

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN030119\
 Data File : VN054023.D
 Acq On : 1 Mar 2019 12:24
 Operator : JC/SP
 Sample : K1663-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Mar 01 23:45:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 01 11:11:48 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	117896	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	610589	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	499211	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	249069	30.08	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.27%
60) 4-Bromofluorobenzene	12.40	95	179508	23.49	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	78.30%
63) Toluene-d8	10.09	98	730557	30.42	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.40%

Target Compounds

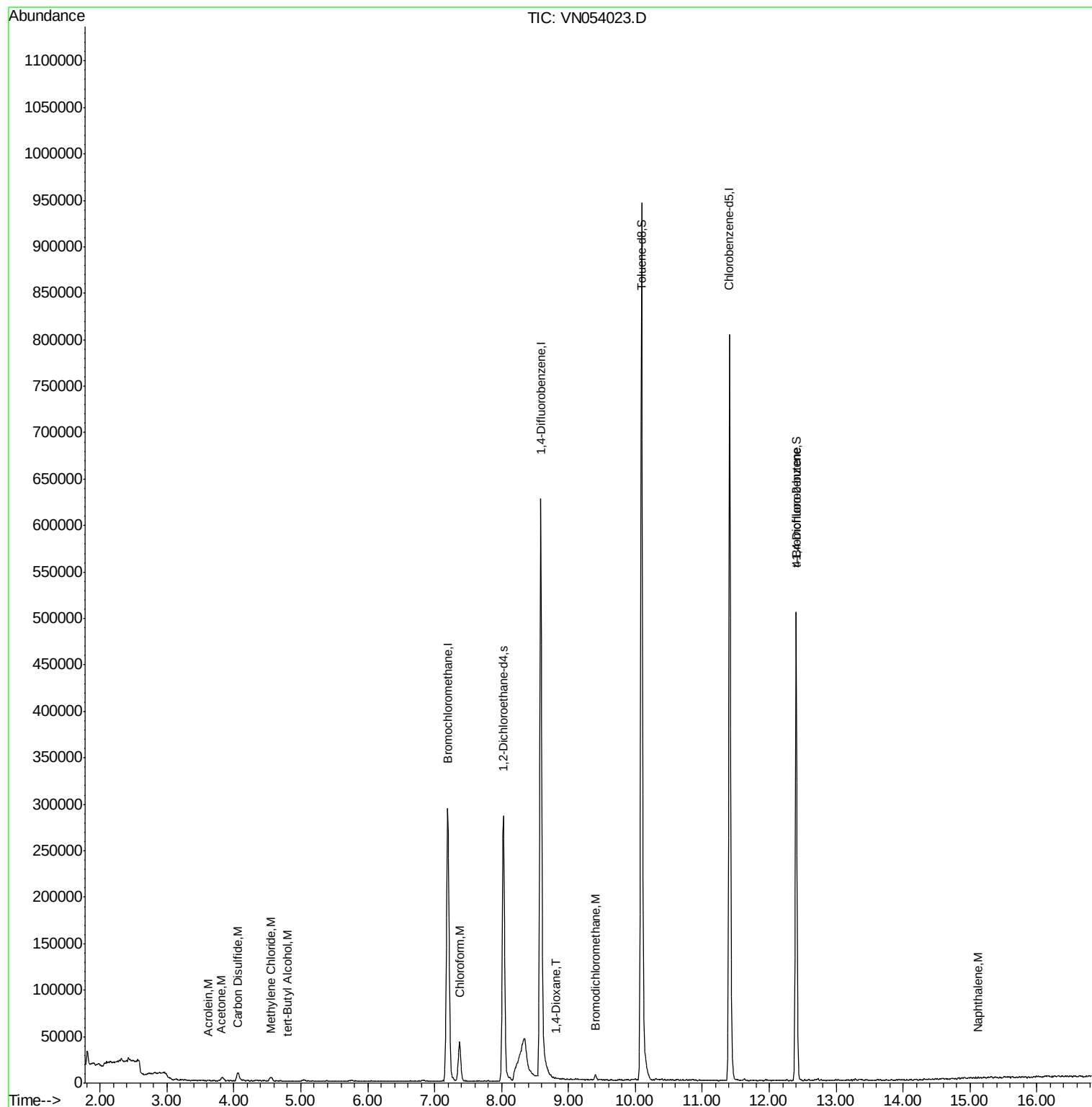
					Ovalue	
13) Acrolein	3.61	56	316	24.061	ug/l #	14
15) Acetone	3.82	58	871	1.148	ug/l #	39
16) Carbon Disulfide	4.06	76	5057	0.240	ug/l #	87
18) Methylene Chloride	4.55	84	2572	0.343	ug/l	98
23) tert-Butyl Alcohol	4.79	59	95	0.201	ug/l #	100
25) Chloroform	7.37	83	45808	3.497	ug/l	98
41) Bromodichloromethane	9.40	83	4230	0.447	ug/l	87
45) 1,4-Dioxane	8.81	88	64	32.444	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.40	75	86947	46.671	ug/l #	11
91) Naphthalene	15.14	128	1446	7.093	ug/l #	70

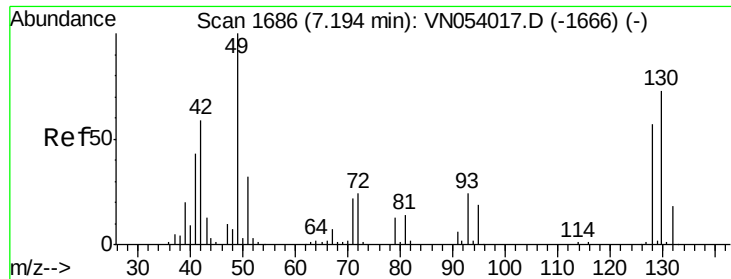
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 01 23:45:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA N\METHODS\624N030119W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Mar 01 11:11:48 2019
Response via : Initial Calibration

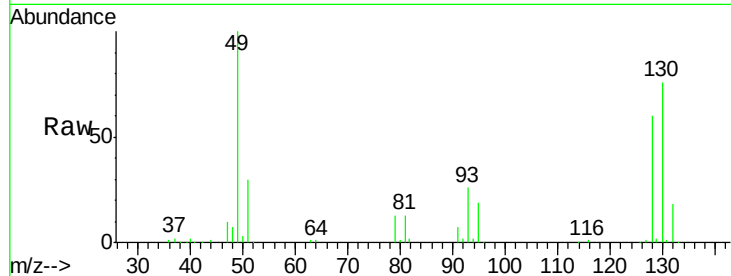




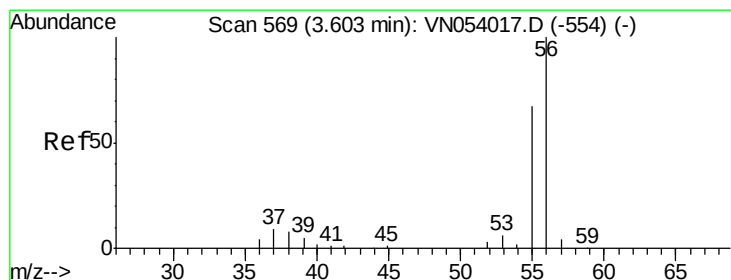
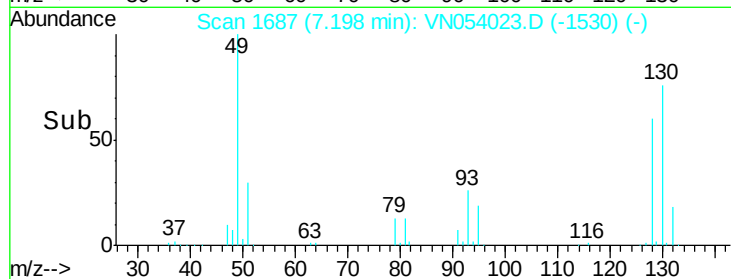
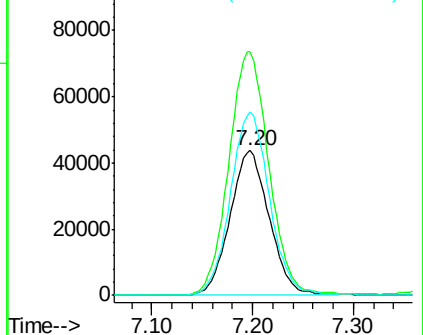
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN054023.D
Acq: 1 Mar 2019 12:24

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tot Ion:128 Resp: 117896
Ion Ratio Lower Upper
128 100
49 171.2 0.0 431.8
130 126.4 0.0 317.0

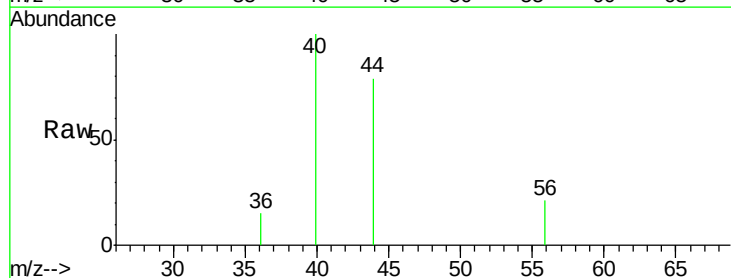


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V

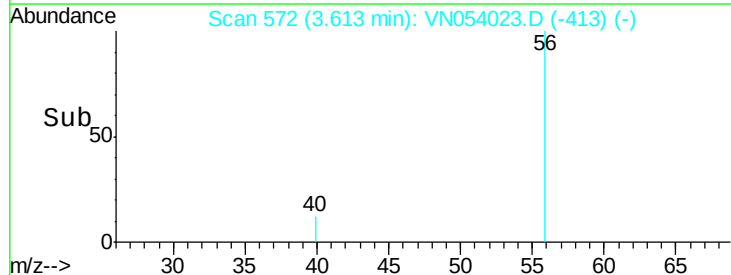
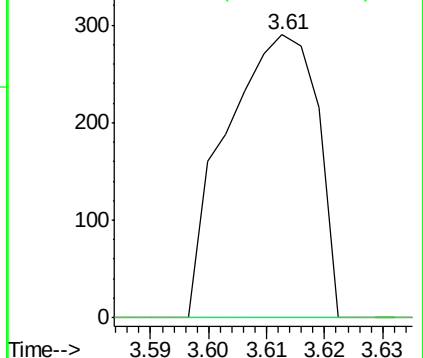


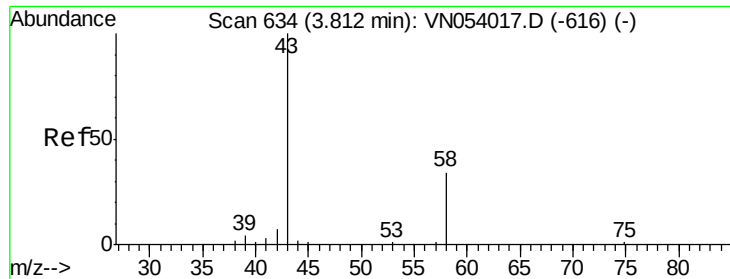
#13
Acrolein
Concen: 24.061 ug/l
RT: 3.61 min Scan# 572
Delta R.T. 0.01 min
Lab File: VN054023.D
Acq: 1 Mar 2019 12:24

Tgt Ion: 56 Resp: 316
Ion Ratio Lower Upper
56 100
55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): V
Ion 55.00 (54.70 to 55.70): V





#15

Acetone

Concen: 1.148 ug/l

RT: 3.82 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

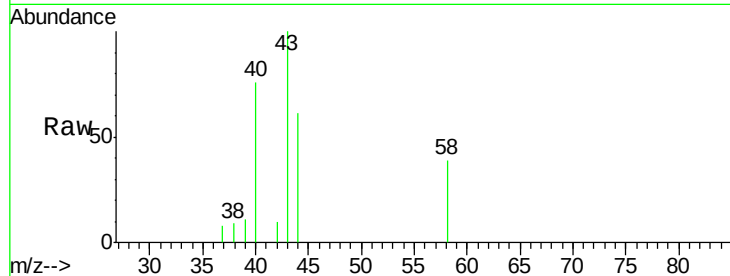
SPDES-1

Tot Ion: 58 Resp: 871

Ion Ratio Lower Upper

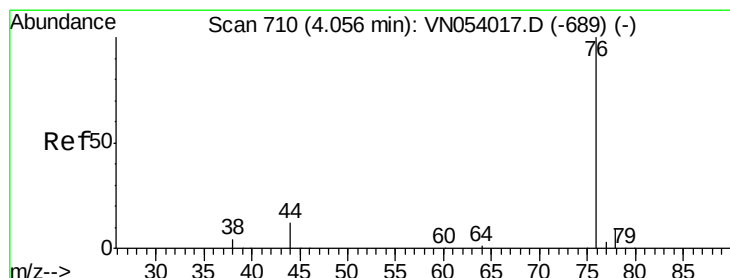
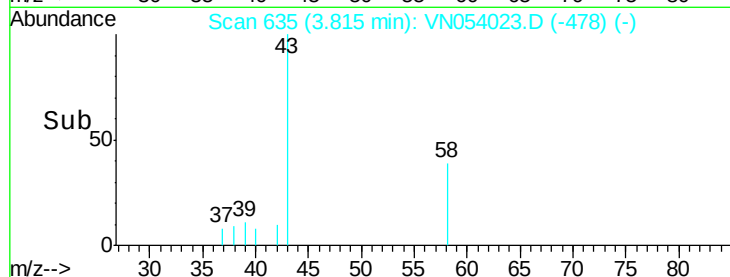
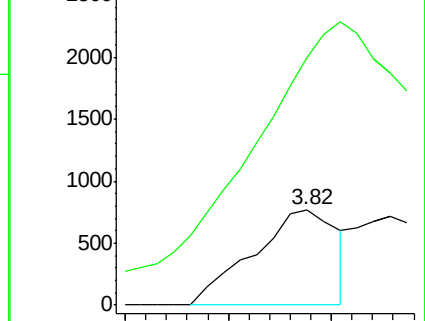
58 100

43 184.6 243.6 365.4#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 0.240 ug/l

RT: 4.06 min Scan# 712

Delta R.T. 0.01 min

Lab File: VN054023.D

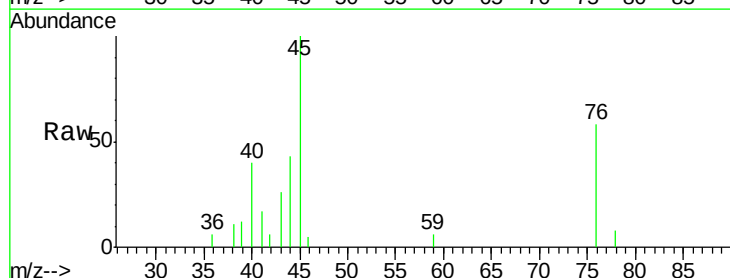
Acq: 1 Mar 2019 12:24

Tgt Ion: 76 Resp: 5057

Ion Ratio Lower Upper

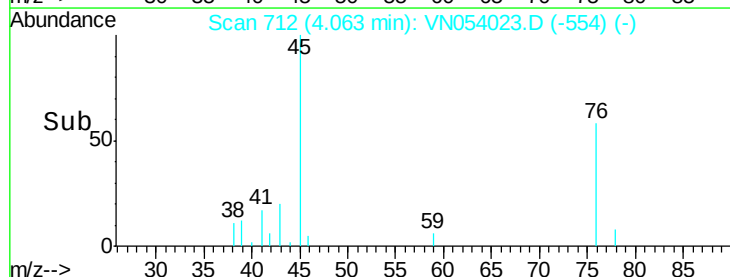
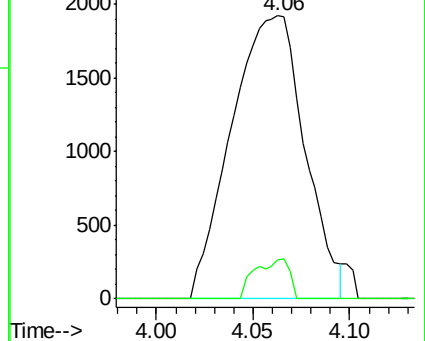
76 100

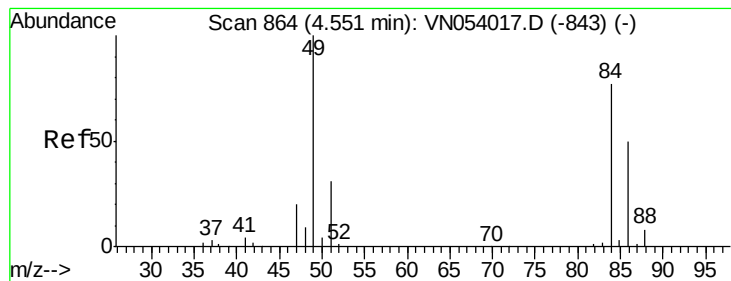
78 13.6 7.3 10.9#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#18

Methvlene Chloride

Concen: 0.343 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

Instrument :

MSVOA_N

ClientSampled :

SPDES-1

Tot Ion: 84 Resp: 2572

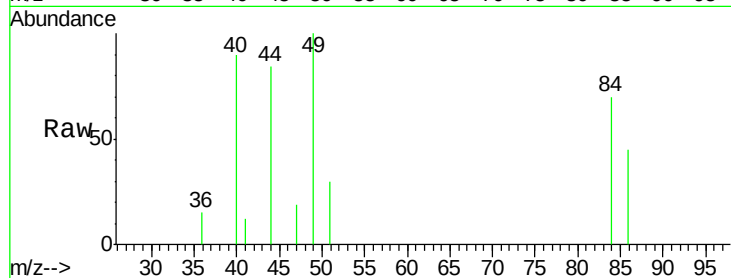
Ion Ratio Lower Upper

84 100

49 125.6 101.4 152.0

51 43.0 31.7 47.5

86 64.6 50.1 75.1

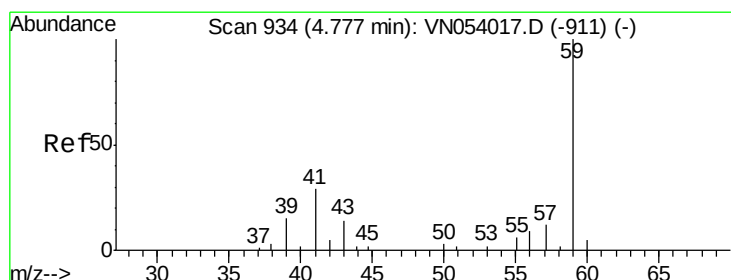
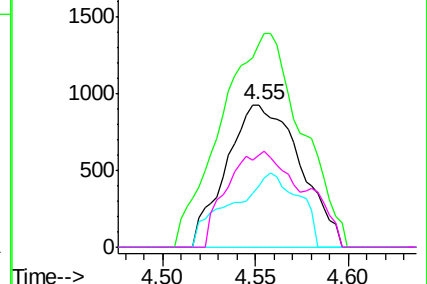
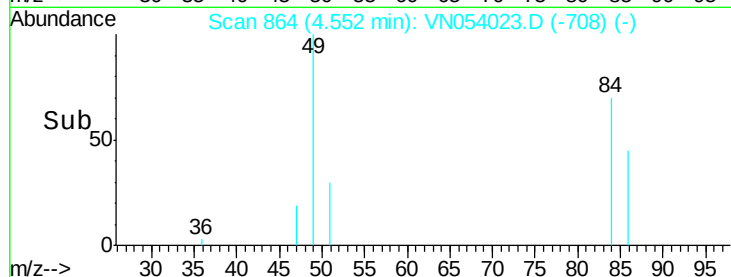


Abundance Ion 84.00 (83.70 to 84.70): VN0

Ion 49.00 (48.70 to 49.70): VN0

Ion 51.00 (50.70 to 51.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



#23

tert-Butyl Alcohol

Concen: 0.201 ug/l

RT: 4.79 min Scan# 937

Delta R.T. 0.01 min

Lab File: VN054023.D

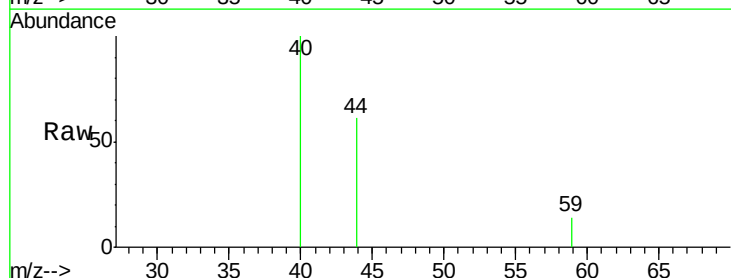
Acq: 1 Mar 2019 12:24

Tgt Ion: 59 Resp: 95

Ion Ratio Lower Upper

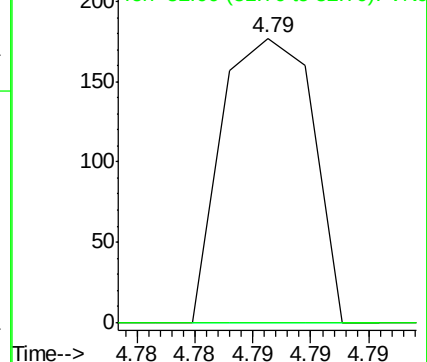
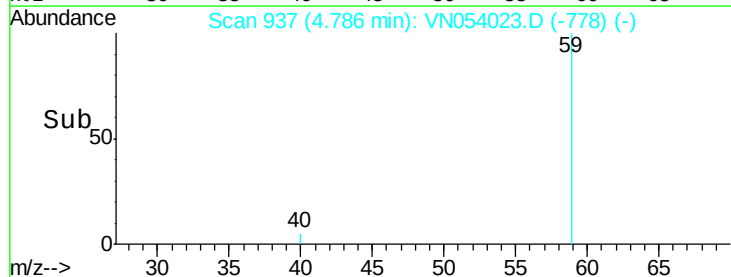
59 100

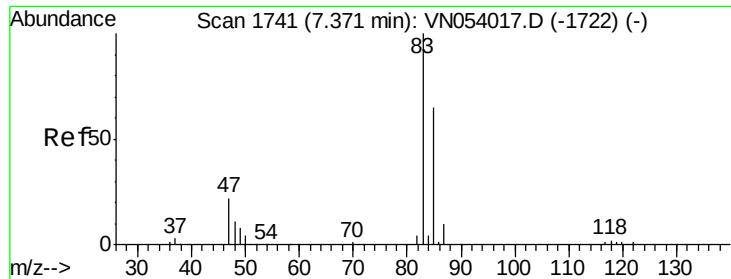
52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

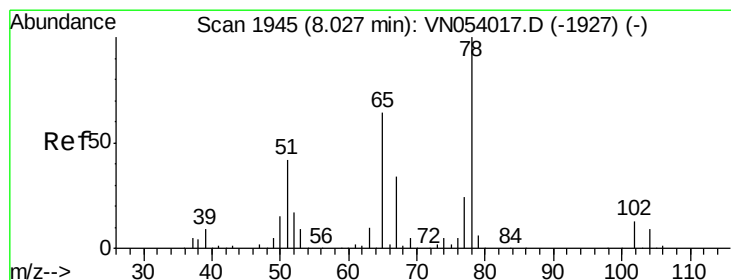
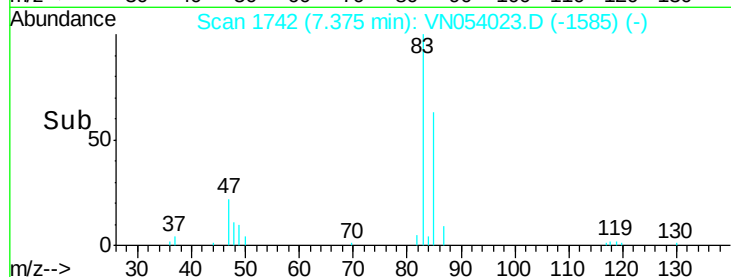
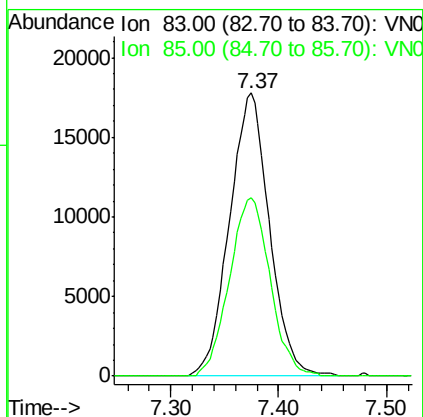
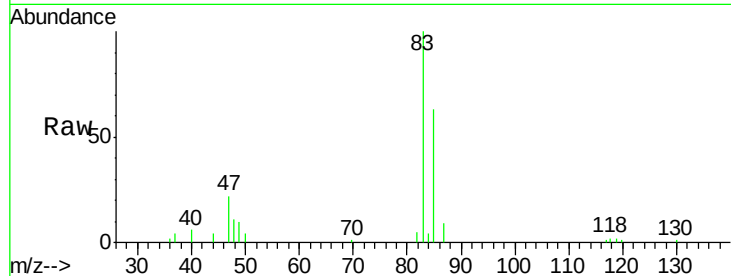




#25
Chloroform
Concen: 3.497 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054023.D
Acq: 1 Mar 2019 12:24

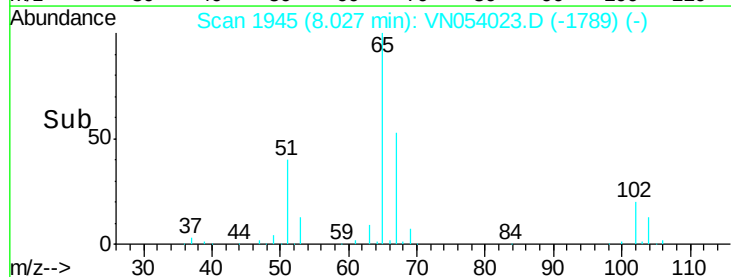
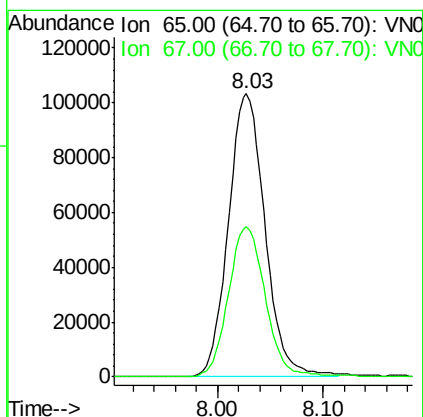
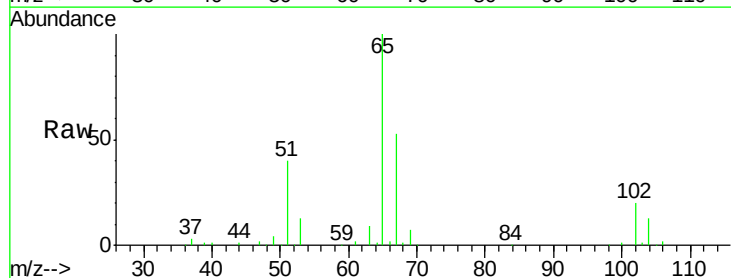
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

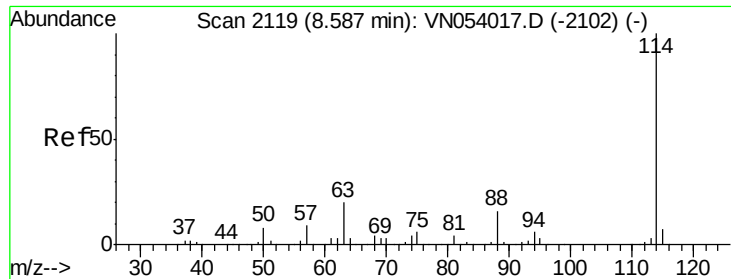
Tot Ion: 83 Resp: 45808
Ion Ratio Lower Upper
83 100
85 62.9 51.7 77.5



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054023.D
Acq: 1 Mar 2019 12:24

Tgt Ion: 65 Resp: 249069
Ion Ratio Lower Upper
65 100
67 53.5 44.6 66.8

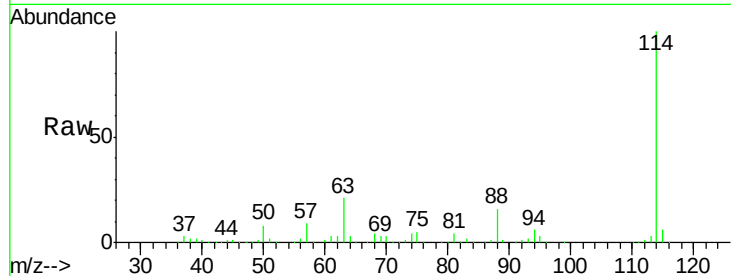




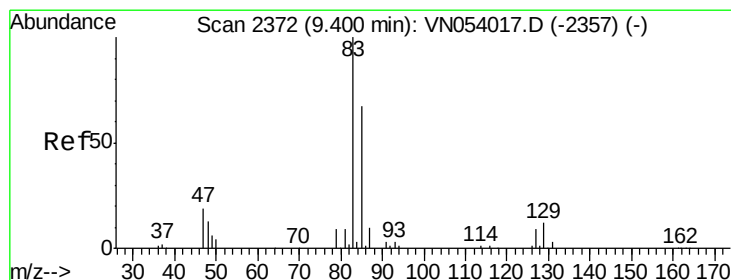
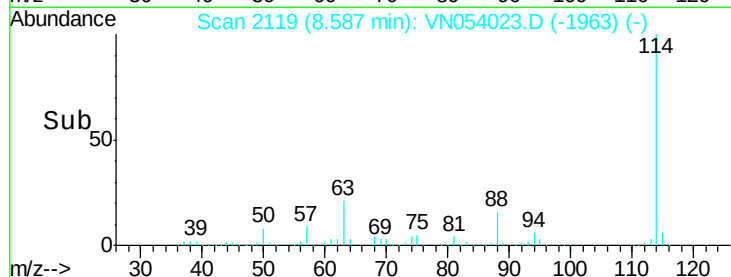
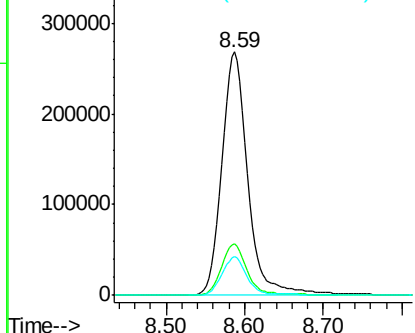
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054023.D
 Acq: 1 Mar 2019 12:24

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion:114 Resp: 610589
 Ion Ratio Lower Upper
 114 100
 63 20.8 16.9 25.3
 88 15.2 12.8 19.2

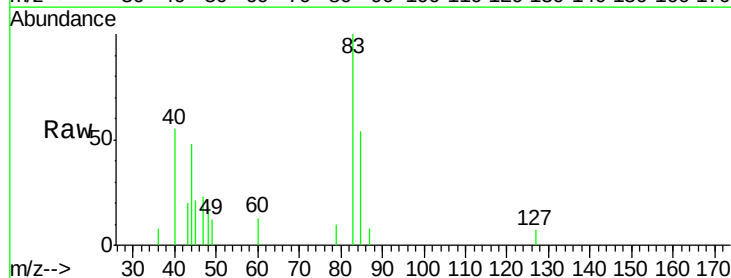


Abundance Ion 114.00 (113.70 to 114.70): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 88.00 (87.70 to 88.70): VN

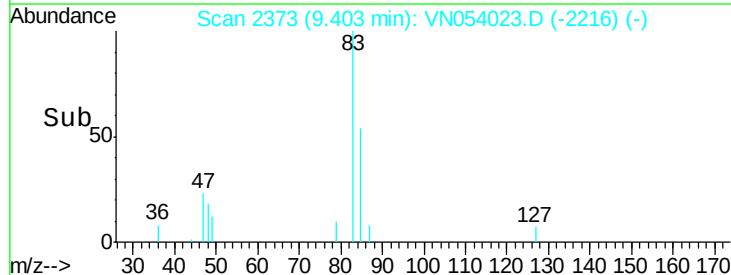
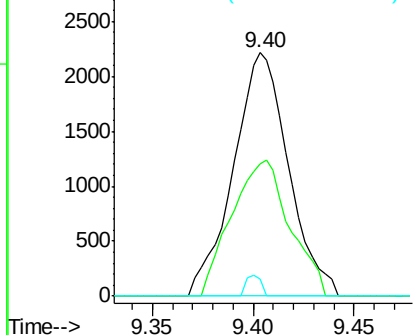


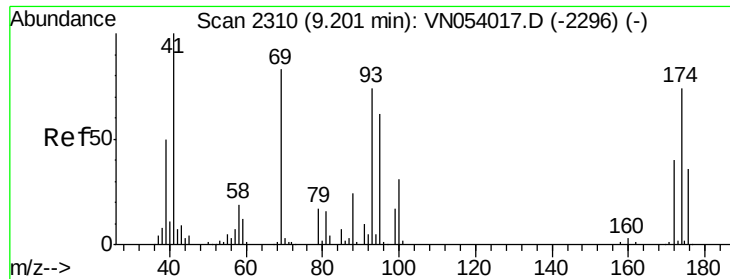
#41
 Bromodichloromethane
 Concen: 0.447 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN054023.D
 Acq: 1 Mar 2019 12:24

Tgt Ion: 83 Resp: 4230
 Ion Ratio Lower Upper
 83 100
 85 54.3 52.4 78.6
 127 7.1 6.6 9.8



Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 85.00 (84.70 to 85.70): VN
 Ion 127.00 (126.70 to 127.70): V





#45

1,4-Dioxane

Concen: 32.444 ug/l

RT: 8.81 min Scan# 2189

Delta R.T. -0.39 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

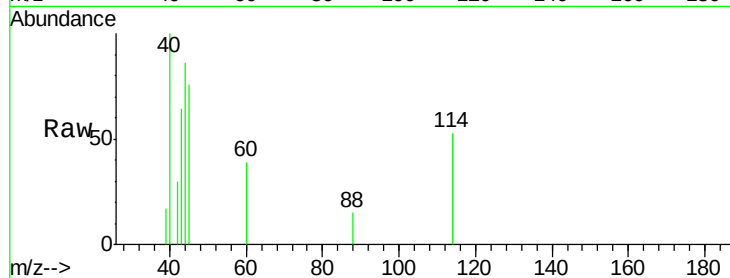
Tot Ion: 88 Resp: 64

Ion Ratio Lower Upper

88 100

43 265.6 29.5 44.3#

58 0.0 61.5 92.3#

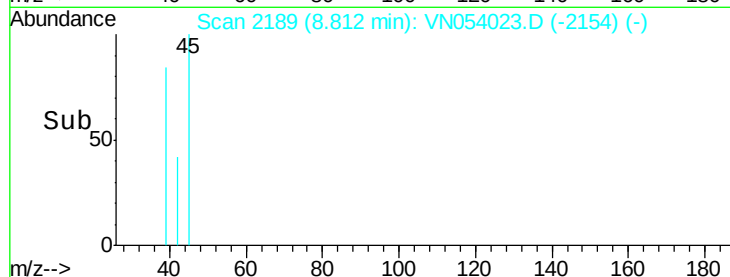


Abundance Ion 88.00 (87.70 to 88.70): VN054017.D (-2296) (-)

Ion 43.00 (42.70 to 43.70): VN054017.D (-2296) (-)

Ion 58.00 (57.70 to 58.70): VN054017.D (-2296) (-)

Time-->



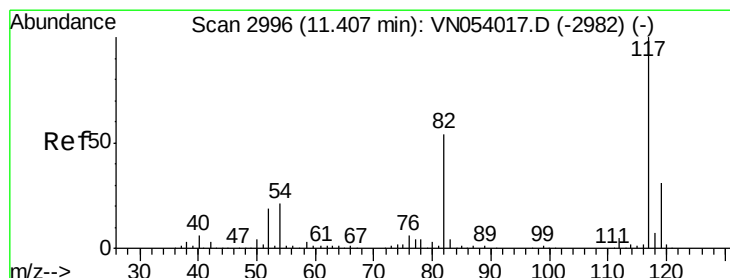
Abundance

Ion 88.00 (87.70 to 88.70): VN054017.D (-2296) (-)

Ion 43.00 (42.70 to 43.70): VN054017.D (-2296) (-)

Ion 58.00 (57.70 to 58.70): VN054017.D (-2296) (-)

Time-->



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

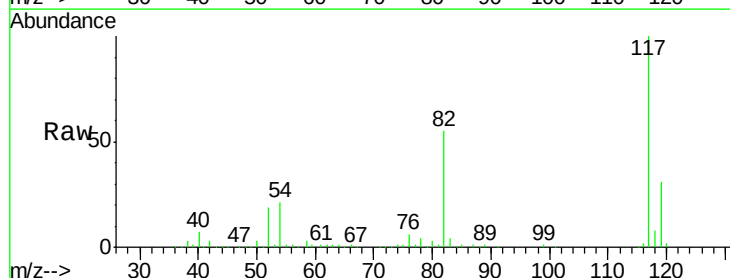
Tgt Ion: 117 Resp: 499211

Ion Ratio Lower Upper

117 100

82 55.4 44.2 66.2

119 31.7 25.4 38.2

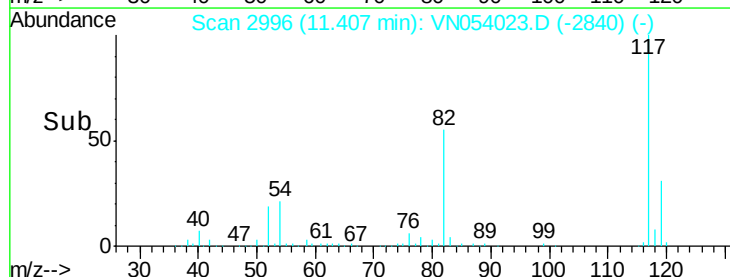


Abundance Ion 117.00 (116.70 to 117.70): VN054017.D (-2982) (-)

Ion 82.00 (81.70 to 82.70): VN054017.D (-2982) (-)

Ion 119.00 (118.70 to 119.70): VN054017.D (-2982) (-)

Time-->



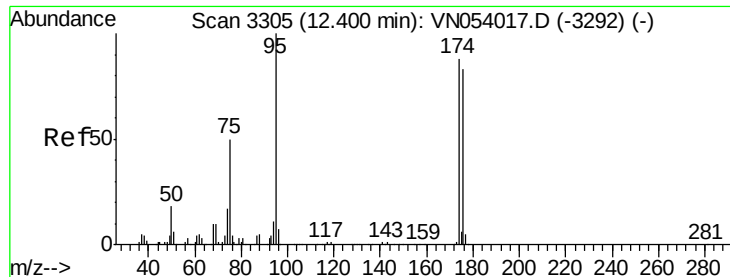
Abundance

Ion 117.00 (116.70 to 117.70): VN054017.D (-2982) (-)

Ion 82.00 (81.70 to 82.70): VN054017.D (-2982) (-)

Ion 119.00 (118.70 to 119.70): VN054017.D (-2982) (-)

Time-->



#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

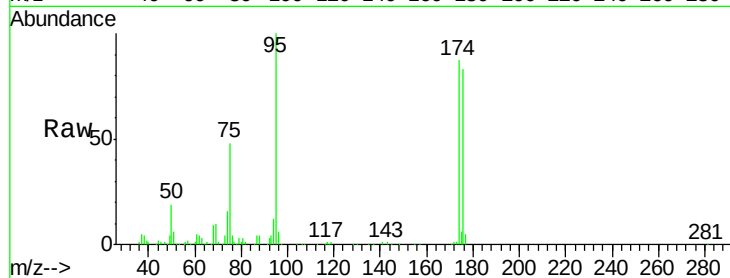
Tot Ion: 95 Resp: 179508

Ion Ratio Lower Upper

95 100

174 86.7 67.9 101.9

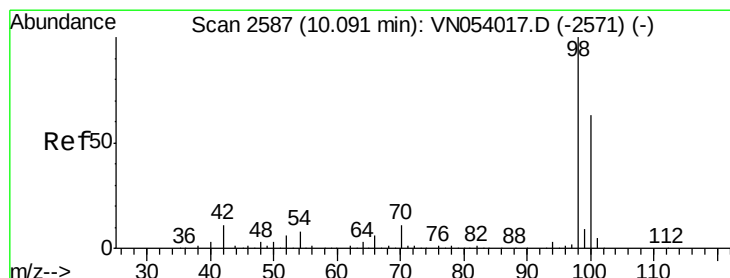
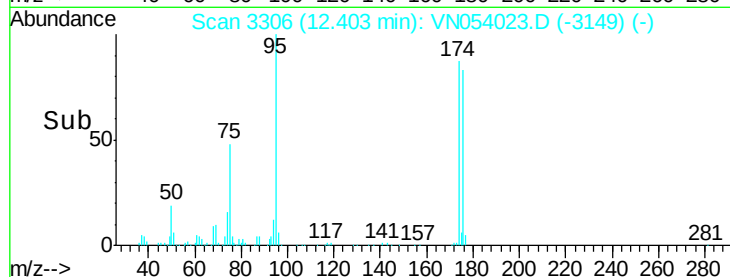
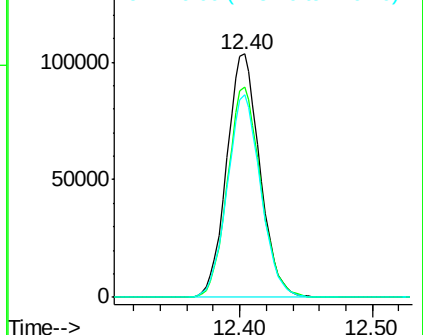
176 83.8 66.4 99.6



Abundance Ion 95.00 (94.70 to 95.70): VN054017.D (-3292) (-)

Ion 174.00 (173.70 to 174.70): VN054017.D (-3292) (-)

Ion 176.00 (175.70 to 176.70): VN054017.D (-3292) (-)



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054023.D

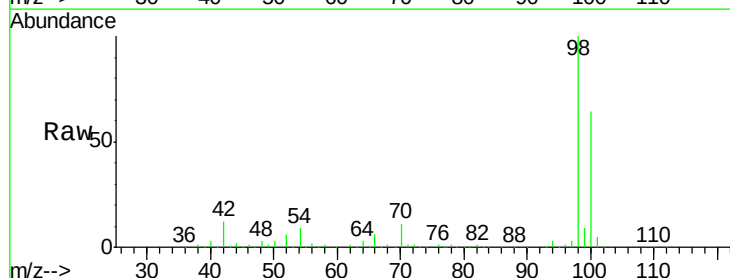
Acq: 1 Mar 2019 12:24

Tgt Ion: 98 Resp: 730557

Ion Ratio Lower Upper

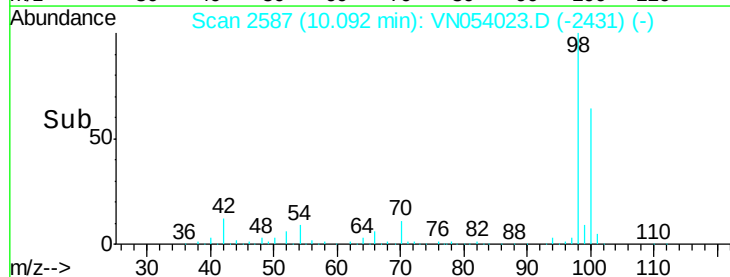
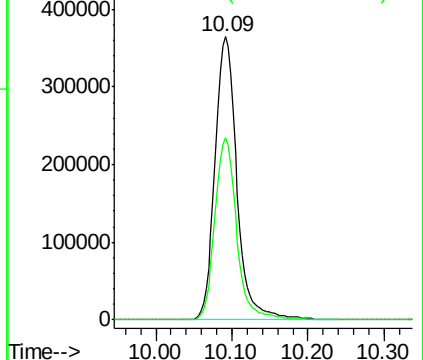
98 100

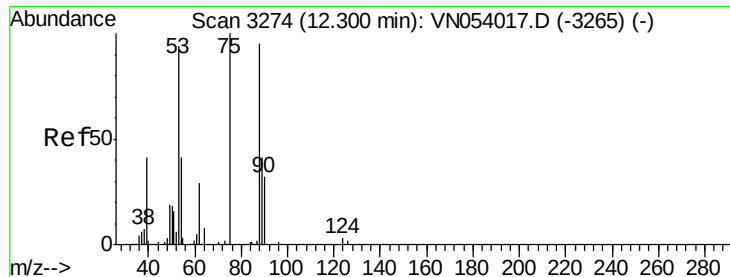
100 64.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN054017.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN054017.D (-2571) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 46.671 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

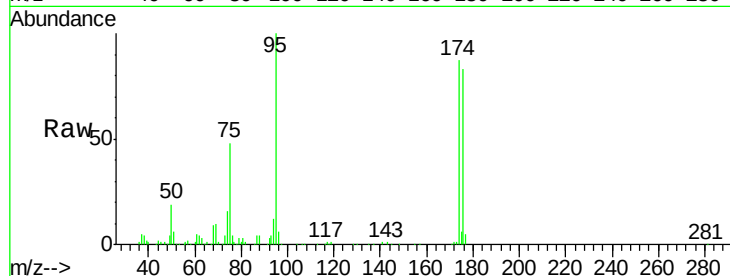
Tot Ion: 75 Resp: 86947

Ion Ratio Lower Upper

75 100

53 0.4 48.5 145.6#

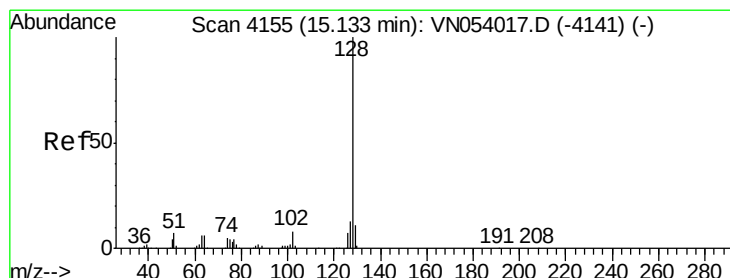
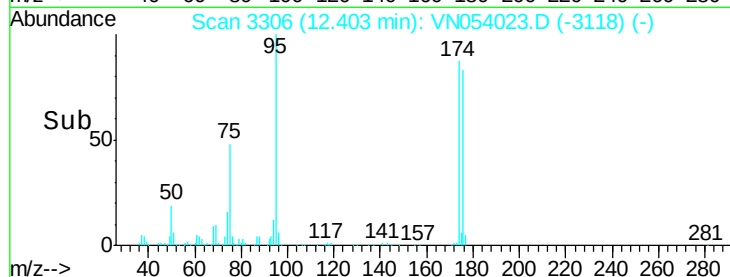
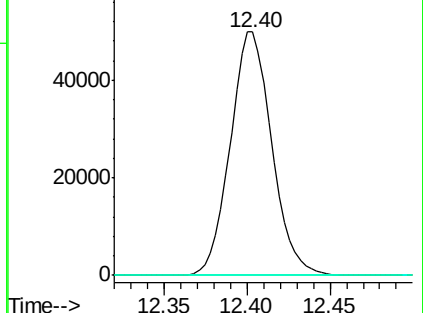
89 0.0 21.7 65.1#



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 89.00 (88.70 to 89.70): VN0



#91

Naphthalene

Concen: 7.093 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054023.D

Acq: 1 Mar 2019 12:24

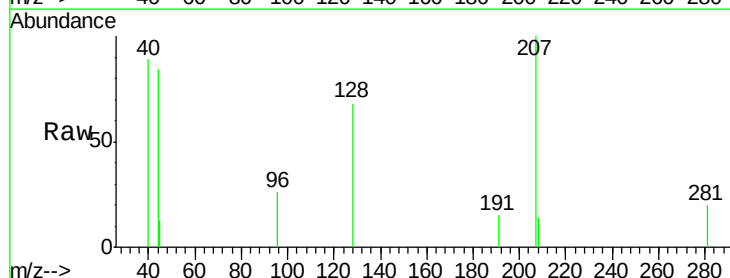
Tgt Ion: 128 Resp: 1446

Ion Ratio Lower Upper

128 100

127 0.0 9.9 14.9#

129 0.0 8.5 12.7#



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

