

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102518\
 Data File : VN052015.D
 Acq On : 25 Oct 2018 17:24
 Operator : MD\SY
 Sample : J5681-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Oct 26 01:03:22 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	165090	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	912411	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	774258	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	286363	28.51	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.03%
60) 4-Bromofluorobenzene	12.40	95	289207	25.90	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	86.33%
63) Toluene-d8	10.09	98	1015156	30.19	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.63%

Target Compounds

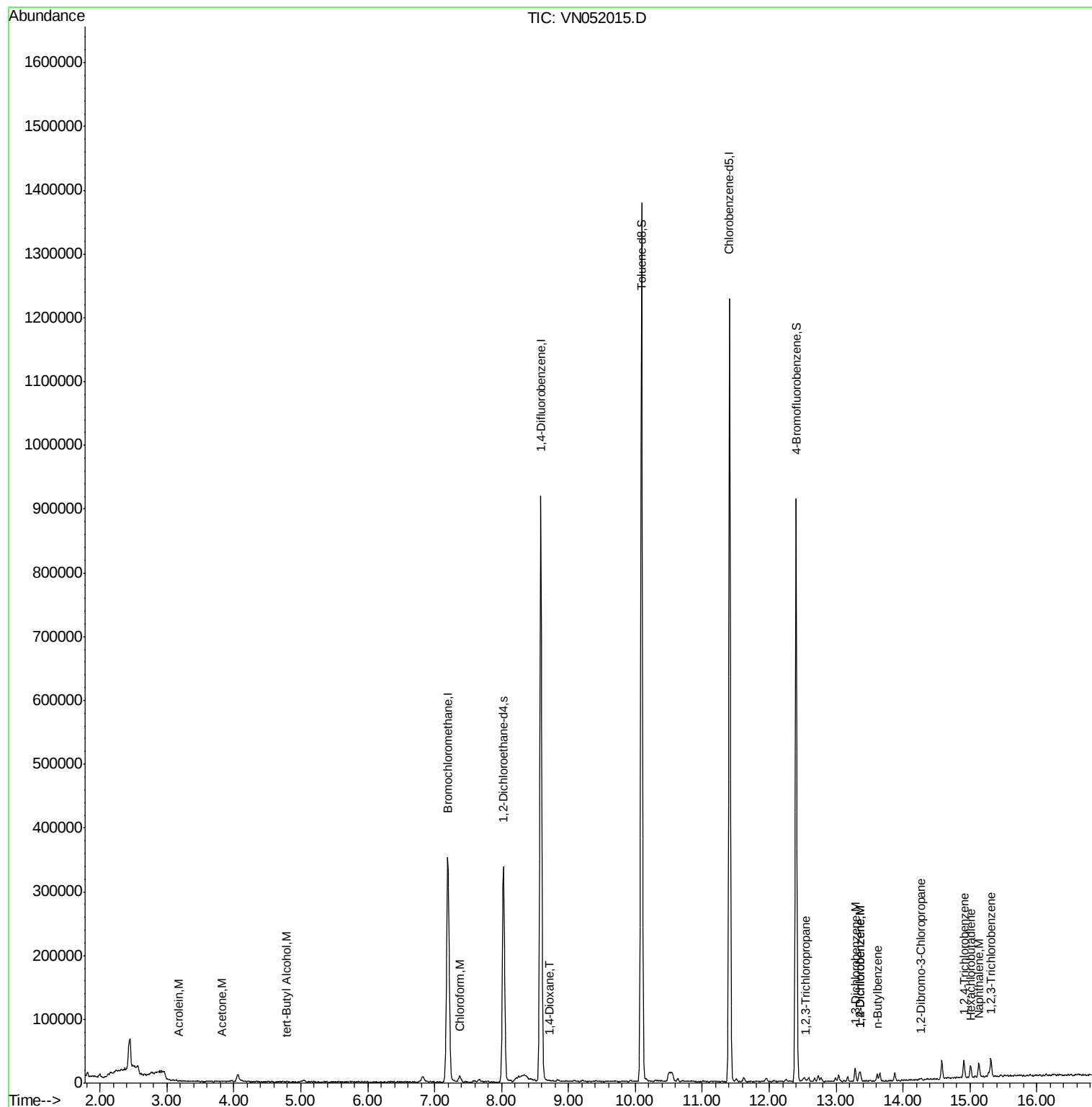
					Ovalue
13) Acrolein	3.17	56	65	0.209 ug/l	88
15) Acetone	3.82	58	231	0.443 ug/l #	1
23) tert-Butyl Alcohol	4.78	59	154	0.277 ug/l #	100
25) Chloroform	7.37	83	10135	0.608 ug/l	88
45) 1,4-Dioxane	8.71	88	75	0.876 ug/l #	29
72) 1,2,3-Trichloropropane	12.55	75	1550	0.220 ug/l	59
83) 1,3-Dichlorobenzene	13.28	146	5574	0.281 ug/l	91
84) 1,4-Dichlorobenzene	13.36	146	5644	0.303 ug/l	94
85) n-Butylbenzene	13.61	91	6084	0.200 ug/l	89
87) 1,2-Dichlorobenzene	13.36	146	5644	0.294 ug/l	89
88) 1,2-Dibromo-3-Chloropropan	14.28	75	494	0.370 ug/l #	74
89) 1,2,4-Trichlorobenzene	14.91	180	9702	8.494 ug/l	94
90) Hexachlorobutadiene	15.01	225	4269	0.691 ug/l	92
91) Naphthalene	15.13	128	19188	9.266 ug/l	99
92) 1,2,3-Trichlorobenzene	15.31	180	10230	1.173 ug/l	82

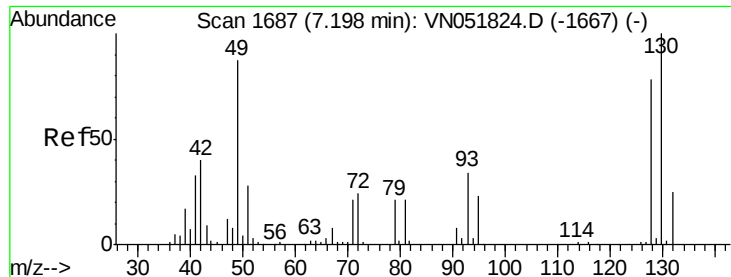
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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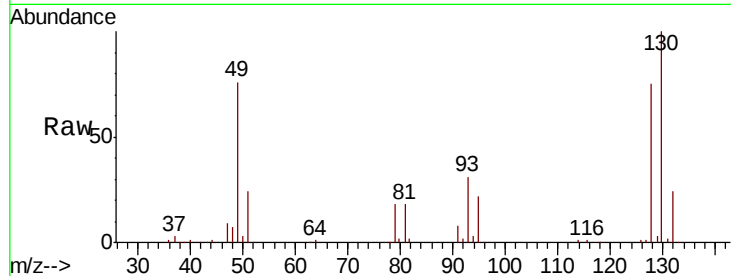




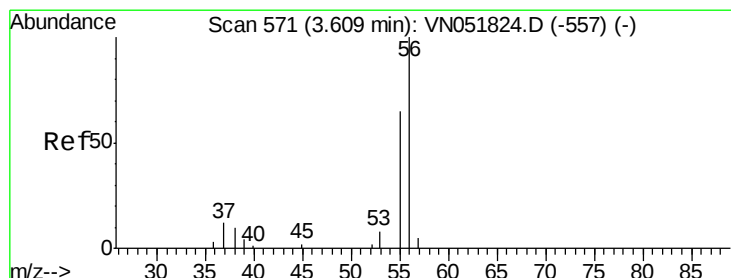
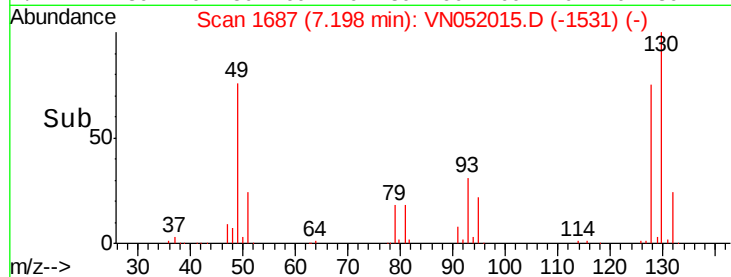
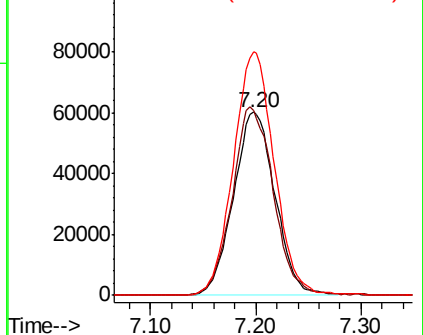
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.20 min Scan# 1687
 Delta R.T. 0.00 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion:128 Resp: 165090
 Ion Ratio Lower Upper
 128 100
 49 100.4 0.0 403.3
 130 129.9 0.0 326.0

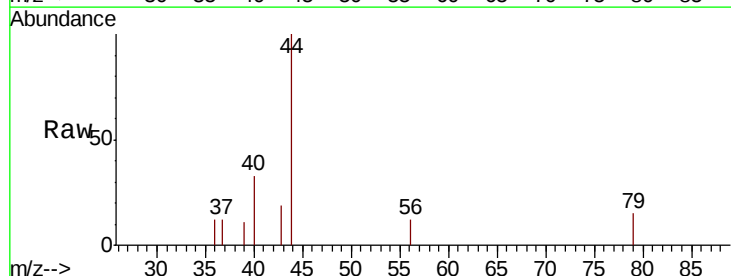


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

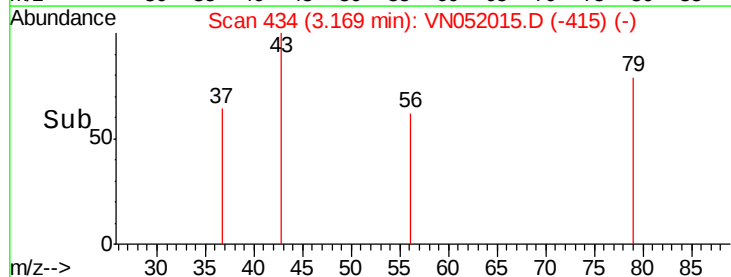
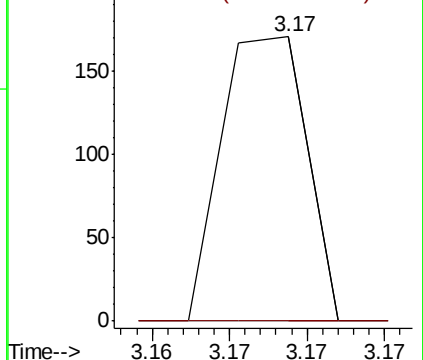


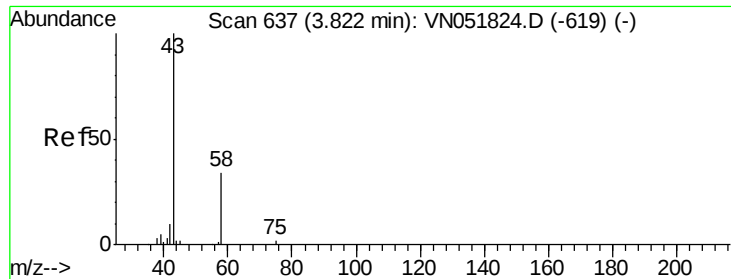
#13
 Acrolein
 Concen: 0.209 ug/l
 RT: 3.17 min Scan# 434
 Delta R.T. -0.44 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

Tgt Ion: 56 Resp: 65
 Ion Ratio Lower Upper
 56 100
 55 90.8 64.0 96.0



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





#15

Acetone

Concen: 0.443 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN052015.D

Acq: 25 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

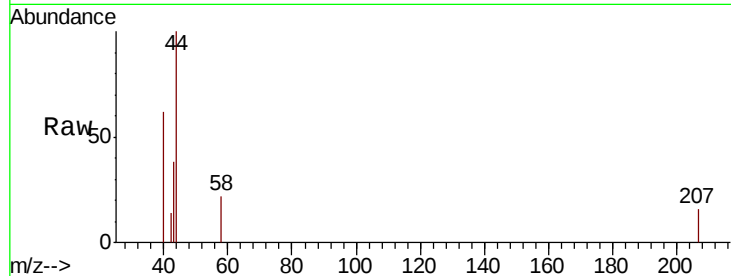
SPDES-1

Tot Ion: 58 Resp: 231

Ion Ratio Lower Upper

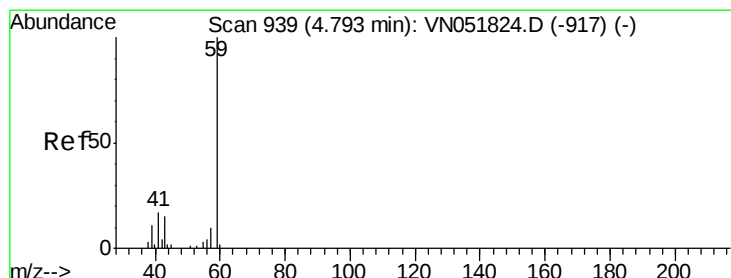
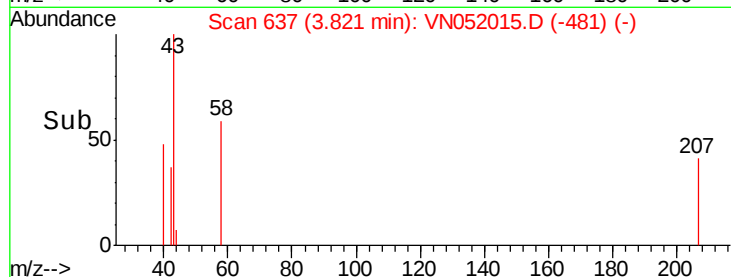
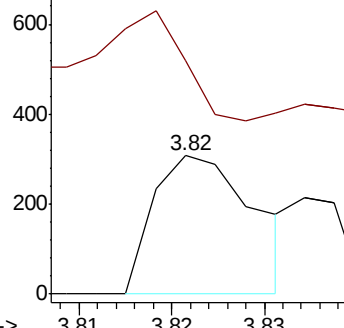
58 100

43 38.8 232.2 348.2#



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#23

tert-Butyl Alcohol

Concen: 0.277 ug/l

RT: 4.78 min Scan# 936

Delta R.T. -0.01 min

Lab File: VN052015.D

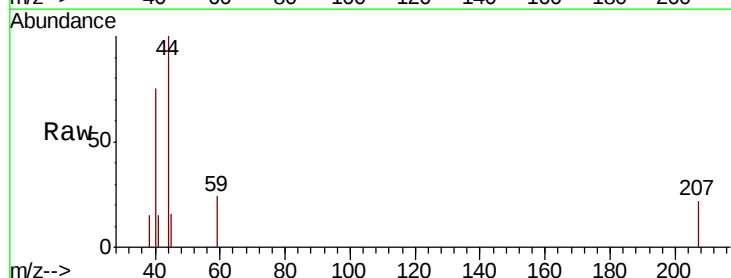
Acq: 25 Oct 2018 17:24

Tgt Ion: 59 Resp: 154

Ion Ratio Lower Upper

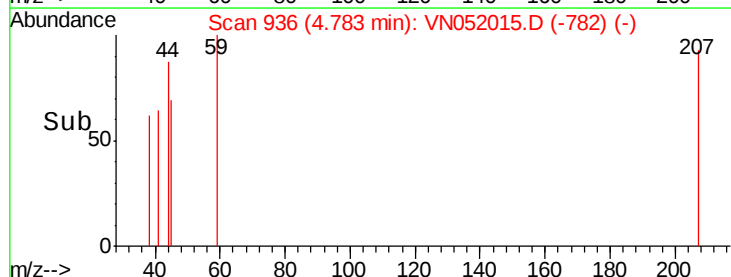
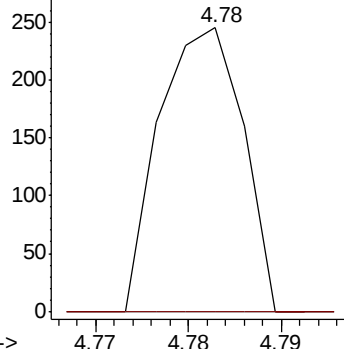
59 100

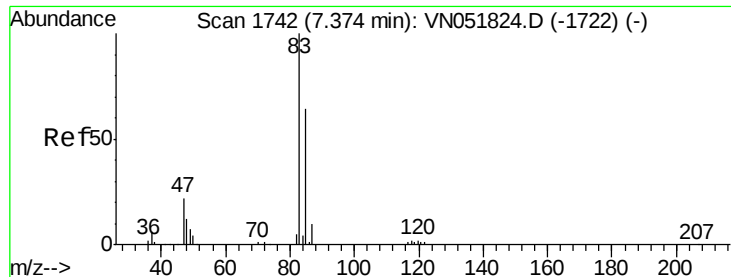
52 52.6 0.0 0.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0





#25

Chloroform

Concen: 0.608 ug/l

RT: 7.37 min Scan# 1742

Delta R.T. 0.00 min

Lab File: VN052015.D

Acq: 25 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

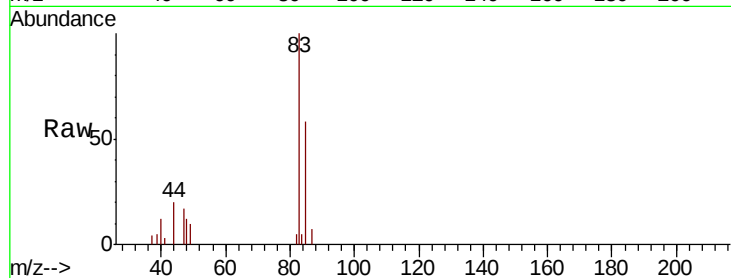
SPDES-1

Tot Ion: 83 Resp: 10135

Ion Ratio Lower Upper

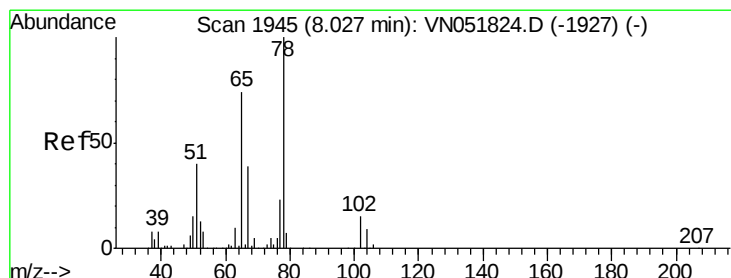
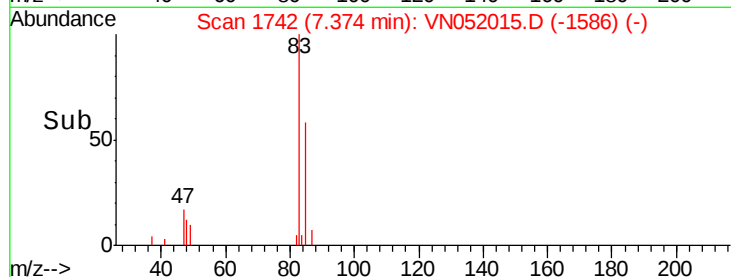
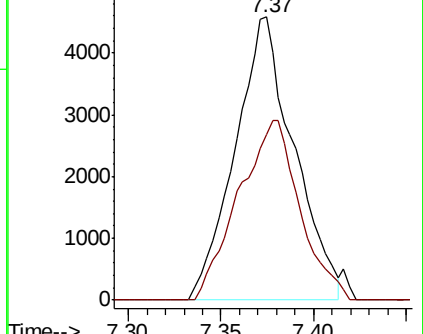
83 100

85 58.5 54.6 82.0



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052015.D

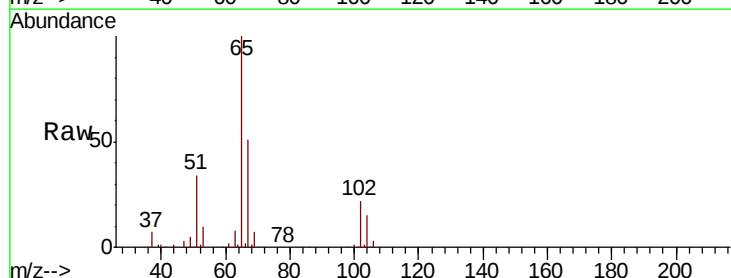
Acq: 25 Oct 2018 17:24

Tgt Ion: 65 Resp: 286363

Ion Ratio Lower Upper

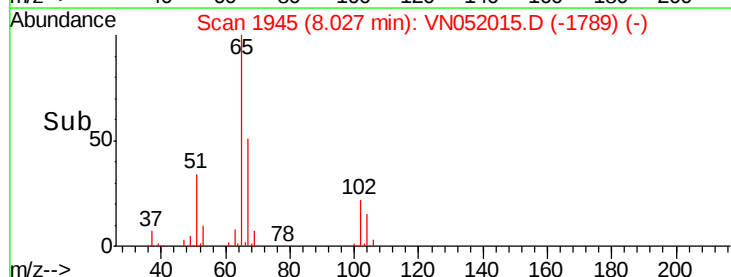
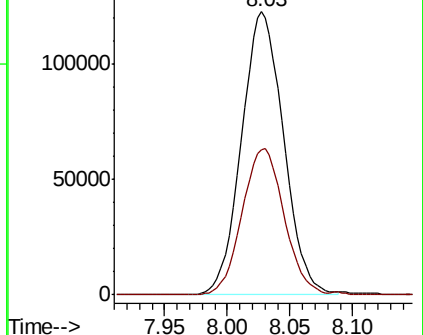
65 100

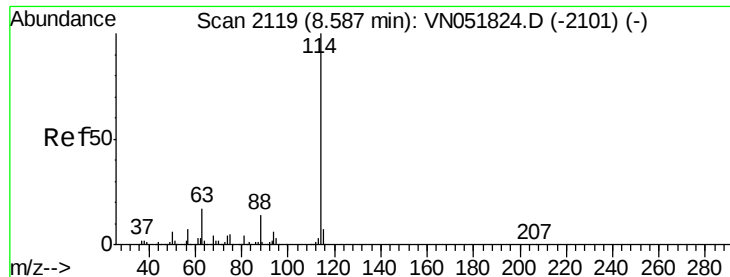
67 51.6 41.8 62.8



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

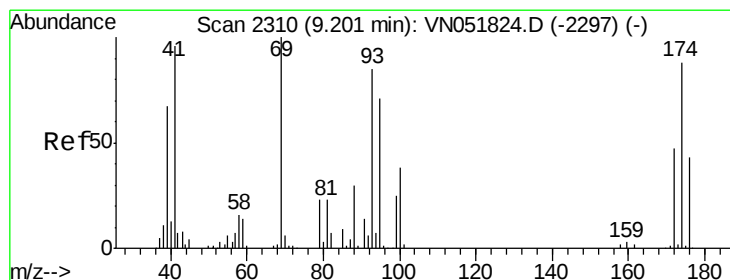
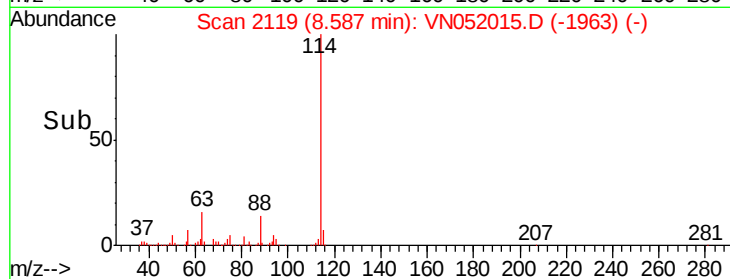
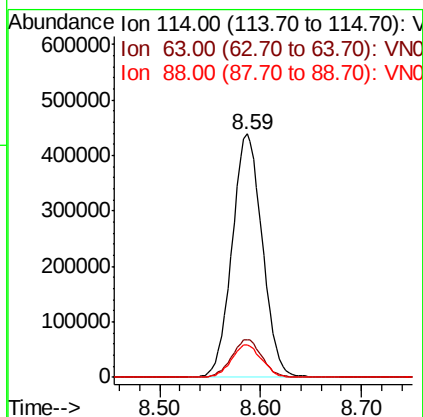
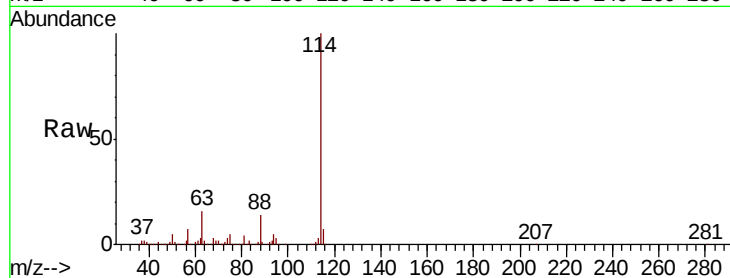




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

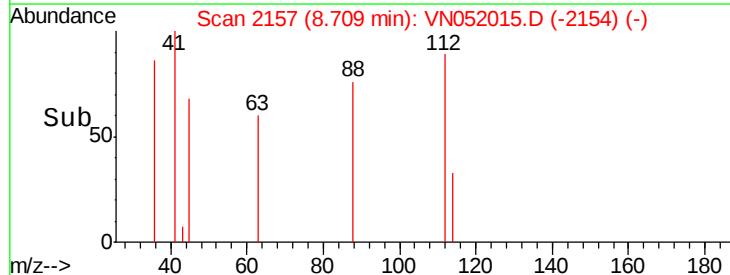
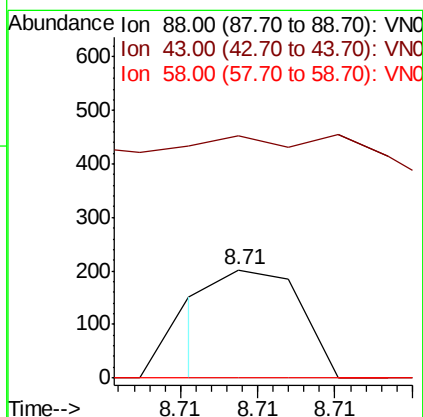
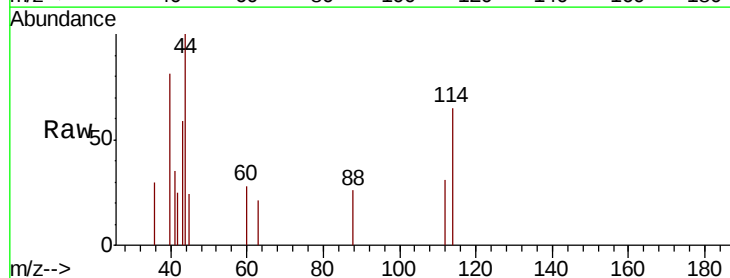
Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

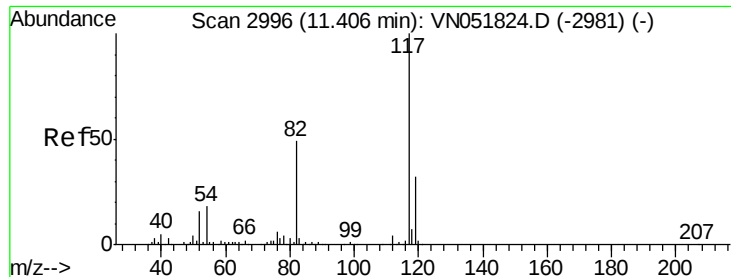
Tot Ion:114 Resp: 912411
 Ion Ratio Lower Upper
 114 100
 63 15.6 16.2 24.2#
 88 13.5 12.2 18.4



#45
 1,4-Dioxane
 Concen: 0.876 ug/l
 RT: 8.71 min Scan# 2157
 Delta R.T. -0.49 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

Tgt Ion: 88 Resp: 75
 Ion Ratio Lower Upper
 88 100
 43 42.7 26.2 39.2#
 58 0.0 65.6 98.4#

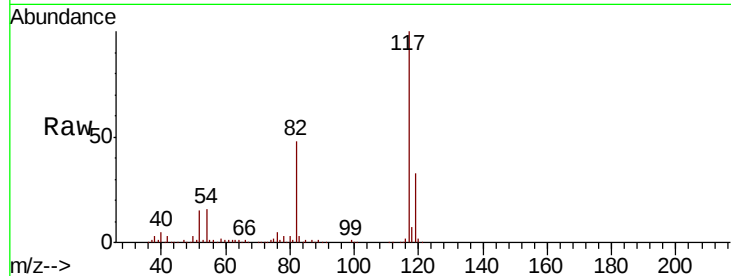




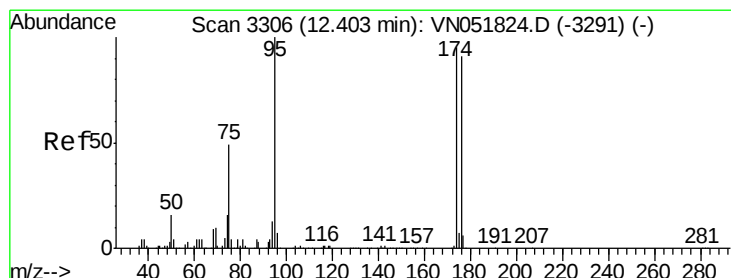
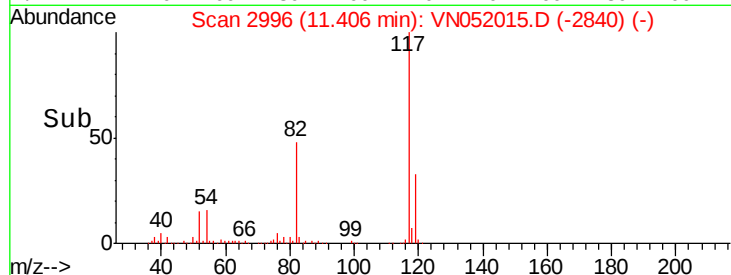
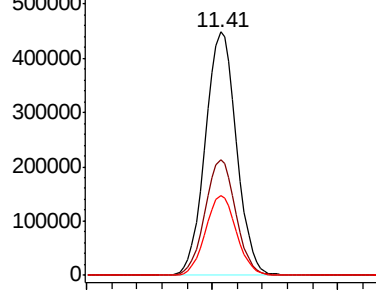
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN052015.D
Acq: 25 Oct 2018 17:24

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tot Ion	Ratio	Lower	Upper
117	100		
82	46.9	44.1	66.1
119	32.5	25.8	38.8

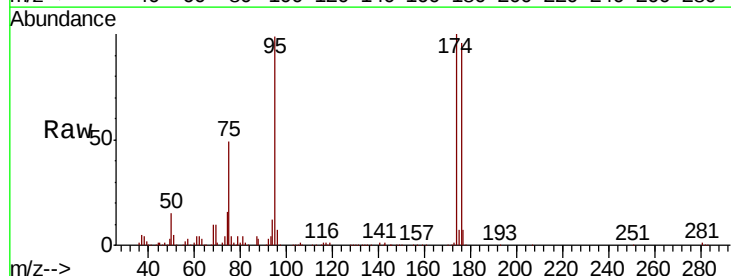


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): V
Ion 119.00 (118.70 to 119.70): V

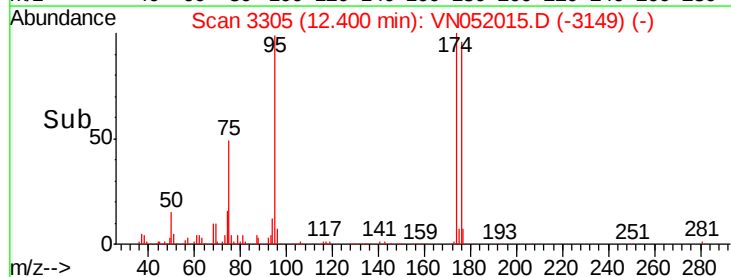
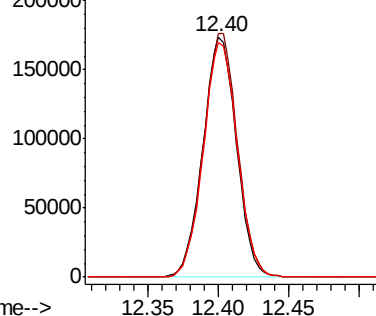


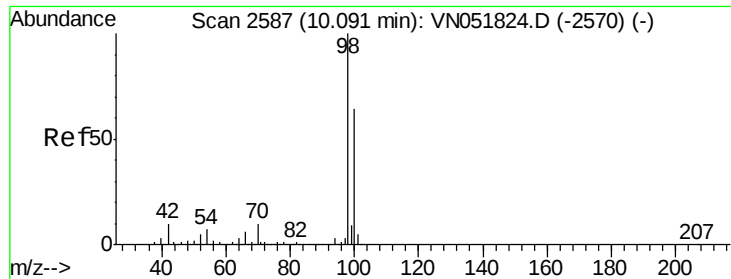
#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052015.D
Acq: 25 Oct 2018 17:24

Tgt Ion	Ratio	Lower	Upper
95	100		
174	102.8	73.5	110.3
176	99.1	70.2	105.2



Abundance Ion 95.00 (94.70 to 95.70): V
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052015.D

Acq: 25 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampleId :

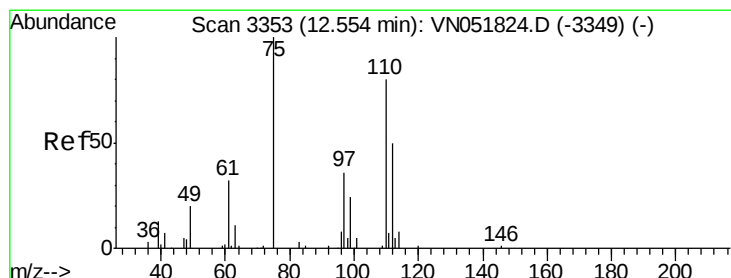
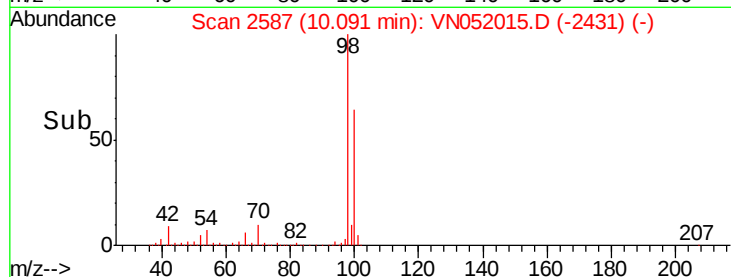
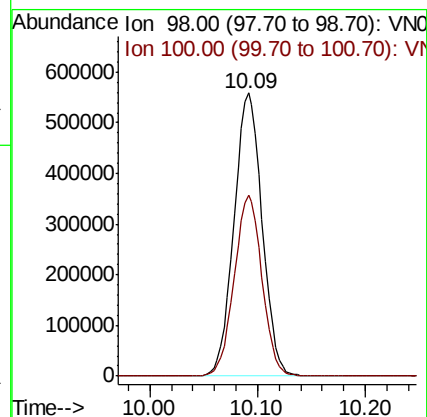
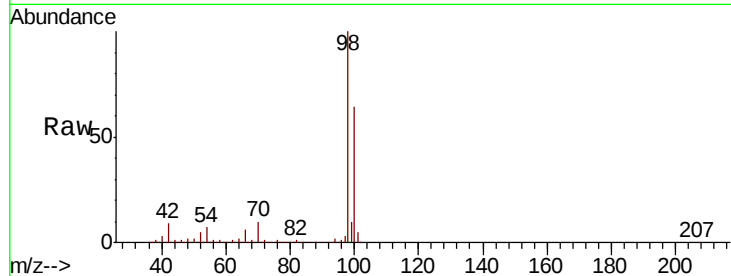
SPDES-1

Tot Ion: 98 Resp: 1015156

Ion Ratio Lower Upper

98 100

100 63.1 50.8 76.2



#72

1,2,3-Trichloropropane

Concen: 0.220 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN052015.D

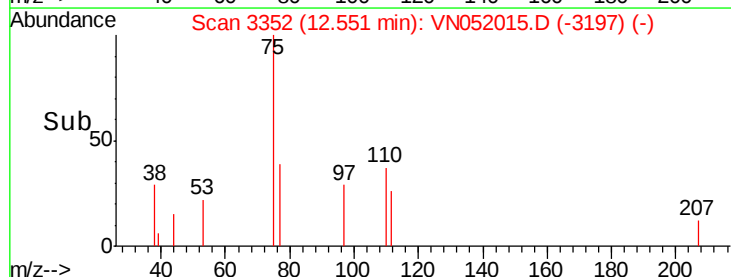
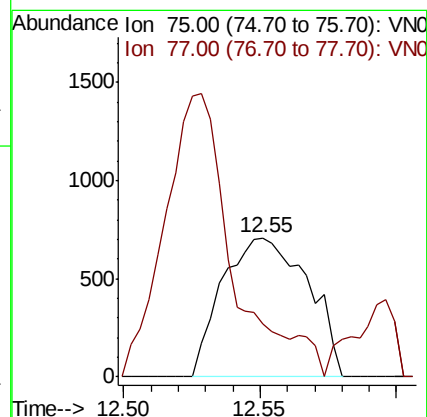
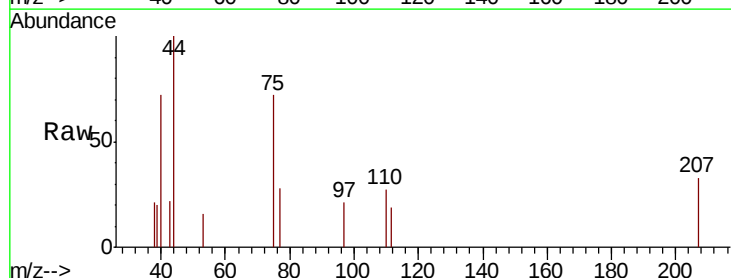
Acq: 25 Oct 2018 17:24

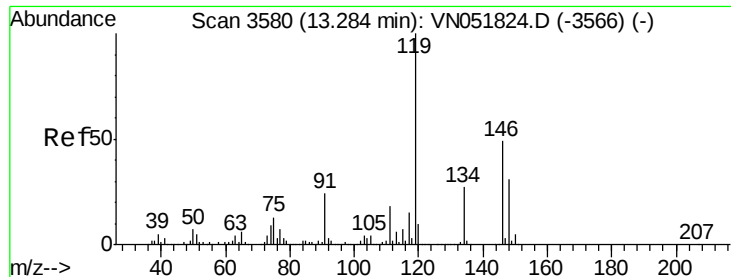
Tgt Ion: 75 Resp: 1550

Ion Ratio Lower Upper

75 100

77 137.9 0.0 400.0

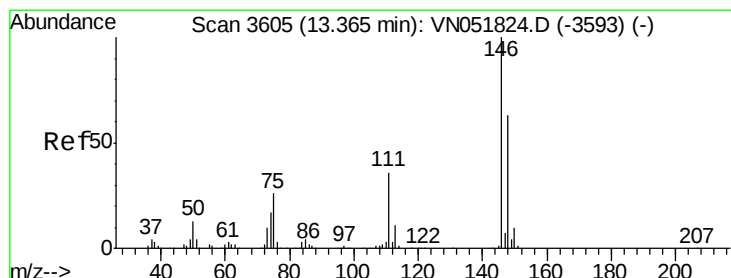
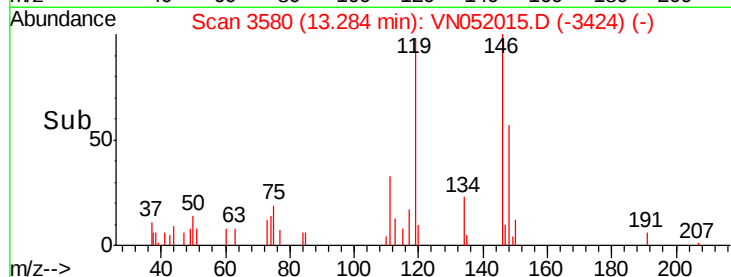
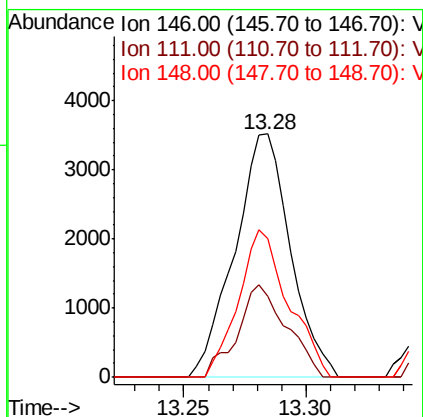
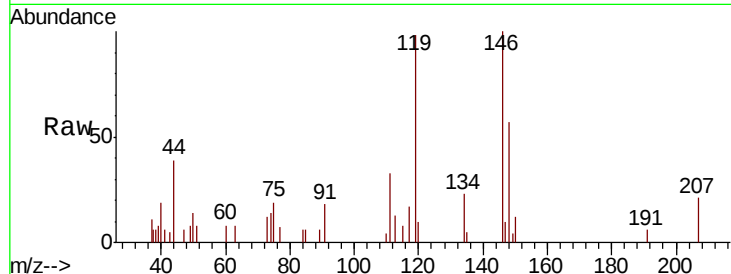




#83
 1,3-Dichlorobenzene
 Concen: 0.281 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

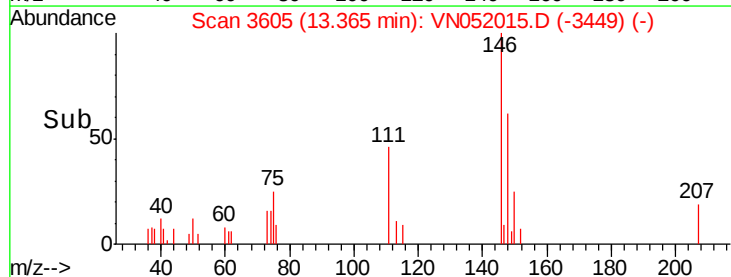
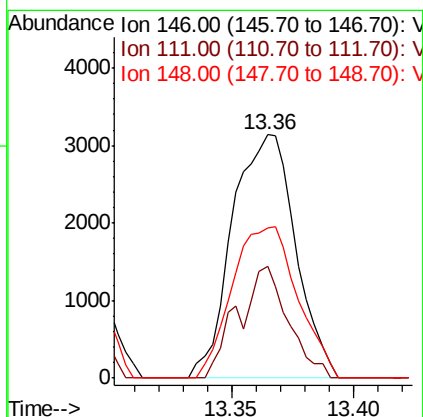
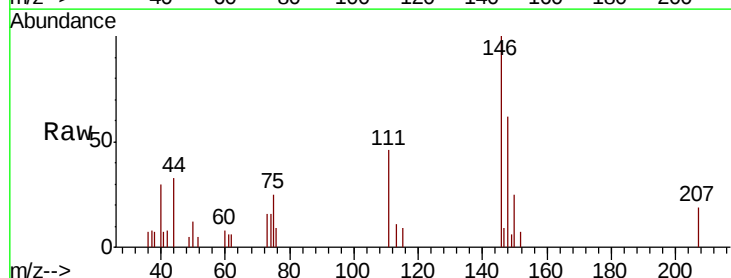
Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

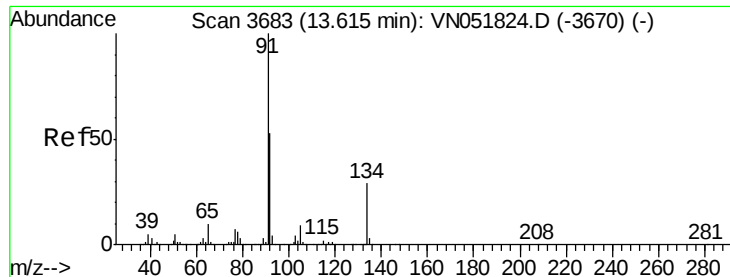
Tot Ion:146 Resp: 5574
 Ion Ratio Lower Upper
 146 100
 111 33.3 18.1 54.3
 148 54.0 31.3 93.8



#84
 1,4-Dichlorobenzene
 Concen: 0.303 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

Tgt Ion:146 Resp: 5644
 Ion Ratio Lower Upper
 146 100
 111 26.2 17.4 52.2
 148 64.5 32.8 98.3

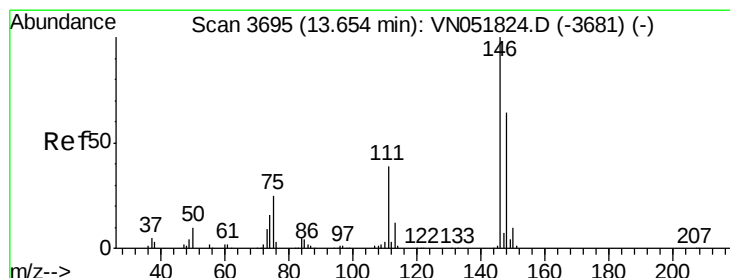
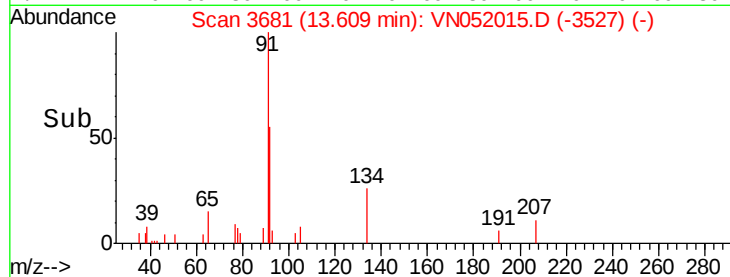
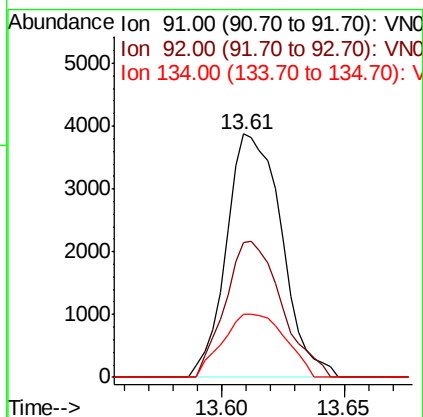
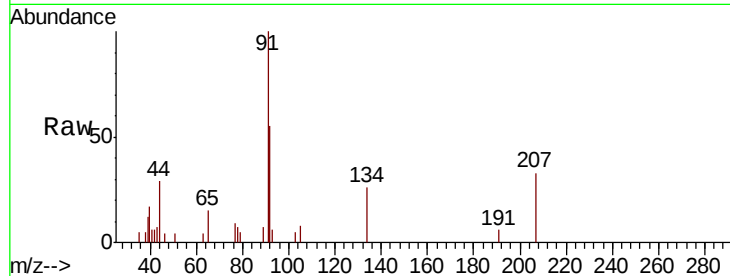




#85
n-Butylbenzene
Concen: 0.200 ug/l
RT: 13.61 min Scan# 3681
Delta R.T. -0.01 min
Lab File: VN052015.D
Acq: 25 Oct 2018 17:24

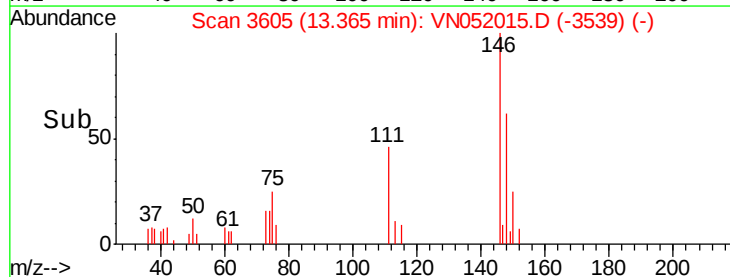
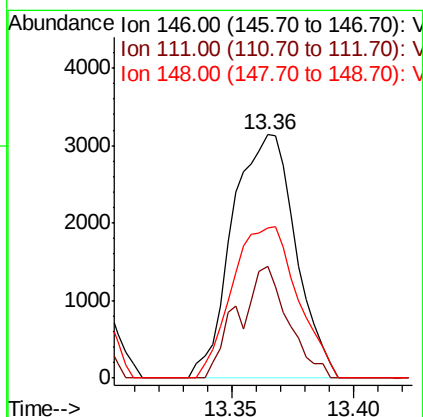
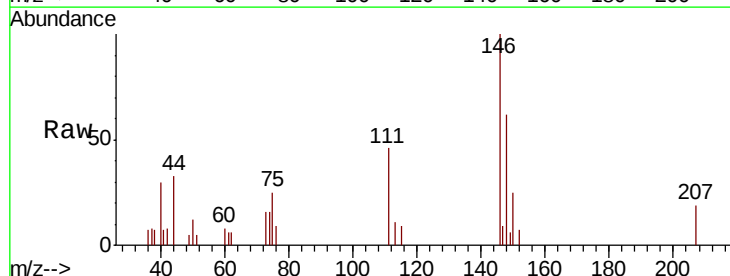
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

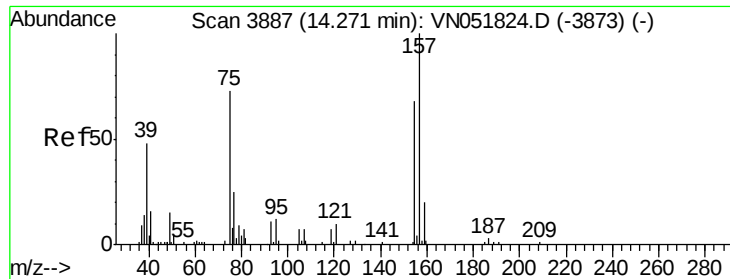
Tot Ion: 91 Resp: 6084
Ion Ratio Lower Upper
91 100
92 56.9 0.0 97.4
134 29.3 0.0 49.6



#87
1,2-Dichlorobenzene
Concen: 0.294 ug/l
RT: 13.36 min Scan# 3605
Delta R.T. -0.29 min
Lab File: VN052015.D
Acq: 25 Oct 2018 17:24

Tgt Ion: 146 Resp: 5644
Ion Ratio Lower Upper
146 100
111 26.2 20.8 62.2
148 64.5 33.2 99.6





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.370 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN052015.D

Acq: 25 Oct 2018 17:24

Instrument :

MSVOA_N

ClientSampled :

SPDES-1

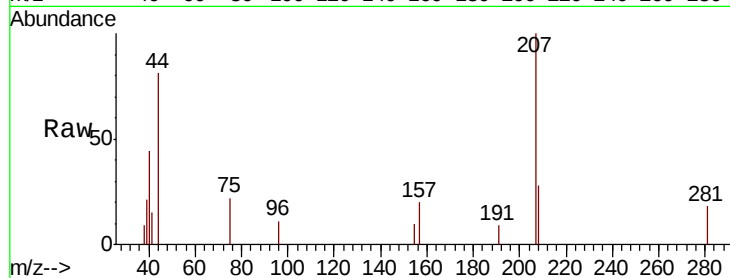
Tot Ion: 75 Resp: 494

Ion Ratio Lower Upper

75 100

155 49.4 57.0 85.6#

157 82.0 87.4 131.0#

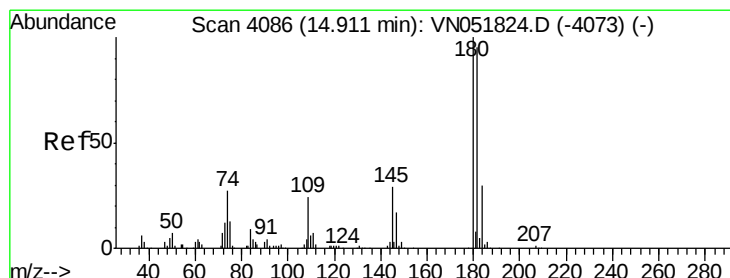
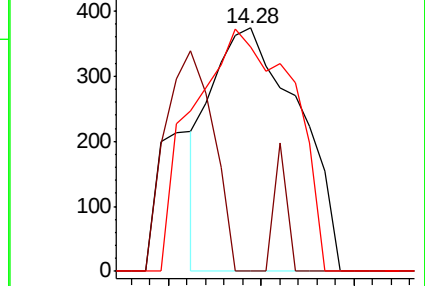
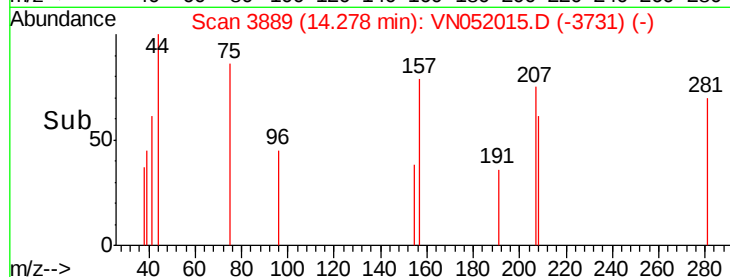


Abundance Ion 75.00 (74.70 to 75.70): VN051824.D (-3873) (-)

Ion 155.00 (154.70 to 155.70): VN051824.D (-3873) (-)

Ion 157.00 (156.70 to 157.70): VN051824.D (-3873) (-)

Time-->



#89

1,2,4-Trichlorobenzene

Concen: 8.494 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052015.D

Acq: 25 Oct 2018 17:24

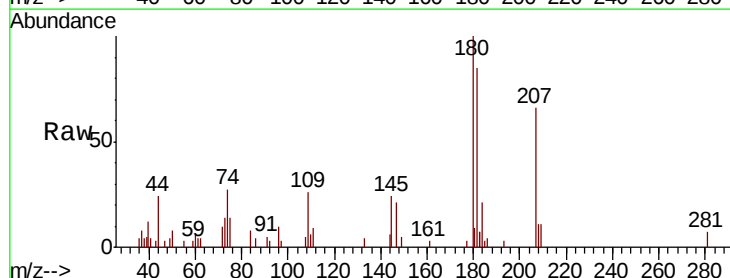
Tgt Ion: 180 Resp: 9702

Ion Ratio Lower Upper

180 100

182 90.7 77.7 116.5

145 26.4 23.4 35.2

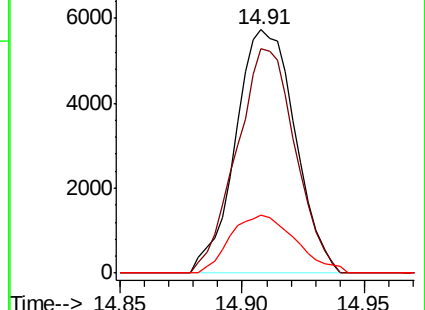
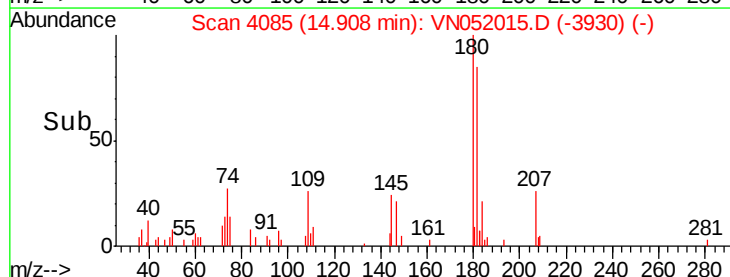


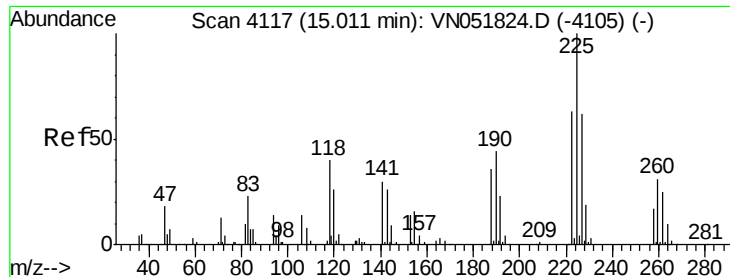
Abundance Ion 180.00 (179.70 to 180.70): VN051824.D (-4073) (-)

Ion 182.00 (181.70 to 182.70): VN051824.D (-4073) (-)

Ion 145.00 (144.70 to 145.70): VN051824.D (-4073) (-)

Time-->

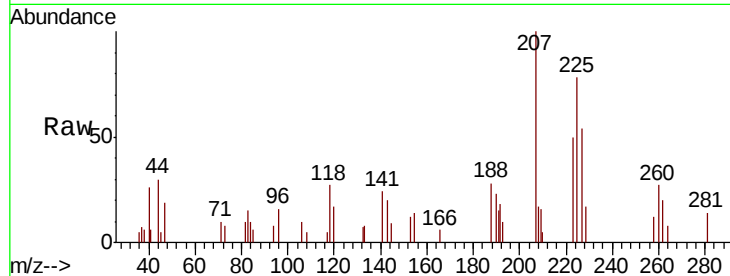




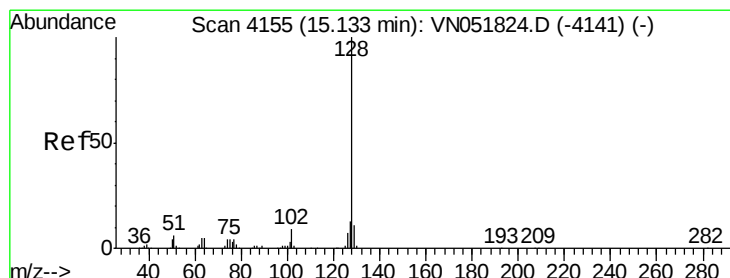
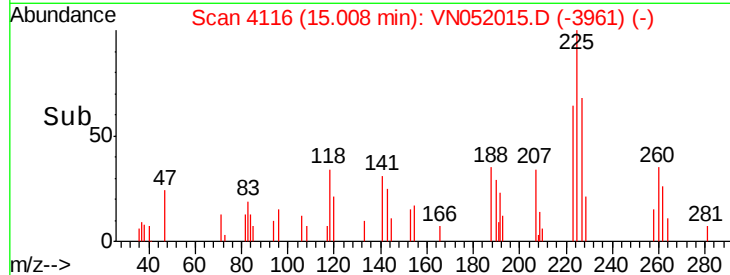
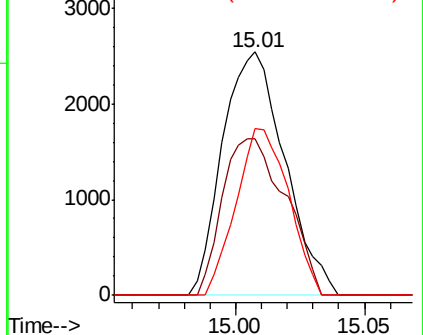
#90
Hexachlorobutadiene
Concen: 0.691 ug/l
RT: 15.01 min Scan# 4116
Delta R.T. -0.00 min
Lab File: VN052015.D
Acq: 25 Oct 2018 17:24

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tot Ion	Ratio	Lower	Upper
225	100		
223	65.3	0.0	117.0
227	57.8	0.0	127.0

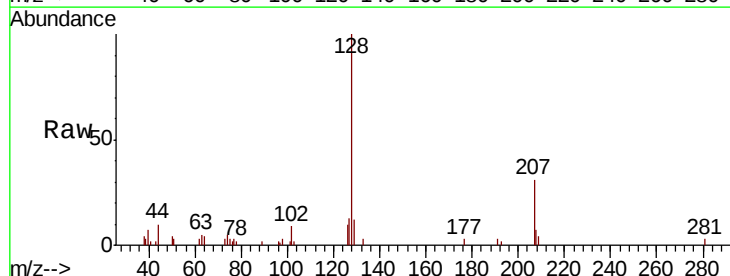


Abundance Ion 225.00 (224.70 to 225.70): V
Ion 223.00 (222.70 to 223.70): V
Ion 227.00 (226.70 to 227.70): V

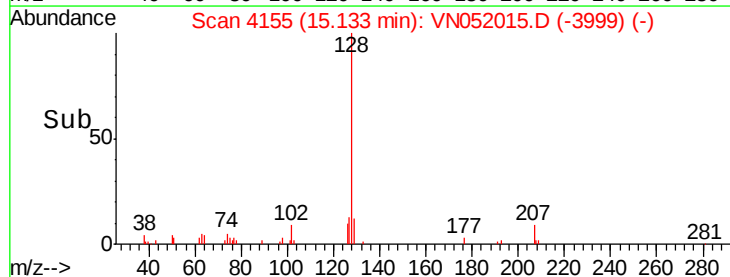
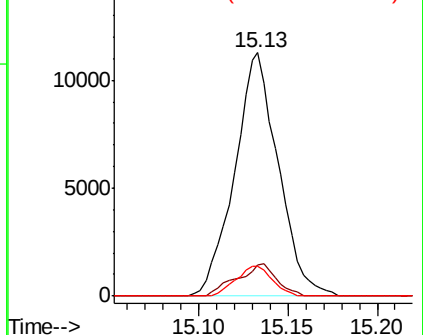


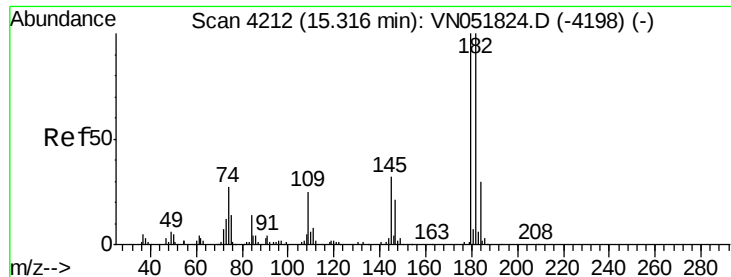
#91
Naphthalene
Concen: 9.266 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN052015.D
Acq: 25 Oct 2018 17:24

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.1	10.1	15.1
129	10.2	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: 1.173 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. -0.00 min
 Lab File: VN052015.D
 Acq: 25 Oct 2018 17:24

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion	Ratio	Lower	Upper
180	100		
182	84.1	0.0	198.0
145	33.0	0.0	36.8

