

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100719\
 Data File : VN058572.D
 Acq On : 7 Oct 2019 17:30
 Operator : JC/SP
 Sample : K5197-09DL 5X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 08 14:06:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092719W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 30 08:07:38 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	461995	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	731293	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	632027	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	257334	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	310744	46.03	ug/l	0.00
Spiked Amount			Recovery	=	92.06%	
35) Dibromofluoromethane	7.57	113	219233	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	
50) Toluene-d8	10.08	98	881150	50.19	ug/l	0.00
Spiked Amount			Recovery	=	100.38%	
62) 4-Bromofluorobenzene	12.41	95	300492	47.33	ug/l	0.00
Spiked Amount			Recovery	=	94.66%	

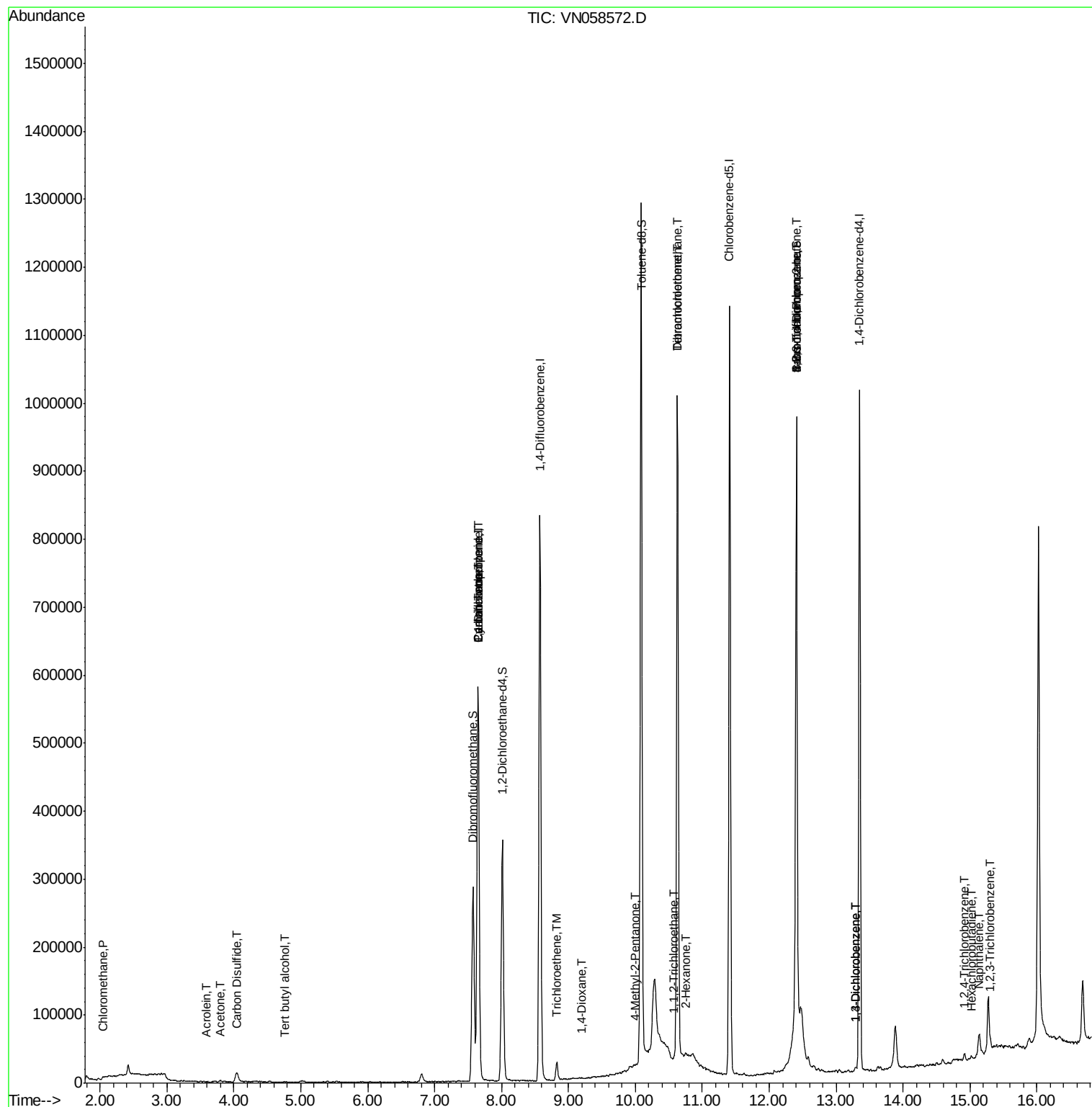
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2078	0.373	ug/l #	87
11) Tert butyl alcohol	4.76	59	158	0.211	ug/l #	71
13) Acrolein	3.59	56	89	0.373	ug/l #	13
16) Acetone	3.80	43	1307	0.568	ug/l	91
17) Carbon Disulfide	4.03	76	3137	0.273	ug/l #	93
31) Cyclohexane	7.65	56	10454	1.119	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	38700	5.534	ug/l #	51
38) Carbon Tetrachloride	7.65	117	46657	7.392	ug/l #	17
44) Trichloroethene	8.82	130	8857	1.785	ug/l	97
49) 1,4-Dioxane	9.19	88	69	1.017	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	1920	0.335	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	1233	0.268	ug/l #	13
59) 2-Hexanone	10.75	43	2400	0.576	ug/l	90
60) Dibromochloromethane	10.63	129	204327	42.752	ug/l #	11
64) Tetrachloroethene	10.63	164	219123	54.570	ug/l	98
71) Bromoform	12.40	173	1009	1.035	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	159068	33.843	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	159068	102.784	ug/l #	8
87) 1,3-Dichlorobenzene	13.29	146	1670	0.207	ug/l	97
88) 1,4-Dichlorobenzene	13.29	146	1670	0.208	ug/l	97
93) 1,2,4-Trichlorobenzene	14.92	180	3433	0.800	ug/l	93
94) Hexachlorobutadiene	15.02	225	712	0.323	ug/l	91
95) Naphthalene	15.13	128	14663	1.138	ug/l	98
96) 1,2,3-Trichlorobenzene	15.31	180	4027	0.911	ug/l	91

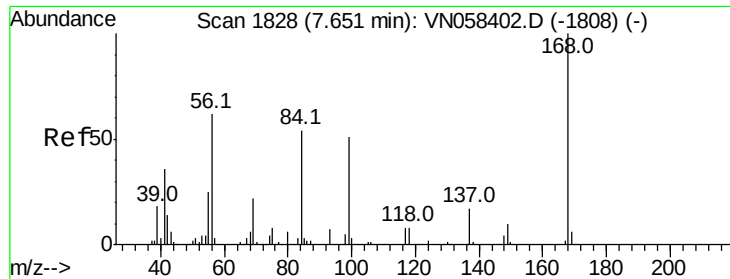
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Sep 30 08:07:38 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

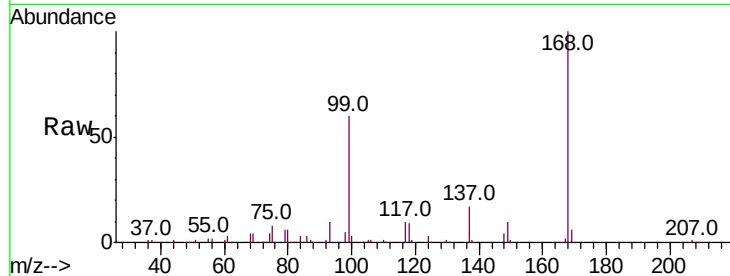
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 461995

Ion Ratio Lower Upper

168 100

99 60.5 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

100000

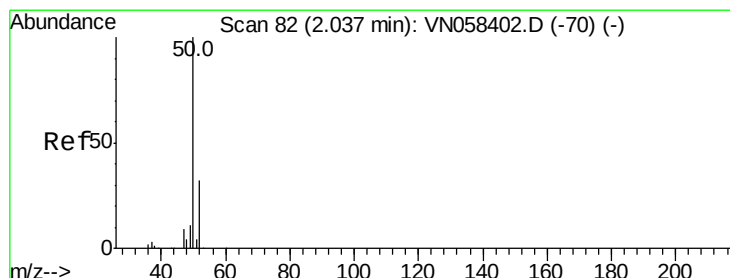
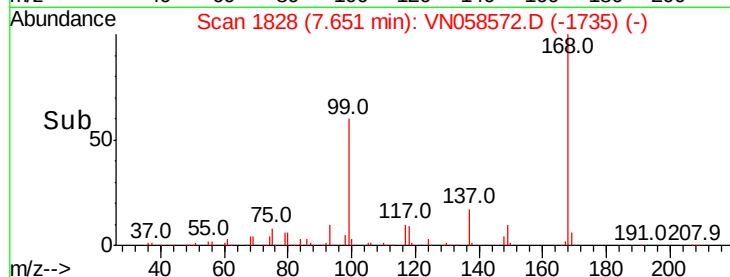
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: 0.373 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058572.D

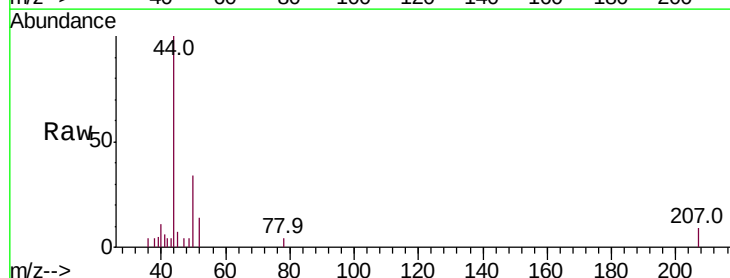
Acq: 7 Oct 2019 17:30

Tgt Ion: 50 Resp: 2078

Ion Ratio Lower Upper

50 100

52 39.9 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

1500

1000

500

0

2.00

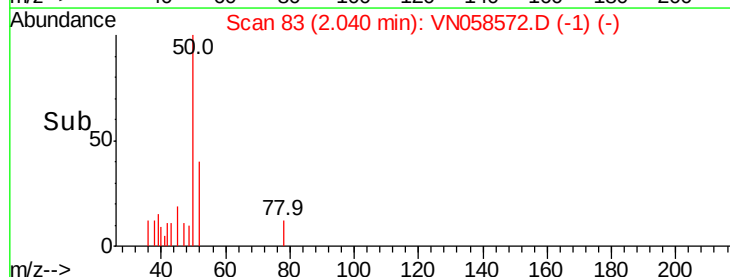
2.02

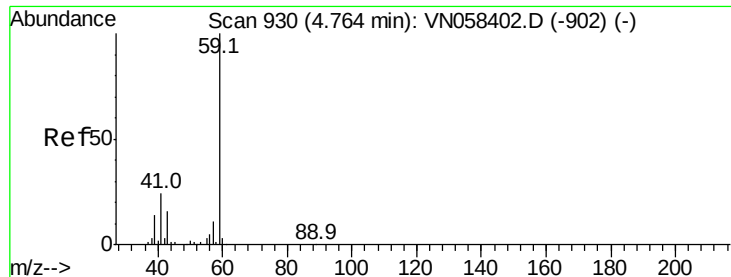
2.04

2.06

2.08

Time-->

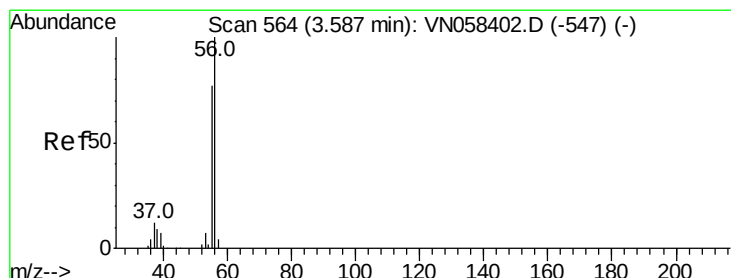
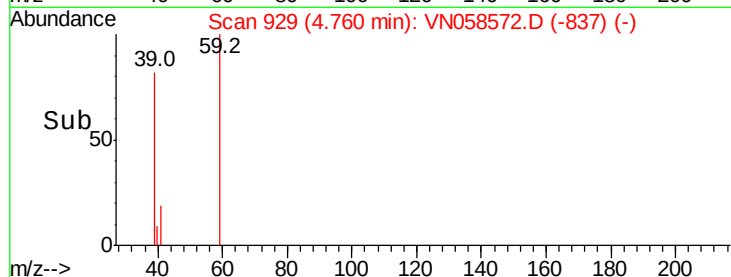
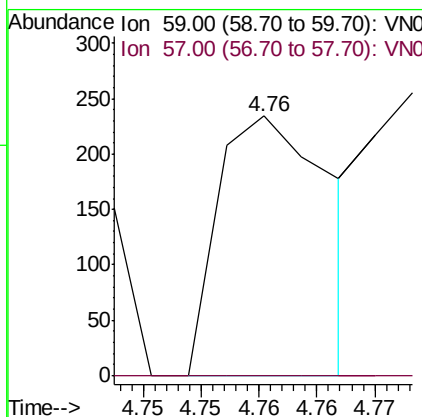
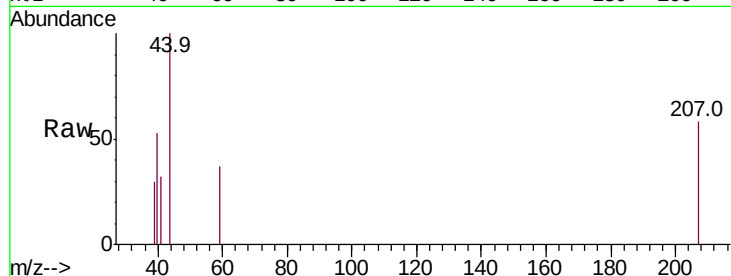




#11
Tert butyl alcohol
Concen: 0.211 ug/l
RT: 4.76 min Scan# 929
Delta R.T. -0.00 min
Lab File: VN058572.D
Acq: 7 Oct 2019 17:30

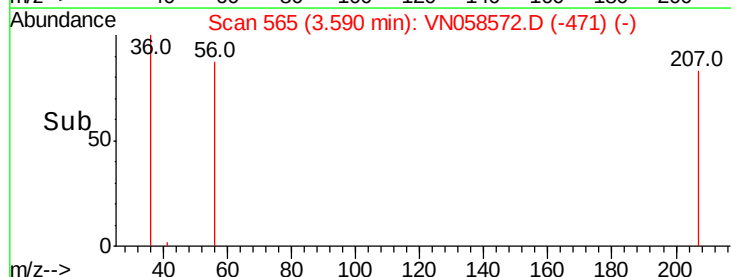
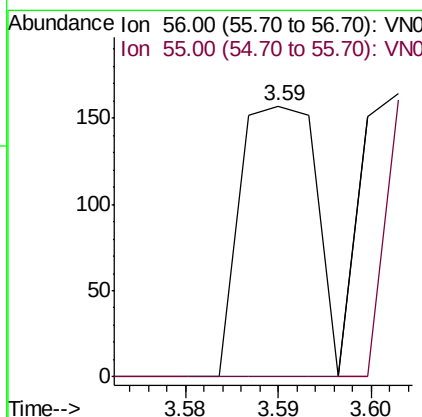
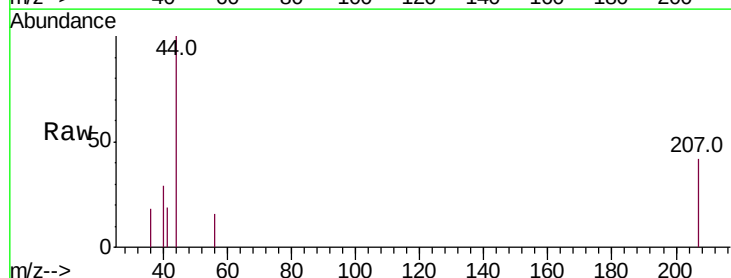
Instrument :
MSVOA_N
ClientSampled :

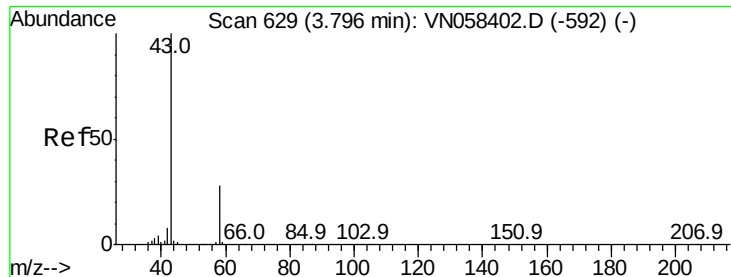
Tot Ion: 59 Resp: 158
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#13
Acrolein
Concen: 0.373 ug/l
RT: 3.59 min Scan# 565
Delta R.T. 0.00 min
Lab File: VN058572.D
Acq: 7 Oct 2019 17:30

Tgt Ion: 56 Resp: 89
Ion Ratio Lower Upper
56 100
55 0.0 58.3 87.5#





#16

Acetone

Concen: 0.568 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

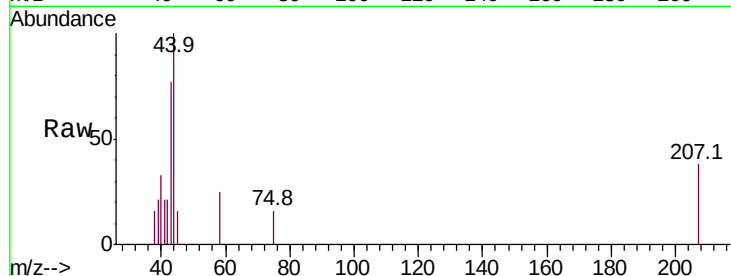
ClientSampled :

Tot Ion: 43 Resp: 1307

Ion Ratio Lower Upper

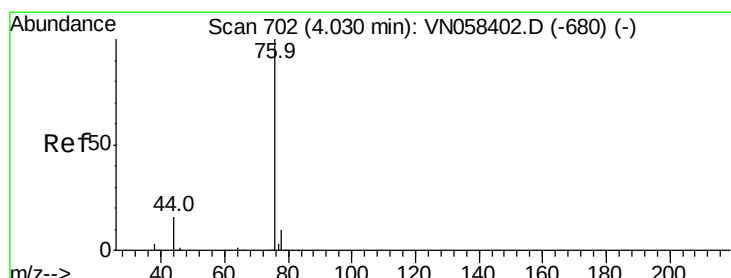
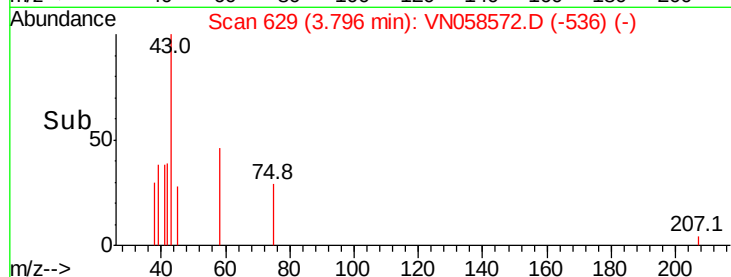
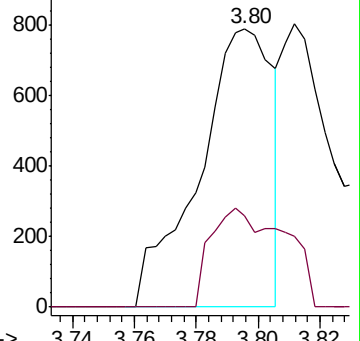
43 100

58 33.0 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.273 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN058572.D

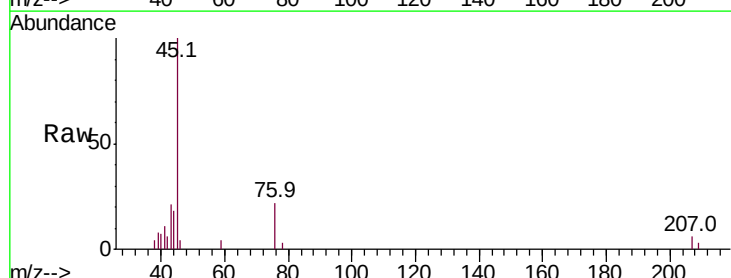
Acq: 7 Oct 2019 17:30

Tgt Ion: 76 Resp: 3137

Ion Ratio Lower Upper

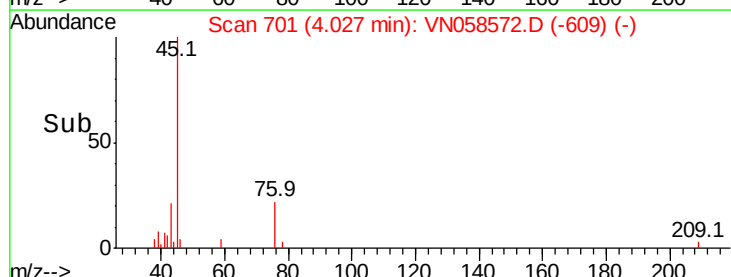
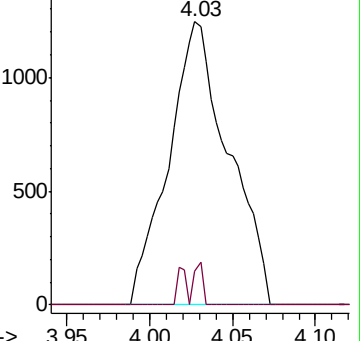
76 100

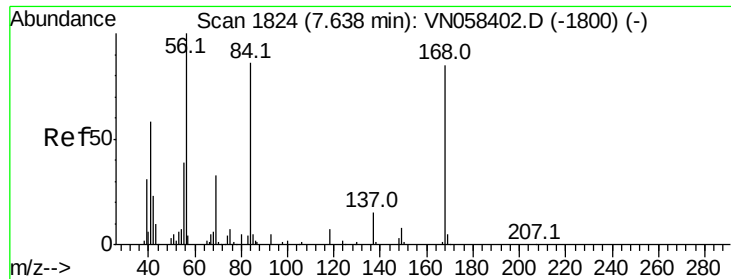
78 12.1 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

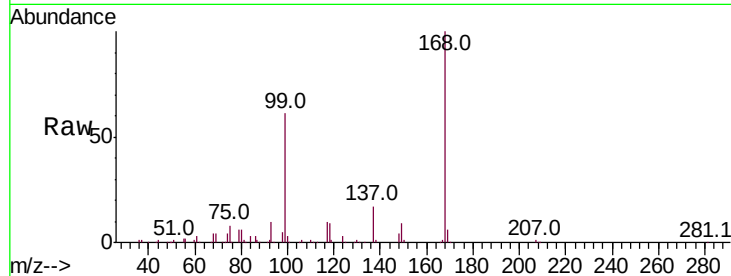




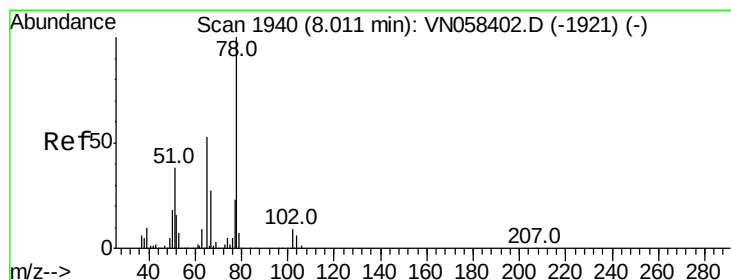
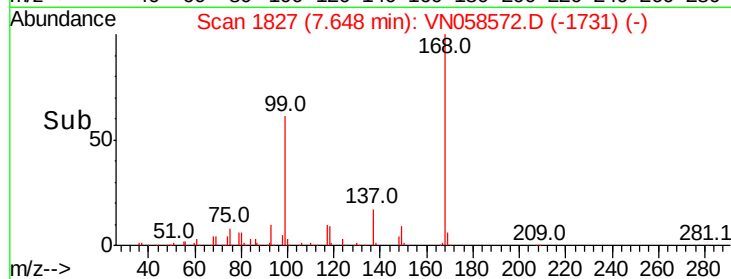
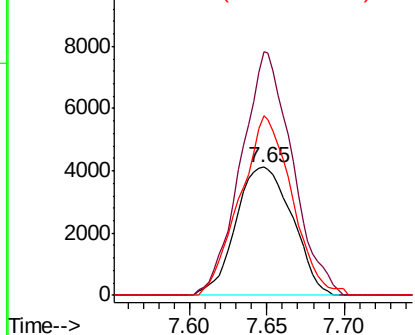
#31
Cyclohexane
Concen: 1.119 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058572.D
Acq: 7 Oct 2019 17:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 10454
Ion Ratio Lower Upper
56 100
69 190.4 26.2 39.4#
84 140.4 67.6 101.4#

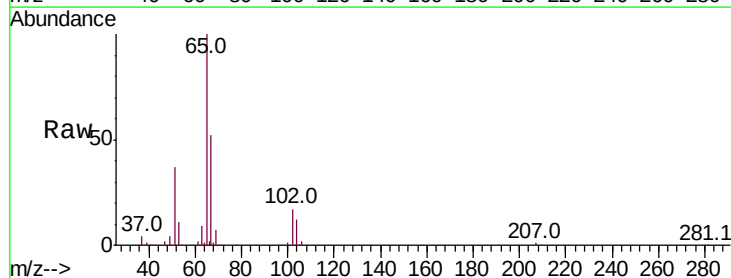


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

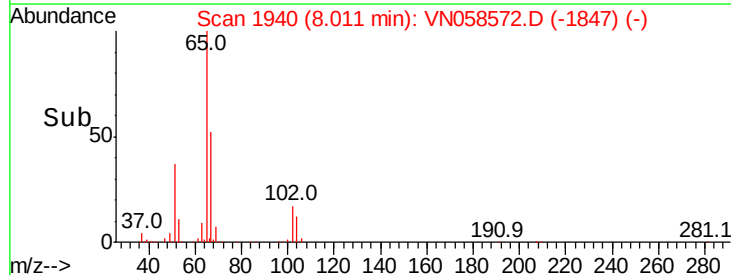
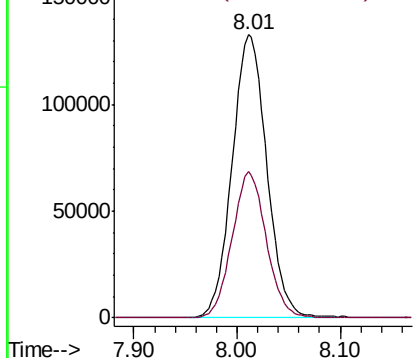


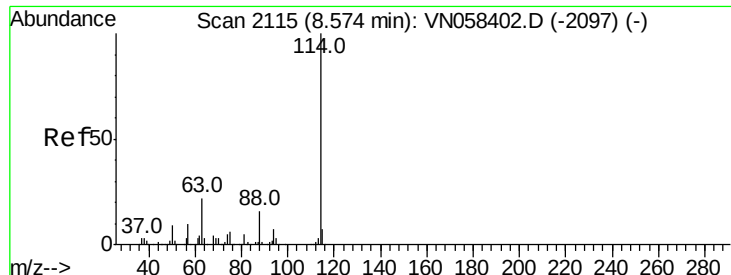
#33
1,2-Dichloroethane-d4
Concen: 46.027 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058572.D
Acq: 7 Oct 2019 17:30

Tgt Ion: 65 Resp: 310744
Ion Ratio Lower Upper
65 100
67 50.9 0.0 102.4



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

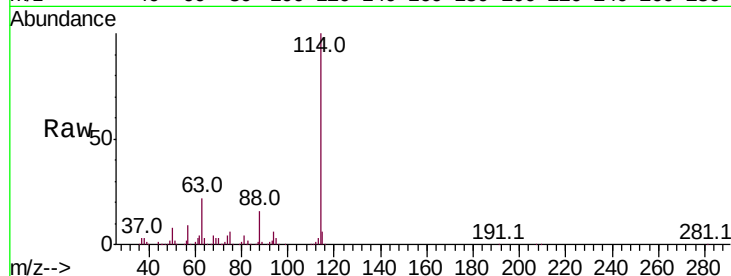




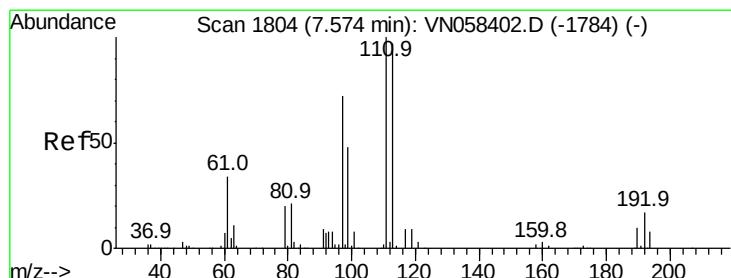
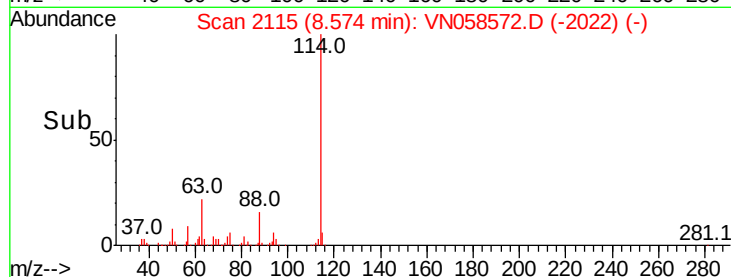
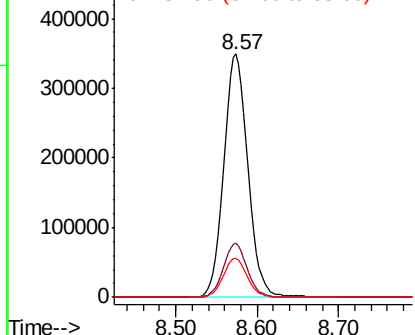
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 731293
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 45.0
 88 16.2 0.0 32.2

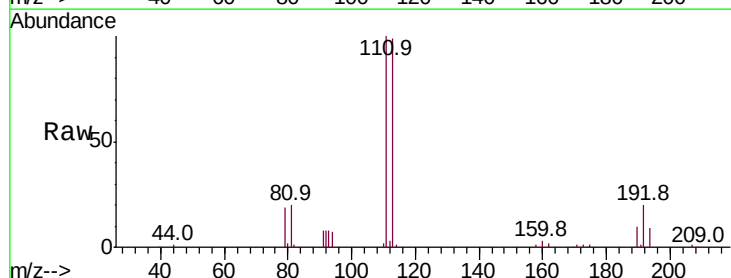


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

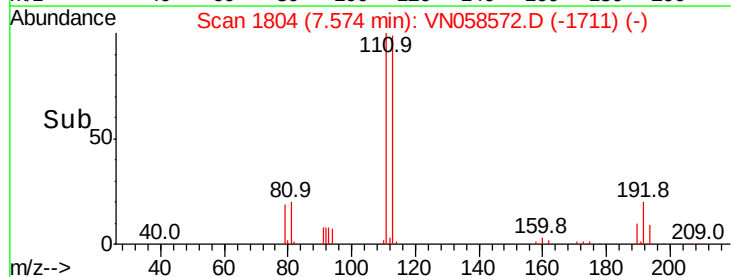
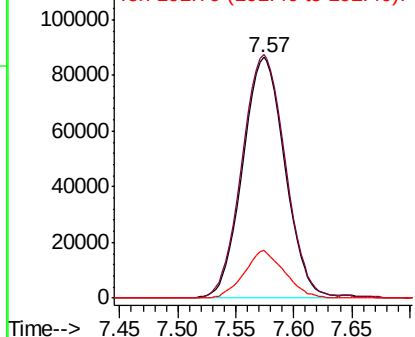


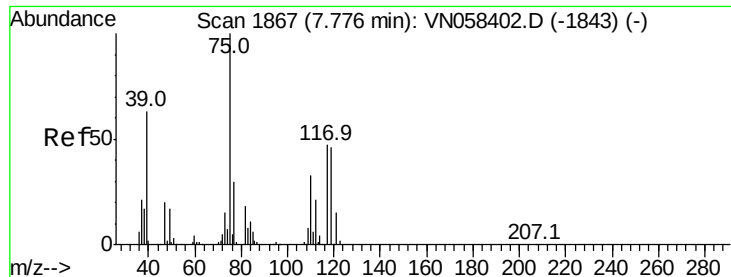
#35
 Dibromofluoromethane
 Concen: 48.914 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

Tgt Ion:113 Resp: 219233
 Ion Ratio Lower Upper
 113 100
 111 104.5 83.4 125.2
 192 19.0 14.9 22.3



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

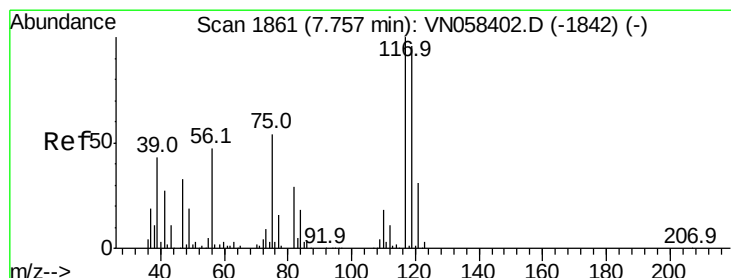
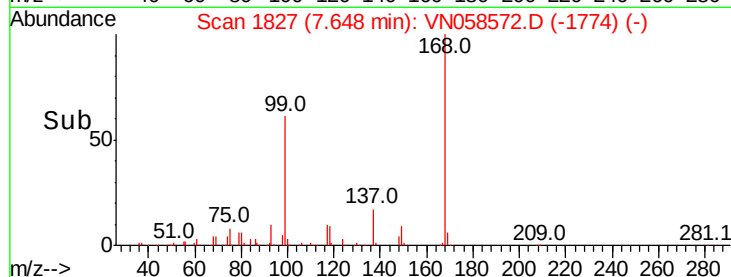
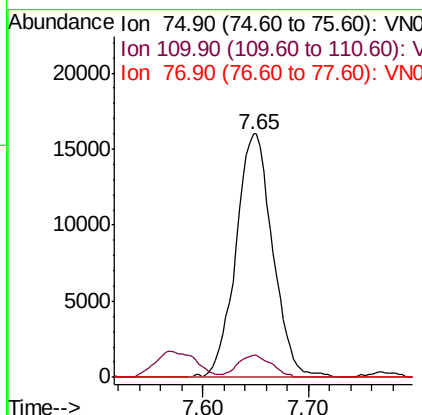
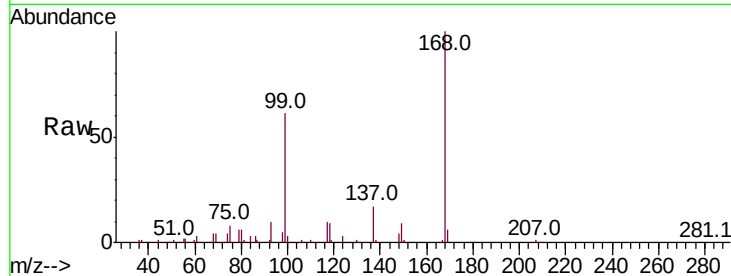




#36
 1,1-Dichloropropene
 Concen: 5.534 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

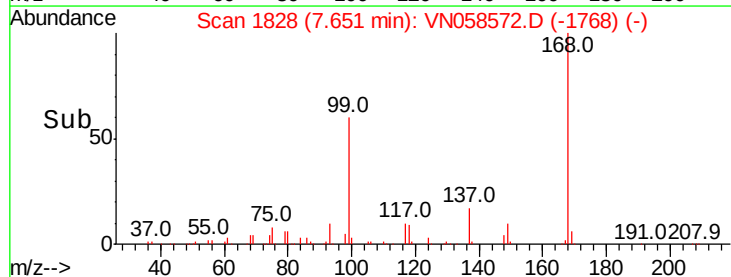
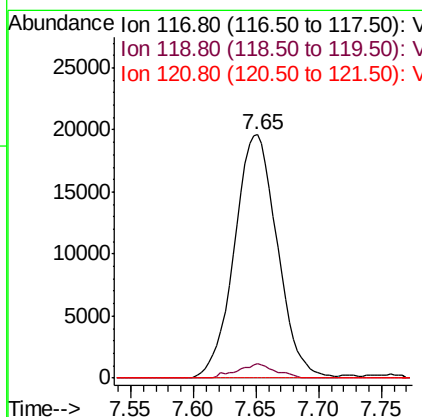
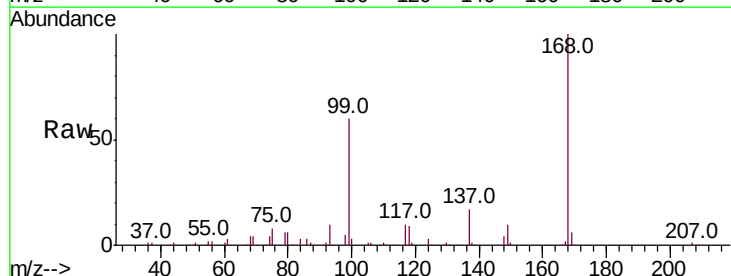
Instrument :
 MSVOA_N
 ClientSampleId :

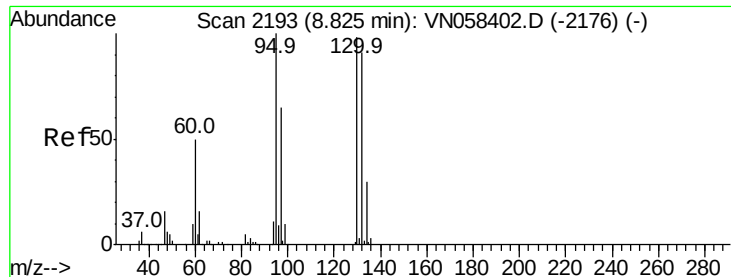
Tot Ion	75	Resp	38700
Ion Ratio	Lower	Upper	
75	100		
110	8.4	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.392 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

Tgt Ion	117	Resp	46657
Ion Ratio	Lower	Upper	
117	100		
119	5.8	76.6	115.0#
121	0.0	24.7	37.1#





#44

Trichloroethene

Concen: 1.785 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. -0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

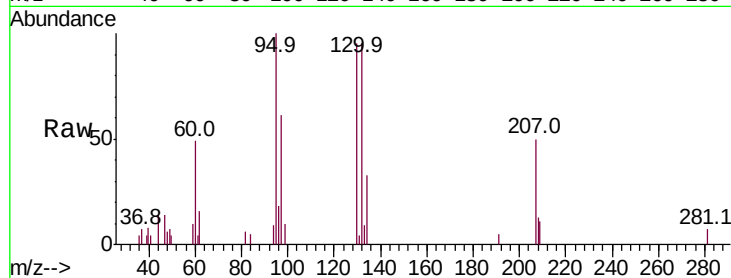
ClientSampled :

Tot Ion:130 Resp: 8857

Ion Ratio Lower Upper

130 100

95 104.8 0.0 204.2

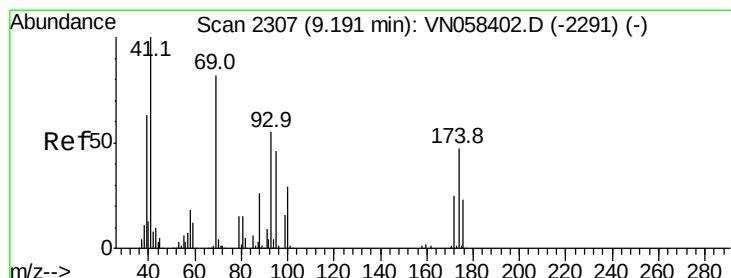
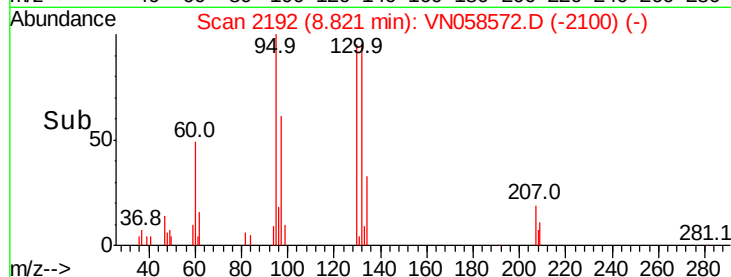


Abundance Ion 129.80 (129.50 to 130.50): VN058402.D (-2176) (-)

Ion 94.90 (94.60 to 95.60): VN058402.D (-2176) (-)

8.82

Time-->



#49

1,4-Dioxane

Concen: 1.017 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

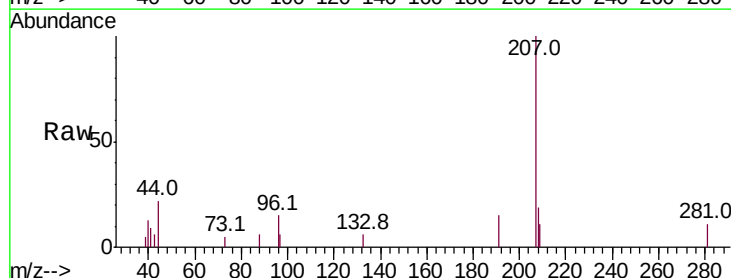
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 142.0 31.1 46.7#

58 0.0 58.1 87.1#



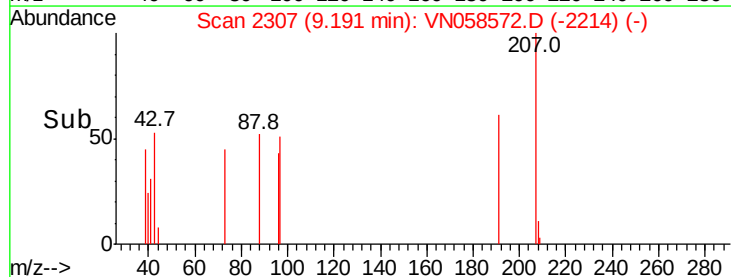
Abundance Ion 88.00 (87.70 to 88.70): VN058402.D (-2291) (-)

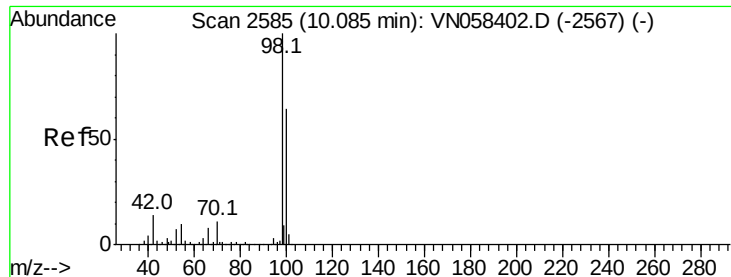
Ion 43.00 (42.70 to 43.70): VN058402.D (-2291) (-)

Ion 58.00 (57.70 to 58.70): VN058402.D (-2291) (-)

9.19

Time-->





#50

Toluene-d8

Concen: 50.185 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

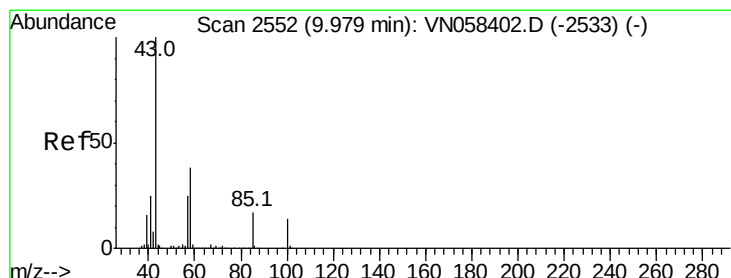
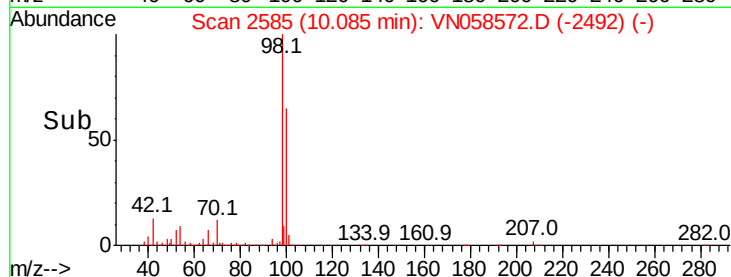
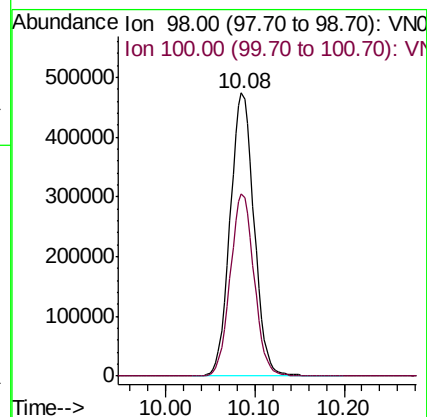
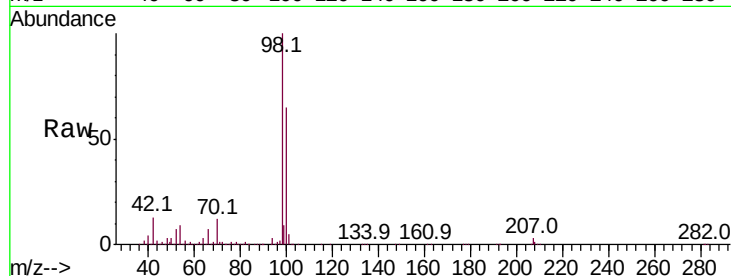
ClientSampleId :

Tot Ion: 98 Resp: 881150

Ion Ratio Lower Upper

98 100

100 64.2 51.0 76.6



#51

4-Methyl-2-Pentanone

Concen: 0.335 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058572.D

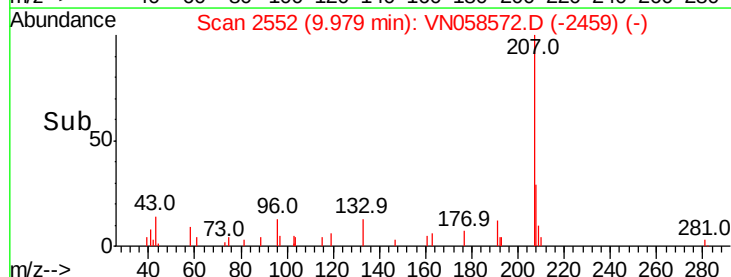
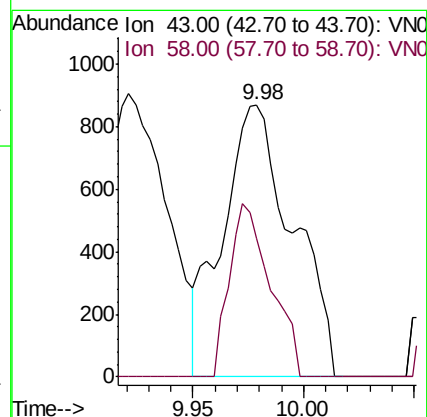
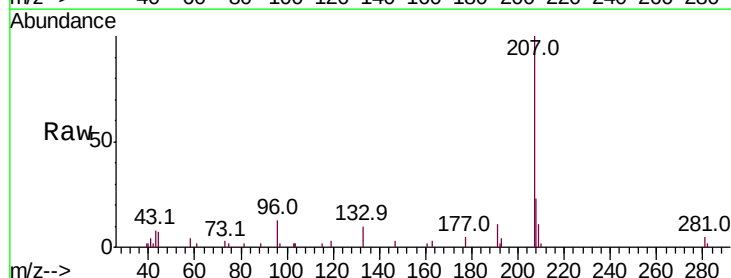
Acq: 7 Oct 2019 17:30

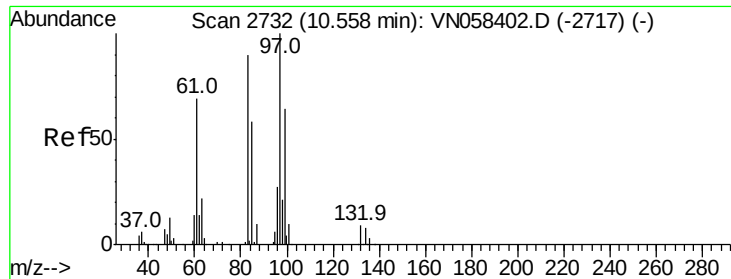
Tgt Ion: 43 Resp: 1920

Ion Ratio Lower Upper

43 100

58 37.2 30.2 45.2





#55

1,1,2-Trichloroethane

Concen: 0.268 ug/l

RT: 10.56 min Scan# 2732

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 97 Resp: 1233

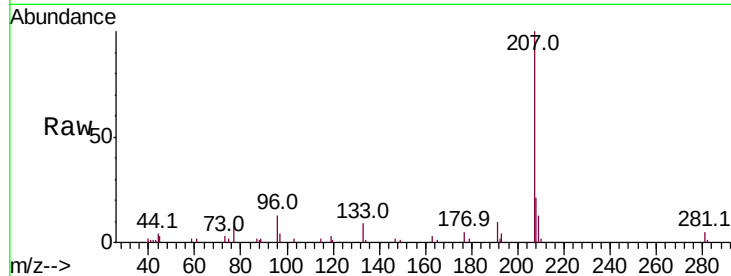
Ion Ratio Lower Upper

97 100

83 0.0 71.8 107.6#

85 0.0 46.6 69.8#

99 0.0 51.5 77.3#

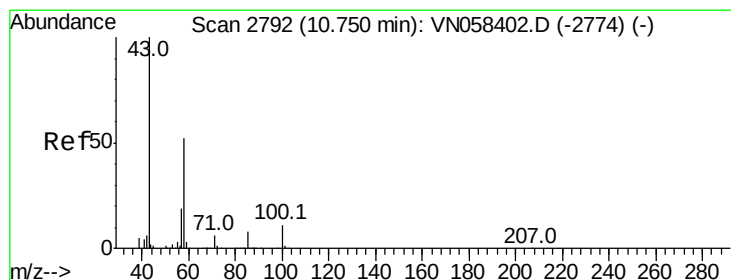
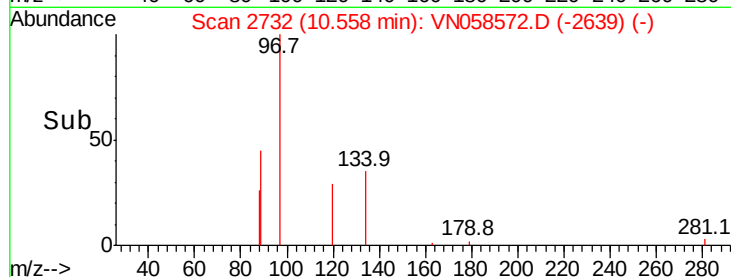
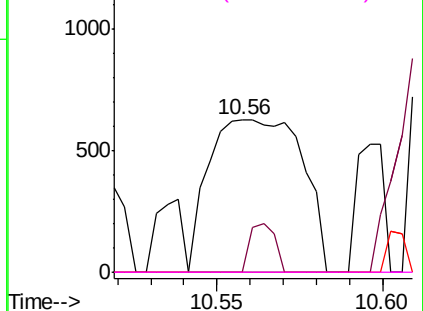


Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#59

2-Hexanone

Concen: 0.576 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.00 min

Lab File: VN058572.D

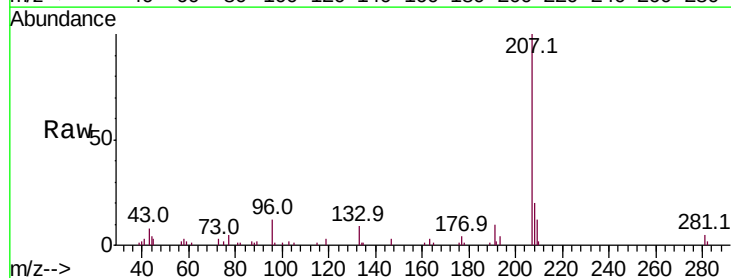
Acq: 7 Oct 2019 17:30

Tgt Ion: 43 Resp: 2400

Ion Ratio Lower Upper

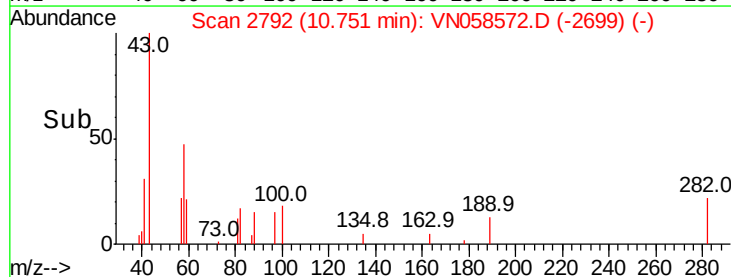
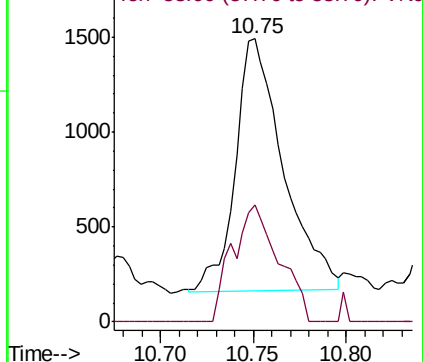
43 100

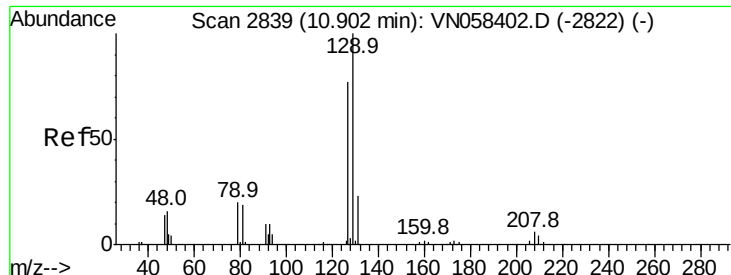
58 44.5 25.8 77.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#60

Dibromochloromethane

Concen: 42.752 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

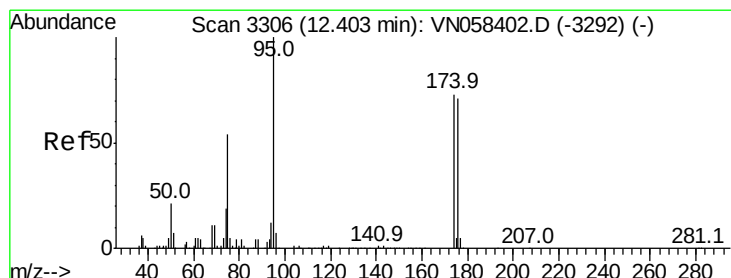
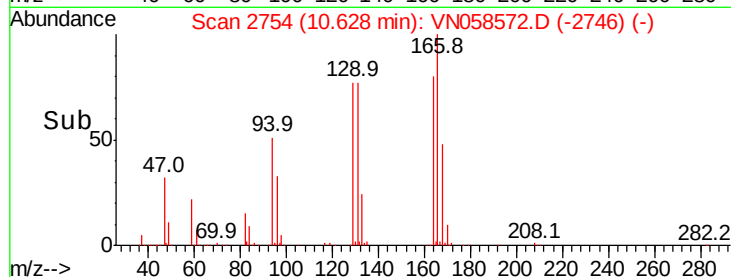
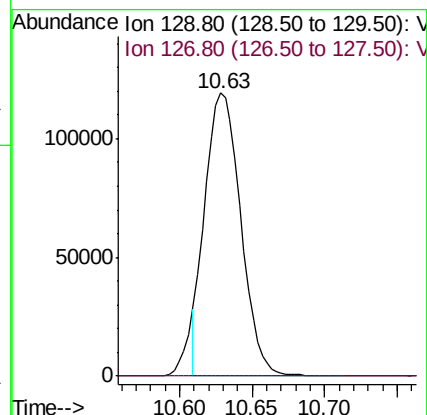
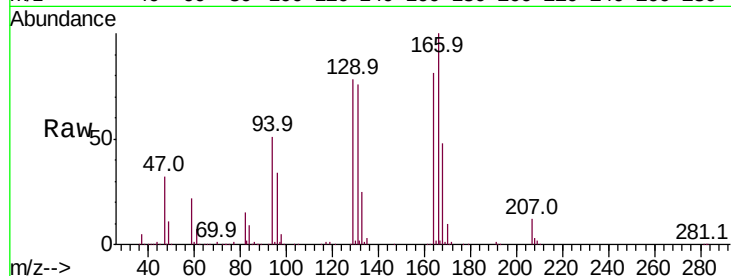
ClientSampleId :

Tot Ion:129 Resp: 204327

Ion Ratio Lower Upper

129 100

127 0.0 38.3 114.8#



#62

4-Bromofluorobenzene

Concen: 47.332 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

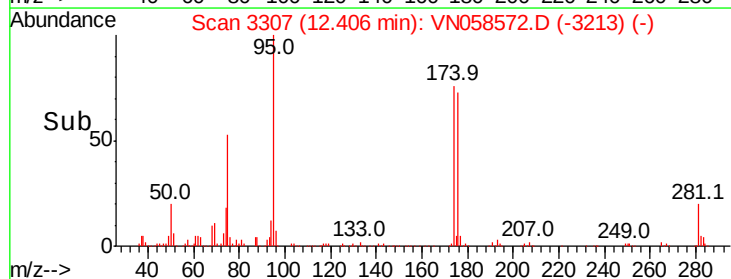
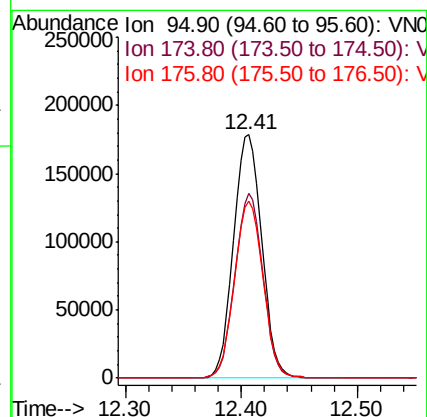
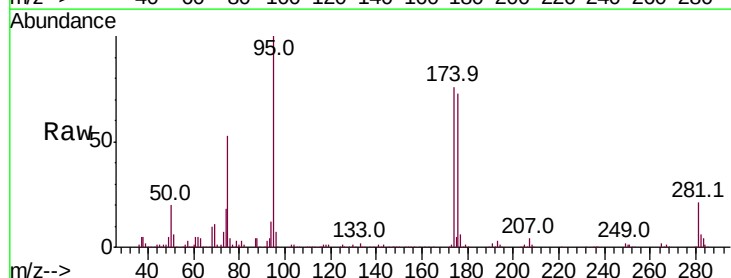
Tgt Ion: 95 Resp: 300492

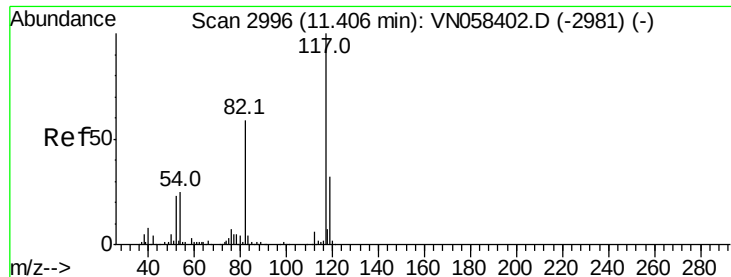
Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.6

176 72.6 0.0 146.2

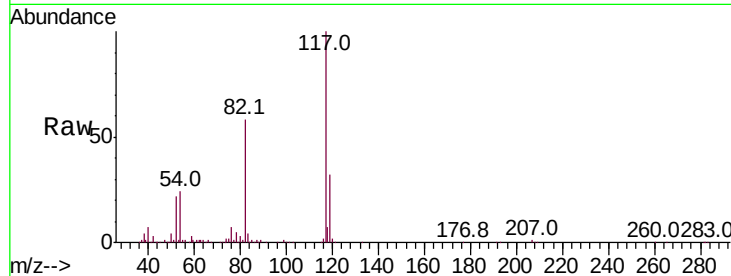




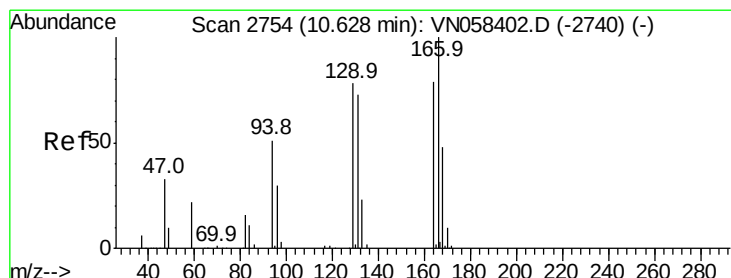
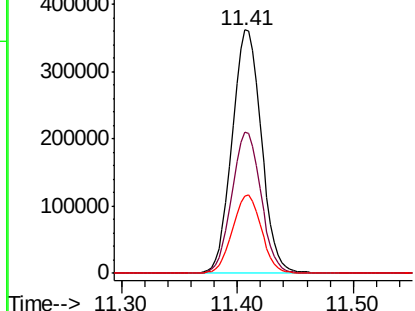
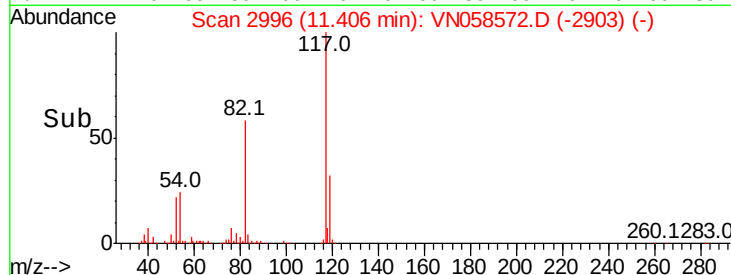
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058572.D
Acq: 7 Oct 2019 17:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 632027
Ion Ratio Lower Upper
117 100
82 58.0 47.4 71.0
119 31.9 25.5 38.3

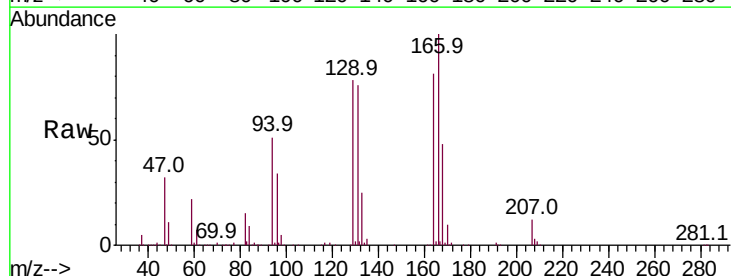


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

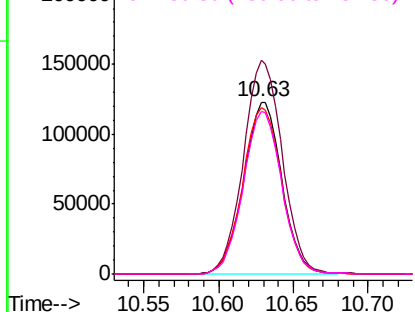
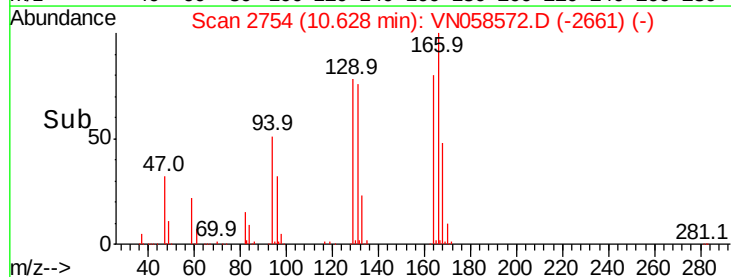


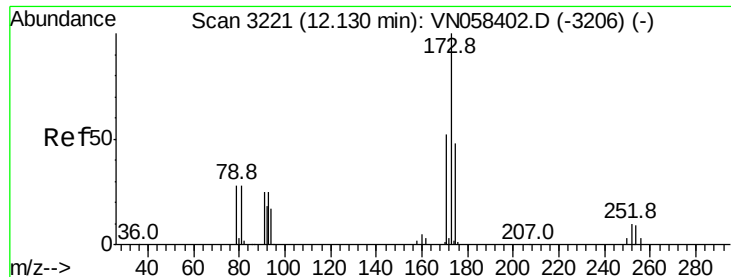
#64
Tetrachloroethene
Concen: 54.570 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058572.D
Acq: 7 Oct 2019 17:30

Tgt Ion:164 Resp: 219123
Ion Ratio Lower Upper
164 100
166 124.2 101.1 151.7
129 96.9 79.2 118.8
131 94.8 74.1 111.1



Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V





#71

Bromoform

Concen: 1.035 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

ClientSampleId :

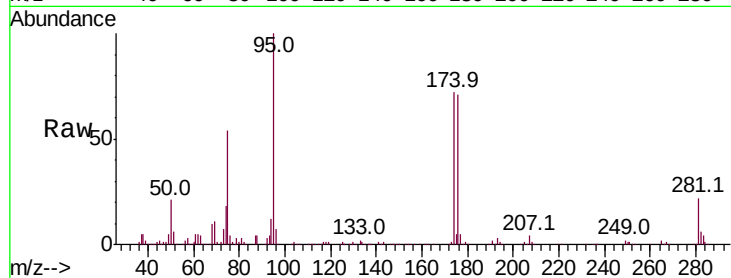
Tot Ion:173 Resp: 1009

Ion Ratio Lower Upper

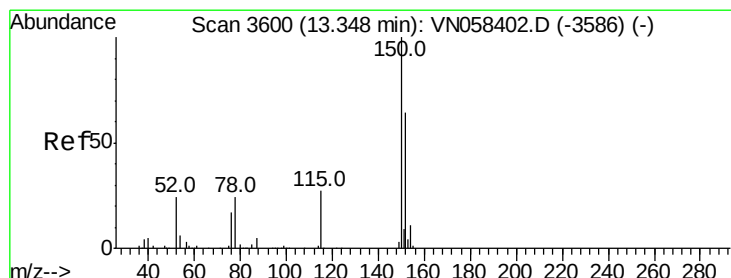
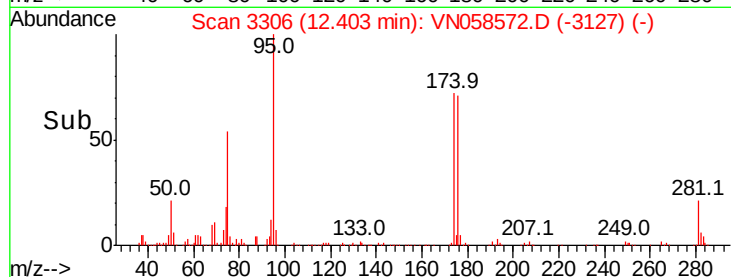
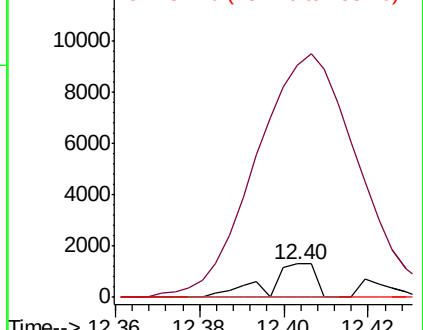
173 100

175 1350.1 24.3 73.0#

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: VN058572.D

Acq: 7 Oct 2019 17:30

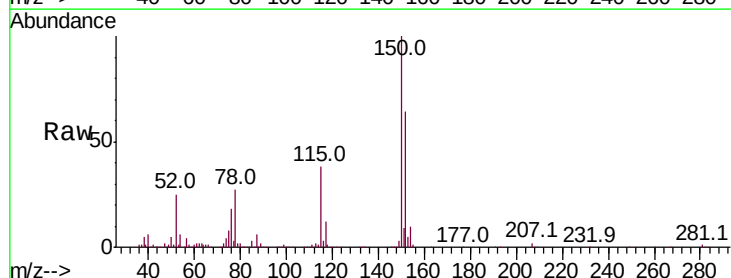
Tgt Ion:152 Resp: 257334

Ion Ratio Lower Upper

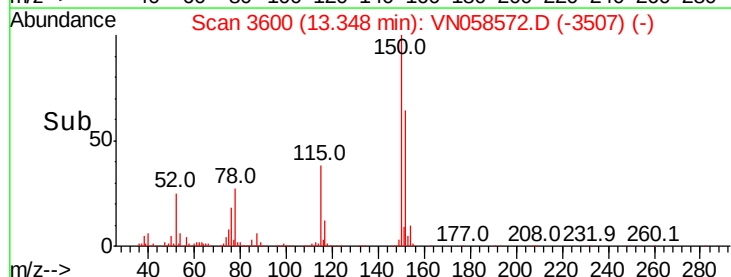
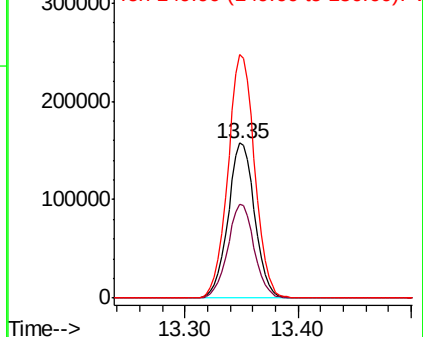
152 100

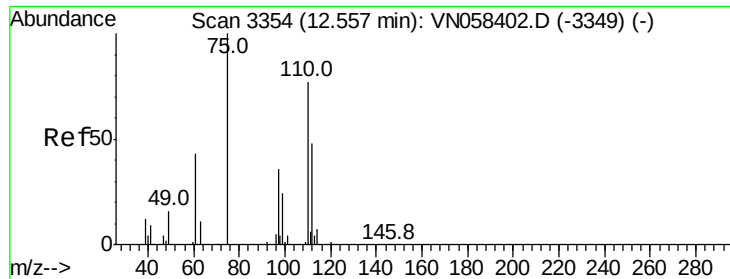
115 59.9 30.0 90.0

150 157.3 0.0 348.2



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

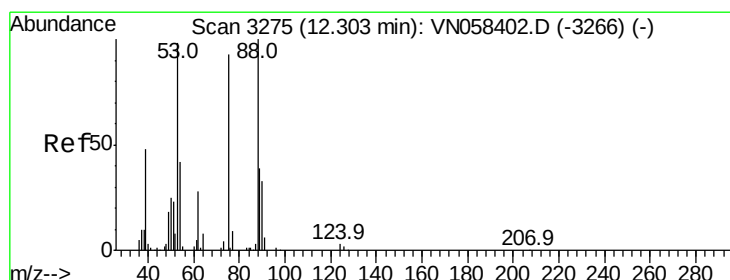
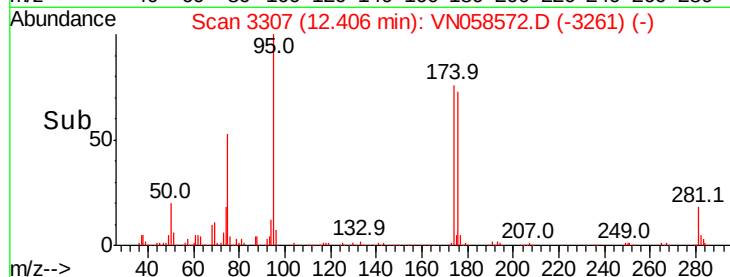
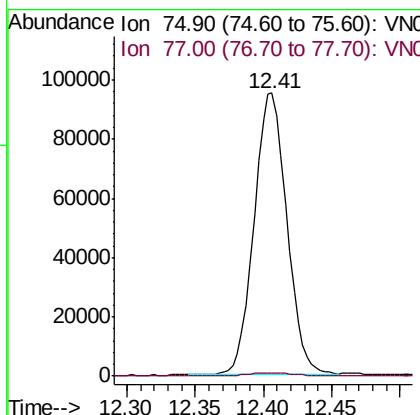
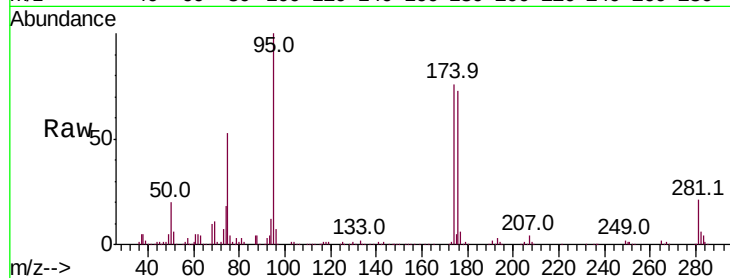




#76
 1,2,3-Trichloropropane
 Concen: 33.843 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. -0.15 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

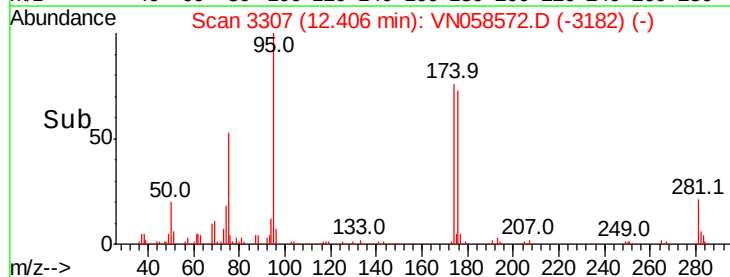
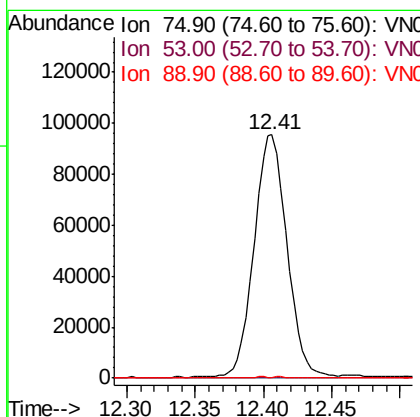
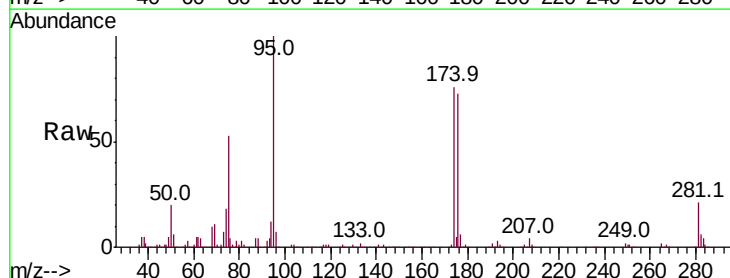
Instrument :
 MSVOA_N
 ClientSampled :

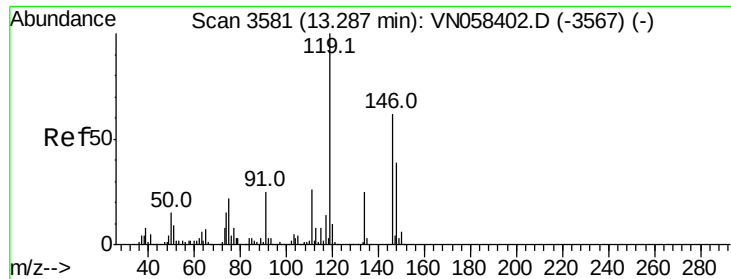
Tot Ion: 75 Resp: 159068
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 102.784 ug/l
 RT: 12.41 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

Tgt Ion: 75 Resp: 159068
 Ion Ratio Lower Upper
 75 100
 53 0.0 85.4 128.0#
 89 0.4 35.0 52.4#





#87

1,3-Dichlorobenzene

Concen: 0.207 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

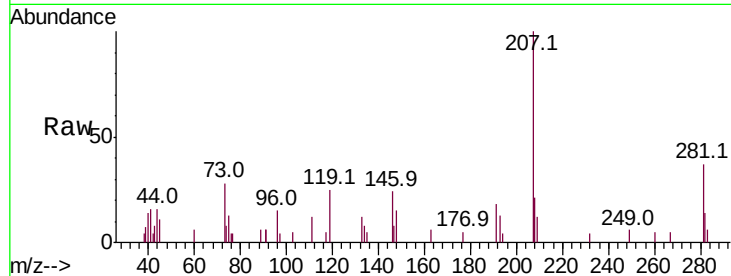
Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:146 Resp: 1670

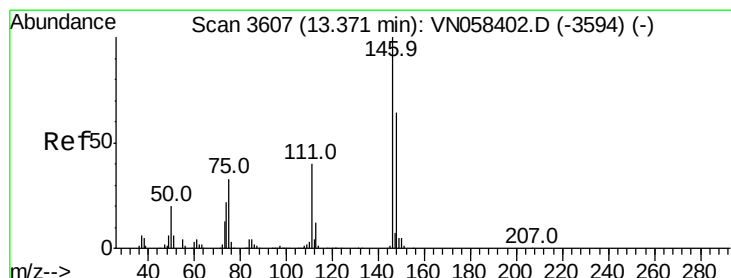
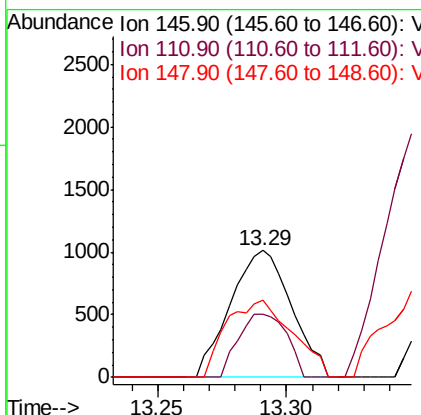
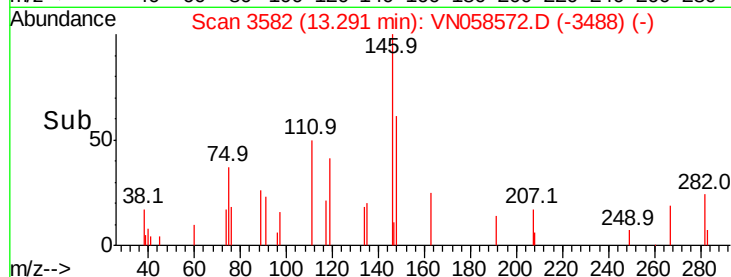
Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.8	62.4
148	65.4	31.4	94.3



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



#88

1,4-Dichlorobenzene

Concen: 0.208 ug/l

RT: 13.29 min Scan# 3582

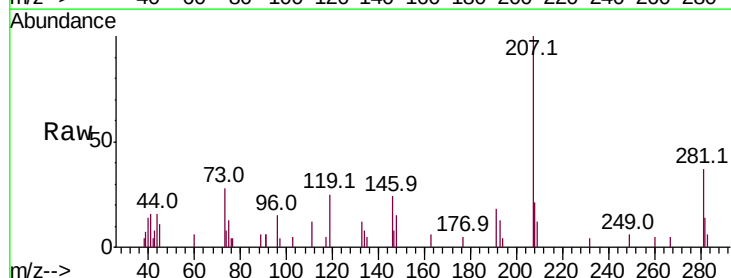
Delta R.T. -0.08 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Tgt Ion:146 Resp: 1670

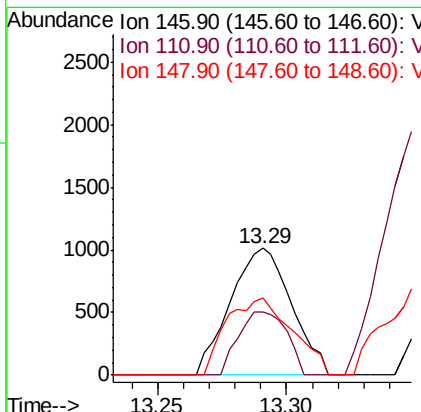
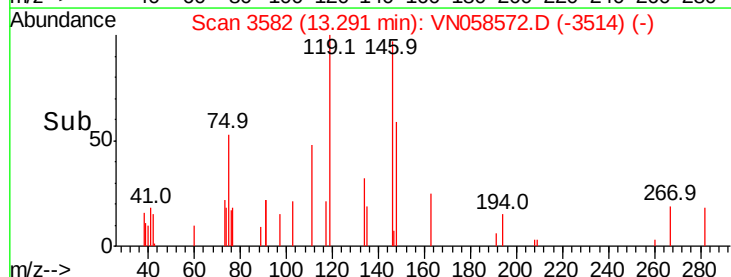
Ion	Ratio	Lower	Upper
146	100		
111	39.4	20.5	61.6
148	65.4	31.5	94.5

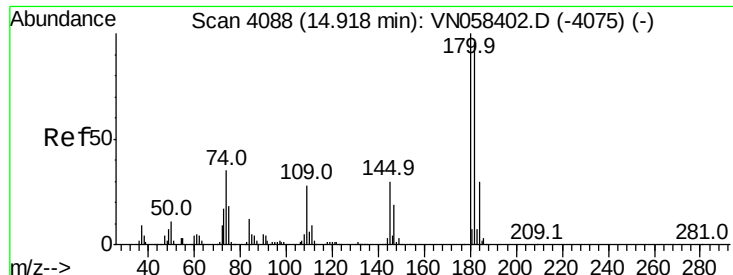


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

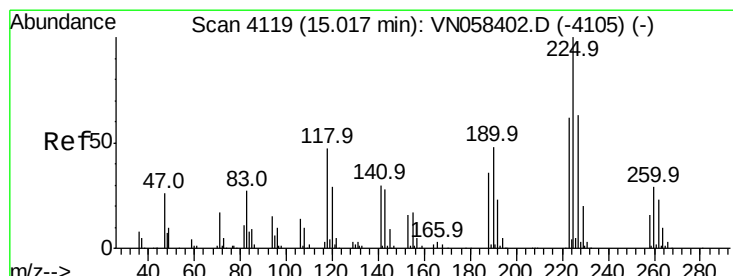
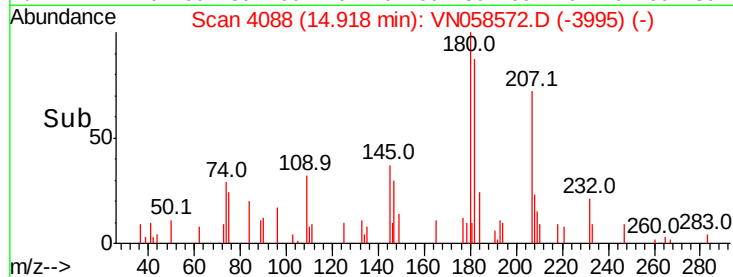
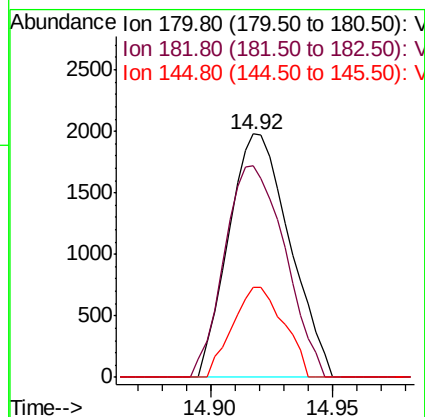
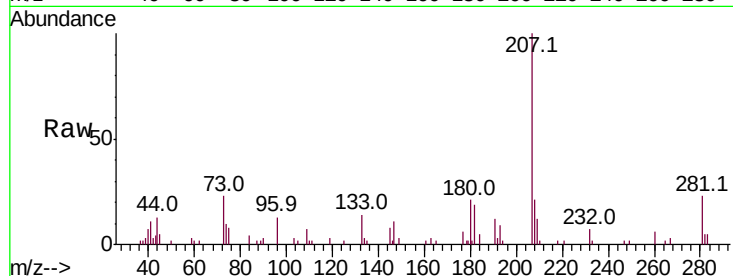




#93
 1,2,4-Trichlorobenzene
 Concen: 0.800 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

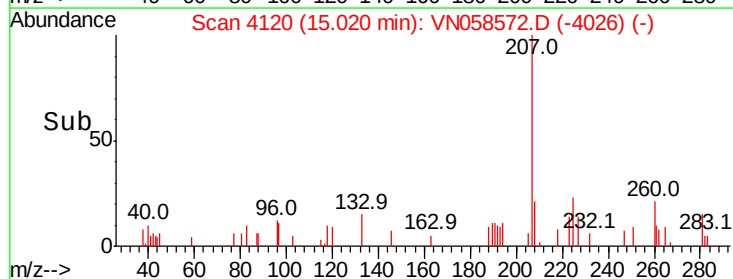
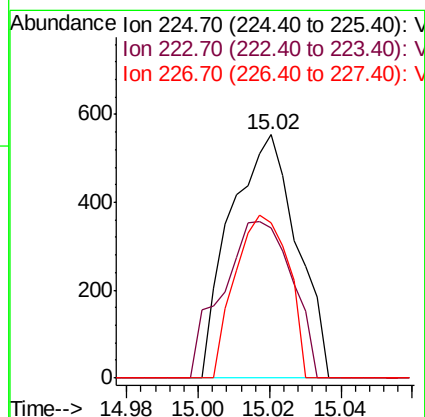
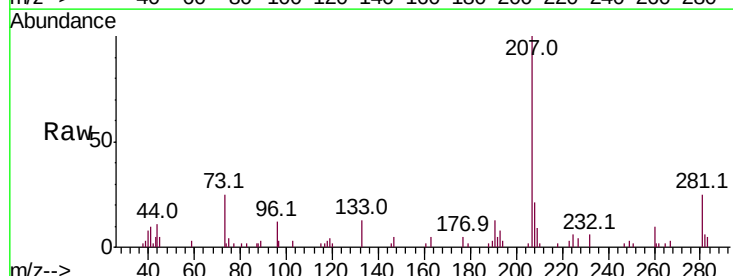
Instrument :
 MSVOA_N
 ClientSampled :

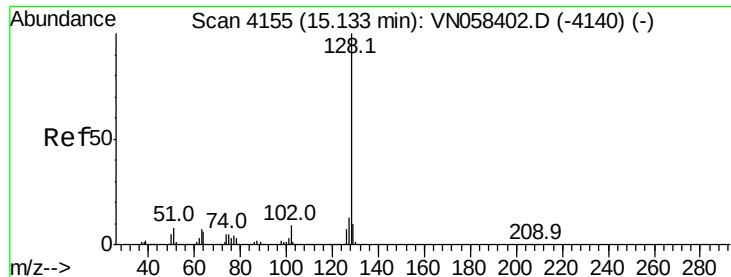
Tot Ion:180 Resp: 3433
 Ion Ratio Lower Upper
 180 100
 182 86.3 47.4 142.3
 145 31.2 15.3 45.9



#94
 Hexachlorobutadiene
 Concen: 0.323 ug/l
 RT: 15.02 min Scan# 4120
 Delta R.T. 0.00 min
 Lab File: VN058572.D
 Acq: 7 Oct 2019 17:30

Tgt Ion:225 Resp: 712
 Ion Ratio Lower Upper
 225 100
 223 67.6 31.1 93.5
 227 53.8 31.4 94.2





#95

Naphthalene

Concen: 1.138 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

Instrument :

MSVOA_N

ClientSampled :

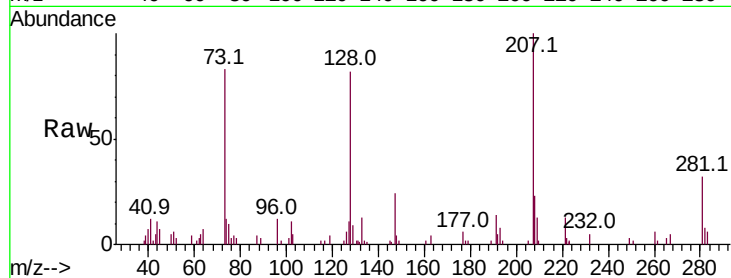
Tot Ion:128 Resp: 14663

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.4

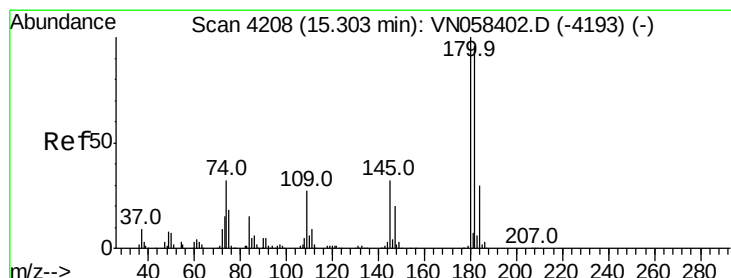
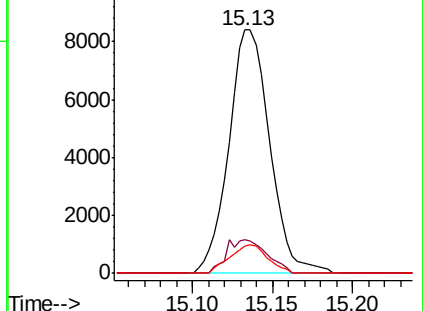
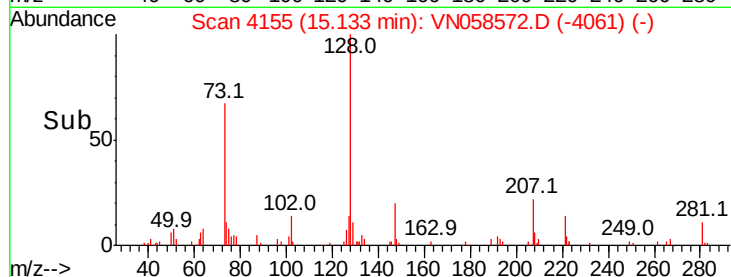
129 10.8 8.3 12.5



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: 0.911 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.00 min

Lab File: VN058572.D

Acq: 7 Oct 2019 17:30

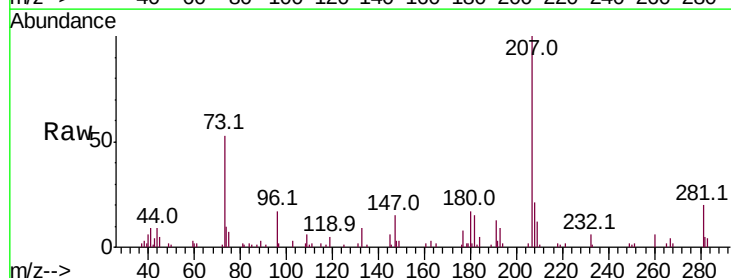
Tgt Ion:180 Resp: 4027

Ion Ratio Lower Upper

180 100

182 89.0 48.3 144.9

145 39.0 16.1 48.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

