

Data File : VN051919.D
Acq On : 18 Oct 2018 16:28
Operator : MD\SY
Sample : J5594-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 13 Sample Multiplier: 28

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Quant Time: Oct 19 06:44:12 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Oct 12 10:23:44 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	149693	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	824332	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	663617	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	275583	30.26	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.87%
60) 4-Bromofluorobenzene	12.40	95	216232	22.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	75.33%
63) Toluene-d8	10.09	98	914529	31.74	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	105.80%

Target Compounds

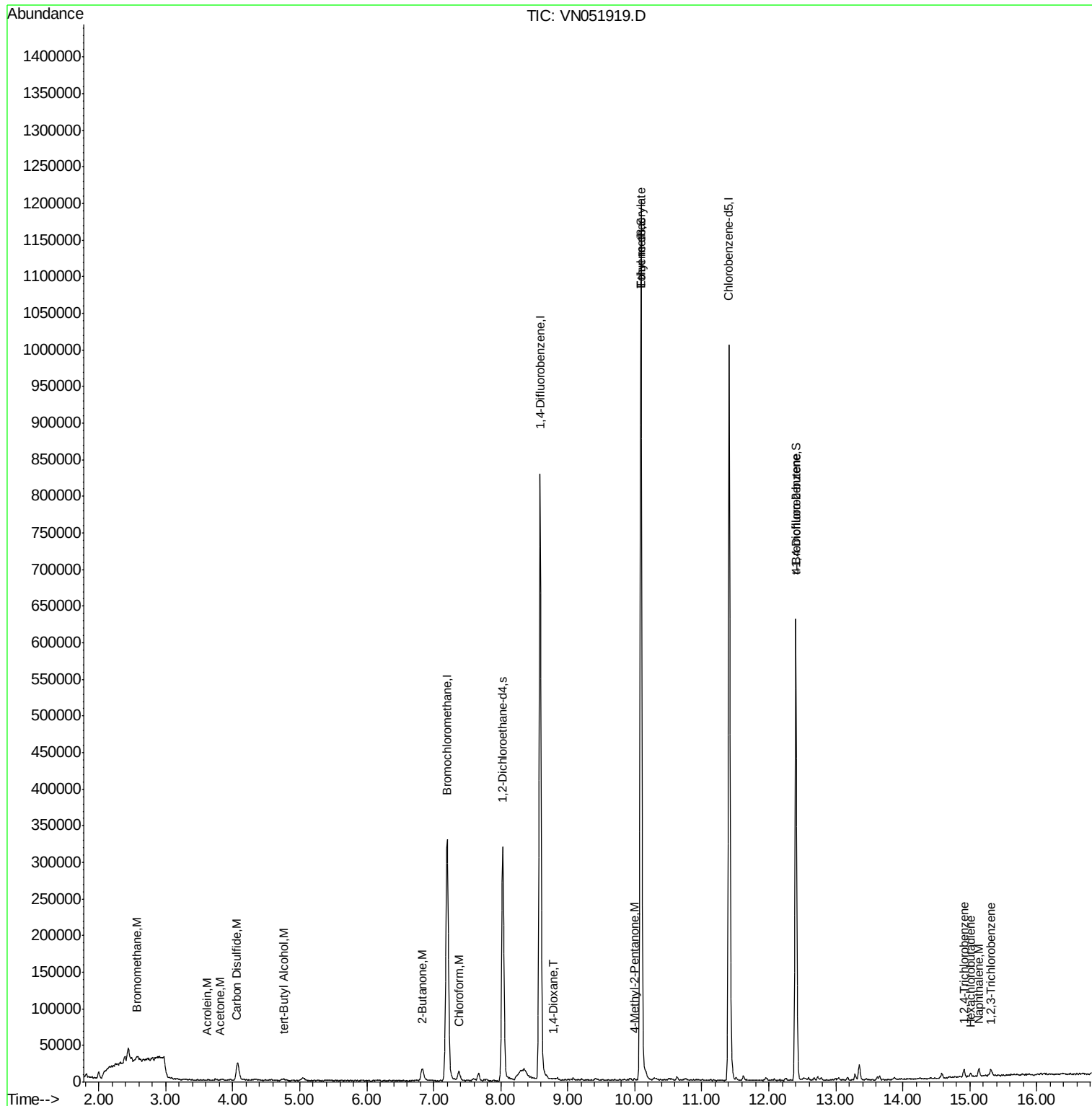
					Qvalue	
5) Bromomethane	2.57	94	2864	0.353	ug/l	86
13) Acrolein	3.61	56	284	1.007	ug/l #	53
15) Acetone	3.81	58	186	0.393	ug/l #	1
16) Carbon Disulfide	4.05	76	4810	0.266	ug/l #	95
23) tert-Butyl Alcohol	4.76	59	585	1.161	ug/l #	100
25) Chloroform	7.38	83	12675	0.839	ug/l #	83
30) 2-Butanone	6.83	43	584	0.263	ug/l #	54
45) 1,4-Dioxane	8.77	88	234	3.026	ug/l #	9
51) Ethyl methacrylate	10.10	69	2682	0.309	ug/l	95
58) 4-Methyl-2-Pentanone	9.99	43	1304	0.294	ug/l #	64
77) t-1,4-Dichloro-2-butene	12.40	75	104868	52.557	ug/l #	12
89) 1,2,4-Trichlorobenzene	14.91	180	3210	8.023	ug/l #	83
90) Hexachlorobutadiene	15.01	225	1233	0.233	ug/l	60
91) Naphthalene	15.13	128	9224	8.944	ug/l #	92
92) 1,2,3-Trichlorobenzene	15.31	180	4197	0.561	ug/l	88

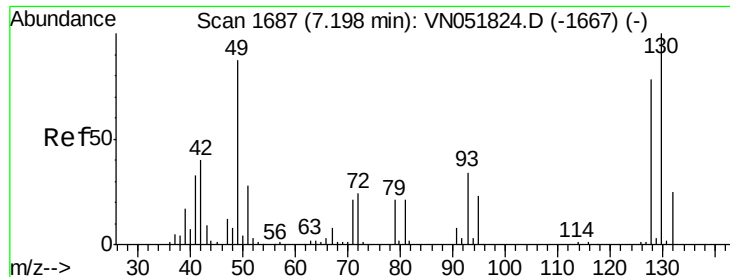
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

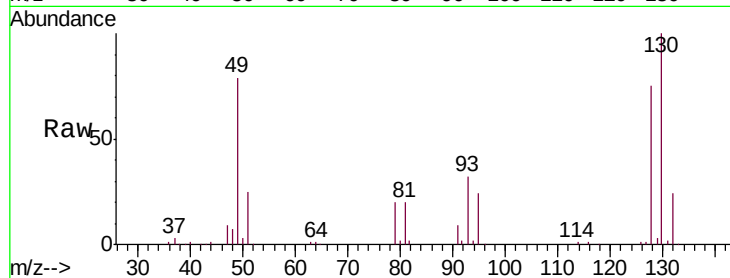
Tgt Ion:128 Resp: 149693

Ion Ratio Lower Upper

128 100

49 106.4 0.0 403.3

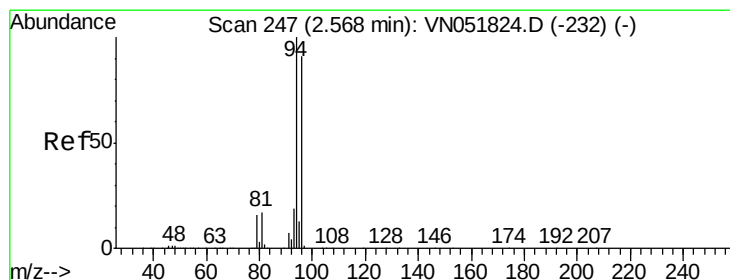
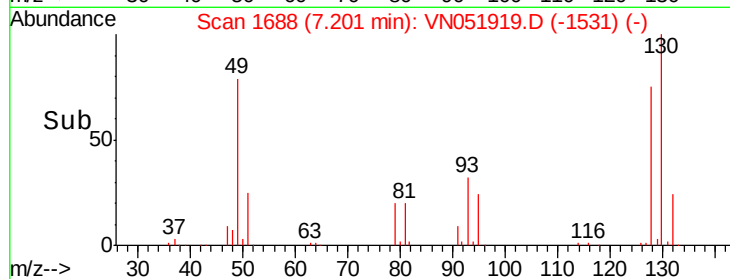
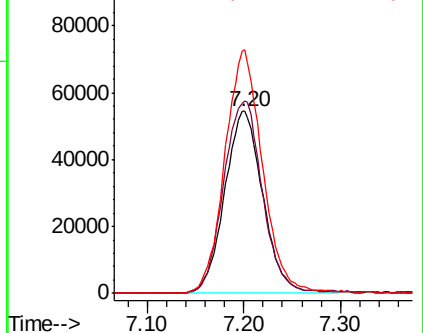
130 130.9 0.0 326.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#5

Bromomethane

Concen: 0.353 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051919.D

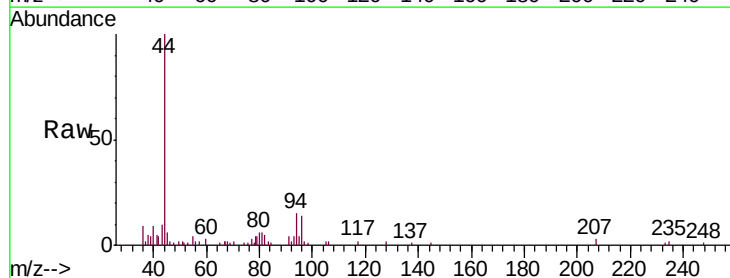
Acq: 18 Oct 2018 16:28

Tgt Ion: 94 Resp: 2864

Ion Ratio Lower Upper

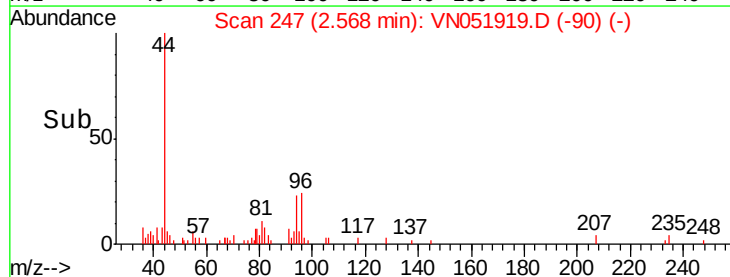
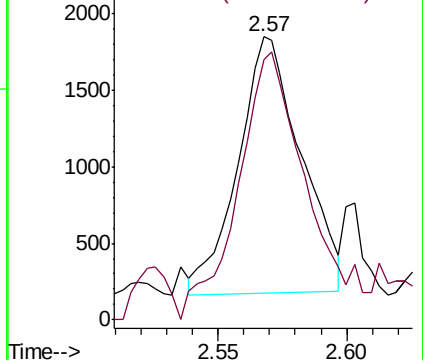
94 100

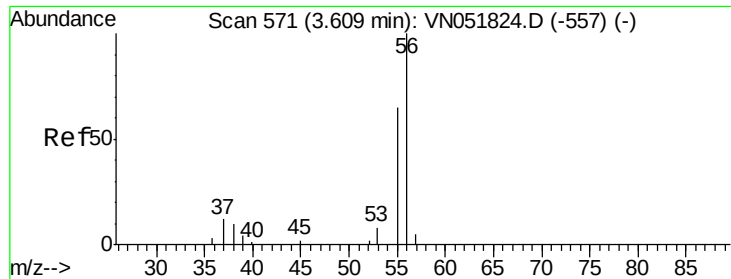
96 95.5 66.4 99.6



Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0





#13

Acrolein

Concen: 1.007 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampled :

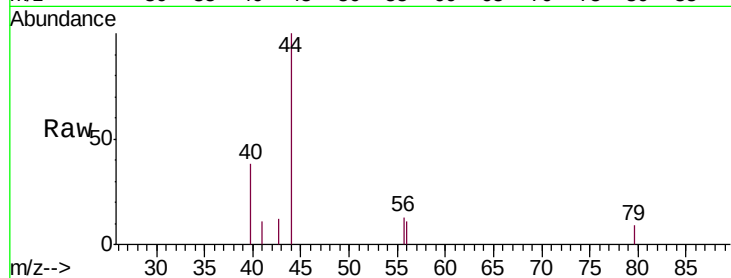
SPDES-1

Tgt Ion: 56 Resp: 284

Ion Ratio Lower Upper

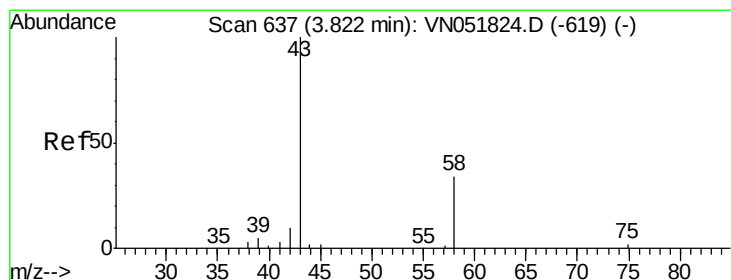
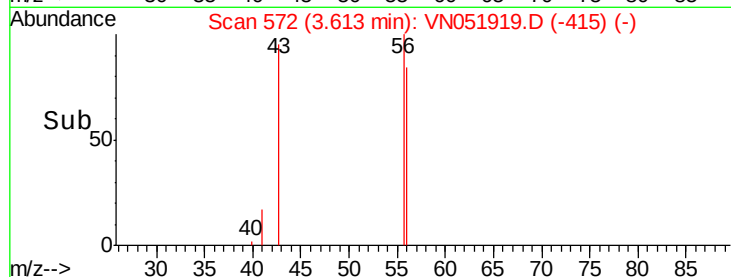
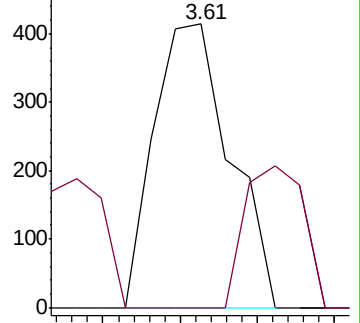
56 100

55 38.4 64.0 96.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#15

Acetone

Concen: 0.393 ug/l

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN051919.D

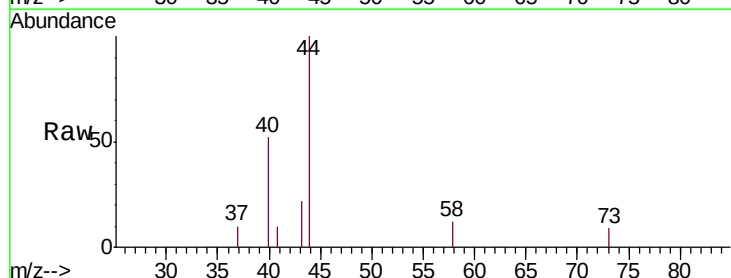
Acq: 18 Oct 2018 16:28

Tgt Ion: 58 Resp: 186

Ion Ratio Lower Upper

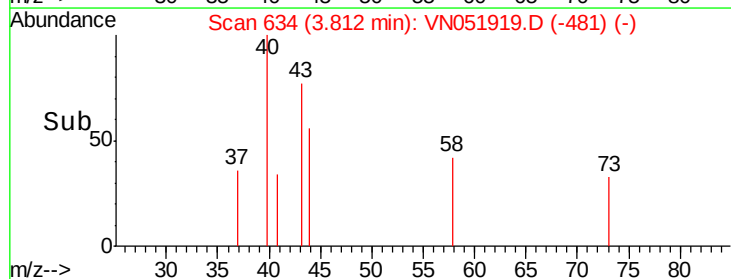
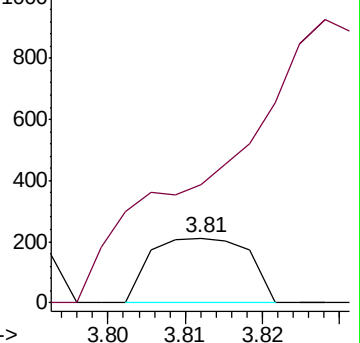
58 100

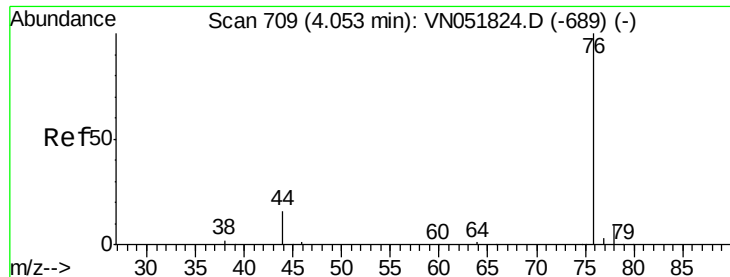
43 40.8 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0





#16

Carbon Disulfide

Concen: 0.266 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

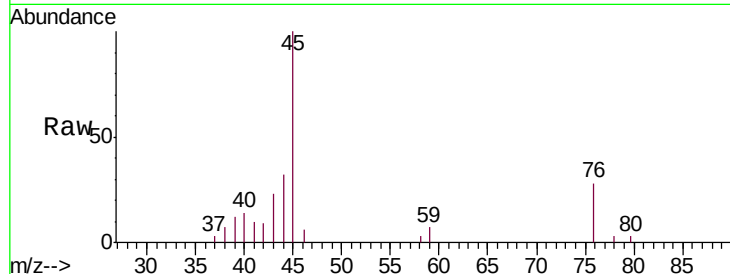
SPDES-1

Tgt Ion: 76 Resp: 4810

Ion Ratio Lower Upper

76 100

78 10.1 6.7 10.1#



Abundance Ion 76.00 (75.70 to 76.70): VN051824.D (-689) (-)

Ion 78.00 (77.70 to 78.70): VN051824.D (-689) (-)

4.05

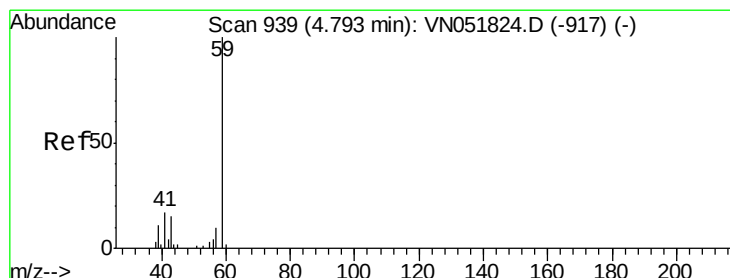
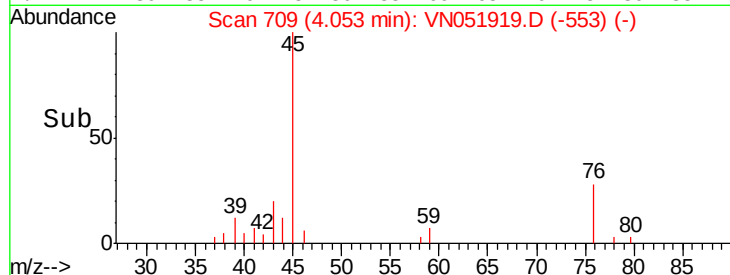
1500

1000

500

0

Time-->



#23

tert-Butyl Alcohol

Concen: 1.161 ug/l

RT: 4.76 min Scan# 929

Delta R.T. -0.03 min

Lab File: VN051919.D

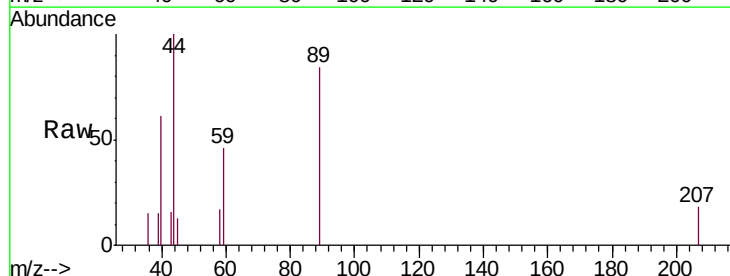
Acq: 18 Oct 2018 16:28

Tgt Ion: 59 Resp: 585

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN051824.D (-917) (-)

Ion 52.00 (51.70 to 52.70): VN051824.D (-917) (-)

4.76

600

500

400

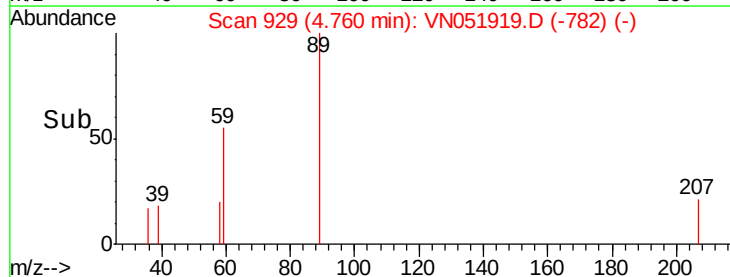
300

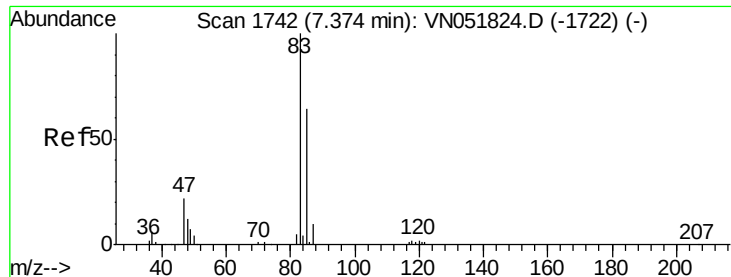
200

100

0

Time-->

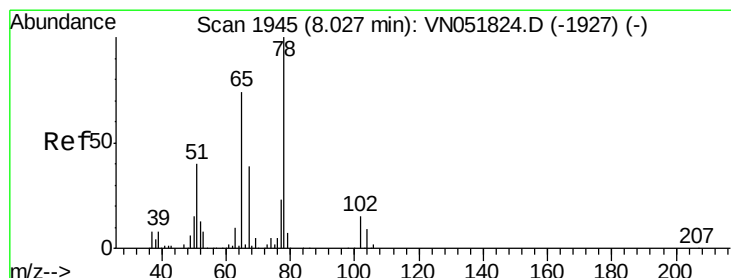
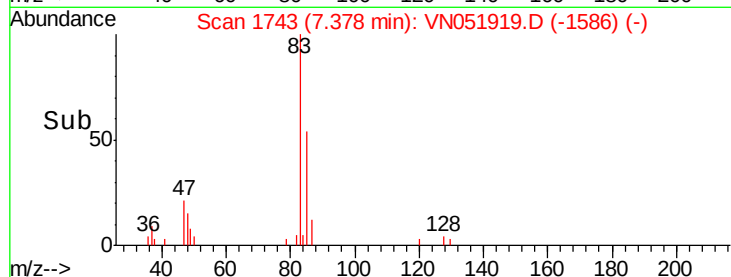
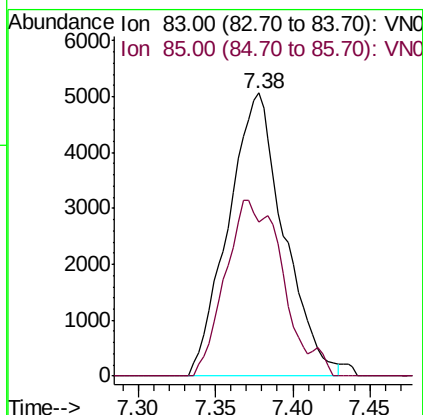
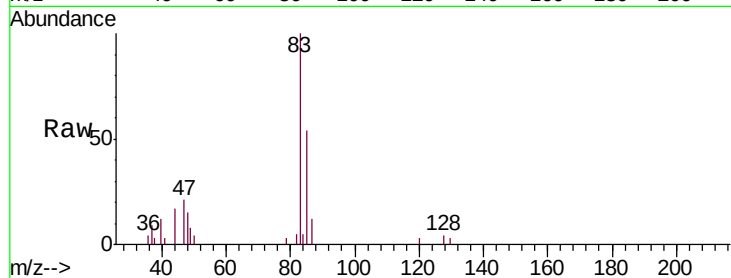




#25
Chloroform
Concen: 0.839 ug/l
RT: 7.38 min Scan# 1743
Delta R.T. 0.00 min
Lab File: VN051919.D
Acq: 18 Oct 2018 16:28

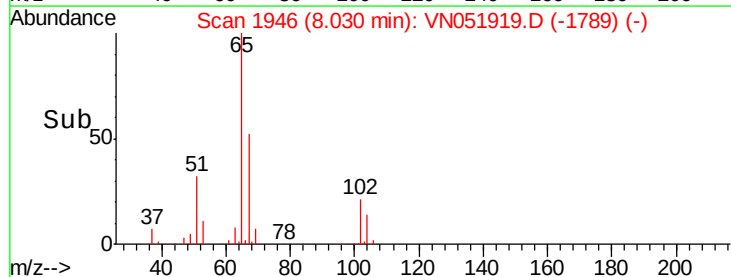
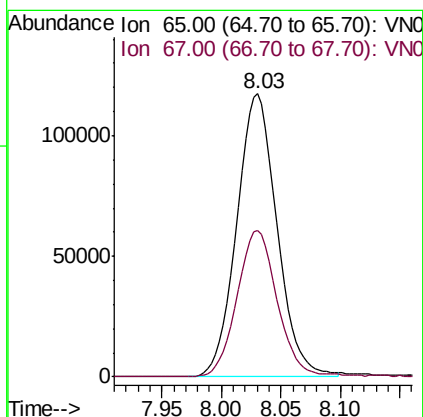
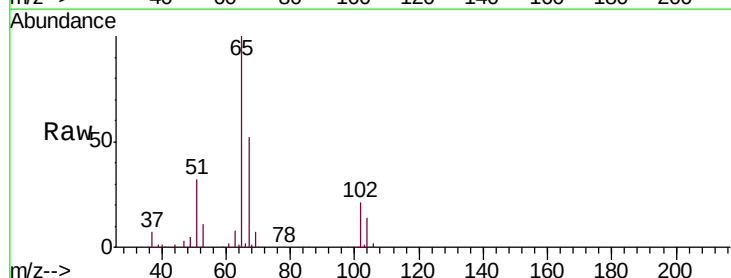
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

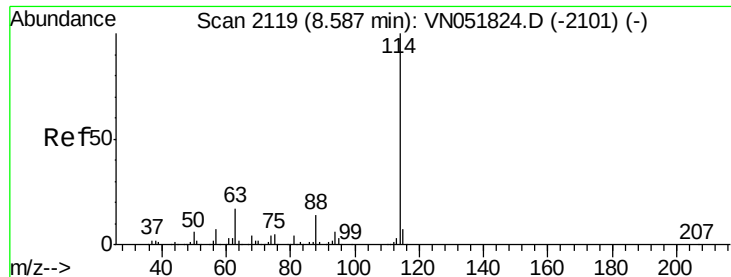
Tgt Ion: 83 Resp: 12675
Ion Ratio Lower Upper
83 100
85 54.4 54.6 82.0#



#27
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051919.D
Acq: 18 Oct 2018 16:28

Tgt Ion: 65 Resp: 275583
Ion Ratio Lower Upper
65 100
67 51.8 41.8 62.8

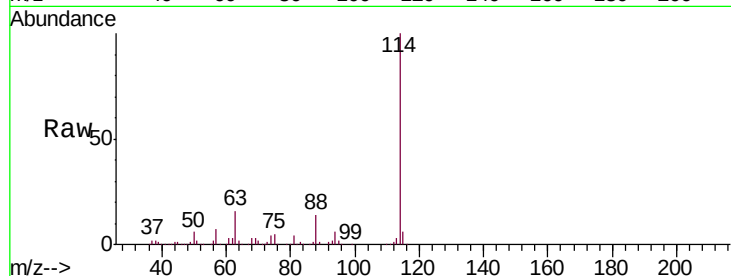




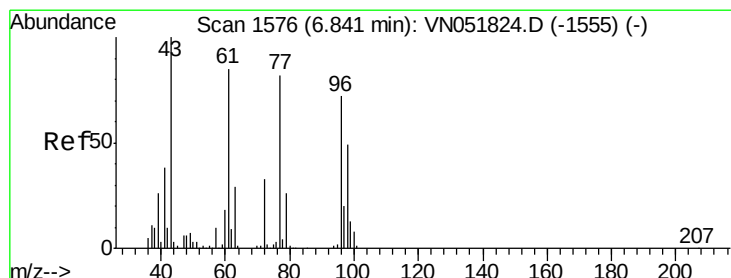
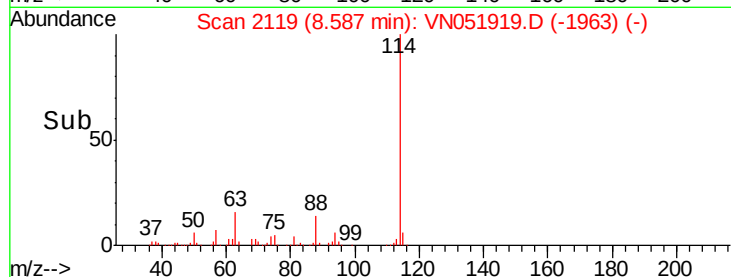
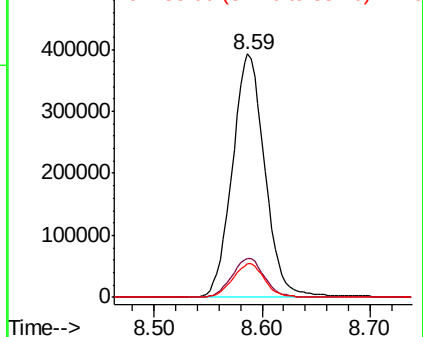
#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051919.D
 Acq: 18 Oct 2018 16:28

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tgt Ion: 114 Resp: 824332
 Ion Ratio Lower Upper
 114 100
 63 16.0 16.2 24.2#
 88 13.8 12.2 18.4

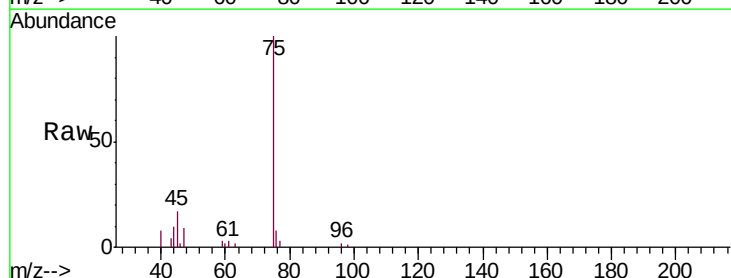


Abundance Ion 114.00 (113.70 to 114.70): VN051824.D (-2101) (-)
 Ion 63.00 (62.70 to 63.70): VN051824.D (-2101) (-)
 Ion 88.00 (87.70 to 88.70): VN051824.D (-2101) (-)

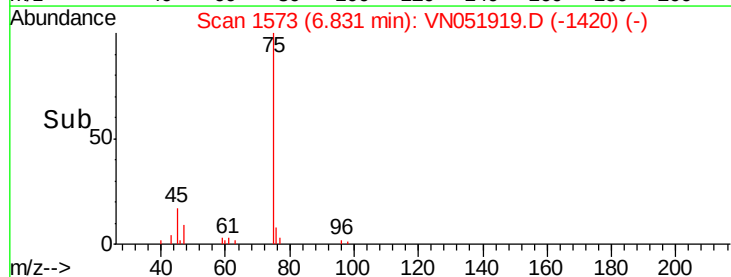
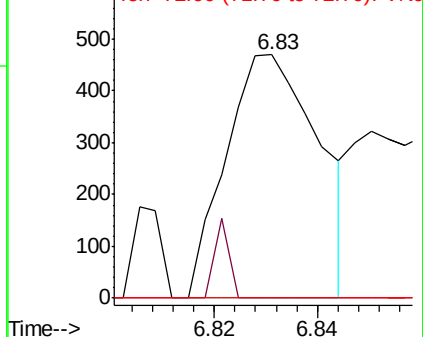


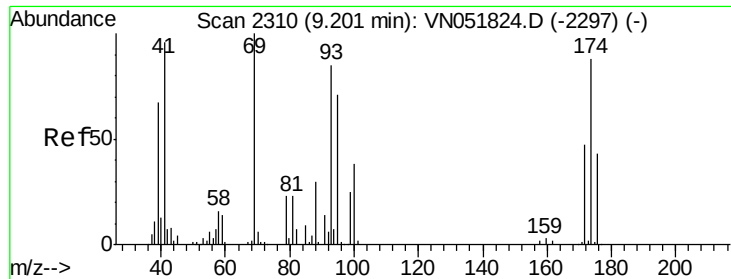
#30
 2-Butanone
 Concen: 0.263 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.01 min
 Lab File: VN051919.D
 Acq: 18 Oct 2018 16:28

Tgt Ion: 43 Resp: 584
 Ion Ratio Lower Upper
 43 100
 57 0.0 4.5 6.7#
 72 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VN051824.D (-1555) (-)
 Ion 57.00 (56.70 to 57.70): VN051824.D (-1555) (-)
 Ion 72.00 (71.70 to 72.70): VN051824.D (-1555) (-)





#45

1,4-Dioxane

Concen: 3.026 ug/l

RT: 8.77 min Scan# 2177

Delta R.T. -0.43 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

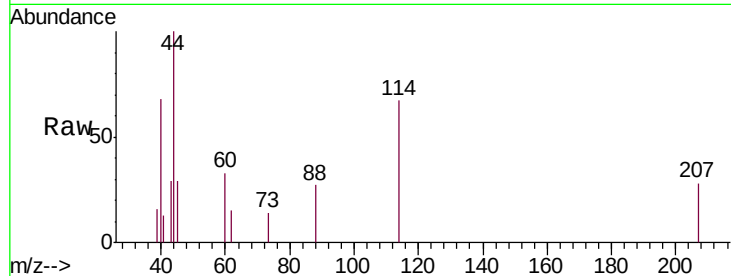
Tgt Ion: 88 Resp: 234

Ion Ratio Lower Upper

88 100

43 83.3 26.2 39.2#

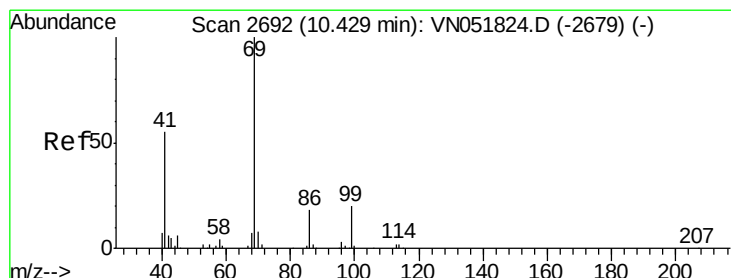
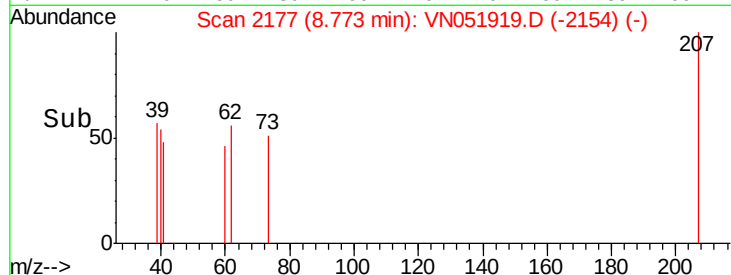
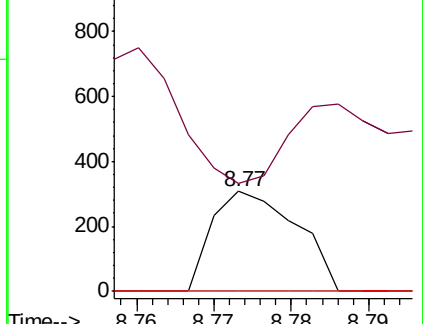
58 0.0 65.6 98.4#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#51

Ethyl methacrylate

Concen: 0.309 ug/l

RT: 10.10 min Scan# 2589

Delta R.T. -0.33 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

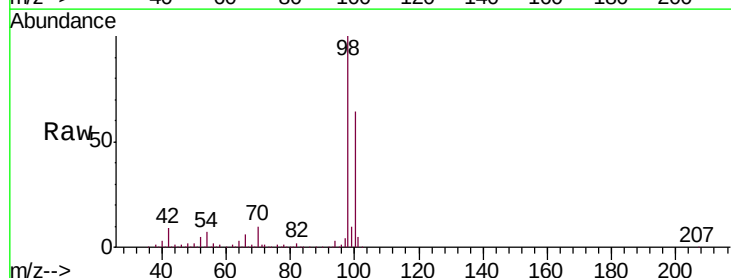
Tgt Ion: 69 Resp: 2682

Ion Ratio Lower Upper

69 100

41 66.4 34.4 103.1

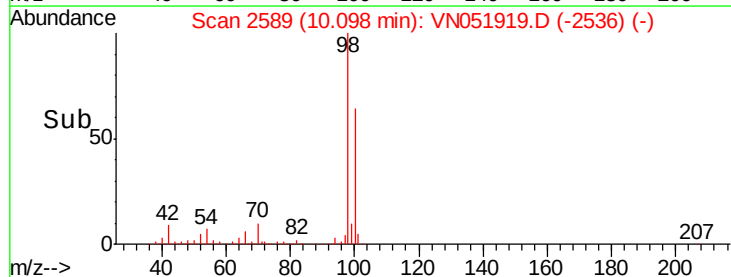
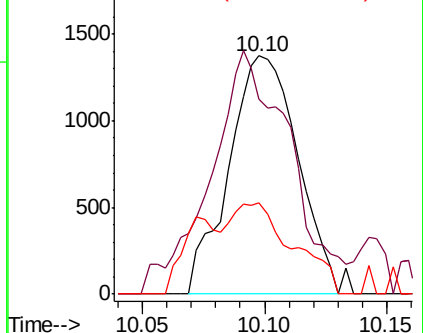
39 38.5 16.3 48.8

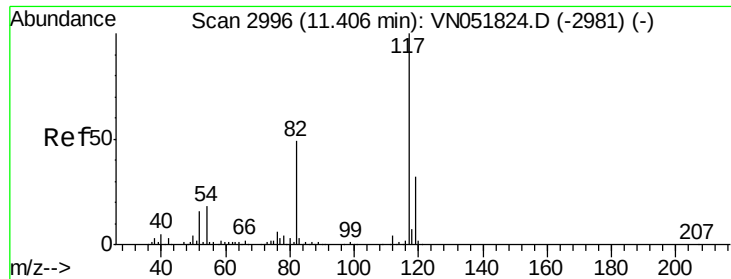


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

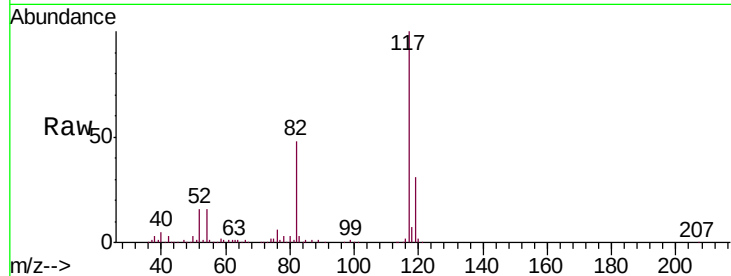




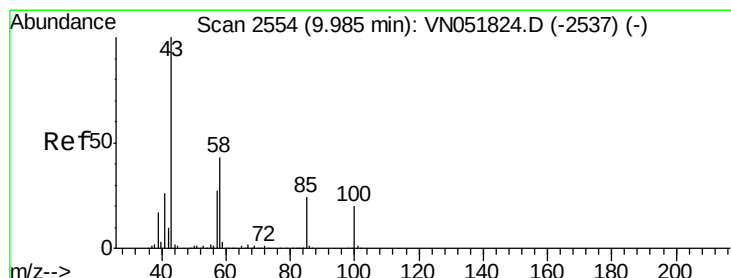
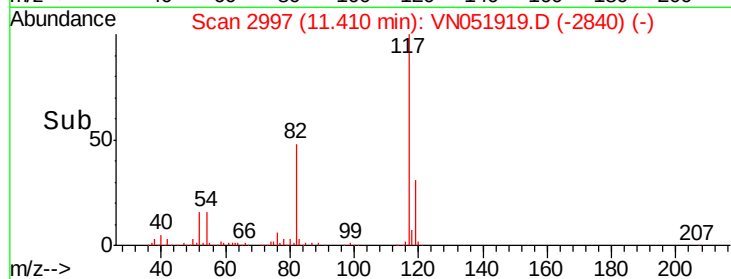
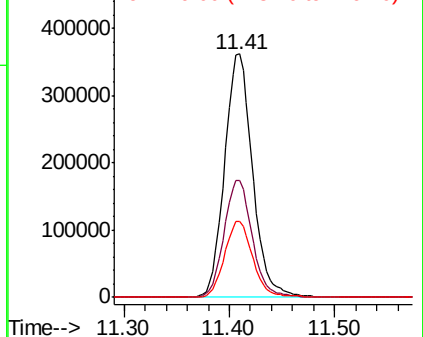
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051919.D
Acq: 18 Oct 2018 16:28

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tgt Ion	Ratio	Lower	Upper
117	100		
82	48.5	44.1	66.1
119	31.6	25.8	38.8

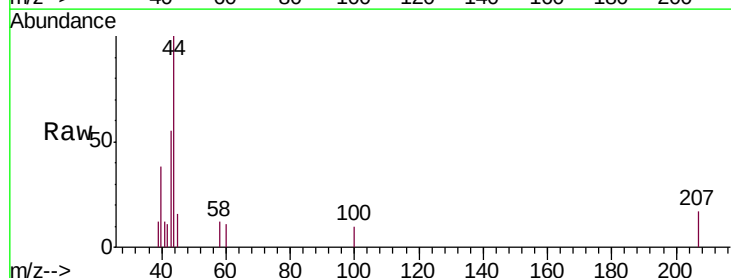


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

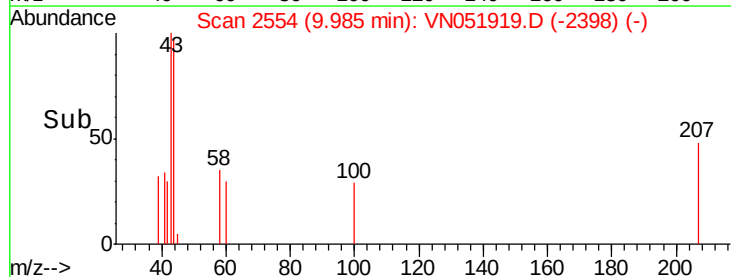
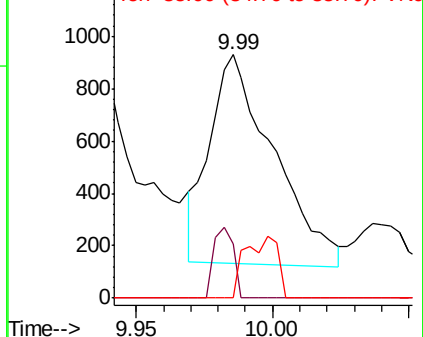


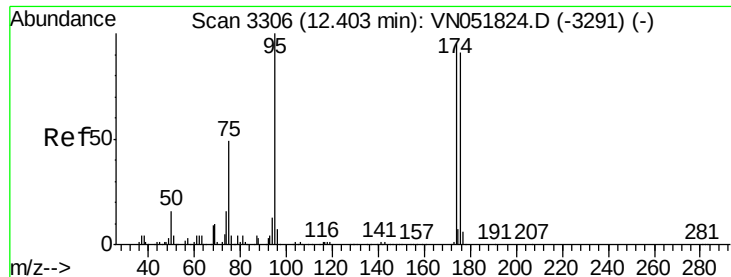
#58
4-Methyl-2-Pentanone
Concen: 0.294 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN051919.D
Acq: 18 Oct 2018 16:28

Tgt Ion	Ratio	Lower	Upper
43	100		
58	10.5	29.3	43.9#
85	8.2	12.6	18.8#



Abundance Ion 43.00 (42.70 to 43.70): VN
Ion 58.00 (57.70 to 58.70): VN
Ion 85.00 (84.70 to 85.70): VN





#60

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

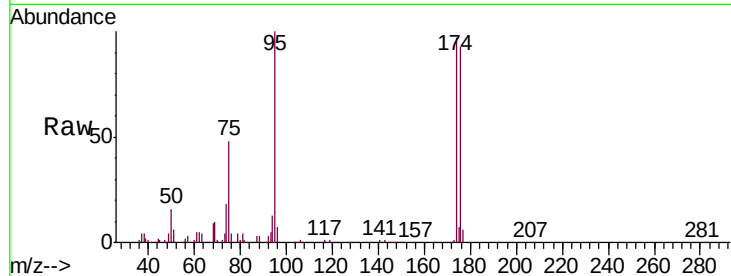
Tgt Ion: 95 Resp: 216232

Ion Ratio Lower Upper

95 100

174 96.6 73.5 110.3

176 93.9 70.2 105.2



Abundance Ion 95.00 (94.70 to 95.70): VN051824.D (-3291) (-)

Ion 174.00 (173.70 to 174.70): VN051824.D (-3291) (-)

Ion 176.00 (175.70 to 176.70): VN051824.D (-3291) (-)

12.40

150000

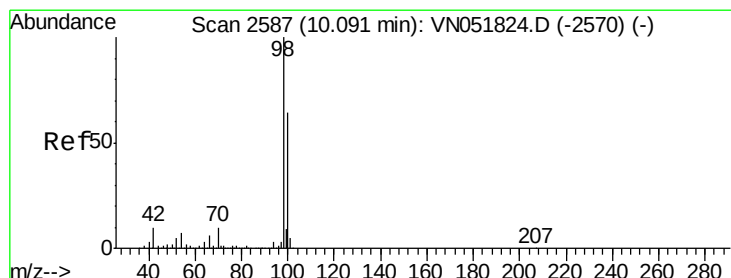
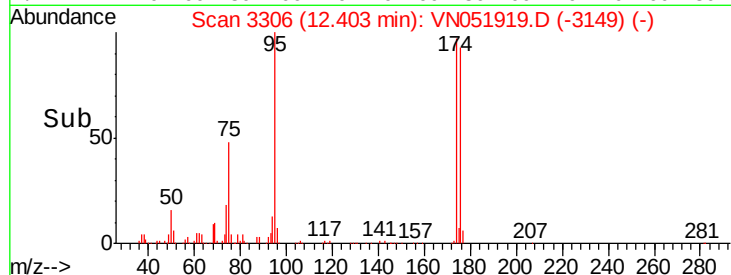
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051919.D

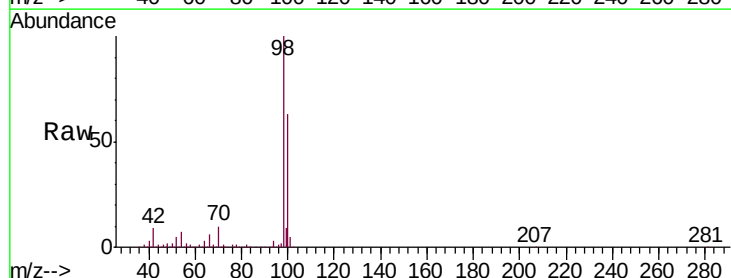
Acq: 18 Oct 2018 16:28

Tgt Ion: 98 Resp: 914529

Ion Ratio Lower Upper

98 100

100 62.6 50.8 76.2



Abundance Ion 98.00 (97.70 to 98.70): VN051824.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051824.D (-2570) (-)

10.09

500000

400000

300000

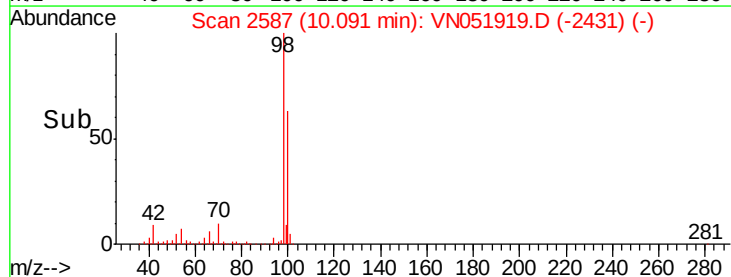
200000

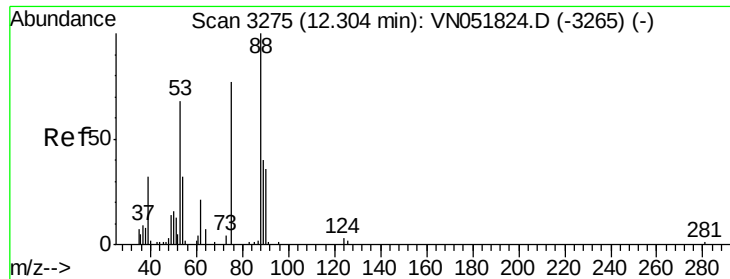
100000

0

10.00 10.10 10.20

Time-->





#77

t-1,4-Dichloro-2-butene

Concen: 52.557 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

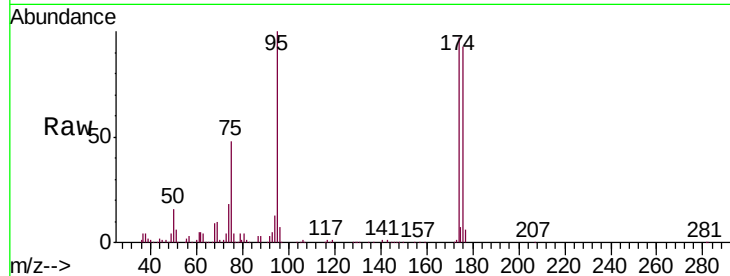
Tgt Ion: 75 Resp: 104868

Ion Ratio Lower Upper

75 100

53 0.0 46.3 138.9#

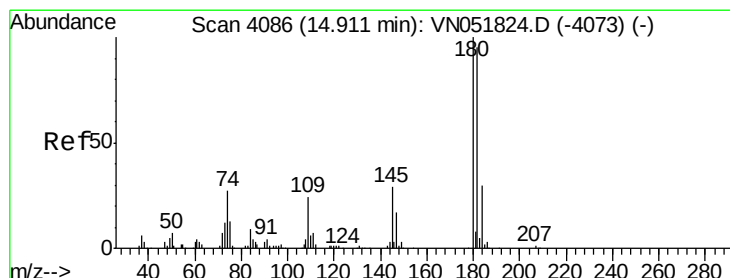
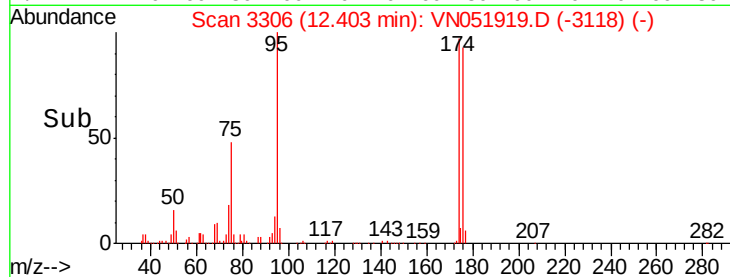
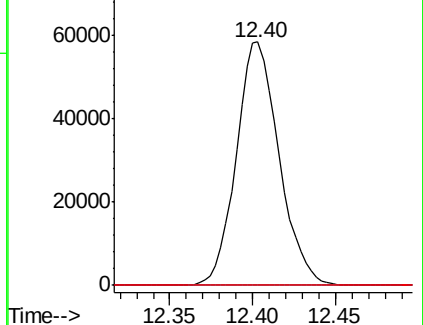
89 0.0 24.6 73.8#



Abundance Ion 75.00 (74.70 to 75.70): VN051919.D (-3306) (-)

Ion 53.00 (52.70 to 53.70): VN051919.D (-3306) (-)

Ion 89.00 (88.70 to 89.70): VN051919.D (-3306) (-)



#89

1,2,4-Trichlorobenzene

Concen: 8.023 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

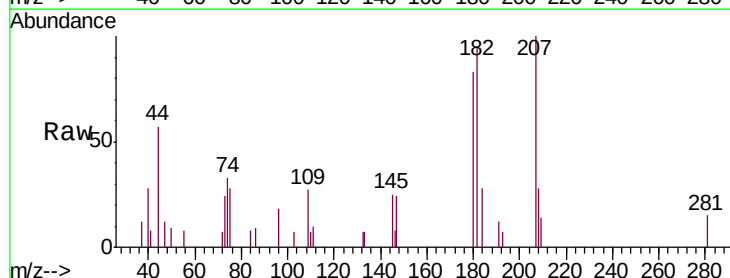
Tgt Ion: 180 Resp: 3210

Ion Ratio Lower Upper

180 100

182 118.3 77.7 116.5#

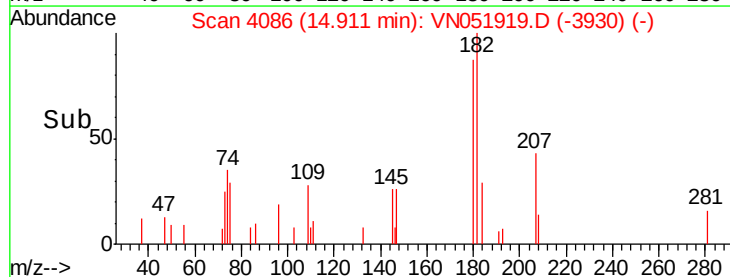
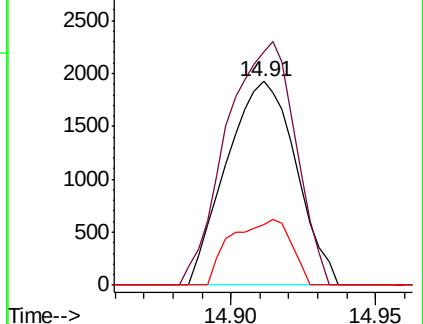
145 27.6 23.4 35.2

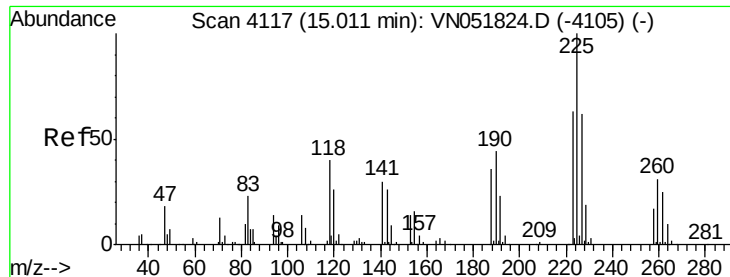


Abundance Ion 180.00 (179.70 to 180.70): VN051919.D (-4086) (-)

Ion 182.00 (181.70 to 182.70): VN051919.D (-4086) (-)

Ion 145.00 (144.70 to 145.70): VN051919.D (-4086) (-)





#90

Hexachlorobutadiene

Concen: 0.233 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

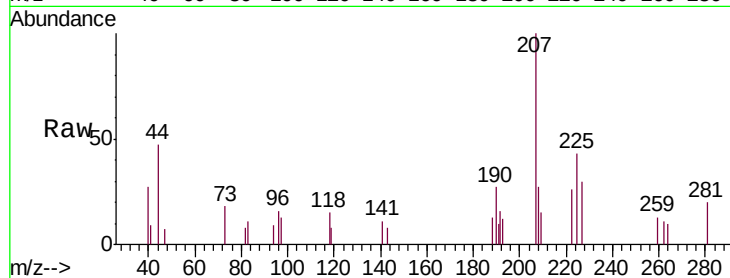
Tgt Ion:225 Resp: 1233

Ion Ratio Lower Upper

225 100

223 6.9 0.0 117.0

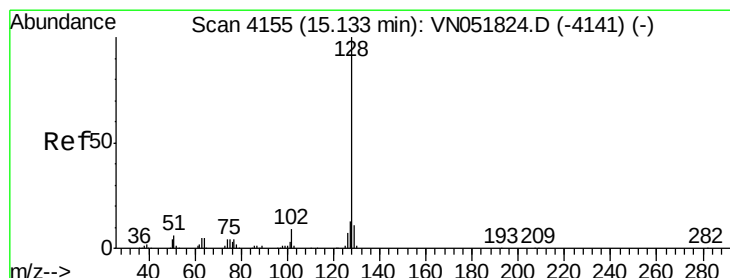
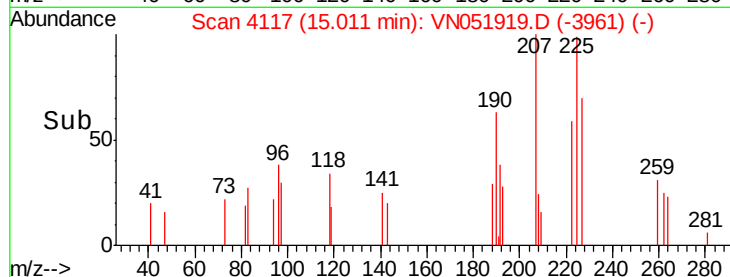
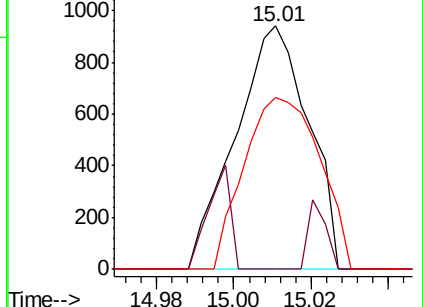
227 73.2 0.0 127.0



Abundance Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V



#91

Naphthalene

Concen: 8.944 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051919.D

Acq: 18 Oct 2018 16:28

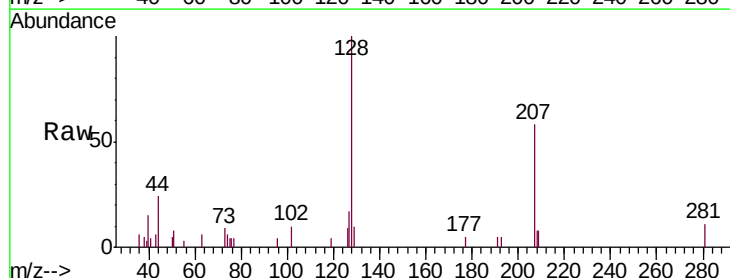
Tgt Ion:128 Resp: 9224

Ion Ratio Lower Upper

128 100

127 11.3 10.1 15.1

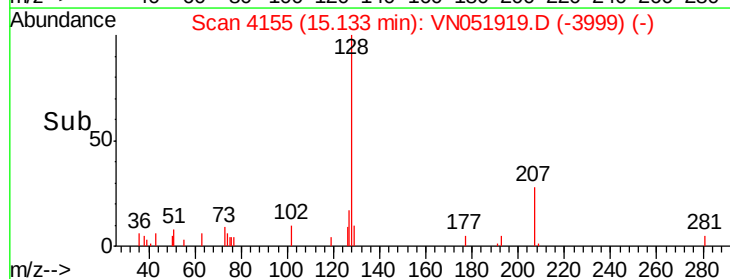
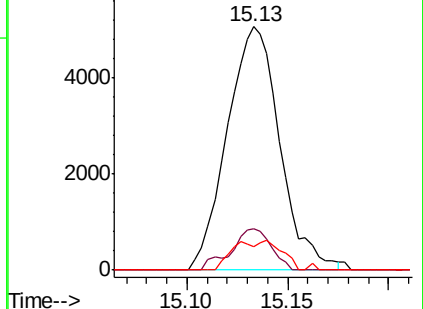
129 5.7 8.4 12.6#

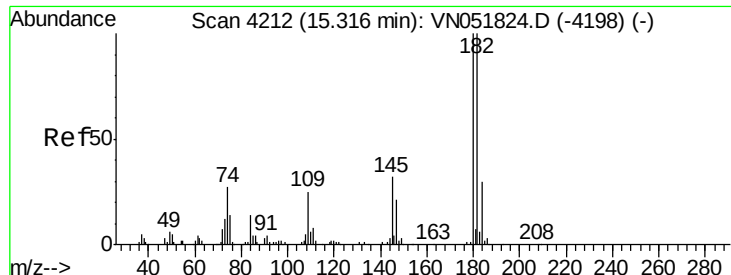


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

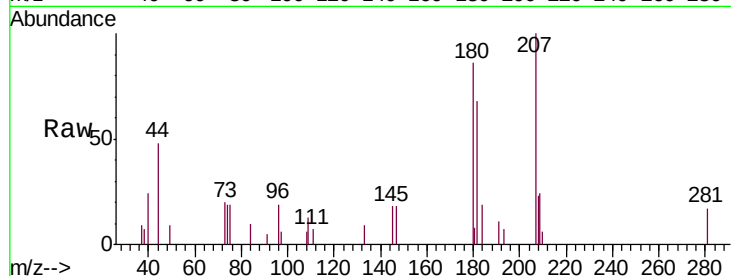




#92
 1,2,3-Trichlorobenzene
 Concen: 0.561 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN051919.D
 Acq: 18 Oct 2018 16:28

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tgt Ion:180 Resp: 4197
 Ion Ratio Lower Upper
 180 100
 182 85.8 0.0 198.0
 145 17.1 0.0 36.8



Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

