

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102920\
 Data File : VN064371.D
 Acq On : 29 Oct 2020 14:10
 Operator : JC/MD
 Sample : L4554-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-2

Quant Time: Oct 30 05:31:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102720W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 27 12:23:17 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.62	168	235194	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	411811	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	409830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	183499	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	7.99	65	182114	48.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.36%	
35) Dibromofluoromethane	7.55	113	136892	49.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.70%	
50) Toluene-d8	10.06	98	509153	50.12	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.24%	
62) 4-Bromofluorobenzene	12.38	95	222377	56.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.30%	

Target Compounds

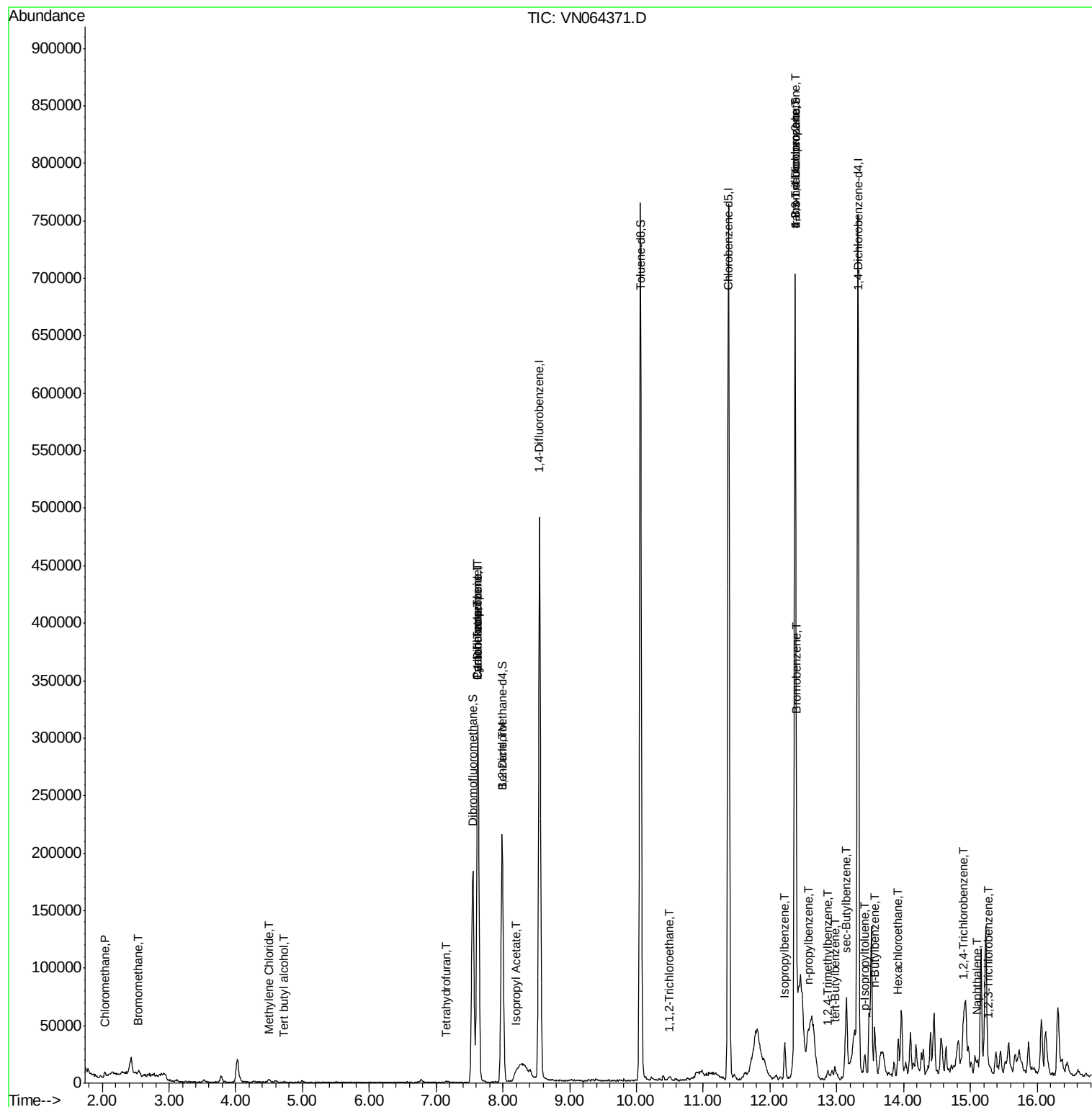
						Qvalue
3) Chloromethane	2.04	50	3779	1.293	ug/l	90
5) Bromomethane	2.54	94	613	0.336	ug/l #	4
11) Tert butyl alcohol	4.72	59	259	0.472	ug/l #	70
16) Acetone	3.78	43	8962	Below Cal		98
20) Methylene Chloride	4.50	84	887	0.331	ug/l #	84
29) Tetrahydrofuran	7.16	42	545	0.442	ug/l #	41
31) Cyclohexane	7.63	56	5617	1.281	ug/l #	19
36) 1,1-Dichloropropene	7.62	75	20639	4.966	ug/l #	46
38) Carbon Tetrachloride	7.63	117	25450	5.282	ug/l #	19
40) Benzene	8.00	78	25876	2.237	ug/l	100
43) Isopropyl Acetate	8.19	43	7115	0.991	ug/l #	57
55) 1,1,2-Trichloroethane	10.50	97	1124	0.390	ug/l #	15
73) Isopropylbenzene	12.22	105	19725	1.435	ug/l	96
76) 1,2,3-Trichloropropane	12.38	75	127648	29.048	ug/l #	100
77) Bromobenzene	12.40	156	44083	13.099	ug/l #	1
78) n-propylbenzene	12.57	91	10661	0.685	ug/l	95
81) trans-1,4-Dichloro-2-buten	12.38	75	127648	83.675	ug/l #	9
83) tert-Butylbenzene	12.97	119	4777	0.501	ug/l	95
84) 1,2,4-Trimethylbenzene	12.86	105	3694	0.318	ug/l	81
85) sec-Butylbenzene	13.15	105	34548	2.798	ug/l	82
86) p-Isopropyltoluene	13.42	119	8330	0.749	ug/l	92
89) n-Butylbenzene	13.58	91	9807	1.001	ug/l #	67
90) Hexachloroethane	13.92	117	14531	6.955	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.88	180	64	2.036	ug/l #	1
95) Naphthalene	15.10	128	1370	2.518	ug/l #	73
96) 1,2,3-Trichlorobenzene	15.28	180	197	2.240	ug/l #	27

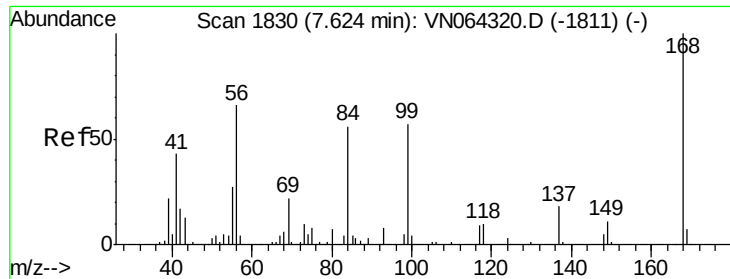
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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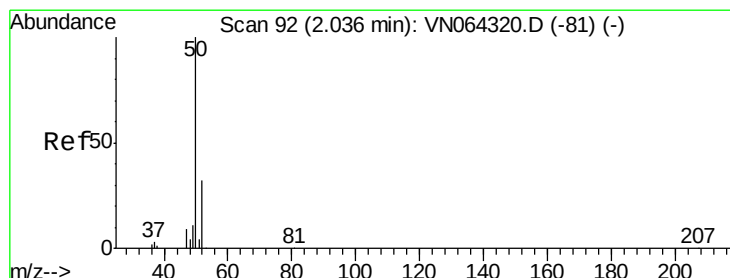
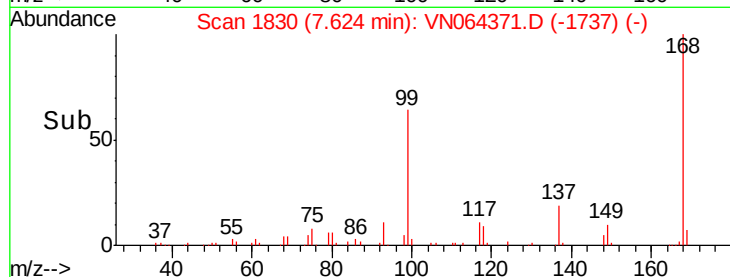
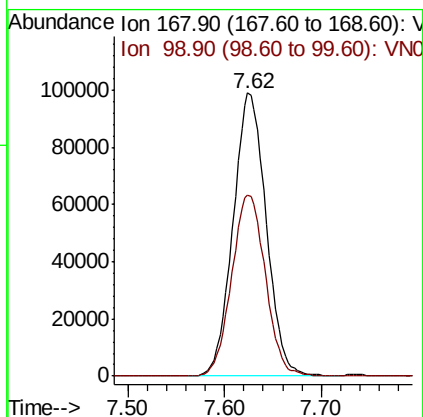
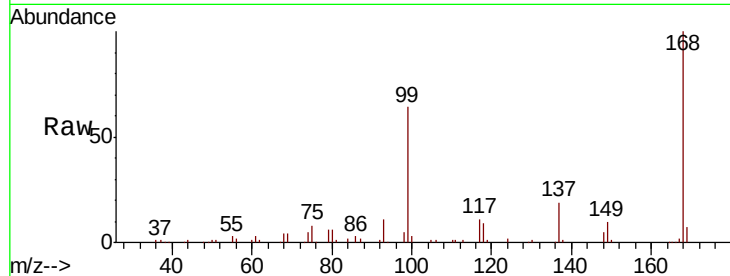




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.62 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

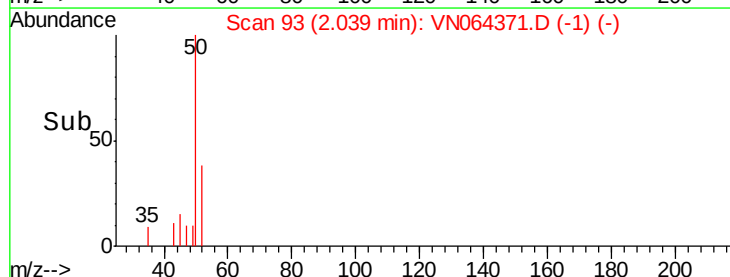
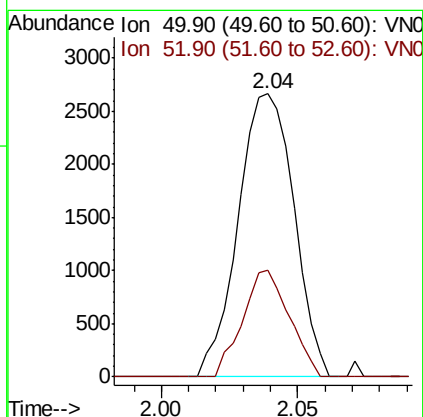
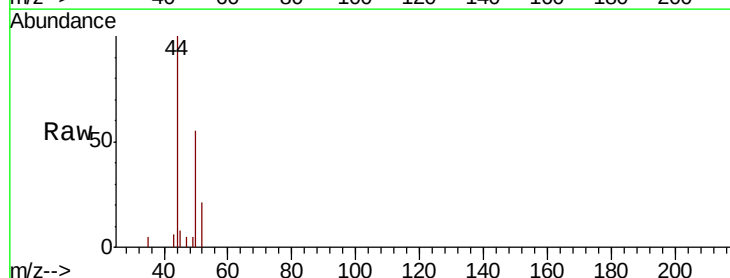
Instrument :
MSVOA_N
ClientSampled :
MW-2

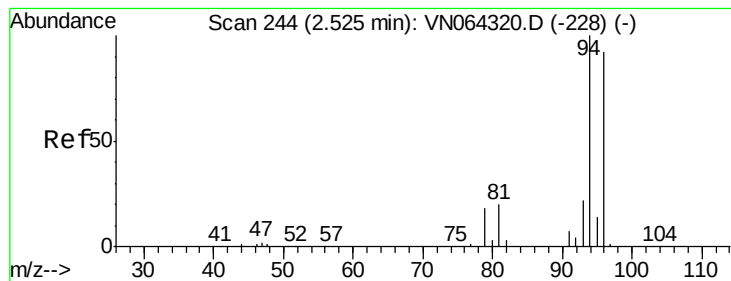
Tot Ion:168 Resp: 235194
Ion Ratio Lower Upper
168 100
99 64.1 52.7 79.1



#3
Chloromethane
Concen: 1.293 ug/l
RT: 2.04 min Scan# 93
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Tgt Ion: 50 Resp: 3779
Ion Ratio Lower Upper
50 100
52 37.6 25.6 38.4





#5

Bromomethane

Concen: 0.336 ug/l

RT: 2.54 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN064371.D

Acq: 29 Oct 2020 14:10

Instrument :

MSVOA_N

ClientSampled :

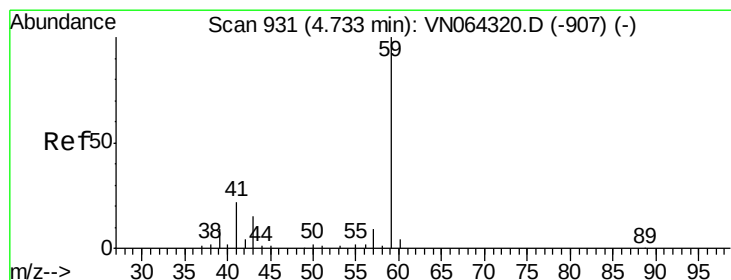
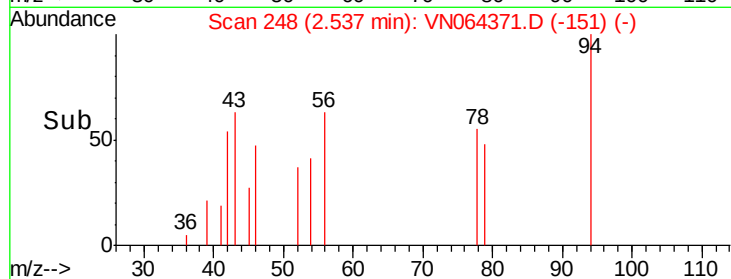
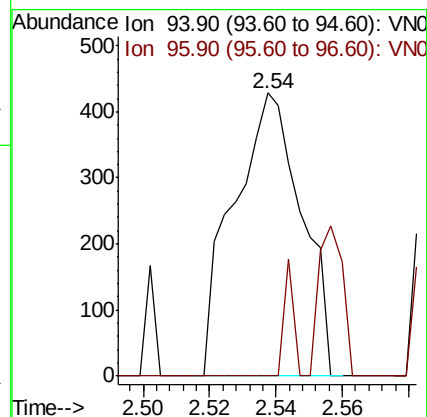
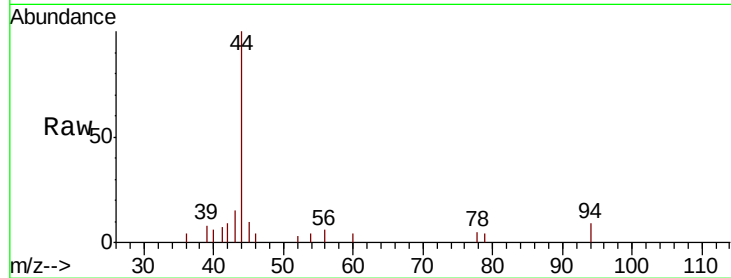
MW-2

Tot Ion: 94 Resp: 613

Ion Ratio Lower Upper

94 100

96 0.0 73.6 110.4#



#11

Tert butyl alcohol

Concen: 0.472 ug/l

RT: 4.72 min Scan# 928

Delta R.T. -0.01 min

Lab File: VN064371.D

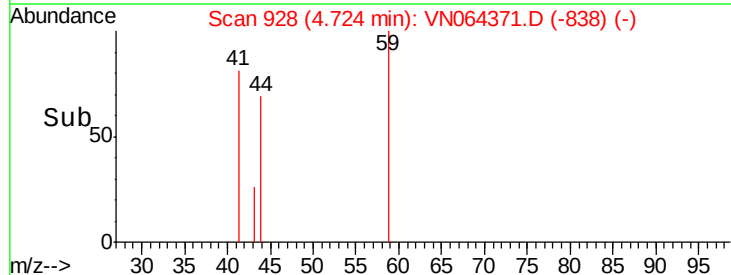
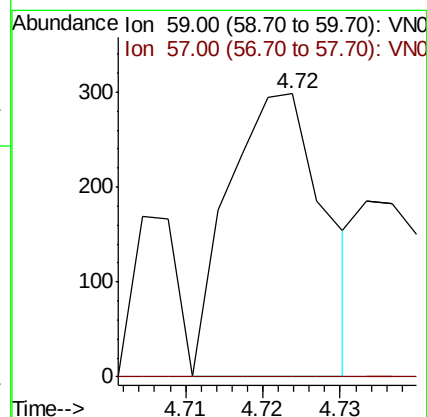
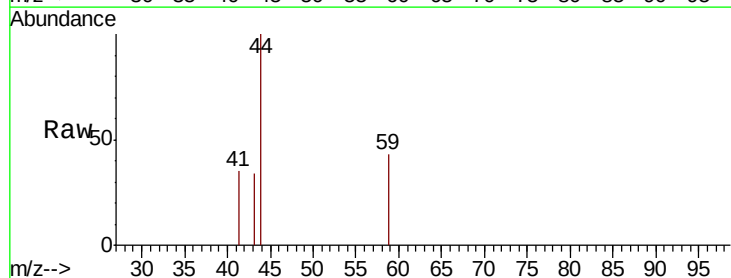
Acq: 29 Oct 2020 14:10

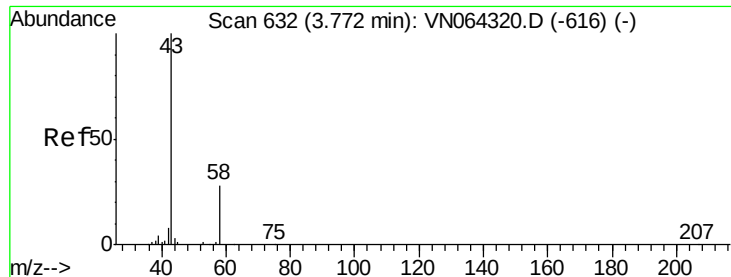
Tgt Ion: 59 Resp: 259

Ion Ratio Lower Upper

59 100

57 0.0 9.4 14.0#





#16

Acetone

Concen: Below Cal

RT: 3.78 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN064371.D

Acq: 29 Oct 2020 14:10

Instrument :

MSVOA_N

ClientSampleId :

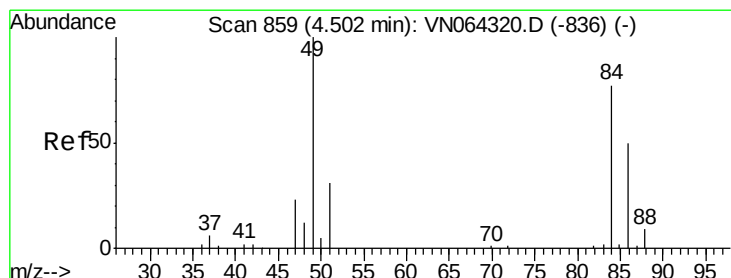
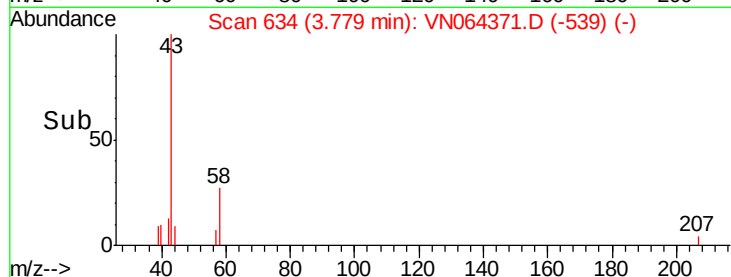
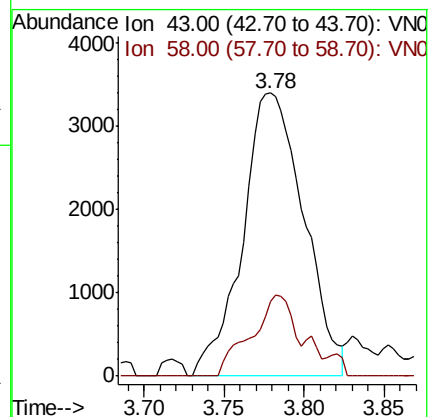
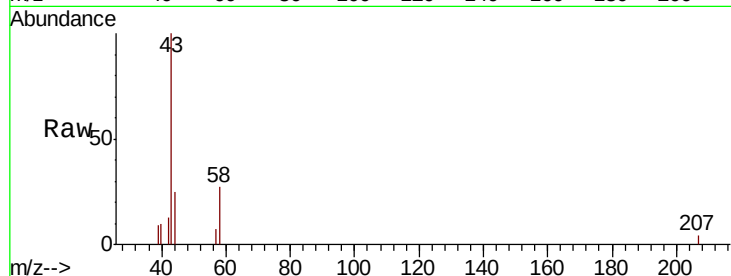
MW-2

Tot Ion: 43 Resp: 8962

Ion Ratio Lower Upper

43 100

58 26.6 22.1 33.1



#20

Methylene Chloride

Concen: 0.331 ug/l

RT: 4.50 min Scan# 859

Delta R.T. 0.00 min

Lab File: VN064371.D

Acq: 29 Oct 2020 14:10

Tgt Ion: 84 Resp: 887

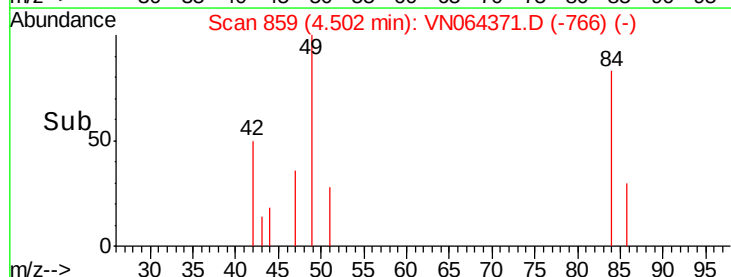
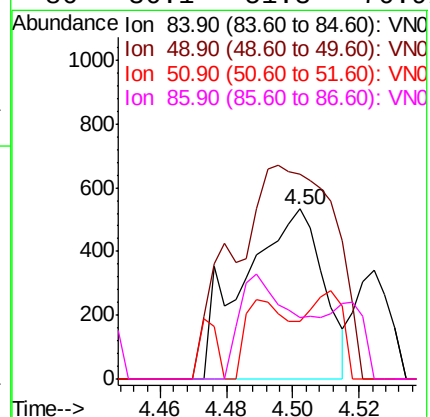
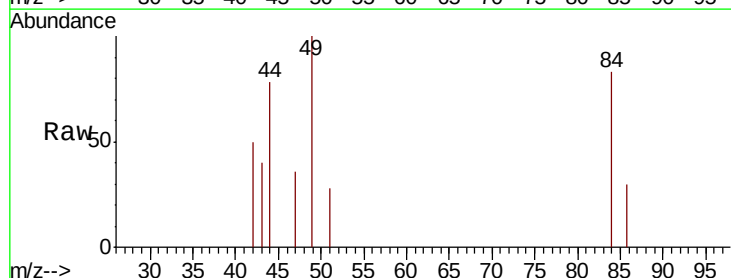
Ion Ratio Lower Upper

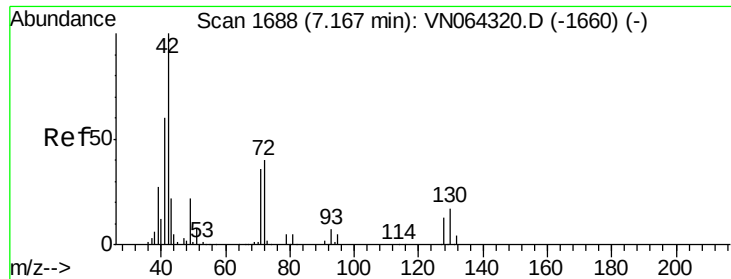
84 100

49 120.6 103.6 155.4

51 33.7 31.8 47.8

86 36.1 51.3 76.9#

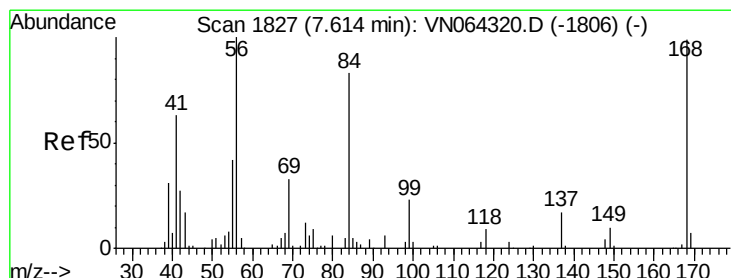
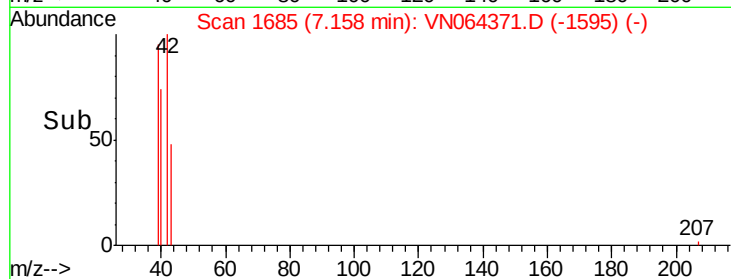
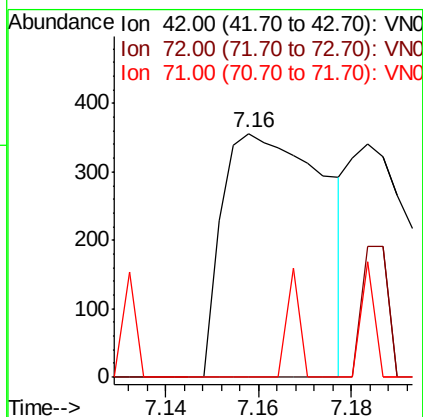
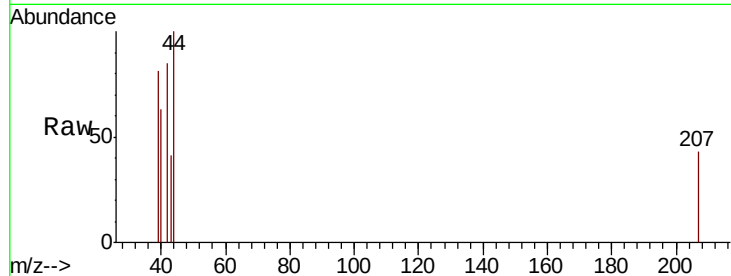




#29
Tetrahydrofuran
Concen: 0.442 ug/l
RT: 7.16 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

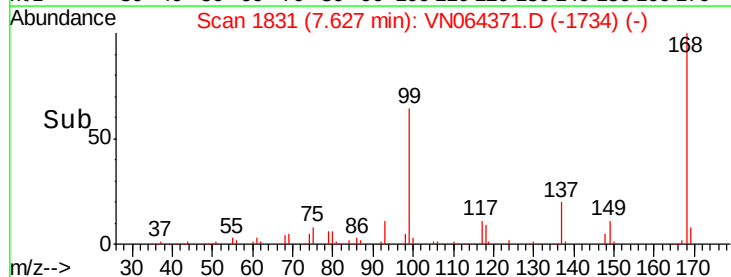
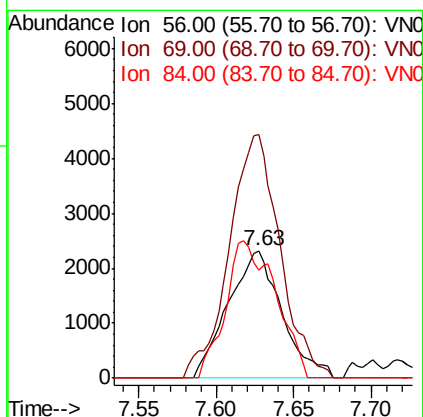
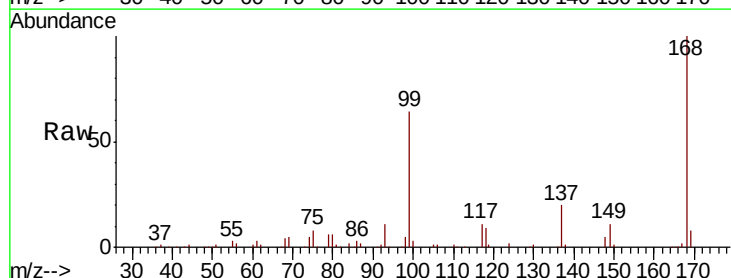
Instrument :
MSVOA_N
ClientSampled :
MW-2

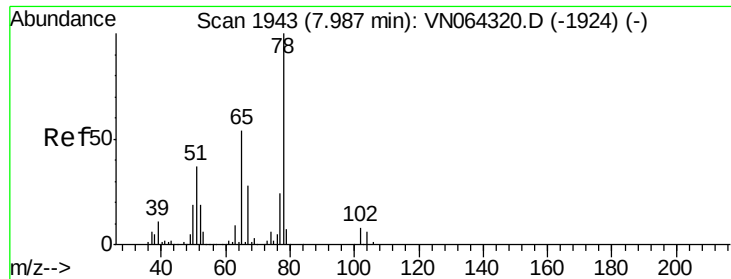
Tot Ion: 42 Resp: 545
Ion Ratio Lower Upper
42 100
72 0.0 31.6 47.4#
71 5.7 29.4 44.0#



#31
Cyclohexane
Concen: 1.281 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Tgt Ion: 56 Resp: 5617
Ion Ratio Lower Upper
56 100
69 191.2 25.8 38.8#
84 84.5 66.3 99.5

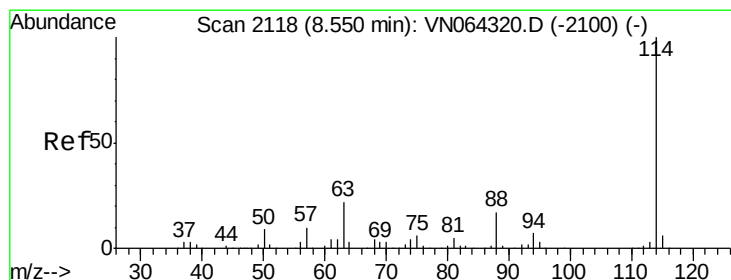
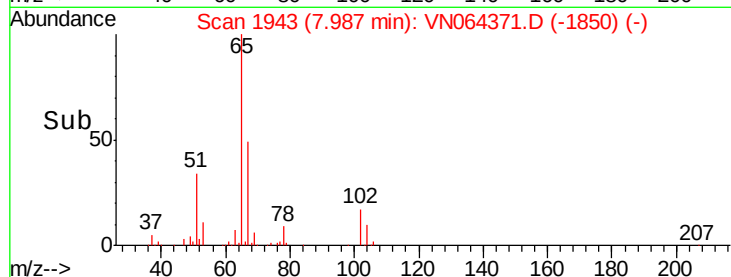
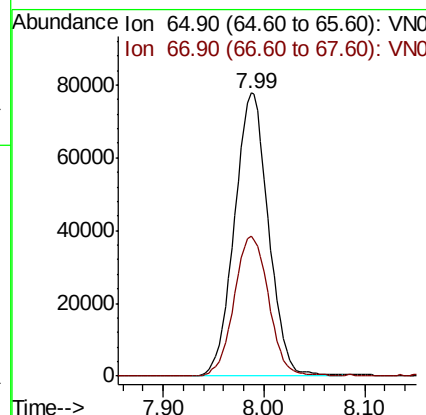
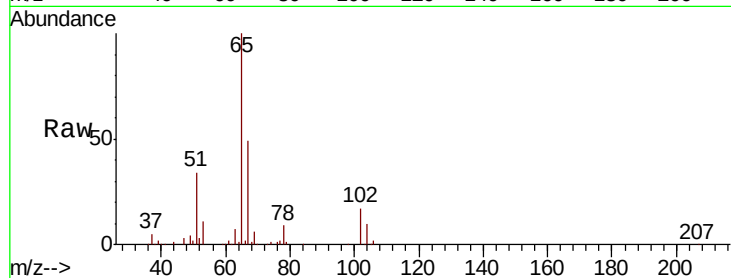




#33
 1,2-Dichloroethane-d4
 Concen: 48.184 ug/l
 RT: 7.99 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

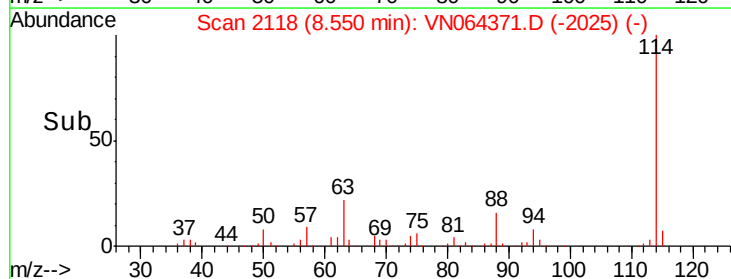
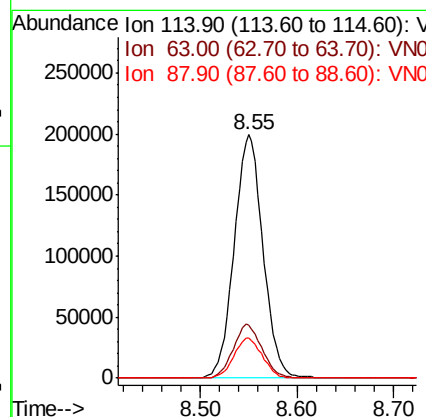
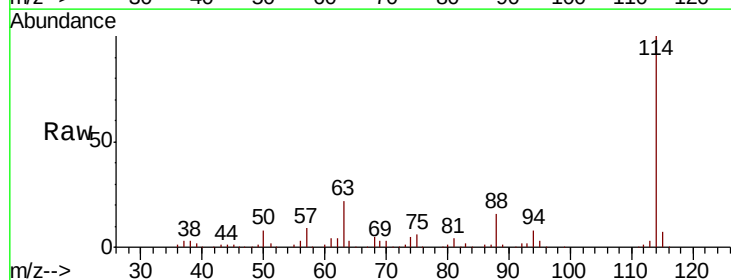
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

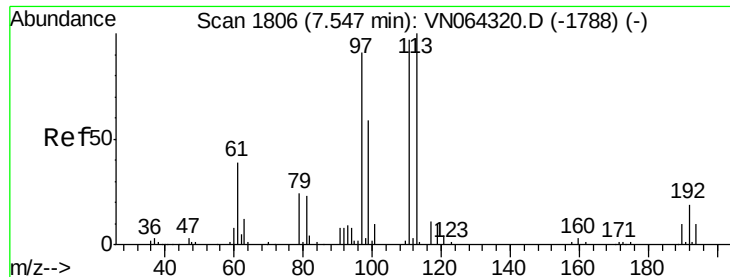
Tot Ion: 65 Resp: 182114
 Ion Ratio Lower Upper
 65 100
 67 50.0 0.0 99.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2118
 Delta R.T. 0.00 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Tgt Ion: 114 Resp: 411811
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 44.6
 88 16.4 0.0 33.4

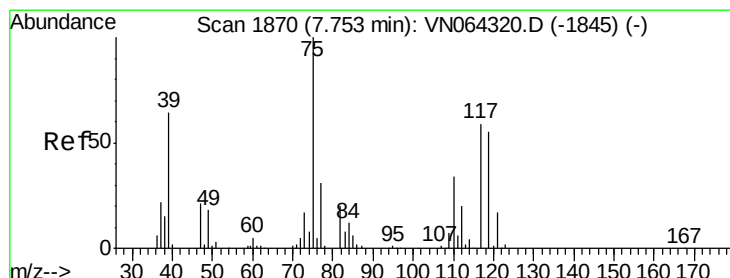
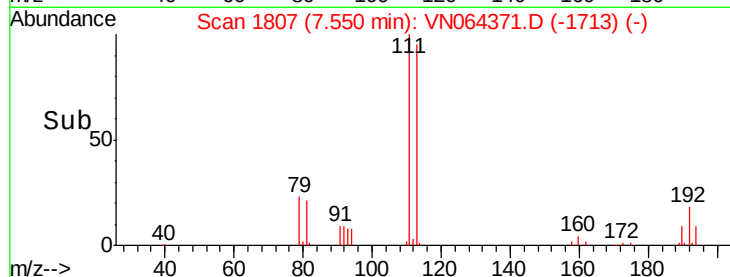
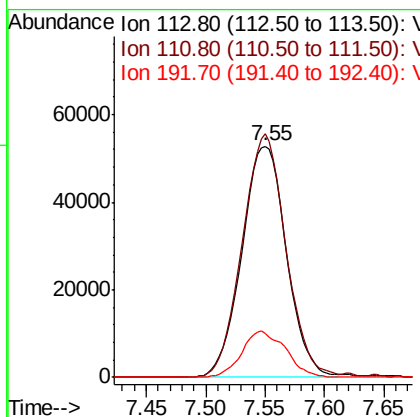
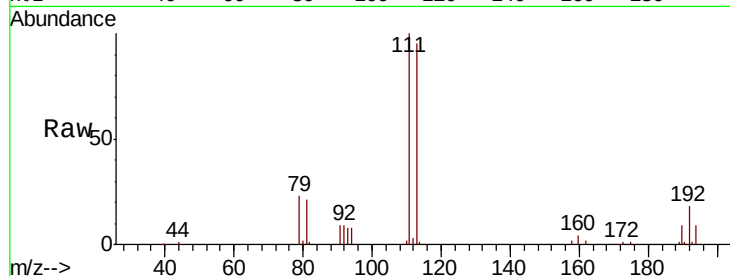




#35
 Dibromofluoromethane
 Concen: 49.847 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

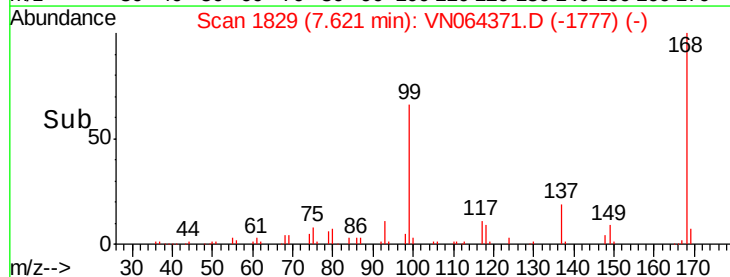
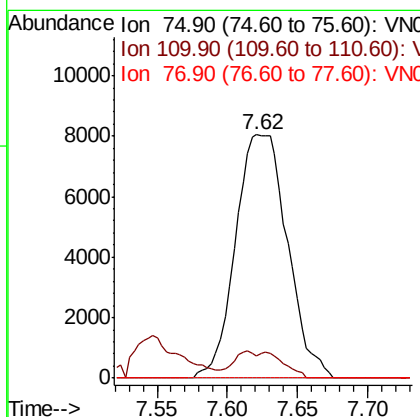
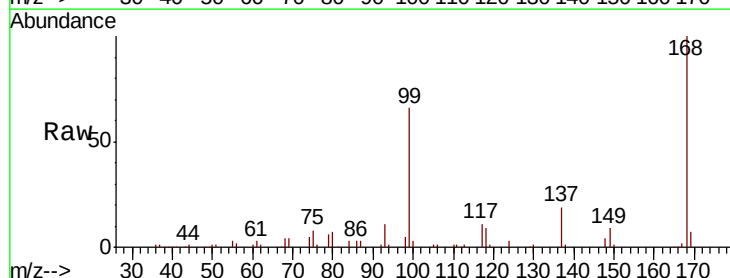
Instrument :
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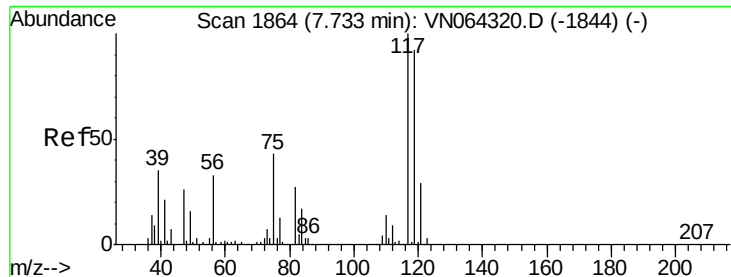
Tot Ion:113 Resp: 136892
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.5 122.3
 192 19.7 15.0 22.4



#36
 1,1-Dichloropropene
 Concen: 4.966 ug/l
 RT: 7.62 min Scan# 1829
 Delta R.T. -0.13 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Tgt Ion: 75 Resp: 20639
 Ion Ratio Lower Upper
 75 100
 110 3.1 16.8 50.3#
 77 0.0 24.2 36.4#

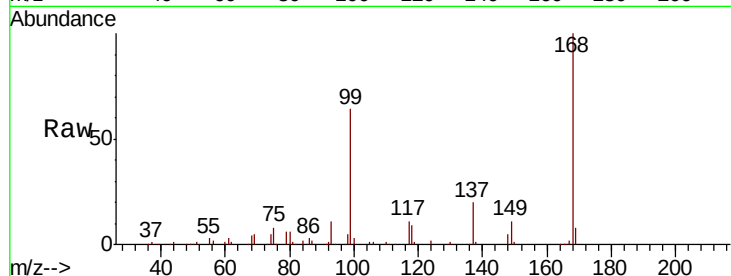




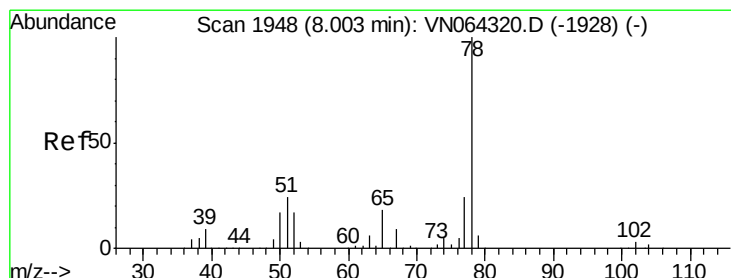
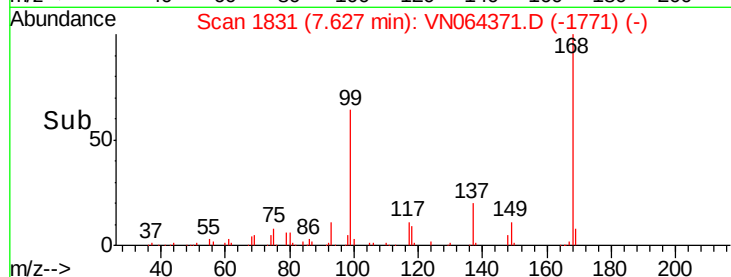
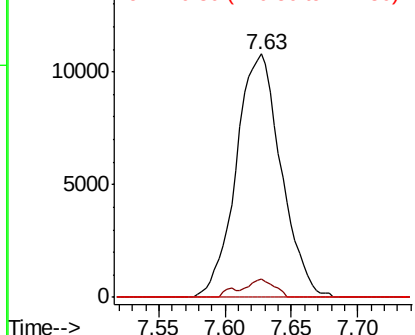
#38
Carbon Tetrachloride
Concen: 5.282 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:117 Resp: 25450
Ion Ratio Lower Upper
117 100
119 7.3 73.7 110.5#
121 0.0 22.8 34.2#

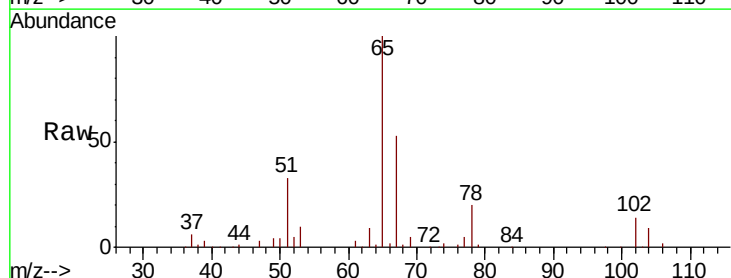


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

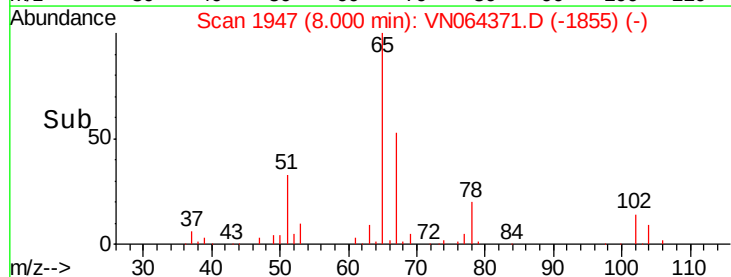
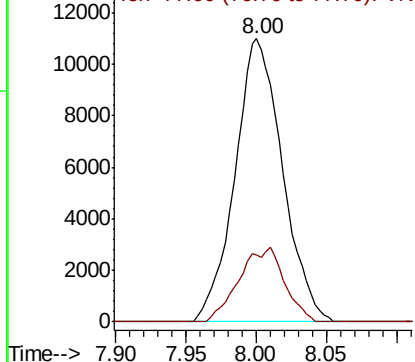


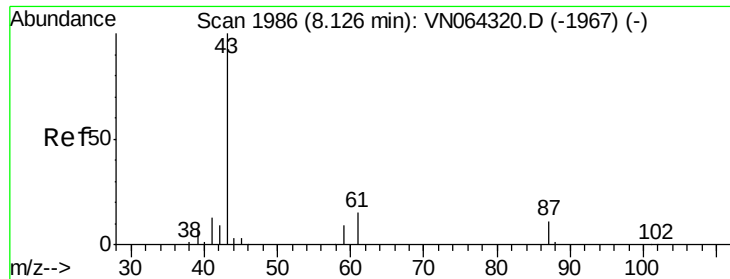
#40
Benzene
Concen: 2.237 ug/l
RT: 8.00 min Scan# 1947
Delta R.T. -0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Tgt Ion: 78 Resp: 25876
Ion Ratio Lower Upper
78 100
77 23.7 18.8 28.2



Abundance Ion 78.00 (77.70 to 78.70): VN0
Ion 77.00 (76.70 to 77.70): VN0





#43

Isopropyl Acetate

Concen: 0.991 ug/l

RT: 8.19 min Scan# 2006

Delta R.T. 0.06 min

Lab File: VN064371.D

Acq: 29 Oct 2020 14:10

Instrument :

MSVOA_N

ClientSampleId :

MW-2

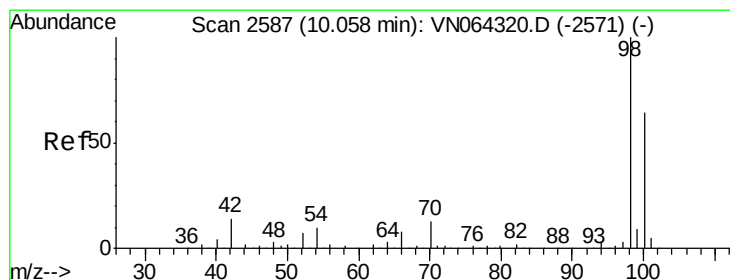
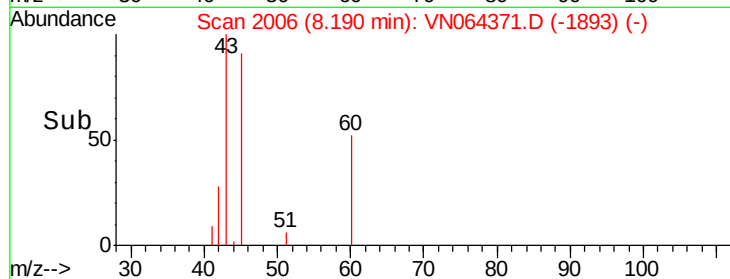
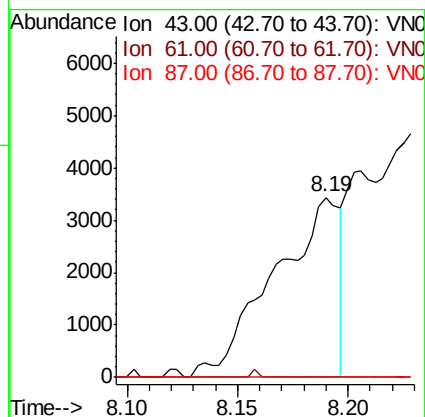
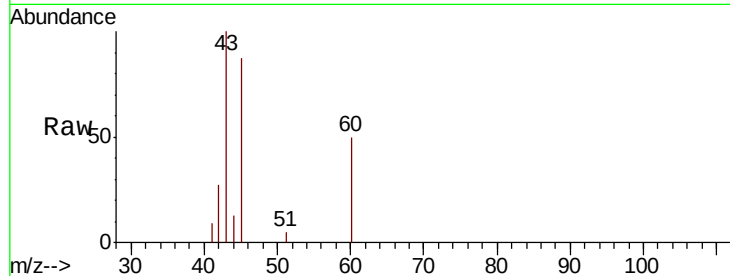
Tot Ion: 43 Resp: 7115

Ion Ratio Lower Upper

43 100

61 0.0 19.1 28.7#

87 0.0 9.3 13.9#



#50

Toluene-d8

Concen: 50.123 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN064371.D

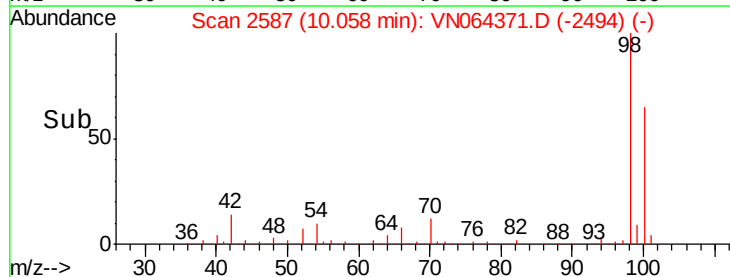
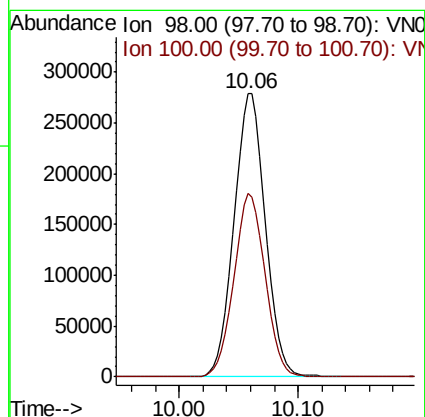
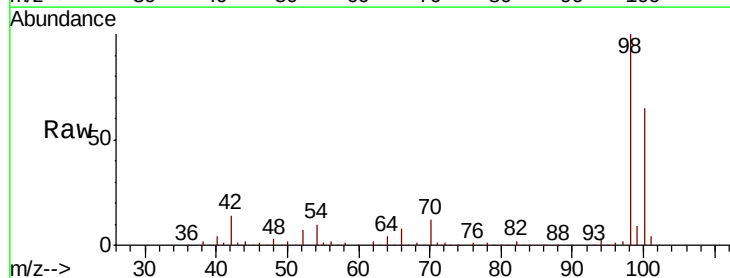
Acq: 29 Oct 2020 14:10

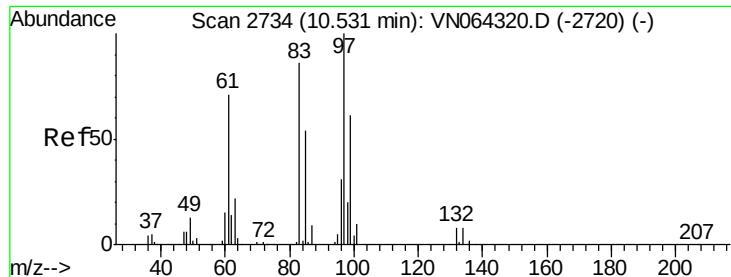
Tgt Ion: 98 Resp: 509153

Ion Ratio Lower Upper

98 100

100 64.4 50.9 76.3

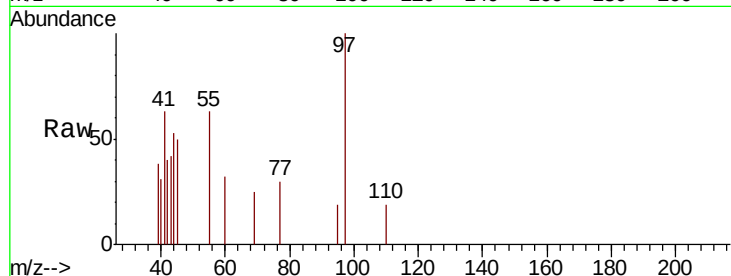




#55
 1,1,2-Trichloroethane
 Concen: 0.390 ug/l
 RT: 10.50 min Scan# 2724
 Delta R.T. -0.03 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

Tot Ion	97	Resp	1124
Ion	Ratio	Lower	Upper
97	100		
83	0.0	68.9	103.3#
85	0.0	43.6	65.4#
99	0.0	49.2	73.8#



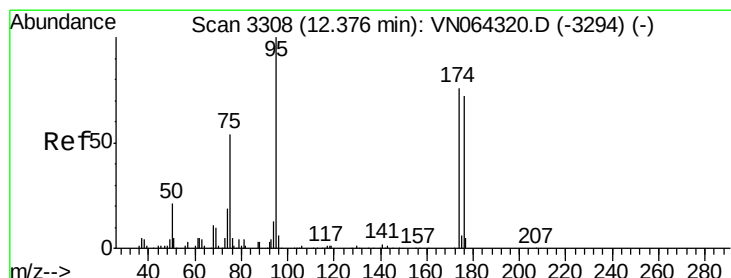
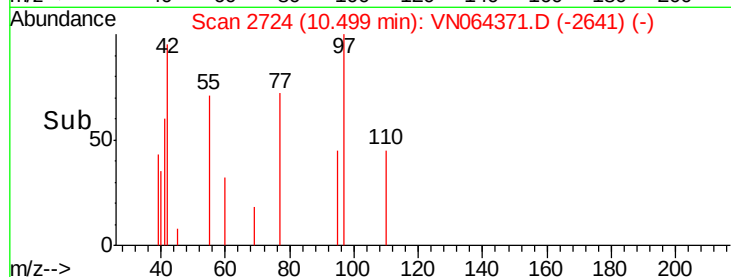
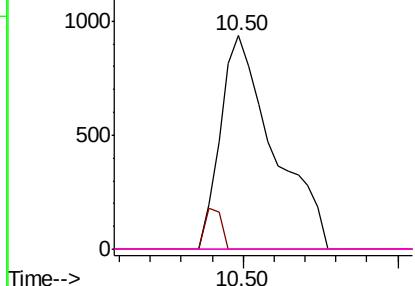
Abundance

Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

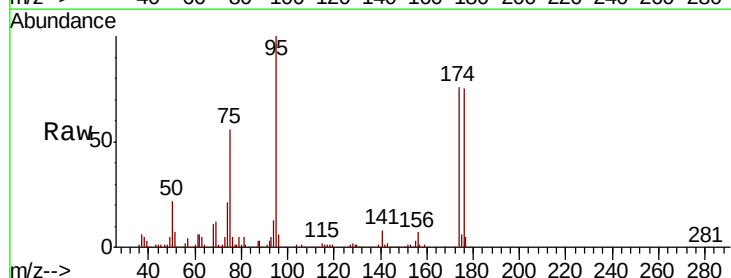
Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0



#62
 4-Bromofluorobenzene
 Concen: 56.148 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.00 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Tgt Ion	95	Resp	222377
Ion	Ratio	Lower	Upper
95	100		
174	74.9	0.0	147.4
176	73.2	0.0	143.6

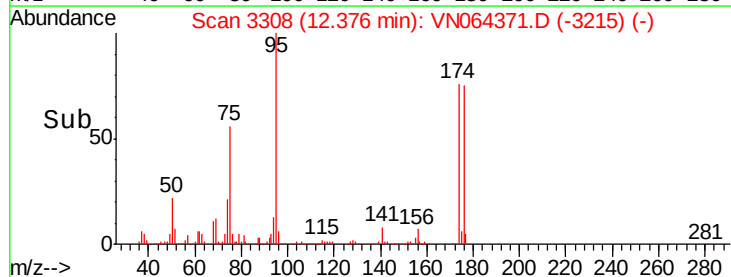
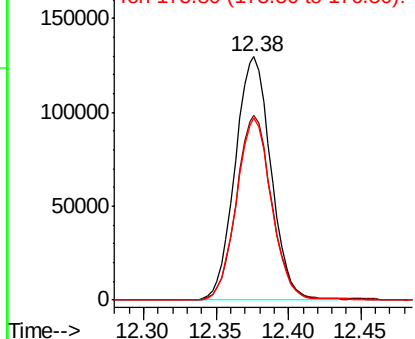


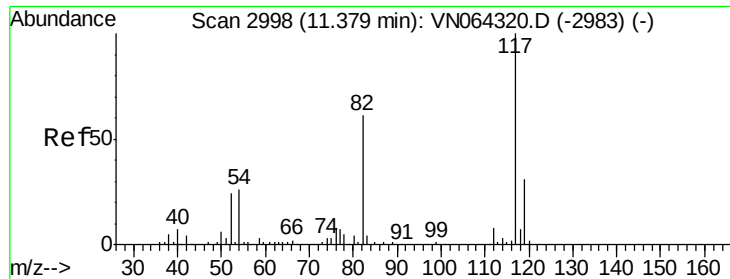
Abundance

Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

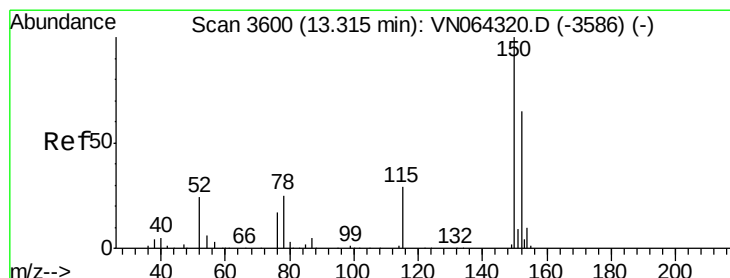
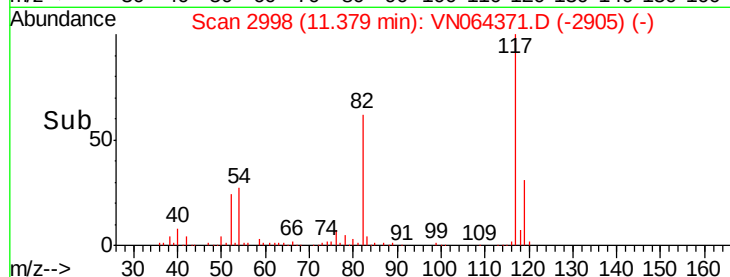
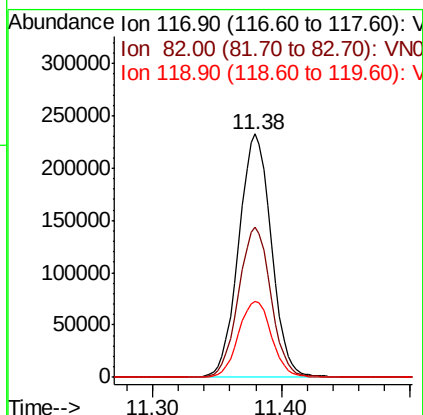
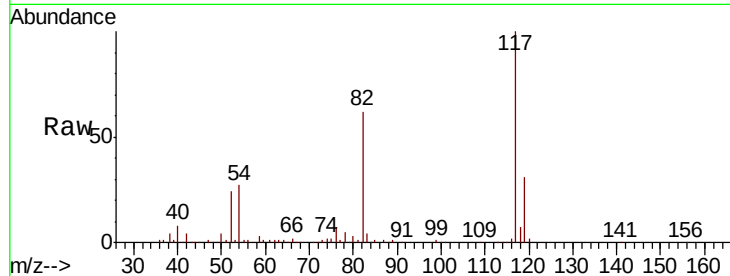




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

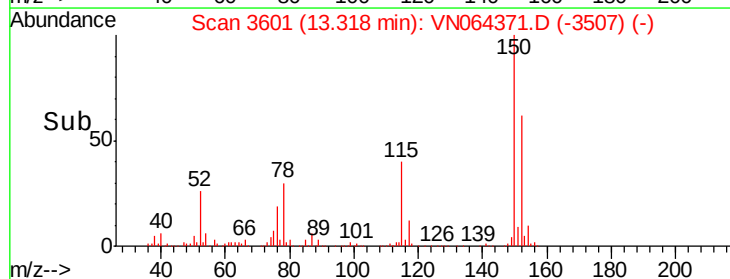
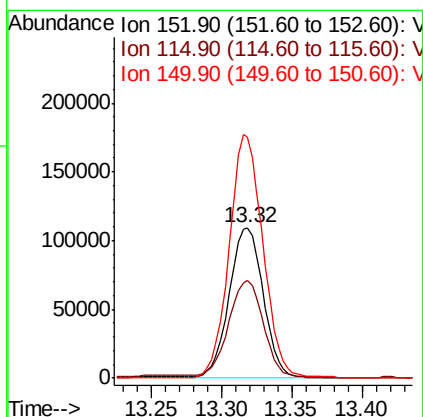
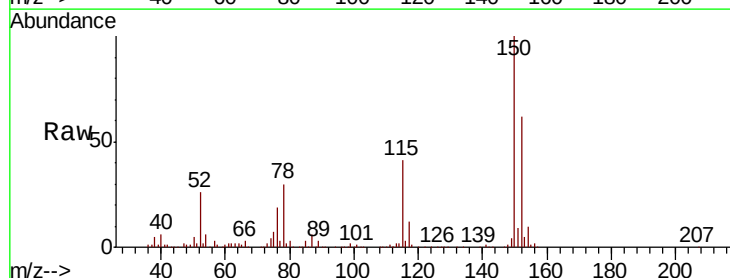
Instrument :
MSVOA_N
ClientSampleId :
MW-2

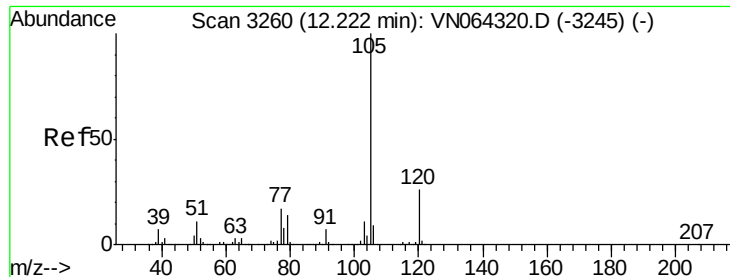
Tot Ion:117 Resp: 409830
Ion Ratio Lower Upper
117 100
82 61.6 48.8 73.2
119 31.4 25.1 37.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Tgt Ion:152 Resp: 183499
Ion Ratio Lower Upper
152 100
115 66.4 31.5 94.5
150 162.1 0.0 346.2





#73

Isopropylbenzene

Concen: 1.435 ug/l

RT: 12.22 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN064371.D

Acq: 29 Oct 2020 14:10

Instrument :

MSVOA_N

ClientSampled :

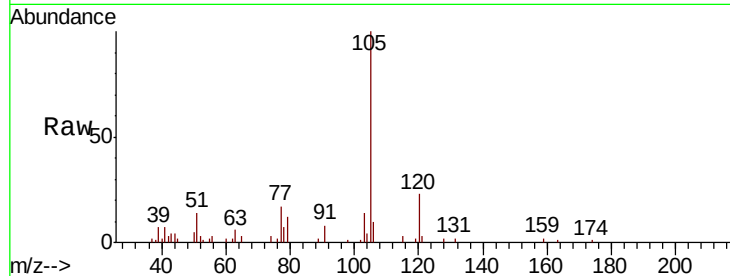
MW-2

Tot Ion:105 Resp: 19725

Ion Ratio Lower Upper

105 100

120 24.2 13.2 39.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

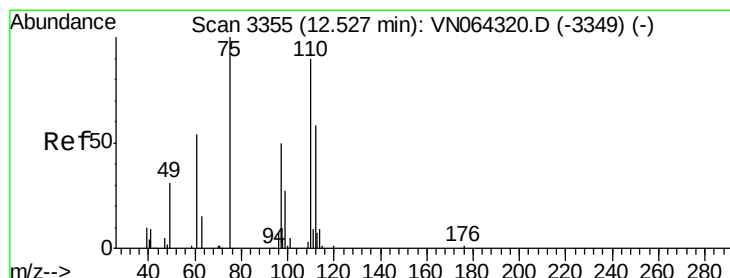
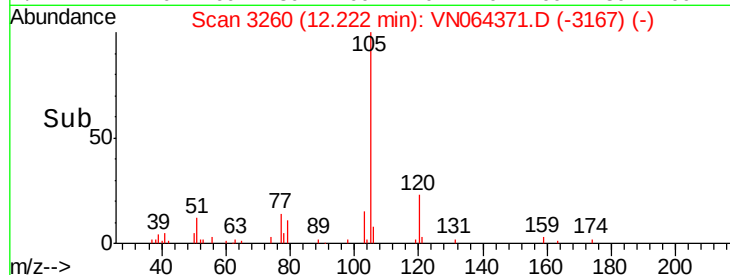
12.22

10000

5000

0

Time--> 12.15 12.20 12.25



#76

1,2,3-Trichloropropane

Concen: 29.048 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064371.D

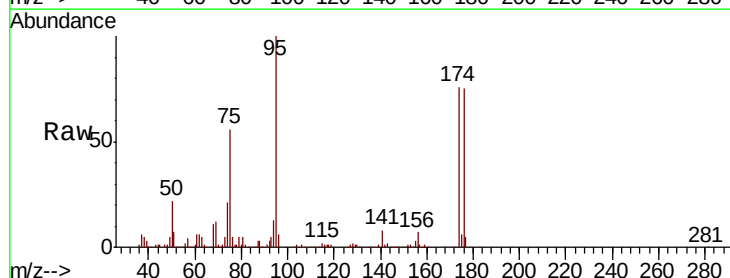
Acq: 29 Oct 2020 14:10

Tgt Ion: 75 Resp: 127648

Ion Ratio Lower Upper

75 100

77 4.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

12.38

80000

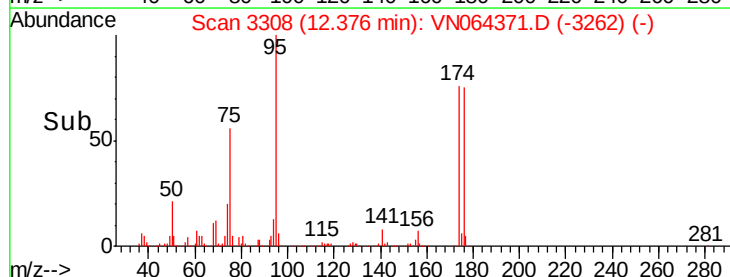
60000

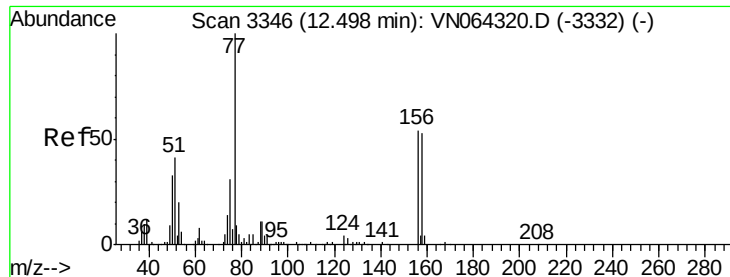
40000

20000

0

Time--> 12.30 12.35 12.40 12.45





#77

Bromobenzene

Concen: 13.099 ug/l

RT: 12.40 min Scan# 3316

Delta R.T. -0.10 min

Lab File: VN064371.D

Acq: 29 Oct 2020 14:10

Instrument :

MSVOA_N

ClientSampleId :

MW-2

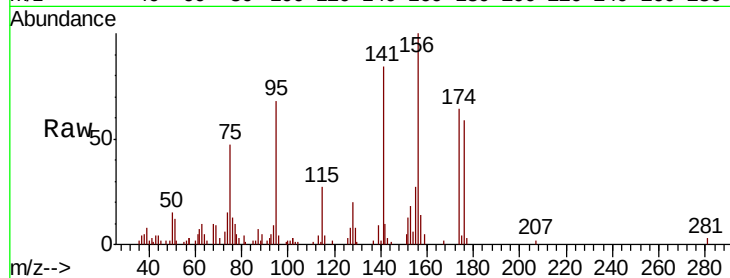
Tot Ion:156 Resp: 44083

Ion Ratio Lower Upper

156 100

77 0.0 111.9 335.7#

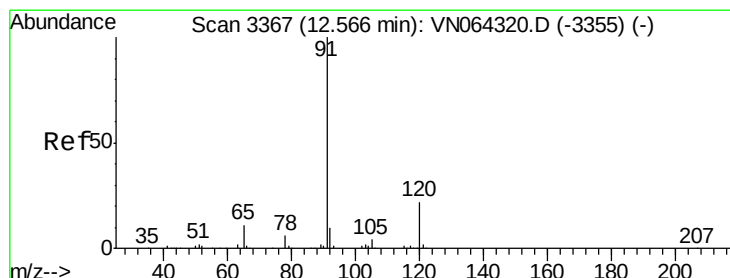
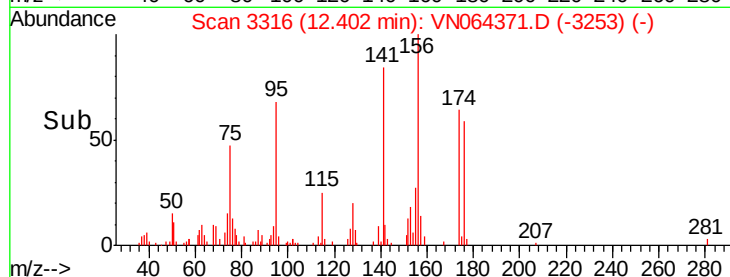
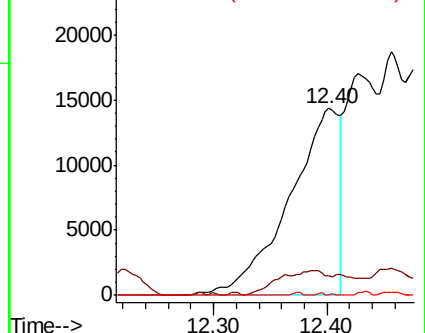
158 0.1 49.0 147.0#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.685 ug/l

RT: 12.57 min Scan# 3368

Delta R.T. 0.00 min

Lab File: VN064371.D

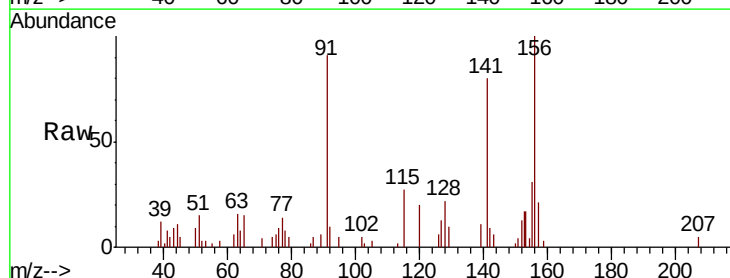
Acq: 29 Oct 2020 14:10

Tgt Ion: 91 Resp: 10661

Ion Ratio Lower Upper

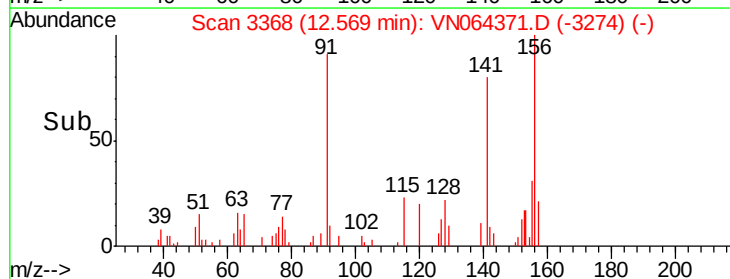
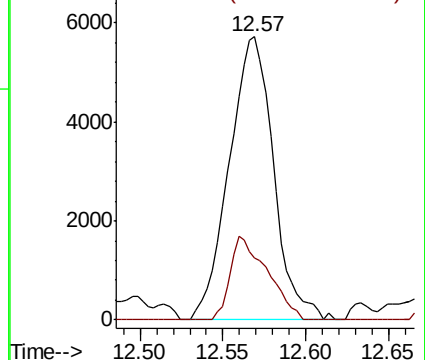
91 100

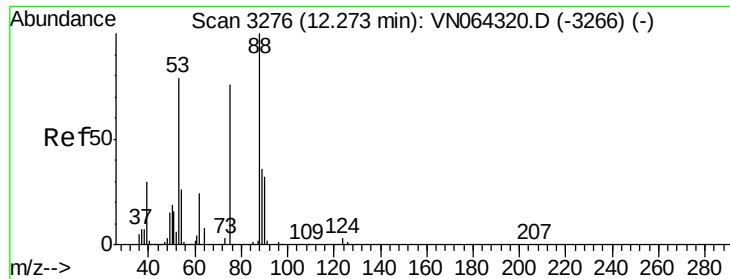
120 24.7 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V

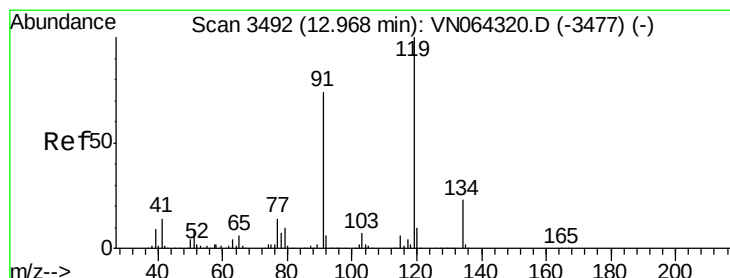
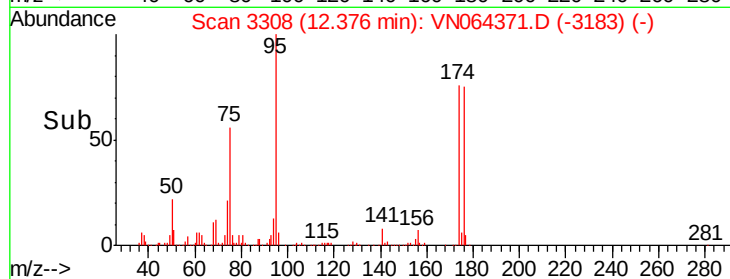
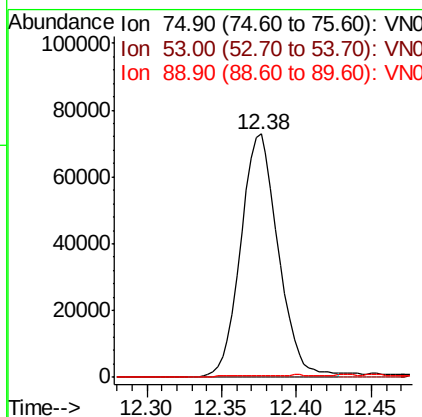
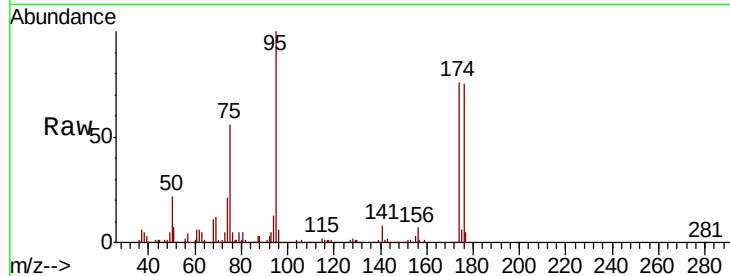




#81
 trans-1,4-Dichloro-2-butene
 Concen: 83.675 ug/l
 RT: 12.38 min Scan# 3308
 Delta R.T. 0.10 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

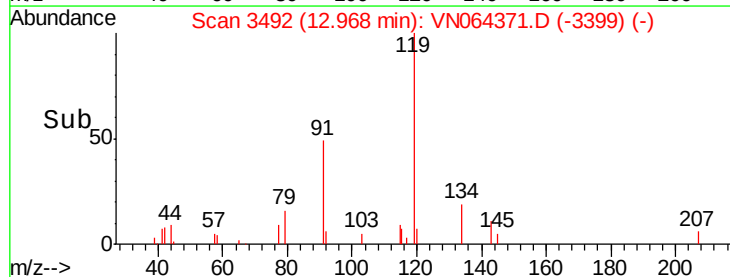
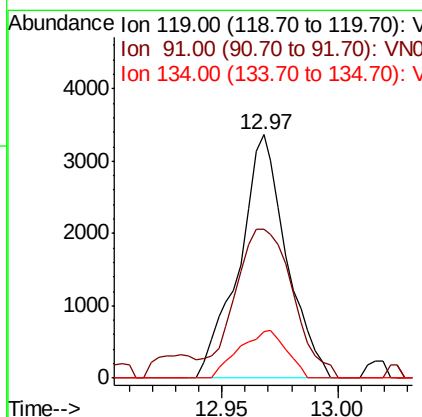
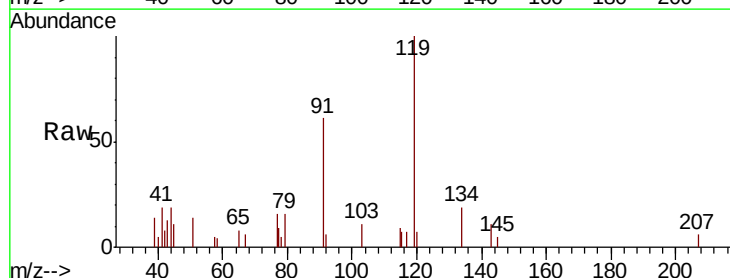
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

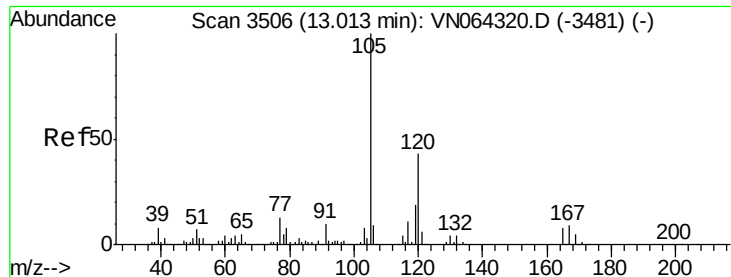
Tot Ion: 75 Resp: 127648
 Ion Ratio Lower Upper
 75 100
 53 0.1 81.8 122.8#
 89 0.5 39.9 59.9#



#83
 tert-Butylbenzene
 Concen: 0.501 ug/l
 RT: 12.97 min Scan# 3492
 Delta R.T. 0.00 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Tgt Ion: 119 Resp: 4777
 Ion Ratio Lower Upper
 119 100
 91 75.9 36.4 109.1
 134 19.6 12.0 36.1

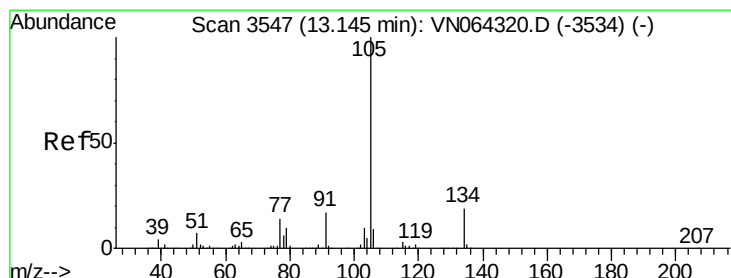
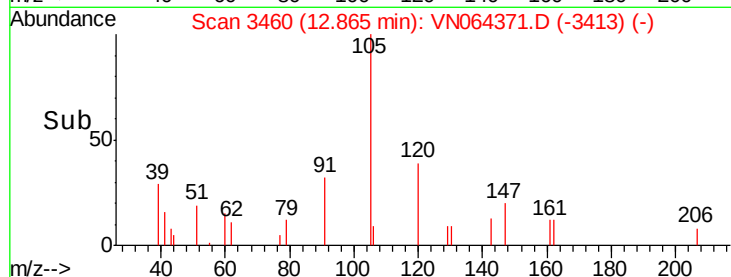
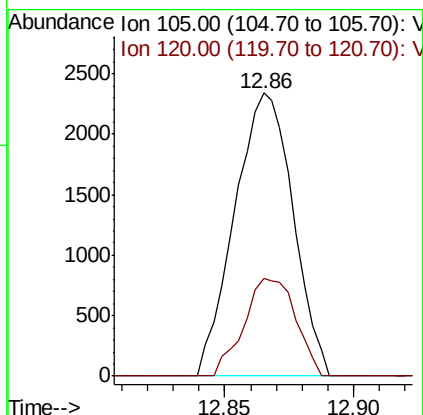
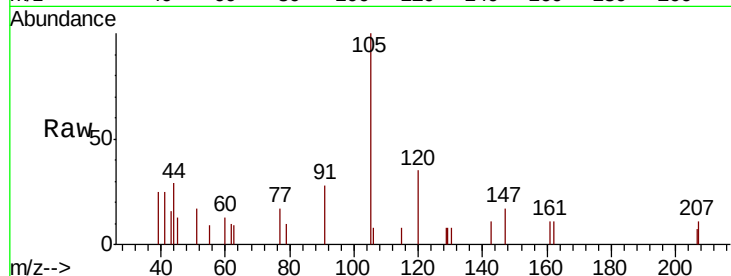




#84
 1,2,4-Trimethylbenzene
 Concen: 0.318 ug/l
 RT: 12.86 min Scan# 3460
 Delta R.T. -0.15 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

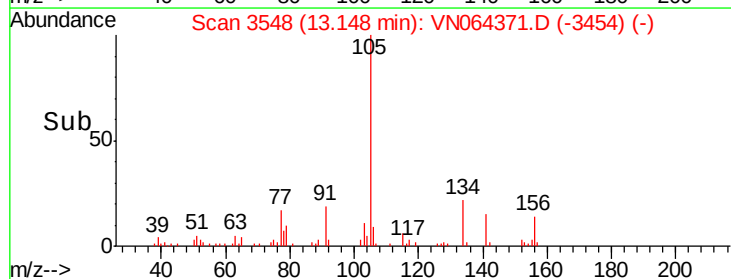
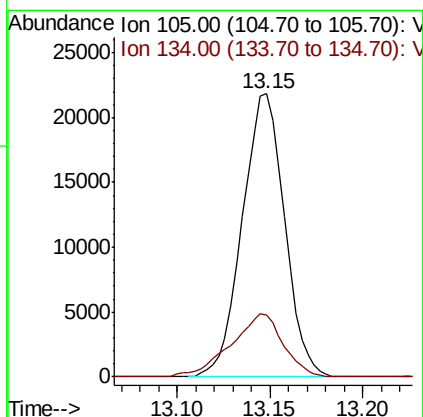
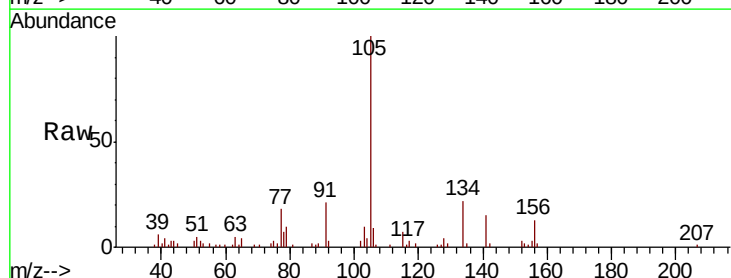
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

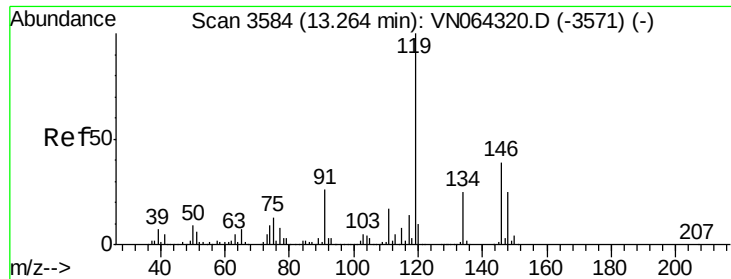
Tot Ion:105 Resp: 3694
 Ion Ratio Lower Upper
 105 100
 120 30.5 21.3 64.0



#85
 sec-Butylbenzene
 Concen: 2.798 ug/l
 RT: 13.15 min Scan# 3548
 Delta R.T. 0.00 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Tgt Ion:105 Resp: 34548
 Ion Ratio Lower Upper
 105 100
 134 27.5 9.6 28.8

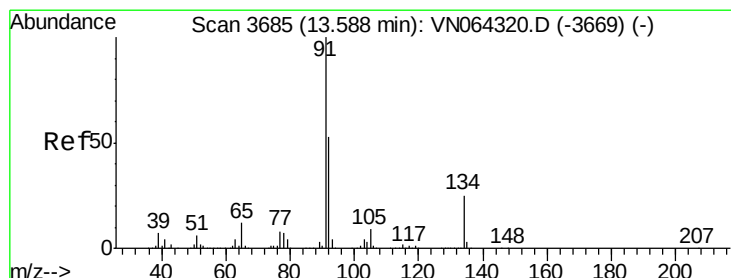
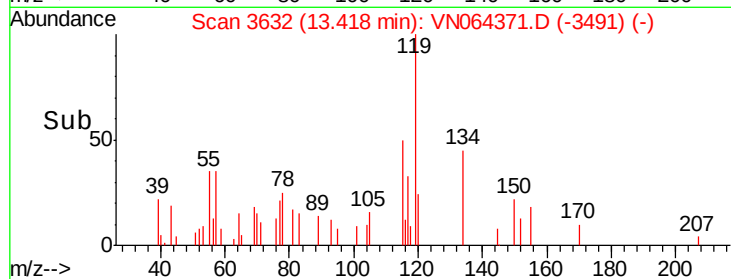
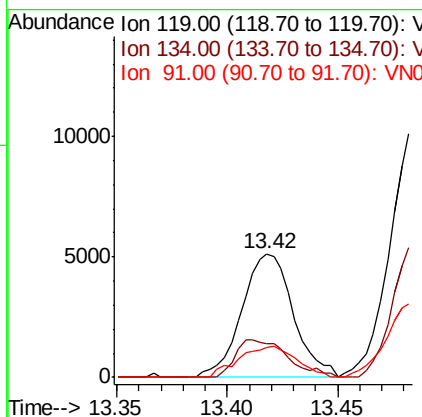
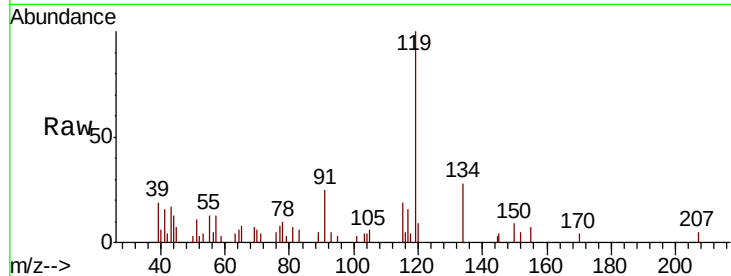




#86
 p-Isopropyltoluene
 Concen: 0.749 ug/l
 RT: 13.42 min Scan# 3632
 Delta R.T. 0.15 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

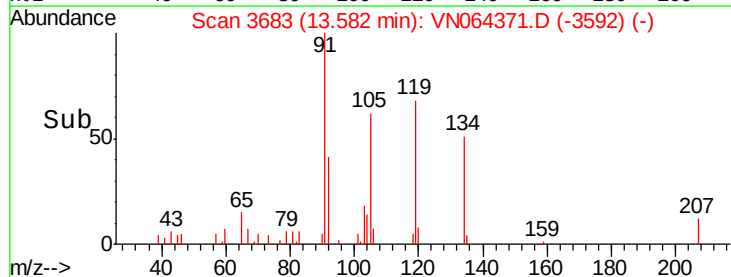
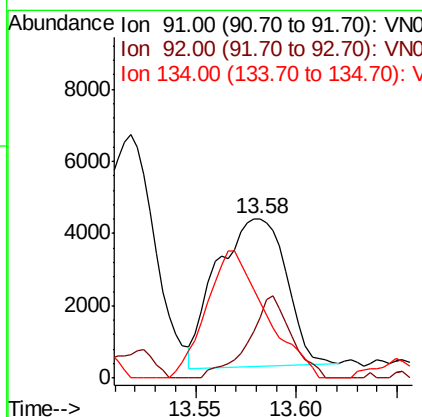
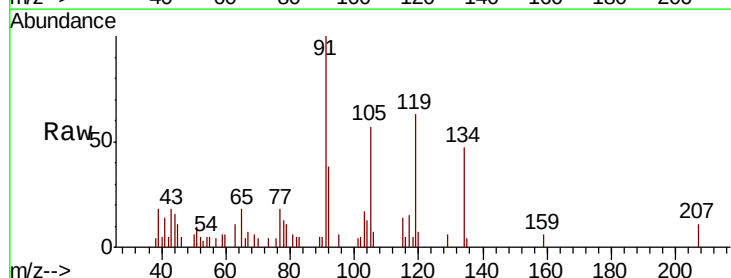
Instrument :
 MSVOA_N
 ClientSampled :
 MW-2

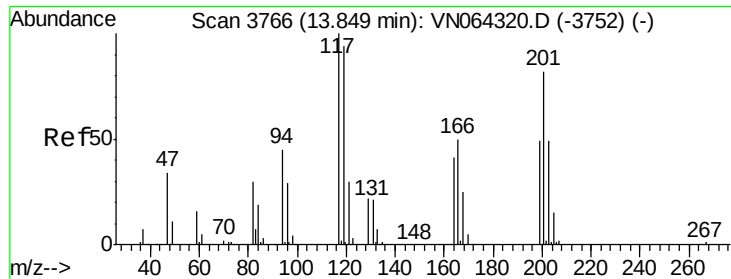
Tot Ion:119 Resp: 8330
 Ion Ratio Lower Upper
 119 100
 134 31.3 12.8 38.4
 91 28.3 13.0 38.9



#89
 n-Butylbenzene
 Concen: 1.001 ug/l
 RT: 13.58 min Scan# 3683
 Delta R.T. -0.01 min
 Lab File: VN064371.D
 Acq: 29 Oct 2020 14:10

Tgt Ion: 91 Resp: 9807
 Ion Ratio Lower Upper
 91 100
 92 34.3 26.2 78.5
 134 0.0 12.4 37.4#

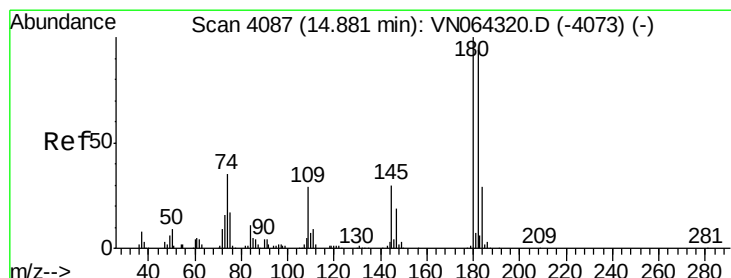
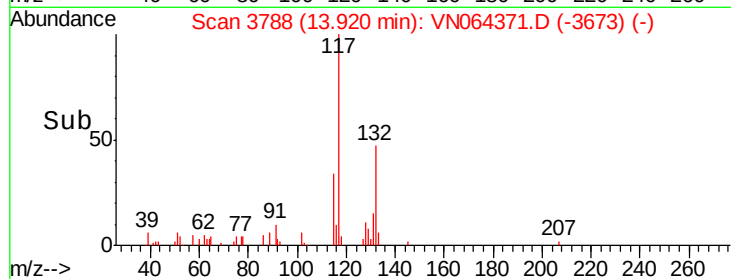
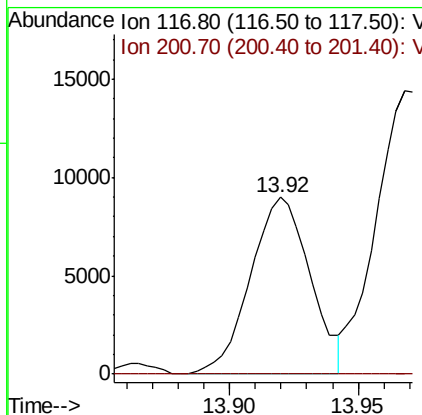
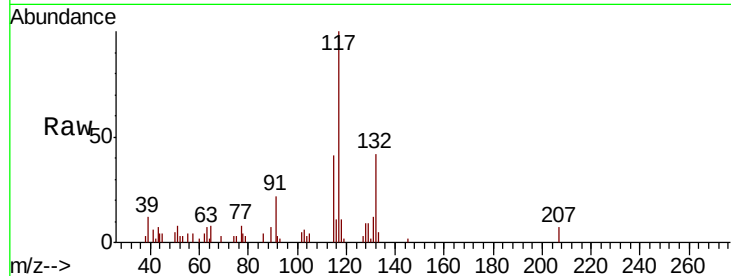




#90
Hexachloroethane
Concen: 6.955 ug/l
RT: 13.92 min Scan# 3788
Delta R.T. 0.07 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

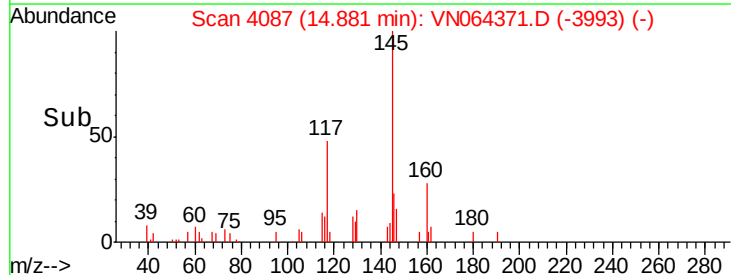
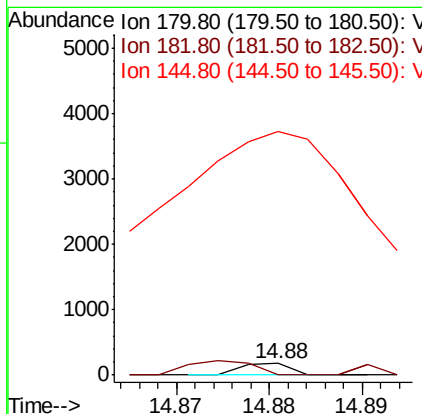
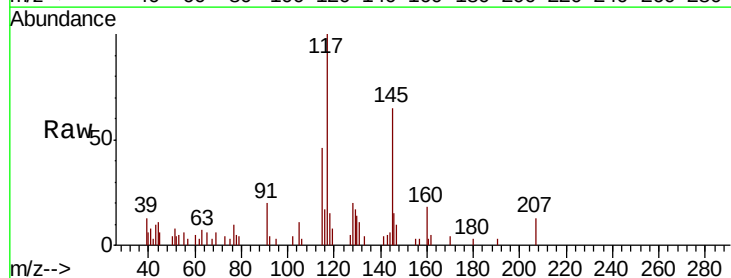
Instrument :
MSVOA_N
ClientSampleId :
MW-2

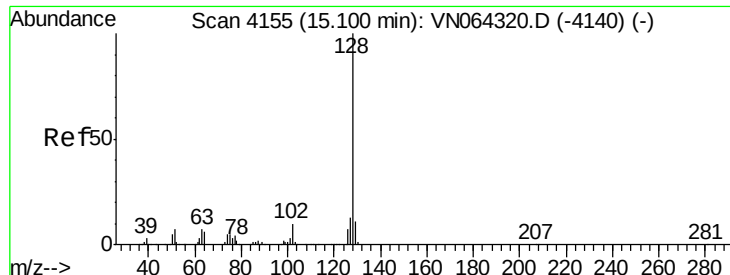
Tot Ion:117 Resp: 14531
Ion Ratio Lower Upper
117 100
201 0.0 39.8 119.3#



#93
1,2,4-Trichlorobenzene
Concen: 2.036 ug/l
RT: 14.88 min Scan# 4087
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Tgt Ion:180 Resp: 64
Ion Ratio Lower Upper
180 100
182 168.8 46.6 139.7#
145 10125.0 15.3 45.9#

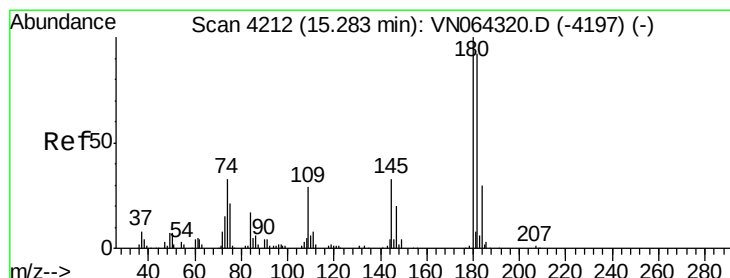
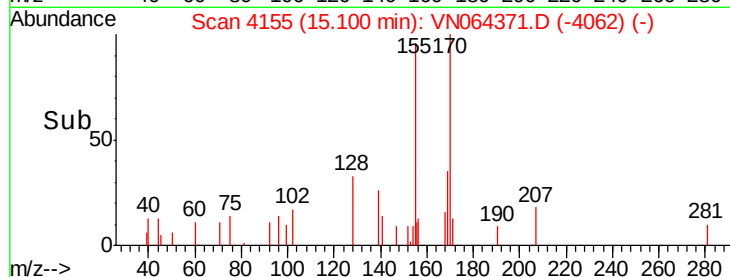
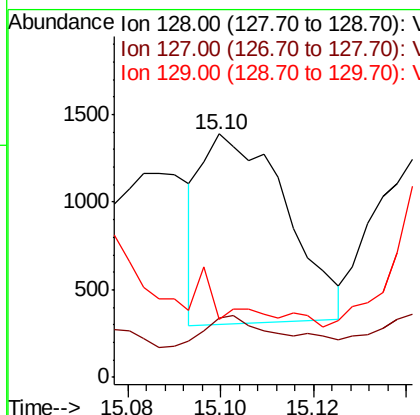
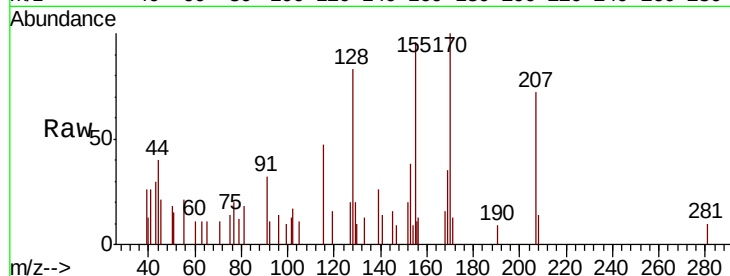




#95
Naphthalene
Concen: 2.518 ug/l
RT: 15.10 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Instrument :
MSVOA_N
ClientSampled :
MW-2

Tot Ion:128 Resp: 1370
Ion Ratio Lower Upper
128 100
127 23.4 10.4 15.6#
129 0.0 8.6 13.0#



#96
1,2,3-Trichlorobenzene
Concen: 2.240 ug/l
RT: 15.28 min Scan# 4212
Delta R.T. 0.00 min
Lab File: VN064371.D
Acq: 29 Oct 2020 14:10

Tgt Ion:180 Resp: 197
Ion Ratio Lower Upper
180 100
182 17.8 46.1 138.3#
145 0.0 16.2 48.5#

