

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080318\
 Data File : VN050307.D
 Acq On : 3 Aug 2018 12:02
 Operator : MD\SY
 Sample : J4325-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Aug 03 23:07:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	109859	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	578451	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	446953	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	230656	30.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.97%
60) 4-Bromofluorobenzene	12.41	95	151160	22.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	73.37%
63) Toluene-d8	10.09	98	641513	30.05	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.17%

Target Compounds

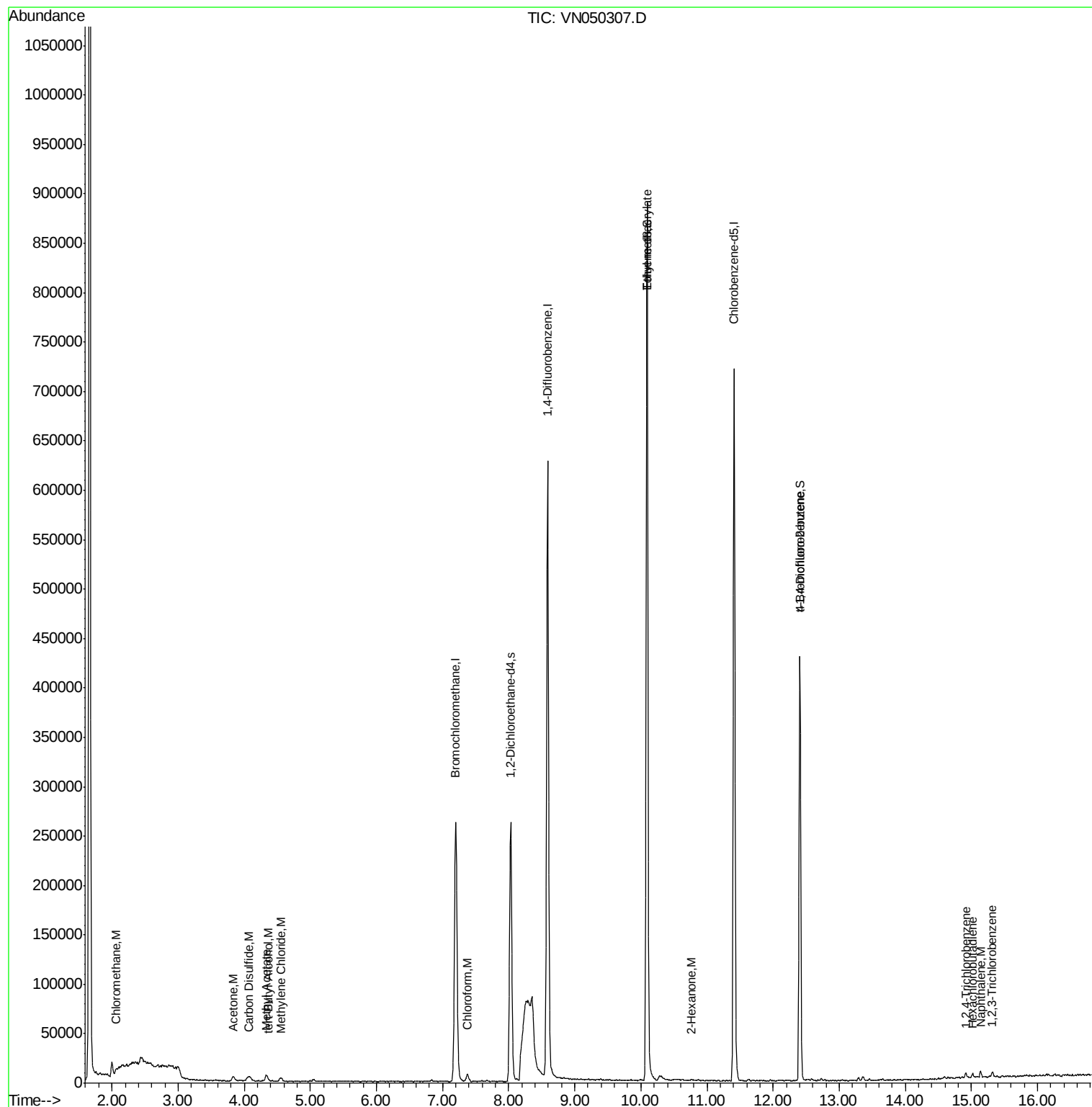
						Ovalue
3) Chloromethane	2.06	50	2266	0.29	ug/l	93
12) Methyl Acetate	4.33	43	11889	1.77	ug/l	93
15) Acetone	3.83	58	2648	4.45	ug/l #	49
16) Carbon Disulfide	4.05	76	6540	0.36	ug/l	95
18) Methylene Chloride	4.55	84	2282	0.34	ug/l #	70
23) tert-Butyl Alcohol	4.37	59	115	0.23	ug/l #	100
25) Chloroform	7.38	83	7993	0.66	ug/l	87
51) Ethyl methacrylate	10.09	69	2480	0.32	ug/l	92
59) 2-Hexanone	10.77	43	717	0.20	ug/l #	61
77) t-1,4-Dichloro-2-butene	12.40	75	72903	37.42	ug/l #	14
89) 1,2,4-Trichlorobenzene	14.91	180	1857	0.34	ug/l	92
90) Hexachlorobutadiene	15.01	225	727	0.20	ug/l	72
91) Naphthalene	15.14	128	5254	7.94	ug/l	97
92) 1,2,3-Trichlorobenzene	15.32	180	2207	0.39	ug/l	97

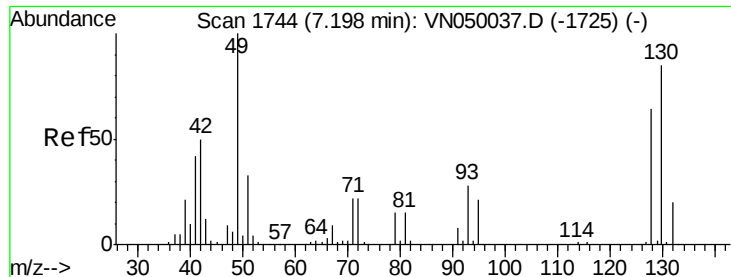
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 03 23:07:19 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Jul 26 15:21:50 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. 0.00 min

Lab File: VN050307.D

Acq: 3 Aug 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

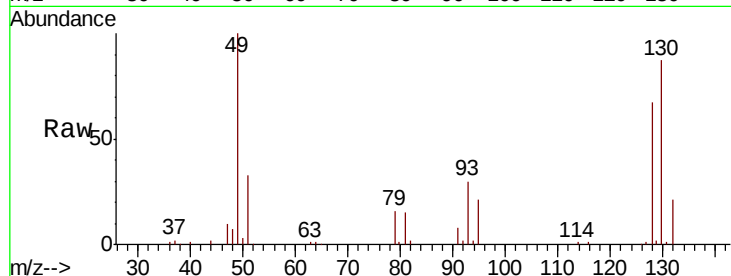
Tot Ion:128 Resp: 109859

Ion Ratio Lower Upper

128 100

49 152.9 0.0 378.3

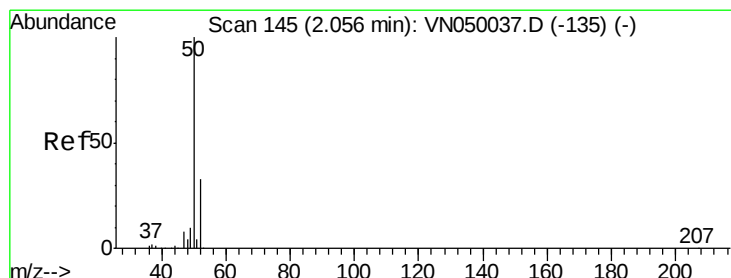
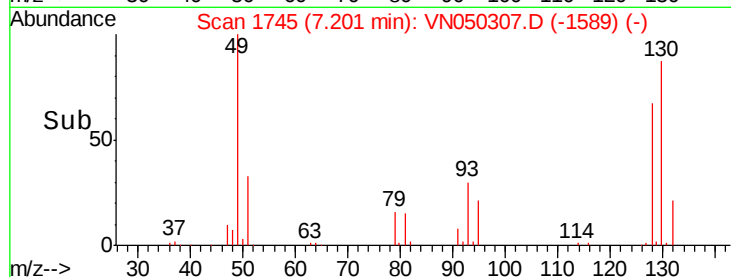
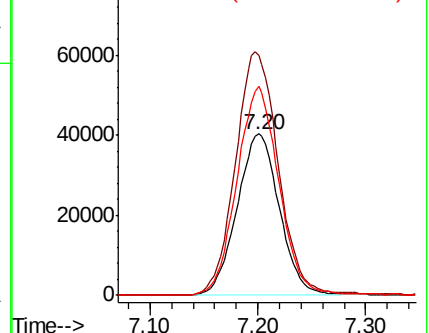
130 129.0 0.0 320.7



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



#3

Chloromethane

Concen: 0.29 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050307.D

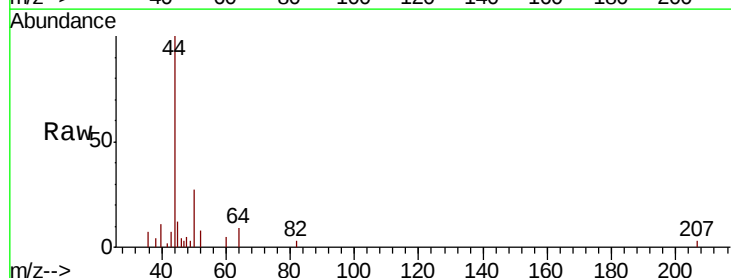
Acq: 3 Aug 2018 12:02

Tgt Ion: 50 Resp: 2266

Ion Ratio Lower Upper

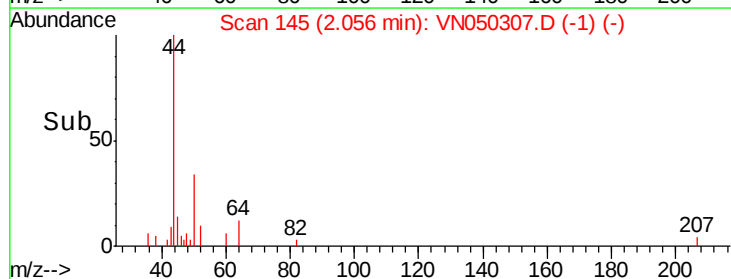
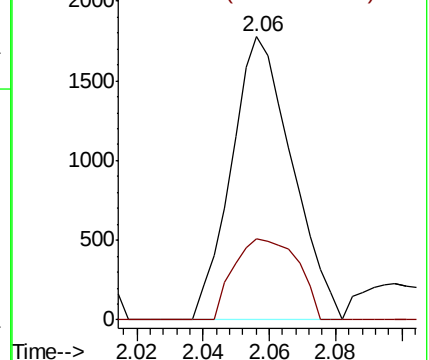
50 100

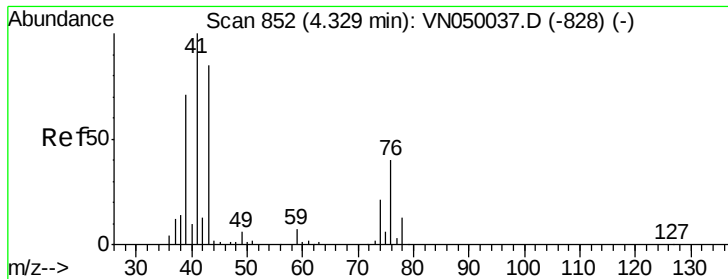
52 28.5 26.1 39.1



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

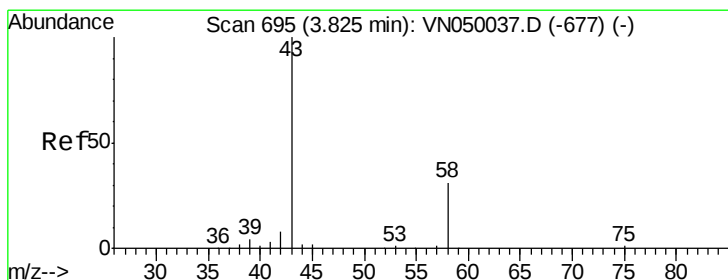
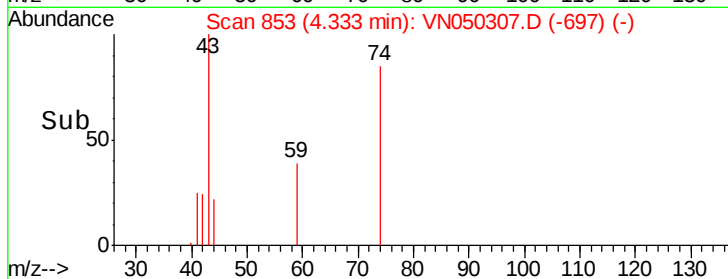
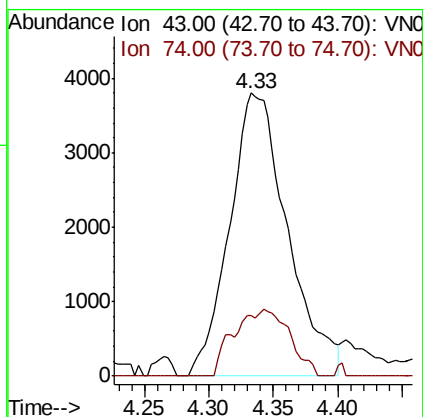
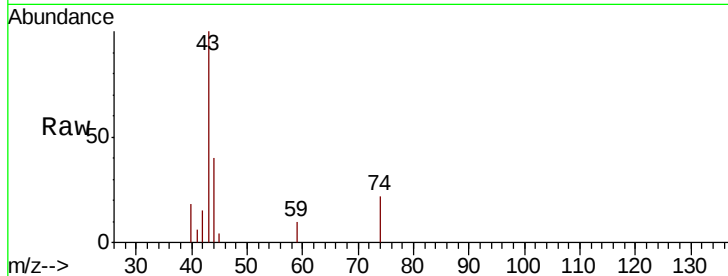




#12
Methvl Acetate
Concen: 1.77 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

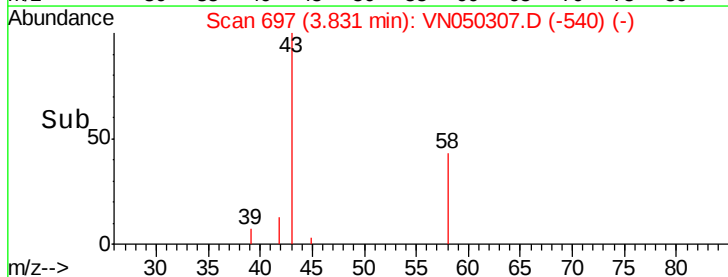
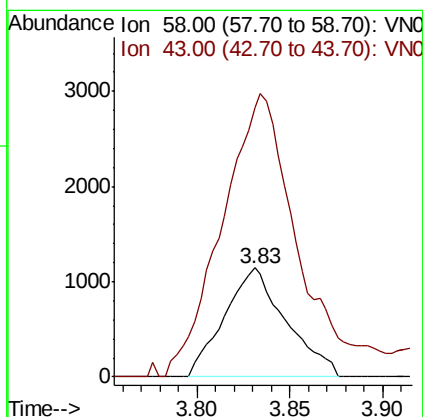
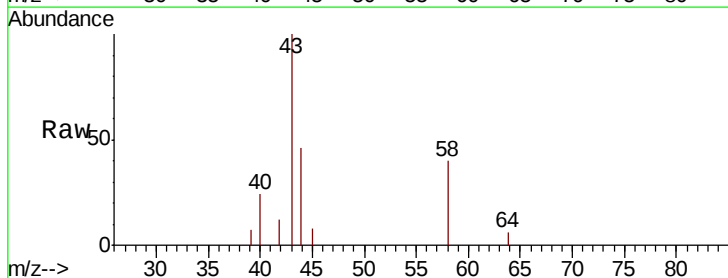
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

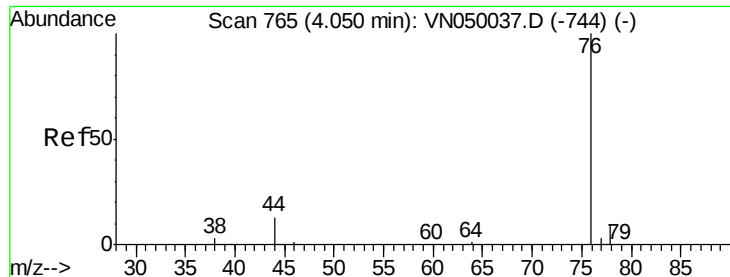
Tot Ion: 43 Resp: 11889
Ion Ratio Lower Upper
43 100
74 20.7 19.3 28.9



#15
Acetone
Concen: 4.45 ug/l
RT: 3.83 min Scan# 697
Delta R.T. 0.01 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

Tgt Ion: 58 Resp: 2648
Ion Ratio Lower Upper
58 100
43 212.1 252.0 378.0#

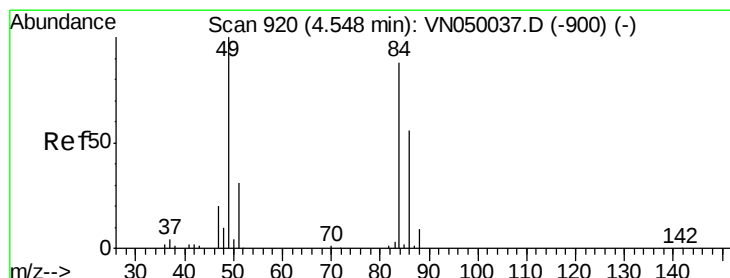
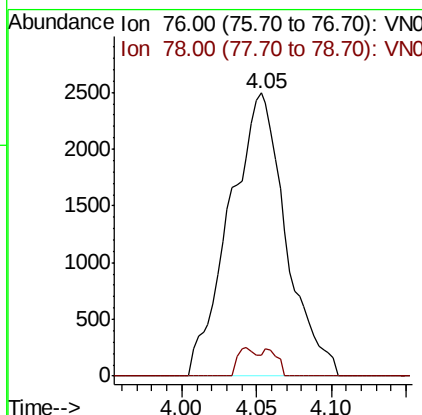
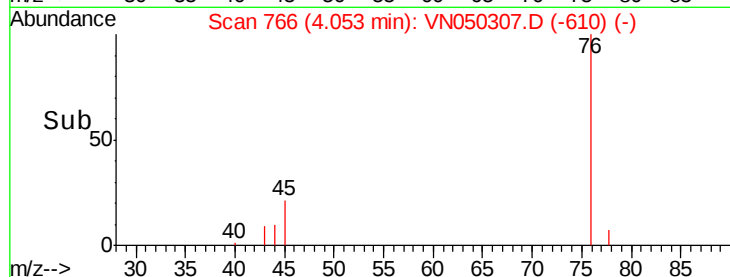
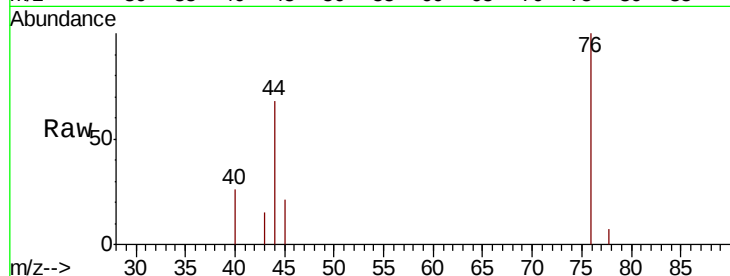




#16
Carbon Disulfide
Concen: 0.36 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

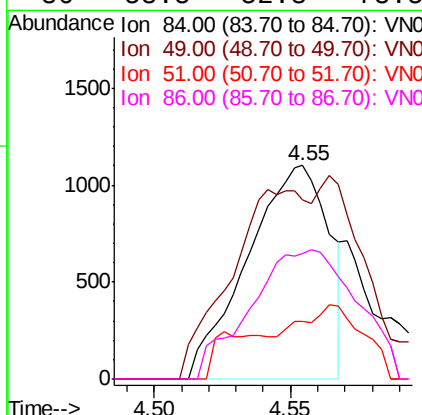
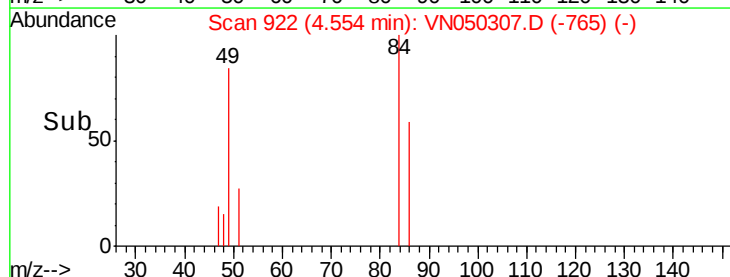
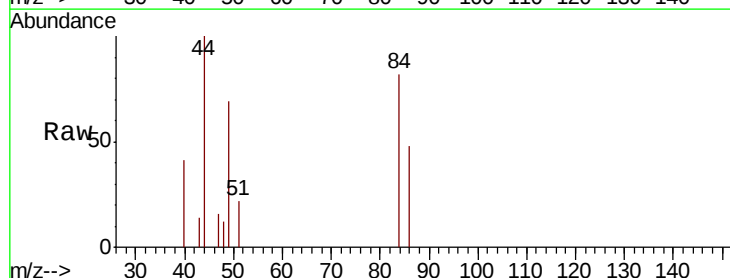
Instrument :
MSVOA_N
ClientSampled :
SPDES-1

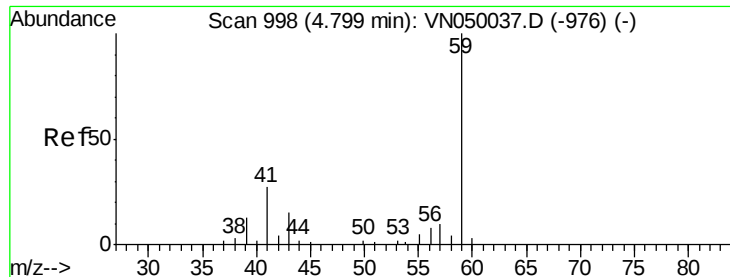
Tot Ion: 76 Resp: 6540
Ion Ratio Lower Upper
76 100
78 7.3 7.3 10.9



#18
Methylene Chloride
Concen: 0.34 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

Tgt Ion: 84 Resp: 2282
Ion Ratio Lower Upper
84 100
49 67.4 95.1 142.7#
51 27.1 28.8 43.2#
86 58.5 52.3 78.5



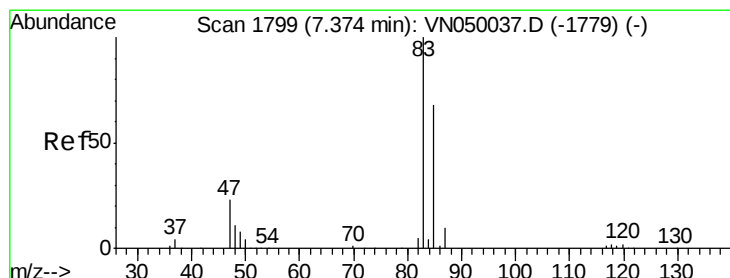
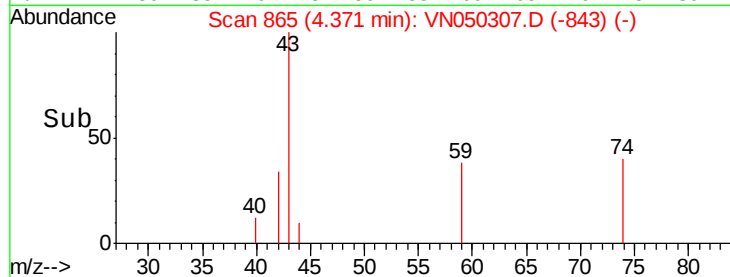
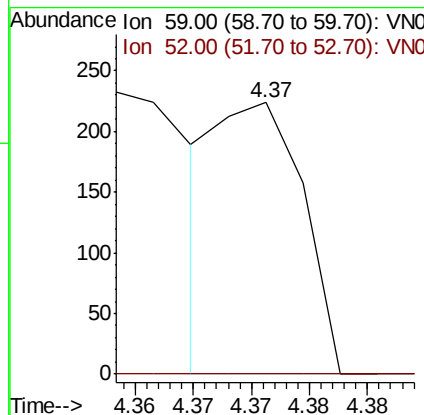
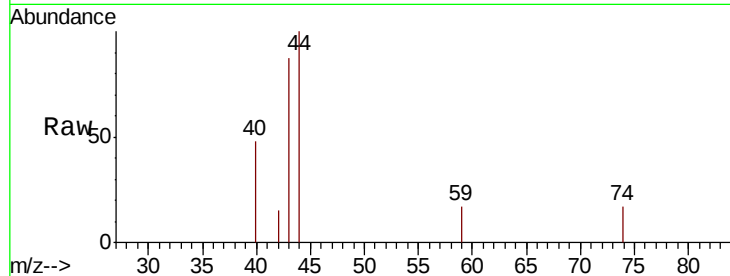


#23

tert-Butyl Alcohol
 Concen: 0.23 ug/l
 RT: 4.37 min Scan# 865
 Delta R.T. -0.43 min
 Lab File: VN050307.D
 Acq: 3 Aug 2018 12:02

Instrument :
 MSVOA_N
 ClientSampled :
 SPDES-1

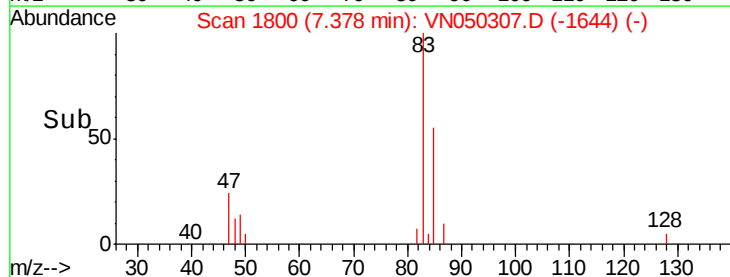
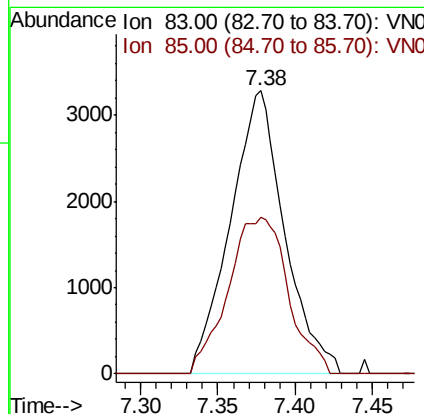
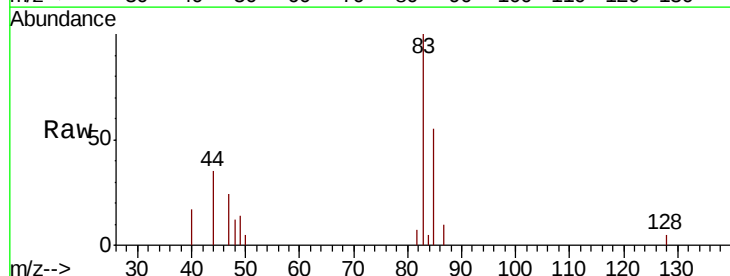
Tot Ion: 59 Resp: 115
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

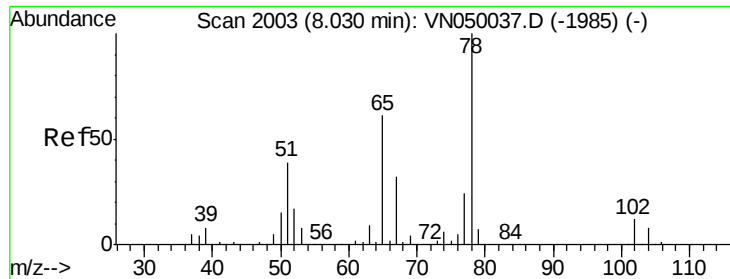


#25

Chloroform
 Concen: 0.66 ug/l
 RT: 7.38 min Scan# 1800
 Delta R.T. 0.00 min
 Lab File: VN050307.D
 Acq: 3 Aug 2018 12:02

Tgt Ion: 83 Resp: 7993
 Ion Ratio Lower Upper
 83 100
 85 55.1 52.1 78.1

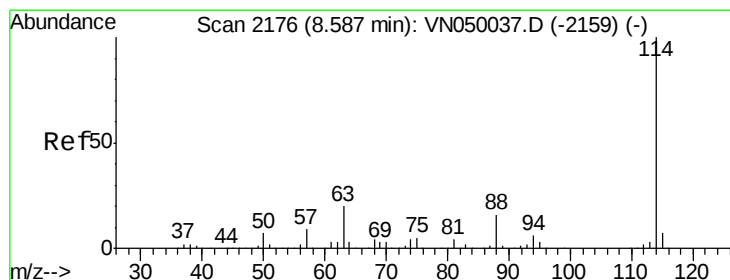
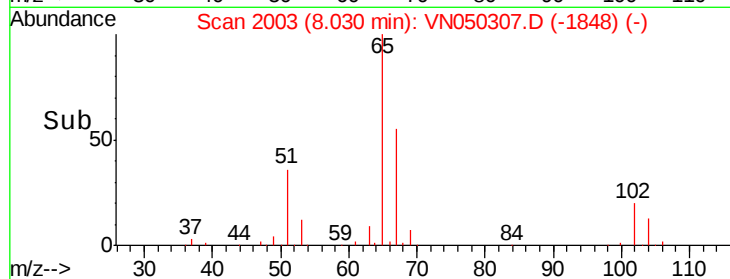
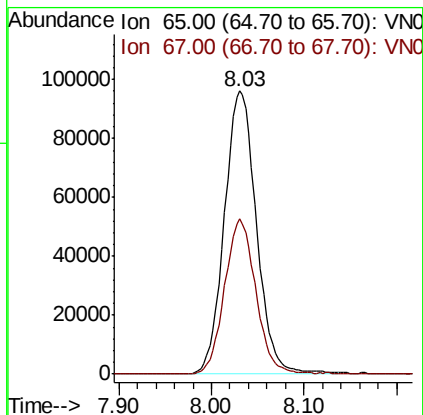
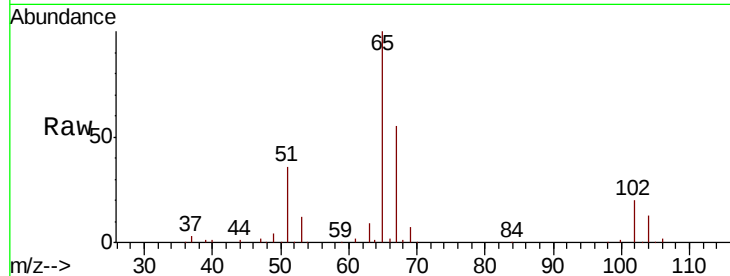




#27
 1,2-Dichloroethane-d4
 Concen: 30.89 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN050307.D
 Acq: 3 Aug 2018 12:02

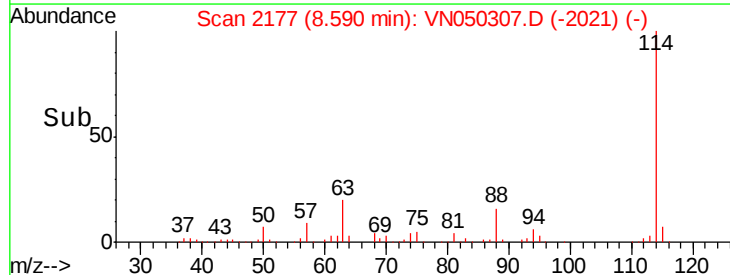
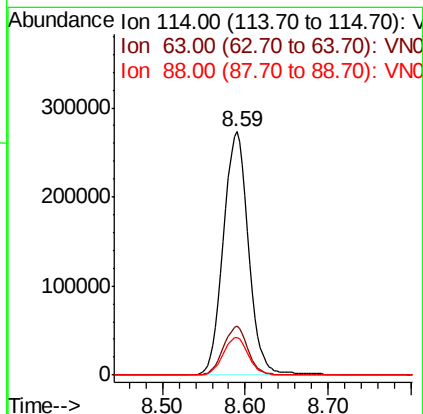
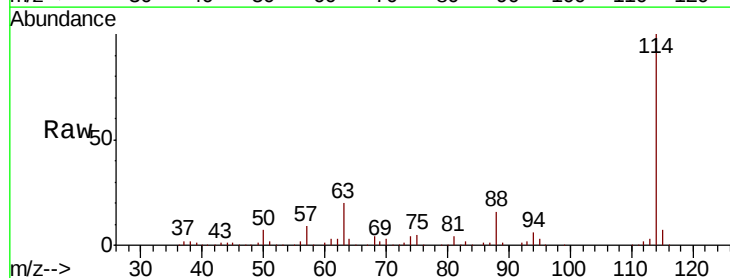
Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

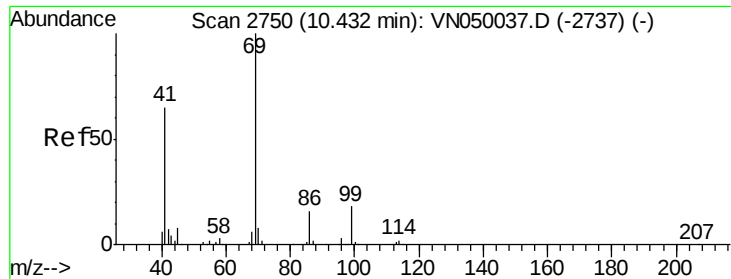
Tot Ion: 65 Resp: 230656
 Ion Ratio Lower Upper
 65 100
 67 53.1 42.7 64.1



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050307.D
 Acq: 3 Aug 2018 12:02

Tgt Ion: 114 Resp: 578451
 Ion Ratio Lower Upper
 114 100
 63 19.8 16.2 24.2
 88 15.3 12.3 18.5

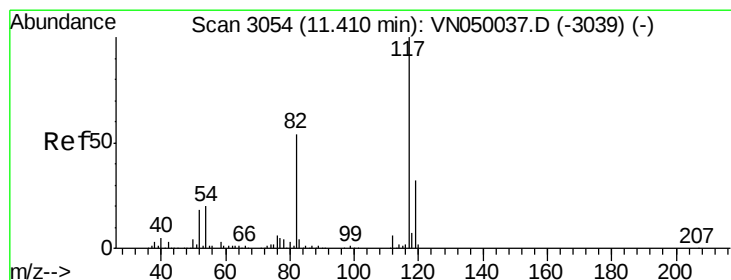
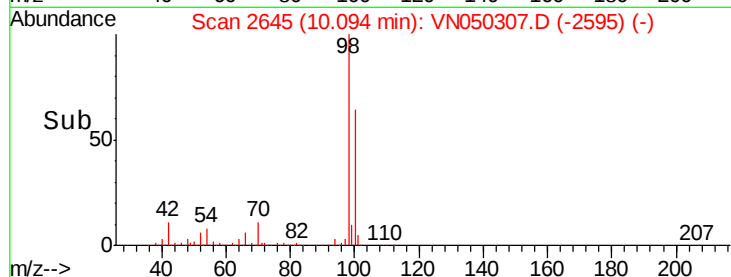
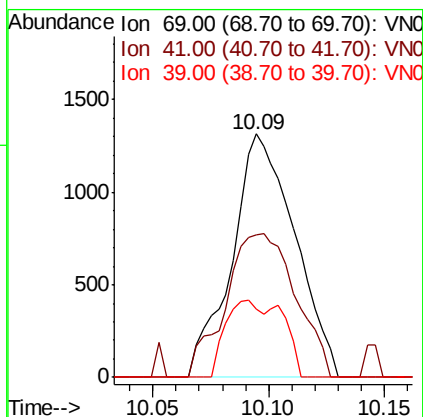
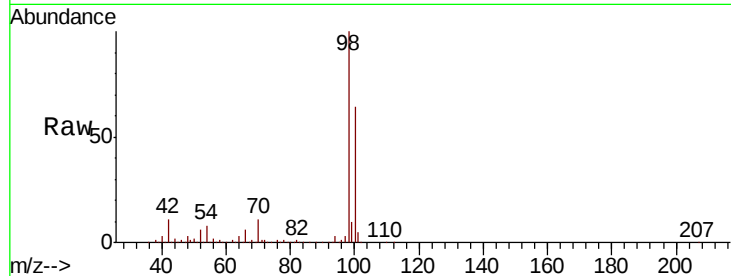




#51
Ethyl methacrylate
Concen: 0.32 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. -0.34 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

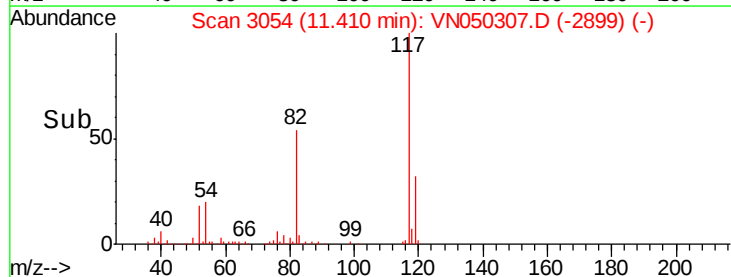
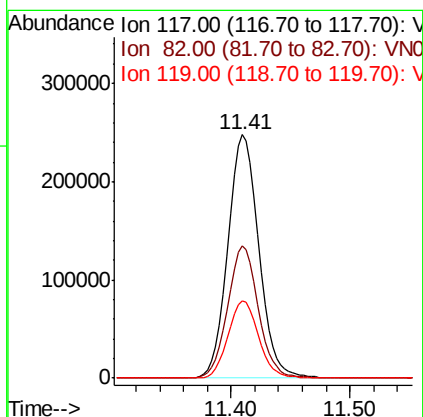
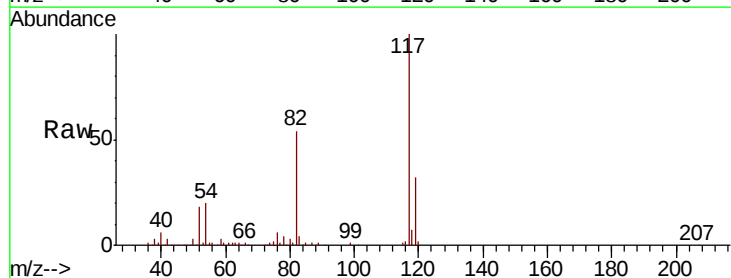
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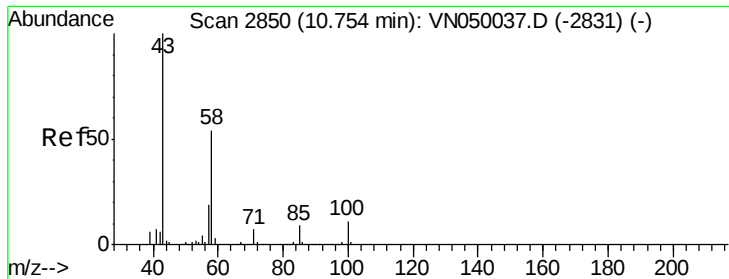
Tot Ion: 69 Resp: 2480
Ion Ratio Lower Upper
69 100
41 58.7 31.9 95.9
39 28.1 16.7 50.1



#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

Tgt Ion: 117 Resp: 446953
Ion Ratio Lower Upper
117 100
82 53.9 42.4 63.6
119 31.5 25.4 38.0

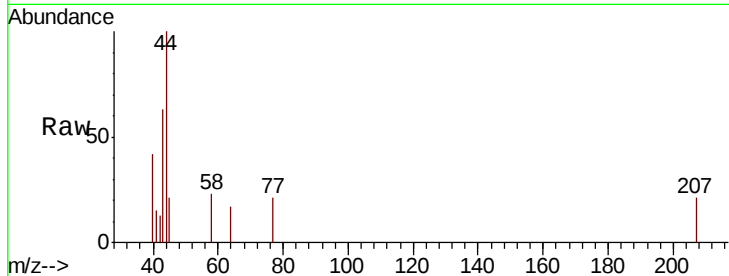




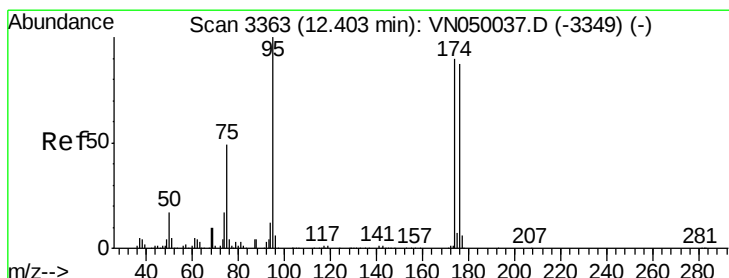
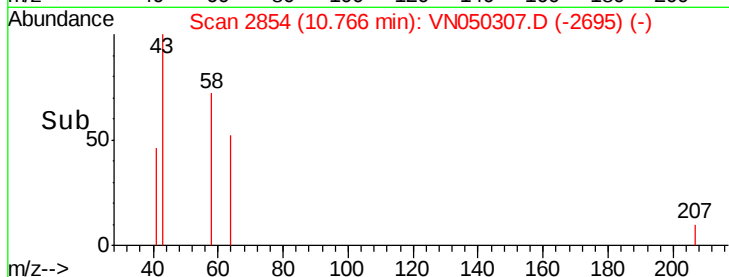
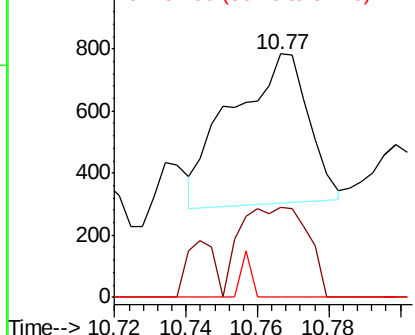
#59
2-Hexanone
Concen: 0.20 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tot Ion: 43 Resp: 717
Ion Ratio Lower Upper
43 100
58 26.9 43.8 65.8#
57 0.0 15.1 22.7#

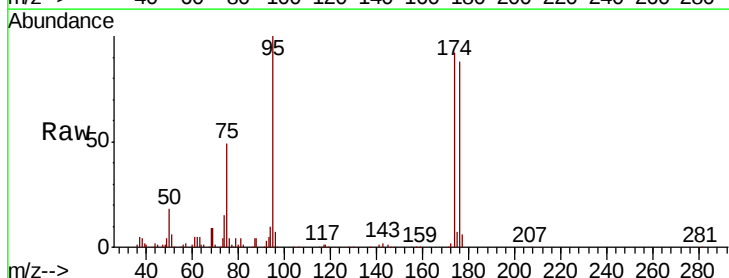


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

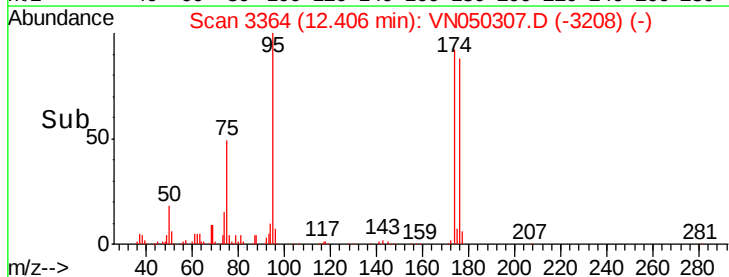
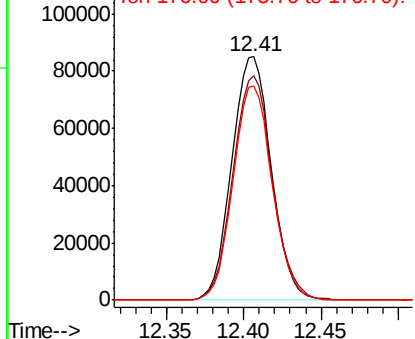


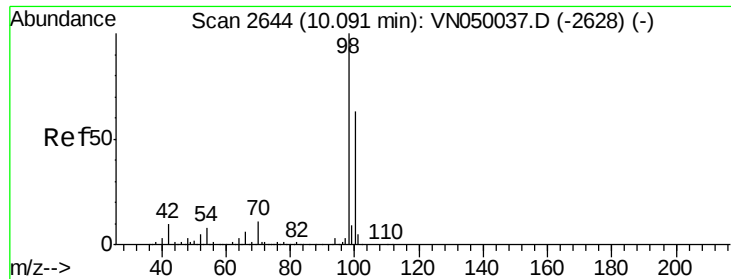
#60
4-Bromofluorobenzene
Concen: 22.01 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.00 min
Lab File: VN050307.D
Acq: 3 Aug 2018 12:02

Tgt Ion: 95 Resp: 151160
Ion Ratio Lower Upper
95 100
174 92.0 72.3 108.5
176 87.3 70.0 105.0



Abundance Ion 95.00 (94.70 to 95.70): VN0
Ion 174.00 (173.70 to 174.70): V
Ion 176.00 (175.70 to 176.70): V





#63

Toluene-d8

Concen: 30.05 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN050307.D

Acq: 3 Aug 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

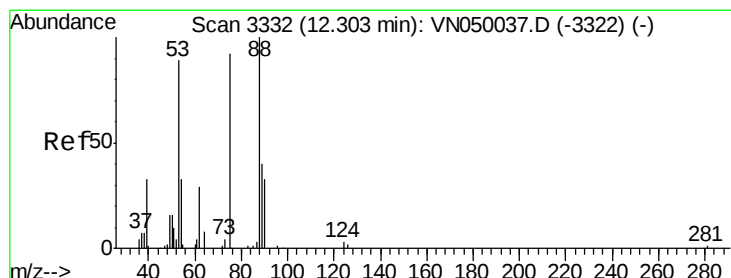
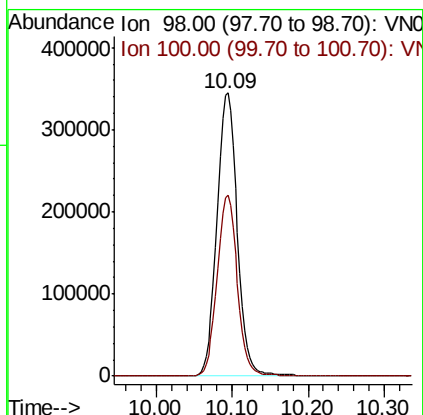
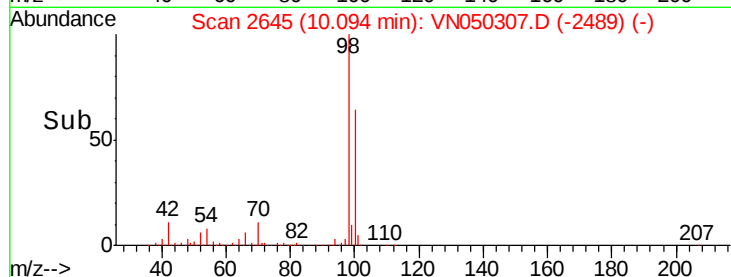
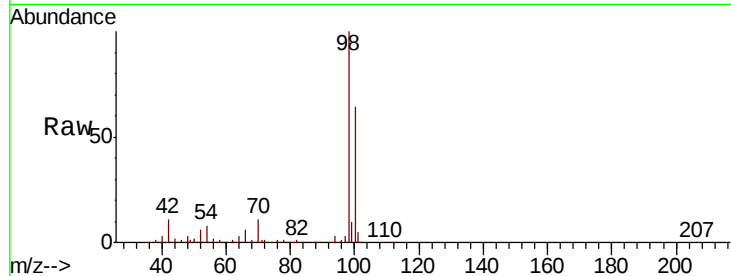
SPDES-1

Tot Ion: 98 Resp: 641513

Ion Ratio Lower Upper

98 100

100 63.2 51.2 76.8



#77

t-1,4-Dichloro-2-butene

Concen: 37.42 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050307.D

Acq: 3 Aug 2018 12:02

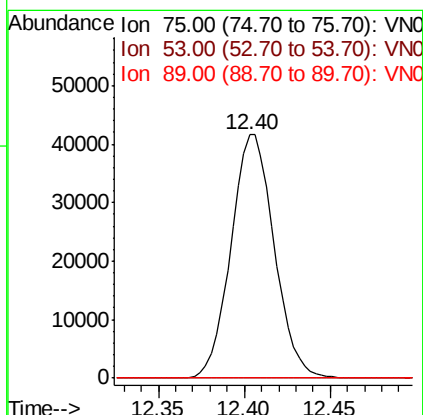
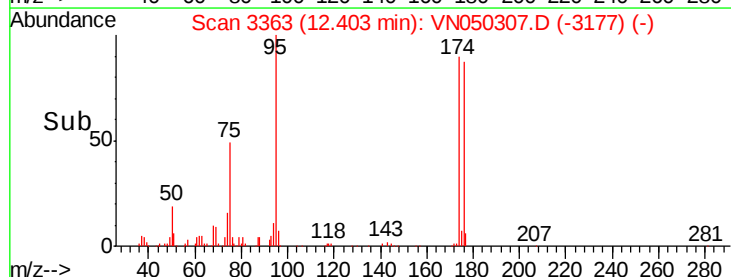
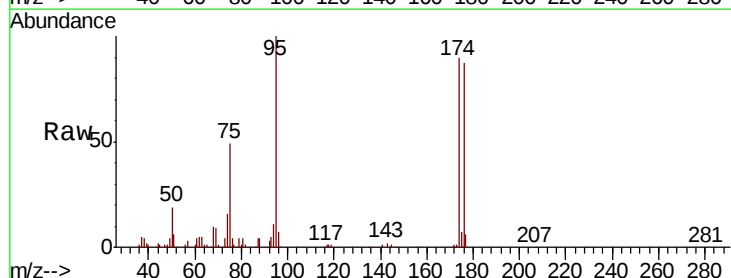
Tgt Ion: 75 Resp: 72903

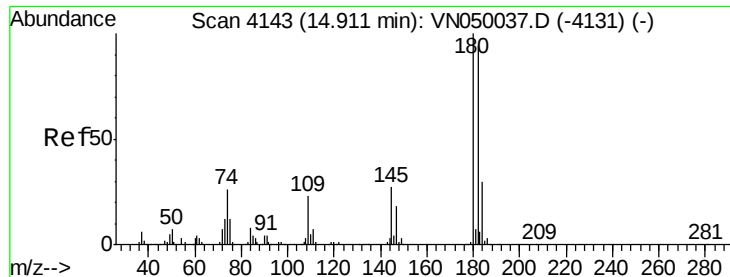
Ion Ratio Lower Upper

75 100

53 0.0 44.6 134.0#

89 0.0 20.7 62.1#

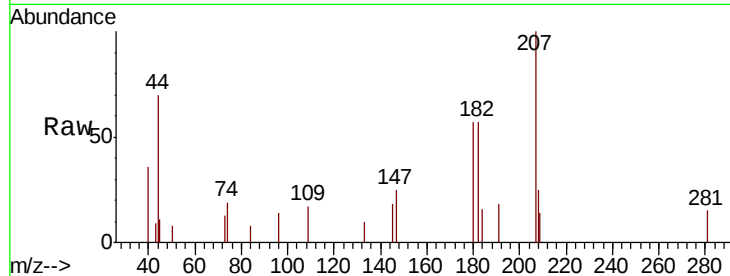




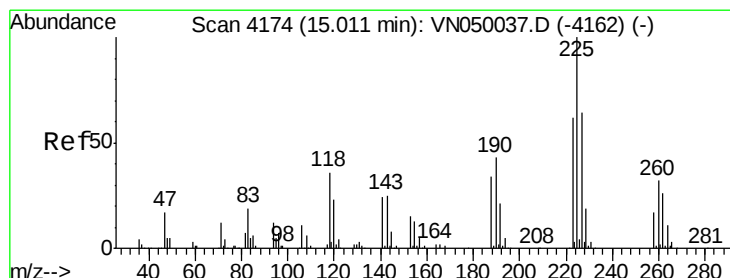
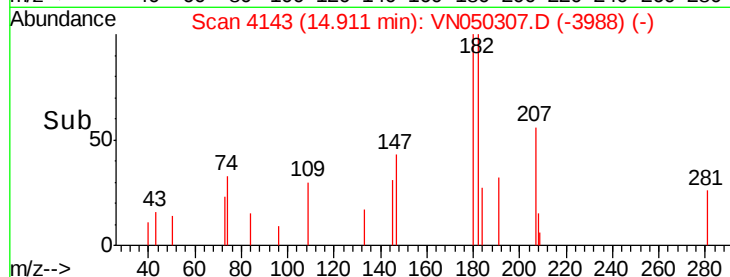
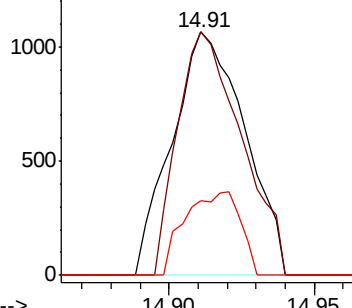
#89
 1,2,4-Trichlorobenzene
 Concen: 0.34 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050307.D
 Acq: 3 Aug 2018 12:02

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tot Ion:180 Resp: 1857
 Ion Ratio Lower Upper
 180 100
 182 87.3 76.7 115.1
 145 26.1 23.4 35.0

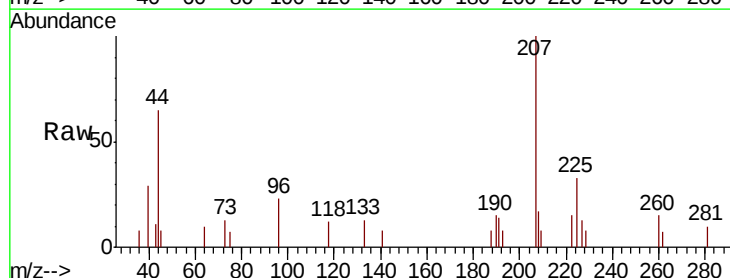


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

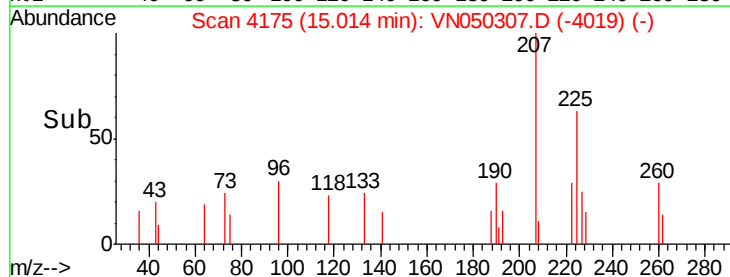
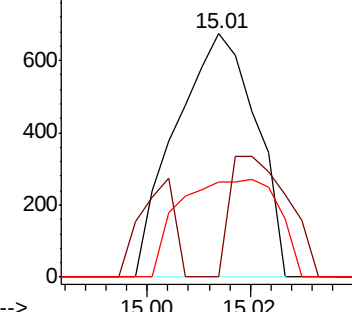


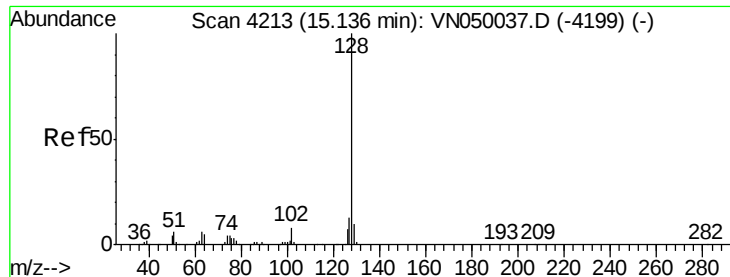
#90
 Hexachlorobutadiene
 Concen: 0.20 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050307.D
 Acq: 3 Aug 2018 12:02

Tgt Ion:225 Resp: 727
 Ion Ratio Lower Upper
 225 100
 223 35.8 0.0 124.4
 227 49.0 0.0 133.0



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: 7.94 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. -0.00 min

Lab File: VN050307.D

Acq: 3 Aug 2018 12:02

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

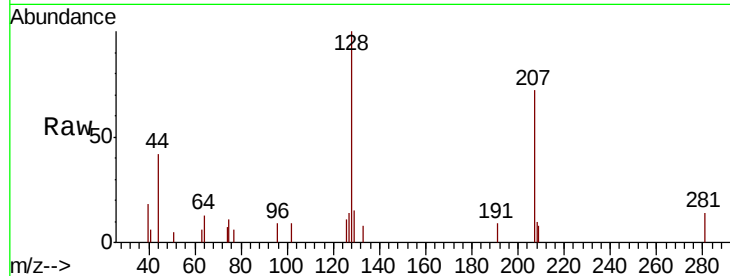
Tot Ion:128 Resp: 5254

Ion Ratio Lower Upper

128 100

127 14.3 10.2 15.4

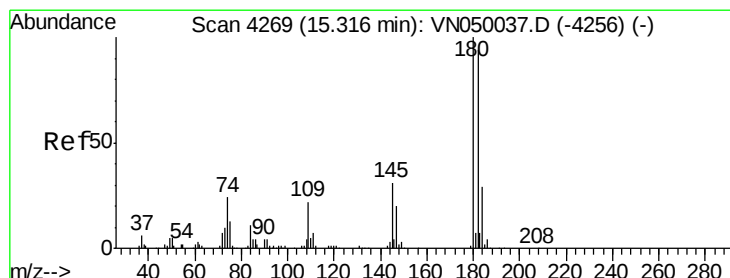
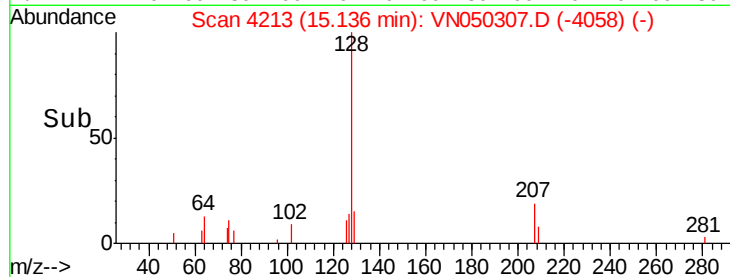
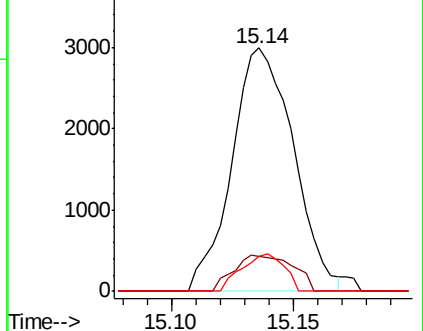
129 10.6 9.0 13.4



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: 0.39 ug/l

RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN050307.D

Acq: 3 Aug 2018 12:02

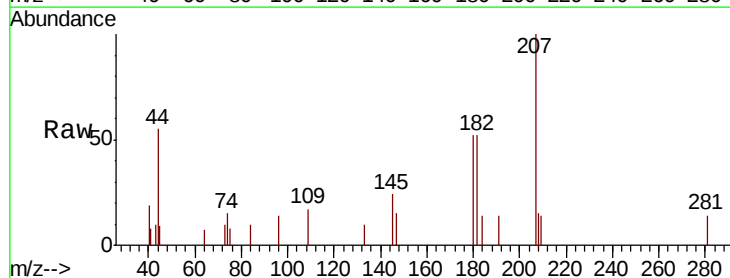
Tgt Ion:180 Resp: 2207

Ion Ratio Lower Upper

180 100

182 95.5 0.0 188.8

145 34.5 0.0 60.8



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

