

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100419\
 Data File : VN058531.D
 Acq On : 4 Oct 2019 11:47
 Operator : JC/SP
 Sample : K5169-07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 04 23:35:40 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	413079	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	683834	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	596683	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	255249	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	299419	49.60	ug/l	0.00
Spiked Amount			Recovery	=	99.20%	
35) Dibromofluoromethane	7.57	113	207198	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	
50) Toluene-d8	10.08	98	847435	51.61	ug/l	0.00
Spiked Amount			Recovery	=	103.22%	
62) 4-Bromofluorobenzene	12.41	95	285787	48.14	ug/l	0.00
Spiked Amount			Recovery	=	96.28%	

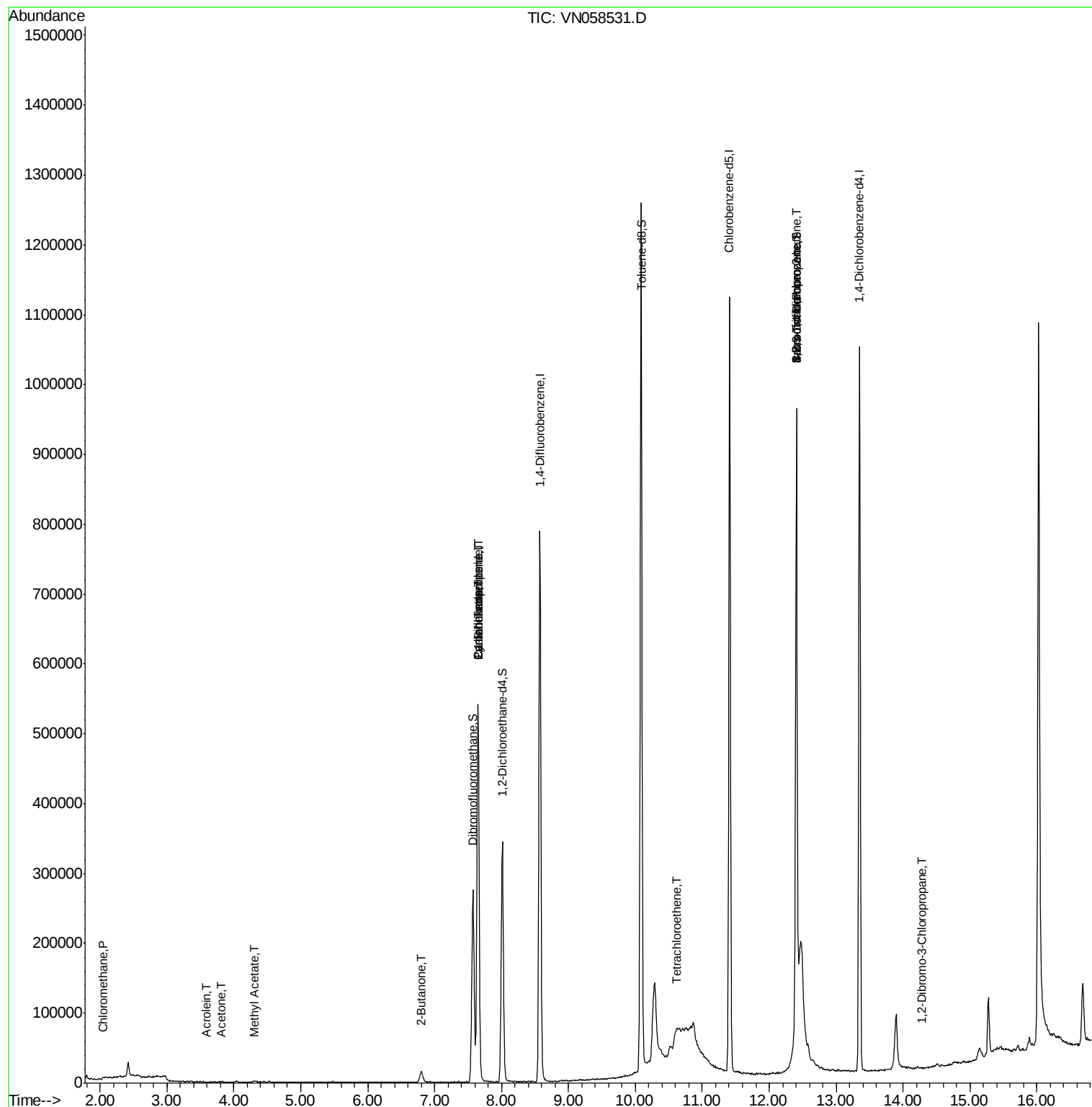
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1277	0.256	ug/l	100
13) Acrolein	3.59	56	60	0.281	ug/l #	13
16) Acetone	3.80	43	1591	0.773	ug/l #	47
18) Methyl Acetate	4.30	43	1087	0.210	ug/l #	74
25) 2-Butanone	6.81	43	1378	0.488	ug/l #	90
31) Cyclohexane	7.65	56	10841	1.298	ug/l #	5
36) 1,1-Dichloropropene	7.65	75	37618	5.753	ug/l #	51
38) Carbon Tetrachloride	7.65	117	42820	7.255	ug/l #	15
60) Dibromochloromethane	10.63	129	566	Below Cal	#	11
64) Tetrachloroethene	10.62	164	786	0.207	ug/l #	71
71) Bromoform	12.40	173	699	0.944	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	159102	34.126	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	159102	103.646	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	14.29	75	369	0.375	ug/l #	5

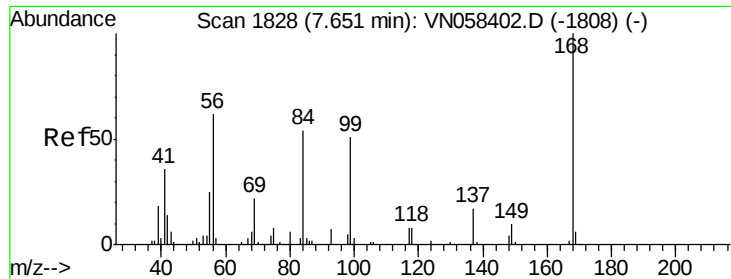
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

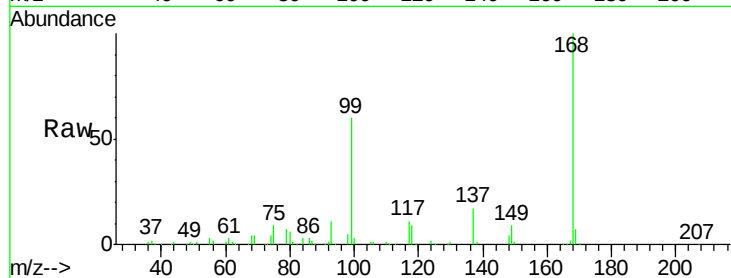
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 413079

Ion Ratio Lower Upper

168 100

99 59.6 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

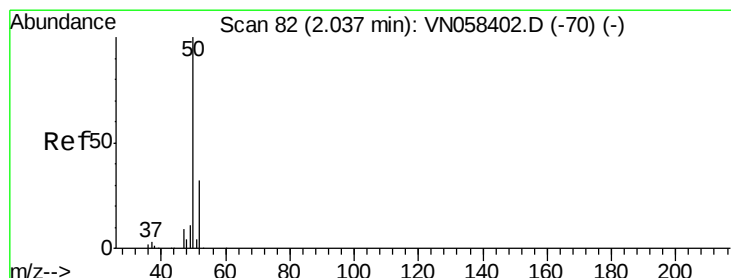
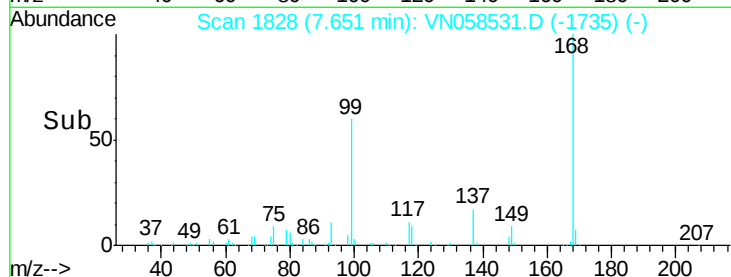
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.256 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058531.D

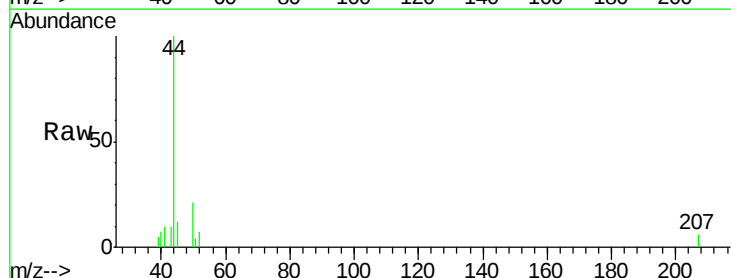
Acq: 4 Oct 2019 11:47

Tgt Ion: 50 Resp: 1277

Ion Ratio Lower Upper

50 100

52 32.2 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

1000

800

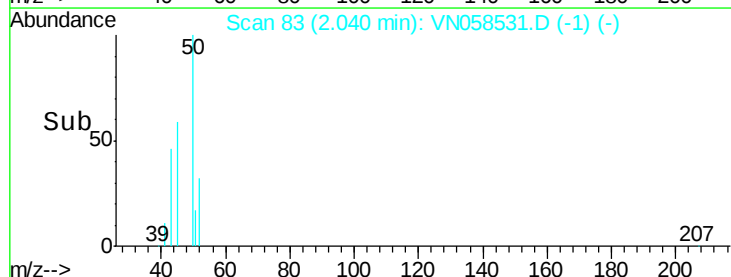
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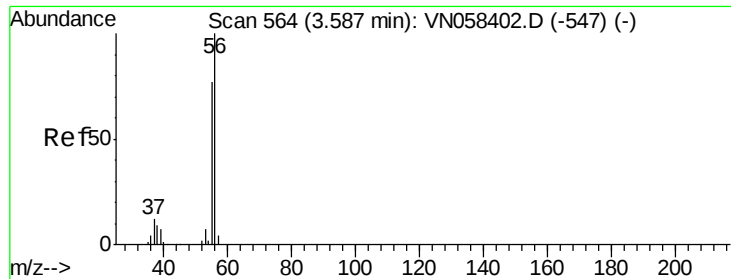
400

200

0

Time-->





#13

Acrolein

Concen: 0.281 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

Instrument :

MSVOA_N

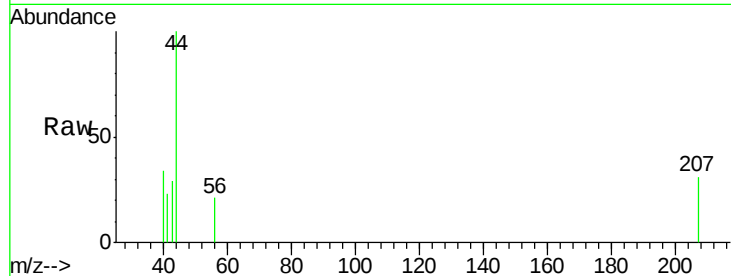
ClientSampleId :

Tot Ion: 56 Resp: 60

Ion Ratio Lower Upper

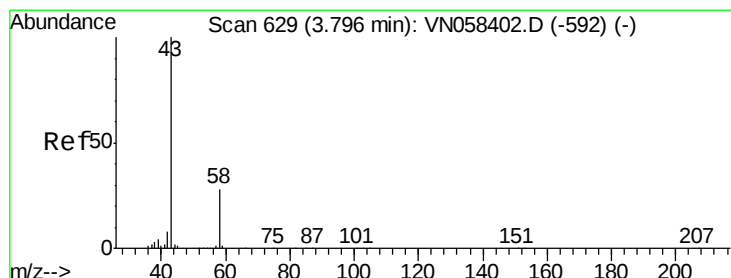
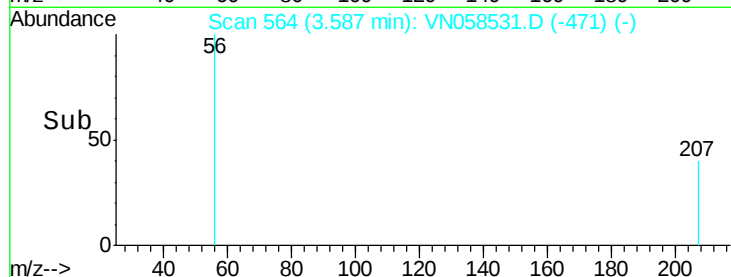
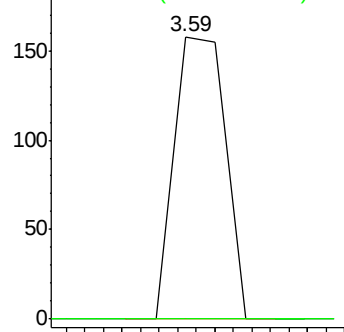
56 100

55 0.0 58.3 87.5#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 0.773 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058531.D

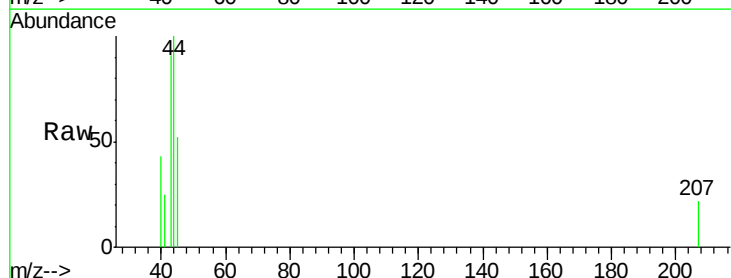
Acq: 4 Oct 2019 11:47

Tgt Ion: 43 Resp: 1591

Ion Ratio Lower Upper

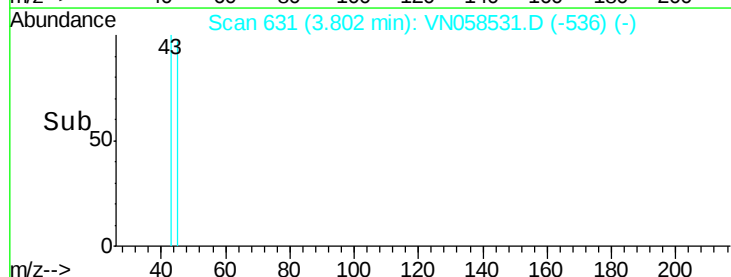
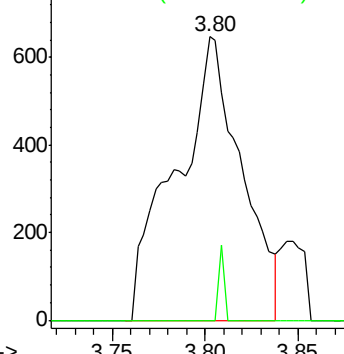
43 100

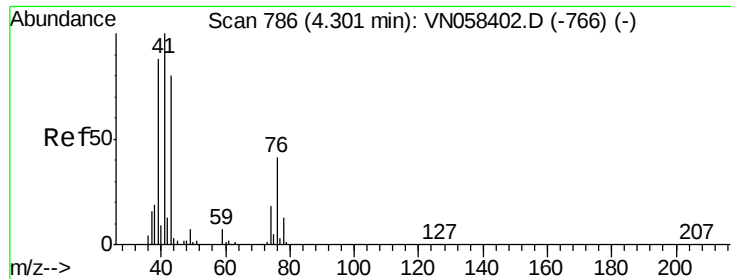
58 0.0 22.4 33.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

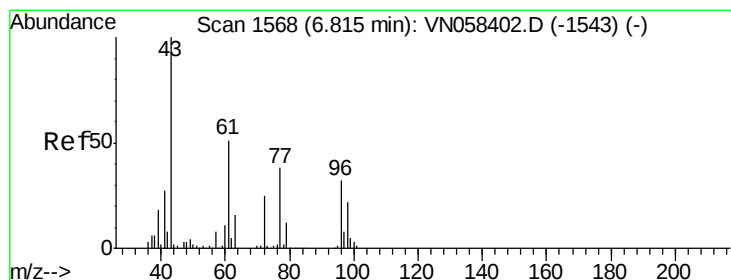
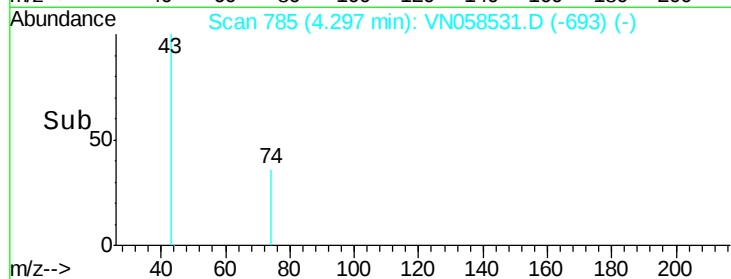
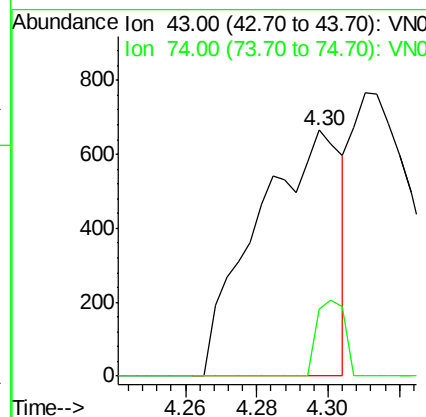
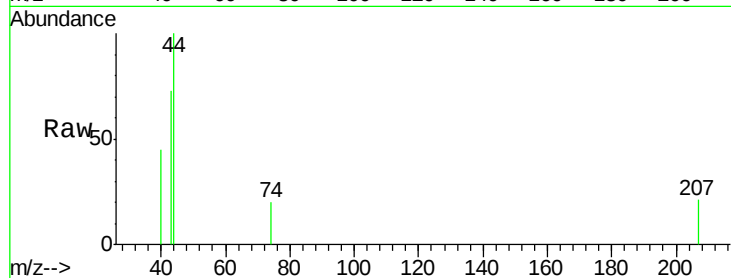




#18
Methyl Acetate
Concen: 0.210 ug/l
RT: 4.30 min Scan# 785
Delta R.T. -0.00 min
Lab File: VN058531.D
Acq: 4 Oct 2019 11:47

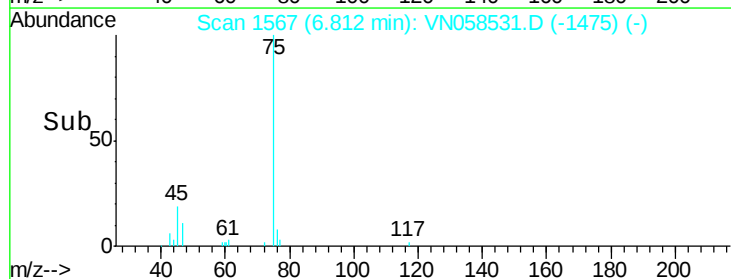
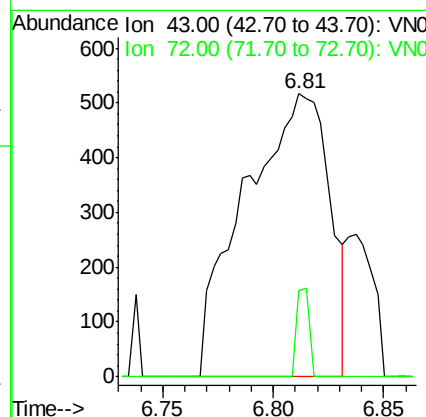
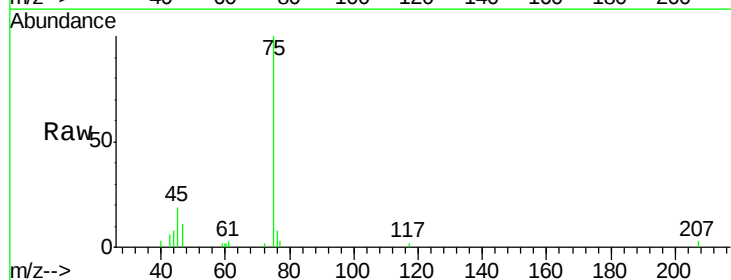
Instrument :
MSVOA_N
ClientSampled :

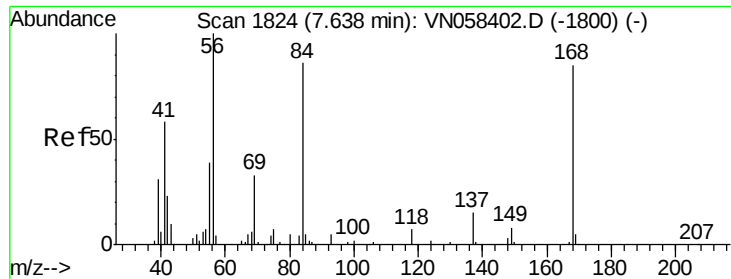
Tot Ion: 43 Resp: 1087
Ion Ratio Lower Upper
43 100
74 10.2 18.0 27.0#



#25
2-Butanone
Concen: 0.488 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VN058531.D
Acq: 4 Oct 2019 11:47

Tgt Ion: 43 Resp: 1378
Ion Ratio Lower Upper
43 100
72 30.4 20.2 30.4#

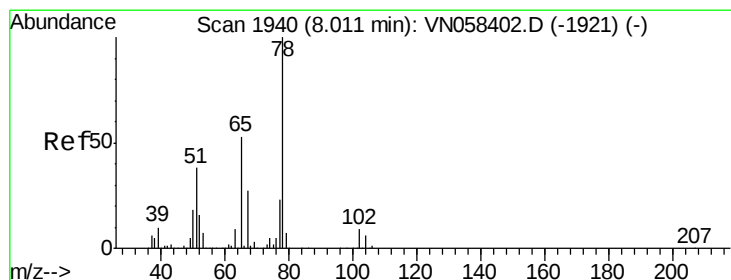
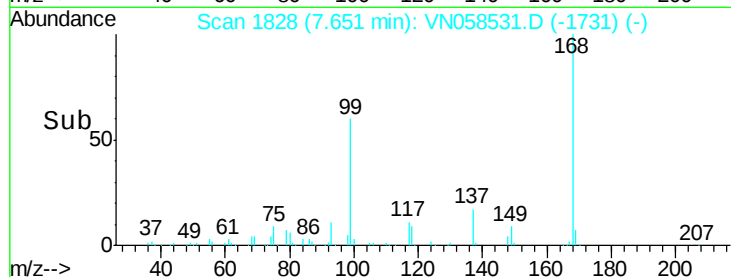
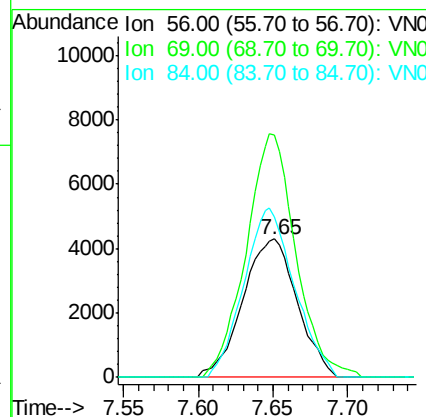
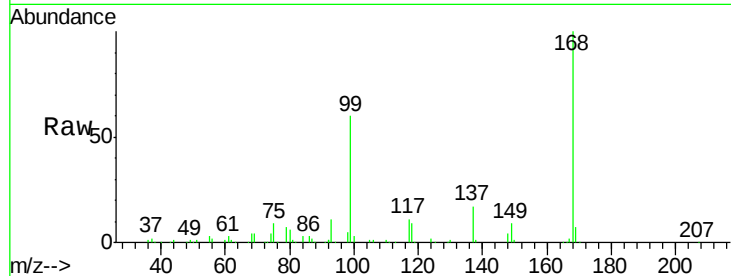




#31
Cyclohexane
Concen: 1.298 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058531.D
Acq: 4 Oct 2019 11:47

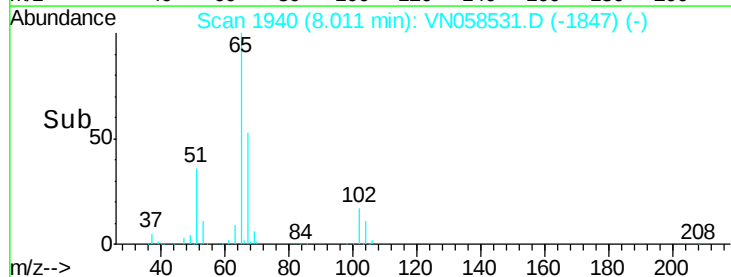
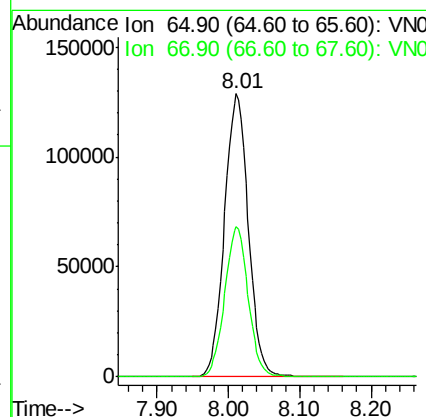
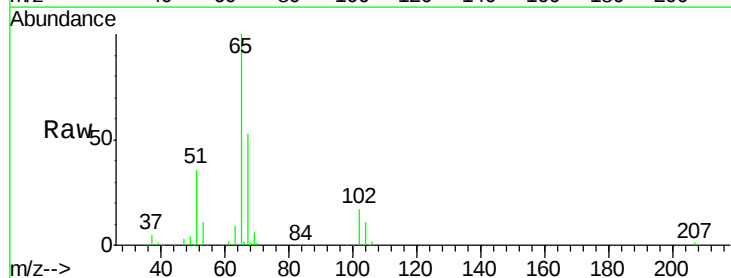
Instrument :
MSVOA_N
ClientSampled :

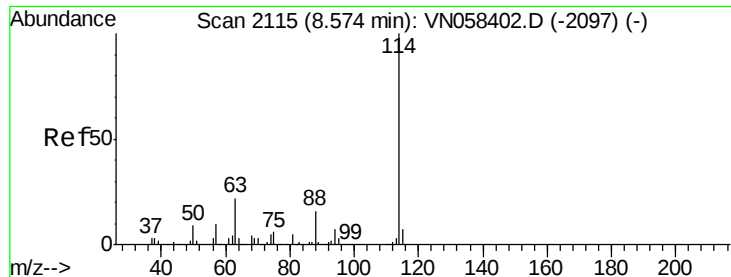
Tot Ion: 56 Resp: 10841
Ion Ratio Lower Upper
56 100
69 174.8 26.2 39.4#
84 115.6 67.6 101.4#



#33
1,2-Dichloroethane-d4
Concen: 49.602 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058531.D
Acq: 4 Oct 2019 11:47

Tgt Ion: 65 Resp: 299419
Ion Ratio Lower Upper
65 100
67 52.1 0.0 102.4

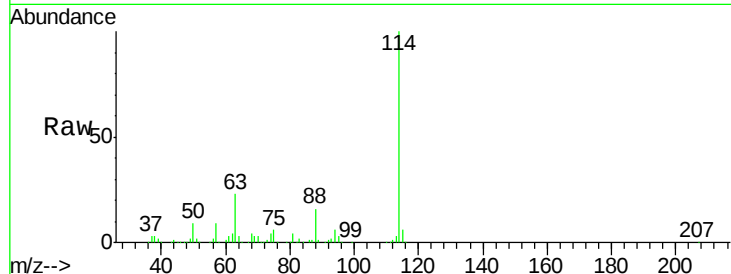




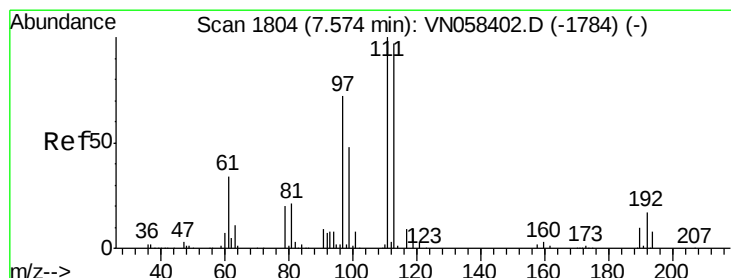
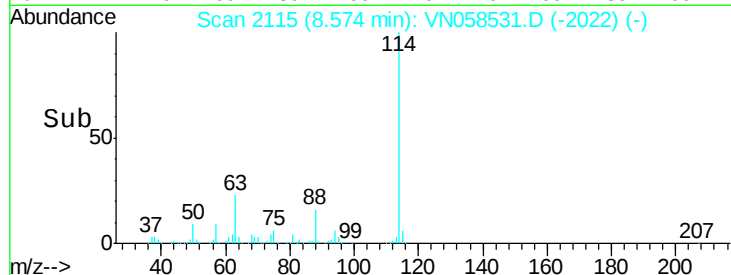
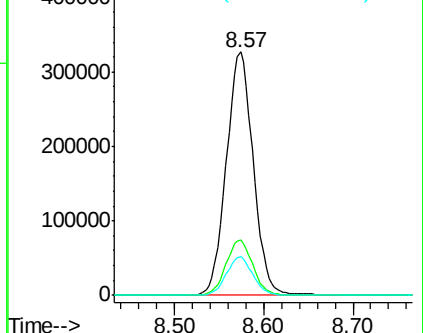
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058531.D
 Acq: 4 Oct 2019 11:47

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	45.0
88	15.8	0.0	32.2

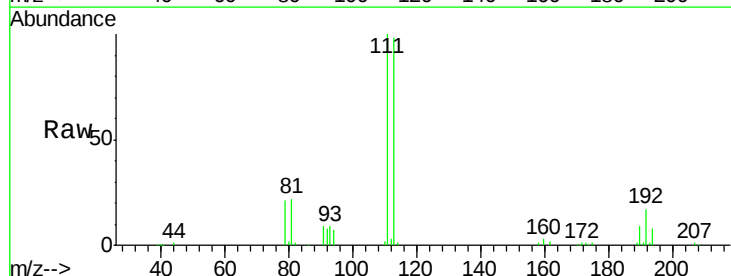


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

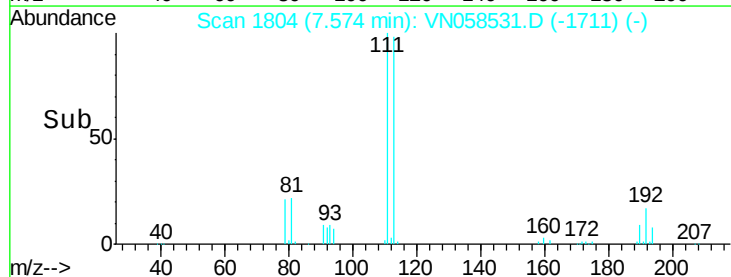
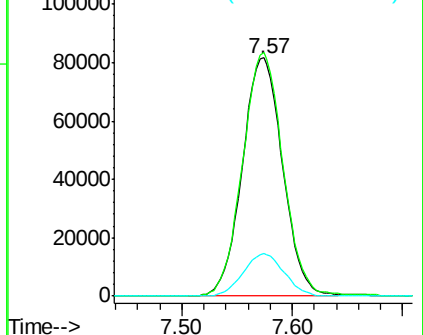


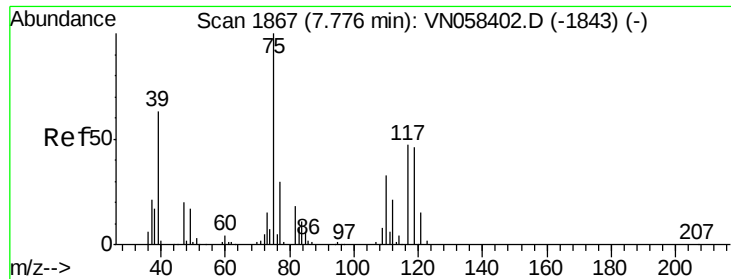
#35
 Dibromofluoromethane
 Concen: 49.437 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058531.D
 Acq: 4 Oct 2019 11:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.4	125.2
192	18.2	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: 5.753 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

Instrument :
MSVOA_N
ClientSampleId :

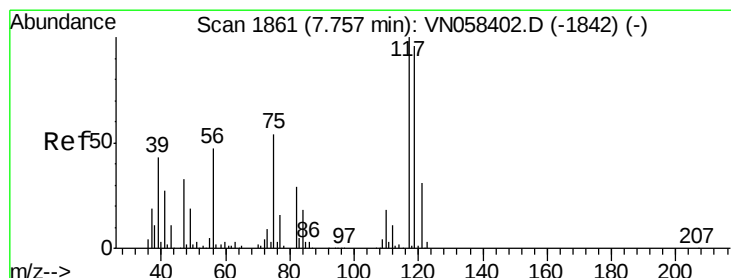
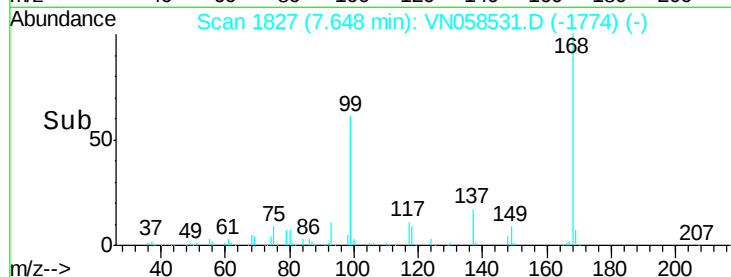
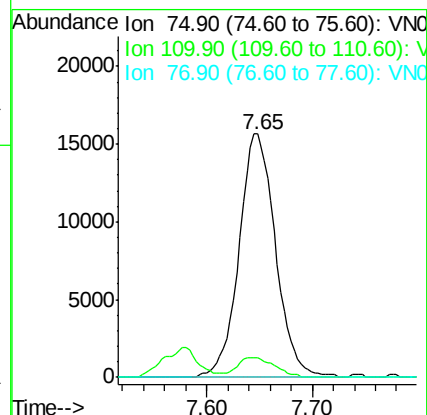
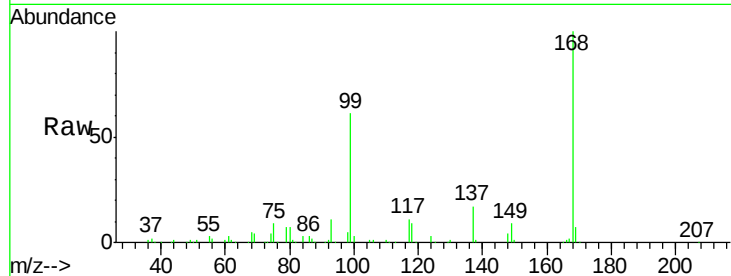
Tot Ion: 75 Resp: 37618

Ion Ratio Lower Upper

75 100

110 8.3 16.4 49.2#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 7.255 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

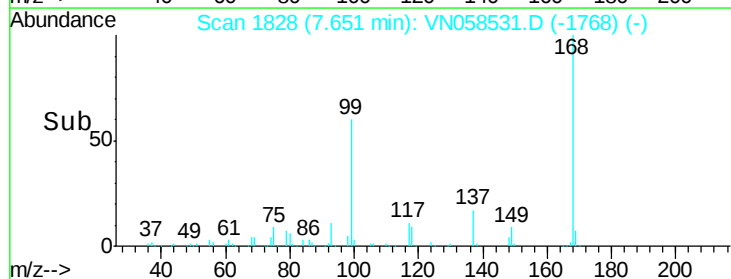
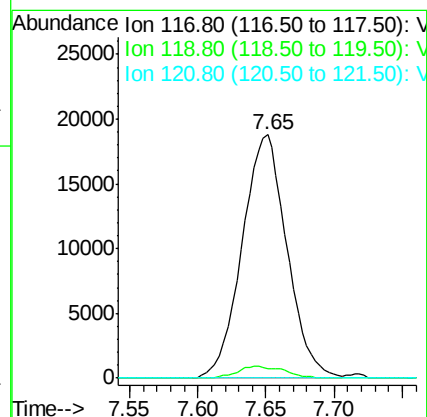
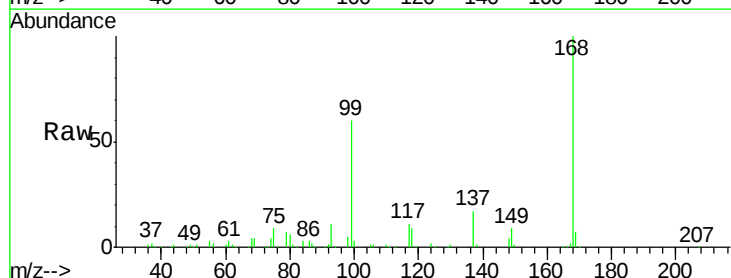
Tgt Ion: 117 Resp: 42820

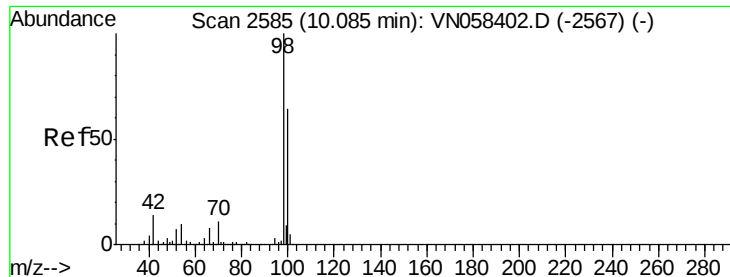
Ion Ratio Lower Upper

117 100

119 3.8 76.6 115.0#

121 0.0 24.7 37.1#





#50

Toluene-d8

Concen: 51.615 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

Instrument :

MSVOA_N

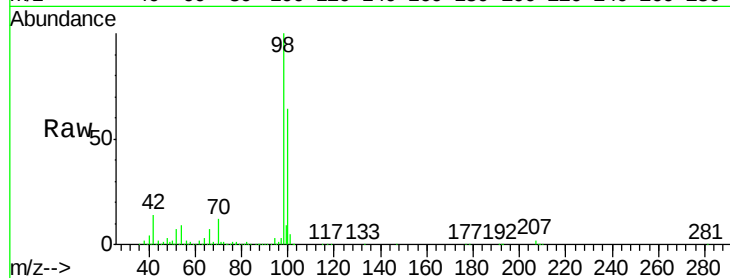
ClientSampleId :

Tot Ion: 98 Resp: 847435

Ion Ratio Lower Upper

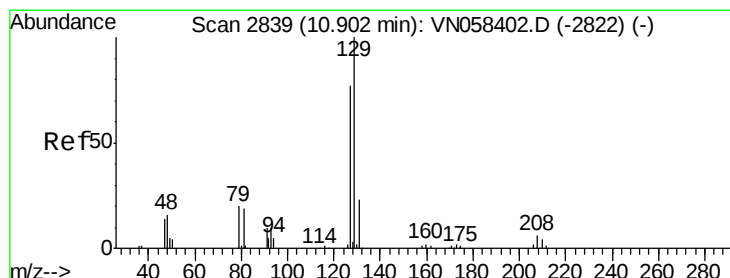
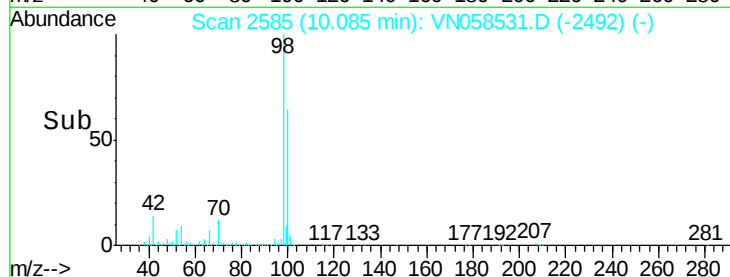
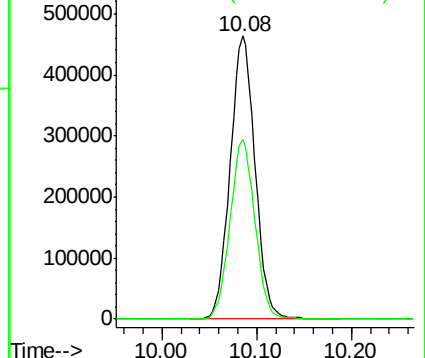
98 100

100 63.6 51.0 76.6



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#60

Dibromochloromethane

Concen: Below Cal

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058531.D

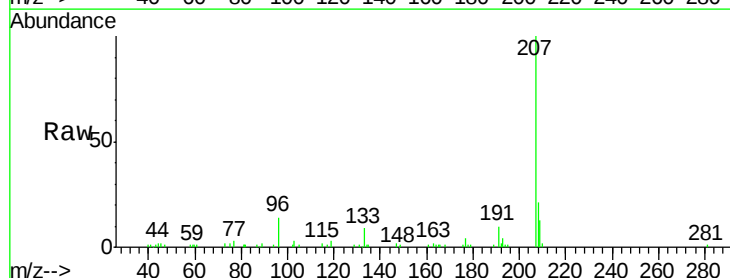
Acq: 4 Oct 2019 11:47

Tgt Ion: 129 Resp: 566

Ion Ratio Lower Upper

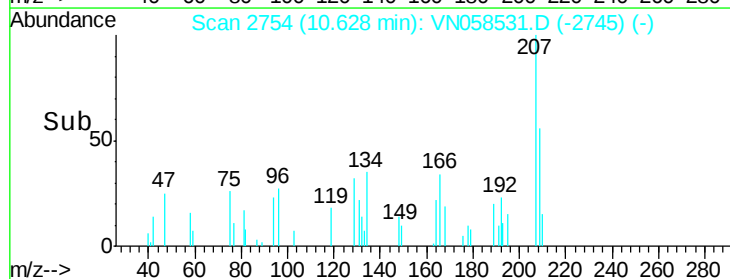
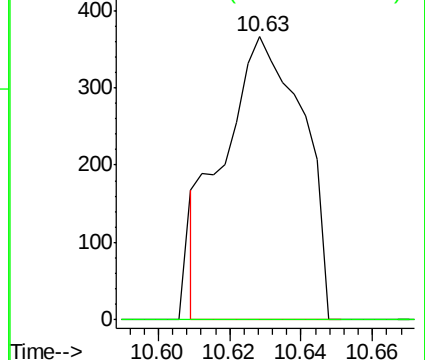
129 100

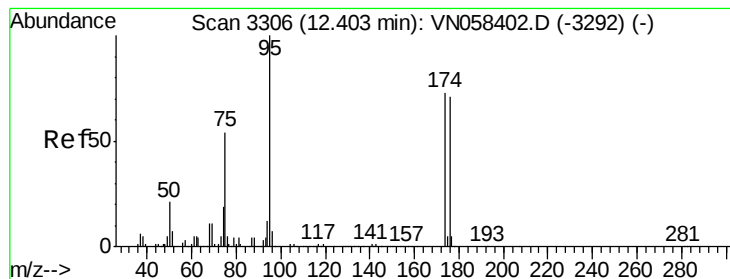
127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 48.140 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

Instrument :

MSVOA_N

ClientSampleId :

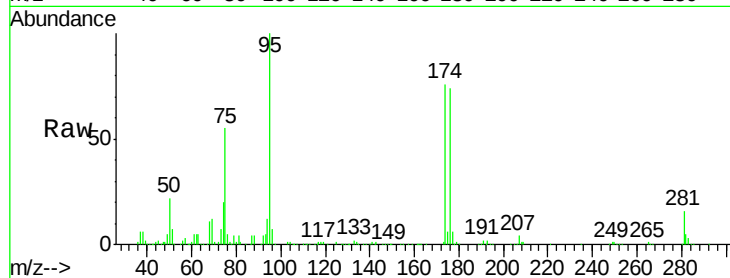
Tot Ion: 95 Resp: 285787

Ion Ratio Lower Upper

95 100

174 75.5 0.0 150.6

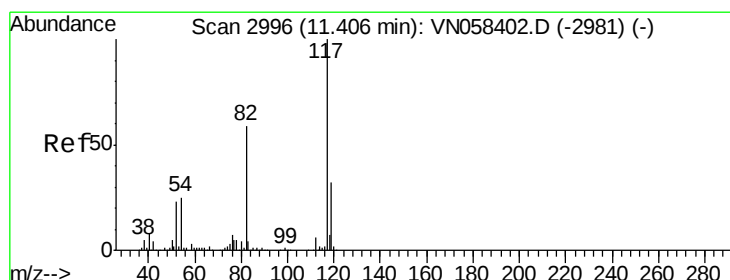
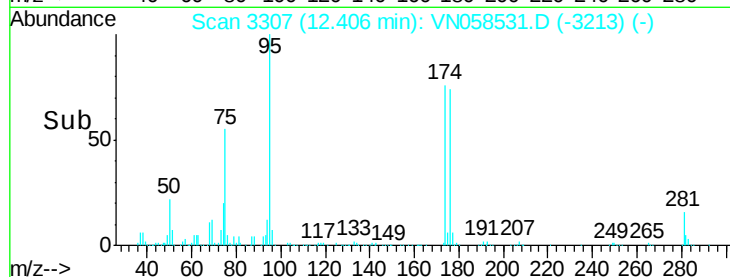
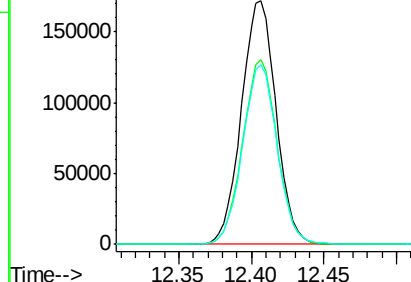
176 73.9 0.0 146.2



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

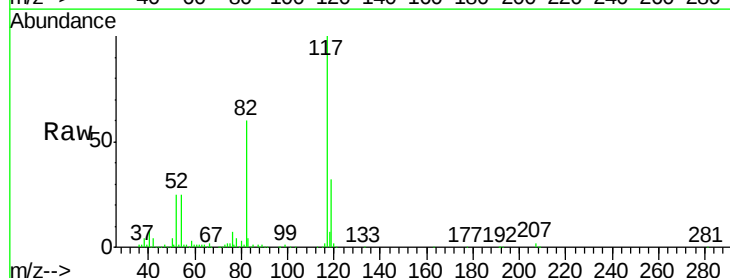
Tgt Ion: 117 Resp: 596683

Ion Ratio Lower Upper

117 100

82 59.6 47.4 71.0

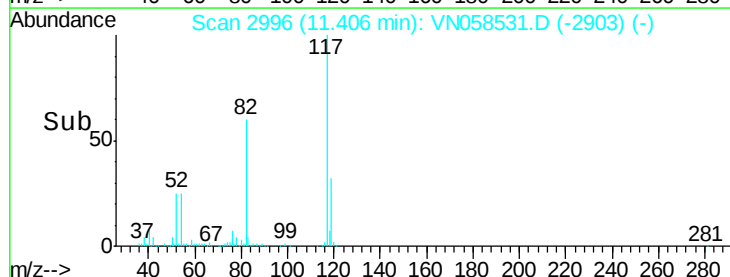
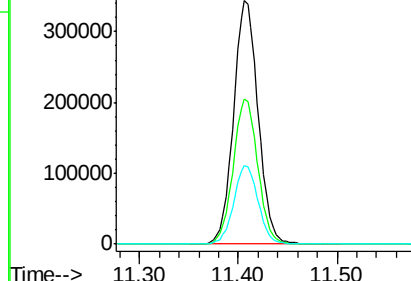
119 32.1 25.5 38.3

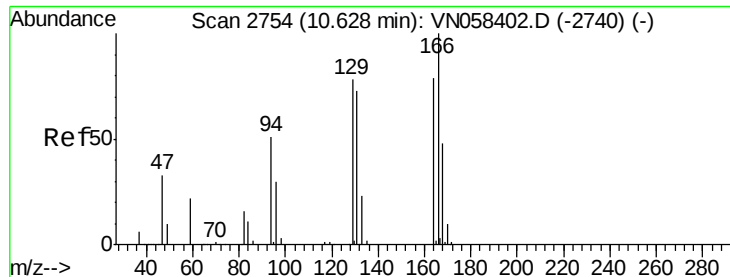


Abundance Ion 116.90 (116.60 to 117.60): VN058402.D (-2981) (-)

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

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

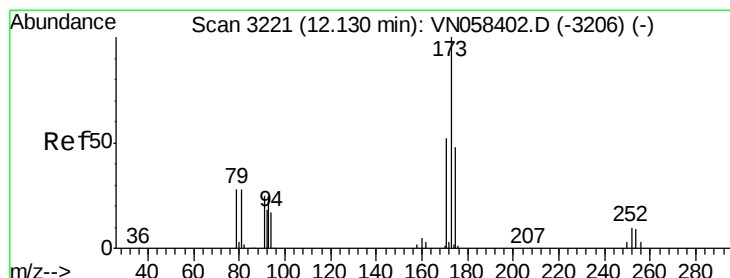
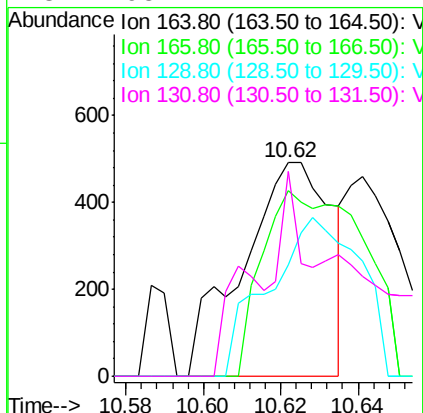
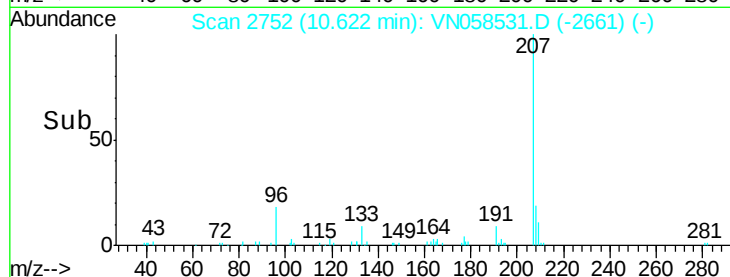
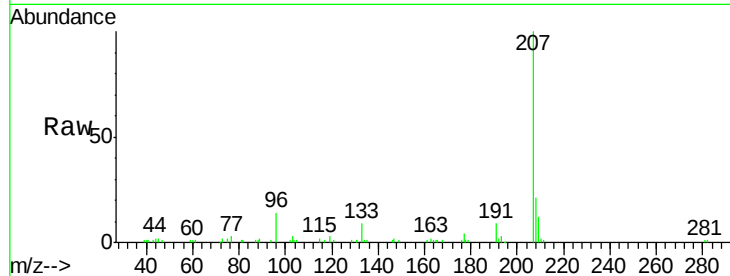




#64
Tetrachloroethene
Concen: 0.207 ug/l
RT: 10.62 min Scan# 2752
Delta R.T. -0.01 min
Lab File: VN058531.D
Acq: 4 Oct 2019 11:47

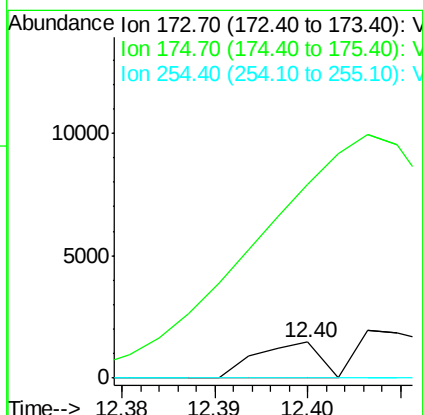
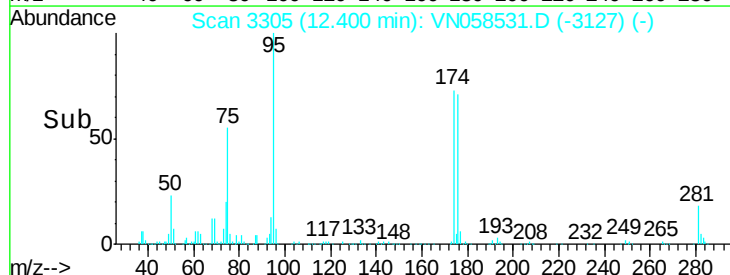
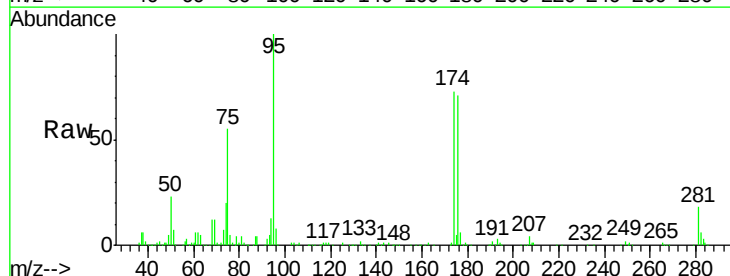
Instrument :
MSVOA_N
ClientSampleId :

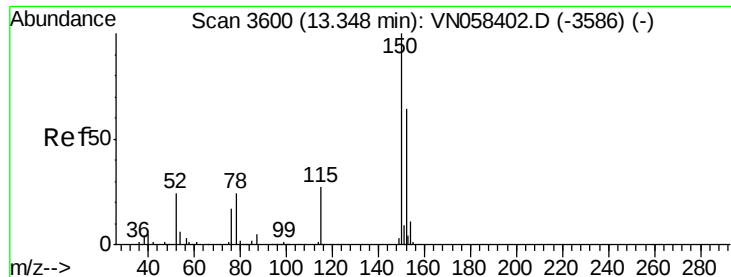
Tot Ion:164 Resp: 786
Ion Ratio Lower Upper
164 100
166 86.6 101.1 151.7#
129 52.0 79.2 118.8#
131 95.7 74.1 111.1



#71
Bromoform
Concen: 0.944 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN058531.D
Acq: 4 Oct 2019 11:47

Tgt Ion:173 Resp: 699
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

Instrument :

MSVOA_N

ClientSampleId :

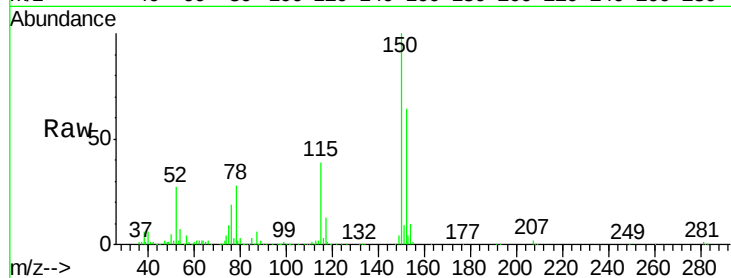
Tot Ion:152 Resp: 255249

Ion Ratio Lower Upper

152 100

115 61.2 30.0 90.0

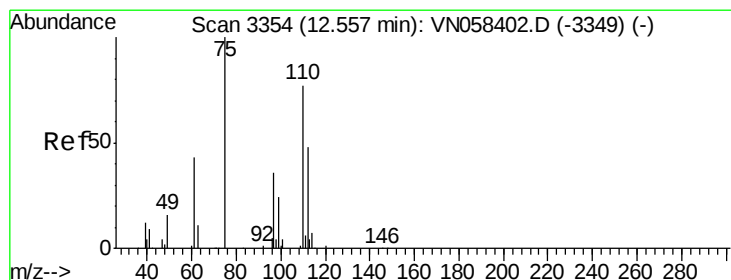
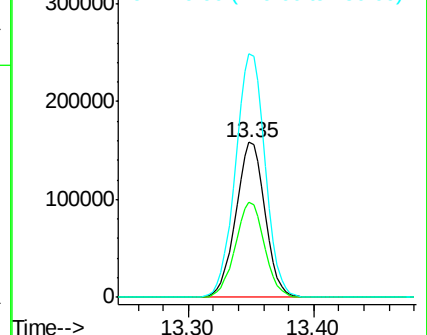
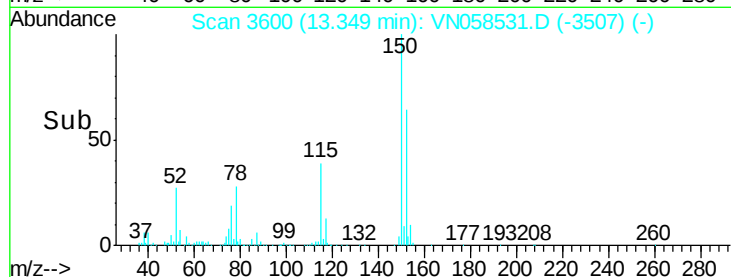
150 159.9 0.0 348.2



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: 34.126 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058531.D

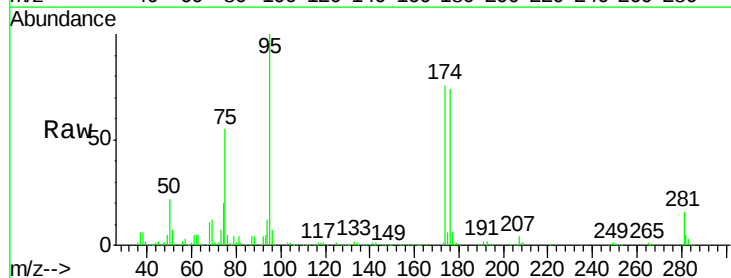
Acq: 4 Oct 2019 11:47

Tgt Ion: 75 Resp: 159102

Ion Ratio Lower Upper

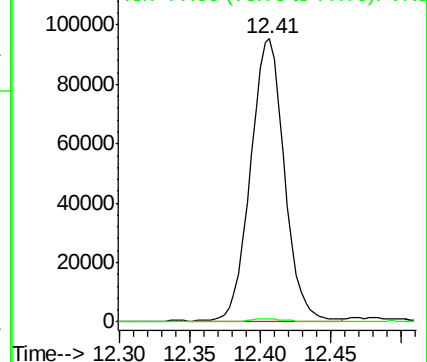
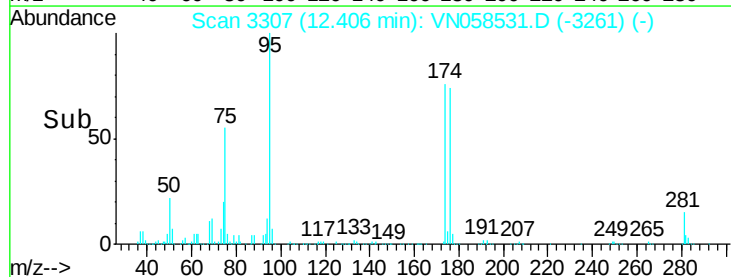
75 100

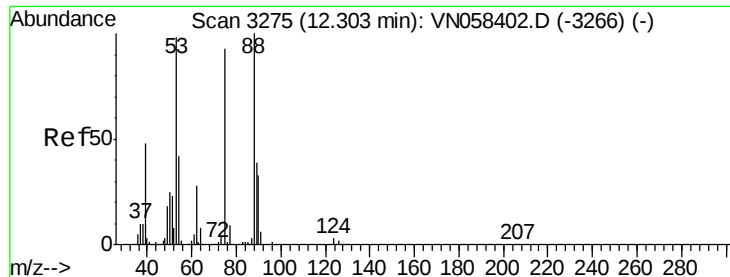
77 1.4 0.0 0.0#



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: 103.646 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

Instrument :

MSVOA_N

ClientSampled :

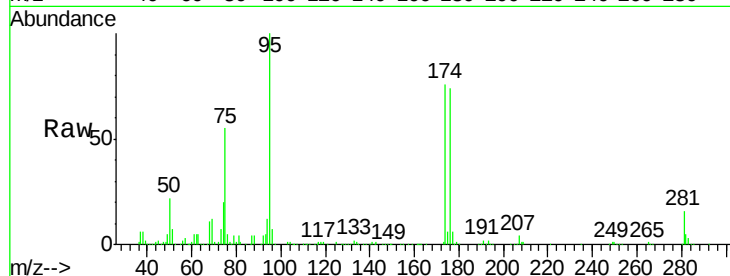
Tot Ion: 75 Resp: 159102

Ion Ratio Lower Upper

75 100

53 0.0 85.4 128.0#

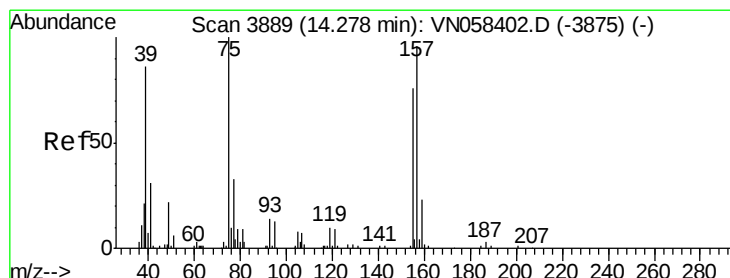
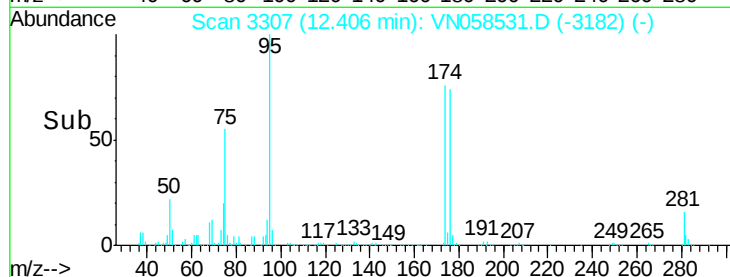
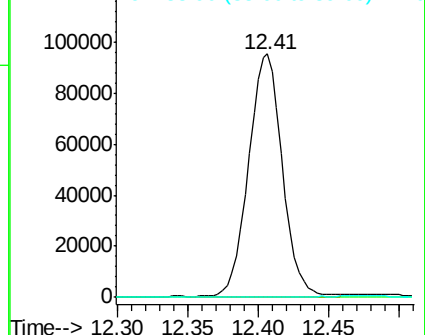
89 0.2 35.0 52.4#



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: 0.375 ug/l

RT: 14.29 min Scan# 3893

Delta R.T. 0.01 min

Lab File: VN058531.D

Acq: 4 Oct 2019 11:47

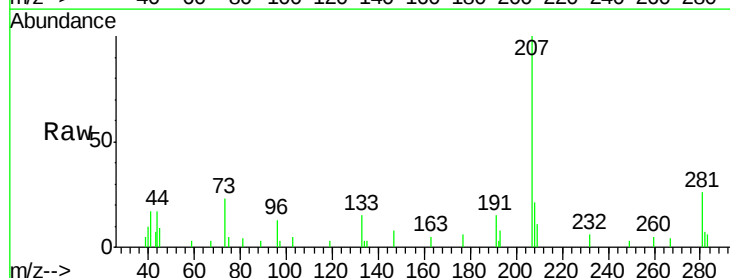
Tgt Ion: 75 Resp: 369

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

