

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121719\
 Data File : VN059630.D
 Acq On : 17 Dec 2019 17:20
 Operator : JC/SP
 Sample : K6330-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11978

Quant Time: Dec 18 05:48:56 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121319W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 13 23:17:39 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	231808	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	379654	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	345541	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	131021	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	173701	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
35) Dibromofluoromethane	7.57	113	121166	51.01	ug/l	0.00
Spiked Amount			Recovery	=	102.02%	
50) Toluene-d8	10.08	98	480655	51.11	ug/l	0.00
Spiked Amount			Recovery	=	102.22%	
62) 4-Bromofluorobenzene	12.40	95	153141	44.63	ug/l	0.00
Spiked Amount			Recovery	=	89.26%	

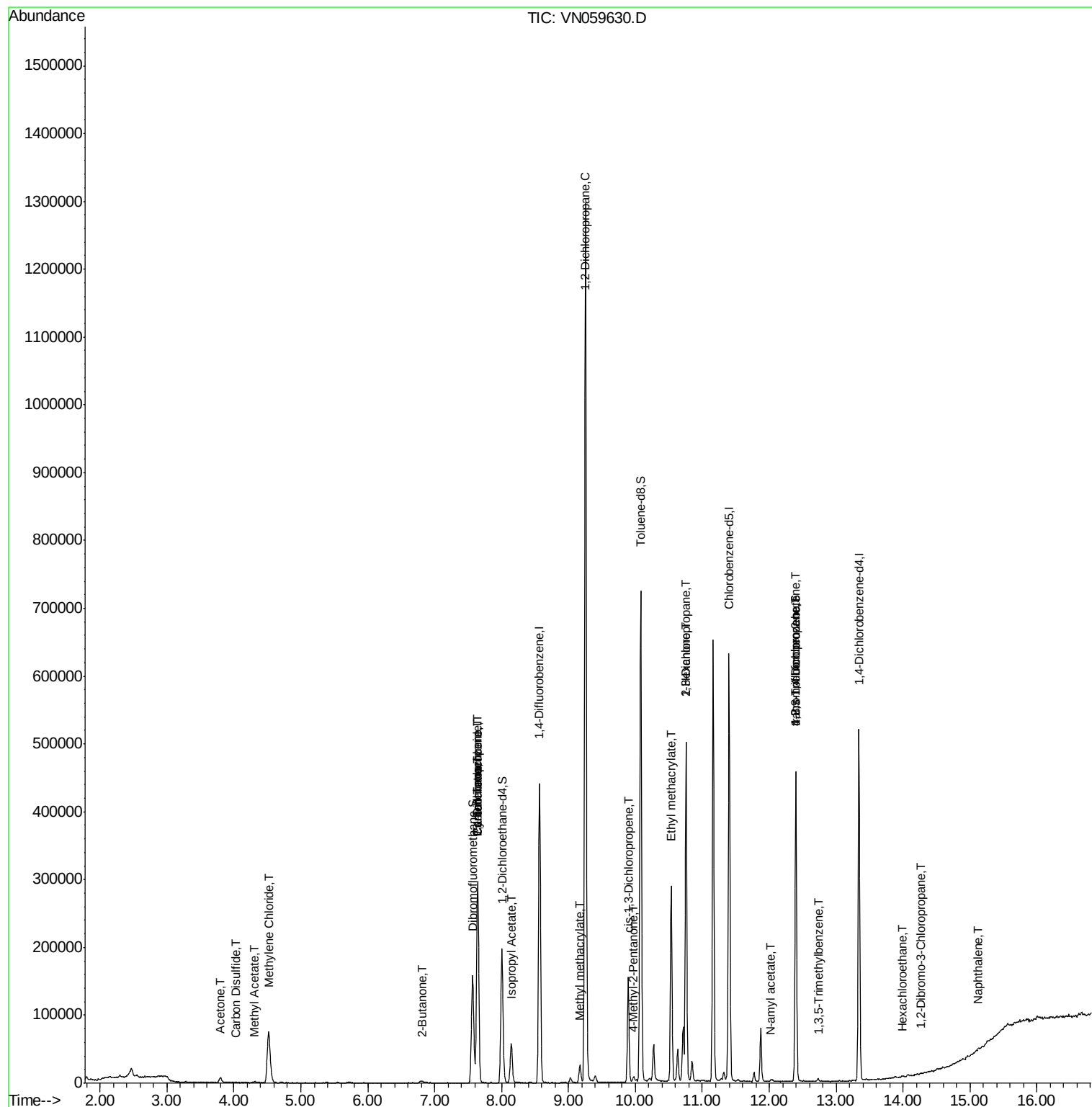
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.80	43	12484	6.234	ug/l	95
17) Carbon Disulfide	4.02	76	1407	2.040	ug/l #	75
18) Methyl Acetate	4.30	43	3213	0.766	ug/l #	73
20) Methylene Chloride	4.52	84	56645	19.585	ug/l	98
25) 2-Butanone	6.82	43	1783	0.745	ug/l #	50
31) Cyclohexane	7.64	56	5815	1.181	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	20301	5.128	ug/l #	50
38) Carbon Tetrachloride	7.64	117	23845	5.804	ug/l #	16
43) Isopropyl Acetate	8.14	43	68705	9.603	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1458	0.467	ug/l #	44
48) Methyl methacrylate	9.17	41	4298	1.324	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	5508	1.291	ug/l	97
54) cis-1,3-Dichloropropene	9.89	75	25524	5.144	ug/l #	65
56) Ethyl methacrylate	10.54	69	1092	0.264	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4688	0.965	ug/l #	42
59) 2-Hexanone	10.76	43	73318	21.809	ug/l #	54
74) N-amyl acetate	12.02	43	2785	0.590	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	81633	25.168	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2577	0.296	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	81633	62.163	ug/l #	11
90) Hexachloroethane	14.00	117	441	0.263	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	103	1.735	ug/l #	6
95) Naphthalene	15.12	128	2584	0.292	ug/l #	80

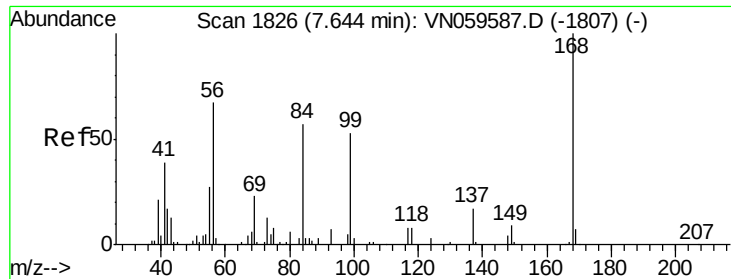
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Dec 13 23:17:39 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

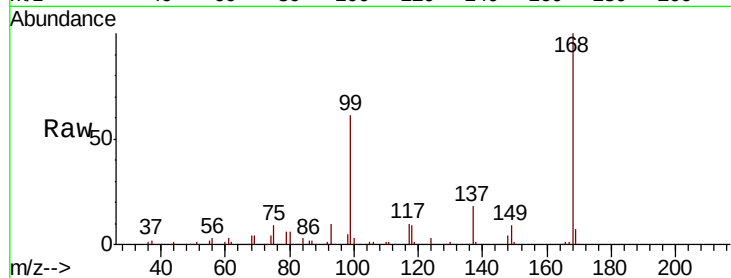
Instrument :
MSVOA_N
ClientSampled :
11978

Tot Ion:168 Resp: 231808

Ion Ratio Lower Upper

168 100

99 61.1 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.64

100000

80000

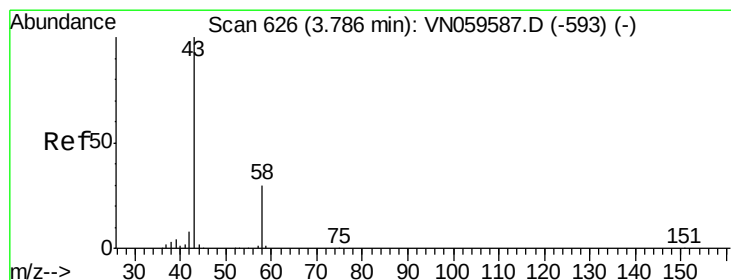
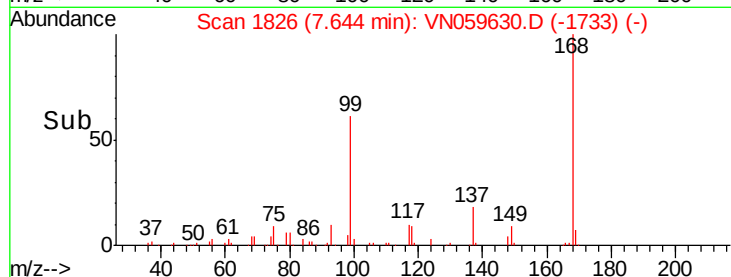
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 6.234 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059630.D

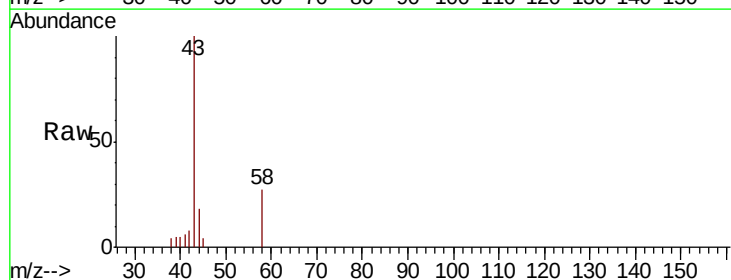
Acq: 17 Dec 2019 17:20

Tgt Ion: 43 Resp: 12484

Ion Ratio Lower Upper

43 100

58 27.0 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.80

5000

4000

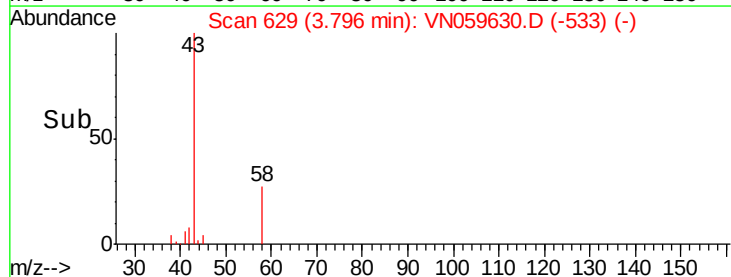
3000

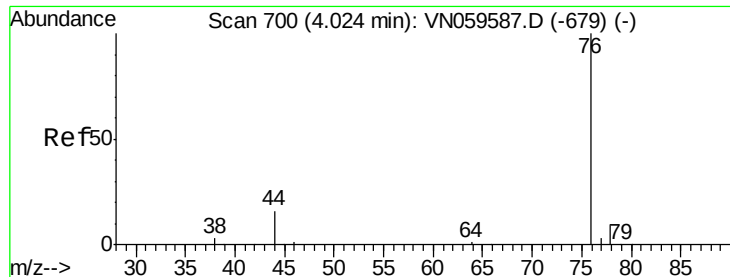
2000

1000

0

Time-->

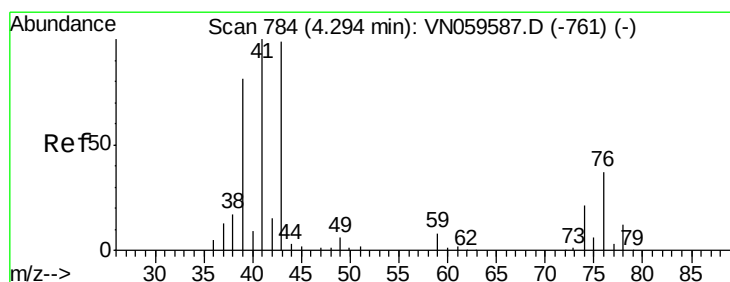
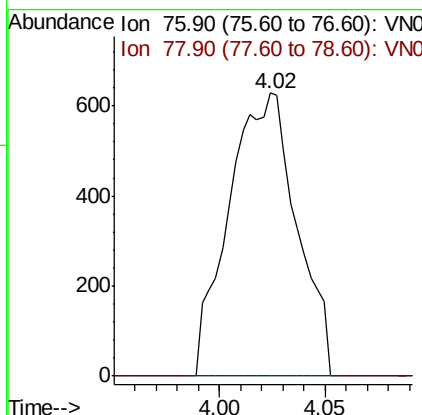
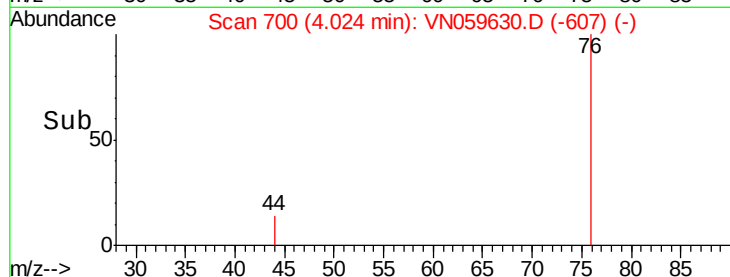
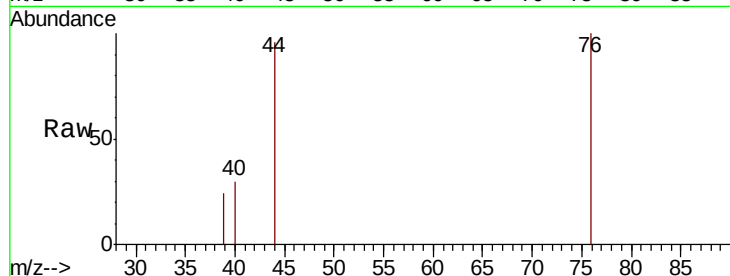




#17
Carbon Disulfide
Concen: 2.040 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

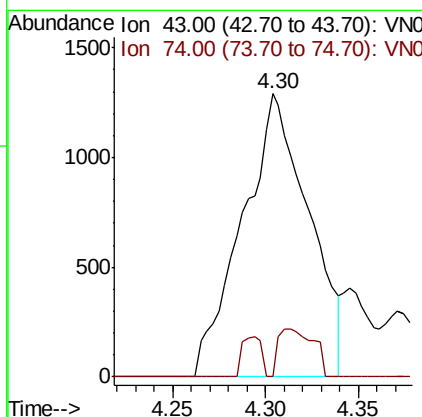
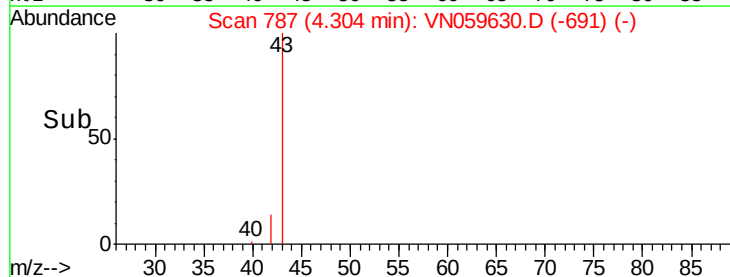
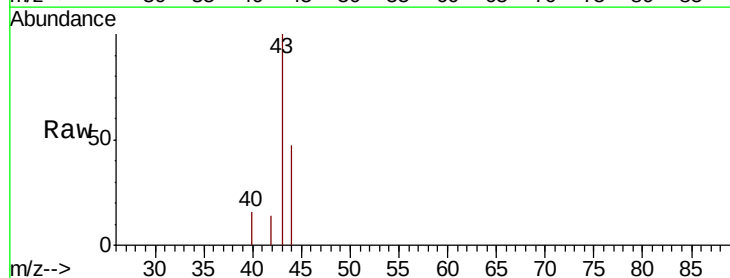
Instrument :
MSVOA_N
ClientSampled :
11978

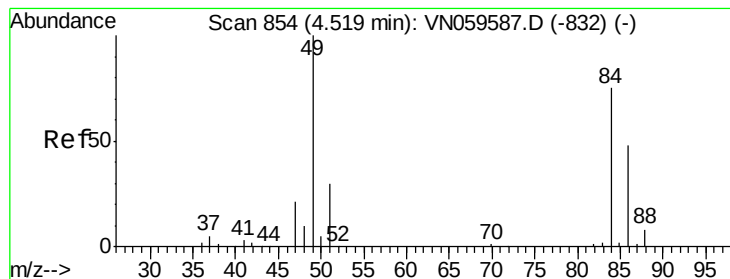
Tot Ion: 76 Resp: 1407
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.0#



#18
Methyl Acetate
Concen: 0.766 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.01 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Tgt Ion: 43 Resp: 3213
Ion Ratio Lower Upper
43 100
74 9.0 17.5 26.3#





#20

Methvlene Chloride

Concen: 19.585 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
11978

Tot Ion: 84 Resp: 56645

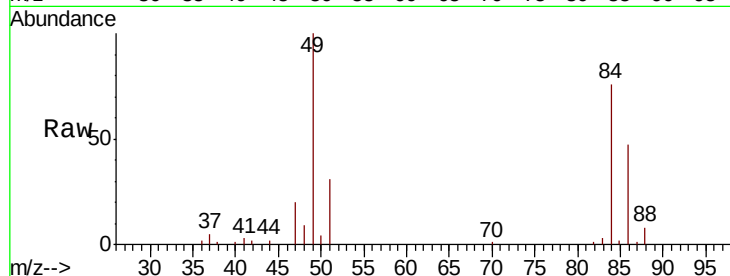
Ion Ratio Lower Upper

84 100

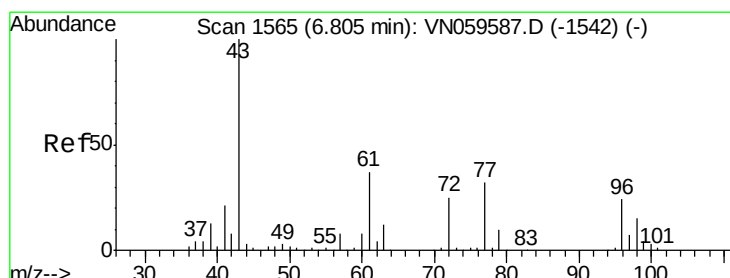
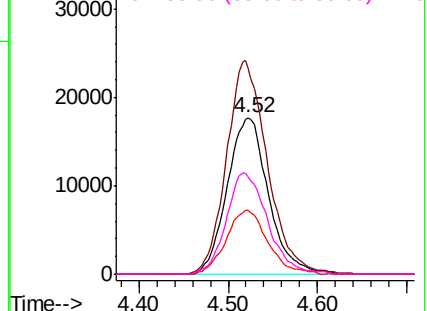
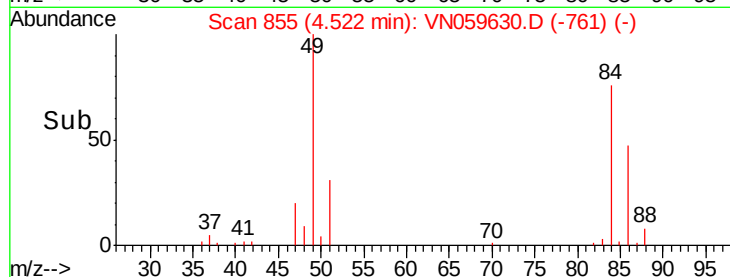
49 130.7 106.6 160.0

51 40.6 31.9 47.9

86 62.2 50.8 76.2



Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.745 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN059630.D

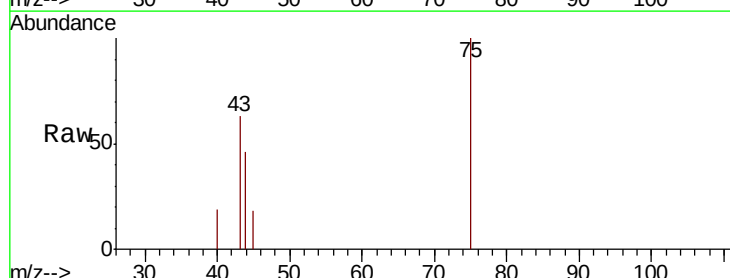
Acq: 17 Dec 2019 17:20

Tgt Ion: 43 Resp: 1783

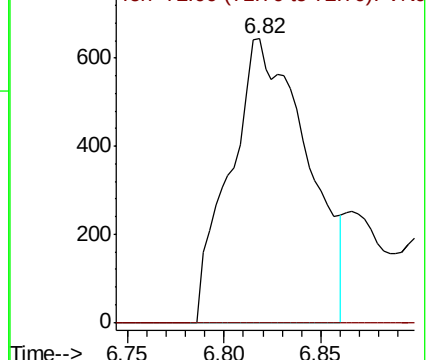
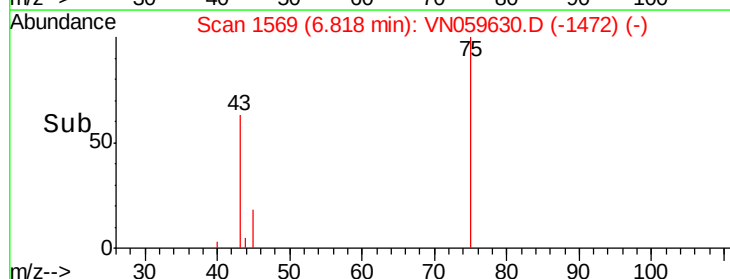
Ion Ratio Lower Upper

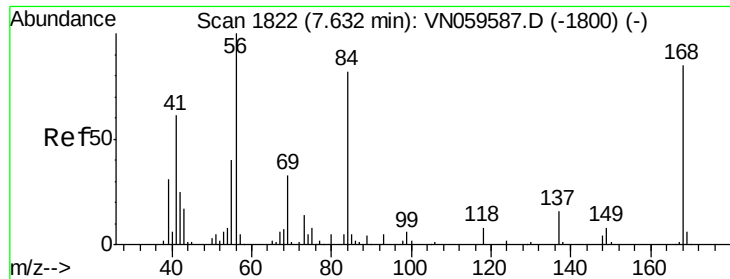
43 100

72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

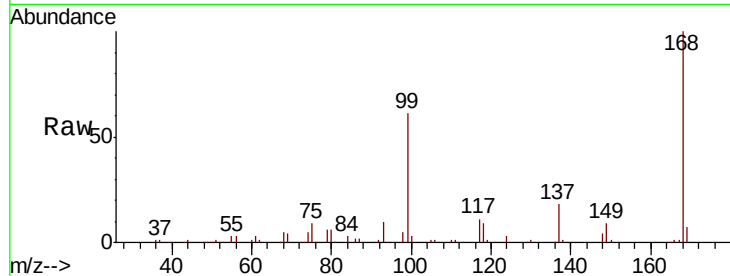




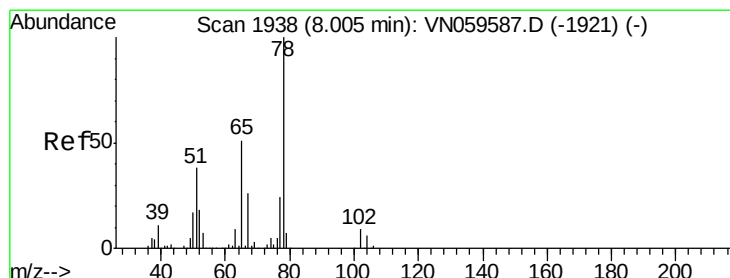
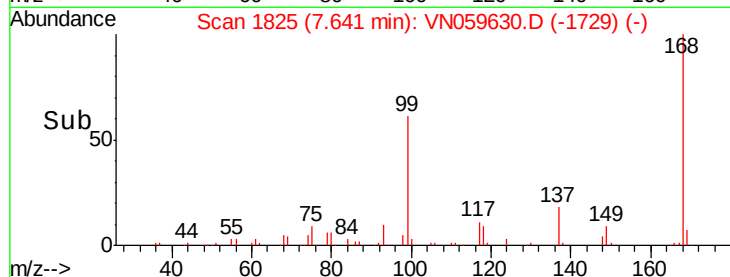
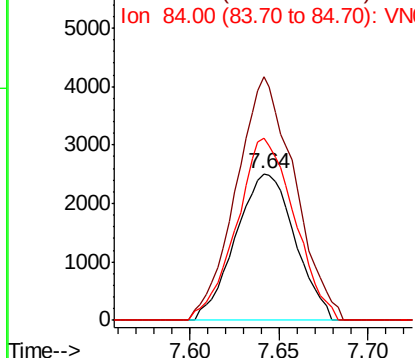
#31
Cyclohexane
Concen: 1.181 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
11978

Tot Ion: 56 Resp: 5815
Ion Ratio Lower Upper
56 100
69 166.1 26.5 39.7#
84 124.2 65.3 97.9#

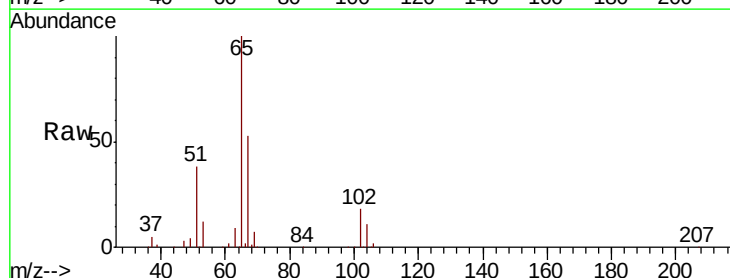


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

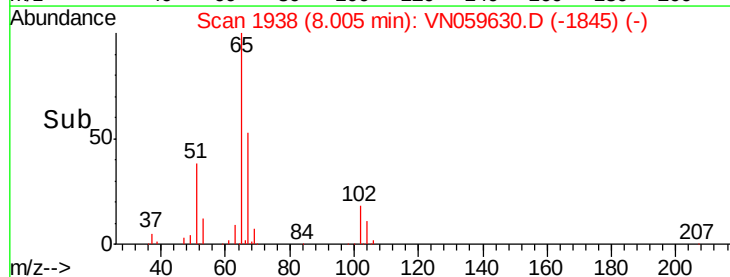
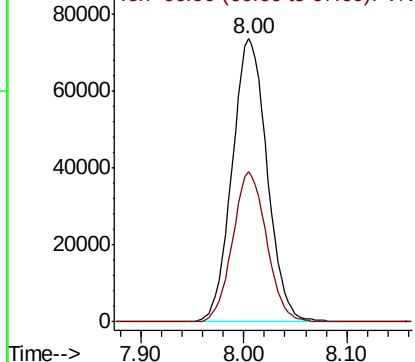


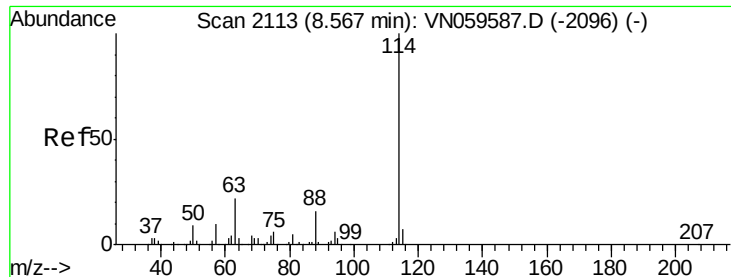
#33
1,2-Dichloroethane-d4
Concen: 51.495 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Tgt Ion: 65 Resp: 173701
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

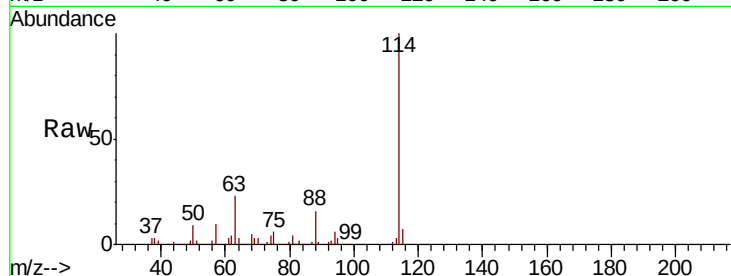




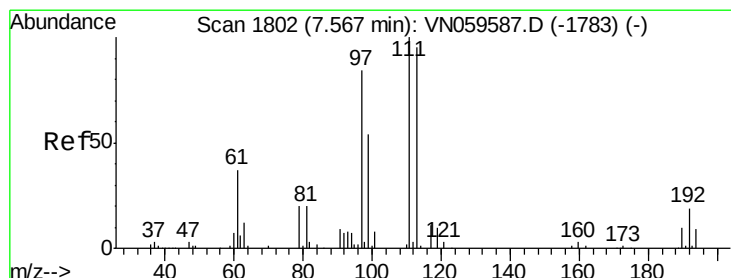
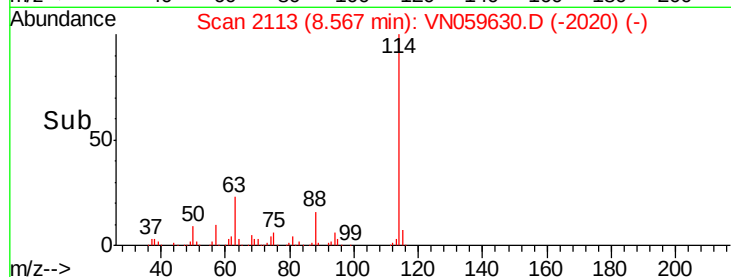
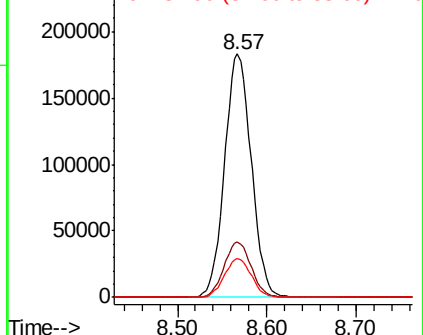
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 11978

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.6	0.0	43.6
88	16.0	0.0	31.4

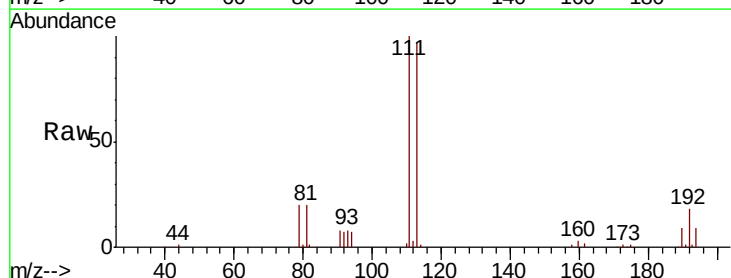


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

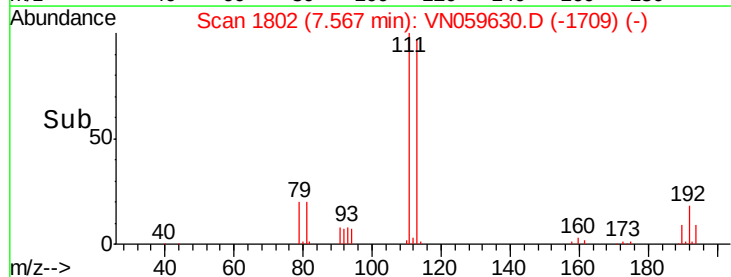
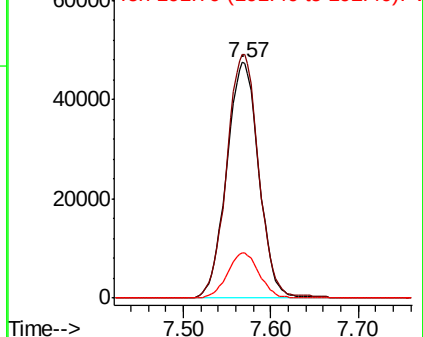


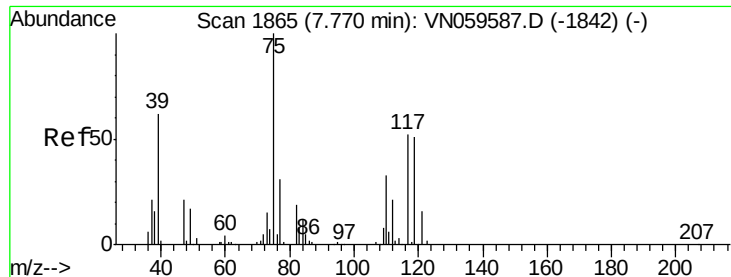
#35
 Dibromofluoromethane
 Concen: 51.008 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.3	83.5	125.3
192	18.9	15.4	23.2



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: 5.128 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

11978

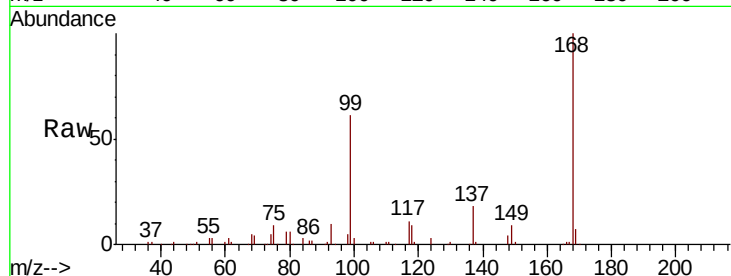
Tot Ion: 75 Resp: 20301

Ion Ratio Lower Upper

75 100

110 8.1 16.6 49.7#

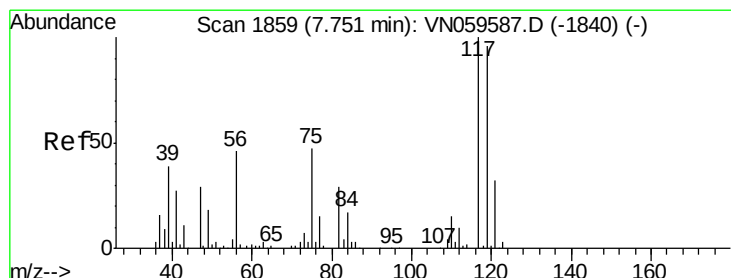
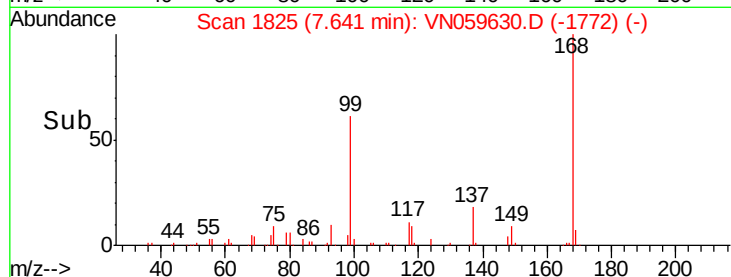
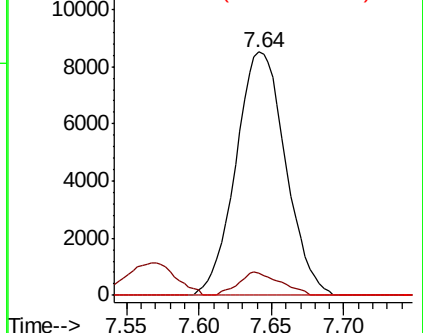
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN059587.D (-1842) (-)

Ion 109.90 (109.60 to 110.60): VN059587.D (-1842) (-)

Ion 76.90 (76.60 to 77.60): VN059587.D (-1842) (-)



#38

Carbon Tetrachloride

Concen: 5.804 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.11 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

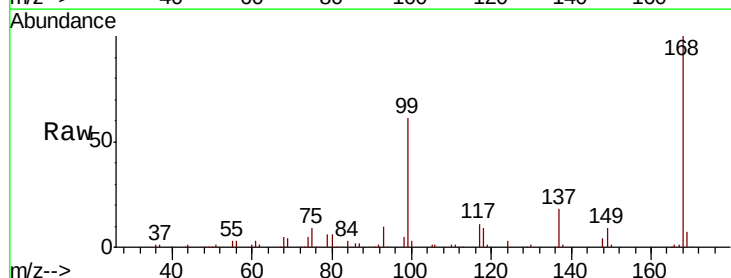
Tgt Ion: 117 Resp: 23845

Ion Ratio Lower Upper

117 100

119 4.9 76.5 114.7#

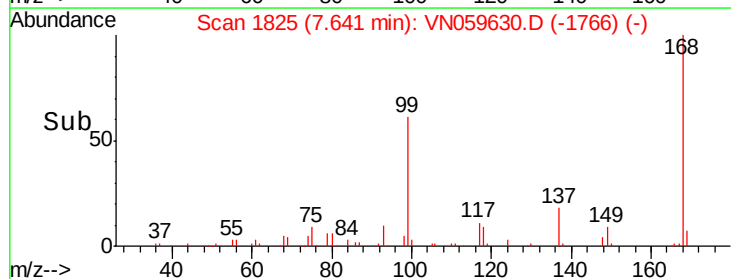
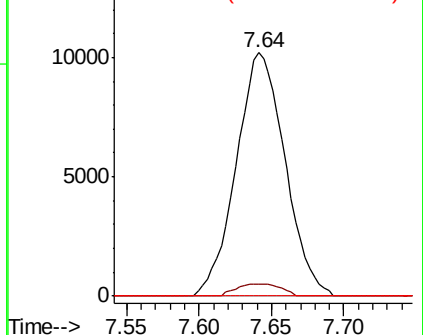
121 0.0 25.1 37.7#

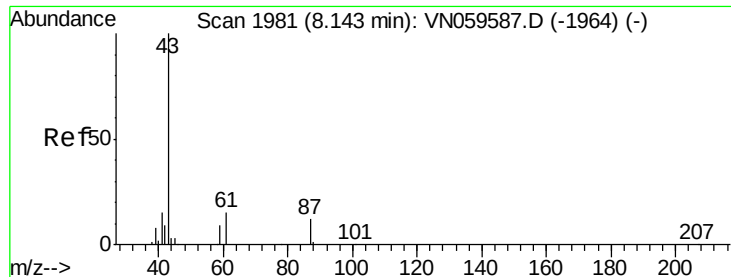


Abundance Ion 116.80 (116.50 to 117.50): VN059587.D (-1840) (-)

Ion 118.80 (118.50 to 119.50): VN059587.D (-1840) (-)

Ion 120.80 (120.50 to 121.50): VN059587.D (-1840) (-)





#43

Isopropyl Acetate

Concen: 9.603 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. -0.00 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

11978

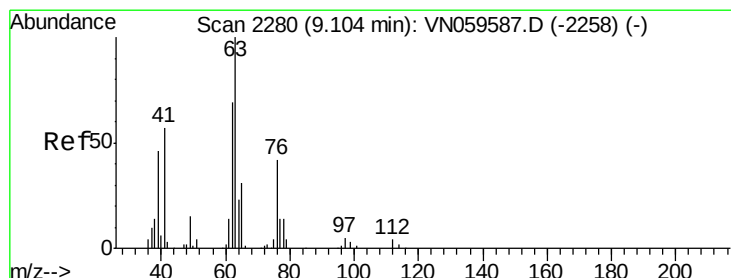
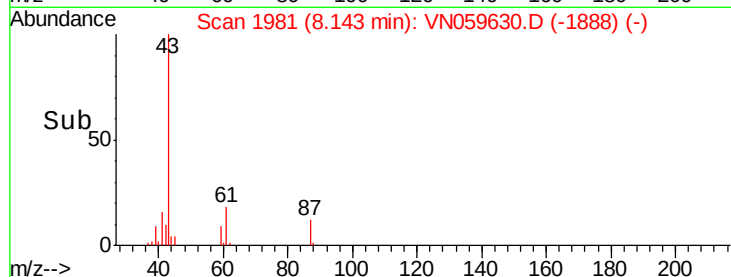
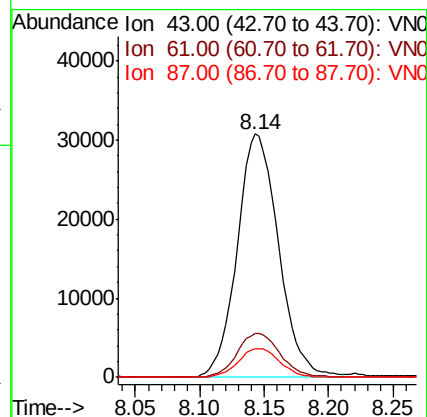
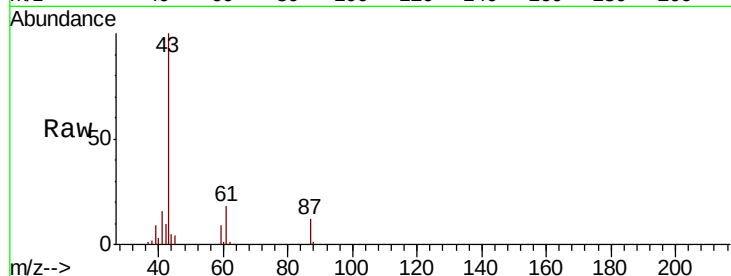
Tot Ion: 43 Resp: 68705

Ion Ratio Lower Upper

43 100

61 18.7 20.2 30.2#

87 11.8 9.5 14.3



#45

1,2-Dichloropropane

Concen: 0.467 ug/l

RT: 9.25 min Scan# 2326

Delta R.T. 0.15 min

Lab File: VN059630.D

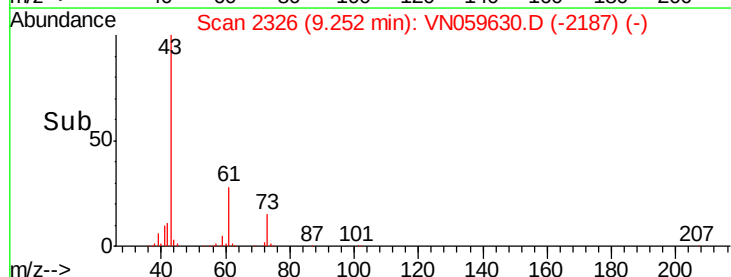
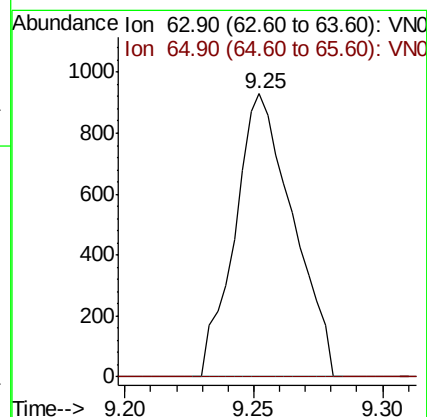
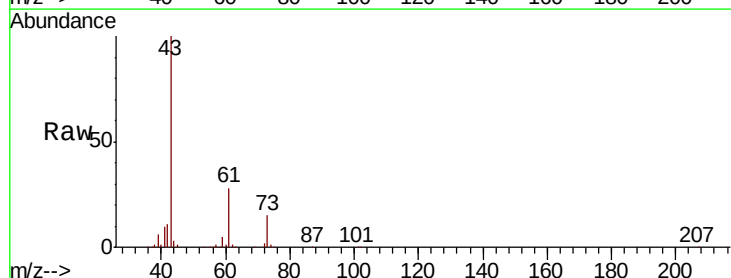
Acq: 17 Dec 2019 17:20

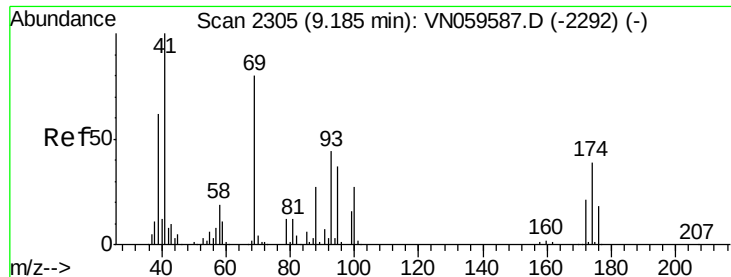
Tgt Ion: 63 Resp: 1458

Ion Ratio Lower Upper

63 100

65 0.0 24.9 37.3#

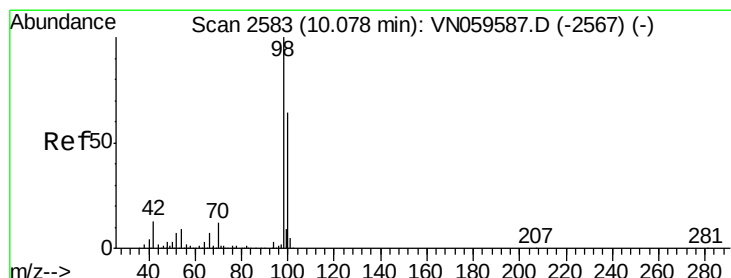
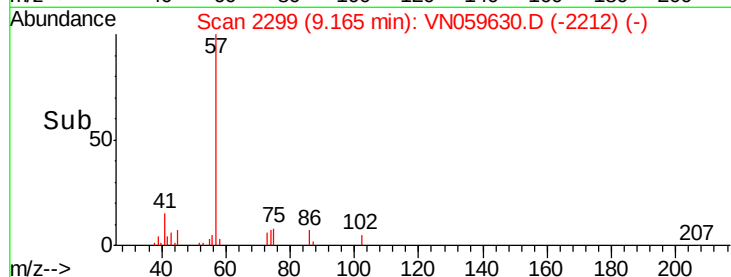
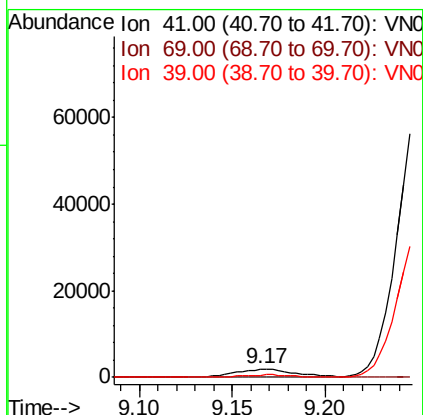
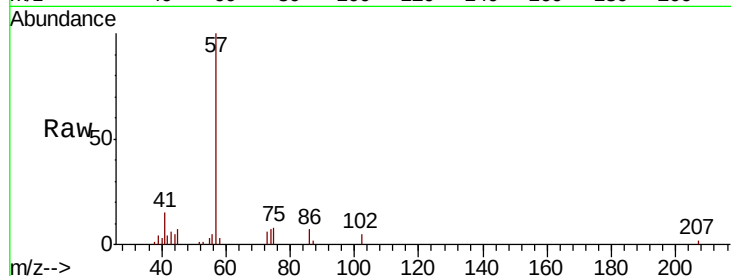




#48
Methvl methacrylate
Concen: 1.324 ug/l
RT: 9.17 min Scan# 2299
Delta R.T. -0.02 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

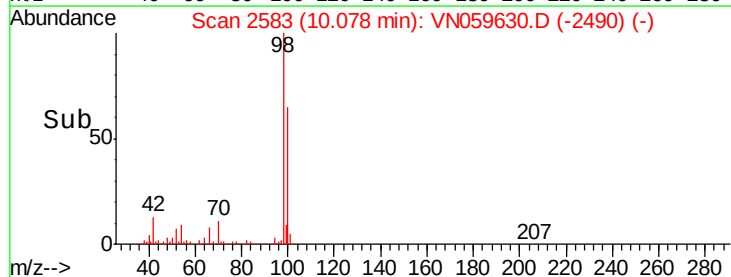
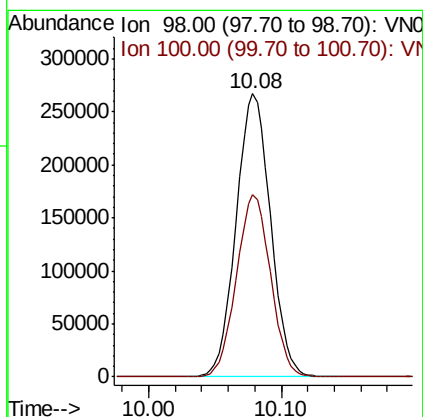
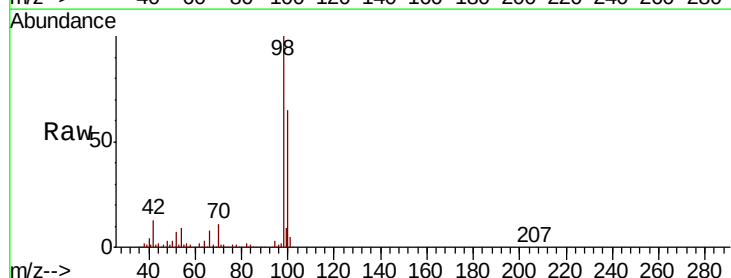
Instrument :
MSVOA_N
ClientSampleId :
11978

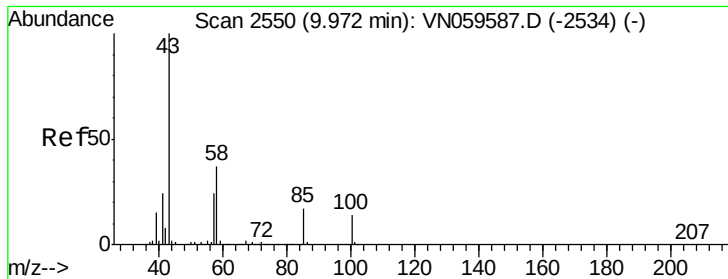
Tot Ion: 41 Resp: 4298
Ion Ratio Lower Upper
41 100
69 0.0 64.4 96.6#
39 0.0 51.3 76.9#



#50
Toluene-d8
Concen: 51.108 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Tgt Ion: 98 Resp: 480655
Ion Ratio Lower Upper
98 100
100 63.9 51.2 76.8

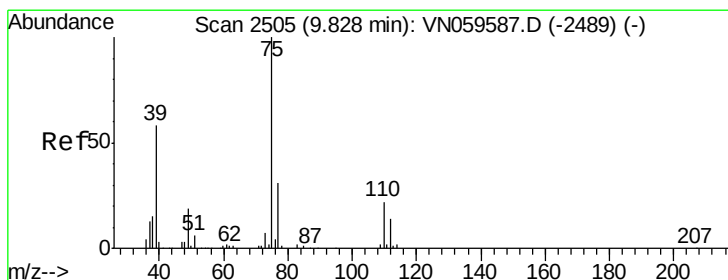
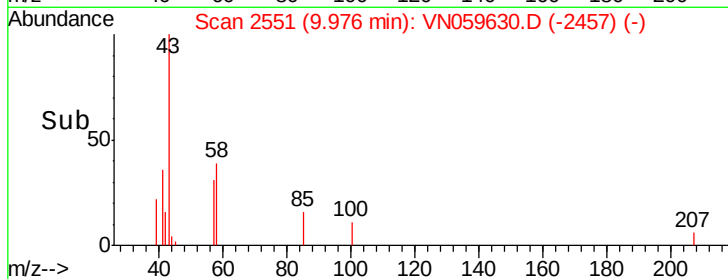
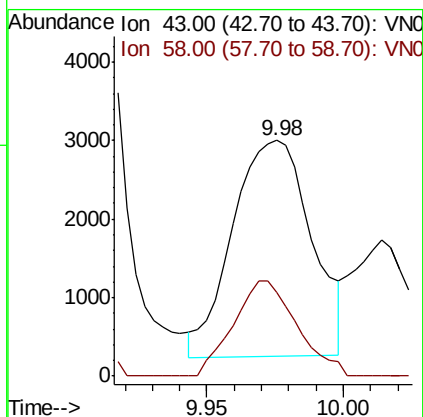
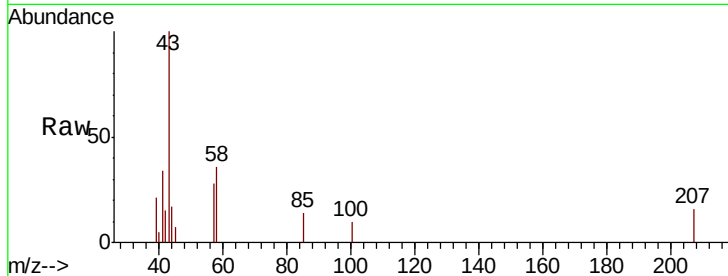




#51
 4-Methyl-2-Pentanone
 Concen: 1.291 ug/l
 RT: 9.98 min Scan# 2551
 Delta R.T. 0.00 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

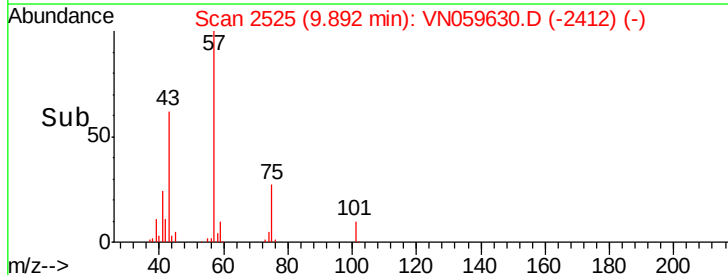
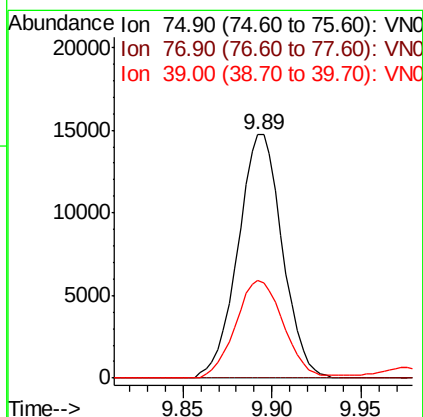
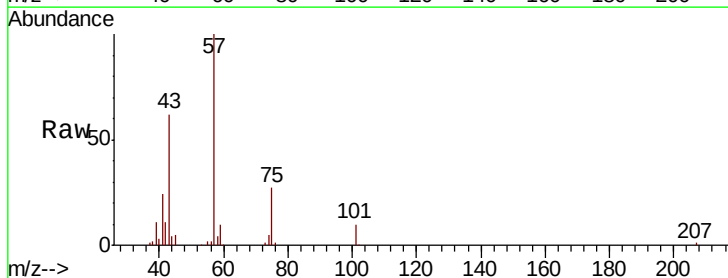
Instrument :
 MSVOA_N
 ClientSampled :
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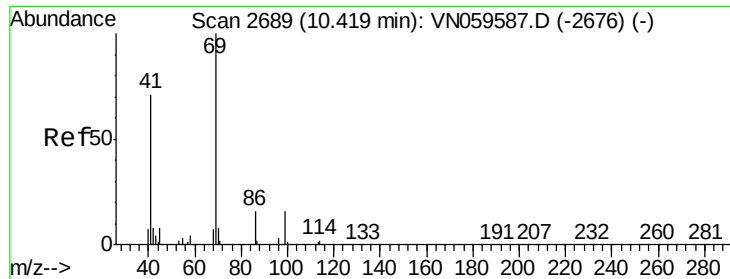
Tot Ion: 43 Resp: 5508
 Ion Ratio Lower Upper
 43 100
 58 35.6 29.8 44.8



#54
 cis-1,3-Dichloropropene
 Concen: 5.144 ug/l
 RT: 9.89 min Scan# 2525
 Delta R.T. 0.06 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

Tgt Ion: 75 Resp: 25524
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 40.2 46.1 69.1#

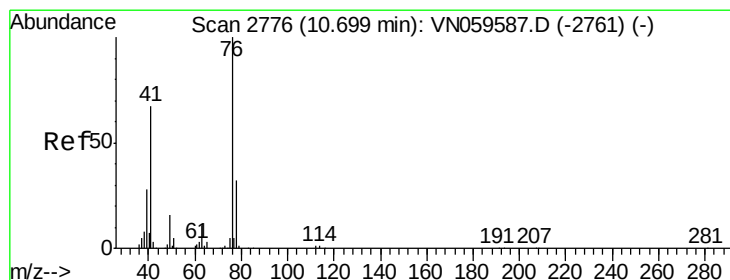
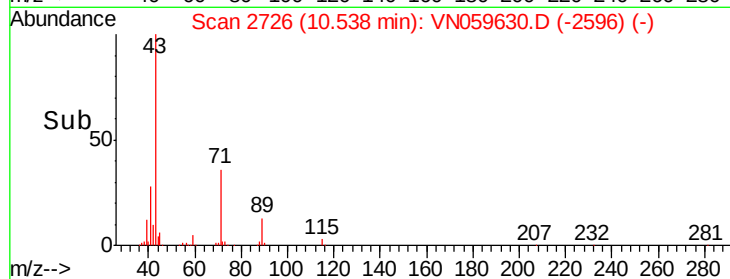
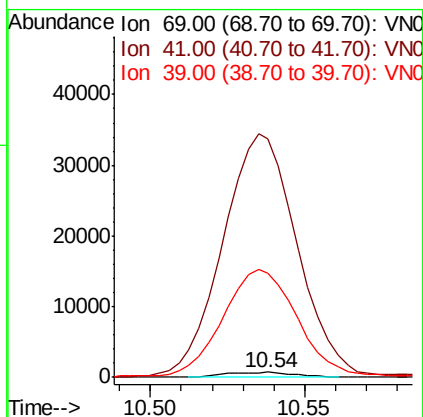
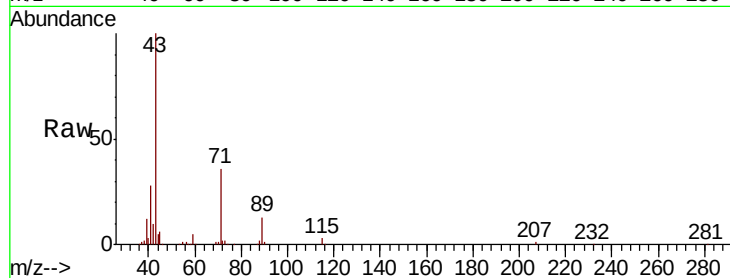




#56
Ethyl methacrylate
Concen: 0.264 ug/l
RT: 10.54 min Scan# 2726
Delta R.T. 0.12 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

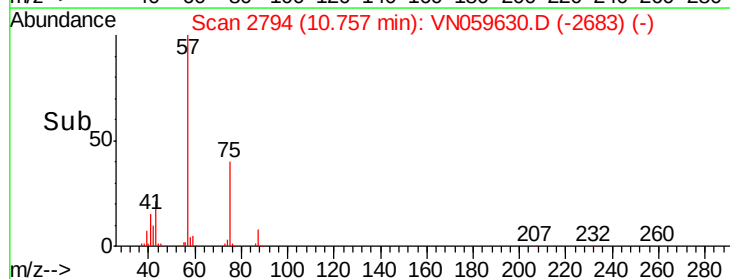
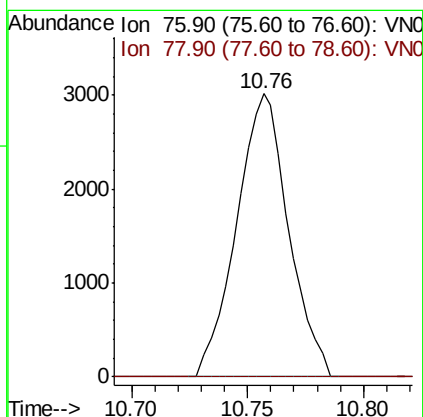
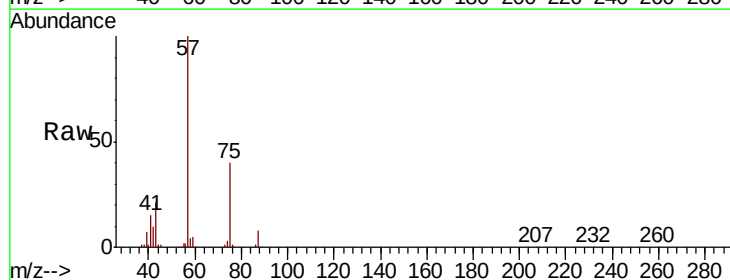
Instrument :
MSVOA_N
ClientSampled :
11978

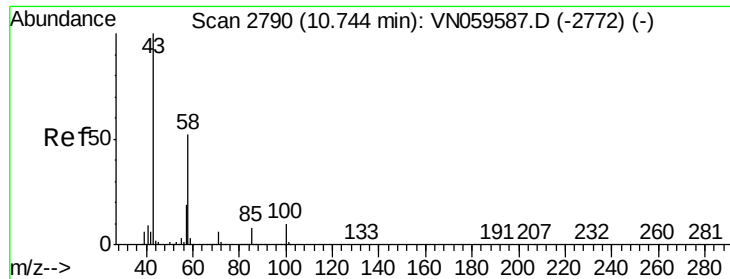
Tot Ion: 69 Resp: 1092
Ion Ratio Lower Upper
69 100
41 5321.9 57.1 85.7#
39 2388.5 34.7 52.1#



#57
1,3-Dichloropropane
Concen: 0.965 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.06 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Tgt Ion: 76 Resp: 4688
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.8#

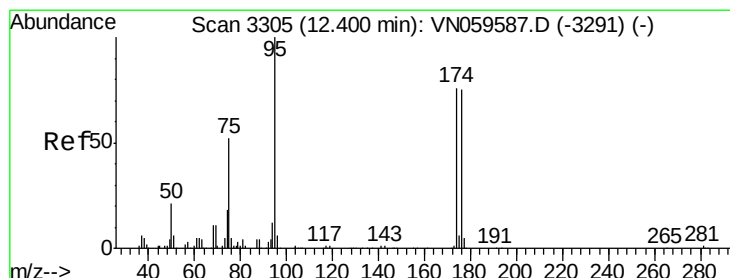
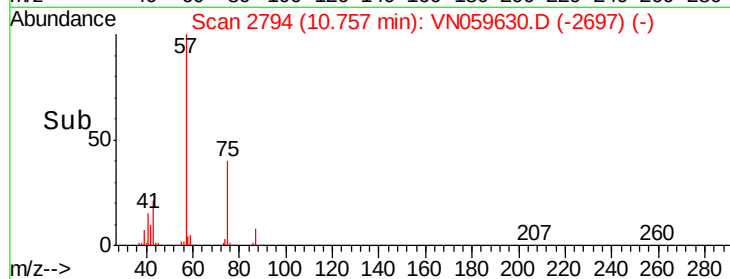
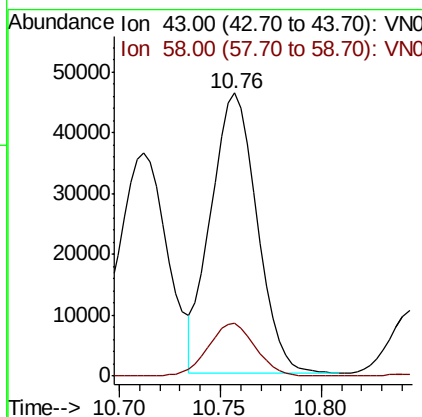
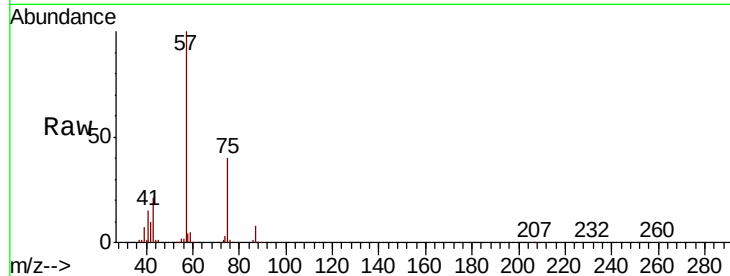




#59
 2-Hexanone
 Concen: 21.809 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

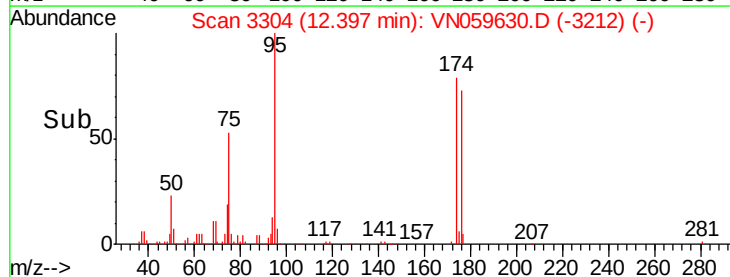
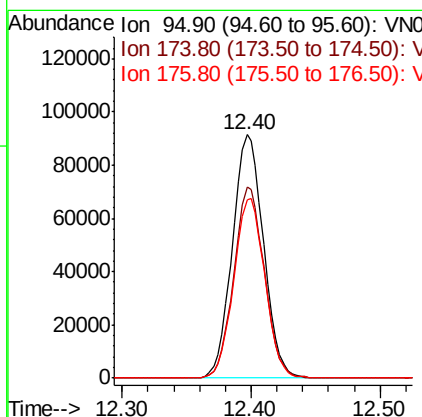
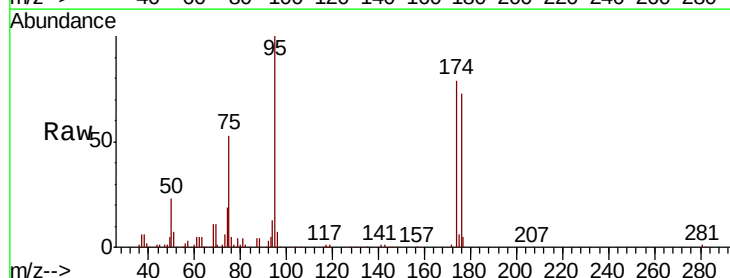
Instrument :
 MSVOA_N
 ClientSampled :
 11978

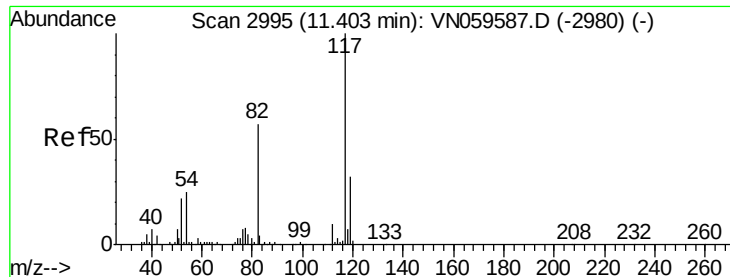
Tot Ion: 43 Resp: 73318
 Ion Ratio Lower Upper
 43 100
 58 19.3 25.8 77.3#



#62
 4-Bromofluorobenzene
 Concen: 44.625 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. -0.00 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

Tgt Ion: 95 Resp: 153141
 Ion Ratio Lower Upper
 95 100
 174 77.1 0.0 151.4
 176 73.7 0.0 146.0

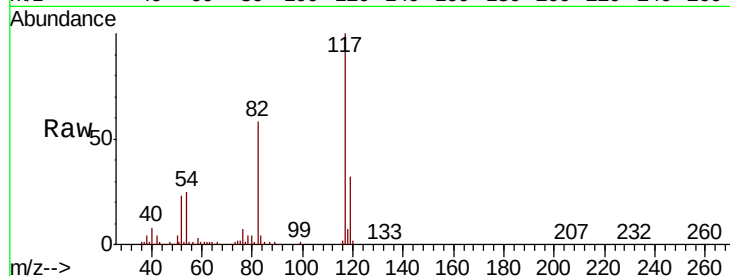




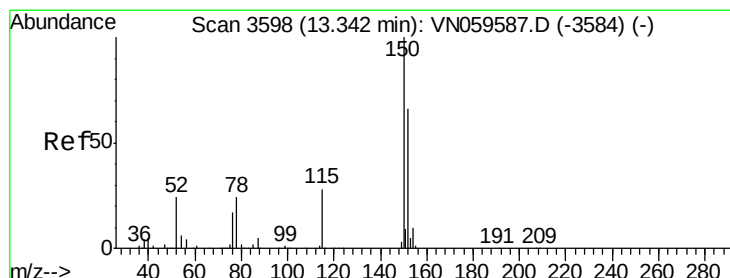
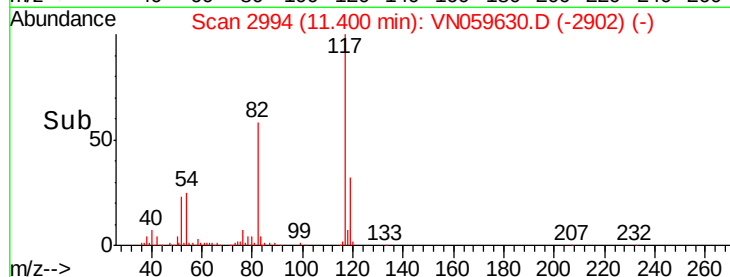
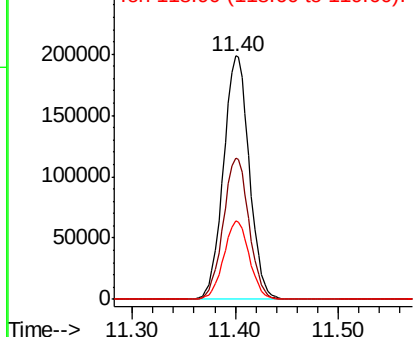
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Instrument :
MSVOA_N
ClientSampled :
11978

Tot Ion:117 Resp: 345541
Ion Ratio Lower Upper
117 100
82 58.1 45.9 68.9
119 32.0 25.5 38.3

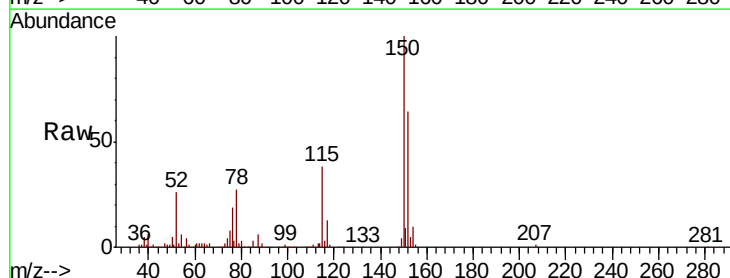


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

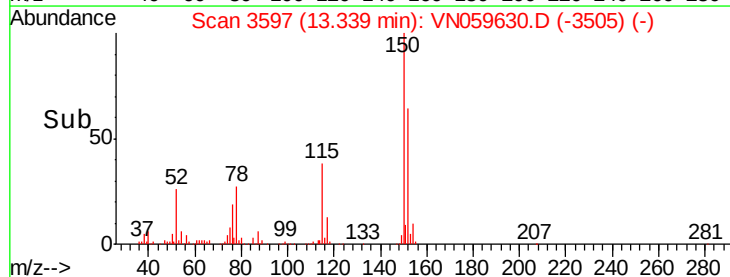
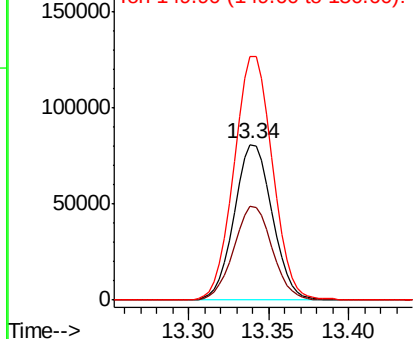


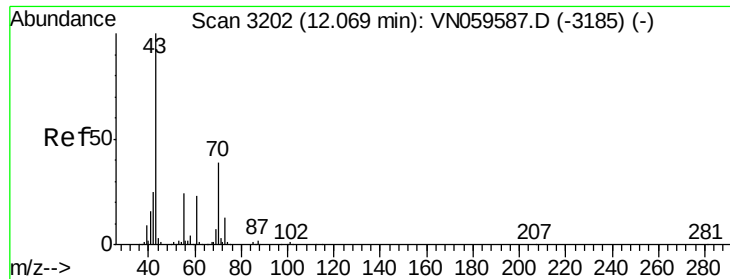
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN059630.D
Acq: 17 Dec 2019 17:20

Tgt Ion:152 Resp: 131021
Ion Ratio Lower Upper
152 100
115 60.8 30.3 90.9
150 158.6 0.0 345.2



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 0.590 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.05 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

11978

Tot Ion: 43 Resp: 2785

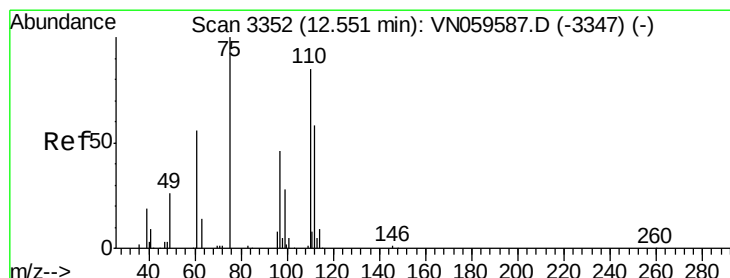
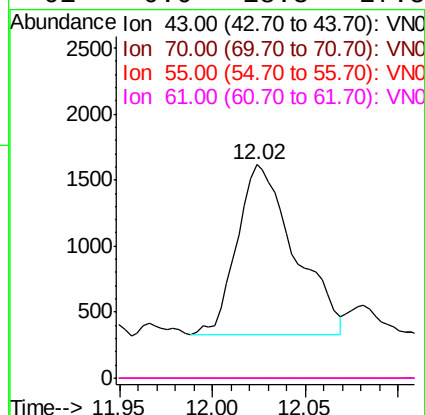
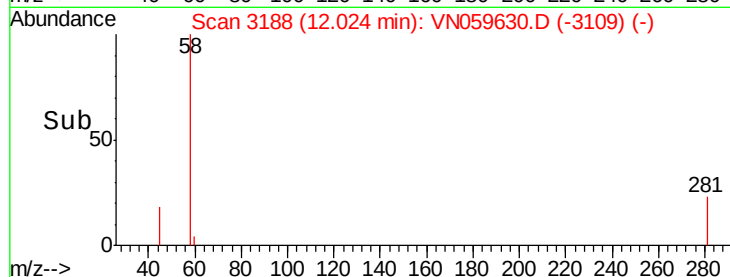
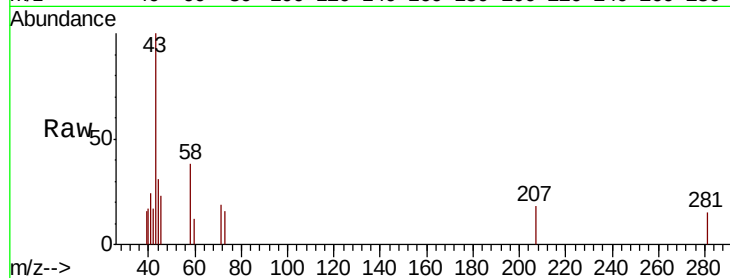
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#



#76

1,2,3-Trichloropropane

Concen: 25.168 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059630.D

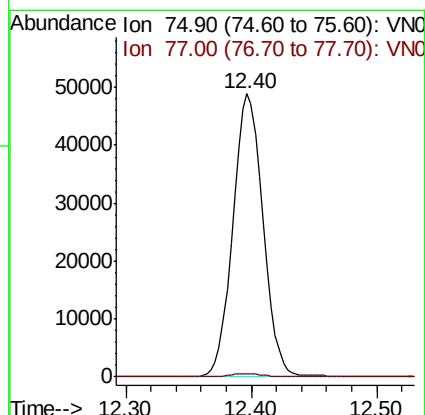
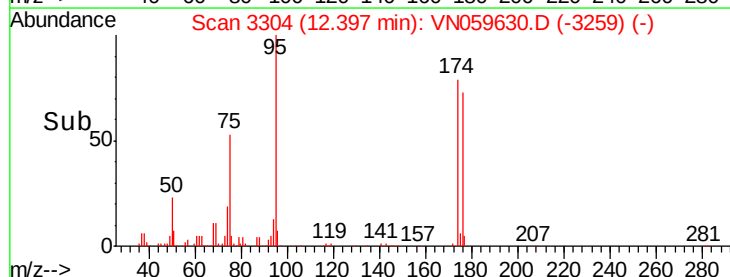
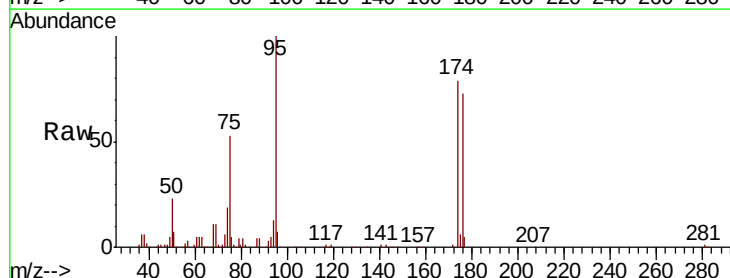
Acq: 17 Dec 2019 17:20

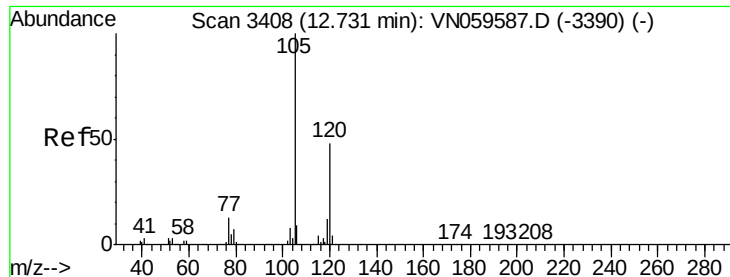
Tgt Ion: 75 Resp: 81633

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#

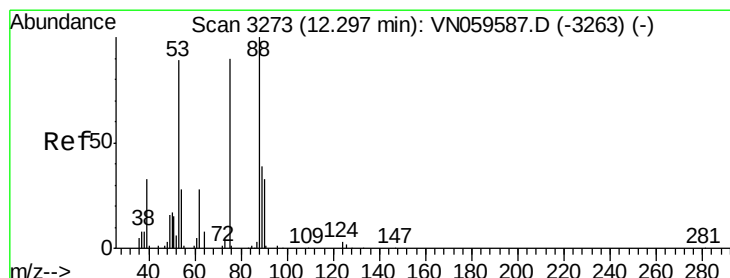
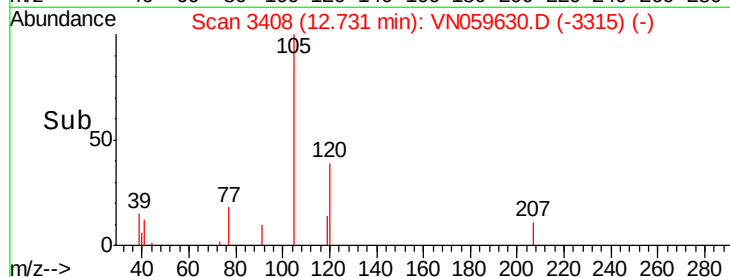
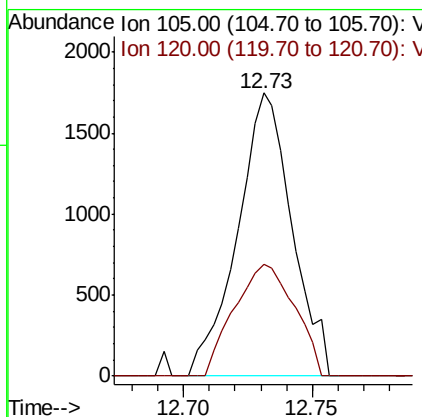
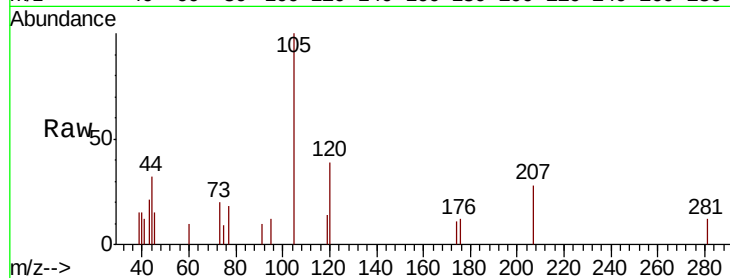




#80
 1,3,5-Trimethylbenzene
 Concen: 0.296 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

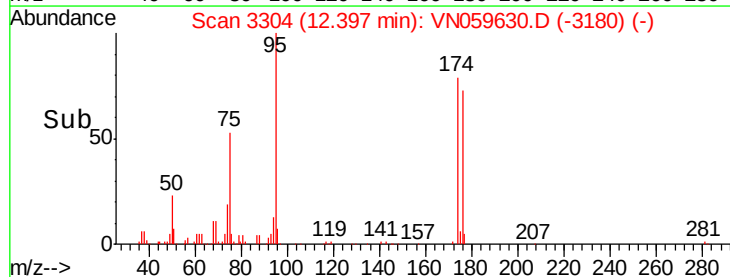
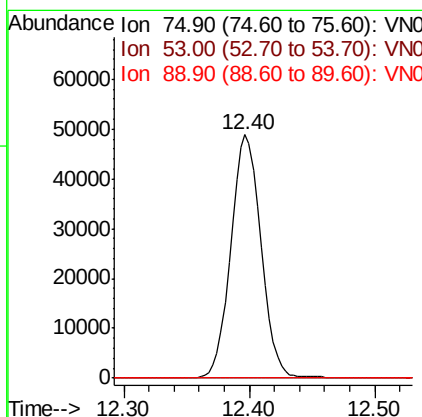
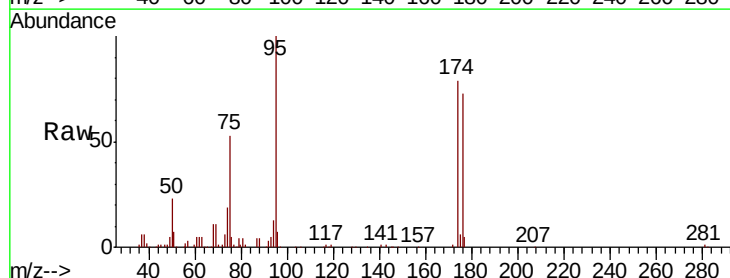
Instrument :
 MSVOA_N
 ClientSampleId :
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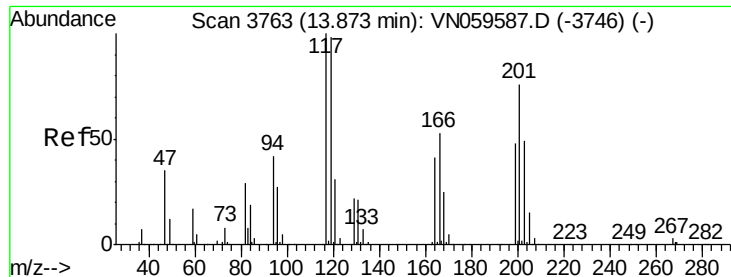
Tot Ion:105 Resp: 2577
 Ion Ratio Lower Upper
 105 100
 120 43.5 24.1 72.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.163 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.10 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

Tgt Ion: 75 Resp: 81633
 Ion Ratio Lower Upper
 75 100
 53 0.0 78.1 117.1#
 89 0.0 35.4 53.2#





#90

Hexachloroethane

Concen: 0.263 ug/l

RT: 14.00 min Scan# 3802

Delta R.T. 0.13 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

Instrument :

MSVOA_N

ClientSampled :

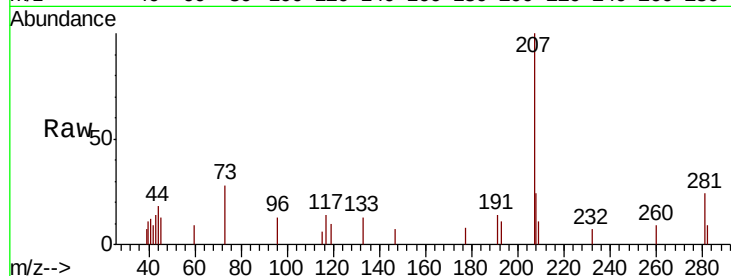
11978

Tot Ion:117 Resp: 441

Ion Ratio Lower Upper

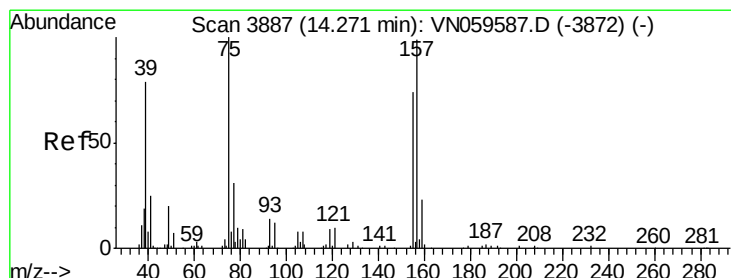
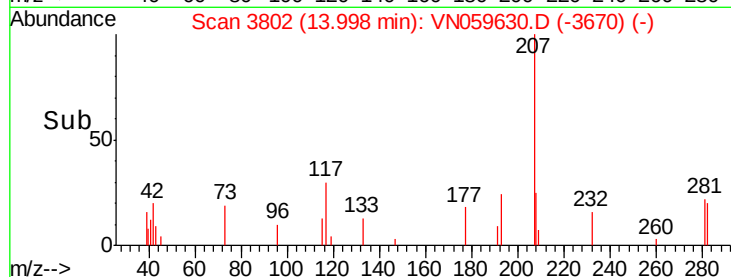
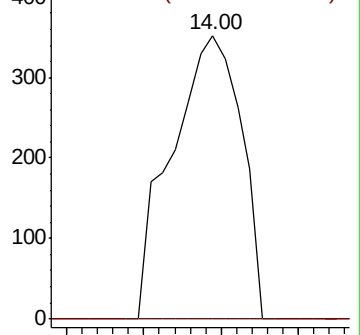
117 100

201 0.0 37.8 113.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.735 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.01 min

Lab File: VN059630.D

Acq: 17 Dec 2019 17:20

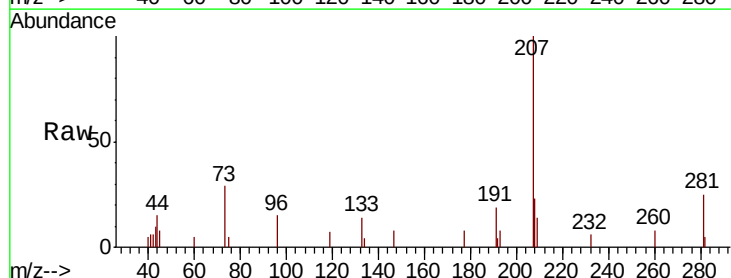
Tgt Ion: 75 Resp: 103

Ion Ratio Lower Upper

75 100

155 0.0 37.0 110.9#

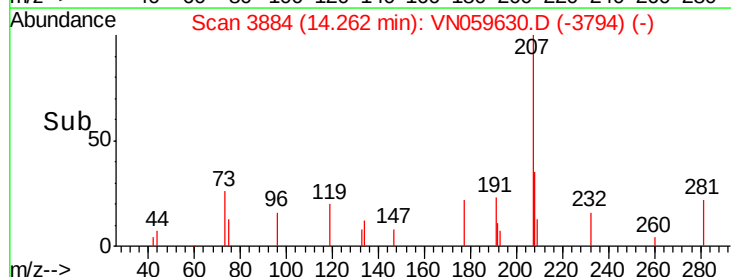
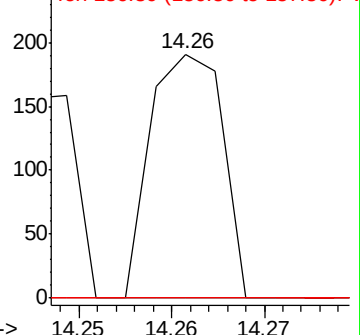
157 0.0 48.4 145.2#

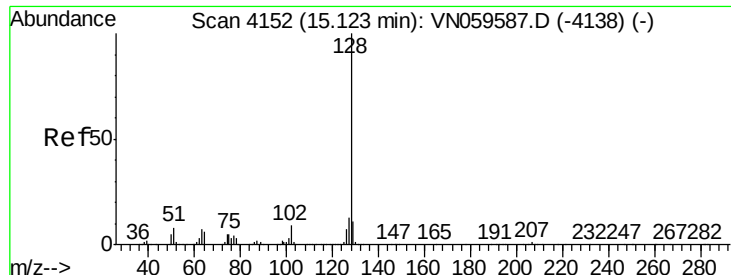


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

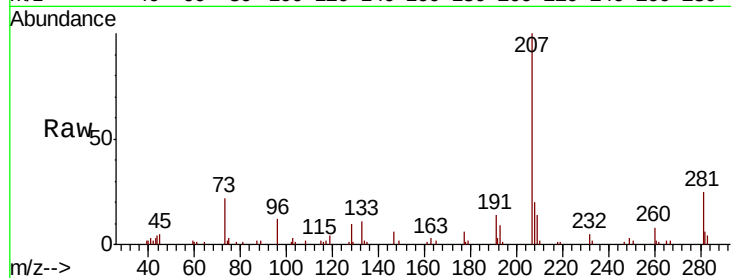




#95
 Naphthalene
 Concen: 0.292 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. -0.00 min
 Lab File: VN059630.D
 Acq: 17 Dec 2019 17:20

Instrument :
 MSVOA_N
 ClientSampleId :
 11978

Tot Ion	Ratio	Lower	Upper
128	100		
127	4.3	10.4	15.6#
129	4.0	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

