

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091620\
 Data File : VN063394.D
 Acq On : 17 Sep 2020 3:51
 Operator : JC/MD
 Sample : L3868-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PL-02-091520

Quant Time: Sep 17 05:13:23 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 16 13:05:20 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	228021	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	432953	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	430062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	182975	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	7.99	65	190584	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
35) Dibromofluoromethane	7.55	113	136613	45.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.16%	
50) Toluene-d8	10.06	98	554454	49.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.40%	
62) 4-Bromofluorobenzene	12.38	95	226312	54.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.56%	

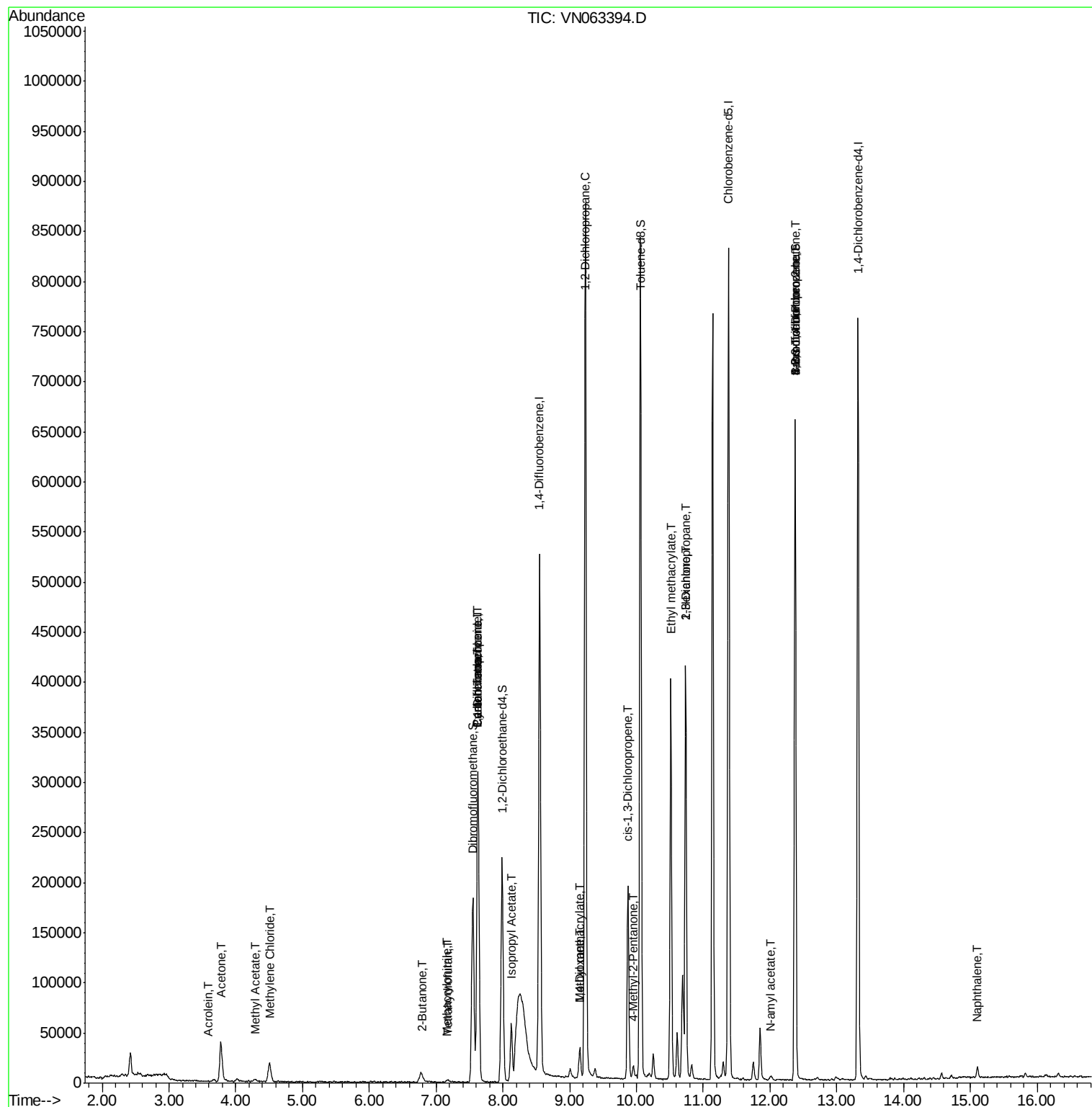
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.59	56	103	0.517	ug/l #	13
16) Acetone	3.78	43	70682	56.661	ug/l	99
18) Methyl Acetate	4.28	43	1800	0.568	ug/l #	57
20) Methylene Chloride	4.51	84	12580	3.980	ug/l	97
25) 2-Butanone	6.80	43	5353	2.790	ug/l #	80
29) Tetrahydrofuran	7.17	42	981	0.749	ug/l #	82
31) Cyclohexane	7.62	56	6909	1.289	ug/l #	18
36) 1,1-Dichloropropene	7.62	75	22429	4.863	ug/l #	47
38) Carbon Tetrachloride	7.63	117	25671	5.452	ug/l #	17
41) Methacrylonitrile	7.15	41	426	0.209	ug/l #	100
43) Isopropyl Acetate	8.13	43	70461	8.705	ug/l	99
45) 1,2-Dichloropropane	9.24	63	1043	0.291	ug/l #	43
48) Methyl methacrylate	9.15	41	4123	1.037	ug/l #	15
49) 1,4-Dioxane	9.16	88	29	0.508	ug/l #	1
51) 4-Methyl-2-Pentanone	9.96	43	8280	1.827	ug/l	96
54) cis-1,3-Dichloropropene	9.87	75	32117	5.570	ug/l #	61
56) Ethyl methacrylate	10.52	69	1204	0.245	ug/l #	1
57) 1,3-Dichloropropane	10.74	76	4241	0.748	ug/l #	42
59) 2-Hexanone	10.74	43	64901	19.768	ug/l #	54
71) Bromoform	12.38	173	524	0.210	ug/l #	1
74) N-amyl acetate	12.00	43	1866	0.269	ug/l #	47
76) 1,2,3-Trichloropropane	12.38	75	125689	27.753	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	125689	76.087	ug/l #	7
95) Naphthalene	15.11	128	9850	0.843	ug/l #	93

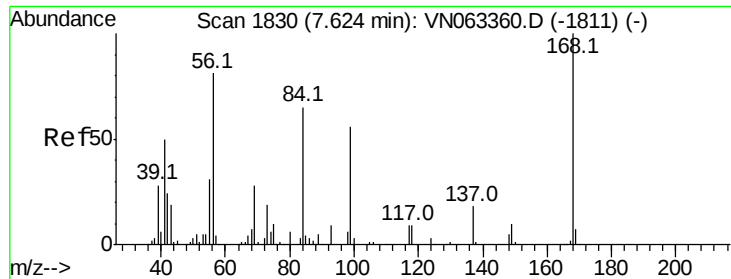
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN091620\
Data File : VN063394.D
Acq On : 17 Sep 2020 3:51
Operator : JC/MD
Sample : L3868-06
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 44 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

Quant Time: Sep 17 05:13:23 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091620W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 16 13:05:20 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: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

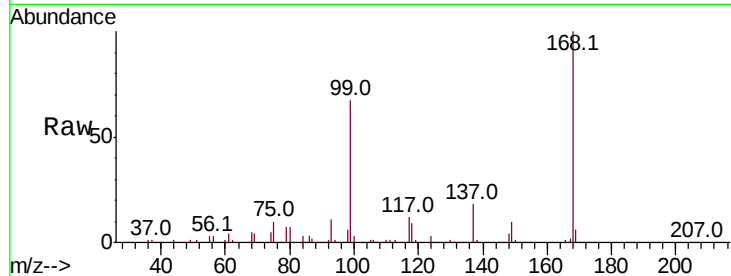
PL-02-091520

Tot Ion:168 Resp: 228021

Ion Ratio Lower Upper

168 100

99 66.6 53.0 79.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.63

100000

80000

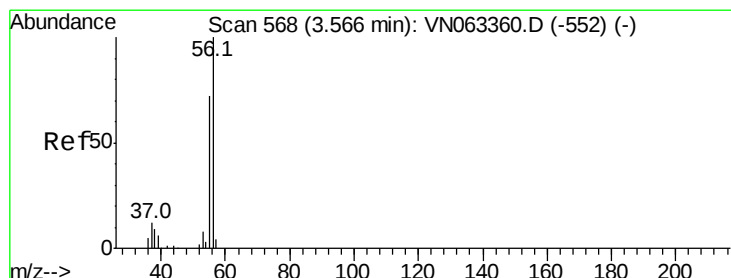
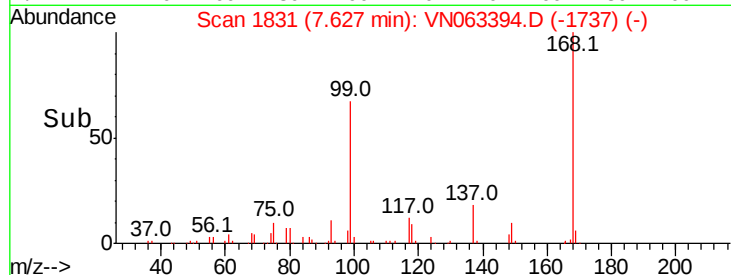
60000

40000

20000

0

Time--> 7.50 7.60 7.70



#13

Acrolein

Concen: 0.517 ug/l

RT: 3.59 min Scan# 576

Delta R.T. 0.03 min

Lab File: VN063394.D

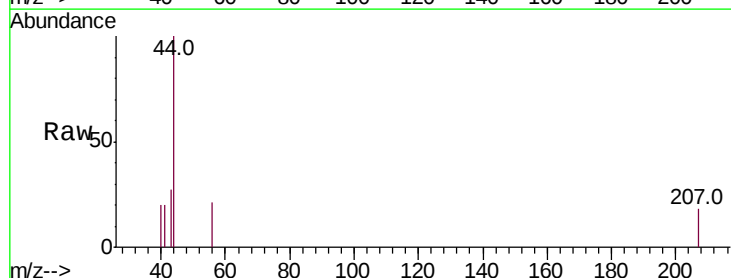
Acq: 17 Sep 2020 3:51

Tgt Ion: 56 Resp: 103

Ion Ratio Lower Upper

56 100

55 0.0 58.2 87.2#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.59

200

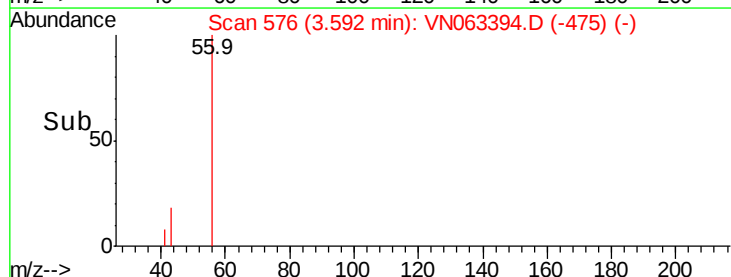
150

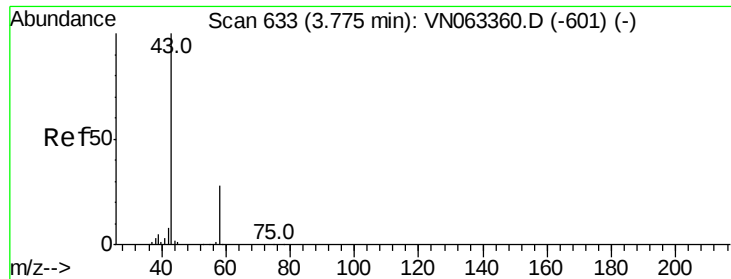
100

50

0

Time--> 3.58 3.59 3.60





#16

Acetone

Concen: 56.661 ug/l

RT: 3.78 min Scan# 633

Delta R.T. 0.00 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

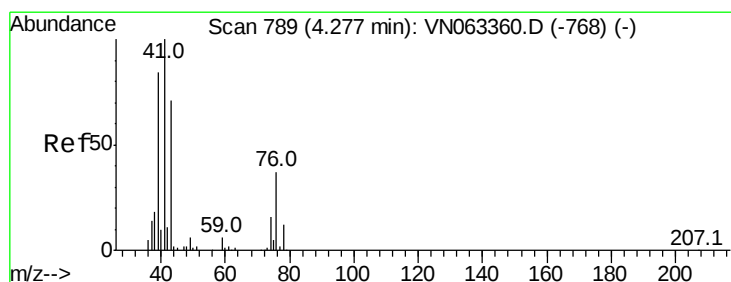
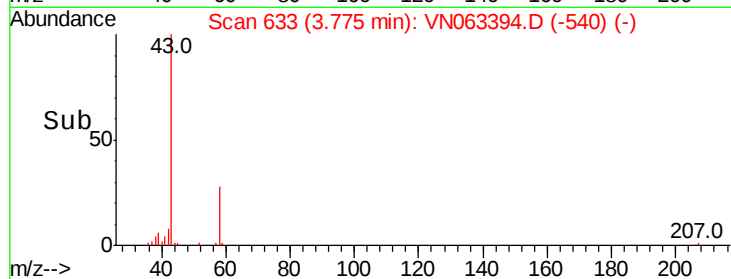
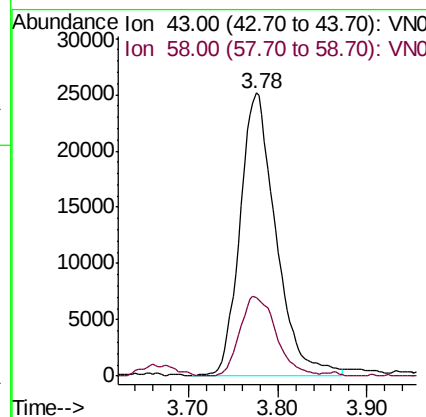
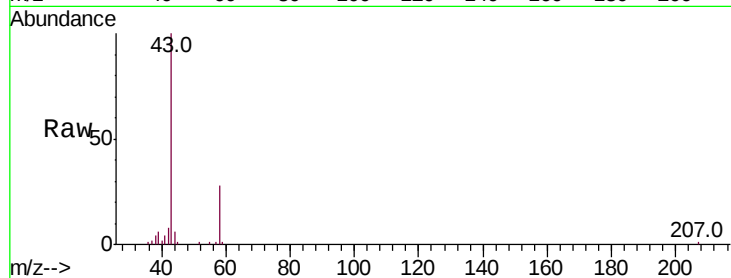
PL-02-091520

Tot Ion: 43 Resp: 70682

Ion Ratio Lower Upper

43 100

58 27.3 22.3 33.5



#18

Methyl Acetate

Concen: 0.568 ug/l

RT: 4.28 min Scan# 790

Delta R.T. 0.00 min

Lab File: VN063394.D

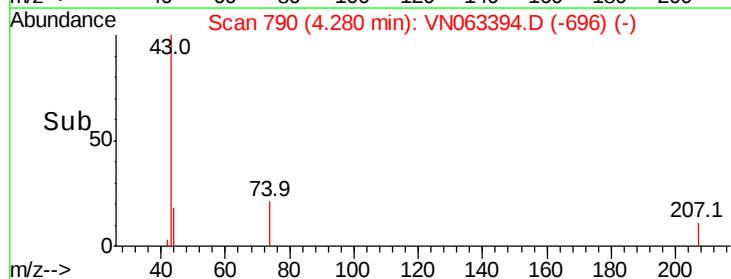
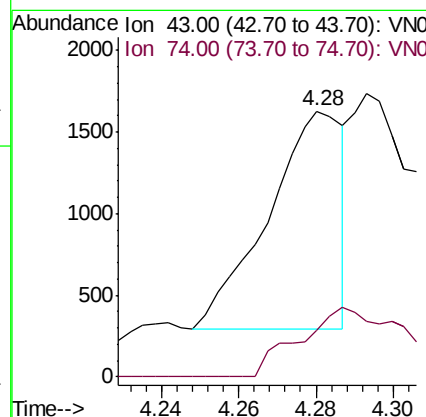
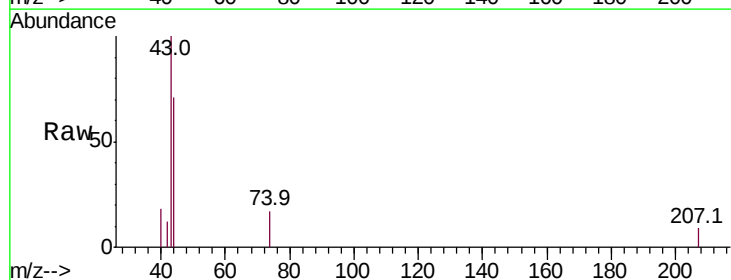
Acq: 17 Sep 2020 3:51

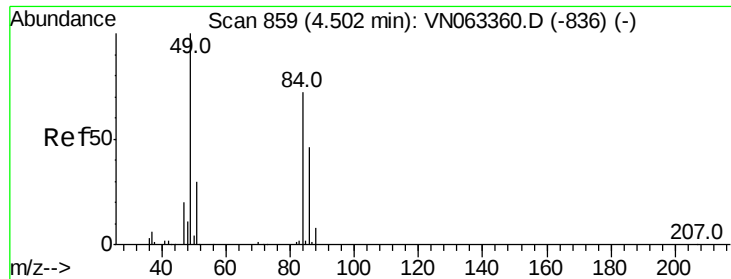
Tgt Ion: 43 Resp: 1800

Ion Ratio Lower Upper

43 100

74 42.2 17.4 26.2#

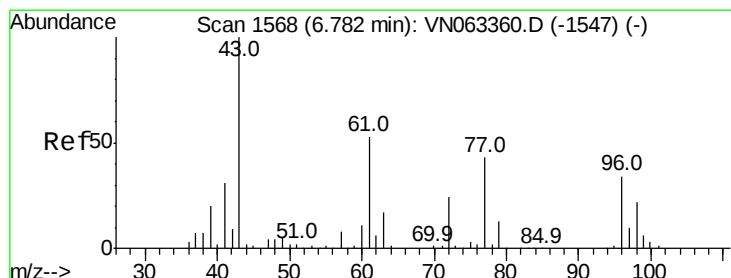
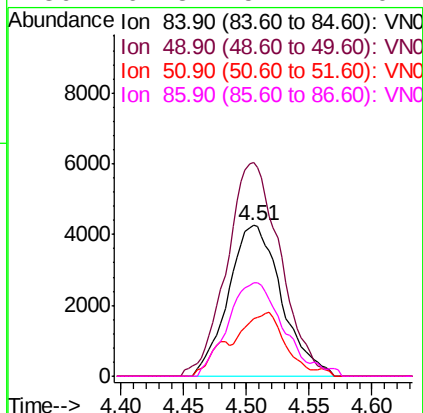
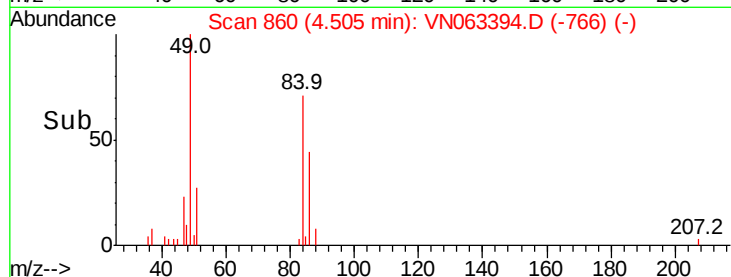
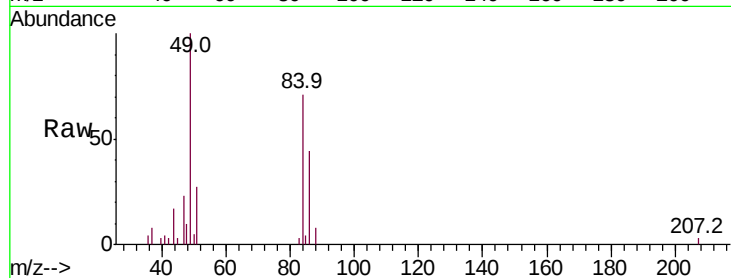




#20
Methvlene Chloride
Concen: 3.980 ug/l
RT: 4.51 min Scan# 860
Delta R.T. 0.00 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

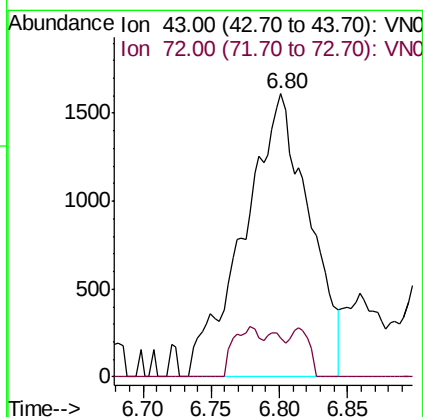
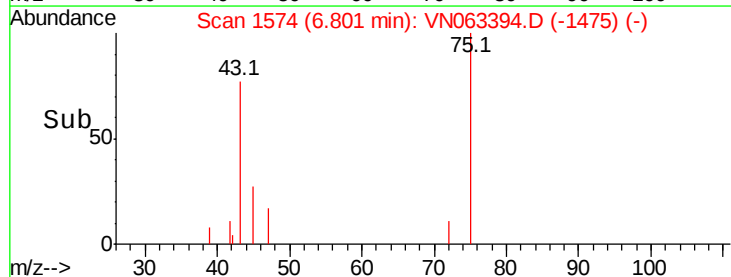
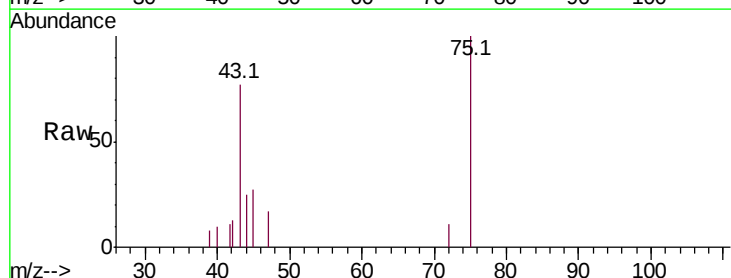
Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

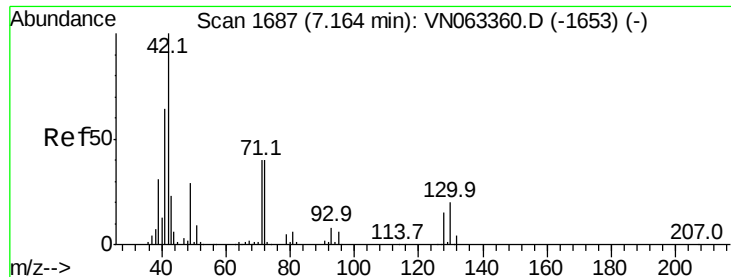
Tot Ion: 84 Resp: 12580
Ion Ratio Lower Upper
84 100
49 141.8 110.7 166.1
51 38.0 32.9 49.3
86 61.8 51.1 76.7



#25
2-Butanone
Concen: 2.790 ug/l
RT: 6.80 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

Tgt Ion: 43 Resp: 5353
Ion Ratio Lower Upper
43 100
72 14.0 19.2 28.8#





#29

Tetrahydrofuran

Concen: 0.749 ug/l

RT: 7.17 min Scan# 1688

Delta R.T. 0.00 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

PL-02-091520

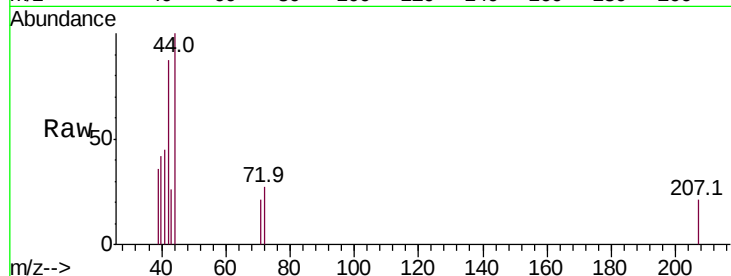
Tot Ion: 42 Resp: 981

Ion Ratio Lower Upper

42 100

72 22.2 32.1 48.1#

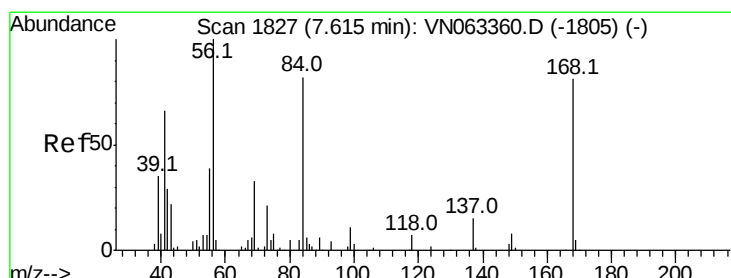
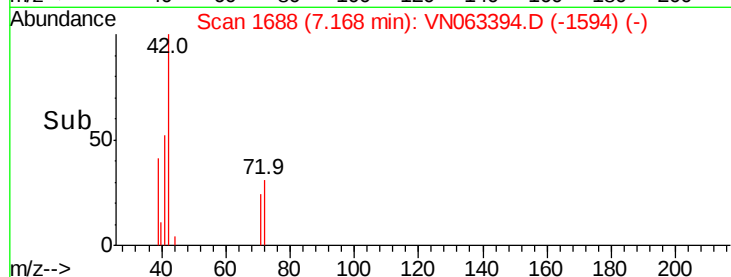
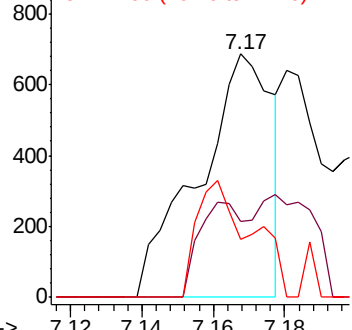
71 35.2 31.2 46.8



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: 1.289 ug/l

RT: 7.62 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

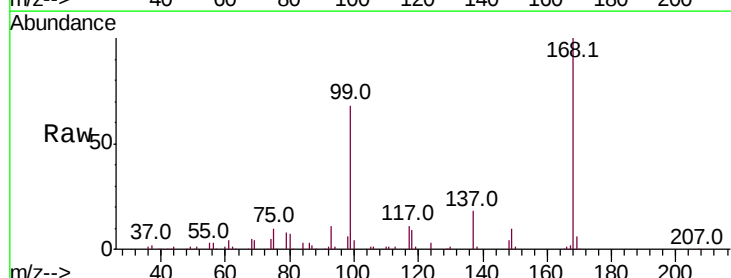
Tgt Ion: 56 Resp: 6909

Ion Ratio Lower Upper

56 100

69 155.0 26.1 39.1#

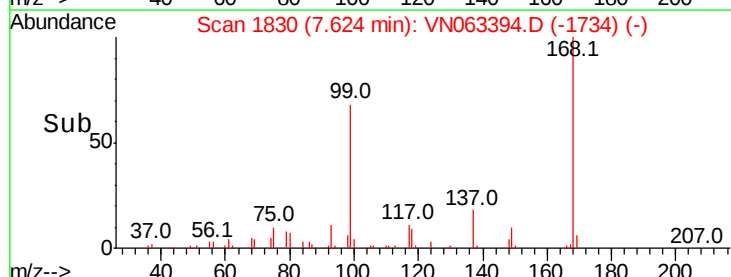
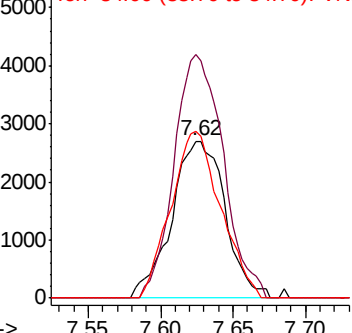
84 106.5 65.4 98.2#

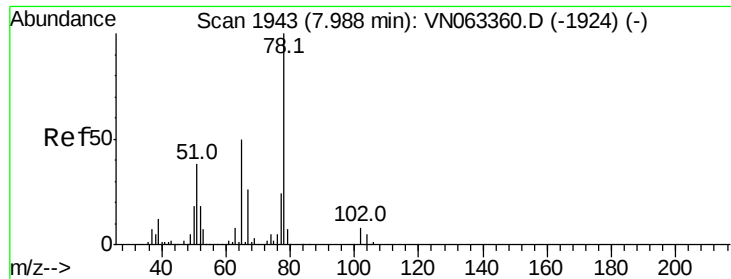


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 49.100 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

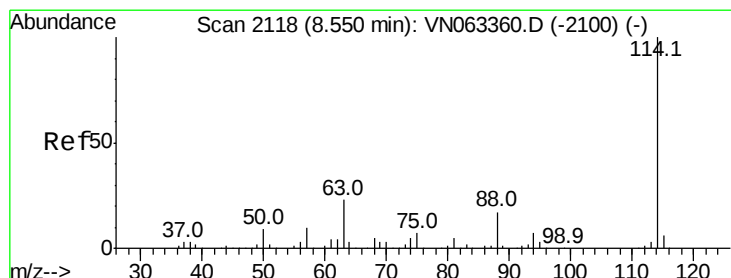
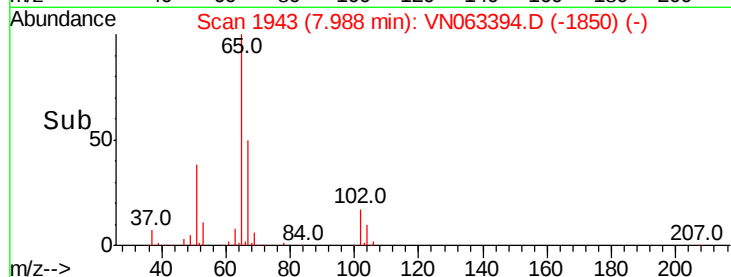
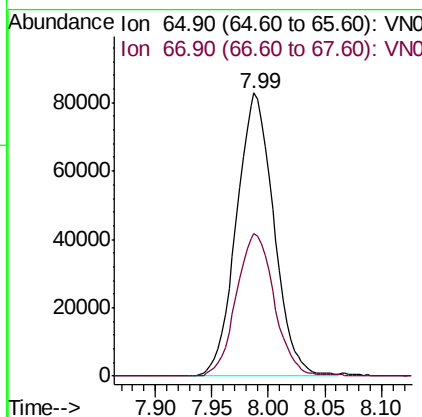
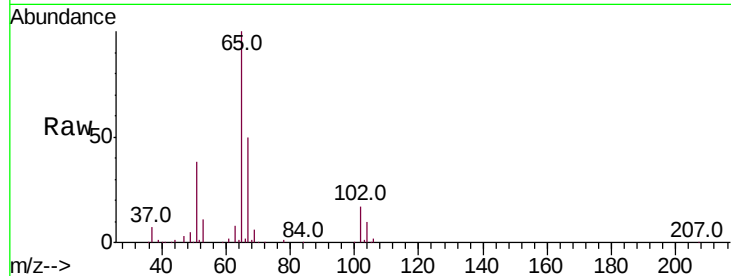
Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

Tot Ion: 65 Resp: 190584

Ion	Ratio	Lower	Upper
65	100		
67	51.3	0.0	104.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2118

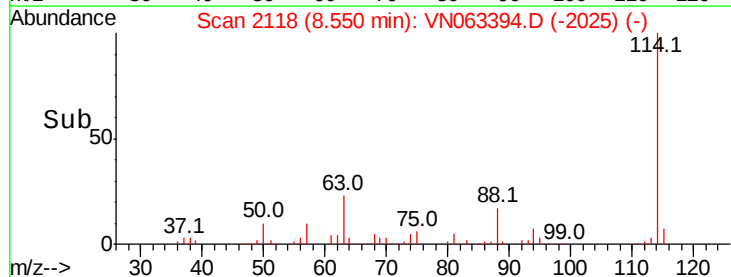
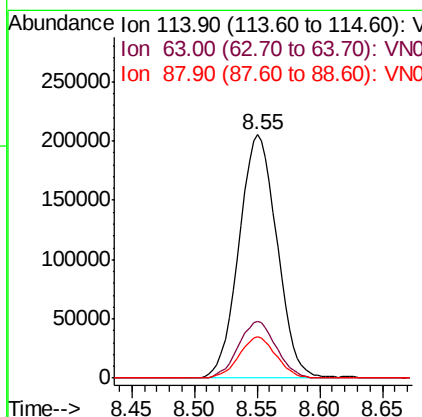
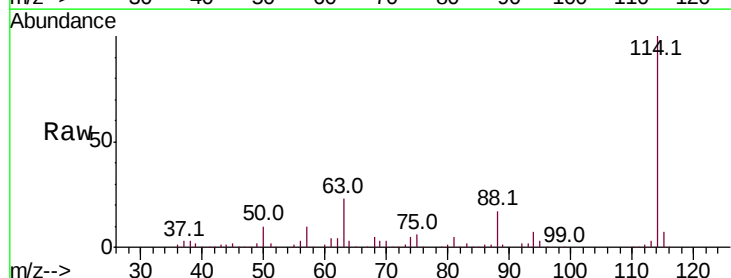
Delta R.T. 0.00 min

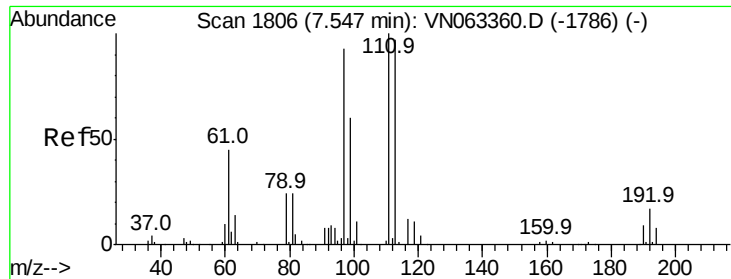
Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Tgt Ion: 114 Resp: 432953

Ion	Ratio	Lower	Upper
114	100		
63	23.4	0.0	46.4
88	16.8	0.0	33.2

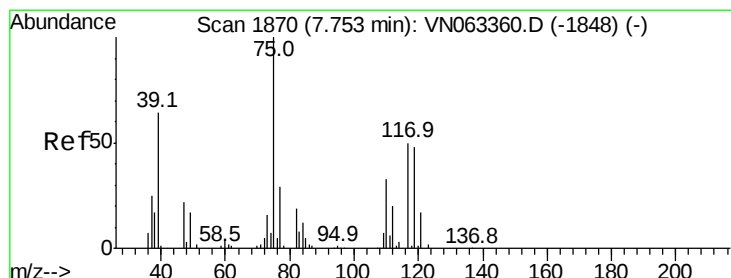
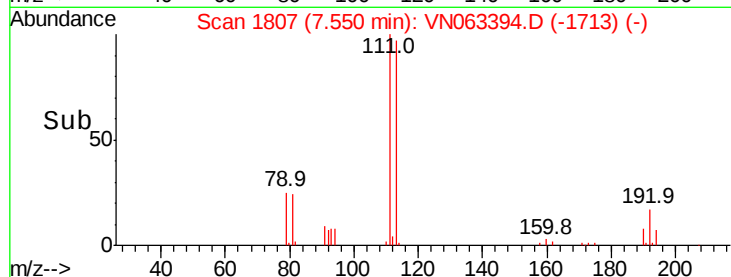
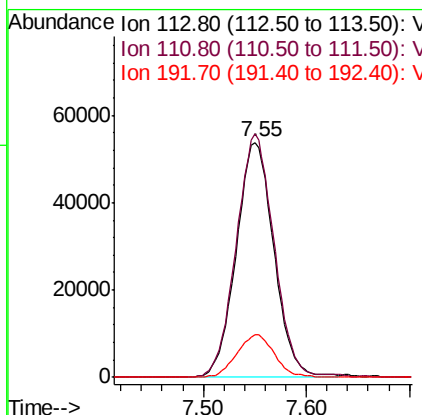
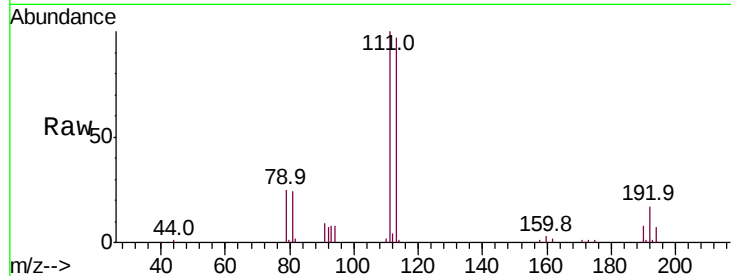




#35
Dibromofluoromethane
Concen: 45.580 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

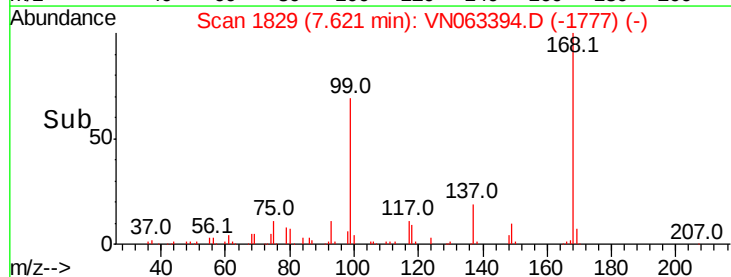
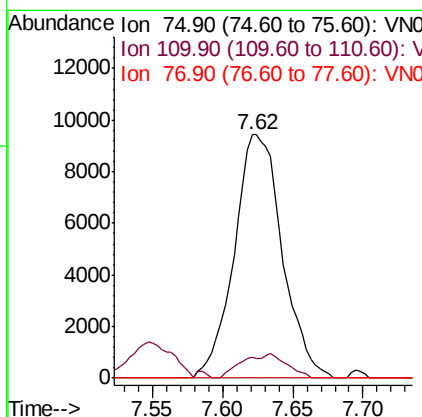
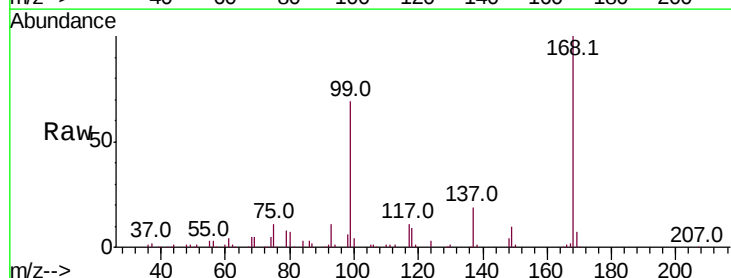
Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

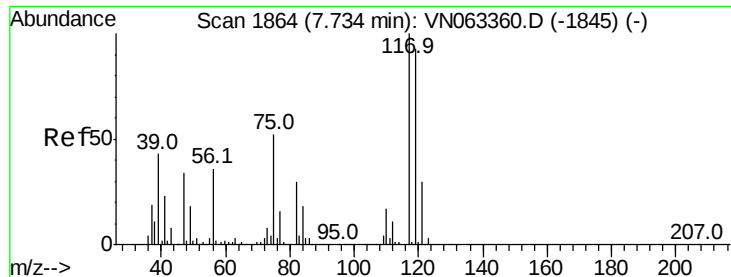
Tot Ion:113 Resp: 136613
Ion Ratio Lower Upper
113 100
111 103.6 82.9 124.3
192 18.1 13.9 20.9



#36
1,1-Dichloropropene
Concen: 4.863 ug/l
RT: 7.62 min Scan# 1829
Delta R.T. -0.13 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

Tgt Ion: 75 Resp: 22429
Ion Ratio Lower Upper
75 100
110 4.5 16.5 49.5#
77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.452 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. -0.11 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

PL-02-091520

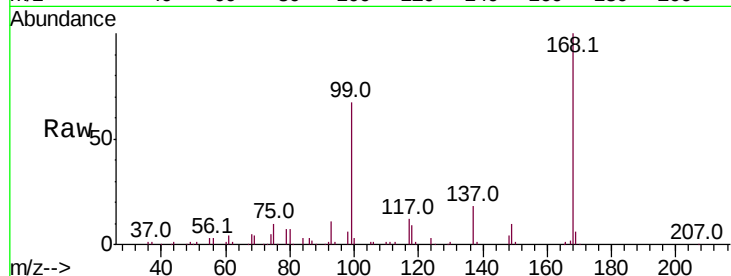
Tot Ion:117 Resp: 25671

Ion Ratio Lower Upper

117 100

119 5.1 74.5 111.7#

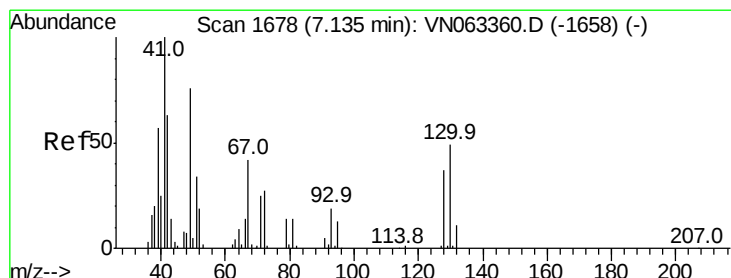
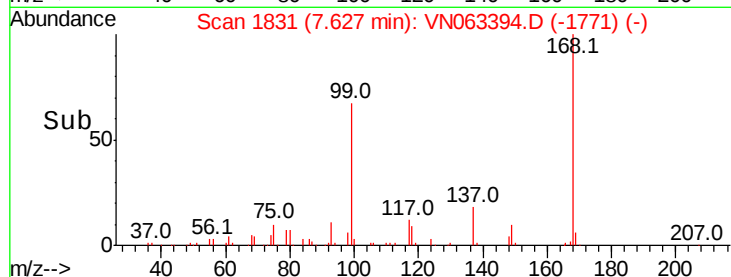
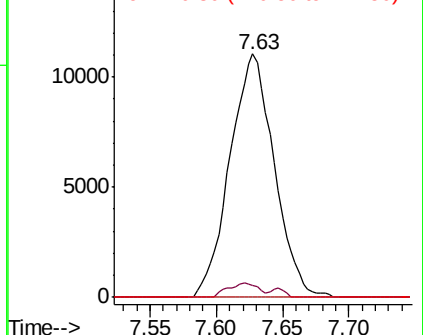
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.209 ug/l

RT: 7.15 min Scan# 1683

Delta R.T. 0.02 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Tgt Ion: 41 Resp: 426

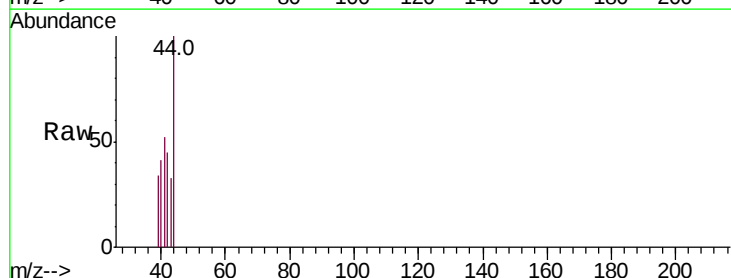
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

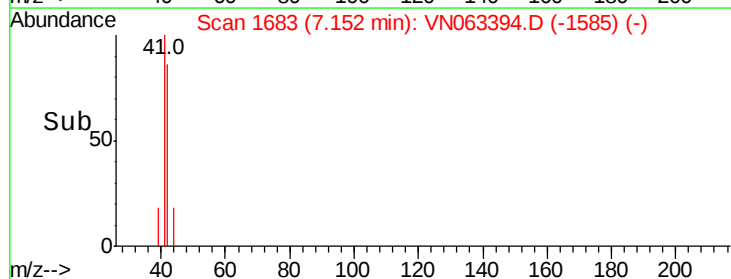
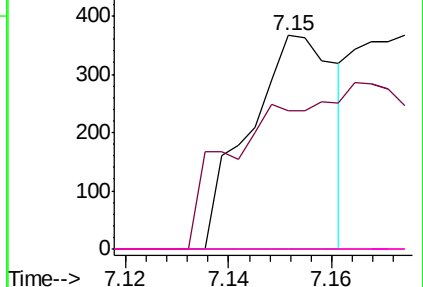


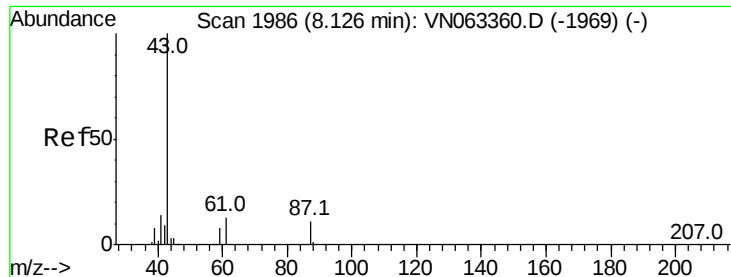
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 8.705 ug/l

RT: 8.13 min Scan# 1986

Delta R.T. 0.00 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

PL-02-091520

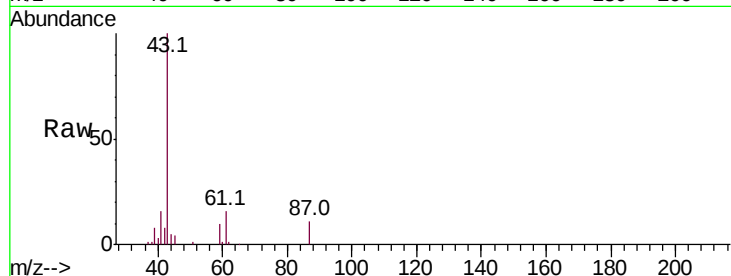
Tot Ion: 43 Resp: 70461

Ion Ratio Lower Upper

43 100

61 17.2 14.2 21.2

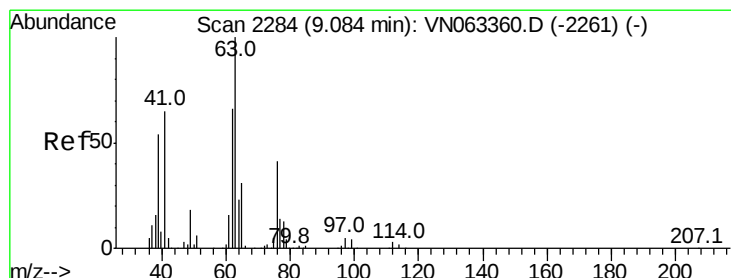
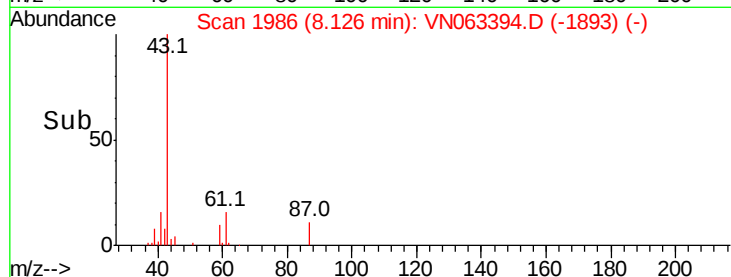
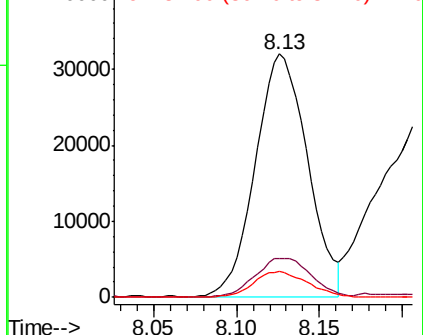
87 11.0 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063360.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063360.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.291 ug/l

RT: 9.24 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN063394.D

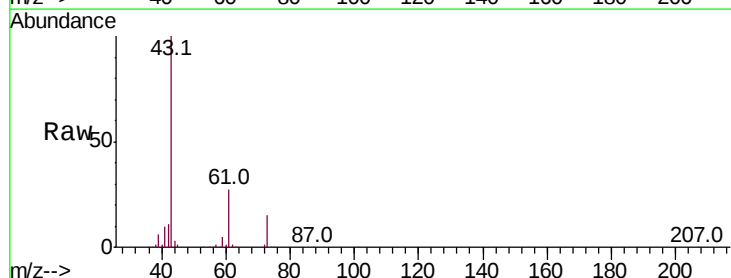
Acq: 17 Sep 2020 3:51

Tgt Ion: 63 Resp: 1043

Ion Ratio Lower Upper

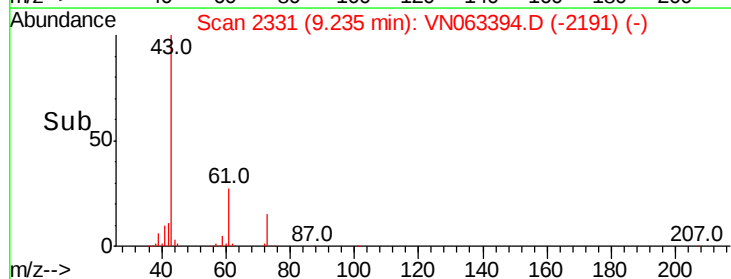
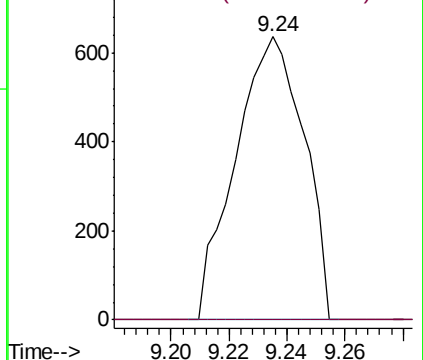
63 100

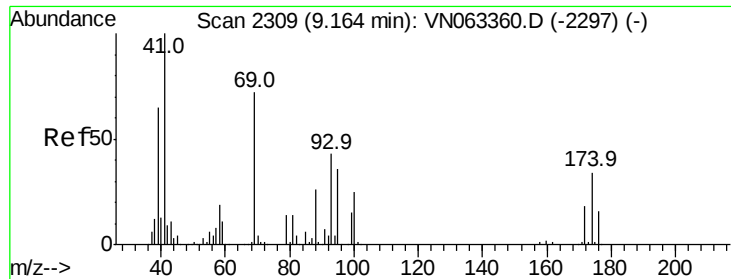
65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VN063360.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN063360.D (-2261) (-)

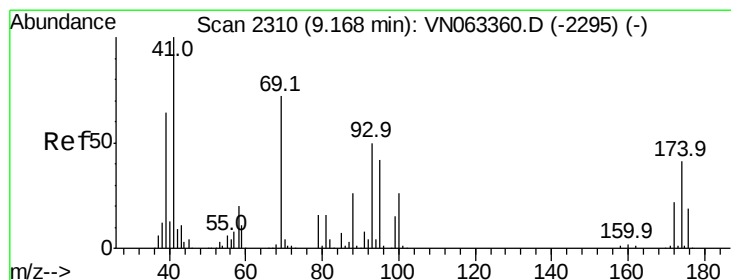
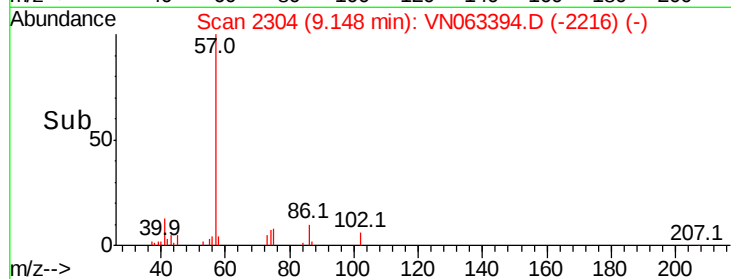
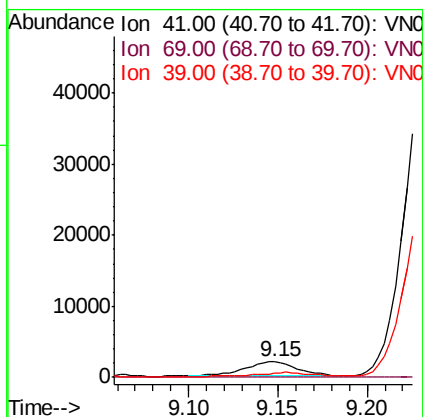
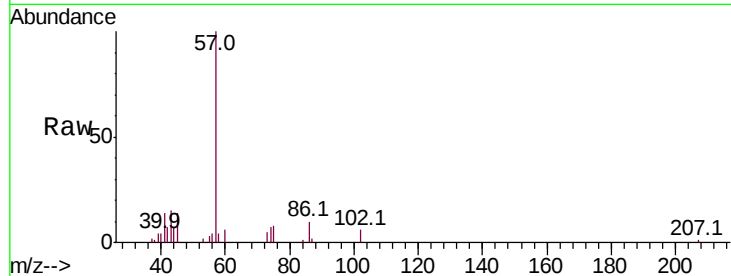




#48
Methvl methacrylate
Concen: 1.037 ug/l
RT: 9.15 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

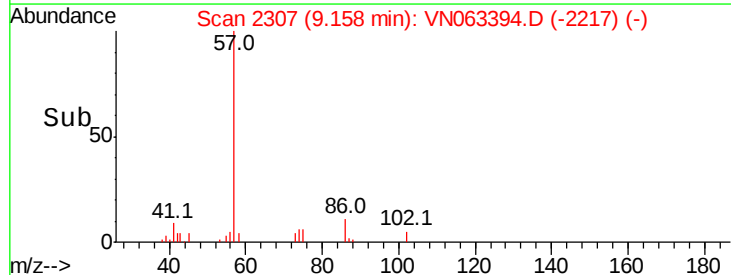
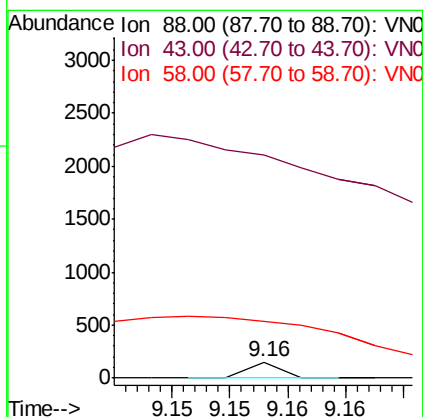
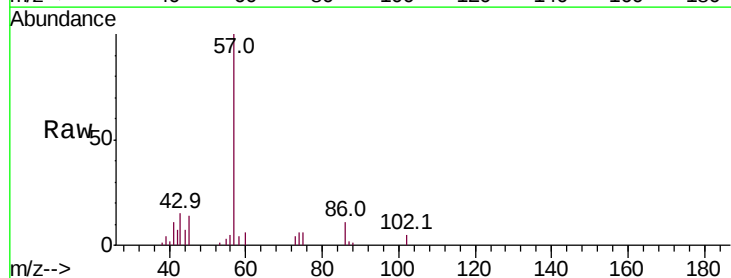
Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

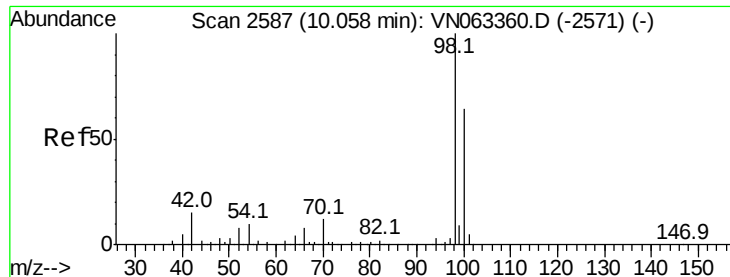
Tot Ion: 41 Resp: 4123
Ion Ratio Lower Upper
41 100
69 0.0 59.3 88.9#
39 0.0 52.9 79.3#



#49
1,4-Dioxane
Concen: 0.508 ug/l
RT: 9.16 min Scan# 2307
Delta R.T. -0.01 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

Tgt Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 32.6 49.0#
58 3858.6 60.0 90.0#





#50

Toluene-d8

Concen: 49.197 ug/l

RT: 10.06 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

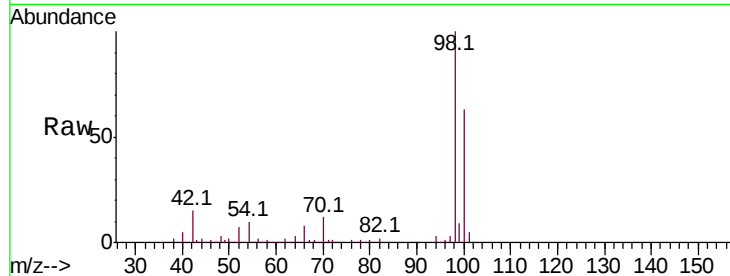
PL-02-091520

Tot Ion: 98 Resp: 554454

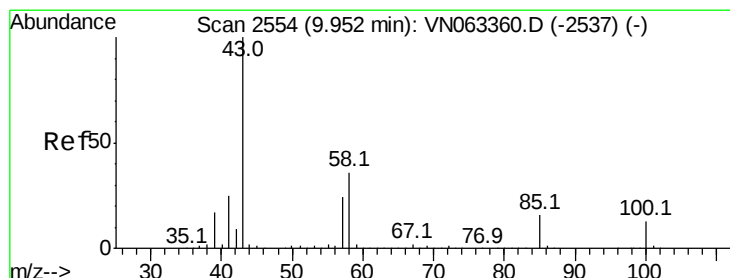
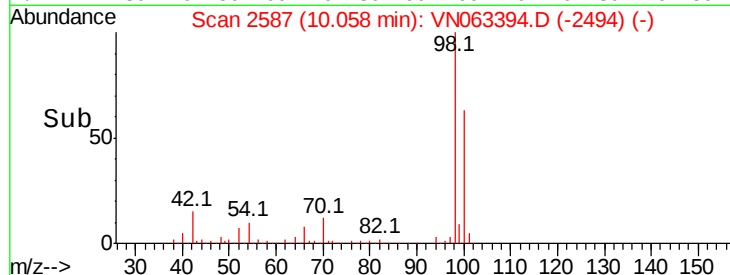
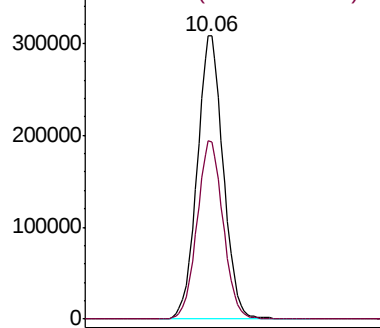
Ion Ratio Lower Upper

98 100

100 62.9 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN063360.D (-2571) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.827 ug/l

RT: 9.96 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN063394.D

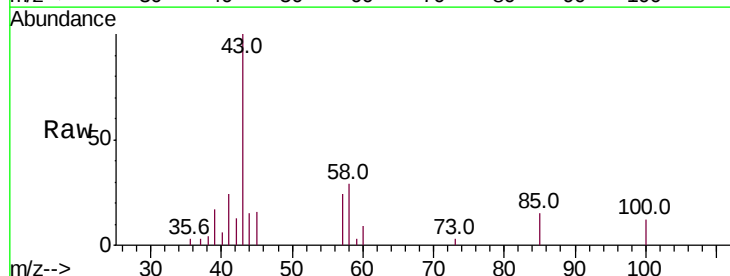
Acq: 17 Sep 2020 3:51

Tgt Ion: 43 Resp: 8280

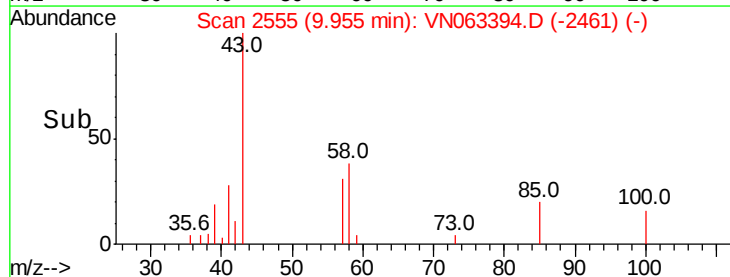
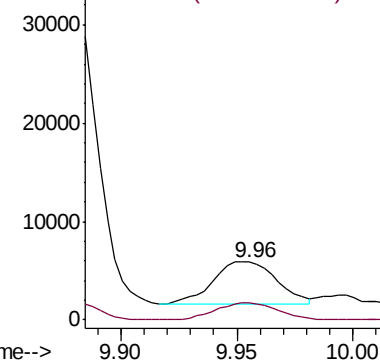
Ion Ratio Lower Upper

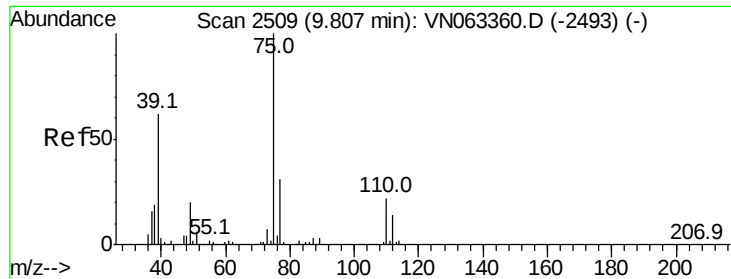
43 100

58 38.6 29.0 43.6



Abundance Ion 43.00 (42.70 to 43.70): VN063360.D (-2537) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.570 ug/l

RT: 9.87 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

PL-02-091520

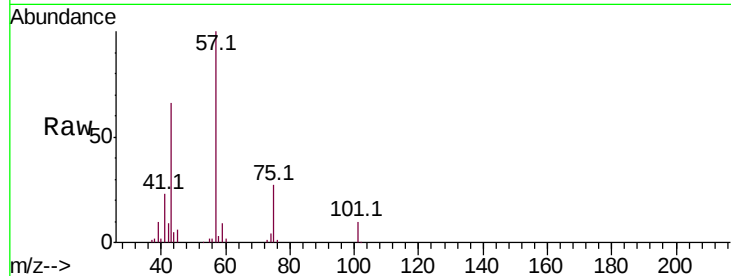
Tot Ion: 75 Resp: 32117

Ion Ratio Lower Upper

75 100

77 0.0 24.6 37.0#

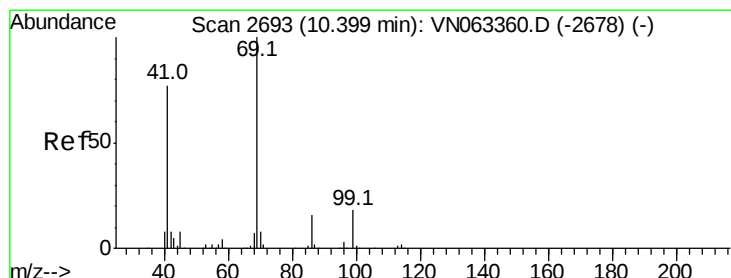
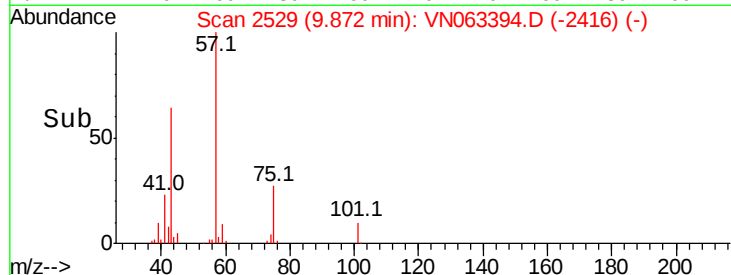
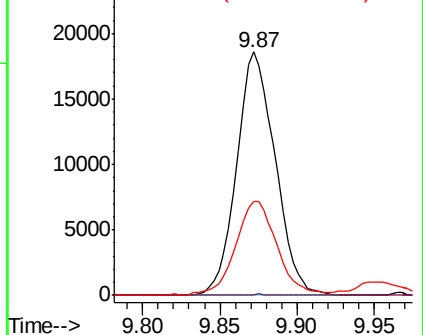
39 38.7 49.8 74.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#56

Ethyl methacrylate

Concen: 0.245 ug/l

RT: 10.52 min Scan# 2730

Delta R.T. 0.12 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

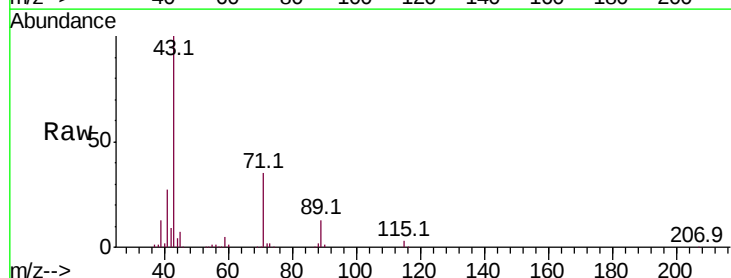
Tgt Ion: 69 Resp: 1204

Ion Ratio Lower Upper

69 100

41 6909.9 61.0 91.6#

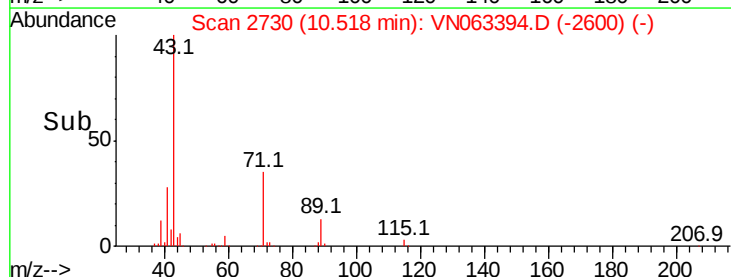
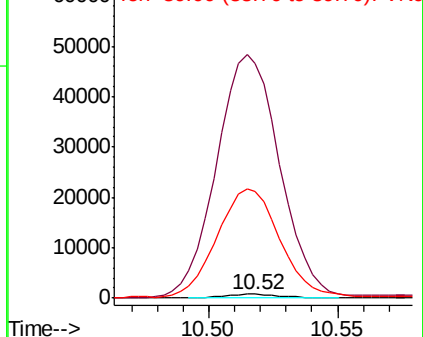
39 3111.0 39.2 58.8#

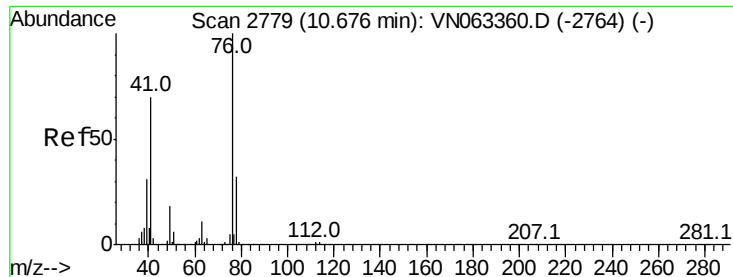


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

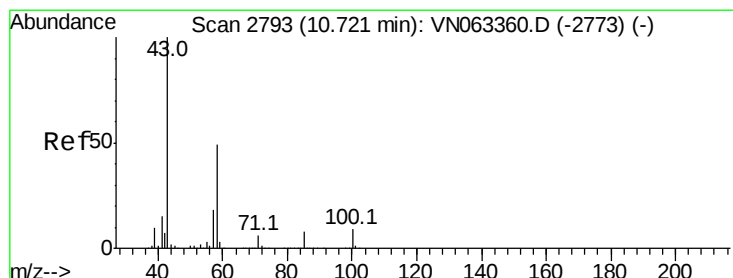
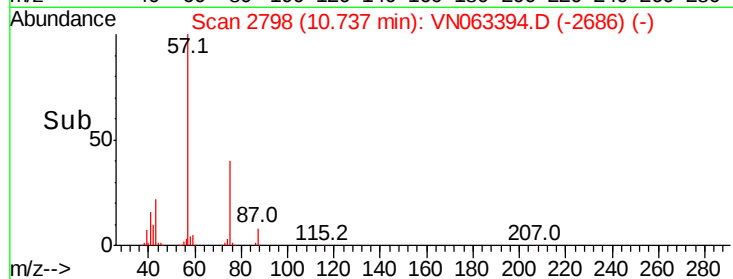
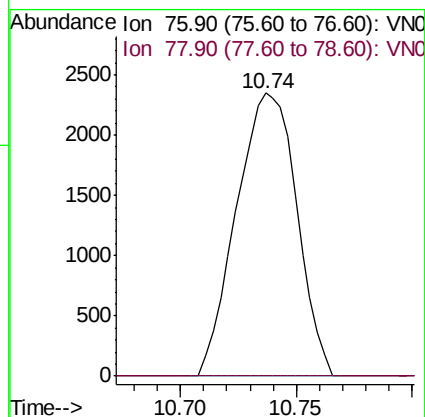
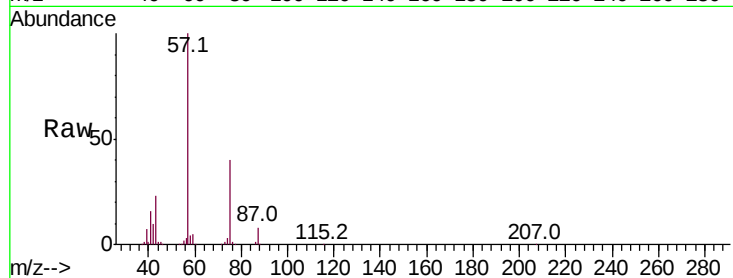




#57
 1,3-Dichloropropane
 Concen: 0.748 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.06 min
 Lab File: VN063394.D
 Acq: 17 Sep 2020 3:51

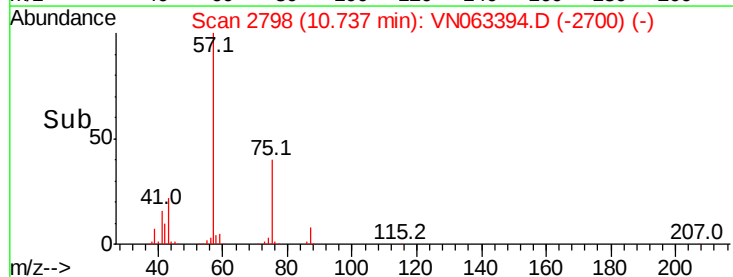
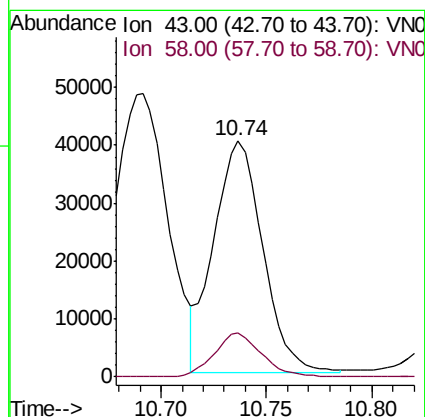
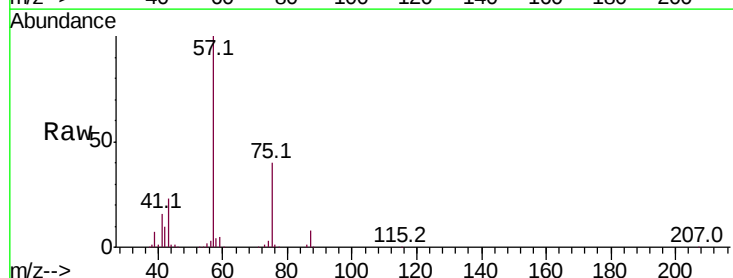
Instrument :
 MSVOA_N
 ClientSampled :
 PL-02-091520

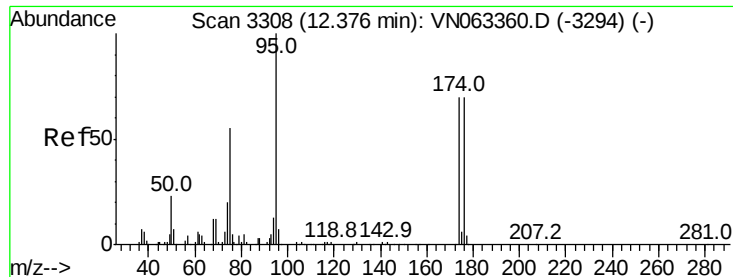
Tot Ion: 76 Resp: 4241
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 19.768 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN063394.D
 Acq: 17 Sep 2020 3:51

Tgt Ion: 43 Resp: 64901
 Ion Ratio Lower Upper
 43 100
 58 18.2 24.7 74.1#

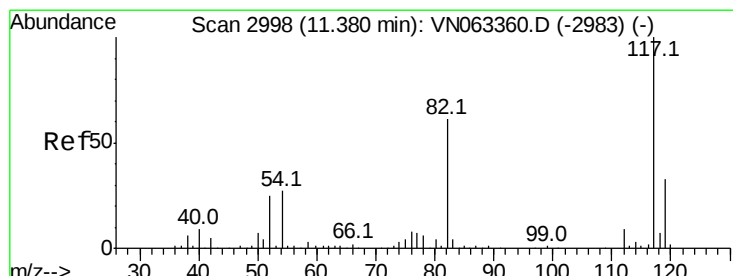
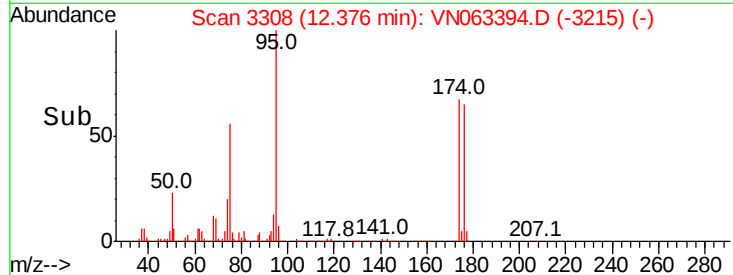
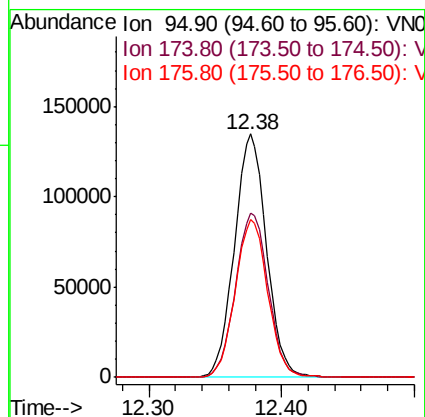
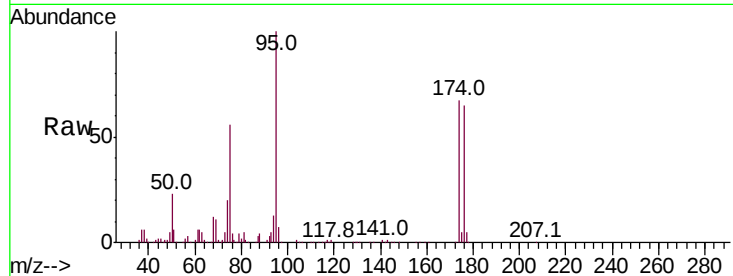




#62
4-Bromofluorobenzene
Concen: 54.778 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

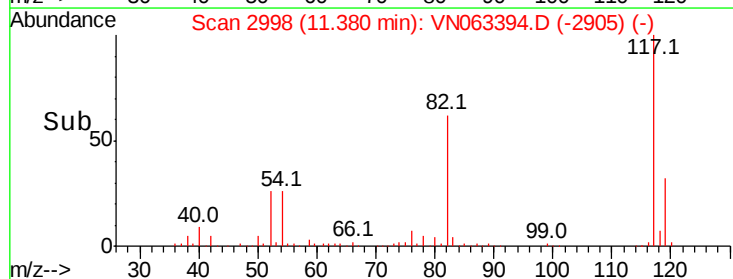
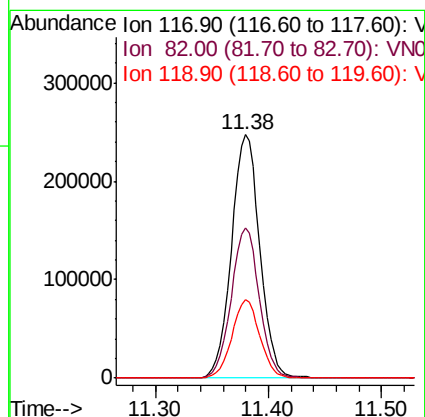
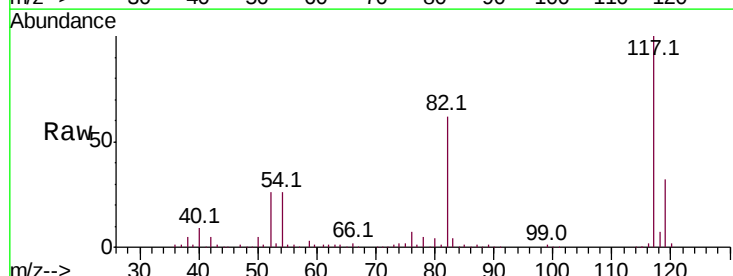
Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

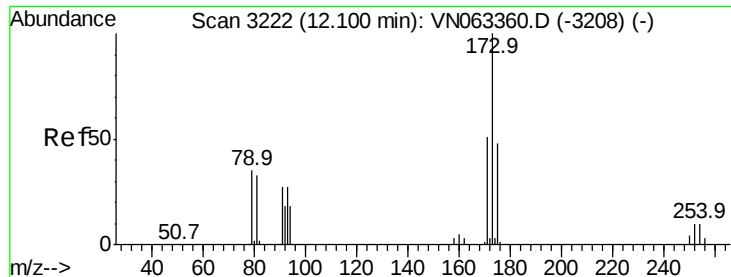
Tot Ion	95	Resp	226312
Ion Ratio	100		
Lower			
Upper			
174	69.1	0.0	140.8
176	65.9	0.0	137.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

Tgt Ion	117	Resp	430062
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td></td> <td></td> <td></td>			
Upper <td></td> <td></td> <td></td>			
82	61.8	49.2	73.8
119	32.1	26.2	39.4





#71

Bromoform

Concen: 0.210 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

PL-02-091520

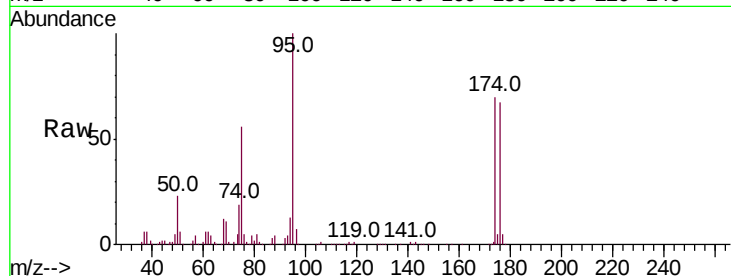
Tot Ion:173 Resp: 524

Ion Ratio Lower Upper

173 100

175 1859.9 24.0 72.0#

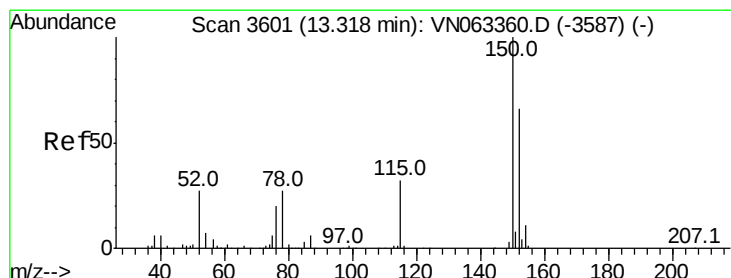
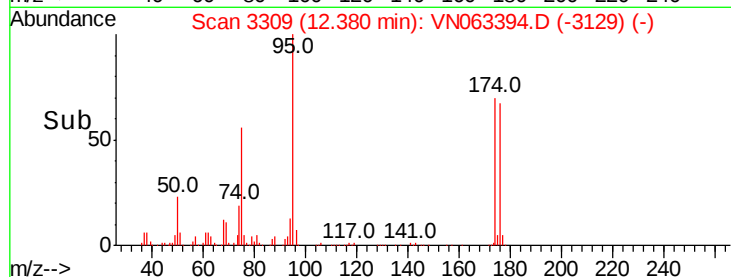
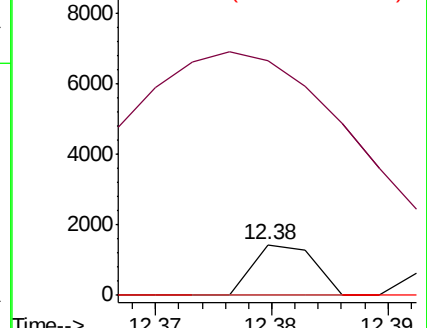
254 0.0 0.0 0.0



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: VN063394.D

Acq: 17 Sep 2020 3:51

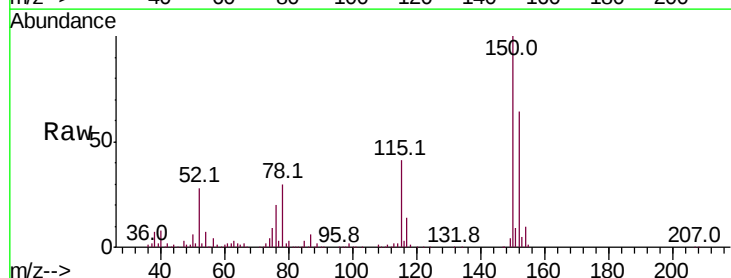
Tgt Ion:152 Resp: 182975

Ion Ratio Lower Upper

152 100

115 65.0 32.2 96.6

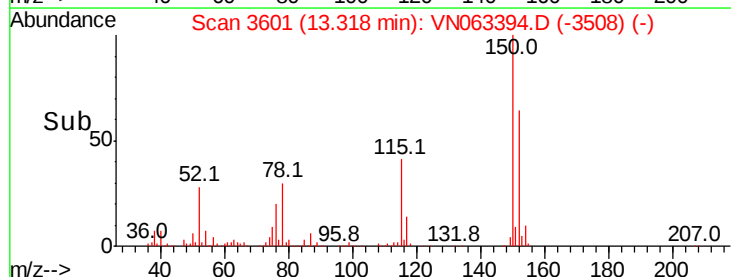
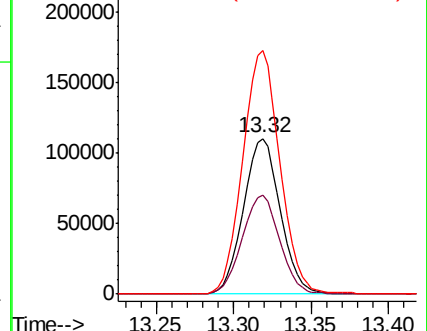
150 158.1 0.0 343.4

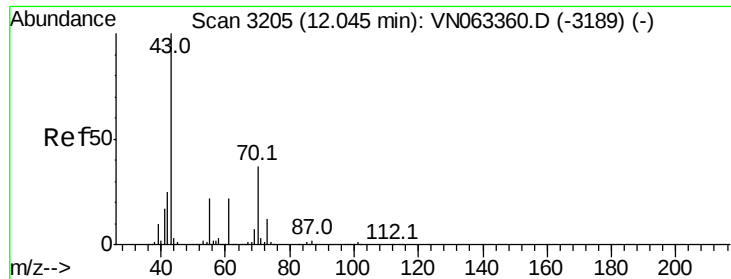


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 0.269 ug/l

RT: 12.00 min Scan# 3191

Delta R.T. -0.04 min

Lab File: VN063394.D

Acq: 17 Sep 2020 3:51

Instrument :

MSVOA_N

ClientSampleId :

PL-02-091520

Tot Ion: 43 Resp: 1866

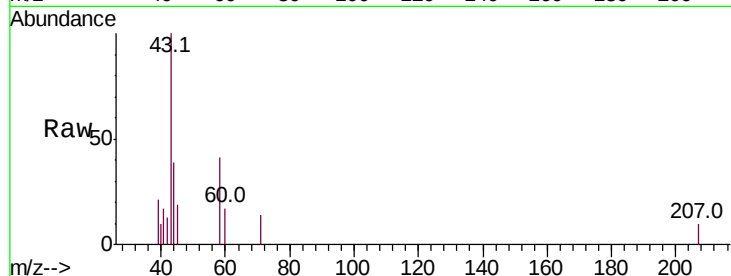
Ion Ratio Lower Upper

43 100

70 0.0 29.6 44.4#

55 1.6 17.7 26.5#

61 0.0 17.4 26.2#

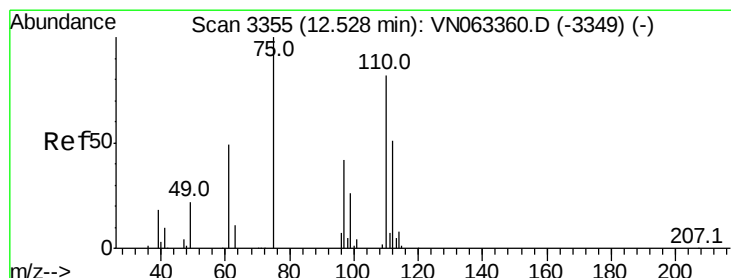
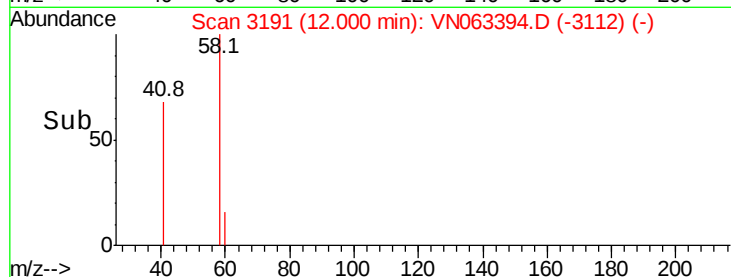
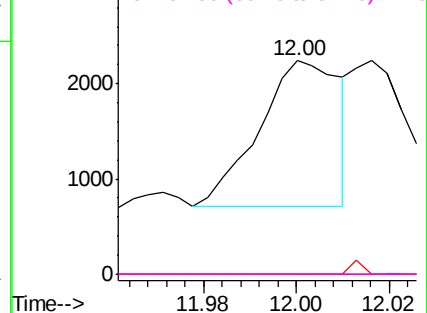


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 27.753 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN063394.D

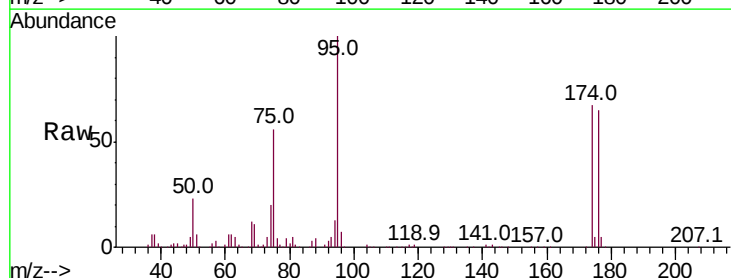
Acq: 17 Sep 2020 3:51

Tgt Ion: 75 Resp: 125689

Ion Ratio Lower Upper

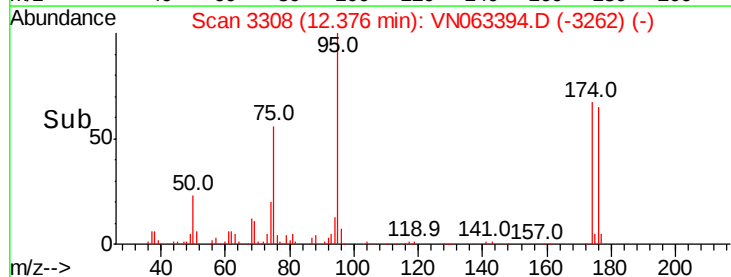
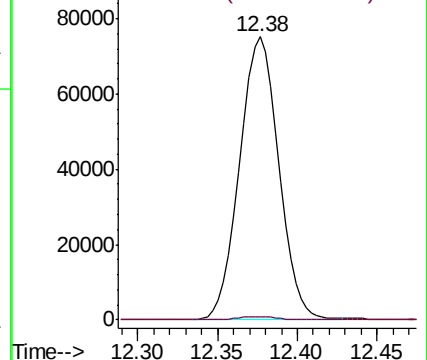
75 100

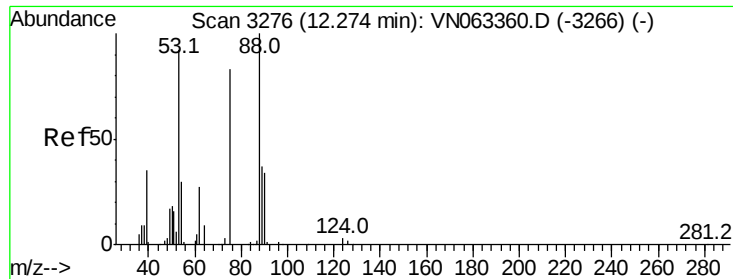
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

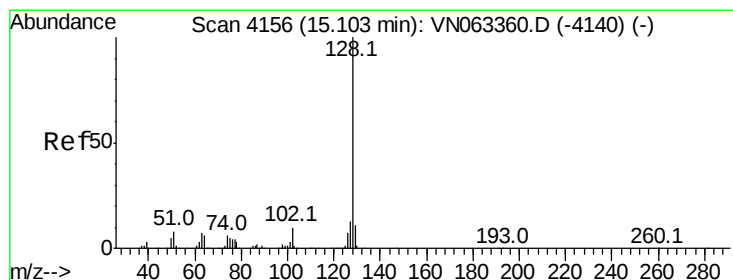
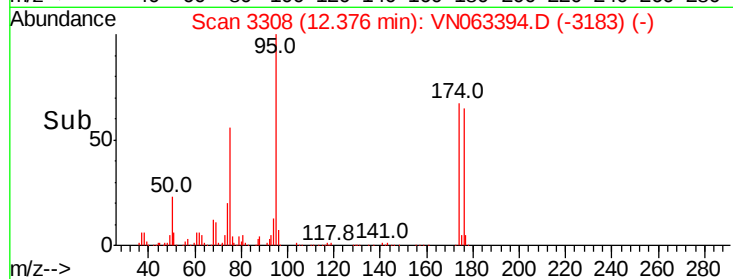
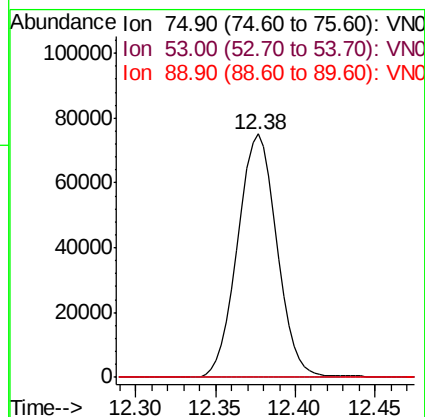
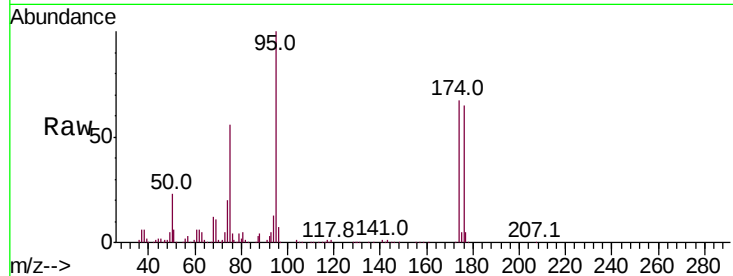




#81
trans-1,4-Dichloro-2-butene
Concen: 76.087 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.10 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

Instrument :
MSVOA_N
ClientSampleId :
PL-02-091520

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	85.7	128.5#
89	0.0	38.0	57.0#



#95
Naphthalene
Concen: 0.843 ug/l
RT: 15.11 min Scan# 4157
Delta R.T. 0.00 min
Lab File: VN063394.D
Acq: 17 Sep 2020 3:51

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.6	15.8
129	6.6	8.8	13.2#

