

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064590.D
 Acq On : 12 Nov 2020 18:51
 Operator : JC/MD
 Sample : L4701-19
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

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

Quant Time: Nov 13 02:54:08 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	223462	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	480060	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	522598	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	183082	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	228863	58.80	ug/l	0.00
Spiked Amount			Recovery	=	117.60%	
35) Dibromofluoromethane	7.55	113	168800	51.64	ug/l	0.00
Spiked Amount			Recovery	=	103.28%	
50) Toluene-d8	10.06	98	627707	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
62) 4-Bromofluorobenzene	12.38	95	231084	48.37	ug/l	0.00
Spiked Amount			Recovery	=	96.74%	

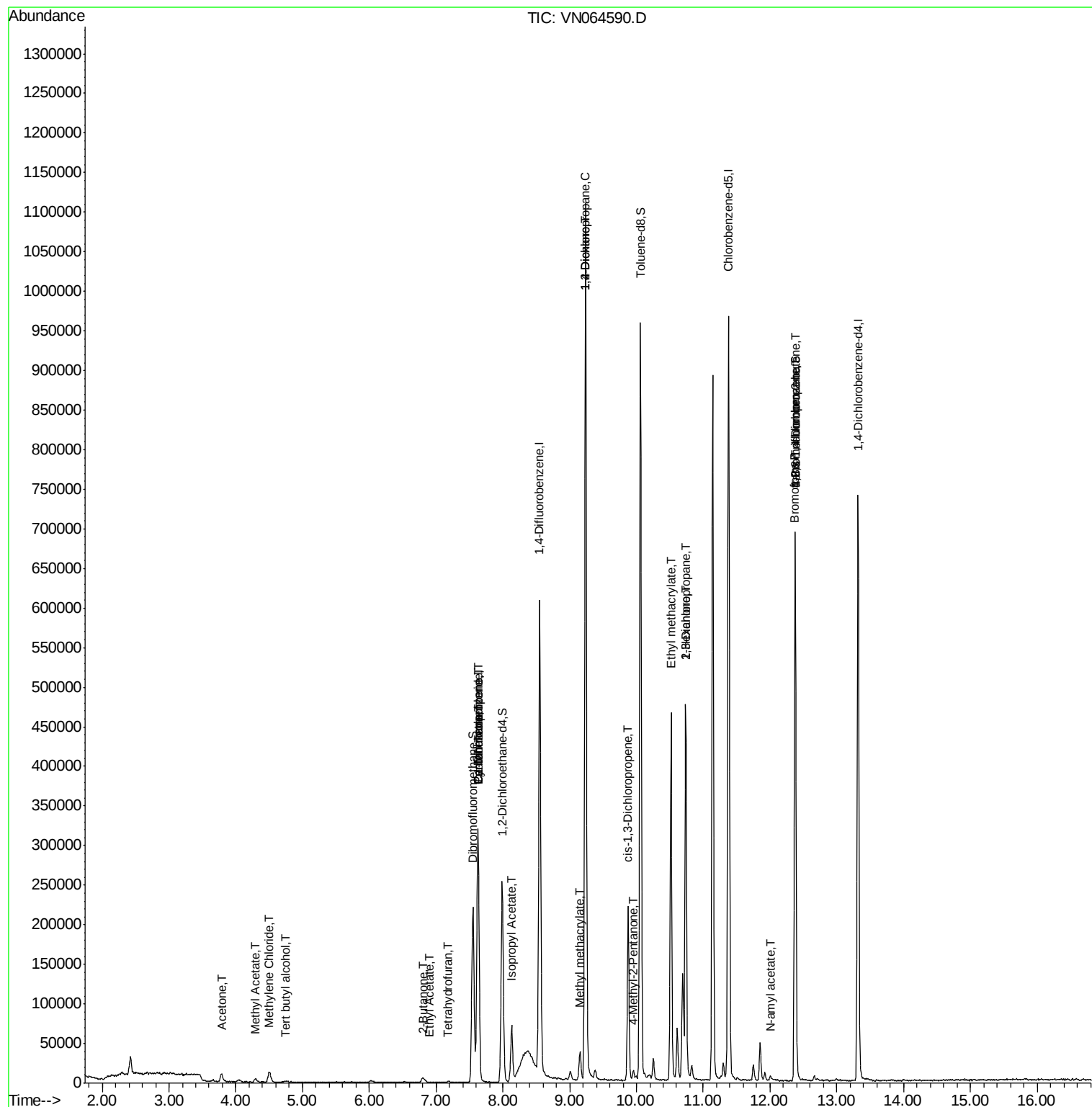
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	380	0.885	ug/l #	71
16) Acetone	3.79	43	17197	11.599	ug/l	100
18) Methyl Acetate	4.29	43	6495	2.228	ug/l #	86
20) Methylene Chloride	4.50	84	8521	2.897	ug/l	88
25) 2-Butanone	6.80	43	7023	3.718	ug/l	93
29) Tetrahydrofuran	7.17	42	495	0.427	ug/l #	74
31) Cyclohexane	7.62	56	6380	1.348	ug/l #	22
36) 1,1-Dichloropropene	7.63	75	22597	4.456	ug/l #	52
37) Ethyl Acetate	6.91	43	340	0.827	ug/l #	78
38) Carbon Tetrachloride	7.63	117	26949	4.972	ug/l #	17
43) Isopropyl Acetate	8.13	43	83412	10.149	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1507	0.379	ug/l #	45
48) Methyl methacrylate	9.15	41	7007	1.690	ug/l #	15
49) 1,4-Dioxane	9.23	88	219	4.009	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	6337	1.322	ug/l #	83
54) cis-1,3-Dichloropropene	9.87	75	35155	5.510	ug/l #	67
56) Ethyl methacrylate	10.52	69	3232	2.375	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4403	0.712	ug/l #	42
59) 2-Hexanone	10.74	43	75492	23.032	ug/l #	55
71) Bromoform	12.36	173	307	1.368	ug/l #	1
74) N-amyl acetate	12.01	43	4460	1.831	ug/l #	54
76) 1,2,3-Trichloropropane	12.38	75	130477	29.414	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	130477	82.126	ug/l #	8

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

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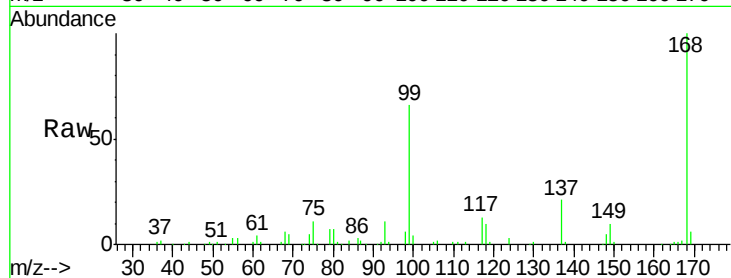




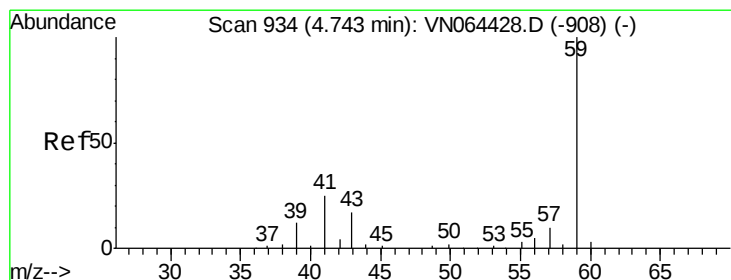
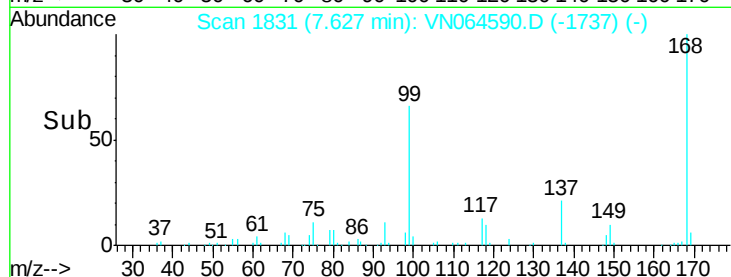
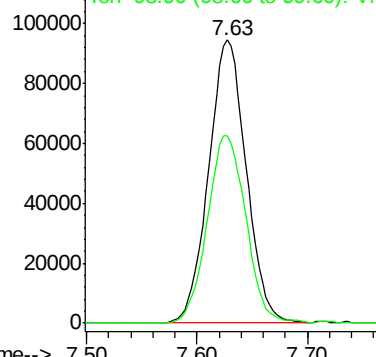
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. 0.00 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

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

Tot Ion:168 Resp: 223462
Ion Ratio Lower Upper
168 100
99 66.4 53.4 80.2

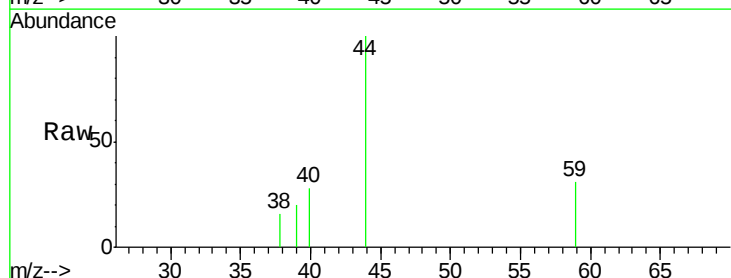


Abundance Ion 167.90 (167.60 to 168.60): V
Ion 98.90 (98.60 to 99.60): VNO

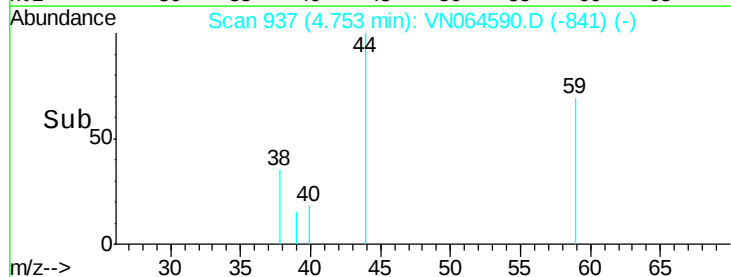
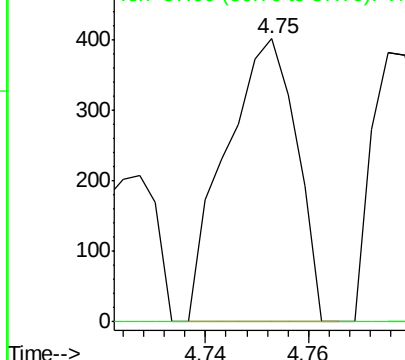


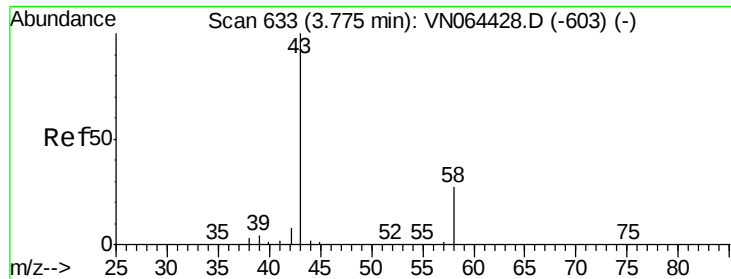
#11
Tert butyl alcohol
Concen: 0.885 ug/l
RT: 4.75 min Scan# 937
Delta R.T. 0.01 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

Tgt Ion: 59 Resp: 380
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO
Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 11.599 ug/l

RT: 3.79 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

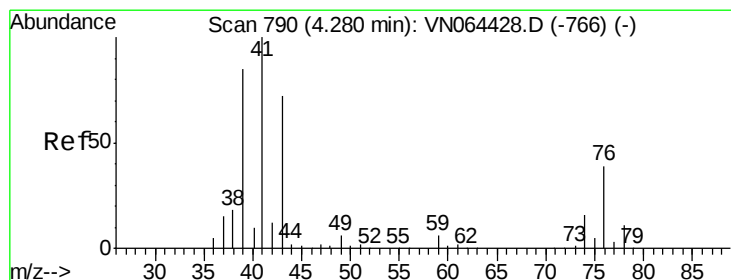
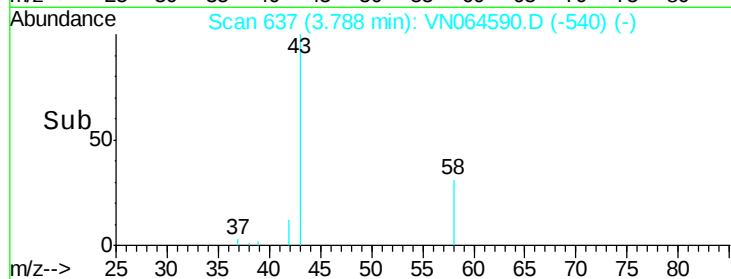
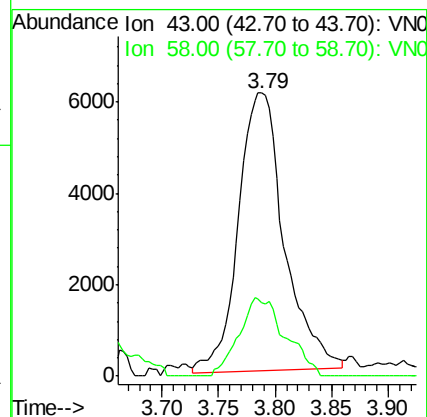
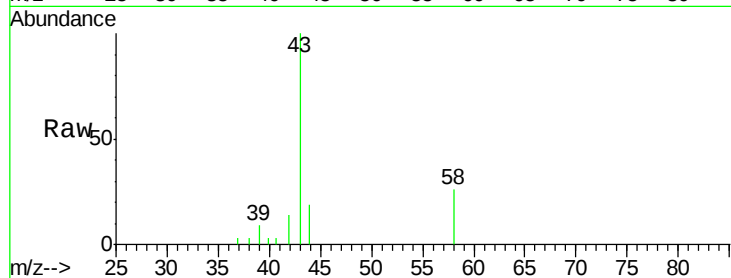
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Tot Ion: 43 Resp: 17197

Ion Ratio Lower Upper

43 100

58 26.6 21.4 32.0



#18

Methyl Acetate

Concen: 2.228 ug/l

RT: 4.29 min Scan# 793

Delta R.T. 0.01 min

Lab File: VN064590.D

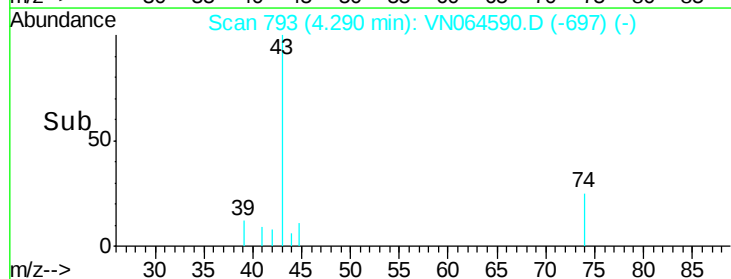
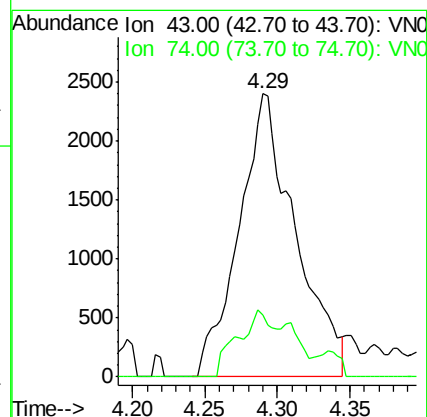
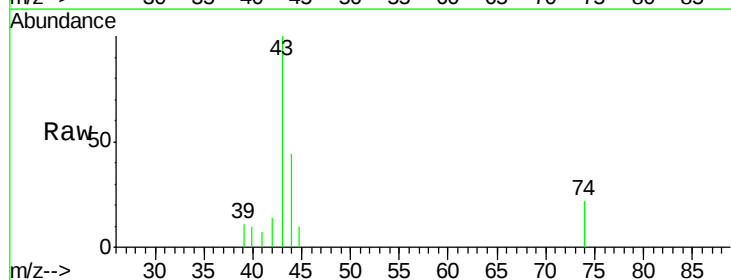
Acq: 12 Nov 2020 18:51

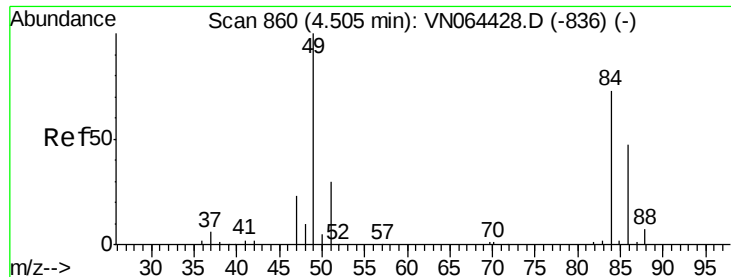
Tgt Ion: 43 Resp: 6495

Ion Ratio Lower Upper

43 100

74 14.7 17.0 25.4#

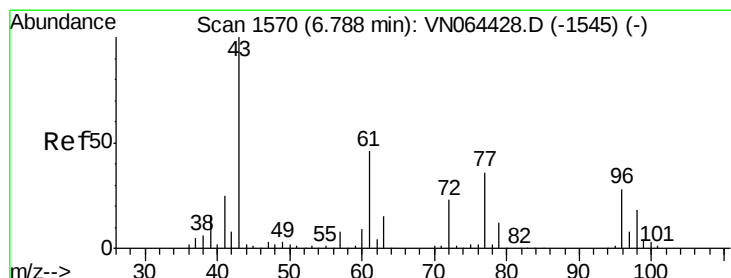
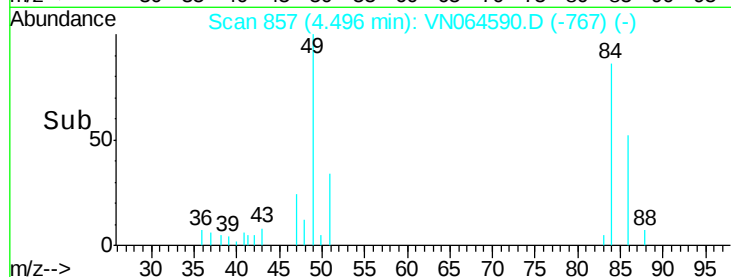
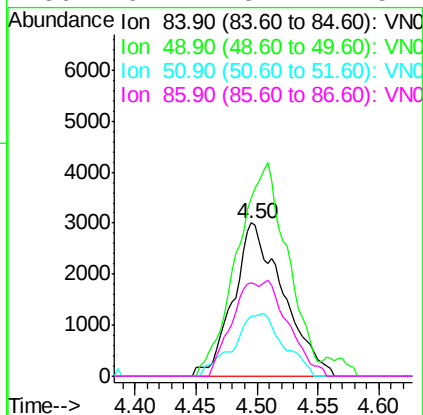
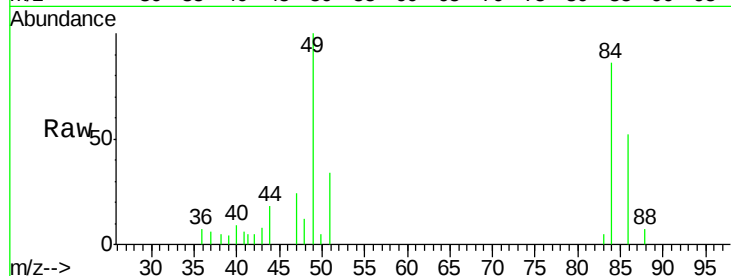




#20
Methvlene Chloride
Concen: 2.897 ug/l
RT: 4.50 min Scan# 857
Delta R.T. -0.01 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

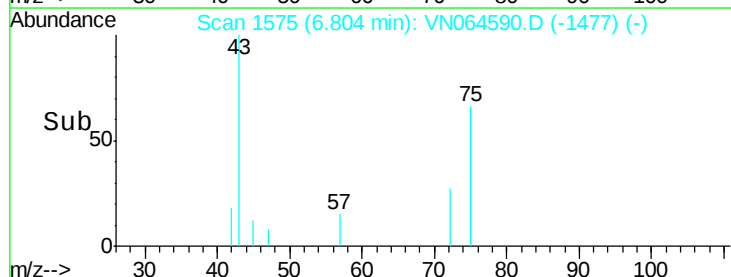
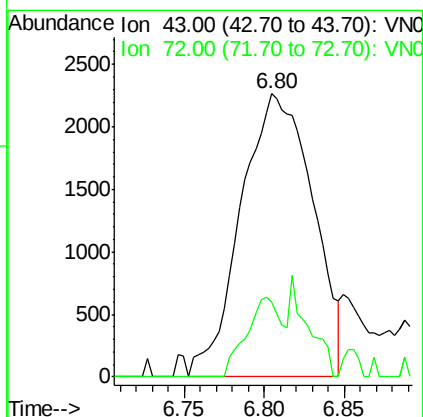
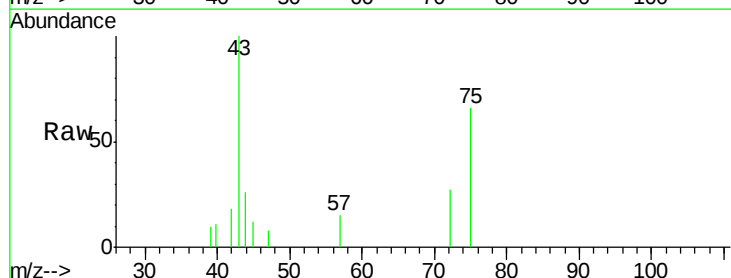
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-TOP

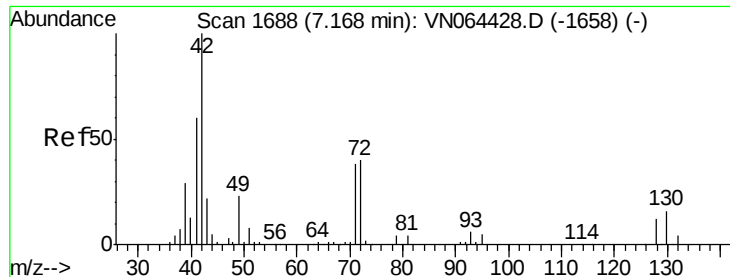
Tot Ion:	84	Resp:	8521
Ion	Ratio	Lower	Upper
84	100		
49	116.6	110.1	165.1
51	39.3	33.6	50.4
86	61.2	52.1	78.1



#25
2-Butanone
Concen: 3.718 ug/l
RT: 6.80 min Scan# 1575
Delta R.T. 0.02 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

Tgt Ion:	43	Resp:	7023
Ion	Ratio	Lower	Upper
43	100		
72	26.5	18.5	27.7





#29

Tetrahydrofuran

Concen: 0.427 ug/l

RT: 7.17 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-TOP

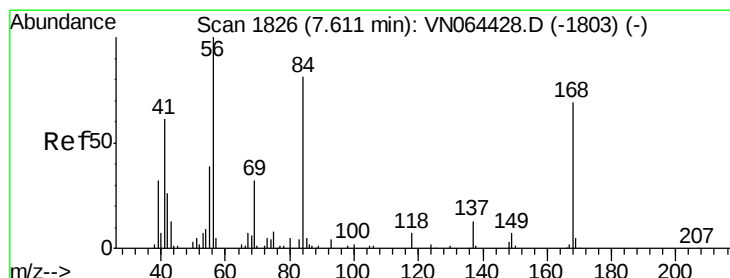
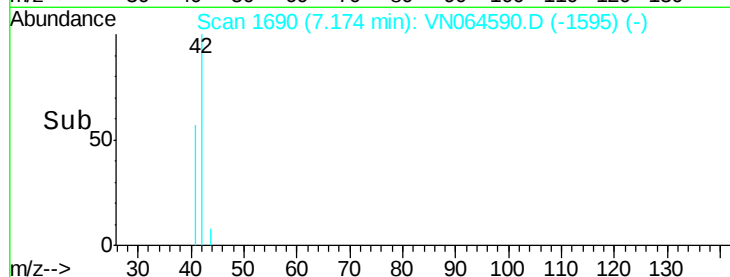
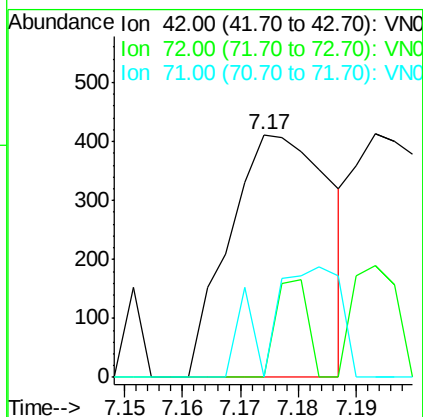
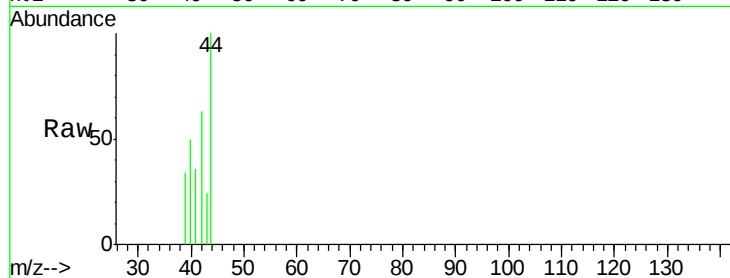
Tot Ion: 42 Resp: 495

Ion Ratio Lower Upper

42 100

72 12.5 31.7 47.5#

71 33.3 29.8 44.6



#31

Cyclohexane

Concen: 1.348 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

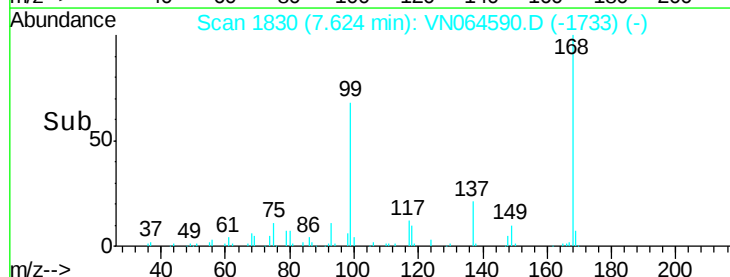
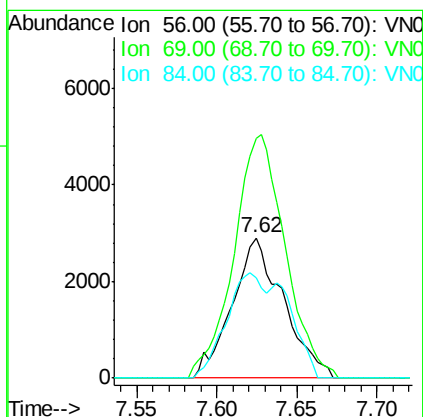
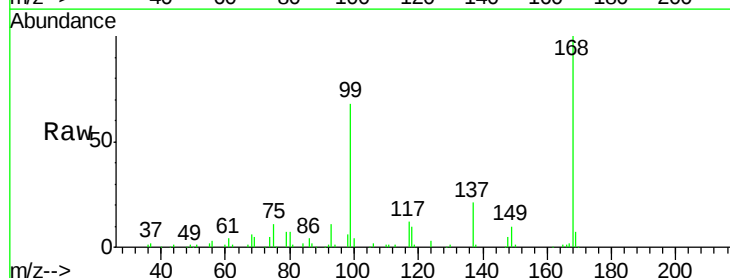
Tgt Ion: 56 Resp: 6380

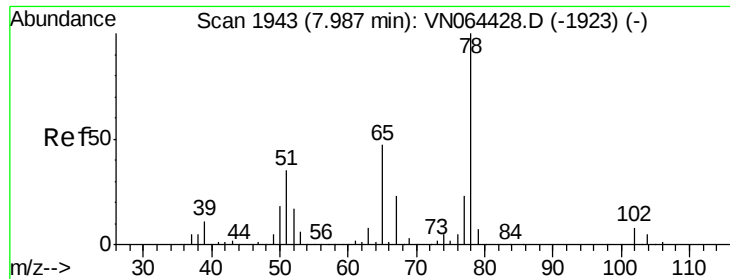
Ion Ratio Lower Upper

56 100

69 170.7 25.6 38.4#

84 71.8 63.0 94.6





#33

1,2-Dichloroethane-d4

Concen: 58.798 ug/l

RT: 7.99 min Scan# 1944

Delta R.T. 0.00 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

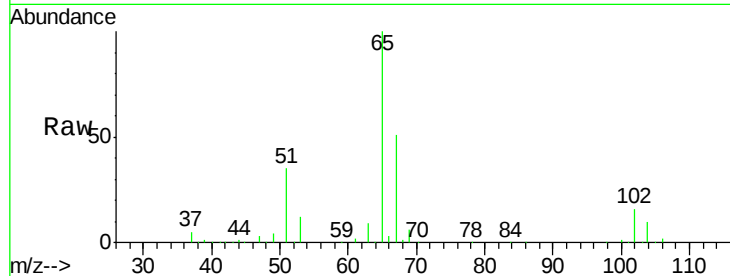
TRANSFORMER-5-3-TOP

Tot Ion: 65 Resp: 228863

Ion Ratio Lower Upper

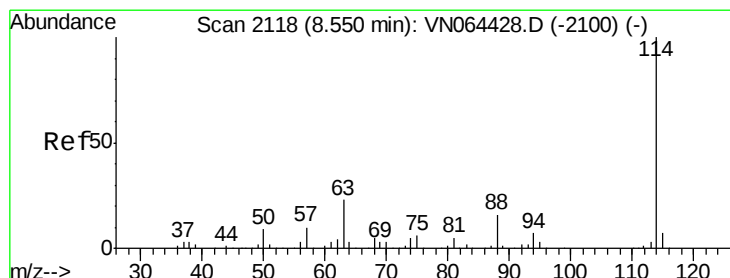
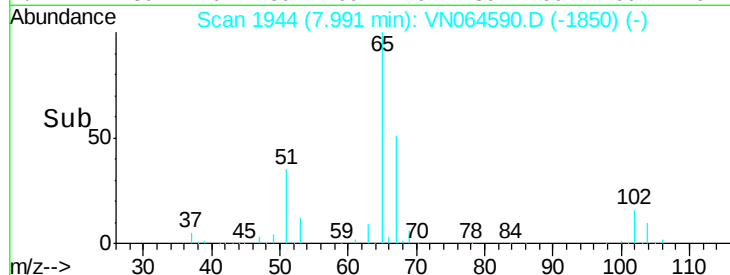
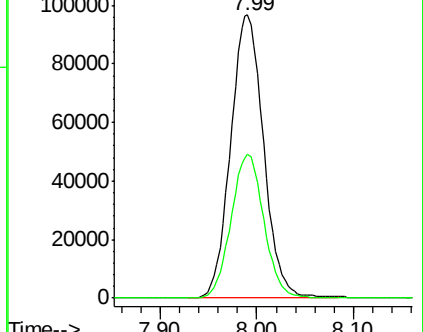
65 100

67 50.5 0.0 101.6



Abundance Ion 64.90 (64.60 to 65.60): VN064428.D (-1923) (-)

Ion 66.90 (66.60 to 67.60): VN064428.D (-1923) (-)



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

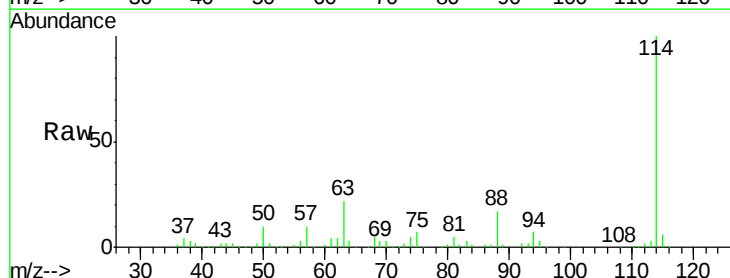
Tgt Ion: 114 Resp: 480060

Ion Ratio Lower Upper

114 100

63 22.4 0.0 45.6

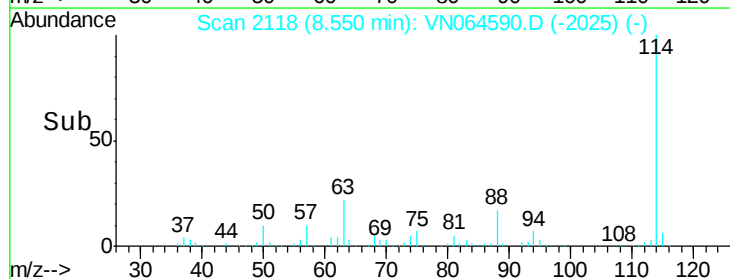
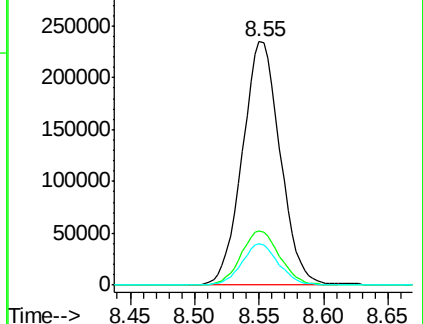
88 16.8 0.0 32.8

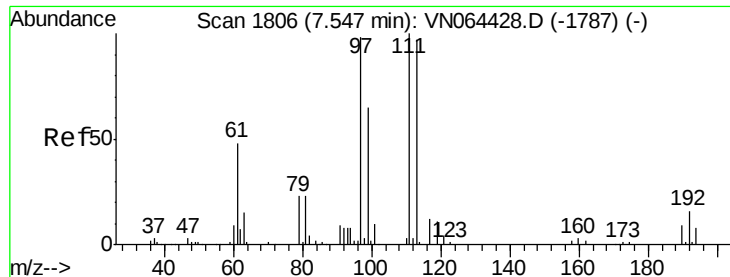


Abundance Ion 113.90 (113.60 to 114.60): VN064428.D (-2100) (-)

Ion 63.00 (62.70 to 63.70): VN064428.D (-2100) (-)

Ion 87.90 (87.60 to 88.60): VN064428.D (-2100) (-)

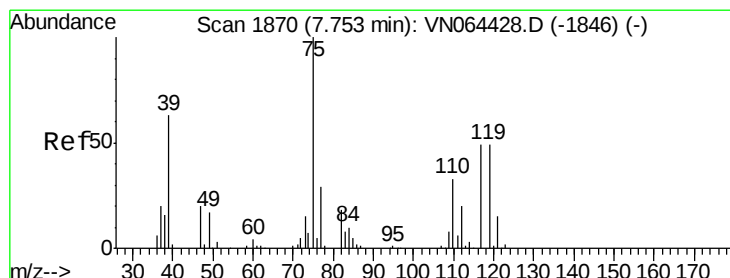
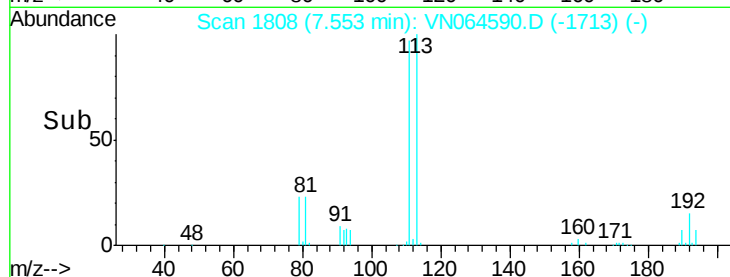
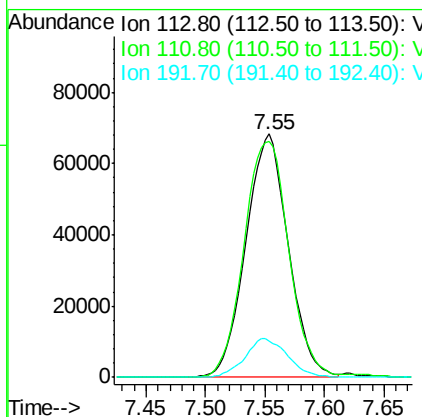
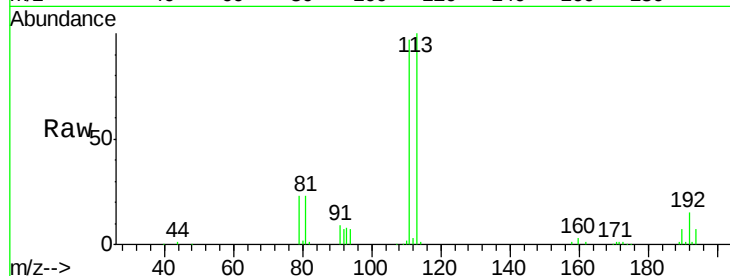




#35
Dibromofluoromethane
Concen: 51.644 ug/l
RT: 7.55 min Scan# 1808
Delta R.T. 0.01 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

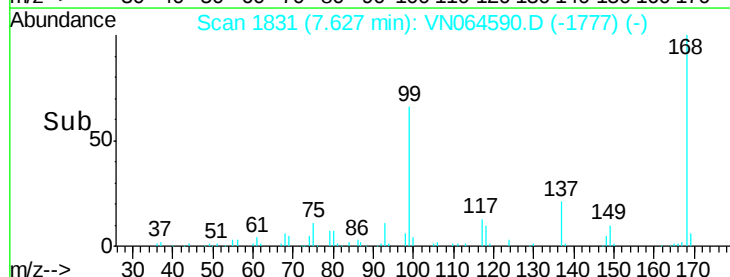
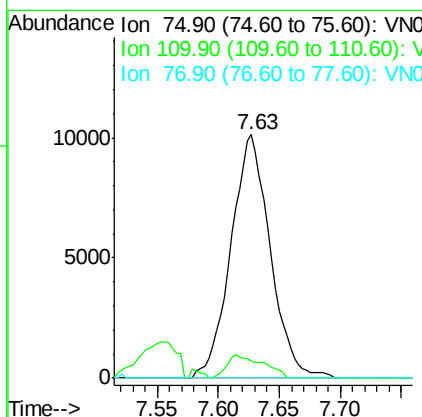
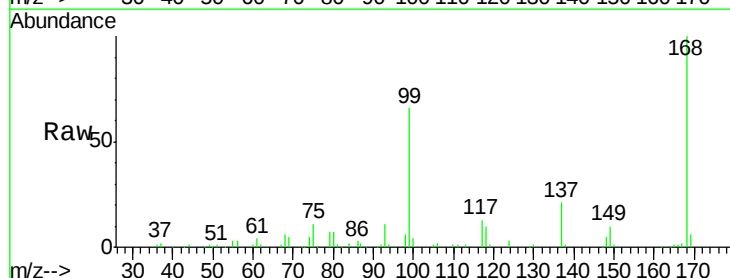
Instrument :
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TRANSFORMER-5-3-TOP

Tot Ion:113 Resp: 168800
Ion Ratio Lower Upper
113 100
111 102.7 81.1 121.7
192 16.1 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.456 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

Tgt Ion: 75 Resp: 22597
Ion Ratio Lower Upper
75 100
110 8.8 16.0 48.0#
77 0.0 24.0 36.0#

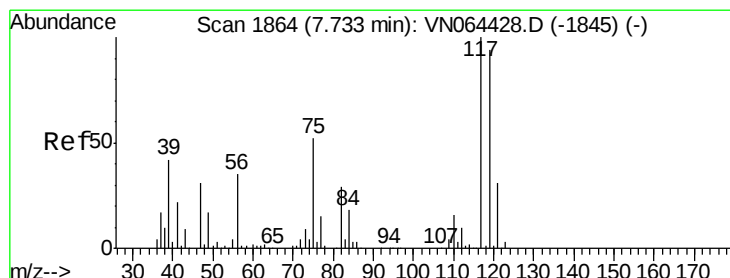
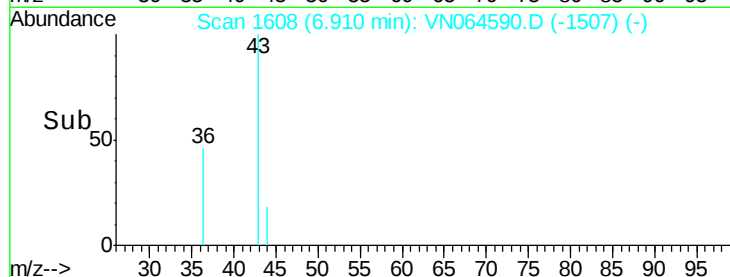
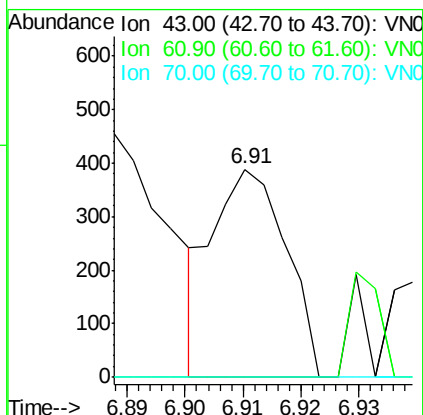
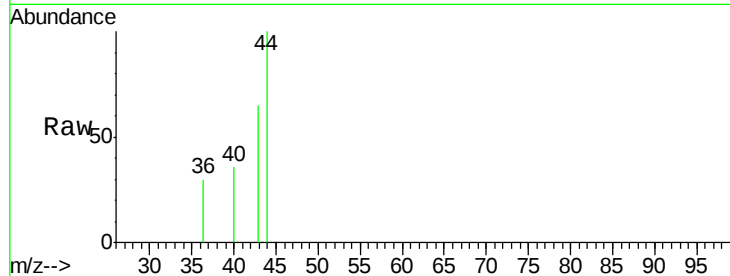




#37
Ethyl Acetate
Concen: 0.827 ug/l
RT: 6.91 min Scan# 1608
Delta R.T. 0.03 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

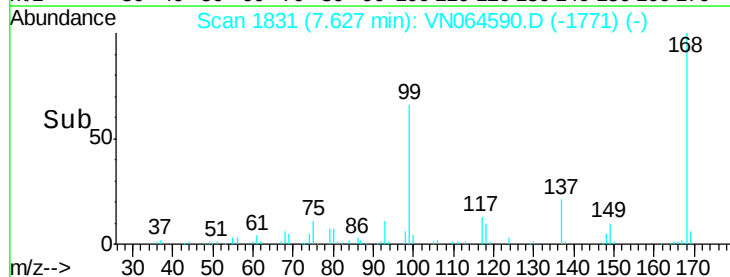
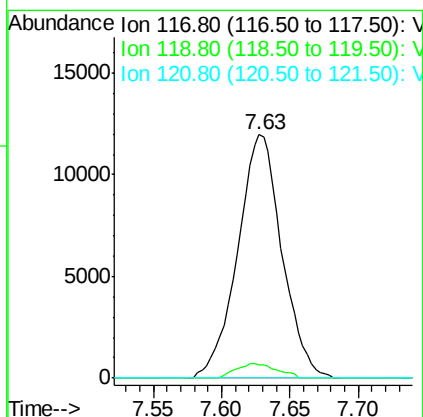
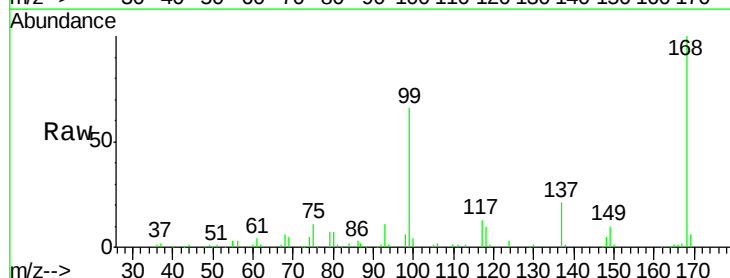
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MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-TOP

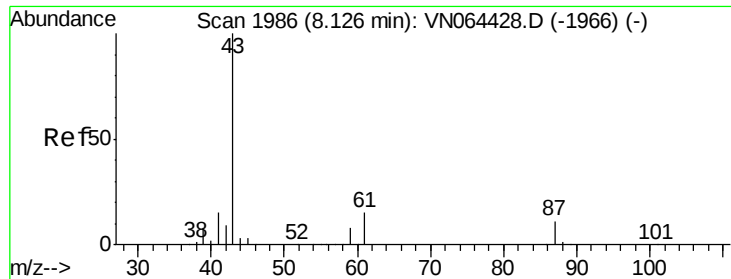
Tot Ion: 43 Resp: 340
Ion Ratio Lower Upper
43 100
61 20.6 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.972 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

Tgt Ion: 117 Resp: 26949
Ion Ratio Lower Upper
117 100
119 5.5 75.5 113.3#
121 0.0 24.4 36.6#



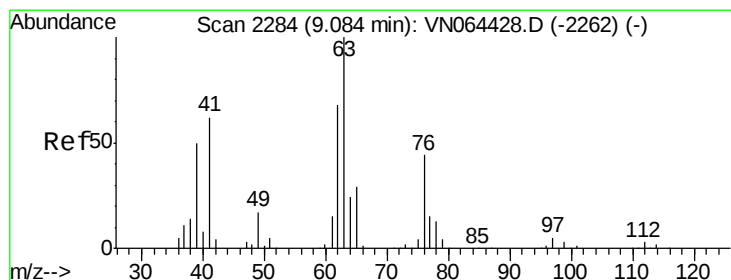
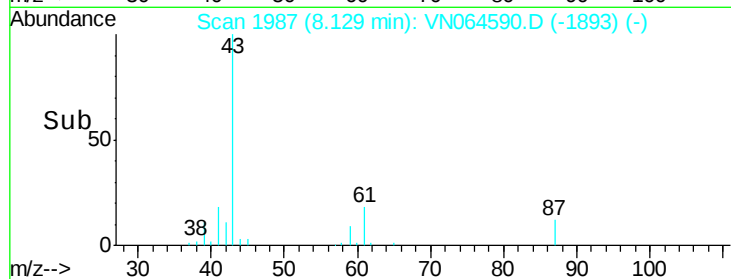
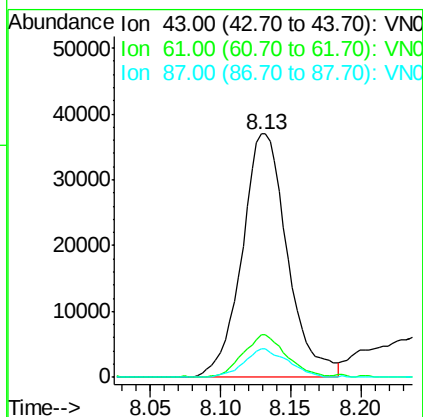
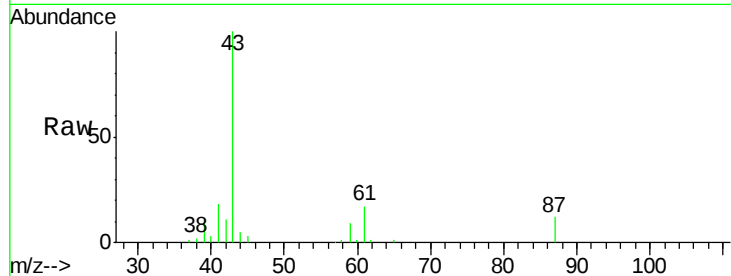


#43

Isopropyl Acetate
 Concen: 10.149 ug/l
 RT: 8.13 min Scan# 1987
 Delta R.T. 0.00 min
 Lab File: VN064590.D
 Acq: 12 Nov 2020 18:51

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

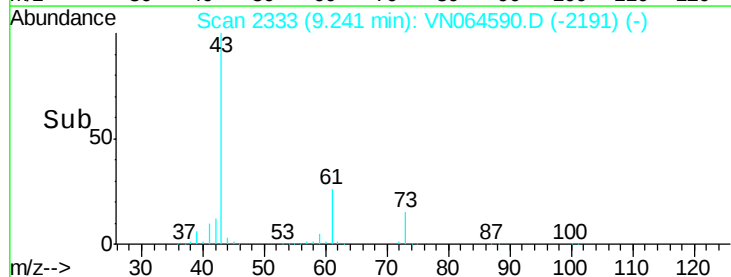
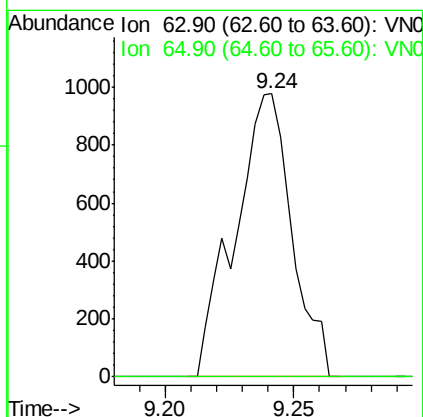
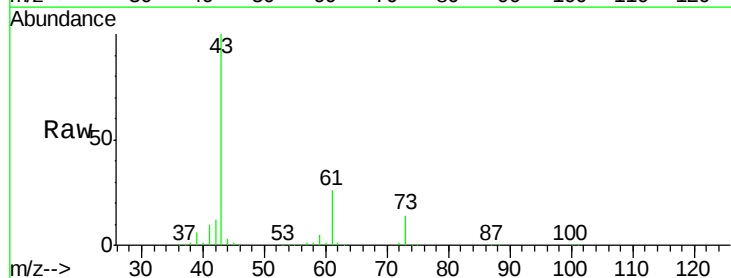
Tot Ion	Ratio	Lower	Upper
43	100		
61	16.9	14.0	21.0
87	11.2	9.1	13.7

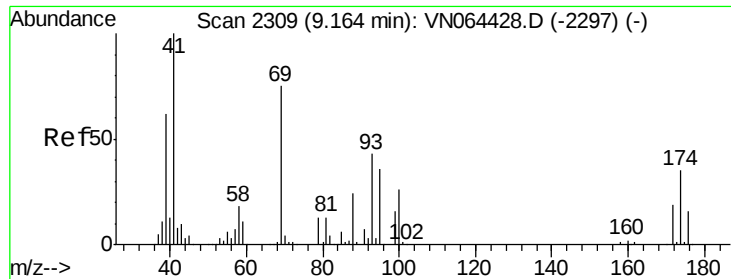


#45

1,2-Dichloropropane
 Concen: 0.379 ug/l
 RT: 9.24 min Scan# 2333
 Delta R.T. 0.16 min
 Lab File: VN064590.D
 Acq: 12 Nov 2020 18:51

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	23.6	35.4#

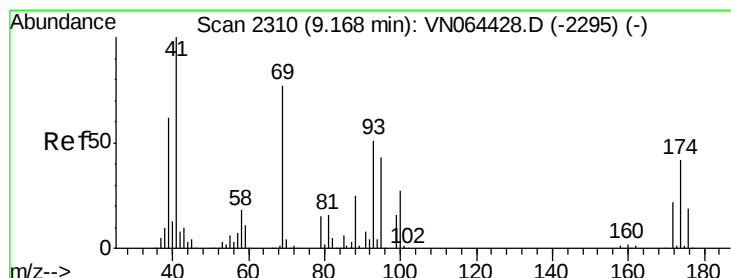
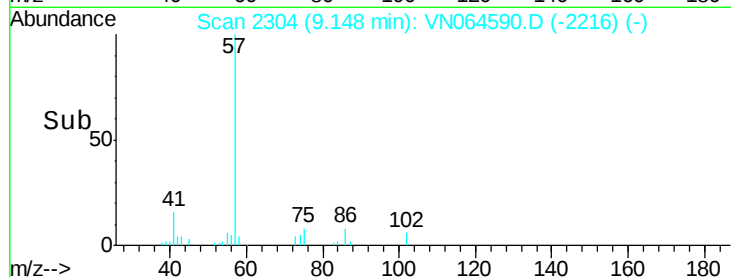
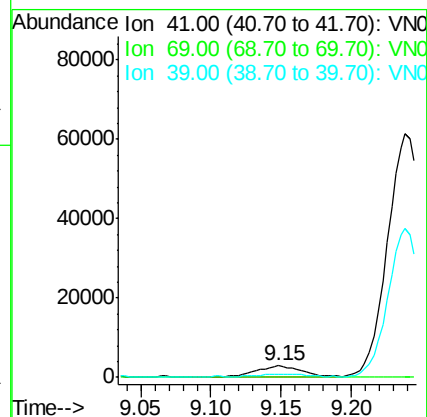
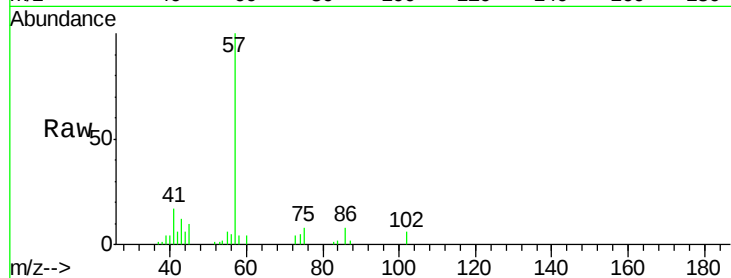




#48
Methyl methacrylate
Concen: 1.690 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

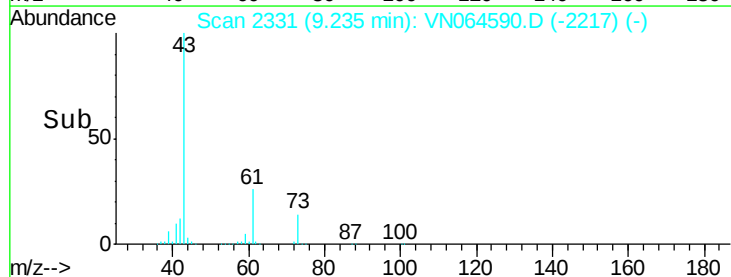
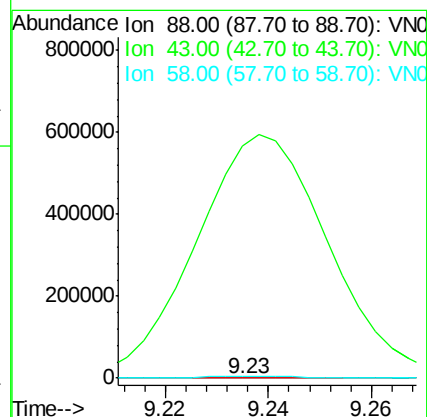
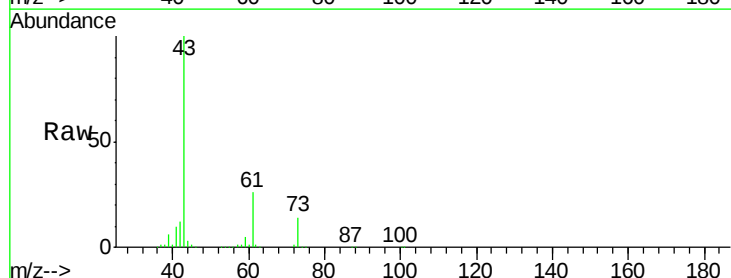
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-TOP

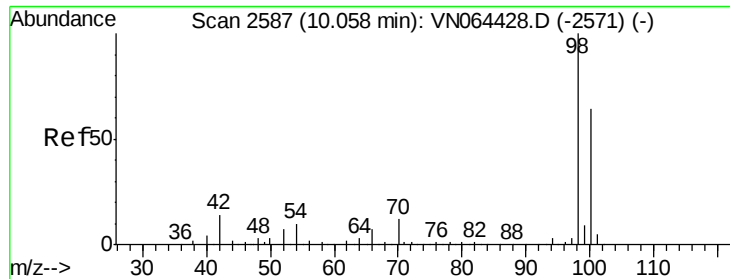
Tot Ion: 41 Resp: 7007
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 51.2 76.8#



#49
1,4-Dioxane
Concen: 4.009 ug/l
RT: 9.23 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

Tgt Ion: 88 Resp: 219
Ion Ratio Lower Upper
88 100
43 492835.6 31.0 46.6#
58 3189.0 58.4 87.6#





#50

Toluene-d8

Concen: 49.688 ug/l

RT: 10.06 min Scan# 2588

Delta R.T. 0.00 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

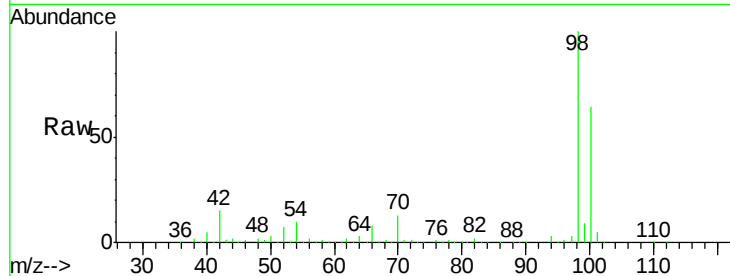
TRANSFORMER-5-3-TOP

Tot Ion: 98 Resp: 627707

Ion Ratio Lower Upper

98 100

100 64.0 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.06

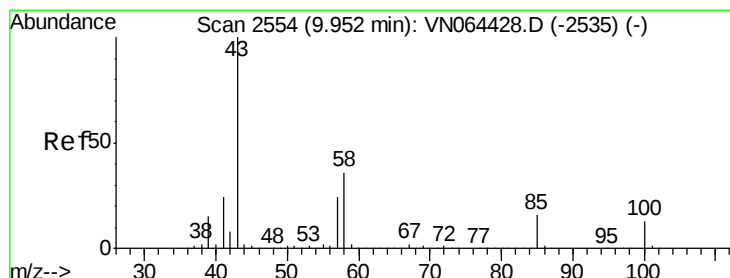
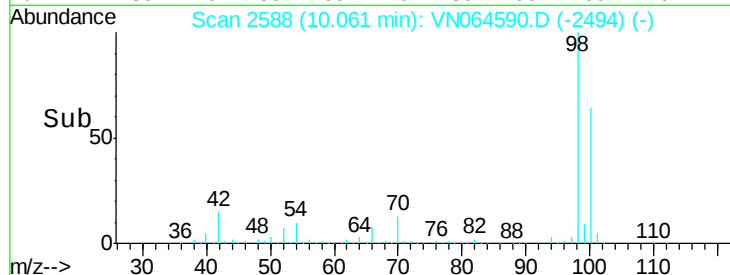
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.322 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN064590.D

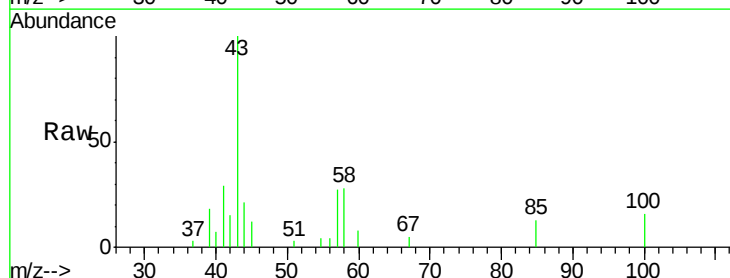
Acq: 12 Nov 2020 18:51

Tgt Ion: 43 Resp: 6337

Ion Ratio Lower Upper

43 100

58 45.6 28.4 42.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

20000

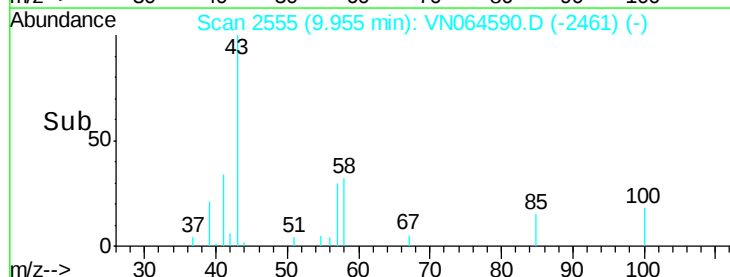
15000

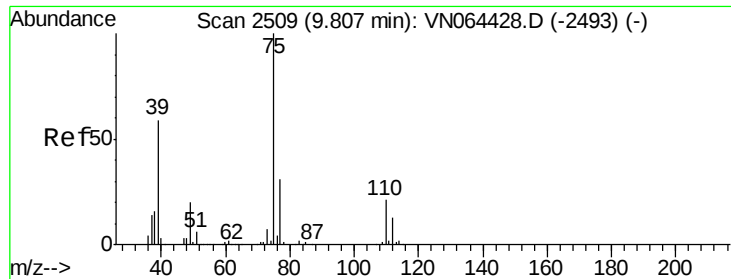
10000

5000

0

Time-->



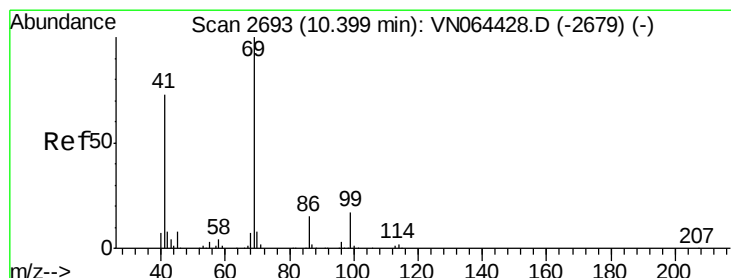
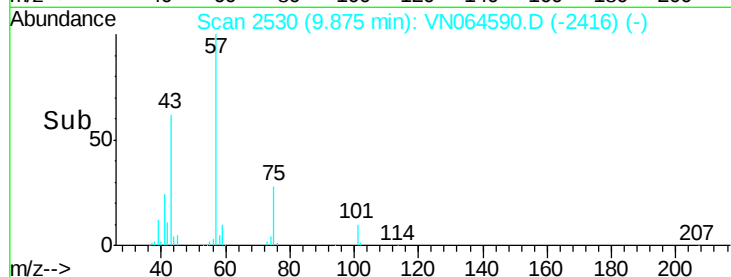
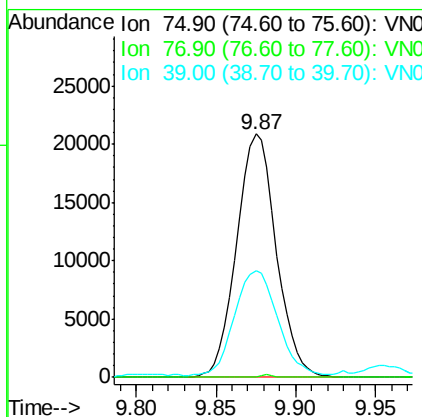
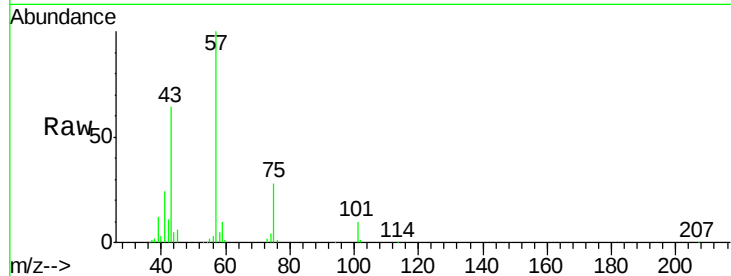


#54

cis-1,3-Dichloropropene
 Concen: 5.510 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064590.D
 Acq: 12 Nov 2020 18:51

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

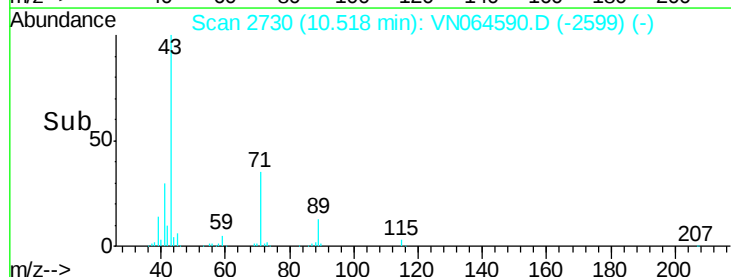
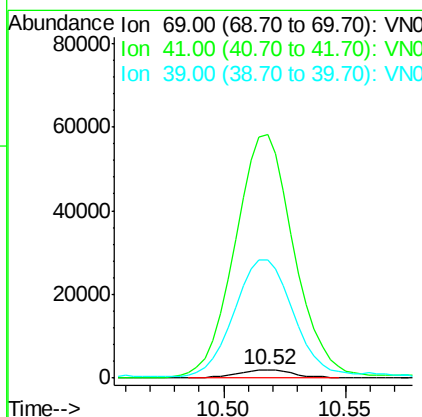
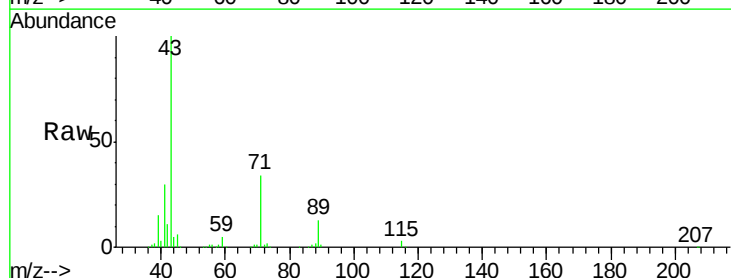
Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.9	37.3#
39	42.9	47.1	70.7#

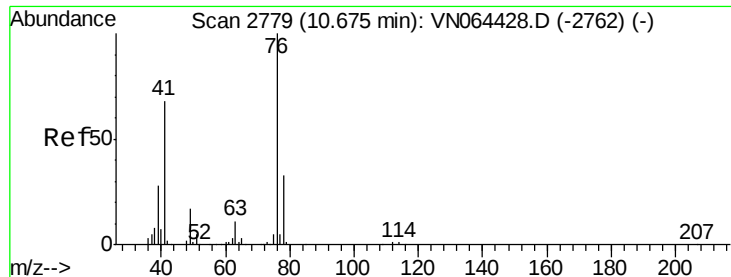


#56

Ethyl methacrylate
 Concen: 2.375 ug/l
 RT: 10.52 min Scan# 2730
 Delta R.T. 0.12 min
 Lab File: VN064590.D
 Acq: 12 Nov 2020 18:51

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3050.1	59.3	88.9#
39	1490.9	35.4	53.0#

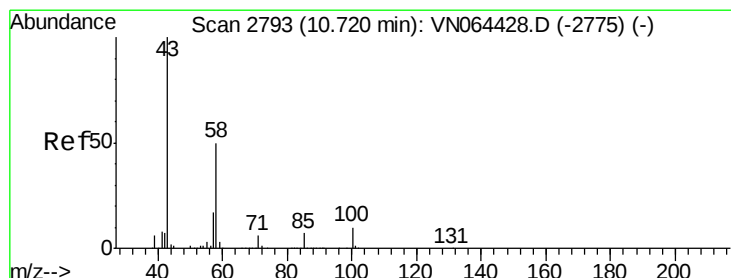
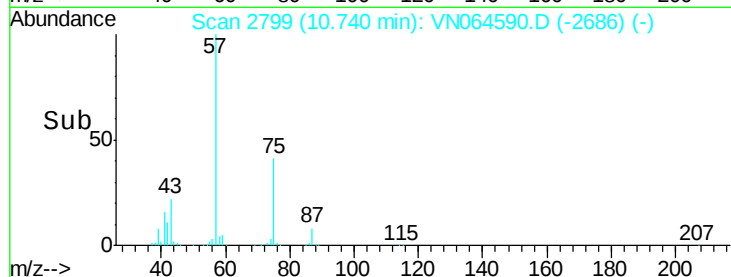
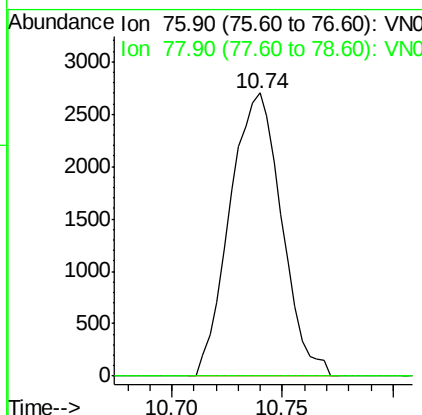
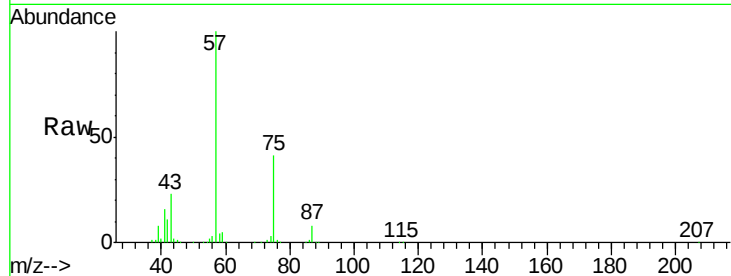




#57
 1,3-Dichloropropane
 Concen: 0.712 ug/l
 RT: 10.74 min Scan# 2799
 Delta R.T. 0.06 min
 Lab File: VN064590.D
 Acq: 12 Nov 2020 18:51

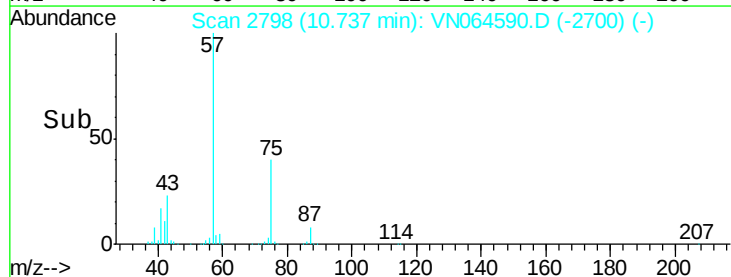
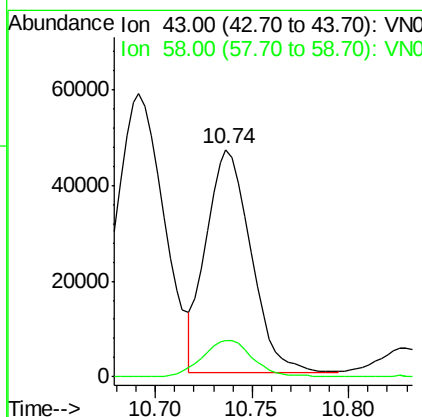
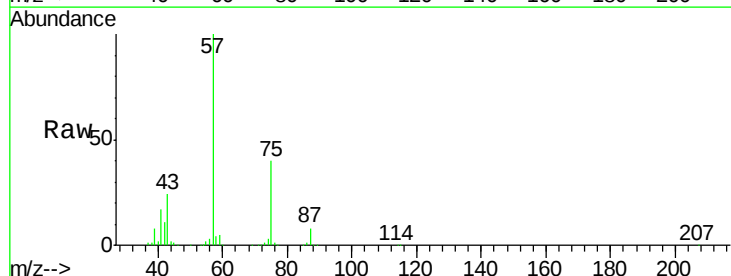
Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-5-3-TOP

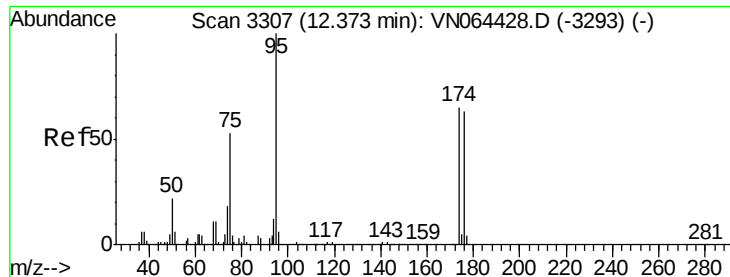
Tot Ion: 76 Resp: 4403
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.6#



#59
 2-Hexanone
 Concen: 23.032 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064590.D
 Acq: 12 Nov 2020 18:51

Tgt Ion: 43 Resp: 75492
 Ion Ratio Lower Upper
 43 100
 58 18.6 24.7 74.1#





#62

4-Bromofluorobenzene

Concen: 48.368 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-TOP

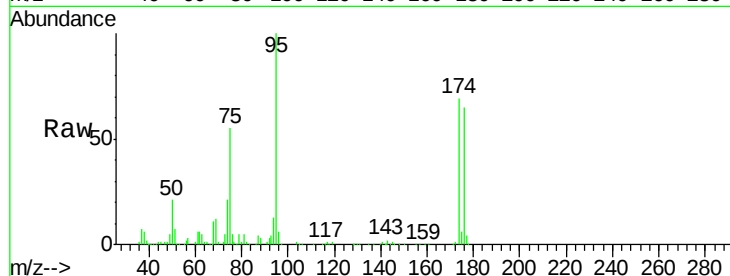
Tot Ion: 95 Resp: 231084

Ion Ratio Lower Upper

95 100

174 71.0 0.0 132.6

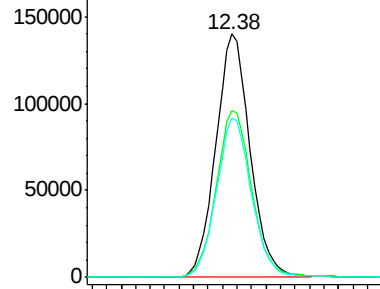
176 67.1 0.0 129.2



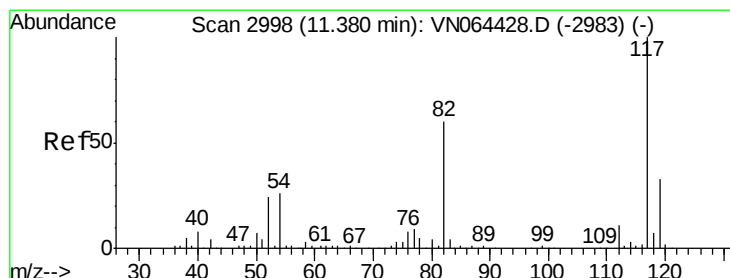
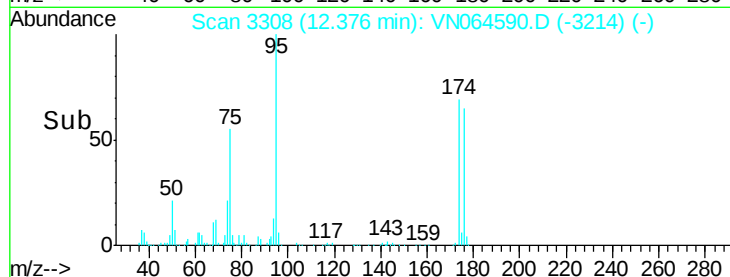
Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

Ion 173.80 (173.50 to 174.50): VN064428.D (-3293) (-)

Ion 175.80 (175.50 to 176.50): VN064428.D (-3293) (-)



Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

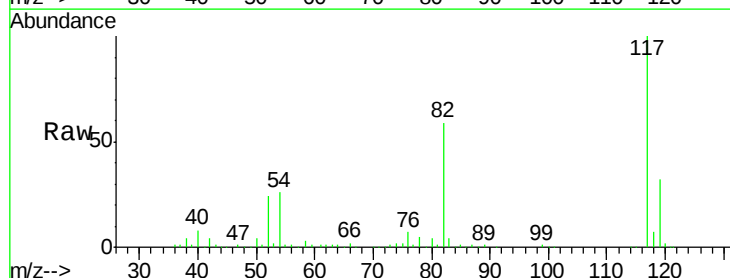
Tgt Ion: 117 Resp: 522598

Ion Ratio Lower Upper

117 100

82 59.5 48.1 72.1

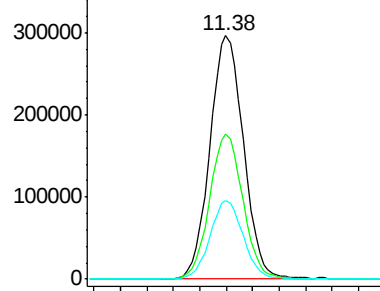
119 32.4 26.2 39.4



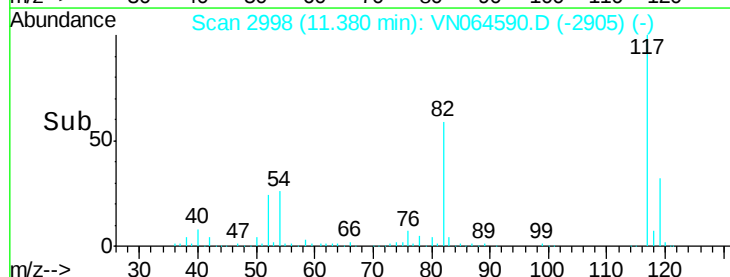
Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

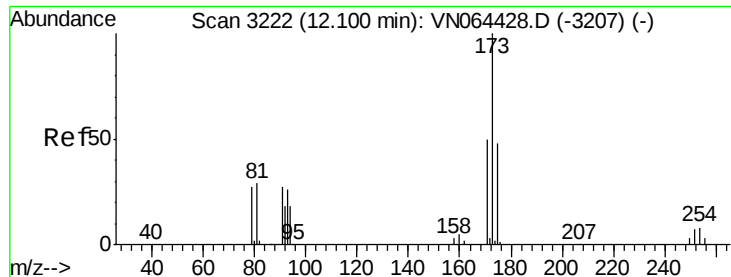
Ion 82.00 (81.70 to 82.70): VN064428.D (-2983) (-)

Ion 118.90 (118.60 to 119.60): VN064428.D (-2983) (-)



Time-->





#71

Bromoform

Concen: 1.368 ug/l

RT: 12.36 min Scan# 3304

Delta R.T. 0.26 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-TOP

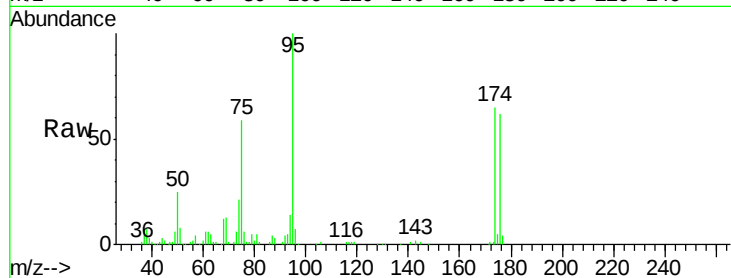
Tot Ion:173 Resp: 307

Ion Ratio Lower Upper

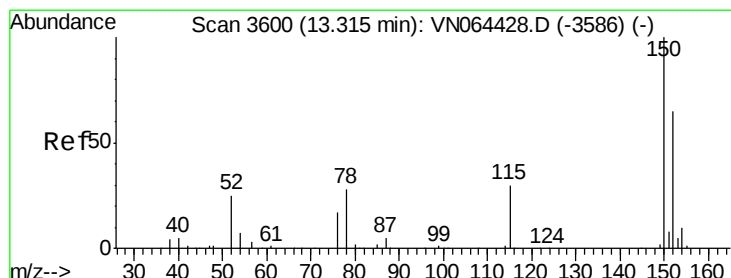
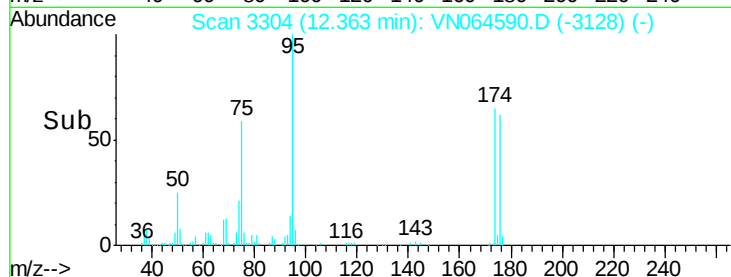
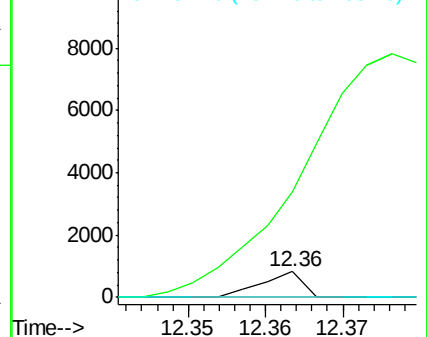
173 100

175 3496.7 23.7 71.1#

254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

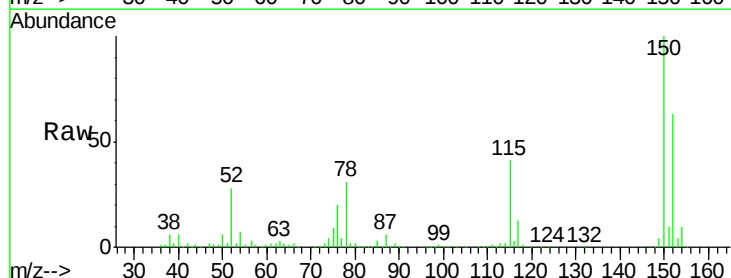
Tgt Ion:152 Resp: 183082

Ion Ratio Lower Upper

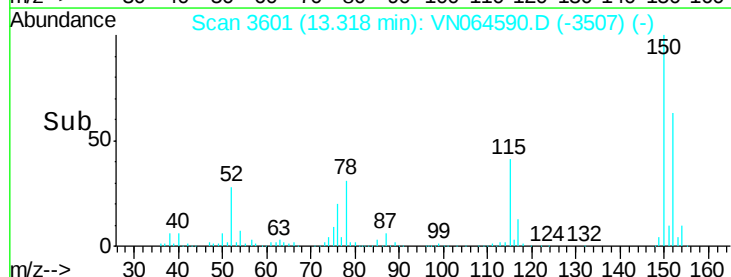
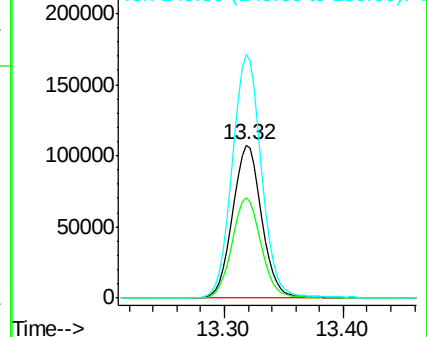
152 100

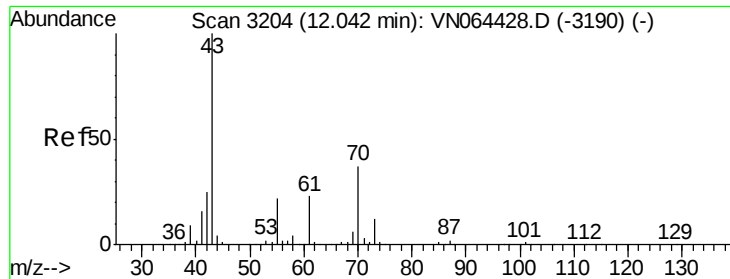
115 65.2 32.0 96.0

150 158.5 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

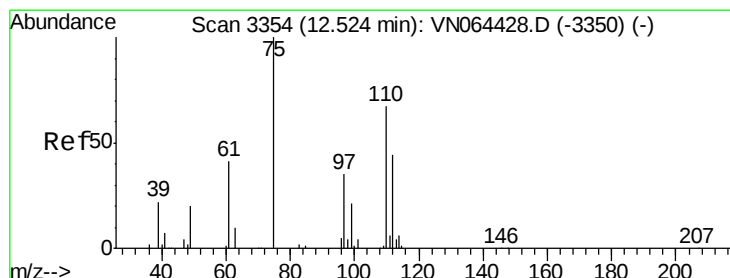
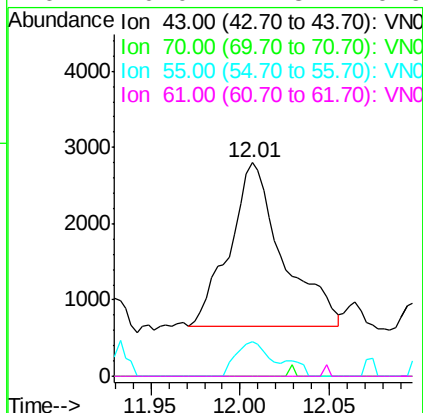
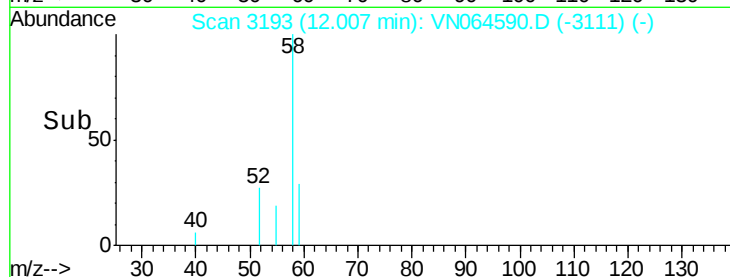
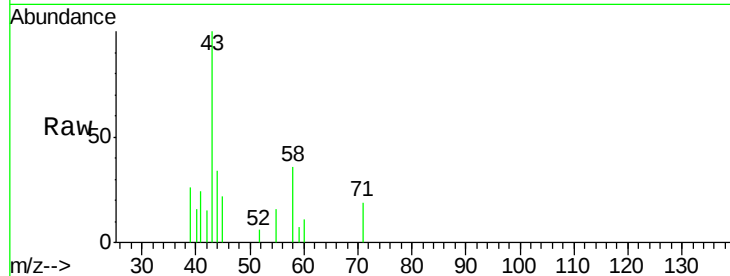




#74
N-amvl acetate
Concen: 1.831 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

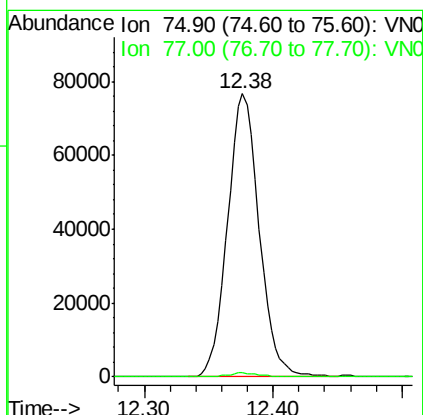
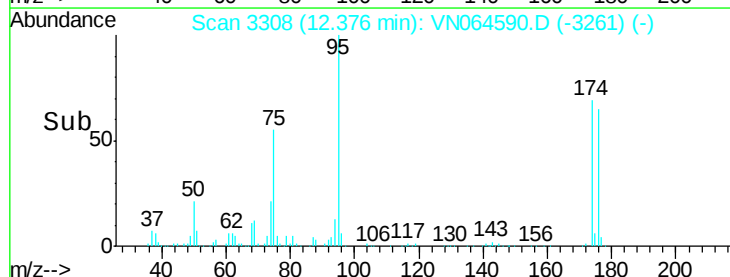
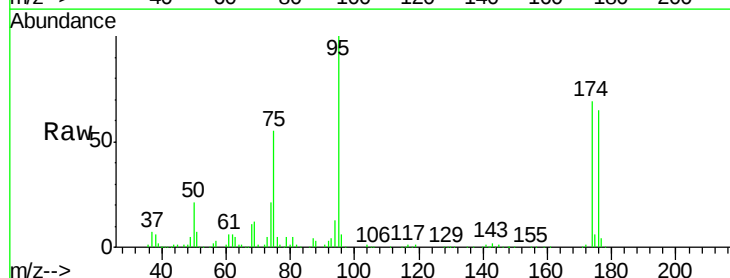
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-5-3-TOP

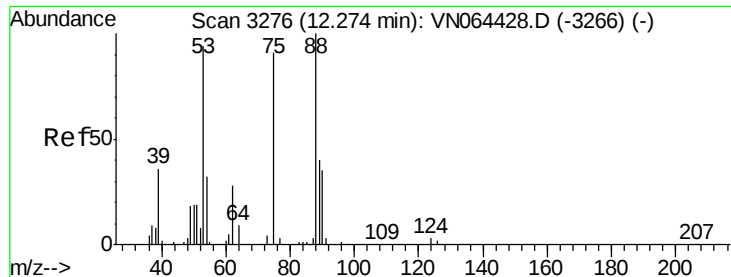
Tot Ion: 43 Resp: 4460
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 13.1 18.4 27.6#
61 0.0 17.8 26.6#



#76
1,2,3-Trichloropropane
Concen: 29.414 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064590.D
Acq: 12 Nov 2020 18:51

Tgt Ion: 75 Resp: 130477
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.126 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064590.D

Acq: 12 Nov 2020 18:51

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-5-3-TOP

Tot Ion: 75 Resp: 130477

Ion Ratio Lower Upper

75 100

53 0.1 84.0 126.0#

89 0.0 36.3 54.5#

