

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064591.D
 Acq On : 12 Nov 2020 19:15
 Operator : JC/MD
 Sample : L4701-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-3-BOTTOM

Quant Time: Nov 13 02:54:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110420W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 04 12:09:03 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	226548	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	496672	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	538076	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	190737	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	235540	59.69	ug/l	0.00
Spiked Amount			Recovery	=	119.38%	
35) Dibromofluoromethane	7.55	113	174060	51.47	ug/l	0.00
Spiked Amount			Recovery	=	102.94%	
50) Toluene-d8	10.06	98	657531	50.31	ug/l	0.00
Spiked Amount			Recovery	=	100.62%	
62) 4-Bromofluorobenzene	12.38	95	245875	49.74	ug/l	0.00
Spiked Amount			Recovery	=	99.48%	

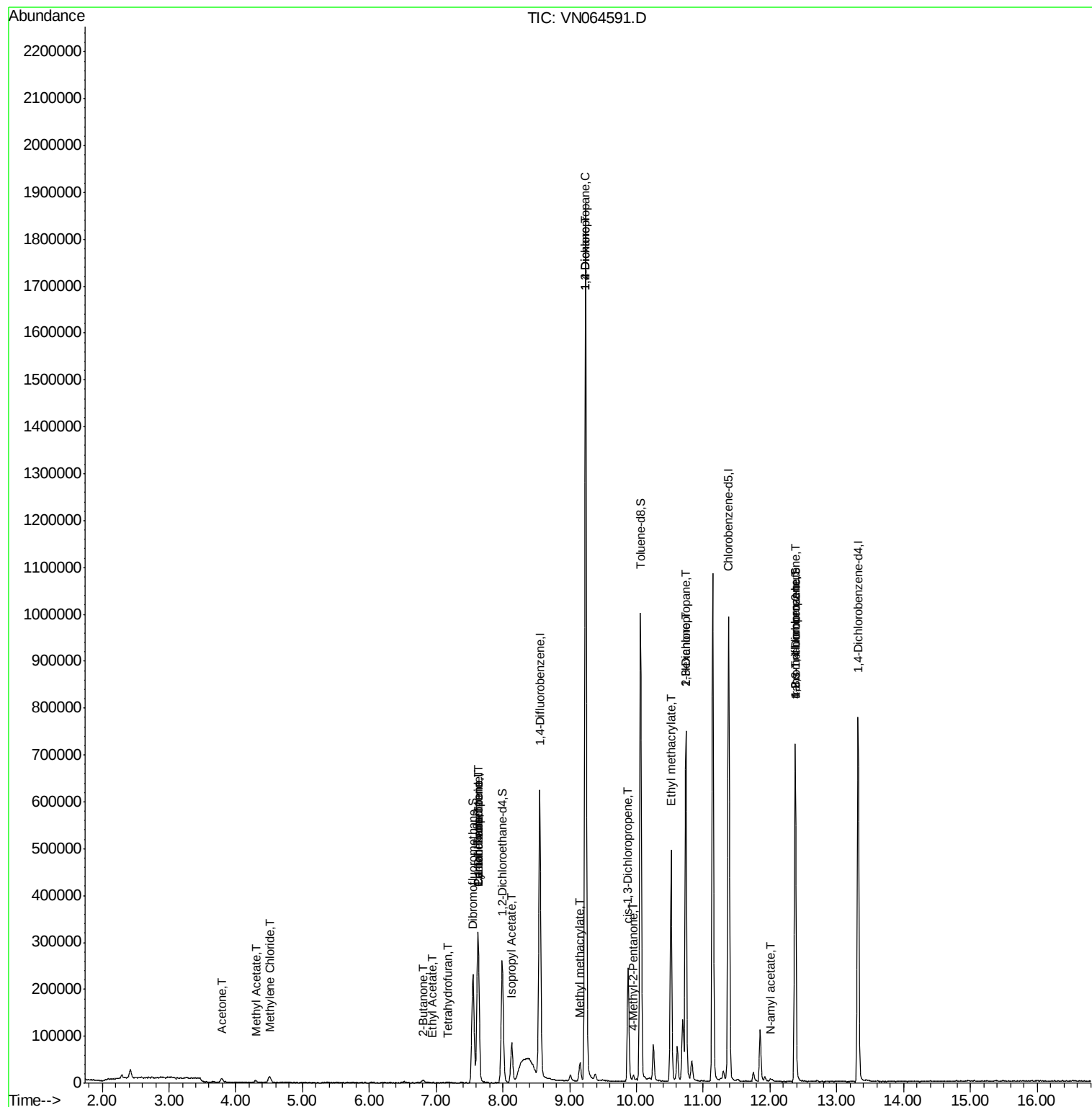
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	14948	9.944	ug/l	92
18) Methyl Acetate	4.29	43	7274	2.461	ug/l #	88
20) Methylene Chloride	4.50	84	9484	3.180	ug/l #	69
25) 2-Butanone	6.80	43	5660	2.955	ug/l	92
29) Tetrahydrofuran	7.17	42	430	0.366	ug/l #	37
31) Cyclohexane	7.63	56	7047	1.469	ug/l #	23
36) 1,1-Dichloropropene	7.62	75	22717	4.330	ug/l #	50
37) Ethyl Acetate	6.94	43	359	0.829	ug/l #	71
38) Carbon Tetrachloride	7.63	117	27154	4.842	ug/l #	21
43) Isopropyl Acetate	8.13	43	100077	11.769	ug/l	99
45) 1,2-Dichloropropane	9.23	63	2112	0.513	ug/l #	45
48) Methyl methacrylate	9.15	41	6380	1.487	ug/l #	15
49) 1,4-Dioxane	9.24	88	71	1.256	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	9233	1.862	ug/l	90
54) cis-1,3-Dichloropropene	9.87	75	37518	5.684	ug/l #	73
56) Ethyl methacrylate	10.52	69	3764	2.442	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	7131	1.114	ug/l #	42
59) 2-Hexanone	10.74	43	118196	32.787	ug/l #	55
74) N-amyl acetate	12.01	43	4871	1.861	ug/l #	52
76) 1,2,3-Trichloropropane	12.38	75	136377	29.510	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	136377	82.395	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

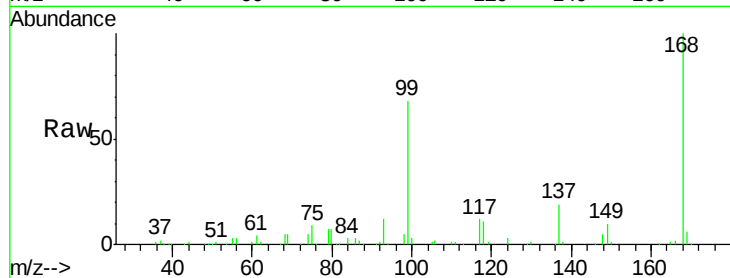
TRANSFORMER-5-3-BOTTOM

Tot Ion:168 Resp: 226548

Ion Ratio Lower Upper

168 100

99 67.8 53.4 80.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

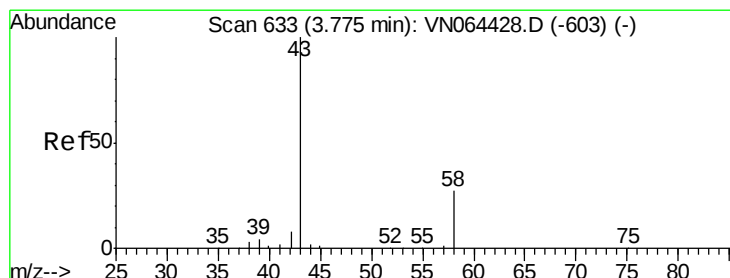
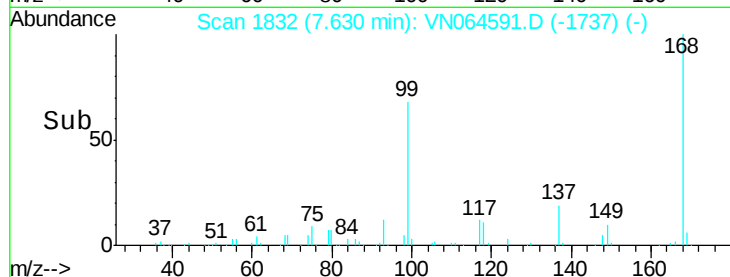
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 9.944 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064591.D

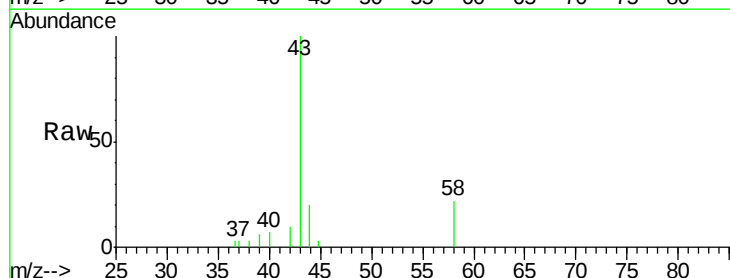
Acq: 12 Nov 2020 19:15

Tgt Ion: 43 Resp: 14948

Ion Ratio Lower Upper

43 100

58 22.3 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.79

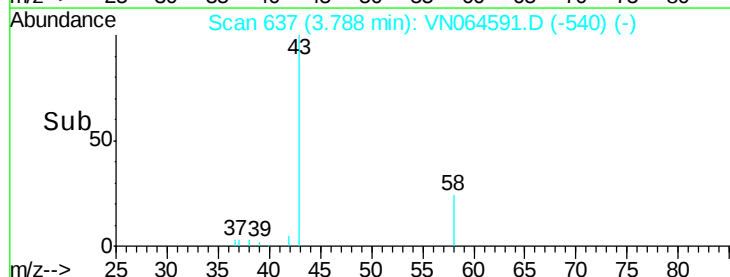
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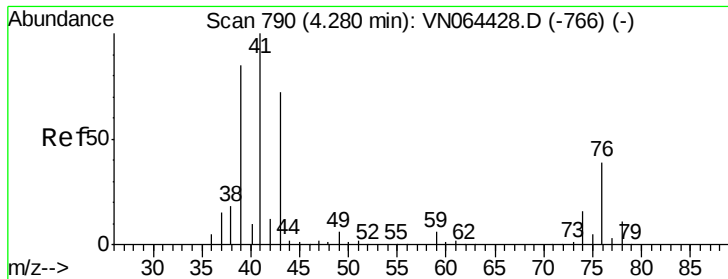
4000

2000

0

Time-->

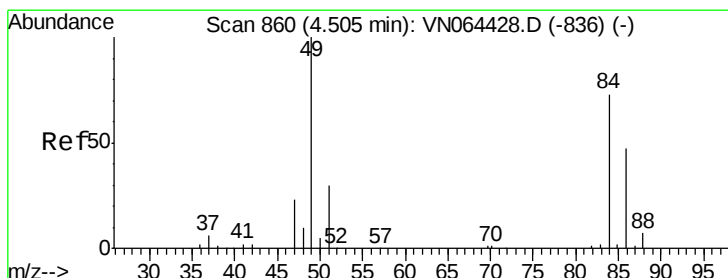
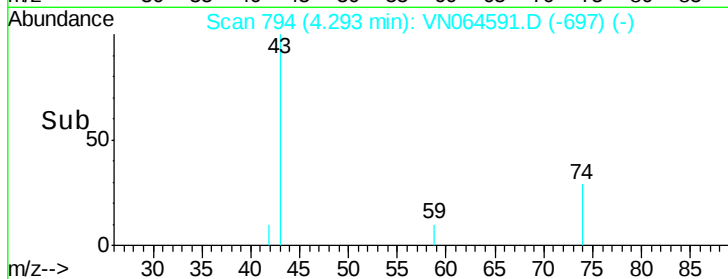
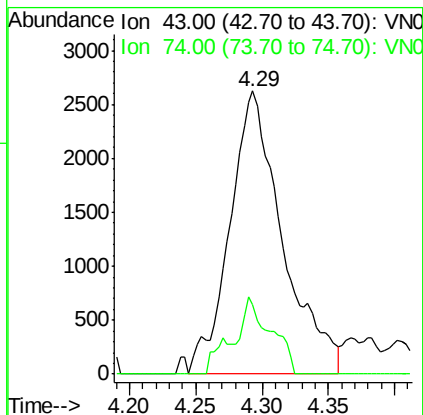
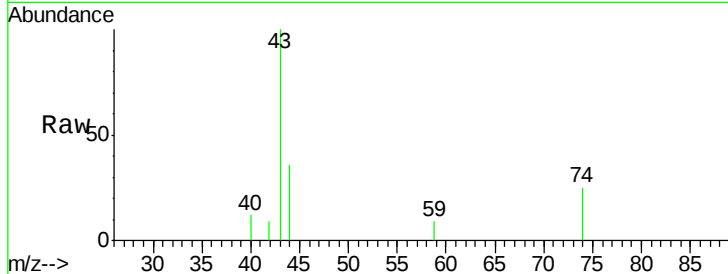




#18
Methyl Acetate
Concen: 2.461 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.01 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

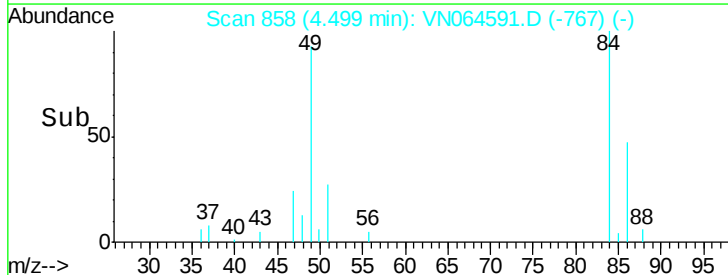
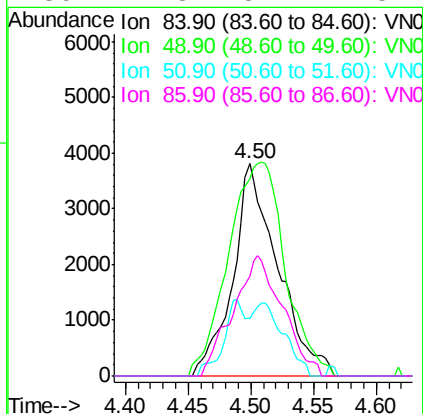
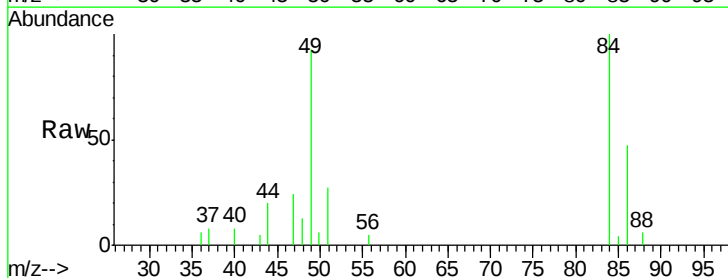
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-BOTTOM

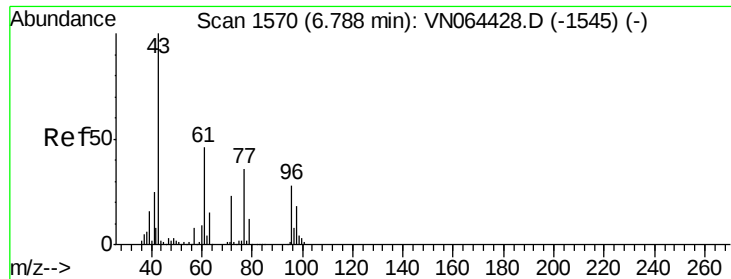
Tot Ion: 43 Resp: 7274
Ion Ratio Lower Upper
43 100
74 15.3 17.0 25.4#



#20
Methylene Chloride
Concen: 3.180 ug/l
RT: 4.50 min Scan# 858
Delta R.T. -0.01 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion: 84 Resp: 9484
Ion Ratio Lower Upper
84 100
49 92.8 110.1 165.1#
51 27.1 33.6 50.4#
86 47.3 52.1 78.1#





#25

2-Butanone

Concen: 2.955 ug/l

RT: 6.80 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

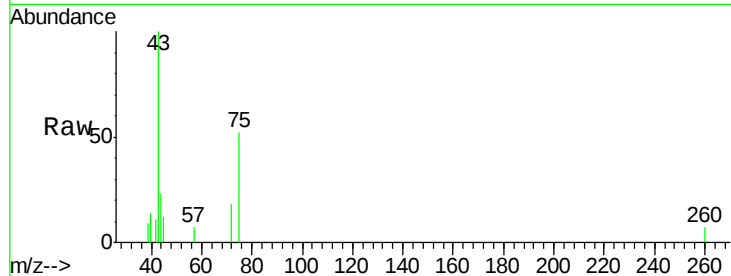
TRANSFORMER-5-3-BOTTOM

Tot Ion: 43 Resp: 5660

Ion Ratio Lower Upper

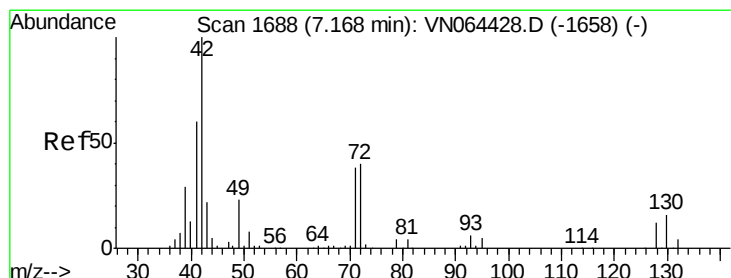
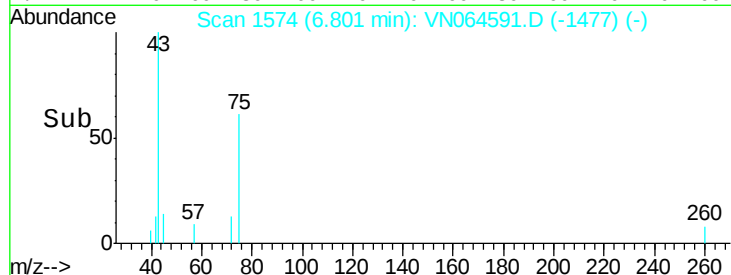
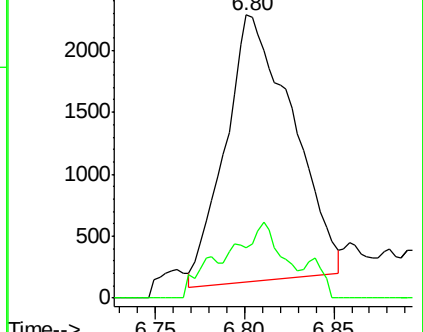
43 100

72 19.3 18.5 27.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0



#29

Tetrahydrofuran

Concen: 0.366 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

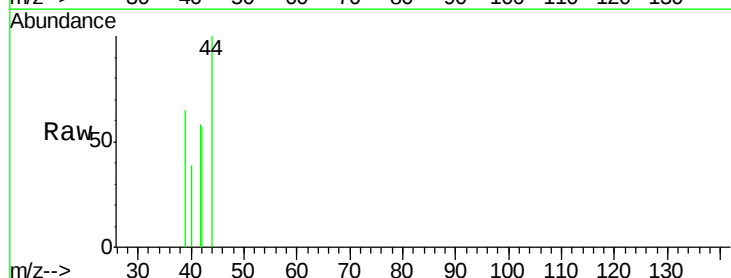
Tgt Ion: 42 Resp: 430

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

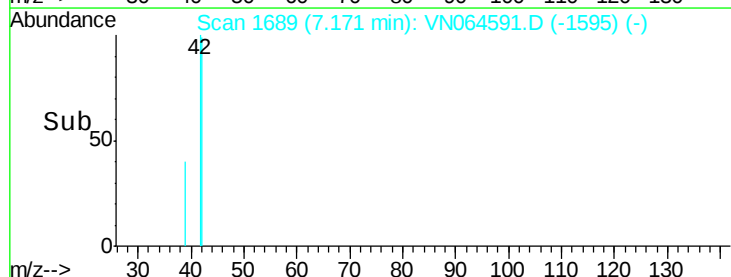
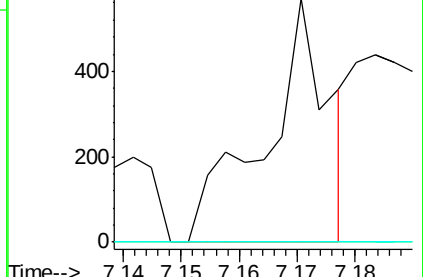
71 0.0 29.8 44.6#

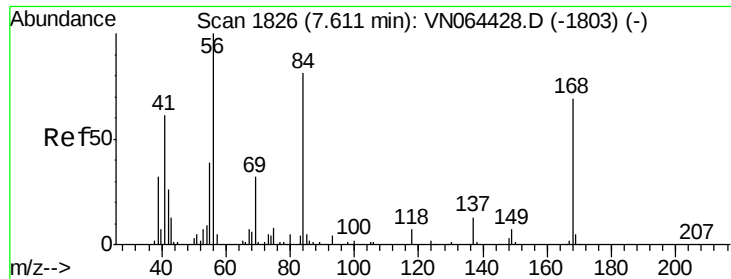


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

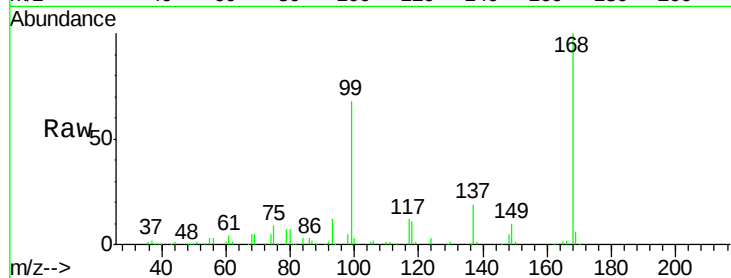




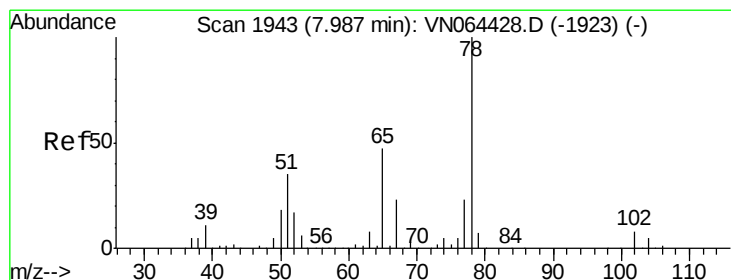
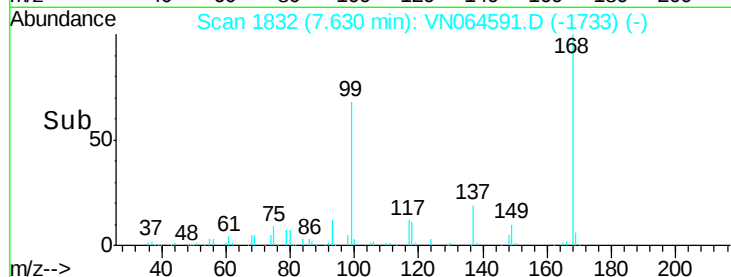
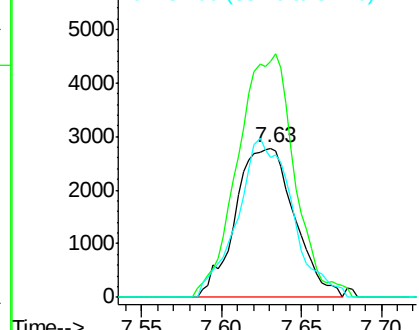
#31
Cyclohexane
Concen: 1.469 ug/l
RT: 7.63 min Scan# 1832
Delta R.T. 0.02 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Instrument :
MSVOA_N
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TRANSFORMER-5-3-BOTTOM

Tot Ion: 56 Resp: 7047
Ion Ratio Lower Upper
56 100
69 158.0 25.6 38.4#
84 93.4 63.0 94.6

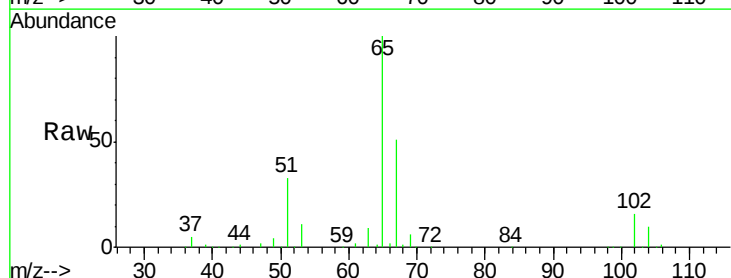


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

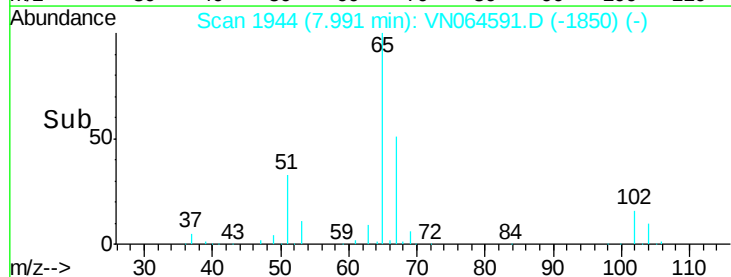
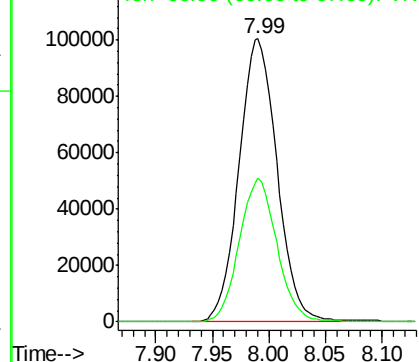


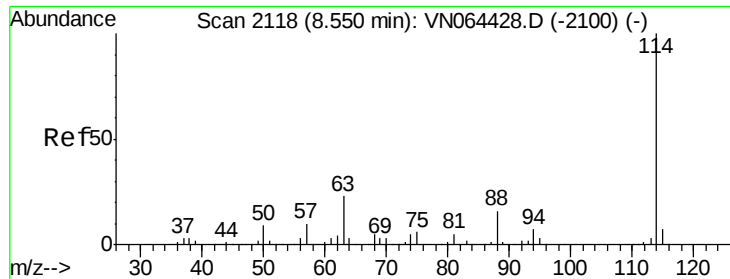
#33
1,2-Dichloroethane-d4
Concen: 59.689 ug/l
RT: 7.99 min Scan# 1944
Delta R.T. 0.00 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion: 65 Resp: 235540
Ion Ratio Lower Upper
65 100
67 50.1 0.0 101.6



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

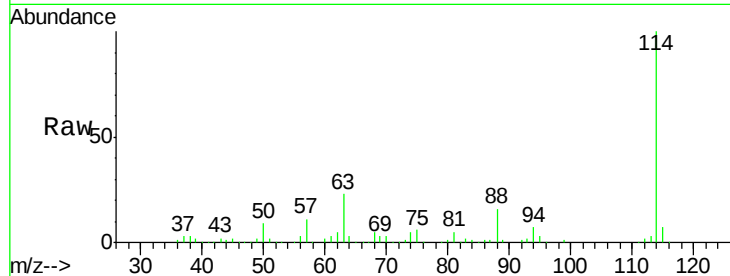




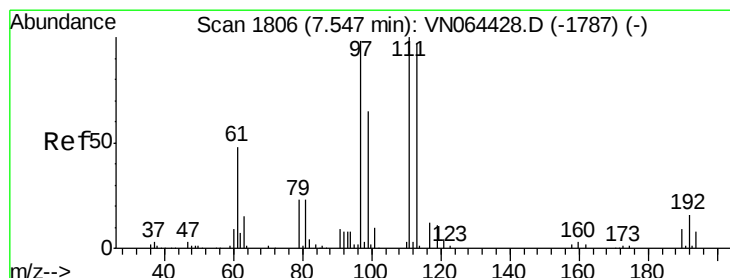
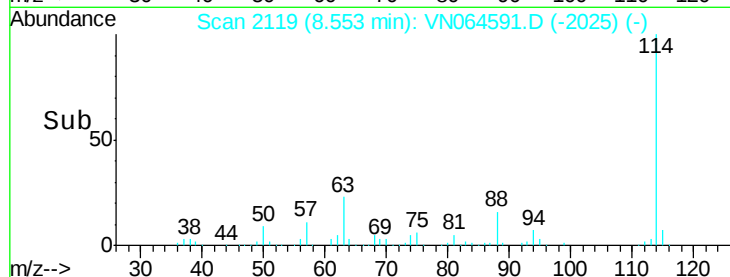
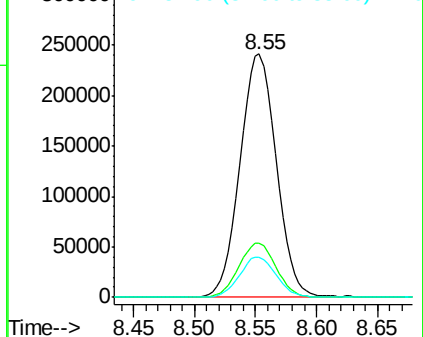
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Instrument :
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Tot Ion:114 Resp: 496672
Ion Ratio Lower Upper
114 100
63 22.5 0.0 45.6
88 16.3 0.0 32.8

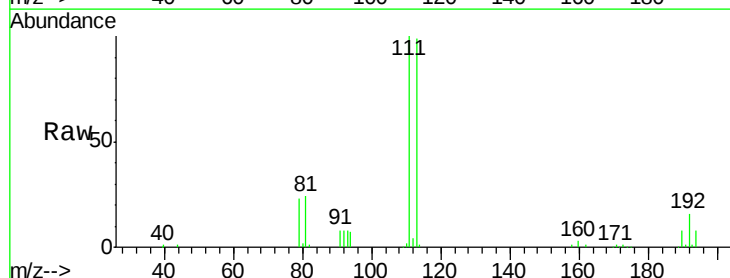


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

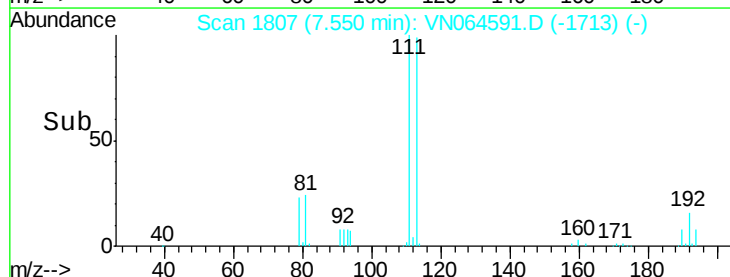
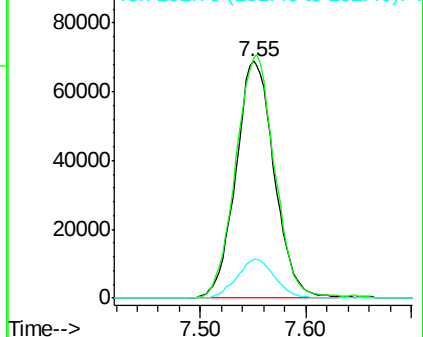


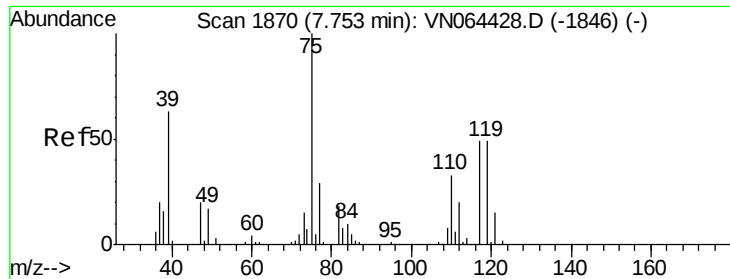
#35
Dibromofluoromethane
Concen: 51.472 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion:113 Resp: 174060
Ion Ratio Lower Upper
113 100
111 103.9 81.1 121.7
192 16.3 12.8 19.2



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

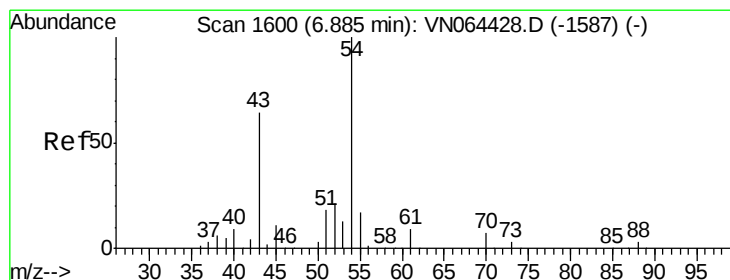
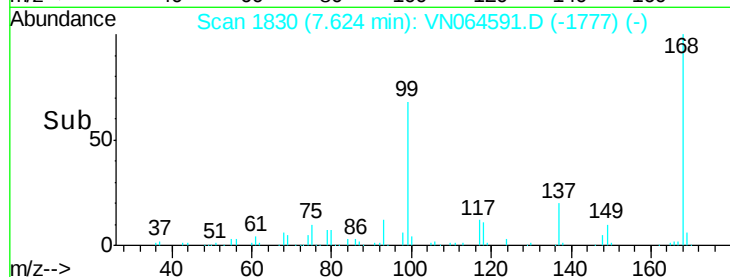
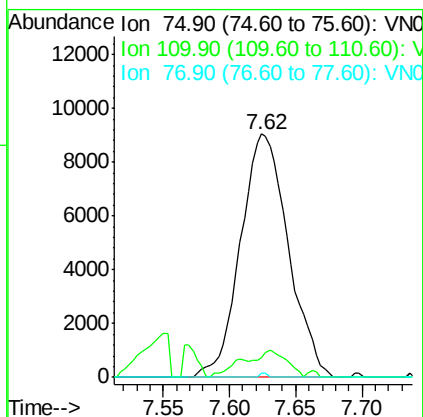
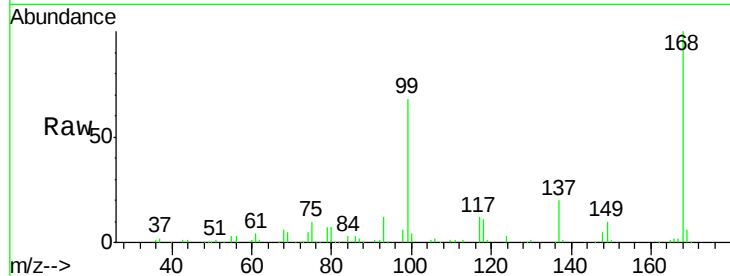




#36
 1,1-Dichloropropene
 Concen: 4.330 ug/l
 RT: 7.62 min Scan# 1830
 Delta R.T. -0.13 min
 Lab File: VN064591.D
 Acq: 12 Nov 2020 19:15

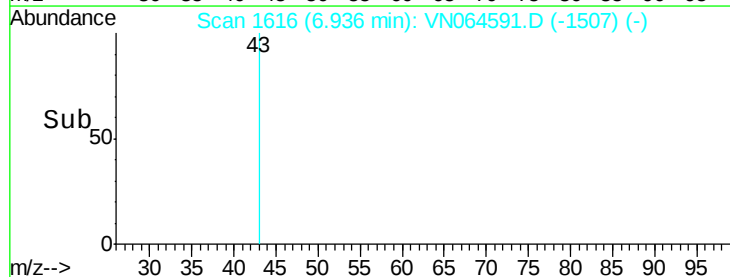
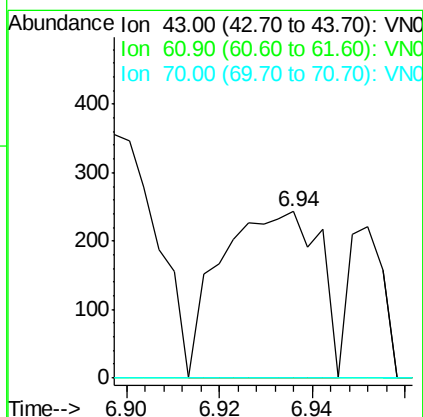
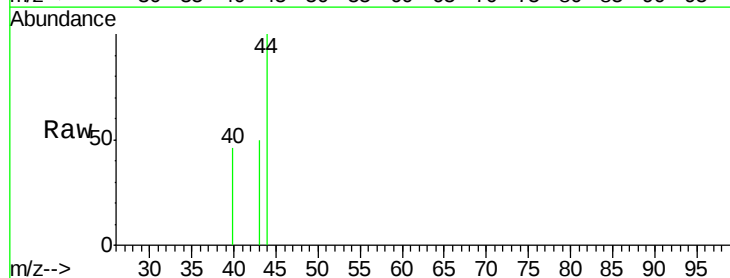
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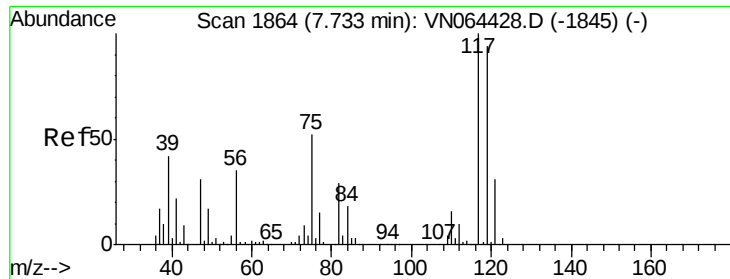
Tot Ion: 75 Resp: 22717
 Ion Ratio Lower Upper
 75 100
 110 6.4 16.0 48.0#
 77 0.3 24.0 36.0#



#37
 Ethyl Acetate
 Concen: 0.829 ug/l
 RT: 6.94 min Scan# 1616
 Delta R.T. 0.05 min
 Lab File: VN064591.D
 Acq: 12 Nov 2020 19:15

Tgt Ion: 43 Resp: 359
 Ion Ratio Lower Upper
 43 100
 61 0.0 10.0 15.0#
 70 0.0 7.1 10.7#





#38

Carbon Tetrachloride

Concen: 4.842 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-BOTTOM

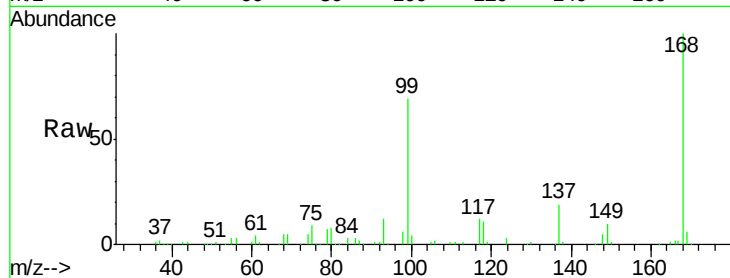
Tot Ion:117 Resp: 27154

Ion Ratio Lower Upper

117 100

119 10.3 75.5 113.3#

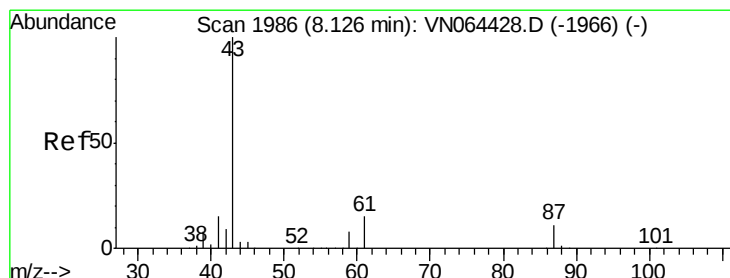
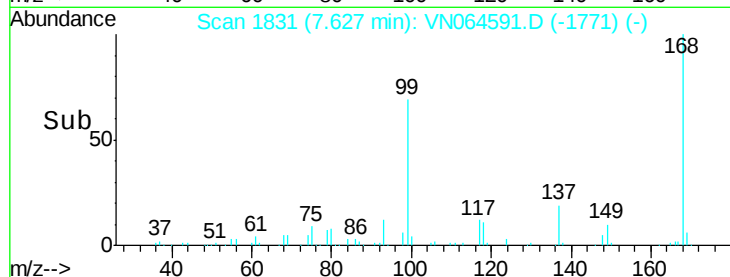
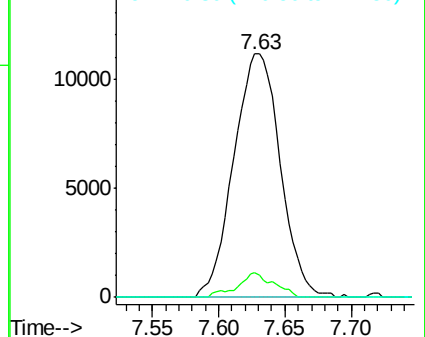
121 0.0 24.4 36.6#



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



#43

Isopropyl Acetate

Concen: 11.769 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

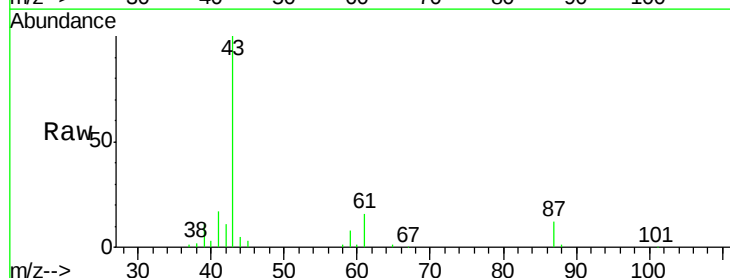
Tgt Ion: 43 Resp: 100077

Ion Ratio Lower Upper

43 100

61 17.1 14.0 21.0

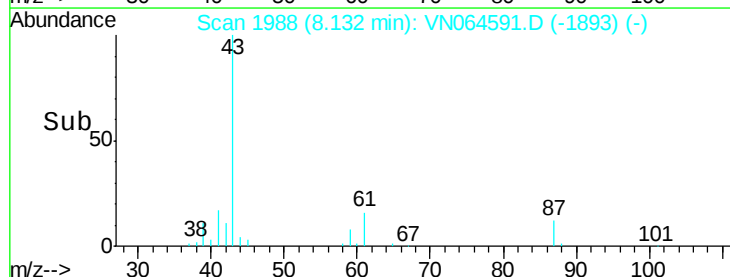
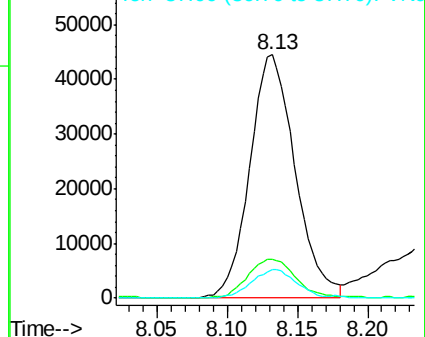
87 11.6 9.1 13.7

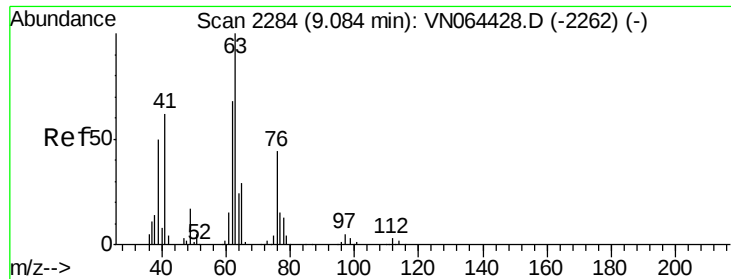


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO





#45

1,2-Dichloropropane

Concen: 0.513 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

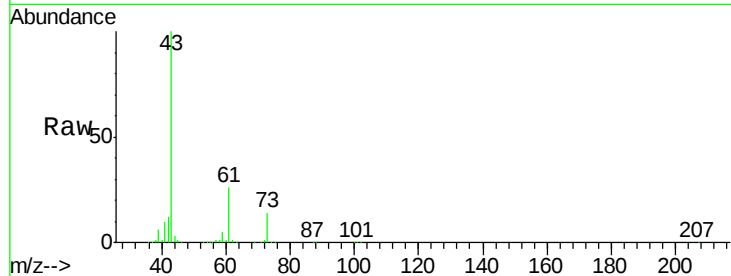
TRANSFORMER-5-3-BOTTOM

Tot Ion: 63 Resp: 2112

Ion Ratio Lower Upper

63 100

65 0.0 23.6 35.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.23

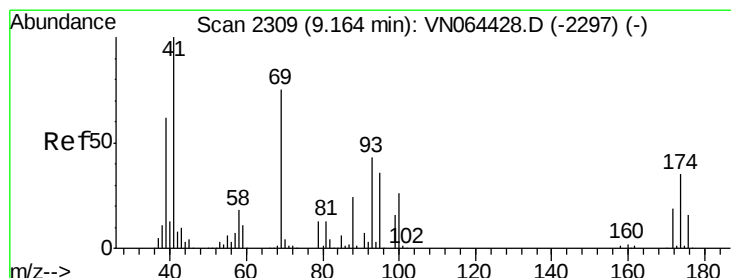
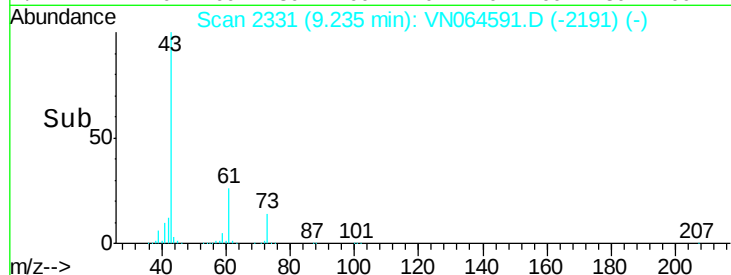
1000

500

0

Time-->

9.20 9.25



#48

Methyl methacrylate

Concen: 1.487 ug/l

RT: 9.15 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

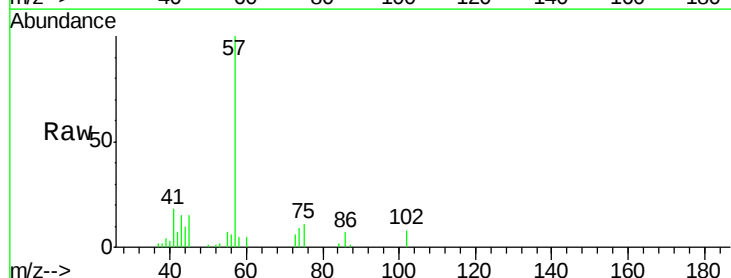
Tgt Ion: 41 Resp: 6380

Ion Ratio Lower Upper

41 100

69 0.0 60.4 90.6#

39 0.0 51.2 76.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

100000

80000

60000

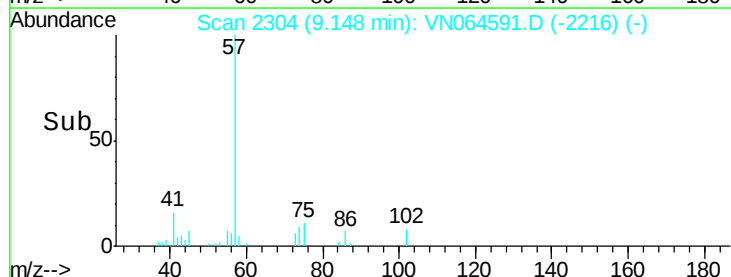
40000

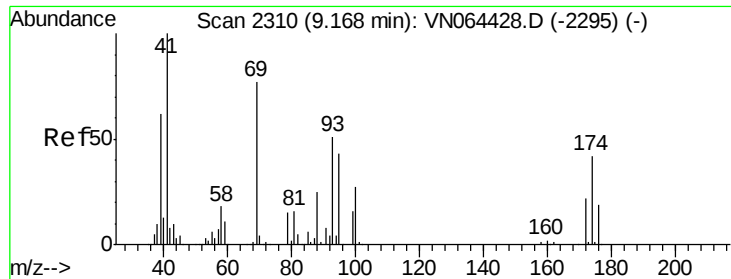
20000

0

Time-->

9.10 9.15 9.20





#49

1,4-Dioxane

Concen: 1.256 ug/l

RT: 9.24 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-BOTTOM

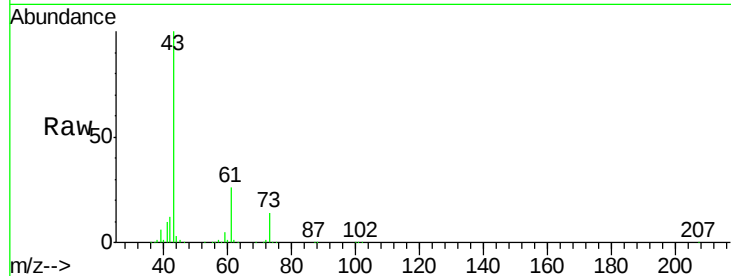
Tot Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 2577562.0 31.0 46.6#

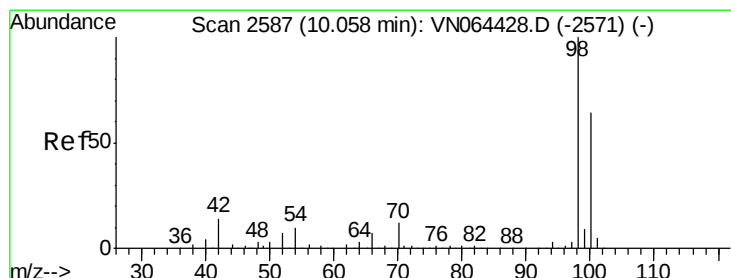
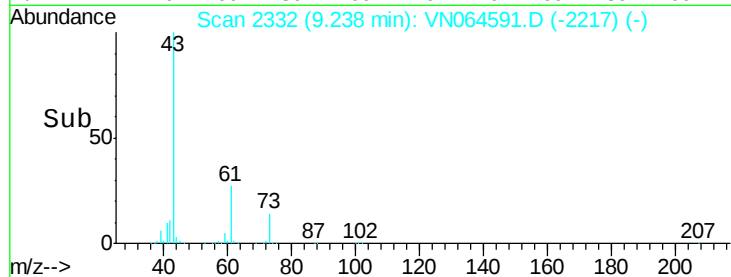
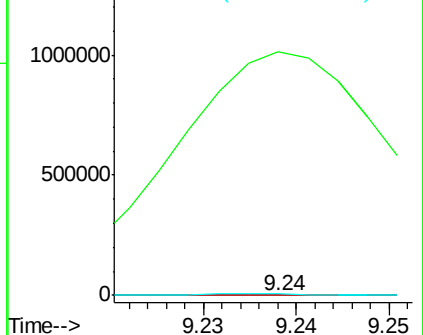
58 12760.6 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 50.308 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064591.D

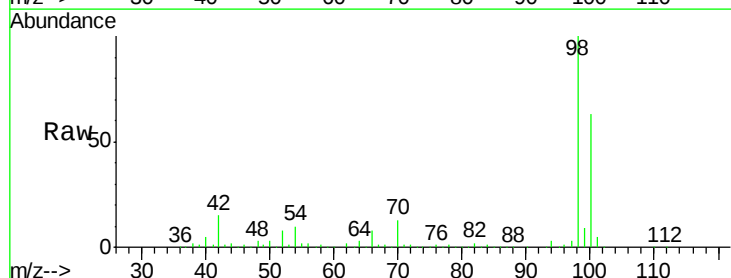
Acq: 12 Nov 2020 19:15

Tgt Ion: 98 Resp: 657531

Ion Ratio Lower Upper

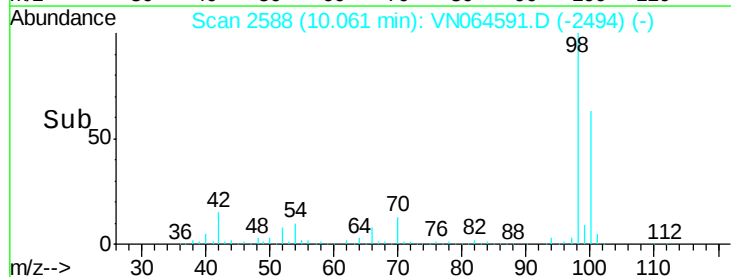
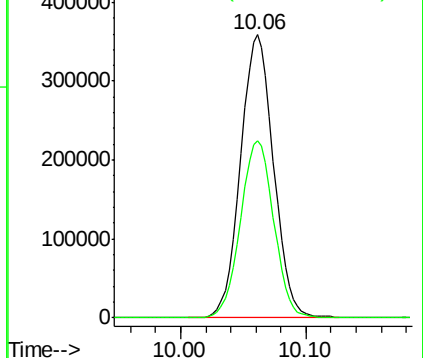
98 100

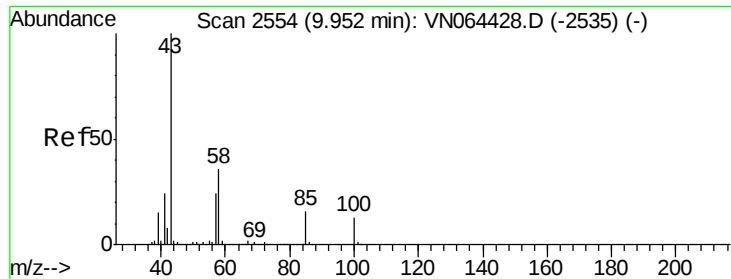
100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

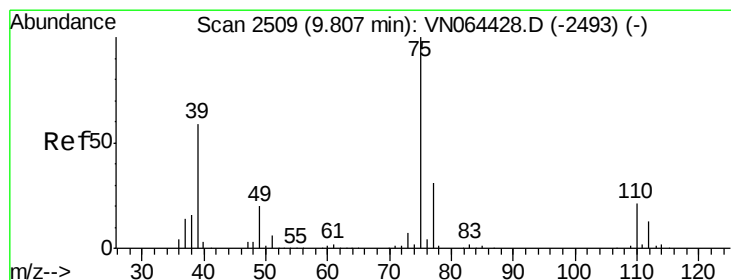
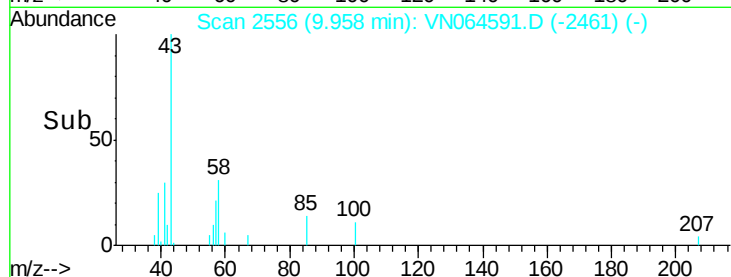
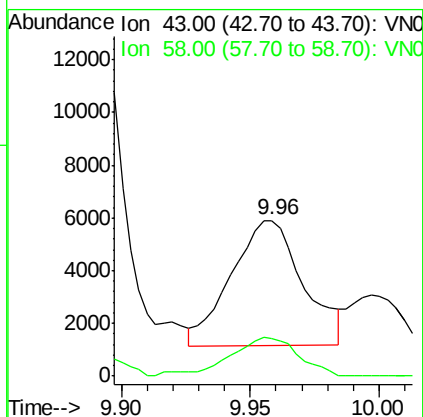
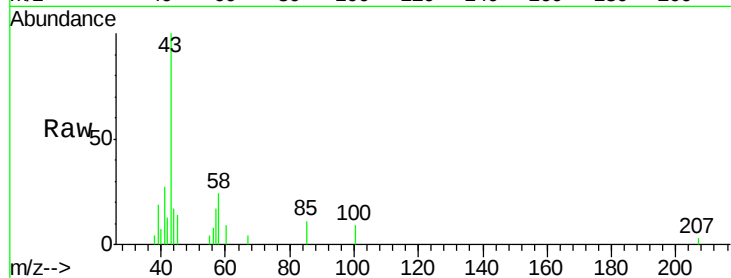




#51
4-Methyl-2-Pentanone
Concen: 1.862 ug/l
RT: 9.96 min Scan# 2556
Delta R.T. 0.01 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

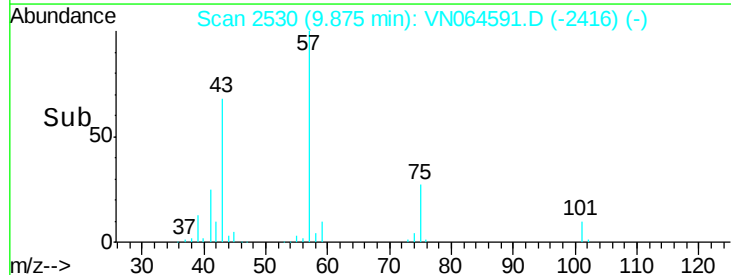
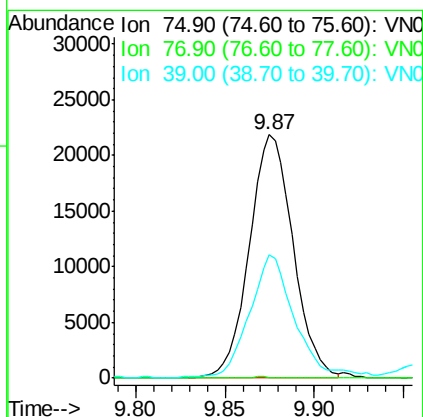
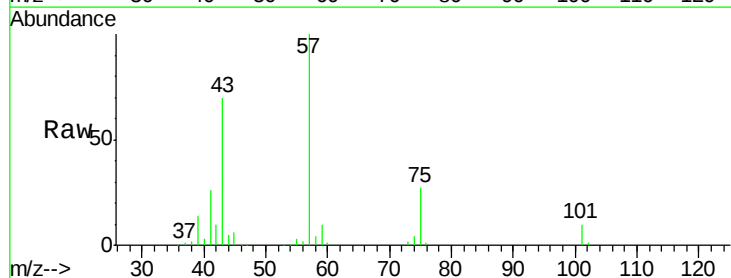
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-BOTTOM

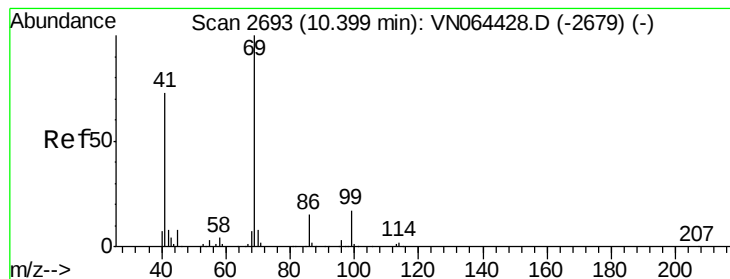
Tot Ion: 43 Resp: 9233
Ion Ratio Lower Upper
43 100
58 29.6 28.4 42.6



#54
cis-1,3-Dichloropropene
Concen: 5.684 ug/l
RT: 9.87 min Scan# 2530
Delta R.T. 0.07 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion: 75 Resp: 37518
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 50.1 47.1 70.7





#56

Ethyl methacrylate

Concen: 2.442 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-BOTTOM

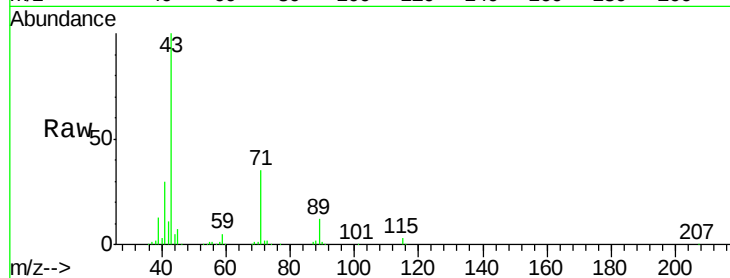
Tot Ion: 69 Resp: 3764

Ion Ratio Lower Upper

69 100

41 2751.8 59.3 88.9#

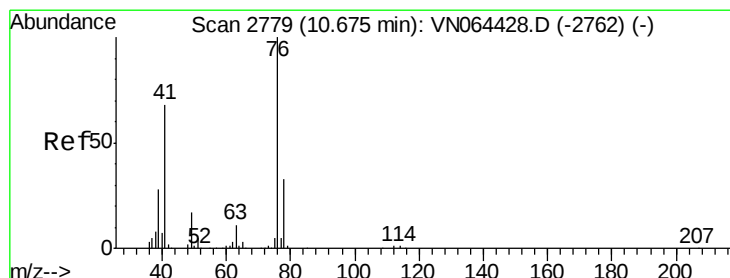
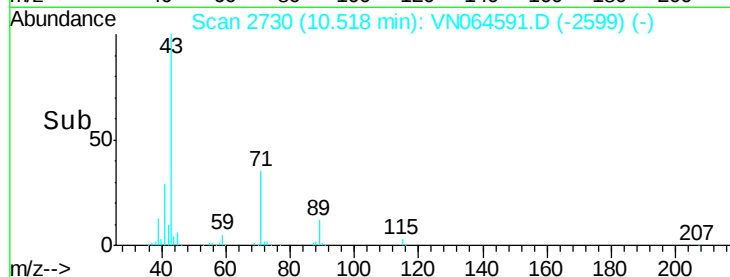
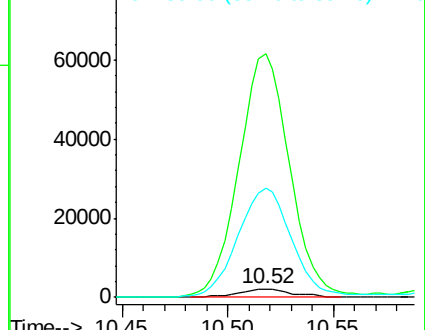
39 1303.8 35.4 53.0#



Abundance Ion 69.00 (68.70 to 69.70): VN064428.D (-2679) (-)

Ion 41.00 (40.70 to 41.70): VN064428.D (-2679) (-)

Ion 39.00 (38.70 to 39.70): VN064428.D (-2679) (-)



#57

1,3-Dichloropropane

Concen: 1.114 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.06 min

Lab File: VN064591.D

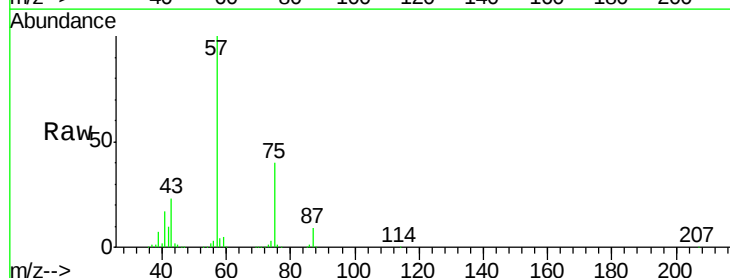
Acq: 12 Nov 2020 19:15

Tgt Ion: 76 Resp: 7131

Ion Ratio Lower Upper

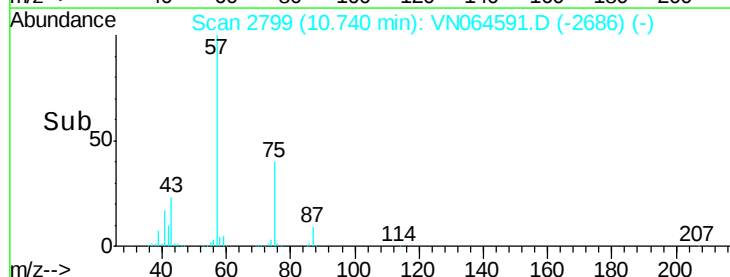
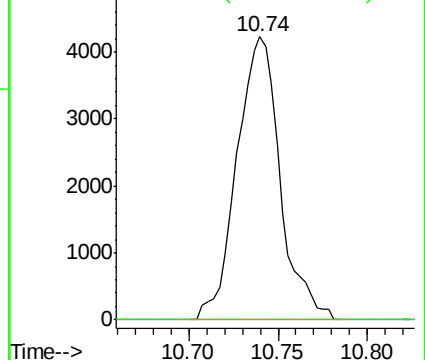
76 100

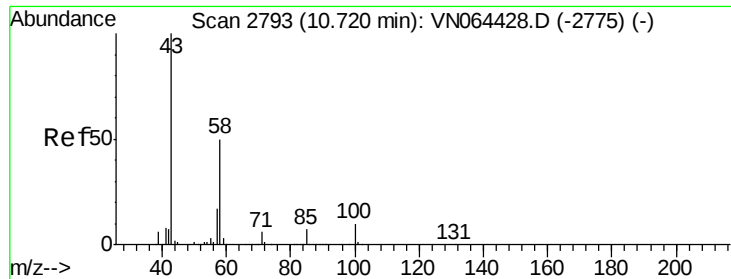
78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN064428.D (-2762) (-)

Ion 77.90 (77.60 to 78.60): VN064428.D (-2762) (-)

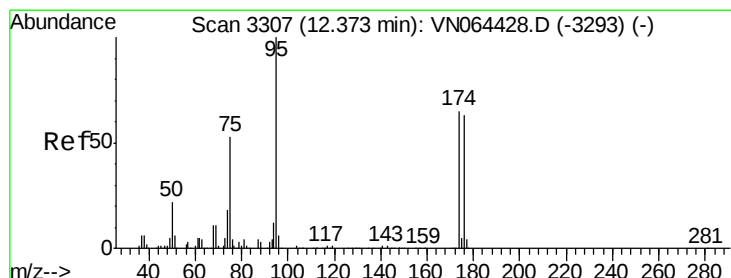
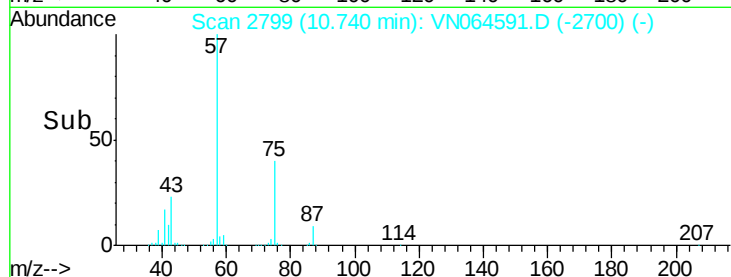
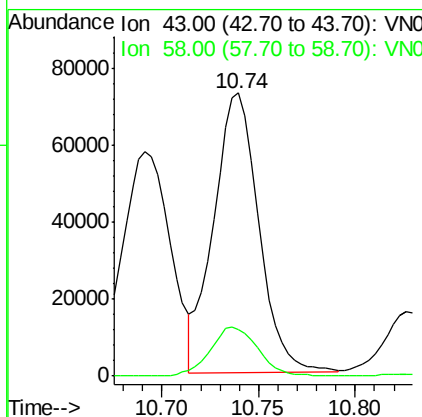
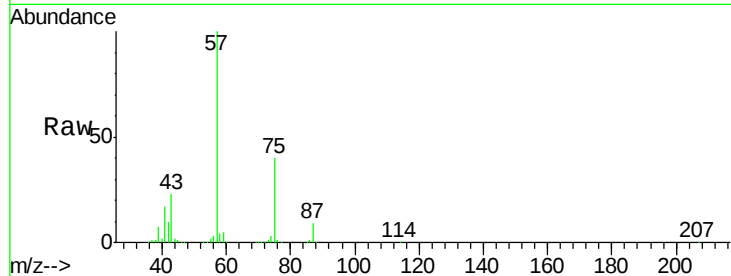




#59
2-Hexanone
Concen: 32.787 ug/l
RT: 10.74 min Scan# 2799
Delta R.T. 0.02 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

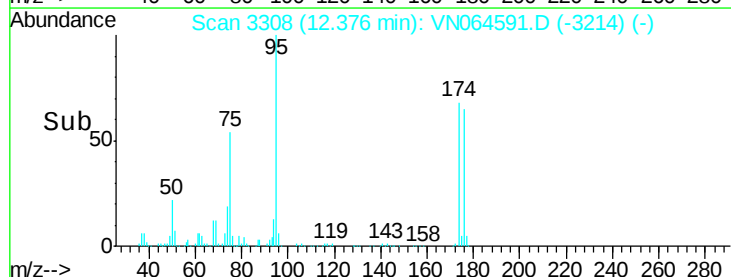
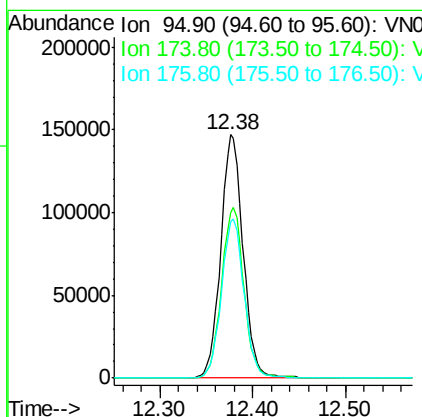
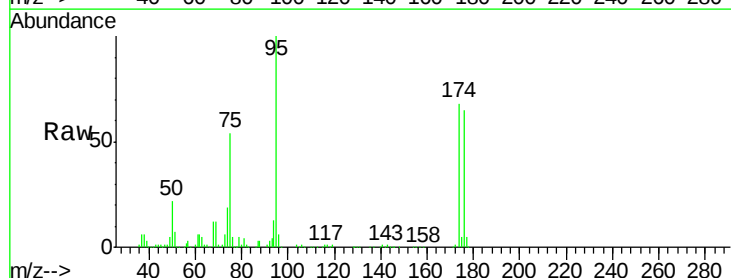
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-BOTTOM

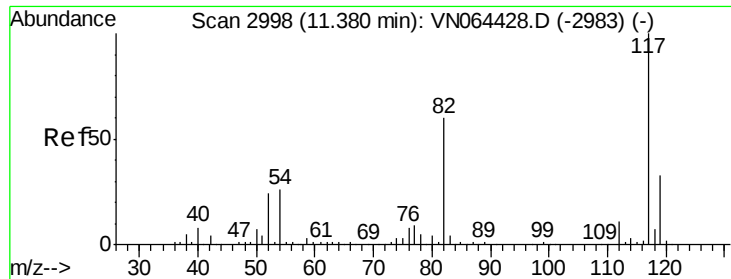
Tot Ion: 43 Resp: 118196
Ion Ratio Lower Upper
43 100
58 18.9 24.7 74.1#



#62
4-Bromofluorobenzene
Concen: 49.743 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion: 95 Resp: 245875
Ion Ratio Lower Upper
95 100
174 70.4 0.0 132.6
176 66.0 0.0 129.2

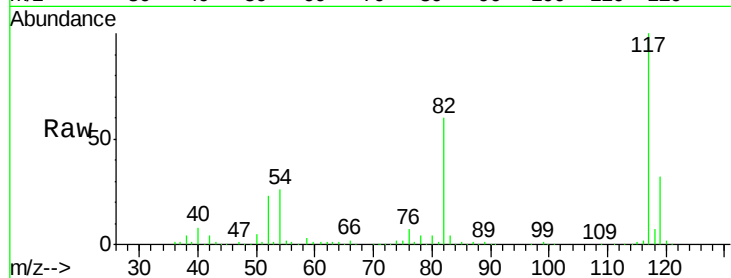




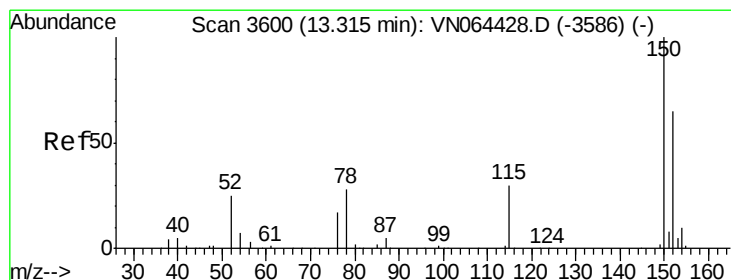
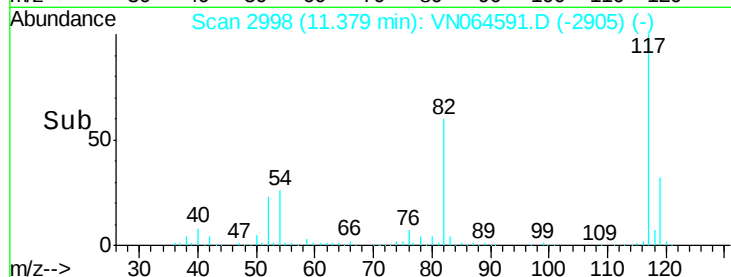
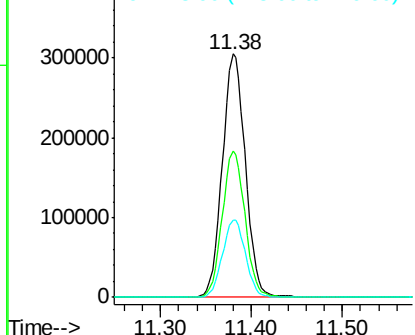
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. -0.00 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-BOTTOM

Tot Ion:117 Resp: 538076
Ion Ratio Lower Upper
117 100
82 60.1 48.1 72.1
119 31.7 26.2 39.4

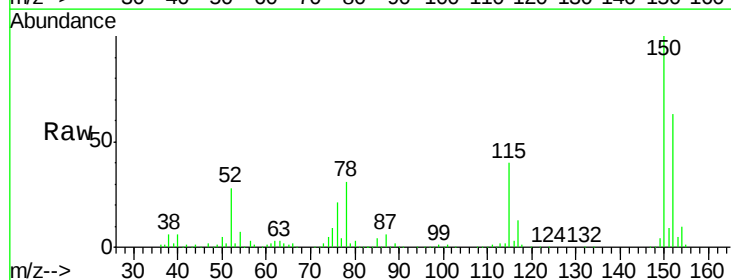


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

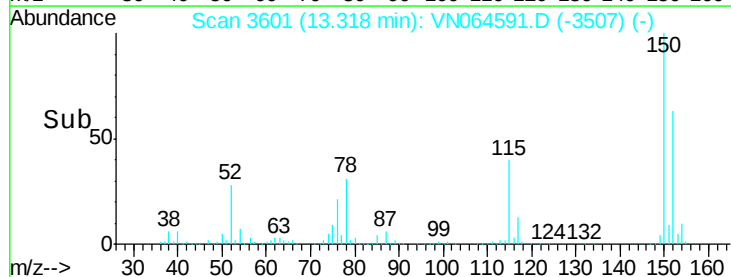
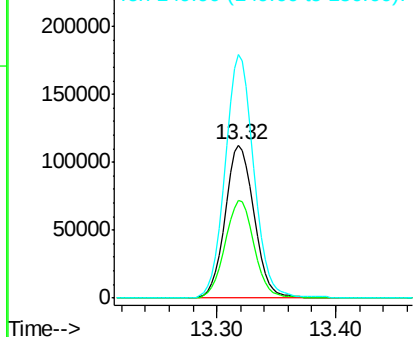


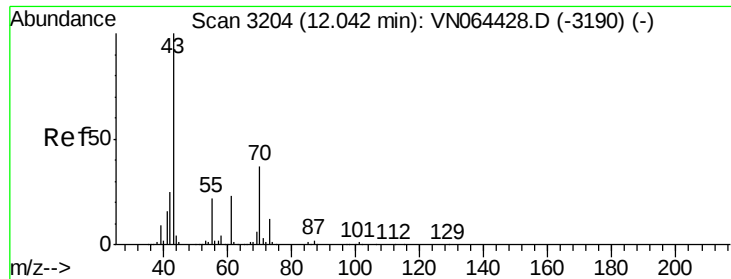
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.32 min Scan# 3601
Delta R.T. 0.00 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion:152 Resp: 190737
Ion Ratio Lower Upper
152 100
115 64.3 32.0 96.0
150 156.5 0.0 353.8



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

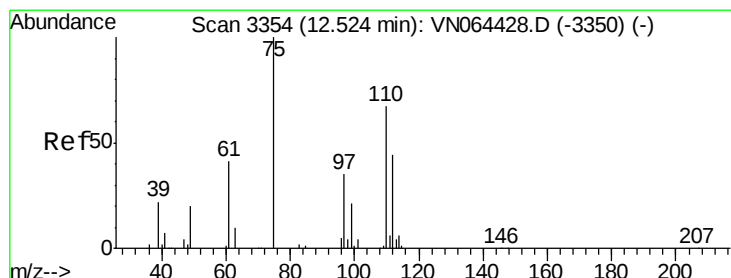
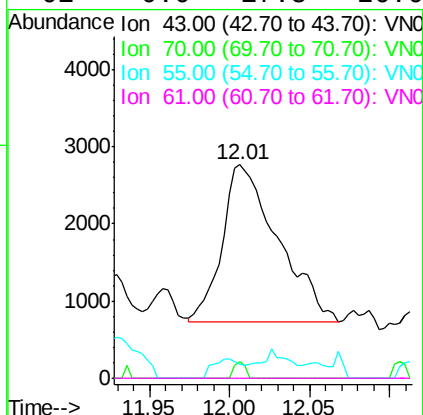
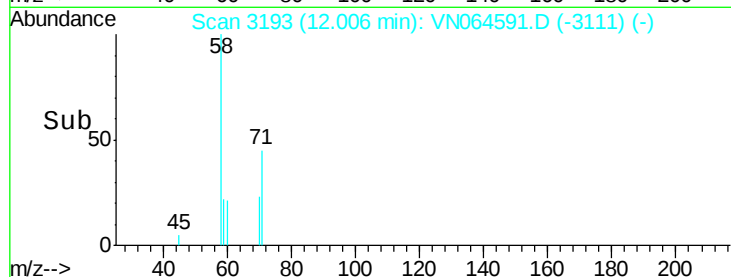
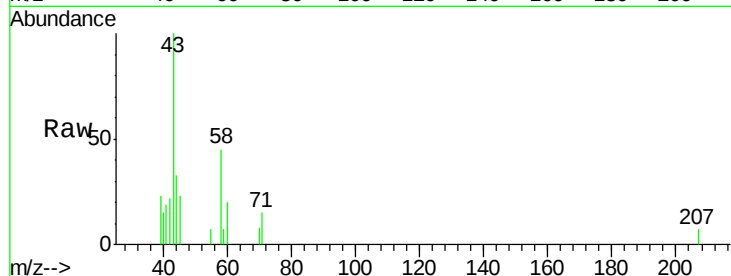




#74
N-amvl acetate
Concen: 1.861 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

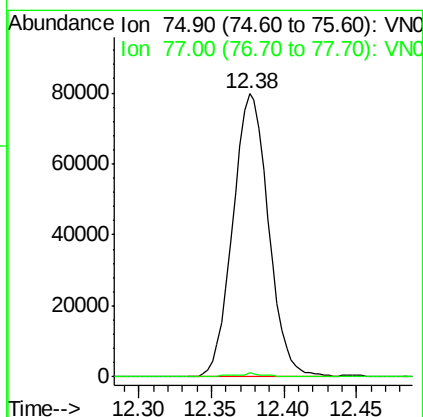
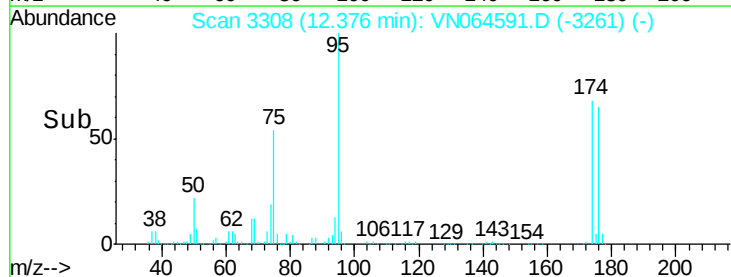
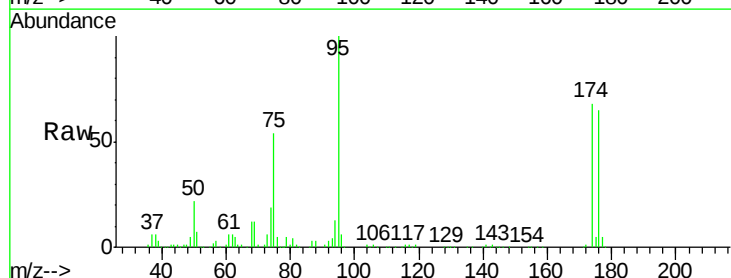
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-BOTTOM

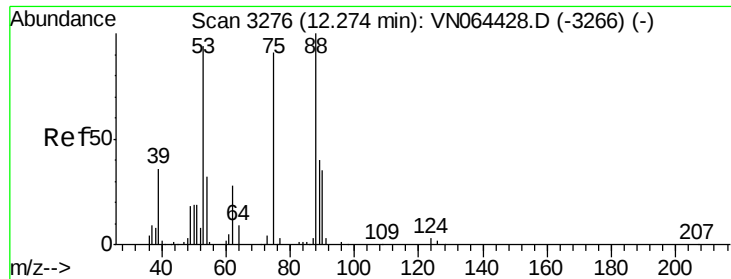
Tot Ion: 43 Resp: 4871
Ion Ratio Lower Upper
43 100
70 2.2 29.6 44.4#
55 6.4 18.4 27.6#
61 0.0 17.8 26.6#



#76
1,2,3-Trichloropropane
Concen: 29.510 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064591.D
Acq: 12 Nov 2020 19:15

Tgt Ion: 75 Resp: 136377
Ion Ratio Lower Upper
75 100
77 1.0 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.395 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064591.D

Acq: 12 Nov 2020 19:15

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-BOTTOM

Tot Ion: 75 Resp: 136377

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#

