

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111920\
 Data File : VN064728.D
 Acq On : 19 Nov 2020 13:13
 Operator : JC/MD
 Sample : L4783-22
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
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Quant Time: Nov 20 03:45:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 18 15:29:54 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	184011	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	370072	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	389310	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	156872	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	182669	56.43	ug/l	0.00
Spiked Amount			Recovery	=	112.86%	
35) Dibromofluoromethane	7.55	113	113561	53.91	ug/l	0.00
Spiked Amount			Recovery	=	107.82%	
50) Toluene-d8	10.06	98	472869	49.40	ug/l	0.00
Spiked Amount			Recovery	=	98.80%	
62) 4-Bromofluorobenzene	12.38	95	190937	53.36	ug/l	0.00
Spiked Amount			Recovery	=	106.72%	

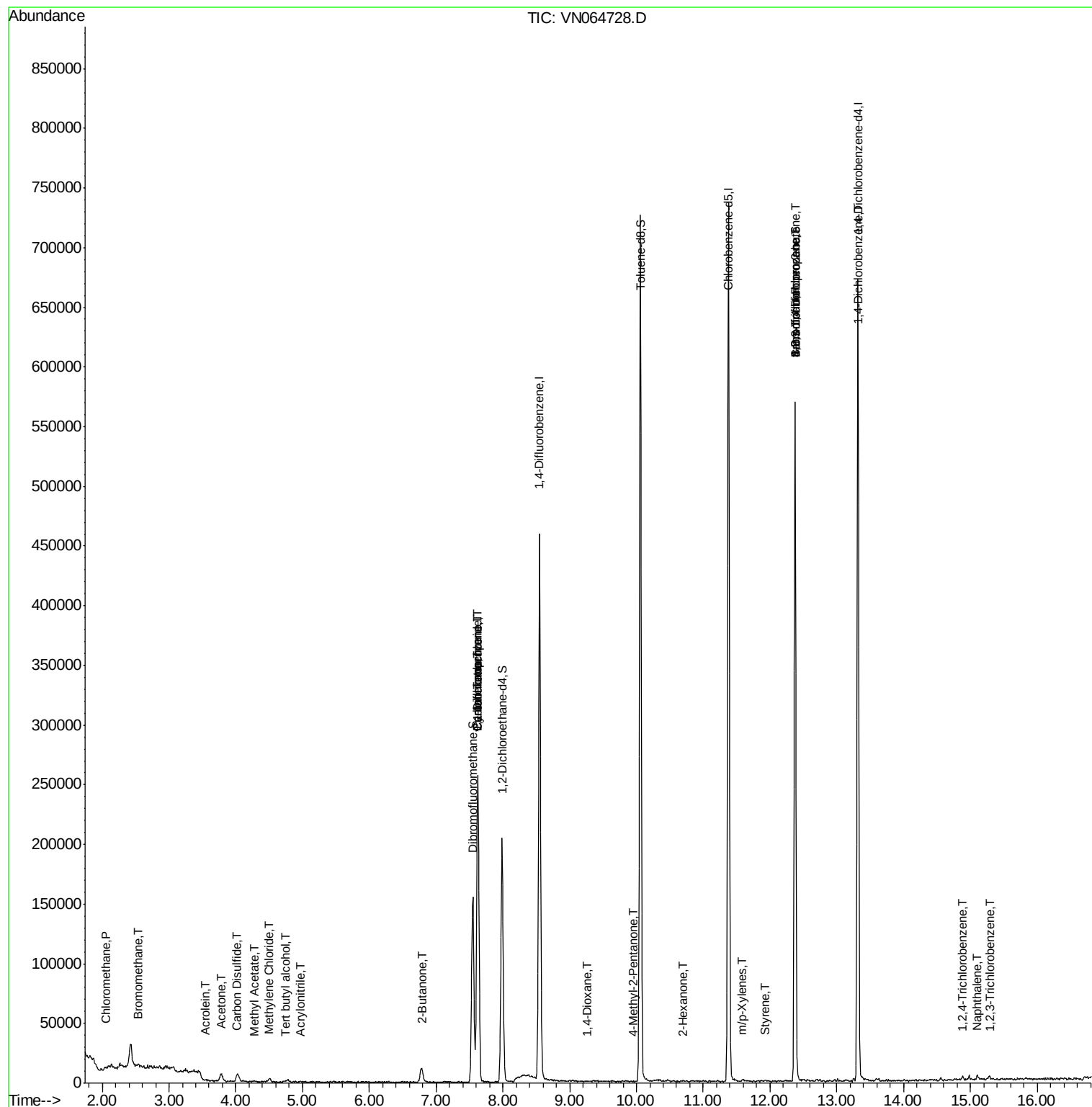
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.05	50	1400	0.551	ug/l #	85
5) Bromomethane	2.55	94	681	0.350	ug/l #	59
11) Tert butyl alcohol	4.75	59	108	0.344	ug/l #	70
13) Acrolein	3.56	56	279	3.795	ug/l #	11
15) Acrylonitrile	4.96	53	295	0.320	ug/l #	37
16) Acetone	3.78	43	10718	18.472	ug/l	93
17) Carbon Disulfide	4.01	76	851	0.279	ug/l #	75
18) Methyl Acetate	4.29	43	648	1.600	ug/l #	54
20) Methylene Chloride	4.50	84	648	0.270	ug/l #	80
25) 2-Butanone	6.79	43	463	0.374	ug/l #	51
31) Cyclohexane	7.61	56	2900	0.829	ug/l #	15
36) 1,1-Dichloropropene	7.62	75	18905	4.965	ug/l #	52
38) Carbon Tetrachloride	7.62	117	22393	5.534	ug/l #	16
49) 1,4-Dioxane	9.26	88	34	0.935	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	132	6.164	ug/l #	39
59) 2-Hexanone	10.71	43	357	8.565	ug/l #	41
68) m/p-Xylenes	11.59	106	95	4.077	ug/l #	1
70) Styrene	11.93	104	411	2.576	ug/l #	58
71) Bromoform	12.37	173	704	2.725	ug/l #	1
76) 1,2,3-Trichloropropane	12.37	75	111179	32.893	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.37	75	111179	83.702	ug/l #	5
88) 1,4-Dichlorobenzene	13.33	146	1386	0.264	ug/l #	55
93) 1,2,4-Trichlorobenzene	14.88	180	719	1.589	ug/l #	52
95) Naphthalene	15.10	128	3275	0.371	ug/l #	93
96) 1,2,3-Trichlorobenzene	15.29	180	984	1.129	ug/l	81

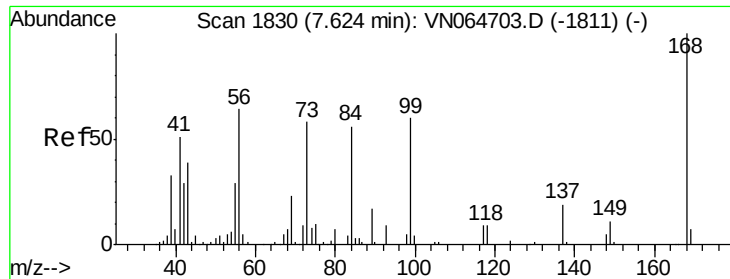
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N111820W.M
Quant Title : SW846 8260
QLast Update : Wed Nov 18 15:29:54 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

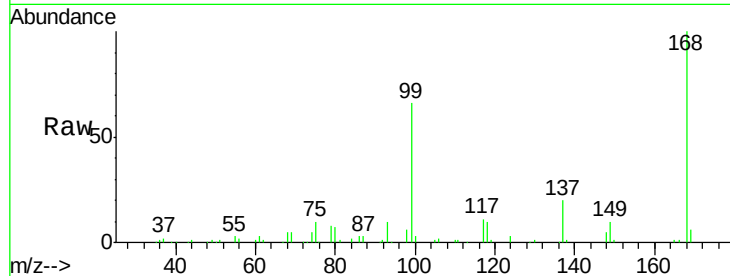
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Tot Ion:168 Resp: 184011

Ion Ratio Lower Upper

168 100

99 66.3 55.7 83.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

80000

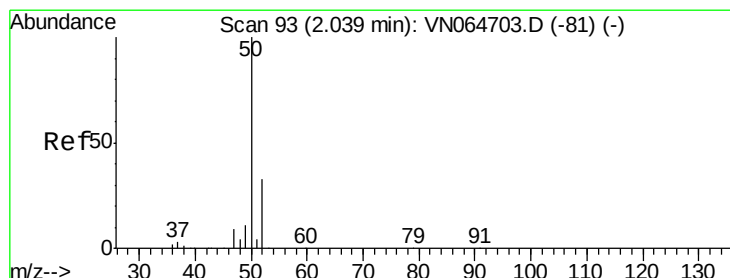
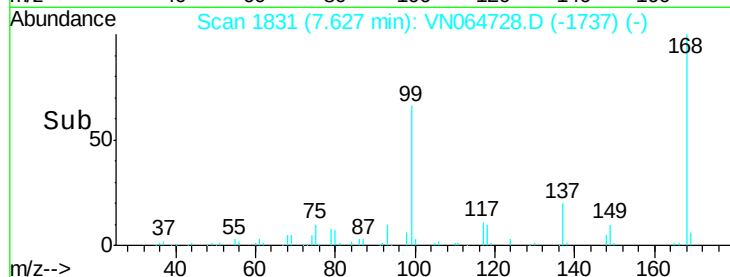
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#3

Chloromethane

Concen: 0.551 ug/l

RT: 2.05 min Scan# 95

Delta R.T. 0.01 min

Lab File: VN064728.D

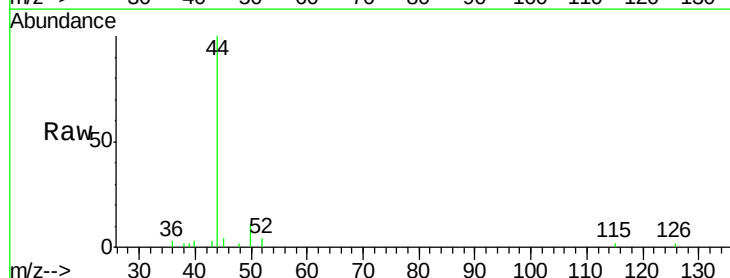
Acq: 19 Nov 2020 13:13

Tgt Ion: 50 Resp: 1400

Ion Ratio Lower Upper

50 100

52 41.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.05

1200

1000

800

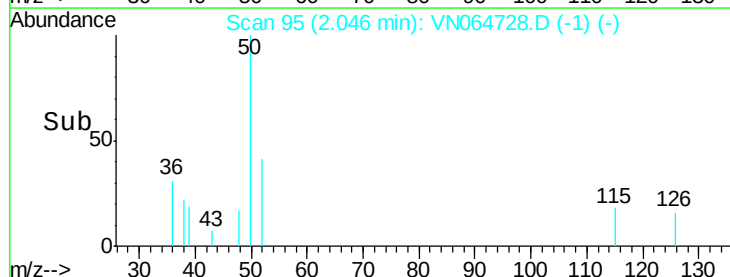
600

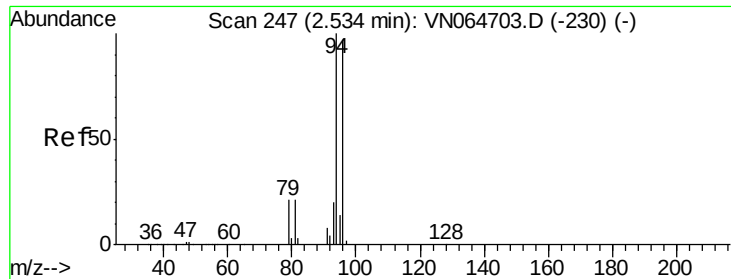
400

200

0

Time--> 2.00 2.02 2.04 2.06





#5

Bromomethane

Concen: 0.350 ug/l

RT: 2.55 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

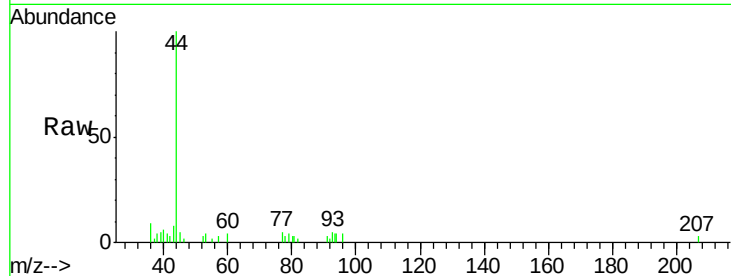
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Tot Ion: 94 Resp: 681

Ion Ratio Lower Upper

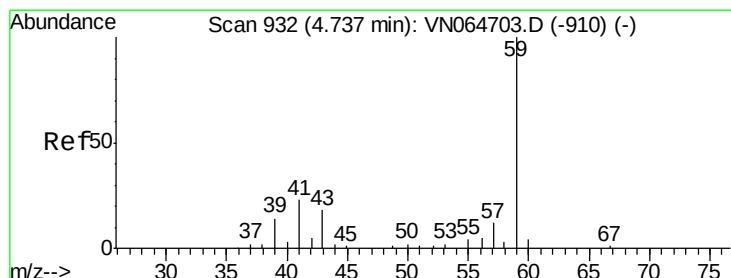
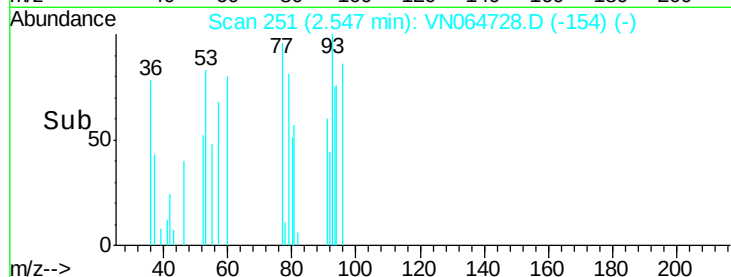
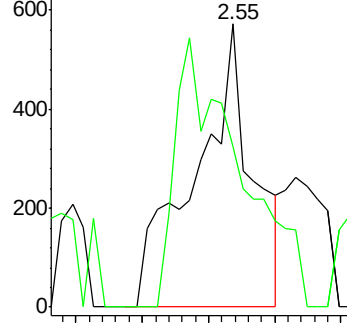
94 100

96 56.8 77.8 116.8#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.344 ug/l

RT: 4.75 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN064728.D

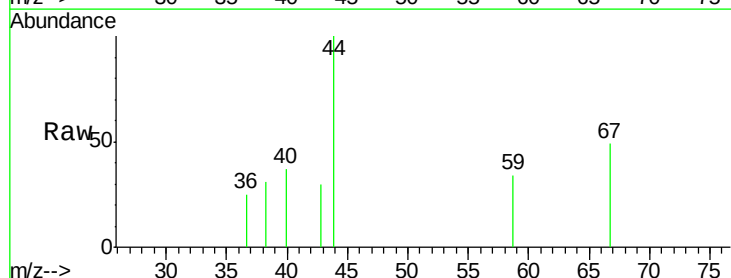
Acq: 19 Nov 2020 13:13

Tgt Ion: 59 Resp: 108

Ion Ratio Lower Upper

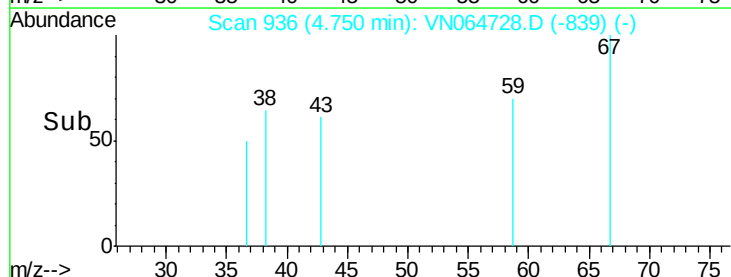
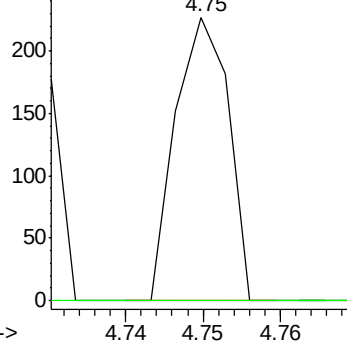
59 100

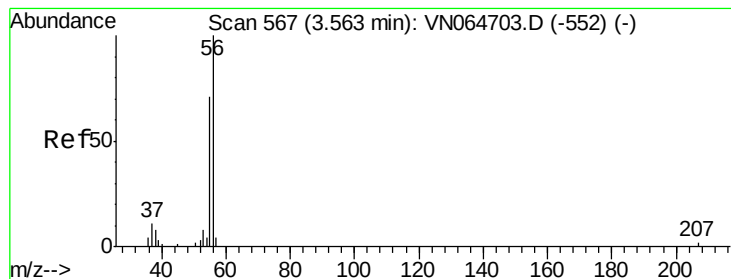
57 0.0 9.1 13.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 3.795 ug/l

RT: 3.56 min Scan# 566

Delta R.T. -0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

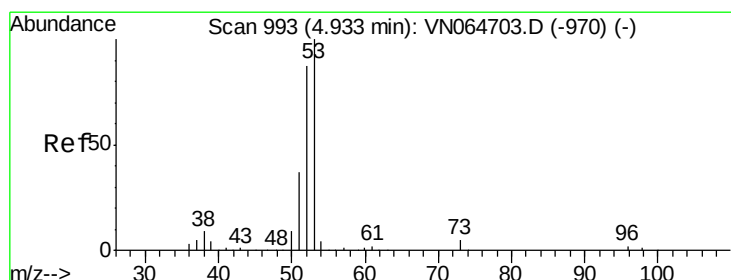
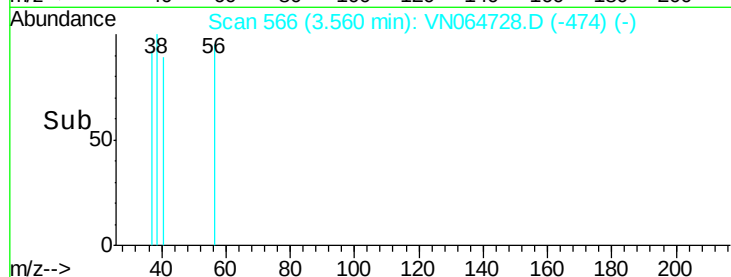
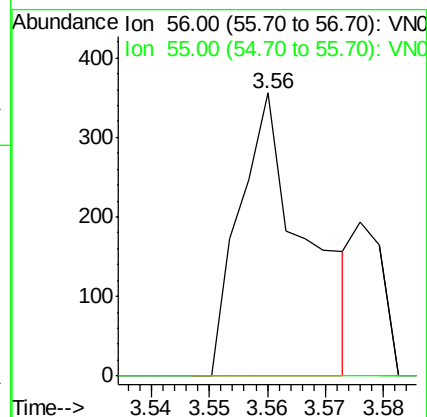
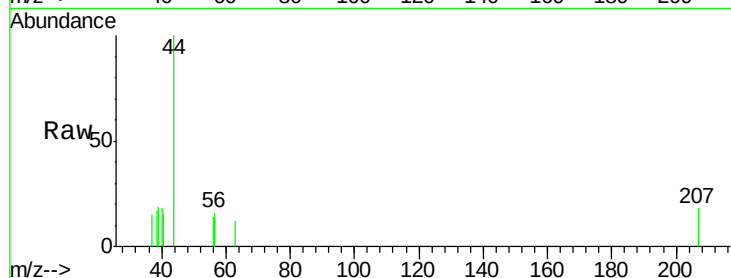
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Tot Ion: 56 Resp: 279

Ion Ratio Lower Upper

56 100

55 0.0 61.8 92.6#



#15

Acrylonitrile

Concen: 0.320 ug/l

RT: 4.96 min Scan# 1001

Delta R.T. 0.03 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

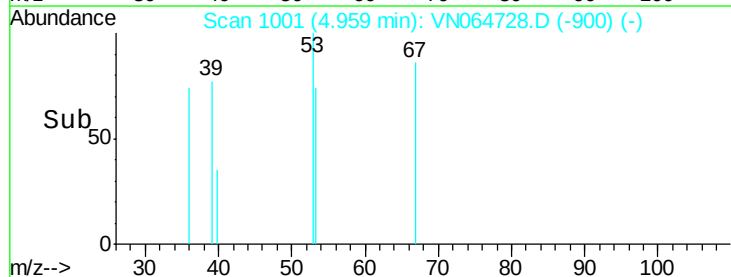
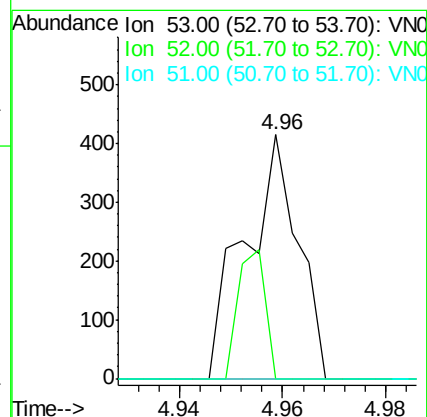
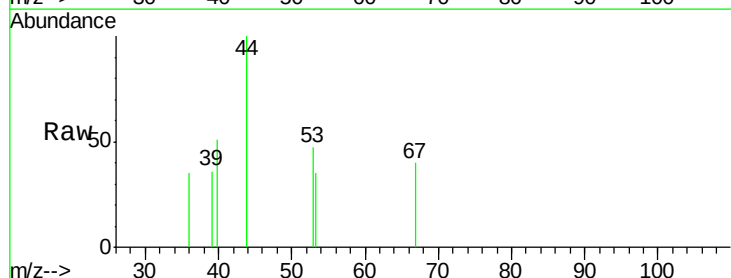
Tgt Ion: 53 Resp: 295

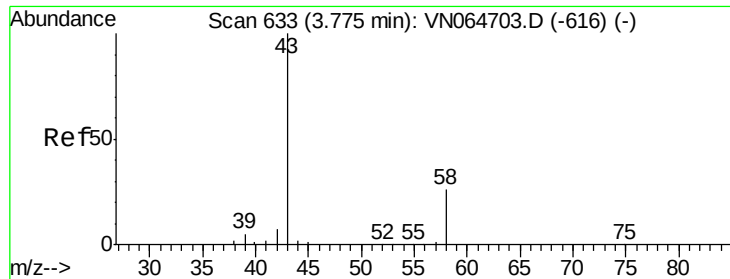
Ion Ratio Lower Upper

53 100

52 27.1 67.2 100.8#

51 0.0 31.0 46.6#





#16

Acetone

Concen: 18.472 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

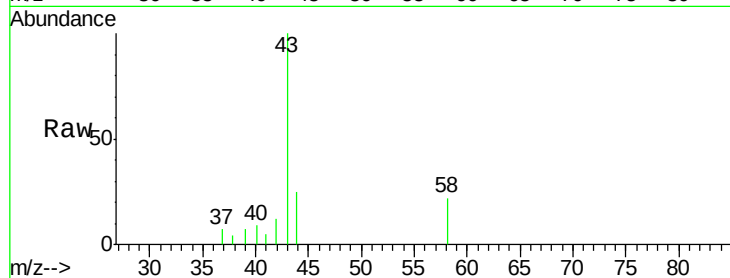
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Tot Ion: 43 Resp: 10718

Ion Ratio Lower Upper

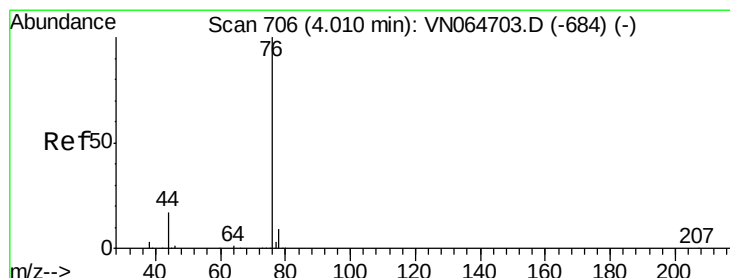
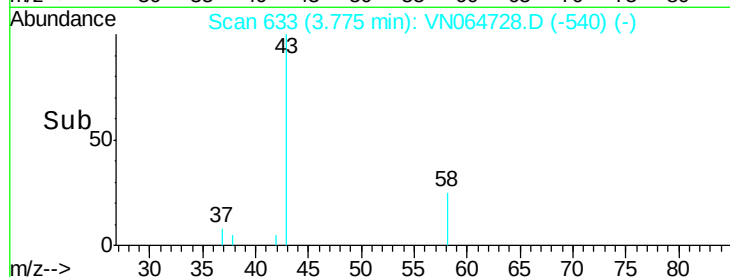
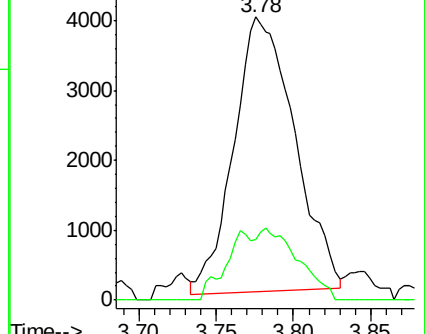
43 100

58 23.1 21.2 31.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.279 ug/l

RT: 4.01 min Scan# 705

Delta R.T. -0.00 min

Lab File: VN064728.D

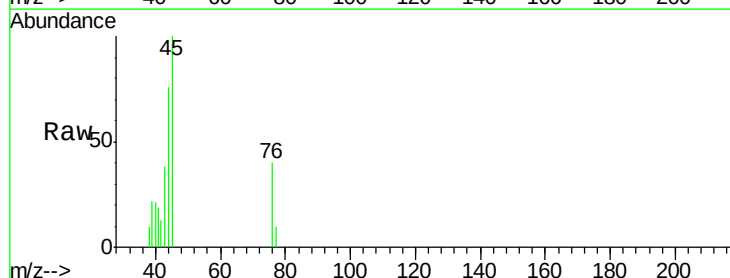
Acq: 19 Nov 2020 13:13

Tgt Ion: 76 Resp: 851

Ion Ratio Lower Upper

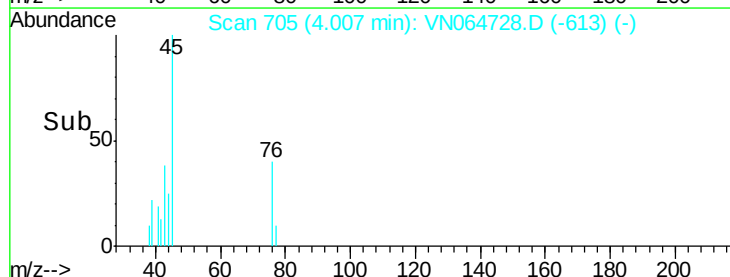
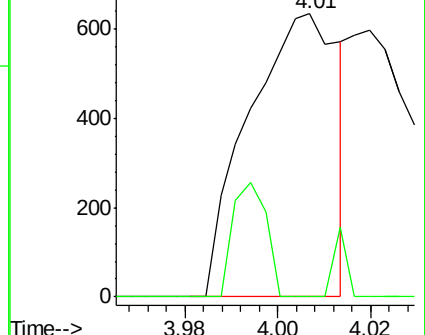
76 100

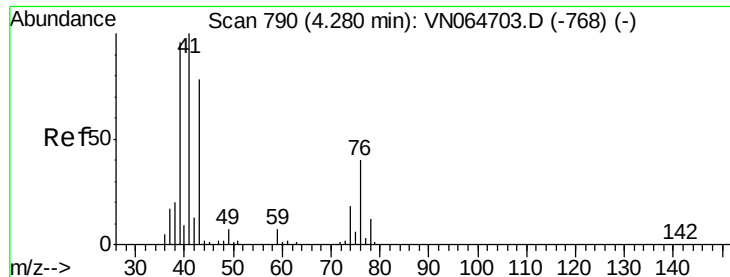
78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

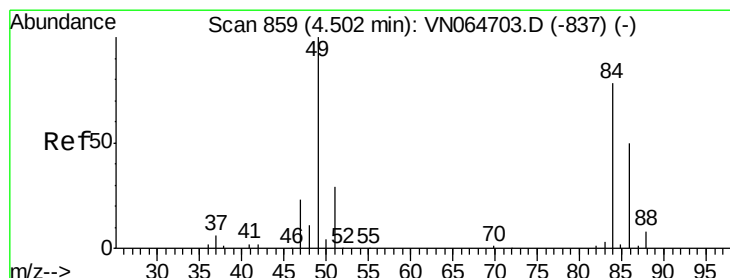
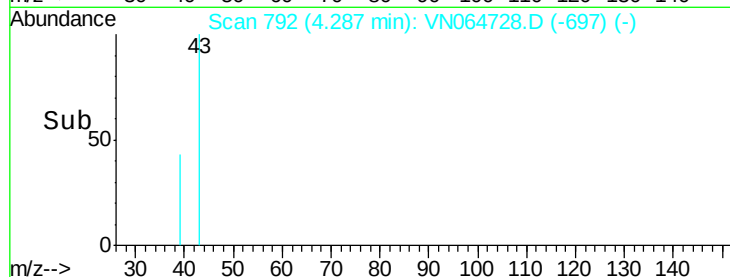
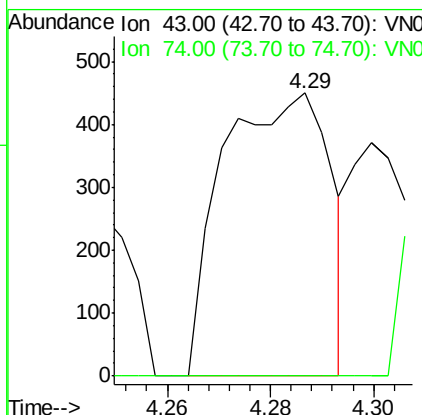
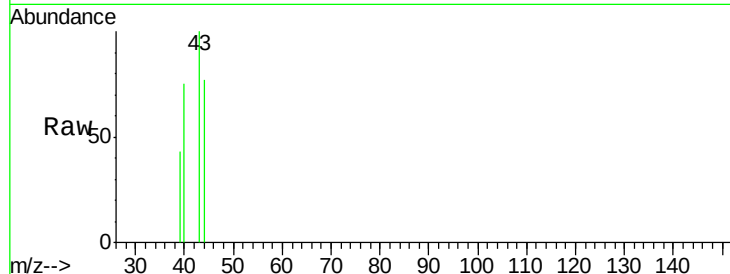




#18
Methyl Acetate
Concen: 1.600 ug/l
RT: 4.29 min Scan# 792
Delta R.T. 0.01 min
Lab File: VN064728.D
Acq: 19 Nov 2020 13:13

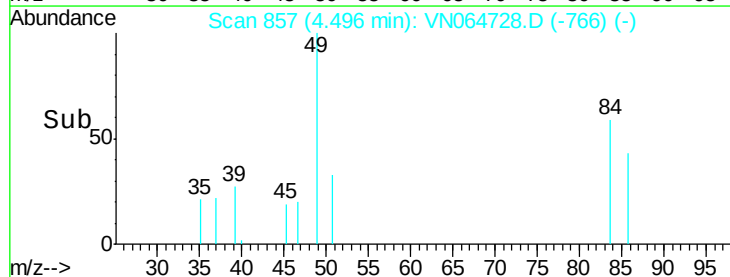
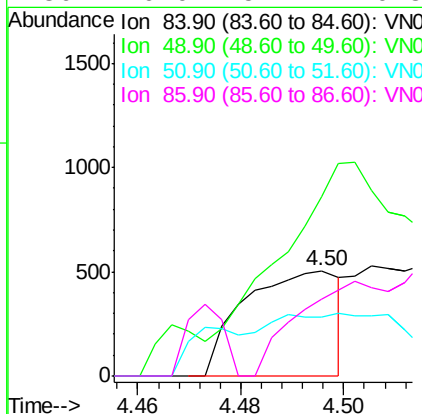
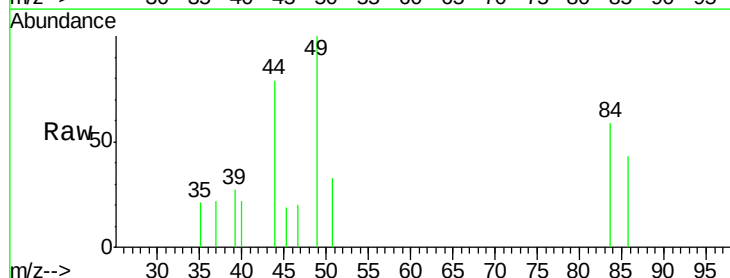
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MSVOA_N
ClientSampled :
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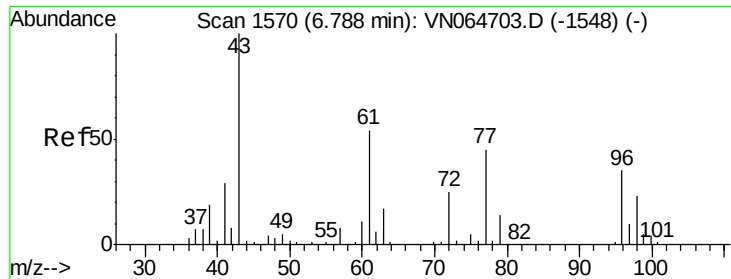
Tot Ion: 43 Resp: 648
Ion Ratio Lower Upper
43 100
74 0.0 17.6 26.4#



#20
Methylene Chloride
Concen: 0.270 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064728.D
Acq: 19 Nov 2020 13:13

Tgt Ion: 84 Resp: 648
Ion Ratio Lower Upper
84 100
49 127.5 102.4 153.6
51 22.9 29.4 44.2#
86 20.0 51.2 76.8#





#25

2-Butanone

Concen: 0.374 ug/l

RT: 6.79 min Scan# 1571

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

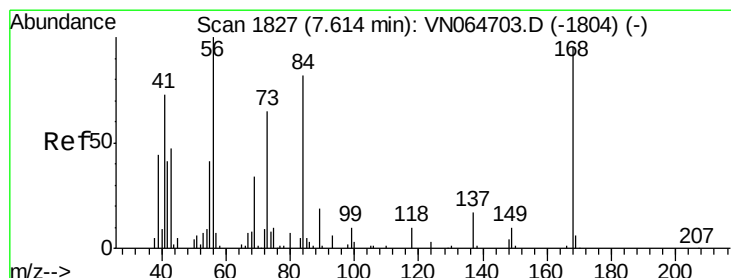
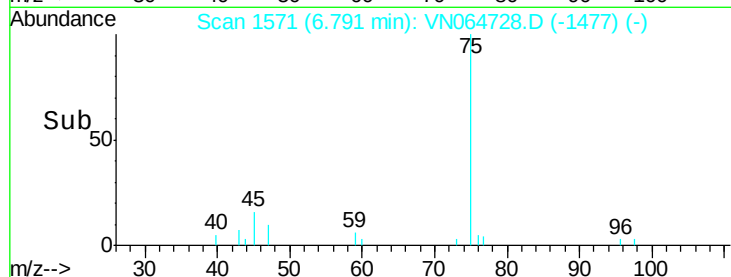
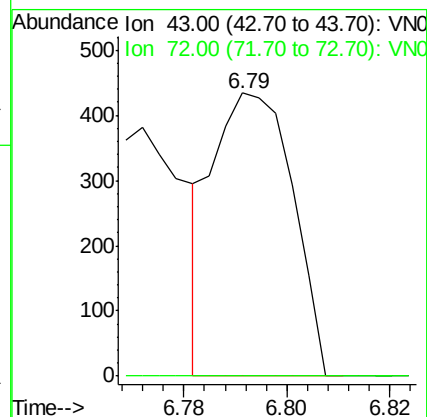
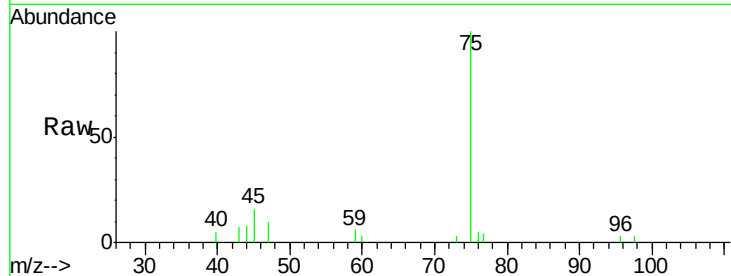
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Tot Ion: 43 Resp: 463

Ion Ratio Lower Upper

43 100

72 0.0 19.7 29.5#



#31

Cyclohexane

Concen: 0.829 ug/l

RT: 7.61 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

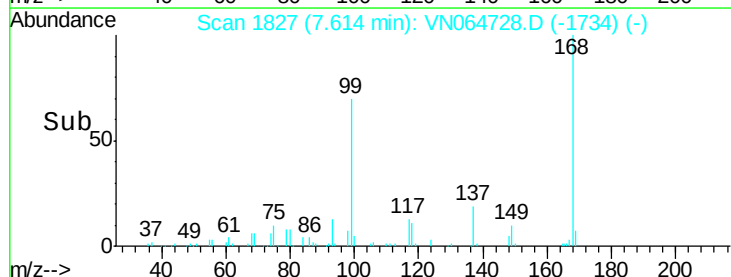
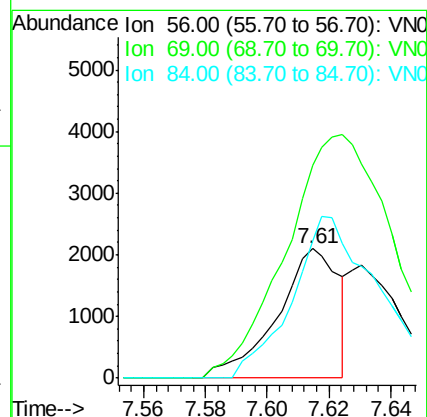
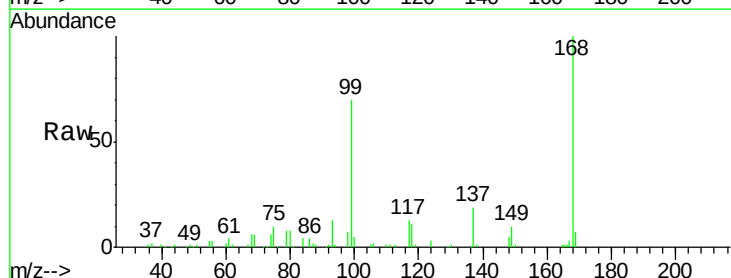
Tgt Ion: 56 Resp: 2900

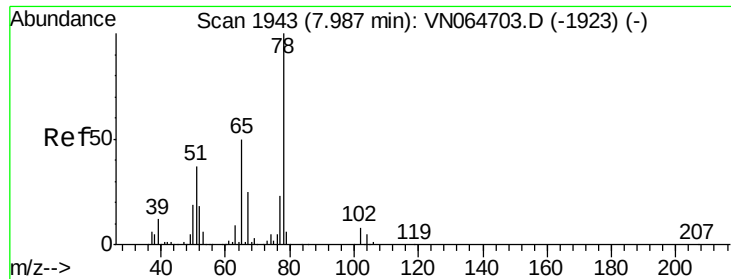
Ion Ratio Lower Upper

56 100

69 163.8 27.2 40.8#

84 106.2 65.9 98.9#

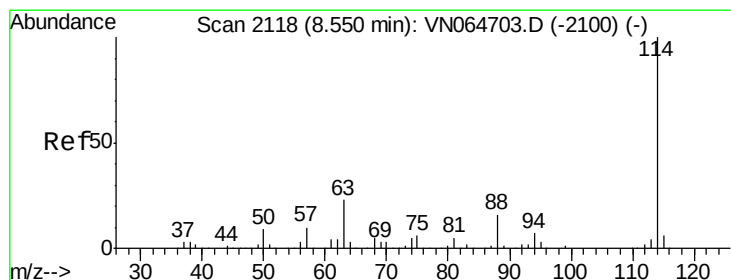
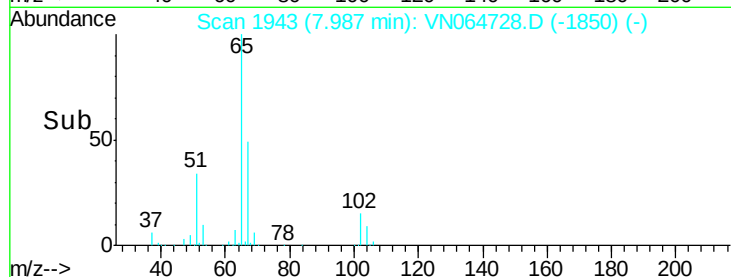
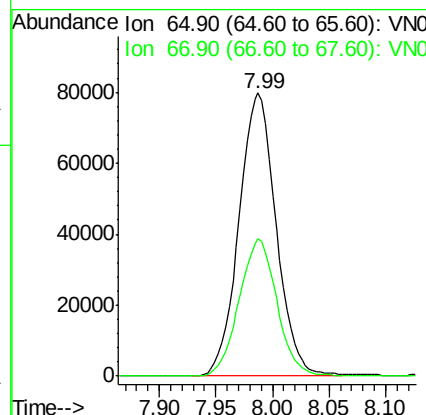
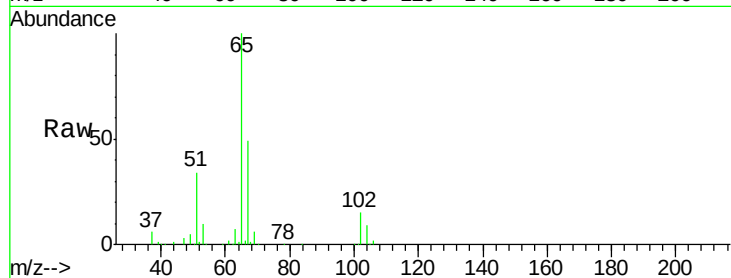




#33
 1,2-Dichloroethane-d4
 Concen: 56.431 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

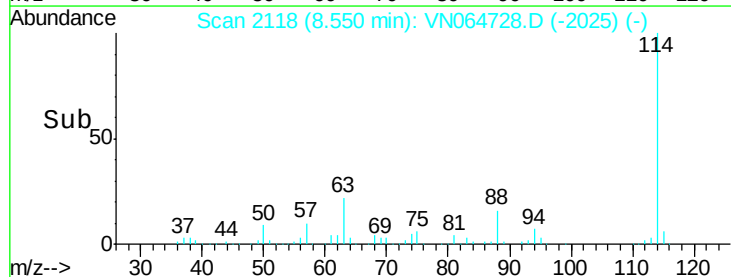
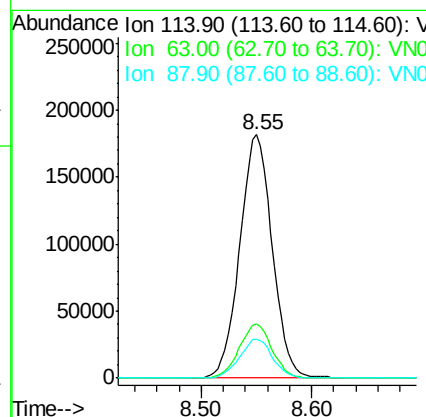
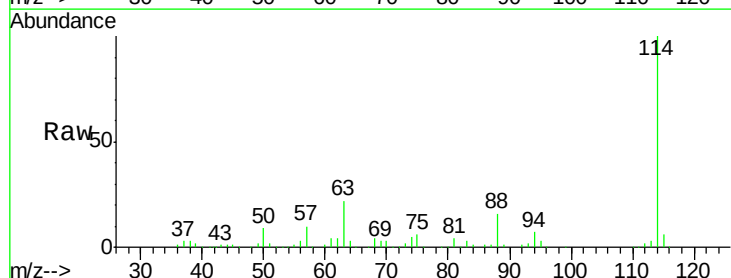
Instrument :
 MSVOA_N
 ClientSampleId :
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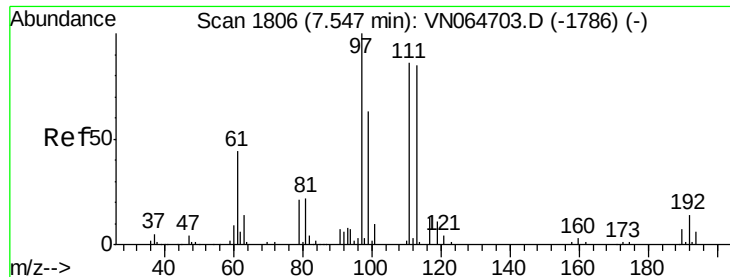
Tot Ion: 65 Resp: 182669
 Ion Ratio Lower Upper
 65 100
 67 49.3 0.0 99.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

Tgt Ion: 114 Resp: 370072
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 46.0
 88 16.0 0.0 31.2

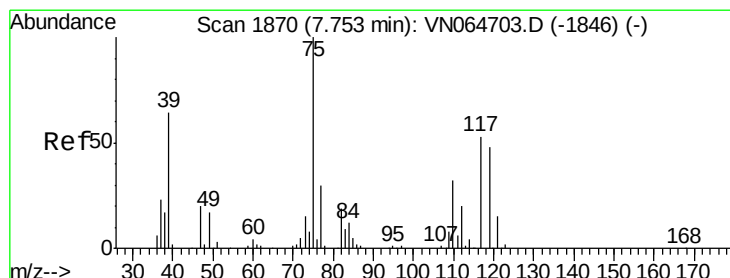
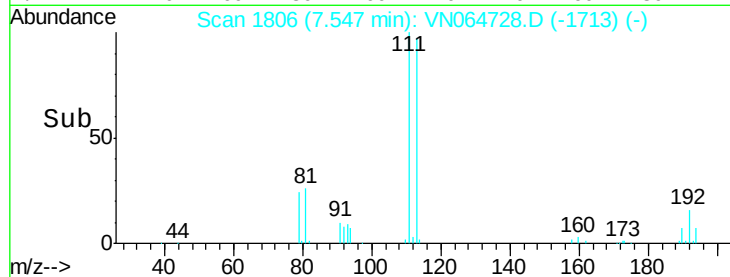
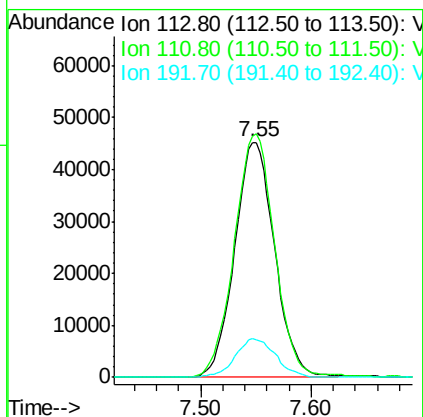
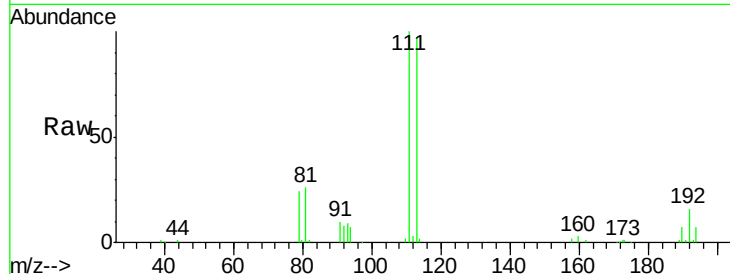




#35
 Dibromofluoromethane
 Concen: 53.914 ug/l
 RT: 7.55 min Scan# 1806
 Delta R.T. 0.00 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

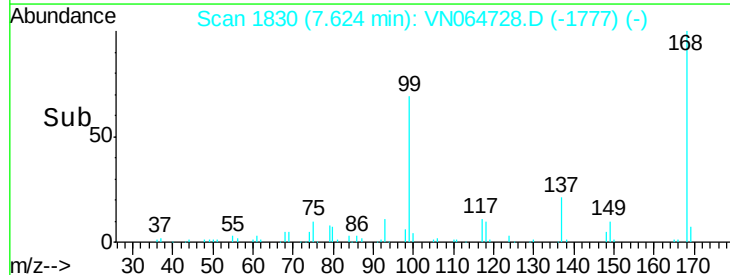
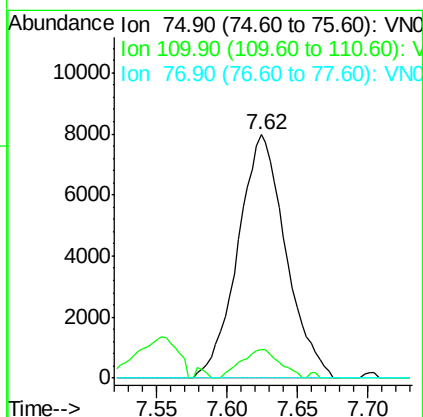
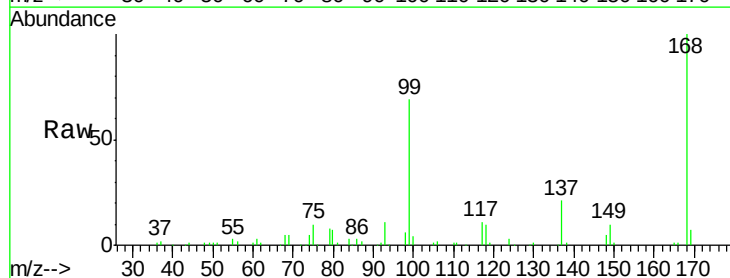
Instrument :
 MSVOA_N
 ClientSampled :
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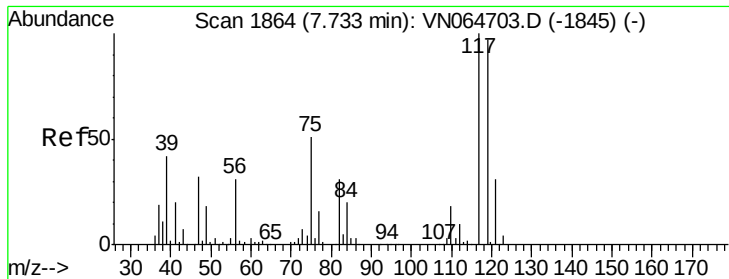
Tot Ion:113 Resp: 113561
 Ion Ratio Lower Upper
 113 100
 111 105.0 82.2 123.4
 192 16.5 12.7 19.1



#36
 1,1-Dichloropropene
 Concen: 4.965 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

Tgt Ion: 75 Resp: 18905
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.2 48.6#
 77 0.0 24.4 36.6#





#38

Carbon Tetrachloride

Concen: 5.534 ug/l

RT: 7.62 min Scan# 1829

Delta R.T. -0.11 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

FIELD-BLANK

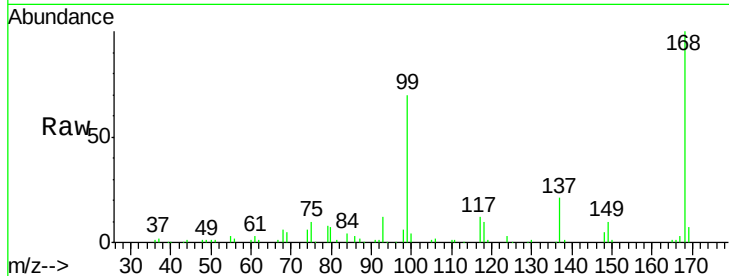
Tot Ion:117 Resp: 22393

Ion Ratio Lower Upper

117 100

119 6.2 77.8 116.6#

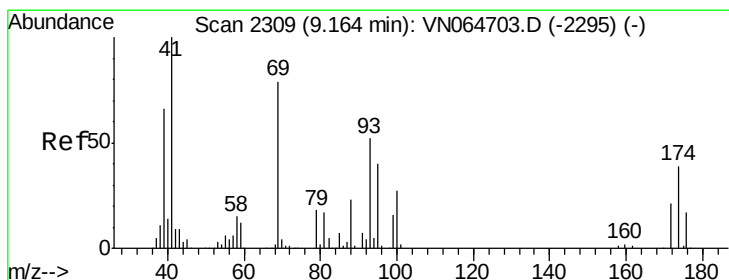
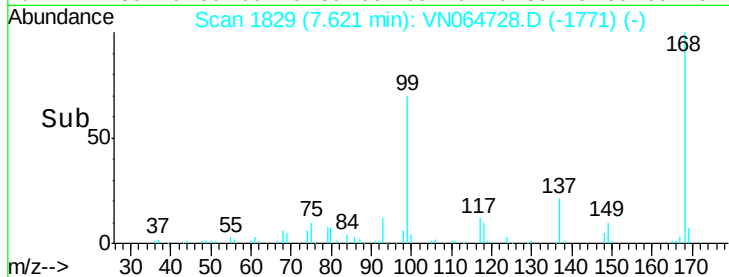
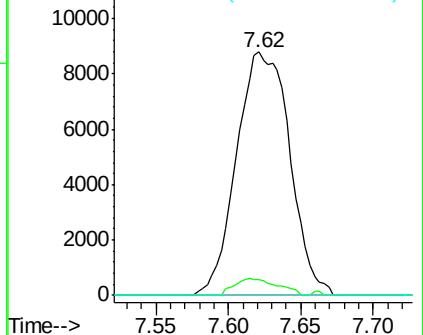
121 0.0 24.9 37.3#



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



#49

1,4-Dioxane

Concen: 0.935 ug/l

RT: 9.26 min Scan# 2338

Delta R.T. 0.09 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

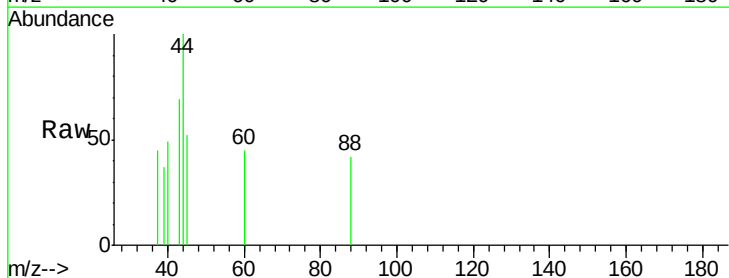
Tgt Ion: 88 Resp: 34

Ion Ratio Lower Upper

88 100

43 402.9 31.3 46.9#

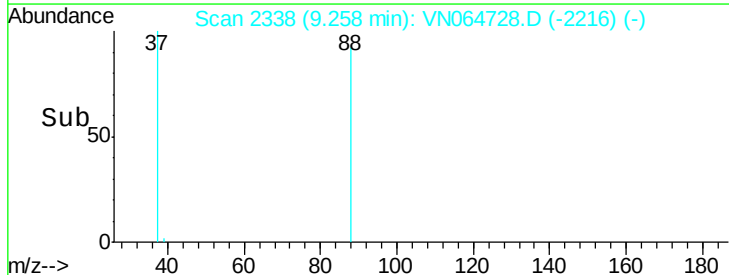
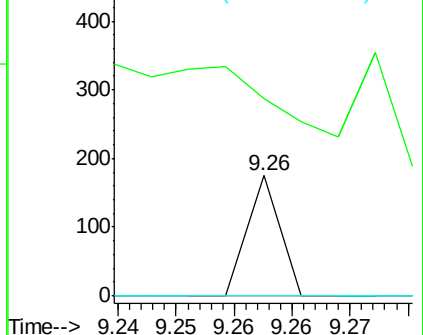
58 0.0 55.7 83.5#

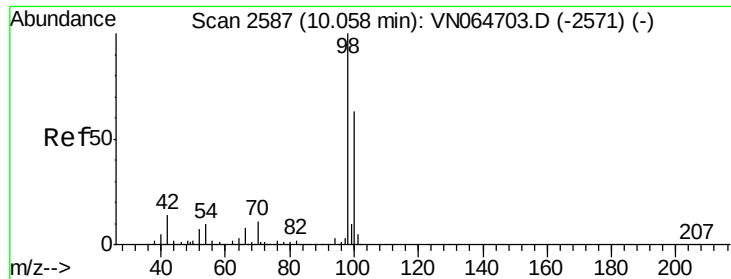


Abundance Ion 88.00 (87.70 to 88.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO





#50

Toluene-d8

Concen: 49.396 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

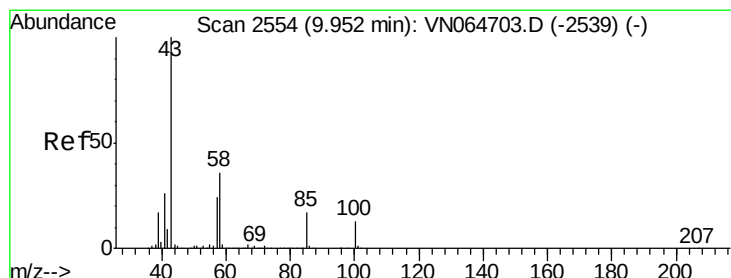
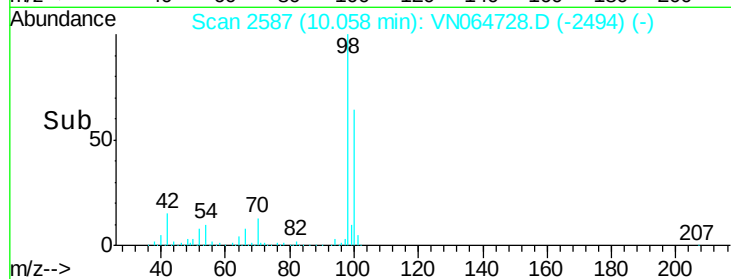
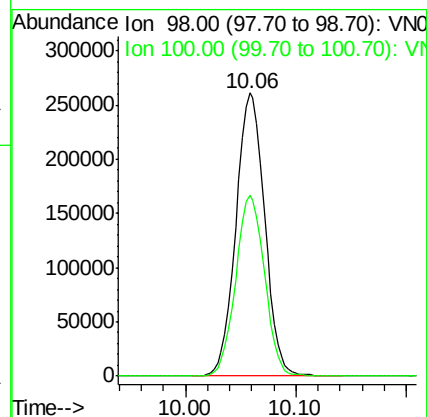
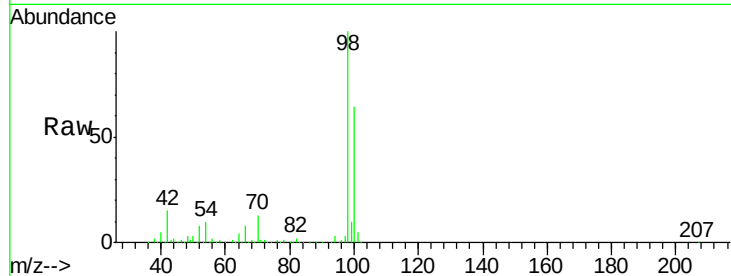
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Tot Ion: 98 Resp: 472869

Ion Ratio Lower Upper

98 100

100 63.9 50.4 75.6



#51

4-Methyl-2-Pentanone

Concen: 6.164 ug/l

RT: 9.95 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN064728.D

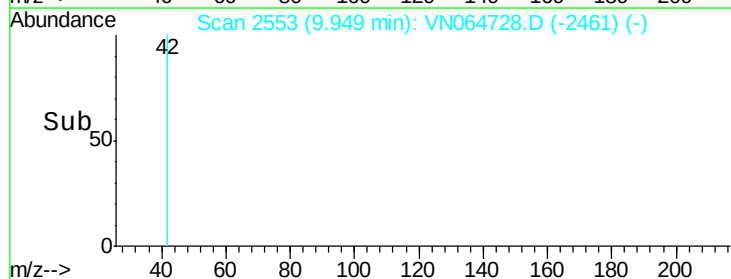
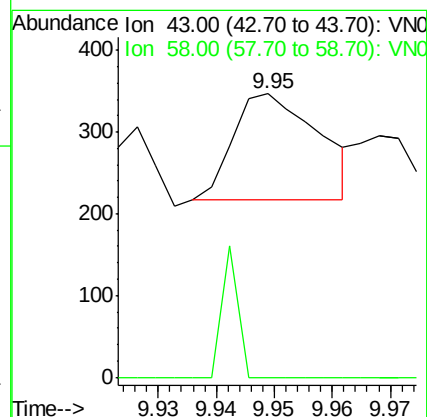
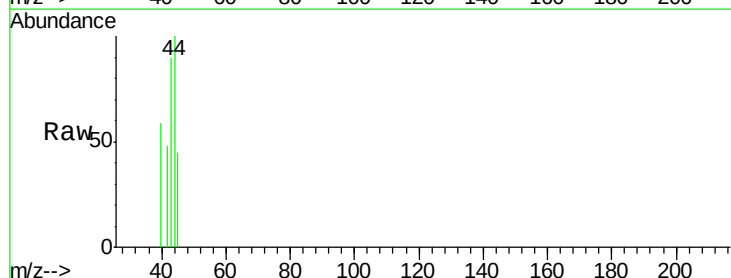
Acq: 19 Nov 2020 13:13

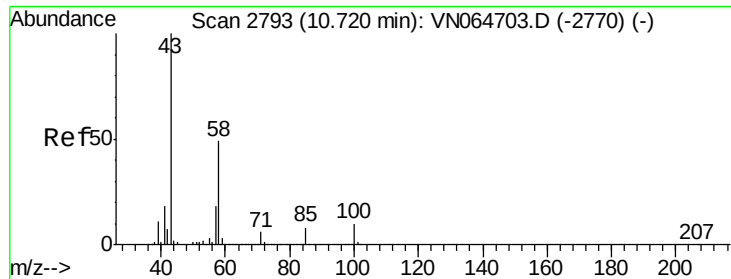
Tgt Ion: 43 Resp: 132

Ion Ratio Lower Upper

43 100

58 0.0 28.5 42.7#





#59

2-Hexanone

Concen: 8.565 ug/l

RT: 10.71 min Scan# 2791

Delta R.T. -0.01 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

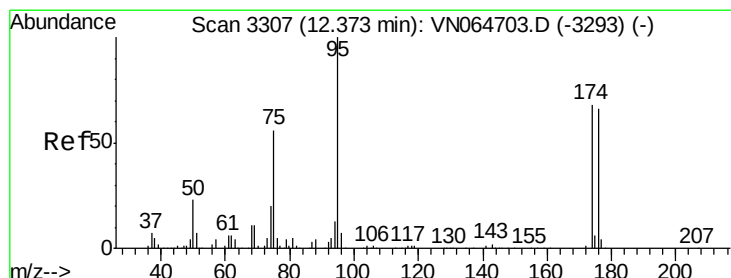
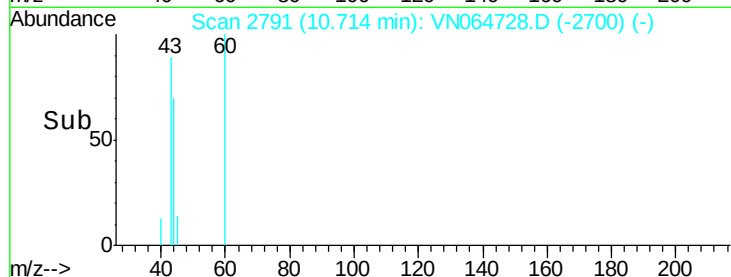
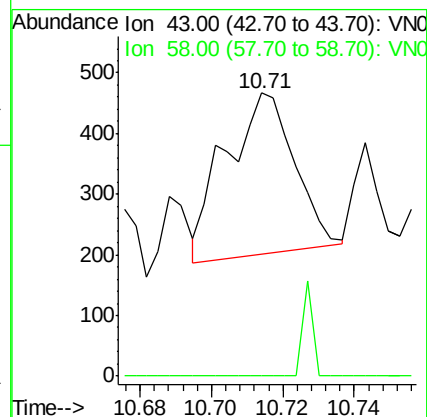
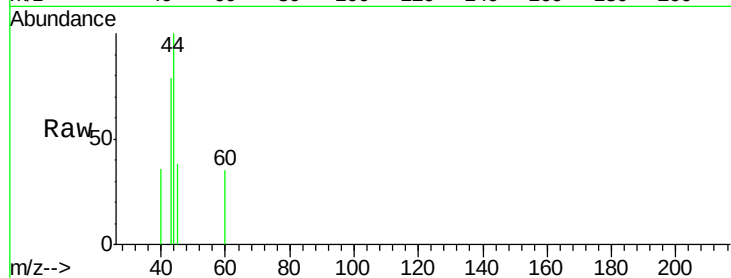
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Tot Ion: 43 Resp: 357

Ion Ratio Lower Upper

43 100

58 8.4 24.4 73.4#



#62

4-Bromofluorobenzene

Concen: 53.361 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

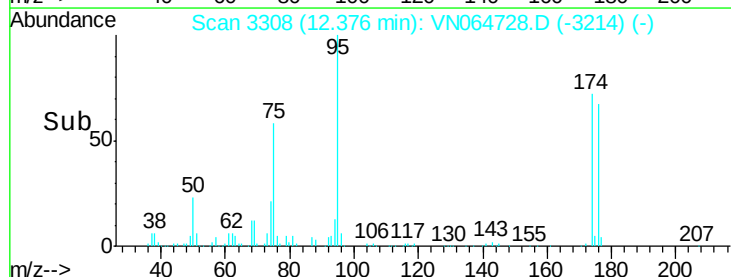
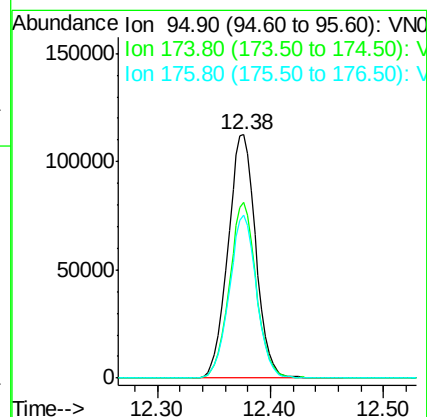
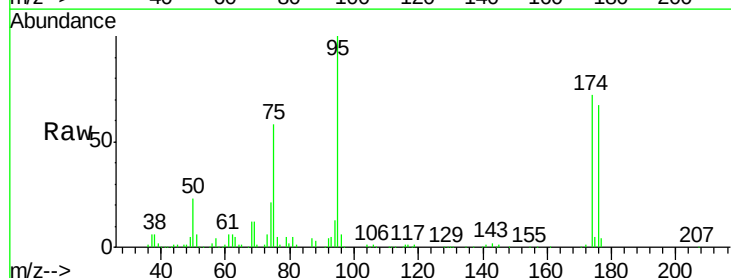
Tgt Ion: 95 Resp: 190937

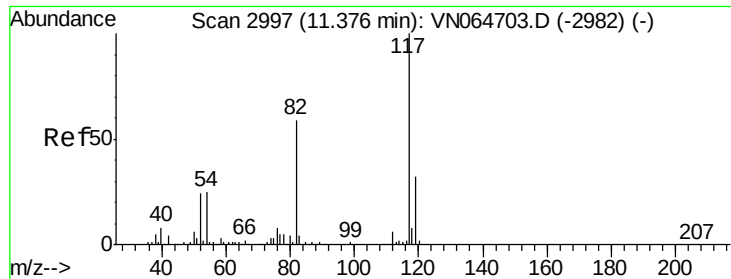
Ion Ratio Lower Upper

95 100

174 69.5 0.0 136.8

176 65.6 0.0 134.2

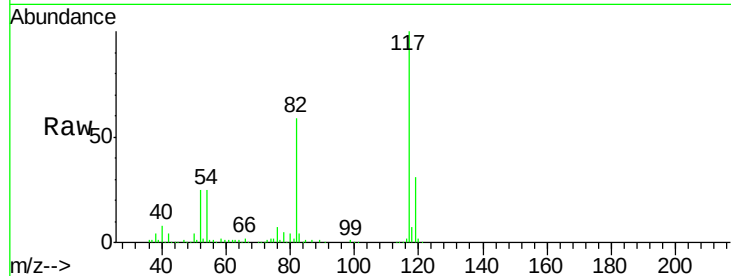




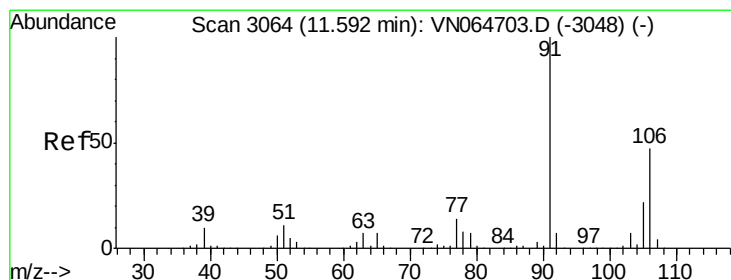
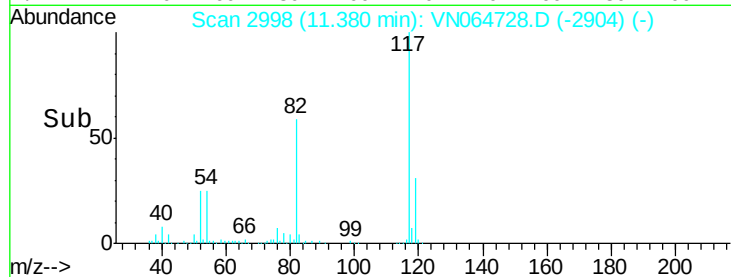
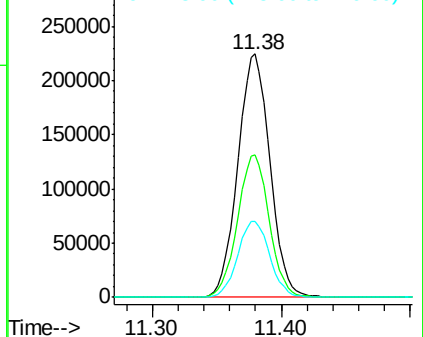
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064728.D
Acq: 19 Nov 2020 13:13

Instrument :
MSVOA_N
ClientSampled :
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Tot Ion:117 Resp: 389310
Ion Ratio Lower Upper
117 100
82 58.7 47.0 70.6
119 31.0 25.4 38.2

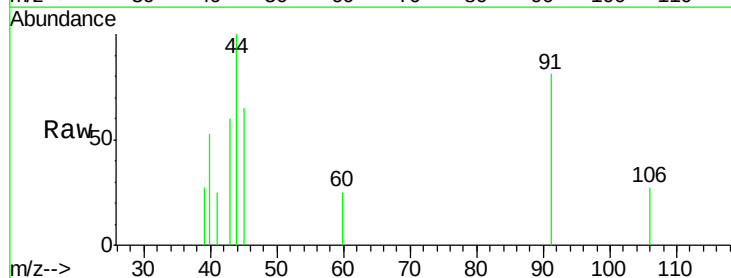


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 118.90 (118.60 to 119.60): V

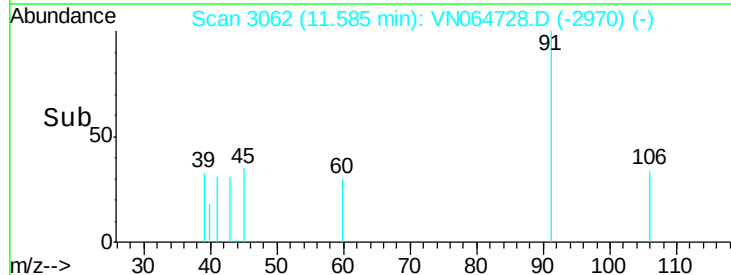
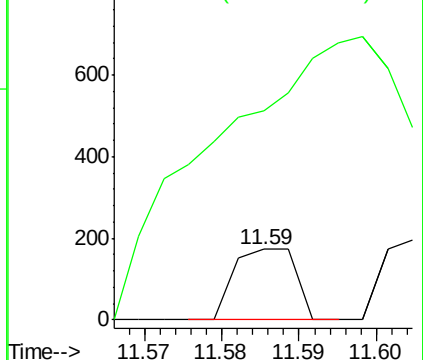


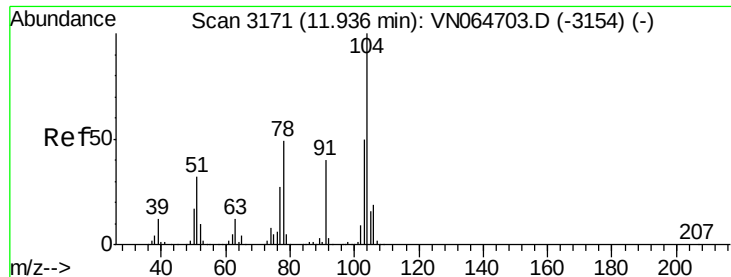
#68
m/p-Xylenes
Concen: 4.077 ug/l
RT: 11.59 min Scan# 3062
Delta R.T. -0.01 min
Lab File: VN064728.D
Acq: 19 Nov 2020 13:13

Tgt Ion:106 Resp: 95
Ion Ratio Lower Upper
106 100
91 0.0 171.9 257.9#



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





#70

Stvrene

Concen: 2.576 ug/l

RT: 11.93 min Scan# 3170

Delta R.T. -0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

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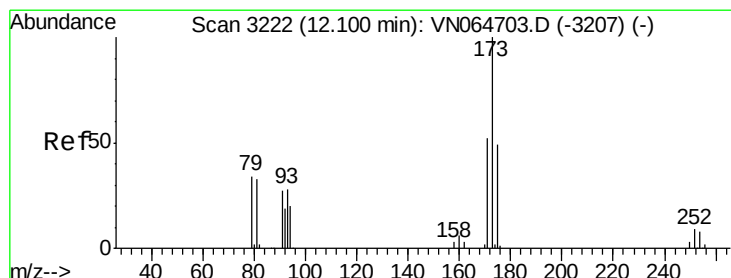
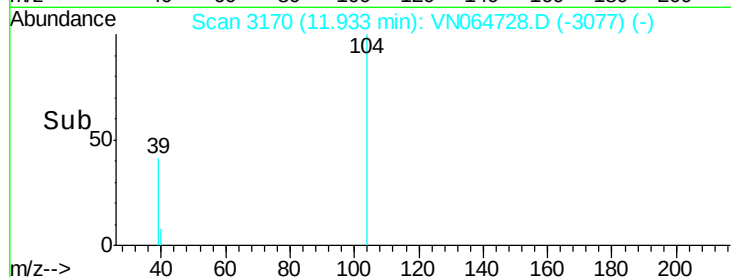
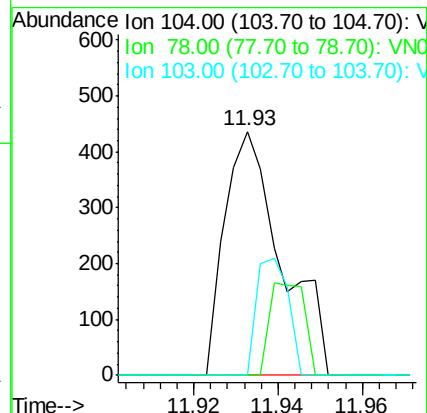
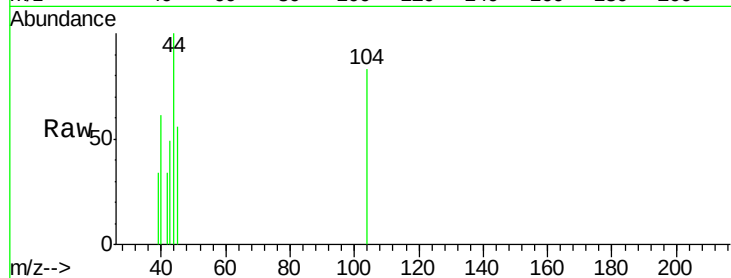
Tot Ion:104 Resp: 411

Ion Ratio Lower Upper

104 100

78 22.6 44.1 66.1#

103 26.8 43.7 65.5#



#71

Bromoform

Concen: 2.725 ug/l

RT: 12.37 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

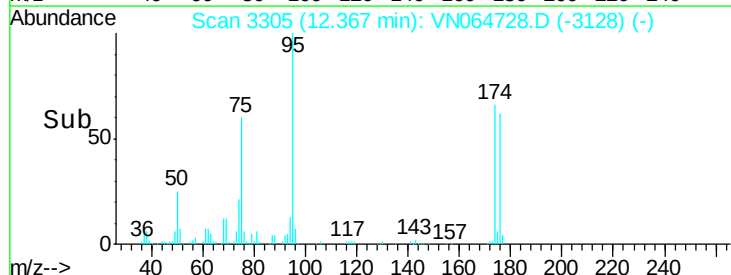
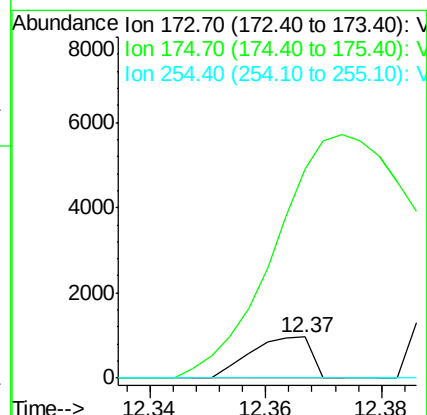
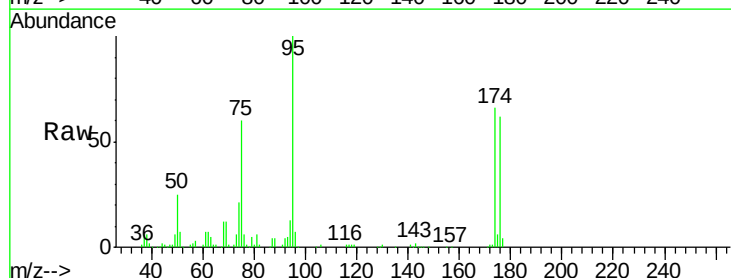
Tgt Ion:173 Resp: 704

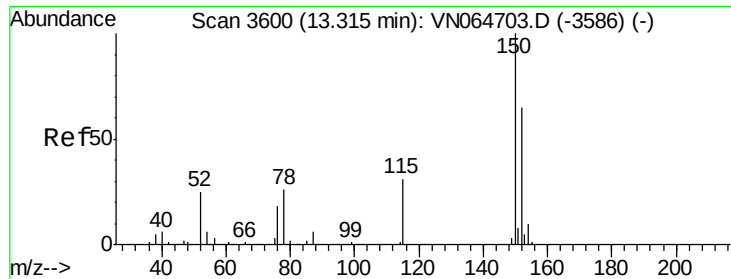
Ion Ratio Lower Upper

173 100

175 1239.2 24.3 72.9#

254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampled :

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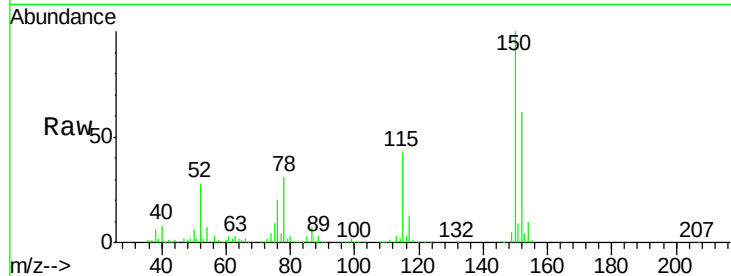
Tot Ion:152 Resp: 156872

Ion Ratio Lower Upper

152 100

115 66.3 32.1 96.3

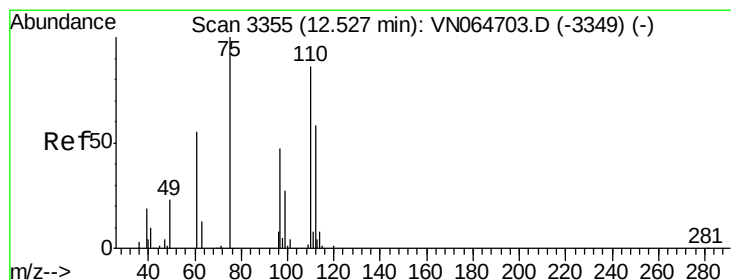
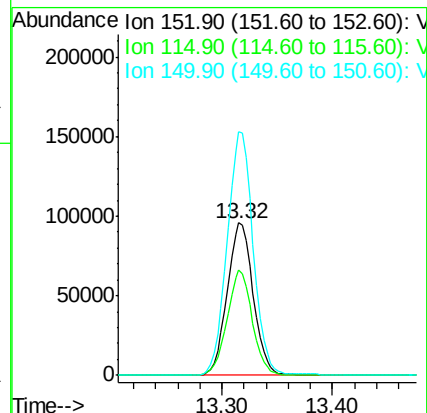
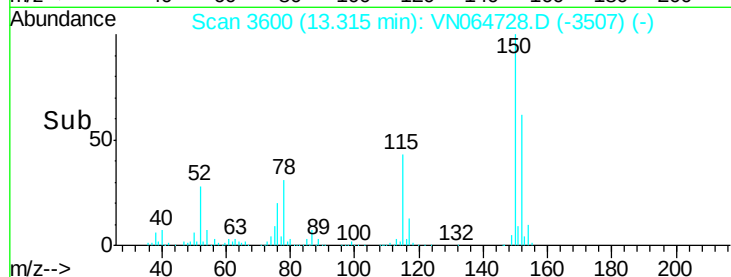
150 159.4 0.0 344.8



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: 32.893 ug/l

RT: 12.37 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN064728.D

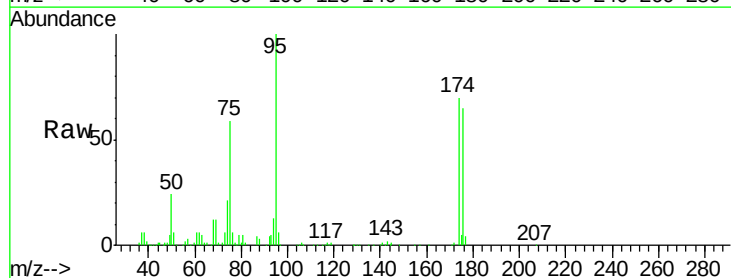
Acq: 19 Nov 2020 13:13

Tgt Ion: 75 Resp: 111179

Ion Ratio Lower Upper

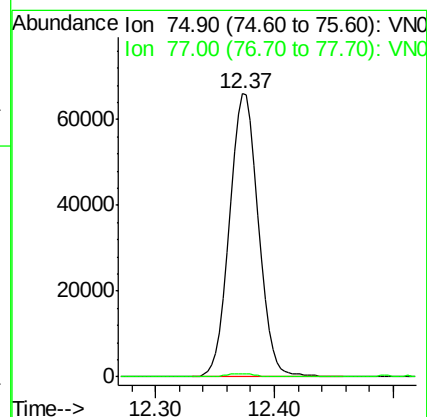
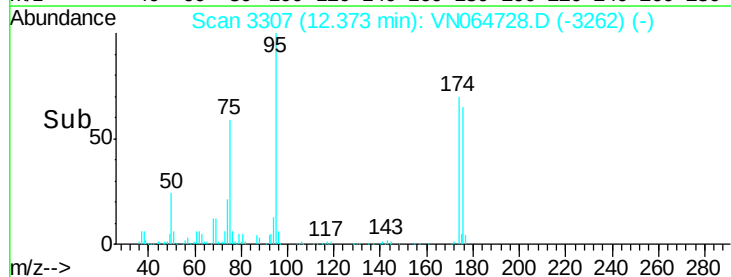
75 100

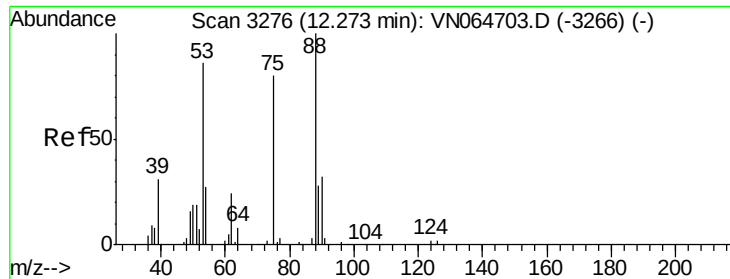
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

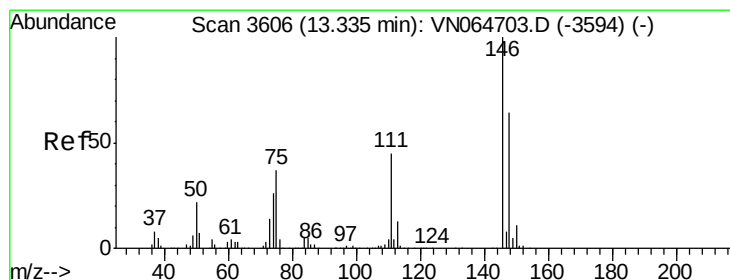
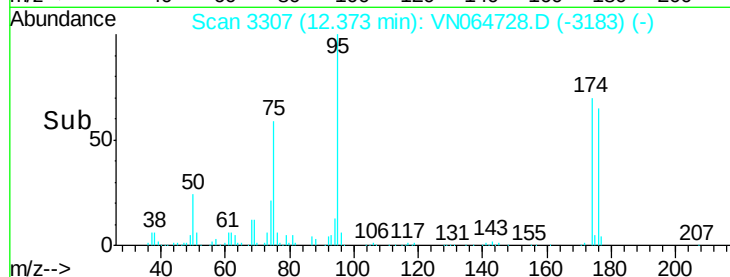
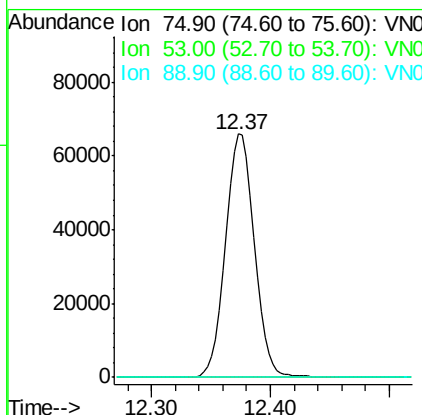
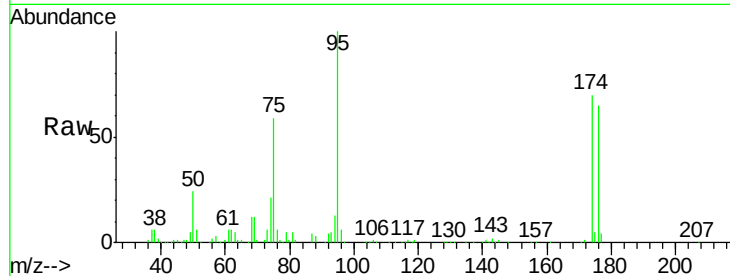




#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.702 ug/l
 RT: 12.37 min Scan# 3307
 Delta R.T. 0.10 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

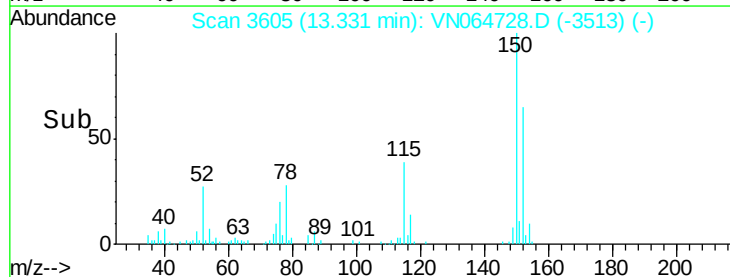
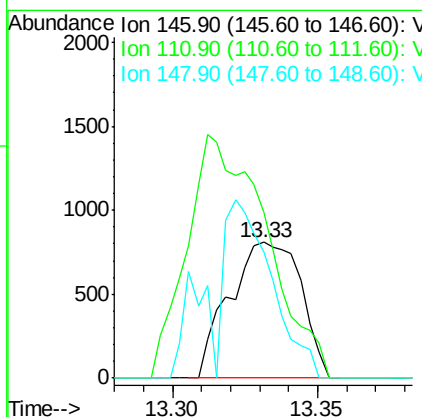
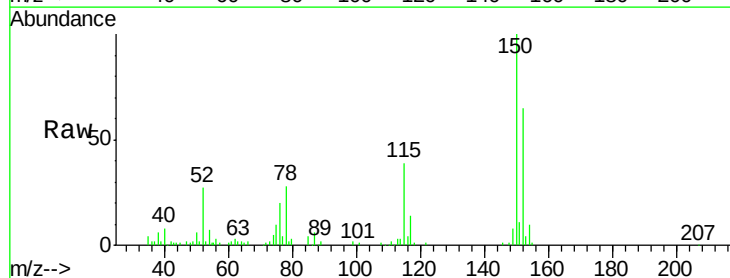
Instrument :
 MSVOA_N
 ClientSampled :
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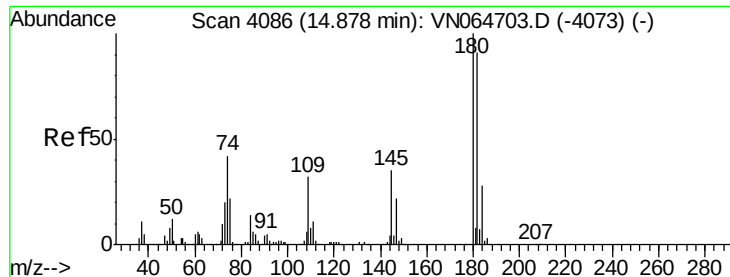
Tot Ion: 75 Resp: 111179
 Ion Ratio Lower Upper
 75 100
 53 0.1 88.8 133.2#
 89 0.0 43.1 64.7#



#88
 1,4-Dichlorobenzene
 Concen: 0.264 ug/l
 RT: 13.33 min Scan# 3605
 Delta R.T. -0.00 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

Tgt Ion: 146 Resp: 1386
 Ion Ratio Lower Upper
 146 100
 111 0.0 22.3 66.8#
 148 85.5 31.6 94.7

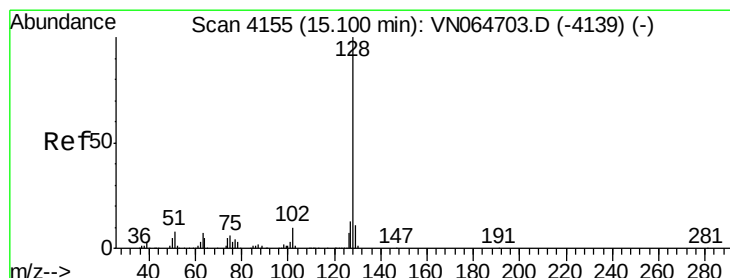
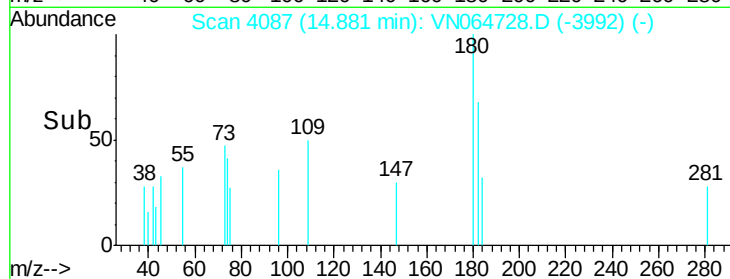
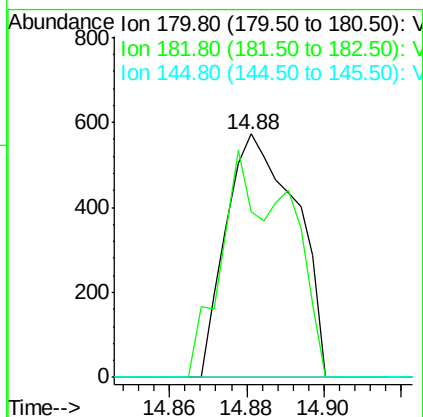
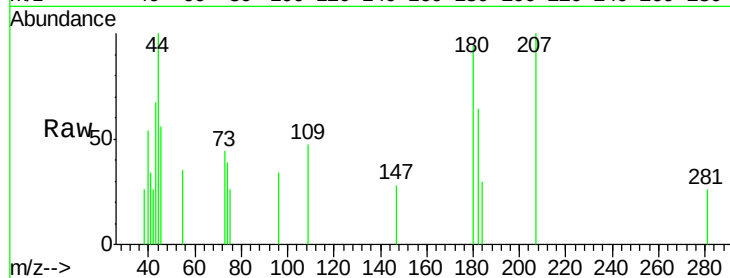




#93
 1,2,4-Trichlorobenzene
 Concen: 1.589 ug/l
 RT: 14.88 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

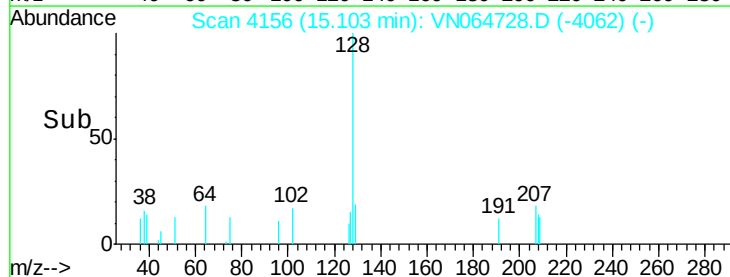
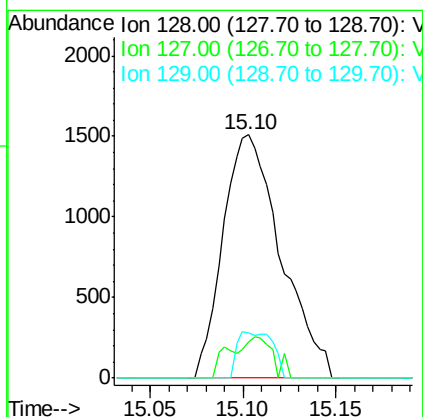
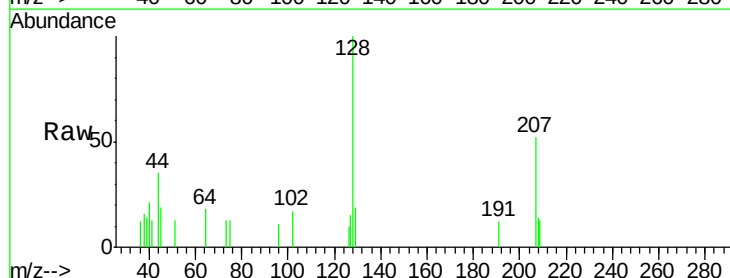
Instrument :
 MSVOA_N
 ClientSampleId :
 FIELD-BLANK

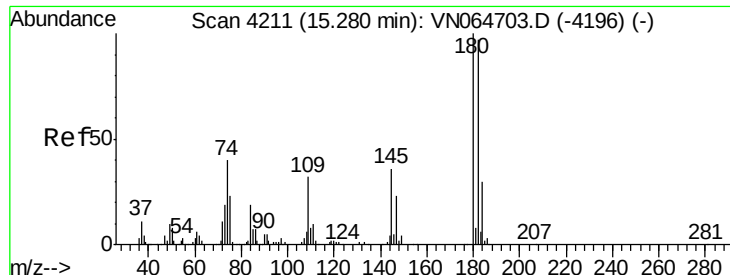
Tot Ion:180 Resp: 719
 Ion Ratio Lower Upper
 180 100
 182 52.6 47.3 141.8
 145 0.0 17.5 52.5#



#95
 Naphthalene
 Concen: 0.371 ug/l
 RT: 15.10 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN064728.D
 Acq: 19 Nov 2020 13:13

Tgt Ion:128 Resp: 3275
 Ion Ratio Lower Upper
 128 100
 127 8.6 10.8 16.2#
 129 11.7 8.9 13.3





#96

1,2,3-Trichlorobenzene

Concen: 1.129 ug/l

RT: 15.29 min Scan# 4215

Delta R.T. 0.01 min

Lab File: VN064728.D

Acq: 19 Nov 2020 13:13

Instrument :

MSVOA_N

ClientSampleId :

FIELD-BLANK

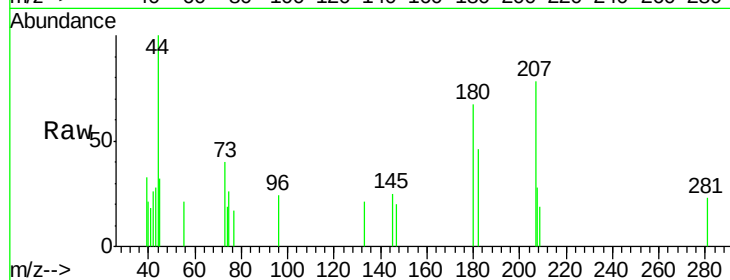
Tot Ion:180 Resp: 984

Ion Ratio Lower Upper

180 100

182 73.9 47.5 142.5

145 30.0 18.1 54.1



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

