

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058543.D
 Acq On : 4 Oct 2019 16:09
 Operator : JC/SP
 Sample : K5169-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:39:33 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	425183	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	687405	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	240949	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	296388	47.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.40%	
35) Dibromofluoromethane	7.57	113	208609	49.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.04%	
50) Toluene-d8	10.08	98	854228	51.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.52%	
62) 4-Bromofluorobenzene	12.41	95	279114	46.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.54%	

Target Compounds

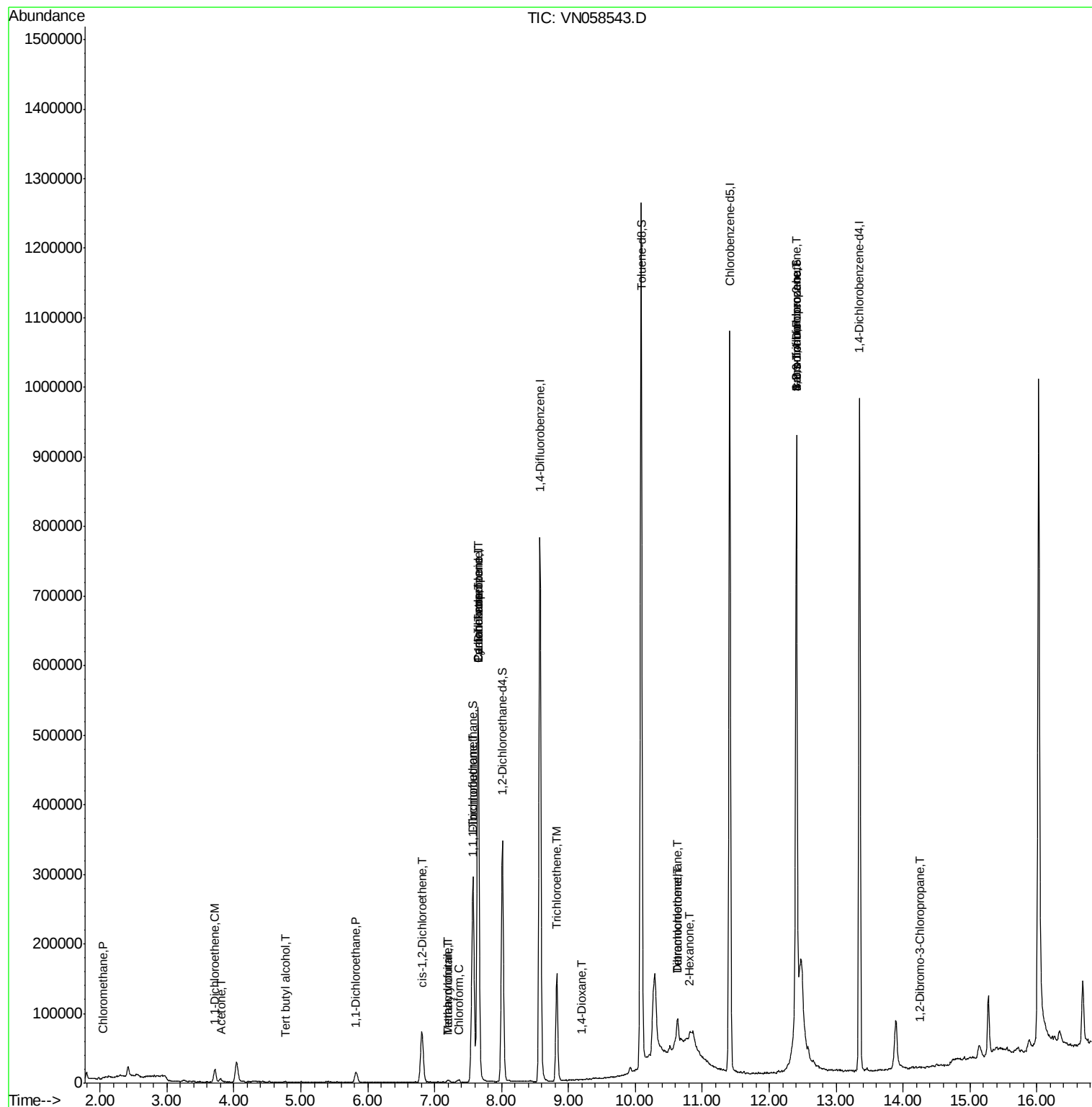
						Qvalue
3) Chloromethane	2.04	50	1664	0.325	ug/l #	85
11) Tert butyl alcohol	4.77	59	456	0.661	ug/l #	71
12) 1,1-Dichloroethene	3.72	96	9407	2.345	ug/l	91
16) Acetone	3.80	43	9042	4.269	ug/l	96
24) 1,1-Dichloroethane	5.82	63	22902	2.591	ug/l	97
27) cis-1,2-Dichloroethene	6.81	96	48185	9.243	ug/l	85
29) Tetrahydrofuran	7.21	42	2306	1.249	ug/l #	57
30) Chloroform	7.36	83	3705	0.414	ug/l	88
31) Cyclohexane	7.65	56	9888	1.150	ug/l #	18
32) 1,1,1-Trichloroethane	7.55	97	26999	3.670	ug/l	98
36) 1,1-Dichloropropene	7.65	75	36067	5.487	ug/l #	50
38) Carbon Tetrachloride	7.65	117	42918	7.234	ug/l #	17
41) Methacrylonitrile	7.19	41	1965	0.766	ug/l #	25
44) Trichloroethene	8.83	130	53858	11.545	ug/l	98
49) 1,4-Dioxane	9.19	88	514	8.056	ug/l #	52
59) 2-Hexanone	10.81	43	1039	0.265	ug/l	73
60) Dibromochloromethane	10.63	129	6283	0.858	ug/l #	11
64) Tetrachloroethene	10.62	164	7870	2.087	ug/l	91
71) Bromoform	12.41	173	678	0.938	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	155171	35.259	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	155171	107.084	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.26	75	531	0.572	ug/l #	5

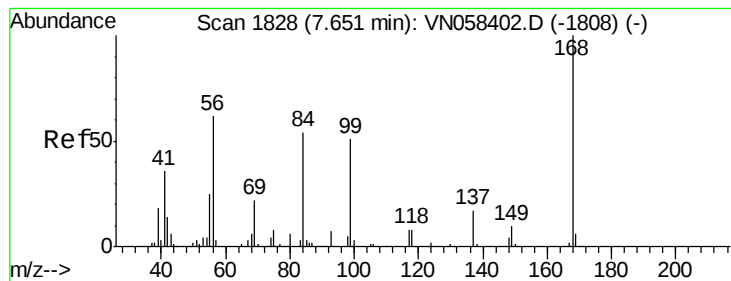
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN058543.D

Acq: 4 Oct 2019 16:09

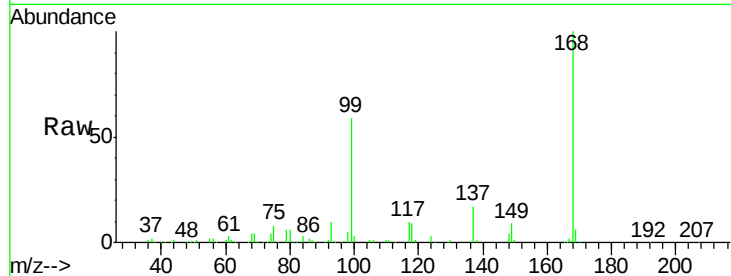
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 425183

Ion Ratio Lower Upper

168 100

99 59.1 47.7 71.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

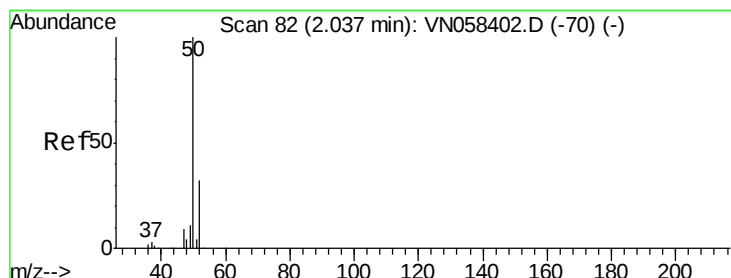
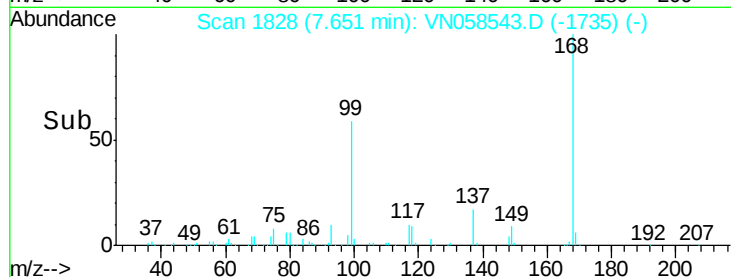
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.325 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058543.D

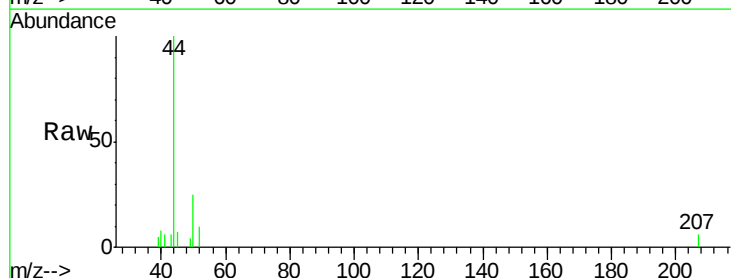
Acq: 4 Oct 2019 16:09

Tgt Ion: 50 Resp: 1664

Ion Ratio Lower Upper

50 100

52 40.8 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

1200

1000

800

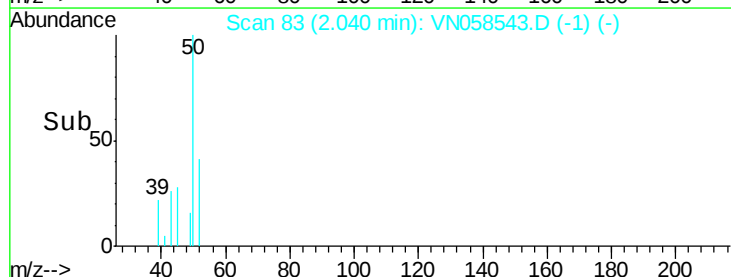
600

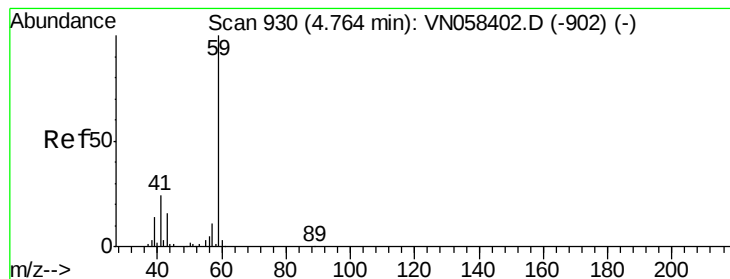
400

200

0

Time-->



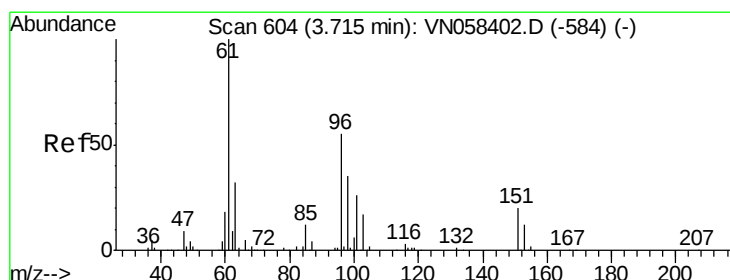
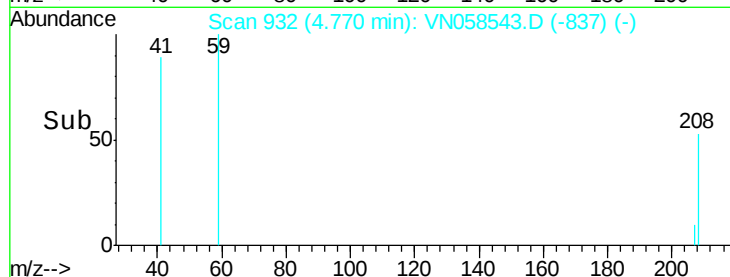
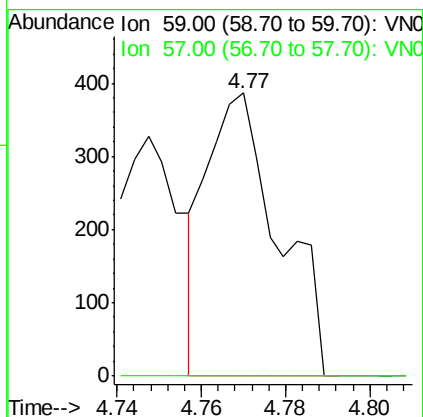
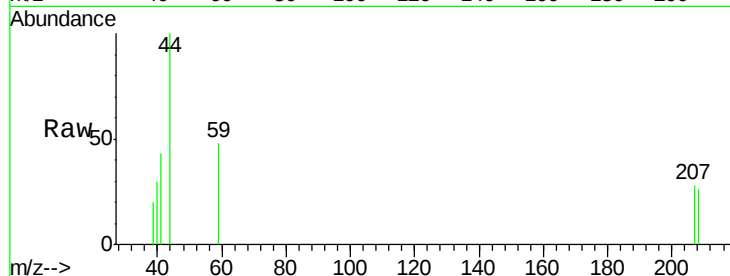


#11

Tert butyl alcohol
Concen: 0.661 ug/l
RT: 4.77 min Scan# 932
Delta R.T. 0.01 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Instrument :
MSVOA_N
ClientSampled :

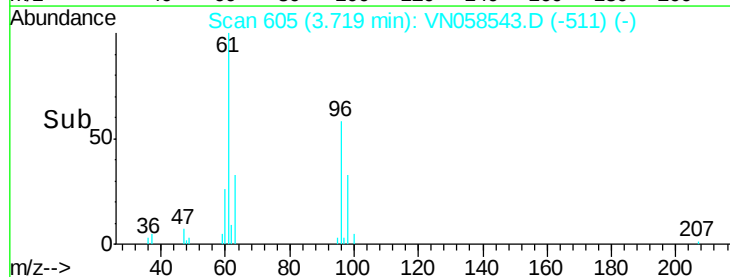
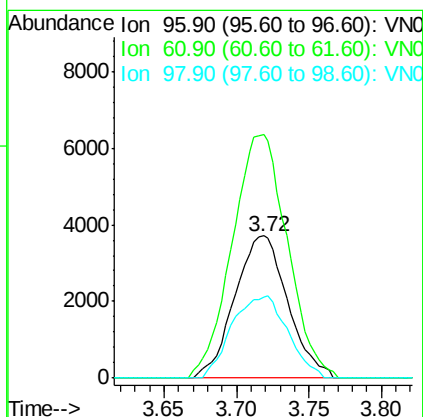
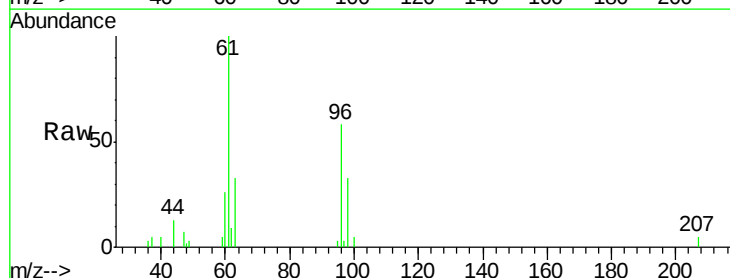
Tot Ion: 59 Resp: 456
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#

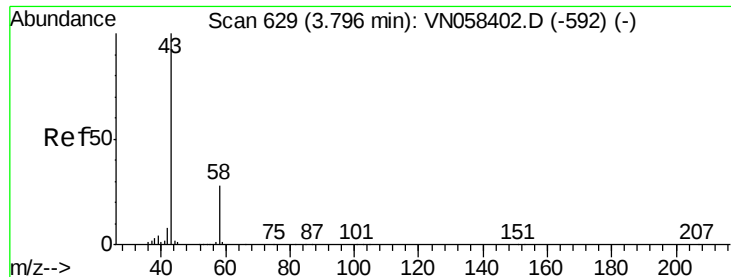


#12

1,1-Dichloroethene
Concen: 2.345 ug/l
RT: 3.72 min Scan# 605
Delta R.T. 0.00 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Tgt Ion: 96 Resp: 9407
Ion Ratio Lower Upper
96 100
61 171.1 146.7 220.1
98 56.8 51.3 76.9





#16

Acetone

Concen: 4.269 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

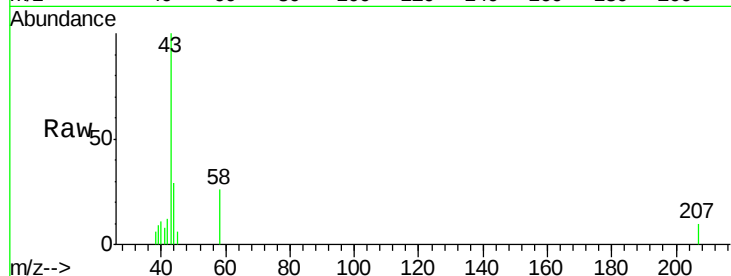
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 43 Resp: 9042

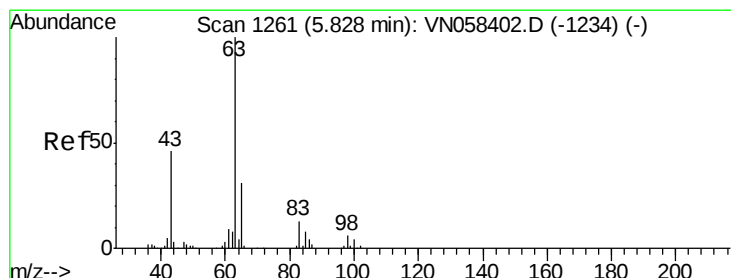
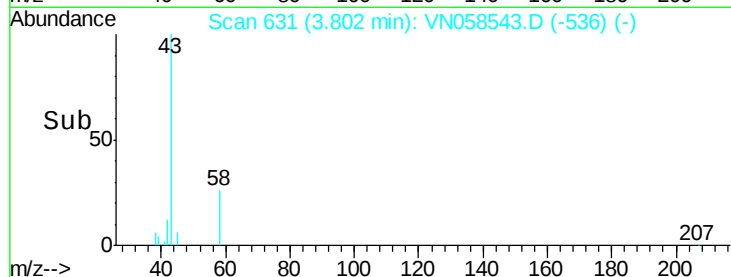
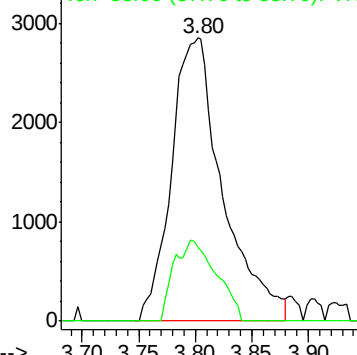
Ion Ratio Lower Upper

43 100

58 26.0 22.4 33.6



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



#24

1,1-Dichloroethane

Concen: 2.591 ug/l

RT: 5.82 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

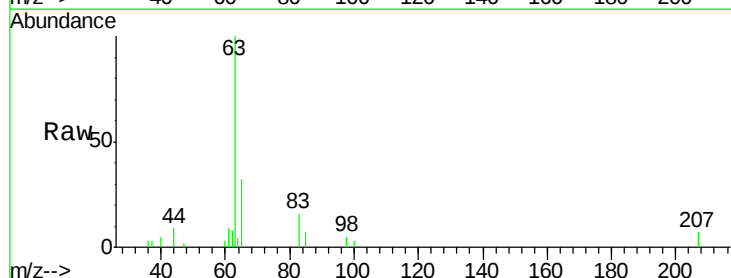
Tgt Ion: 63 Resp: 22902

Ion Ratio Lower Upper

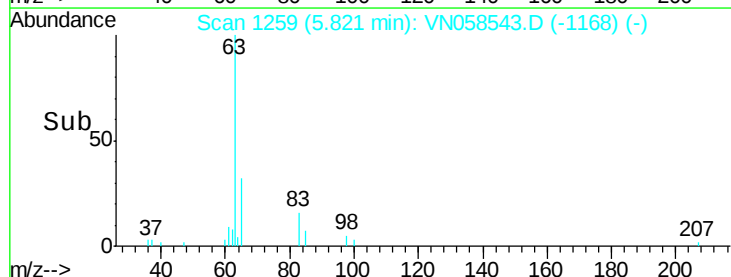
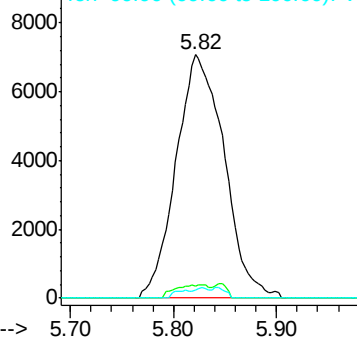
63 100

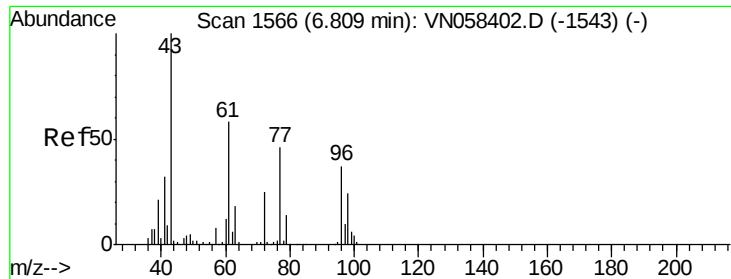
98 5.1 3.0 9.0

100 3.2 2.0 5.8



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0

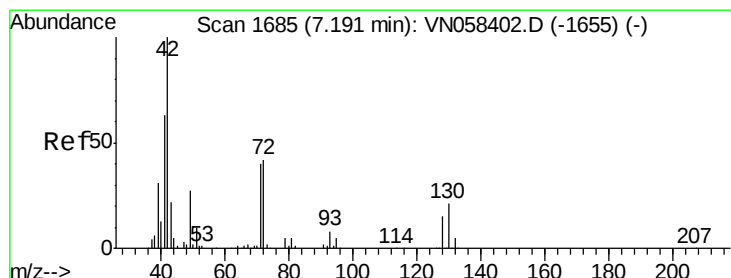
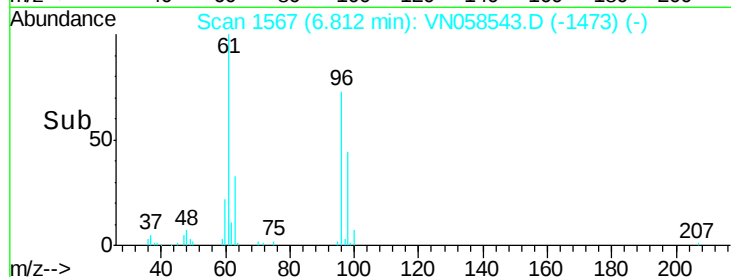
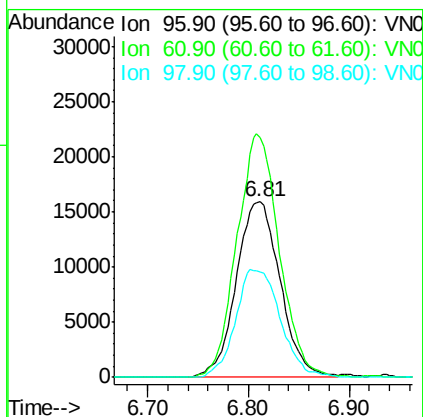
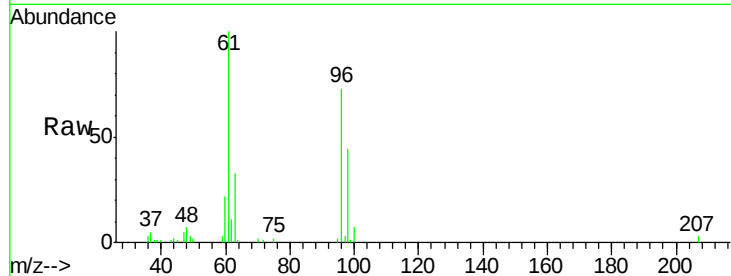




#27
 cis-1,2-Dichloroethene
 Concen: 9.243 ug/l
 RT: 6.81 min Scan# 1567
 Delta R.T. 0.00 min
 Lab File: VN058543.D
 Acq: 4 Oct 2019 16:09

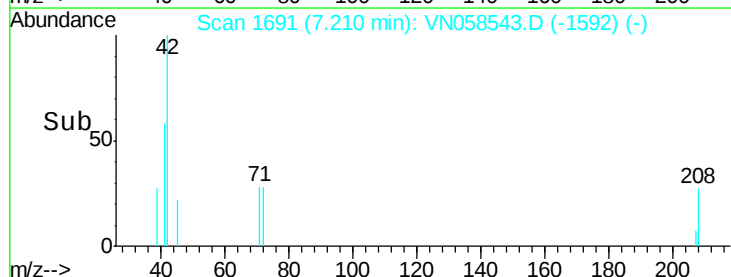
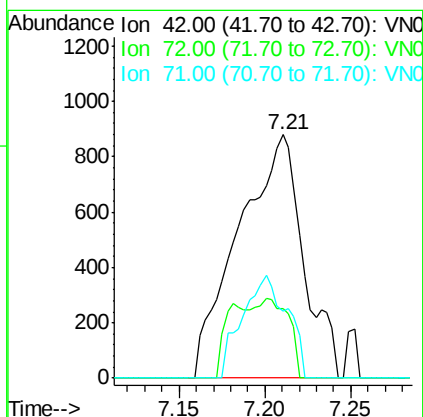
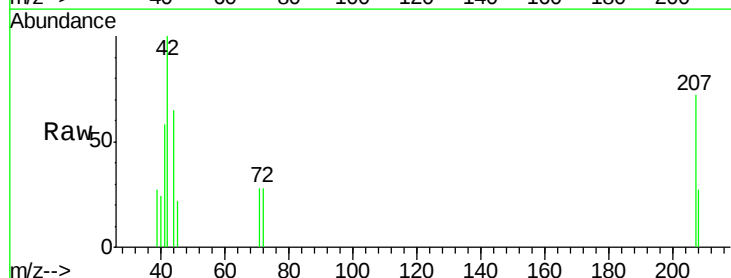
Instrument :
 MSVOA_N
 ClientSampled :

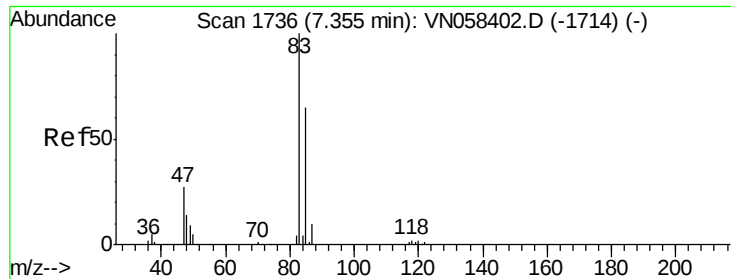
Tot Ion: 96 Resp: 48185
 Ion Ratio Lower Upper
 96 100
 61 133.5 0.0 318.8
 98 62.5 0.0 129.8



#29
 Tetrahydrofuran
 Concen: 1.249 ug/l
 RT: 7.21 min Scan# 1691
 Delta R.T. 0.02 min
 Lab File: VN058543.D
 Acq: 4 Oct 2019 16:09

Tgt Ion: 42 Resp: 2306
 Ion Ratio Lower Upper
 42 100
 72 0.0 33.7 50.5#
 71 29.1 31.8 47.6#

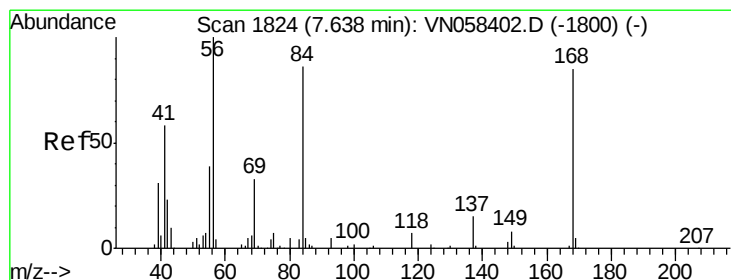
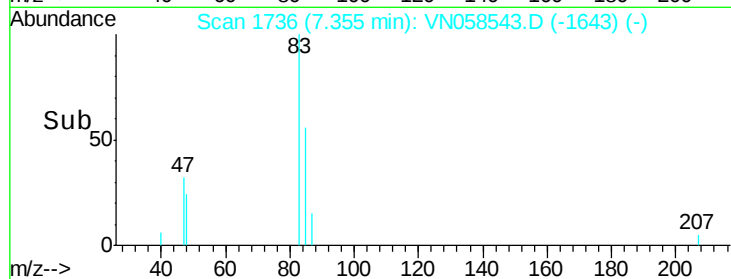
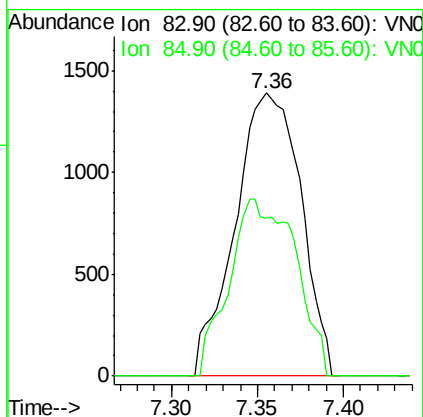
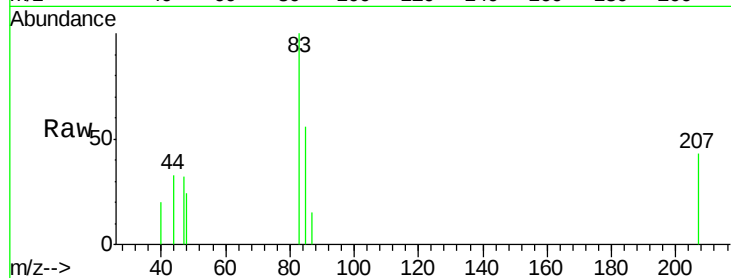




#30
Chloroform
Concen: 0.414 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. -0.00 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

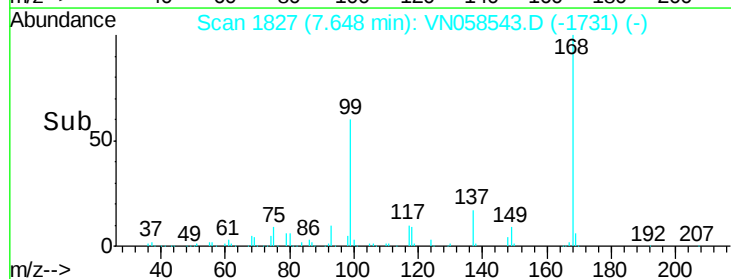
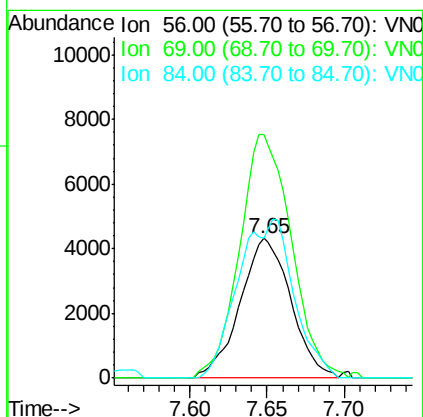
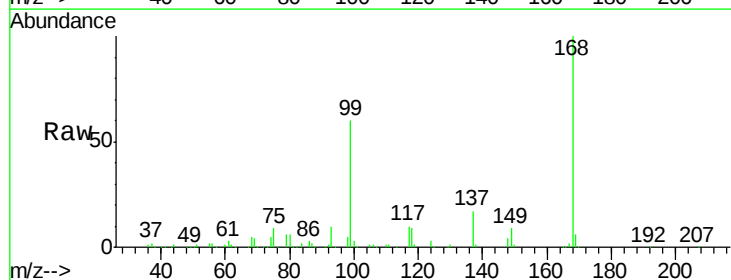
Instrument :
MSVOA_N
ClientSampleId :

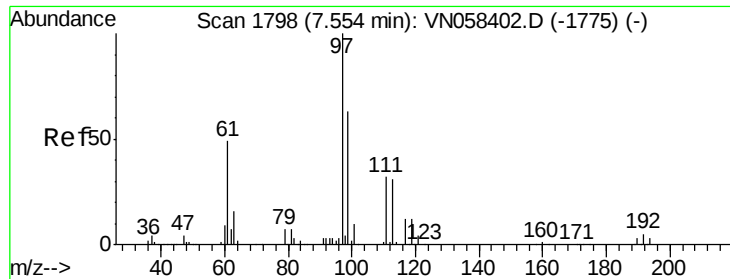
Tot Ion: 83 Resp: 3705
Ion Ratio Lower Upper
83 100
85 55.8 52.0 78.0



#31
Cyclohexane
Concen: 1.150 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Tgt Ion: 56 Resp: 9888
Ion Ratio Lower Upper
56 100
69 174.1 26.2 39.4#
84 99.6 67.6 101.4





#32

1,1,1-Trichloroethane

Concen: 3.670 ug/l

RT: 7.55 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

Instrument :

MSVOA_N

ClientSampled :

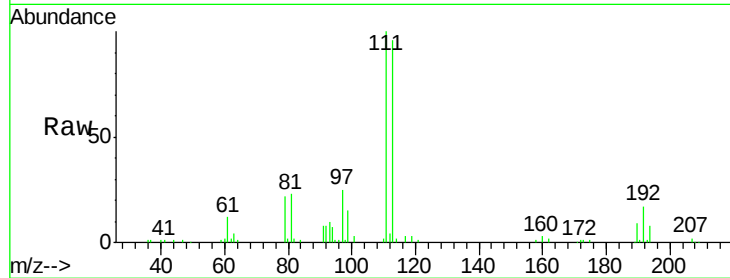
Tot Ion: 97 Resp: 26999

Ion Ratio Lower Upper

97 100

99 65.3 51.1 76.7

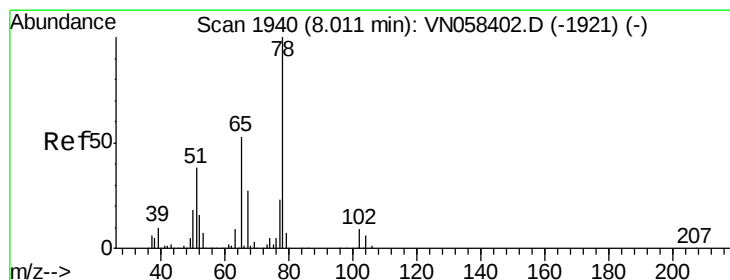
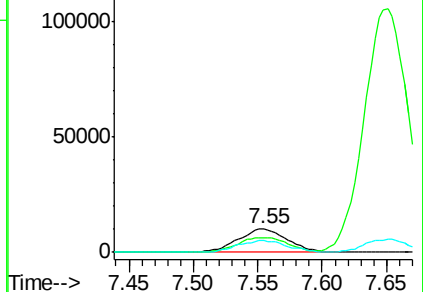
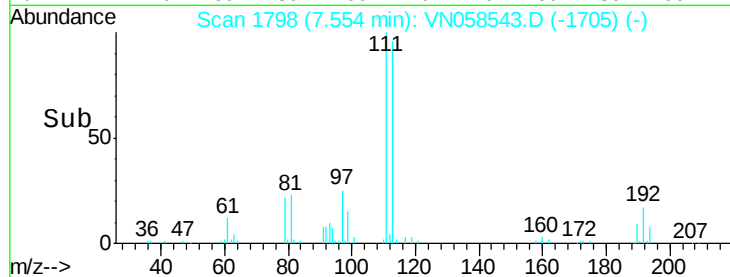
61 51.2 39.2 58.8



Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 98.90 (98.60 to 99.60): VN0

Ion 60.90 (60.60 to 61.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 47.702 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058543.D

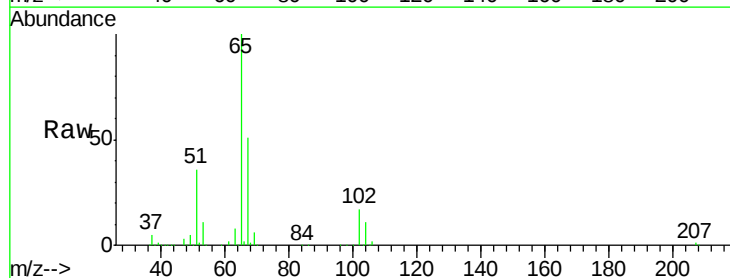
Acq: 4 Oct 2019 16:09

Tgt Ion: 65 Resp: 296388

Ion Ratio Lower Upper

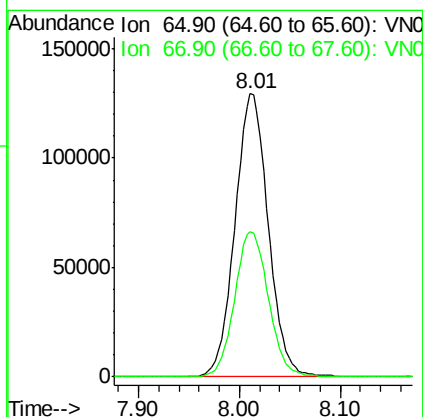
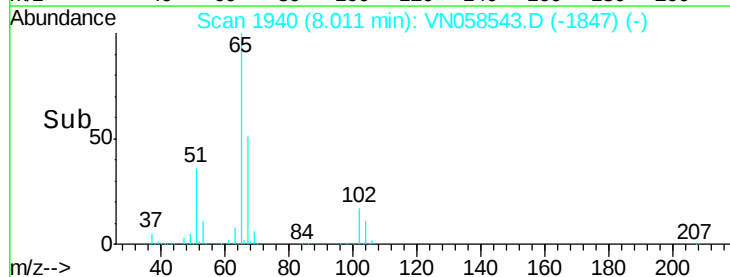
65 100

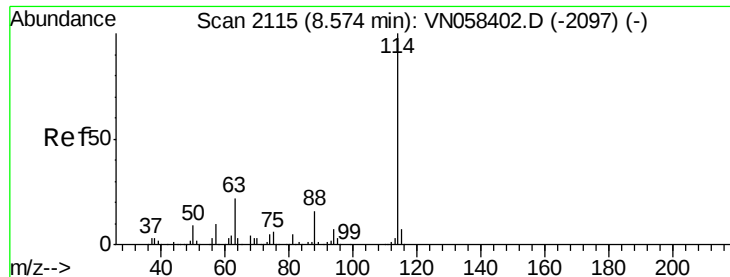
67 52.1 0.0 102.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

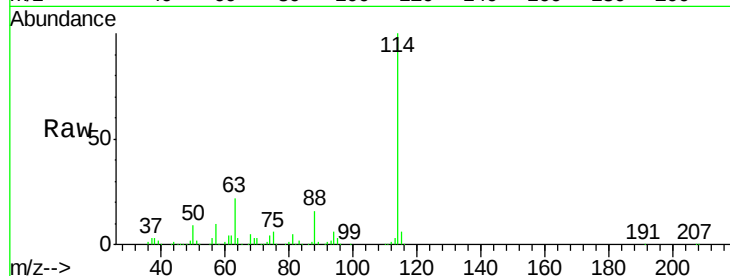




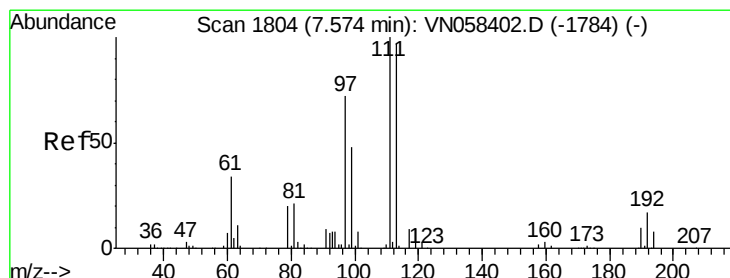
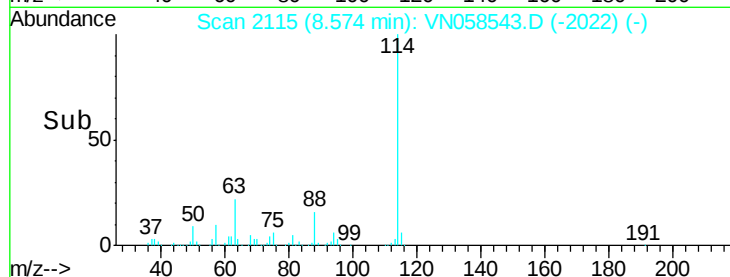
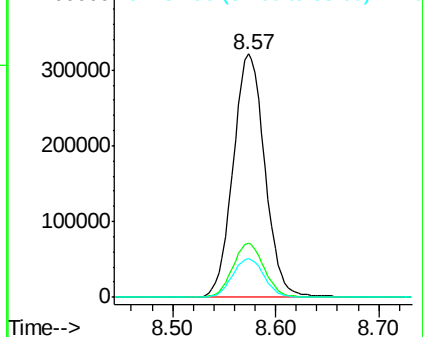
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058543.D
 Acq: 4 Oct 2019 16:09

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	45.0
88	16.0	0.0	32.2

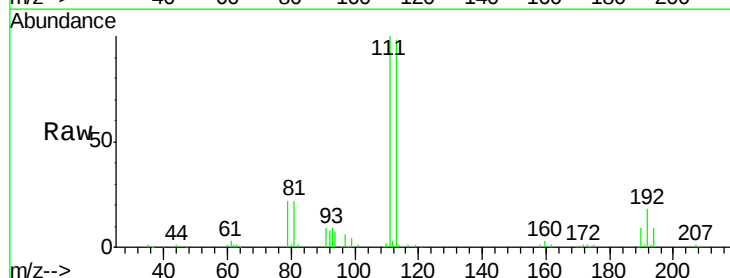


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

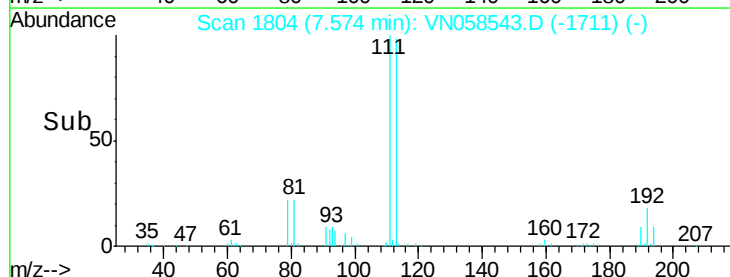
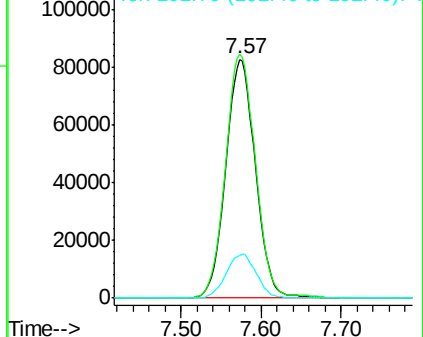


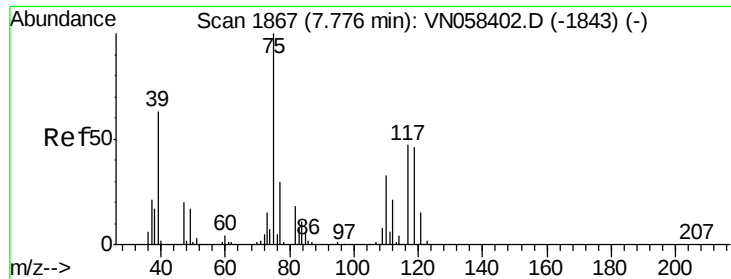
#35
 Dibromofluoromethane
 Concen: 49.515 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058543.D
 Acq: 4 Oct 2019 16:09

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	83.4	125.2
192	18.6	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

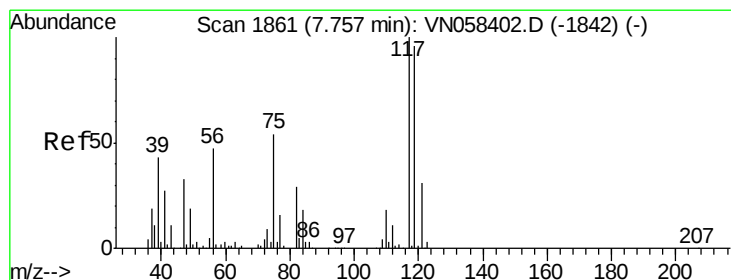
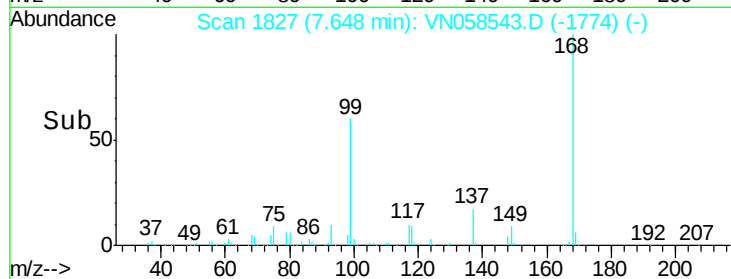
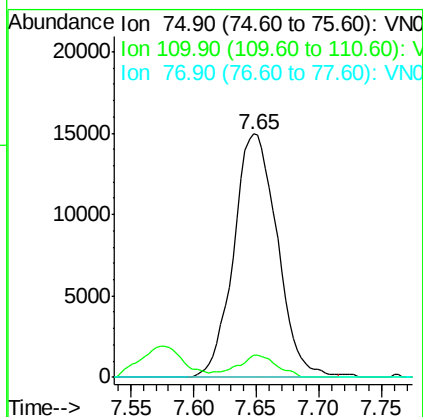
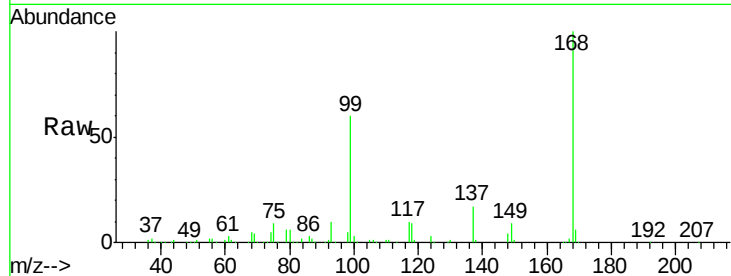




#36
 1,1-Dichloropropene
 Concen: 5.487 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058543.D
 Acq: 4 Oct 2019 16:09

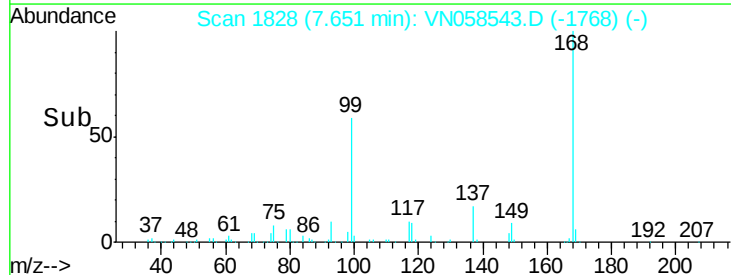
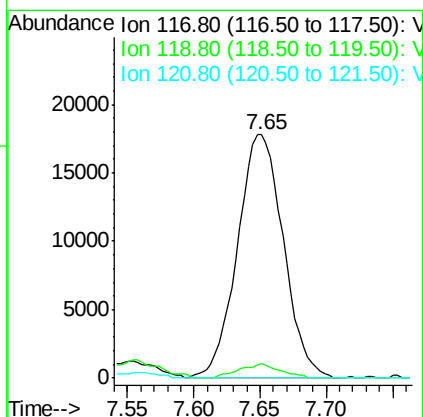
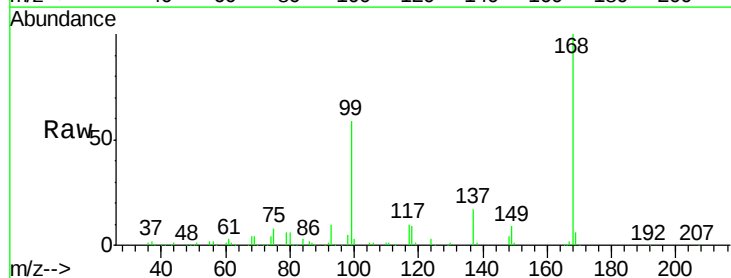
Instrument :
 MSVOA_N
 ClientSampled :

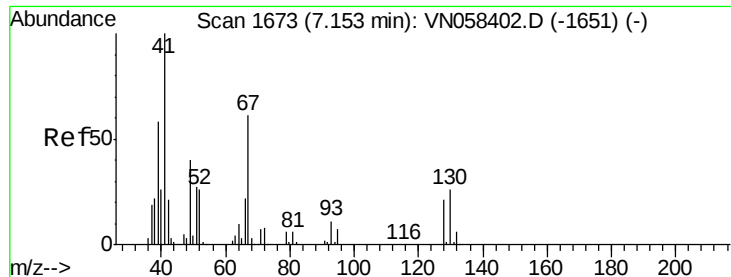
Tot Ion	75	Resp	36067
Ion Ratio	Lower	Upper	
75	100		
110	8.1	16.4	49.2#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 7.234 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058543.D
 Acq: 4 Oct 2019 16:09

Tgt Ion	117	Resp	42918
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	6.1	76.6	115.0#
121	0.0	24.7	37.1#

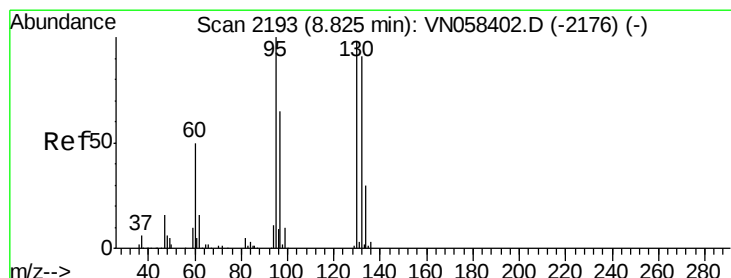
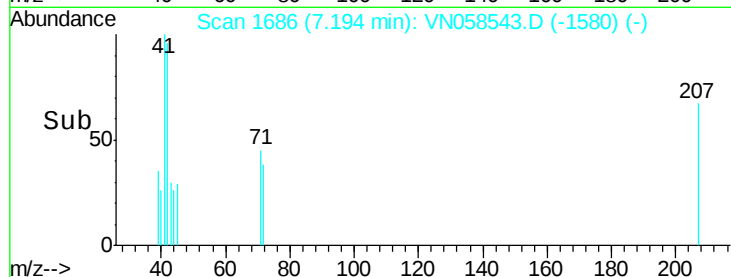
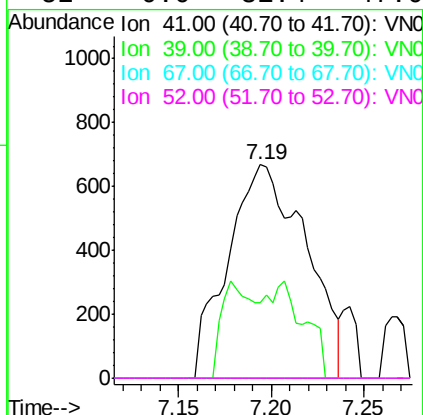
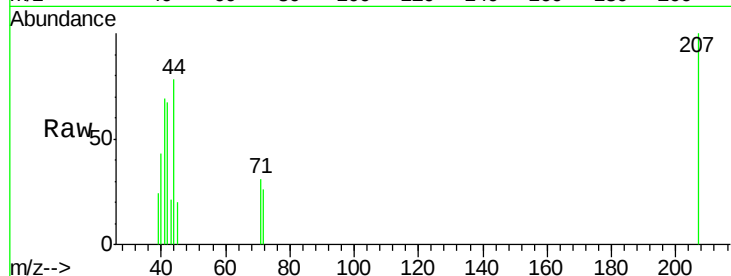




#41
Methacrylonitrile
Concen: 0.766 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.04 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

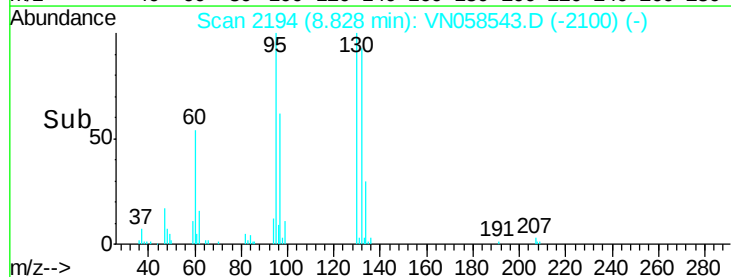
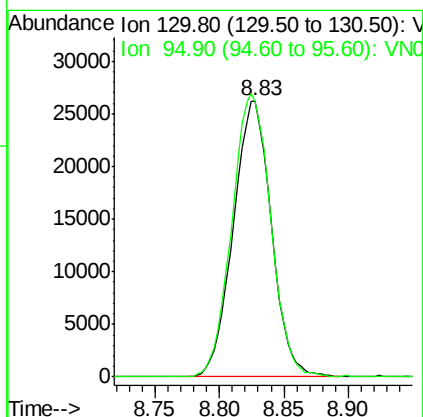
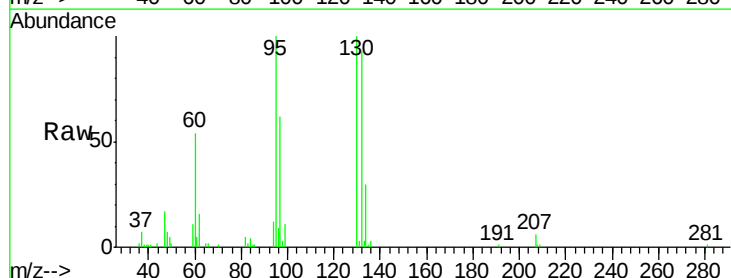
Instrument :
MSVOA_N
ClientSampled :

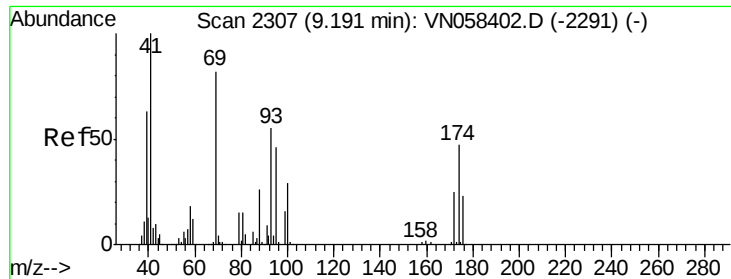
Tot Ion: 41 Resp: 1965
Ion Ratio Lower Upper
41 100
39 19.5 50.2 75.4#
67 0.0 70.2 105.4#
52 0.0 31.4 47.0#



#44
Trichloroethene
Concen: 11.545 ug/l
RT: 8.83 min Scan# 2194
Delta R.T. 0.00 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Tgt Ion: 130 Resp: 53858
Ion Ratio Lower Upper
130 100
95 100.0 0.0 204.2

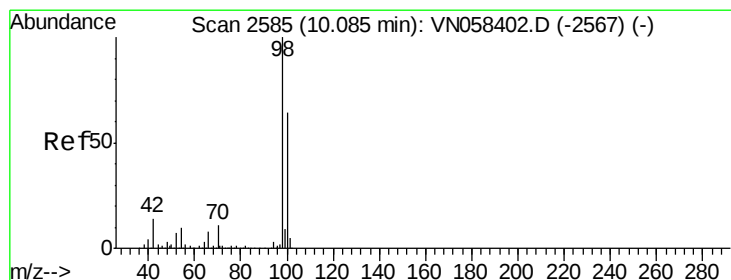
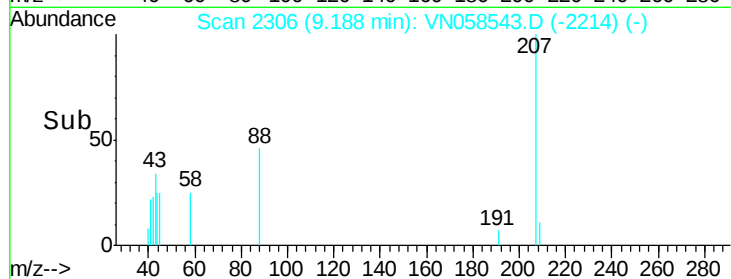
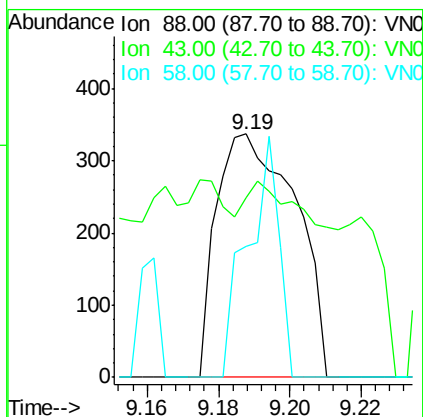
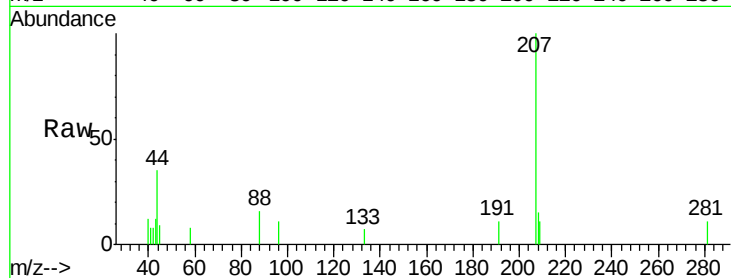




#49
1,4-Dioxane
Concen: 8.056 ug/l
RT: 9.19 min Scan# 2306
Delta R.T. -0.00 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

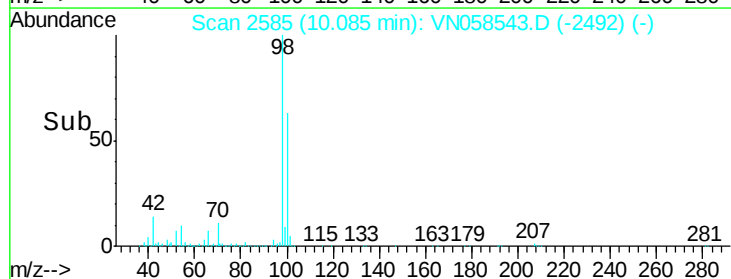
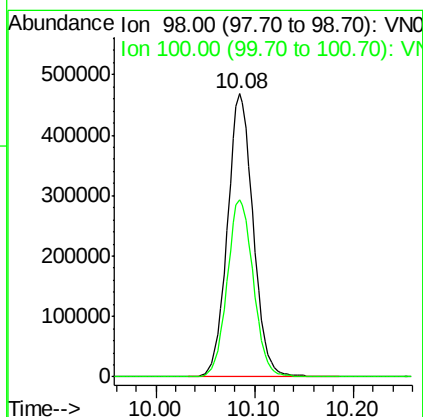
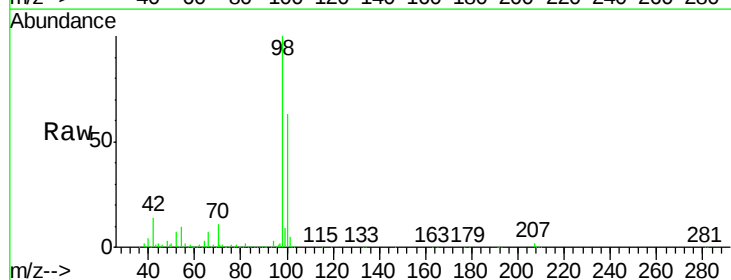
Instrument :
MSVOA_N
ClientSampleId :

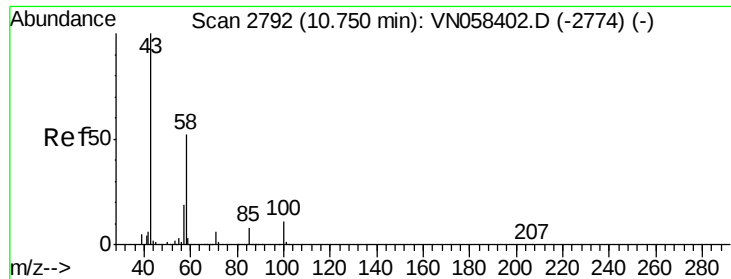
Tot Ion: 88 Resp: 514
Ion Ratio Lower Upper
88 100
43 0.0 31.1 46.7#
58 39.5 58.1 87.1#



#50
Toluene-d8
Concen: 51.758 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Tgt Ion: 98 Resp: 854228
Ion Ratio Lower Upper
98 100
100 63.7 51.0 76.6

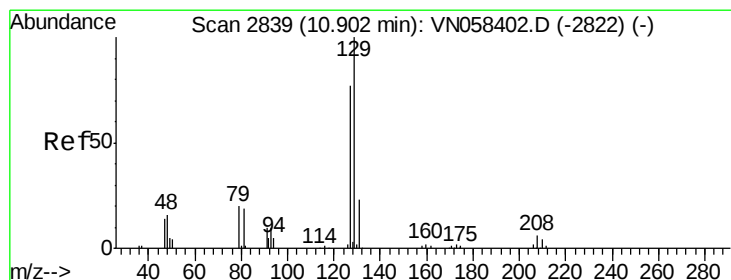
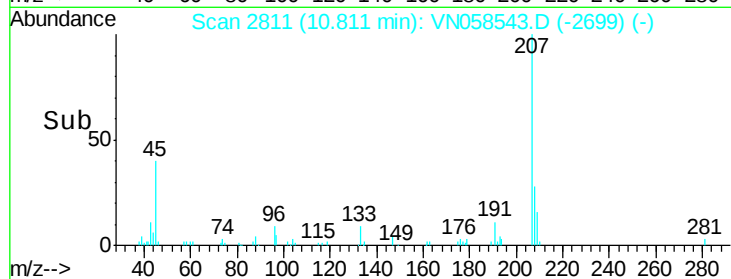
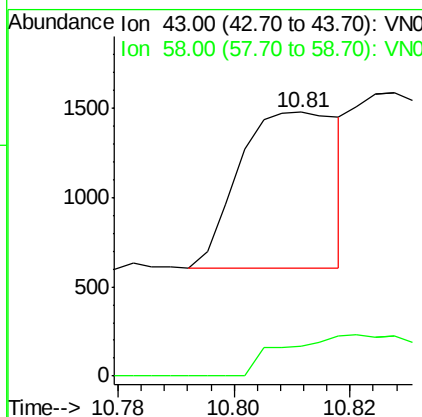
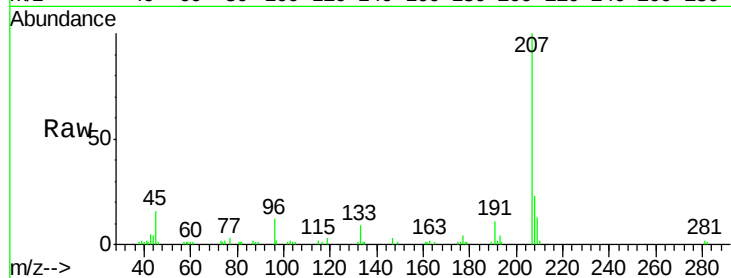




#59
2-Hexanone
Concen: 0.265 ug/l
RT: 10.81 min Scan# 2811
Delta R.T. 0.06 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

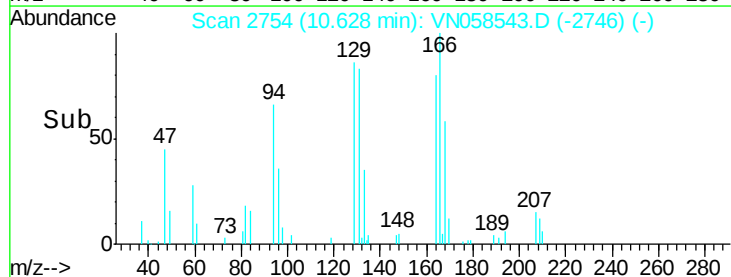
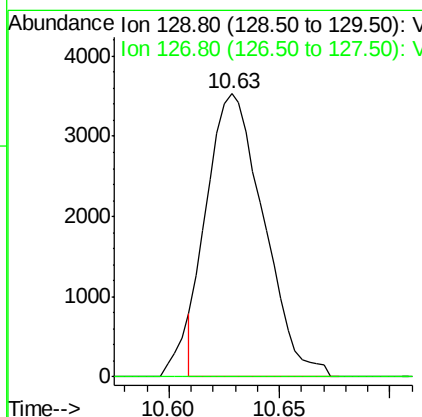
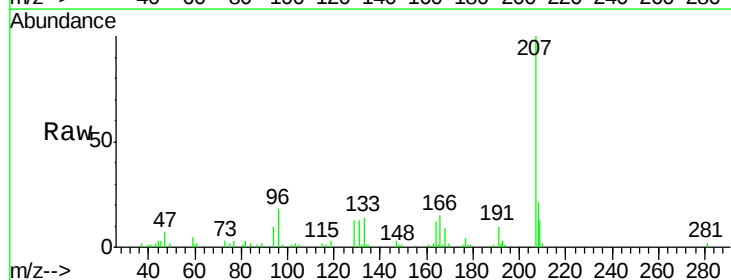
Instrument :
MSVOA_N
ClientSampled :

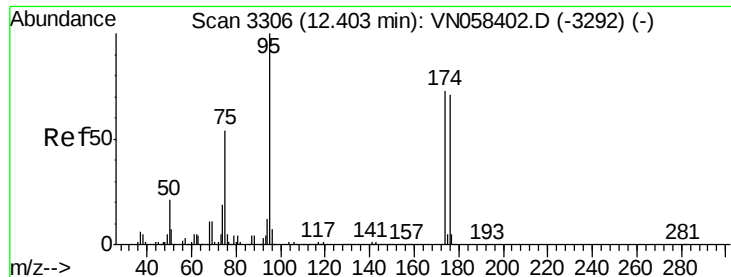
Tot Ion: 43 Resp: 1039
Ion Ratio Lower Upper
43 100
58 32.8 25.8 77.3



#60
Dibromochloromethane
Concen: 0.858 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Tgt Ion: 129 Resp: 6283
Ion Ratio Lower Upper
129 100
127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 46.771 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

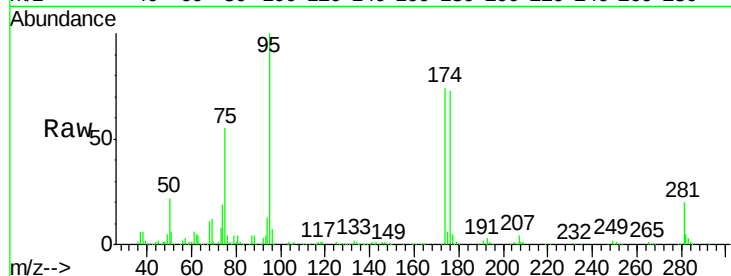
Tot Ion: 95 Resp: 279114

Ion Ratio Lower Upper

95 100

174 74.3 0.0 150.6

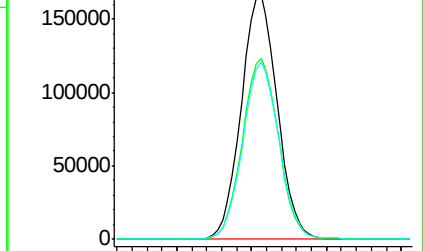
176 73.4 0.0 146.2



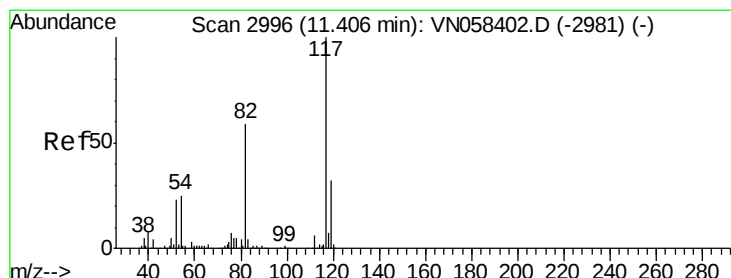
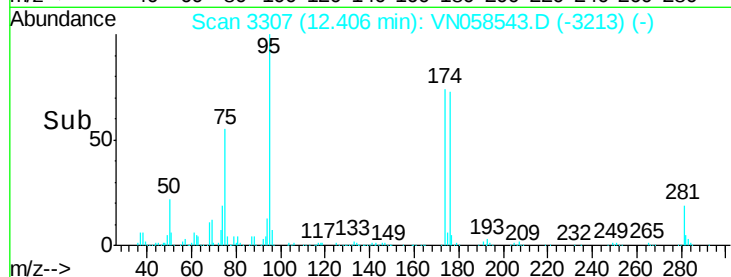
Abundance Ion 94.90 (94.60 to 95.60): VN058402.D (-3292) (-)

Ion 173.80 (173.50 to 174.50): VN058402.D (-3292) (-)

Ion 175.80 (175.50 to 176.50): VN058402.D (-3292) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

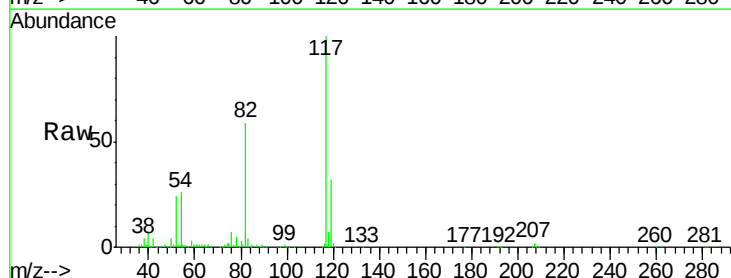
Tgt Ion: 117 Resp: 593598

Ion Ratio Lower Upper

117 100

82 58.8 47.4 71.0

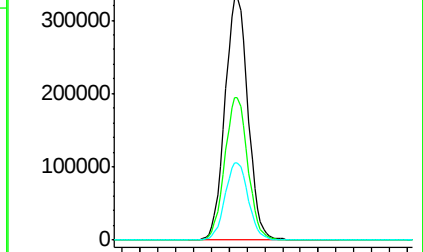
119 31.9 25.5 38.3



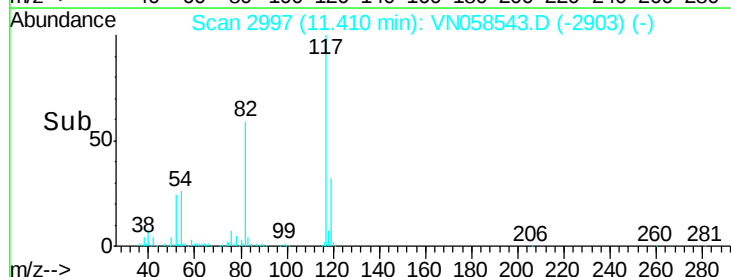
Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

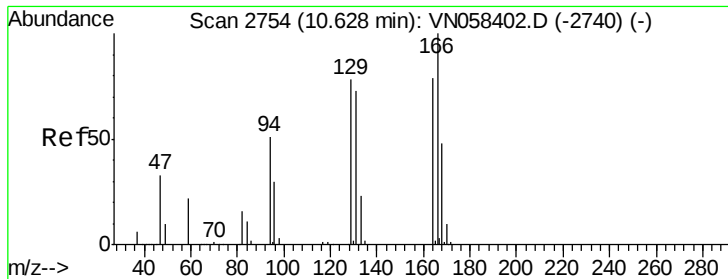
Ion 82.00 (81.70 to 82.70): VN058402.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN058402.D (-2981) (-)



Time-->

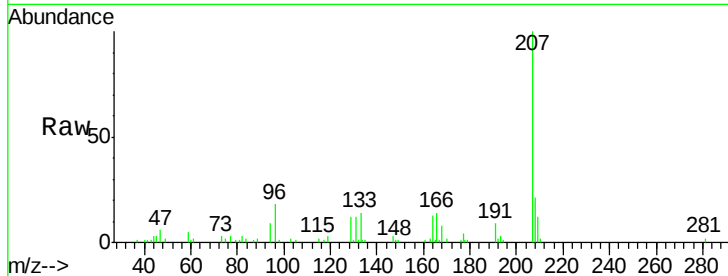




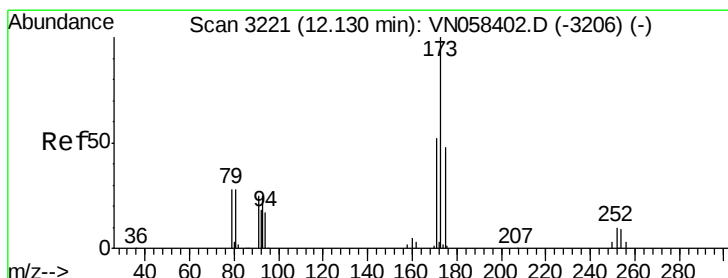
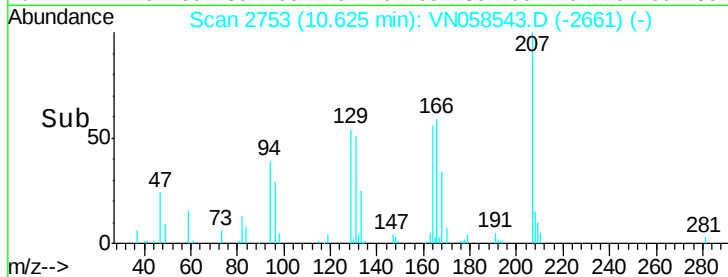
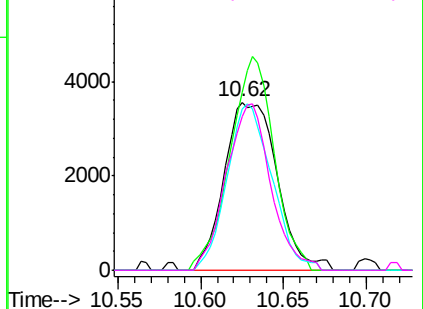
#64
Tetrachloroethene
Concen: 2.087 ug/l
RT: 10.62 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:164 Resp: 7870
Ion Ratio Lower Upper
164 100
166 105.6 101.1 151.7
129 95.8 79.2 118.8
131 91.4 74.1 111.1

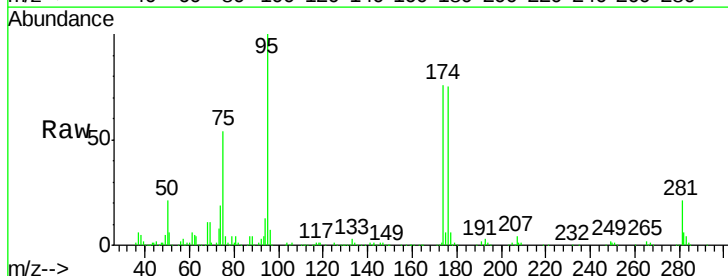


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

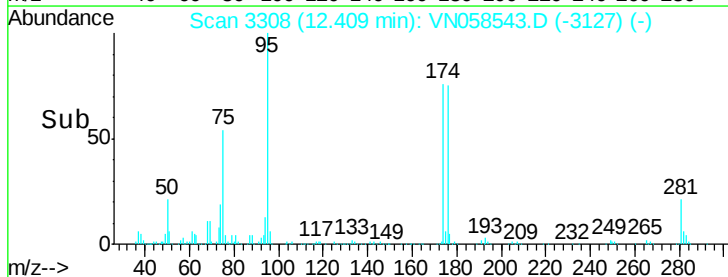
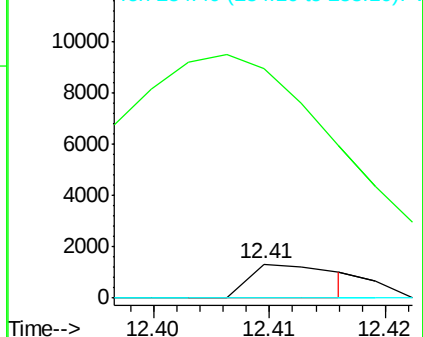


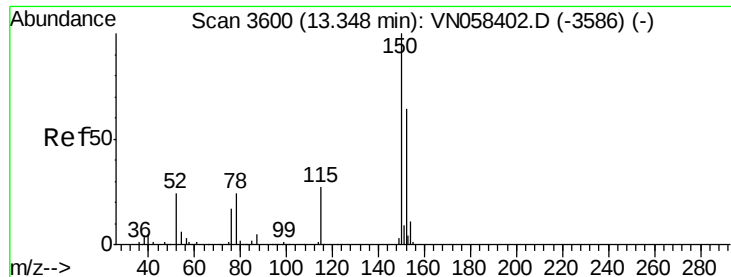
#71
Bromoform
Concen: 0.938 ug/l
RT: 12.41 min Scan# 3308
Delta R.T. 0.28 min
Lab File: VN058543.D
Acq: 4 Oct 2019 16:09

Tgt Ion:173 Resp: 678
Ion Ratio Lower Upper
173 100
175 1986.3 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: VN058543.D

Acq: 4 Oct 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

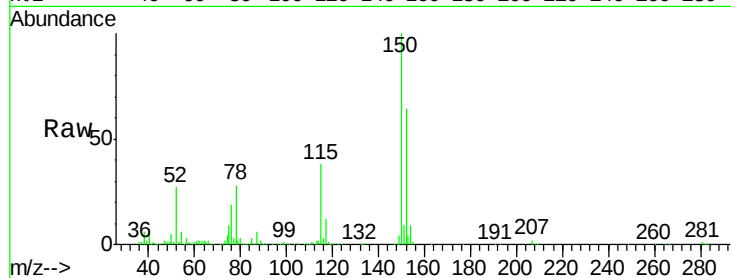
Tot Ion:152 Resp: 240949

Ion Ratio Lower Upper

152 100

115 60.2 30.0 90.0

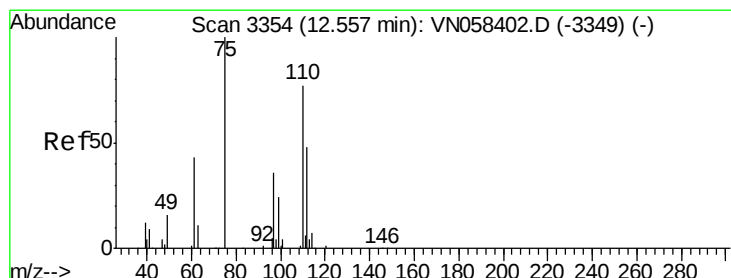
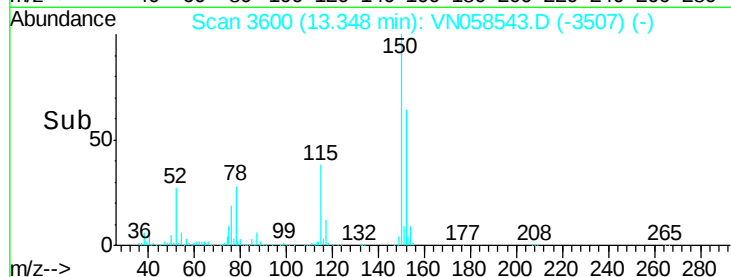
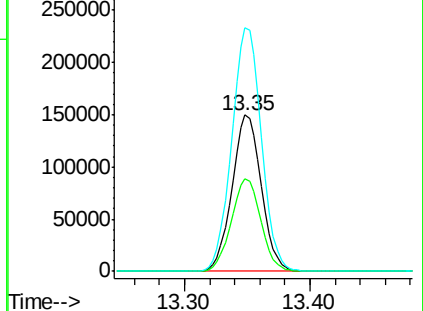
150 158.5 0.0 348.2



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: 35.259 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058543.D

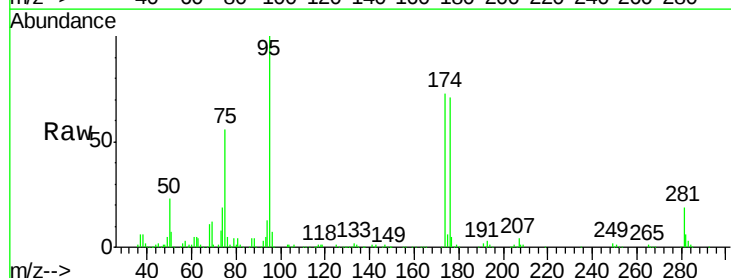
Acq: 4 Oct 2019 16:09

Tgt Ion: 75 Resp: 155171

Ion Ratio Lower Upper

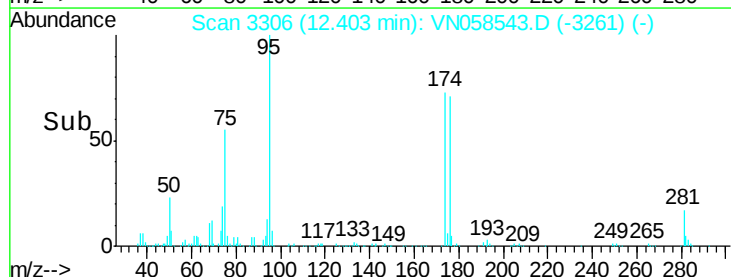
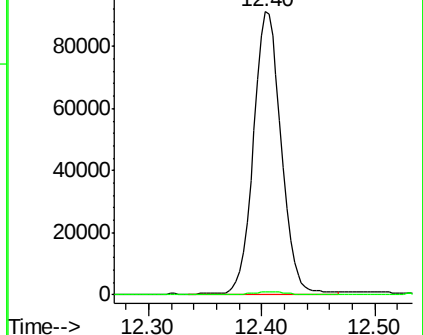
75 100

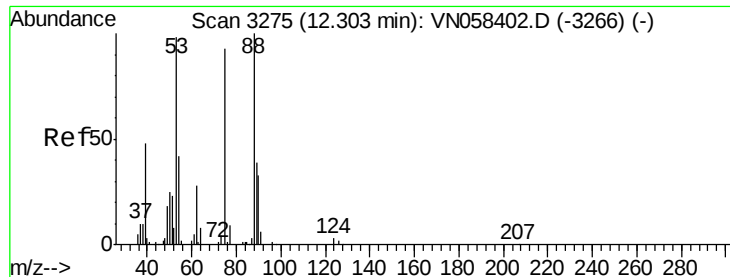
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 107.084 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

Instrument :

MSVOA_N

ClientSampleId :

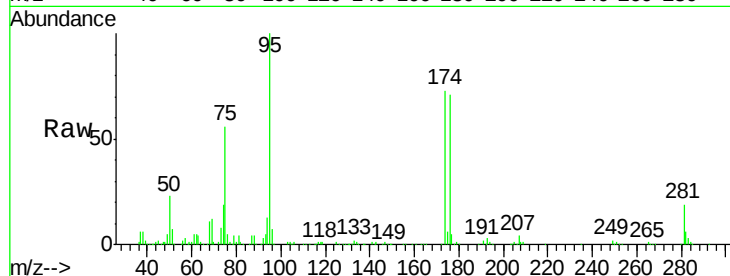
Tot Ion: 75 Resp: 155171

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

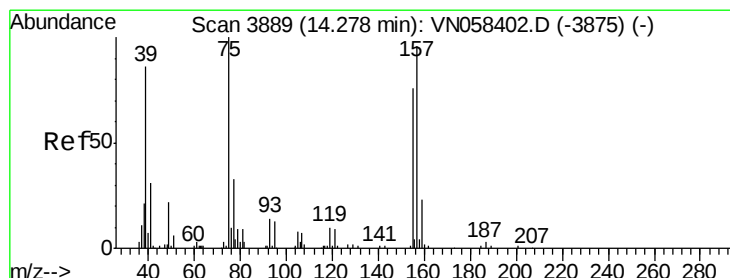
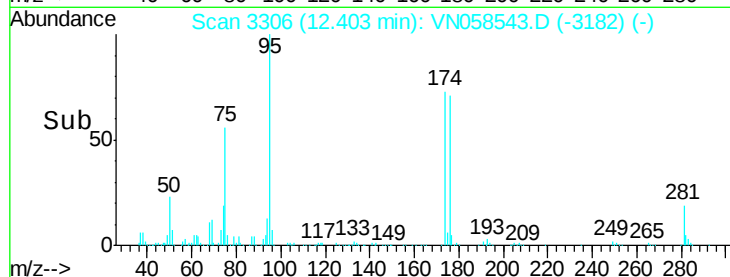
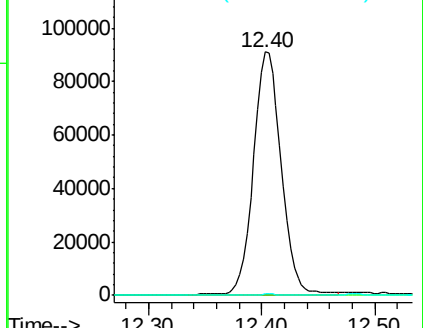
89 0.2 35.0 52.4#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.572 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.02 min

Lab File: VN058543.D

Acq: 4 Oct 2019 16:09

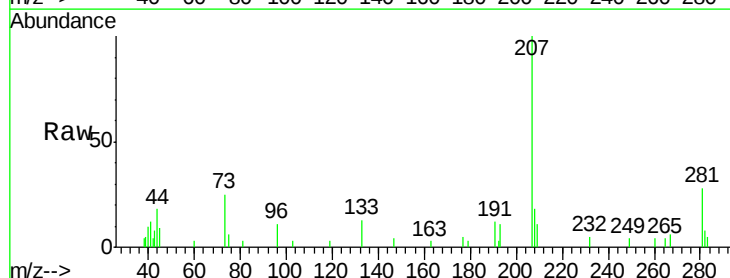
Tgt Ion: 75 Resp: 531

Ion Ratio Lower Upper

75 100

155 0.0 39.2 117.6#

157 0.0 48.7 146.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

