

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111819\
 Data File : VN059284.D
 Acq On : 18 Nov 2019 15:22
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 19 00:47:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	473993	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	724960	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	635632	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	255809	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	271911	46.67	ug/l	0.00
Spiked Amount			Recovery	=	93.34%	
35) Dibromofluoromethane	7.57	113	218496	50.48	ug/l	0.00
Spiked Amount			Recovery	=	100.96%	
50) Toluene-d8	10.08	98	883492	51.82	ug/l	0.00
Spiked Amount			Recovery	=	103.64%	
62) 4-Bromofluorobenzene	12.40	95	296616	48.25	ug/l	0.00
Spiked Amount			Recovery	=	96.50%	

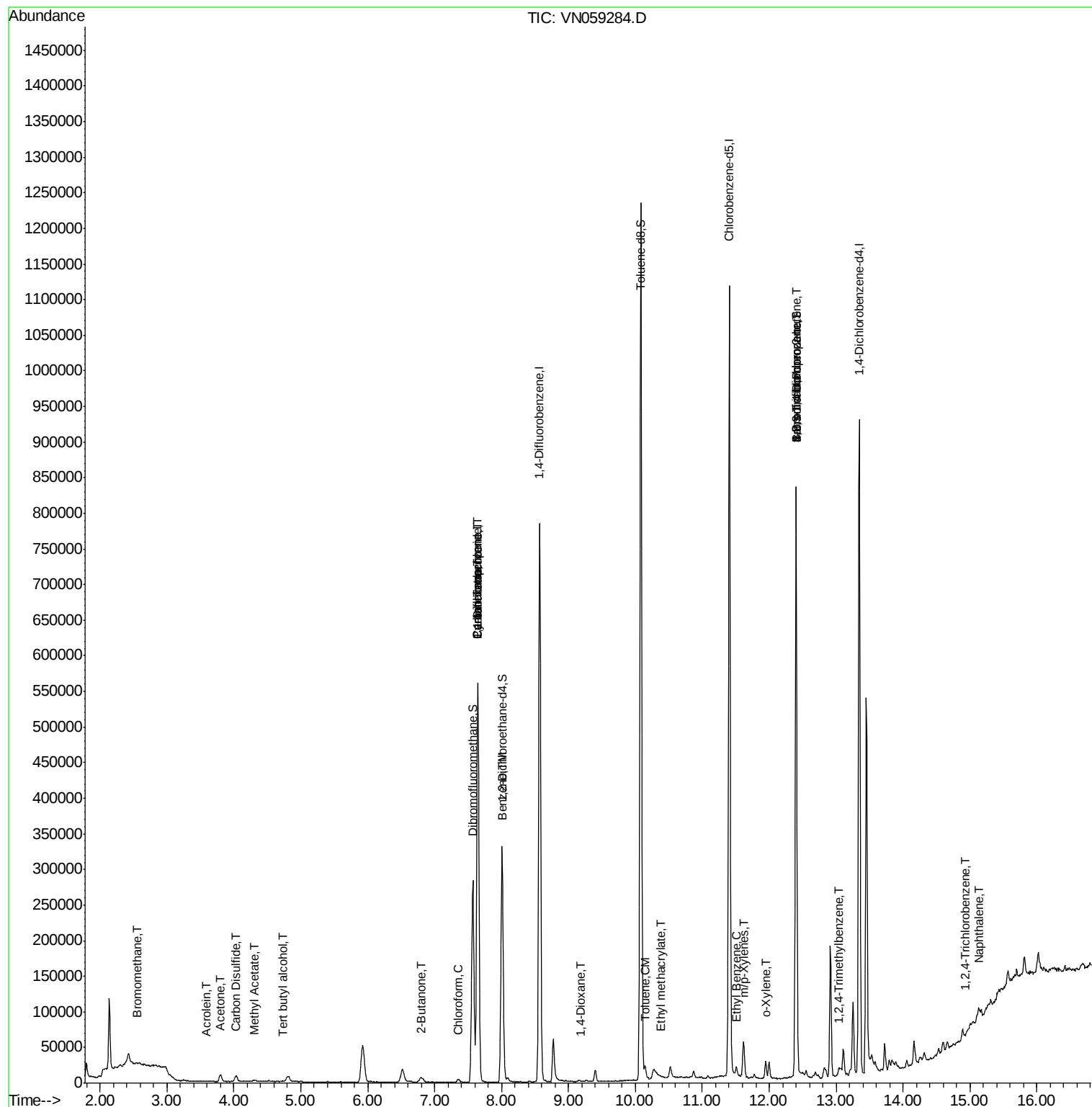
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.55	94	1031	0.285	ug/l	99
11) Tert butyl alcohol	4.74	59	239	0.215	ug/l #	72
13) Acrolein	3.58	56	130	0.227	ug/l #	1
16) Acetone	3.80	43	17162	5.664	ug/l	92
17) Carbon Disulfide	4.03	76	14268	1.040	ug/l #	76
18) Methyl Acetate	4.31	43	3755	0.522	ug/l #	67
25) 2-Butanone	6.81	43	1225	0.307	ug/l	96
30) Chloroform	7.35	83	4860	0.529	ug/l	92
31) Cyclohexane	7.64	56	8905	0.982	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	34888	5.149	ug/l #	50
38) Carbon Tetrachloride	7.64	117	43975	6.520	ug/l #	16
40) Benzene	8.02	78	5265	0.258	ug/l	98
49) 1,4-Dioxane	9.19	88	137	1.434	ug/l #	67
52) Toluene	10.15	92	6288	0.514	ug/l	99
56) Ethyl methacrylate	10.38	69	64	1.881	ug/l #	25
67) Ethyl Benzene	11.51	91	8222	0.374	ug/l	97
68) m/p-Xylenes	11.61	106	16437	1.996	ug/l	98
69) o-Xylene	11.95	106	6238	0.784	ug/l	99
71) Bromoform	12.40	173	756	0.209	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	142894	24.536	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	142894	64.806	ug/l #	13
84) 1,2,4-Trimethylbenzene	13.04	105	8393	0.550	ug/l	84
93) 1,2,4-Trichlorobenzene	14.92	180	148	3.075	ug/l #	1
95) Naphthalene	15.13	128	11972	3.893	ug/l #	95

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

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QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

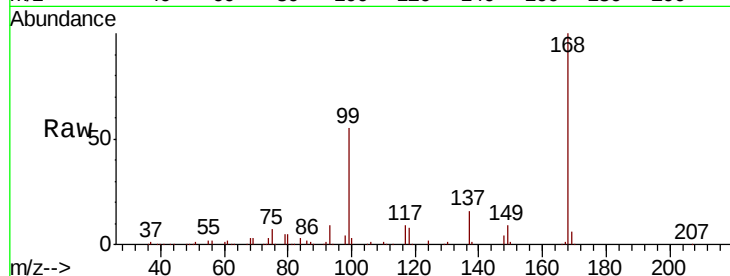
ClientSampled :

Tot Ion:168 Resp: 473993

Ion Ratio Lower Upper

168 100

99 55.1 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

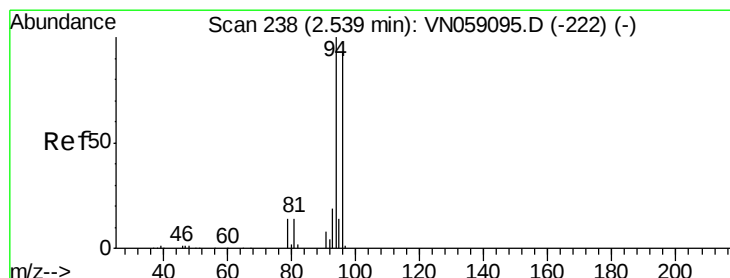
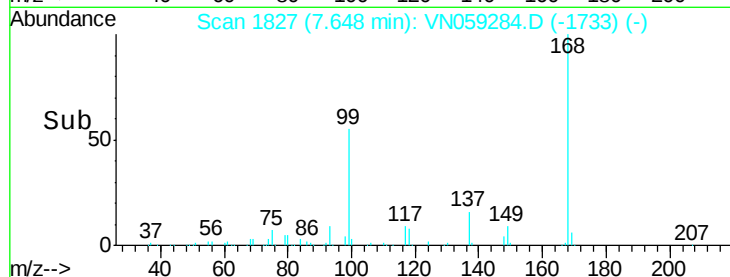
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.285 ug/l

RT: 2.55 min Scan# 241

Delta R.T. 0.01 min

Lab File: VN059284.D

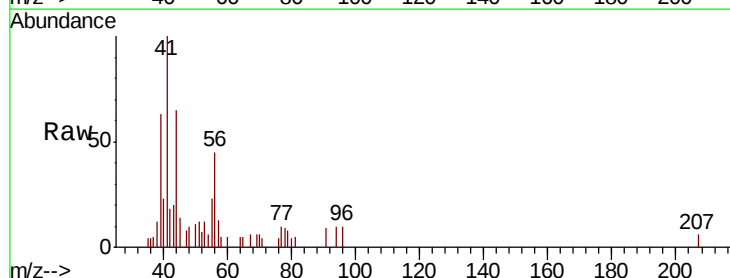
Acq: 18 Nov 2019 15:22

Tgt Ion: 94 Resp: 1031

Ion Ratio Lower Upper

94 100

96 94.1 74.2 111.2



Abundance Ion 93.90 (93.60 to 94.60): VN

Ion 95.90 (95.60 to 96.60): VN

2.55

500

400

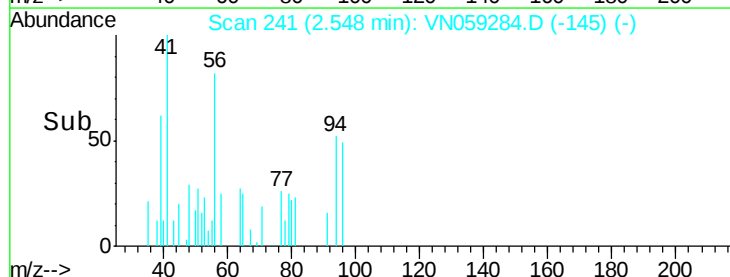
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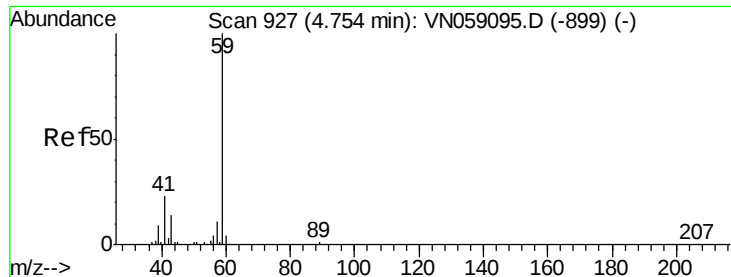
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100

0

Time-->

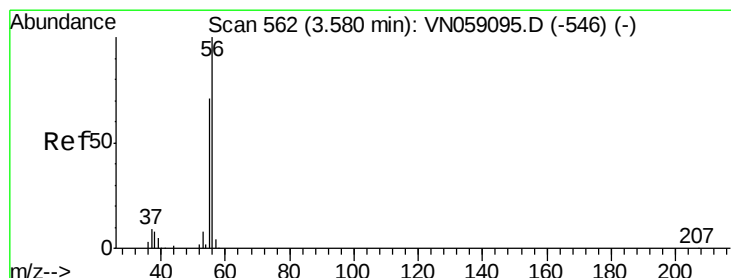
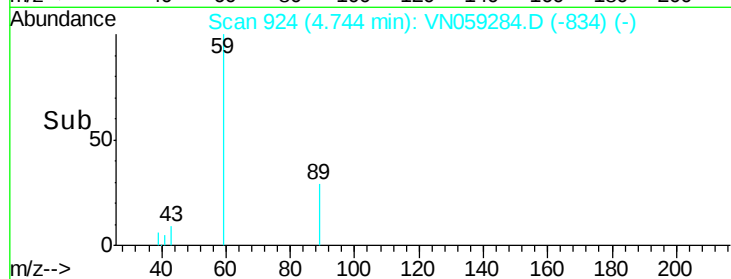
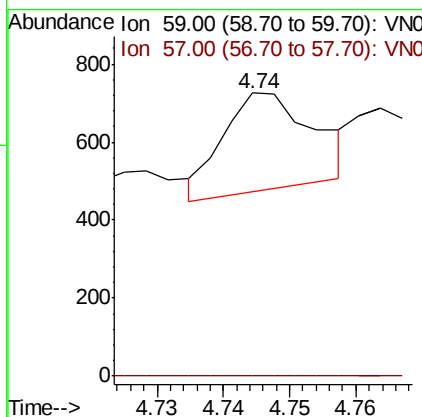
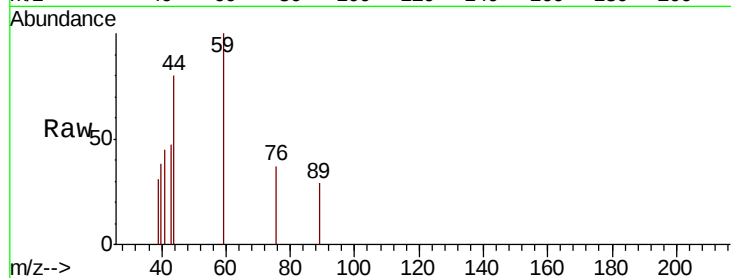




#11
Tert butyl alcohol
Concen: 0.215 ug/l
RT: 4.74 min Scan# 924
Delta R.T. -0.01 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

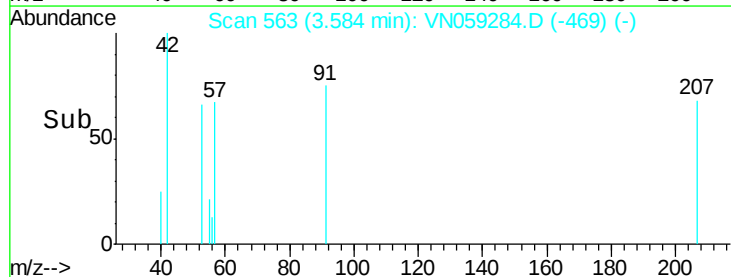
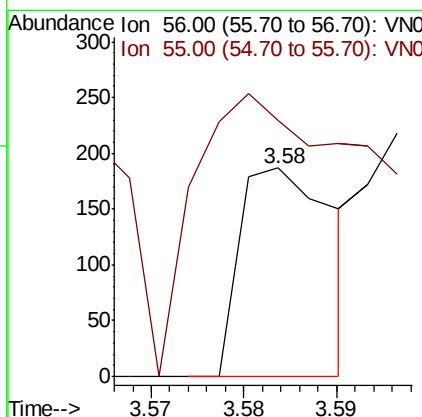
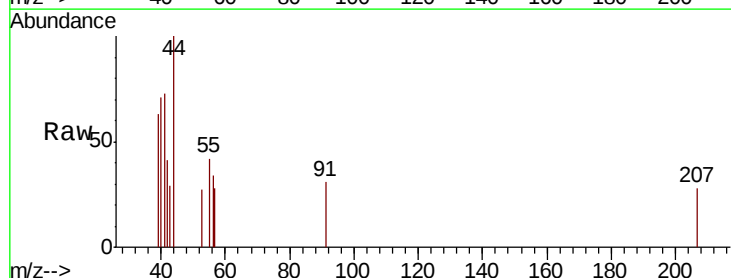
Instrument :
MSVOA_N
ClientSampleId :

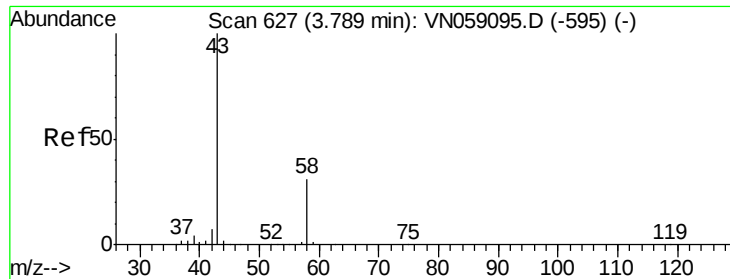
Tot Ion: 59 Resp: 239
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.227 ug/l
RT: 3.58 min Scan# 563
Delta R.T. 0.00 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Tgt Ion: 56 Resp: 130
Ion Ratio Lower Upper
56 100
55 250.0 56.4 84.6#





#16

Acetone

Concen: 5.664 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

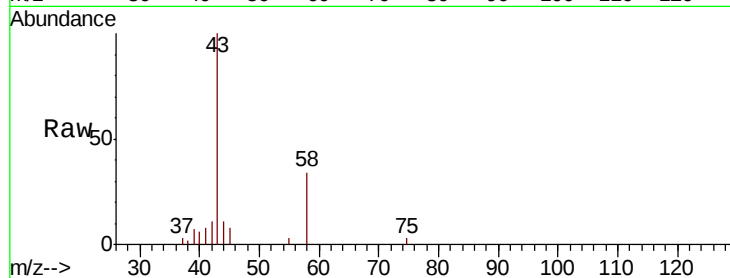
ClientSampleId :

Tot Ion: 43 Resp: 17162

Ion Ratio Lower Upper

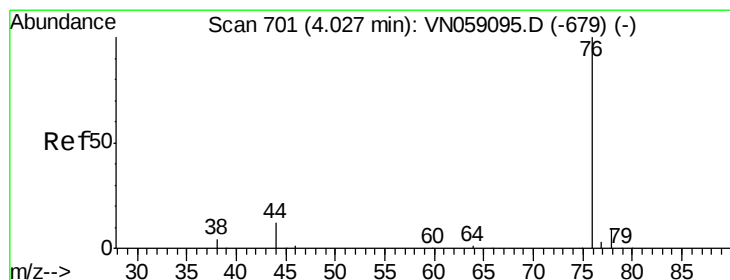
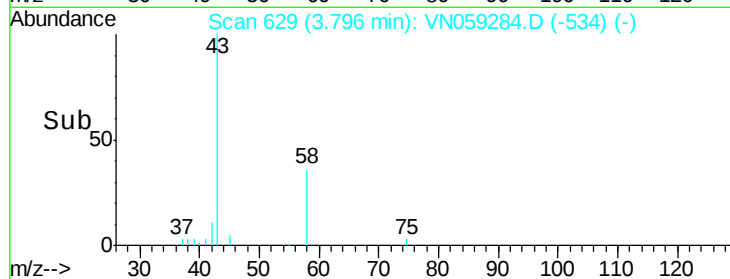
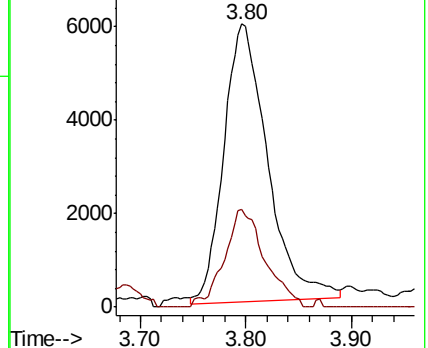
43 100

58 35.7 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN059284.D (-534) (-)

Ion 58.00 (57.70 to 58.70): VN059284.D (-534) (-)



#17

Carbon Disulfide

Concen: 1.040 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN059284.D

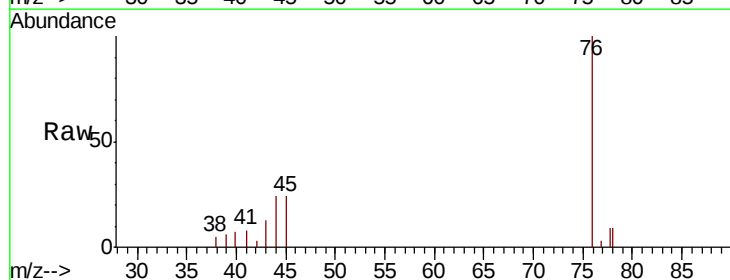
Acq: 18 Nov 2019 15:22

Tgt Ion: 76 Resp: 14268

Ion Ratio Lower Upper

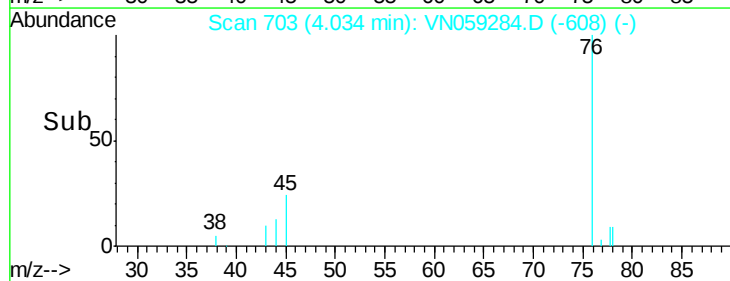
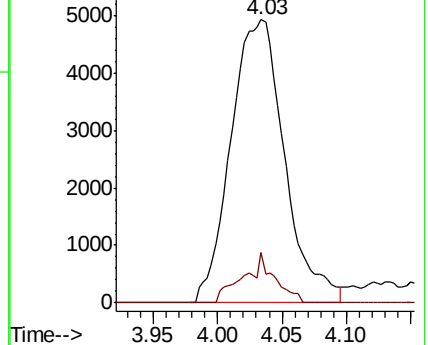
76 100

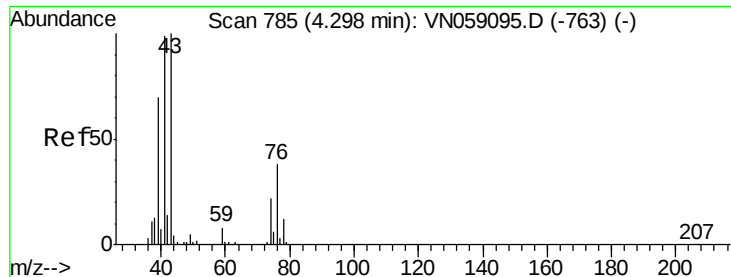
78 17.8 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN059284.D (-608) (-)

Ion 77.90 (77.60 to 78.60): VN059284.D (-608) (-)

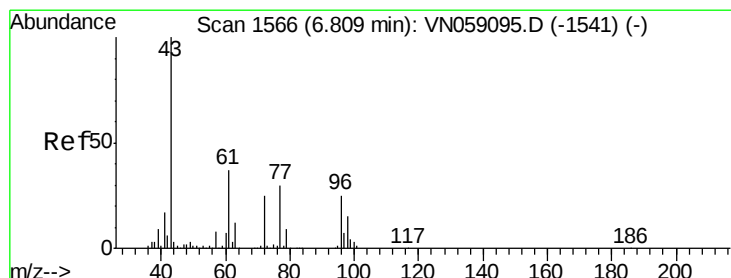
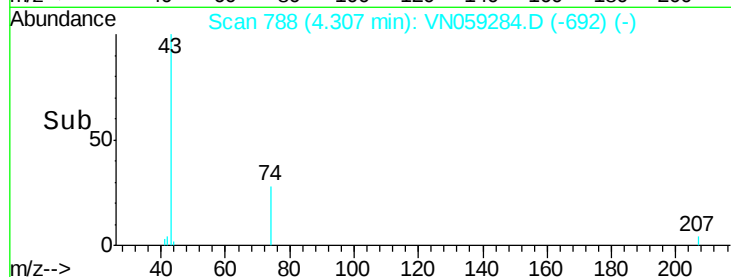
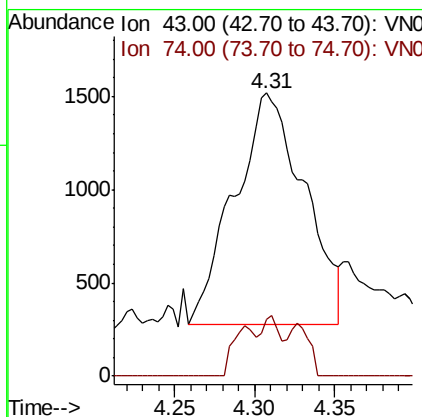
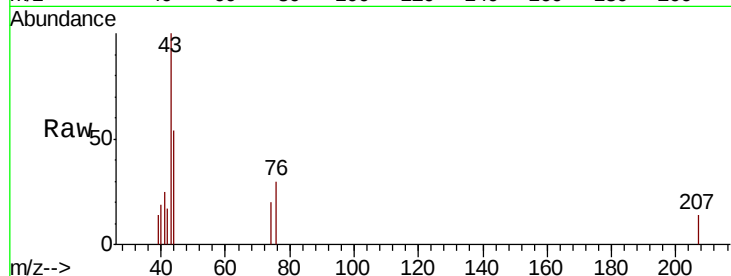




#18
Methyl Acetate
Concen: 0.522 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

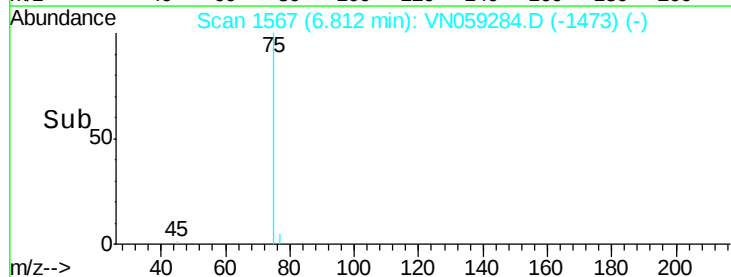
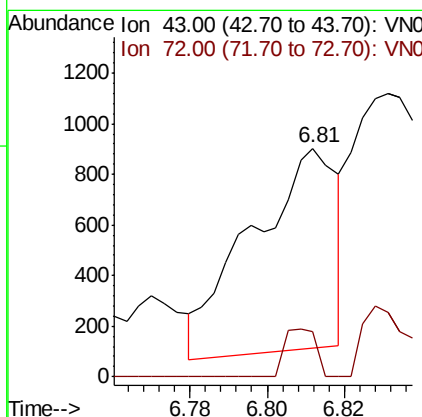
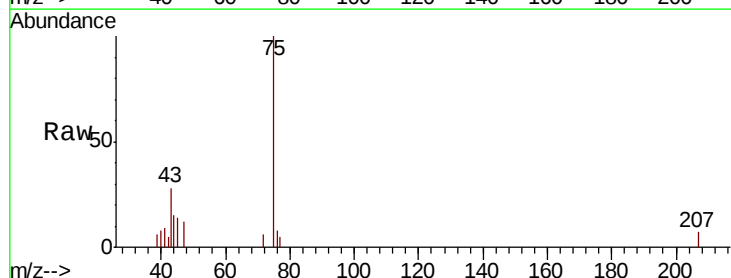
Instrument :
MSVOA_N
ClientSampled :

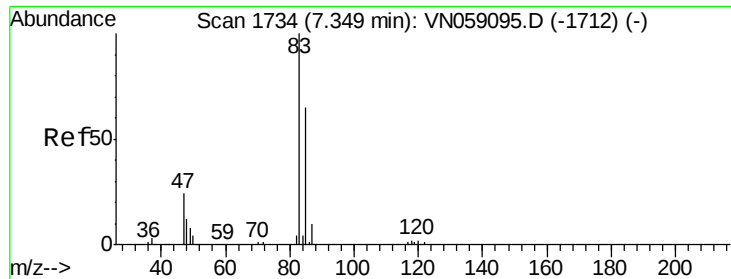
Tot Ion: 43 Resp: 3755
Ion Ratio Lower Upper
43 100
74 6.7 17.8 26.8#



#25
2-Butanone
Concen: 0.307 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Tgt Ion: 43 Resp: 1225
Ion Ratio Lower Upper
43 100
72 27.2 20.3 30.5

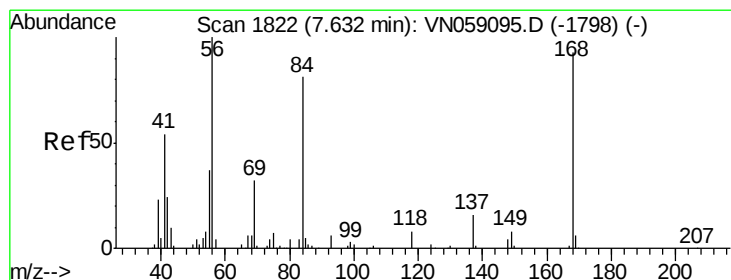
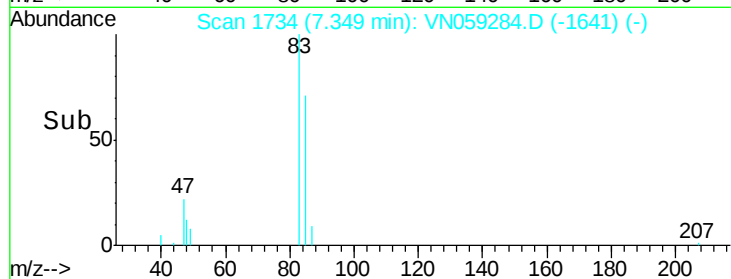
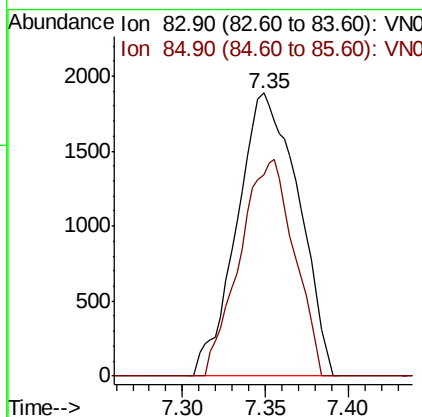
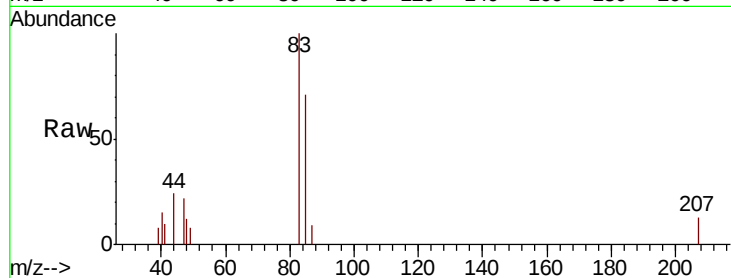




#30
 Chloroform
 Concen: 0.529 ug/l
 RT: 7.35 min Scan# 1734
 Delta R.T. -0.00 min
 Lab File: VN059284.D
 Acq: 18 Nov 2019 15:22

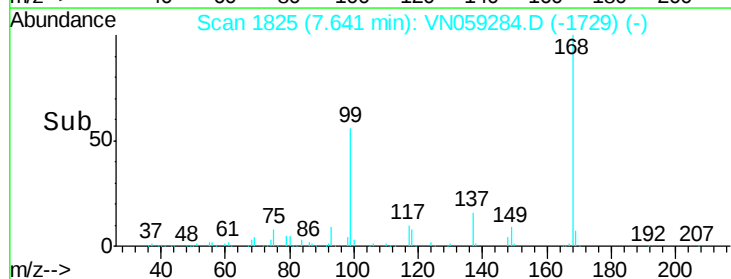
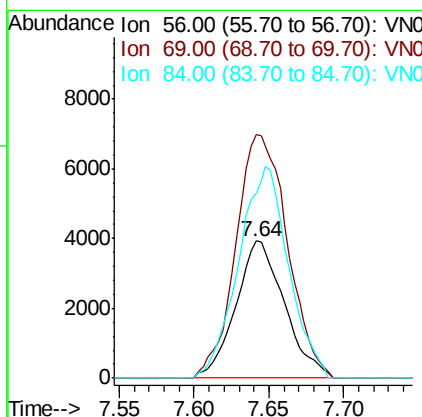
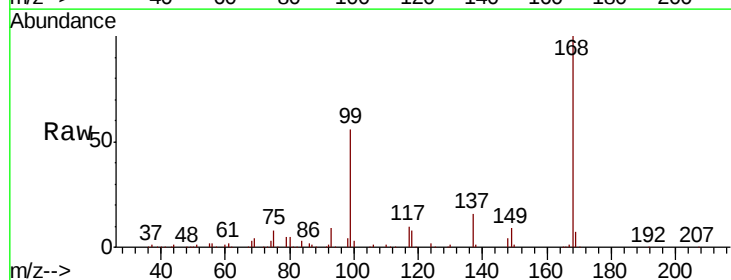
Instrument :
 MSVOA_N
 ClientSampleId :

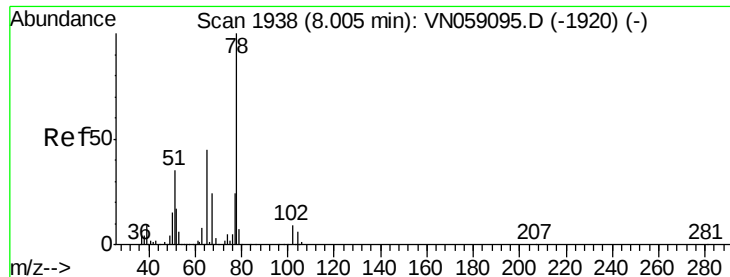
Tot Ion: 83 Resp: 4860
 Ion Ratio Lower Upper
 83 100
 85 71.2 51.8 77.8



#31
 Cyclohexane
 Concen: 0.982 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. 0.01 min
 Lab File: VN059284.D
 Acq: 18 Nov 2019 15:22

Tgt Ion: 56 Resp: 8905
 Ion Ratio Lower Upper
 56 100
 69 177.6 25.8 38.8#
 84 134.6 65.0 97.4#

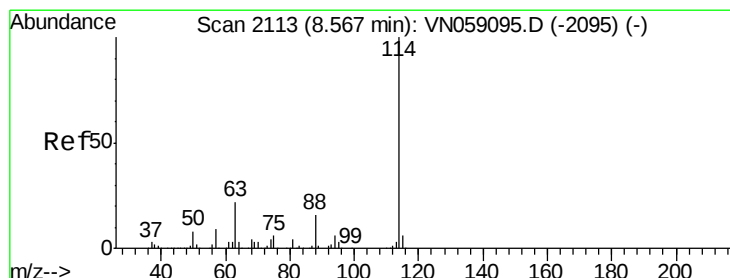
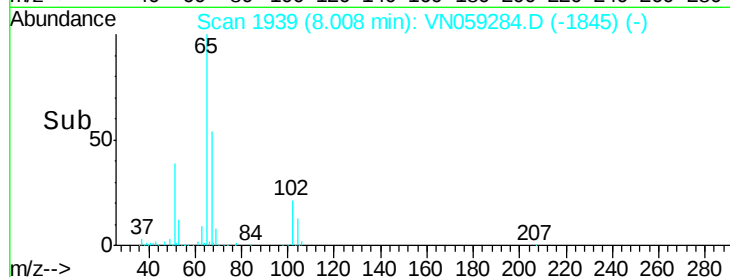
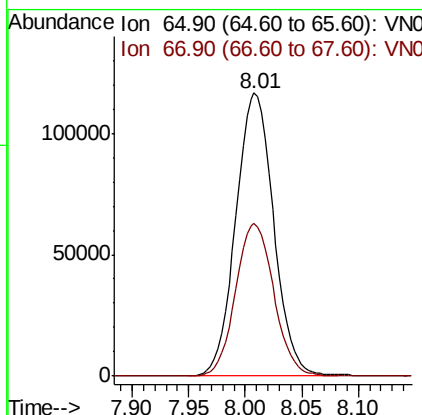
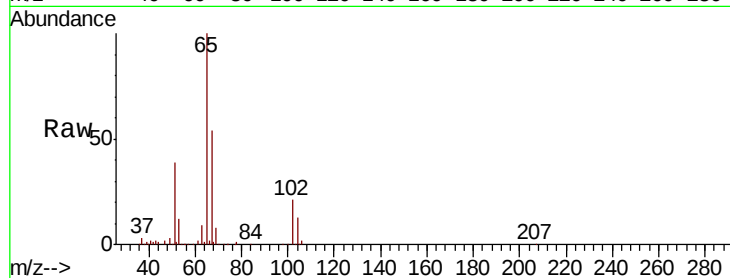




#33
 1,2-Dichloroethane-d4
 Concen: 46.667 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059284.D
 Acq: 18 Nov 2019 15:22

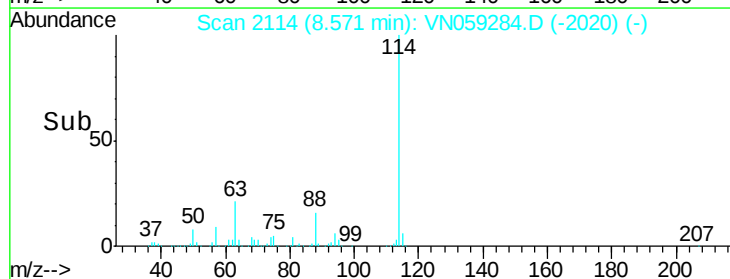
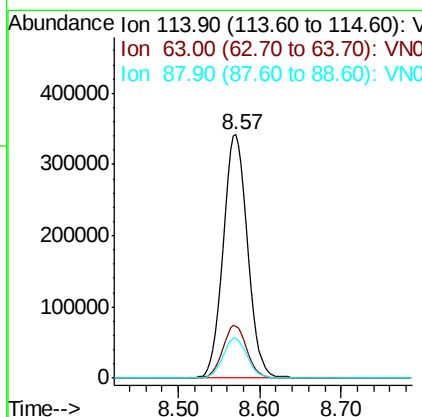
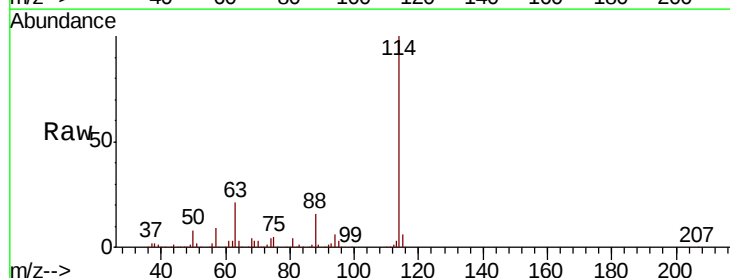
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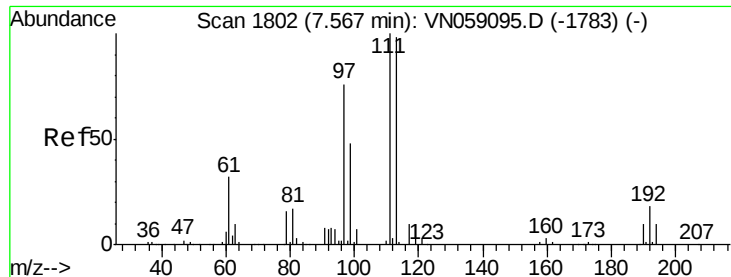
Tot Ion: 65 Resp: 271911
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN059284.D
 Acq: 18 Nov 2019 15:22

Tgt Ion: 114 Resp: 724960
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 43.4
 88 16.3 0.0 32.2

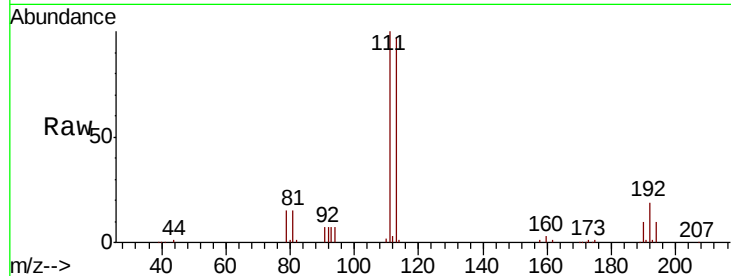




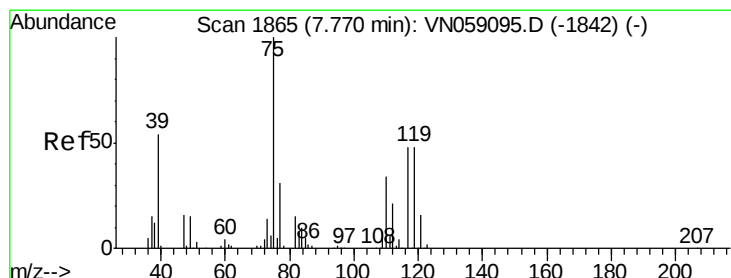
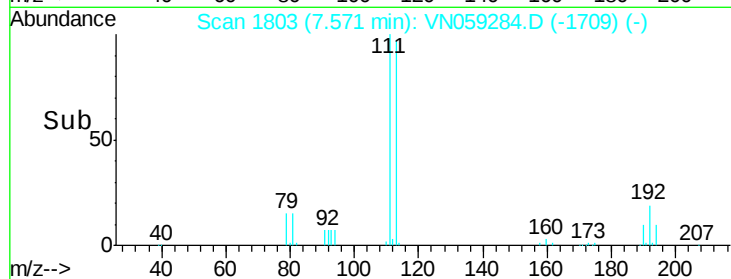
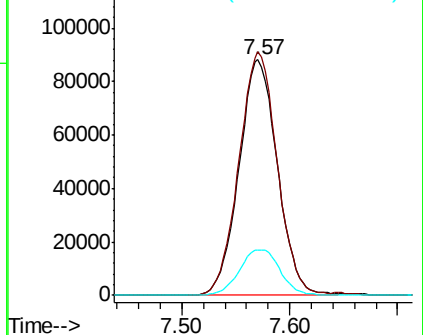
#35
Dibromofluoromethane
Concen: 50.476 ug/l
RT: 7.57 min Scan# 1803
Delta R.T. 0.00 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.8	124.2
192	20.4	16.1	24.1

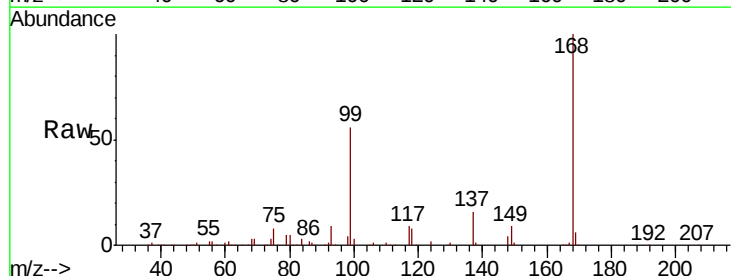


Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

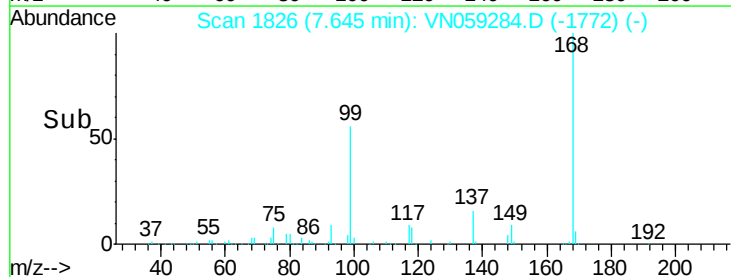
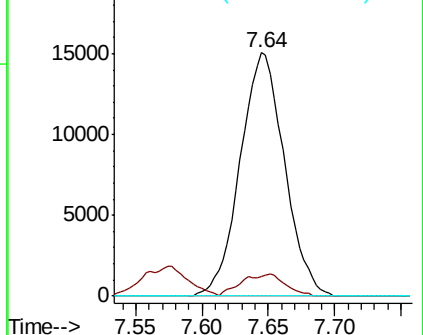


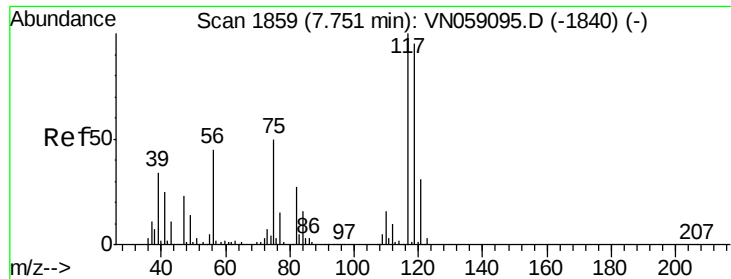
#36
1,1-Dichloropropene
Concen: 5.149 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.13 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.1	51.2#
77	0.0	24.8	37.2#



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: 6.520 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

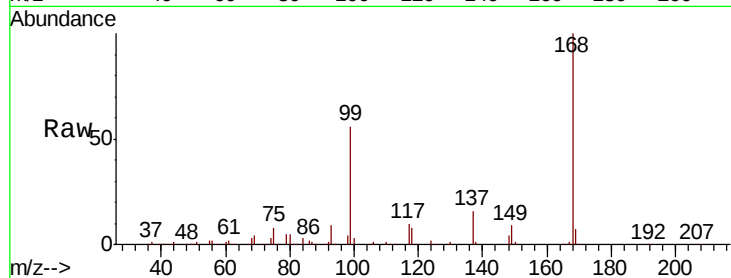
Tot Ion:117 Resp: 43975

Ion Ratio Lower Upper

117 100

119 4.8 75.6 113.4#

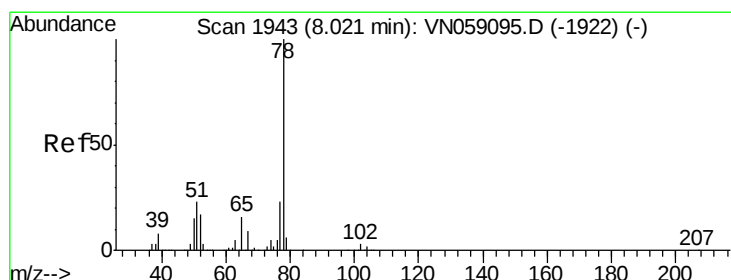
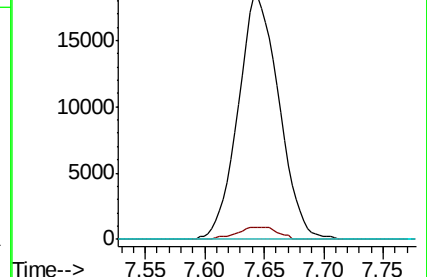
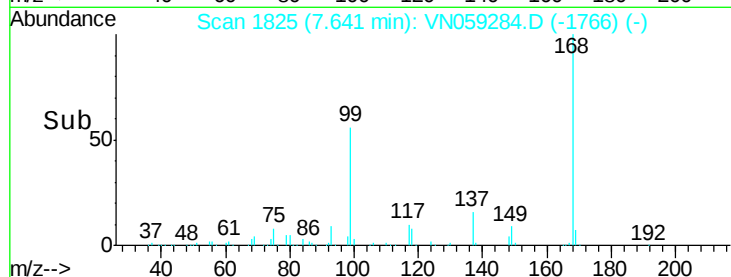
121 0.0 24.6 36.8#



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



#40

Benzene

Concen: 0.258 ug/l

RT: 8.02 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN059284.D

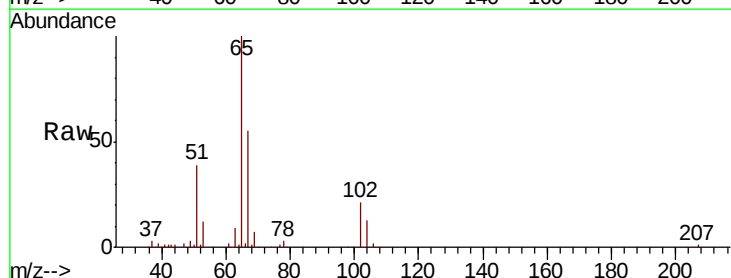
Acq: 18 Nov 2019 15:22

Tgt Ion: 78 Resp: 5265

Ion Ratio Lower Upper

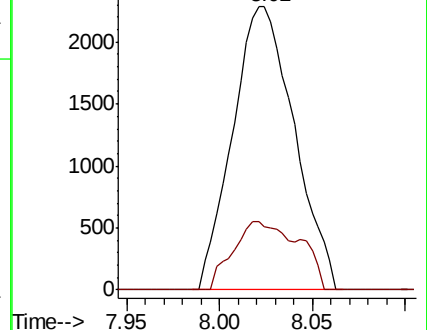
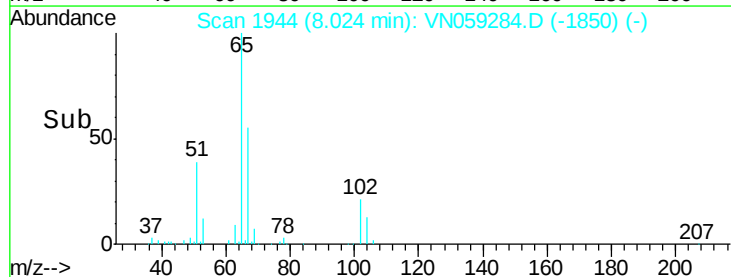
78 100

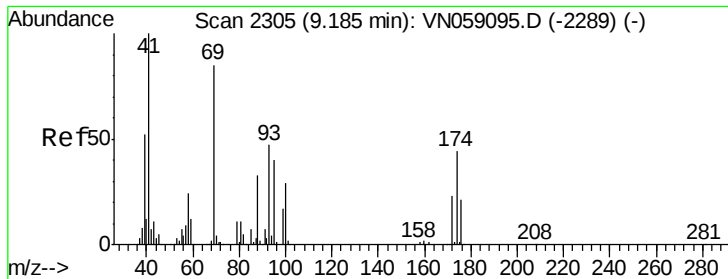
77 22.5 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): V

Ion 77.00 (76.70 to 77.70): V

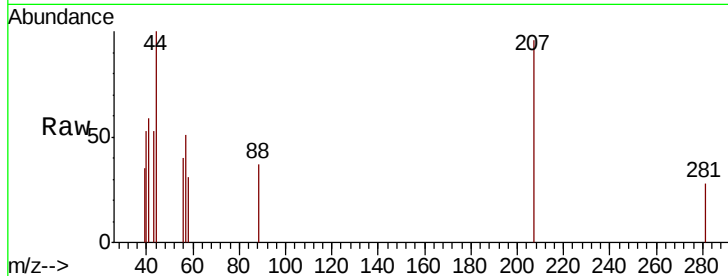




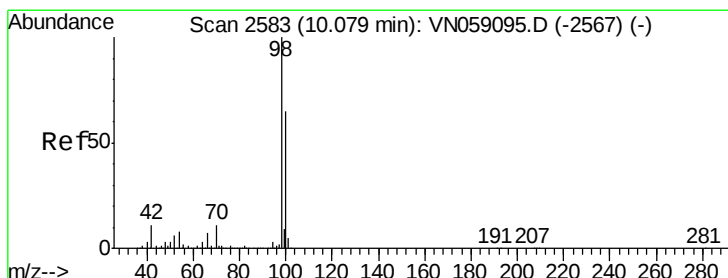
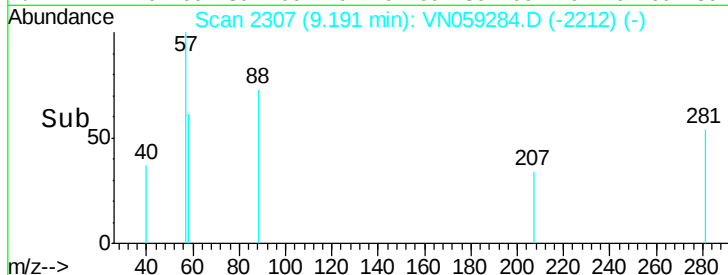
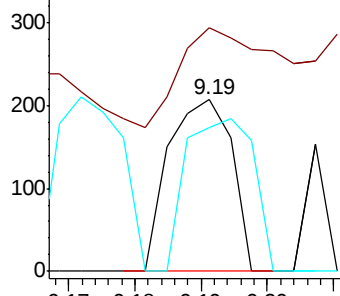
#49
1,4-Dioxane
Concen: 1.434 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. 0.01 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 137
Ion Ratio Lower Upper
88 100
43 0.0 26.3 39.5#
58 94.9 60.6 90.8#

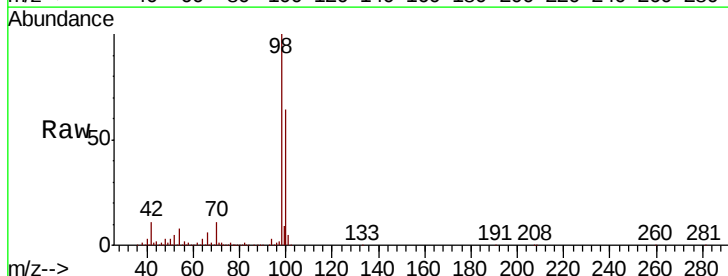


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

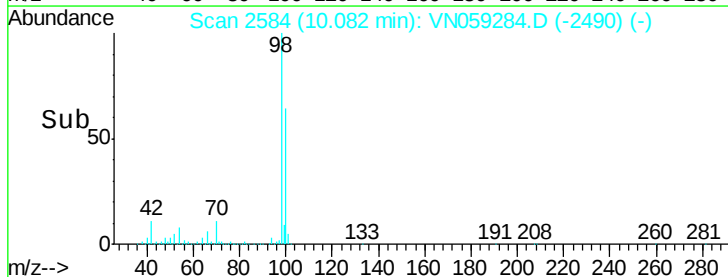
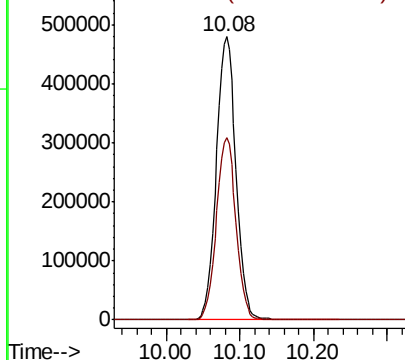


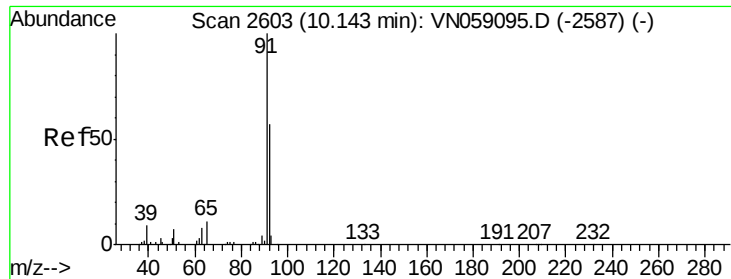
#50
Toluene-d8
Concen: 51.816 ug/l
RT: 10.08 min Scan# 2584
Delta R.T. 0.00 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Tgt Ion: 98 Resp: 883492
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0





#52

Toluene

Concen: 0.514 ug/l

RT: 10.15 min Scan# 2605

Delta R.T. 0.01 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

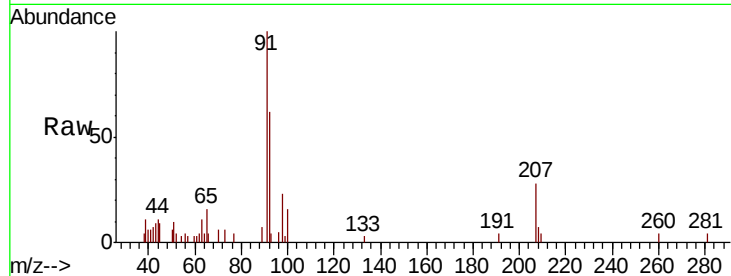
ClientSampled :

Tot Ion: 92 Resp: 6288

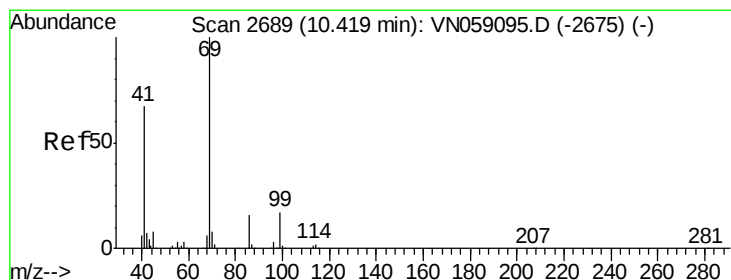
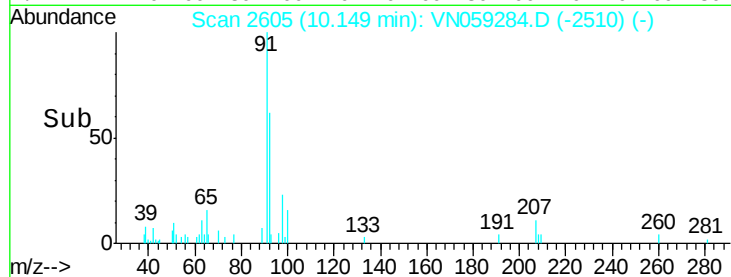
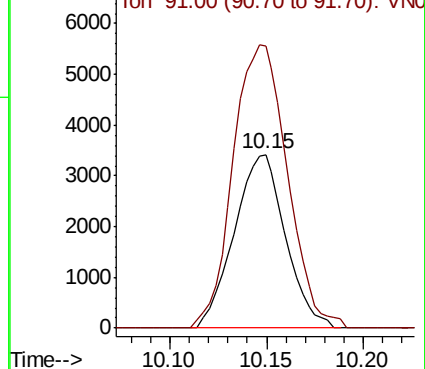
Ion Ratio Lower Upper

92 100

91 173.2 139.5 209.3



Abundance Ion 92.00 (91.70 to 92.70): VN059284.D (-2510) (-)



#56

Ethyl methacrylate

Concen: 1.881 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. -0.03 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

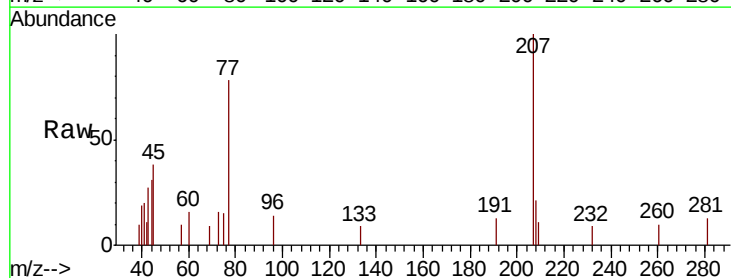
Tgt Ion: 69 Resp: 64

Ion Ratio Lower Upper

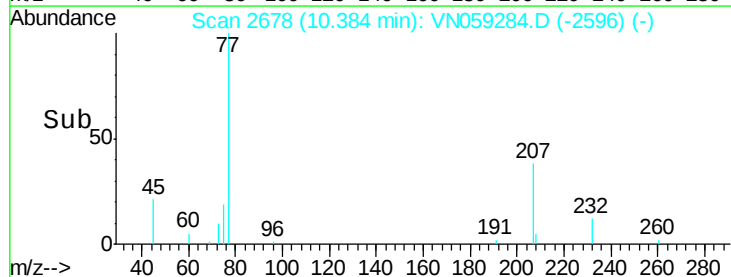
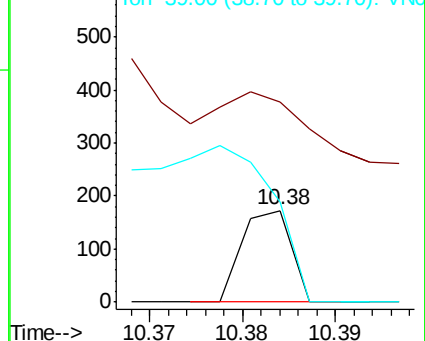
69 100

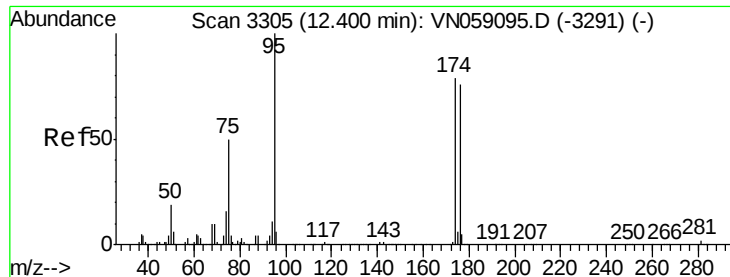
41 0.0 53.6 80.4#

39 0.0 26.2 39.4#



Abundance Ion 69.00 (68.70 to 69.70): VN059284.D (-2596) (-)





#62

4-Bromofluorobenzene

Concen: 48.248 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

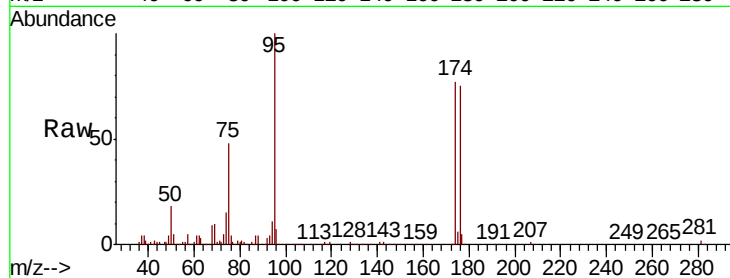
Tot Ion: 95 Resp: 296616

Ion Ratio Lower Upper

95 100

174 78.1 0.0 158.2

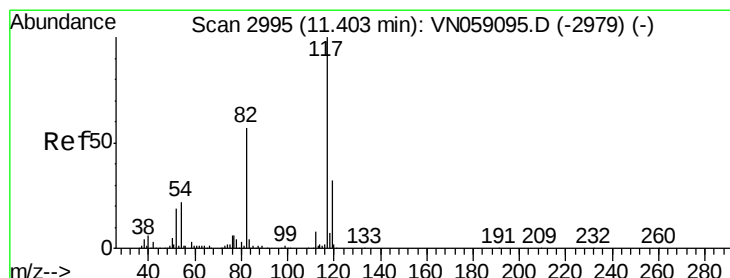
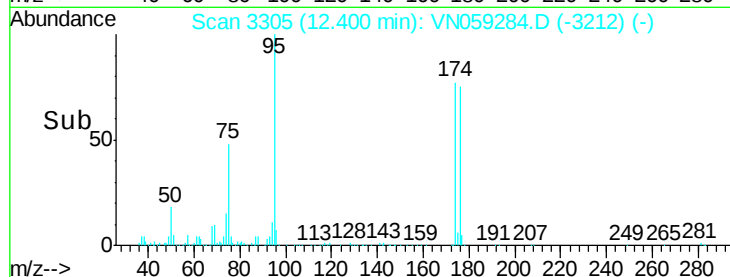
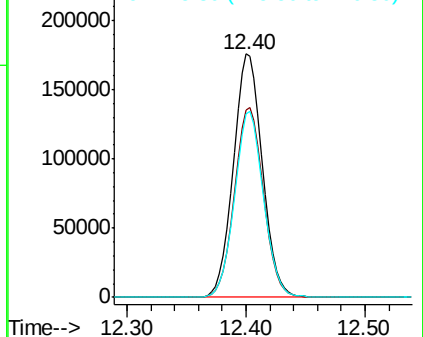
176 76.0 0.0 151.8



Abundance Ion 94.90 (94.60 to 95.60): VN059284.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN059284.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN059284.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

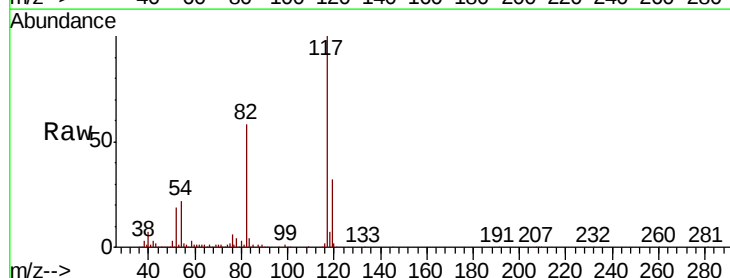
Tgt Ion: 117 Resp: 635632

Ion Ratio Lower Upper

117 100

82 58.4 45.8 68.8

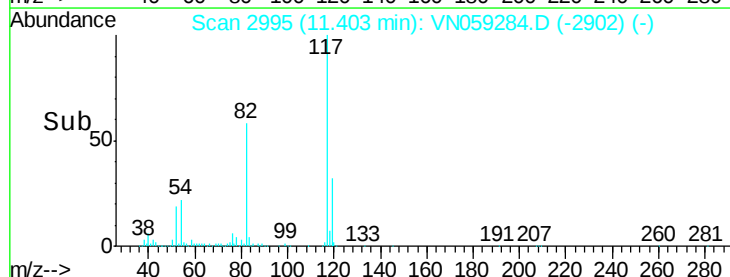
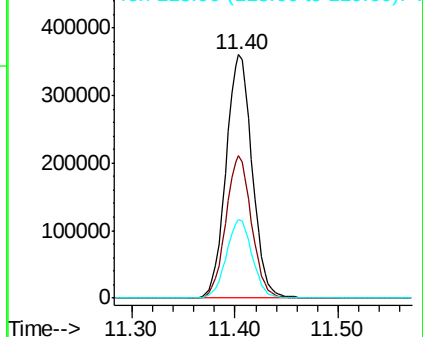
119 32.4 25.8 38.6

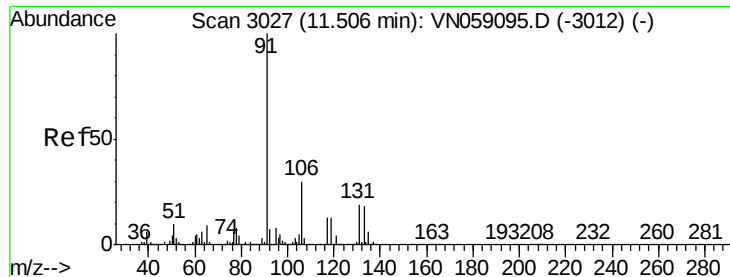


Abundance Ion 116.90 (116.60 to 117.60): VN059284.D (-2902) (-)

Ion 82.00 (81.70 to 82.70): VN059284.D (-2902) (-)

Ion 118.90 (118.60 to 119.60): VN059284.D (-2902) (-)

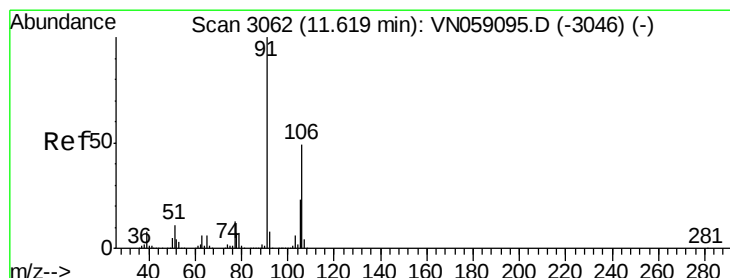
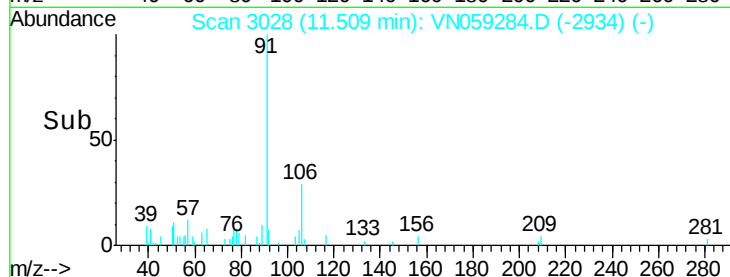
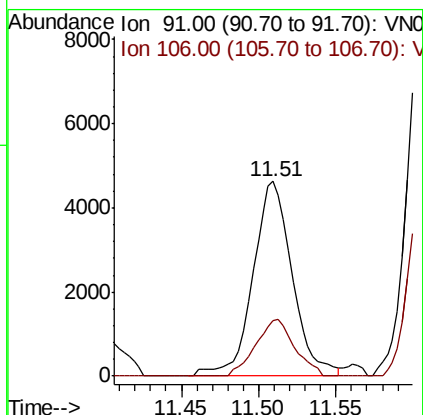
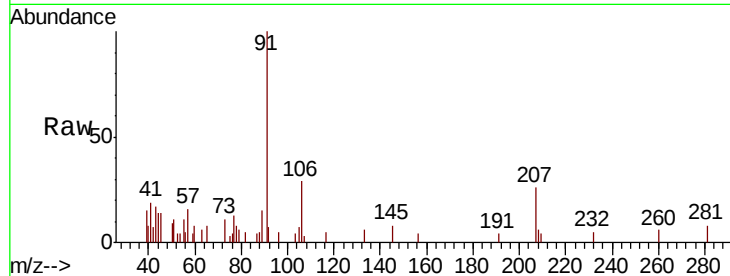




#67
Ethyl Benzene
Concen: 0.374 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

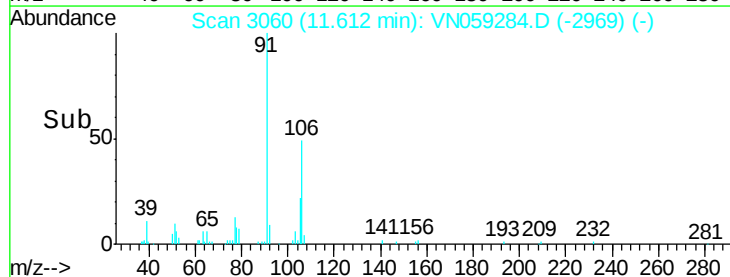
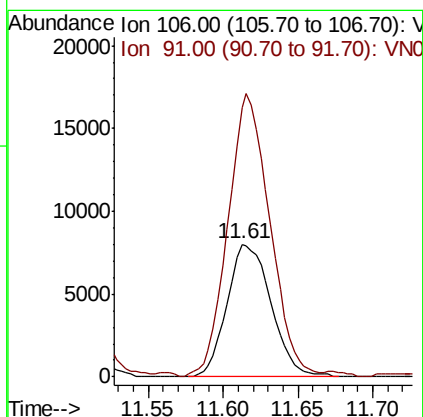
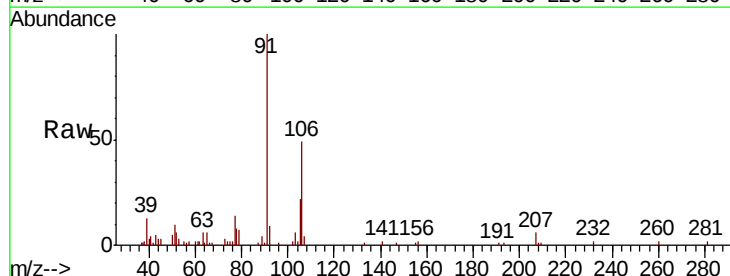
Instrument :
MSVOA_N
ClientSampleId :

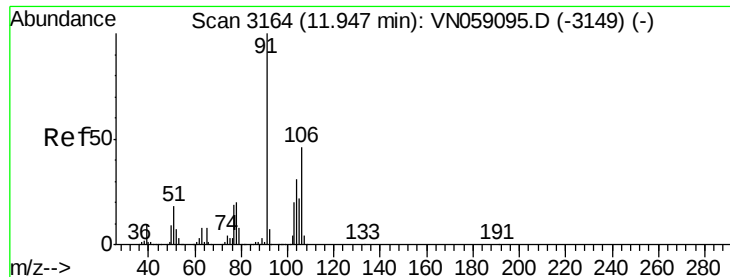
Tot Ion: 91 Resp: 8222
Ion Ratio Lower Upper
91 100
106 28.6 24.1 36.1



#68
m/p-Xylenes
Concen: 1.996 ug/l
RT: 11.61 min Scan# 3060
Delta R.T. -0.01 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Tgt Ion: 106 Resp: 16437
Ion Ratio Lower Upper
106 100
91 203.3 164.7 247.1

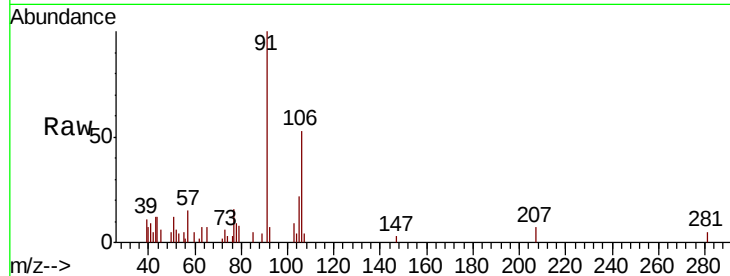




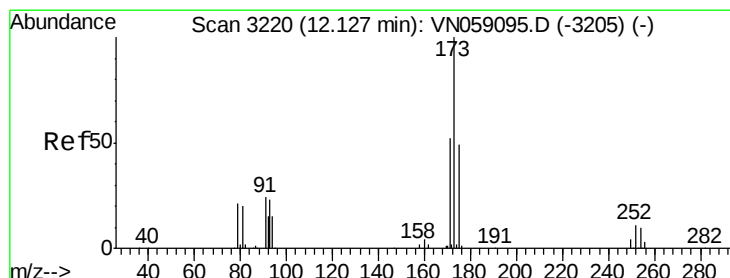
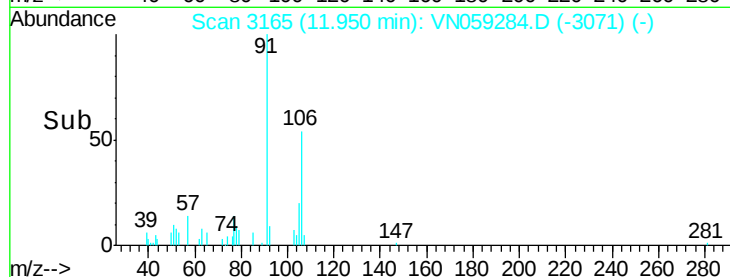
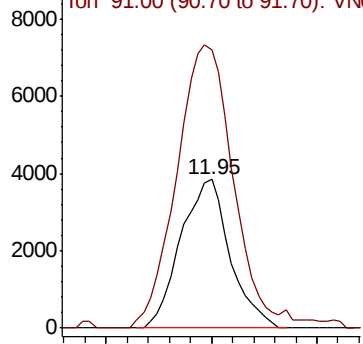
#69
o-Xylene
Concen: 0.784 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:106 Resp: 6238
Ion Ratio Lower Upper
106 100
91 221.6 110.1 330.3

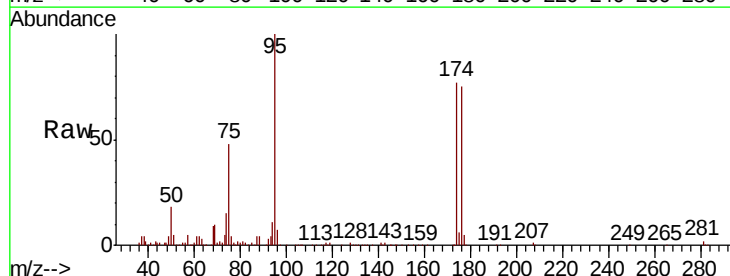


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

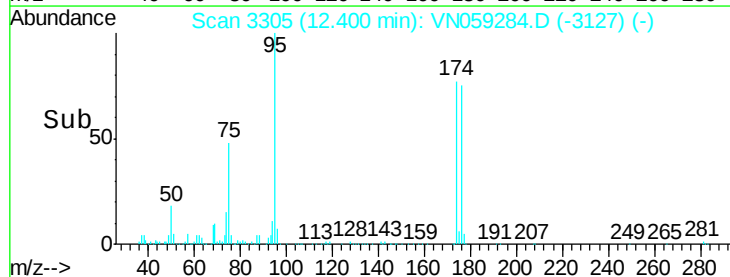
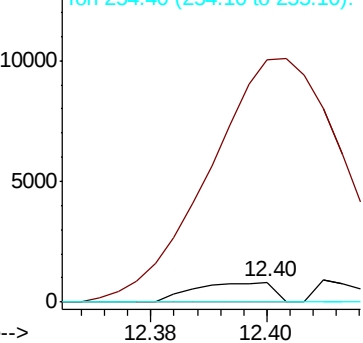


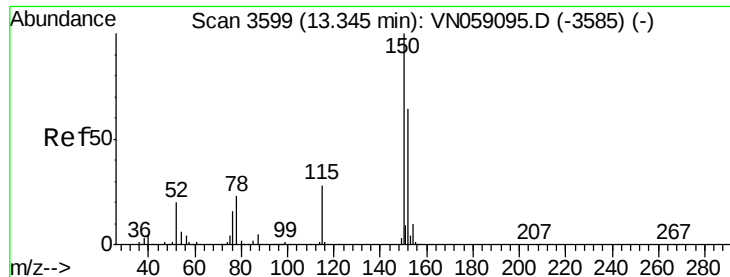
#71
Bromoform
Concen: 0.209 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN059284.D
Acq: 18 Nov 2019 15:22

Tgt Ion:173 Resp: 756
Ion Ratio Lower Upper
173 100
175 1927.4 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# 3599

Delta R.T. -0.00 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

ClientSampleId :

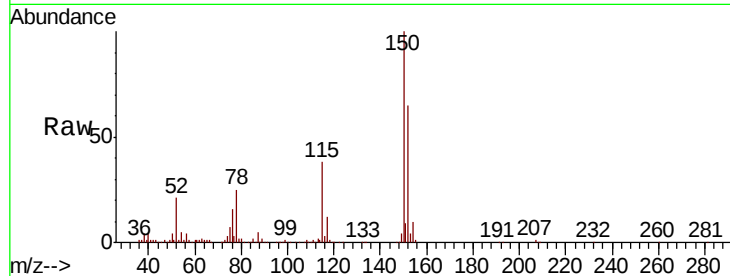
Tot Ion:152 Resp: 255809

Ion Ratio Lower Upper

152 100

115 59.2 29.4 88.2

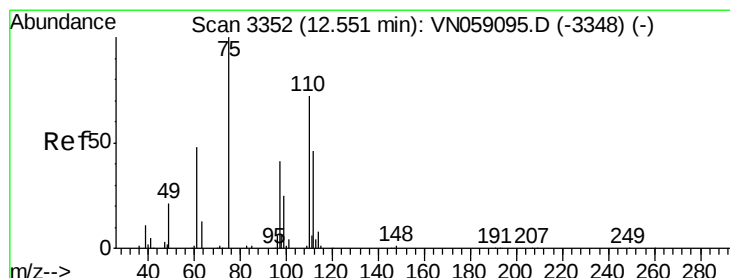
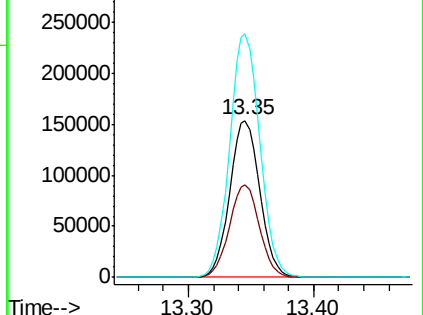
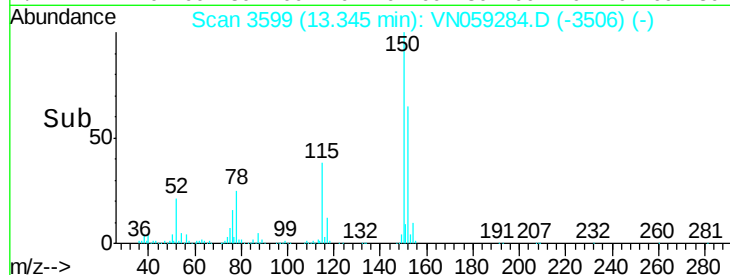
150 156.5 0.0 345.8



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: 24.536 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059284.D

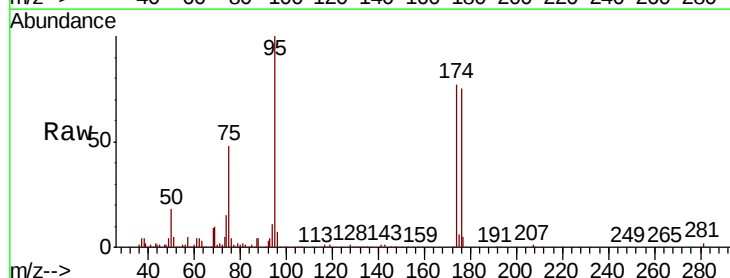
Acq: 18 Nov 2019 15:22

Tgt Ion: 75 Resp: 142894

Ion Ratio Lower Upper

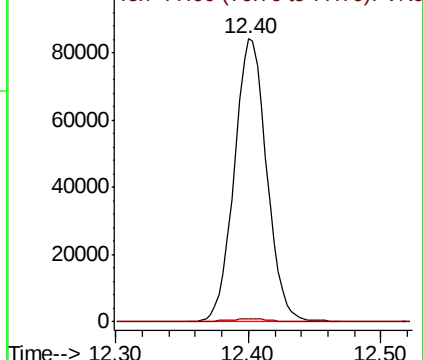
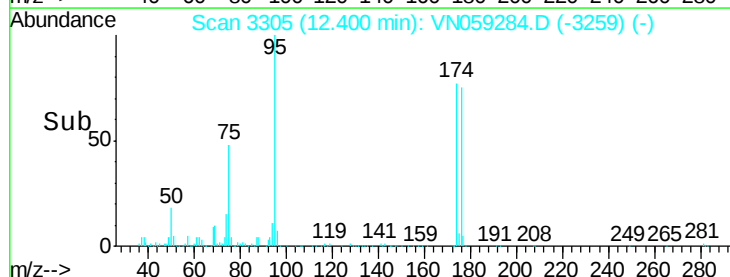
75 100

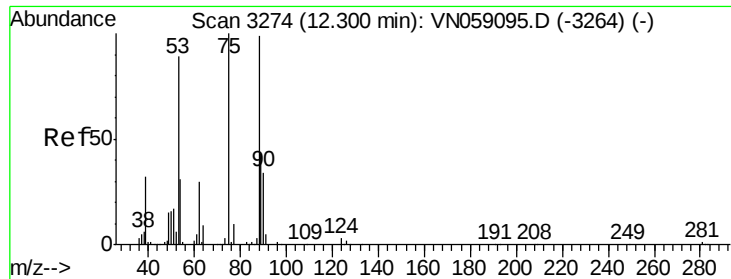
77 1.5 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 64.806 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059284.D

Acq: 18 Nov 2019 15:22

Instrument :

MSVOA_N

ClientSampled :

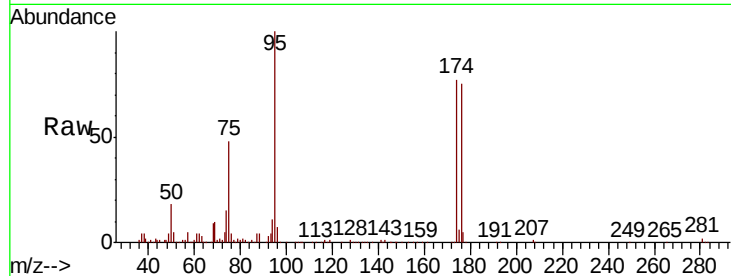
Tot Ion: 75 Resp: 142894

Ion Ratio Lower Upper

75 100

53 0.2 72.2 108.2#

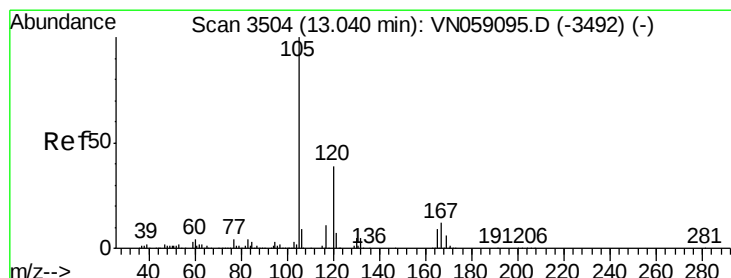
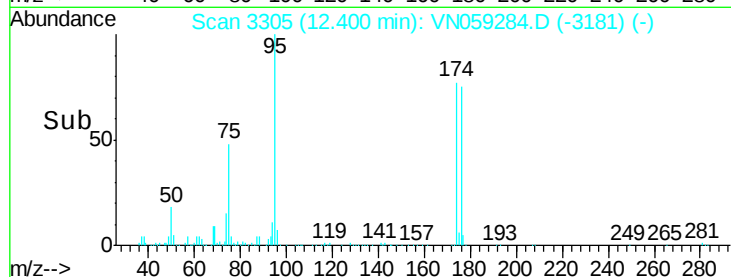
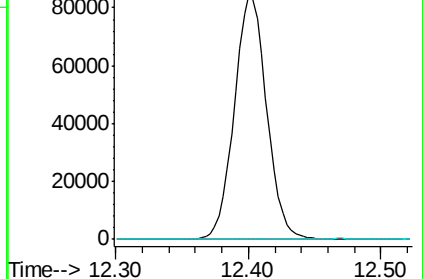
89 0.0 35.8 53.8#



Abundance Ion 74.90 (74.60 to 75.60): VN059284.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN059284.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN059284.D (-3181) (-)



#84

1,2,4-Trimethylbenzene

Concen: 0.550 ug/l

RT: 13.04 min Scan# 3505

Delta R.T. 0.00 min

Lab File: VN059284.D

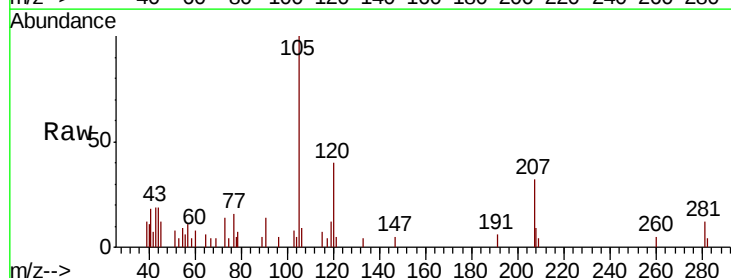
Acq: 18 Nov 2019 15:22

Tgt Ion: 105 Resp: 8393

Ion Ratio Lower Upper

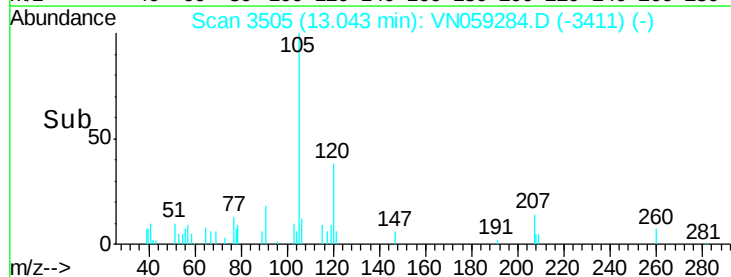
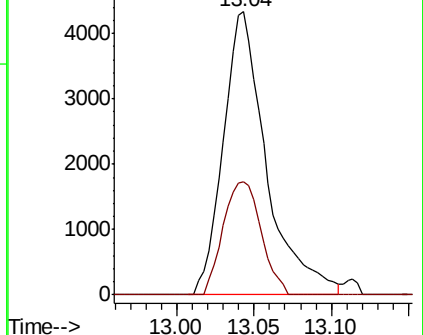
105 100

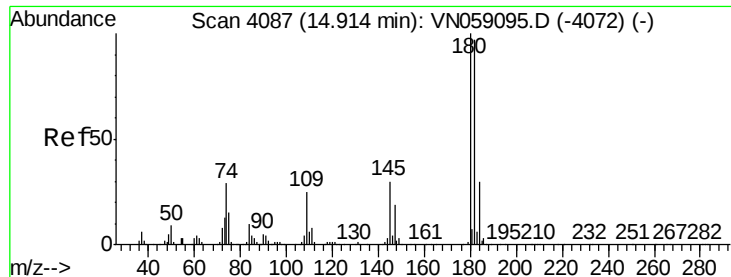
120 35.0 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): VN059284.D (-3411) (-)

Ion 120.00 (119.70 to 120.70): VN059284.D (-3411) (-)

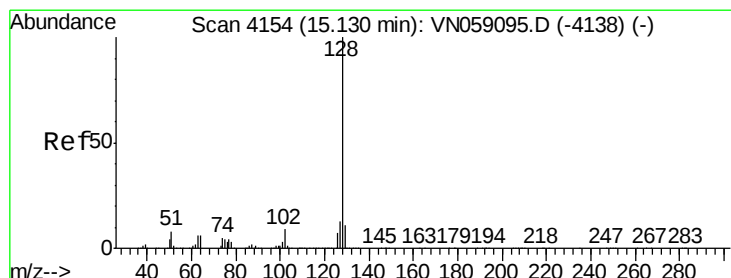
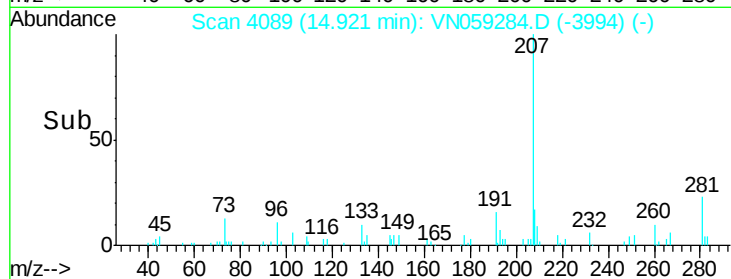
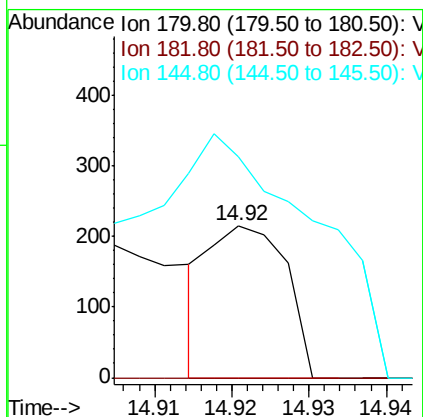
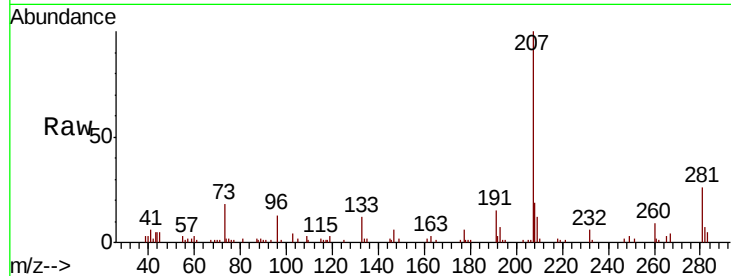




#93
 1,2,4-Trichlorobenzene
 Concen: 3.075 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN059284.D
 Acq: 18 Nov 2019 15:22

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 148
 Ion Ratio Lower Upper
 180 100
 182 0.0 48.1 144.3#
 145 403.4 15.1 45.3#



#95
 Naphthalene
 Concen: 3.893 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. 0.00 min
 Lab File: VN059284.D
 Acq: 18 Nov 2019 15:22

Tgt Ion:128 Resp: 11972
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.2 15.2
 129 14.6 8.6 12.8#

