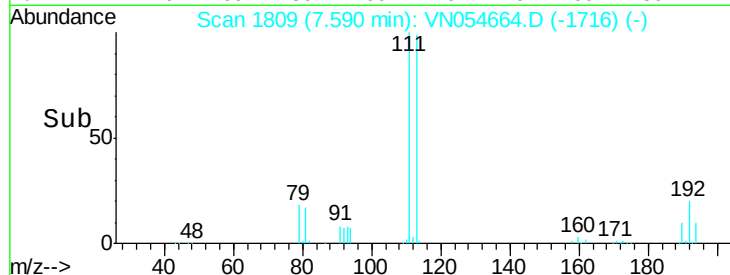
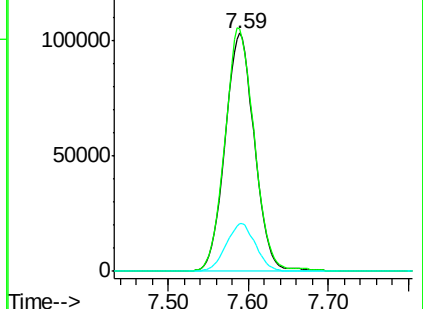
#35
 Dibromofluoromethane
 Concen: 48.125 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054664.D
 Acq: 25 Mar 2019 11:29

Instrument :
 MSVOA_N
 ClientSampled :
 CS-5

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.2	123.4
192	20.2	19.2	28.8

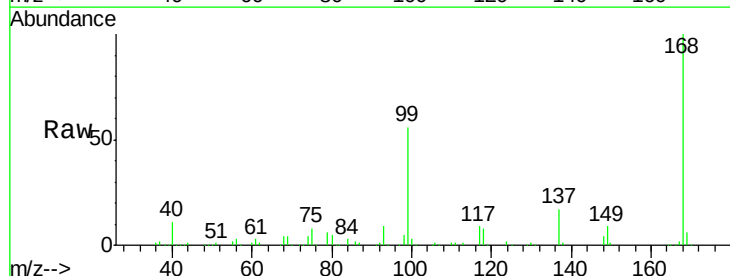


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

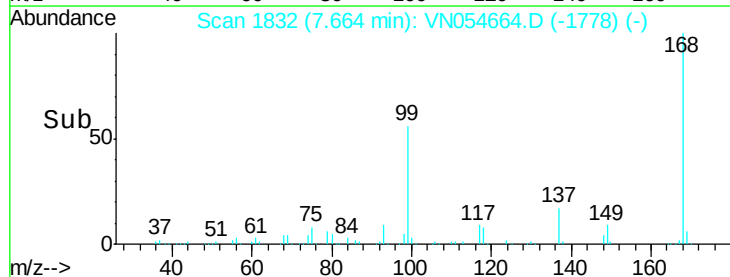
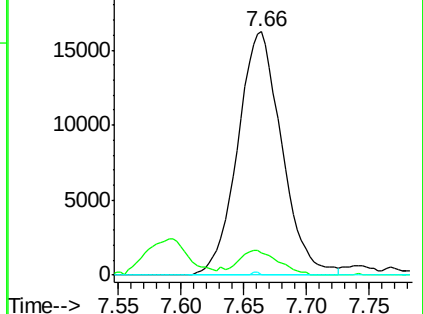


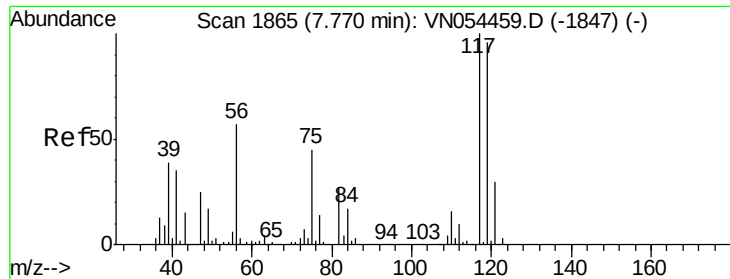
#36
 1,1-Dichloropropene
 Concen: 5.097 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054664.D
 Acq: 25 Mar 2019 11:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.5	19.1	57.5#
77	0.2	25.0	37.4#



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: 6.335 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

CS-5

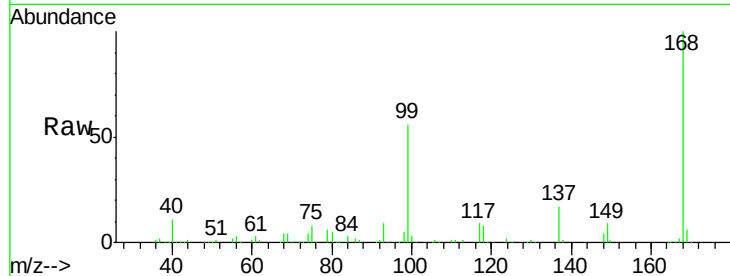
Tot Ion:117 Resp: 47848

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

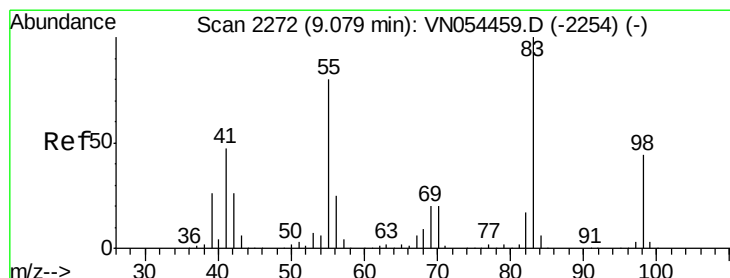
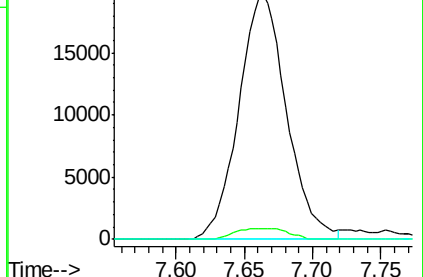
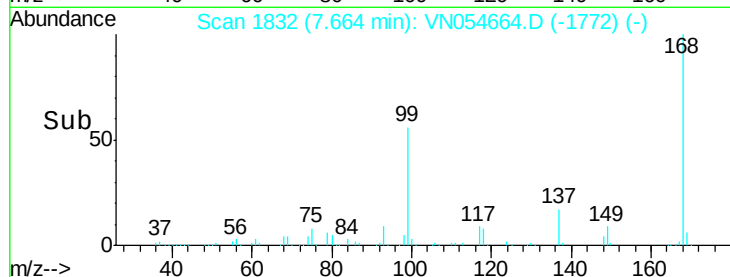
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 1.954 ug/l

RT: 9.08 min Scan# 2272

Delta R.T. 0.00 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

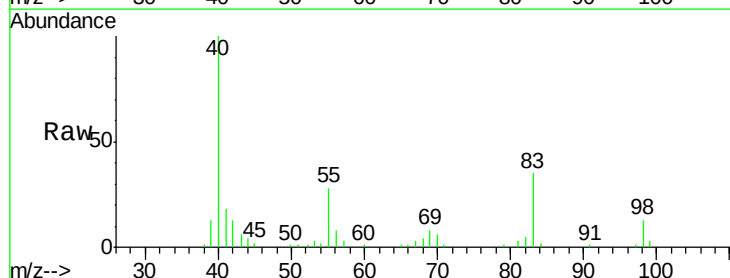
Tgt Ion: 83 Resp: 17375

Ion Ratio Lower Upper

83 100

55 80.3 56.6 84.8

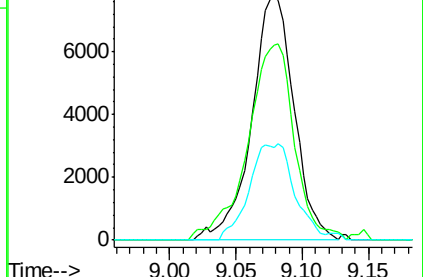
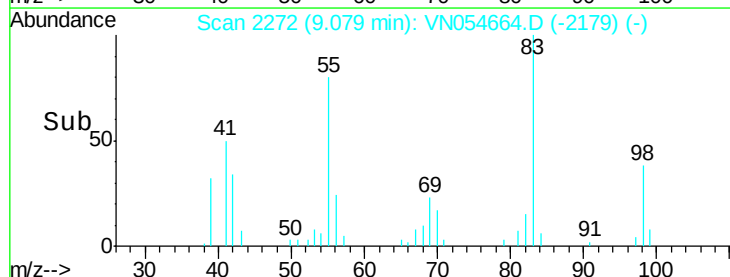
98 38.2 38.4 57.6#

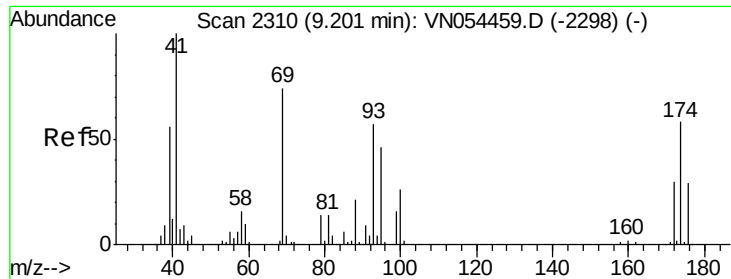


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

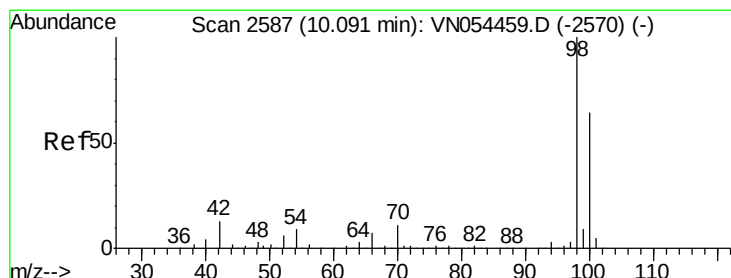
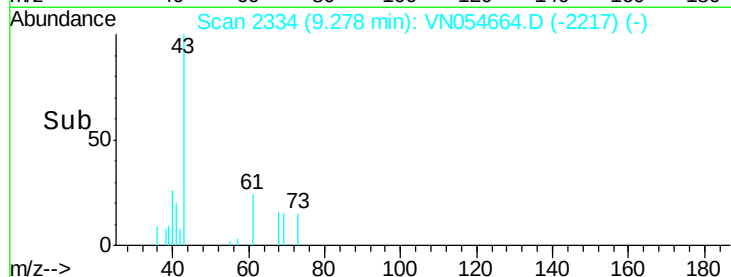
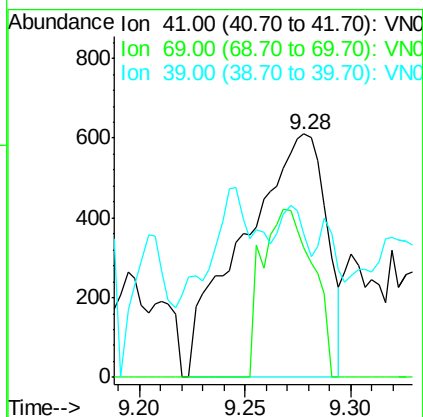
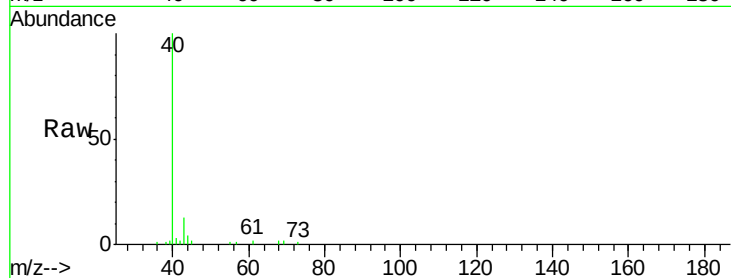




#48
Methvl methacrylate
Concen: 0.328 ug/l
RT: 9.28 min Scan# 2334
Delta R.T. 0.08 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

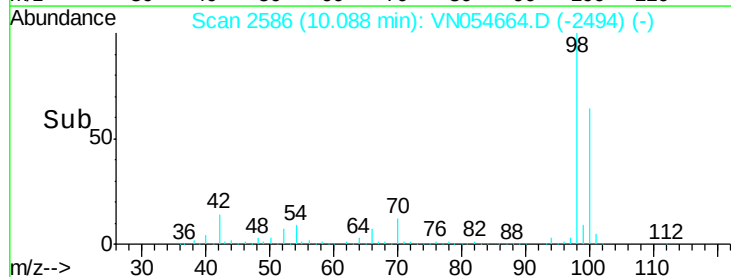
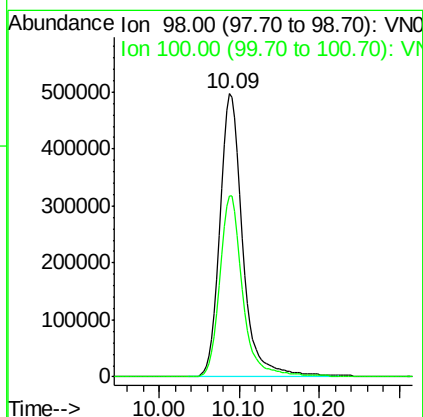
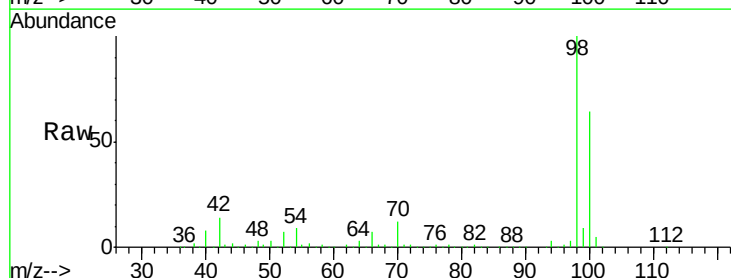
Instrument :
MSVOA_N
ClientSampled :
CS-5

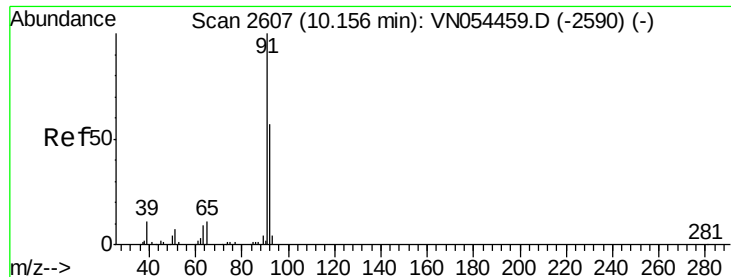
Tot Ion: 41 Resp: 1664
Ion Ratio Lower Upper
41 100
69 42.2 72.6 108.8#
39 0.0 47.5 71.3#



#50
Toluene-d8
Concen: 49.133 ug/l
RT: 10.09 min Scan# 2586
Delta R.T. -0.00 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

Tgt Ion: 98 Resp: 989218
Ion Ratio Lower Upper
98 100
100 64.3 51.2 76.8





#52

Toluene

Concen: 0.220 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. -0.01 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

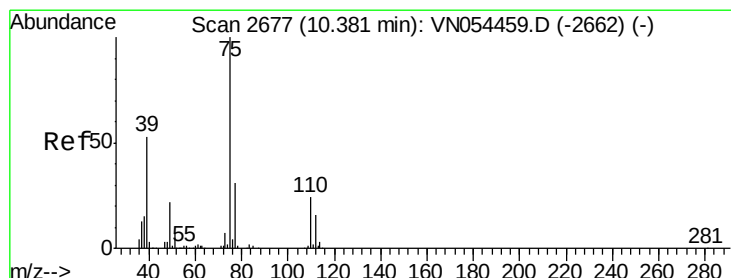
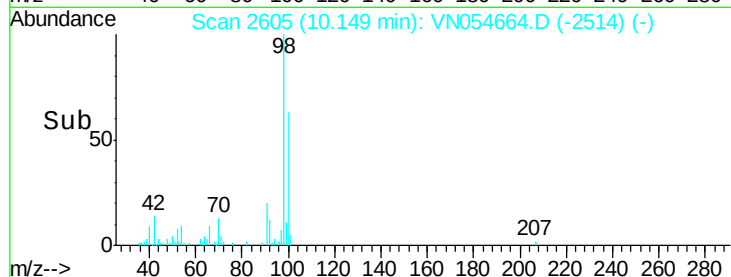
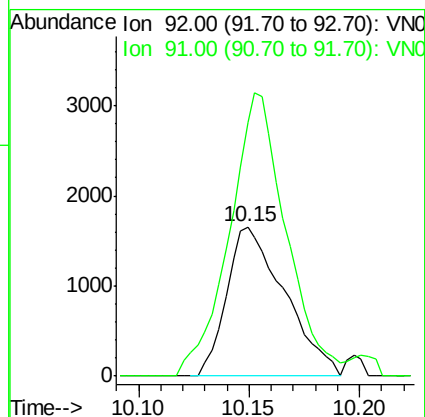
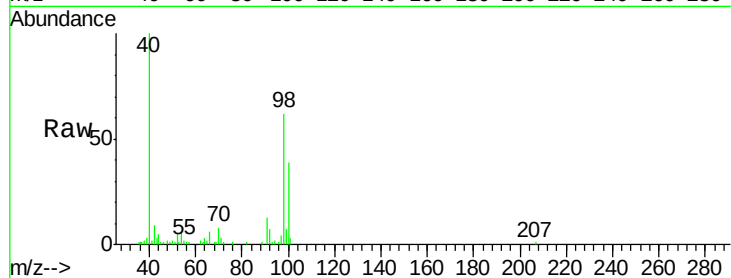
CS-5

Tot Ion: 92 Resp: 3014

Ion Ratio Lower Upper

92 100

91 184.8 140.7 211.1



#53

t-1,3-Dichloropropene

Concen: 2.244 ug/l

RT: 10.23 min Scan# 2631

Delta R.T. -0.15 min

Lab File: VN054664.D

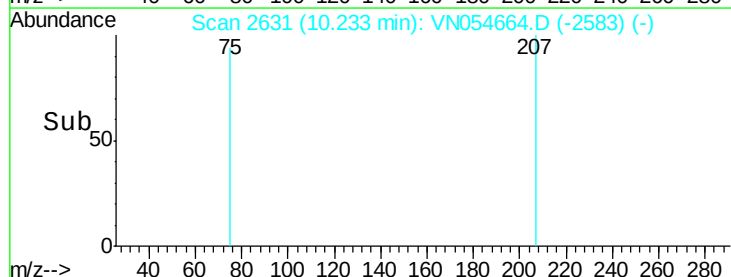
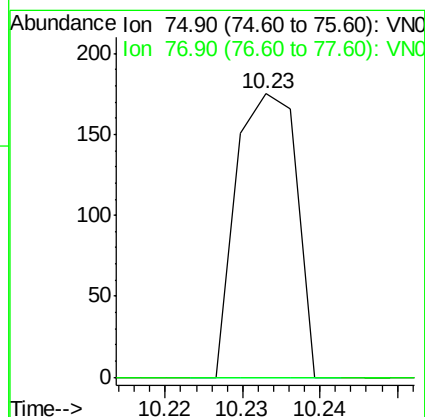
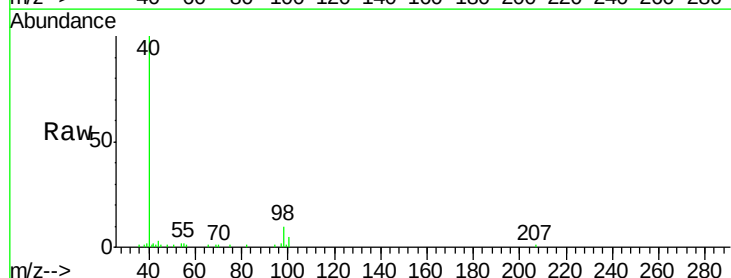
Acq: 25 Mar 2019 11:29

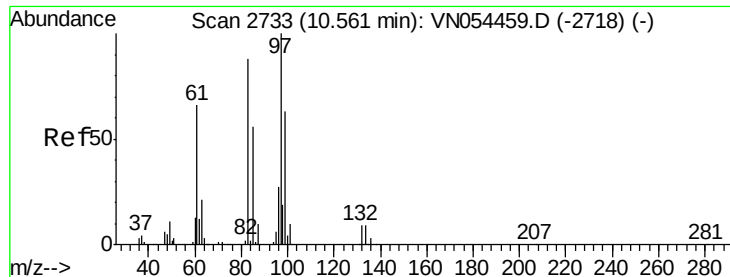
Tgt Ion: 75 Resp: 95

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.8#

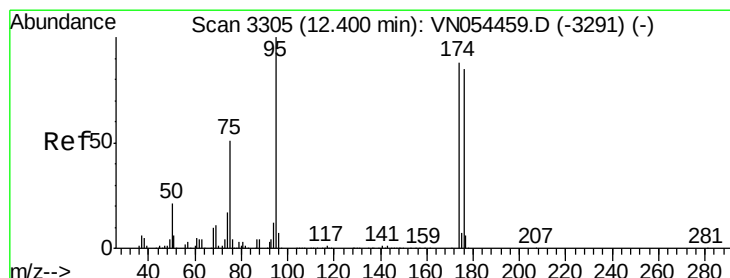
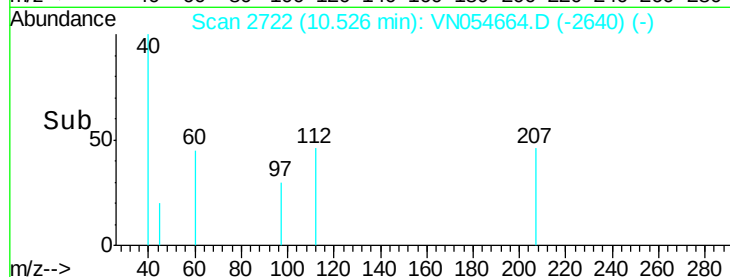
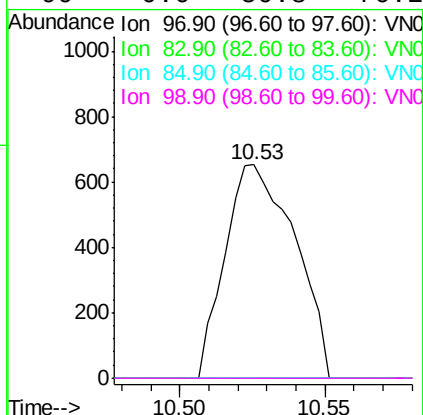
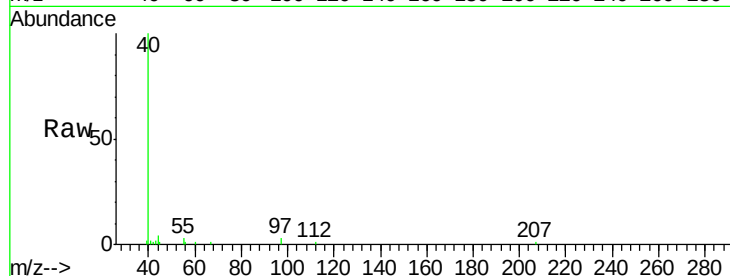




#55
 1,1,2-Trichloroethane
 Concen: 0.222 ug/l
 RT: 10.53 min Scan# 2722
 Delta R.T. -0.04 min
 Lab File: VN054664.D
 Acq: 25 Mar 2019 11:29

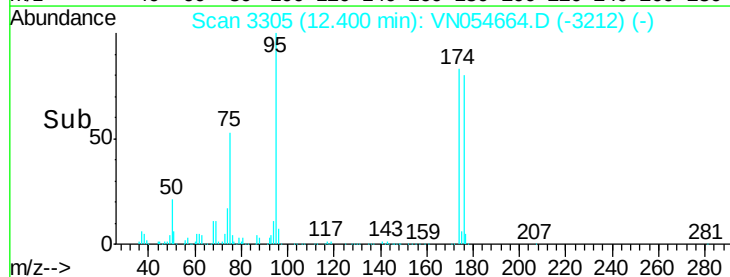
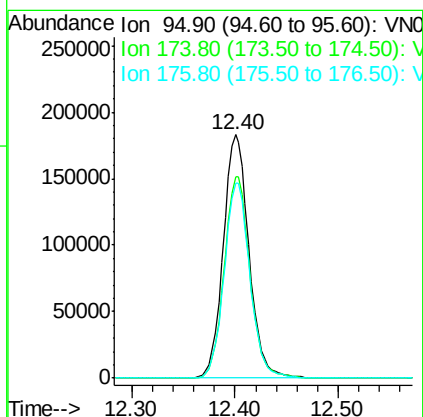
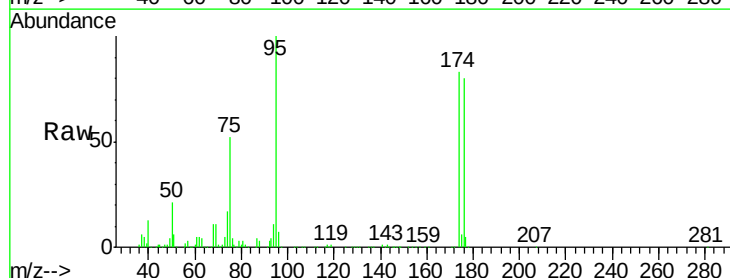
Instrument :
 MSVOA_N
 ClientSampled :
 CS-5

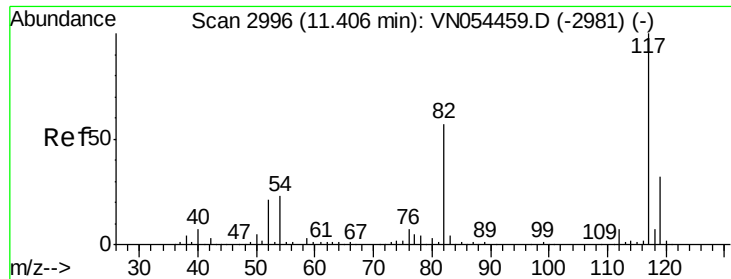
Tot Ion	97	Resp	1091
Ion	Ratio	Lower	Upper
97	100		
83	0.0	66.6	100.0#
85	0.0	44.4	66.6#
99	0.0	50.8	76.2#



#62
 4-Bromofluorobenzene
 Concen: 46.356 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.00 min
 Lab File: VN054664.D
 Acq: 25 Mar 2019 11:29

Tgt Ion	95	Resp	317590
Ion	Ratio	Lower	Upper
95	100		
174	83.0	0.0	191.0
176	80.3	0.0	187.4

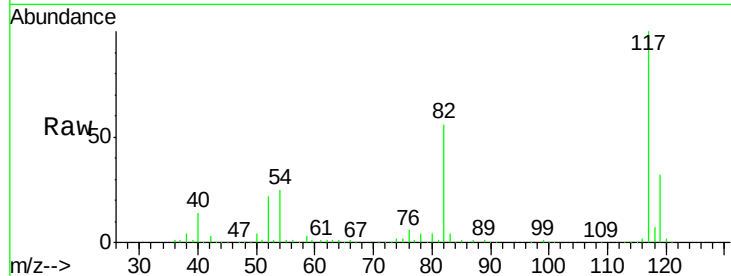




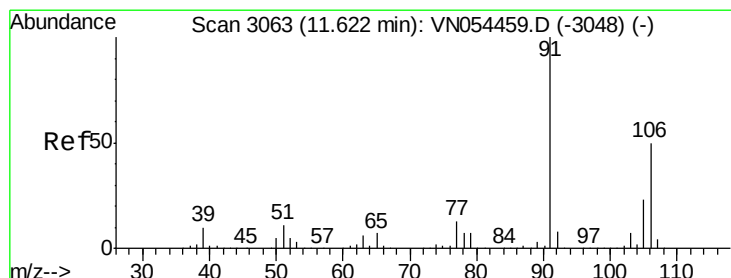
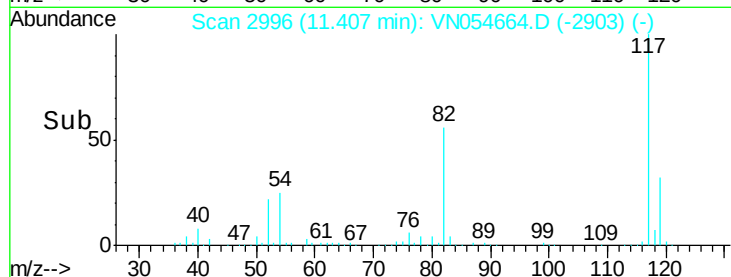
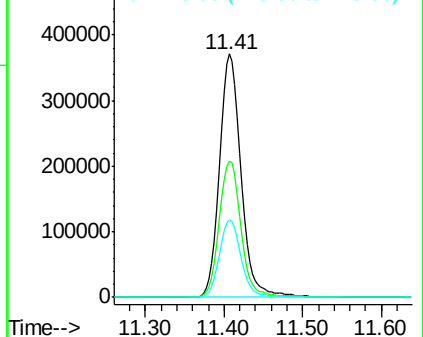
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

Instrument :
MSVOA_N
ClientSampled :
CS-5

Tot Ion:117 Resp: 699937
Ion Ratio Lower Upper
117 100
82 56.1 40.0 60.0
119 31.9 25.8 38.6

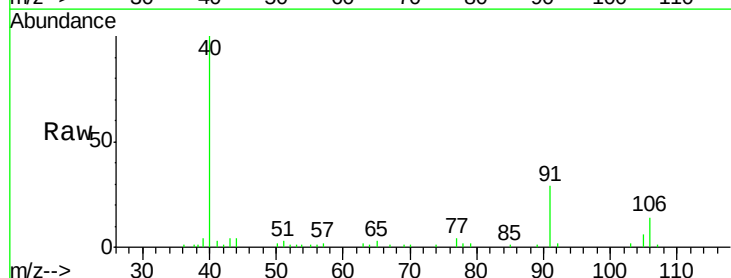


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

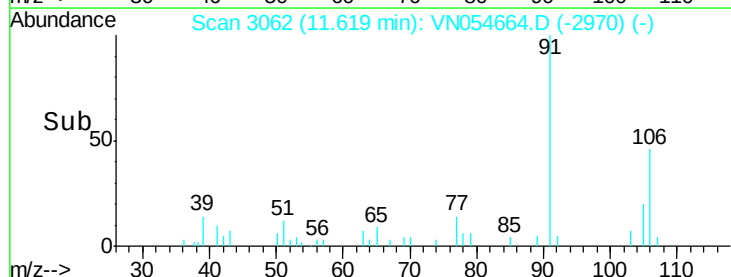
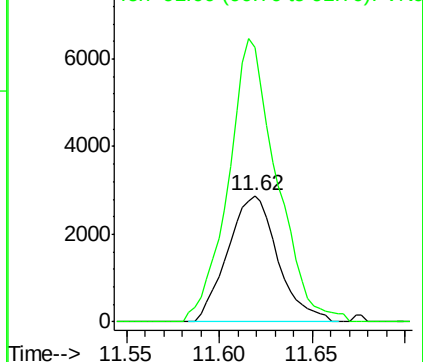


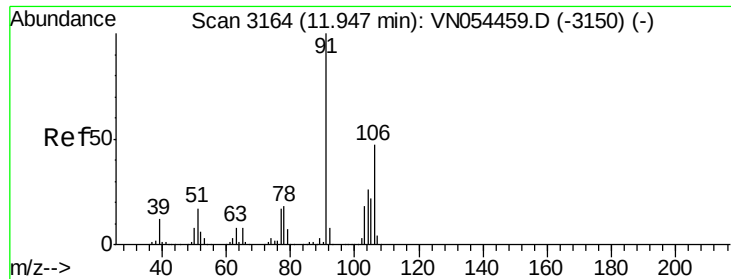
#68
m/p-Xylenes
Concen: 0.568 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

Tgt Ion:106 Resp: 5410
Ion Ratio Lower Upper
106 100
91 216.9 159.4 239.2



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

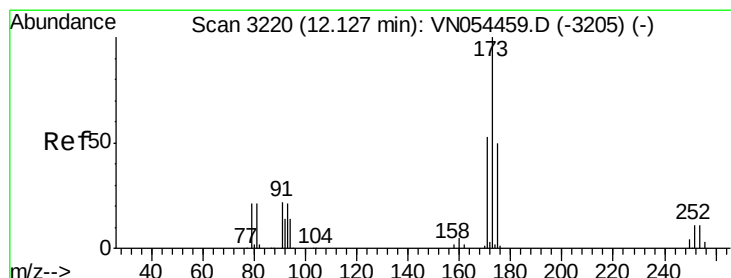
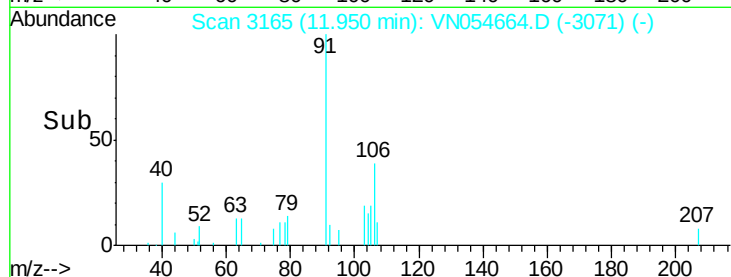
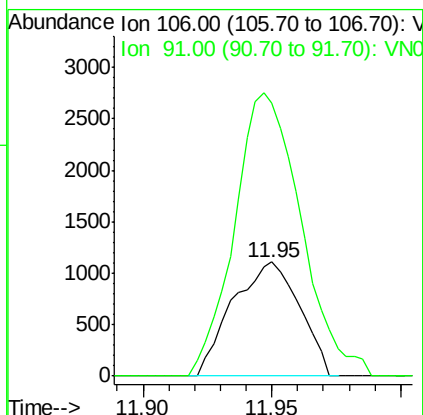
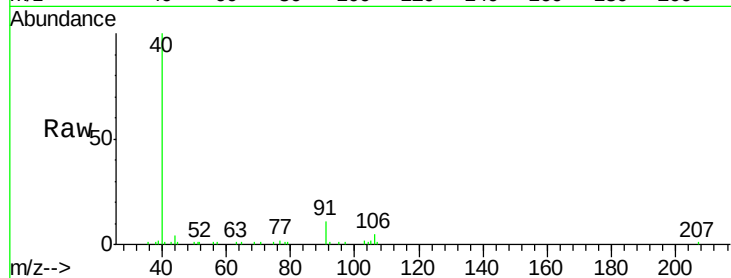




#69
o-Xylene
Concen: 0.215 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

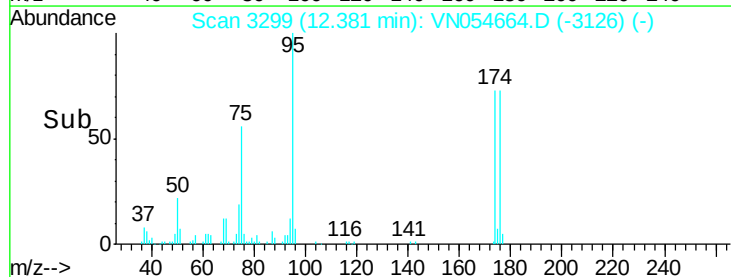
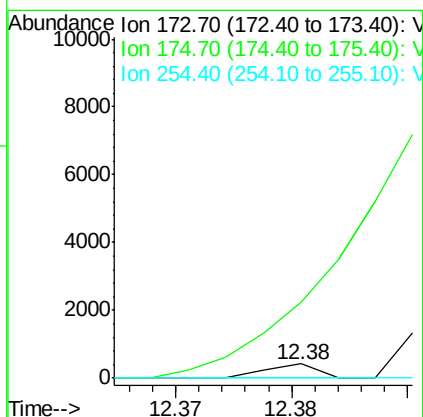
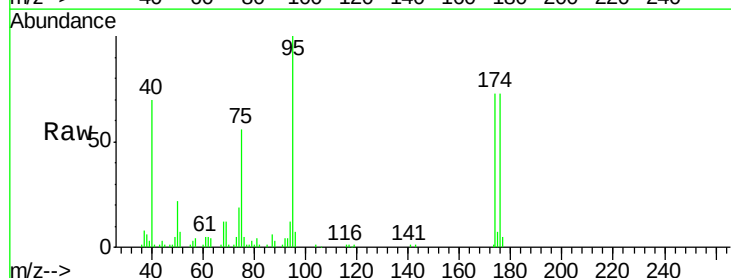
Instrument :
MSVOA_N
ClientSampled :
CS-5

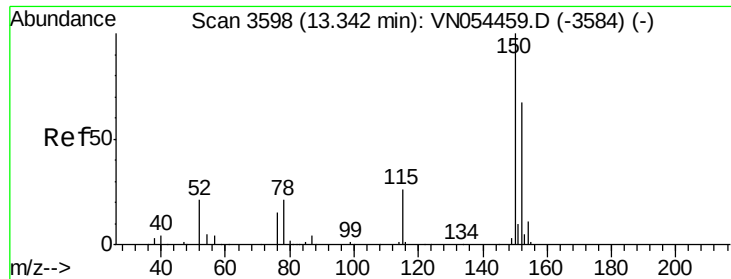
Tot Ion:106 Resp: 2002
Ion Ratio Lower Upper
106 100
91 247.0 105.7 317.1



#71
Bromoform
Concen: 2.255 ug/l
RT: 12.38 min Scan# 3299
Delta R.T. 0.25 min
Lab File: VN054664.D
Acq: 25 Mar 2019 11:29

Tgt Ion:173 Resp: 129
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampleId :

CS-5

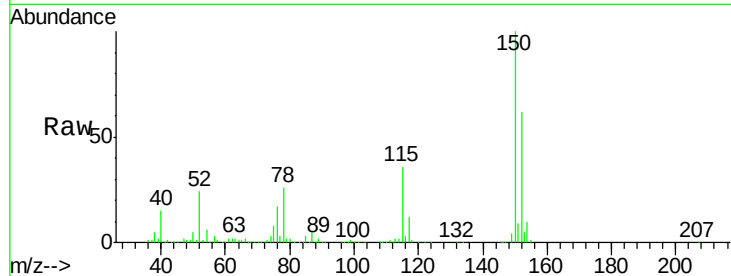
Tot Ion:152 Resp: 278399

Ion Ratio Lower Upper

152 100

115 57.6 27.2 81.6

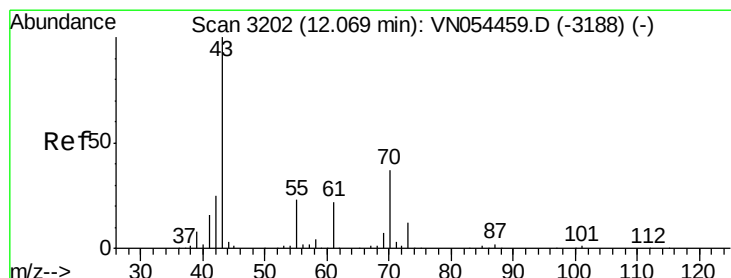
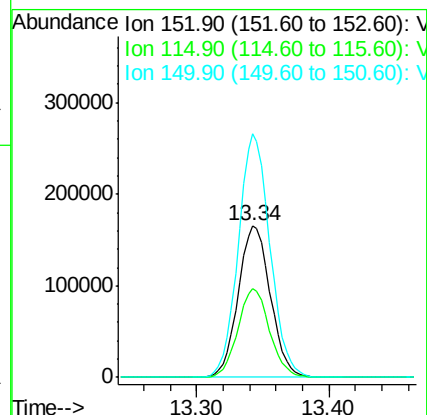
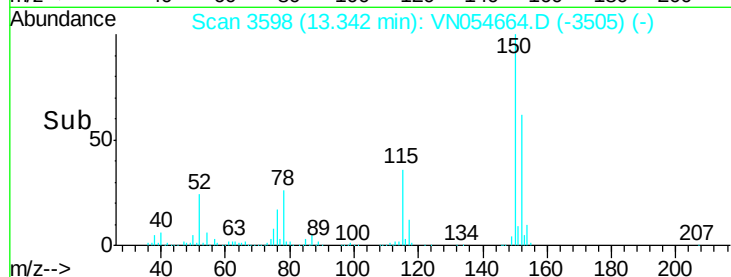
150 158.4 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 0.238 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Tgt Ion: 43 Resp: 1538

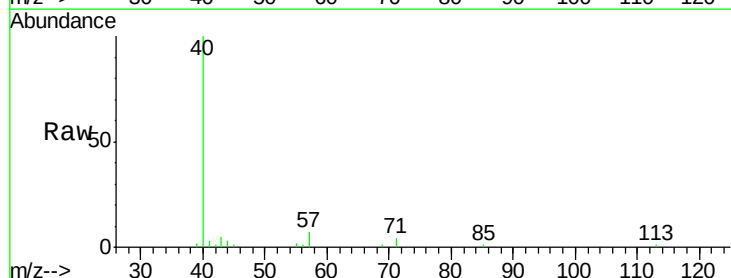
Ion Ratio Lower Upper

43 100

70 0.0 35.4 53.0#

55 22.9 19.8 29.6

61 0.0 19.8 29.6#

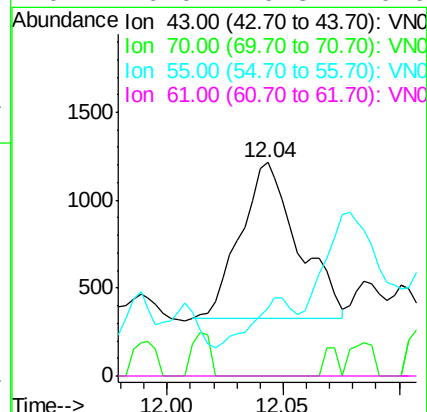
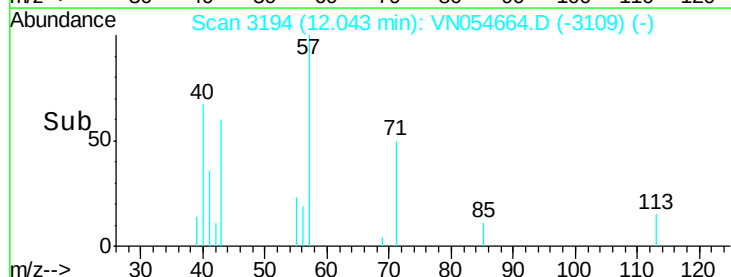


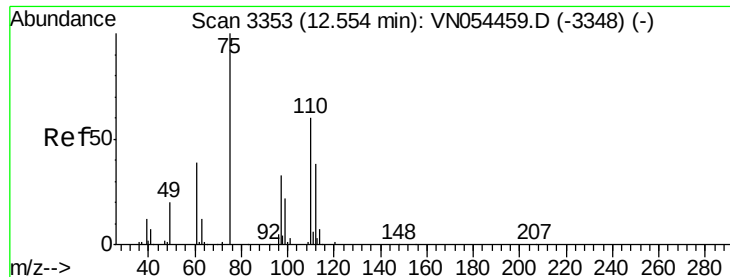
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 37.451 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

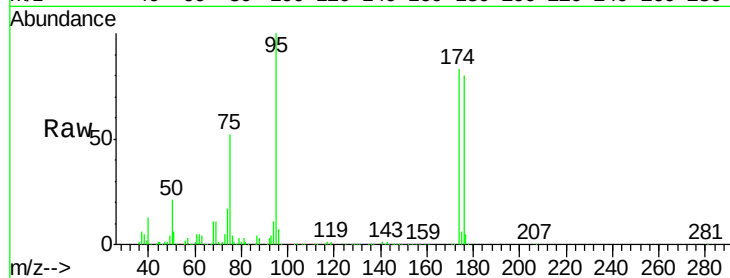
CS-5

Tot Ion: 75 Resp: 165449

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN054459.D (-3348) (-)

12.40

100000

80000

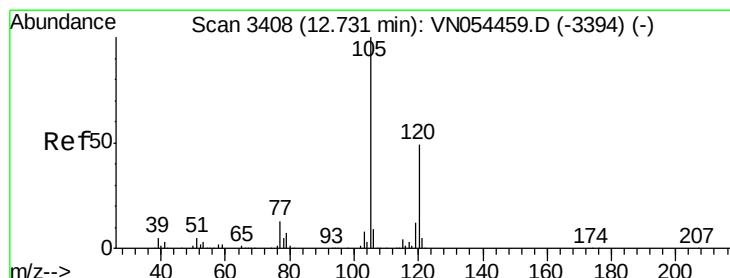
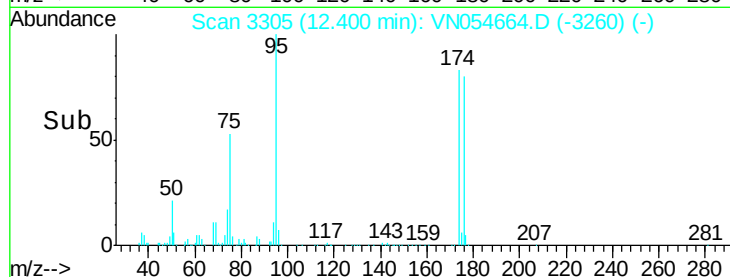
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.227 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN054664.D

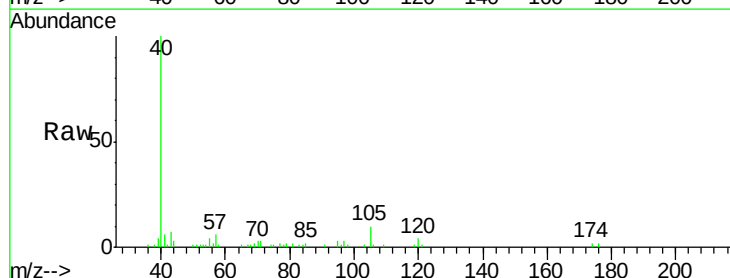
Acq: 25 Mar 2019 11:29

Tgt Ion: 105 Resp: 4169

Ion Ratio Lower Upper

105 100

120 44.8 25.0 75.0



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3394) (-)

12.73

3000

2500

2000

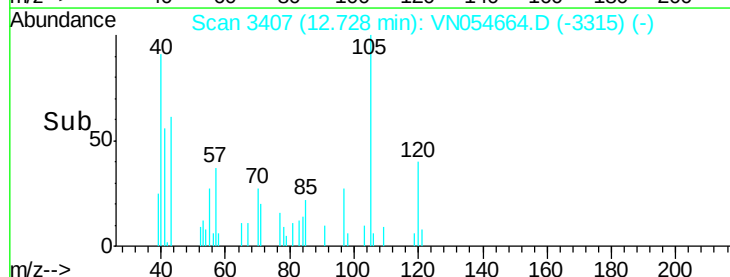
1500

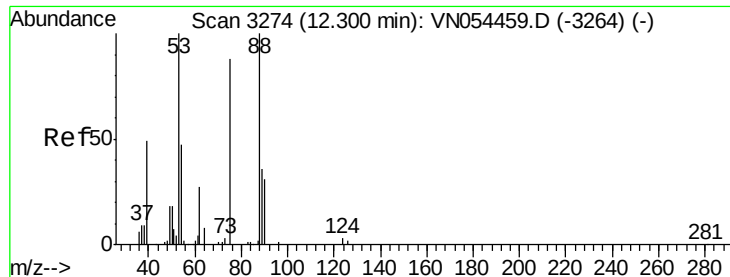
1000

500

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 124.088 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

CS-5

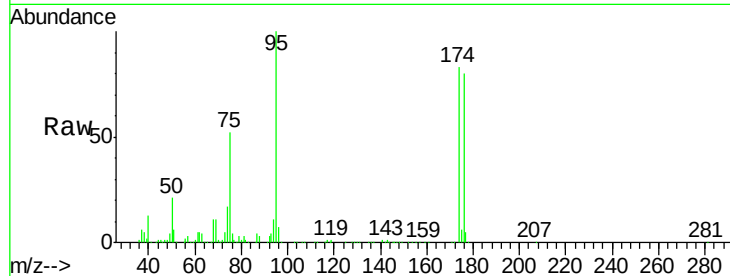
Tot Ion: 75 Resp: 165449

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

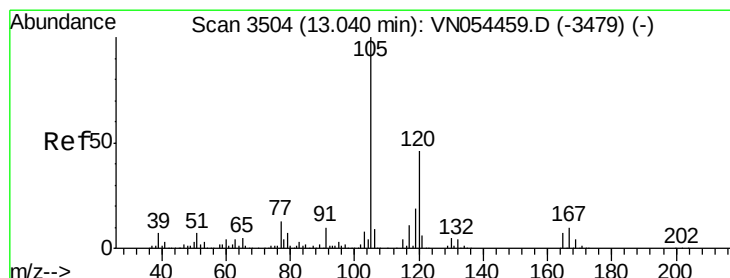
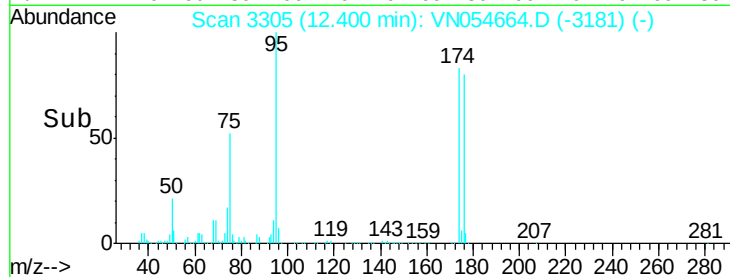
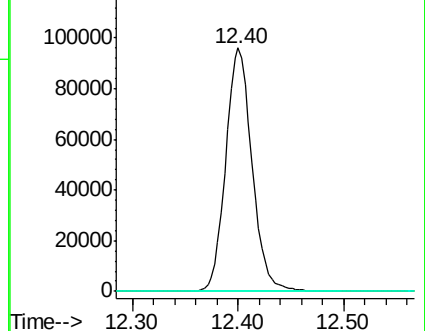
89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VN054459.D (-3264) (-)

Ion 53.00 (52.70 to 53.70): VN054459.D (-3264) (-)

Ion 88.90 (88.60 to 89.60): VN054459.D (-3264) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.385 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN054664.D

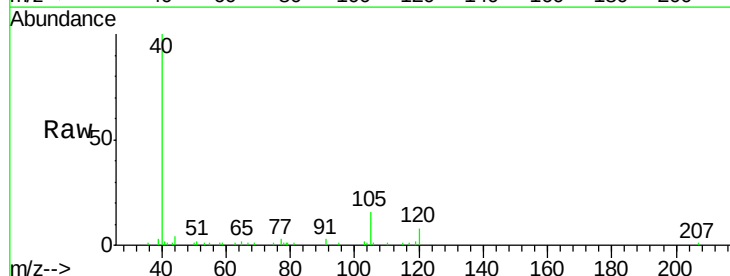
Acq: 25 Mar 2019 11:29

Tgt Ion: 105 Resp: 6945

Ion Ratio Lower Upper

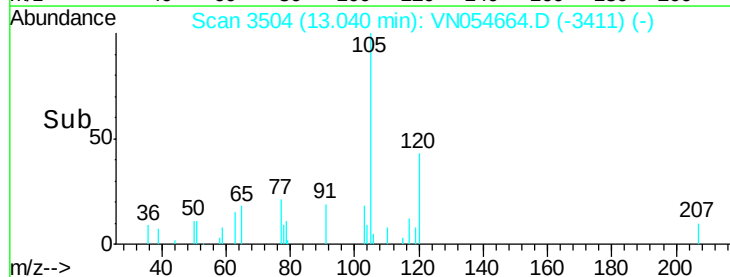
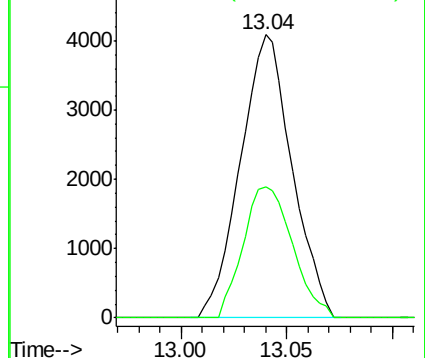
105 100

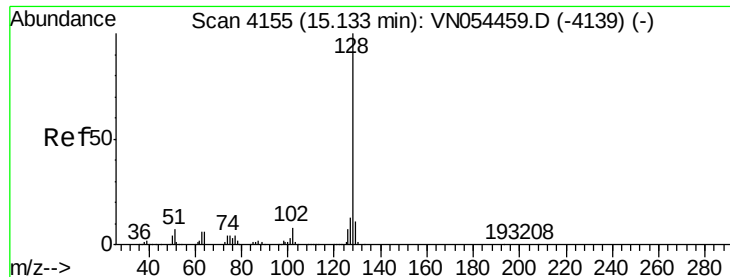
120 44.3 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): VN054459.D (-3479) (-)

Ion 120.00 (119.70 to 120.70): VN054459.D (-3479) (-)





#95

Naphthalene

Concen: 1.883 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

Instrument :

MSVOA_N

ClientSampled :

CS-5

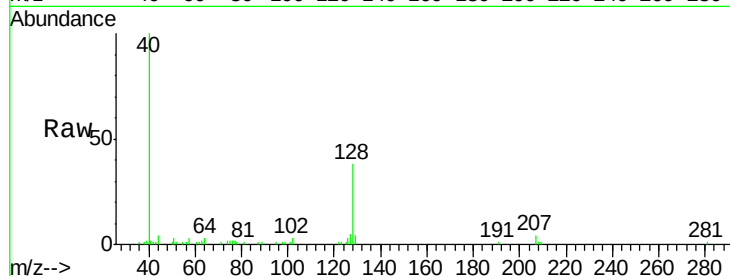
Tot Ion:128 Resp: 18701

Ion Ratio Lower Upper

128 100

127 14.5 10.1 15.1

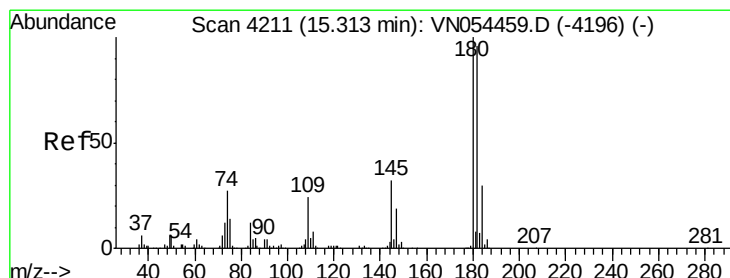
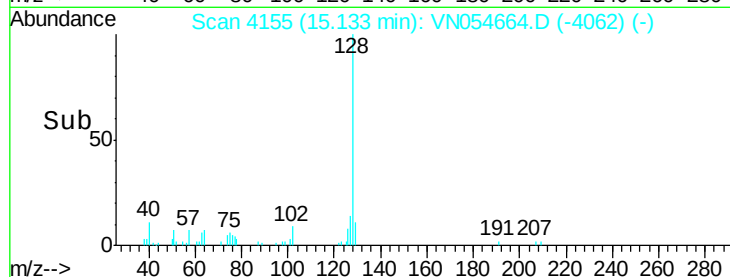
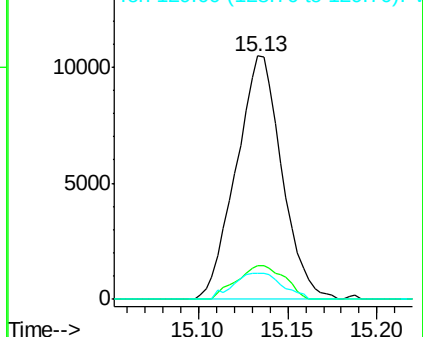
129 11.4 8.7 13.1



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: 0.237 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054664.D

Acq: 25 Mar 2019 11:29

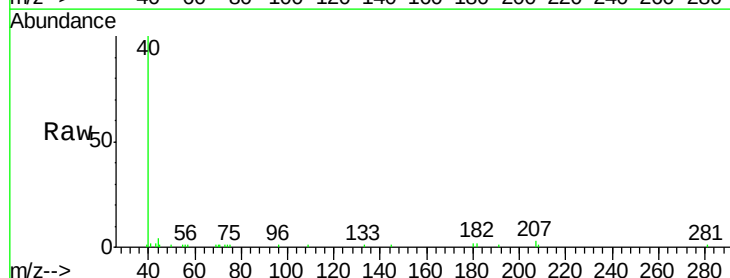
Tgt Ion:180 Resp: 1051

Ion Ratio Lower Upper

180 100

182 51.0 47.5 142.6

145 13.0 14.8 44.3#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

