

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN100920\
 Data File : VN064066.D
 Acq On : 10 Oct 2020 4:01
 Operator : JC/MD
 Sample : L4317-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 40 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 11935

Quant Time: Oct 10 04:43:49 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N093020W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 01 01:46:38 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	204496	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	406172	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	416429	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	153580	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	181497	53.72	ug/l	0.00
Spiked Amount			Recovery	=	107.44%	
35) Dibromofluoromethane	7.55	113	135579	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	
50) Toluene-d8	10.06	98	516206	48.32	ug/l	0.00
Spiked Amount			Recovery	=	96.64%	
62) 4-Bromofluorobenzene	12.38	95	192518	47.94	ug/l	0.00
Spiked Amount			Recovery	=	95.88%	

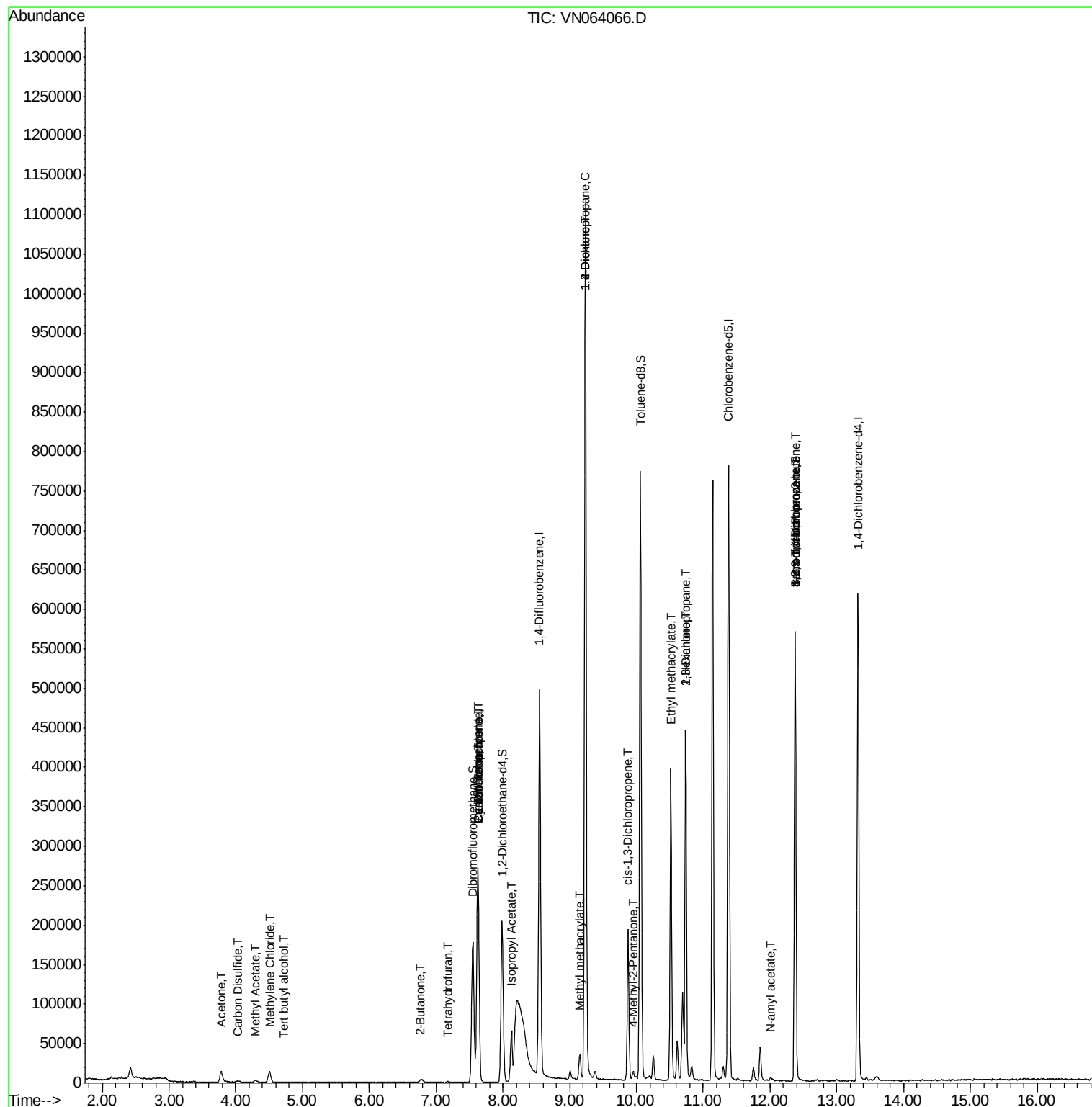
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	93	0.249	ug/l #	71
16) Acetone	3.78	43	26164	25.158	ug/l	98
17) Carbon Disulfide	4.02	76	148	0.727	ug/l #	76
18) Methyl Acetate	4.29	43	4273	1.582	ug/l #	80
20) Methylene Chloride	4.50	84	9426	4.047	ug/l	89
25) 2-Butanone	6.78	43	510	0.346	ug/l #	51
29) Tetrahydrofuran	7.17	42	493	0.499	ug/l #	87
31) Cyclohexane	7.63	56	5957	1.519	ug/l #	30
36) 1,1-Dichloropropene	7.63	75	18701	4.545	ug/l #	47
38) Carbon Tetrachloride	7.63	117	22776	4.936	ug/l #	14
43) Isopropyl Acetate	8.13	43	75488	11.194	ug/l	99
45) 1,2-Dichloropropane	9.23	63	1190	0.375	ug/l #	44
48) Methyl methacrylate	9.14	41	5360	1.609	ug/l #	33
49) 1,4-Dioxane	9.24	88	104	2.196	ug/l #	1
51) 4-Methyl-2-Pentanone	9.95	43	7861	1.986	ug/l	97
54) cis-1,3-Dichloropropene	9.87	75	30039	5.938	ug/l #	65
56) Ethyl methacrylate	10.51	69	2687	0.650	ug/l #	1
57) 1,3-Dichloropropane	10.73	76	3977	0.806	ug/l #	43
59) 2-Hexanone	10.74	43	68522	23.309	ug/l #	56
71) Bromoform	12.38	173	666	0.266	ug/l #	1
74) N-amyl acetate	12.01	43	2706	2.713	ug/l #	50
76) 1,2,3-Trichloropropane	12.38	75	104454	30.853	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	104454	88.862	ug/l #	6

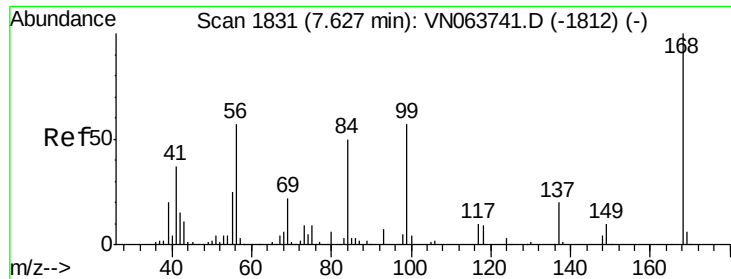
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Oct 01 01:46:38 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: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampleId :

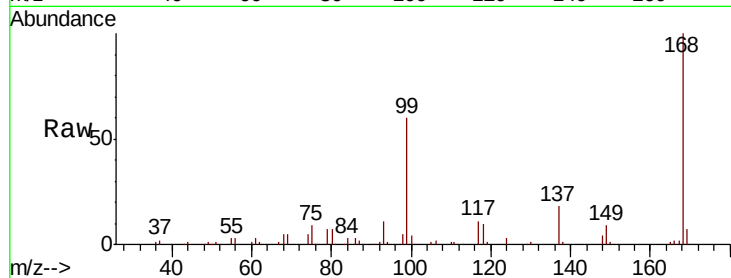
11935

Tot Ion:168 Resp: 204496

Ion Ratio Lower Upper

168 100

99 60.4 51.8 77.6



Abundance Ion 167.90 (167.60 to 168.60): VN063741.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN063741.D (-1812) (-)

7.63

80000

60000

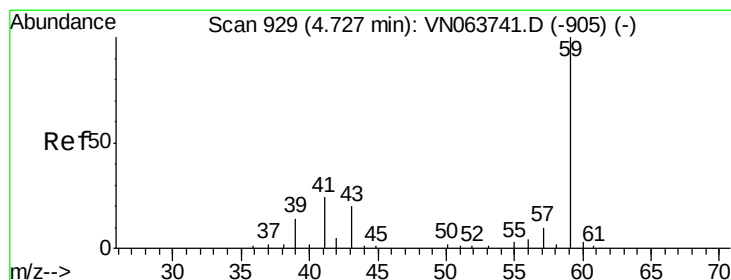
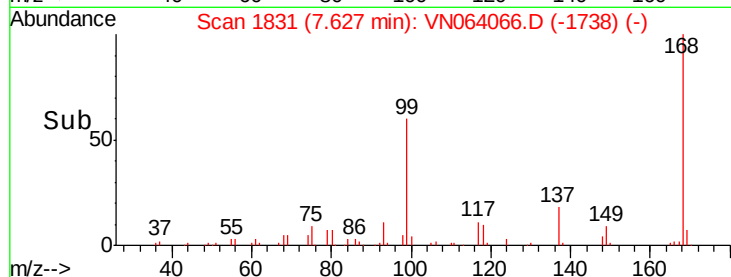
40000

20000

0

7.55 7.60 7.65 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.249 ug/l

RT: 4.71 min Scan# 923

Delta R.T. -0.02 min

Lab File: VN064066.D

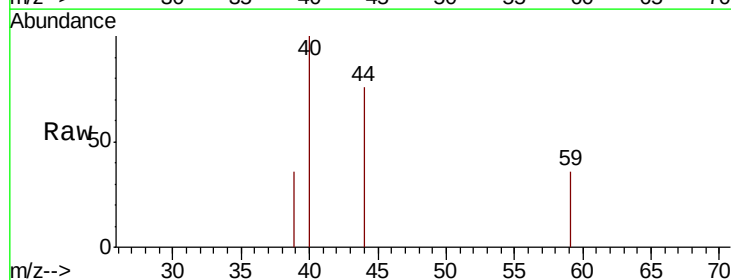
Acq: 10 Oct 2020 4:01

Tgt Ion: 59 Resp: 93

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



Abundance Ion 59.00 (58.70 to 59.70): VN063741.D (-905) (-)

Ion 57.00 (56.70 to 57.70): VN063741.D (-905) (-)

4.71

200

150

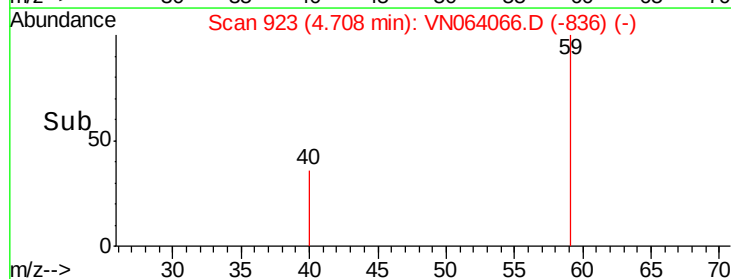
100

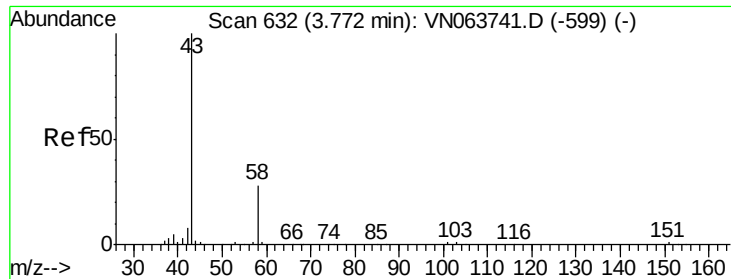
50

0

4.69 4.70 4.71 4.72

Time-->





#16

Acetone

Concen: 25.158 ug/l

RT: 3.78 min Scan# 635

Delta R.T. 0.01 min

Lab File: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampled :

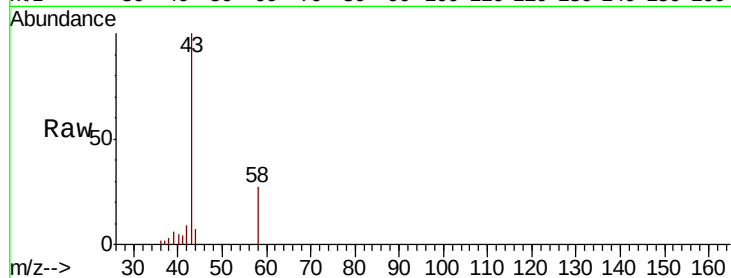
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Tot Ion: 43 Resp: 26164

Ion Ratio Lower Upper

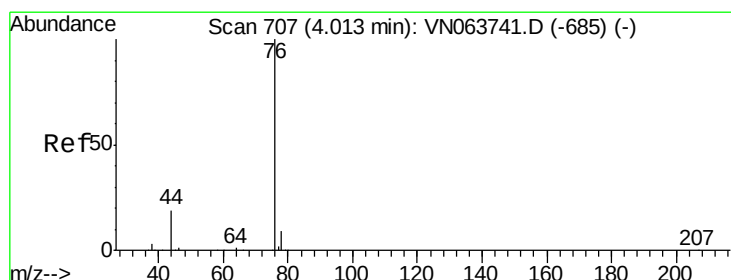
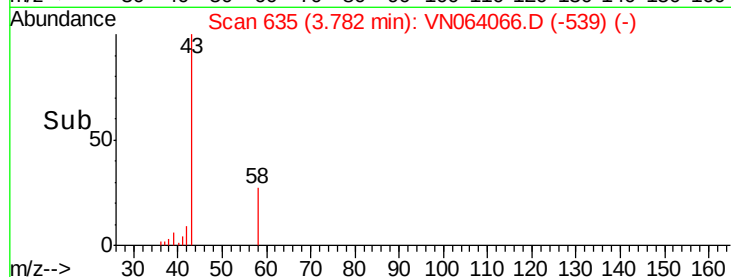
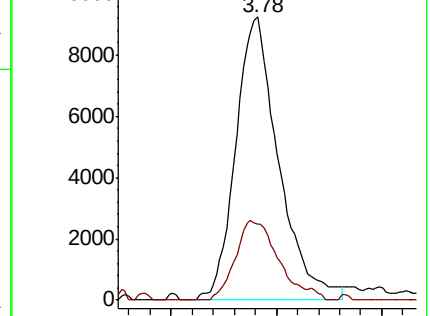
43 100

58 26.9 22.3 33.5



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#17

Carbon Disulfide

Concen: 0.727 ug/l

RT: 4.02 min Scan# 708

Delta R.T. 0.00 min

Lab File: VN064066.D

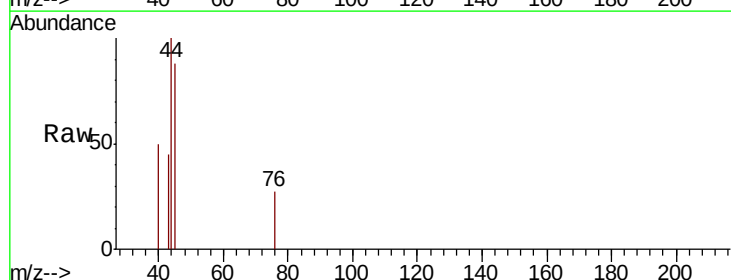
Acq: 10 Oct 2020 4:01

Tgt Ion: 76 Resp: 148

Ion Ratio Lower Upper

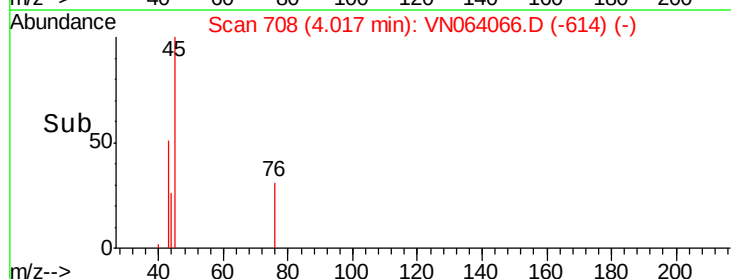
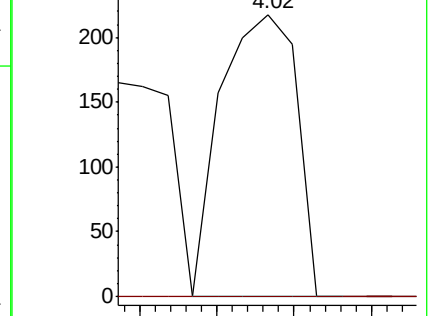
76 100

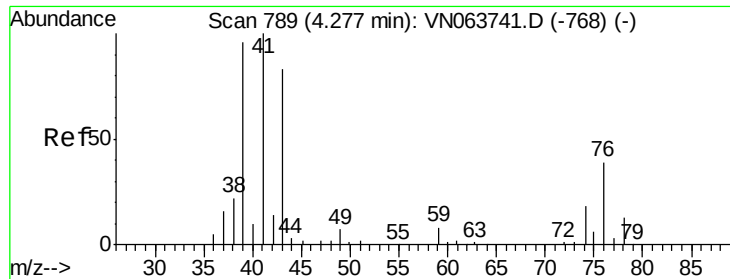
78 0.0 7.0 10.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

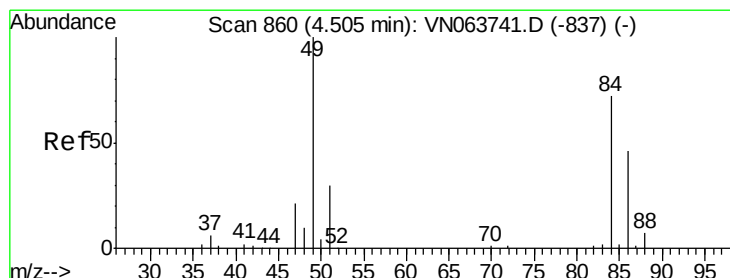
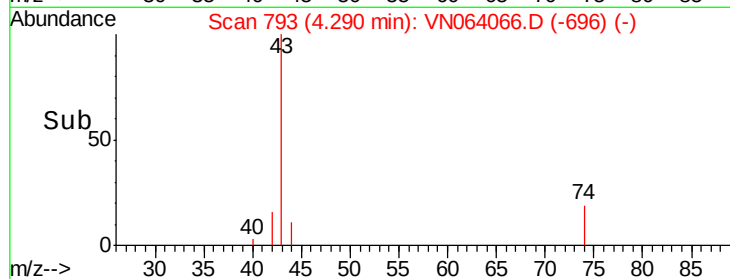
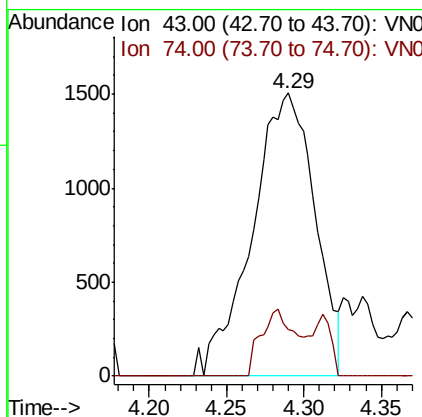
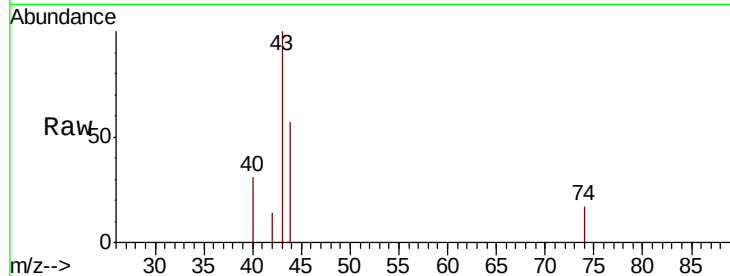




#18
Methyl Acetate
Concen: 1.582 ug/l
RT: 4.29 min Scan# 793
Delta R.T. 0.01 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

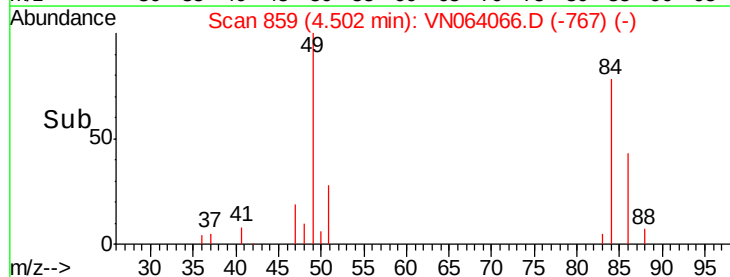
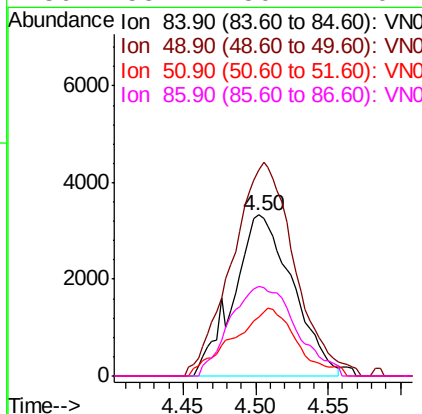
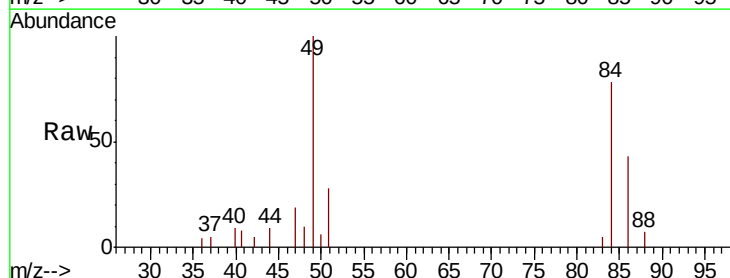
Instrument :
MSVOA_N
ClientSampled :
11935

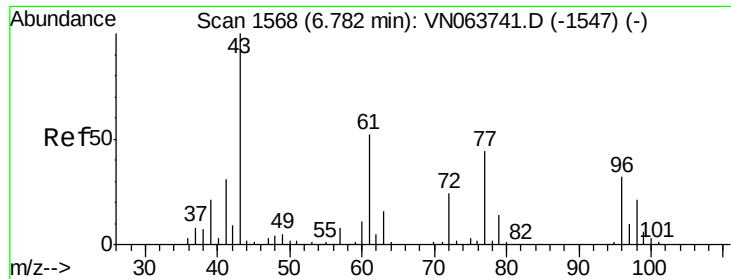
Tot Ion: 43 Resp: 4273
Ion Ratio Lower Upper
43 100
74 12.5 17.4 26.2#



#20
Methylene Chloride
Concen: 4.047 ug/l
RT: 4.50 min Scan# 859
Delta R.T. -0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Tgt Ion: 84 Resp: 9426
Ion Ratio Lower Upper
84 100
49 122.7 110.4 165.6
51 36.4 33.3 49.9
86 55.7 50.7 76.1

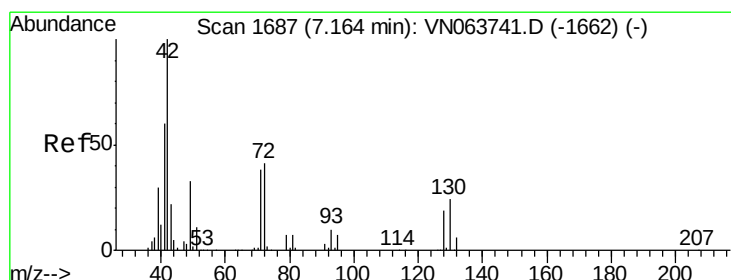
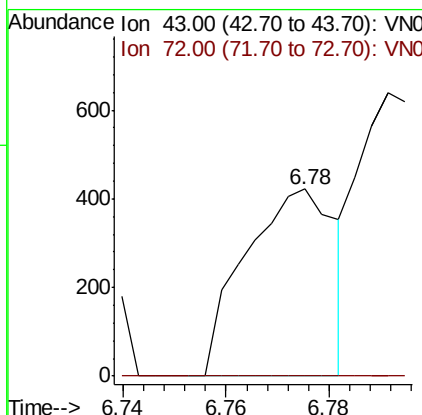
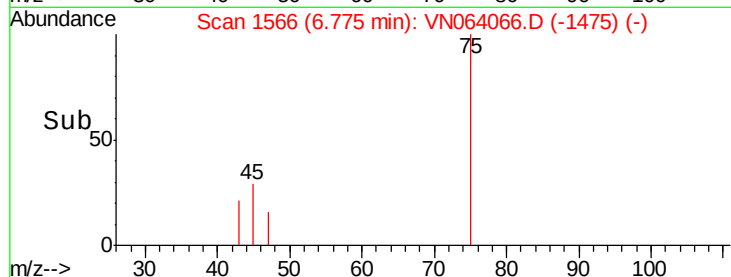
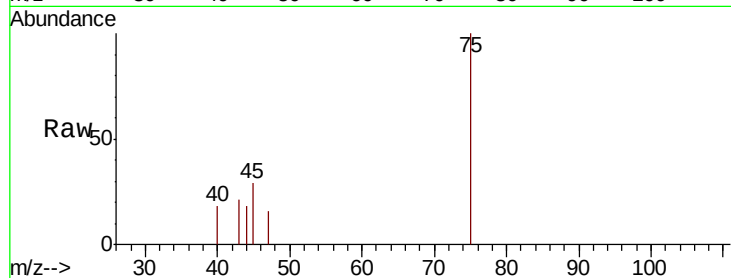




#25
2-Butanone
Concen: 0.346 ug/l
RT: 6.78 min Scan# 1566
Delta R.T. -0.01 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

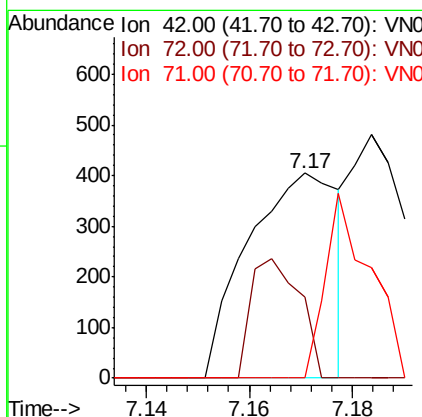
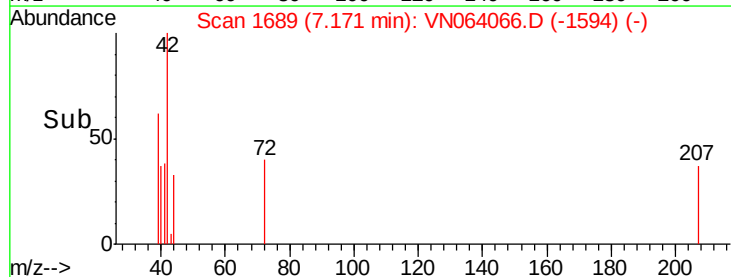
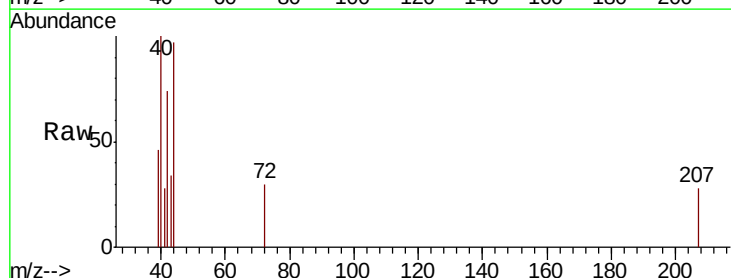
Instrument :
MSVOA_N
ClientSampled :
11935

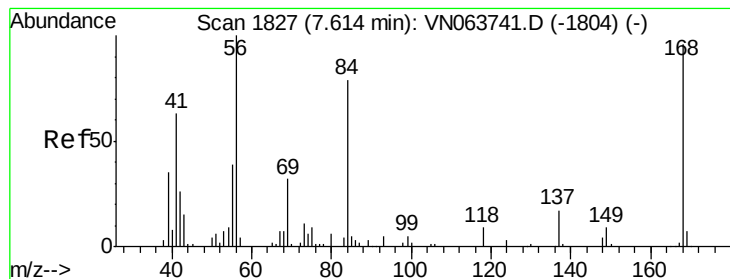
Tot Ion: 43 Resp: 510
Ion Ratio Lower Upper
43 100
72 0.0 19.3 28.9#



#29
Tetrahydrofuran
Concen: 0.499 ug/l
RT: 7.17 min Scan# 1689
Delta R.T. 0.01 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Tgt Ion: 42 Resp: 493
Ion Ratio Lower Upper
42 100
72 31.2 32.8 49.2#
71 44.2 30.6 45.8





#31

Cyclohexane

Concen: 1.519 ug/l

RT: 7.63 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampled :

11935

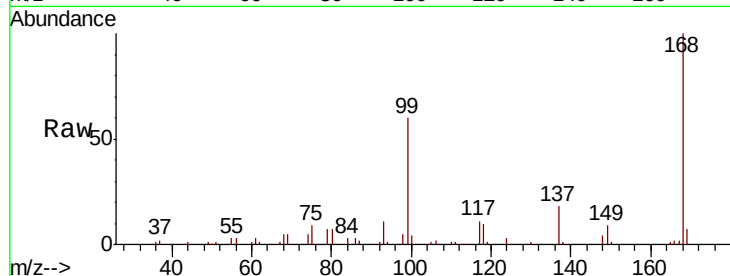
Tot Ion: 56 Resp: 5957

Ion Ratio Lower Upper

56 100

69 152.6 25.4 38.2#

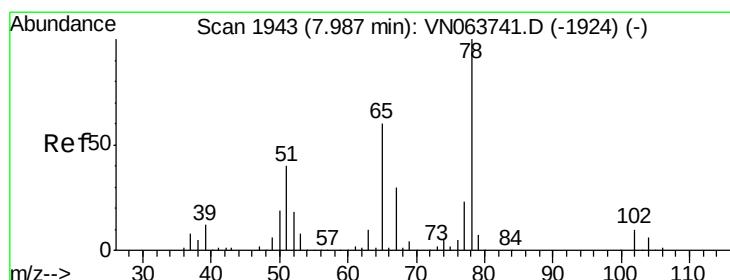
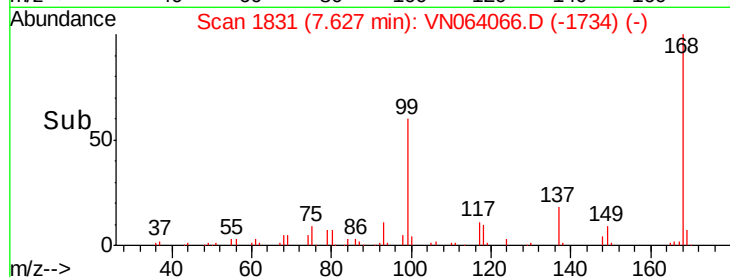
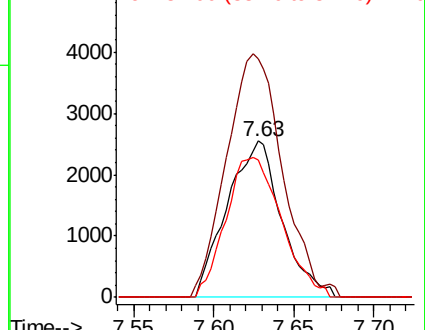
84 88.0 63.3 94.9



Abundance Ion 56.00 (55.70 to 56.70): VN063741.D (-1804) (-)

Ion 69.00 (68.70 to 69.70): VN063741.D (-1804) (-)

Ion 84.00 (83.70 to 84.70): VN063741.D (-1804) (-)



#33

1,2-Dichloroethane-d4

Concen: 53.723 ug/l

RT: 7.99 min Scan# 1943

Delta R.T. 0.00 min

Lab File: VN064066.D

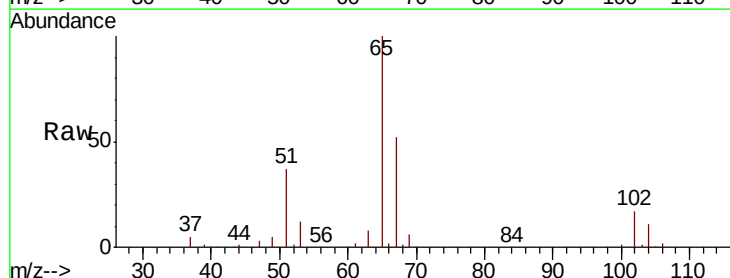
Acq: 10 Oct 2020 4:01

Tgt Ion: 65 Resp: 181497

Ion Ratio Lower Upper

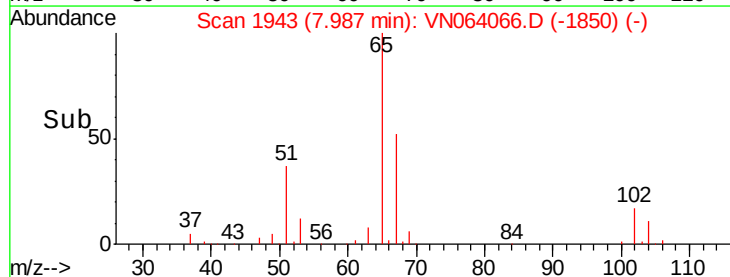
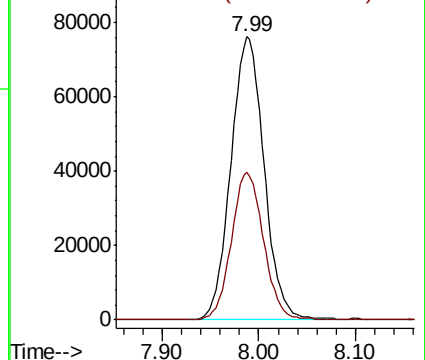
65 100

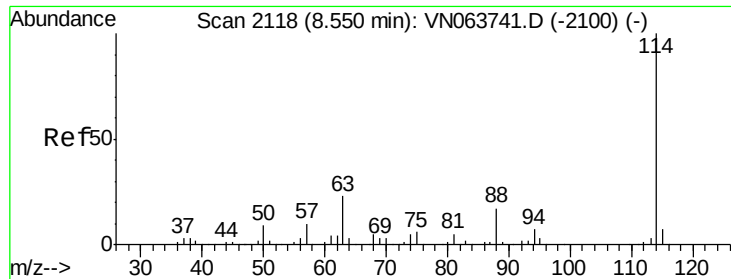
67 50.4 0.0 99.6



Abundance Ion 64.90 (64.60 to 65.60): VN063741.D (-1924) (-)

Ion 66.90 (66.60 to 67.60): VN063741.D (-1924) (-)

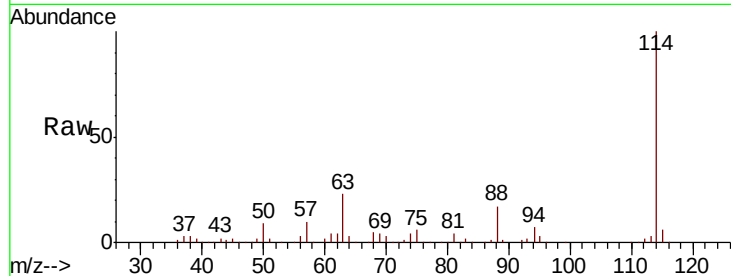




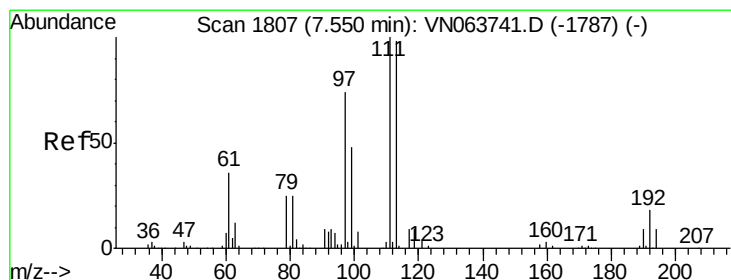
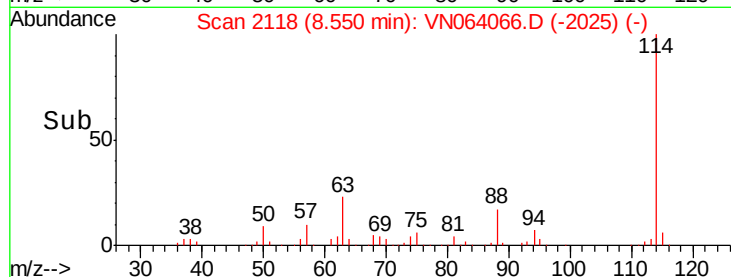
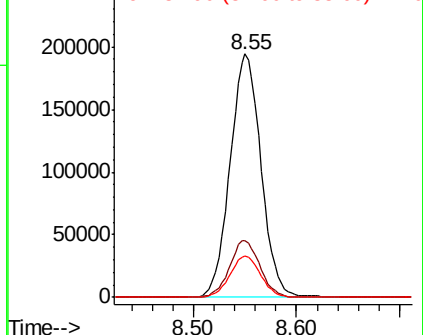
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2118
Delta R.T. 0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Instrument :
MSVOA_N
ClientSampled :
11935

Tot Ion:114 Resp: 406172
Ion Ratio Lower Upper
114 100
63 23.3 0.0 45.0
88 17.1 0.0 34.0

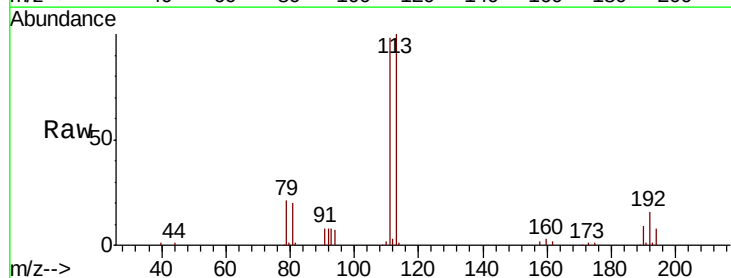


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

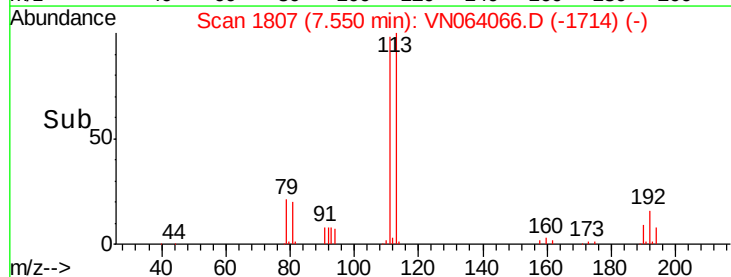
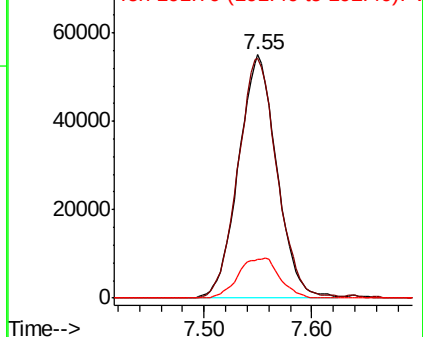


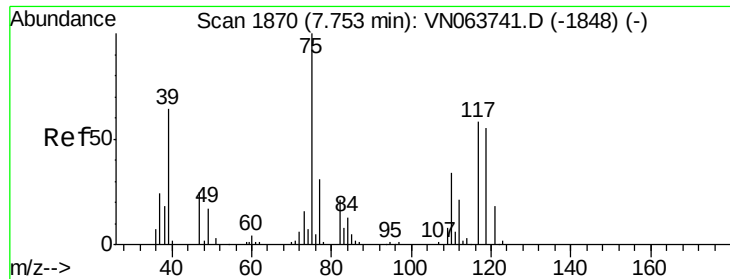
#35
Dibromofluoromethane
Concen: 48.106 ug/l
RT: 7.55 min Scan# 1807
Delta R.T. 0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Tgt Ion:113 Resp: 135579
Ion Ratio Lower Upper
113 100
111 100.1 81.8 122.8
192 17.8 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V

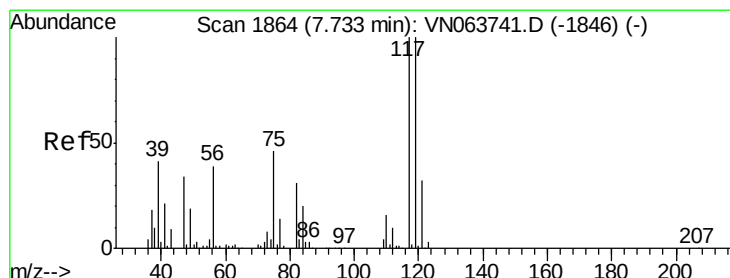
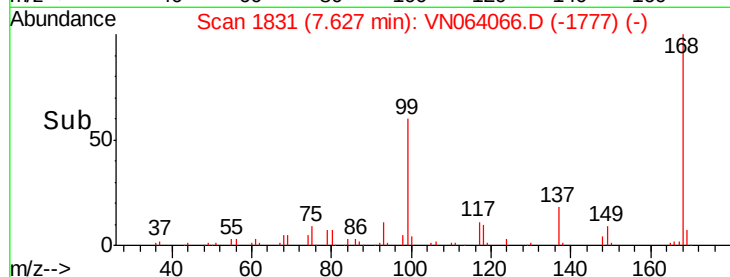
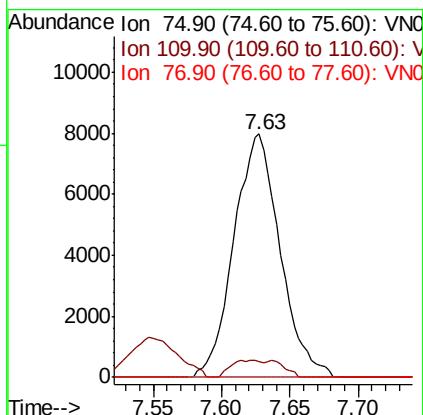
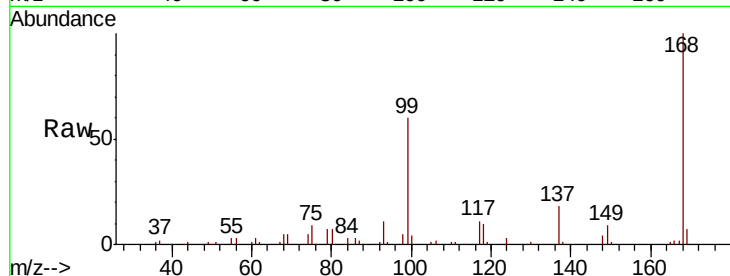




#36
 1,1-Dichloropropene
 Concen: 4.545 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.13 min
 Lab File: VN064066.D
 Acq: 10 Oct 2020 4:01

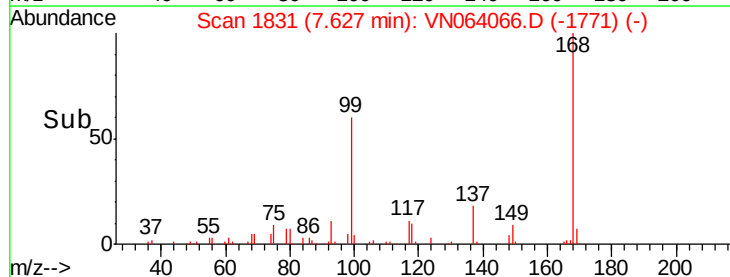
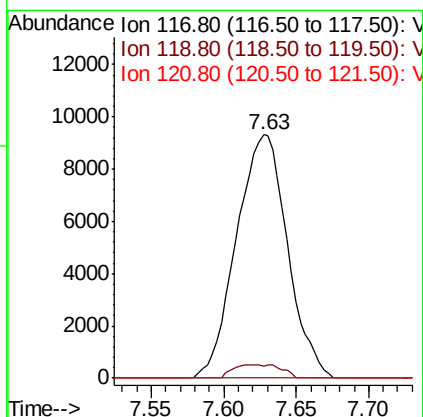
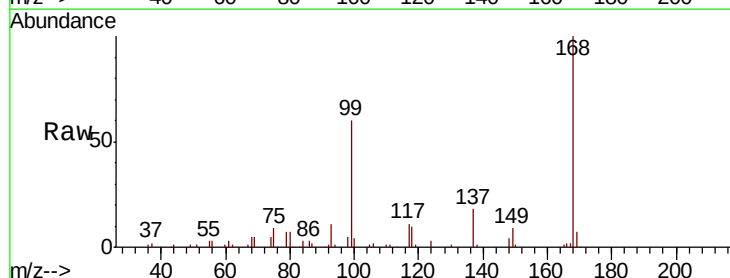
Instrument :
 MSVOA_N
 ClientSampled :
 11935

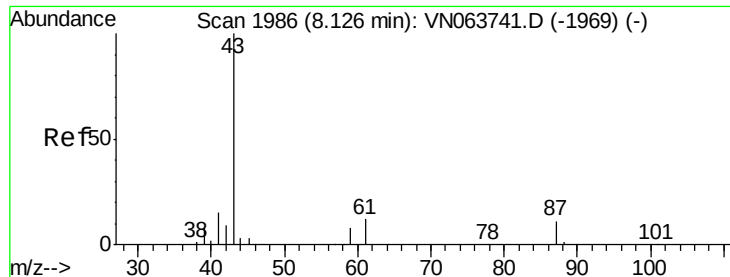
Tot Ion: 75 Resp: 18701
 Ion Ratio Lower Upper
 75 100
 110 4.9 16.9 50.6#
 77 0.0 24.5 36.7#



#38
 Carbon Tetrachloride
 Concen: 4.936 ug/l
 RT: 7.63 min Scan# 1831
 Delta R.T. -0.11 min
 Lab File: VN064066.D
 Acq: 10 Oct 2020 4:01

Tgt Ion: 117 Resp: 22776
 Ion Ratio Lower Upper
 117 100
 119 5.1 80.1 120.1#
 121 0.0 25.7 38.5#





#43

Isopropyl Acetate

Concen: 11.194 ug/l

RT: 8.13 min Scan# 1987

Delta R.T. 0.00 min

Lab File: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampleId :

11935

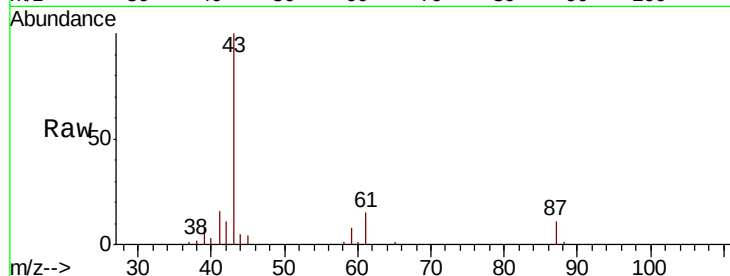
Tot Ion: 43 Resp: 75488

Ion Ratio Lower Upper

43 100

61 17.6 14.2 21.4

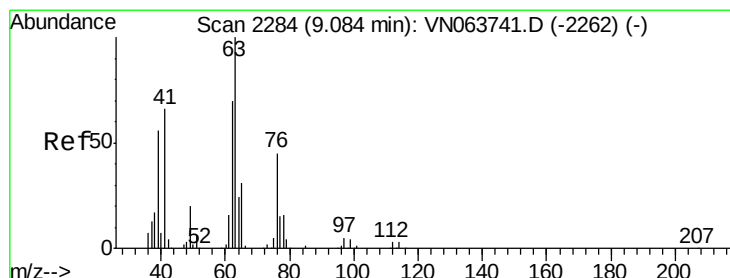
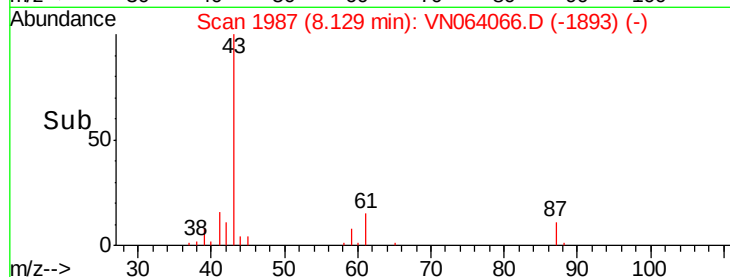
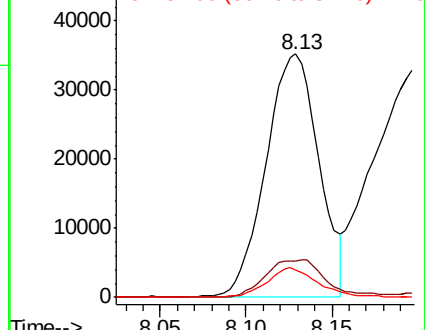
87 11.6 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-1969) (-)

Ion 61.00 (60.70 to 61.70): VN063741.D (-1969) (-)

Ion 87.00 (86.70 to 87.70): VN063741.D (-1969) (-)



#45

1,2-Dichloropropane

Concen: 0.375 ug/l

RT: 9.23 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN064066.D

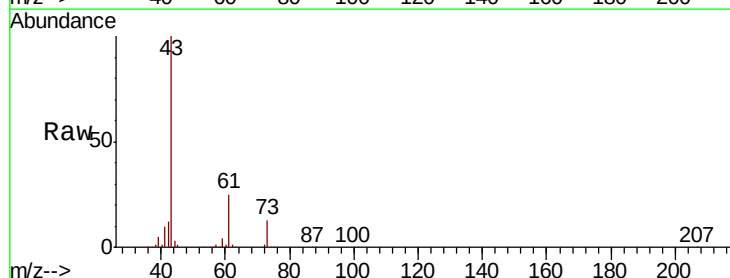
Acq: 10 Oct 2020 4:01

Tgt Ion: 63 Resp: 1190

Ion Ratio Lower Upper

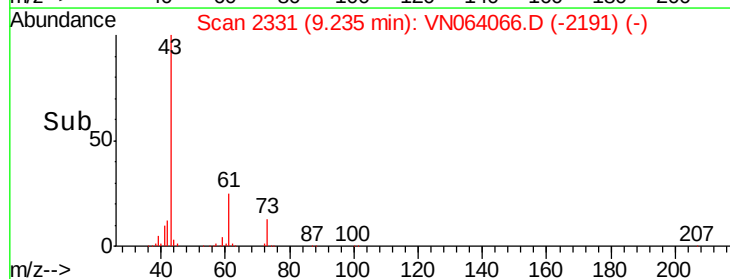
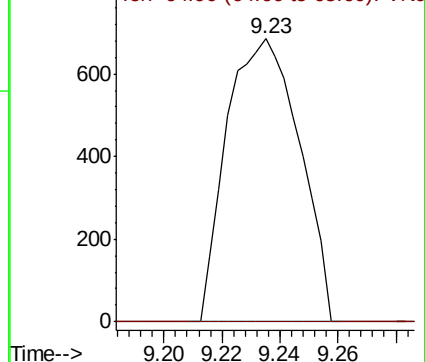
63 100

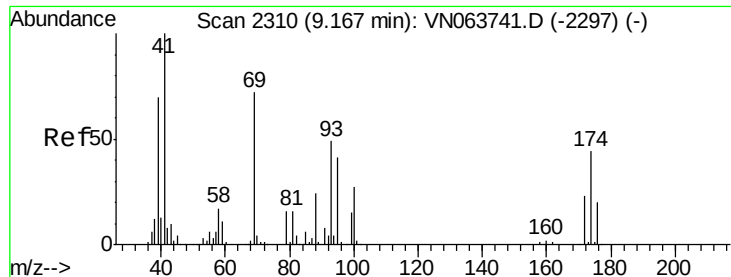
65 0.0 24.7 37.1#



Abundance Ion 62.90 (62.60 to 63.60): VN063741.D (-2262) (-)

Ion 64.90 (64.60 to 65.60): VN063741.D (-2262) (-)

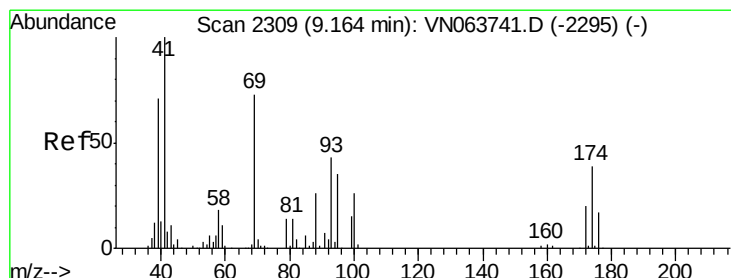
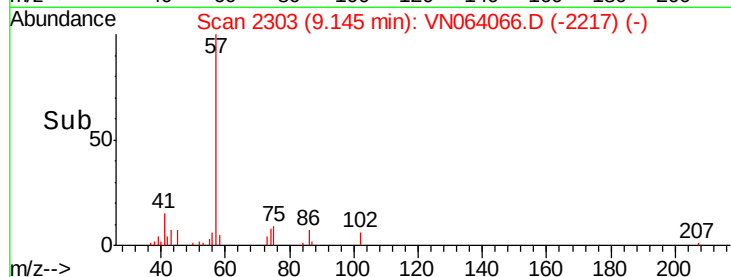
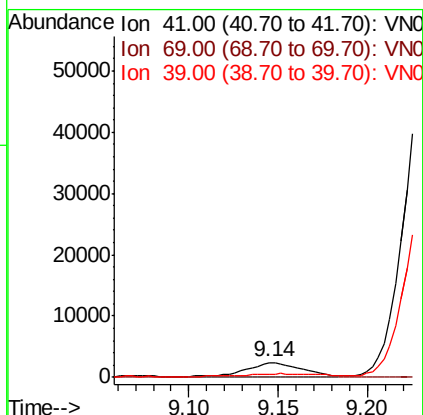
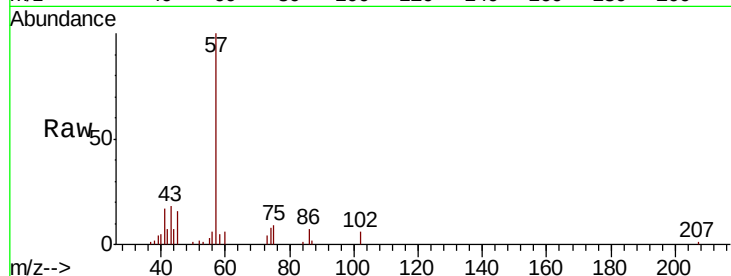




#48
Methvl methacrylate
Concen: 1.609 ug/l
RT: 9.14 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

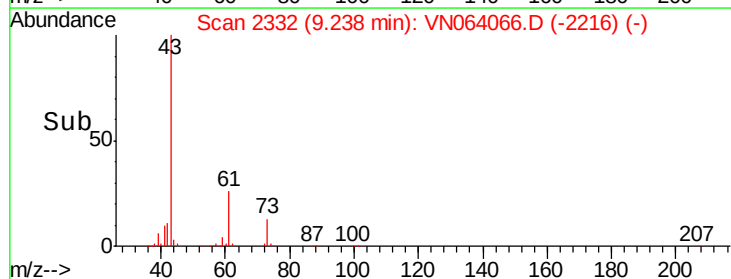
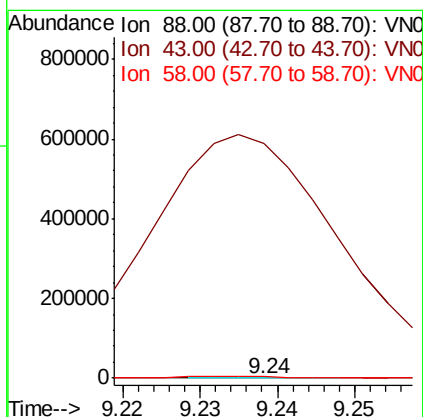
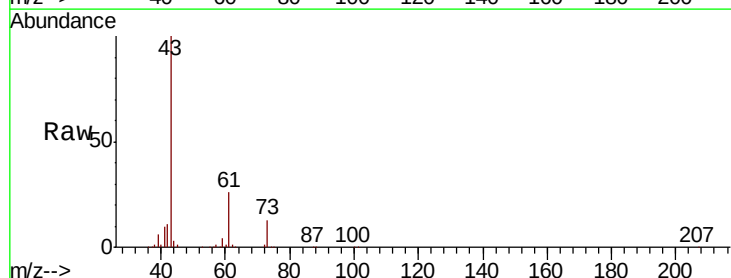
Instrument :
MSVOA_N
ClientSampled :
11935

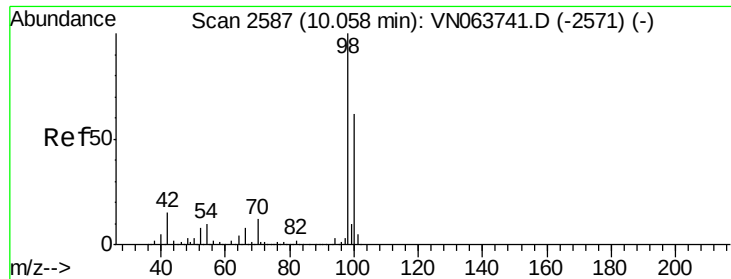
Tot Ion: 41 Resp: 5360
Ion Ratio Lower Upper
41 100
69 0.0 60.9 91.3#
39 35.4 57.5 86.3#



#49
1,4-Dioxane
Concen: 2.196 ug/l
RT: 9.24 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Tgt Ion: 88 Resp: 104
Ion Ratio Lower Upper
88 100
43 1066788.5 33.1 49.7#
58 5536.5 58.9 88.3#

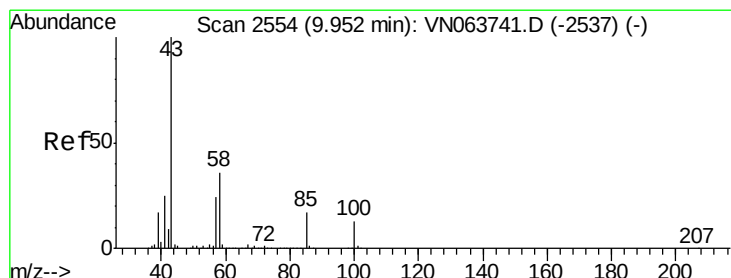
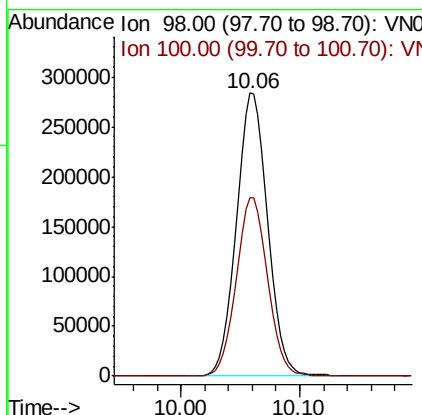
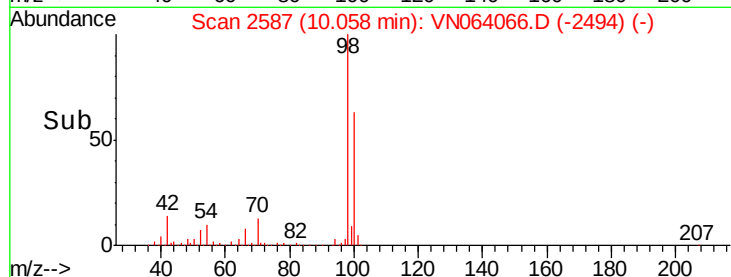
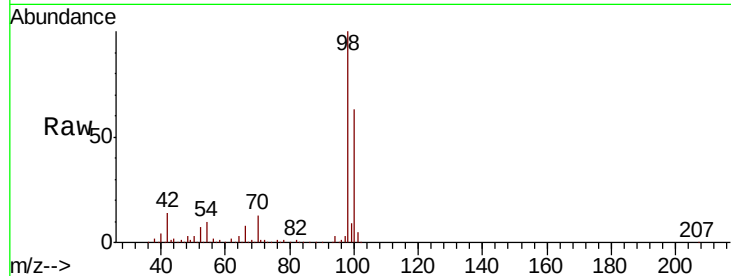




#50
Toluene-d8
Concen: 48.316 ug/l
RT: 10.06 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

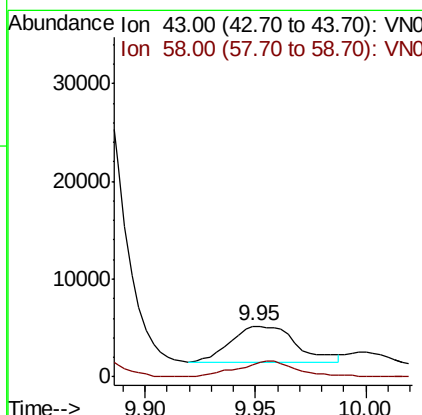
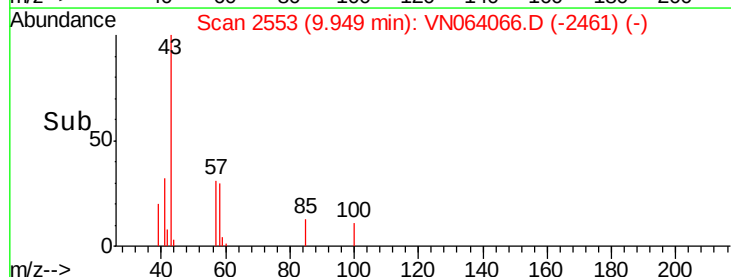
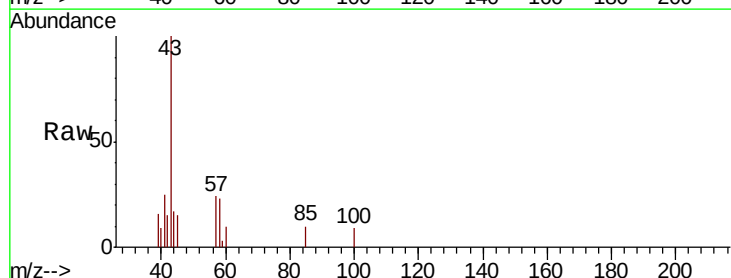
Instrument :
MSVOA_N
ClientSampled :
11935

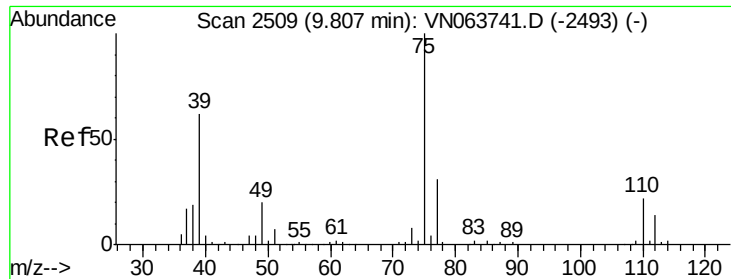
Tot Ion: 98 Resp: 516206
Ion Ratio Lower Upper
98 100
100 63.3 49.8 74.6



#51
4-Methyl-2-Pentanone
Concen: 1.986 ug/l
RT: 9.95 min Scan# 2553
Delta R.T. -0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Tgt Ion: 43 Resp: 7861
Ion Ratio Lower Upper
43 100
58 37.2 28.4 42.6



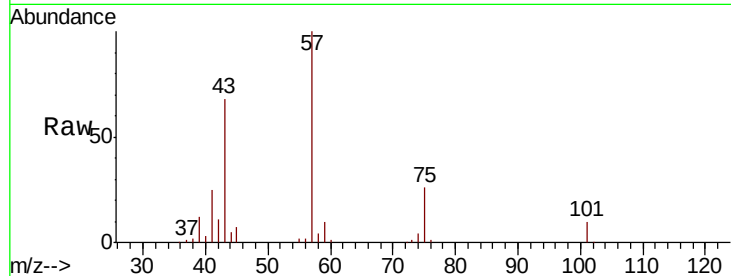


#54

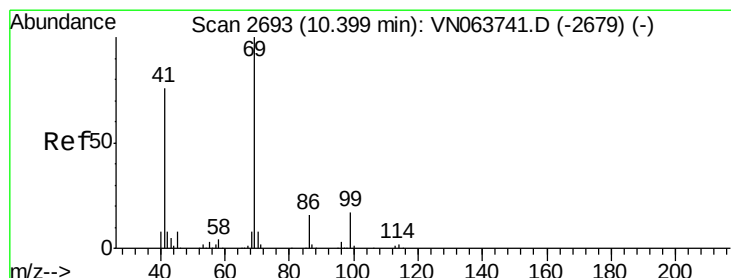
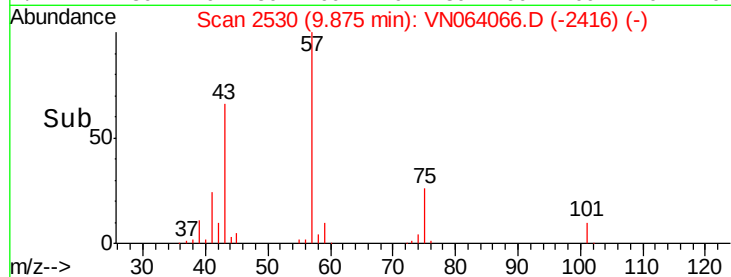
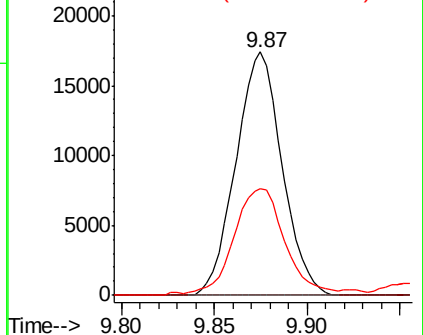
cis-1,3-Dichloropropene
 Concen: 5.938 ug/l
 RT: 9.87 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN064066.D
 Acq: 10 Oct 2020 4:01

Instrument :
 MSVOA_N
 ClientSampled :
 11935

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	24.6	36.8#
39	42.8	49.7	74.5#



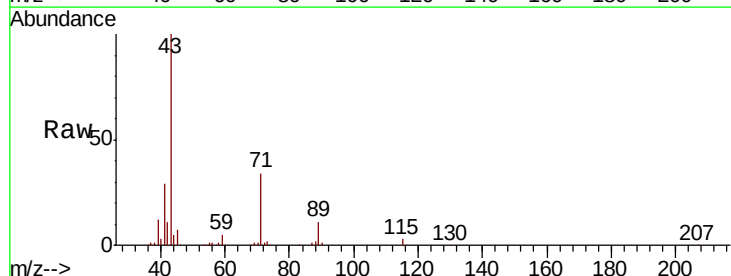
Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0
 Ion 39.00 (38.70 to 39.70): VN0



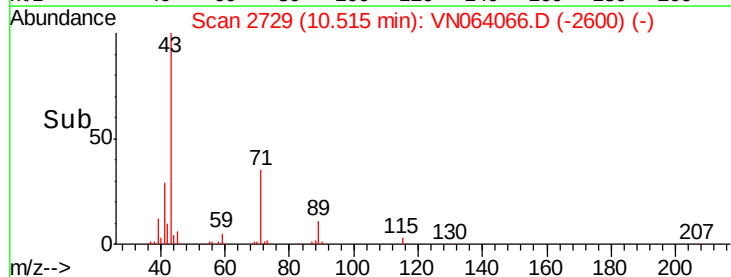
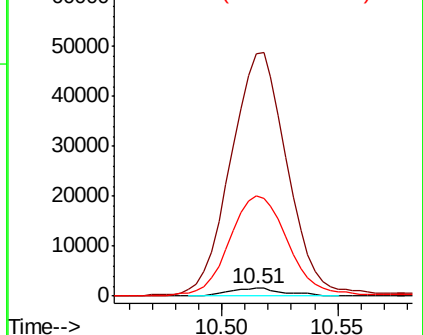
#56

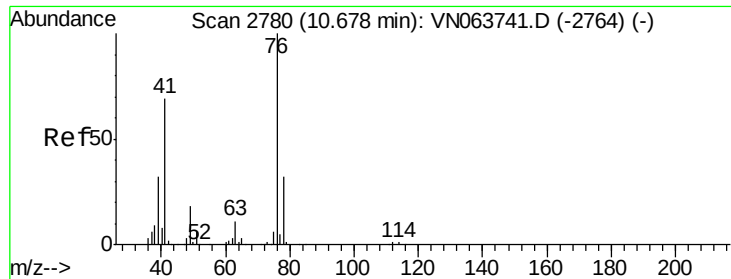
Ethyl methacrylate
 Concen: 0.650 ug/l
 RT: 10.51 min Scan# 2729
 Delta R.T. 0.12 min
 Lab File: VN064066.D
 Acq: 10 Oct 2020 4:01

Tgt Ion	Ratio	Lower	Upper
69	100		
41	3107.6	61.1	91.7#
39	1312.6	42.2	63.4#



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

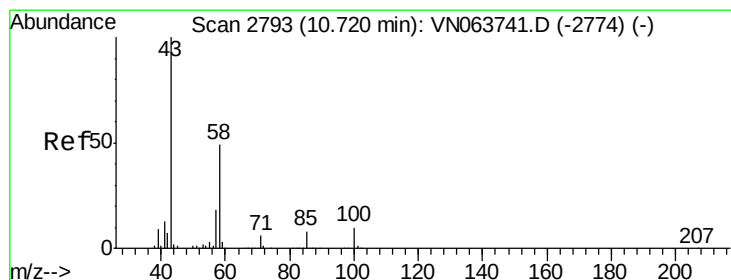
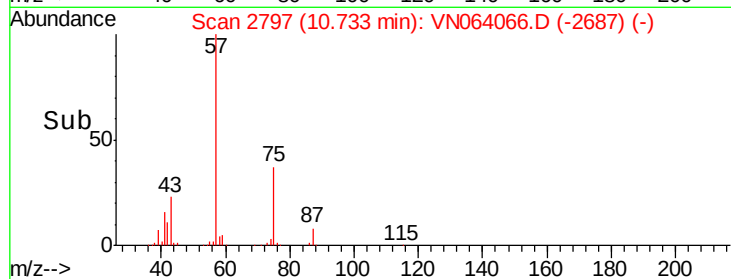
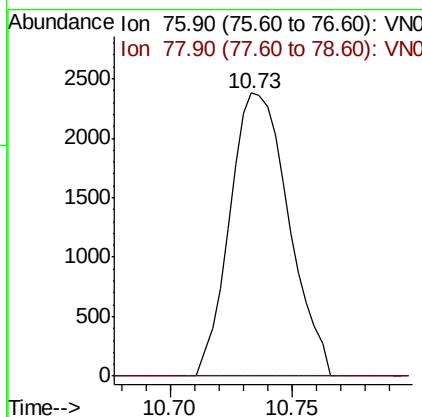
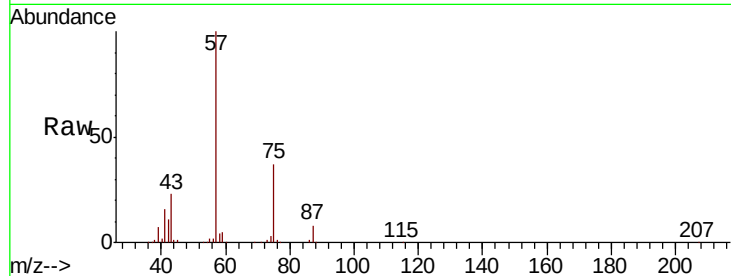




#57
 1,3-Dichloropropane
 Concen: 0.806 ug/l
 RT: 10.73 min Scan# 2797
 Delta R.T. 0.05 min
 Lab File: VN064066.D
 Acq: 10 Oct 2020 4:01

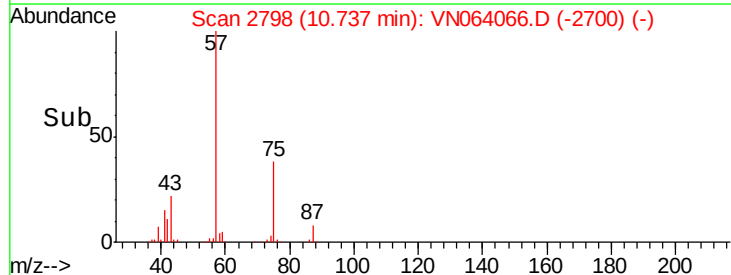
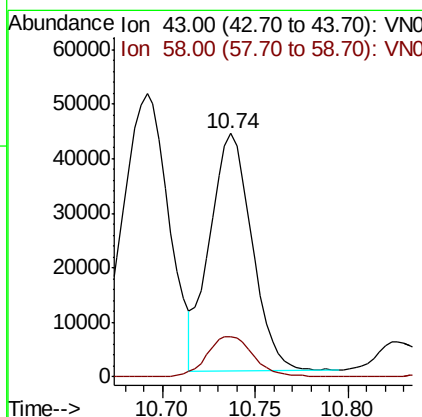
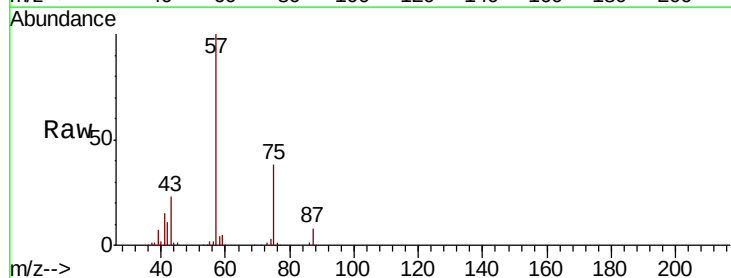
Instrument :
 MSVOA_N
 ClientSampled :
 11935

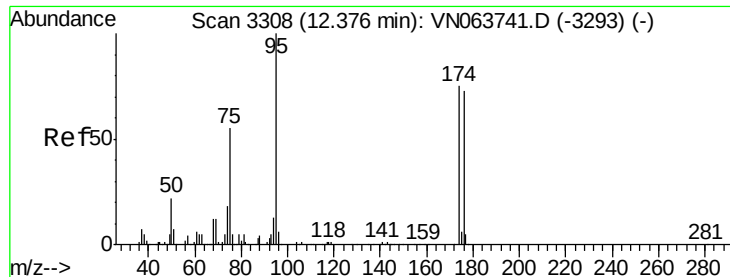
Tot Ion: 76 Resp: 3977
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.2 37.8#



#59
 2-Hexanone
 Concen: 23.309 ug/l
 RT: 10.74 min Scan# 2798
 Delta R.T. 0.02 min
 Lab File: VN064066.D
 Acq: 10 Oct 2020 4:01

Tgt Ion: 43 Resp: 68522
 Ion Ratio Lower Upper
 43 100
 58 18.9 24.6 73.8#

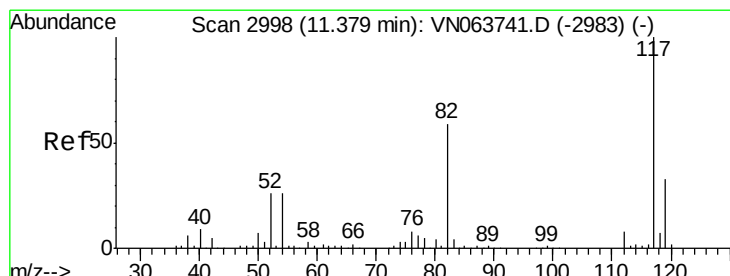
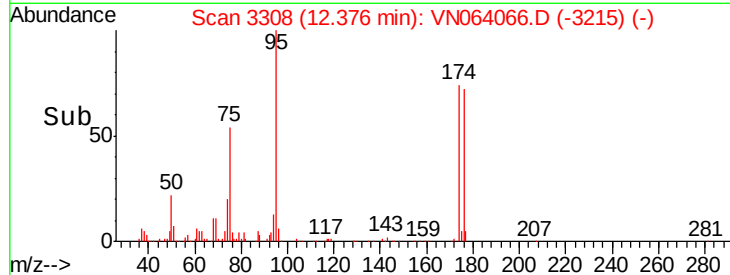
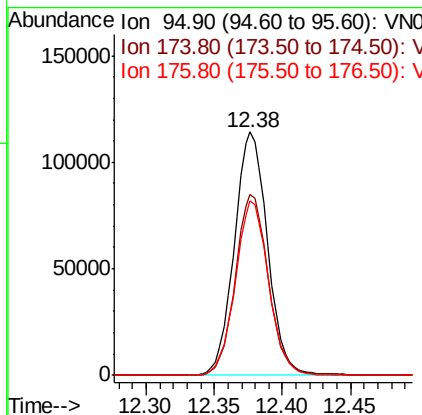
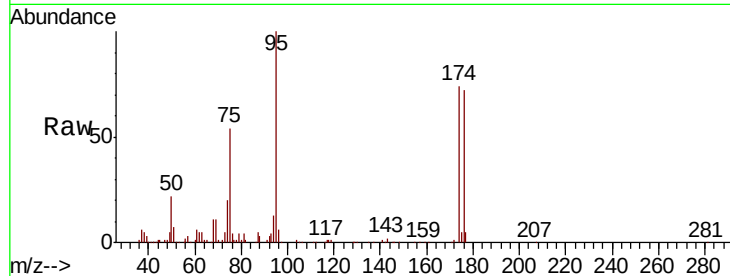




#62
4-Bromofluorobenzene
Concen: 47.935 ug/l
RT: 12.38 min Scan# 3308
Delta R.T. 0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

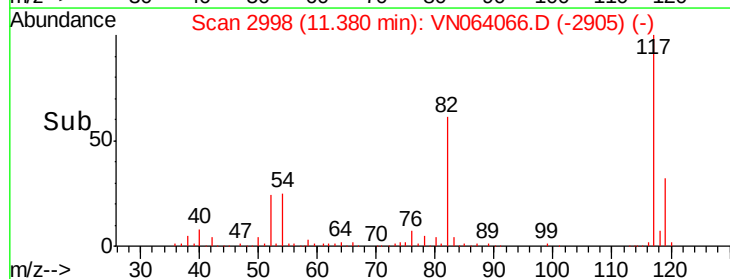
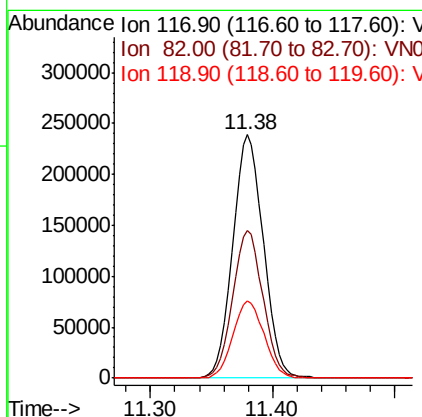
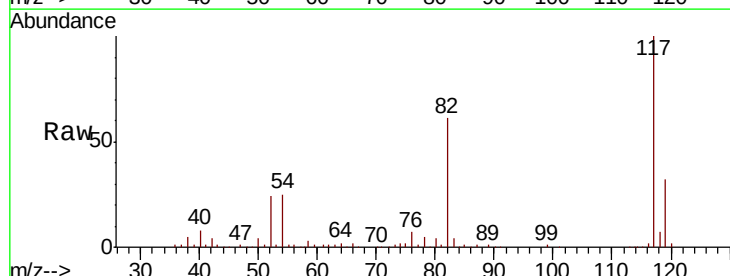
Instrument :
MSVOA_N
ClientSampleId :
11935

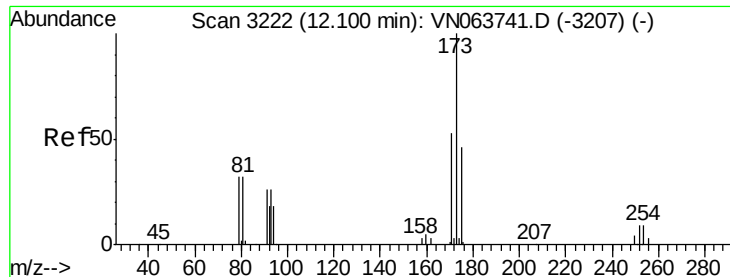
Tot Ion	95	Resp	192518
Ion Ratio	100		
Lower			
Upper			
174	74.1	0.0	150.6
176	71.7	0.0	145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2998
Delta R.T. 0.00 min
Lab File: VN064066.D
Acq: 10 Oct 2020 4:01

Tgt Ion	117	Resp	416429
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower			
Upper			
82	60.7	47.4	71.2
119	31.6	26.4	39.6





#71

Bromoform

Concen: 0.266 ug/l

RT: 12.38 min Scan# 3309

Delta R.T. 0.28 min

Lab File: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampleId :
11935

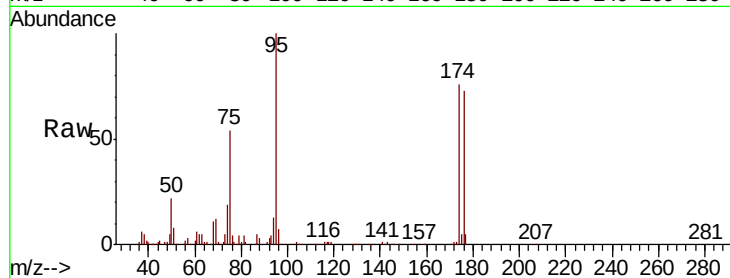
Tot Ion:173 Resp: 666

Ion Ratio Lower Upper

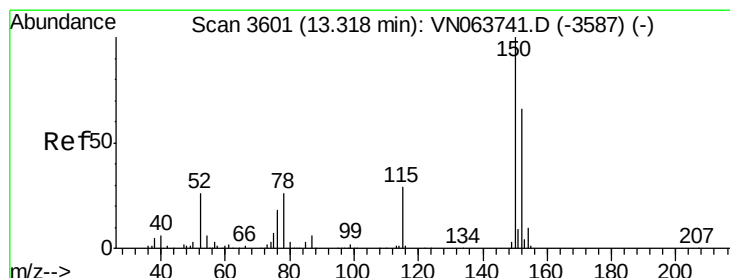
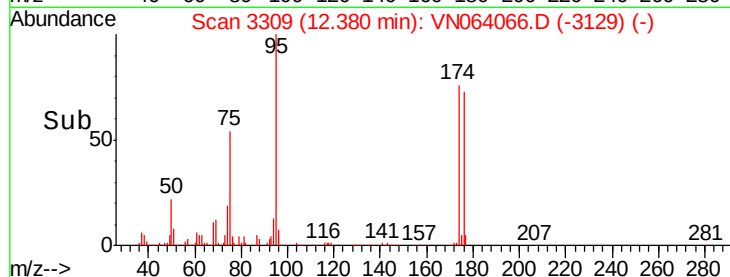
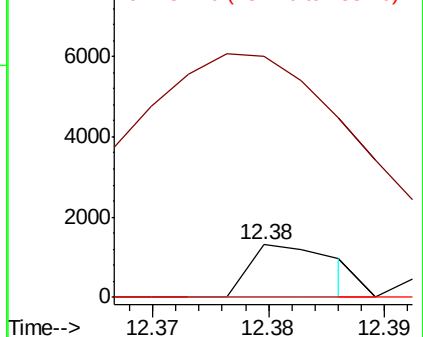
173 100

175 1244.4 23.5 70.5#

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: VN064066.D

Acq: 10 Oct 2020 4:01

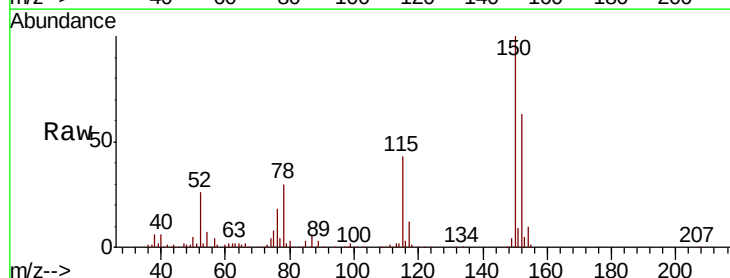
Tgt Ion:152 Resp: 153580

Ion Ratio Lower Upper

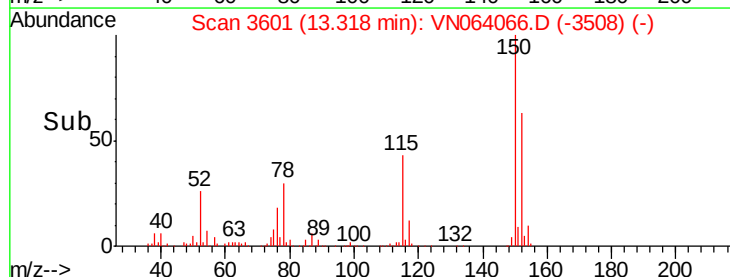
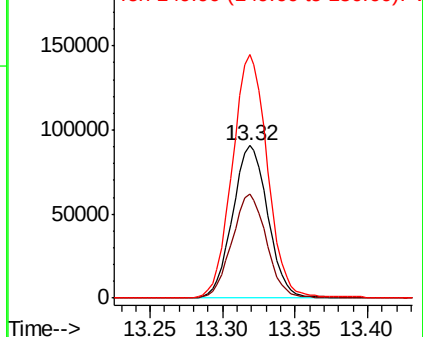
152 100

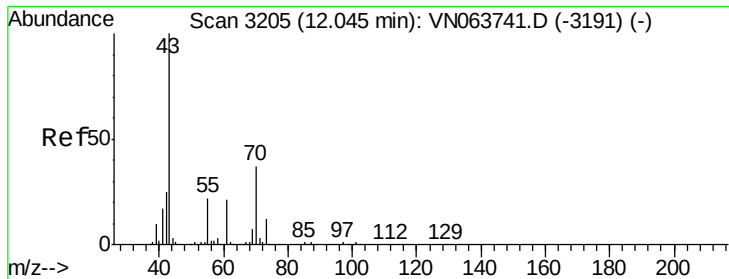
115 67.1 31.3 93.8

150 159.0 0.0 341.8



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: 2.713 ug/l

RT: 12.01 min Scan# 3193

Delta R.T. -0.04 min

Lab File: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampled :

11935

Tot Ion: 43 Resp: 2706

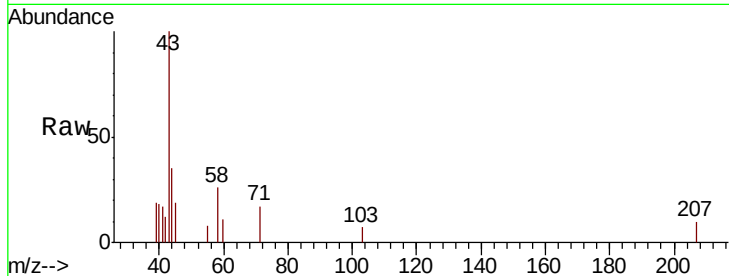
Ion Ratio Lower Upper

43 100

70 0.0 29.8 44.8#

55 5.3 17.9 26.9#

61 0.0 17.0 25.4#

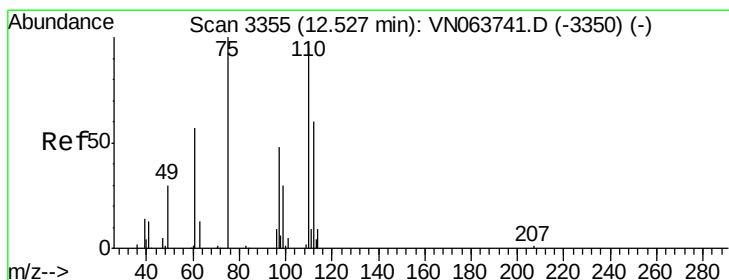
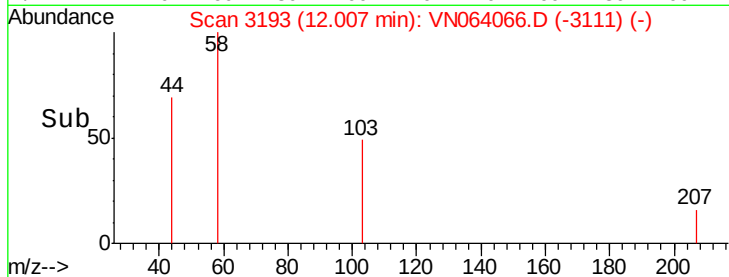
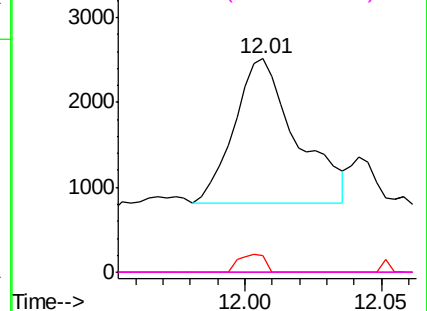


Abundance Ion 43.00 (42.70 to 43.70): VN063741.D (-3191) (-)

Ion 70.00 (69.70 to 70.70): VN063741.D (-3191) (-)

Ion 55.00 (54.70 to 55.70): VN063741.D (-3191) (-)

Ion 61.00 (60.70 to 61.70): VN063741.D (-3191) (-)



#76

1,2,3-Trichloropropane

Concen: 30.853 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. -0.15 min

Lab File: VN064066.D

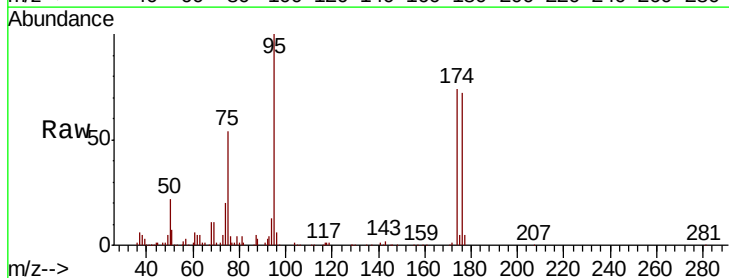
Acq: 10 Oct 2020 4:01

Tgt Ion: 75 Resp: 104454

Ion Ratio Lower Upper

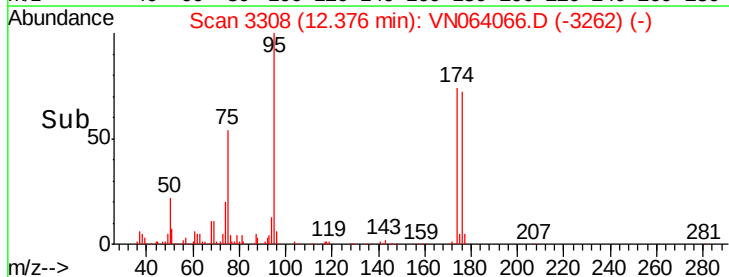
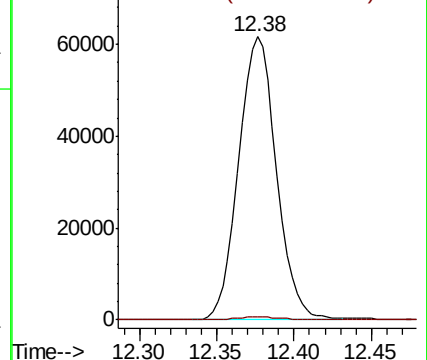
75 100

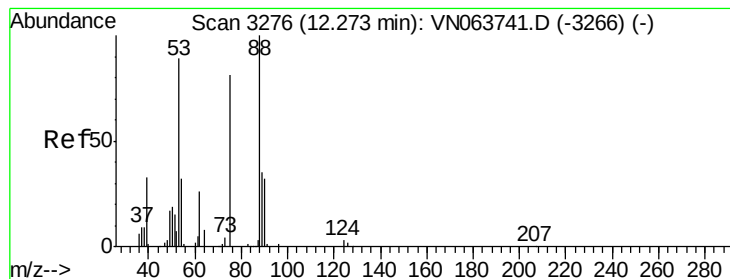
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN063741.D (-3350) (-)

Ion 77.00 (76.70 to 77.70): VN063741.D (-3350) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 88.862 ug/l

RT: 12.38 min Scan# 3308

Delta R.T. 0.10 min

Lab File: VN064066.D

Acq: 10 Oct 2020 4:01

Instrument :

MSVOA_N

ClientSampleId :

11935

Tot Ion: 75 Resp: 104454

Ion Ratio Lower Upper

75 100

53 0.1 88.2 132.2#

89 0.0 36.0 54.0#

