

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058219.D
 Acq On : 19 Sep 2019 21:06
 Operator : JC/SP
 Sample : K4896-14
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

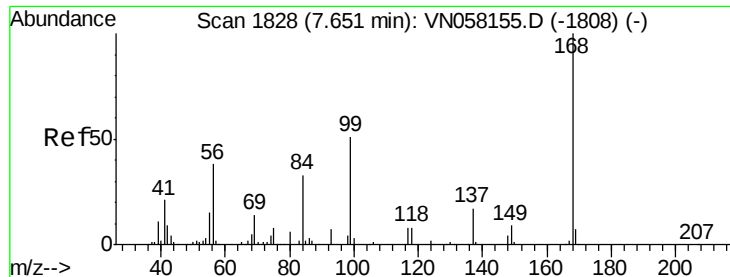
Quant Time: Sep 20 04:25:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	513515	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	836872	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	709911	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	286687	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	372146	52.03	ug/l	0.00
Spiked Amount			Recovery	=	104.06%	
35) Dibromofluoromethane	7.57	113	254759	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	
50) Toluene-d8	10.08	98	1051337	53.04	ug/l	0.00
Spiked Amount			Recovery	=	106.08%	
62) 4-Bromofluorobenzene	12.41	95	333677	45.32	ug/l	0.00
Spiked Amount			Recovery	=	90.64%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1070	Below Cal		98
5) Bromomethane	2.54	94	166	0.809 ug/l #		4
6) Chloroethane	2.64	64	99	Below Cal #		44
12) 1,1-Dichloroethene	3.71	96	175	Below Cal #		1
17) Carbon Disulfide	4.02	76	135	0.301 ug/l #		74
20) Methylene Chloride	4.52	84	116	Below Cal #		45
27) cis-1,2-Dichloroethene	6.82	96	1059	0.203 ug/l #		13
31) Cyclohexane	7.65	56	13172	Below Cal #		16
36) 1,1-Dichloropropene	7.65	75	44079	7.304 ug/l #		50
38) Carbon Tetrachloride	7.65	117	52129	8.593 ug/l #		14
41) Methacrylonitrile	7.16	41	91	0.939 ug/l #		100
43) Isopropyl Acetate	8.24	43	17025	1.455 ug/l #		57
44) Trichloroethene	8.82	130	21517	4.770 ug/l		100
60) Dibromochloromethane	10.63	129	3927	0.796 ug/l #		11
64) Tetrachloroethene	10.63	164	4217	1.219 ug/l		90
71) Bromoform	12.40	173	959	3.860 ug/l #		1
76) 1,2,3-Trichloropropane	12.41	75	181883	35.449 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.41	75	181883	99.090 ug/l #		5

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

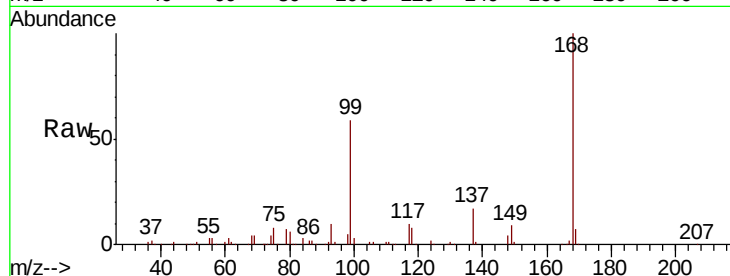
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 513515

Ion Ratio Lower Upper

168 100

99 59.2 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

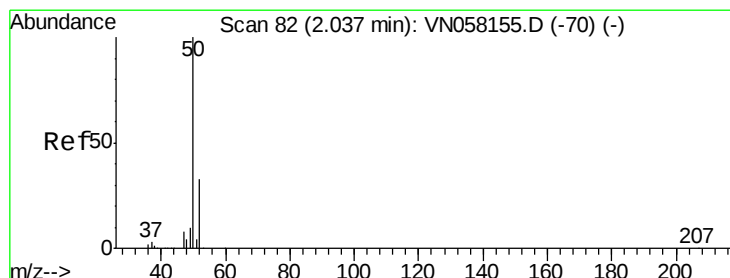
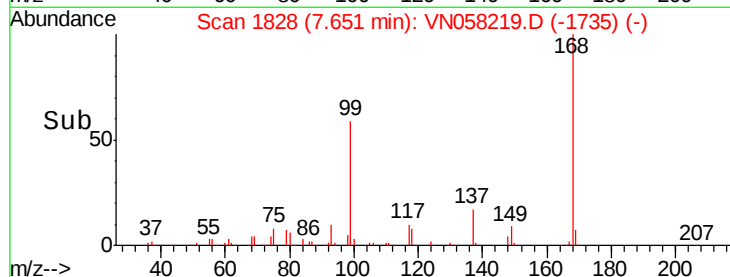
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058219.D

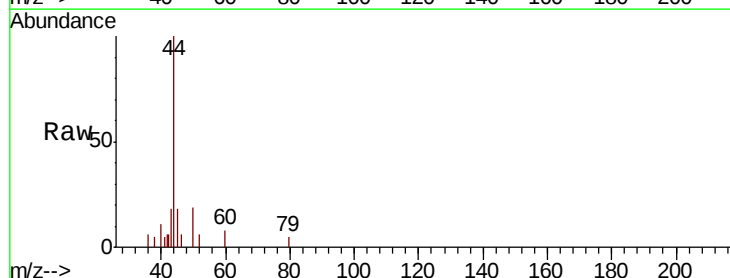
Acq: 19 Sep 2019 21:06

Tgt Ion: 50 Resp: 1070

Ion Ratio Lower Upper

50 100

52 31.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

800

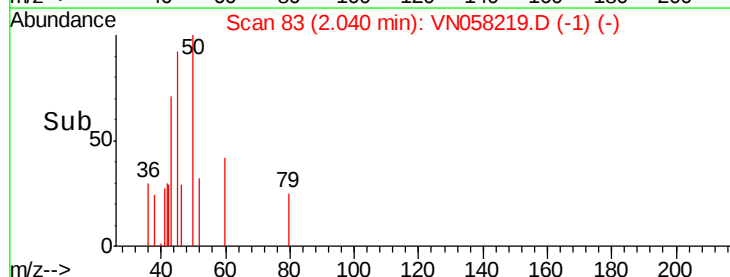
600

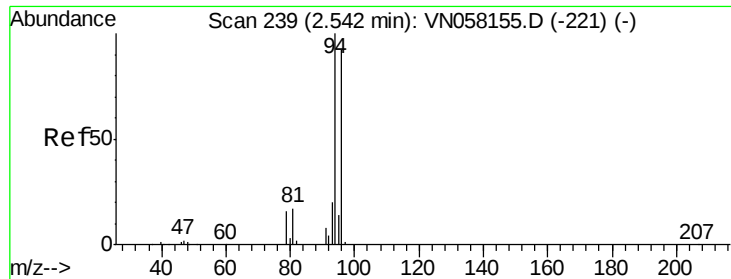
400

200

0

Time-->





#5

Bromomethane

Concen: 0.809 ug/l

RT: 2.54 min Scan# 240

Delta R.T. 0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

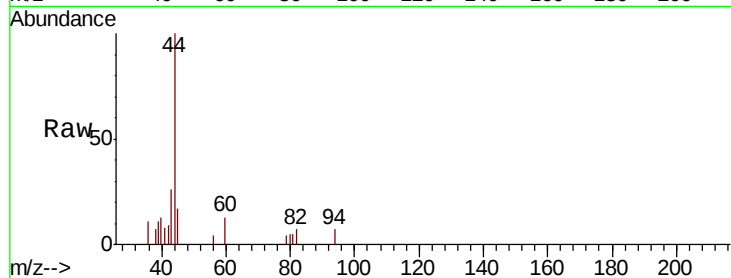
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 94 Resp: 166

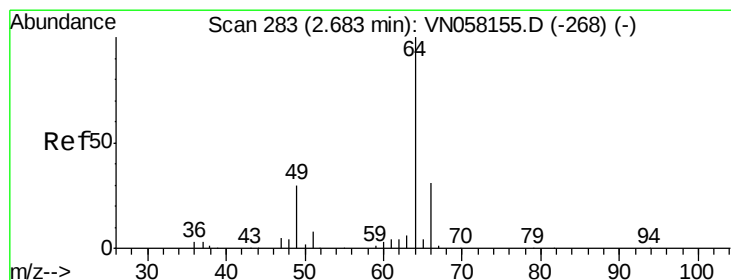
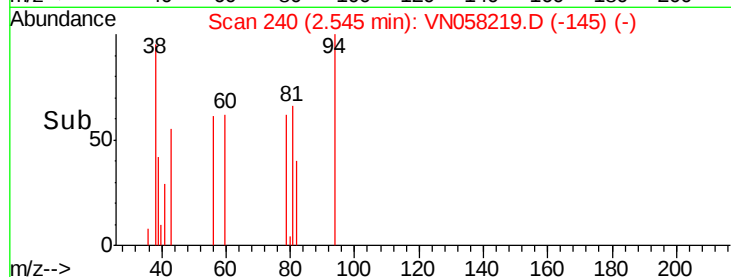
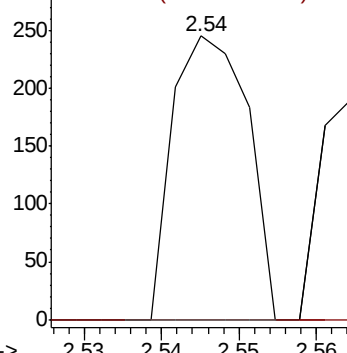
Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0
Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.64 min Scan# 271

Delta R.T. -0.04 min

Lab File: VN058219.D

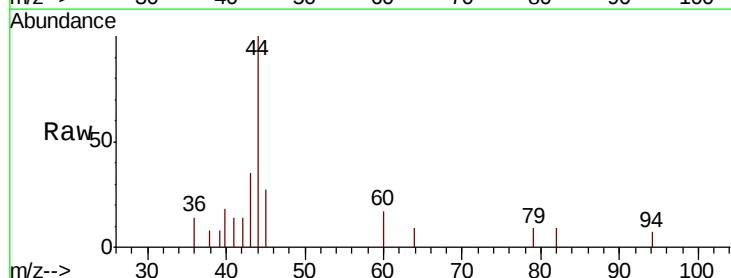
Acq: 19 Sep 2019 21:06

Tgt Ion: 64 Resp: 99

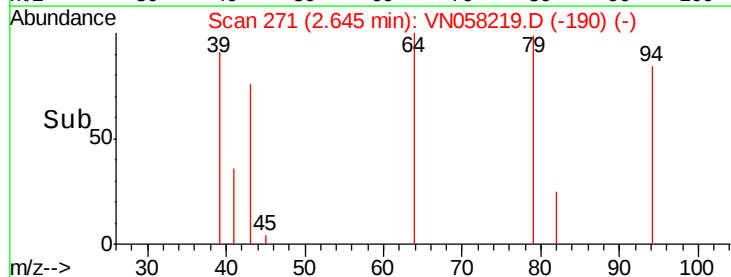
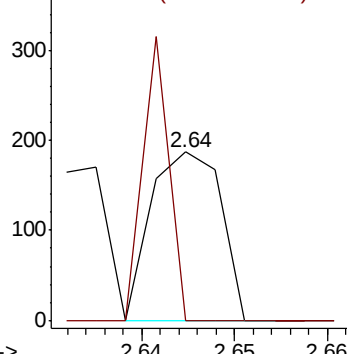
Ion Ratio Lower Upper

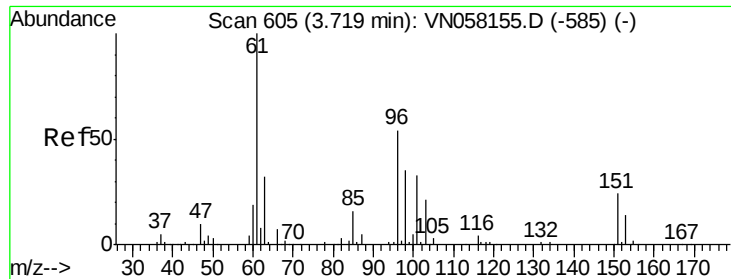
64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0
Ion 65.90 (65.60 to 66.60): VN0

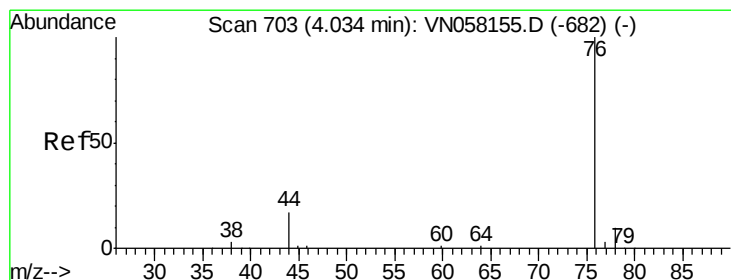
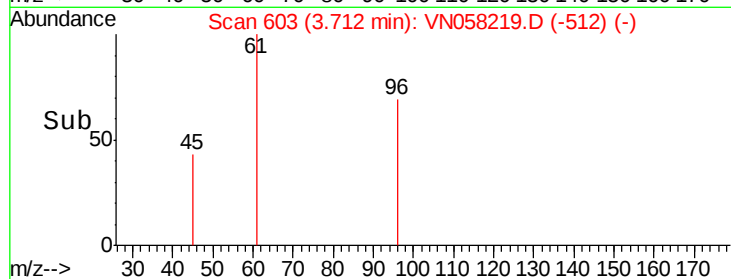
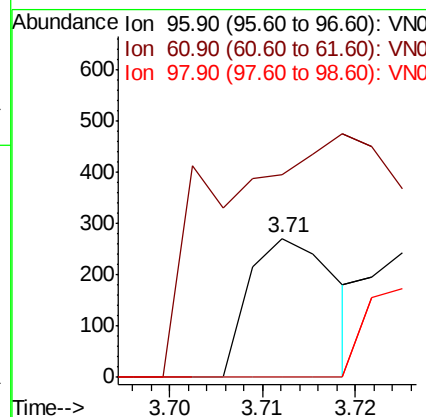
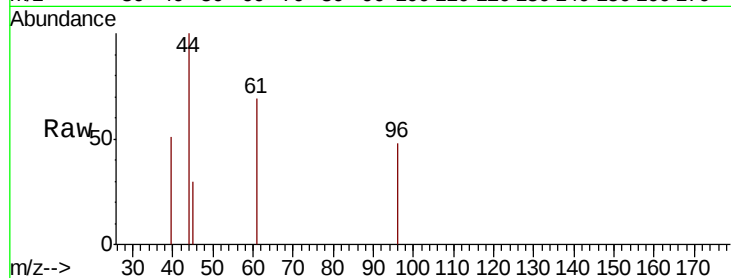




#12
 1,1-Dichloroethene
 Concen: Below Cal
 RT: 3.71 min Scan# 603
 Delta R.T. -0.01 min
 Lab File: VN058219.D
 Acq: 19 Sep 2019 21:06

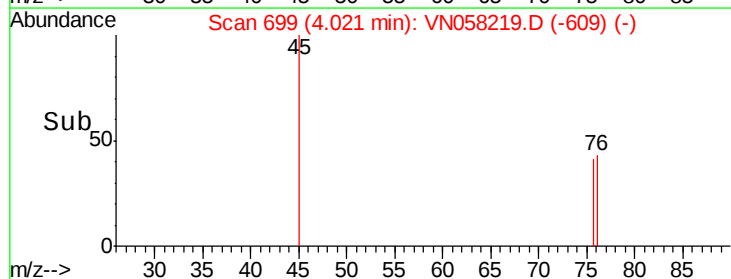
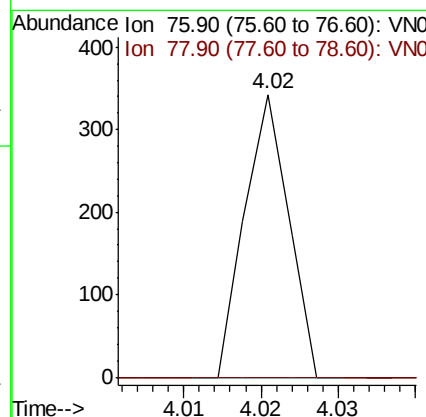
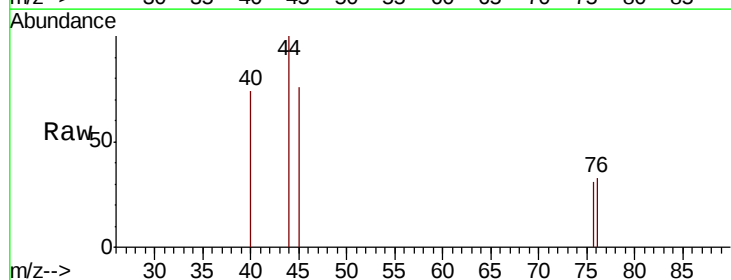
Instrument :
 MSVOA_N
 ClientSampled :

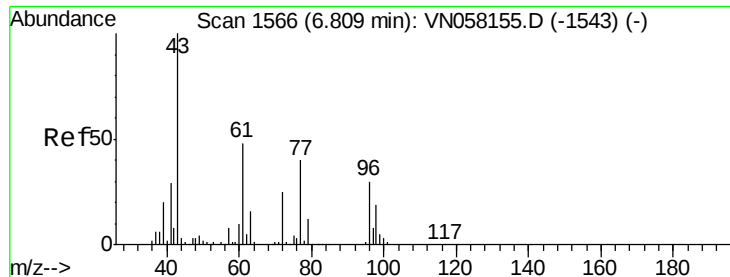
Tot Ion	Ratio	Lower	Upper
96	100		
61	0.0	149.5	224.3#
98	0.0	52.4	78.6#



#17
 Carbon Disulfide
 Concen: 0.301 ug/l
 RT: 4.02 min Scan# 699
 Delta R.T. -0.01 min
 Lab File: VN058219.D
 Acq: 19 Sep 2019 21:06

Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	7.7	11.5#





#27

cis-1,2-Dichloroethene

Concen: 0.203 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :
MSVOA_N
ClientSampleId :

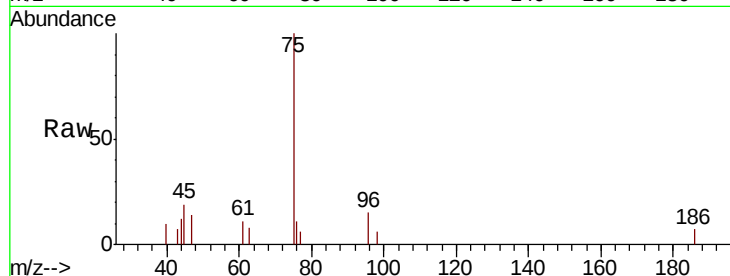
Tot Ion: 96 Resp: 1059

Ion Ratio Lower Upper

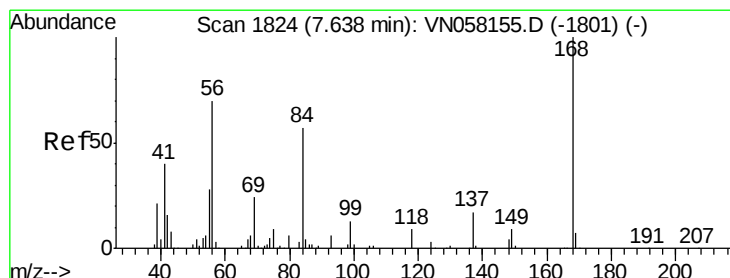
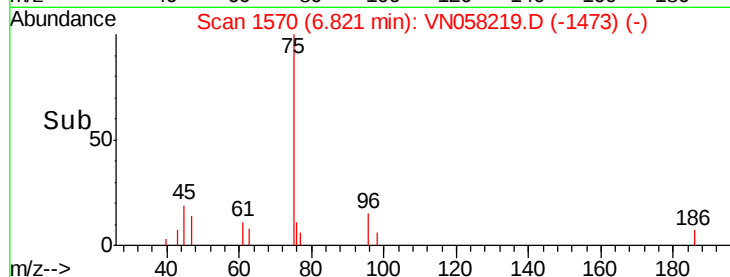
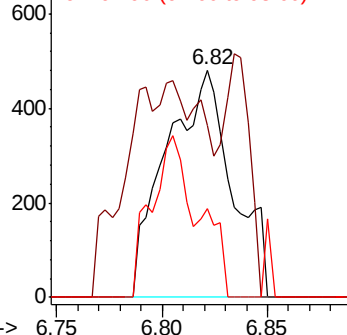
96 100

61 42.6 0.0 319.0

98 0.0 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 97.90 (97.60 to 98.60): VNO



#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

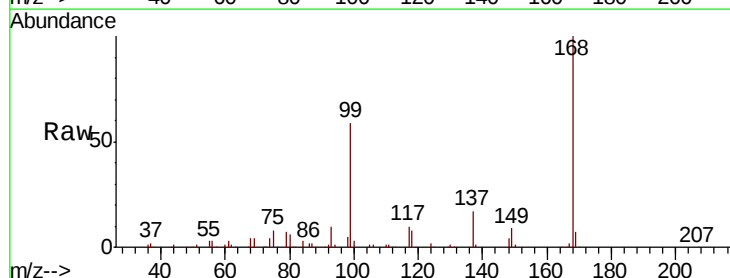
Tgt Ion: 56 Resp: 13172

Ion Ratio Lower Upper

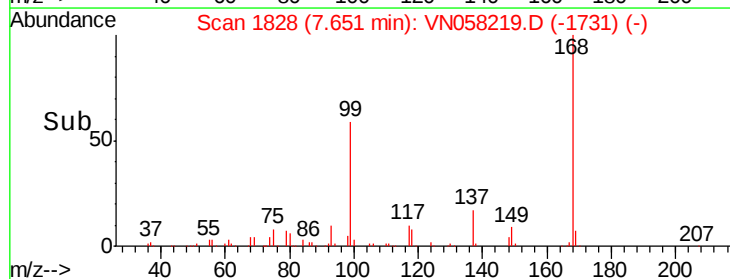
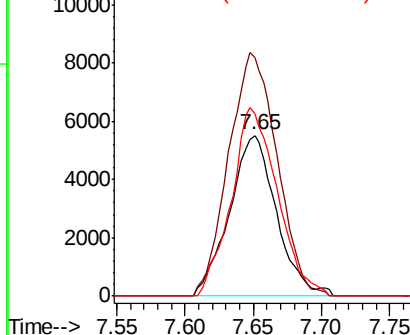
56 100

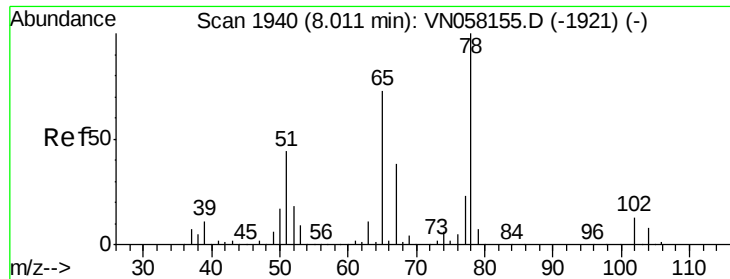
69 148.2 27.3 40.9#

84 112.9 65.0 97.4#



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

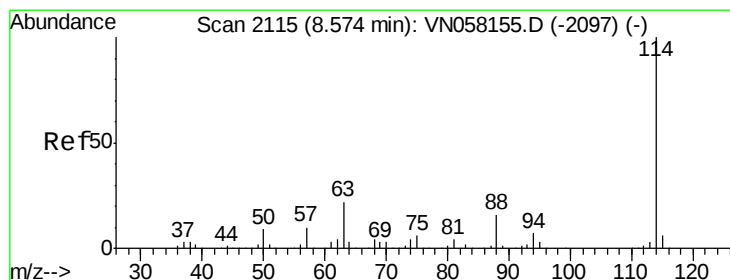
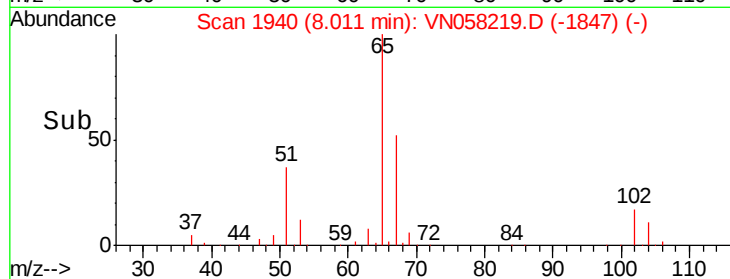
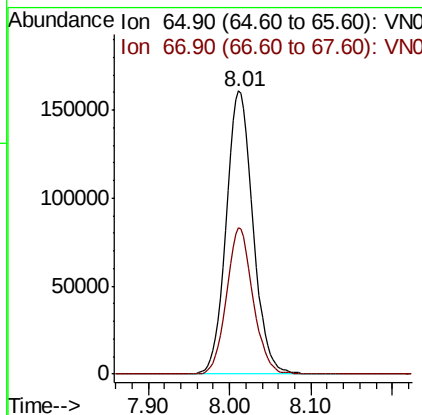
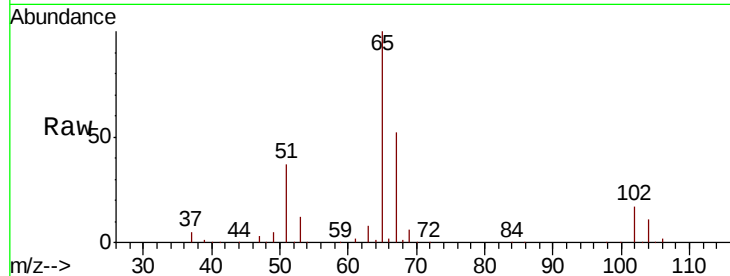




#33
 1,2-Dichloroethane-d4
 Concen: 52.032 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058219.D
 Acq: 19 Sep 2019 21:06

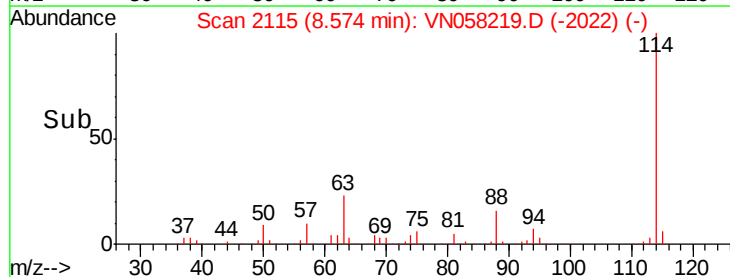
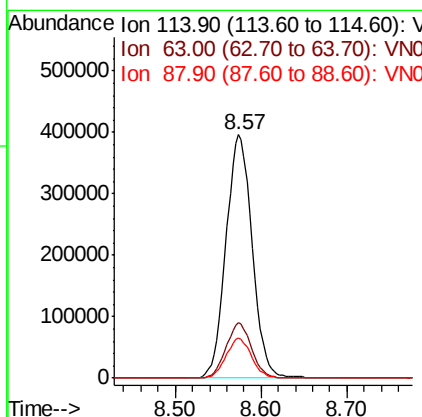
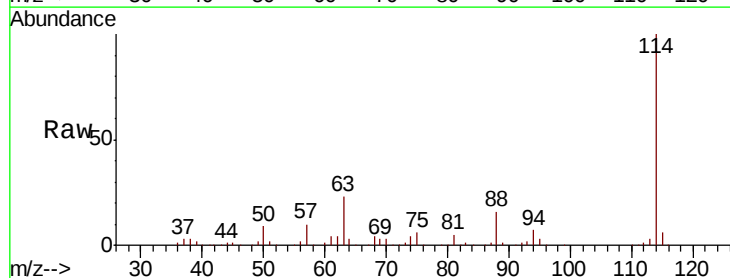
Instrument :
 MSVOA_N
 ClientSampleId :

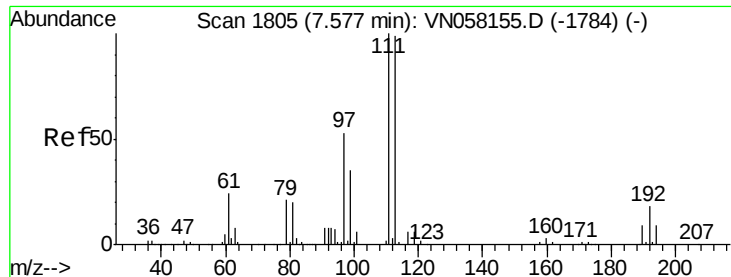
Tot Ion: 65 Resp: 372146
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058219.D
 Acq: 19 Sep 2019 21:06

Tgt Ion: 114 Resp: 836872
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 44.2
 88 16.3 0.0 31.6

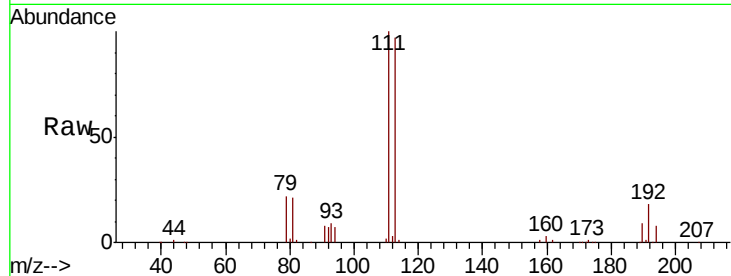




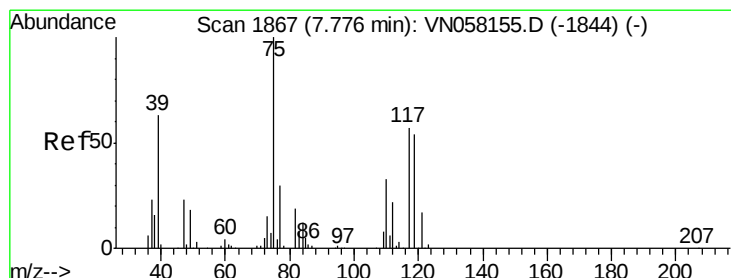
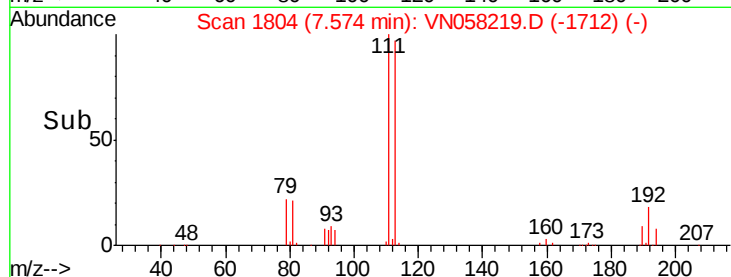
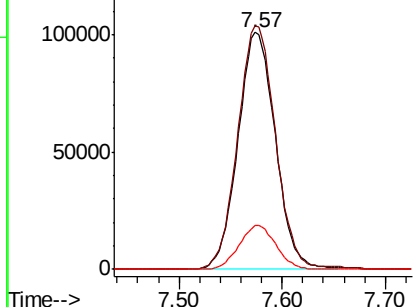
#35
 Dibromofluoromethane
 Concen: 50.076 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058219.D
 Acq: 19 Sep 2019 21:06

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:113 Resp: 254759
 Ion Ratio Lower Upper
 113 100
 111 103.4 81.8 122.6
 192 18.2 14.5 21.7

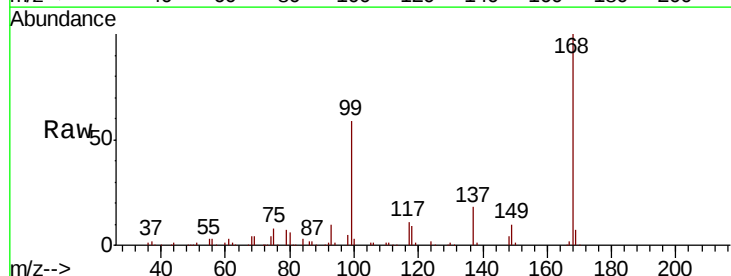


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

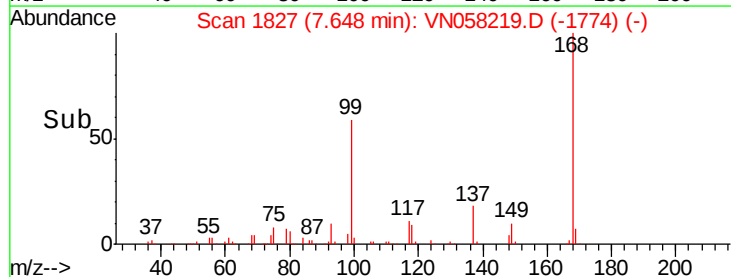
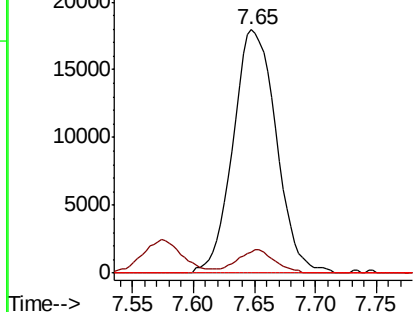


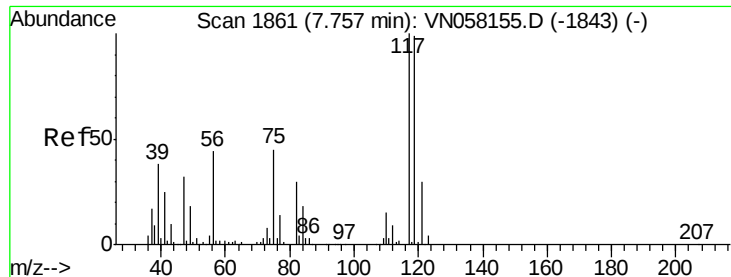
#36
 1,1-Dichloropropene
 Concen: 7.304 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058219.D
 Acq: 19 Sep 2019 21:06

Tgt Ion: 75 Resp: 44079
 Ion Ratio Lower Upper
 75 100
 110 8.2 16.6 49.7#
 77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 8.593 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

ClientSampled :

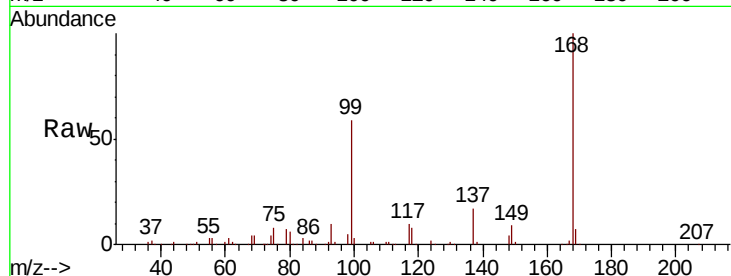
Tot Ion:117 Resp: 52129

Ion Ratio Lower Upper

117 100

119 4.3 78.6 117.8#

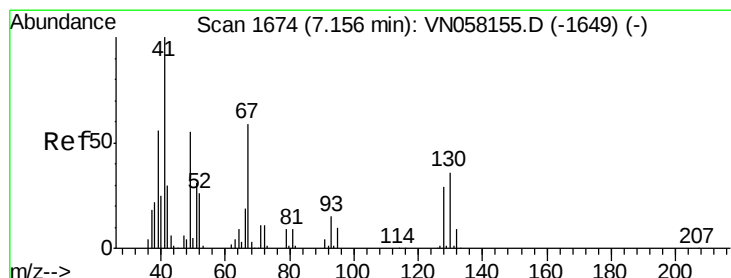
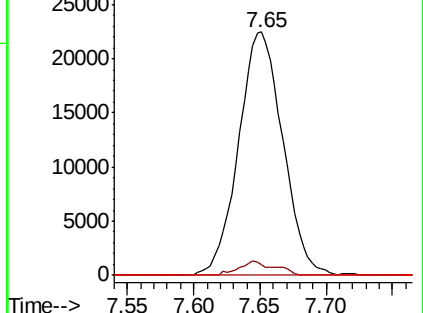
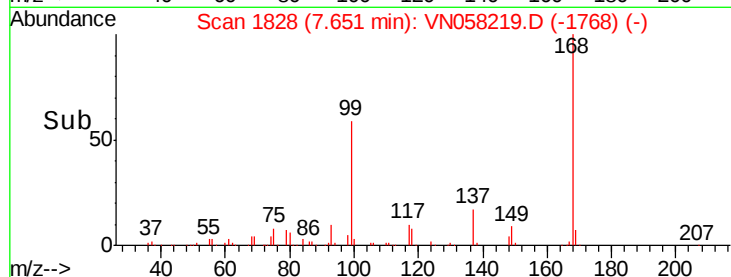
121 0.0 24.1 36.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 0.939 ug/l

RT: 7.16 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Tgt Ion: 41 Resp: 91

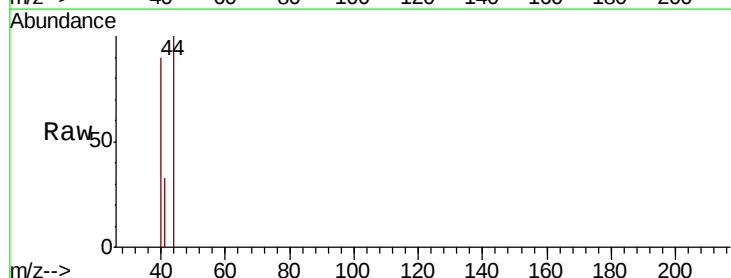
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

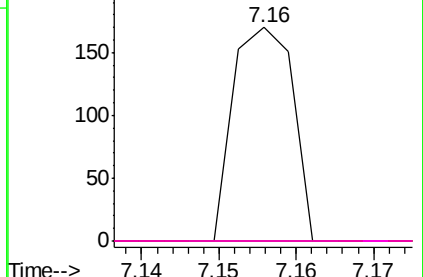
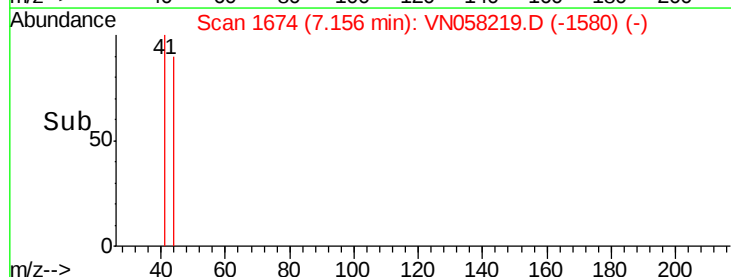


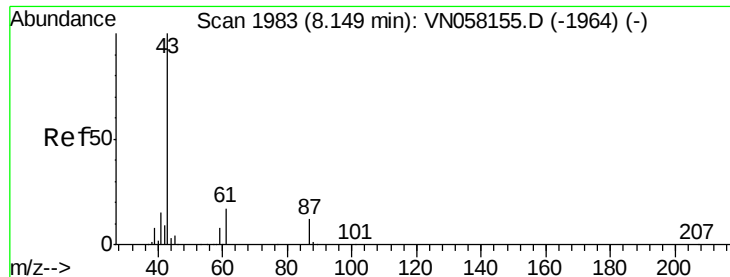
Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

Ion 67.00 (66.70 to 67.70): VNC

Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 1.455 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.09 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

ClientSampled :

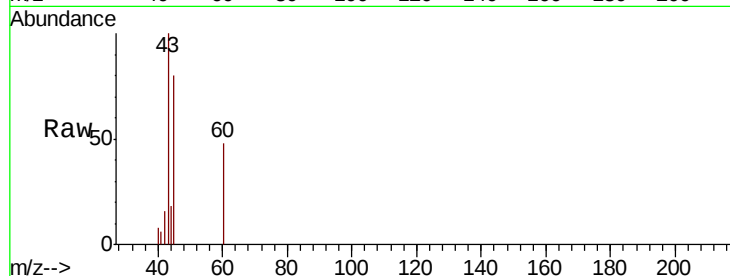
Tot Ion: 43 Resp: 17025

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

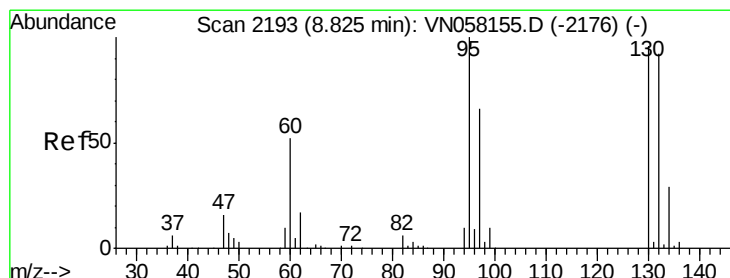
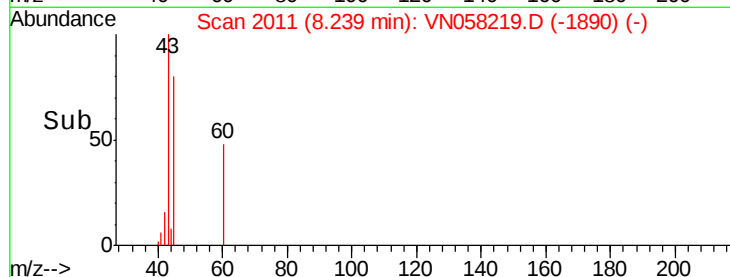
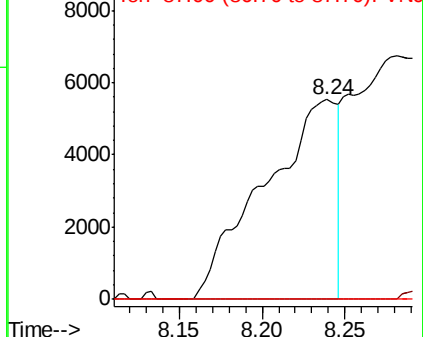
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN058219.D (-2011) (-)

Ion 61.00 (60.70 to 61.70): VN058219.D (-2011) (-)

Ion 87.00 (86.70 to 87.70): VN058219.D (-2011) (-)



#44

Trichloroethene

Concen: 4.770 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. -0.00 min

Lab File: VN058219.D

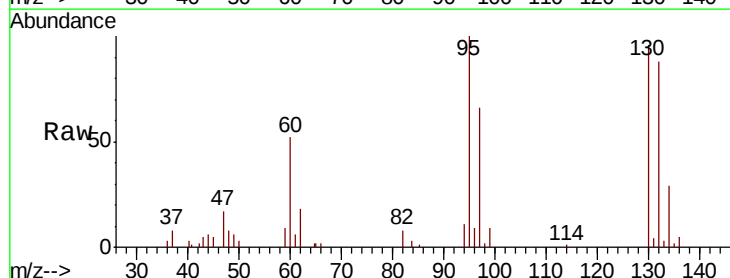
Acq: 19 Sep 2019 21:06

Tgt Ion: 130 Resp: 21517

Ion Ratio Lower Upper

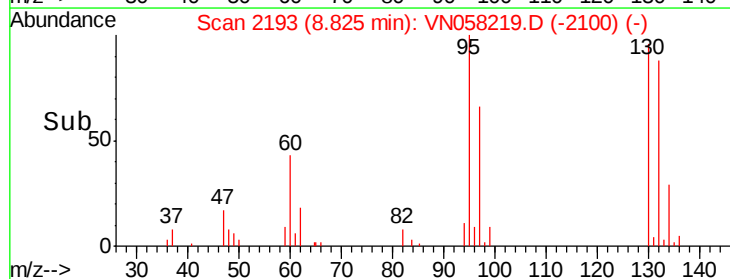
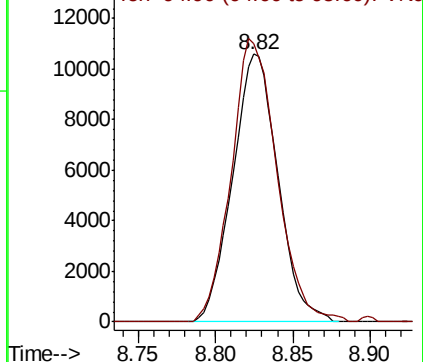
130 100

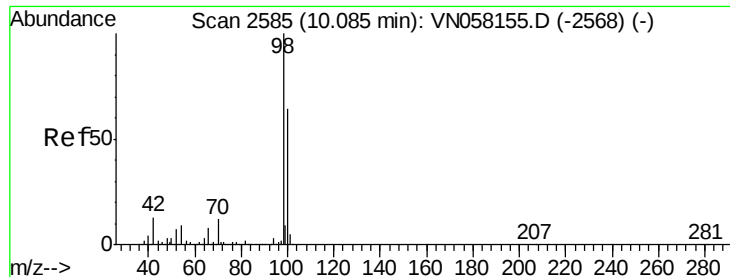
95 104.1 0.0 207.8



Abundance Ion 129.80 (129.50 to 130.50): VN058219.D (-2193) (-)

Ion 94.90 (94.60 to 95.60): VN058219.D (-2193) (-)





#50

Toluene-d8

Concen: 53.039 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

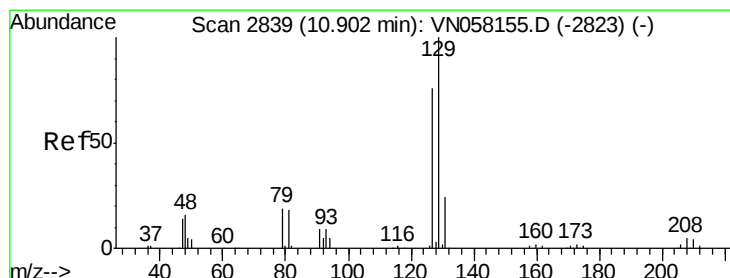
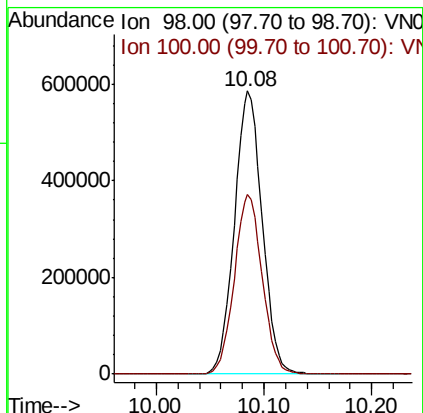
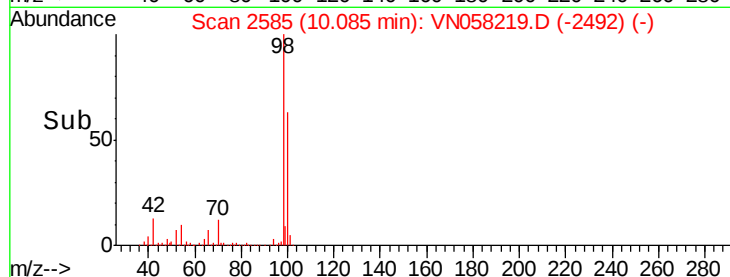
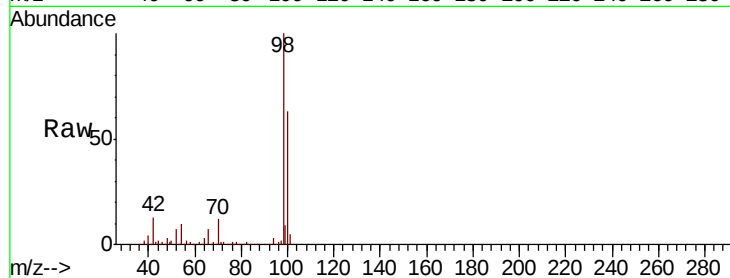
ClientSampled :

Tot Ion: 98 Resp: 1051337

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



#60

Dibromochloromethane

Concen: 0.796 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058219.D

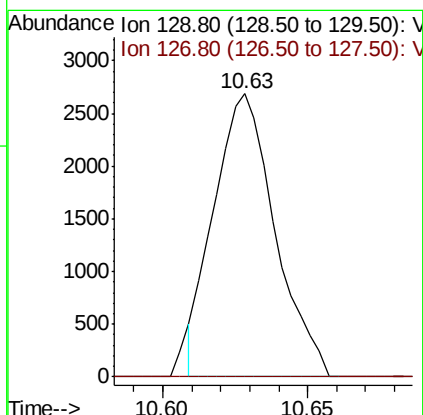
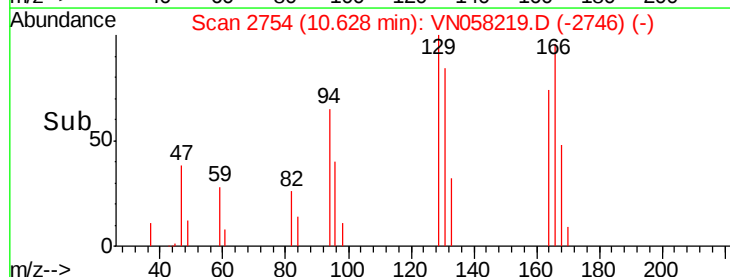
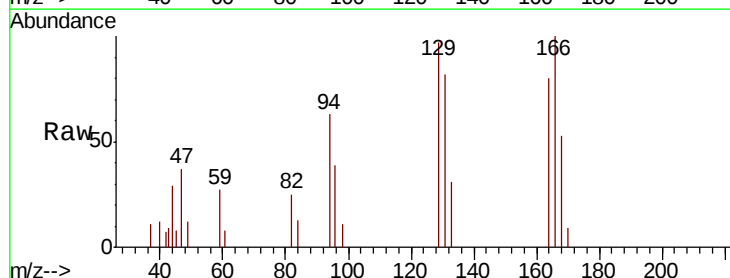
Acq: 19 Sep 2019 21:06

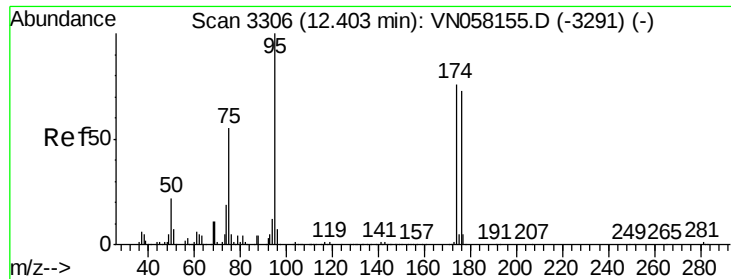
Tgt Ion: 129 Resp: 3927

Ion Ratio Lower Upper

129 100

127 0.0 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 45.318 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

ClientSampled :

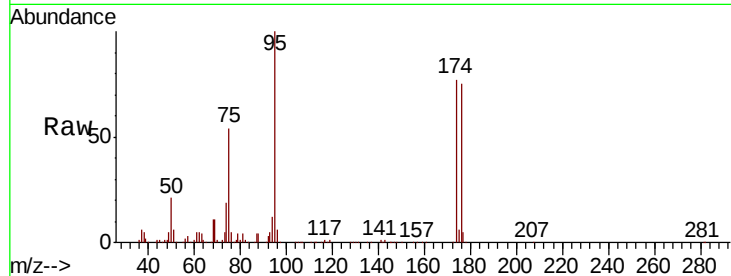
Tot Ion: 95 Resp: 333677

Ion Ratio Lower Upper

95 100

174 76.1 0.0 152.2

176 73.7 0.0 148.0

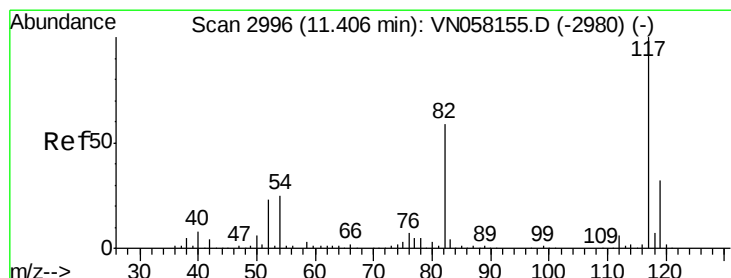
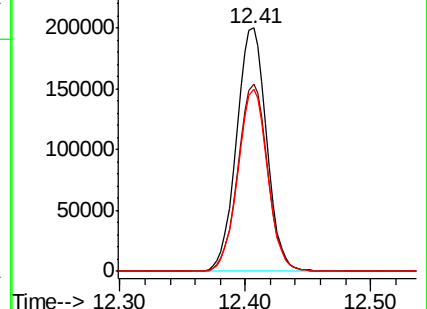
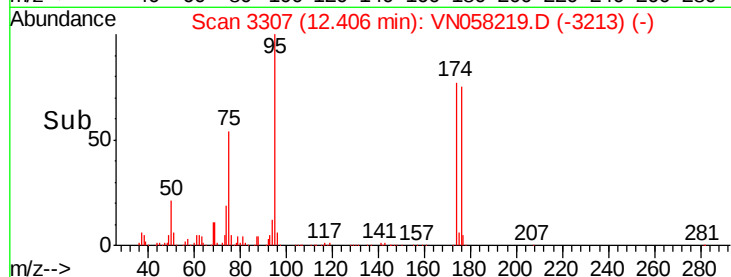


Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)

12.41



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

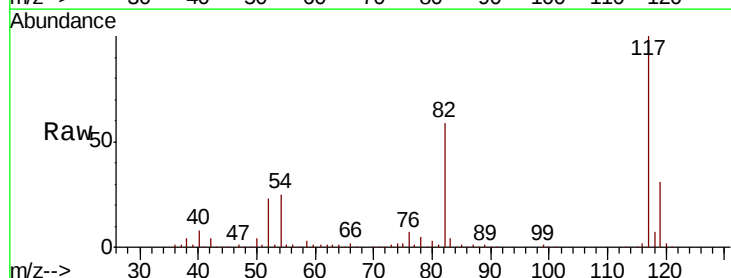
Tgt Ion: 117 Resp: 709911

Ion Ratio Lower Upper

117 100

82 58.7 46.9 70.3

119 30.9 25.3 37.9

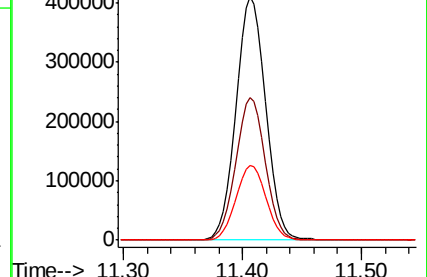
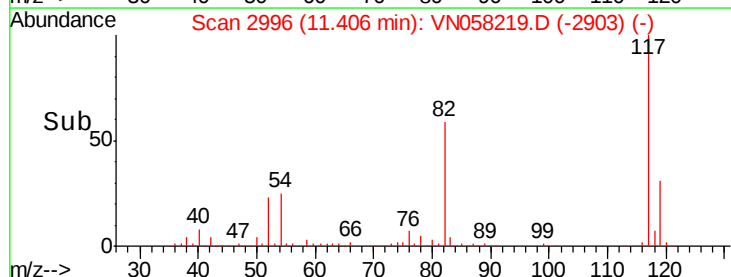


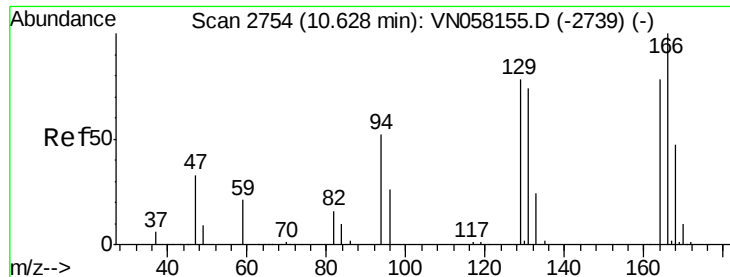
Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)

11.41





#64

Tetrachloroethene

Concen: 1.219 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 4217

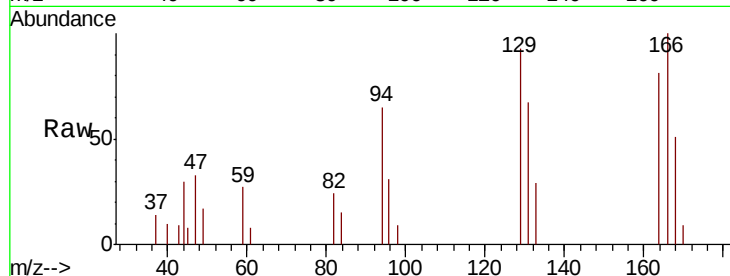
Ion Ratio Lower Upper

164 100

166 123.4 102.2 153.4

129 115.3 79.6 119.4

131 82.8 76.0 114.0

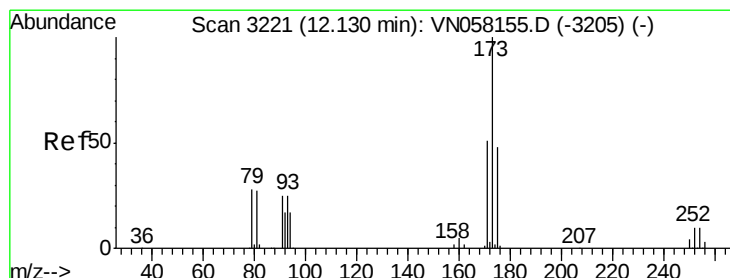
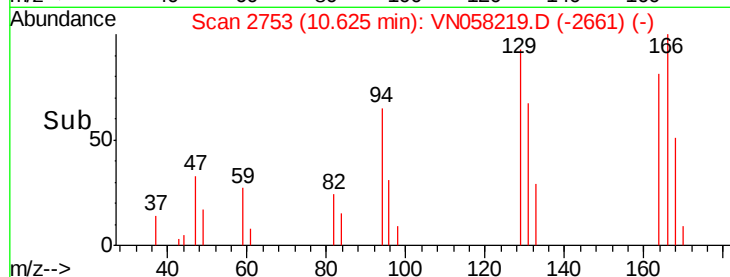
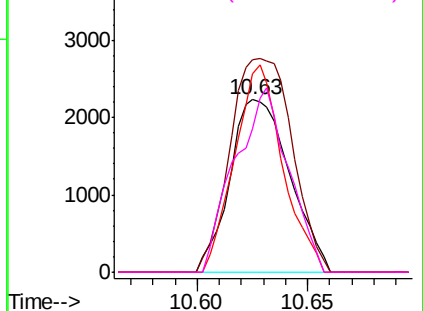


Abundance Ion 163.80 (163.50 to 164.50): V

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: 3.860 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

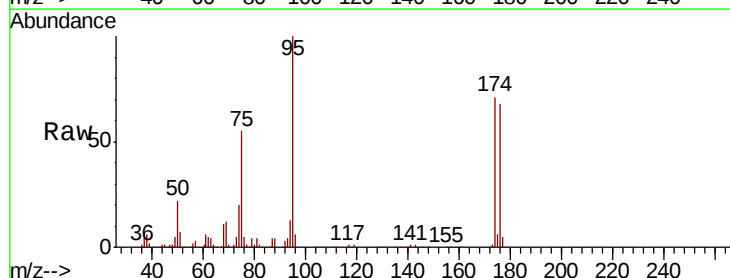
Tgt Ion:173 Resp: 959

Ion Ratio Lower Upper

173 100

175 1695.3 24.2 72.6#

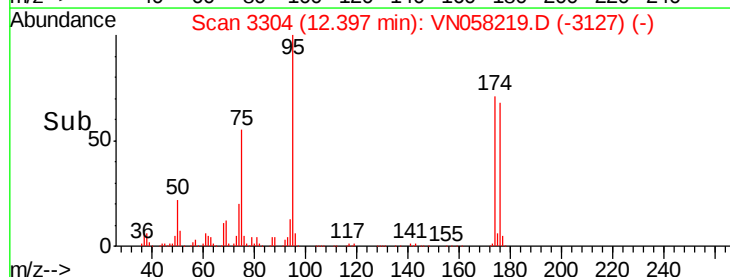
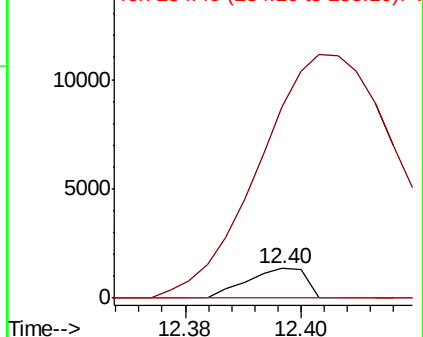
254 0.0 0.1 0.1#

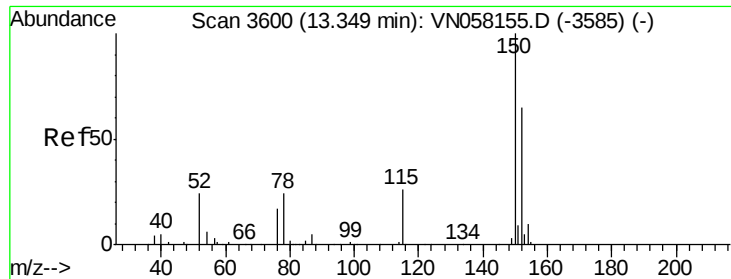


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

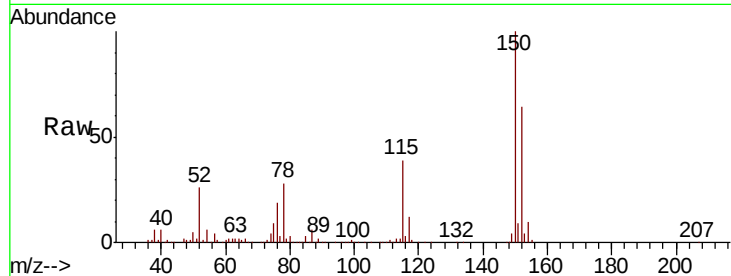
Tot Ion:152 Resp: 286687

Ion Ratio Lower Upper

152 100

115 60.7 30.1 90.3

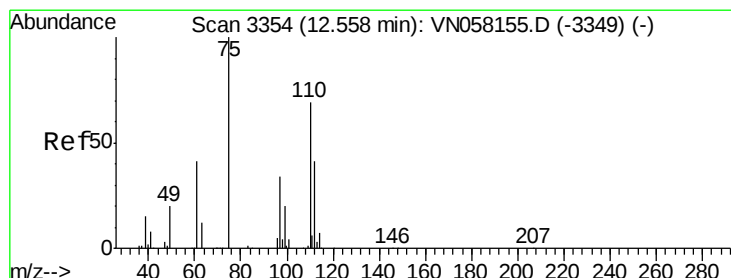
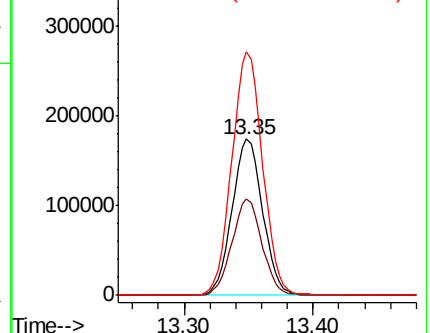
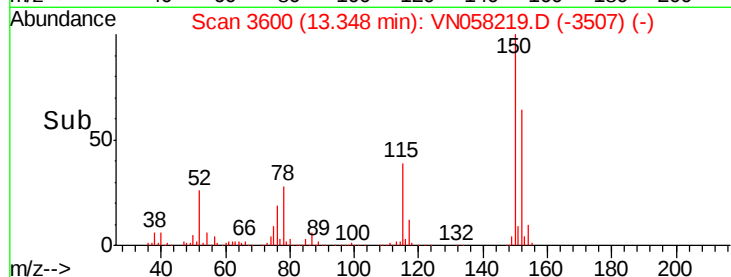
150 157.2 0.0 346.4



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: 35.449 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058219.D

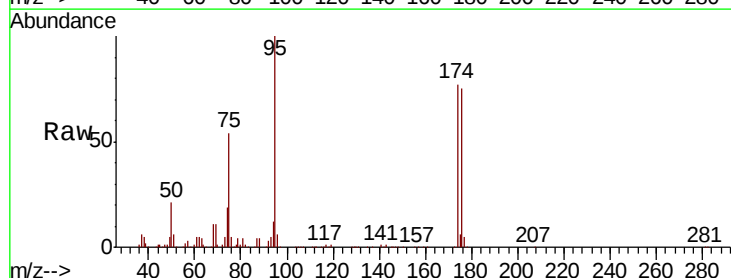
Acq: 19 Sep 2019 21:06

Tgt Ion: 75 Resp: 181883

Ion Ratio Lower Upper

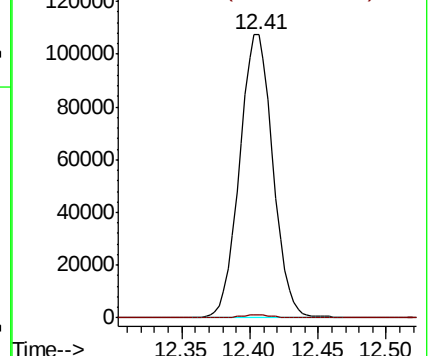
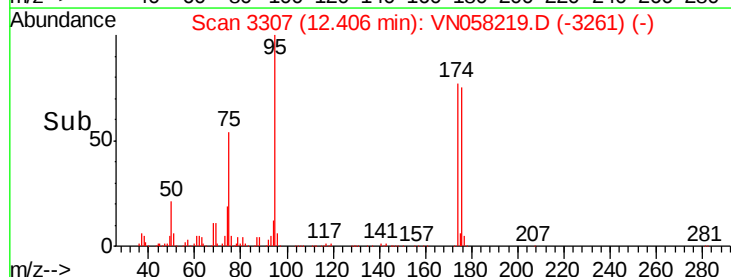
75 100

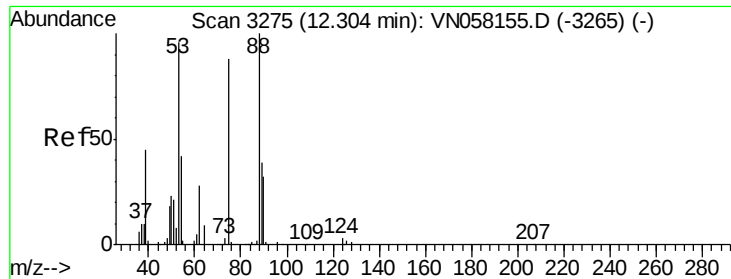
77 0.9 0.0 0.0#



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: 99.090 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058219.D

Acq: 19 Sep 2019 21:06

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 75 Resp: 181883

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.0 36.2 54.2#

