

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082919\
 Data File : VN057558.D
 Acq On : 29 Aug 2019 19:11
 Operator : JC/SP
 Sample : K4555-15
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 30 12:08:05 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 30 08:56:38 2019
 Response via : Initial Calibration

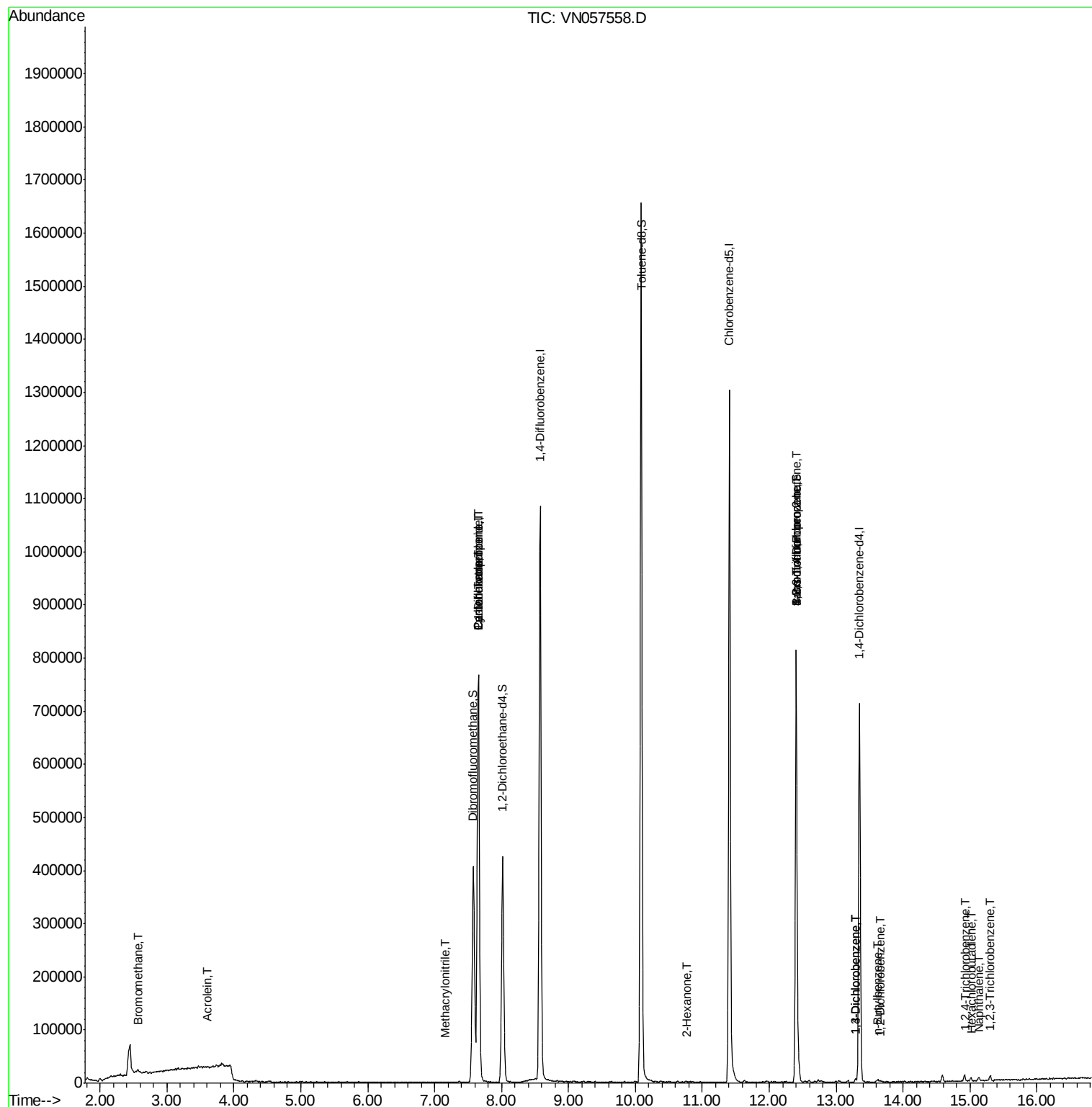
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	626324	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	989396	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	809944	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	204379	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	373228	37.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.80%	
35) Dibromofluoromethane	7.58	113	304220	35.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	70.84%	
50) Toluene-d8	10.08	98	1188267	37.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.72%	
62) 4-Bromofluorobenzene	12.40	95	297229	27.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	55.96%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	5851	0.655	ug/l	86
13) Acrolein	3.60	56	620	0.716	ug/l #	65
18) Methyl Acetate	4.31	43	648	Below Cal		100
31) Cyclohexane	7.65	56	13363	1.122	ug/l #	6
36) 1,1-Dichloropropene	7.65	75	44519	4.160	ug/l #	47
38) Carbon Tetrachloride	7.65	117	61625	4.924	ug/l #	16
41) Methacrylonitrile	7.15	41	263	1.346	ug/l #	41
59) 2-Hexanone	10.76	43	1290	0.264	ug/l	70
71) Bromoform	12.41	173	1964	0.367	ug/l #	1
73) Isopropylbenzene	12.25	105	1267	Below Cal		86
74) N-amyl acetate	12.07	43	572	Below Cal	#	74
75) 1,1,2,2-Tetrachloroethane	12.40	83	327	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	157834	41.419	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	157834	116.121	ug/l #	8
83) tert-Butylbenzene	13.00	119	1058	Below Cal		72
87) 1,3-Dichlorobenzene	13.29	146	1534	0.209	ug/l	84
88) 1,4-Dichlorobenzene	13.29	146	1534	0.218	ug/l	86
89) n-Butylbenzene	13.62	91	3577	0.292	ug/l	95
91) 1,2-Dichlorobenzene	13.66	146	1863	0.273	ug/l	82
93) 1,2,4-Trichlorobenzene	14.92	180	3860	5.042	ug/l	97
94) Hexachlorobutadiene	15.01	225	1084	0.481	ug/l #	71
95) Naphthalene	15.13	128	5247	0.776	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	3277	1.419	ug/l	99

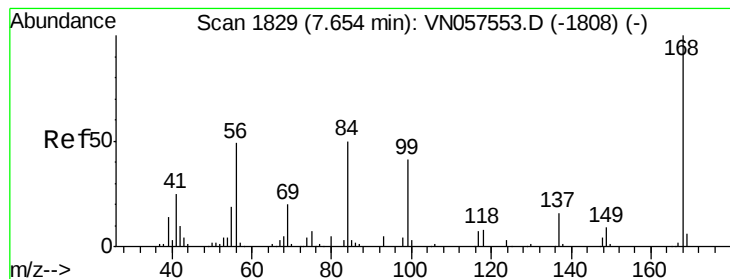
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN082919\
Data File : VN057558.D
Acq On : 29 Aug 2019 19:11
Operator : JC/SP
Sample : K4555-15
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Aug 30 12:08:05 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N082919W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 30 08:56:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

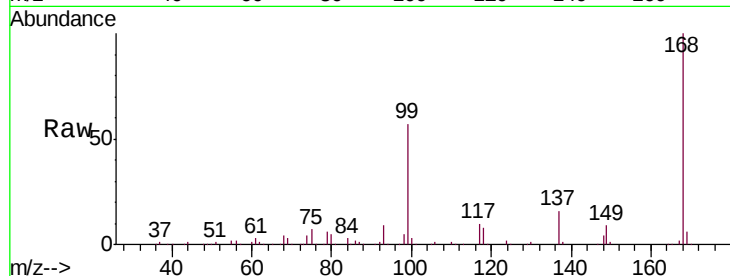
ClientSampleId :

Tot Ion:168 Resp: 626324

Ion Ratio Lower Upper

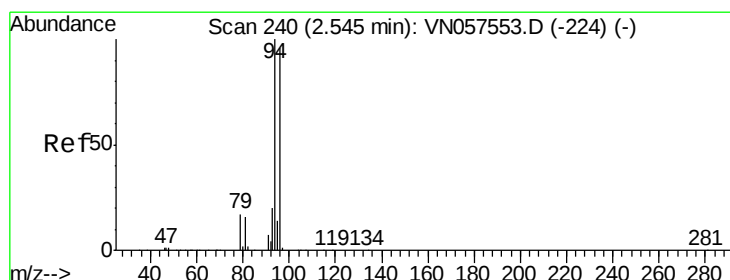
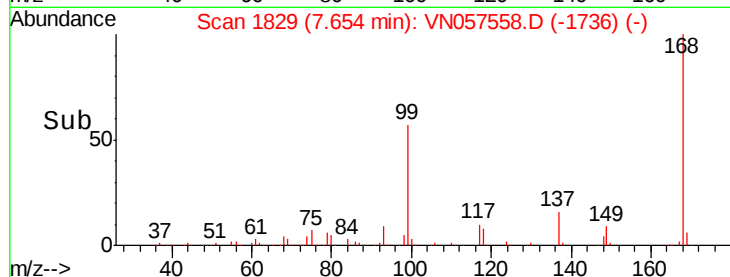
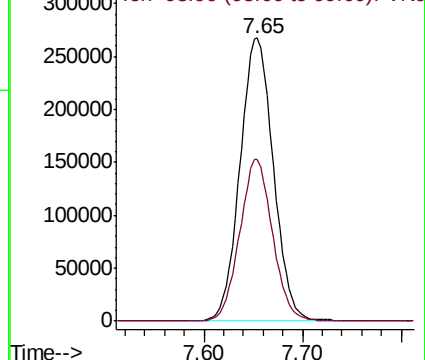
168 100

99 57.2 50.6 76.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#5

Bromomethane

Concen: 0.655 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.03 min

Lab File: VN057558.D

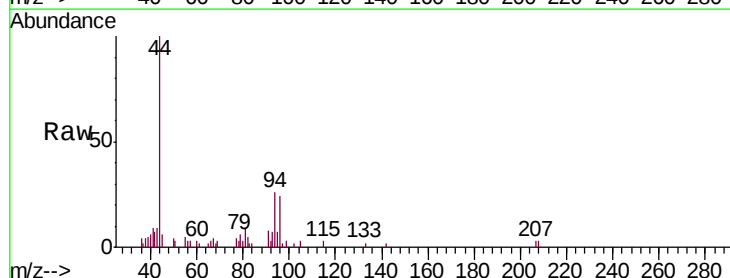
Acq: 29 Aug 2019 19:11

Tgt Ion: 94 Resp: 5851

Ion Ratio Lower Upper

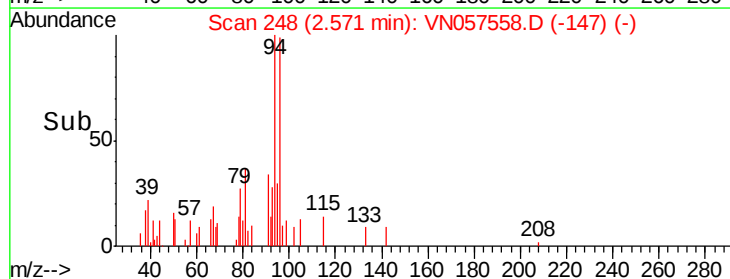
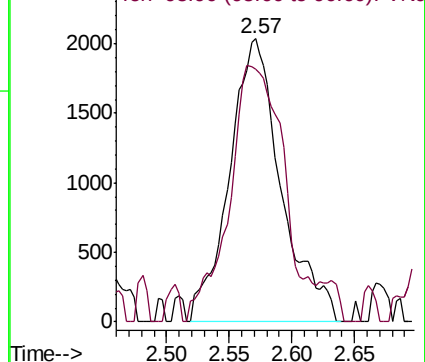
94 100

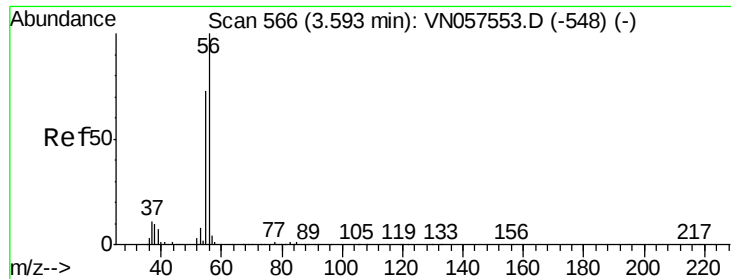
96 81.8 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN





#13

Acrolein

Concen: 0.716 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

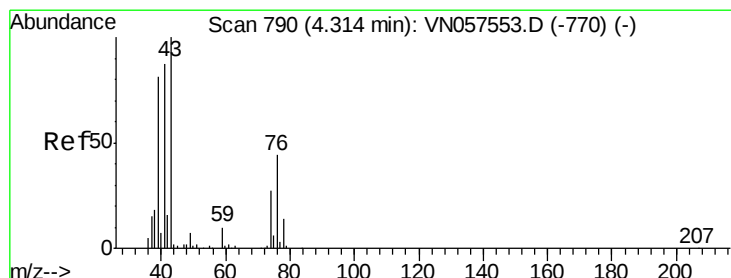
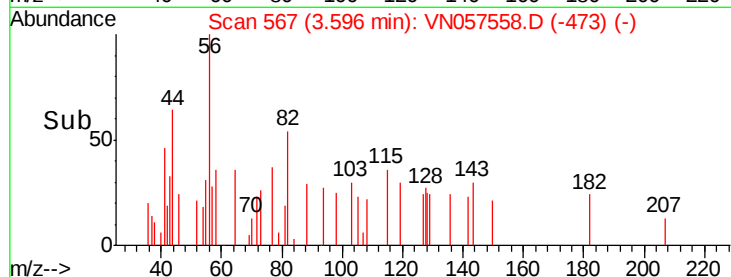
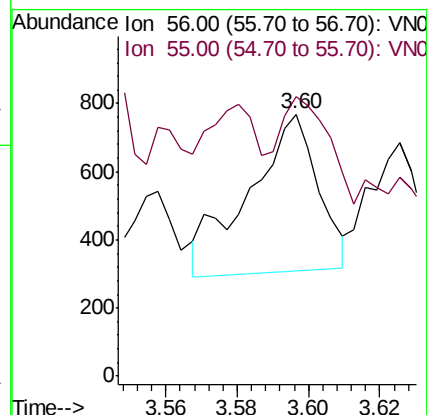
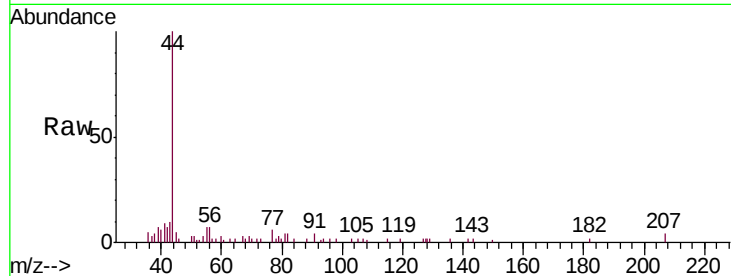
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 620

Ion Ratio Lower Upper

56 100

55 44.2 59.0 88.4#



#18

Methyl Acetate

Concen: Below Cal

RT: 4.31 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN057558.D

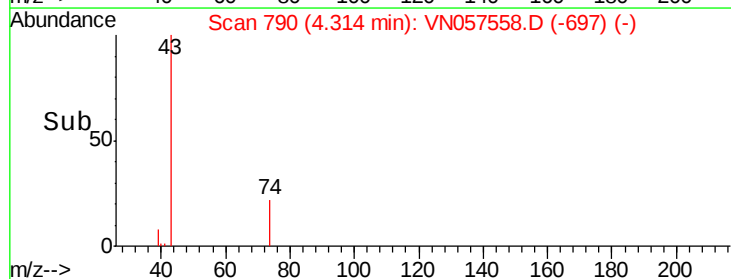
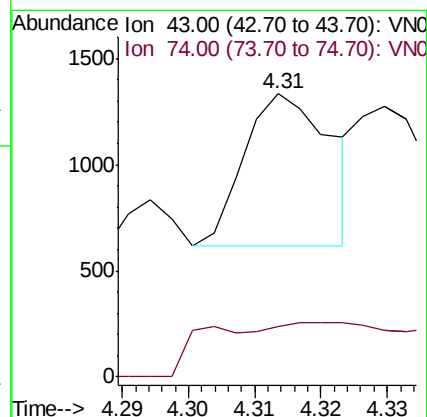
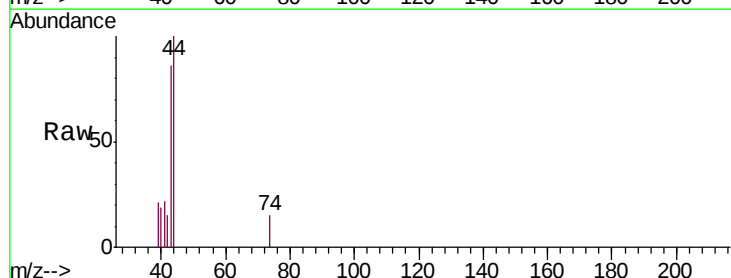
Acq: 29 Aug 2019 19:11

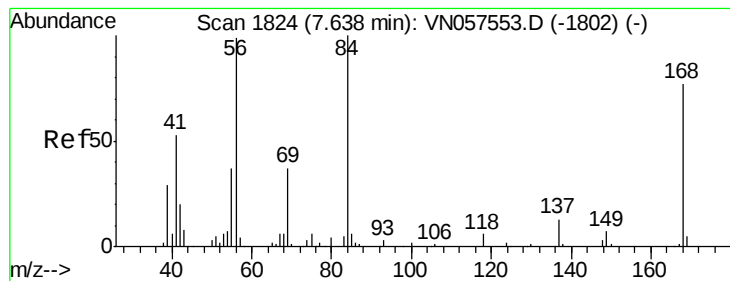
Tgt Ion: 43 Resp: 648

Ion Ratio Lower Upper

43 100

74 19.9 15.9 23.9





#31

Cyclohexane

Concen: 1.122 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :
MSVOA_N
ClientSampleId :

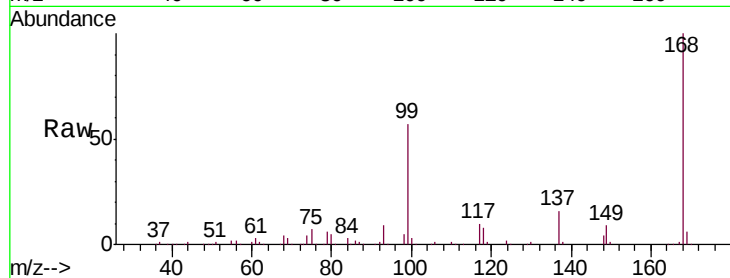
Tot Ion: 56 Resp: 13363

Ion Ratio Lower Upper

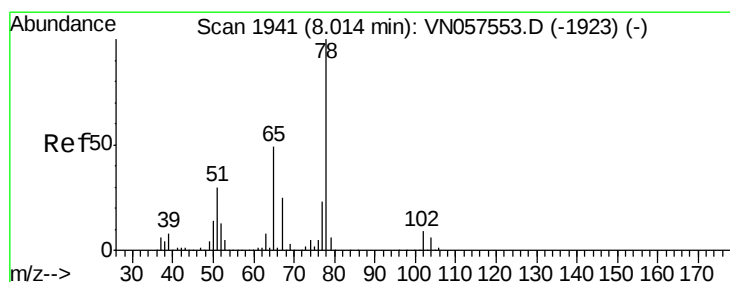
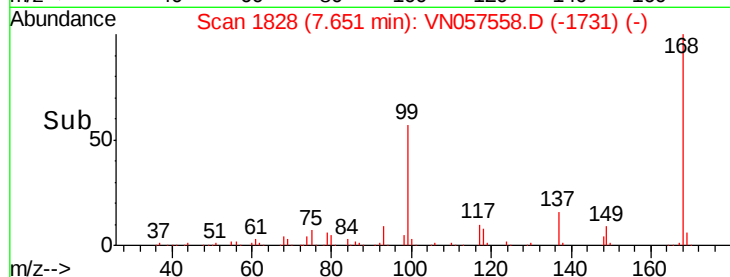
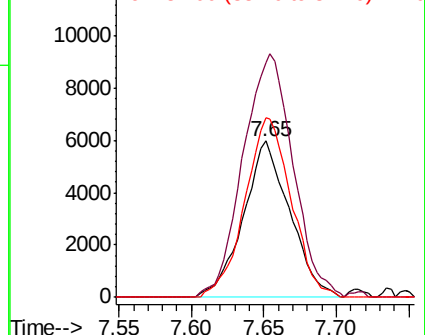
56 100

69 150.3 25.0 37.6#

84 117.7 62.5 93.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 37.895 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057558.D

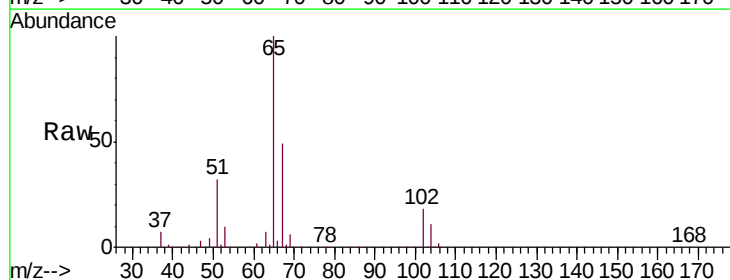
Acq: 29 Aug 2019 19:11

Tgt Ion: 65 Resp: 373228

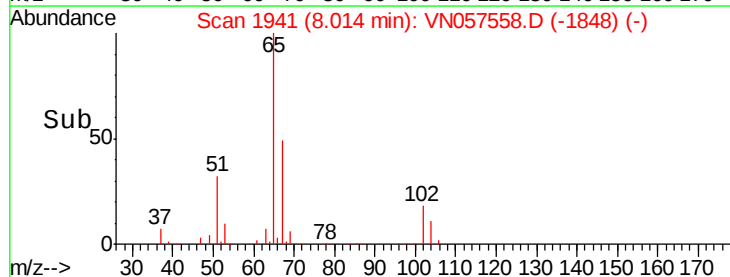
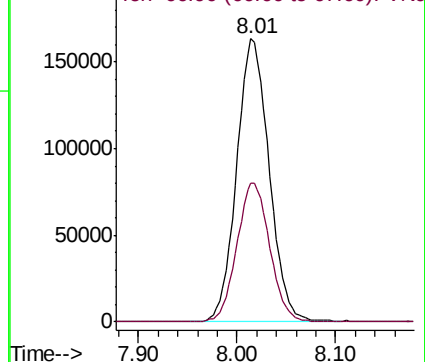
Ion Ratio Lower Upper

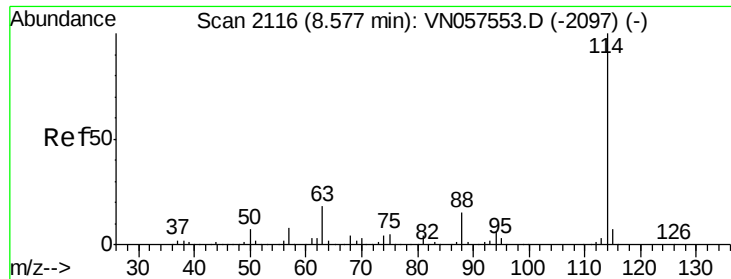
65 100

67 49.7 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

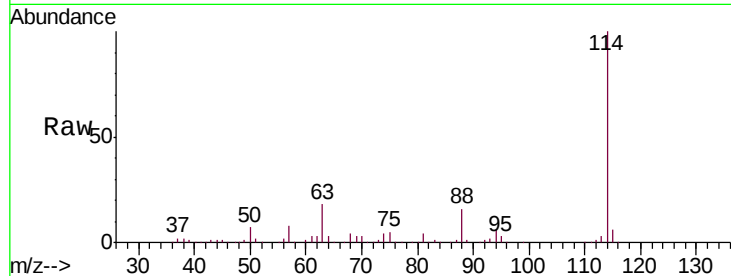




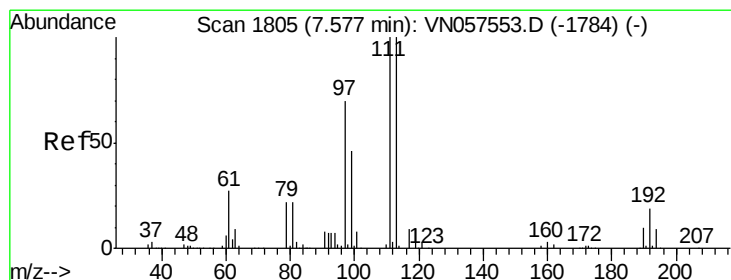
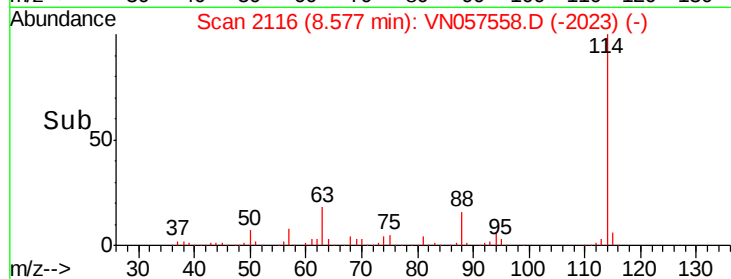
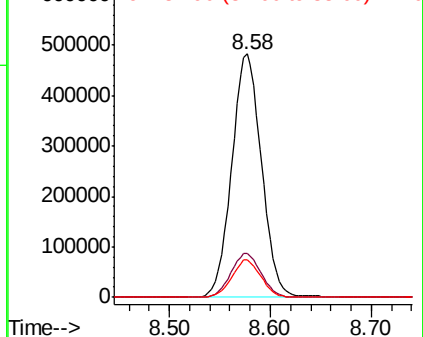
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 989396
 Ion Ratio Lower Upper
 114 100
 63 18.1 0.0 50.2
 88 15.6 0.0 34.6

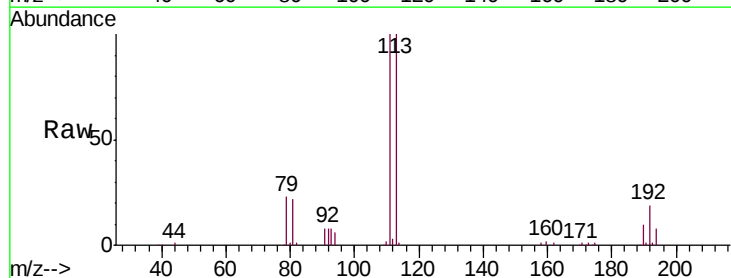


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

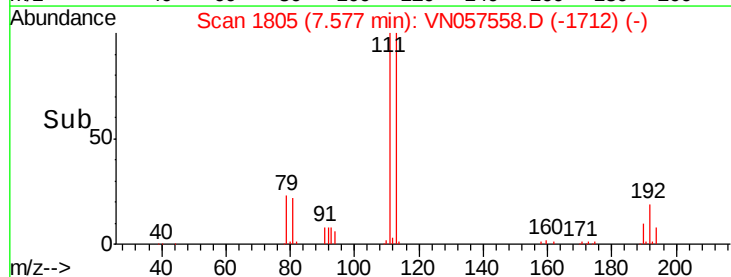
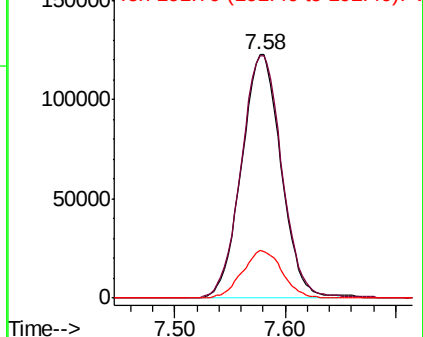


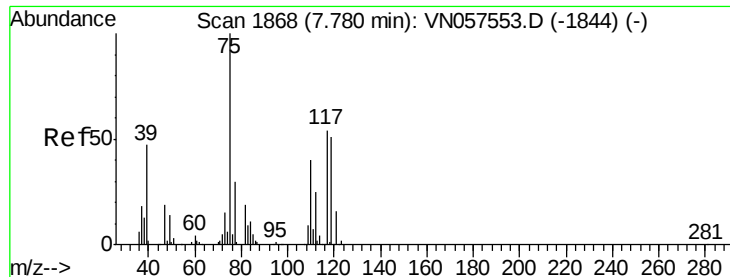
#35
 Dibromofluoromethane
 Concen: 35.422 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

Tgt Ion:113 Resp: 304220
 Ion Ratio Lower Upper
 113 100
 111 102.7 83.8 125.6
 192 19.7 13.5 20.3



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

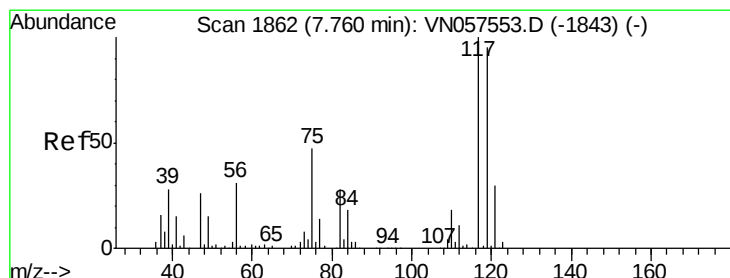
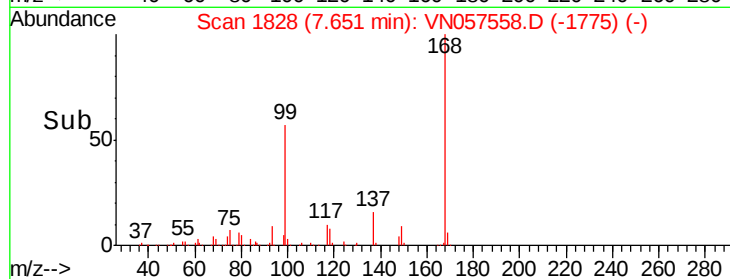
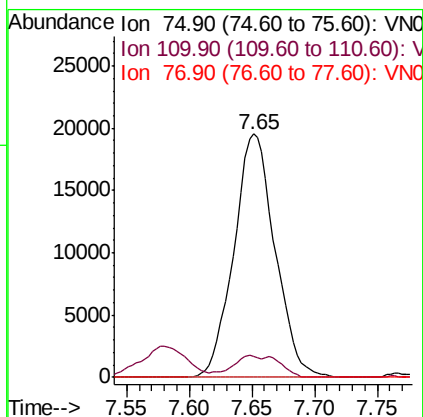
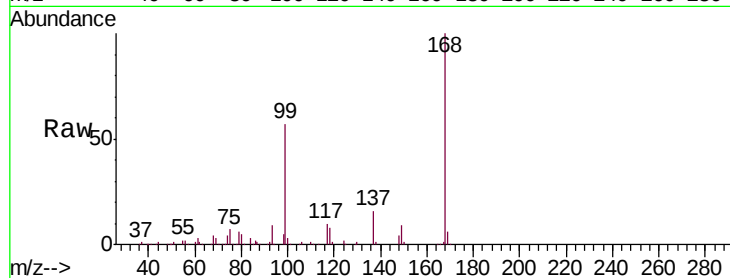




#36
 1,1-Dichloropropene
 Concen: 4.160 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

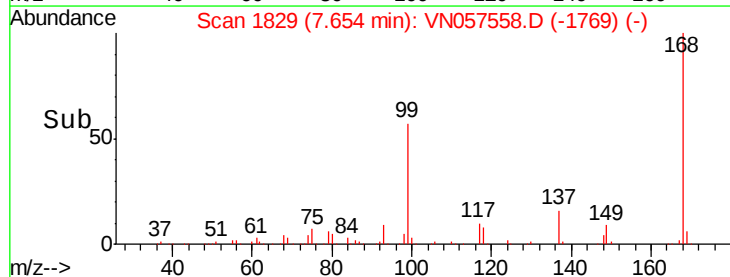
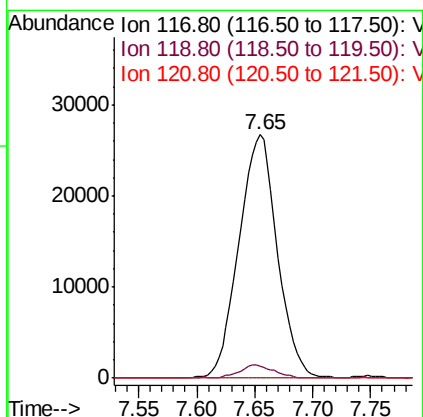
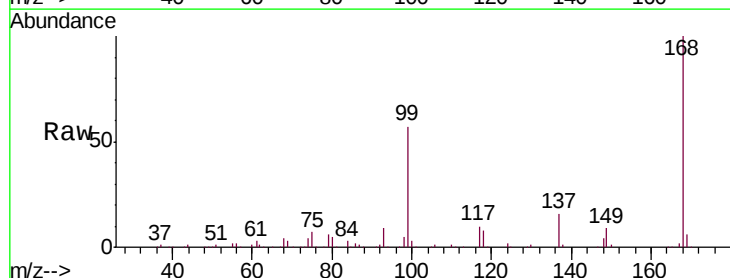
Instrument :
 MSVOA_N
 ClientSampleId :

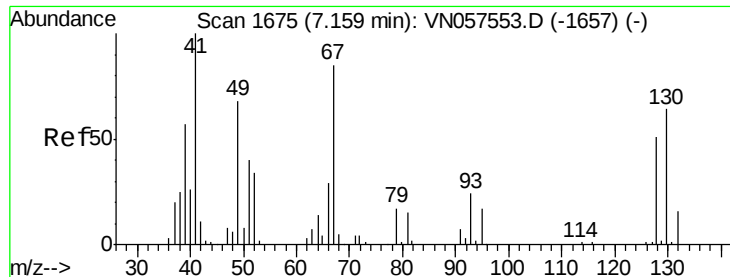
Tot Ion	75	Resp	44519
Ion Ratio	Lower	Upper	
75	100		
110	3.9	16.1	48.3#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 4.924 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.11 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

Tgt Ion	117	Resp	61625
Ion Ratio	Lower	Upper	
117	100		
119	4.9	76.2	114.4#
121	0.0	23.8	35.6#

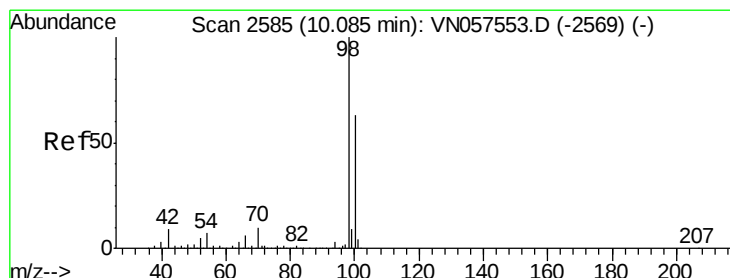
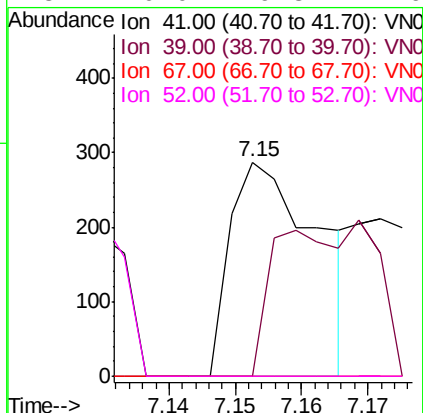
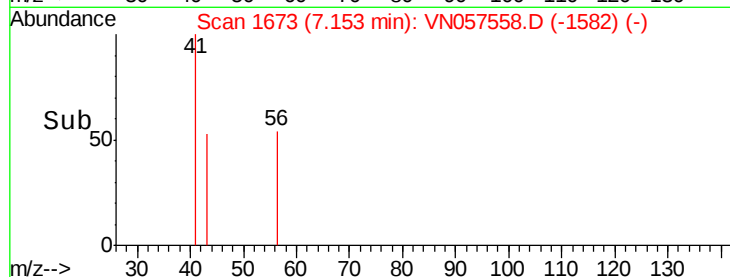
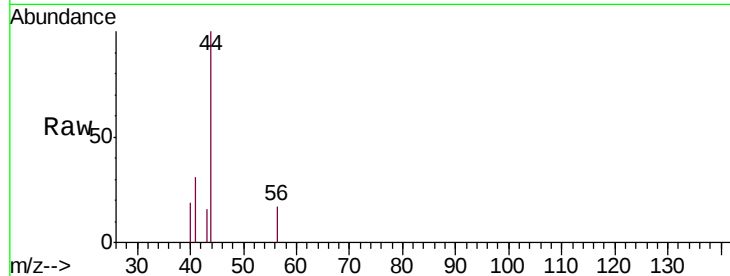




#41
Methacrylonitrile
Concen: 1.346 ug/l
RT: 7.15 min Scan# 1673
Delta R.T. -0.01 min
Lab File: VN057558.D
Acq: 29 Aug 2019 19:11

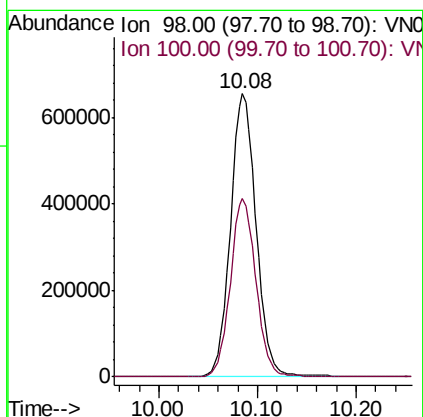
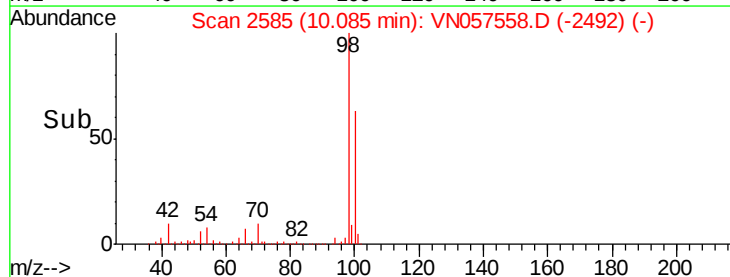
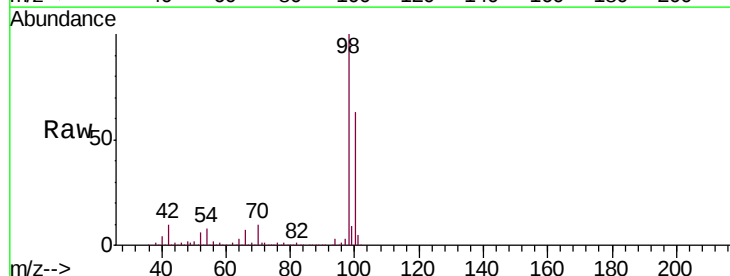
Instrument :
MSVOA_N
ClientSampled :

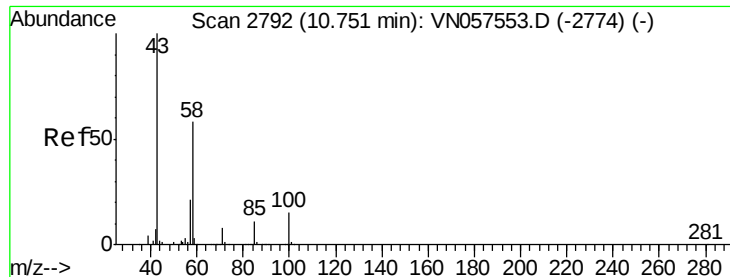
Tot Ion: 41 Resp: 263
Ion Ratio Lower Upper
41 100
39 81.4 53.6 80.4#
67 0.0 65.4 98.2#
52 0.0 29.8 44.6#



#50
Toluene-d8
Concen: 37.856 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057558.D
Acq: 29 Aug 2019 19:11

Tgt Ion: 98 Resp: 1188267
Ion Ratio Lower Upper
98 100
100 62.7 50.4 75.6

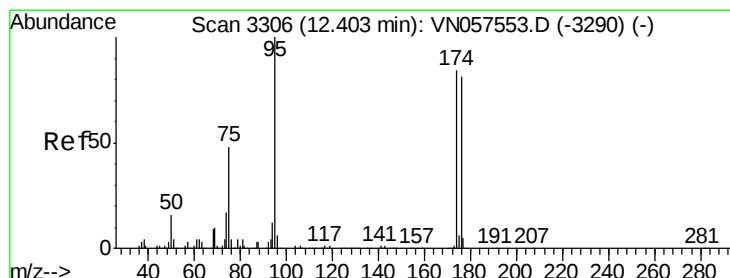
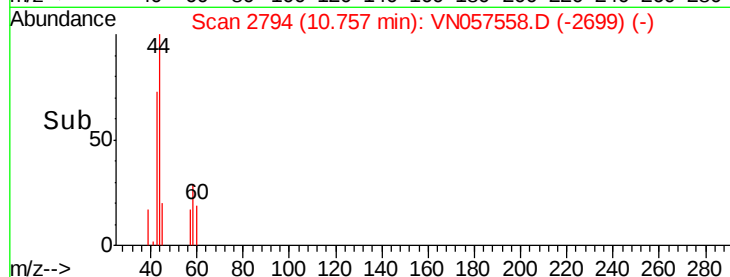
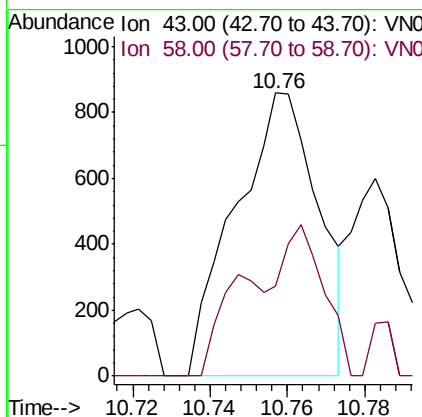
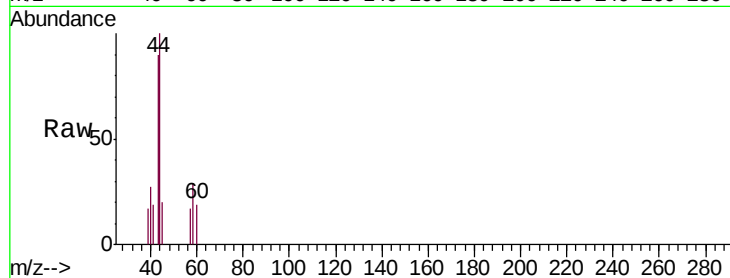




#59
2-Hexanone
Concen: 0.264 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN057558.D
Acq: 29 Aug 2019 19:11

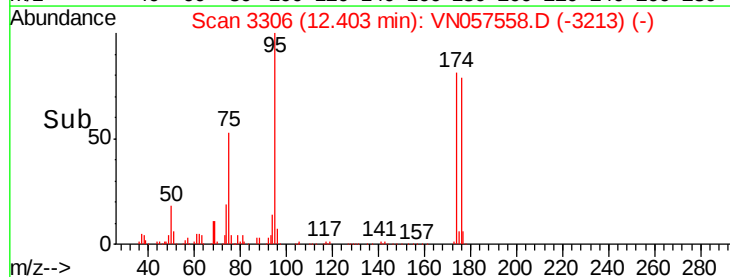
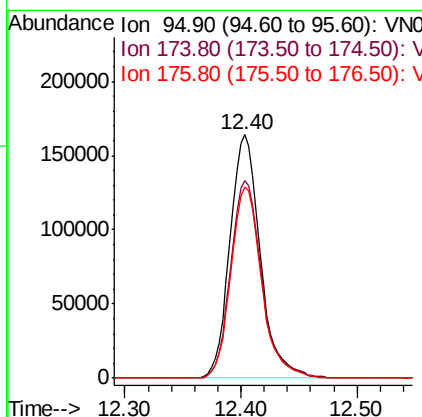
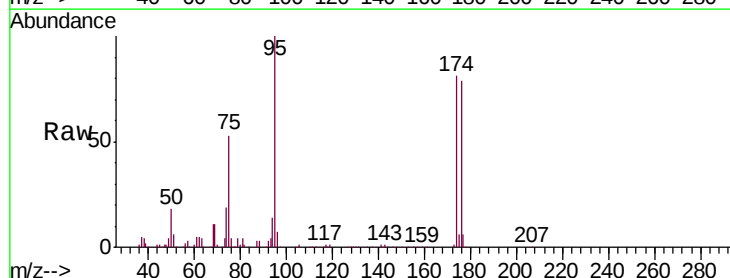
Instrument :
MSVOA_N
ClientSampled :

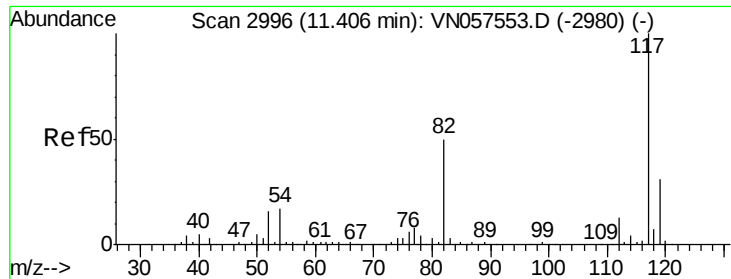
Tot Ion: 43 Resp: 1290
Ion Ratio Lower Upper
43 100
58 28.9 24.6 73.6



#62
4-Bromofluorobenzene
Concen: 27.984 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN057558.D
Acq: 29 Aug 2019 19:11

Tgt Ion: 95 Resp: 297229
Ion Ratio Lower Upper
95 100
174 83.2 0.0 133.0
176 79.5 0.0 130.8

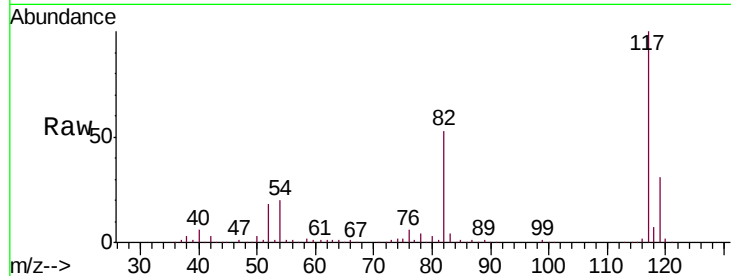




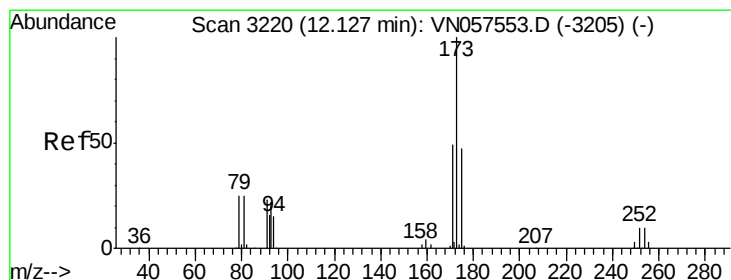
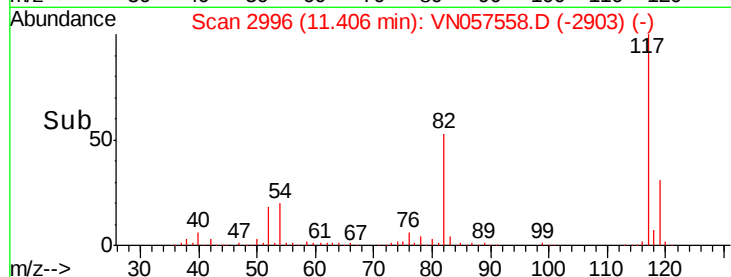
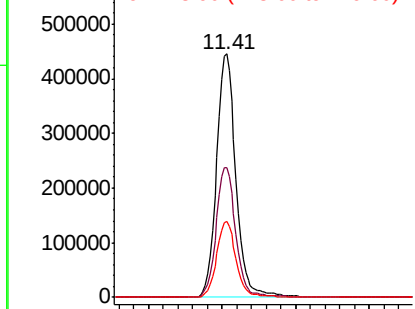
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN057558.D
Acq: 29 Aug 2019 19:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 809944
Ion Ratio Lower Upper
117 100
82 53.2 50.6 75.8
119 31.0 24.6 36.8

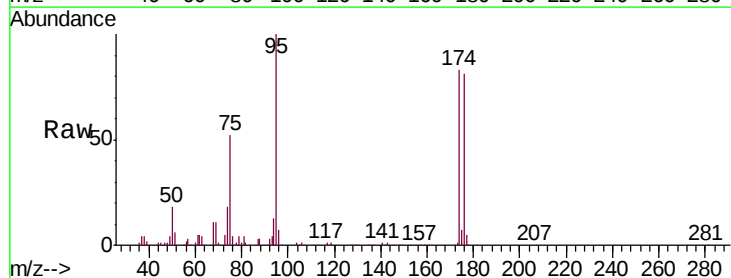


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

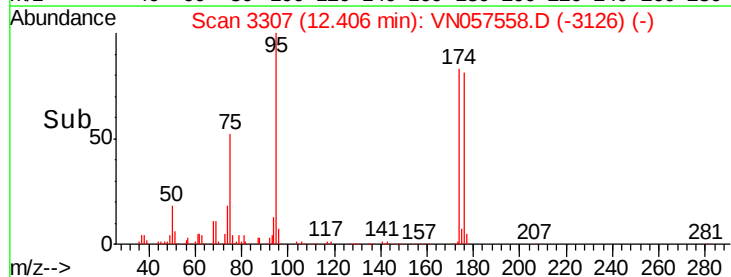
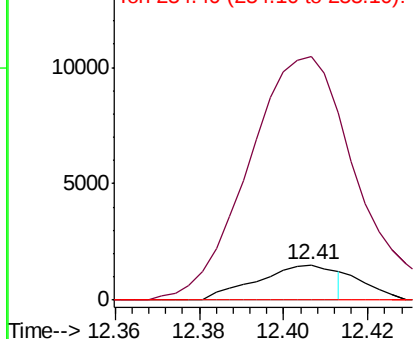


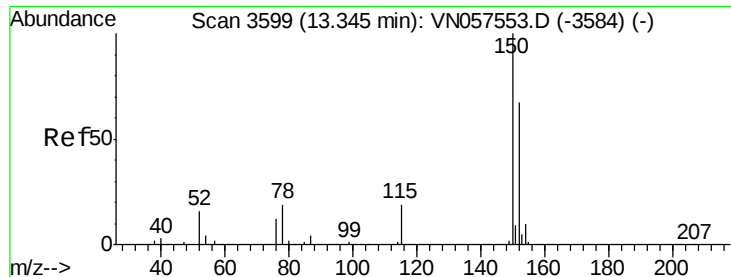
#71
Bromoform
Concen: 0.367 ug/l
RT: 12.41 min Scan# 3307
Delta R.T. 0.28 min
Lab File: VN057558.D
Acq: 29 Aug 2019 19:11

Tgt Ion:173 Resp: 1964
Ion Ratio Lower Upper
173 100
175 760.3 23.9 71.8#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

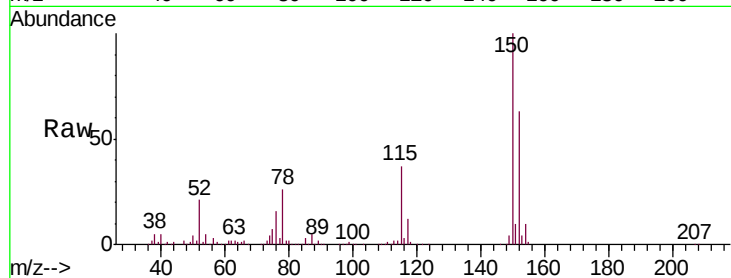
Tot Ion:152 Resp: 204379

Ion Ratio Lower Upper

152 100

115 59.3 32.0 96.0

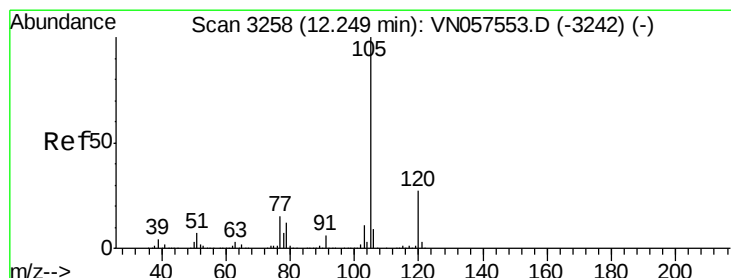
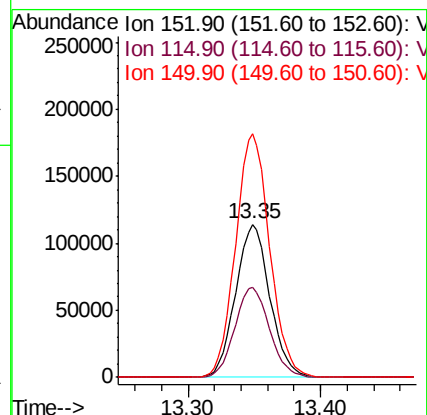
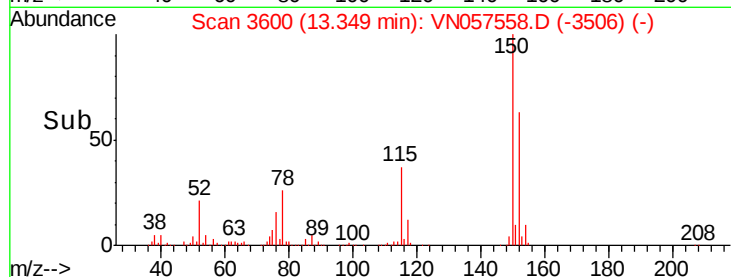
150 158.5 0.0 346.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.25 min Scan# 3257

Delta R.T. -0.00 min

Lab File: VN057558.D

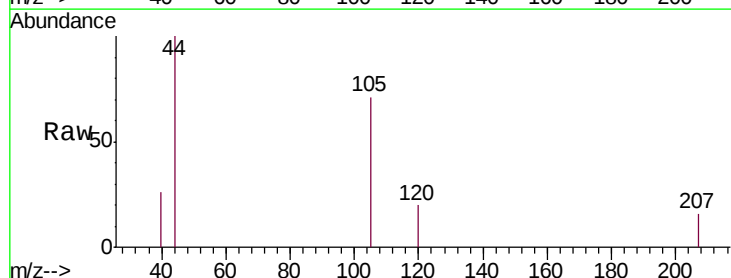
Acq: 29 Aug 2019 19:11

Tgt Ion:105 Resp: 1267

Ion Ratio Lower Upper

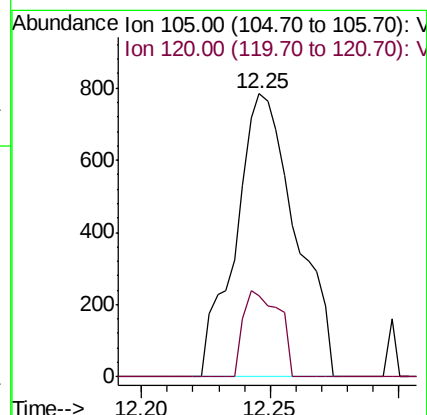
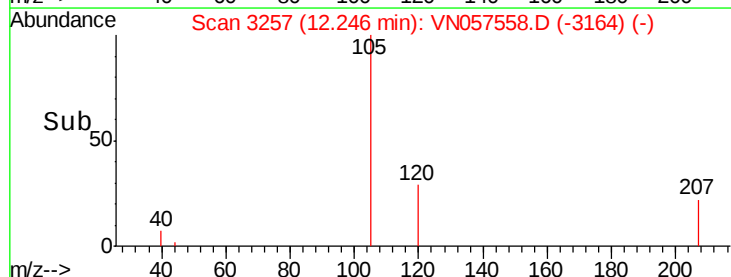
105 100

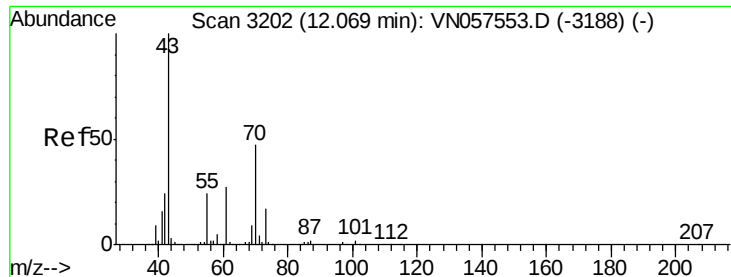
120 18.2 12.7 38.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: Below Cal

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 572

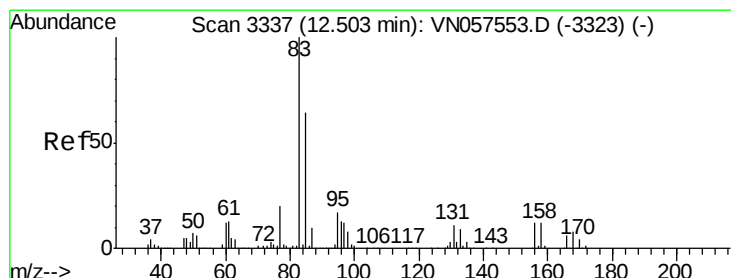
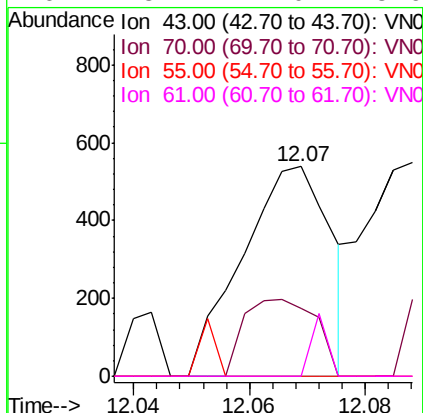
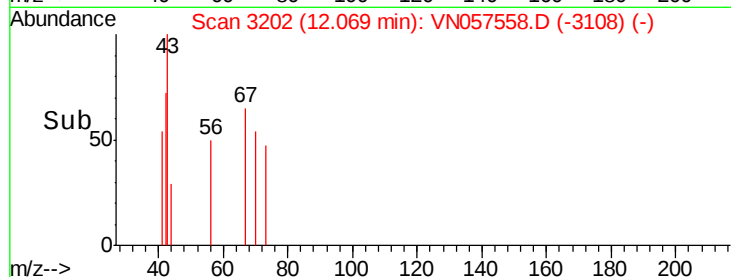
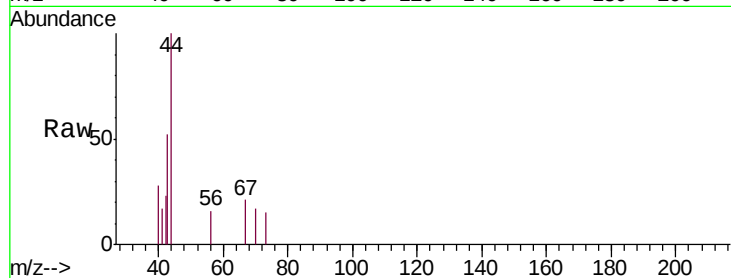
Ion Ratio Lower Upper

43 100

70 29.7 27.8 41.6

55 0.0 17.0 25.4#

61 5.4 17.0 25.6#



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

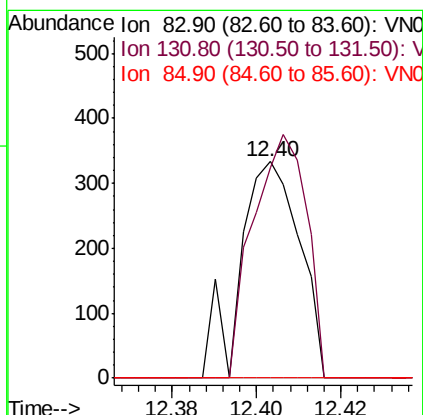
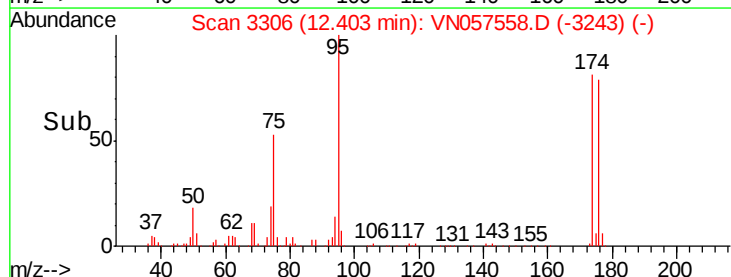
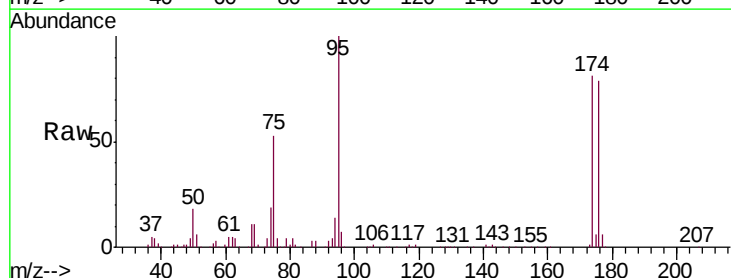
Tgt Ion: 83 Resp: 327

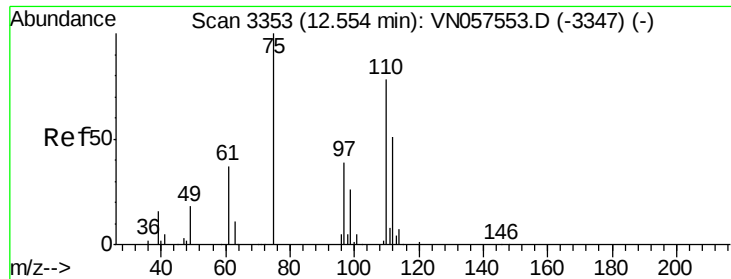
Ion Ratio Lower Upper

83 100

131 101.2 4.3 13.1#

85 0.0 32.3 96.8#





#76

1,2,3-Trichloropropane

Concen: 41.419 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

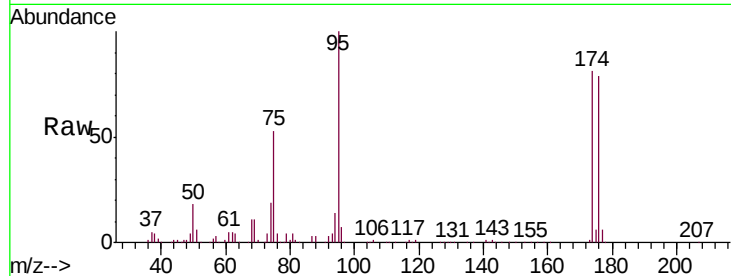
ClientSampled :

Tot Ion: 75 Resp: 157834

Ion Ratio Lower Upper

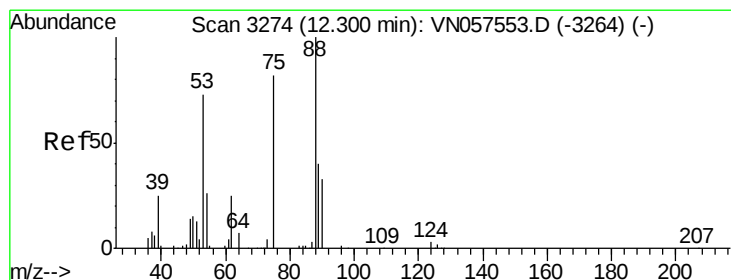
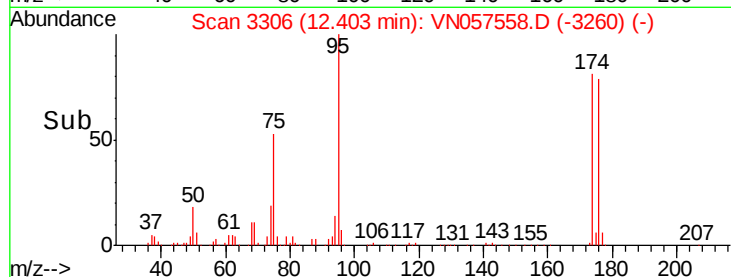
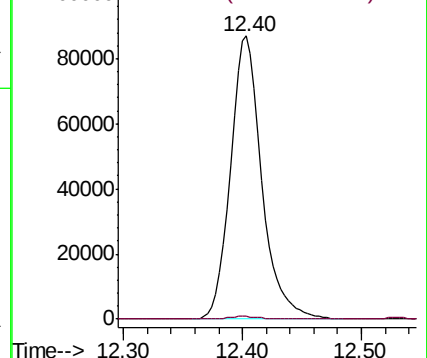
75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 116.121 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

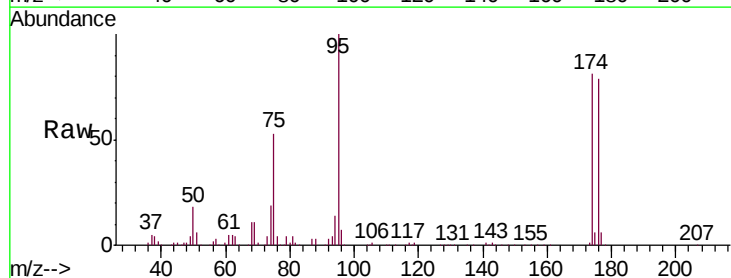
Tgt Ion: 75 Resp: 157834

Ion Ratio Lower Upper

75 100

53 0.0 82.7 124.1#

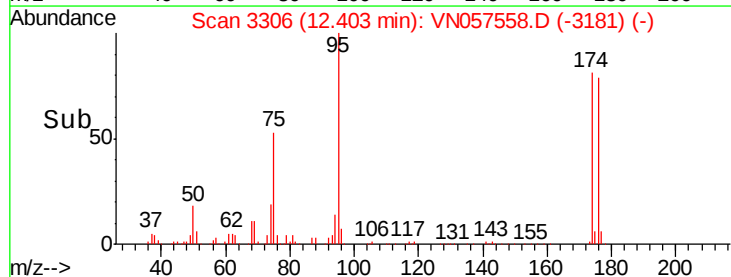
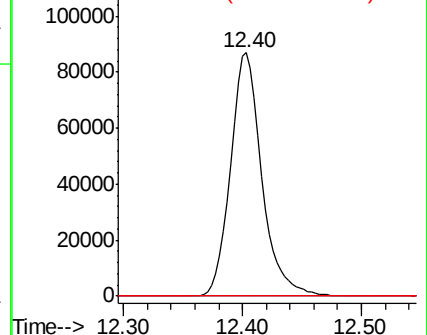
89 0.0 35.8 53.8#

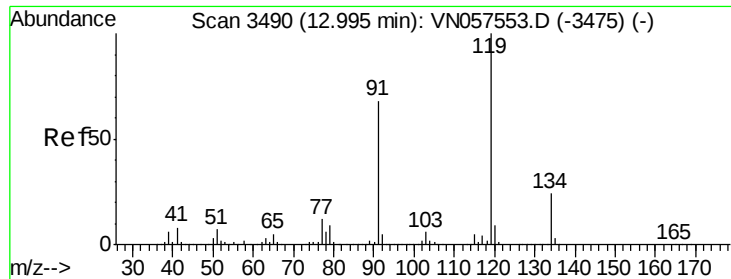


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

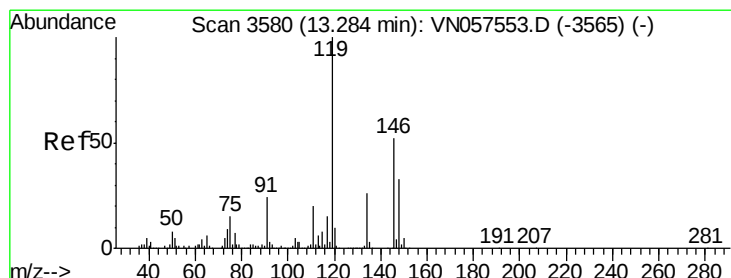
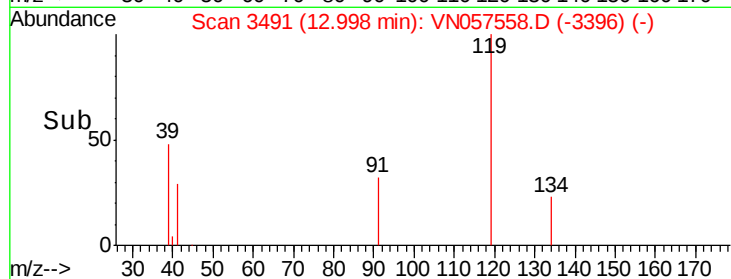
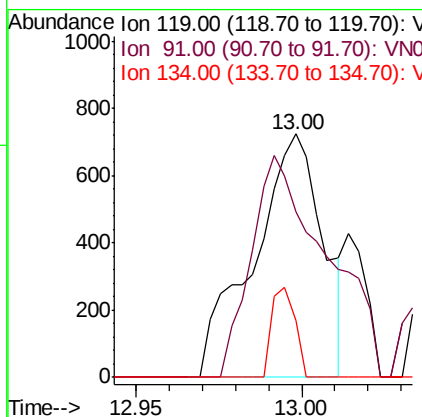
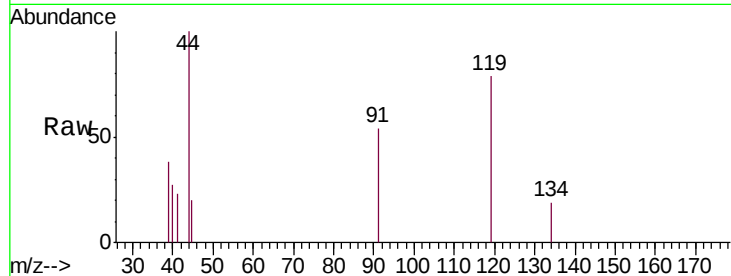




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 13.00 min Scan# 3491
 Delta R.T. 0.00 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

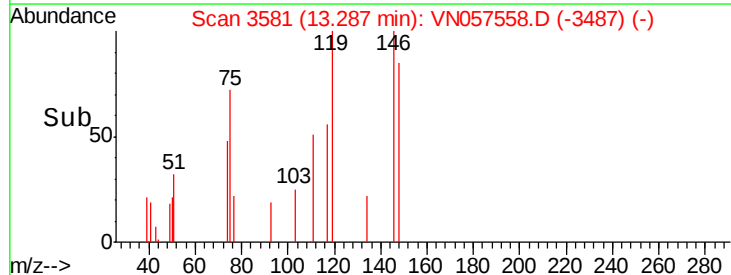
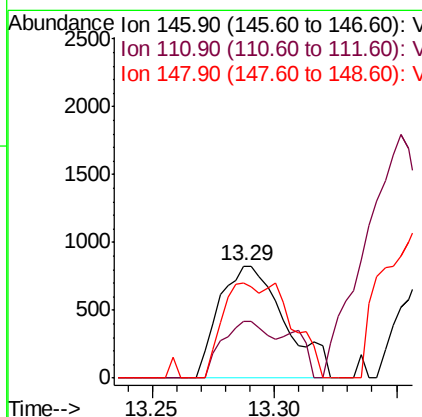
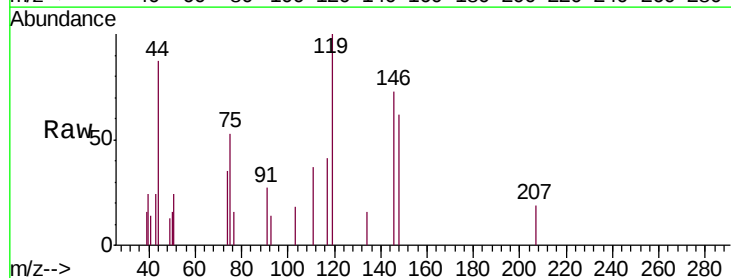
Instrument :
 MSVOA_N
 ClientSampled :

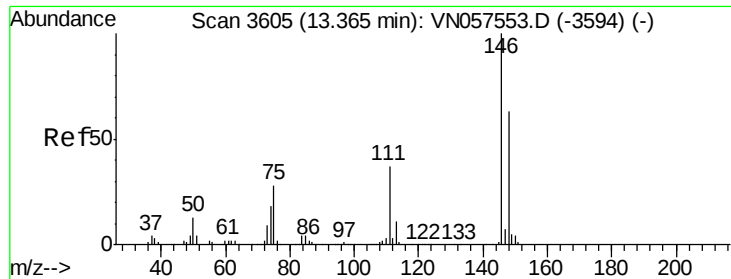
Tot Ion:119 Resp: 1058
 Ion Ratio Lower Upper
 119 100
 91 98.7 37.0 111.0
 134 12.4 12.2 36.6



#87
 1,3-Dichlorobenzene
 Concen: 0.209 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

Tgt Ion:146 Resp: 1534
 Ion Ratio Lower Upper
 146 100
 111 37.0 22.1 66.1
 148 49.2 31.9 95.9





#88

1,4-Dichlorobenzene

Concen: 0.218 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. -0.08 min

Lab File: VN057558.D

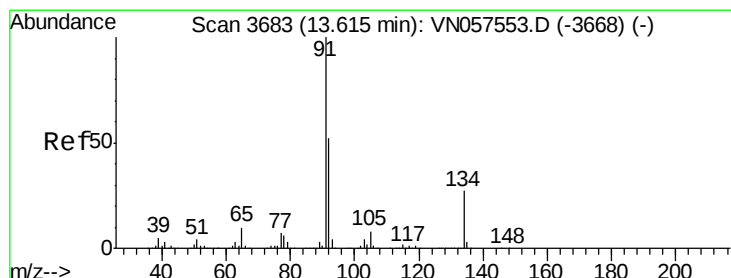
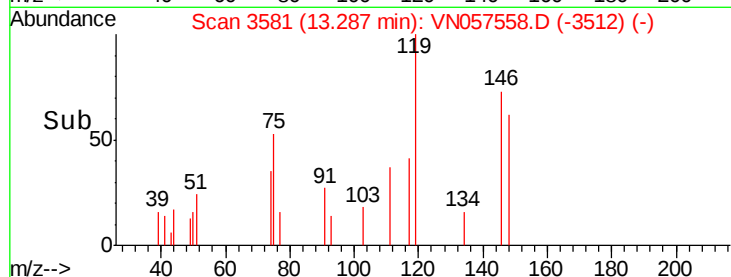
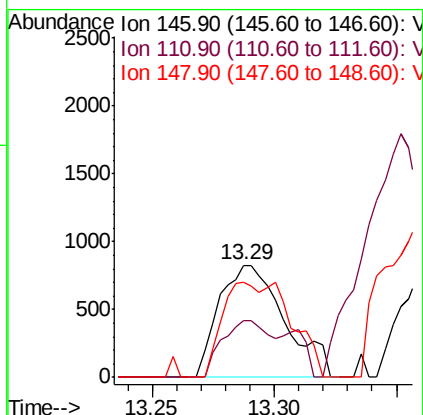
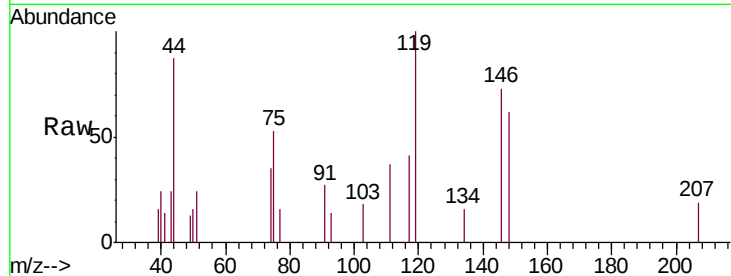
Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	146	Resp:	1534
Ion	Ratio	Lower	Upper
146	100		
111	37.0	21.9	65.5
148	49.2	31.1	93.2



#89

n-Butylbenzene

Concen: 0.292 ug/l

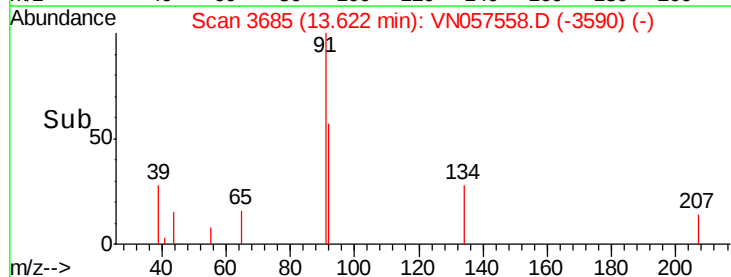
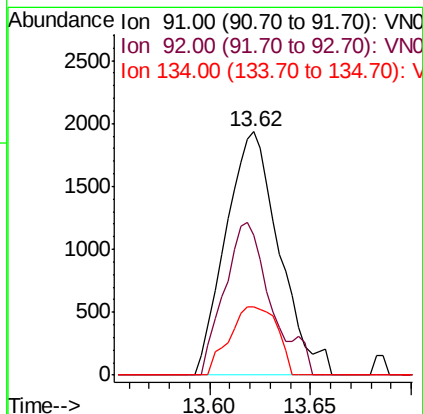
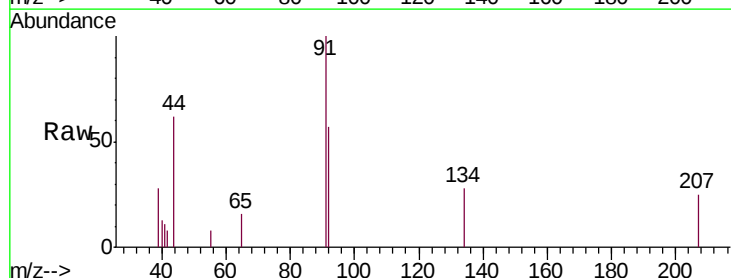
RT: 13.62 min Scan# 3685

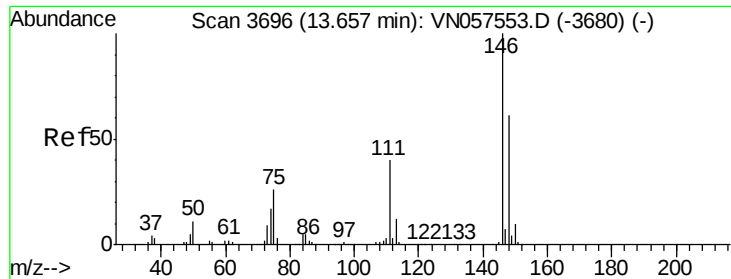
Delta R.T. 0.01 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Tgt Ion:	91	Resp:	3577
Ion	Ratio	Lower	Upper
91	100		
92	54.7	25.7	77.0
134	25.0	11.4	34.1





#91

1,2-Dichlorobenzene

Concen: 0.273 ug/l

RT: 13.66 min Scan# 3698

Delta R.T. 0.01 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

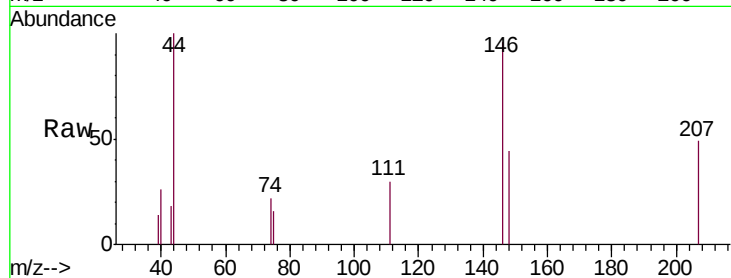
Tot Ion:146 Resp: 1863

Ion Ratio Lower Upper

146 100

111 25.0 23.1 69.2

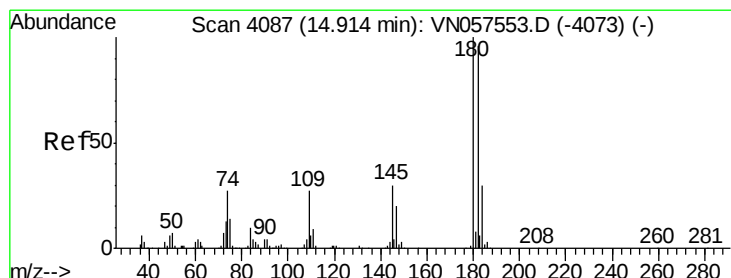
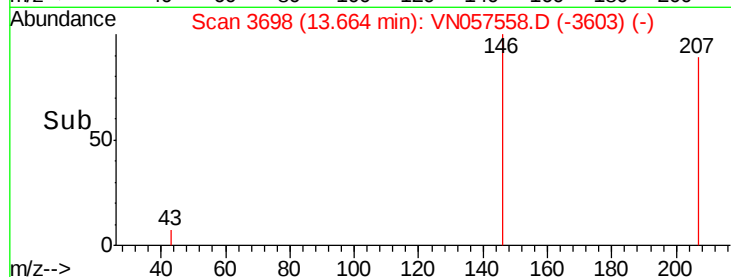
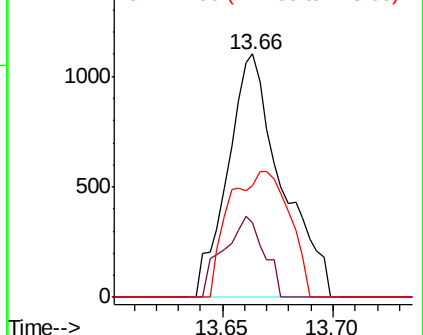
148 57.8 31.8 95.4



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 5.042 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

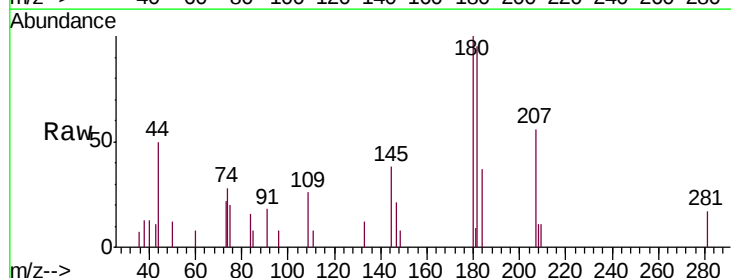
Tgt Ion:180 Resp: 3860

Ion Ratio Lower Upper

180 100

182 96.5 46.7 140.1

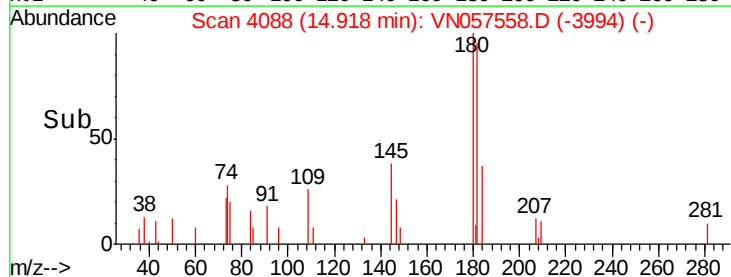
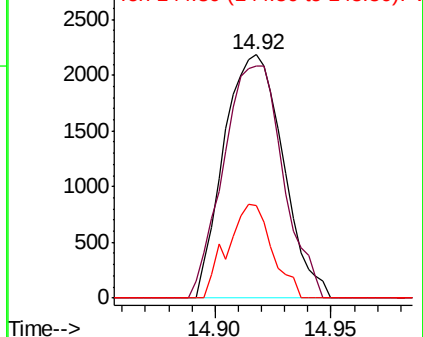
145 29.0 15.6 46.8

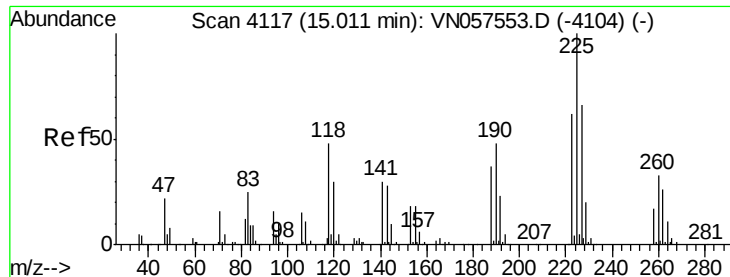


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: 0.481 ug/l

RT: 15.01 min Scan# 4118

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

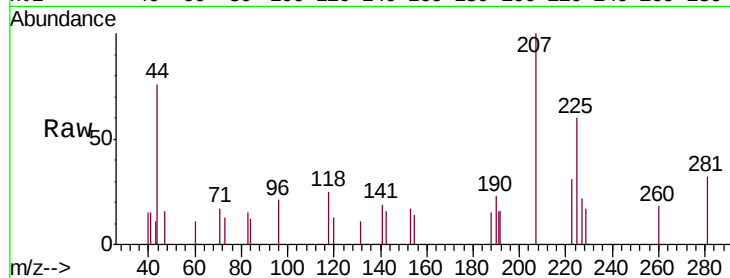
Tot Ion:225 Resp: 1084

Ion Ratio Lower Upper

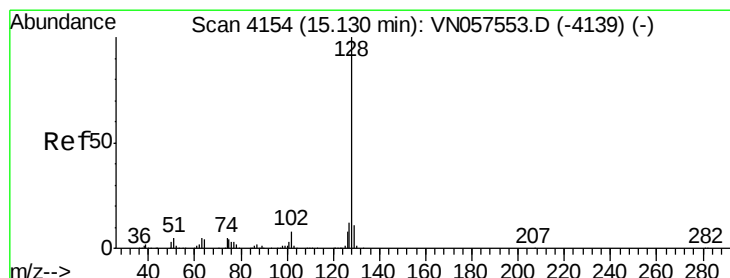
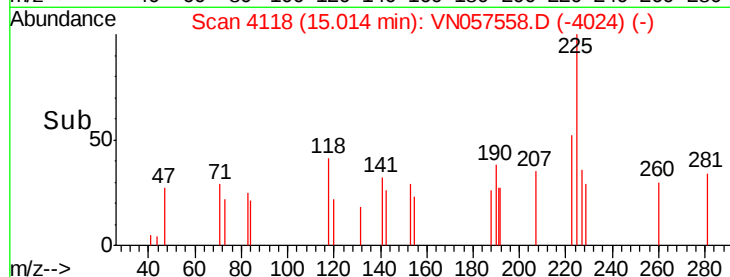
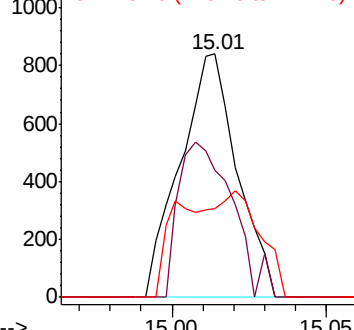
225 100

223 60.1 32.0 96.2

227 21.0 31.5 94.5#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.776 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN057558.D

Acq: 29 Aug 2019 19:11

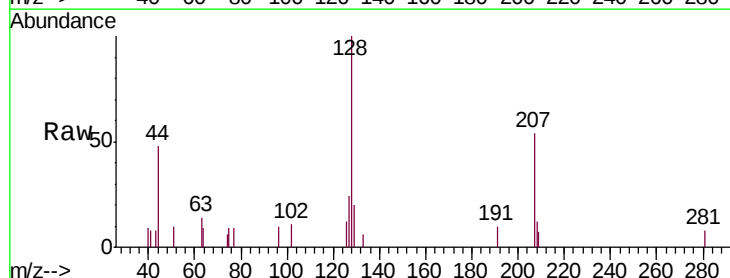
Tgt Ion:128 Resp: 5247

Ion Ratio Lower Upper

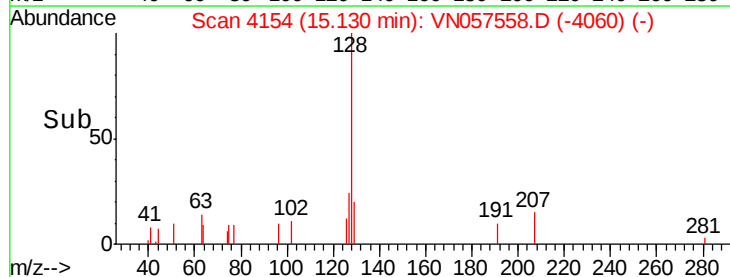
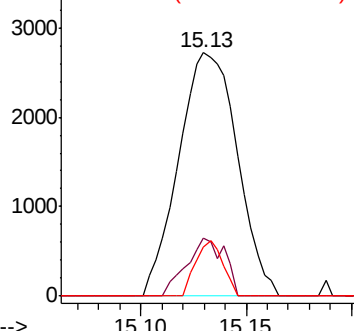
128 100

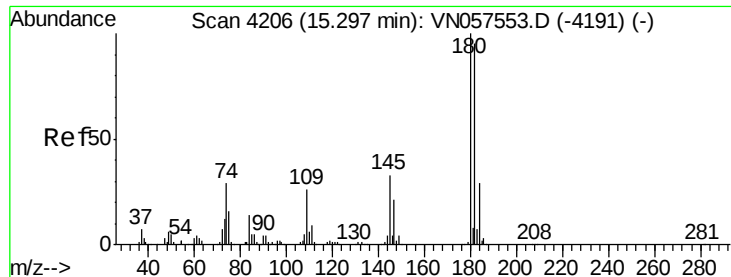
127 15.4 10.5 15.7

129 10.6 8.6 13.0



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





#96
 1,2,3-Trichlorobenzene
 Concen: 1.419 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN057558.D
 Acq: 29 Aug 2019 19:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	92.4	46.7	140.1
145	34.5	16.8	50.3

