

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111220\
 Data File : VN064579.D
 Acq On : 12 Nov 2020 14:23
 Operator : JC/MD
 Sample : L4701-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-1-BOTTOM

Quant Time: Nov 13 02:49:20 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	244799	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	528287	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	564353	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	204697	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	241530	56.64	ug/l	0.00
Spiked Amount			Recovery	=	113.28%	
35) Dibromofluoromethane	7.55	113	177631	49.38	ug/l	0.00
Spiked Amount			Recovery	=	98.76%	
50) Toluene-d8	10.06	98	694701	49.97	ug/l	0.00
Spiked Amount			Recovery	=	99.94%	
62) 4-Bromofluorobenzene	12.38	95	256748	48.83	ug/l	0.00
Spiked Amount			Recovery	=	97.66%	

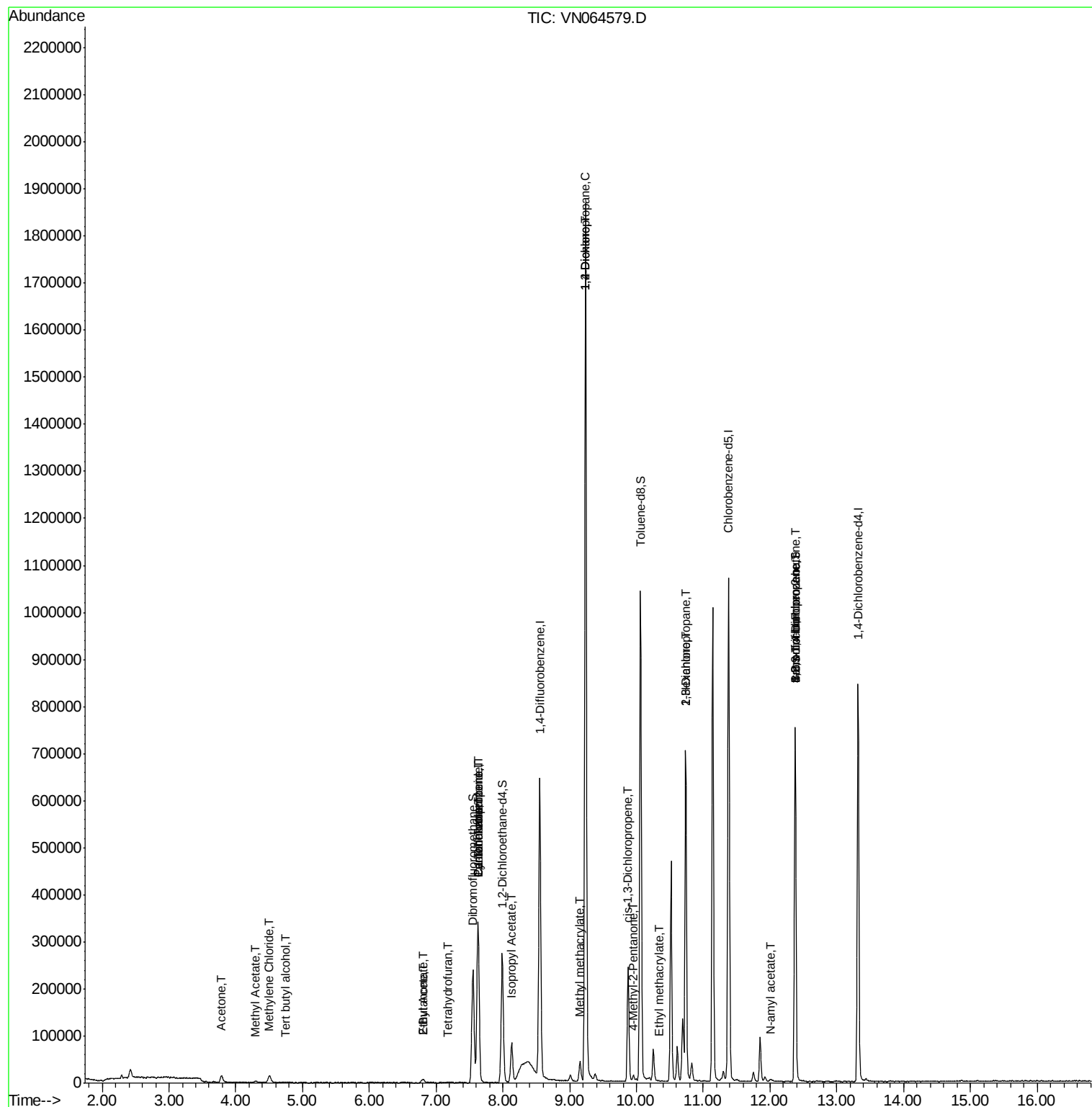
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.74	59	313	0.666	ug/l #	71
16) Acetone	3.78	43	23980	14.764	ug/l	97
18) Methyl Acetate	4.29	43	6458	2.022	ug/l #	83
20) Methylene Chloride	4.50	84	10006	3.105	ug/l	99
25) 2-Butanone	6.80	43	8278	4.000	ug/l #	86
29) Tetrahydrofuran	7.17	42	810	0.638	ug/l #	43
31) Cyclohexane	7.62	56	3925	0.757	ug/l #	43
36) 1,1-Dichloropropene	7.63	75	24072	4.313	ug/l #	49
37) Ethyl Acetate	6.80	43	8278	2.202	ug/l #	72
38) Carbon Tetrachloride	7.63	117	27875	4.673	ug/l #	18
43) Isopropyl Acetate	8.13	43	98254	10.863	ug/l	98
45) 1,2-Dichloropropane	9.24	63	1751	0.400	ug/l #	45
48) Methyl methacrylate	9.15	41	7185	1.574	ug/l #	15
49) 1,4-Dioxane	9.24	88	139	2.312	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	9612	1.822	ug/l	97
54) cis-1,3-Dichloropropene	9.88	75	38988	5.553	ug/l #	68
56) Ethyl methacrylate	10.33	69	182	1.868	ug/l #	20
57) 1,3-Dichloropropane	10.74	76	6735	0.989	ug/l #	42
59) 2-Hexanone	10.74	43	110809	29.376	ug/l #	57
71) Bromoform	12.37	173	990	1.554	ug/l #	1
74) N-amyl acetate	12.01	43	4478	1.768	ug/l #	53
76) 1,2,3-Trichloropropane	12.38	75	146703	29.579	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	146703	82.589	ug/l #	8

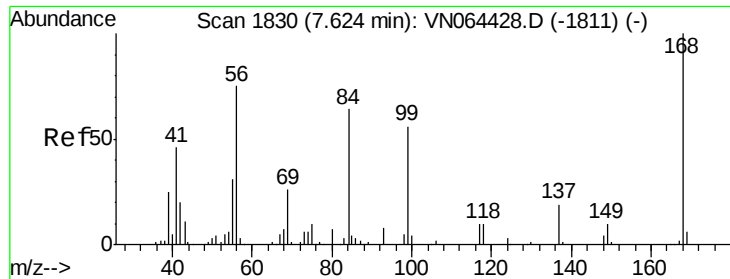
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Nov 04 12:09:03 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.00 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

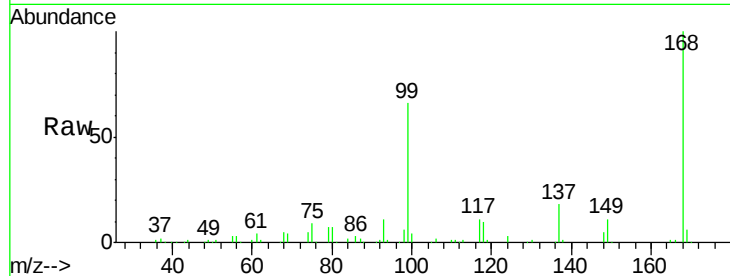
TRANSFORMER-1-1-BOTTOM

Tot Ion:168 Resp: 244799

Ion Ratio Lower Upper

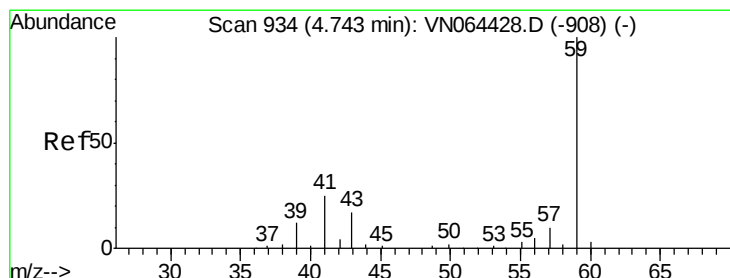
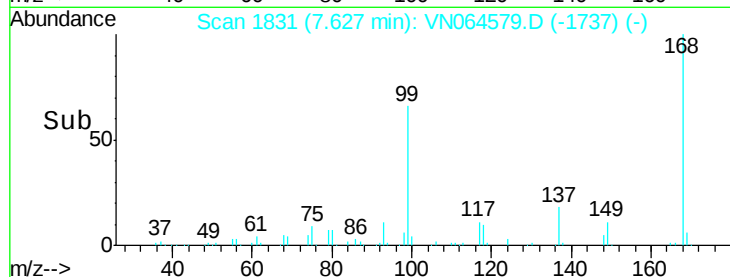
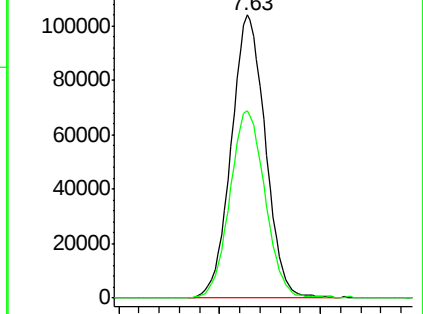
168 100

99 66.0 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: 0.666 ug/l

RT: 4.74 min Scan# 934

Delta R.T. -0.00 min

Lab File: VN064579.D

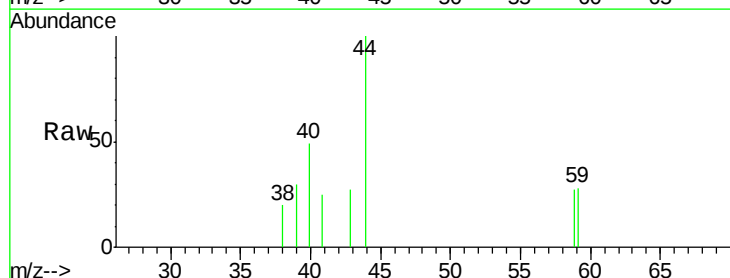
Acq: 12 Nov 2020 14:23

Tgt Ion: 59 Resp: 313

Ion Ratio Lower Upper

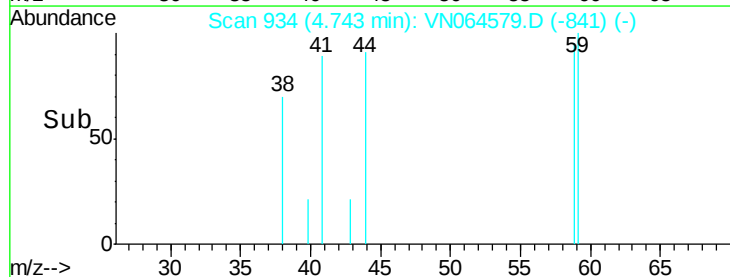
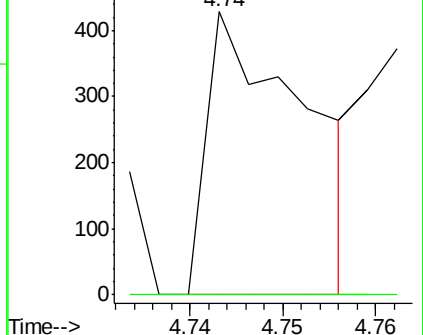
59 100

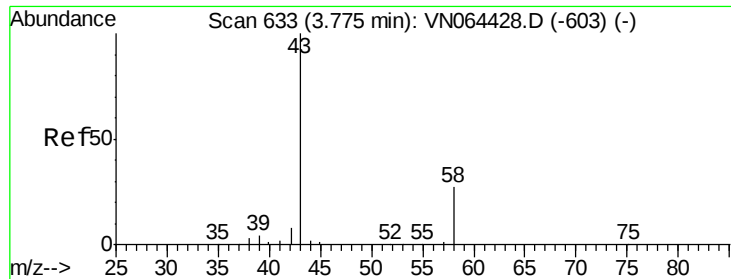
57 0.0 9.0 13.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

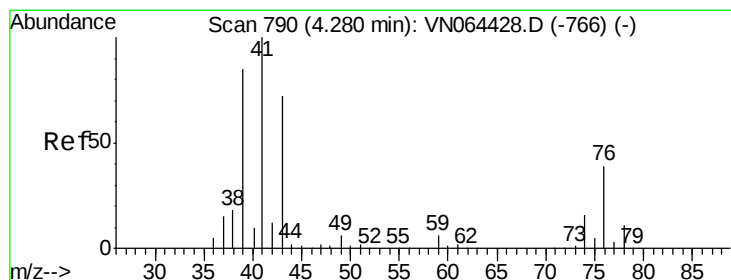
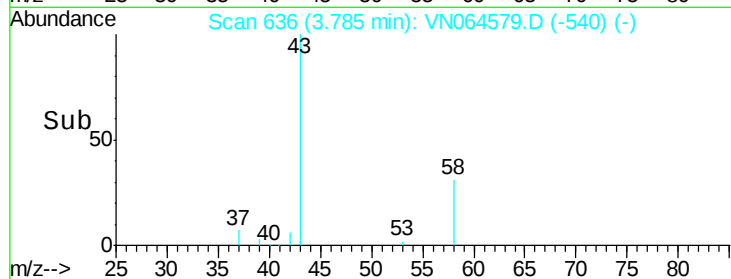
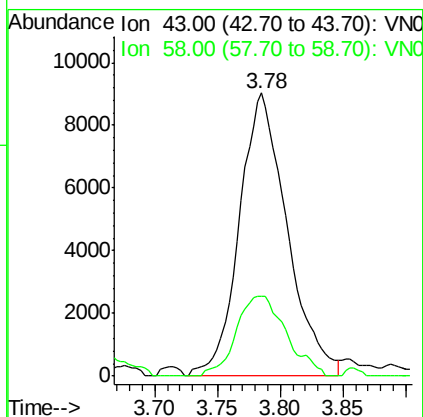
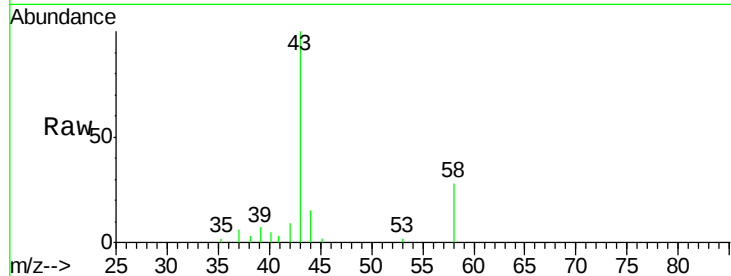




#16
Acetone
Concen: 14.764 ug/l
RT: 3.78 min Scan# 636
Delta R.T. 0.01 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

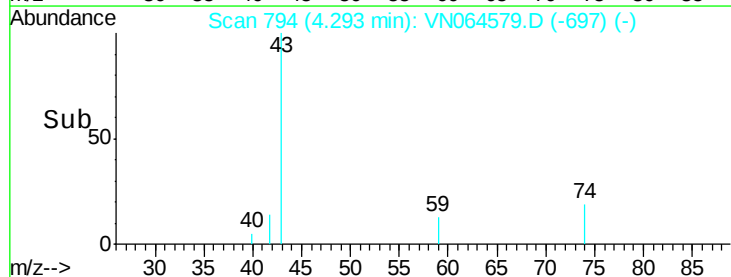
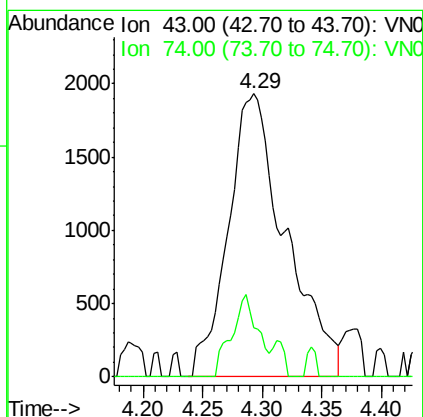
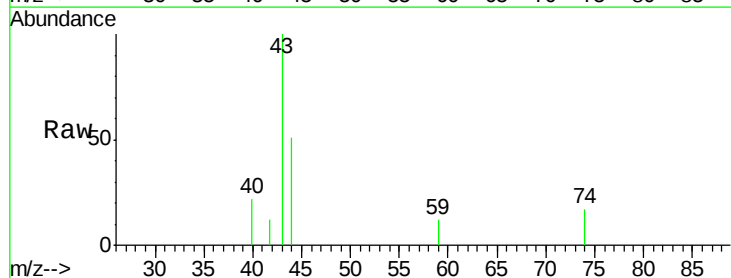
Instrument :
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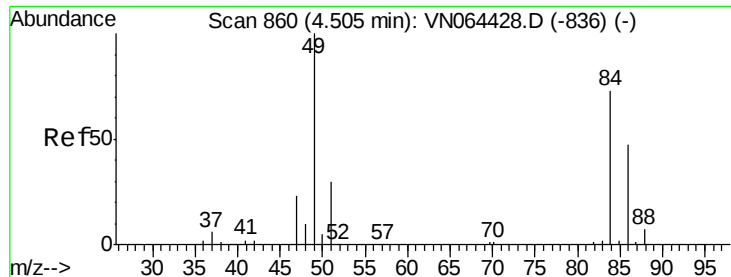
Tot Ion: 43 Resp: 23980
Ion Ratio Lower Upper
43 100
58 28.3 21.4 32.0



#18
Methyl Acetate
Concen: 2.022 ug/l
RT: 4.29 min Scan# 794
Delta R.T. 0.01 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 43 Resp: 6458
Ion Ratio Lower Upper
43 100
74 13.4 17.0 25.4#

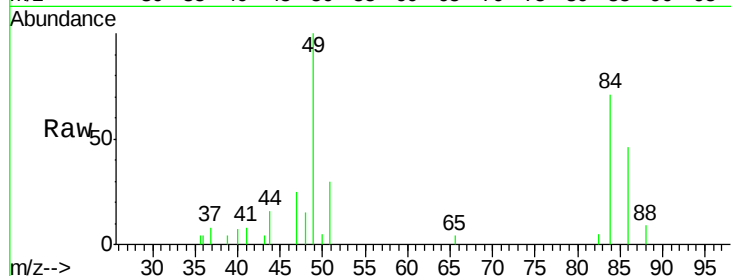




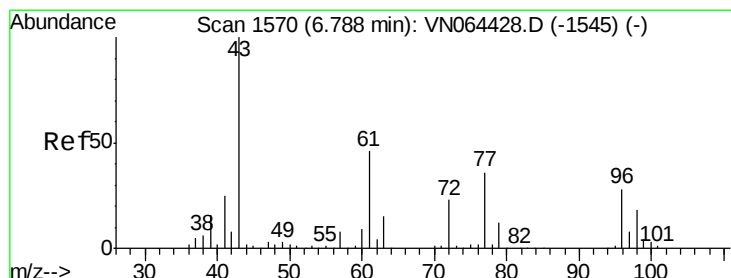
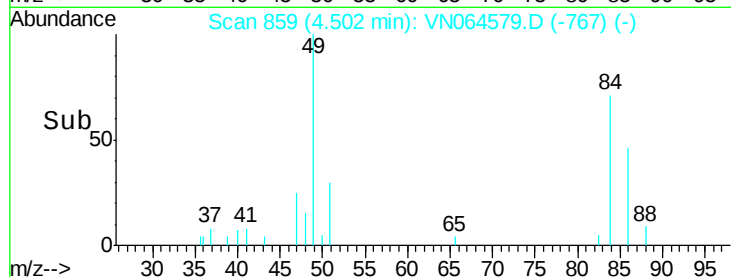
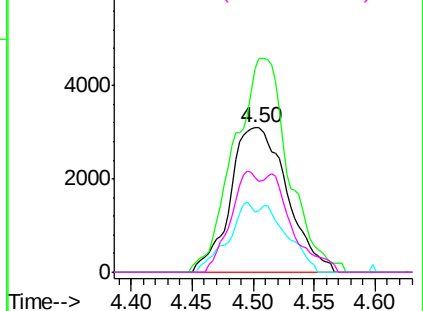
#20
Methvlene Chloride
Concen: 3.105 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-1-BOTTOM

Tot Ion: 84 Resp: 10006
Ion Ratio Lower Upper
84 100
49 140.5 110.1 165.1
51 41.5 33.6 50.4
86 65.2 52.1 78.1

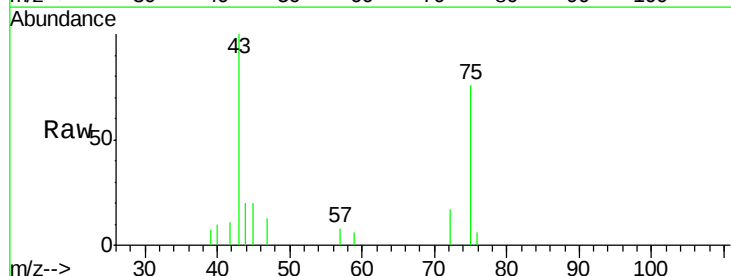


Abundance Ion 83.90 (83.60 to 84.60): VN064428.D (-836) (-)
Ion 48.90 (48.60 to 49.60): VN064428.D (-836) (-)
Ion 50.90 (50.60 to 51.60): VN064428.D (-836) (-)
Ion 85.90 (85.60 to 86.60): VN064428.D (-836) (-)

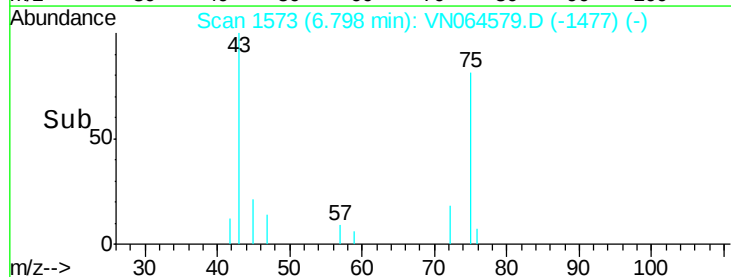
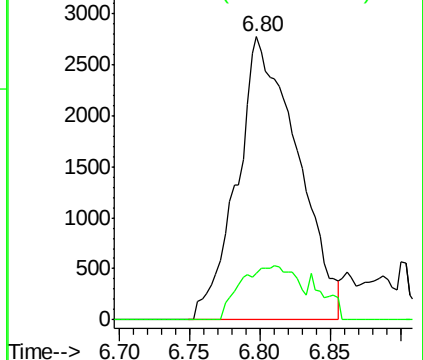


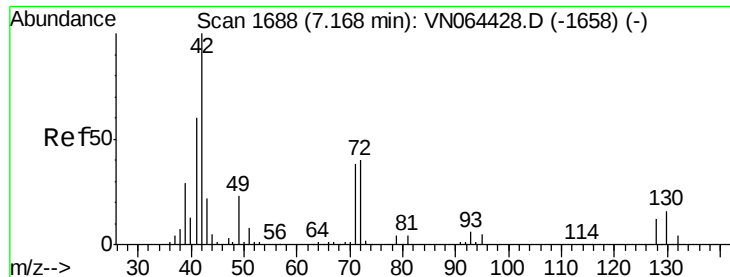
#25
2-Butanone
Concen: 4.000 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 43 Resp: 8278
Ion Ratio Lower Upper
43 100
72 16.5 18.5 27.7#



Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-1545) (-)
Ion 72.00 (71.70 to 72.70): VN064428.D (-1545) (-)





#29

Tetrahydrofuran

Concen: 0.638 ug/l

RT: 7.17 min Scan# 1689

Delta R.T. 0.00 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-1-BOTTOM

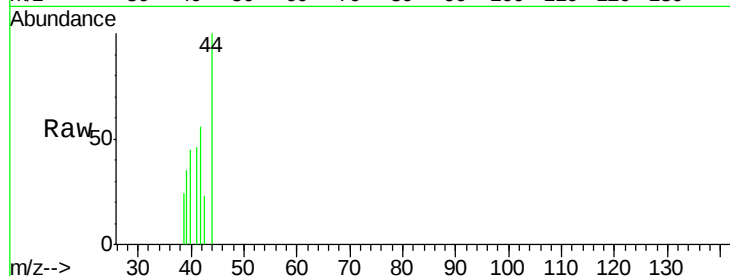
Tot Ion: 42 Resp: 810

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

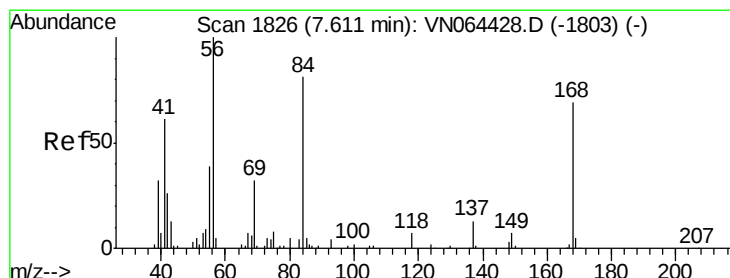
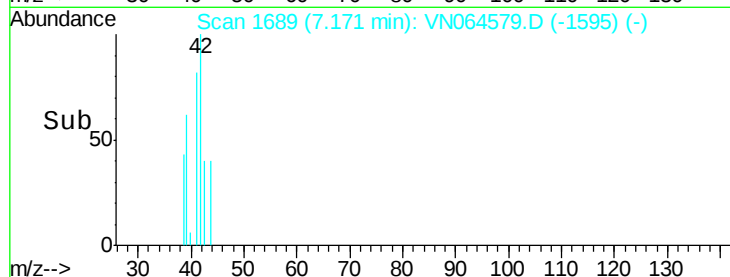
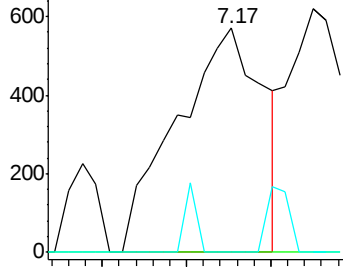
71 7.7 29.8 44.6#



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: 0.757 ug/l

RT: 7.62 min Scan# 1828

Delta R.T. 0.01 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

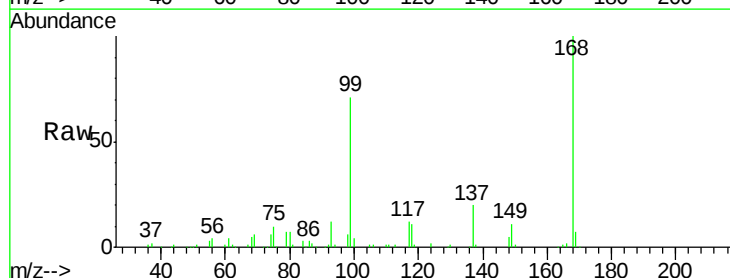
Tgt Ion: 56 Resp: 3925

Ion Ratio Lower Upper

56 100

69 140.8 25.6 38.4#

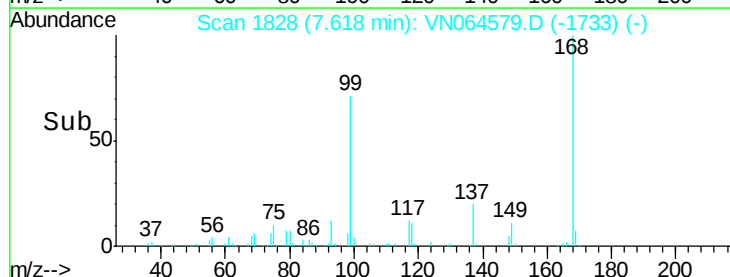
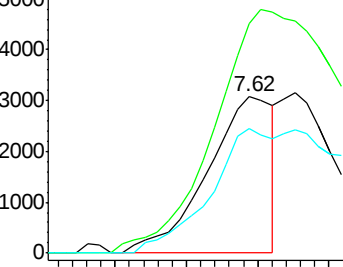
84 79.9 63.0 94.6

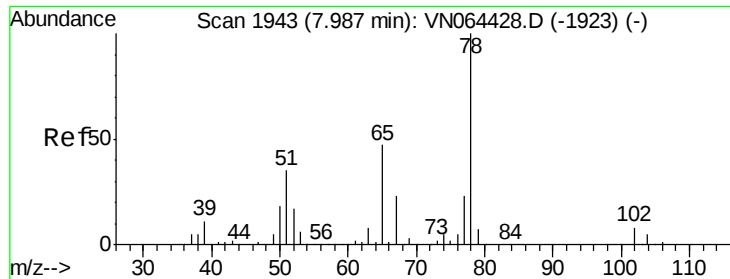


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

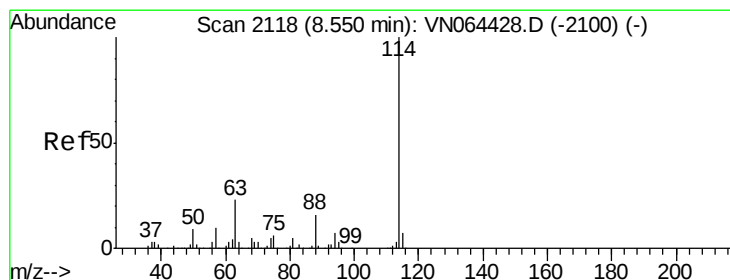
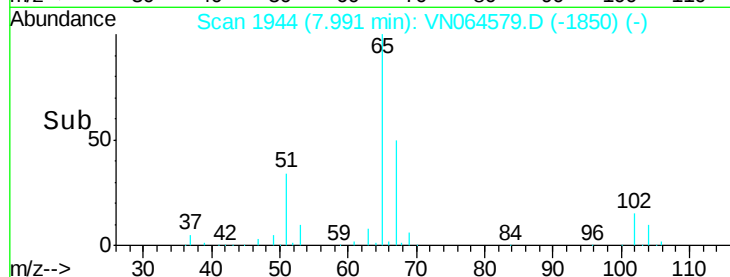
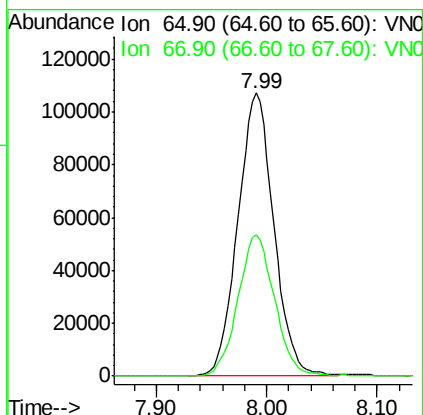
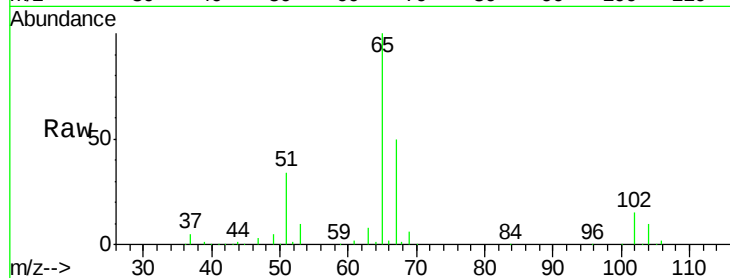




#33
 1,2-Dichloroethane-d4
 Concen: 56.644 ug/l
 RT: 7.99 min Scan# 1944
 Delta R.T. 0.00 min
 Lab File: VN064579.D
 Acq: 12 Nov 2020 14:23

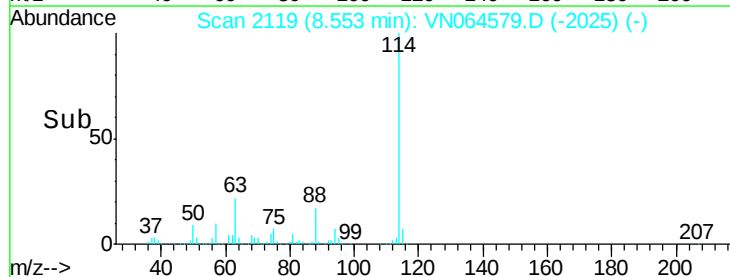
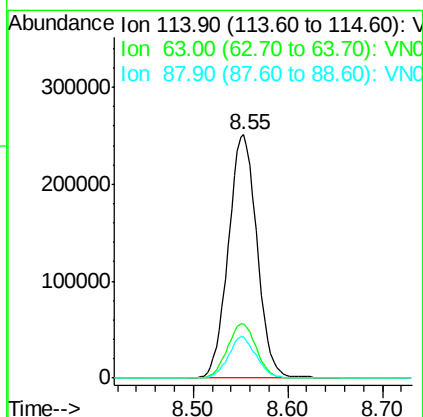
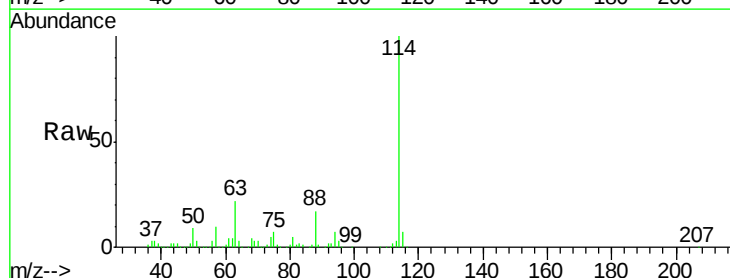
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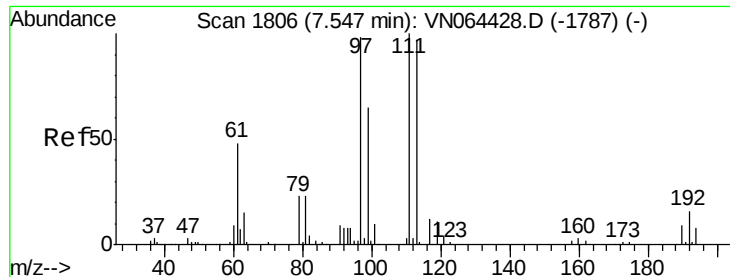
Tot Ion: 65 Resp: 241530
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.55 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN064579.D
 Acq: 12 Nov 2020 14:23

Tgt Ion: 114 Resp: 528287
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 45.6
 88 16.8 0.0 32.8

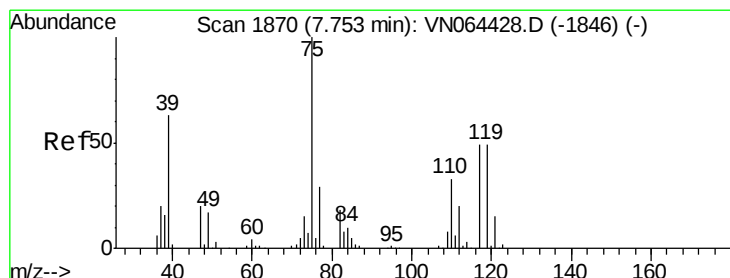
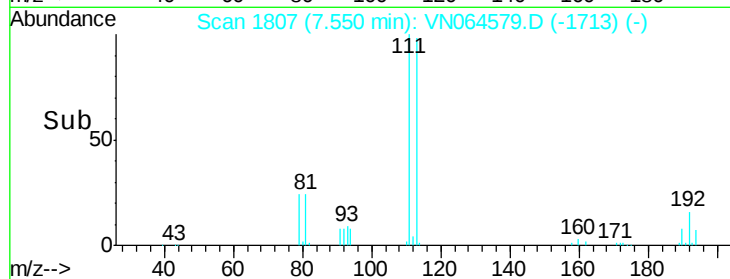
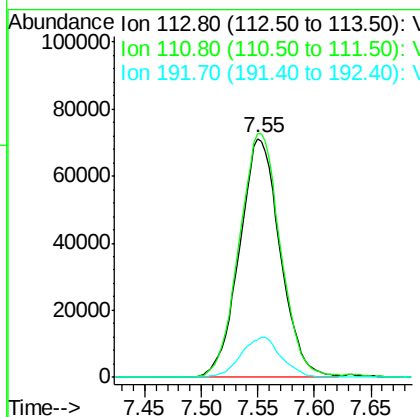
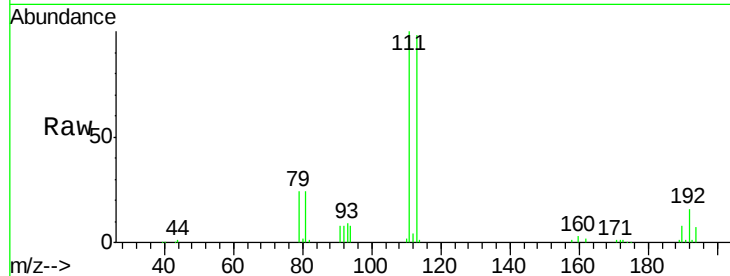




#35
 Dibromofluoromethane
 Concen: 49.384 ug/l
 RT: 7.55 min Scan# 1807
 Delta R.T. 0.00 min
 Lab File: VN064579.D
 Acq: 12 Nov 2020 14:23

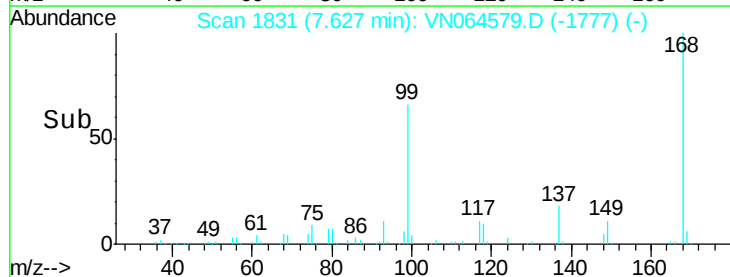
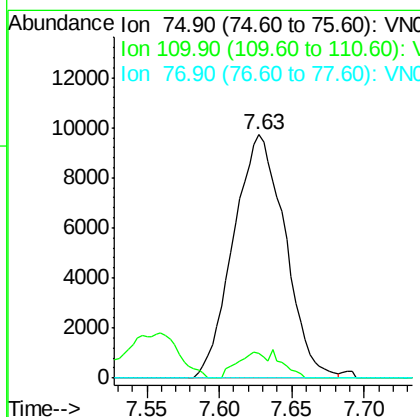
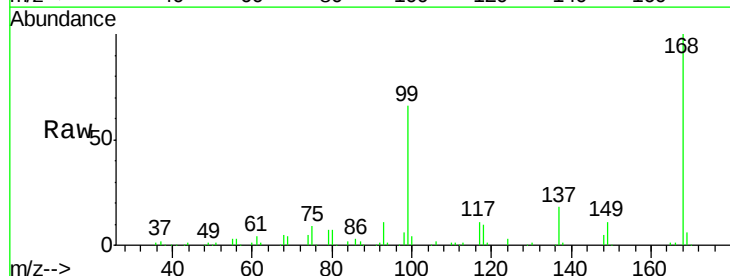
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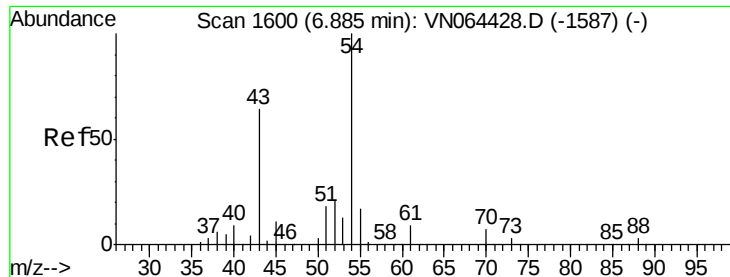
Tot Ion:113 Resp: 177631
 Ion Ratio Lower Upper
 113 100
 111 103.8 81.1 121.7
 192 16.7 12.8 19.2



#36
 1,1-Dichloropropene
 Concen: 4.313 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064579.D
 Acq: 12 Nov 2020 14:23

Tgt Ion: 75 Resp: 24072
 Ion Ratio Lower Upper
 75 100
 110 5.9 16.0 48.0#
 77 0.0 24.0 36.0#

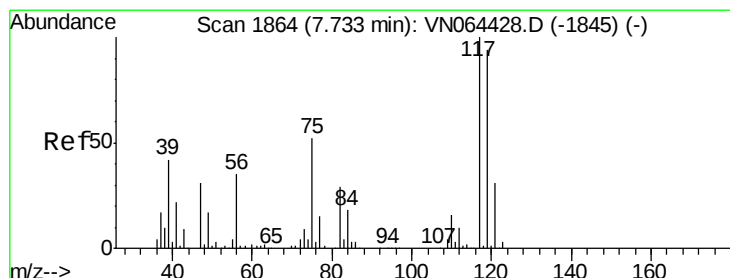
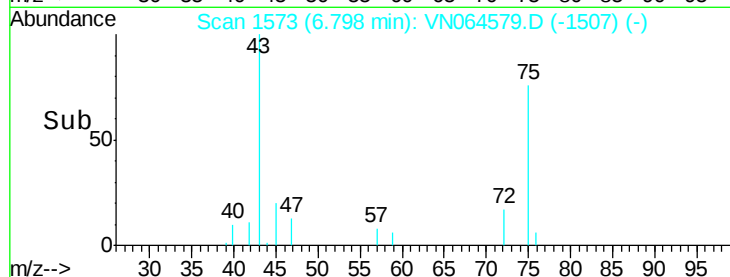
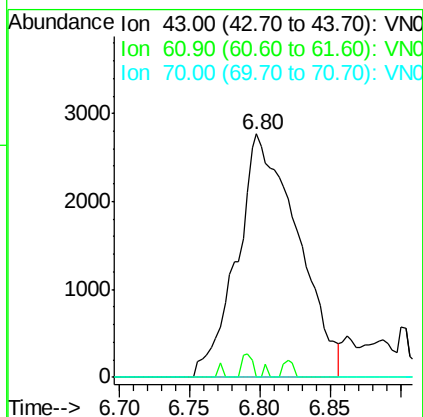
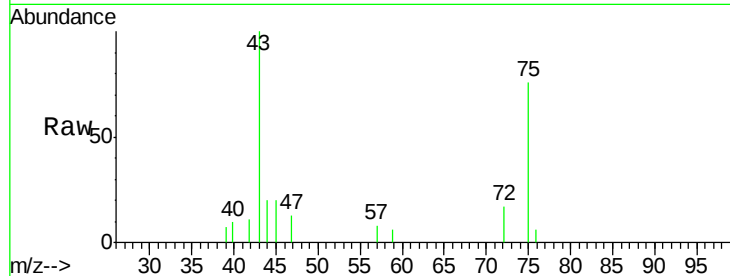




#37
Ethyl Acetate
Concen: 2.202 ug/l
RT: 6.80 min Scan# 1573
Delta R.T. -0.09 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

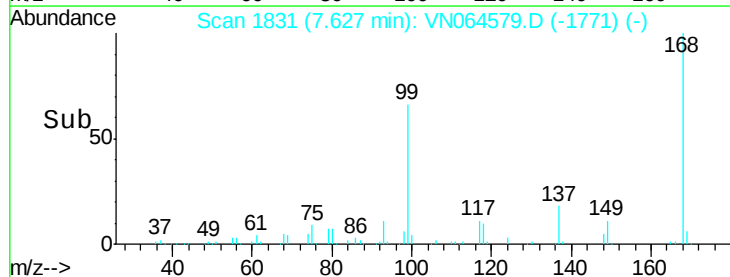
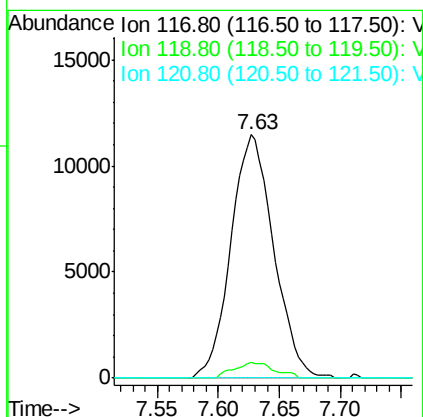
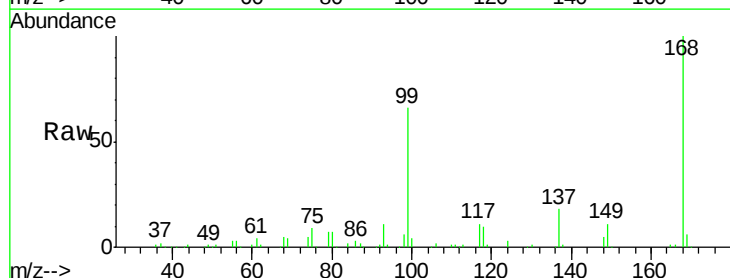
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-1-BOTTOM

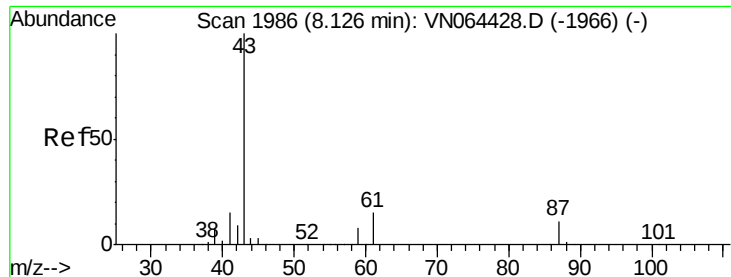
Tot Ion: 43 Resp: 8278
Ion Ratio Lower Upper
43 100
61 0.4 10.0 15.0#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 4.673 ug/l
RT: 7.63 min Scan# 1831
Delta R.T. -0.11 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 117 Resp: 27875
Ion Ratio Lower Upper
117 100
119 6.4 75.5 113.3#
121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 10.863 ug/l

RT: 8.13 min Scan# 1988

Delta R.T. 0.01 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-1-BOTTOM

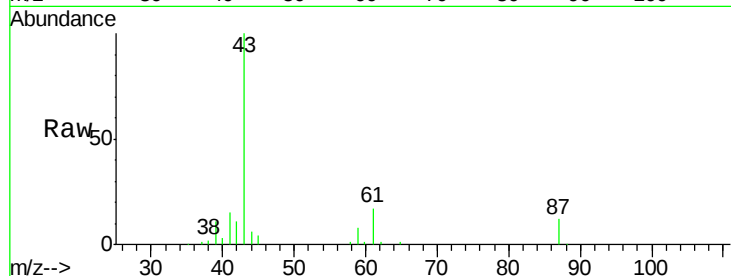
Tot Ion: 43 Resp: 98254

Ion Ratio Lower Upper

43 100

61 18.4 14.0 21.0

87 12.1 9.1 13.7

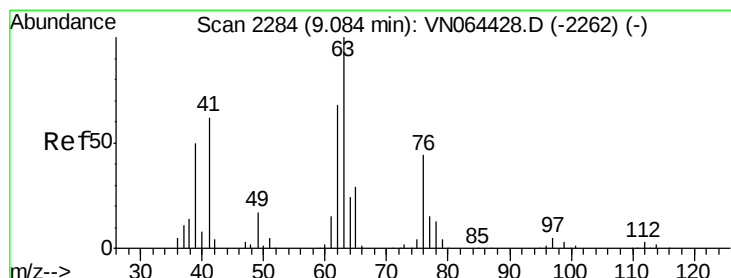
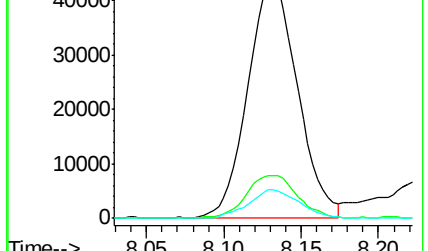
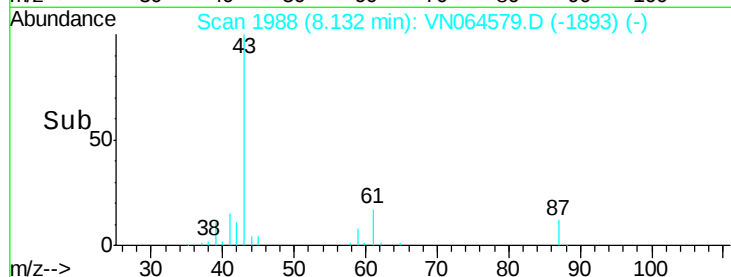


Abundance Ion 43.00 (42.70 to 43.70): VN064428.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN064428.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN064428.D (-1966) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 0.400 ug/l

RT: 9.24 min Scan# 2333

Delta R.T. 0.16 min

Lab File: VN064579.D

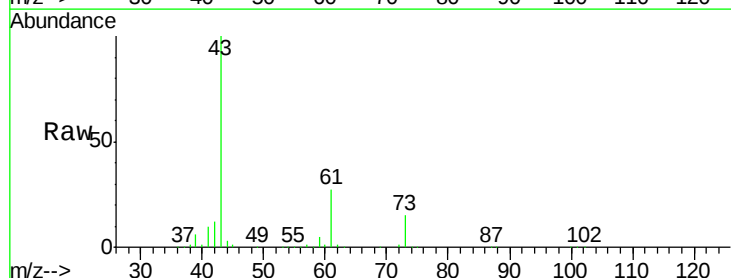
Acq: 12 Nov 2020 14:23

Tgt Ion: 63 Resp: 1751

Ion Ratio Lower Upper

63 100

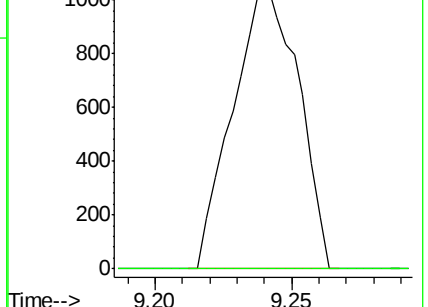
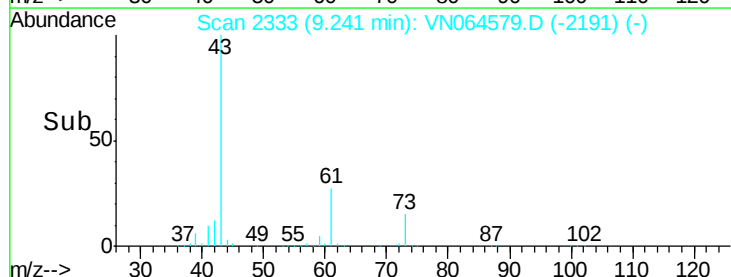
65 0.0 23.6 35.4#

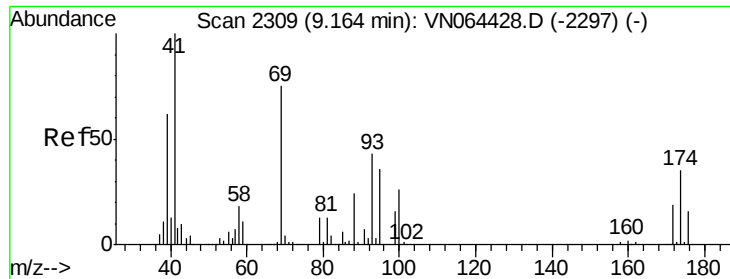


Abundance Ion 62.90 (62.60 to 63.60): VN064428.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN064428.D (-2262) (-)

Time-->

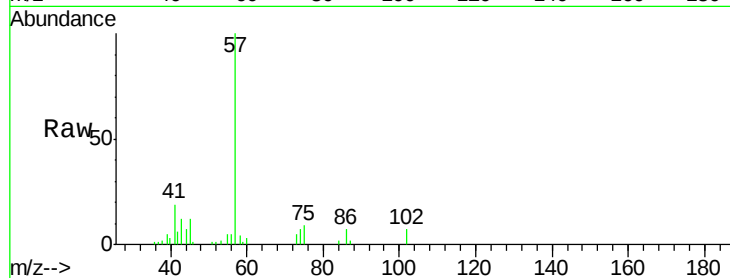




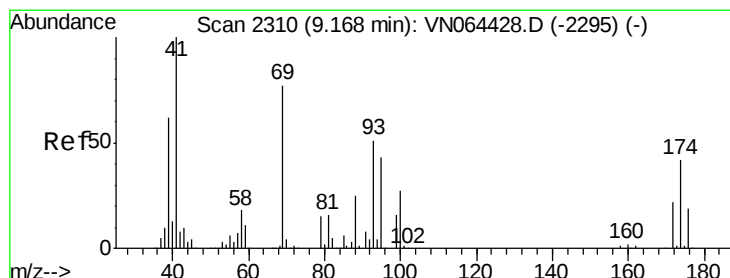
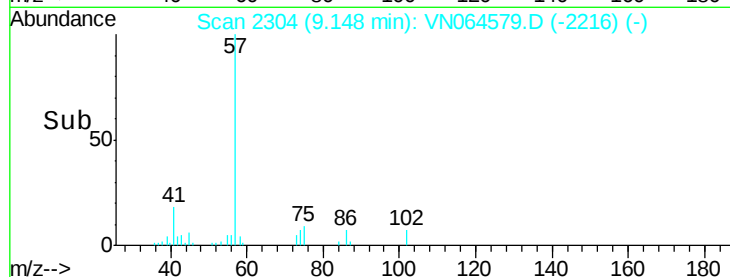
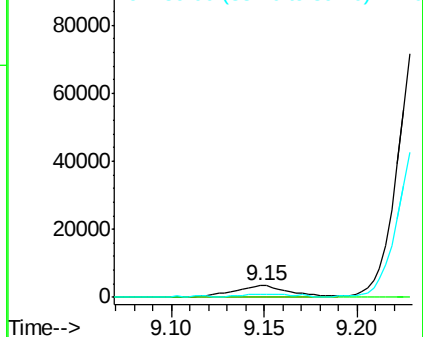
#48
Methvl methacrylate
Concen: 1.574 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-1-BOTTOM

Tot Ion: 41 Resp: 7185
Ion Ratio Lower Upper
41 100
69 0.0 60.4 90.6#
39 0.0 51.2 76.8#

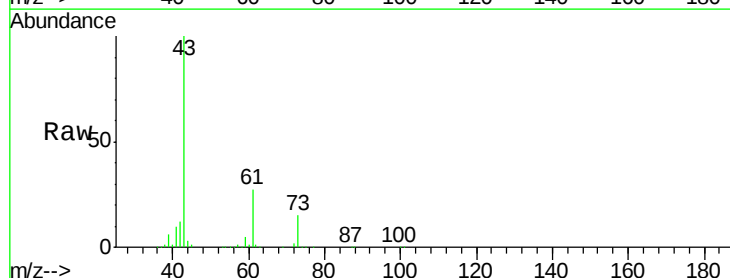


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

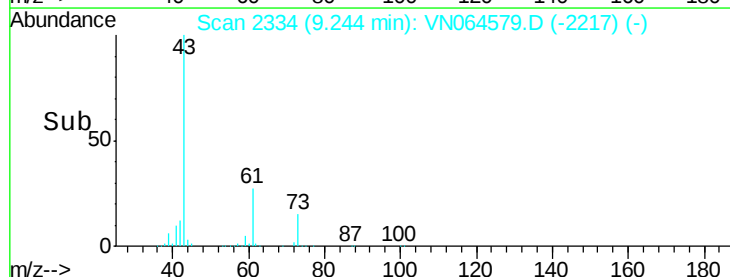
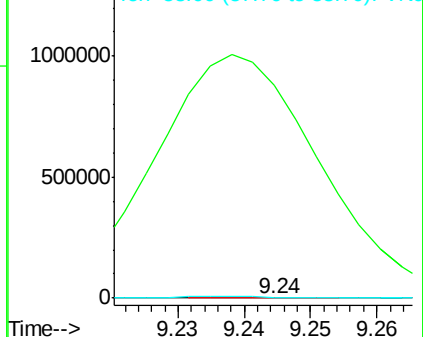


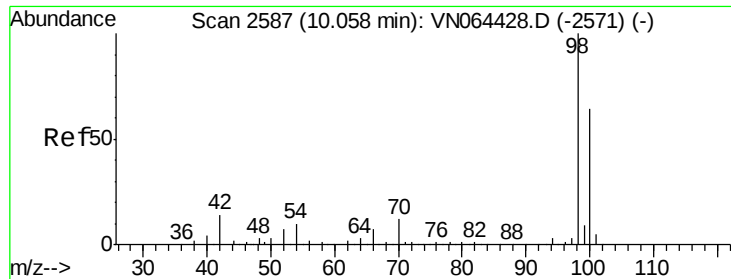
#49
1,4-Dioxane
Concen: 2.312 ug/l
RT: 9.24 min Scan# 2334
Delta R.T. 0.08 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 88 Resp: 139
Ion Ratio Lower Upper
88 100
43 1303684.9 31.0 46.6#
58 7077.7 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC

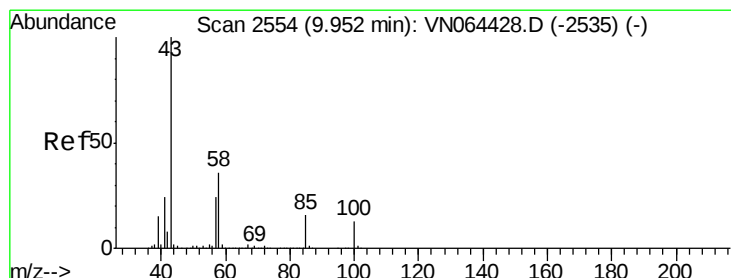
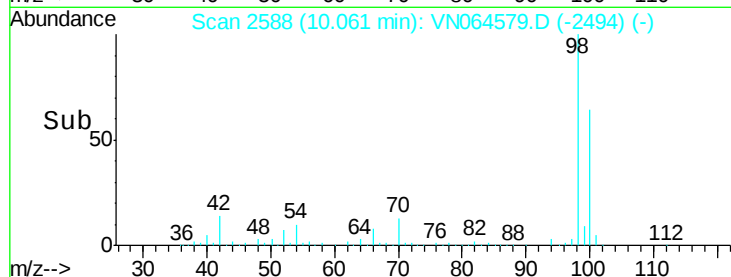
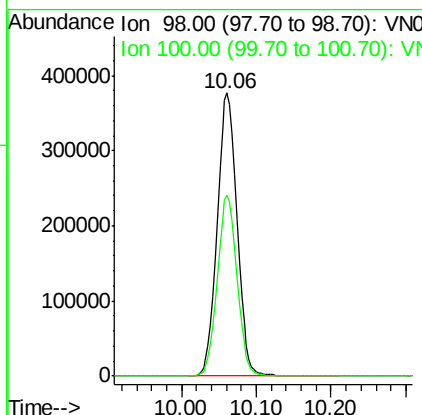
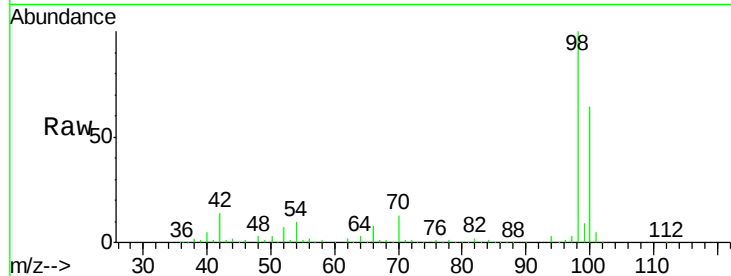




#50
Toluene-d8
Concen: 49.971 ug/l
RT: 10.06 min Scan# 2588
Delta R.T. 0.00 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

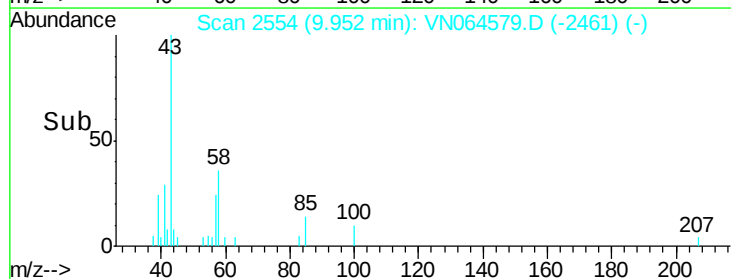
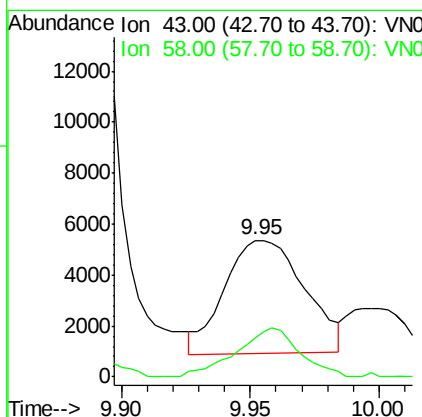
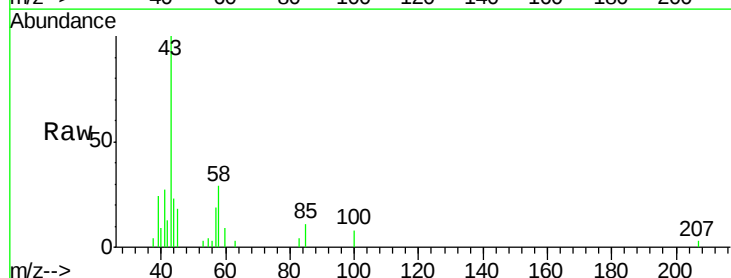
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-1-BOTTOM

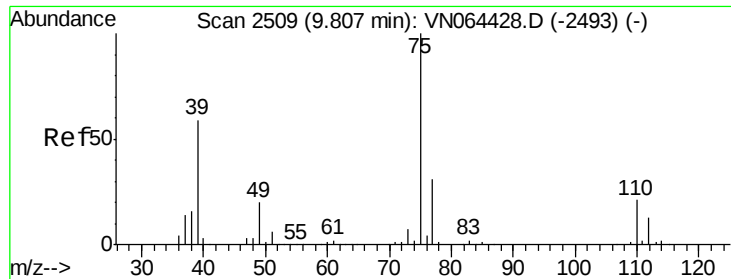
Tot Ion: 98 Resp: 694701
Ion Ratio Lower Upper
98 100
100 63.1 50.7 76.1



#51
4-Methyl-2-Pentanone
Concen: 1.822 ug/l
RT: 9.95 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 43 Resp: 9612
Ion Ratio Lower Upper
43 100
58 34.0 28.4 42.6



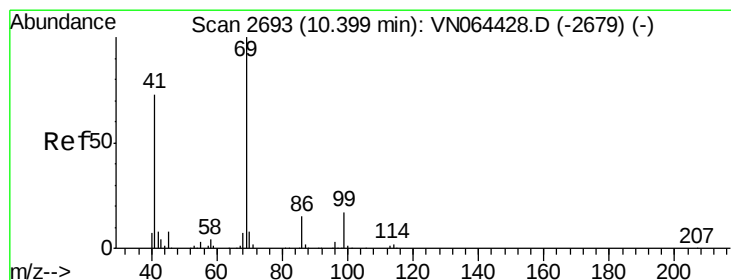
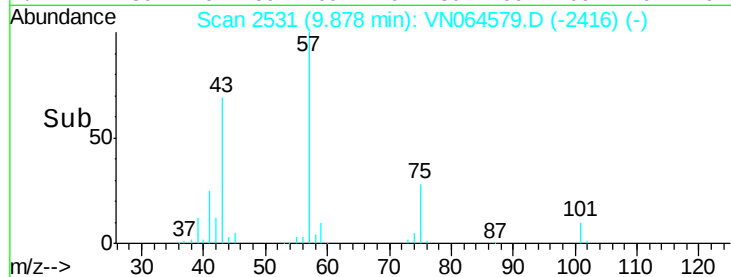
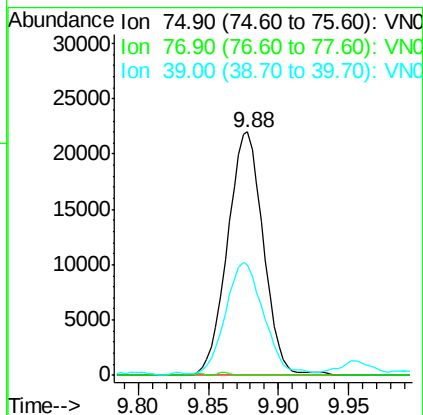
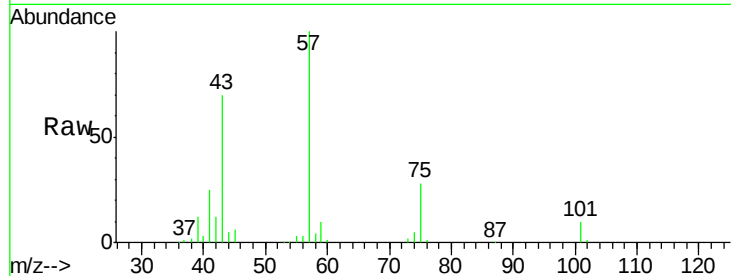


#54

cis-1,3-Dichloropropene
 Concen: 5.553 ug/l
 RT: 9.88 min Scan# 2531
 Delta R.T. 0.07 min
 Lab File: VN064579.D
 Acq: 12 Nov 2020 14:23

Instrument :
 MSVOA_N
 ClientSampleId :
 TRANSFORMER-1-1-BOTTOM

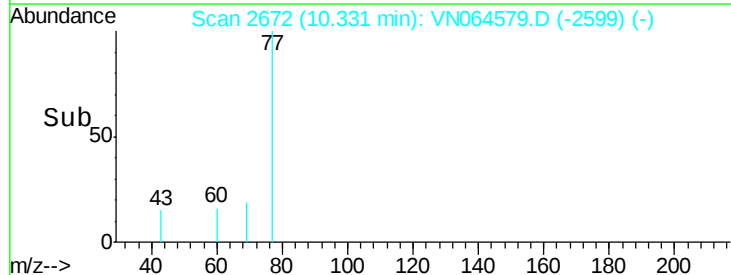
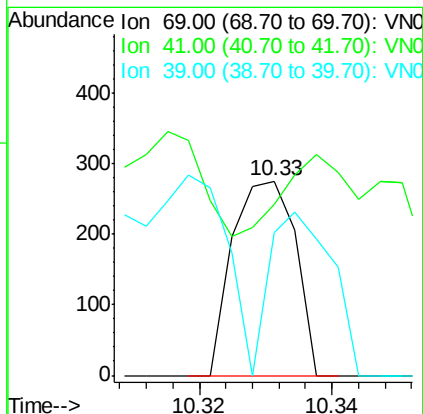
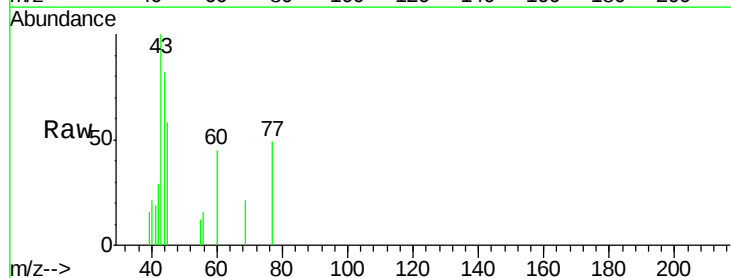
Tot Ion: 75 Resp: 38988
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 44.7 47.1 70.7#

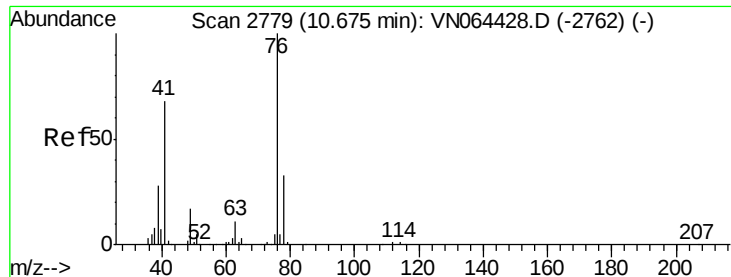


#56

Ethyl methacrylate
 Concen: 1.868 ug/l
 RT: 10.33 min Scan# 2672
 Delta R.T. -0.07 min
 Lab File: VN064579.D
 Acq: 12 Nov 2020 14:23

Tgt Ion: 69 Resp: 182
 Ion Ratio Lower Upper
 69 100
 41 0.0 59.3 88.9#
 39 0.0 35.4 53.0#





#57

1,3-Dichloropropane

Concen: 0.989 ug/l

RT: 10.74 min Scan# 2798

Delta R.T. 0.06 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

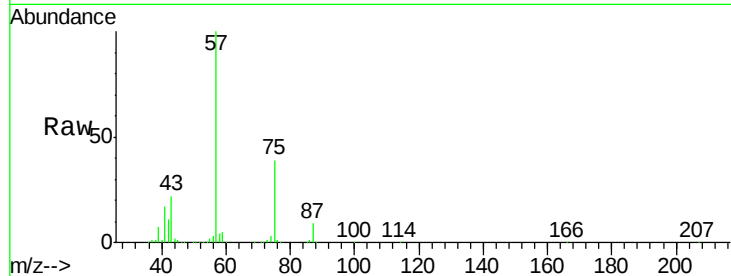
TRANSFORMER-1-1-BOTTOM

Tot Ion: 76 Resp: 6735

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.74

4000

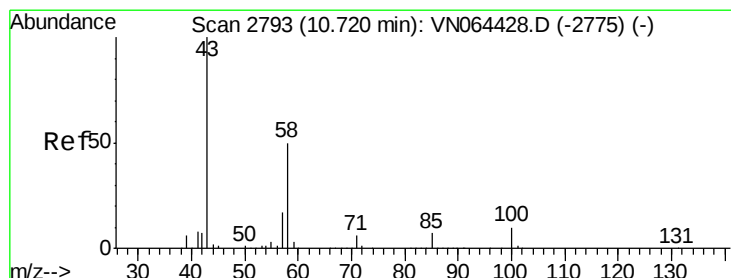
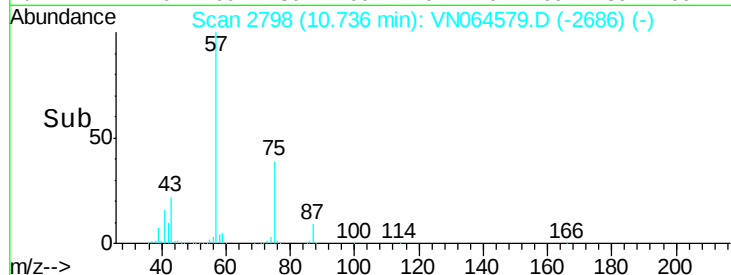
3000

2000

1000

0

Time-->



#59

2-Hexanone

Concen: 29.376 ug/l

RT: 10.74 min Scan# 2799

Delta R.T. 0.02 min

Lab File: VN064579.D

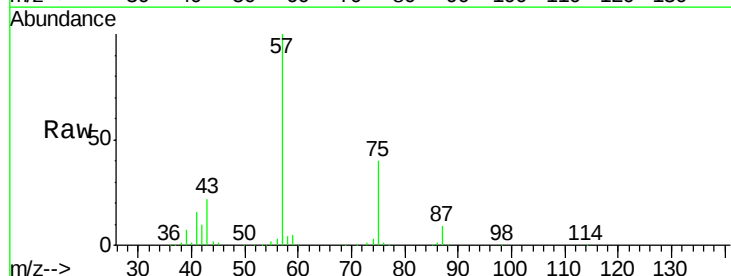
Acq: 12 Nov 2020 14:23

Tgt Ion: 43 Resp: 110809

Ion Ratio Lower Upper

43 100

58 20.1 24.7 74.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.74

80000

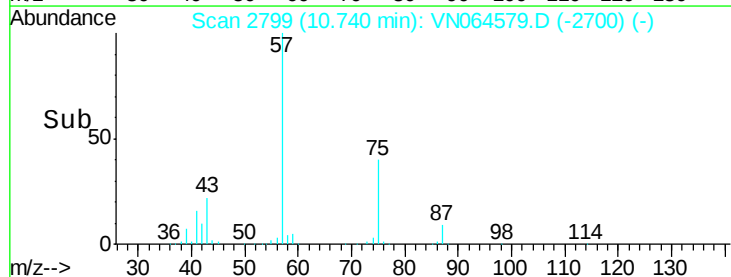
60000

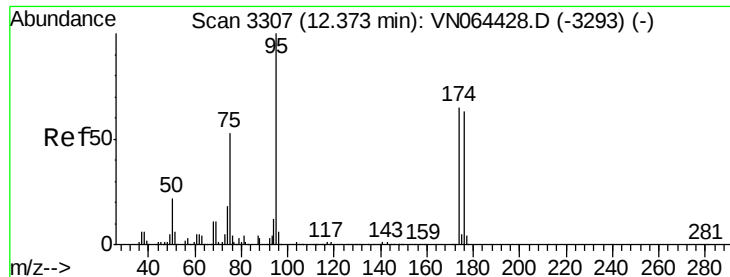
40000

20000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 48.834 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.00 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-1-BOTTOM

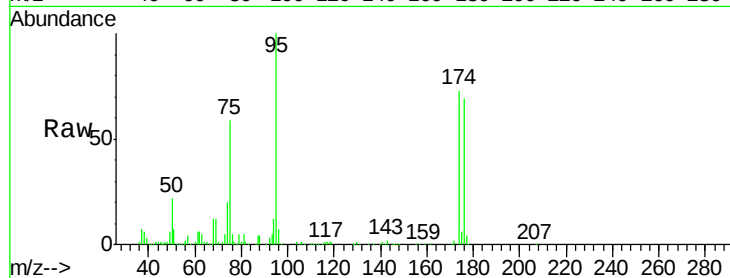
Tot Ion: 95 Resp: 256748

Ion Ratio Lower Upper

95 100

174 72.4 0.0 132.6

176 68.0 0.0 129.2

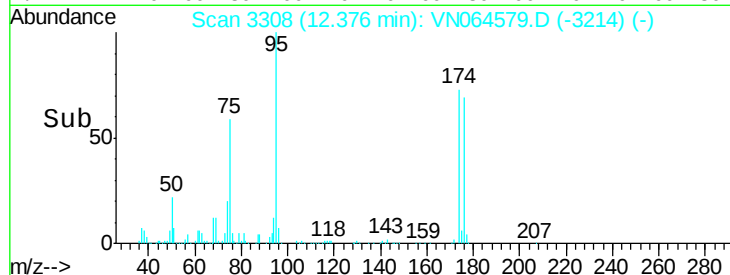


Abundance Ion 94.90 (94.60 to 95.60): VN064428.D (-3293) (-)

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

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

Time-->



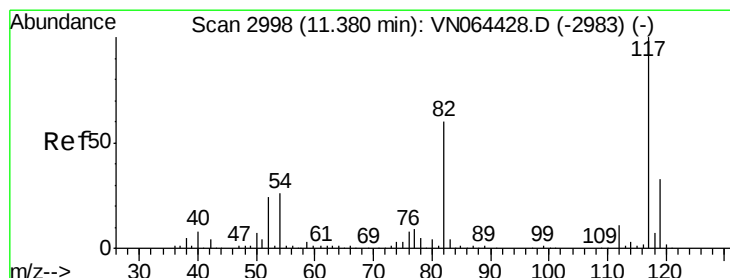
Abundance

Ion 94.90 (94.60 to 95.60): VN064579.D (-3214) (-)

Ion 173.80 (173.50 to 174.50): VN064579.D (-3214) (-)

Ion 175.80 (175.50 to 176.50): VN064579.D (-3214) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2998

Delta R.T. -0.00 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

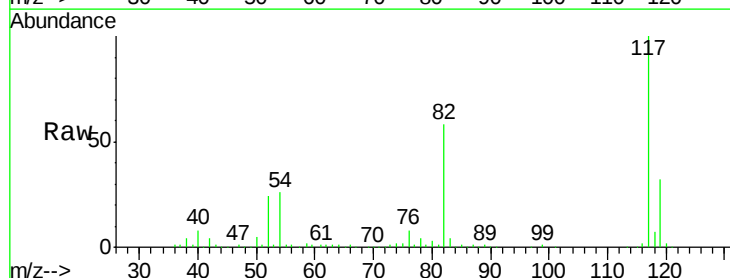
Tgt Ion: 117 Resp: 564353

Ion Ratio Lower Upper

117 100

82 57.9 48.1 72.1

119 32.4 26.2 39.4

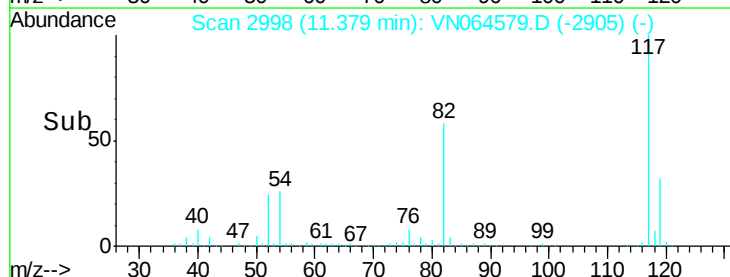


Abundance Ion 116.90 (116.60 to 117.60): VN064428.D (-2983) (-)

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

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

Time-->



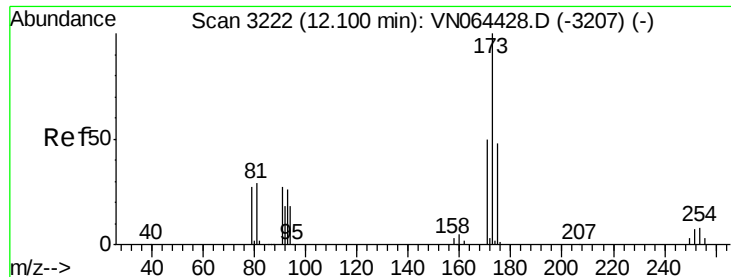
Abundance

Ion 116.90 (116.60 to 117.60): VN064579.D (-2905) (-)

Ion 82.00 (81.70 to 82.70): VN064579.D (-2905) (-)

Ion 118.90 (118.60 to 119.60): VN064579.D (-2905) (-)

Time-->



#71

Bromoform

Concen: 1.554 ug/l

RT: 12.37 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-1-BOTTOM

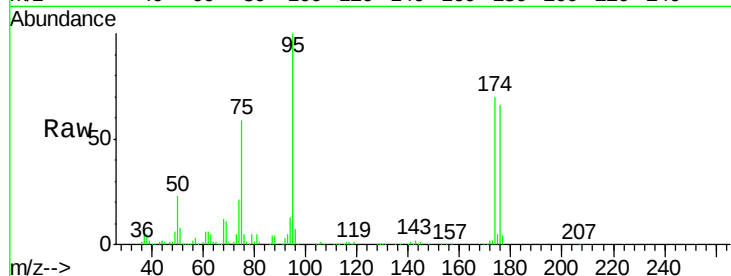
Tot Ion:173 Resp: 990

Ion Ratio Lower Upper

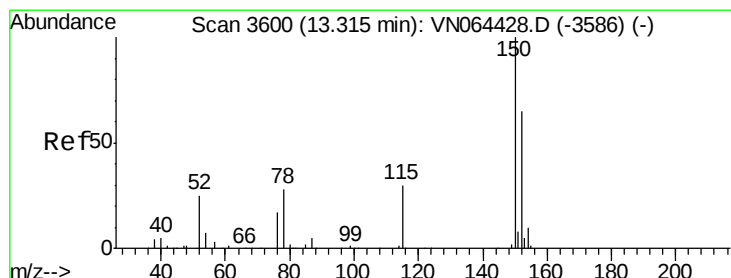
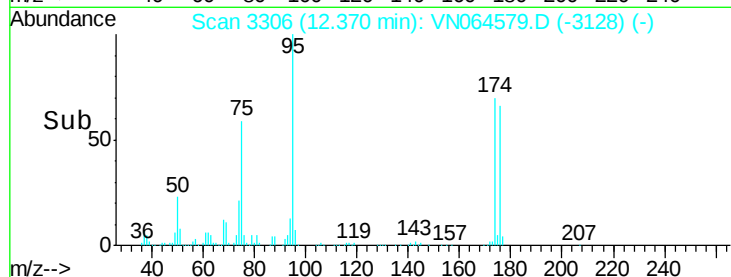
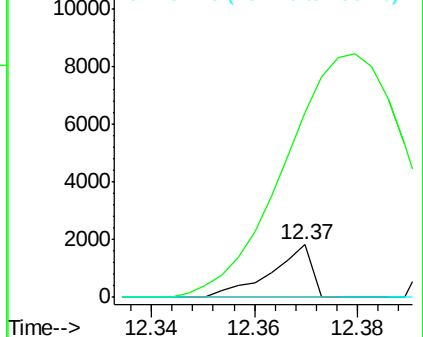
173 100

175 1152.7 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: VN064579.D

Acq: 12 Nov 2020 14:23

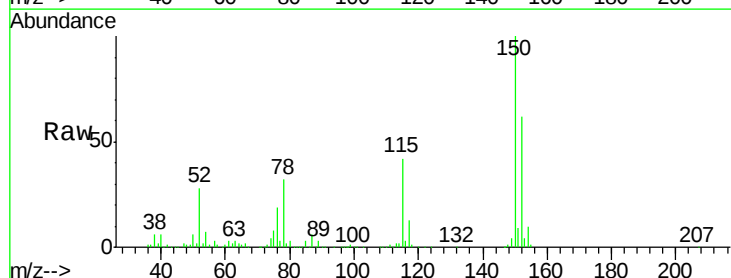
Tgt Ion:152 Resp: 204697

Ion Ratio Lower Upper

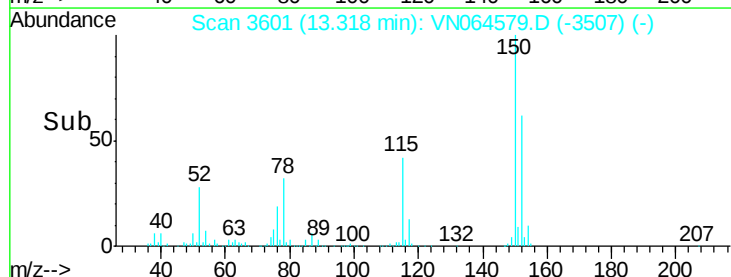
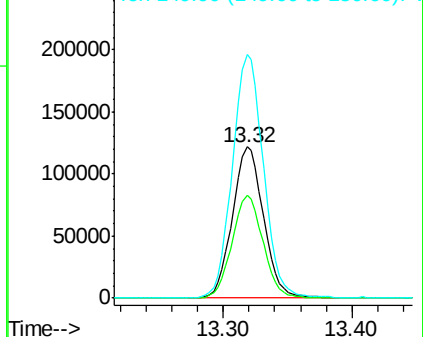
152 100

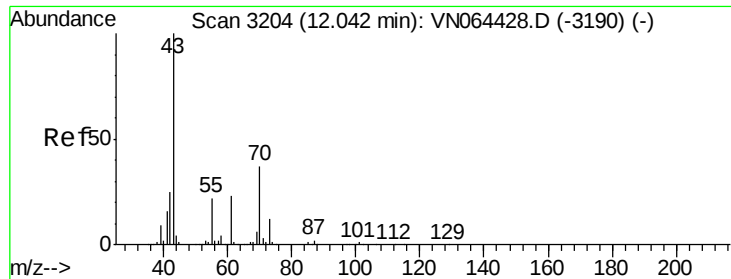
115 67.7 32.0 96.0

150 160.3 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

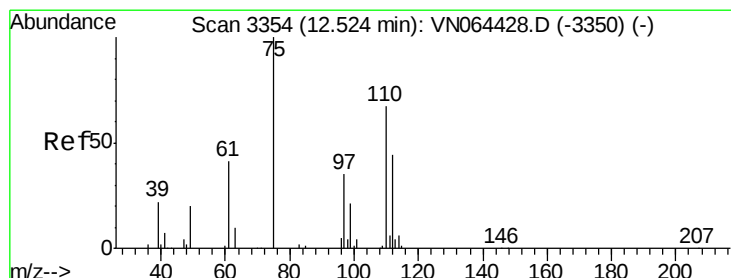
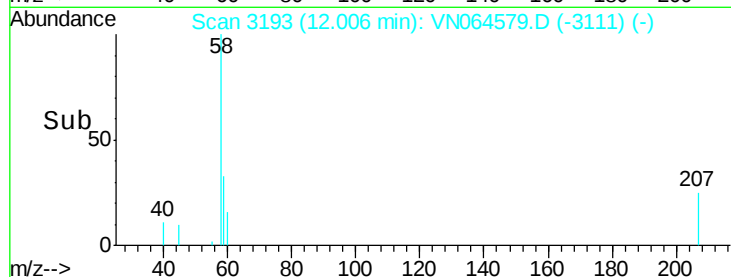
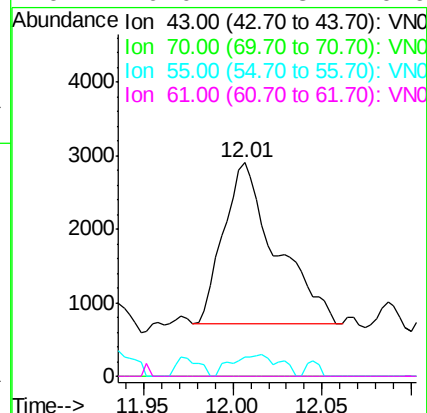
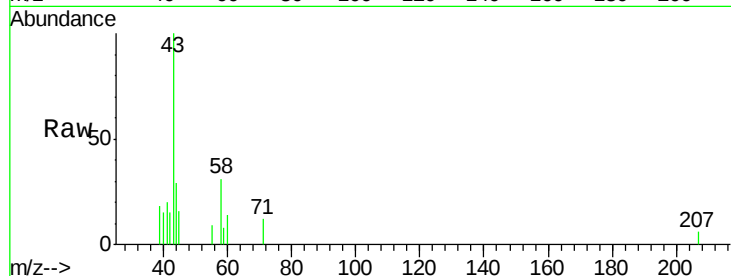




#74
N-amyl acetate
Concen: 1.768 ug/l
RT: 12.01 min Scan# 3193
Delta R.T. -0.04 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

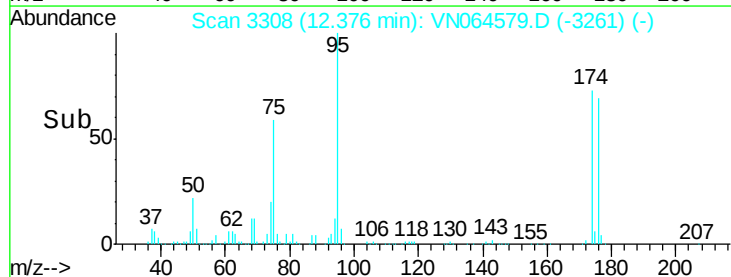
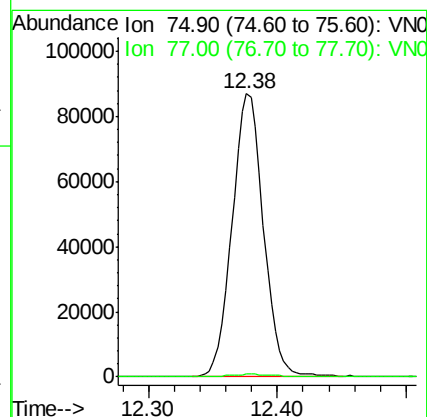
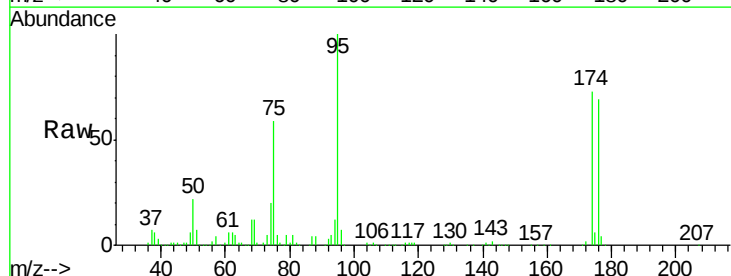
Instrument :
MSVOA_N
ClientSampleId :
TRANSFORMER-1-1-BOTTOM

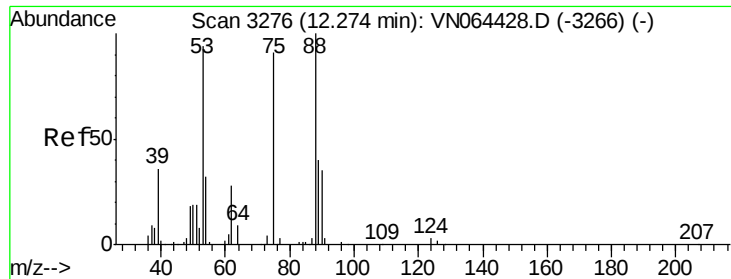
Tot Ion: 43 Resp: 4478
Ion Ratio Lower Upper
43 100
70 0.0 29.6 44.4#
55 12.0 18.4 27.6#
61 0.0 17.8 26.6#



#76
1,2,3-Trichloropropane
Concen: 29.579 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. -0.15 min
Lab File: VN064579.D
Acq: 12 Nov 2020 14:23

Tgt Ion: 75 Resp: 146703
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 82.589 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064579.D

Acq: 12 Nov 2020 14:23

Instrument :

MSVOA_N

ClientSampleId :

TRANSFORMER-1-1-BOTTOM

Tot Ion: 75 Resp: 146703

Ion Ratio Lower Upper

75 100

53 0.2 84.0 126.0#

89 0.0 36.3 54.5#

