

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081719\
 Data File : VN057355.D
 Acq On : 16 Aug 2019 15:04
 Operator : JC/SP
 Sample : K4381-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Quant Time: Aug 17 03:26:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N081719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Aug 16 15:42:00 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.18	128	139276	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	766891	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	592284	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	273269	30.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.73%
60) 4-Bromofluorobenzene	12.40	95	184593	21.17	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	70.57%
63) Toluene-d8	10.08	98	879150	32.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	109.70%

Target Compounds

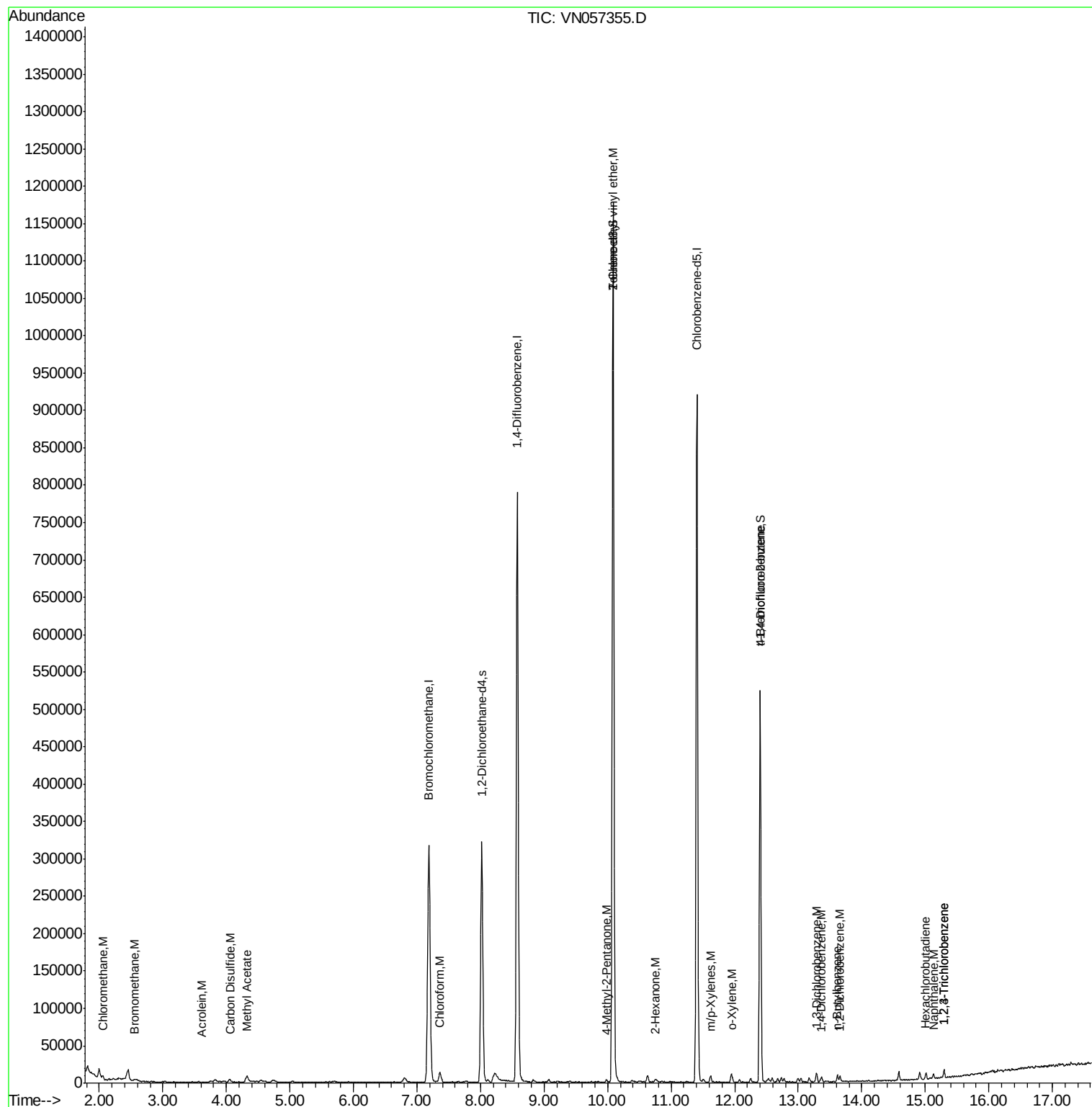
					Qvalue	
3) Chloromethane	2.06	50	1759	0.212	ug/l #	88
5) Bromomethane	2.55	94	1738	0.281	ug/l	87
12) Methyl Acetate	4.33	43	14854	1.759	ug/l	94
13) Acrolein	3.62	56	198	0.248	ug/l	92
16) Carbon Disulfide	4.05	76	7214	0.351	ug/l	99
25) Chloroform	7.36	83	13804	0.935	ug/l	95
55) 2-Chloroethyl vinyl ether	10.09	63	635	0.224	ug/l #	1
58) 4-Methyl-2-Pentanone	9.98	43	2431	0.315	ug/l #	82
59) 2-Hexanone	10.76	43	3636	0.657	ug/l #	62
67) m/p-Xylenes	11.62	106	3337	0.250	ug/l	98
68) o-Xylene	11.95	106	3323	0.254	ug/l	85
77) t-1,4-Dichloro-2-butene	12.40	75	86196	27.755	ug/l #	11
83) 1,3-Dichlorobenzene	13.28	146	3466	0.255	ug/l	82
84) 1,4-Dichlorobenzene	13.37	146	3782	0.298	ug/l	71
85) n-Butylbenzene	13.62	91	6131	0.288	ug/l	99
87) 1,2-Dichlorobenzene	13.66	146	3758	0.293	ug/l	96
89) 1,2,4-Trichlorobenzene	15.30	180	3436	0.756	ug/l	92
90) Hexachlorobutadiene	15.01	225	1981	0.342	ug/l	84
91) Naphthalene	15.13	128	5137	0.523	ug/l #	86
92) 1,2,3-Trichlorobenzene	15.30	180	3436	0.798	ug/l	91

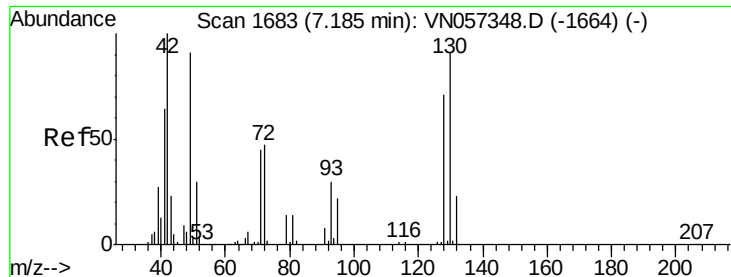
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.18 min Scan# 1683

Delta R.T. -0.00 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

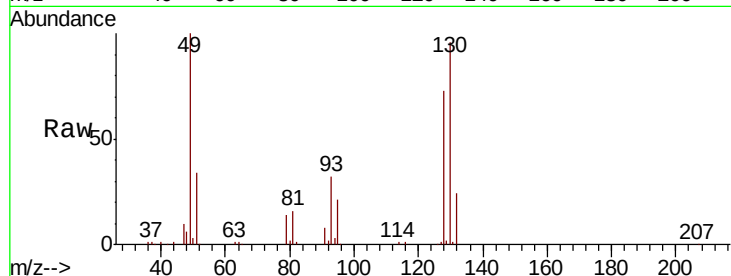
Tgt Ion:128 Resp: 139276

Ion Ratio Lower Upper

128 100

49 139.1 0.0 390.5

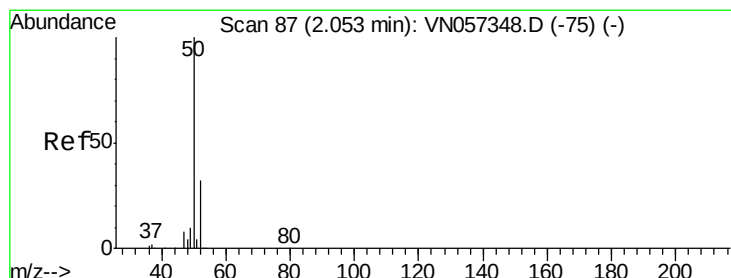
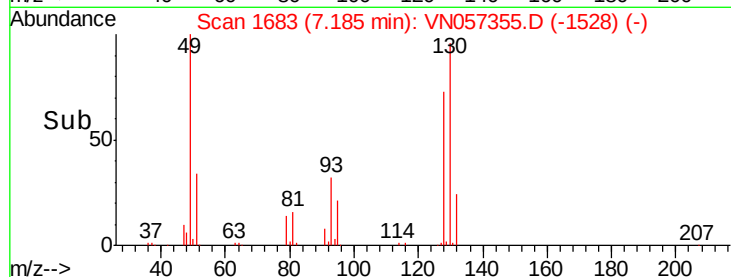
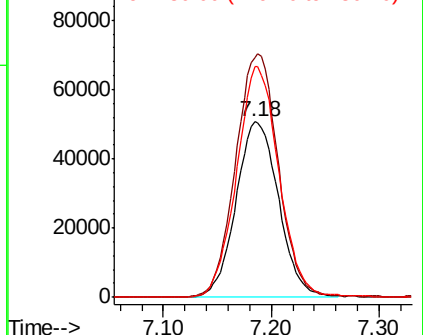
130 130.1 0.0 316.5



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: 0.212 ug/l

RT: 2.06 min Scan# 88

Delta R.T. -0.00 min

Lab File: VN057355.D

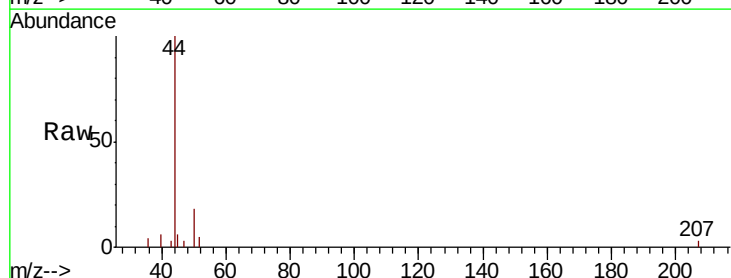
Acq: 16 Aug 2019 15:04

Tgt Ion: 50 Resp: 1759

Ion Ratio Lower Upper

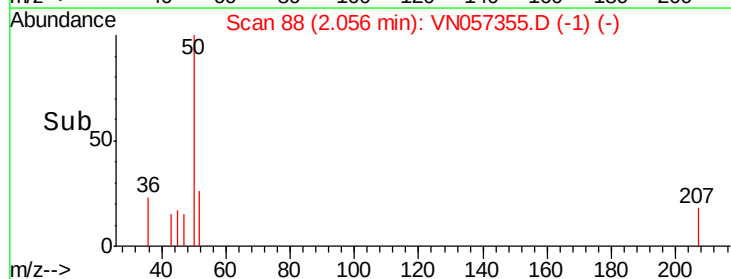
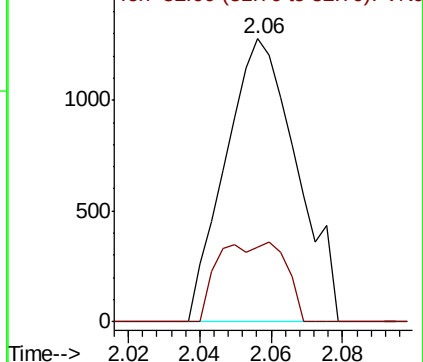
50 100

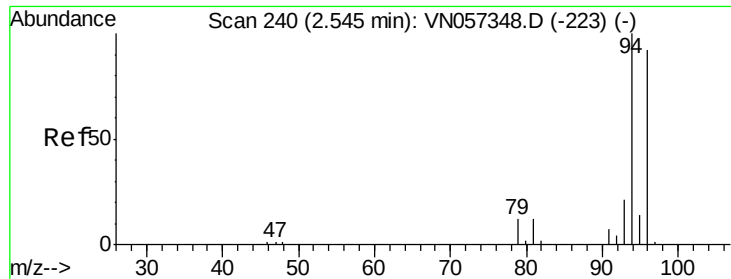
52 26.2 26.5 39.7#



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

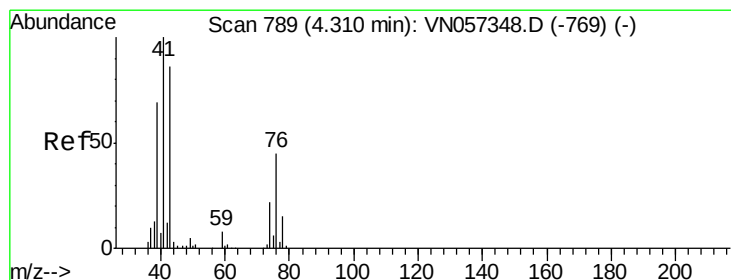
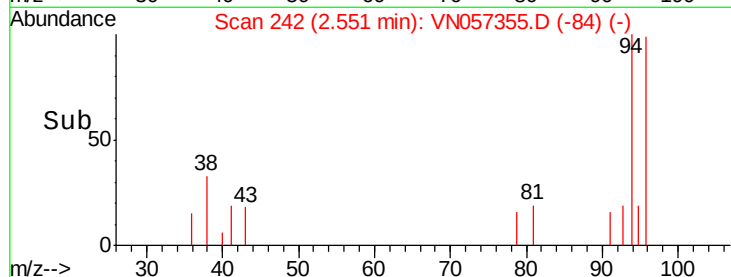
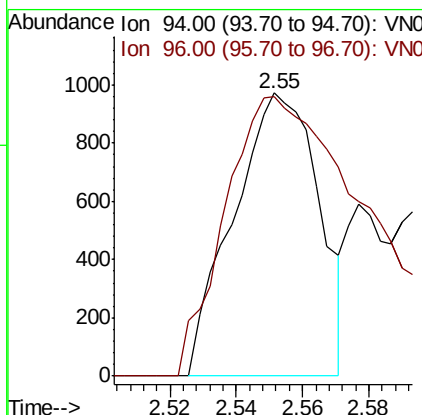
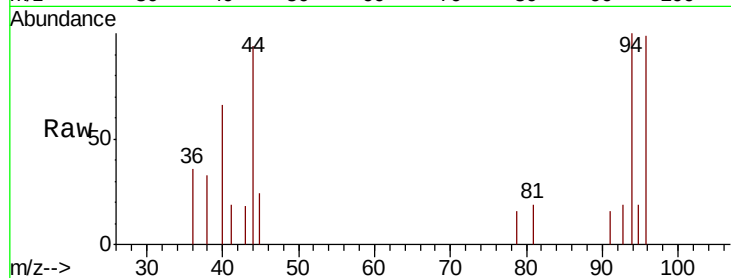




#5
Bromomethane
Concen: 0.281 ug/l
RT: 2.55 min Scan# 242
Delta R.T. 0.01 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

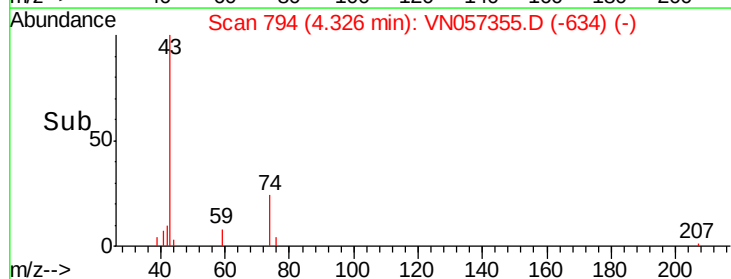
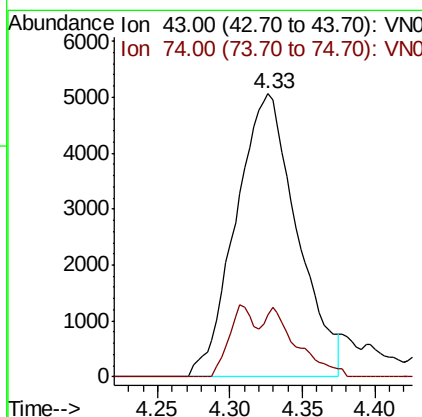
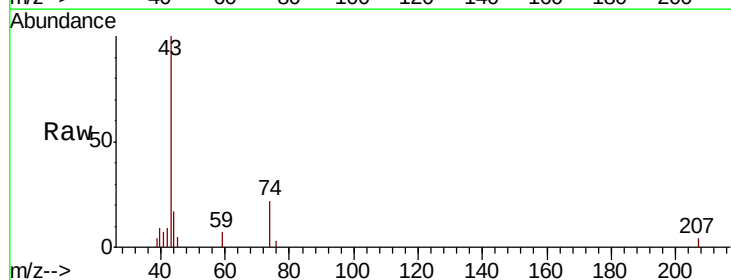
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

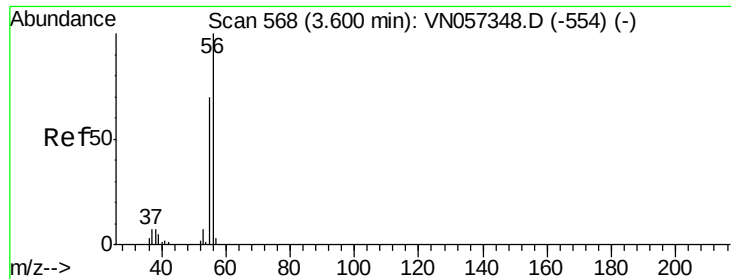
Tgt Ion: 94 Resp: 1738
Ion Ratio Lower Upper
94 100
96 79.0 72.8 109.2



#12
Methyl Acetate
Concen: 1.759 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.02 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Tgt Ion: 43 Resp: 14854
Ion Ratio Lower Upper
43 100
74 22.1 20.2 30.4





#13

Acrolein

Concen: 0.248 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.02 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

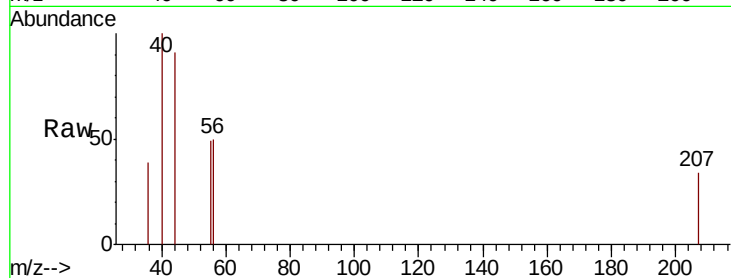
SPDES-1

Tgt Ion: 56 Resp: 198

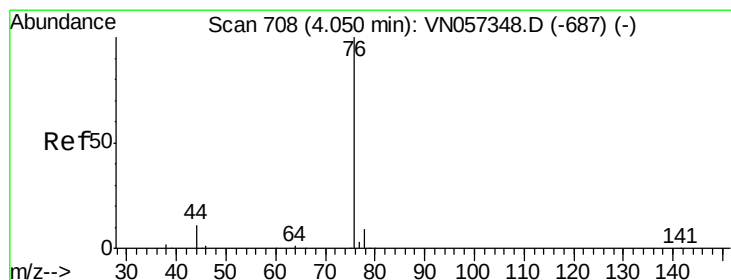
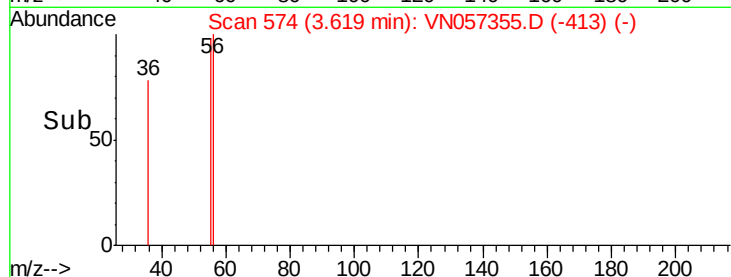
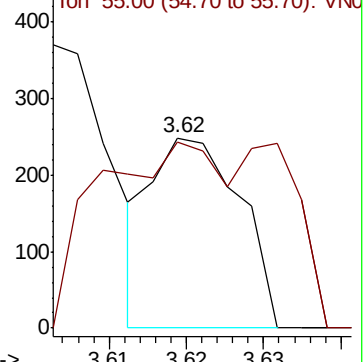
Ion Ratio Lower Upper

56 100

55 64.6 56.9 85.3



Abundance Ion 56.00 (55.70 to 56.70): VN0



#16

Carbon Disulfide

Concen: 0.351 ug/l

RT: 4.05 min Scan# 707

Delta R.T. -0.00 min

Lab File: VN057355.D

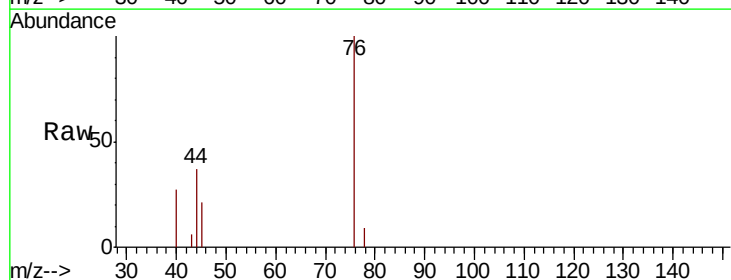
Acq: 16 Aug 2019 15:04

Tgt Ion: 76 Resp: 7214

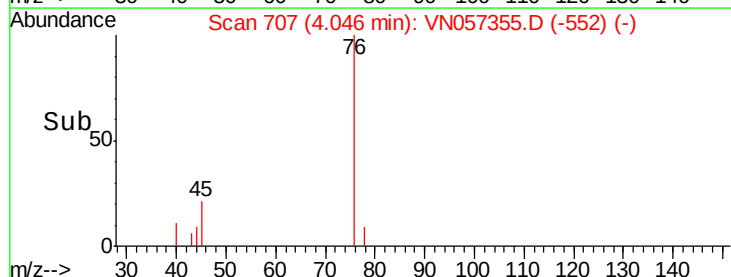
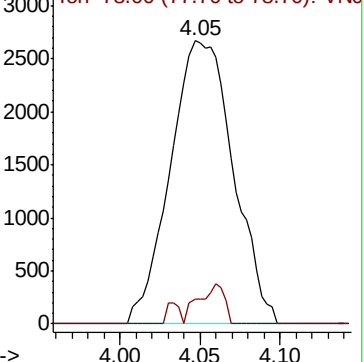
Ion Ratio Lower Upper

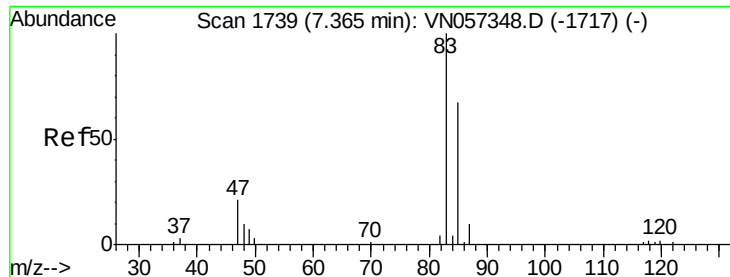
76 100

78 9.0 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VN0

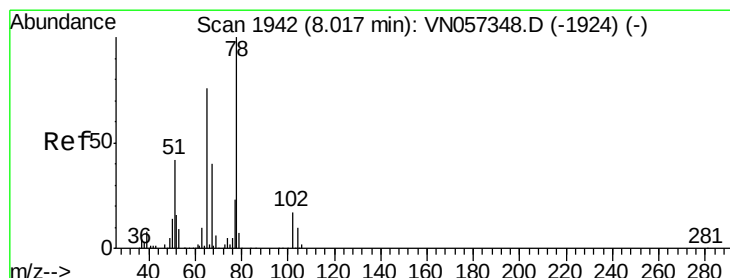
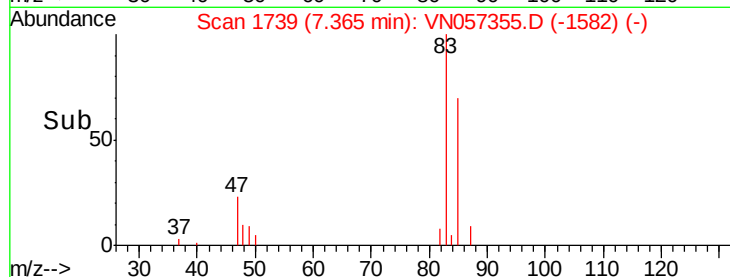
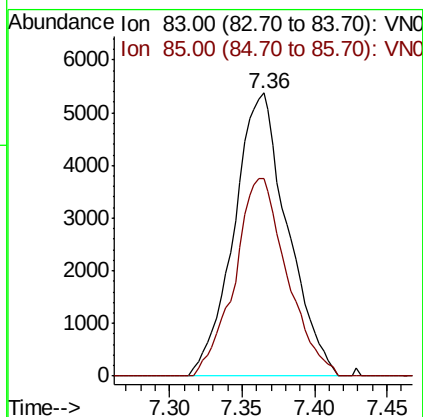
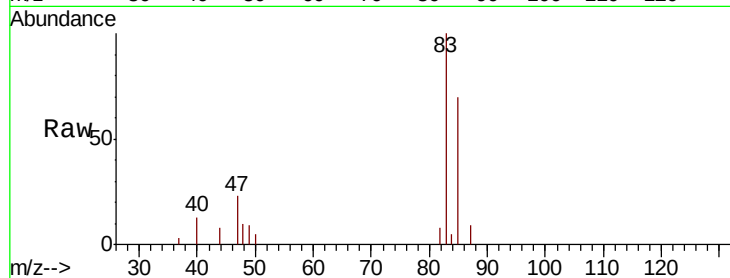




#25
Chloroform
Concen: 0.935 ug/l
RT: 7.36 min Scan# 1739
Delta R.T. 0.01 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

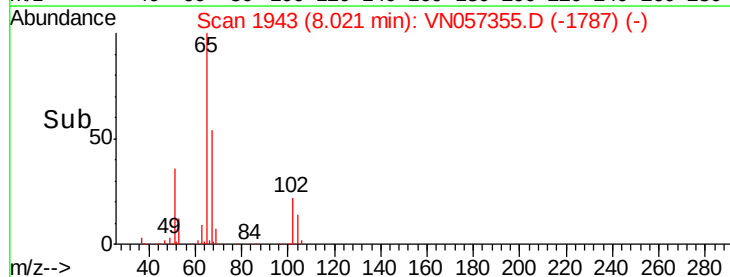
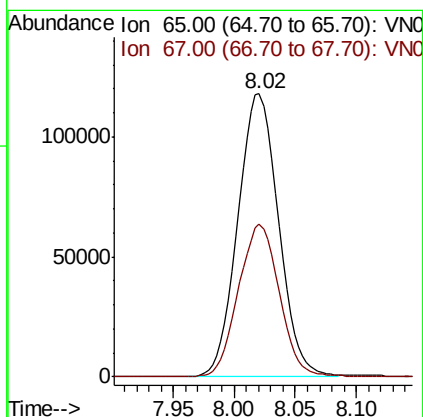
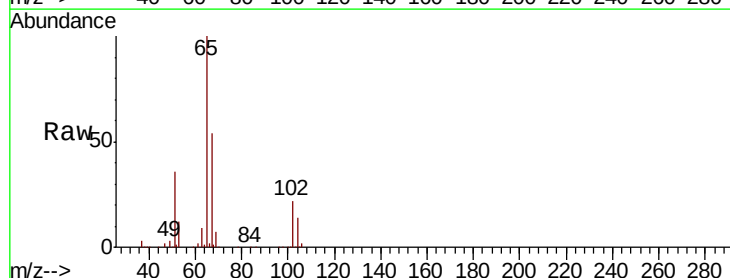
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

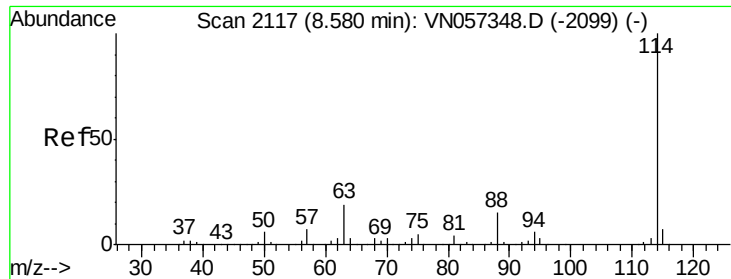
Tgt Ion: 83 Resp: 13804
Ion Ratio Lower Upper
83 100
85 69.8 52.6 79.0



#27
1,2-Dichloroethane-d4
Concen: 30.518 ug/l
RT: 8.02 min Scan# 1943
Delta R.T. 0.00 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Tgt Ion: 65 Resp: 273269
Ion Ratio Lower Upper
65 100
67 54.1 43.4 65.0

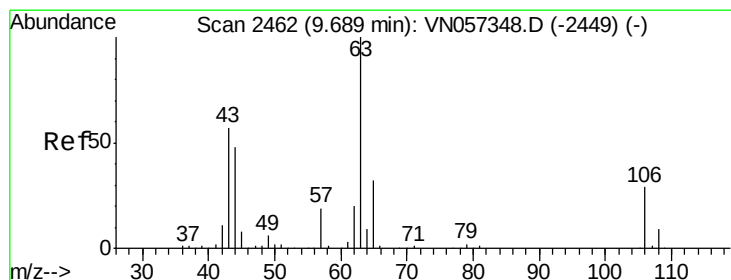
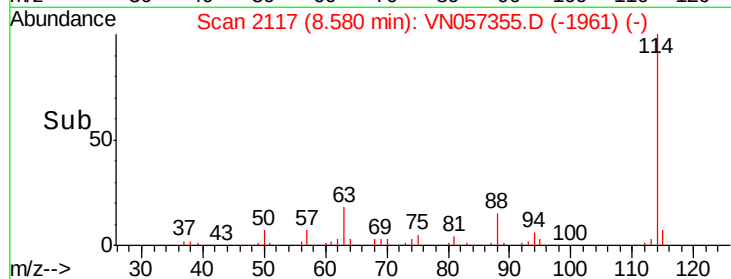
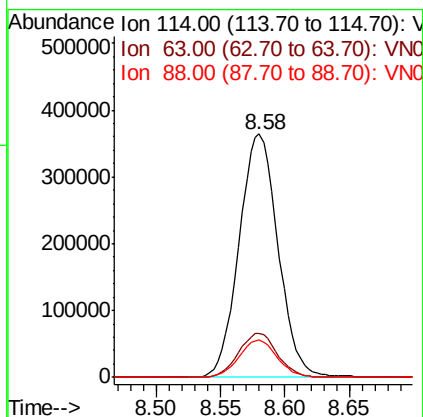
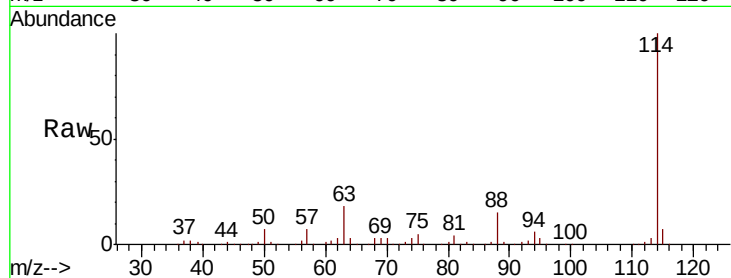




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VN057355.D
 Acq: 16 Aug 2019 15:04

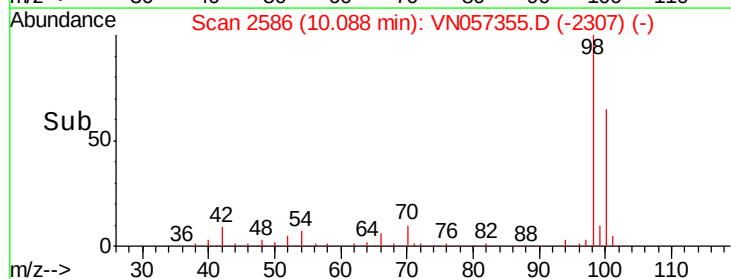
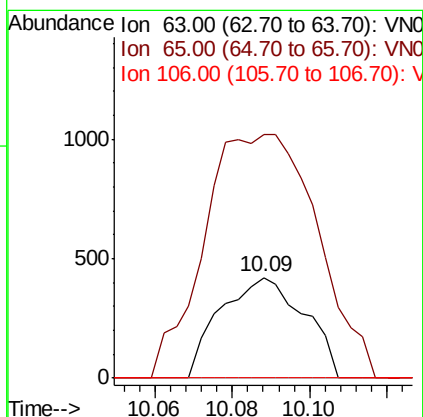
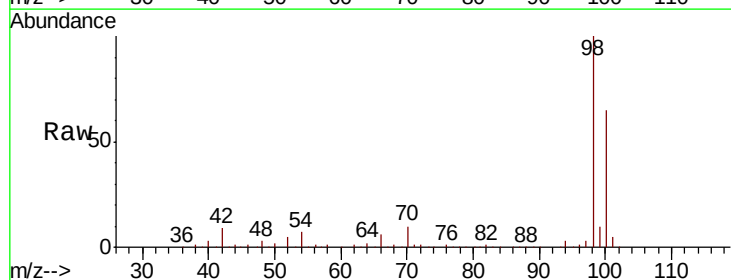
Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

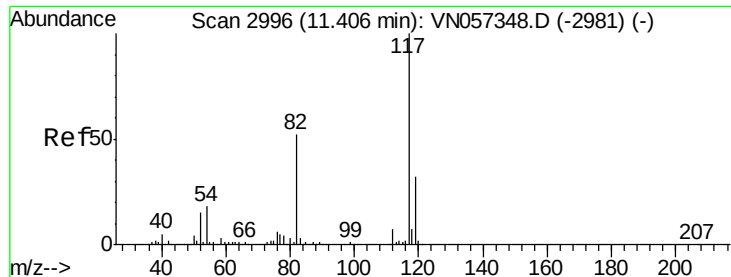
Tgt Ion: 114 Resp: 766891
 Ion Ratio Lower Upper
 114 100
 63 18.2 16.2 24.2
 88 15.0 12.3 18.5



#55
 2-Chloroethyl vinyl ether
 Concen: 0.224 ug/l
 RT: 10.09 min Scan# 2586
 Delta R.T. 0.40 min
 Lab File: VN057355.D
 Acq: 16 Aug 2019 15:04

Tgt Ion: 63 Resp: 635
 Ion Ratio Lower Upper
 63 100
 65 151.2 25.2 37.8#
 106 0.0 21.6 32.4#

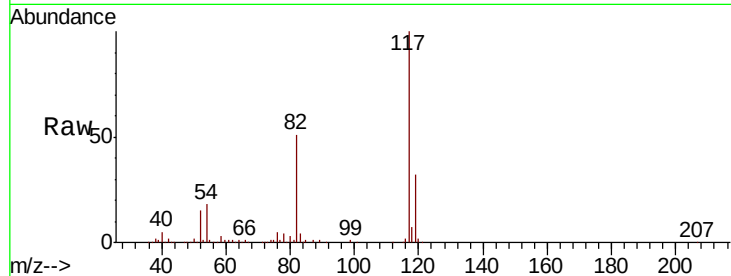




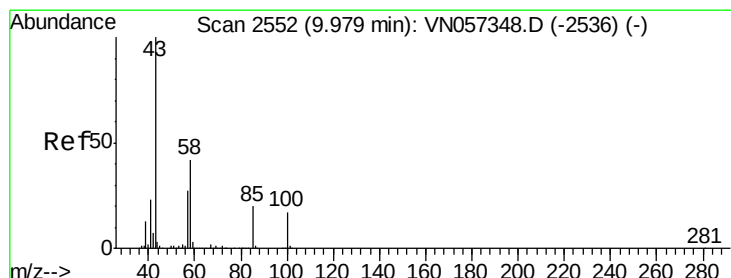
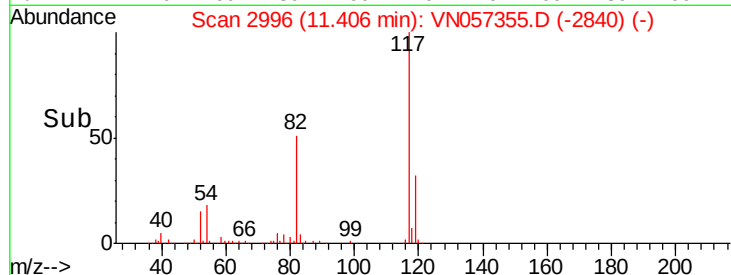
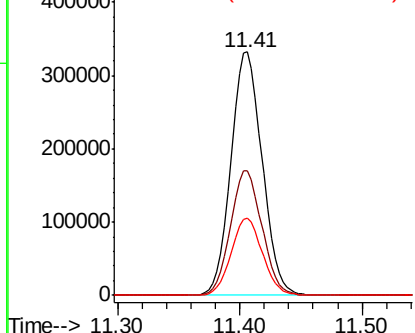
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Instrument :
MSVOA_N
ClientSampled :
SPDES-1

Tgt Ion: 117 Resp: 592284
Ion Ratio Lower Upper
117 100
82 51.6 43.0 64.4
119 31.8 26.0 39.0

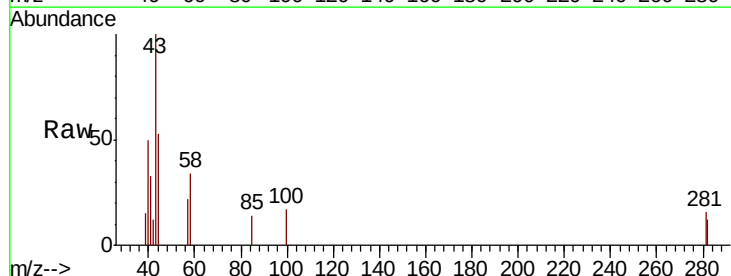


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VN
Ion 119.00 (118.70 to 119.70): V

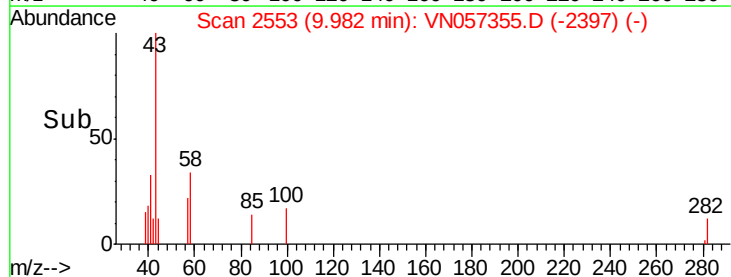
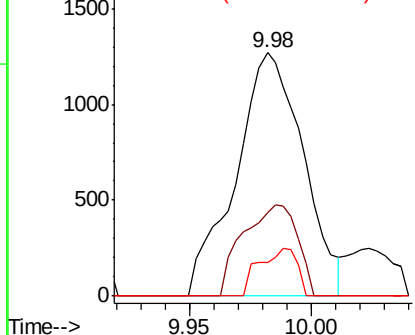


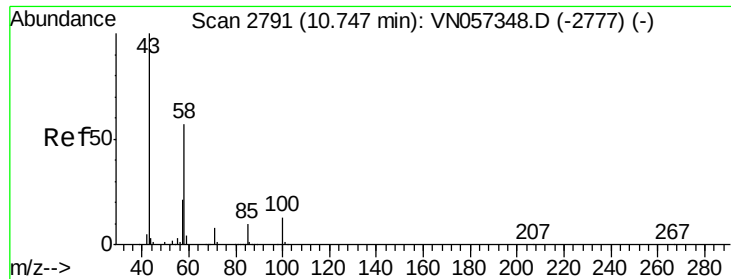
#58
4-Methyl-2-Pentanone
Concen: 0.315 ug/l
RT: 9.98 min Scan# 2553
Delta R.T. 0.00 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Tgt Ion: 43 Resp: 2431
Ion Ratio Lower Upper
43 100
58 30.4 31.9 47.9#
85 6.8 14.2 21.4#



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

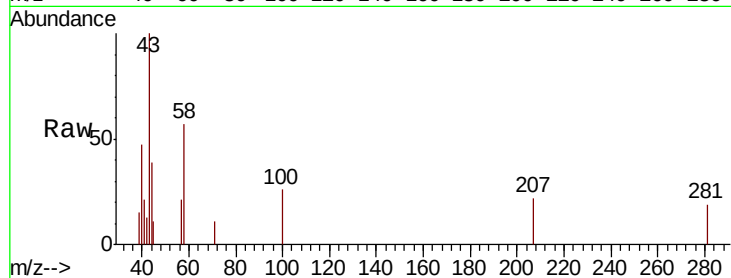




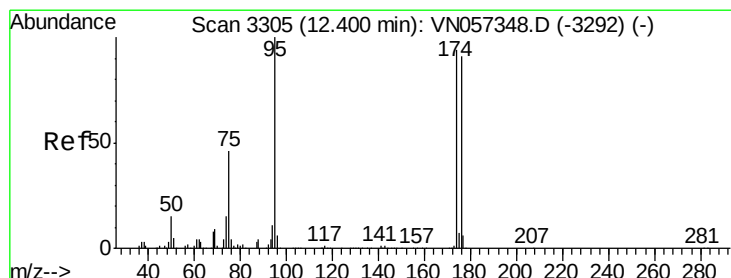
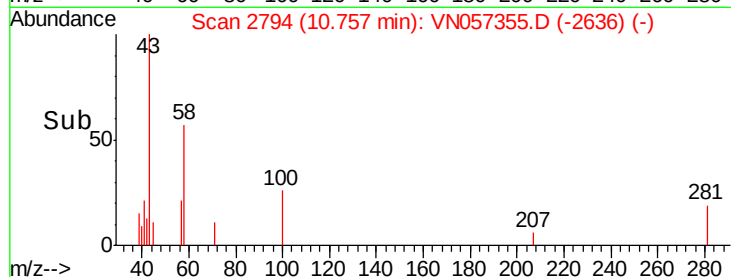
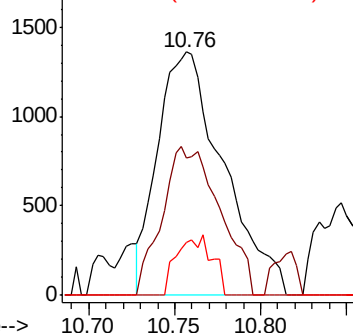
#59
2-Hexanone
Concen: 0.657 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

Tgt Ion: 43 Resp: 3636
Ion Ratio Lower Upper
43 100
58 24.5 44.4 66.6#
57 8.1 15.2 22.8#

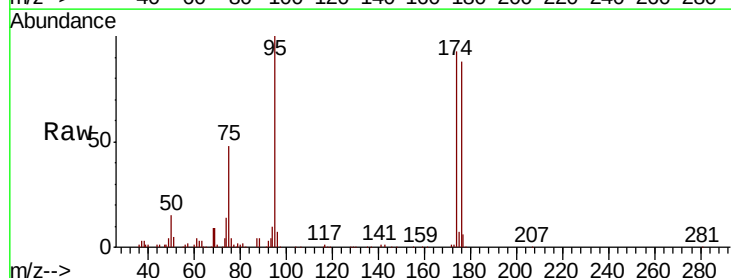


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0
Ion 57.00 (56.70 to 57.70): VN0

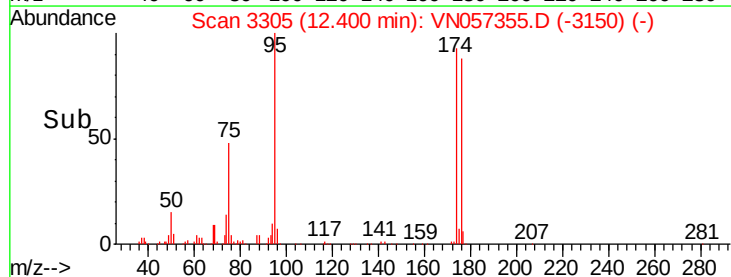
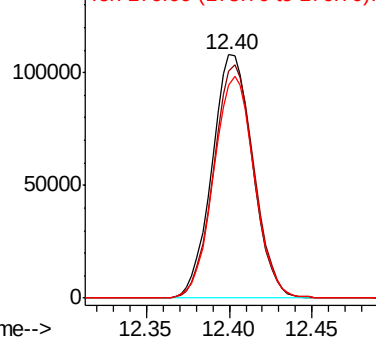


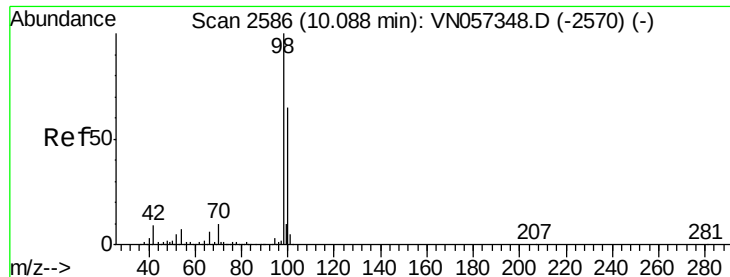
#60
4-Bromofluorobenzene
Concen: 21.165 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Tgt Ion: 95 Resp: 184593
Ion Ratio Lower Upper
95 100
174 95.6 72.6 108.8
176 91.2 71.0 106.6



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: 32.908 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

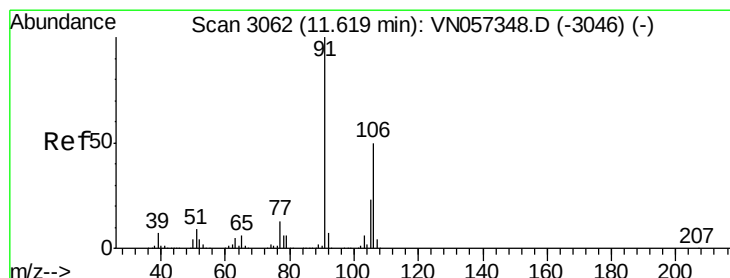
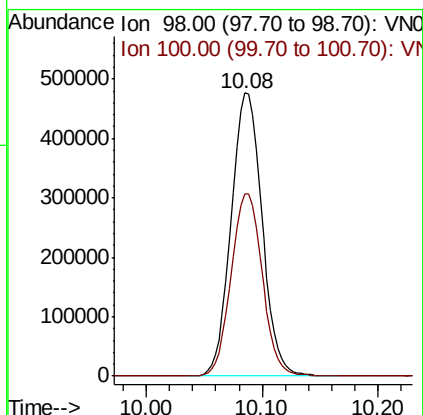
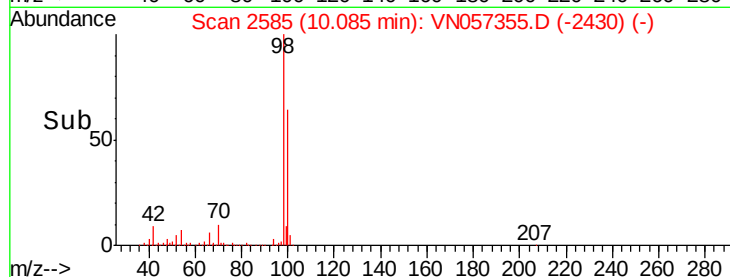
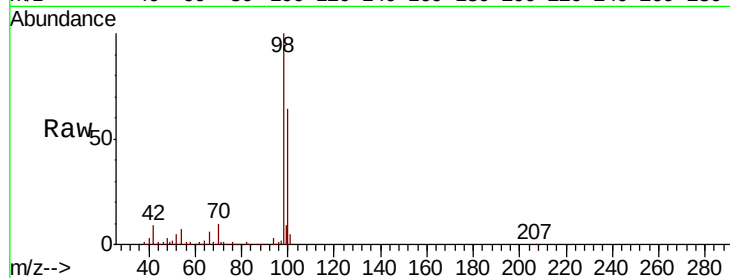
SPDES-1

Tgt Ion: 98 Resp: 879150

Ion Ratio Lower Upper

98 100

100 64.8 51.1 76.7



#67

m/p-Xylenes

Concen: 0.250 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. 0.00 min

Lab File: VN057355.D

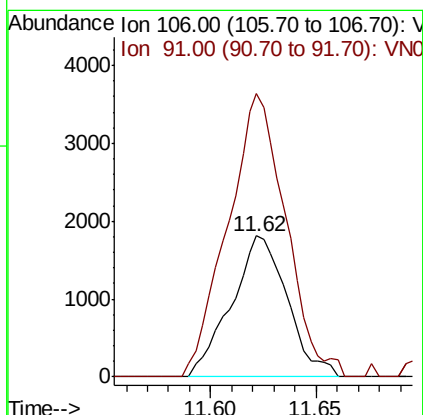
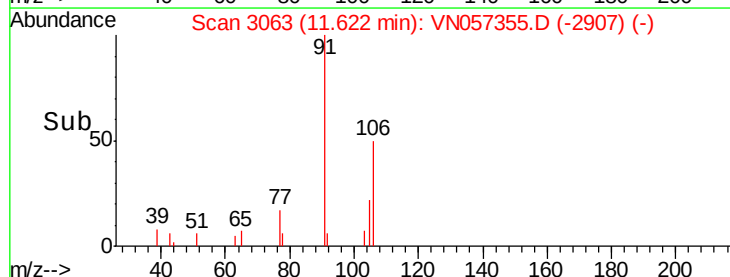
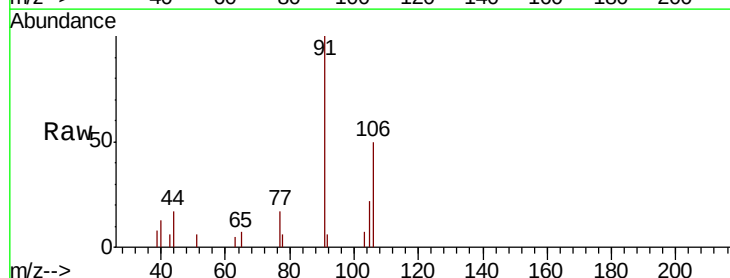
Acq: 16 Aug 2019 15:04

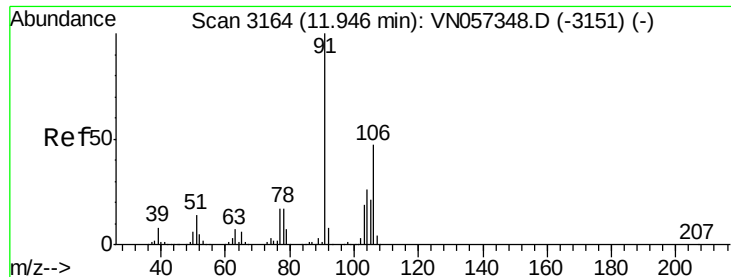
Tgt Ion: 106 Resp: 3337

Ion Ratio Lower Upper

106 100

91 205.6 161.8 242.8

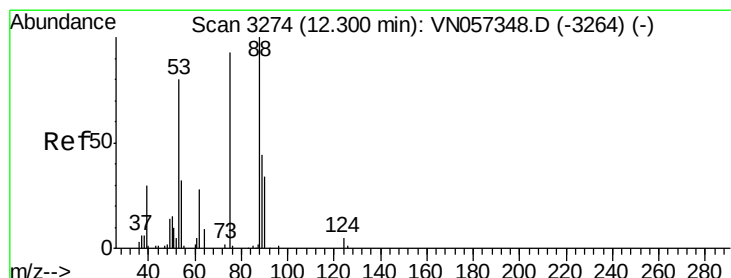
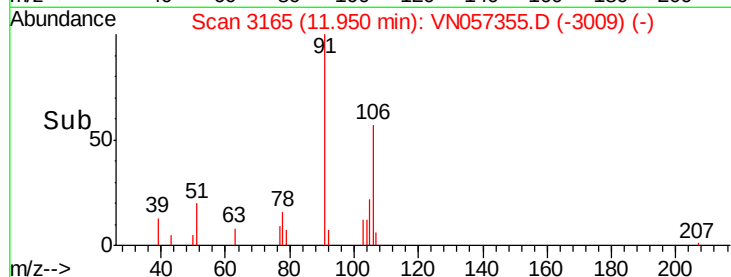
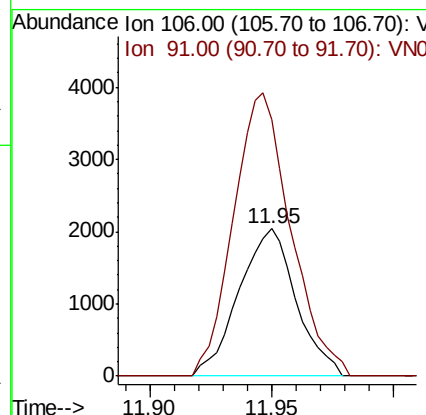
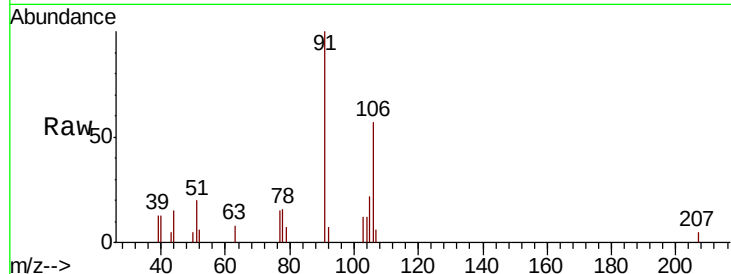




#68
o-Xylene
Concen: 0.254 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

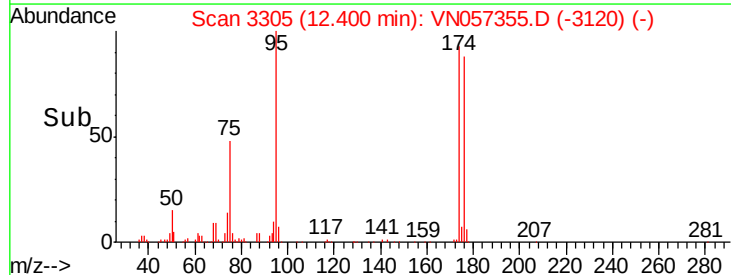
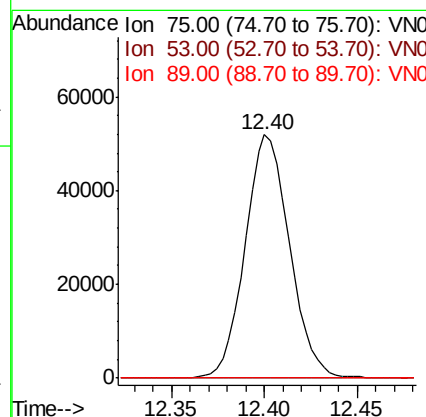
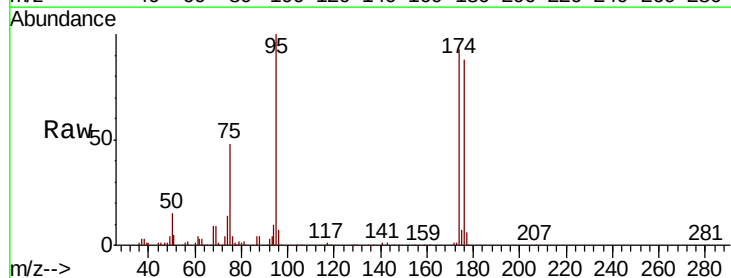
Instrument :
MSVOA_N
ClientSampleId :
SPDES-1

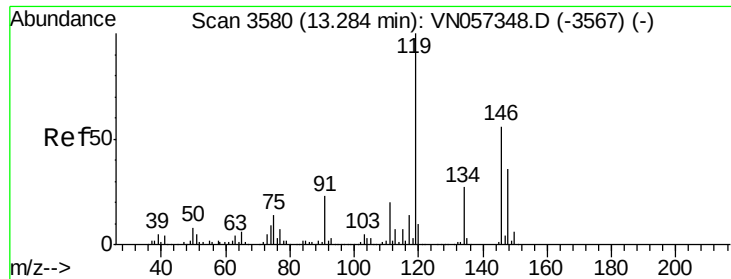
Tgt Ion: 106 Resp: 3323
Ion Ratio Lower Upper
106 100
91 192.1 108.1 324.2



#77
t-1,4-Dichloro-2-butene
Concen: 27.755 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN057355.D
Acq: 16 Aug 2019 15:04

Tgt Ion: 75 Resp: 86196
Ion Ratio Lower Upper
75 100
53 0.0 48.6 145.8#
89 0.0 21.3 64.0#

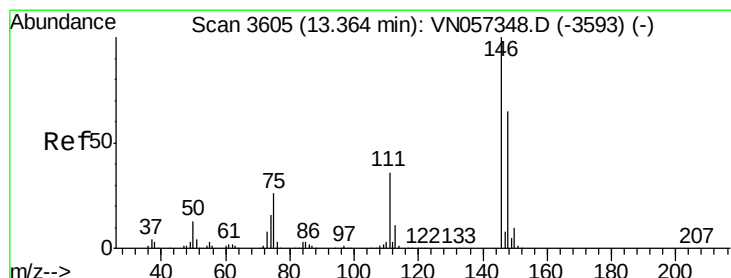
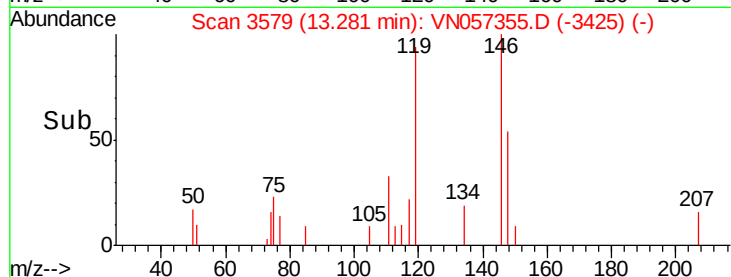
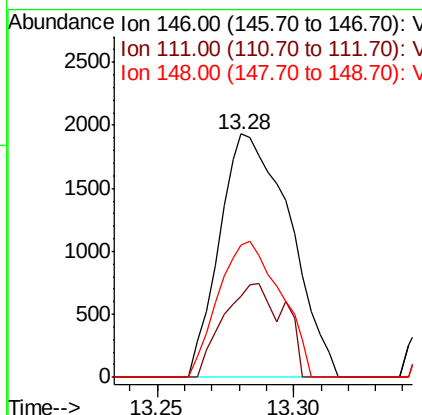
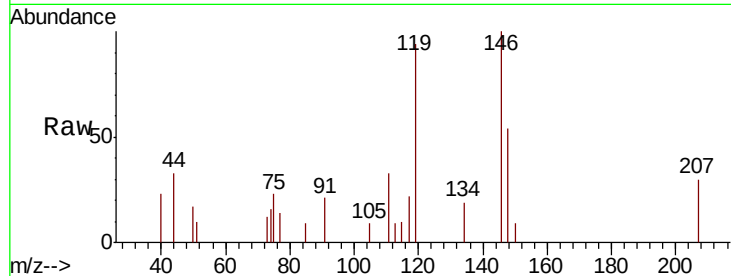




#83
 1,3-Dichlorobenzene
 Concen: 0.255 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN057355.D
 Acq: 16 Aug 2019 15:04

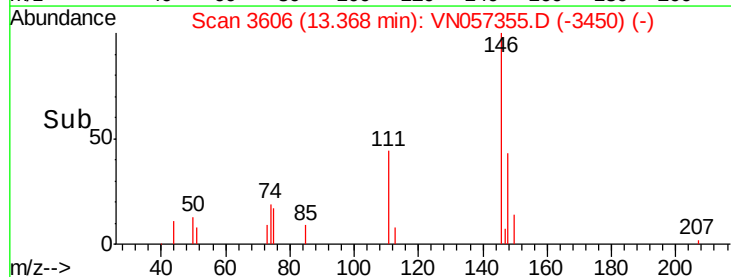
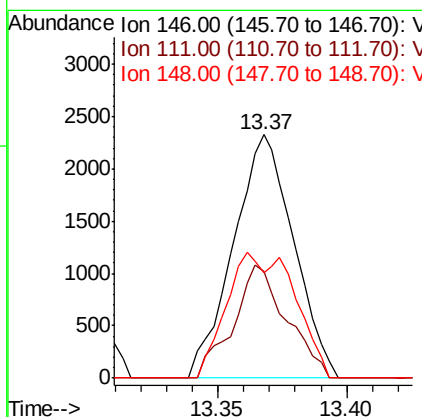
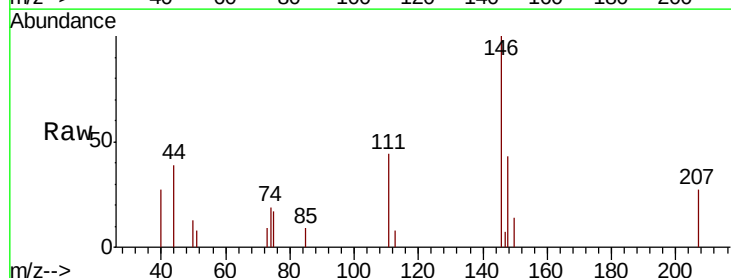
Instrument :
 MSVOA_N
 ClientSampled :
 SPDES-1

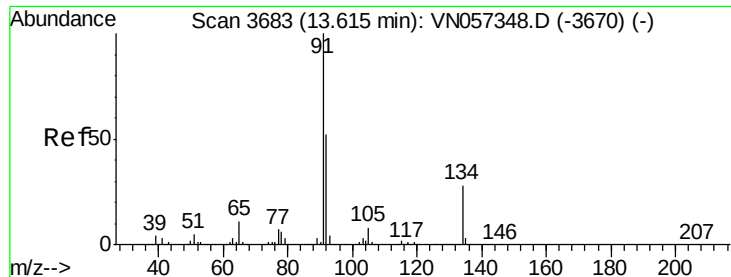
Tgt Ion:146 Resp: 3466
 Ion Ratio Lower Upper
 146 100
 111 26.8 18.7 56.1
 148 49.6 31.8 95.4



#84
 1,4-Dichlorobenzene
 Concen: 0.298 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057355.D
 Acq: 16 Aug 2019 15:04

Tgt Ion:146 Resp: 3782
 Ion Ratio Lower Upper
 146 100
 111 41.2 17.8 53.4
 148 32.3 31.9 95.5





#85

n-Butylbenzene

Concen: 0.288 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. -0.00 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

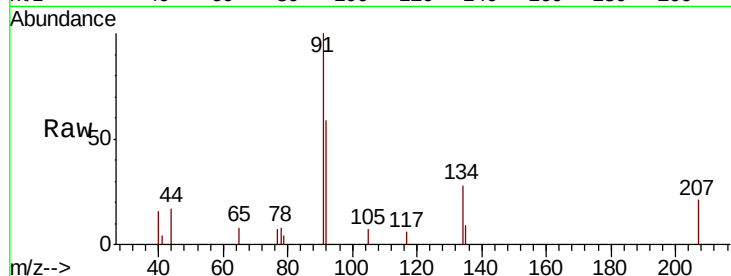
Tgt Ion: 91 Resp: 6131

Ion Ratio Lower Upper

91 100

92 52.5 0.0 104.0

134 26.3 0.0 53.2

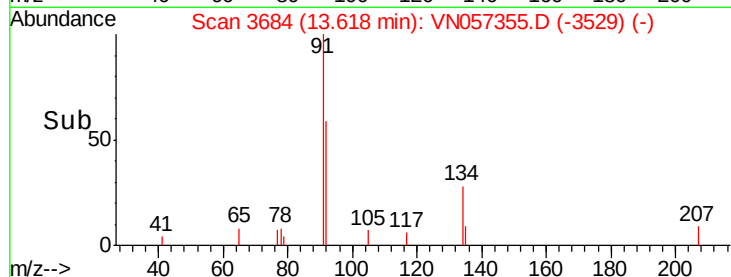


Abundance Ion 91.00 (90.70 to 91.70): VN057348.D (-3670) (-)

Ion 92.00 (91.70 to 92.70): VN057348.D (-3670) (-)

Ion 134.00 (133.70 to 134.70): VN057348.D (-3670) (-)

Time-->

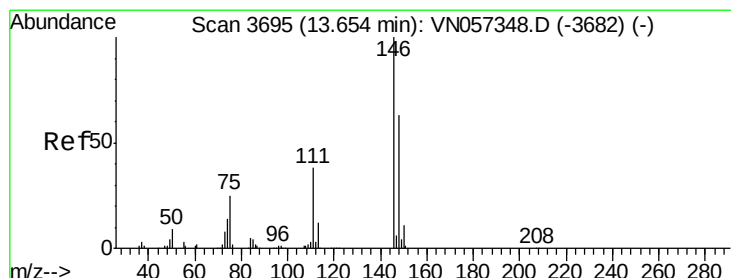


Abundance Ion 91.00 (90.70 to 91.70): VN057355.D (-3529) (-)

Ion 92.00 (91.70 to 92.70): VN057355.D (-3529) (-)

Ion 134.00 (133.70 to 134.70): VN057355.D (-3529) (-)

Time-->



#87

1,2-Dichlorobenzene

Concen: 0.293 ug/l

RT: 13.66 min Scan# 3696

Delta R.T. -0.00 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

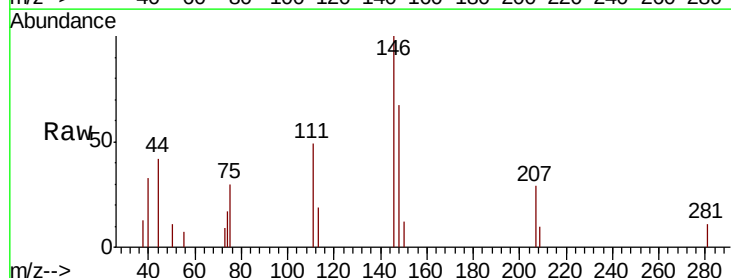
Tgt Ion: 146 Resp: 3758

Ion Ratio Lower Upper

146 100

111 39.0 19.7 59.0

148 61.0 32.7 98.1

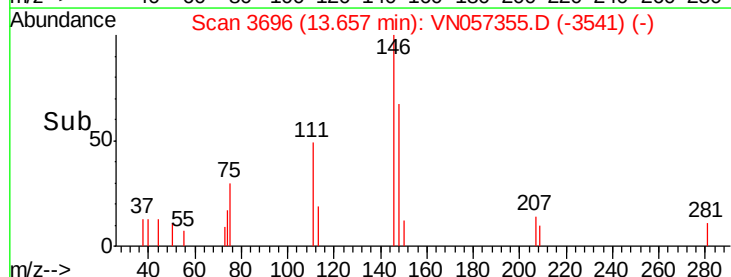


Abundance Ion 146.00 (145.70 to 146.70): VN057348.D (-3682) (-)

Ion 111.00 (110.70 to 111.70): VN057348.D (-3682) (-)

Ion 148.00 (147.70 to 148.70): VN057348.D (-3682) (-)

Time-->

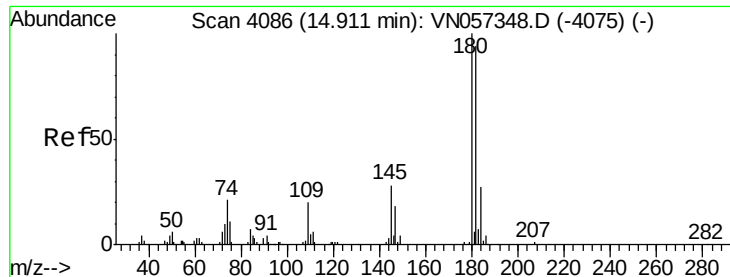


Abundance Ion 146.00 (145.70 to 146.70): VN057355.D (-3541) (-)

Ion 111.00 (110.70 to 111.70): VN057355.D (-3541) (-)

Ion 148.00 (147.70 to 148.70): VN057355.D (-3541) (-)

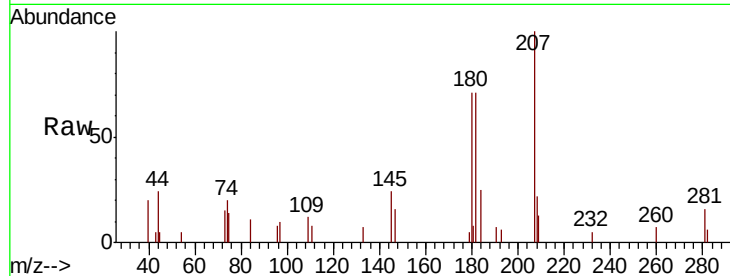
Time-->



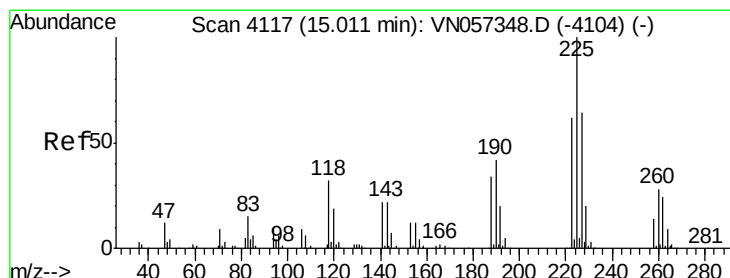
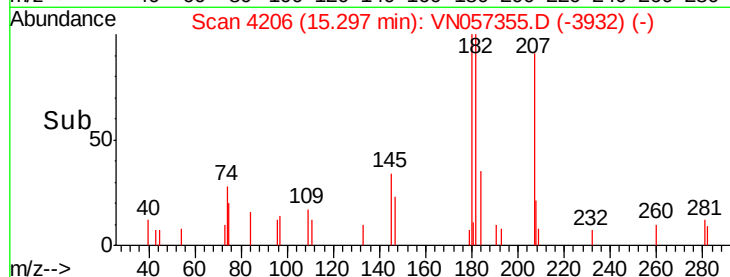
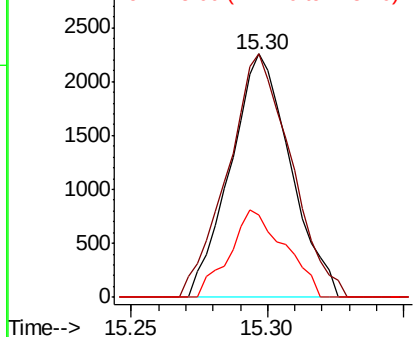
#89
 1,2,4-Trichlorobenzene
 Concen: 0.756 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.38 min
 Lab File: VN057355.D
 Acq: 16 Aug 2019 15:04

Instrument :
 MSVOA_N
 ClientSampleId :
 SPDES-1

Tgt Ion:180 Resp: 3436
 Ion Ratio Lower Upper
 180 100
 182 105.5 78.2 117.4
 145 33.1 23.2 34.8

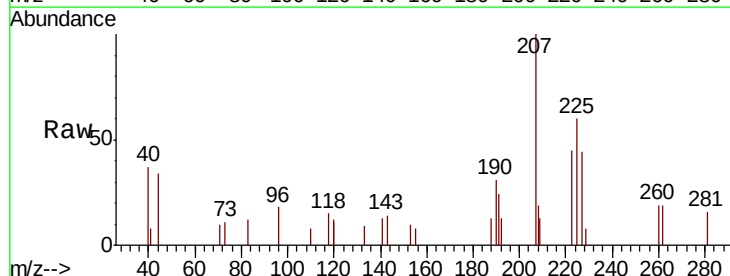


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

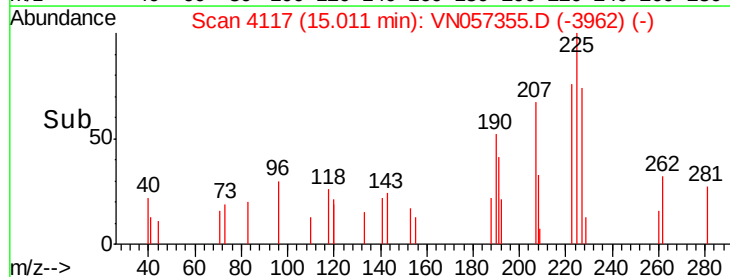
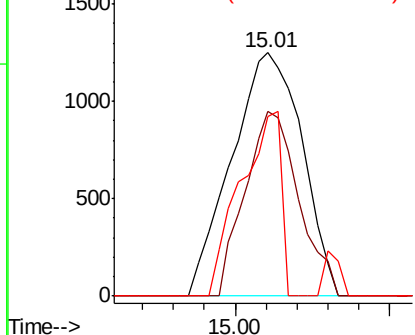


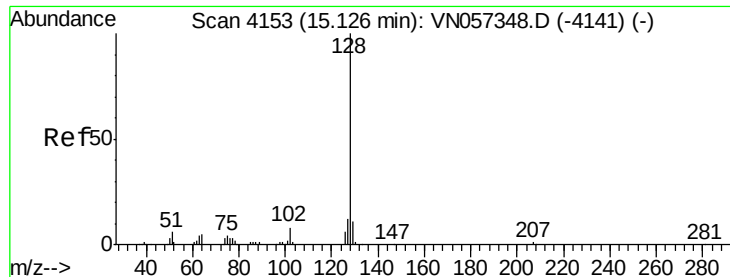
#90
 Hexachlorobutadiene
 Concen: 0.342 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN057355.D
 Acq: 16 Aug 2019 15:04

Tgt Ion:225 Resp: 1981
 Ion Ratio Lower Upper
 225 100
 223 57.8 0.0 124.6
 227 43.8 0.0 128.6



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: 0.523 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

Instrument :

MSVOA_N

ClientSampleId :

SPDES-1

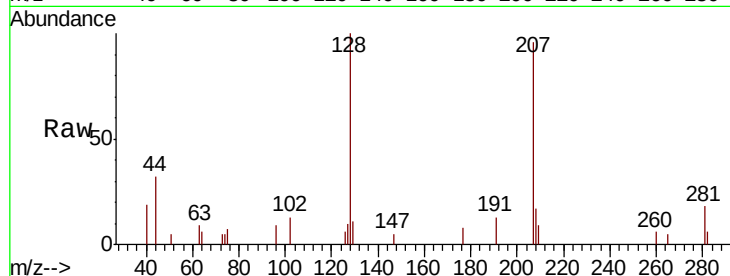
Tgt Ion:128 Resp: 5137

Ion Ratio Lower Upper

128 100

127 8.8 10.4 15.6#

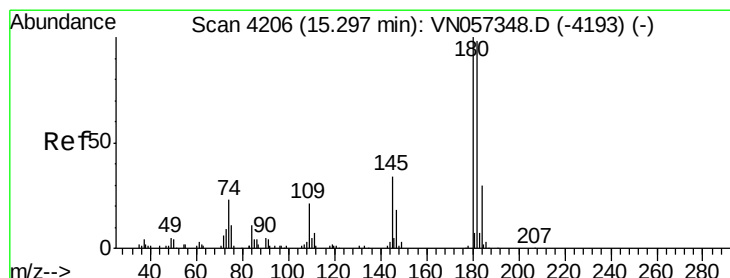
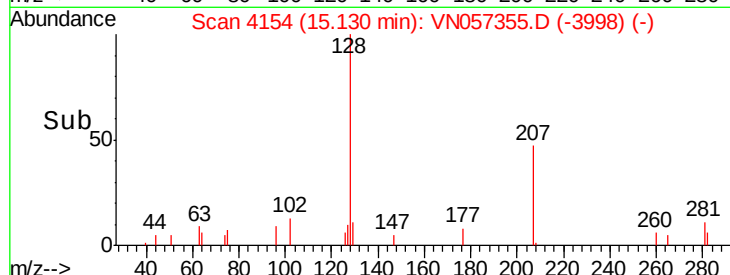
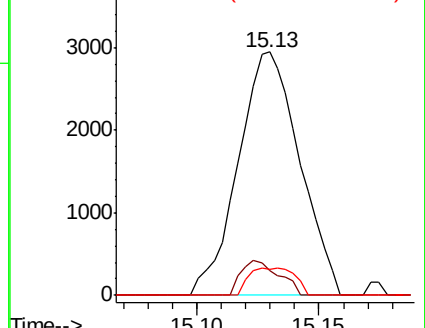
129 4.2 8.8 13.2#



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: 0.798 ug/l

RT: 15.30 min Scan# 4206

Delta R.T. 0.00 min

Lab File: VN057355.D

Acq: 16 Aug 2019 15:04

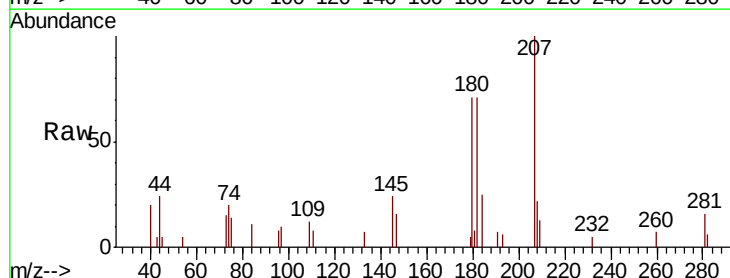
Tgt Ion:180 Resp: 3436

Ion Ratio Lower Upper

180 100

182 105.5 0.0 192.4

145 33.1 0.0 60.4



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

