

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102519\
 Data File : VN058963.D
 Acq On : 24 Oct 2019 15:56
 Operator : JC/SP
 Sample : K5508-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

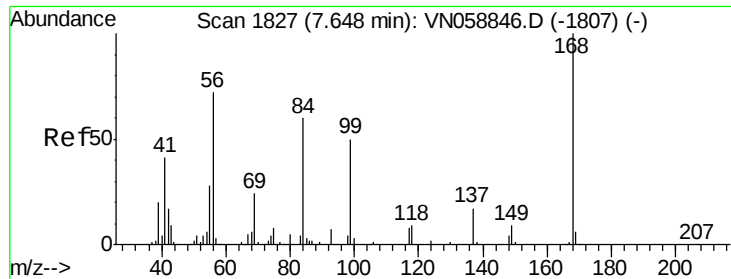
Quant Time: Oct 25 01:25:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	360597	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	577868	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	506460	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	181758	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	271075	51.26	ug/l	0.00
Spiked Amount			Recovery	=	102.52%	
35) Dibromofluoromethane	7.57	113	194073	51.08	ug/l	0.00
Spiked Amount			Recovery	=	102.16%	
50) Toluene-d8	10.08	98	722410	48.98	ug/l	0.00
Spiked Amount			Recovery	=	97.96%	
62) 4-Bromofluorobenzene	12.40	95	225767	41.68	ug/l	0.00
Spiked Amount			Recovery	=	83.36%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.84	85	8090	1.799	ug/l	95
4) Vinyl Chloride	2.17	62	3616	0.654	ug/l	96
11) Tert butyl alcohol	4.75	59	253	0.288	ug/l #	72
16) Acetone	3.80	43	1942	0.743	ug/l	99
17) Carbon Disulfide	4.03	76	2799	0.244	ug/l #	75
18) Methyl Acetate	4.31	43	1243	0.209	ug/l #	55
27) cis-1,2-Dichloroethene	6.81	96	3175	0.708	ug/l	70
31) Cyclohexane	7.65	56	8454	1.112	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	30497	5.155	ug/l #	51
38) Carbon Tetrachloride	7.64	117	36360	5.966	ug/l #	18
44) Trichloroethene	8.82	130	1245	0.294	ug/l	88
71) Bromoform	12.41	173	1243	0.412	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	121150	28.760	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	121150	74.922	ug/l #	10
90) Hexachloroethane	14.00	117	486	0.214	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	365	2.616	ug/l #	12
95) Naphthalene	15.14	128	1765	2.387	ug/l #	84
96) 1,2,3-Trichlorobenzene	15.30	180	613	2.560	ug/l #	62

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN058963.D

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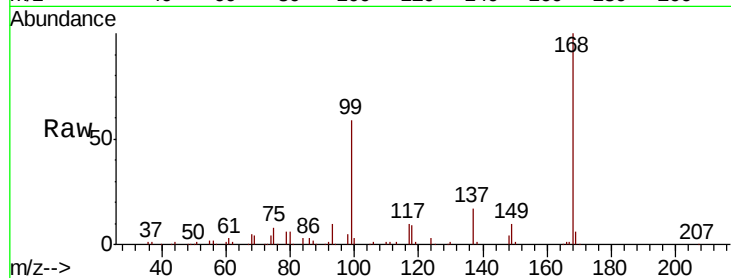
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 360597

Ion Ratio Lower Upper

168 100

99 59.0 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

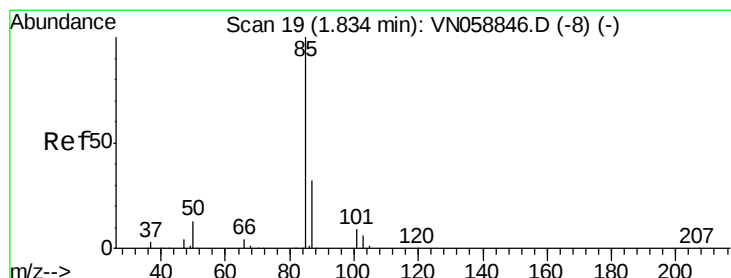
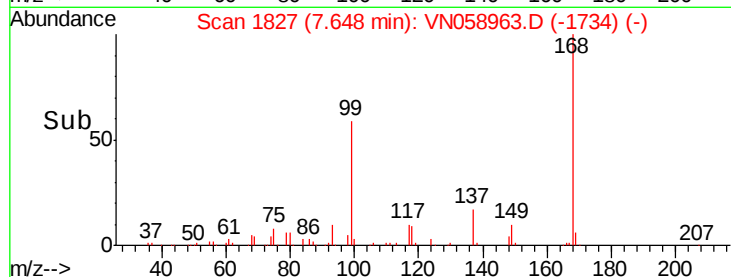
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#2

Dichlorodifluoromethane

Concen: 1.799 ug/l

RT: 1.84 min Scan# 20

Delta R.T. 0.00 min

Lab File: VN058963.D

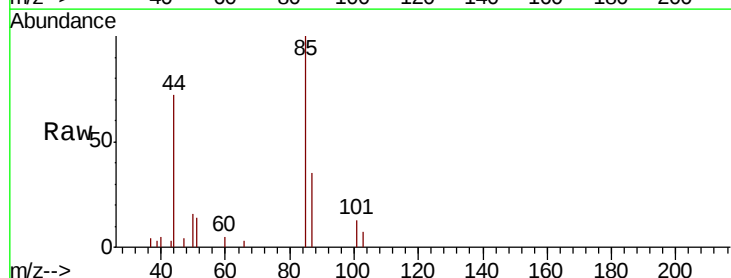
Acq: 24 Oct 2019 15:56

Tgt Ion: 85 Resp: 8090

Ion Ratio Lower Upper

85 100

87 35.3 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.84

6000

5000

4000

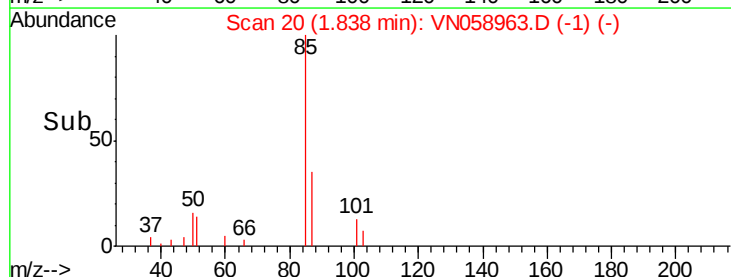
3000

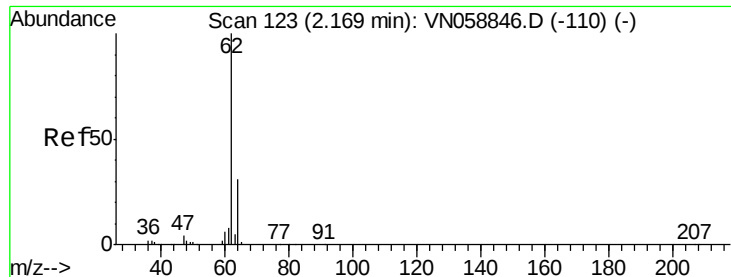
2000

1000

0

Time--> 1.80 1.85 1.90





#4

Vinyl Chloride

Concen: 0.654 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :

MSVOA_N

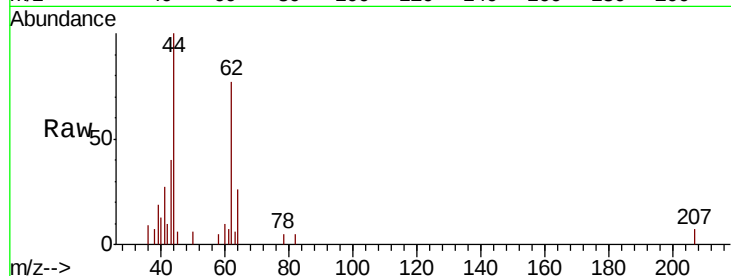
ClientSampled :

Tot Ion: 62 Resp: 3616

Ion Ratio Lower Upper

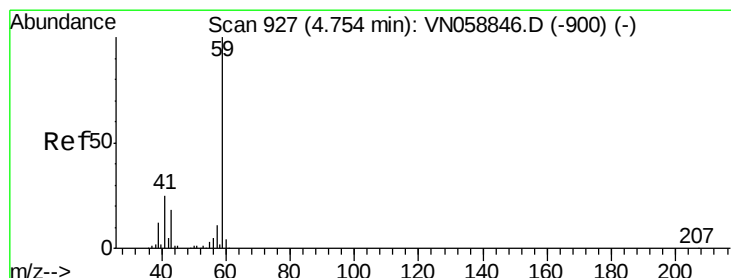
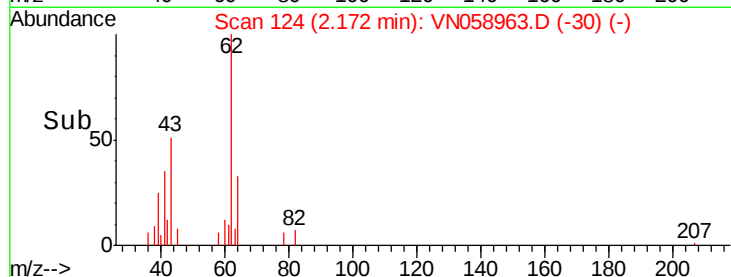
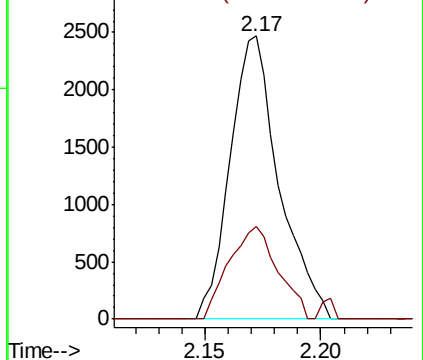
62 100

64 33.0 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#11

Tert butyl alcohol

Concen: 0.288 ug/l

RT: 4.75 min Scan# 925

Delta R.T. -0.01 min

Lab File: VN058963.D

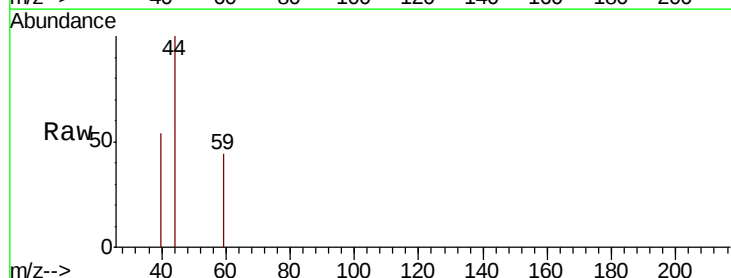
Acq: 24 Oct 2019 15:56

Tgt Ion: 59 Resp: 253

Ion Ratio Lower Upper

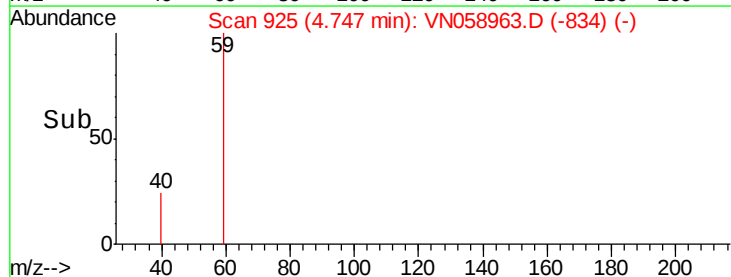
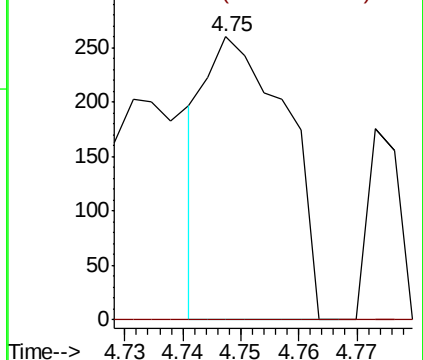
59 100

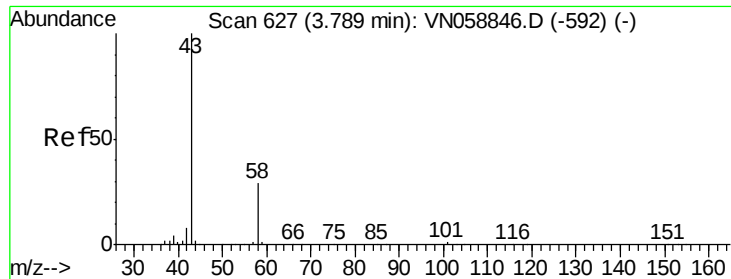
57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 0.743 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

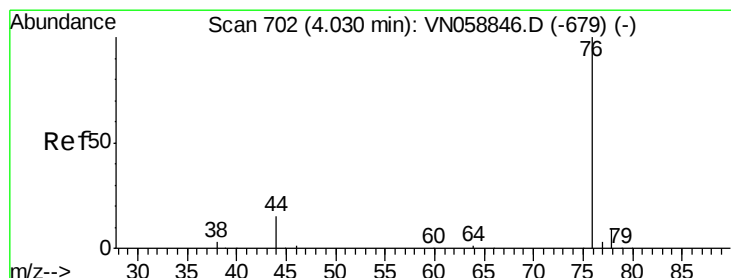
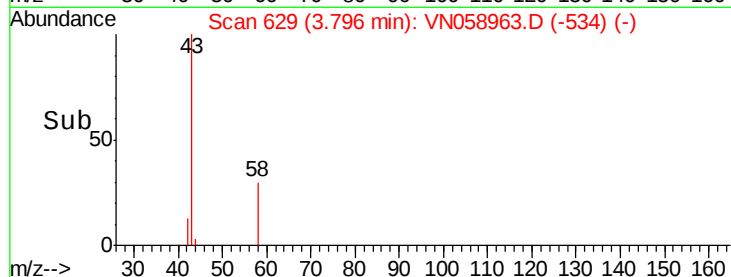
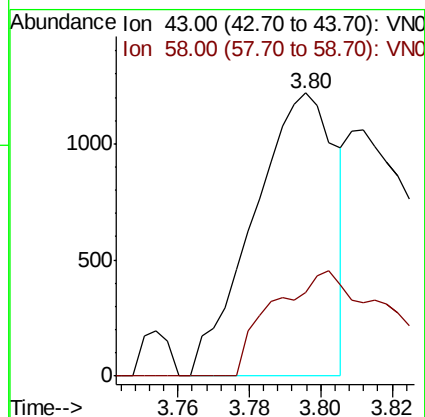
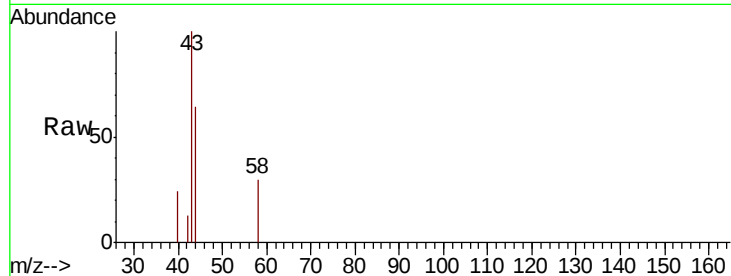
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1942

Ion Ratio Lower Upper

43 100

58 29.6 23.1 34.7



#17

Carbon Disulfide

Concen: 0.244 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058963.D

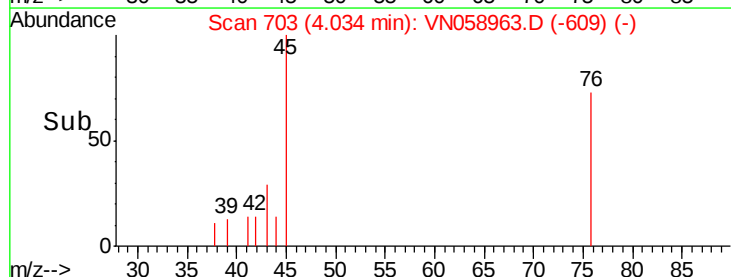
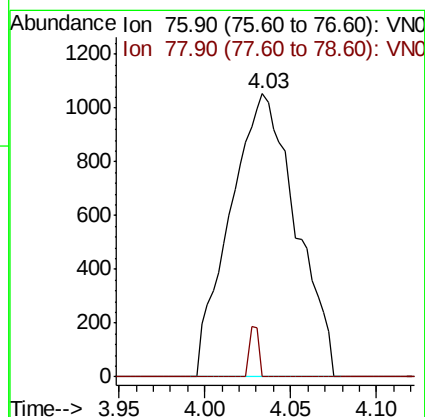
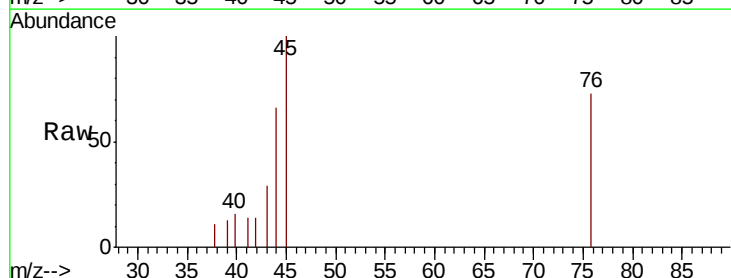
Acq: 24 Oct 2019 15:56

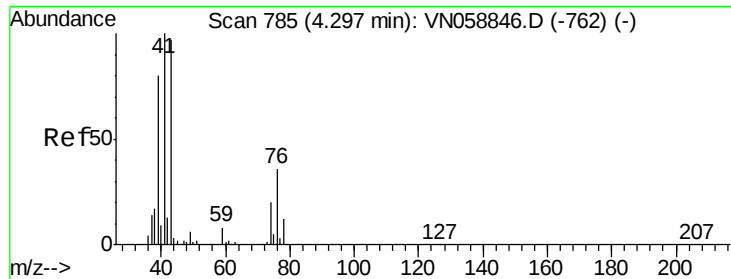
Tgt Ion: 76 Resp: 2799

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

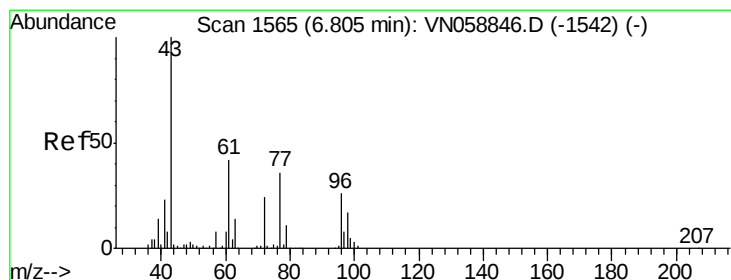
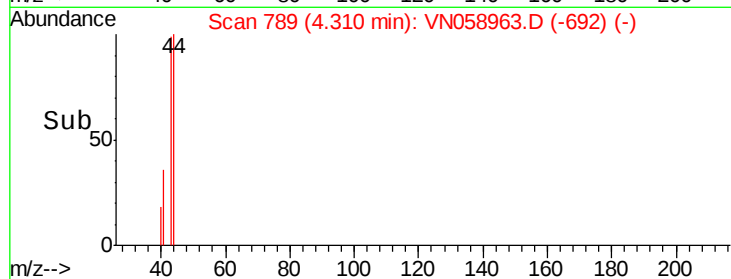
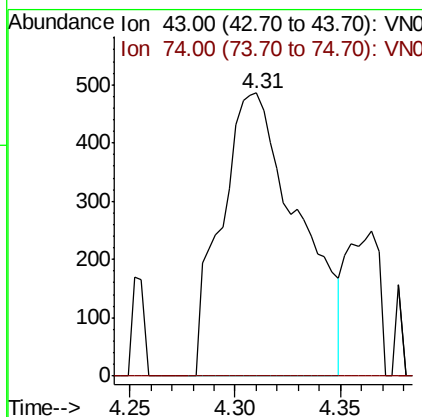
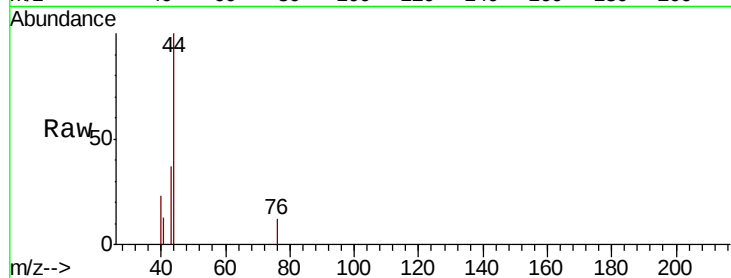




#18
Methyl Acetate
Concen: 0.209 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058963.D
Acq: 24 Oct 2019 15:56

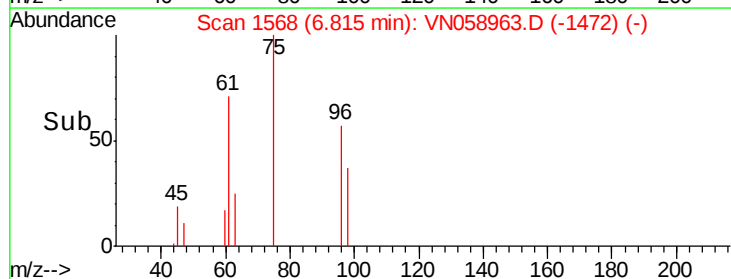
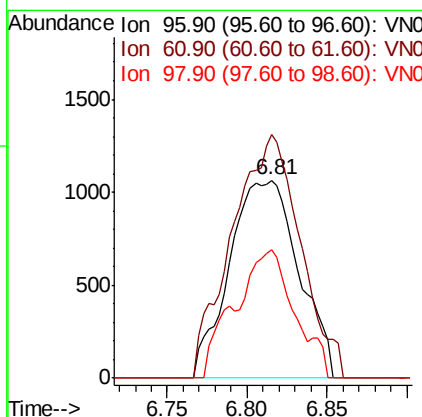
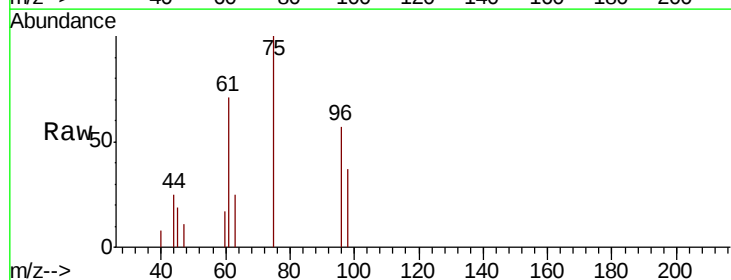
Instrument :
MSVOA_N
ClientSampled :

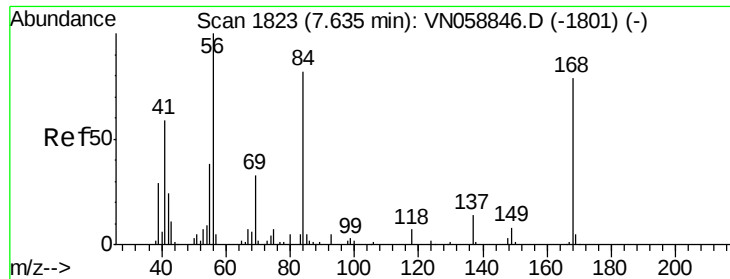
Tot Ion: 43 Resp: 1243
Ion Ratio Lower Upper
43 100
74 0.0 17.1 25.7#



#27
cis-1,2-Dichloroethene
Concen: 0.708 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VN058963.D
Acq: 24 Oct 2019 15:56

Tgt Ion: 96 Resp: 3175
Ion Ratio Lower Upper
96 100
61 121.5 0.0 325.0
98 42.5 0.0 128.0

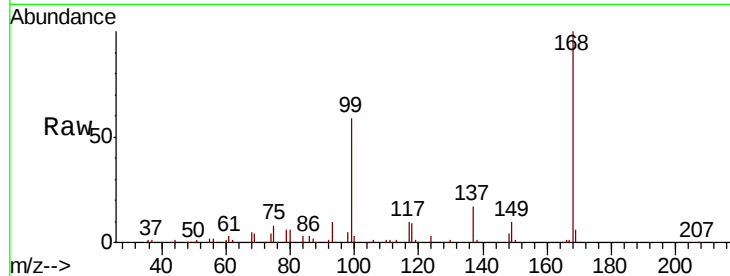




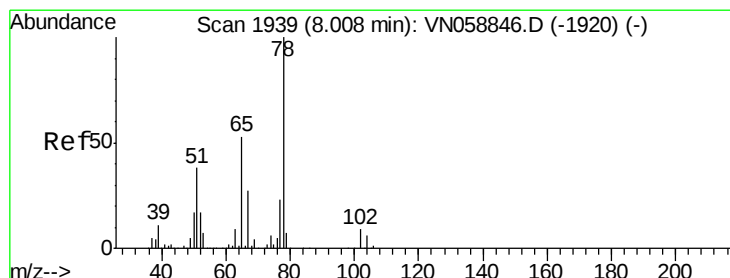
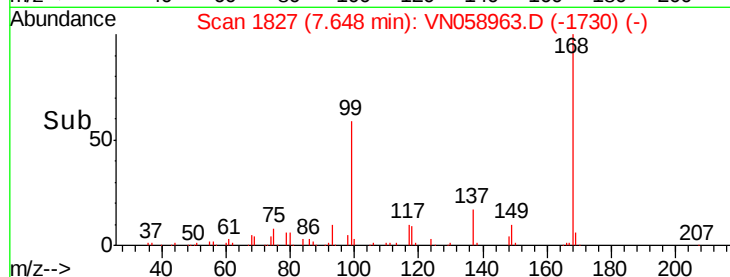
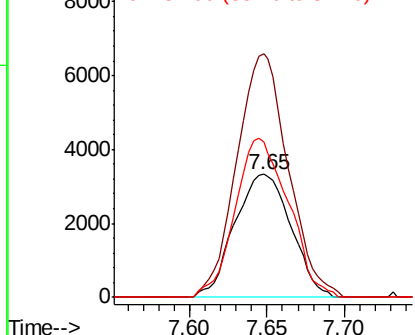
#31
Cyclohexane
Concen: 1.112 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. 0.01 min
Lab File: VN058963.D
Acq: 24 Oct 2019 15:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 8454
Ion Ratio Lower Upper
56 100
69 198.0 26.2 39.4#
84 126.0 65.6 98.4#

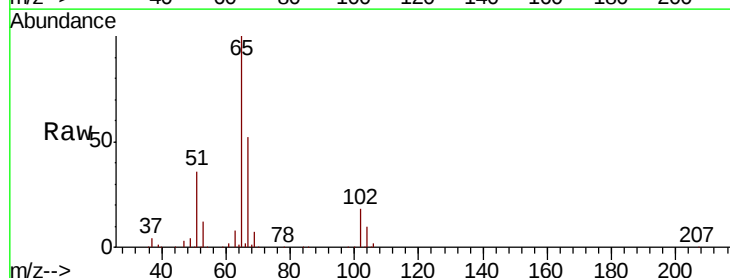


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

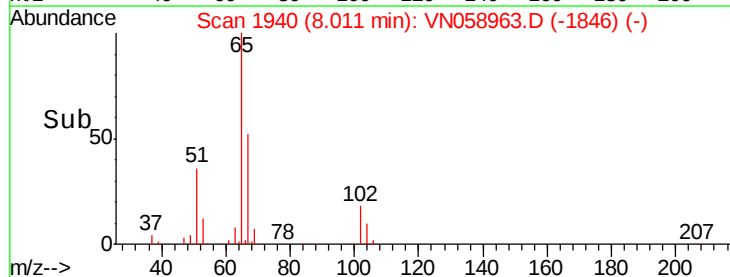
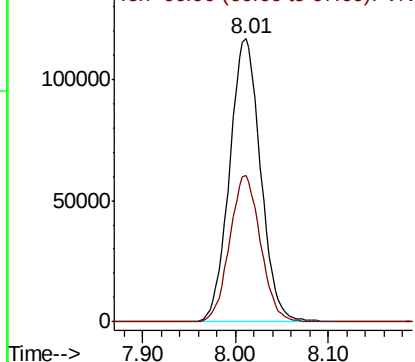


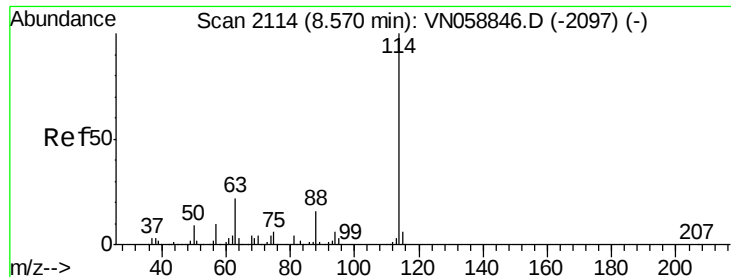
#33
1,2-Dichloroethane-d4
Concen: 51.255 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058963.D
Acq: 24 Oct 2019 15:56

Tgt Ion: 65 Resp: 271075
Ion Ratio Lower Upper
65 100
67 51.6 0.0 103.2



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

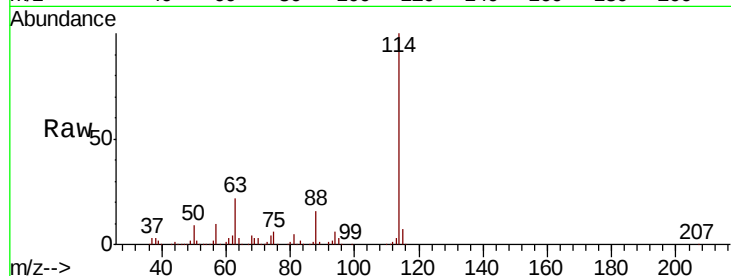




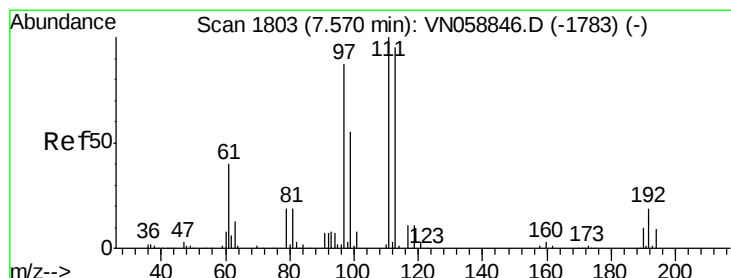
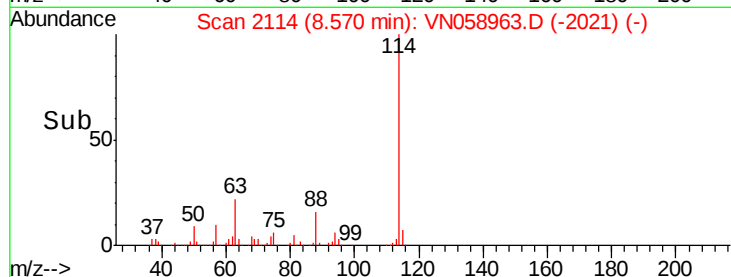
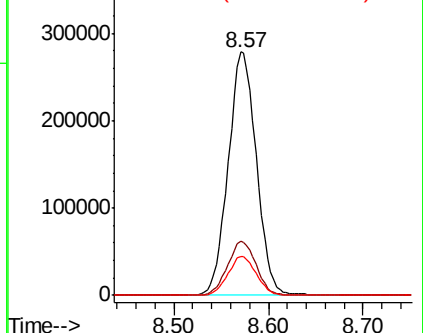
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN058963.D
 Acq: 24 Oct 2019 15:56

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.2	0.0	44.4
88	16.0	0.0	31.4

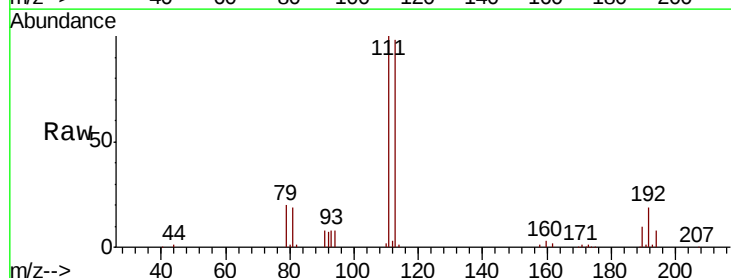


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

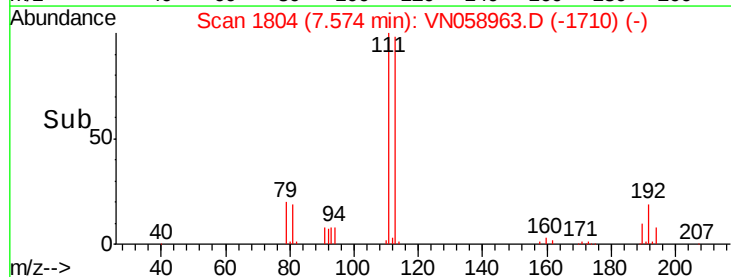
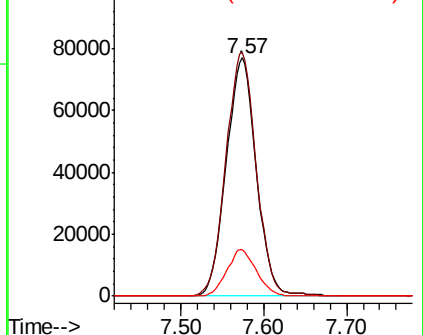


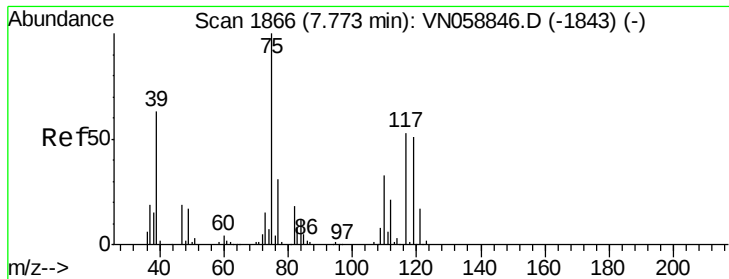
#35
 Dibromofluoromethane
 Concen: 51.081 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058963.D
 Acq: 24 Oct 2019 15:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.1	82.0	123.0
192	19.2	15.0	22.6



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: 5.155 ug/l

RT: 7.65 min Scan# 1827

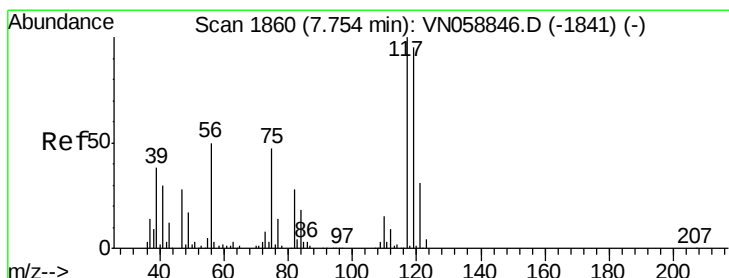
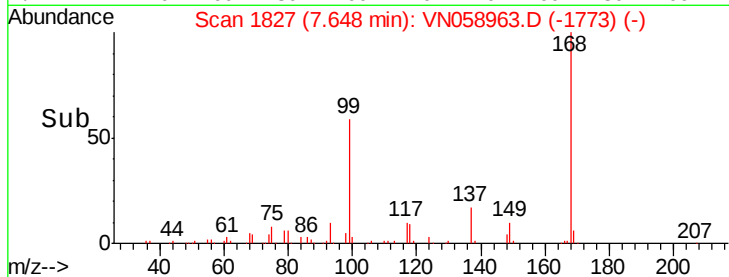
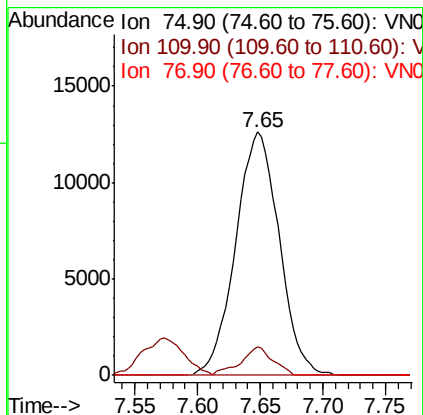
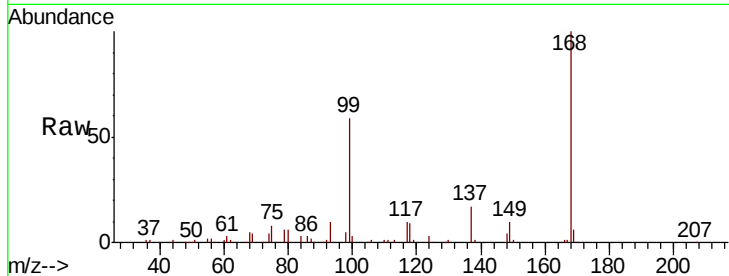
Delta R.T. -0.13 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:	75	Resp:	30497
Ion	Ratio	Lower	Upper
75	100		
110	8.5	16.3	48.9#
77	0.0	24.6	36.8#



#38

Carbon Tetrachloride

Concen: 5.966 ug/l

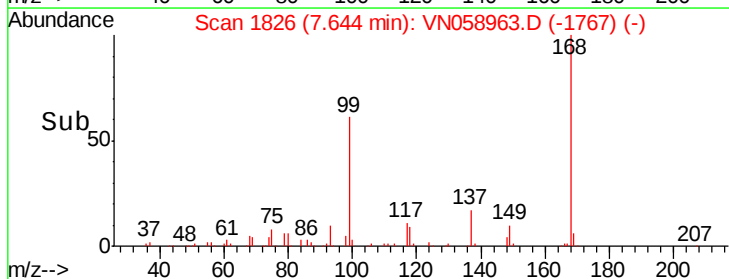
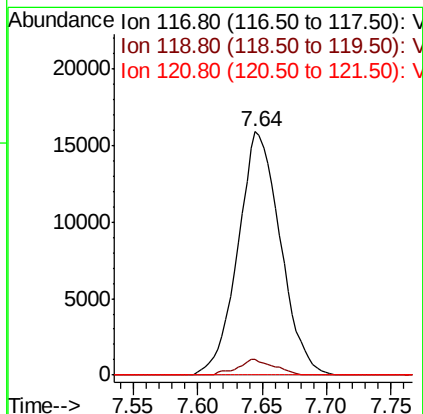
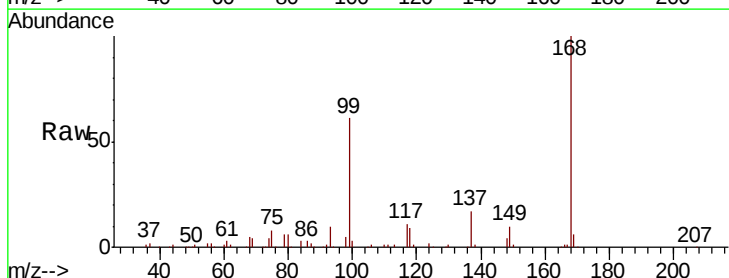
RT: 7.64 min Scan# 1826

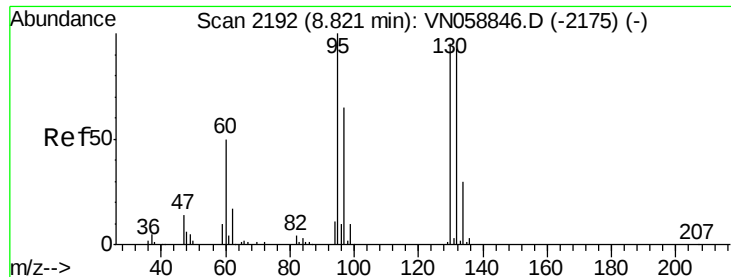
Delta R.T. -0.11 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Tgt Ion:	117	Resp:	36360
Ion	Ratio	Lower	Upper
117	100		
119	6.6	75.7	113.5#
121	0.0	25.0	37.6#

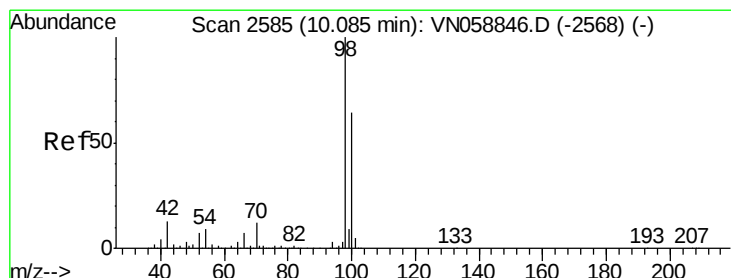
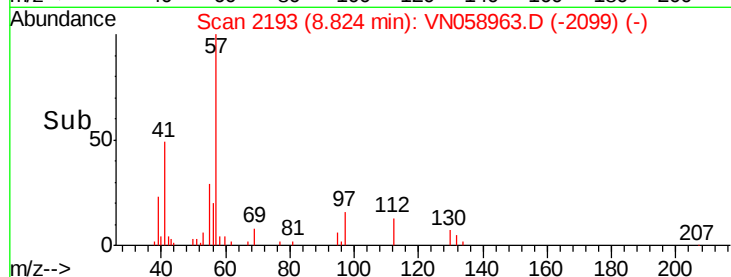
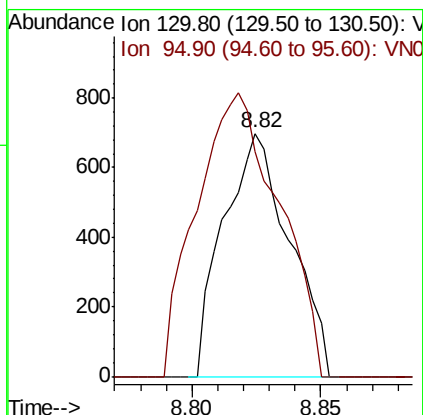
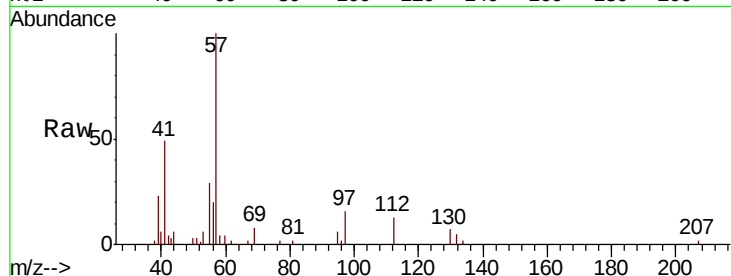




#44
 Trichloroethene
 Concen: 0.294 ug/l
 RT: 8.82 min Scan# 2193
 Delta R.T. 0.00 min
 Lab File: VN058963.D
 Acq: 24 Oct 2019 15:56

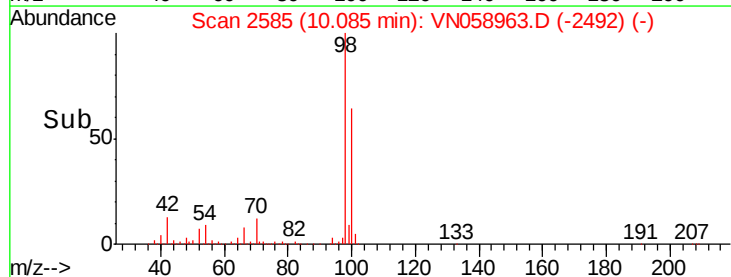
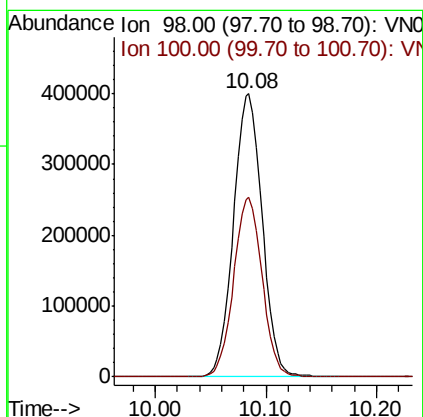
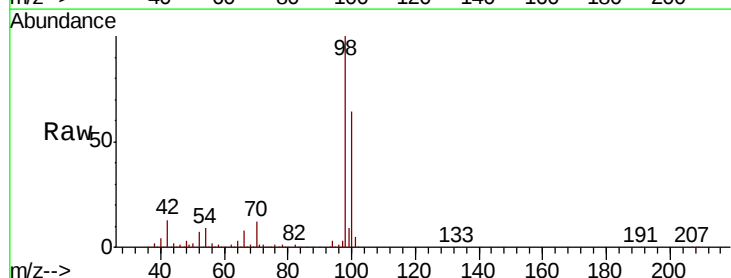
Instrument :
 MSVOA_N
 ClientSampled :

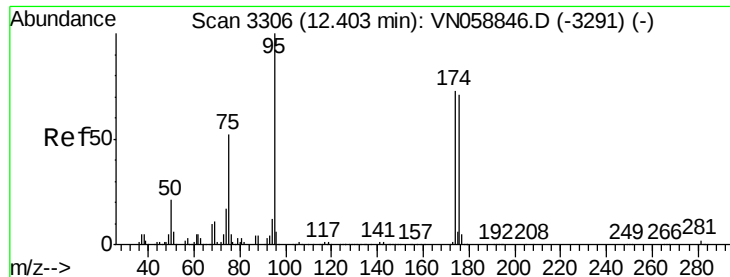
Tot Ion:130 Resp: 1245
 Ion Ratio Lower Upper
 130 100
 95 92.4 0.0 209.6



#50
 Toluene-d8
 Concen: 48.982 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. 0.00 min
 Lab File: VN058963.D
 Acq: 24 Oct 2019 15:56

Tgt Ion: 98 Resp: 722410
 Ion Ratio Lower Upper
 98 100
 100 63.2 51.4 77.2





#62

4-Bromofluorobenzene

Concen: 41.685 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :

MSVOA_N

ClientSampleId :

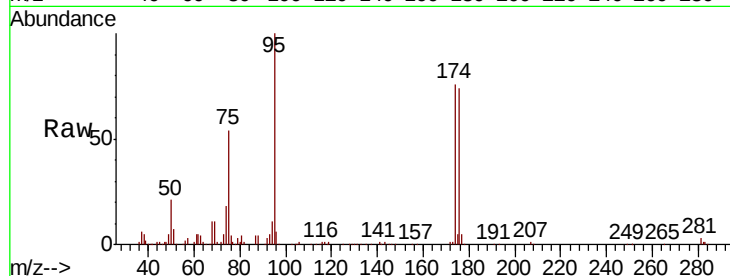
Tot Ion: 95 Resp: 225767

Ion Ratio Lower Upper

95 100

174 75.7 0.0 147.6

176 73.2 0.0 143.2

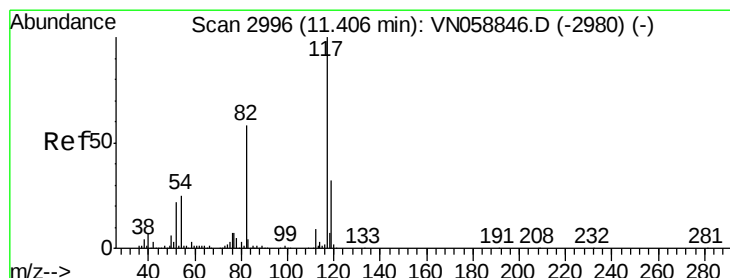
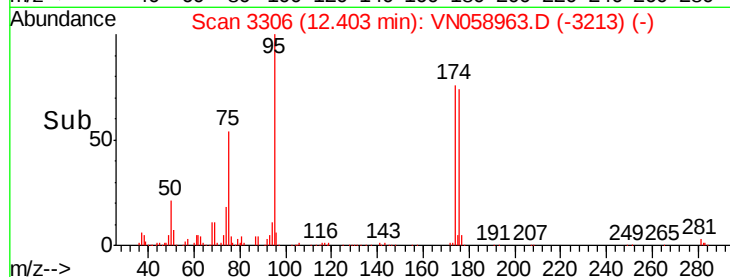


Abundance Ion 94.90 (94.60 to 95.60): VN058846.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058846.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058846.D (-3291) (-)

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

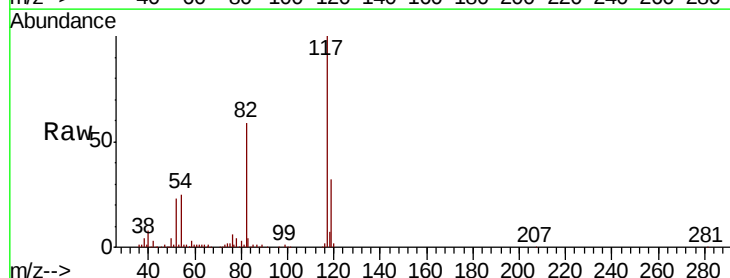
Tgt Ion: 117 Resp: 506460

Ion Ratio Lower Upper

117 100

82 58.6 46.6 69.8

119 31.7 25.6 38.4

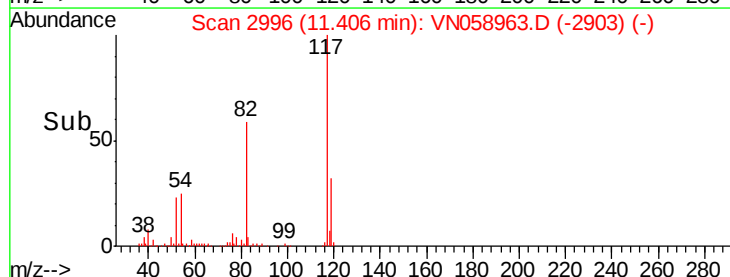


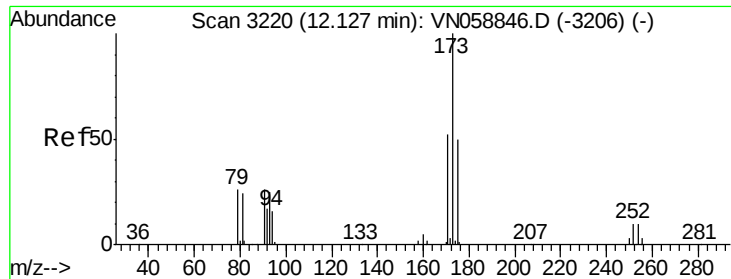
Abundance Ion 116.90 (116.60 to 117.60): VN058846.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058846.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058846.D (-2980) (-)

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.412 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :

MSVOA_N

ClientSampled :

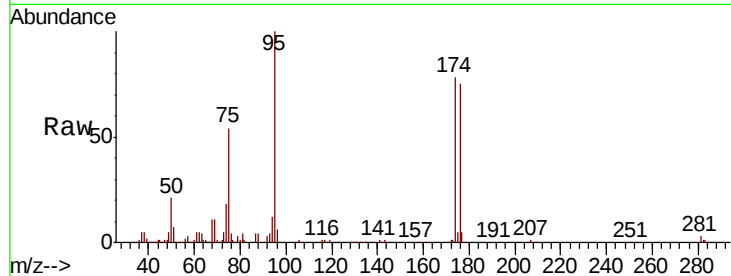
Tot Ion:173 Resp: 1243

Ion Ratio Lower Upper

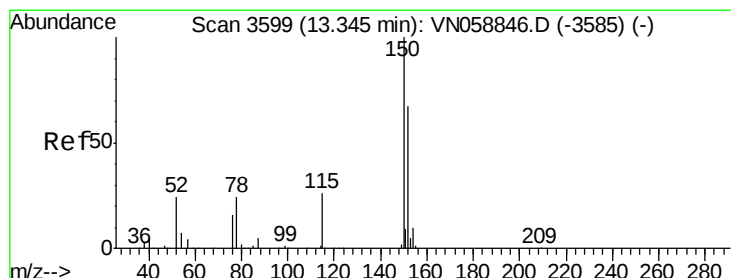
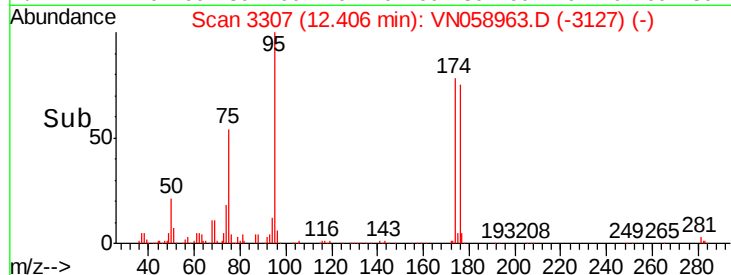
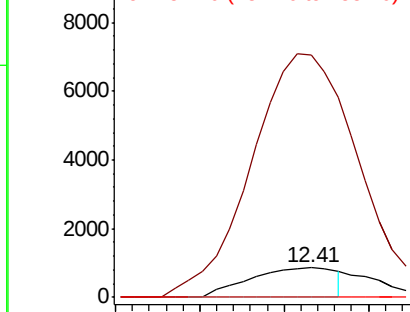
173 100

175 792.0 24.7 74.1#

254 0.0 0.0 0.0



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: VN058963.D

Acq: 24 Oct 2019 15:56

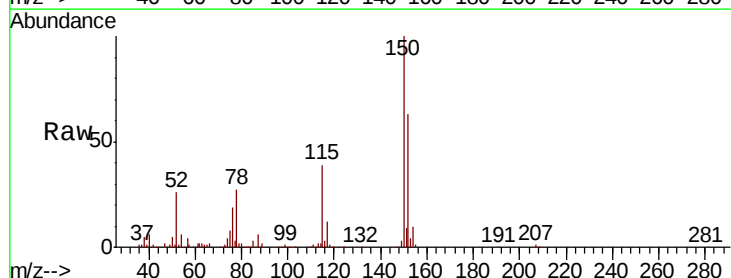
Tgt Ion:152 Resp: 181758

Ion Ratio Lower Upper

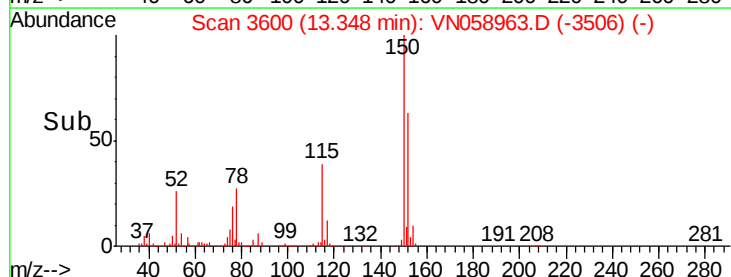
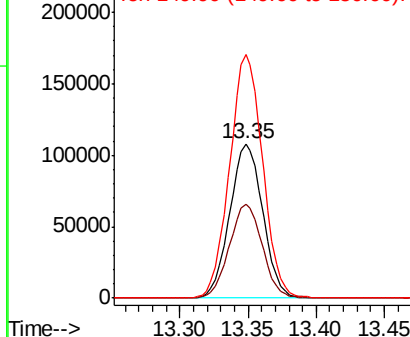
152 100

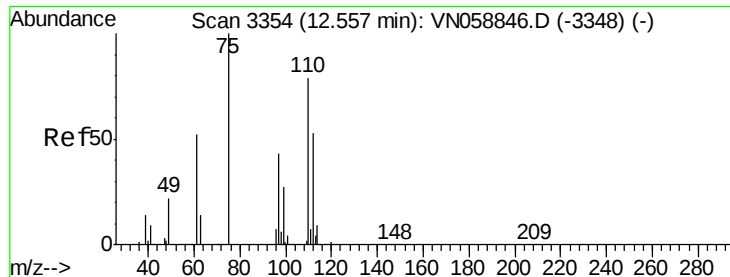
115 60.5 30.5 91.5

150 157.5 0.0 344.4



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: 28.760 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :

MSVOA_N

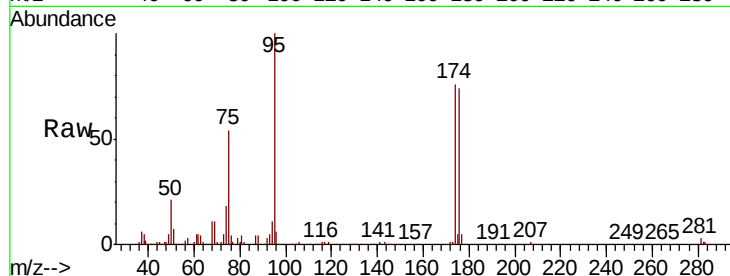
ClientSampleId :

Tot Ion: 75 Resp: 121150

Ion Ratio Lower Upper

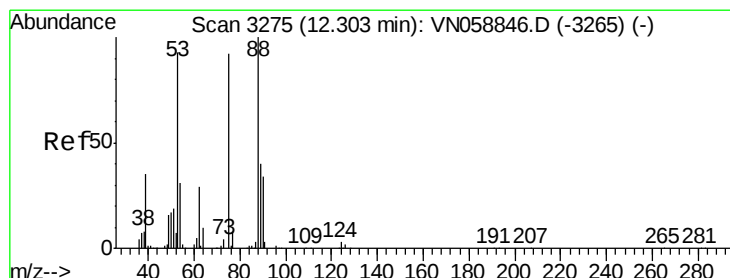
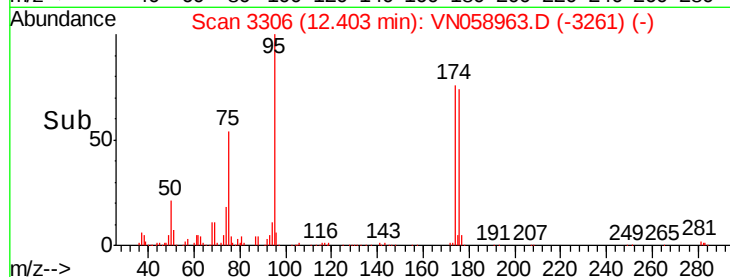
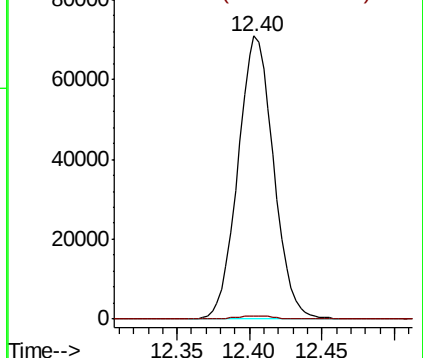
75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 74.922 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

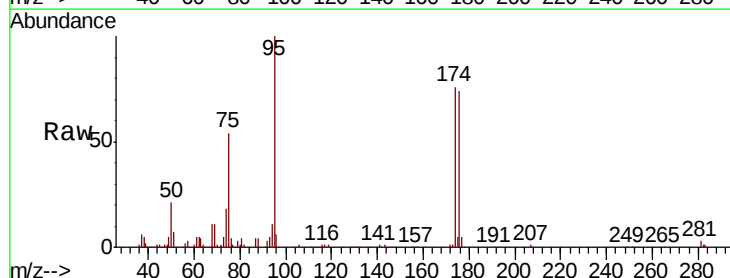
Tgt Ion: 75 Resp: 121150

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

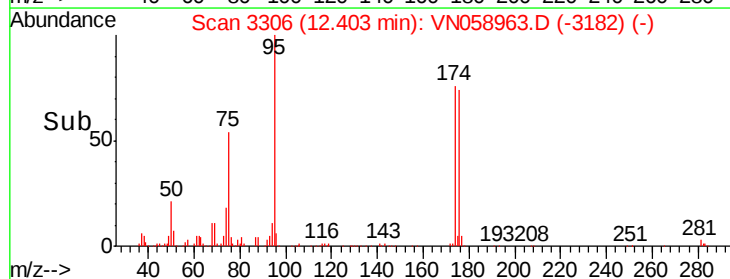
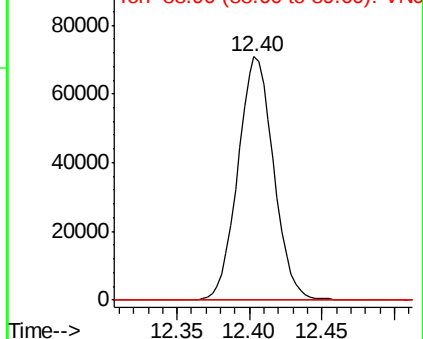
89 0.0 35.4 53.0#

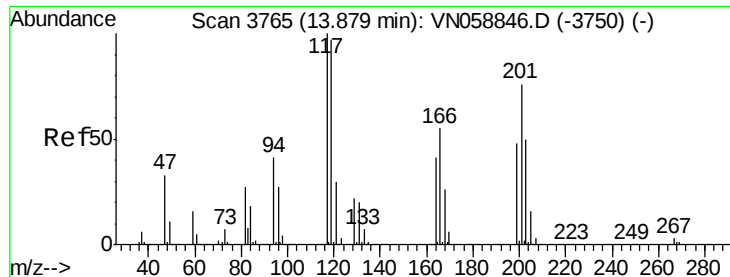


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#90

Hexachloroethane

Concen: 0.214 ug/l

RT: 14.00 min Scan# 3804

Delta R.T. 0.13 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :

MSVOA_N

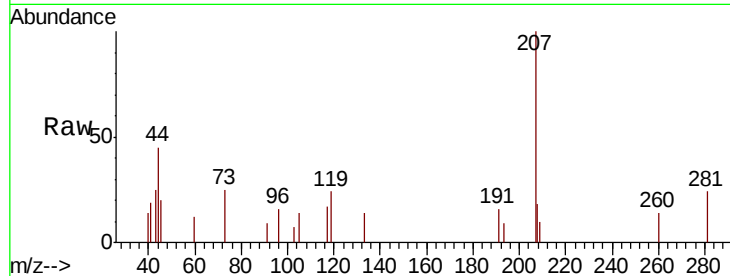
ClientSampled :

Tot Ion:117 Resp: 486

Ion Ratio Lower Upper

117 100

201 0.0 38.9 116.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

14.00

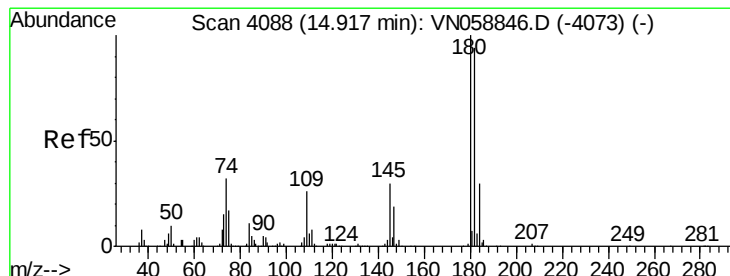
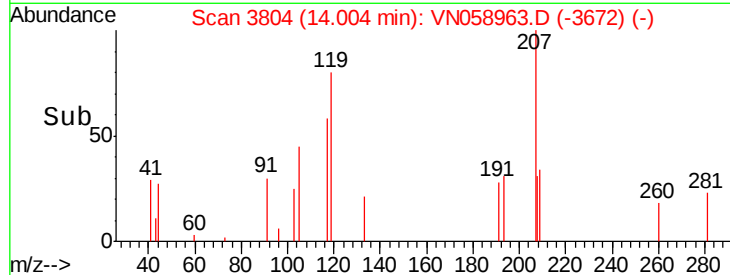
300

200

100

0

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.616 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. -0.00 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

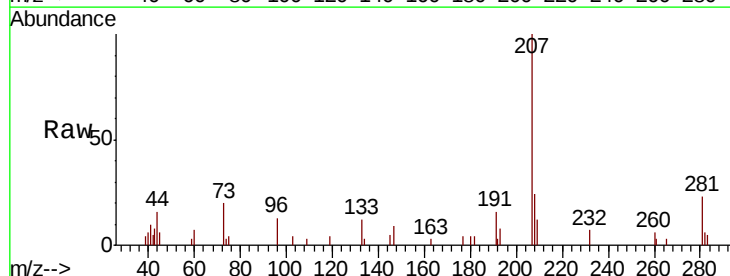
Tgt Ion:180 Resp: 365

Ion Ratio Lower Upper

180 100

182 109.6 47.3 142.0

145 202.5 15.3 45.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

14.91

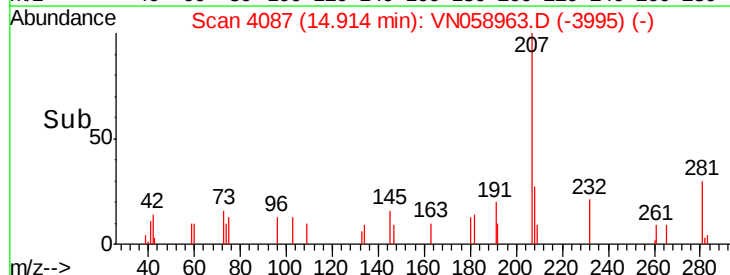
300

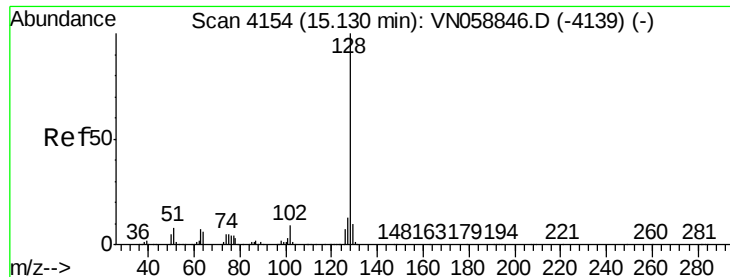
200

100

0

Time-->





#95

Naphthalene

Concen: 2.387 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

Instrument :

MSVOA_N

ClientSampled :

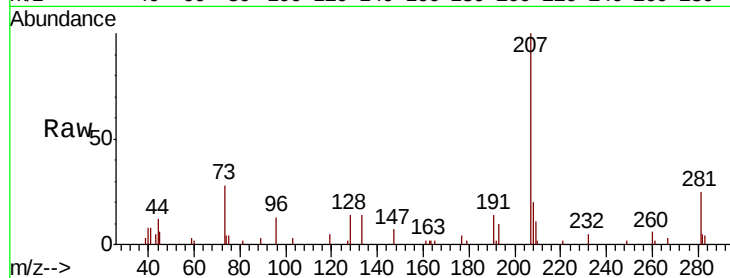
Tot Ion:128 Resp: 1765

Ion Ratio Lower Upper

128 100

127 3.9 10.2 15.2#

129 7.4 8.4 12.6#



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

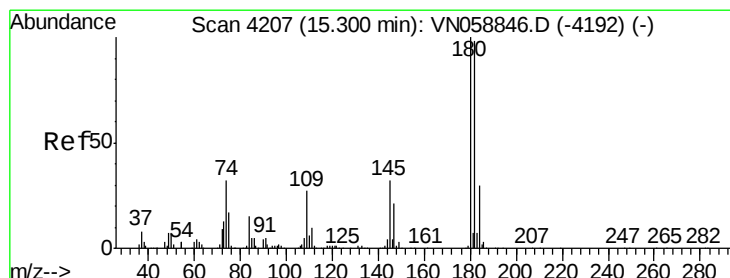
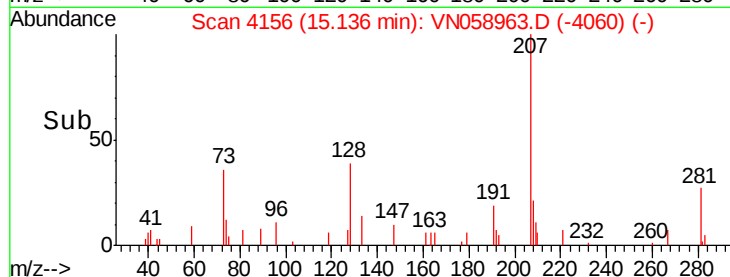
15.14

1000

500

0

Time-->



#96

1,2,3-Trichlorobenzene

Concen: 2.560 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN058963.D

Acq: 24 Oct 2019 15:56

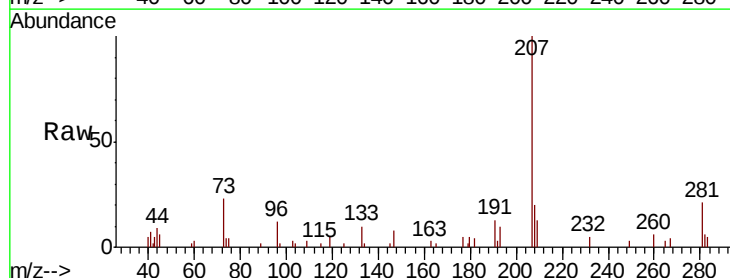
Tgt Ion:180 Resp: 613

Ion Ratio Lower Upper

180 100

182 67.4 47.9 143.7

145 67.5 15.9 47.7#



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

15.30

500

400

300

200

100

0

Time-->

