

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN081719\
 Data File : VN057353.D
 Acq On : 16 Aug 2019 14:18
 Operator : JC/SP
 Sample : VN0817WBL02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL02

Quant Time: Aug 17 03:25:33 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	7.19	128	142114	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.58	114	781338	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	600895	30.00	ug/l	0.00

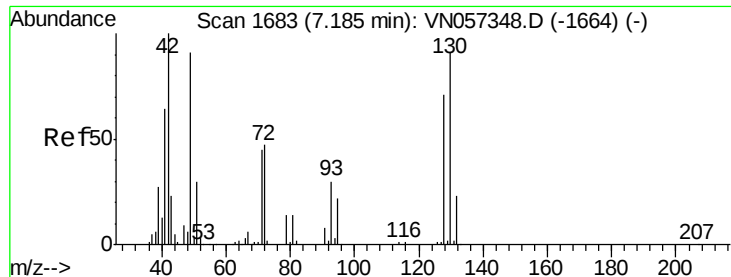
System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.02	65	278819	30.52	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.73%
60) 4-Bromofluorobenzene	12.40	95	192200	21.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	72.40%
63) Toluene-d8	10.08	98	894761	33.01	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	110.03%

Target Compounds

					Qvalue
5) Bromomethane	2.55	94	2182	0.346 ug/l	100
12) Methyl Acetate	4.32	43	14558	1.689 ug/l	97
16) Carbon Disulfide	4.05	76	7390	0.353 ug/l #	95
23) tert-Butyl Alcohol	4.34	59	440	0.354 ug/l #	100
50) 1,1,2-Trichloroethane	10.09	97	27830	3.253 ug/l #	1
59) 2-Hexanone	10.75	43	2438	0.434 ug/l #	73
83) 1,3-Dichlorobenzene	13.37	146	3577	0.259 ug/l	86
84) 1,4-Dichlorobenzene	13.37	146	3577	0.278 ug/l	87
85) n-Butylbenzene	13.62	91	5721	0.265 ug/l	91
87) 1,2-Dichlorobenzene	13.65	146	3700	0.284 ug/l	88
89) 1,2,4-Trichlorobenzene	14.91	180	5672	1.231 ug/l	96
90) Hexachlorobutadiene	15.01	225	3284	0.558 ug/l	99
91) Naphthalene	15.13	128	5103	0.512 ug/l #	93
92) 1,2,3-Trichlorobenzene	15.29	180	4674	1.070 ug/l	94

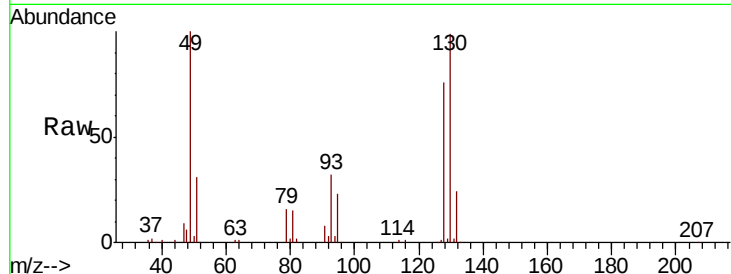
(#) = qualifier out of range (m) = manual integration (+) = signals summed



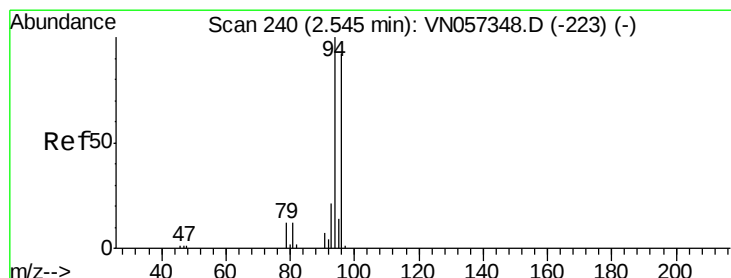
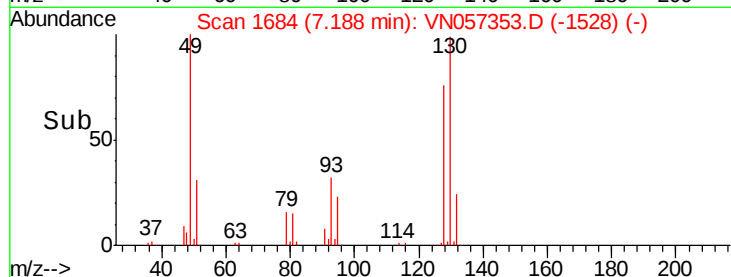
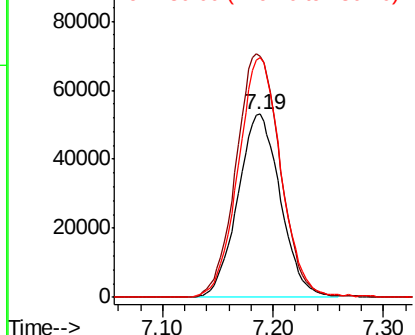
#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 7.19 min Scan# 1684
 Delta R.T. 0.00 min
 Lab File: VN057353.D
 Acq: 16 Aug 2019 14:18

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL02

Tgt Ion:128 Resp: 142114
 Ion Ratio Lower Upper
 128 100
 49 137.0 0.0 390.5
 130 130.7 0.0 316.5

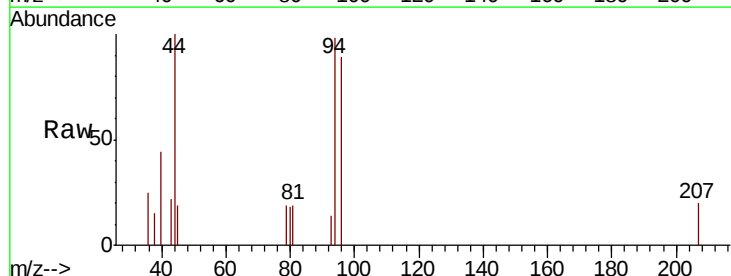


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 49.00 (48.70 to 49.70): VN
 Ion 130.00 (129.70 to 130.70): V

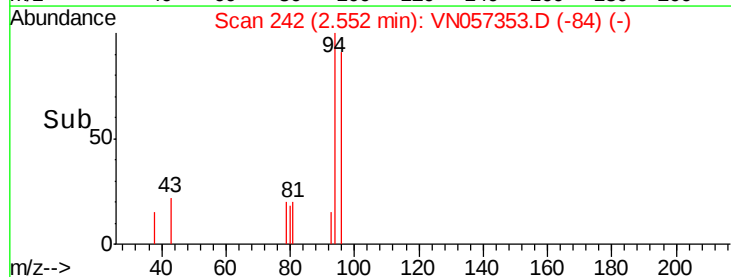
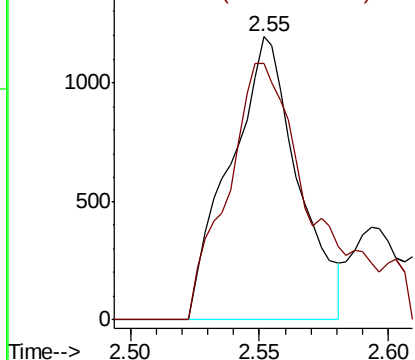


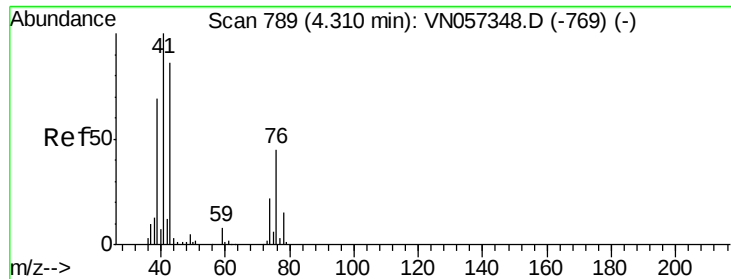
#5
 Bromomethane
 Concen: 0.346 ug/l
 RT: 2.55 min Scan# 242
 Delta R.T. 0.01 min
 Lab File: VN057353.D
 Acq: 16 Aug 2019 14:18

Tgt Ion: 94 Resp: 2182
 Ion Ratio Lower Upper
 94 100
 96 90.6 72.8 109.2



Abundance Ion 94.00 (93.70 to 94.70): VN
 Ion 96.00 (95.70 to 96.70): VN





#12

Methyl Acetate

Concen: 1.689 ug/l

RT: 4.32 min Scan# 792

Delta R.T. 0.01 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

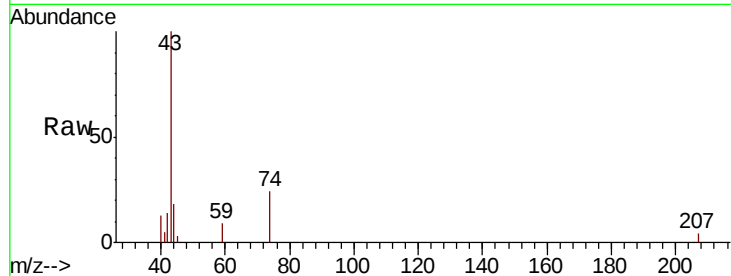
VN0817WBL02

Tgt Ion: 43 Resp: 14558

Ion Ratio Lower Upper

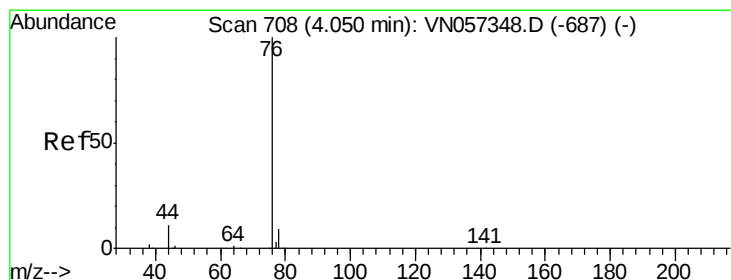
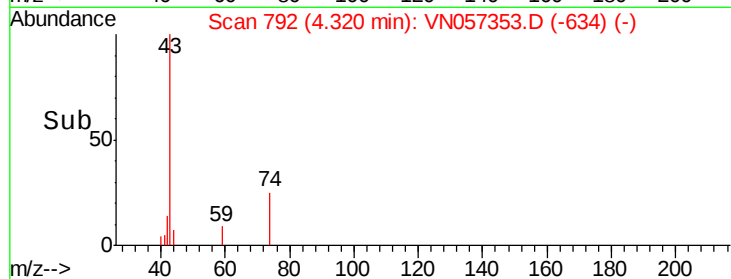
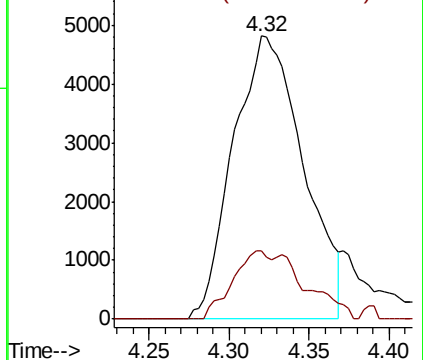
43 100

74 24.0 20.2 30.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#16

Carbon Disulfide

Concen: 0.353 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.01 min

Lab File: VN057353.D

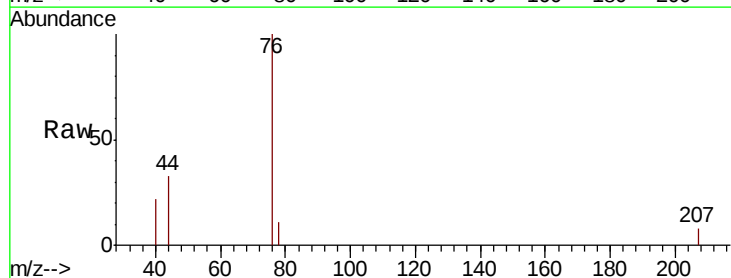
Acq: 16 Aug 2019 14:18

Tgt Ion: 76 Resp: 7390

Ion Ratio Lower Upper

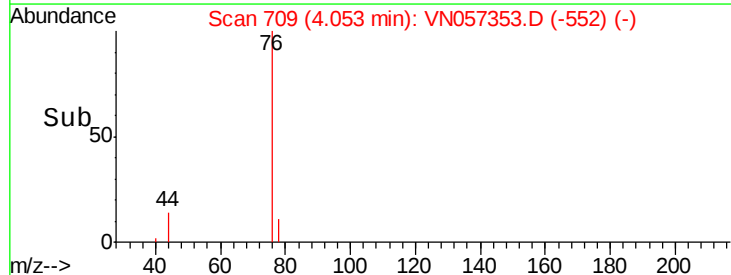
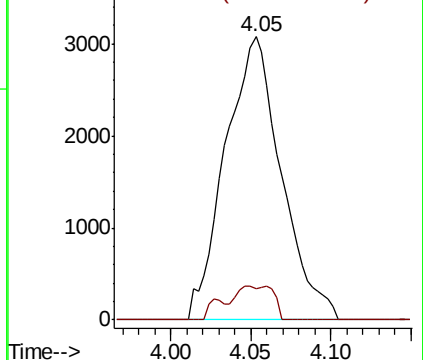
76 100

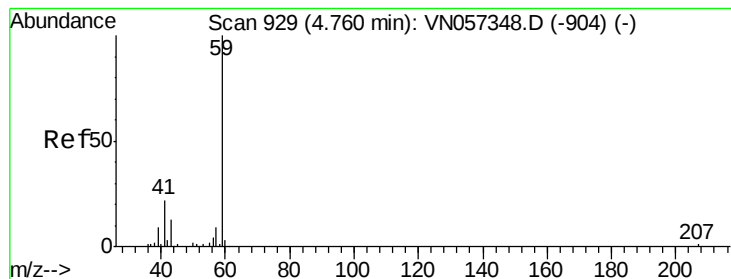
78 11.1 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0





#23

tert-Butyl Alcohol

Concen: 0.354 ug/l

RT: 4.34 min Scan# 799

Delta R.T. -0.41 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

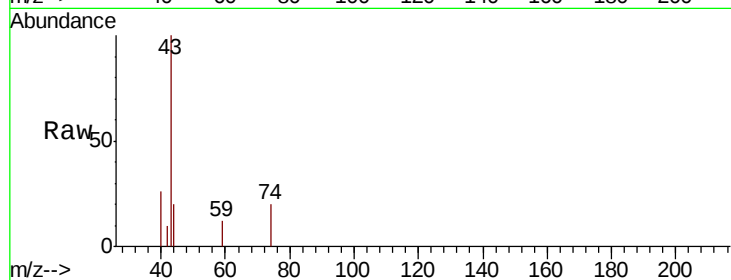
VN0817WBL02

Tgt Ion: 59 Resp: 440

Ion Ratio Lower Upper

59 100

52 0.0 0.1 0.1#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

4.34

400

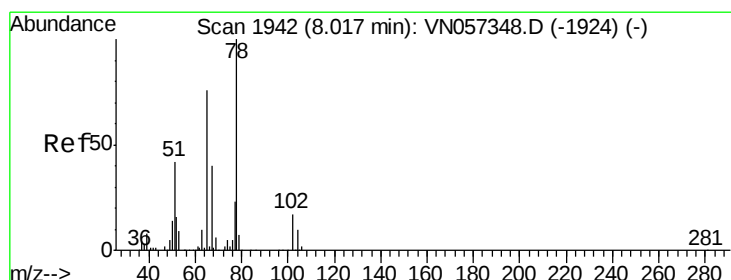
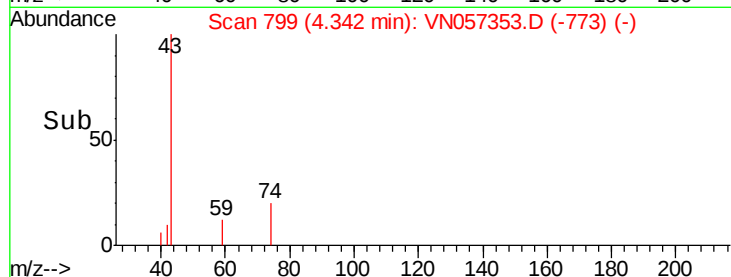
300

200

100

0

Time--> 4.32 4.33 4.34 4.35 4.36



#27

1,2-Dichloroethane-d4

Concen: 30.516 ug/l

RT: 8.02 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN057353.D

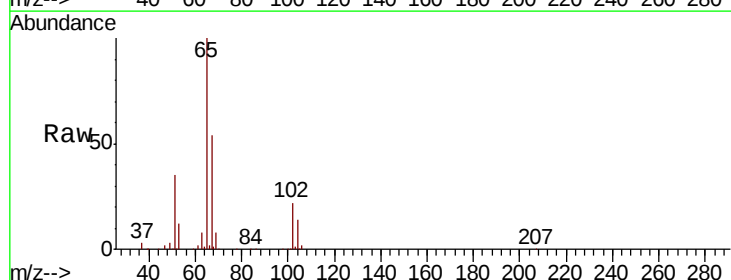
Acq: 16 Aug 2019 14:18

Tgt Ion: 65 Resp: 278819

Ion Ratio Lower Upper

65 100

67 54.6 43.4 65.0



Abundance Ion 65.00 (64.70 to 65.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

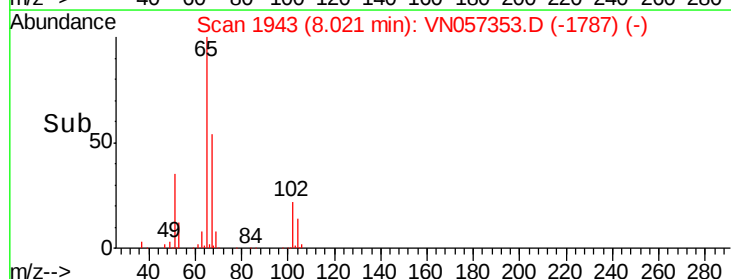
8.02

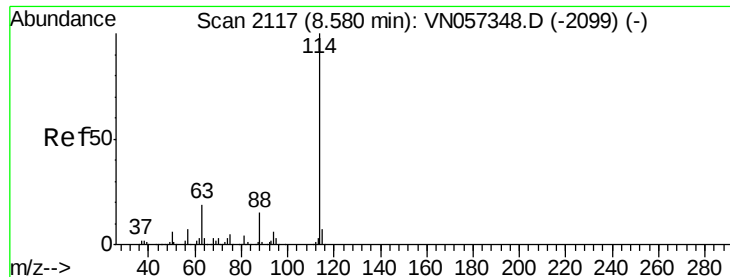
100000

50000

0

Time--> 7.90 8.00 8.10

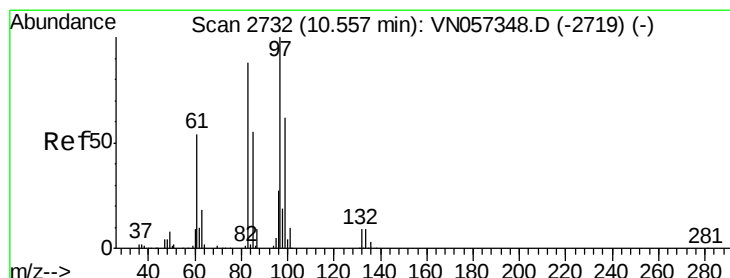
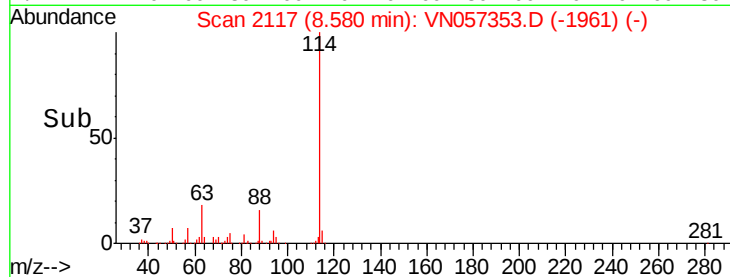
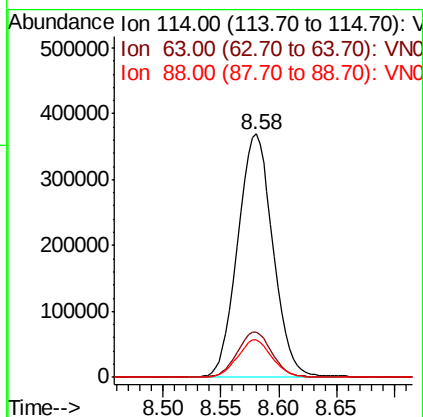
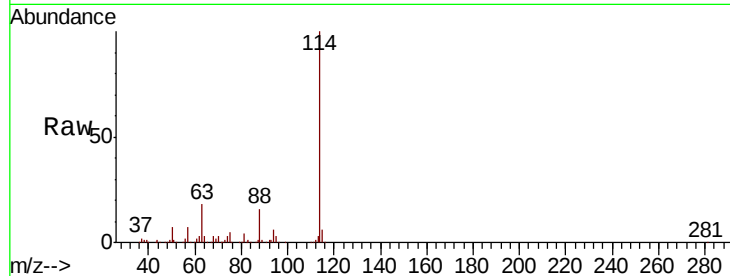




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.58 min Scan# 2117
 Delta R.T. 0.00 min
 Lab File: VN057353.D
 Acq: 16 Aug 2019 14:18

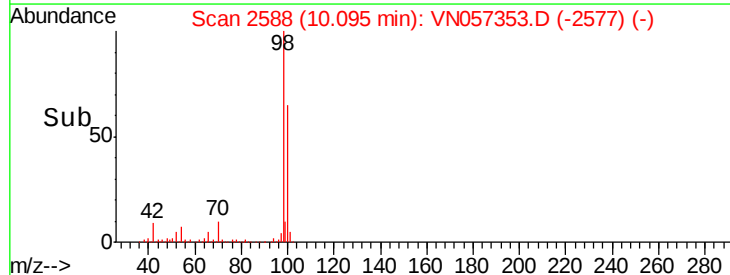
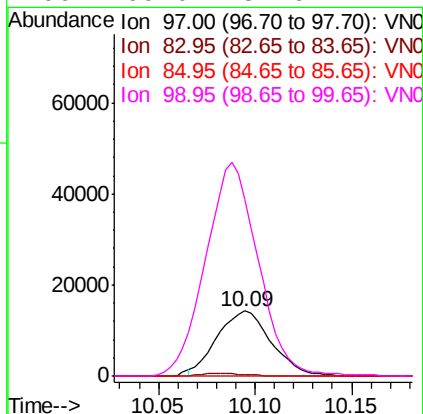
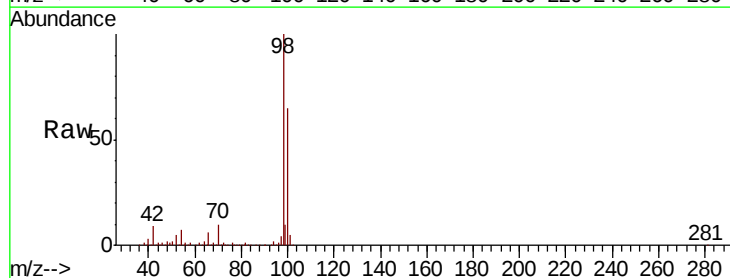
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL02

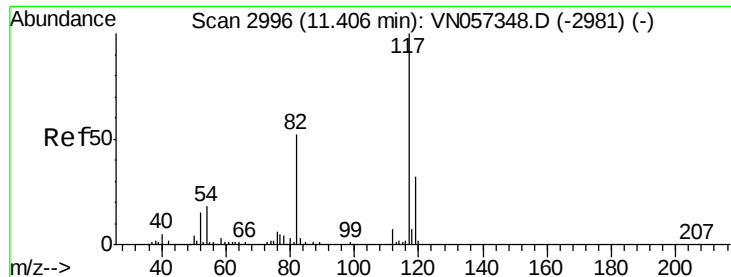
Tgt Ion: 114 Resp: 781338
 Ion Ratio Lower Upper
 114 100
 63 18.5 16.2 24.2
 88 15.1 12.3 18.5



#50
 1,1,2-Trichloroethane
 Concen: 3.253 ug/l
 RT: 10.09 min Scan# 2588
 Delta R.T. -0.46 min
 Lab File: VN057353.D
 Acq: 16 Aug 2019 14:18

Tgt Ion: 97 Resp: 27830
 Ion Ratio Lower Upper
 97 100
 83 1.9 69.2 103.8#
 85 0.0 45.3 67.9#
 99 269.0 51.6 77.4#

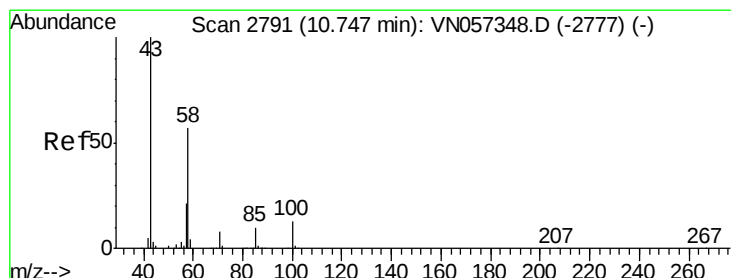
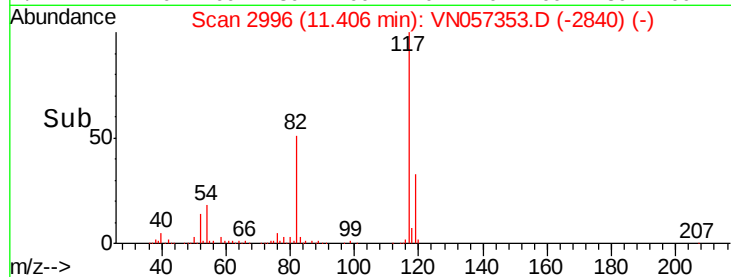
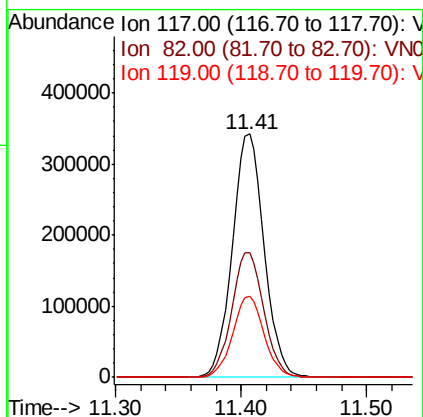
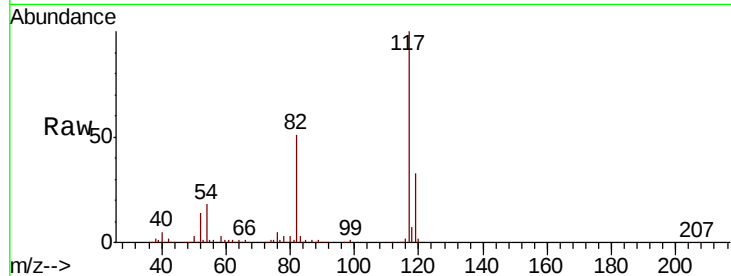




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057353.D
Acq: 16 Aug 2019 14:18

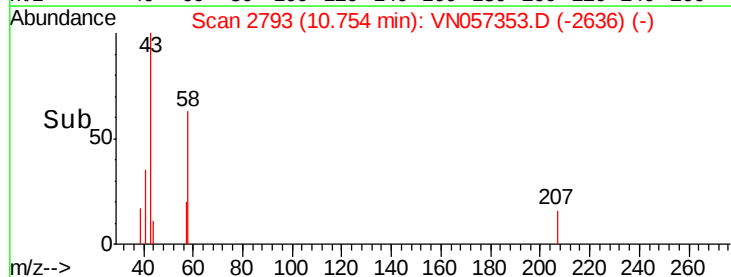
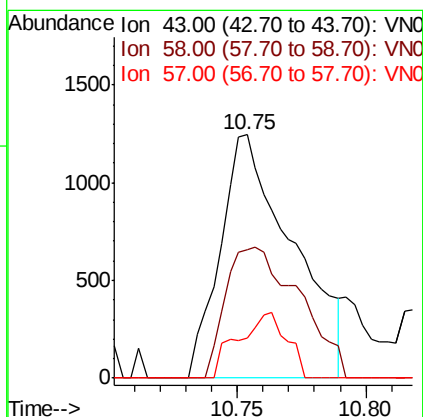
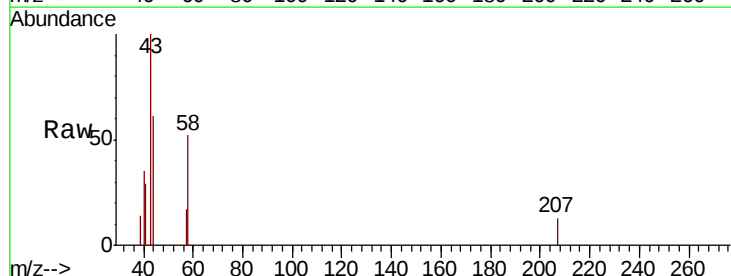
Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL02

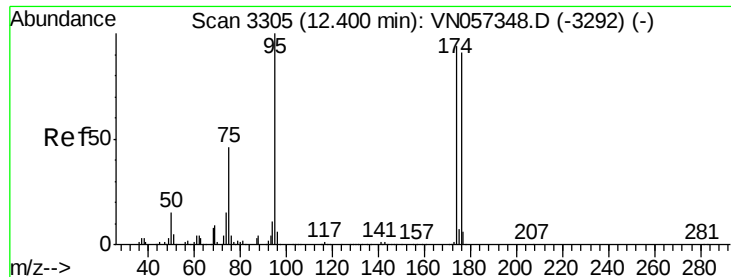
Tgt Ion: 117 Resp: 600895
Ion Ratio Lower Upper
117 100
82 52.0 43.0 64.4
119 32.8 26.0 39.0



#59
2-Hexanone
Concen: 0.434 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN057353.D
Acq: 16 Aug 2019 14:18

Tgt Ion: 43 Resp: 2438
Ion Ratio Lower Upper
43 100
58 37.0 44.4 66.6#
57 4.5 15.2 22.8#





#60

4-Bromofluorobenzene

Concen: 21.722 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL02

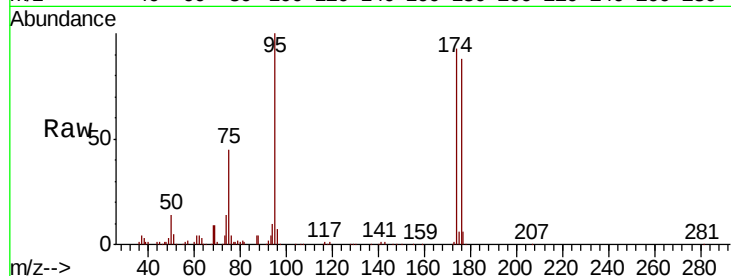
Tgt Ion: 95 Resp: 192200

Ion Ratio Lower Upper

95 100

174 96.0 72.6 108.8

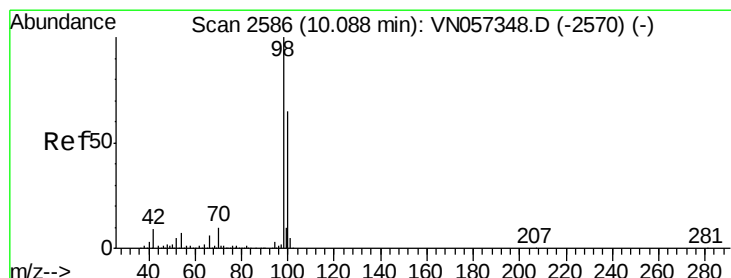
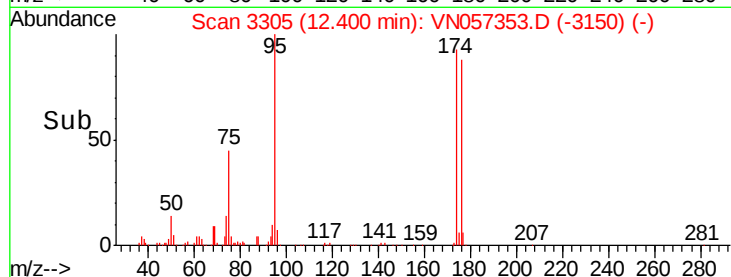
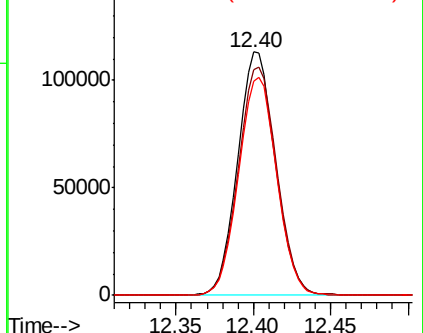
176 90.7 71.0 106.6



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: 33.013 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN057353.D

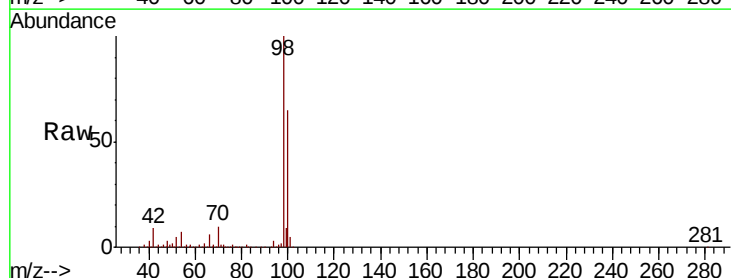
Acq: 16 Aug 2019 14:18

Tgt Ion: 98 Resp: 894761

Ion Ratio Lower Upper

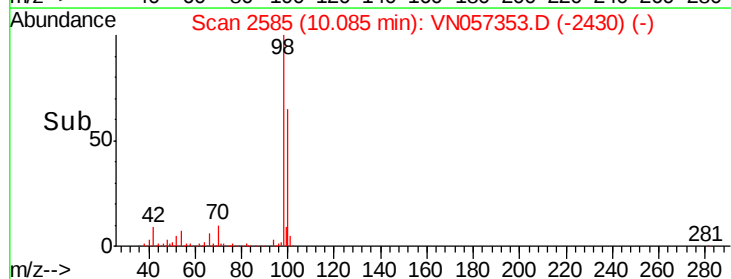
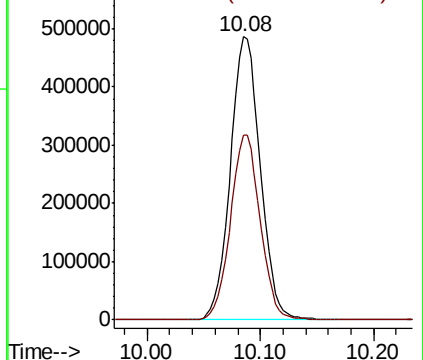
98 100

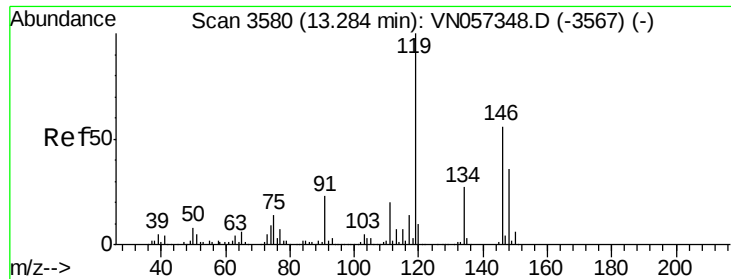
100 65.0 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): V

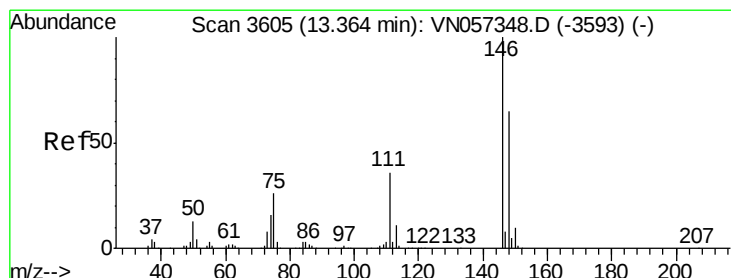
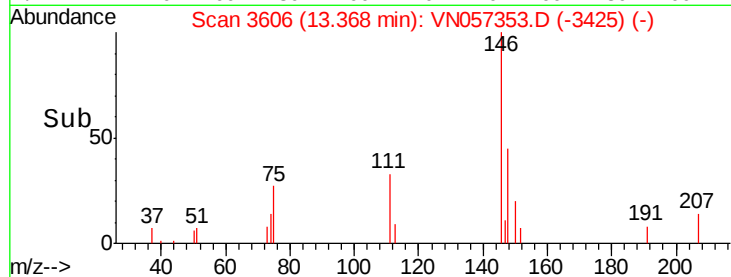
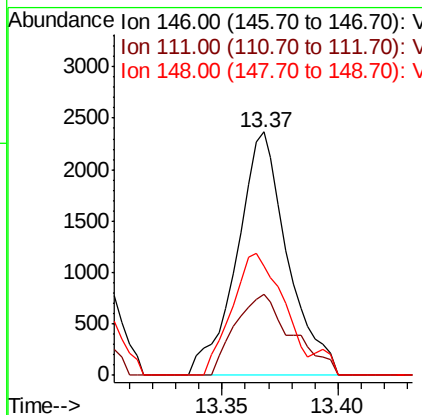
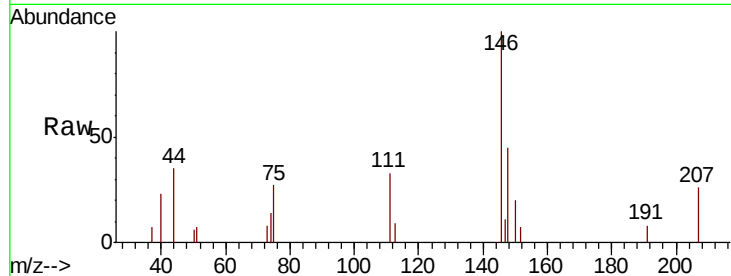




#83
 1,3-Dichlorobenzene
 Concen: 0.259 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.08 min
 Lab File: VN057353.D
 Acq: 16 Aug 2019 14:18

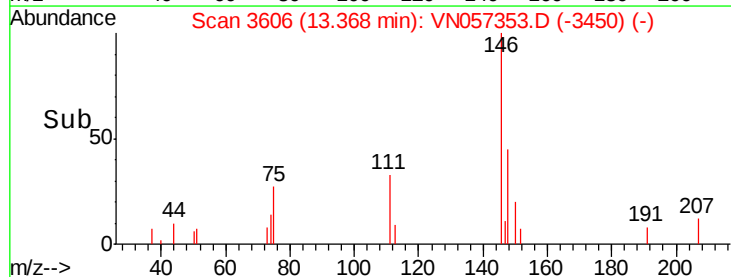
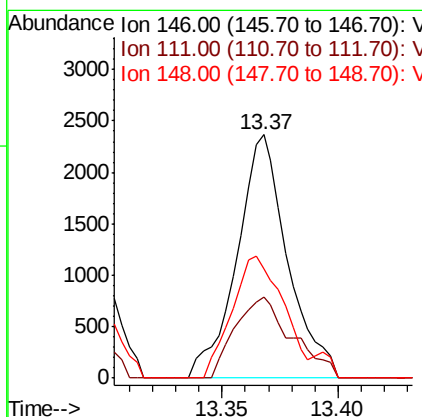
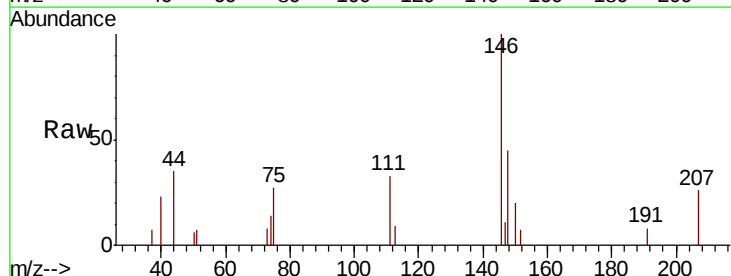
Instrument :
 MSVOA_N
 ClientSampleId :
 VN0817WBL02

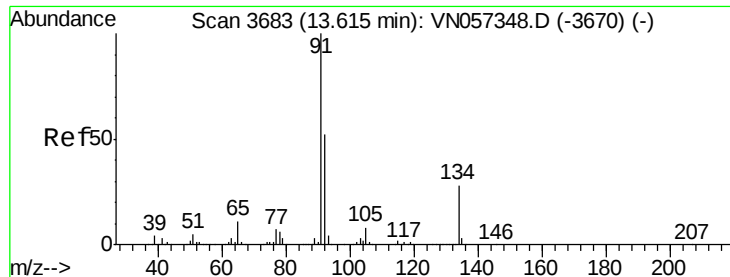
Tgt Ion:146 Resp: 3577
 Ion Ratio Lower Upper
 146 100
 111 31.3 18.7 56.1
 148 51.2 31.8 95.4



#84
 1,4-Dichlorobenzene
 Concen: 0.278 ug/l
 RT: 13.37 min Scan# 3606
 Delta R.T. 0.00 min
 Lab File: VN057353.D
 Acq: 16 Aug 2019 14:18

Tgt Ion:146 Resp: 3577
 Ion Ratio Lower Upper
 146 100
 111 31.3 17.8 53.4
 148 51.2 31.9 95.5





#85

n-Butylbenzene

Concen: 0.265 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. -0.00 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL02

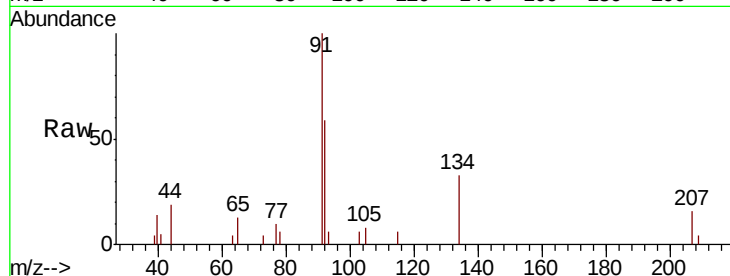
Tgt Ion: 91 Resp: 5721

Ion Ratio Lower Upper

91 100

92 58.1 0.0 104.0

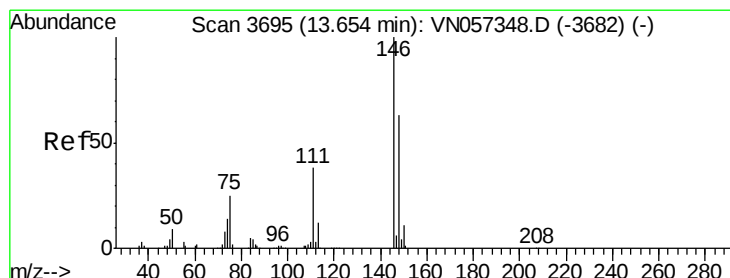
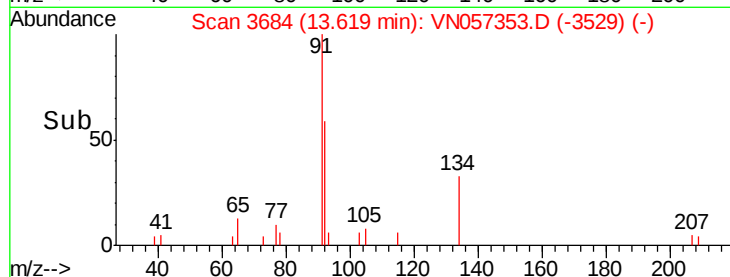
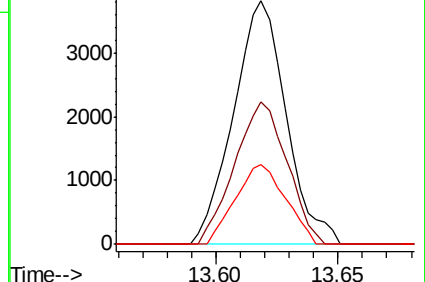
134 31.2 0.0 53.2



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 92.00 (91.70 to 92.70): VN0

Ion 134.00 (133.70 to 134.70): VN0



#87

1,2-Dichlorobenzene

Concen: 0.284 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. -0.00 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

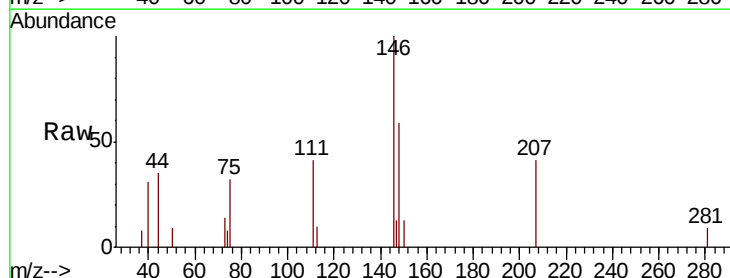
Tgt Ion: 146 Resp: 3700

Ion Ratio Lower Upper

146 100

111 34.4 19.7 59.0

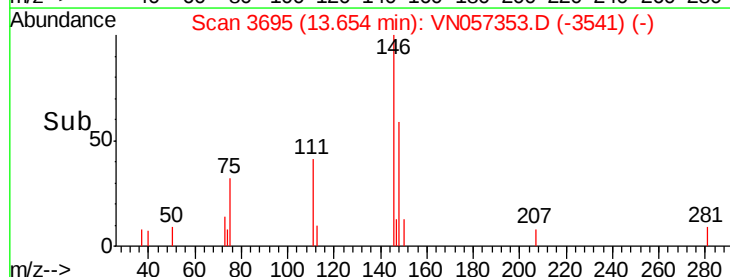
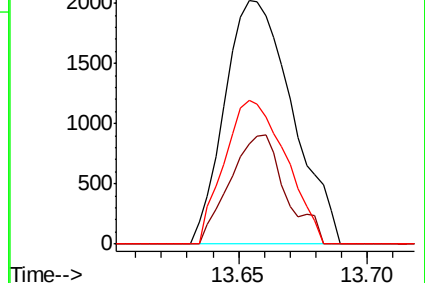
148 53.6 32.7 98.1

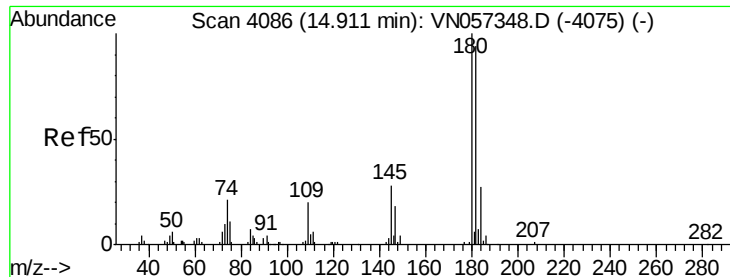


Abundance Ion 146.00 (145.70 to 146.70): VN0

Ion 111.00 (110.70 to 111.70): VN0

Ion 148.00 (147.70 to 148.70): VN0





#89

1,2,4-Trichlorobenzene

Concen: 1.231 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. -0.00 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

Instrument :

MSVOA_N

ClientSampleId :

VN0817WBL02

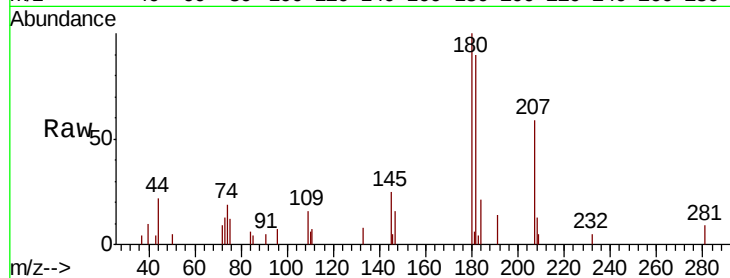
Tgt Ion:180 Resp: 5672

Ion Ratio Lower Upper

180 100

182 93.2 78.2 117.4

145 27.2 23.2 34.8

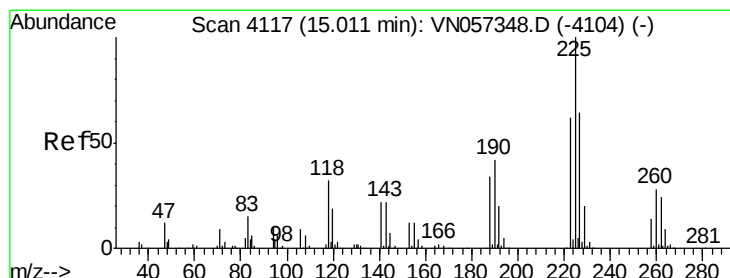
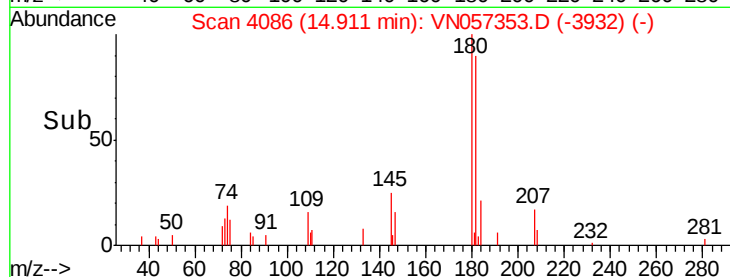
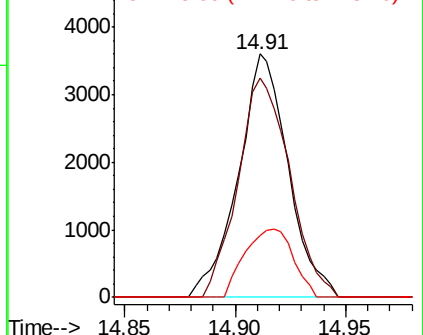


Abundance

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: 0.558 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. -0.00 min

Lab File: VN057353.D

Acq: 16 Aug 2019 14:18

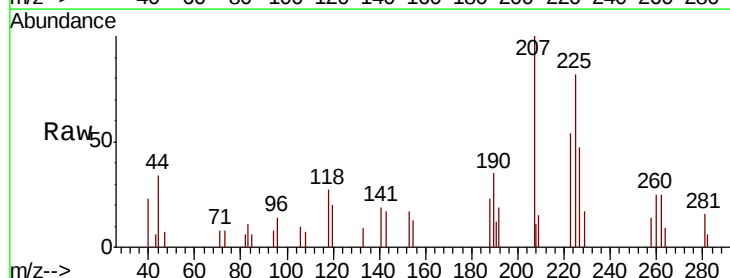
Tgt Ion:225 Resp: 3284

Ion Ratio Lower Upper

225 100

223 63.6 0.0 124.6

227 63.4 0.0 128.6

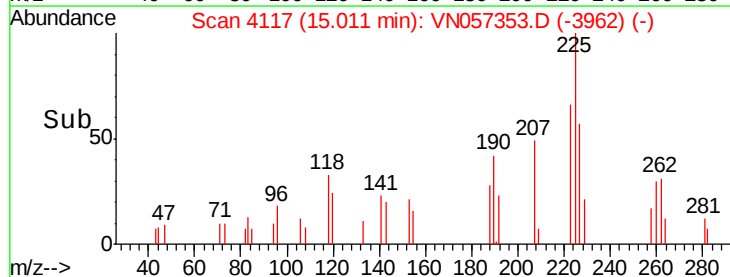
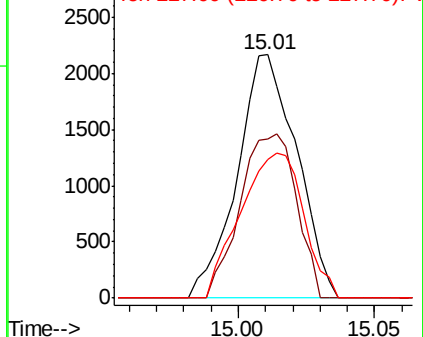


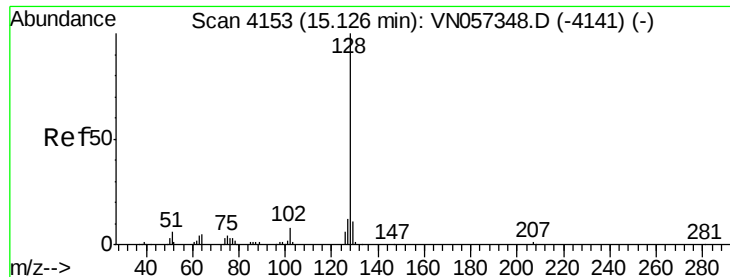
Abundance

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

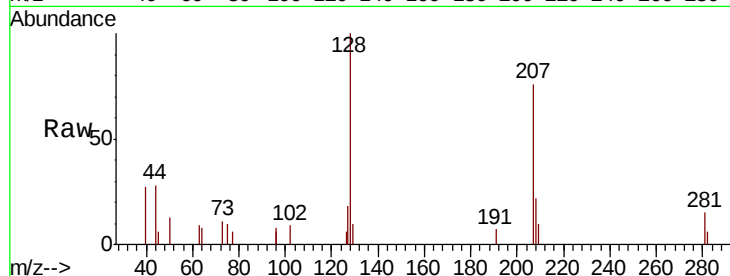




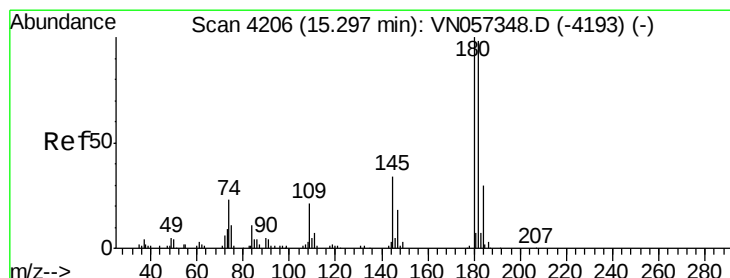
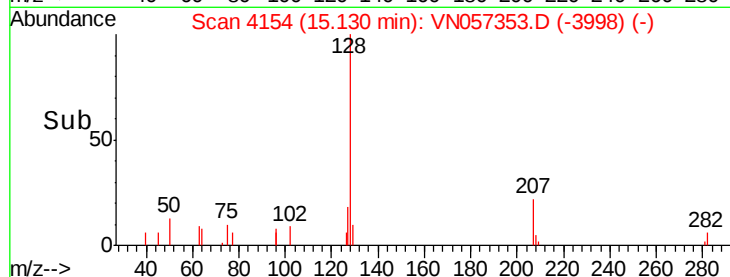
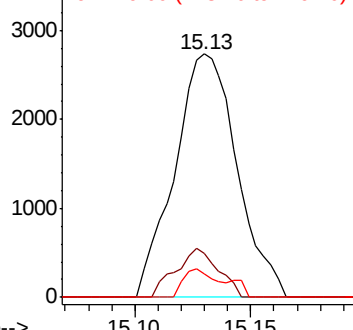
#91
Naphthalene
Concen: 0.512 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN057353.D
Acq: 16 Aug 2019 14:18

Instrument :
MSVOA_N
ClientSampleId :
VN0817WBL02

Tgt Ion:128 Resp: 5103
Ion Ratio Lower Upper
128 100
127 13.7 10.4 15.6
129 6.1 8.8 13.2#

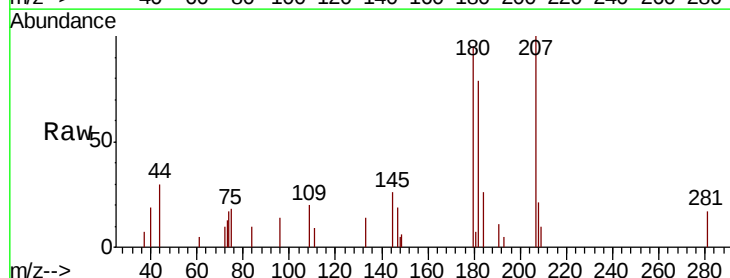


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 1.070 ug/l
RT: 15.29 min Scan# 4205
Delta R.T. -0.00 min
Lab File: VN057353.D
Acq: 16 Aug 2019 14:18

Tgt Ion:180 Resp: 4674
Ion Ratio Lower Upper
180 100
182 89.3 0.0 192.4
145 28.0 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

