

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058277.D
 Acq On : 23 Sep 2019 9:38
 Operator : JC/SP
 Sample : VN0923WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 23 13:00:41 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	477338	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	781565	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	668226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	273167	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	357290	53.74	ug/l	0.00
Spiked Amount 50.000			Recovery =	107.48%		
35) Dibromofluoromethane	7.58	113	245548	51.68	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.36%		
50) Toluene-d8	10.09	98	983986	53.15	ug/l	0.00
Spiked Amount 50.000			Recovery =	106.30%		
62) 4-Bromofluorobenzene	12.41	95	312161	45.40	ug/l	0.00
Spiked Amount 50.000			Recovery =	90.80%		

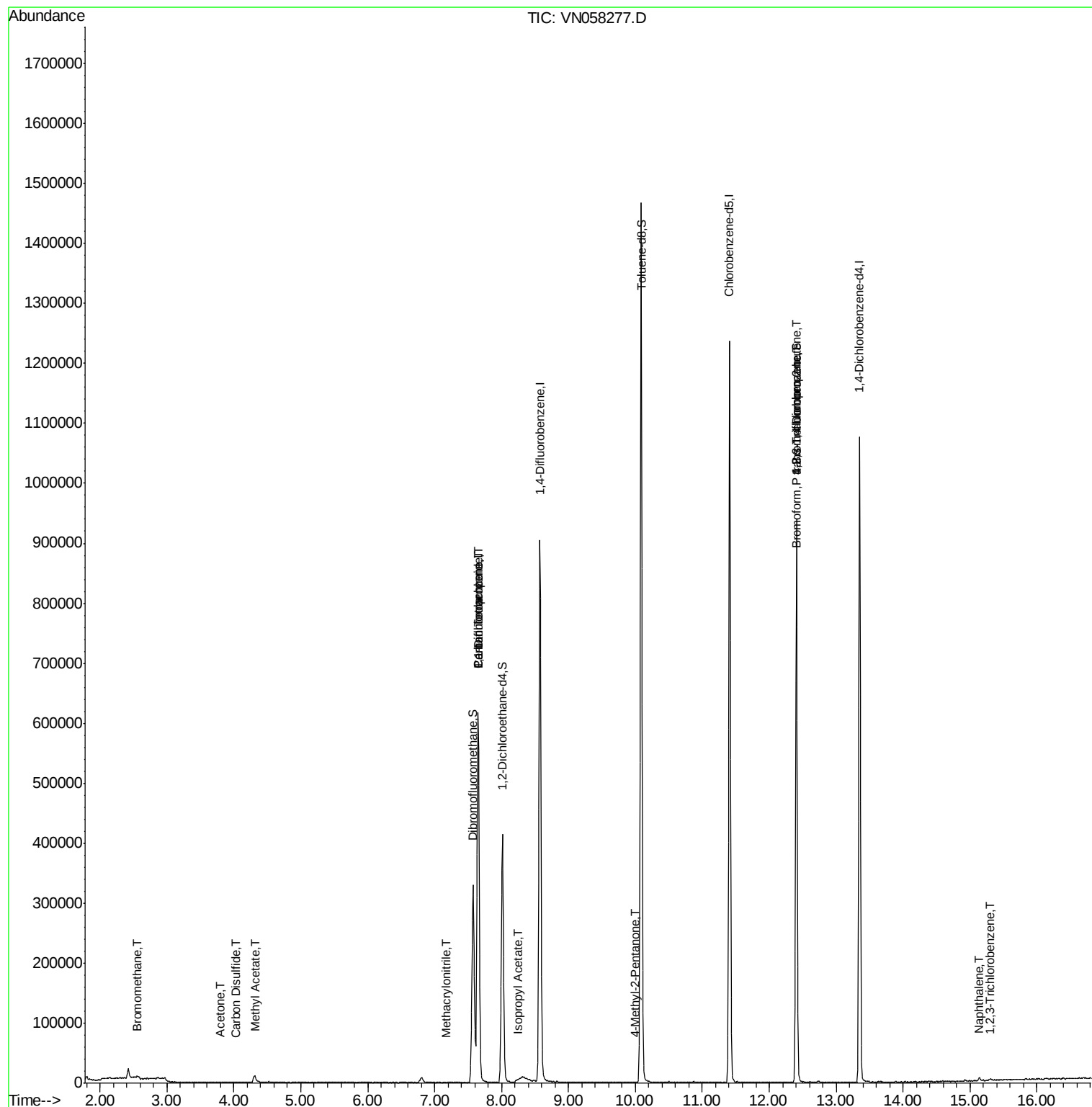
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	525	Below Cal		93
5) Bromomethane	2.55	94	278	0.879 ug/l #		63
6) Chloroethane	2.76	64	30	Below Cal #		44
16) Acetone	3.79	43	525	0.233 ug/l #		45
17) Carbon Disulfide	4.03	76	443	0.378 ug/l #		74
18) Methyl Acetate	4.30	43	21898	3.688 ug/l		97
20) Methylene Chloride	4.53	84	333	Below Cal #		36
31) Cyclohexane	7.65	56	11743	Below Cal #		3
36) 1,1-Dichloropropene	7.65	75	42133	7.475 ug/l #		51
38) Carbon Tetrachloride	7.65	117	49656	8.764 ug/l #		15
41) Methacrylonitrile	7.17	41	103	0.945 ug/l #		100
43) Isopropyl Acetate	8.24	43	4235	0.388 ug/l #		57
51) 4-Methyl-2-Pentanone	9.99	43	1271	0.219 ug/l #		37
71) Bromoform	12.39	173	96	3.623 ug/l #		29
76) 1,2,3-Trichloropropane	12.41	75	174924	35.780 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.41	75	174924	99.961 ug/l #		5
95) Naphthalene	15.14	128	4531	0.347 ug/l		96
96) 1,2,3-Trichlorobenzene	15.31	180	1256	0.264 ug/l #		87

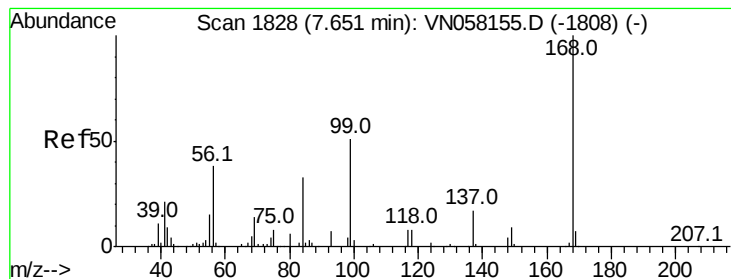
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 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: VN058277.D

Acq: 23 Sep 2019 9:38

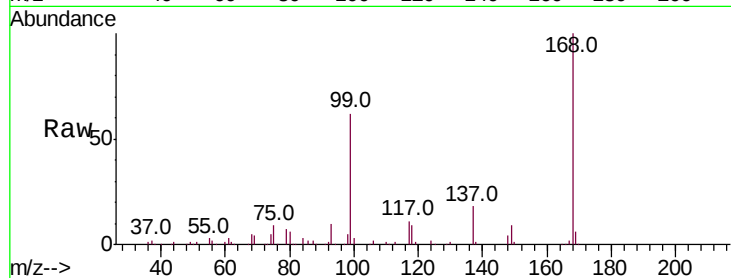
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 477338

Ion Ratio Lower Upper

168 100

99 61.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

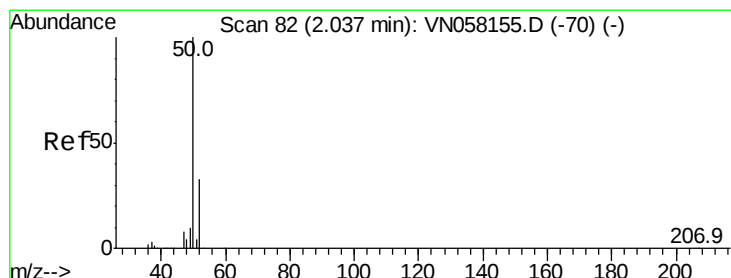
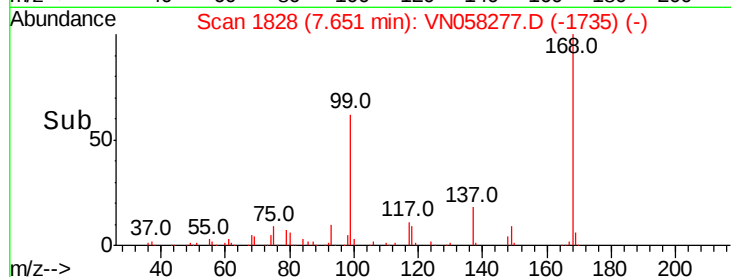
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058277.D

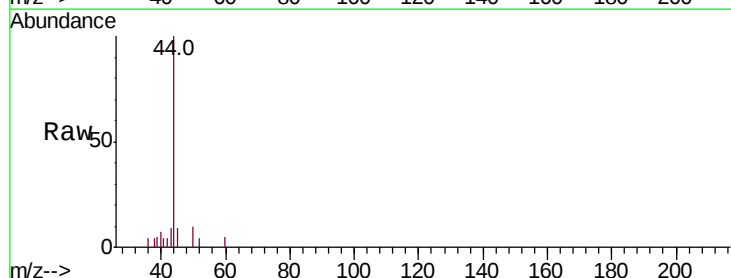
Acq: 23 Sep 2019 9:38

Tgt Ion: 50 Resp: 525

Ion Ratio Lower Upper

50 100

52 36.9 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

600

500

400

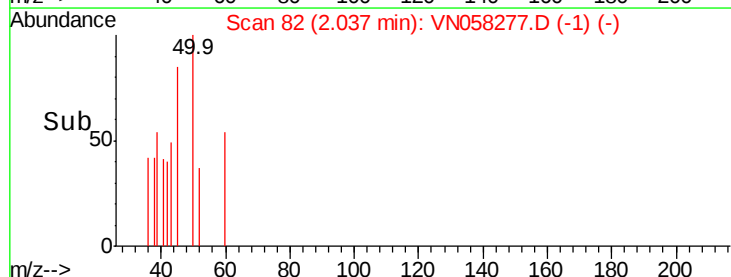
300

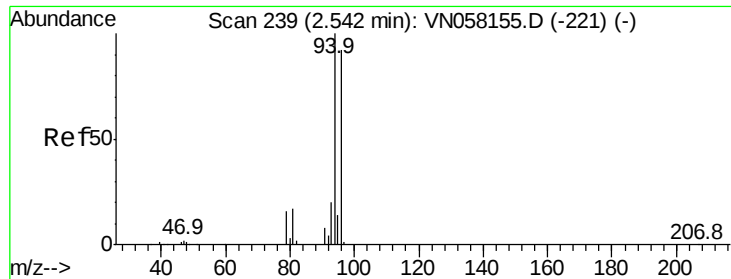
200

100

0

Time--> 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.879 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.01 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

Instrument :

MSVOA_N

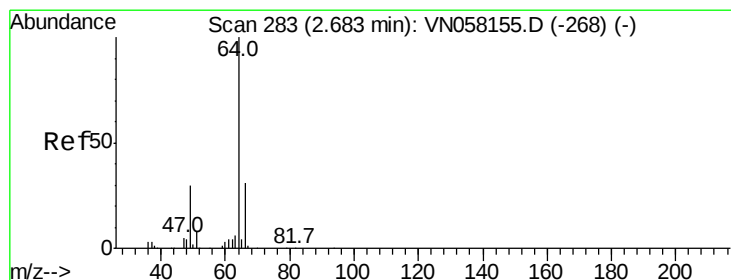
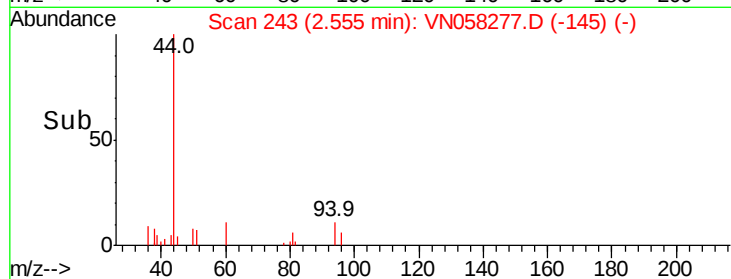
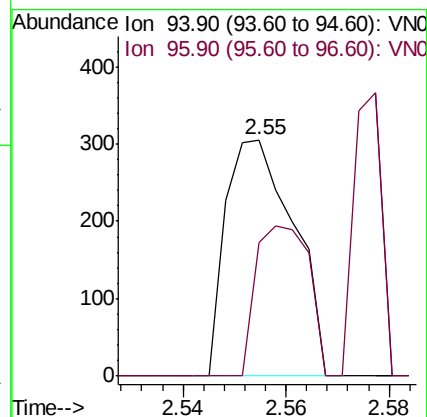
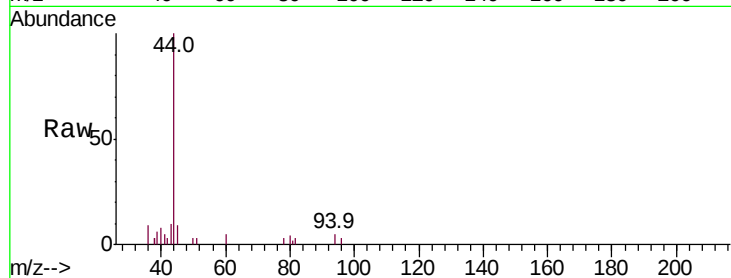
ClientSampled :

Tot Ion: 94 Resp: 278

Ion Ratio Lower Upper

94 100

96 56.7 73.3 109.9#



#6

Chloroethane

Concen: Below Cal

RT: 2.76 min Scan# 307

Delta R.T. 0.08 min

Lab File: VN058277.D

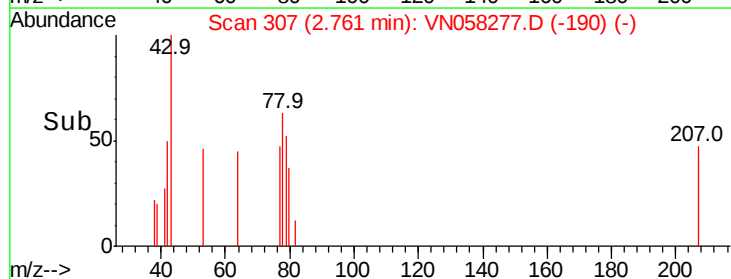
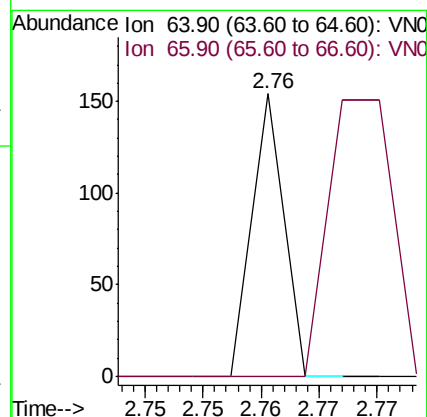
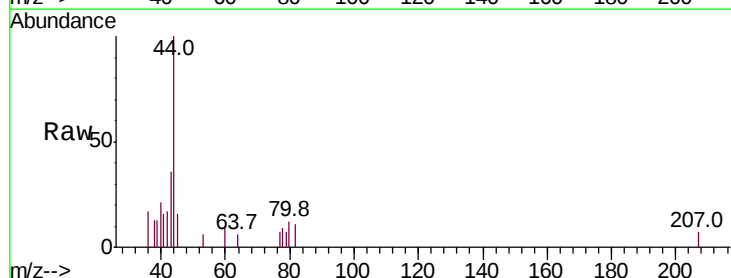
Acq: 23 Sep 2019 9:38

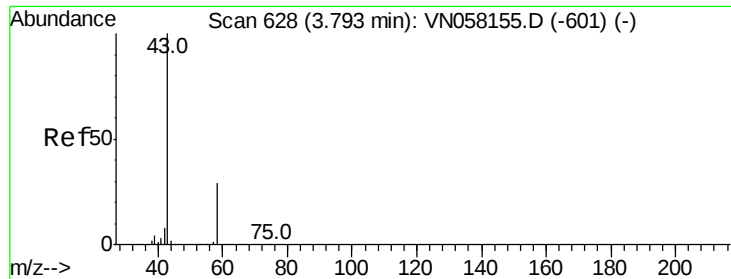
Tgt Ion: 64 Resp: 30

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#

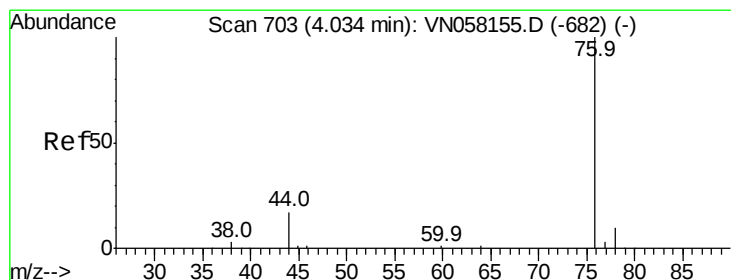
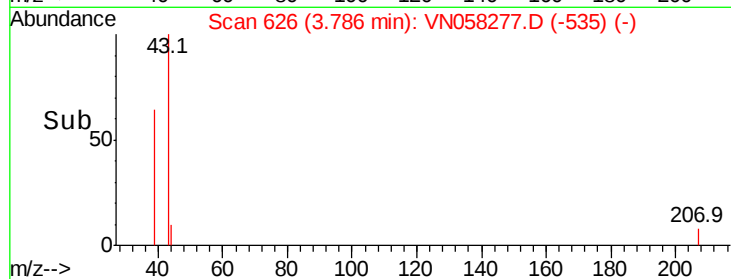
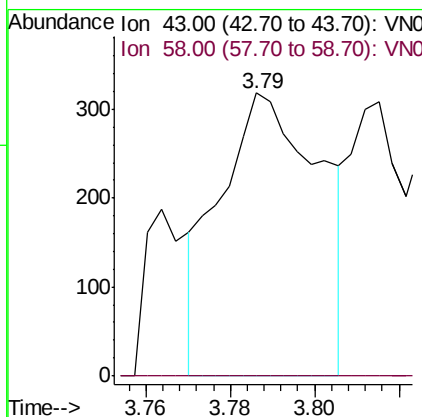
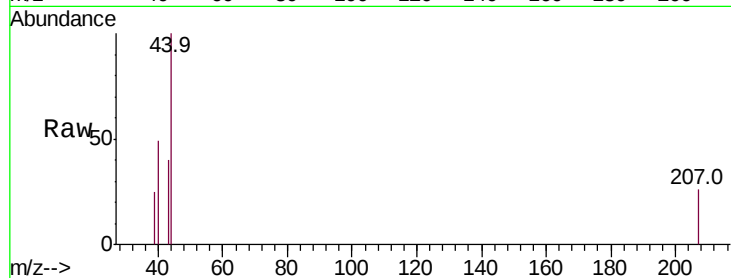




#16
Acetone
Concen: 0.233 ug/l
RT: 3.79 min Scan# 626
Delta R.T. -0.01 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

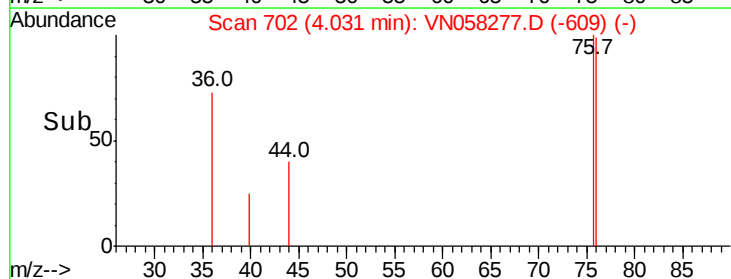
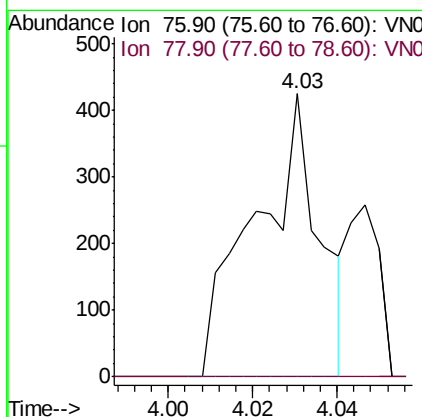
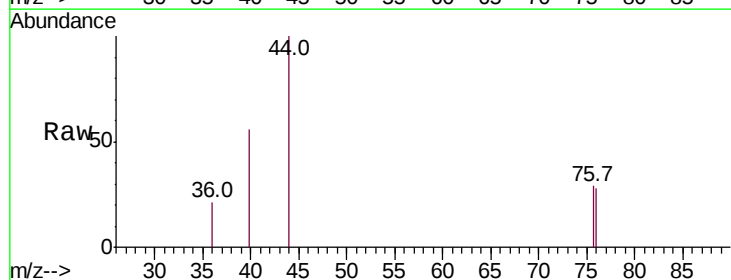
Instrument :
MSVOA_N
ClientSampled :

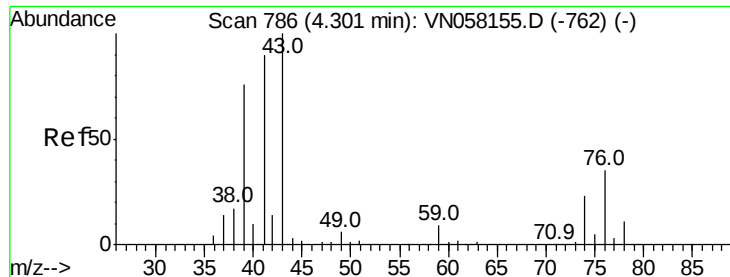
Tot Ion: 43 Resp: 525
Ion Ratio Lower Upper
43 100
58 0.0 23.4 35.2#



#17
Carbon Disulfide
Concen: 0.378 ug/l
RT: 4.03 min Scan# 702
Delta R.T. -0.00 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

Tgt Ion: 76 Resp: 443
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#

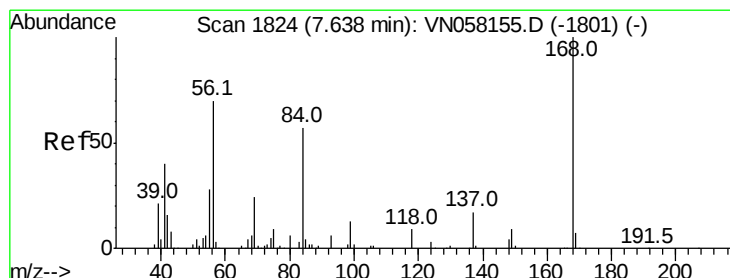
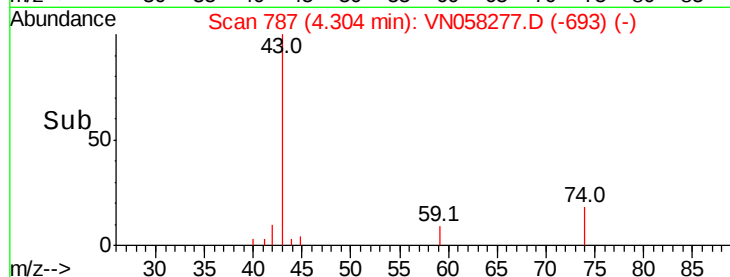
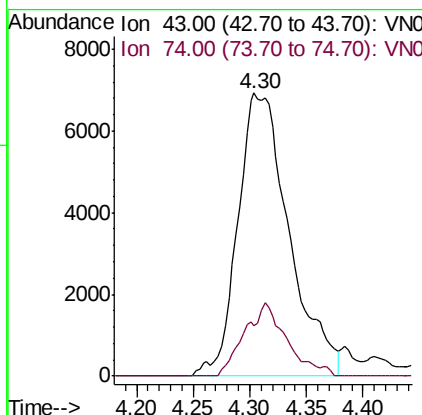
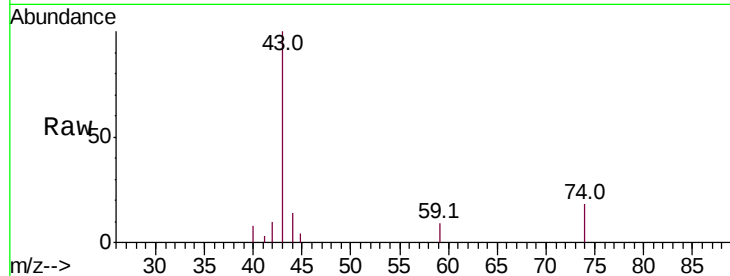




#18
Methvl Acetate
Concen: 3.688 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

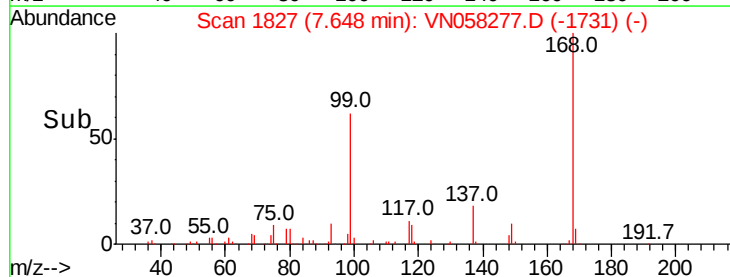
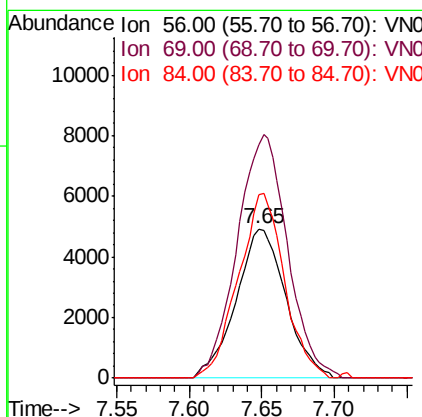
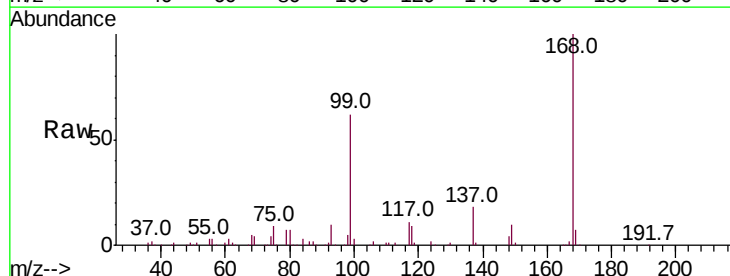
Instrument :
MSVOA_N
ClientSampleId :

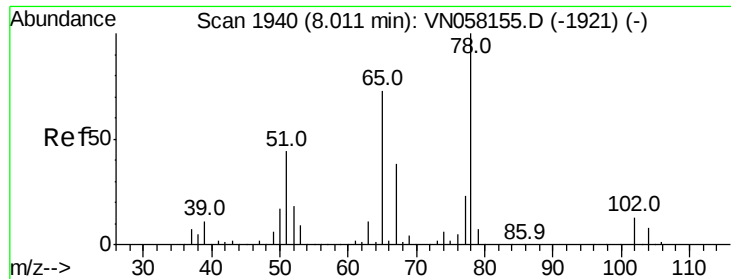
Tot Ion: 43 Resp: 21898
Ion Ratio Lower Upper
43 100
74 21.2 18.0 27.0



#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

Tgt Ion: 56 Resp: 11743
Ion Ratio Lower Upper
56 100
69 156.7 27.3 40.9#
84 123.3 65.0 97.4#

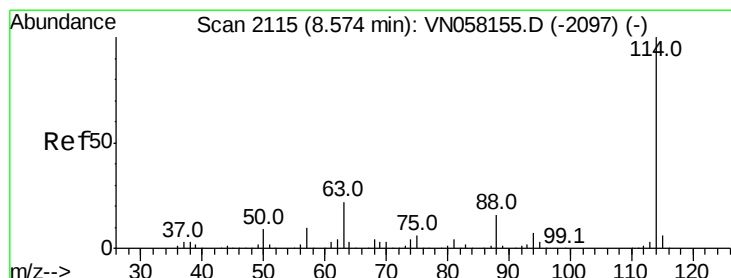
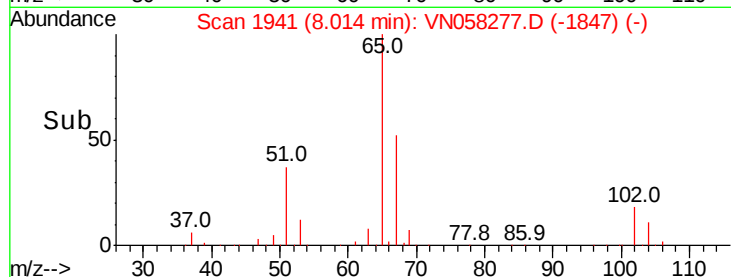
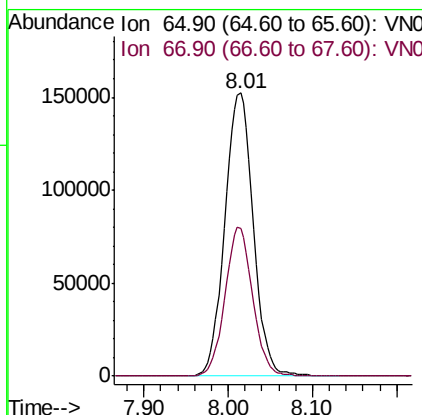
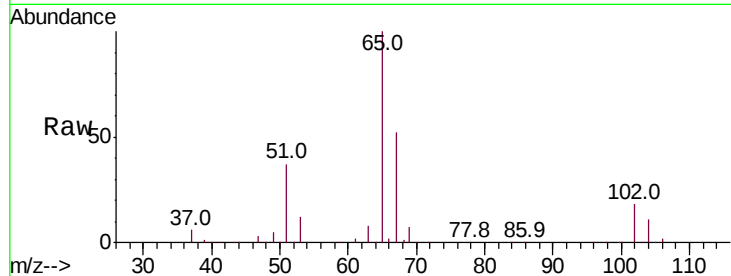




#33
 1,2-Dichloroethane-d4
 Concen: 53.741 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058277.D
 Acq: 23 Sep 2019 9:38

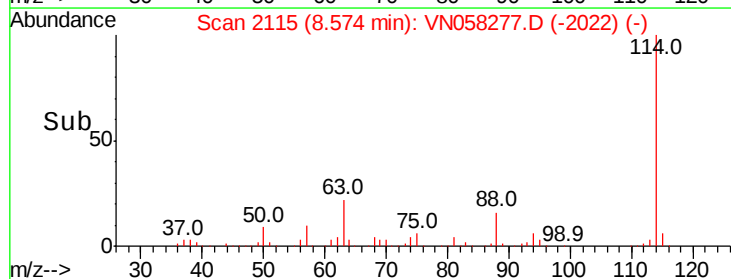
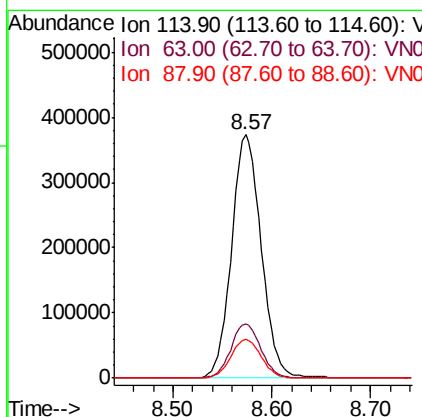
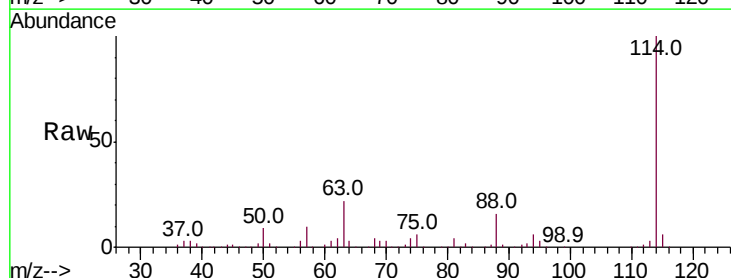
Instrument :
 MSVOA_N
 ClientSampleId :

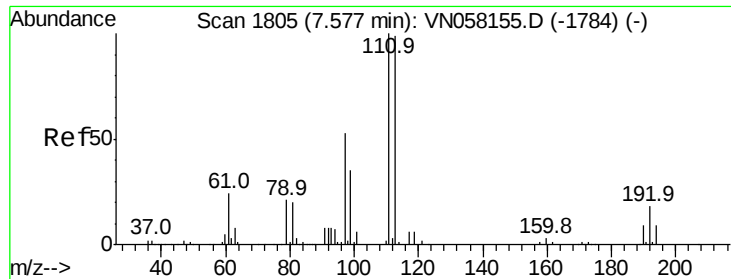
Tot Ion: 65 Resp: 357290
 Ion Ratio Lower Upper
 65 100
 67 50.9 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058277.D
 Acq: 23 Sep 2019 9:38

Tgt Ion: 114 Resp: 781565
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 44.2
 88 16.0 0.0 31.6





#35

Dibromofluoromethane

Concen: 51.680 ug/l

RT: 7.58 min Scan# 1805

Delta R.T. 0.00 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

Instrument :
MSVOA_N
ClientSampleId :

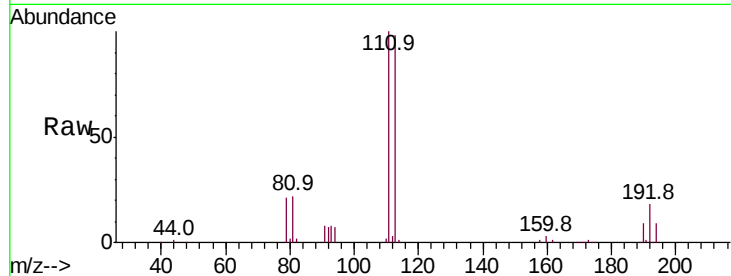
Tot Ion:113 Resp: 245548

Ion Ratio Lower Upper

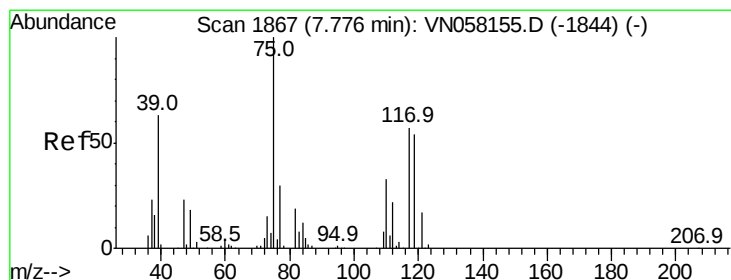
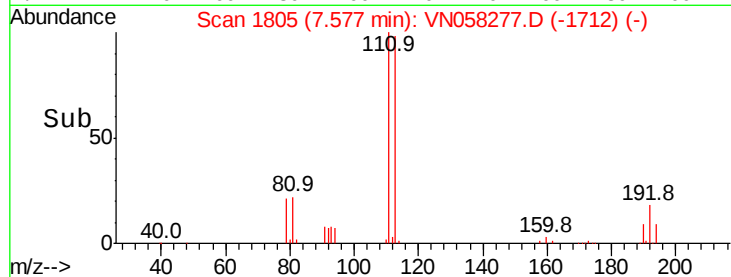
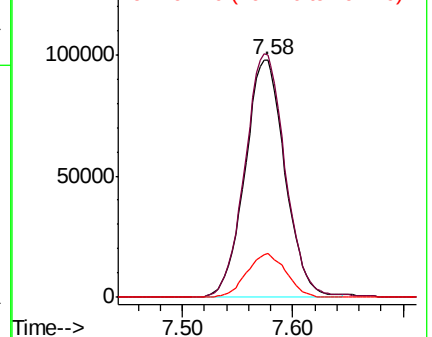
113 100

111 103.8 81.8 122.6

192 18.4 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: 7.475 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.13 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

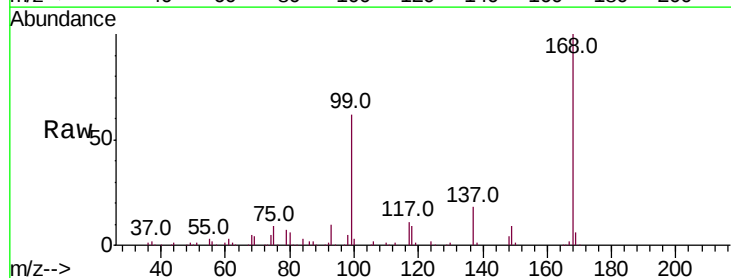
Tgt Ion: 75 Resp: 42133

Ion Ratio Lower Upper

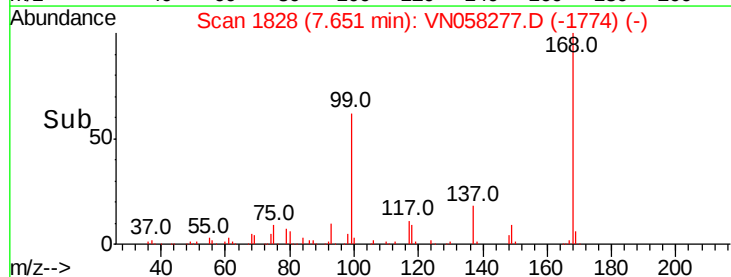
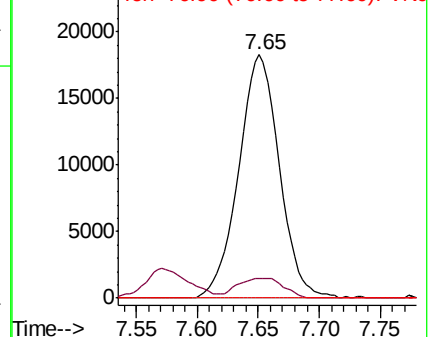
75 100

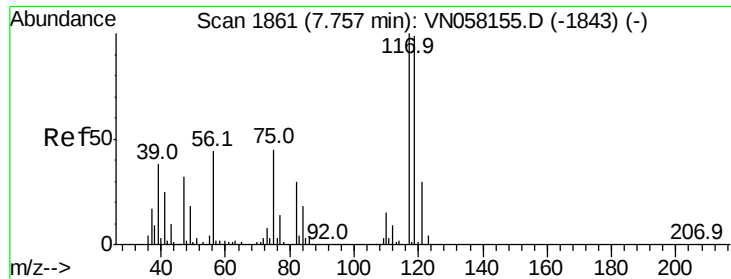
110 9.4 16.6 49.7#

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

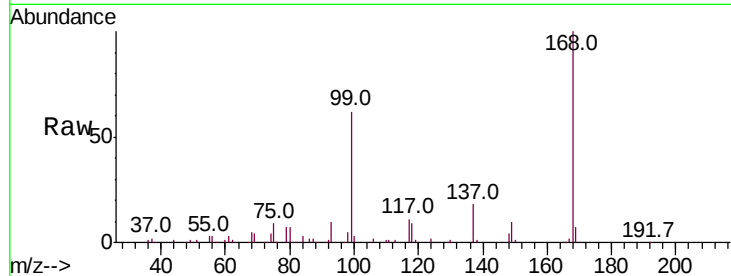




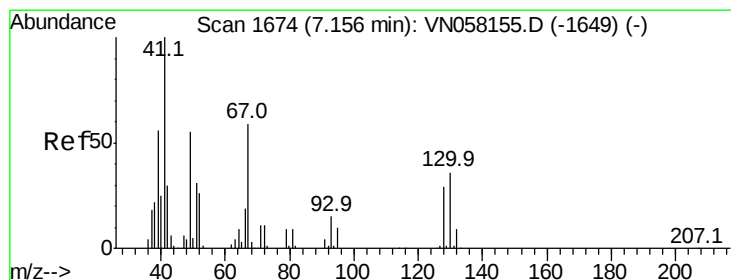
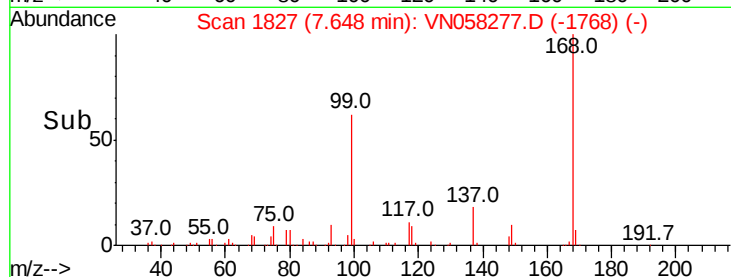
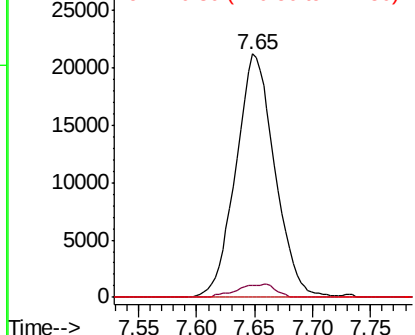
#38
Carbon Tetrachloride
Concen: 8.764 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 49656
Ion Ratio Lower Upper
117 100
119 5.0 78.6 117.8#
121 0.0 24.1 36.1#

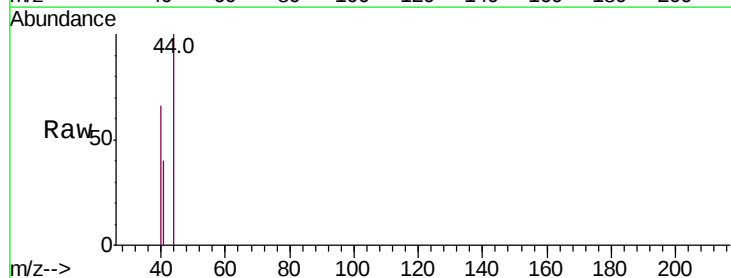


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

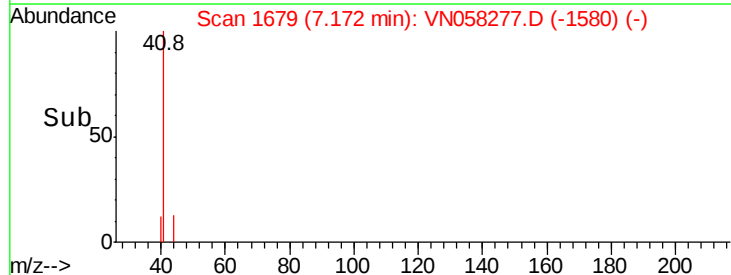
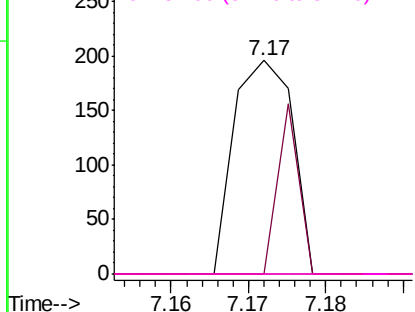


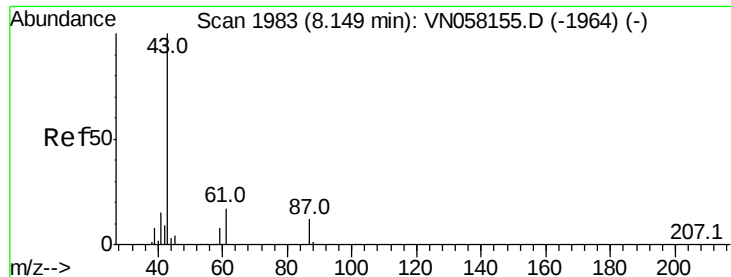
#41
Methacrylonitrile
Concen: 0.945 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. 0.02 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

Tgt Ion: 41 Resp: 103
Ion Ratio Lower Upper
41 100
39 29.1 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): V
Ion 39.00 (38.70 to 39.70): V
Ion 67.00 (66.70 to 67.70): V
Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 0.388 ug/l

RT: 8.24 min Scan# 2011

Delta R.T. 0.09 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

Instrument :

MSVOA_N

ClientSampleId :

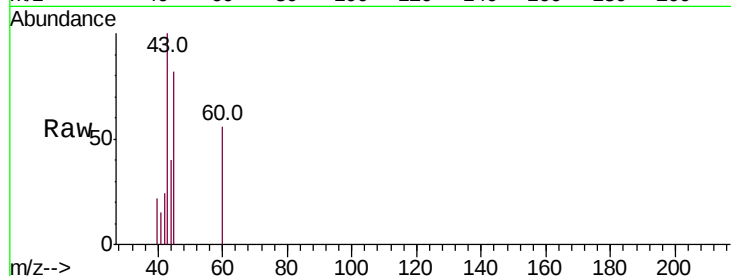
Tot Ion: 43 Resp: 4235

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

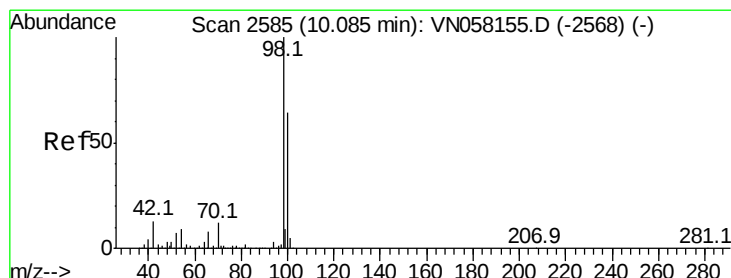
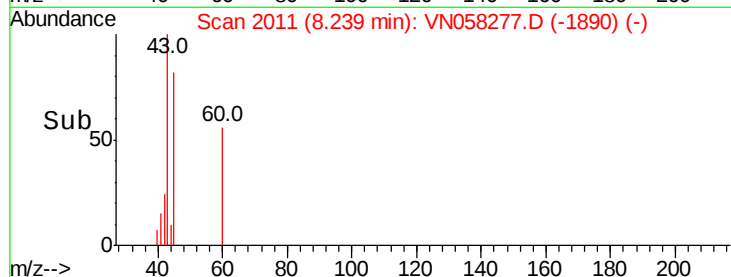
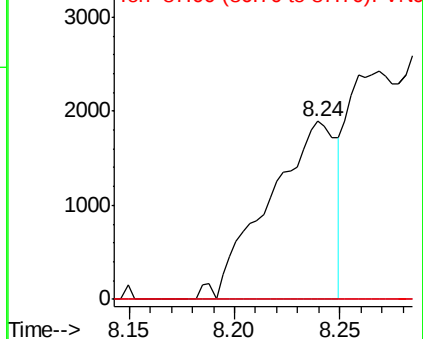
87 0.0 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#50

Toluene-d8

Concen: 53.154 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058277.D

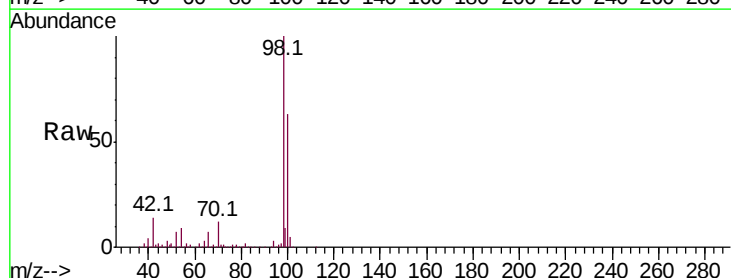
Acq: 23 Sep 2019 9:38

Tgt Ion: 98 Resp: 983986

Ion Ratio Lower Upper

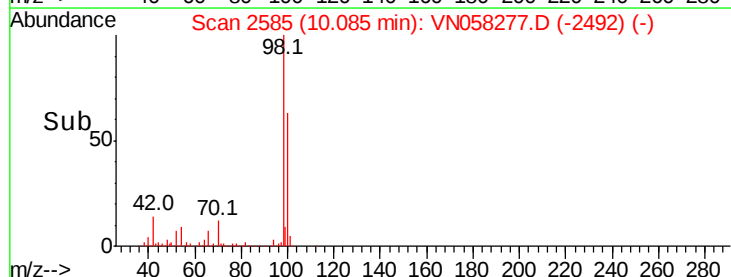
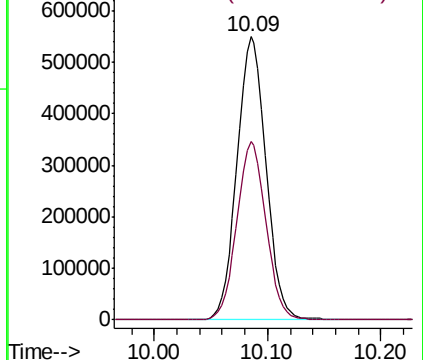
98 100

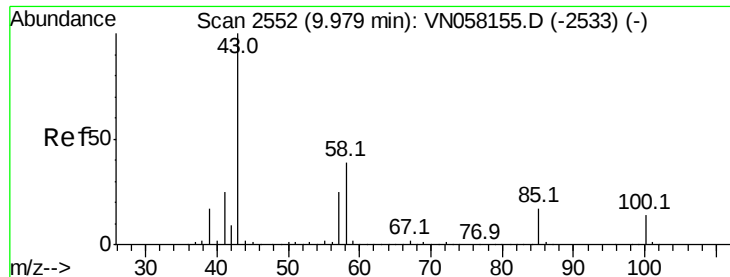
100 63.2 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.219 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

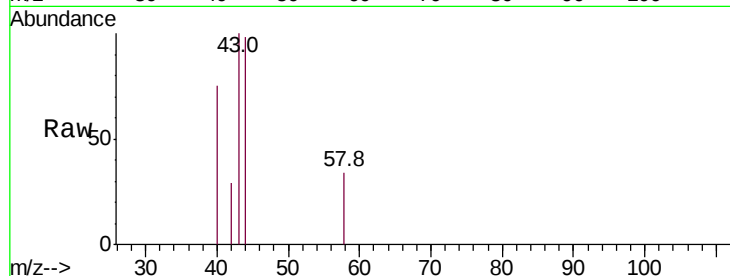
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1271

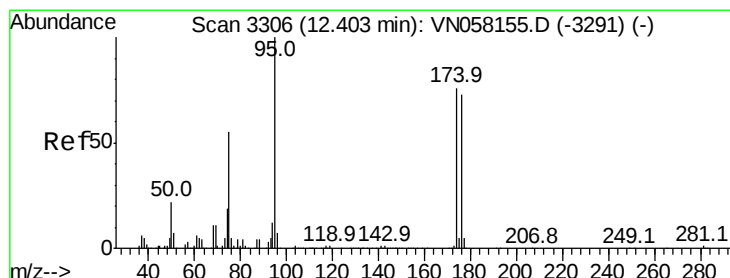
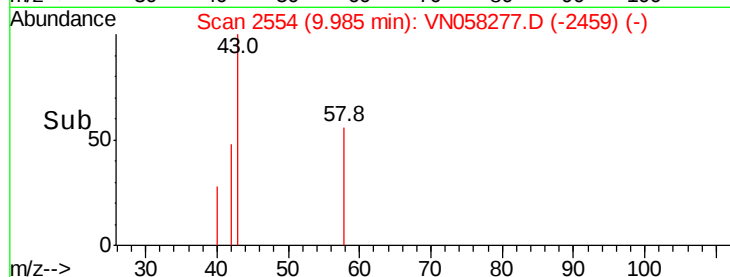
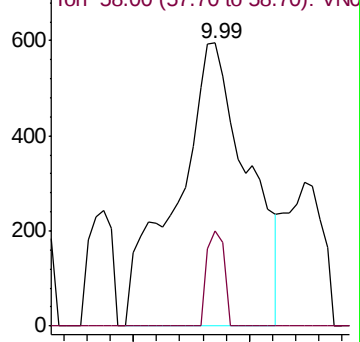
Ion Ratio Lower Upper

43 100

58 0.0 30.2 45.4#



Abundance Ion 43.00 (42.70 to 43.70): VN058155.D (-2533) (-)



#62

4-Bromofluorobenzene

Concen: 45.395 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

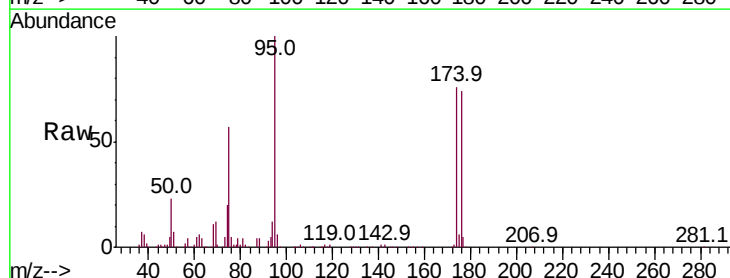
Tgt Ion: 95 Resp: 312161

Ion Ratio Lower Upper

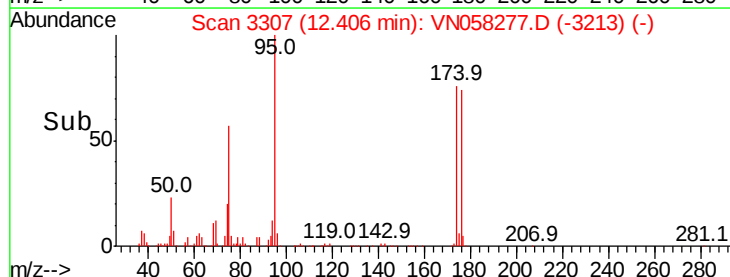
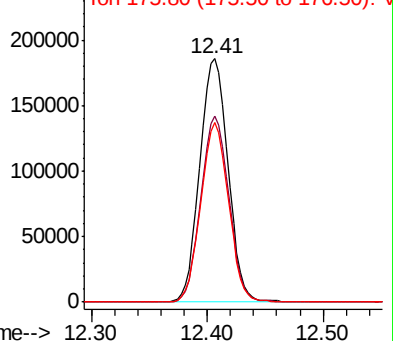
95 100

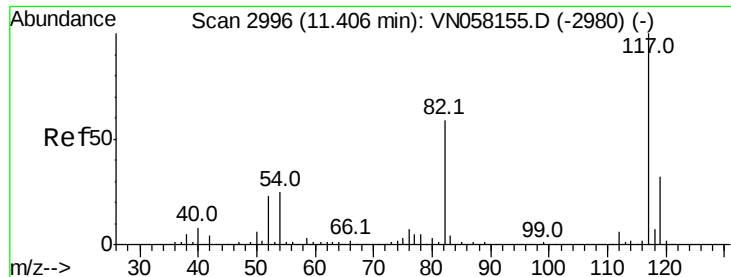
174 76.0 0.0 152.2

176 72.3 0.0 148.0



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

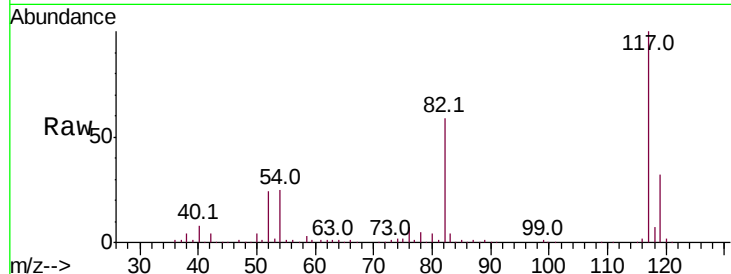




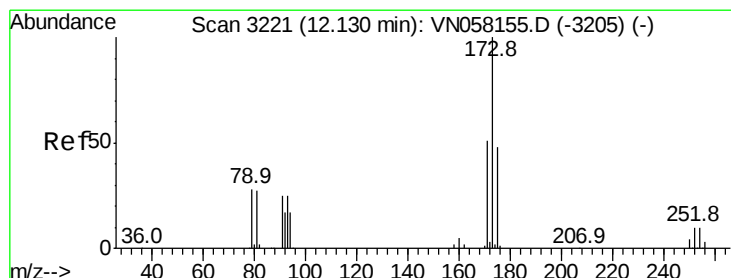
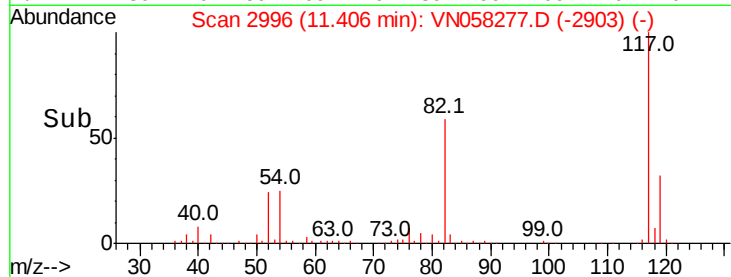
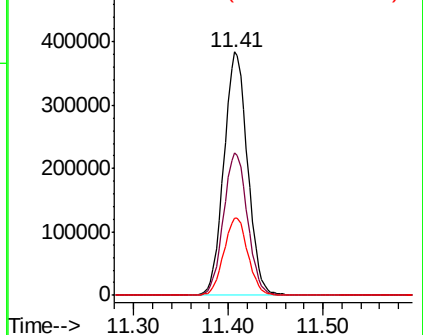
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 668226
Ion Ratio Lower Upper
117 100
82 58.7 46.9 70.3
119 31.7 25.3 37.9

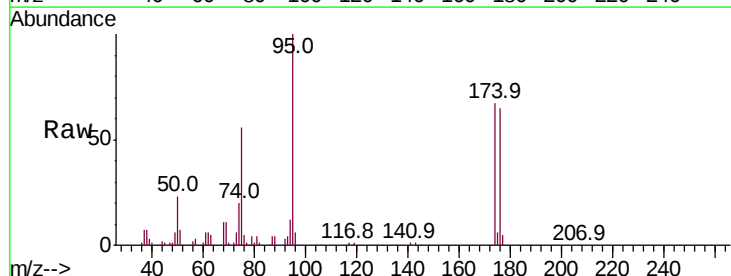


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

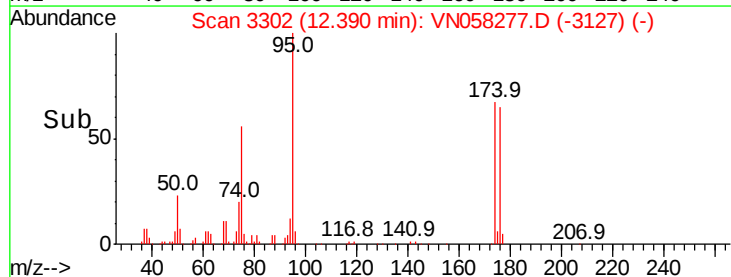
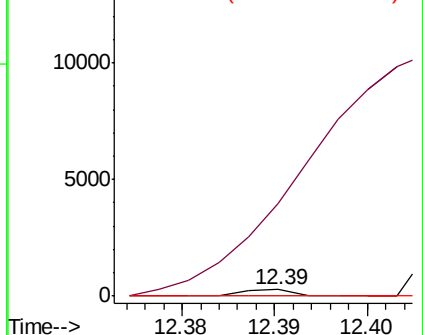


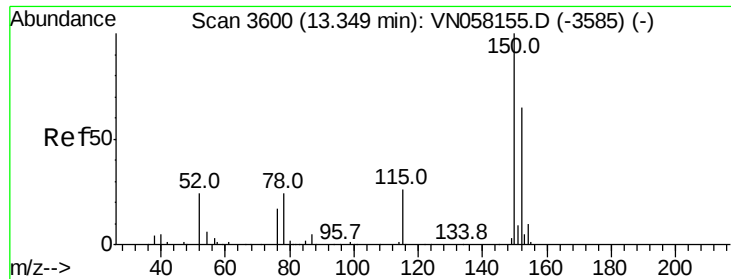
#71
Bromoform
Concen: 3.623 ug/l
RT: 12.39 min Scan# 3302
Delta R.T. 0.26 min
Lab File: VN058277.D
Acq: 23 Sep 2019 9:38

Tgt Ion:173 Resp: 96
Ion Ratio Lower Upper
173 100
175 0.0 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# 3601

Delta R.T. 0.00 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

Instrument :

MSVOA_N

ClientSampleId :

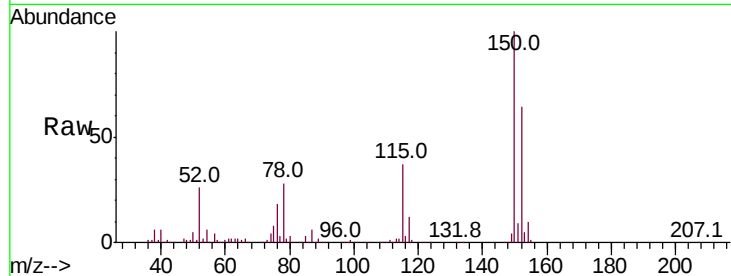
Tot Ion:152 Resp: 273167

Ion Ratio Lower Upper

152 100

115 59.9 30.1 90.3

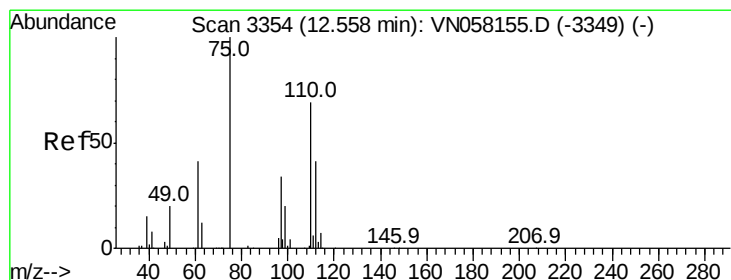
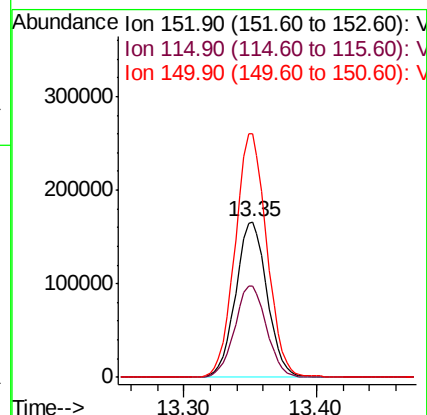
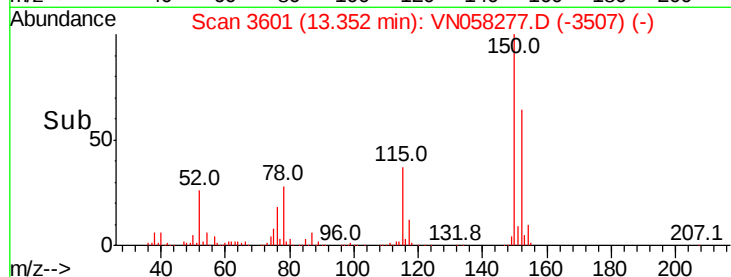
150 157.6 0.0 346.4



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: 35.780 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058277.D

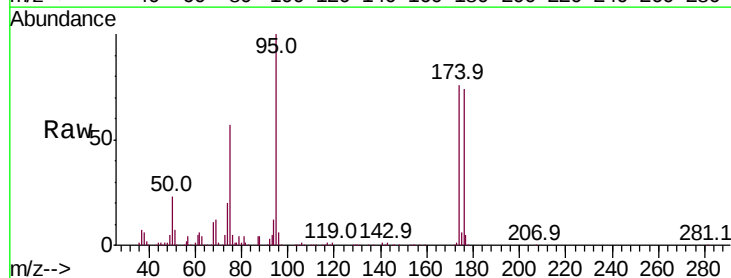
Acq: 23 Sep 2019 9:38

Tgt Ion: 75 Resp: 174924

Ion Ratio Lower Upper

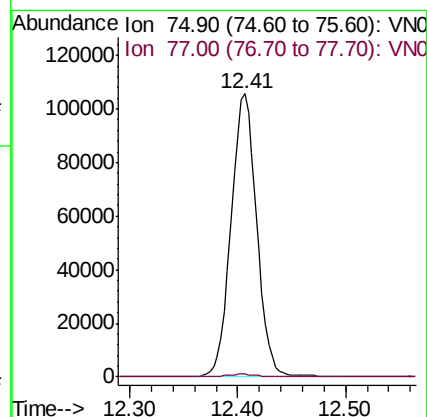
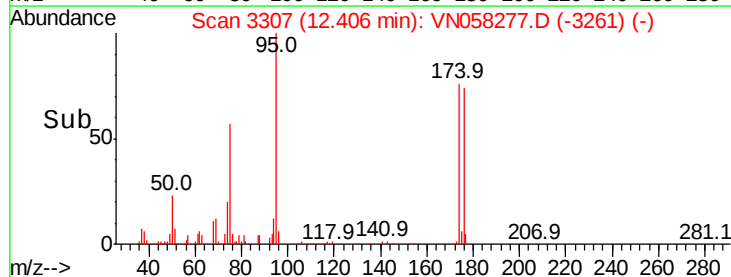
75 100

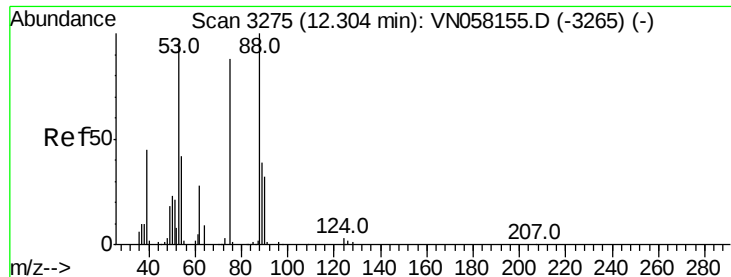
77 1.1 0.0 0.0#



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: 99.961 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

Instrument :

MSVOA_N

ClientSampled :

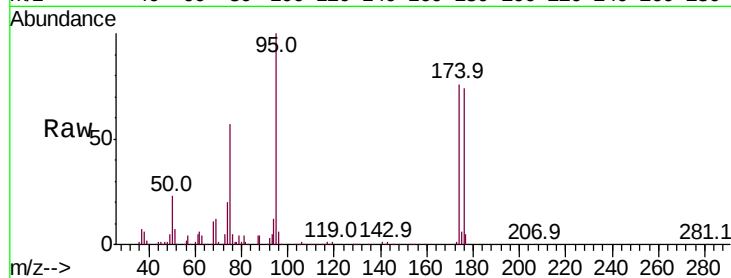
Tot Ion: 75 Resp: 174924

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

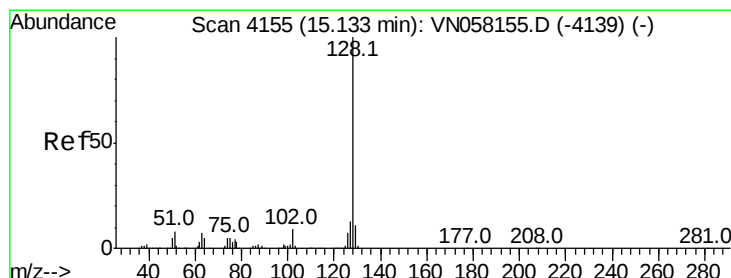
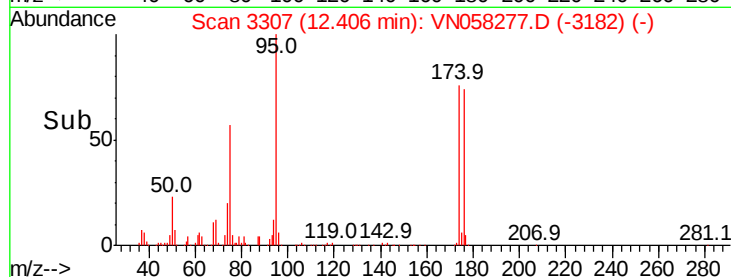
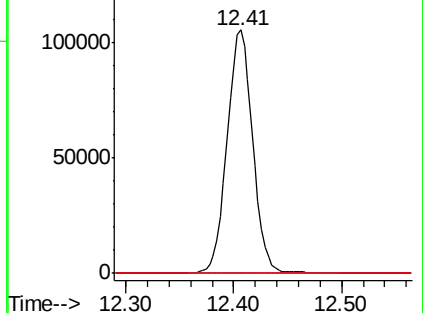
89 0.0 36.2 54.2#



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



#95

Naphthalene

Concen: 0.347 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN058277.D

Acq: 23 Sep 2019 9:38

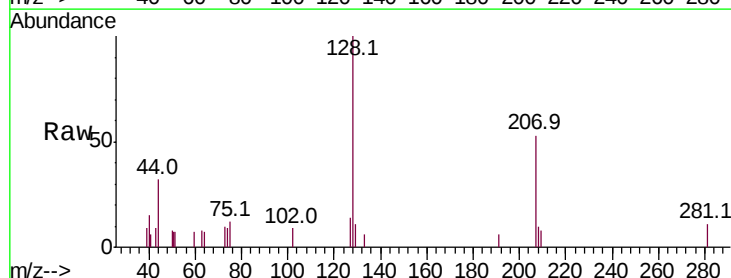
Tgt Ion: 128 Resp: 4531

Ion Ratio Lower Upper

128 100

127 11.1 10.2 15.2

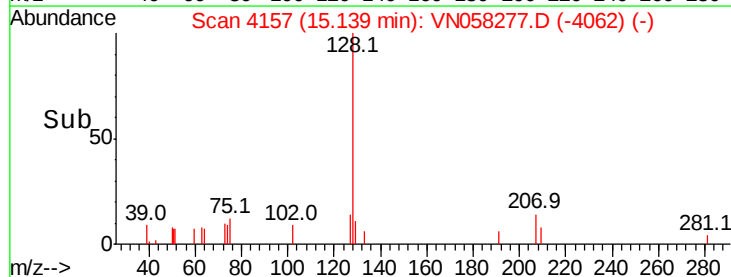
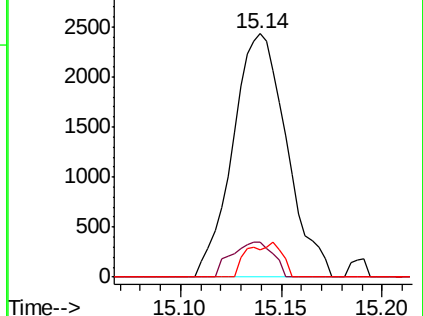
129 9.2 8.6 12.8

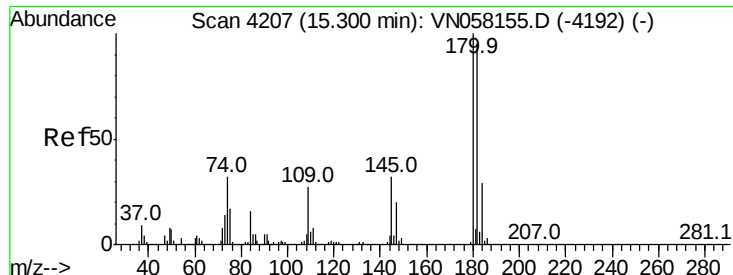


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

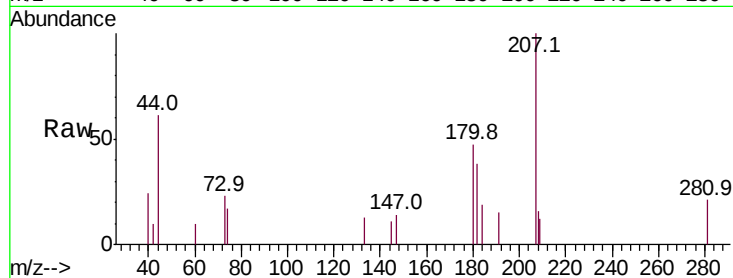




#96
 1,2,3-Trichlorobenzene
 Concen: 0.264 ug/l
 RT: 15.31 min Scan# 4210
 Delta R.T. 0.01 min
 Lab File: VN058277.D
 Acq: 23 Sep 2019 9:38

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.4	142.2
145	5.3	16.1	48.2#



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

