

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040874.D
 Acq On : 15 Nov 2023 18:52
 Operator : SY/MD
 Sample : 05277-06 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-8

Quant Time: Nov 16 05:55:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

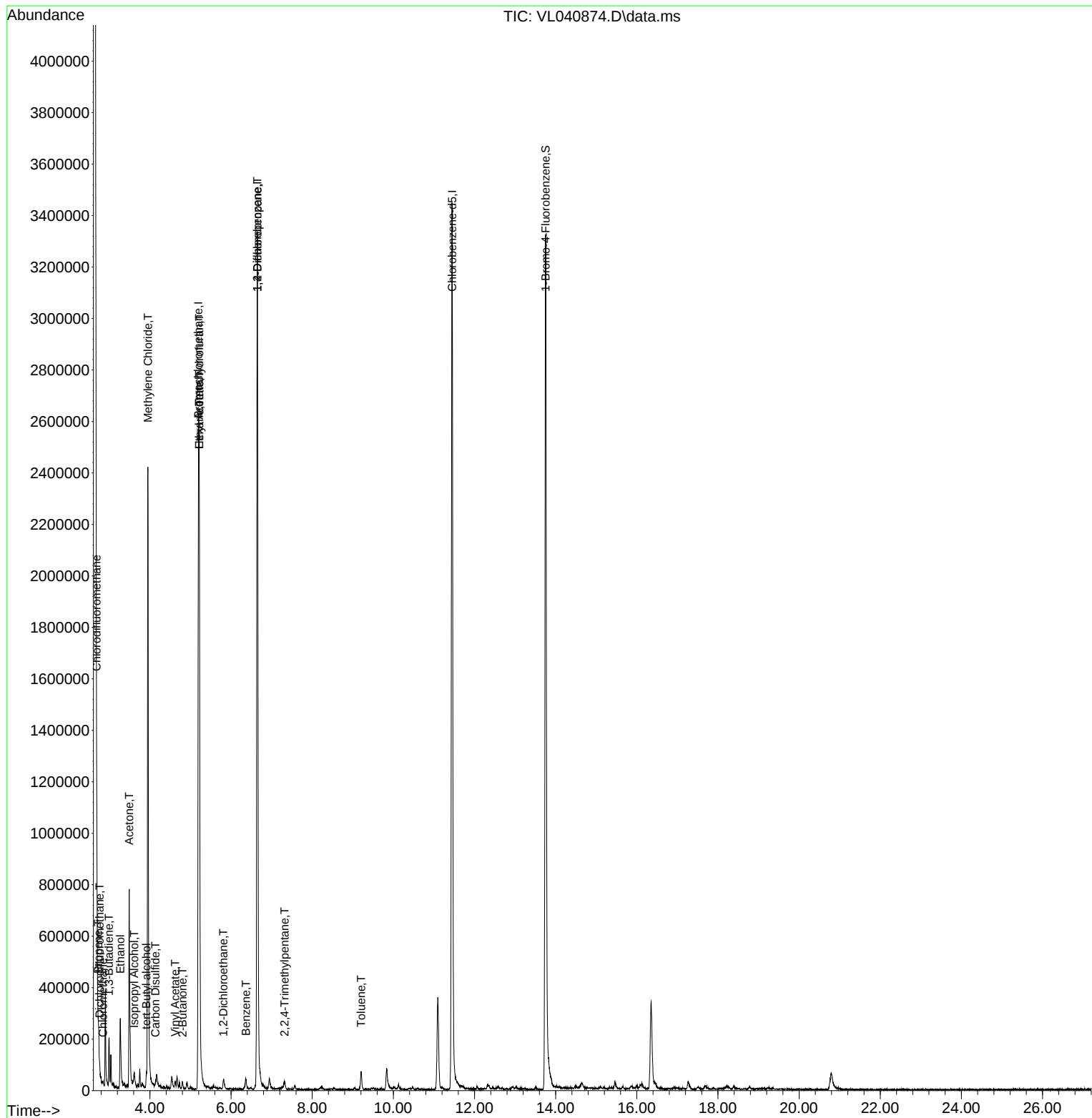
Internal Standards						
1) Bromochloromethane	5.195	49	1028212	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	2534361	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.446	117	2273677	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1746036	9.808	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	22542	0.108	ppbv	96
3) Chlorodifluoromethane	2.684	51	43110	0.263	ppbv #	69
4) Chloromethane	2.841	50	4201	0.071	ppbv #	84
9) Propene	2.726	41	17980	0.325	ppbv #	54
13) Ethanol	3.269	45	274009	25.506	ppbv #	100
15) Acetone	3.491	43	754322	6.888	ppbv	100
16) 1,3-Butadiene	2.989	39	49739	0.898	ppbv #	21
17) tert-Butyl alcohol	3.915	59	27106	0.289	ppbv #	78
19) Isopropyl Alcohol	3.610	45	30929	0.469	ppbv #	1
20) Methylene Chloride	3.951	84	767814	16.990	ppbv	98
23) Vinyl Acetate	4.623	43	12070	0.085	ppbv #	44
25) Ethyl Acetate	5.218	43	530251	2.339	ppbv #	77
26) Hexane	5.218	57	752381	7.497	ppbv #	41
27) Carbon Disulfide	4.137	76	9934	0.078	ppbv #	61
34) 2-Butanone	4.803	43	28560	0.221	ppbv	95
36) Benzene	6.369	78	7988	0.039	ppbv #	53
37) 1,2-Dichloroethane	5.806	62	6472	0.053	ppbv	100
39) 1,2-Dichloropropane	6.645	63	642702	7.881	ppbv #	25
41) Tetrahydrofuran	5.214	42	280859	3.533	ppbv #	50
44) 2,2,4-Trimethylpentane	7.317	57	13387	0.039	ppbv #	15
53) Toluene	9.205	91	47924	0.212	ppbv	100

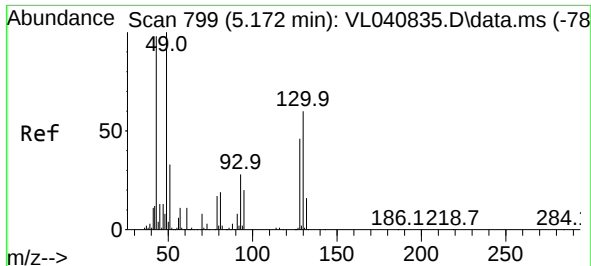
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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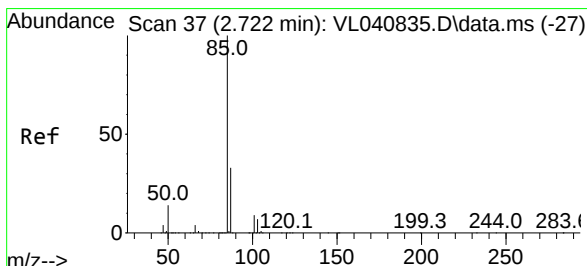
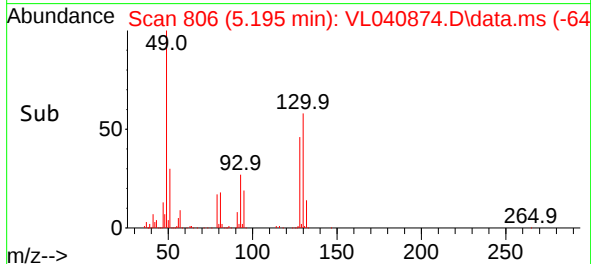
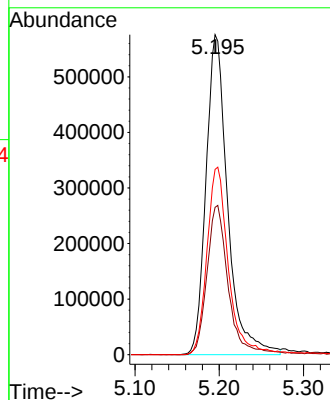
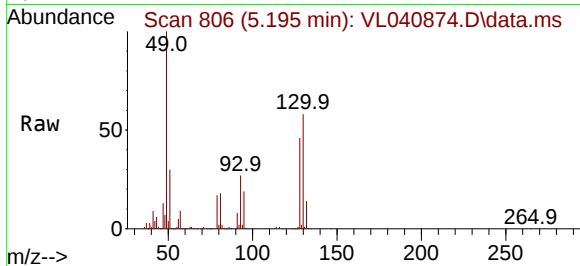




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.023 min
 Lab File: VL040874.D
 Acq: 15 Nov 2023 18:52

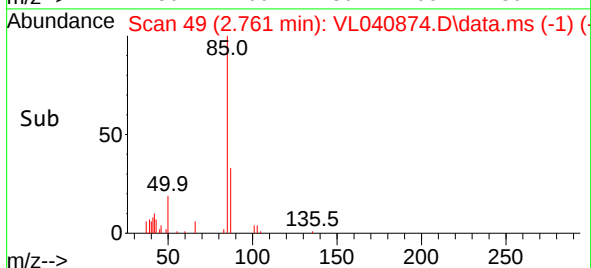
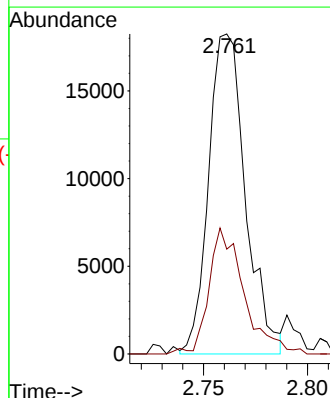
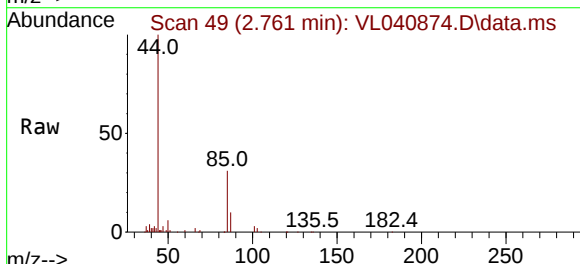
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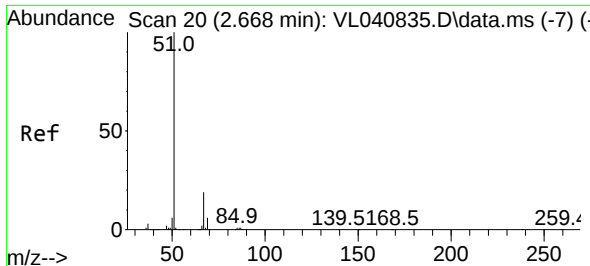
Tgt Ion: 49 Resp: 1028212
 Ion Ratio Lower Upper
 49 100
 128 46.8 23.8 71.2
 130 59.7 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.108 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.039 min
 Lab File: VL040874.D
 Acq: 15 Nov 2023 18:52

Tgt Ion: 85 Resp: 22542
 Ion Ratio Lower Upper
 85 100
 87 31.3 26.7 40.1

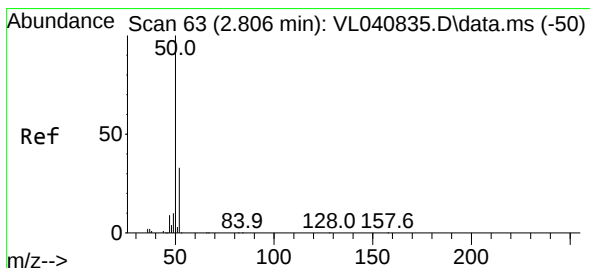
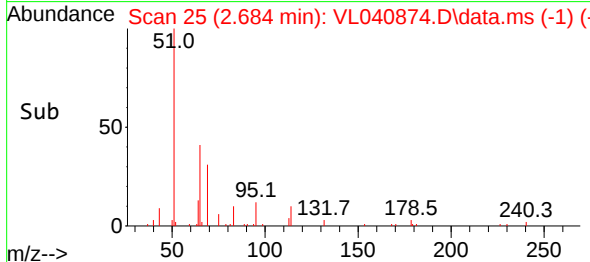
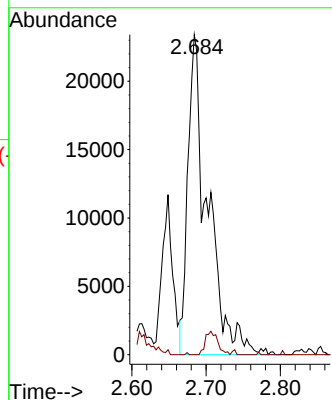
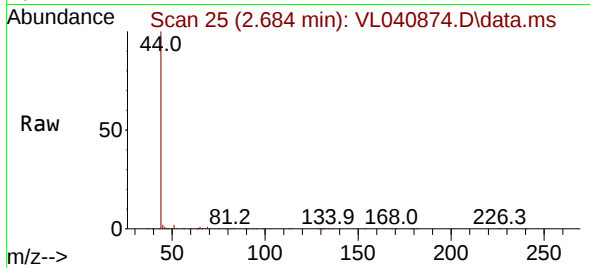




#3
Chlorodifluoromethane
Concen: 0.263 ppbv
RT: 2.684 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

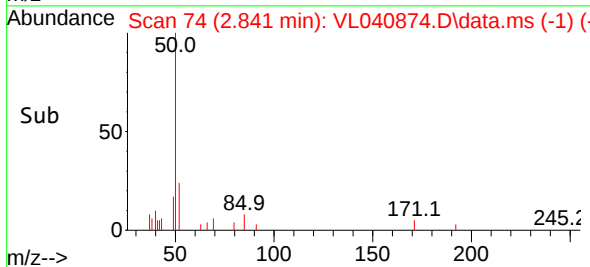
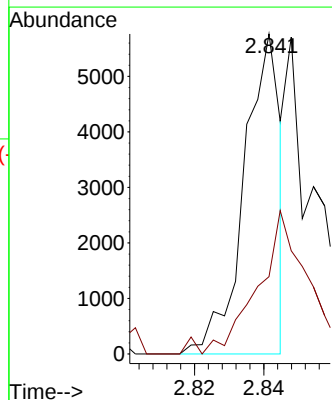
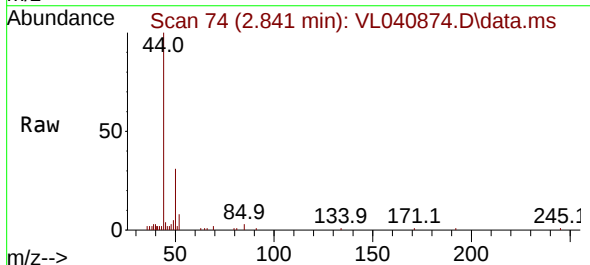
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-8

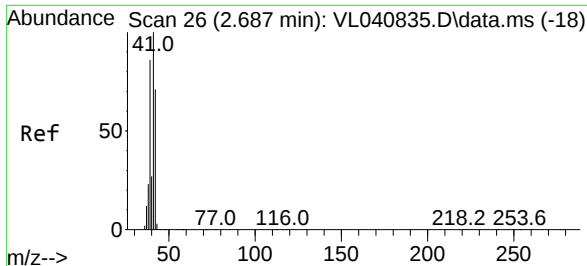
Tgt Ion: 51 Resp: 43110
Ion Ratio Lower Upper
51 100
67 4.9 15.0 22.4#



#4
Chloromethane
Concen: 0.071 ppbv
RT: 2.841 min Scan# 74
Delta R.T. 0.036 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion: 50 Resp: 4201
Ion Ratio Lower Upper
50 100
52 24.2 26.5 39.7#





#9

Propene

Concen: 0.325 ppbv

RT: 2.726 min Scan# 30

Delta R.T. 0.039 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

Instrument :

MSVOA_L

ClientSampleId :

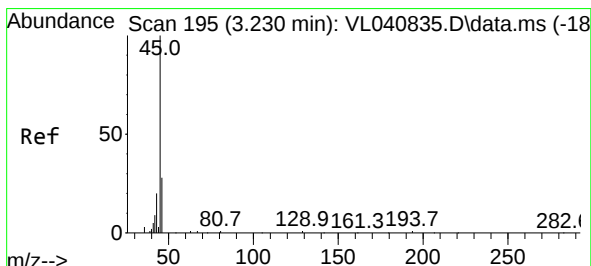
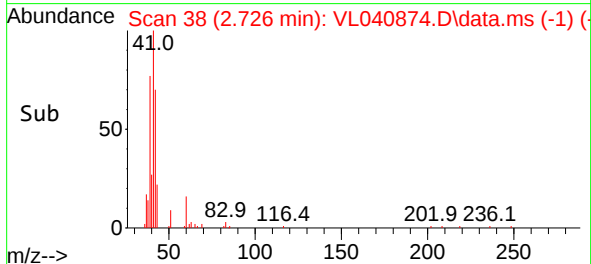
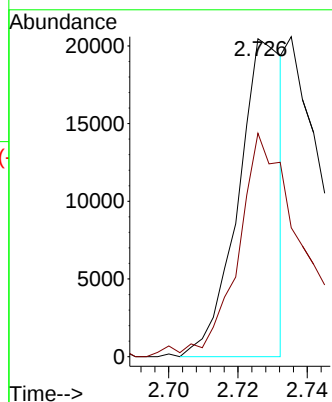
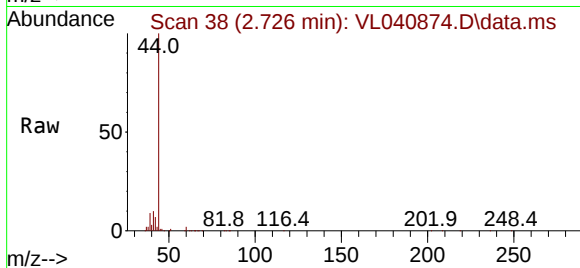
NT-SS-8

Tgt Ion: 41 Resp: 17980

Ion Ratio Lower Upper

41 100

42 108.9 56.5 84.7#



#13

Ethanol

Concen: 25.506 ppbv

RT: 3.269 min Scan# 207

Delta R.T. 0.039 min

Lab File: VL040874.D

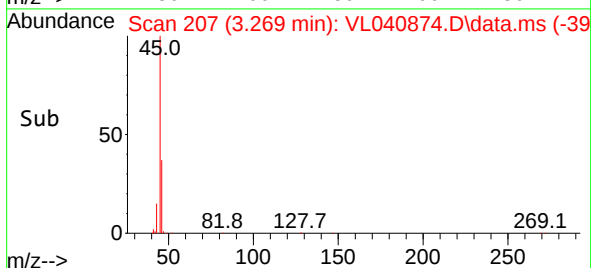
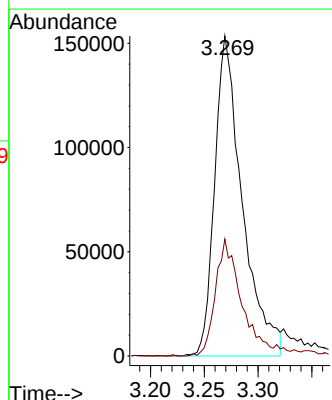
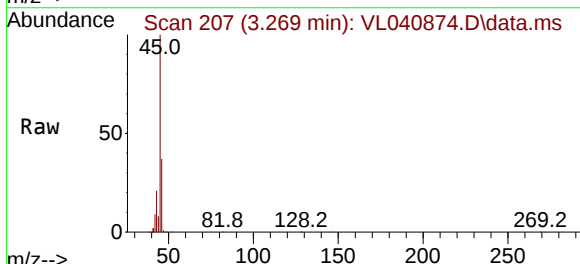
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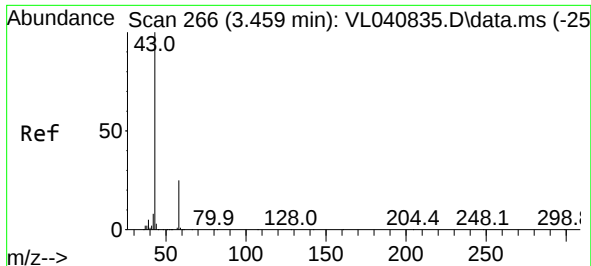
Tgt Ion: 45 Resp: 274009

Ion Ratio Lower Upper

45 100

46 37.8 0.0 0.0#

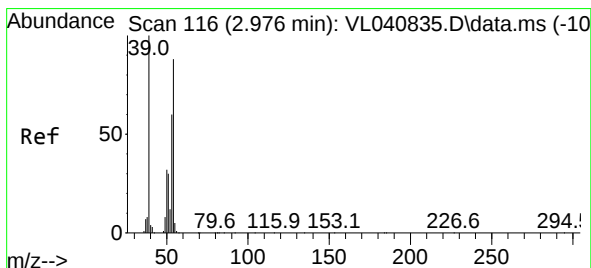
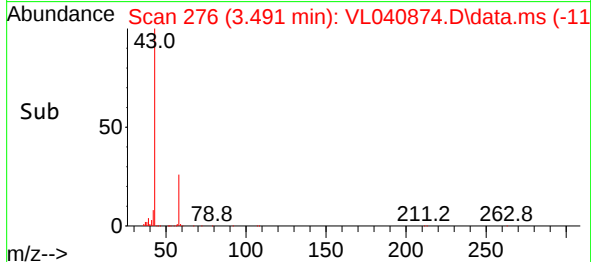
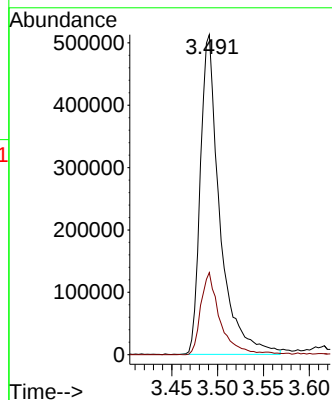
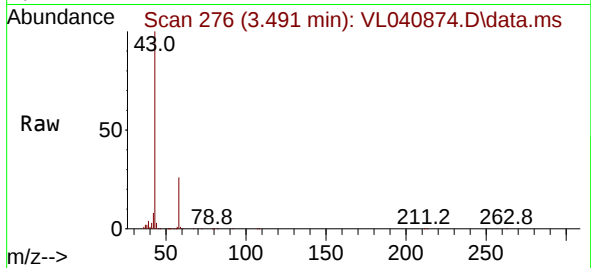




#15
Acetone
Concen: 6.888 ppbv
RT: 3.491 min Scan# 21
Delta R.T. 0.032 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

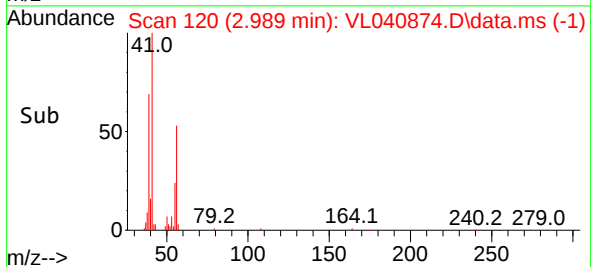
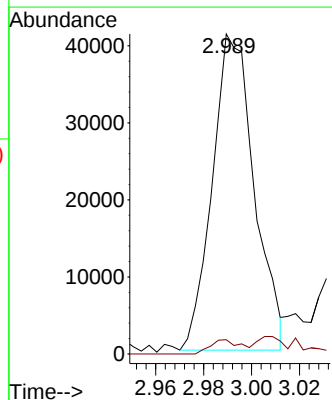
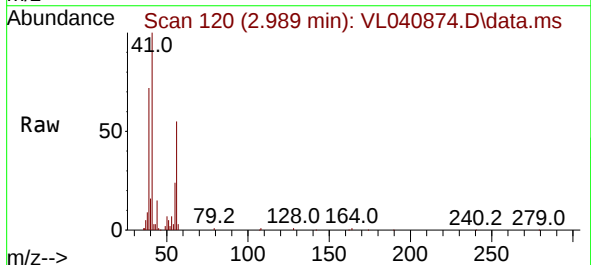
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-8

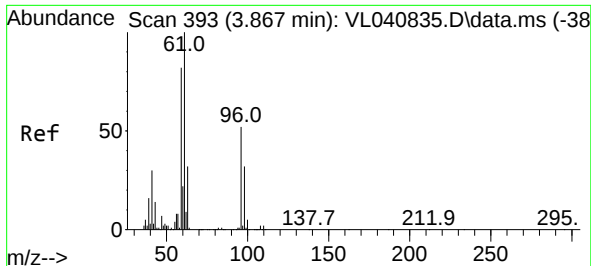
Tgt Ion: 43 Resp: 754322
Ion Ratio Lower Upper
43 100
58 25.9 20.9 31.3



#16
1,3-Butadiene
Concen: 0.898 ppbv
RT: 2.989 min Scan# 120
Delta R.T. 0.013 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion: 39 Resp: 49739
Ion Ratio Lower Upper
39 100
54 8.8 61.8 92.6#

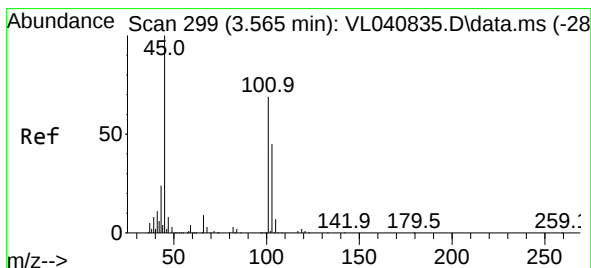
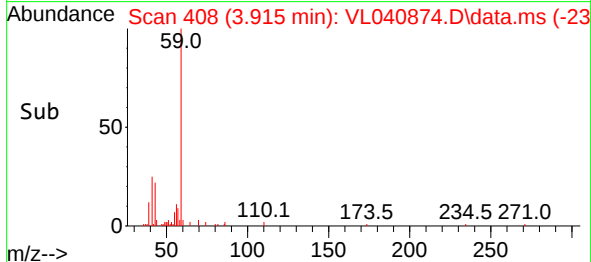
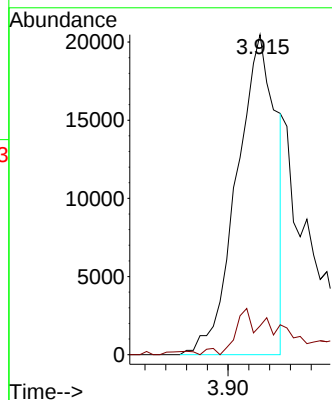
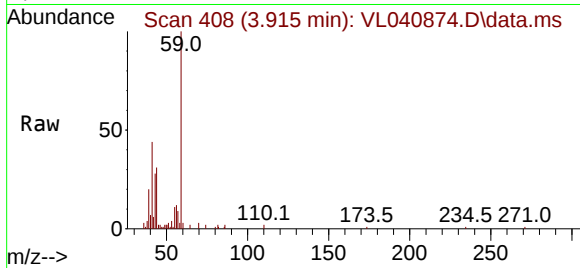




#17
tert-Butyl alcohol
Concen: 0.289 ppbv
RT: 3.915 min Scan# 408
Delta R.T. 0.048 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

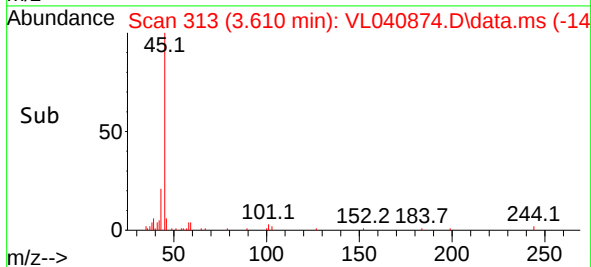
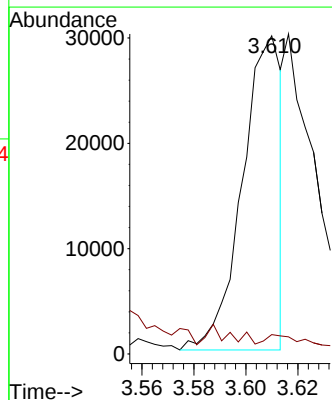
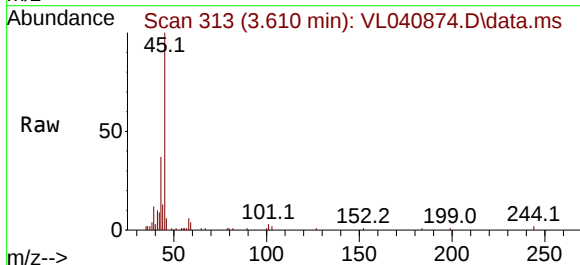
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-8

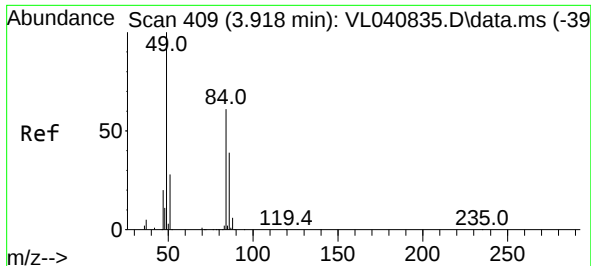
Tgt Ion: 59 Resp: 27106
Ion Ratio Lower Upper
59 100
57 19.4 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 0.469 ppbv
RT: 3.610 min Scan# 313
Delta R.T. 0.045 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion: 45 Resp: 30929
Ion Ratio Lower Upper
45 100
58 632.3 1.6 2.4#



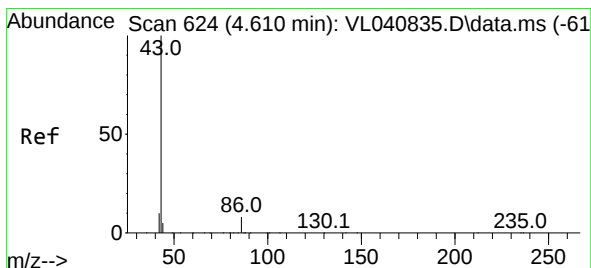
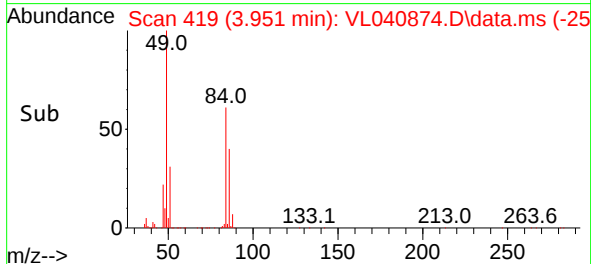
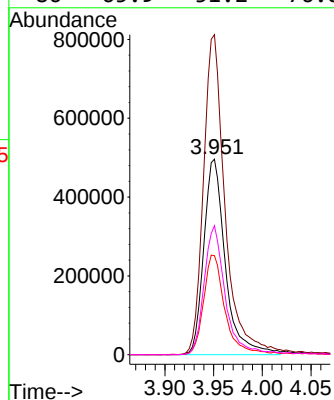
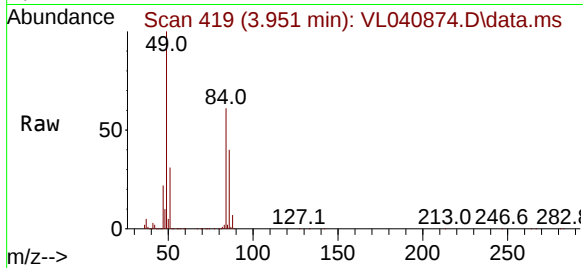


#20
Methylene Chloride
Concen: 16.990 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.032 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Instrument :
MSVOA_1
ClientSampleId :
NT-SS-8

Tgt Ion: 84 Resp: 767814

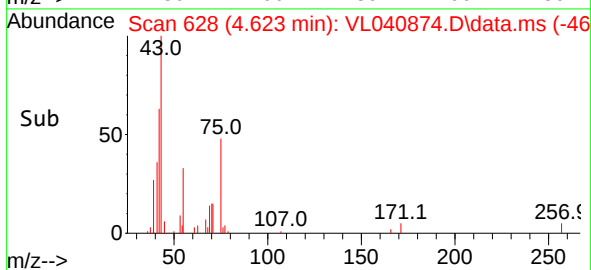
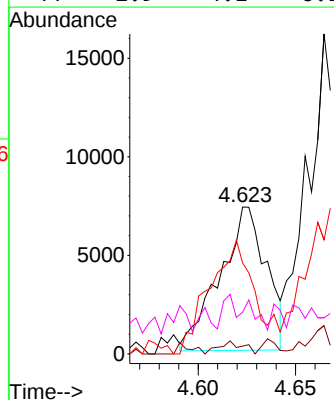
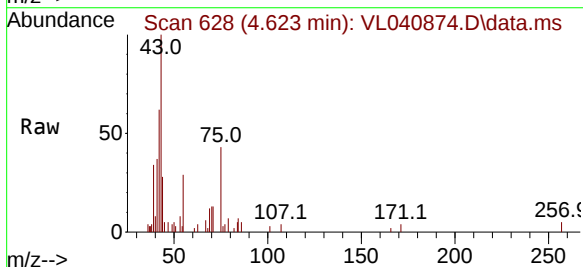
Ion	Ratio	Lower	Upper
84	100		
49	163.5	131.0	196.4
51	50.5	36.9	55.3
86	65.9	51.2	76.8

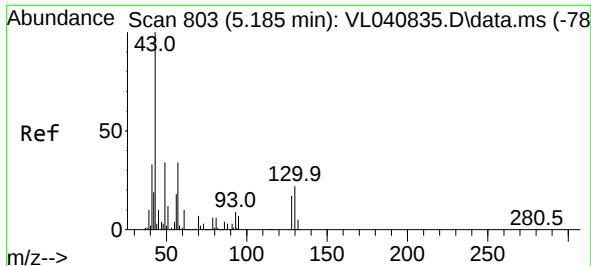


#23
Vinyl Acetate
Concen: 0.085 ppbv
RT: 4.623 min Scan# 628
Delta R.T. 0.013 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion: 43 Resp: 12070

Ion	Ratio	Lower	Upper
43	100		
86	2.5	5.5	8.3#
42	50.9	8.2	12.2#
44	2.9	4.1	6.1#

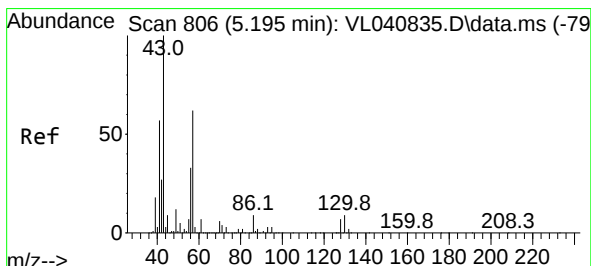
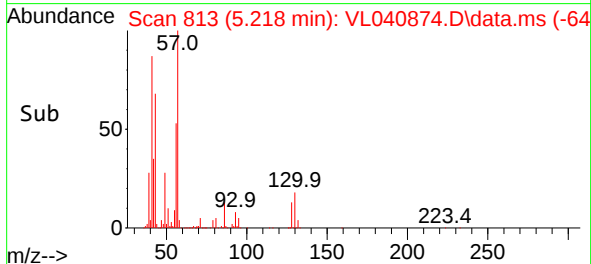
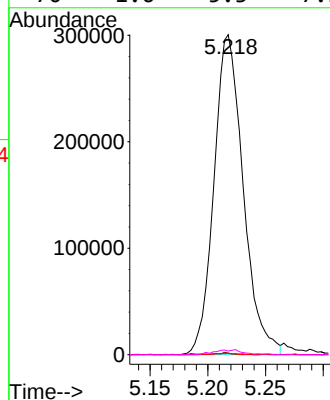
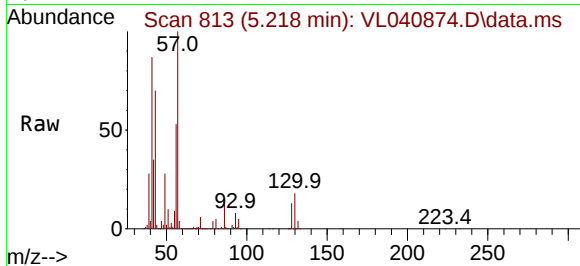




#25
Ethyl Acetate
Concen: 2.339 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.032 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

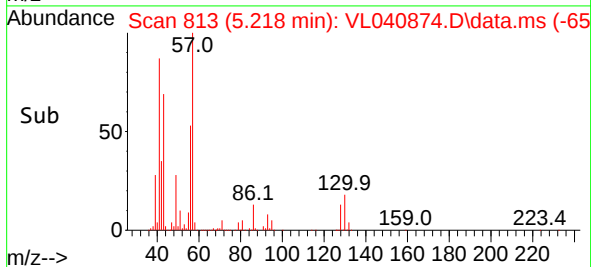
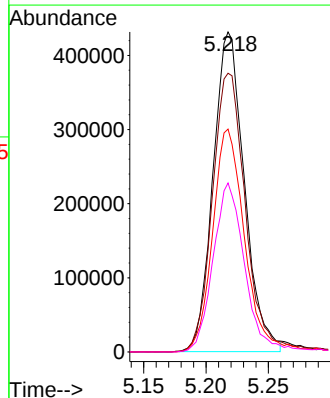
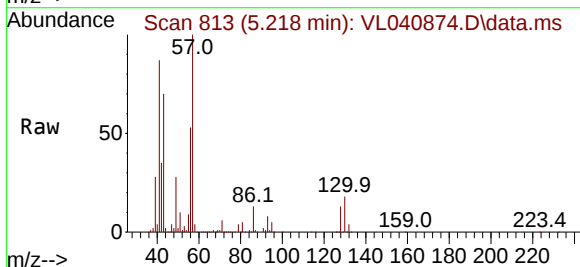
Instrument :
MSVOA_L
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NT-SS-8

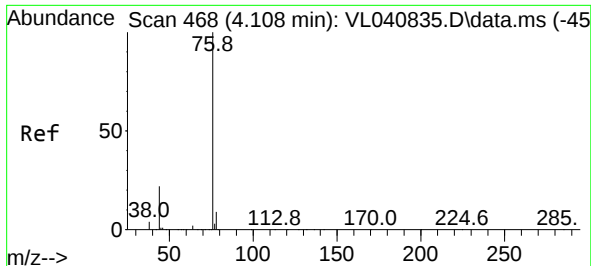
Tgt Ion:	43	Resp:	530251
Ion	Ratio	Lower	Upper
43	100		
45	0.6	8.1	12.1#
61	0.3	7.8	11.6#
70	1.6	5.3	7.9#



#26
Hexane
Concen: 7.497 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.023 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion:	57	Resp:	752381
Ion	Ratio	Lower	Upper
57	100		
41	94.0	75.4	113.0
43	72.4	185.9	278.9#
56	54.2	42.6	63.8

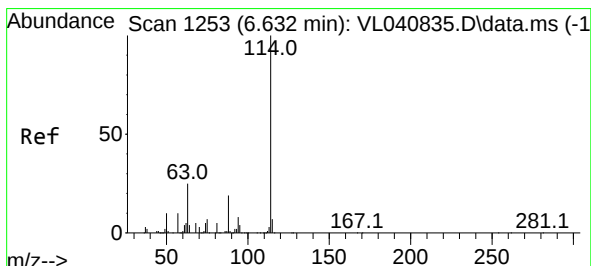
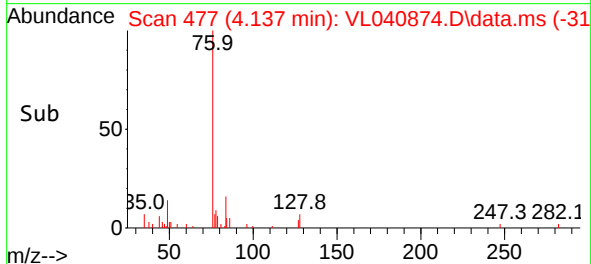
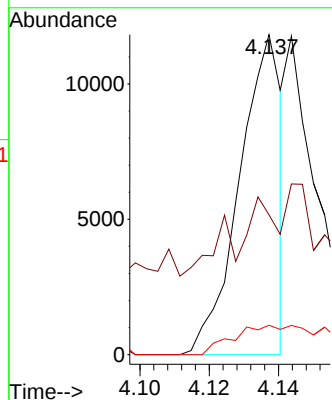
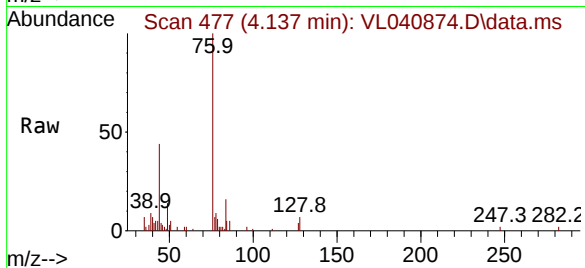




#27
Carbon Disulfide
Concen: 0.078 ppbv
RT: 4.137 min Scan# 41
Delta R.T. 0.029 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

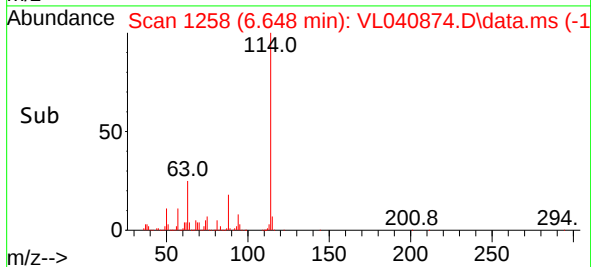
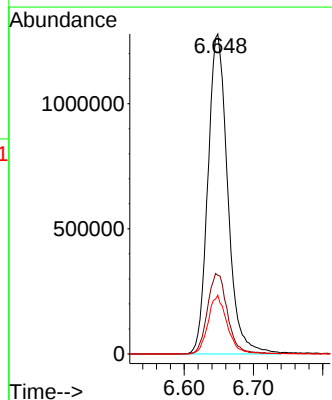
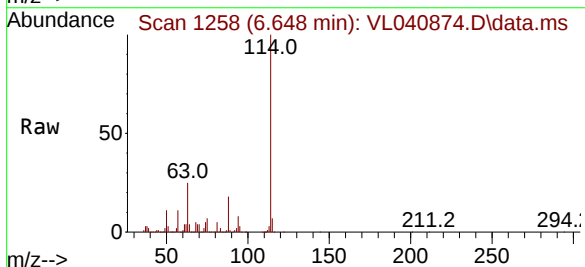
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-8

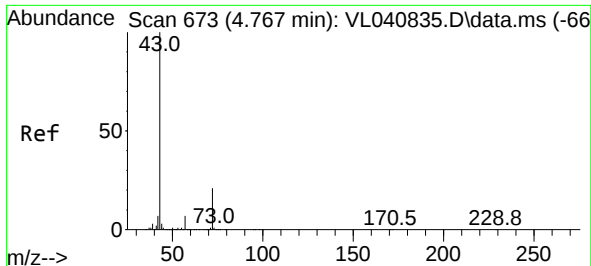
Tgt Ion: 76 Resp: 9934
Ion Ratio Lower Upper
76 100
44 0.0 16.7 25.1#
78 0.0 7.6 11.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.016 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion: 114 Resp: 2534361
Ion Ratio Lower Upper
114 100
63 25.7 20.9 31.3
88 17.8 14.3 21.5





#34

2-Butanone

Concen: 0.221 ppbv

RT: 4.803 min Scan# 61

Delta R.T. 0.036 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

Instrument :

MSVOA_L

ClientSampleId :

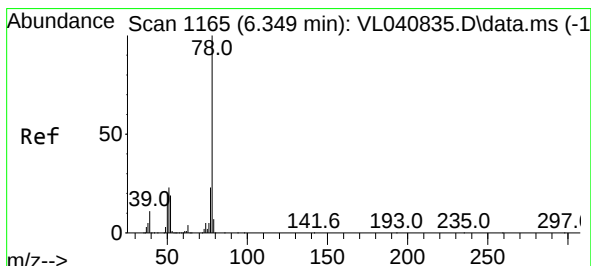
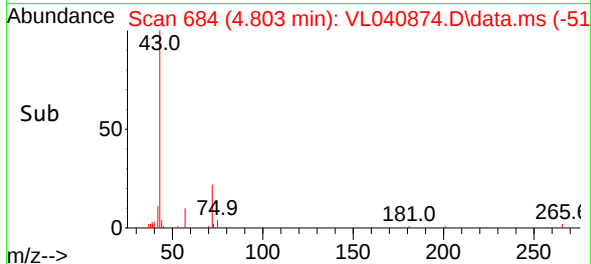
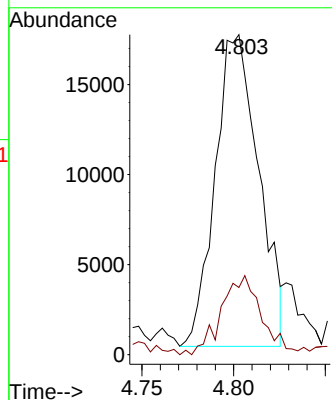
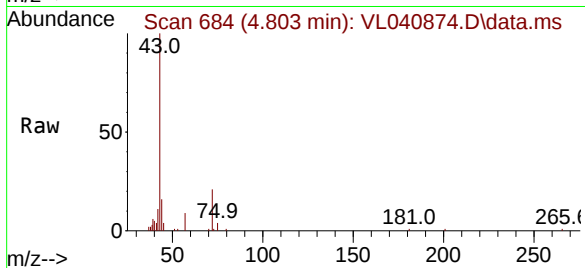
NT-SS-8

Tgt Ion: 43 Resp: 28560

Ion Ratio Lower Upper

43 100

72 23.7 17.2 25.8



#36

Benzene

Concen: 0.039 ppbv

RT: 6.369 min Scan# 1171

Delta R.T. 0.019 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

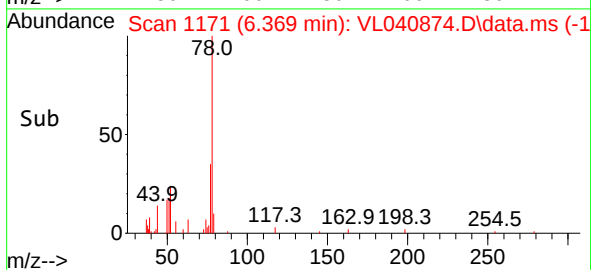
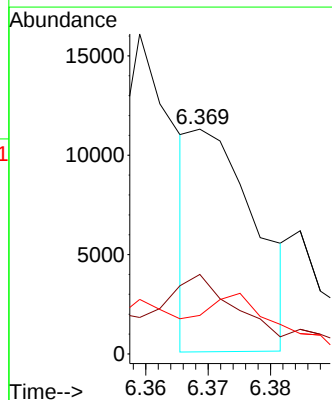
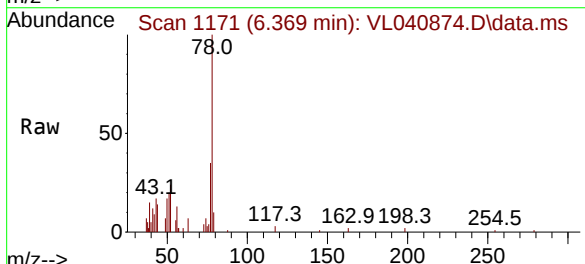
Tgt Ion: 78 Resp: 7988

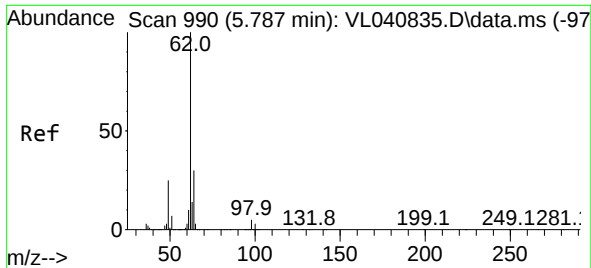
Ion Ratio Lower Upper

78 100

77 54.7 18.4 27.6#

50 7.8 16.2 24.2#





#37

1,2-Dichloroethane

Concen: 0.053 ppbv

RT: 5.806 min Scan# 990

Delta R.T. 0.019 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

Instrument :

MSVOA_L

ClientSampleId :

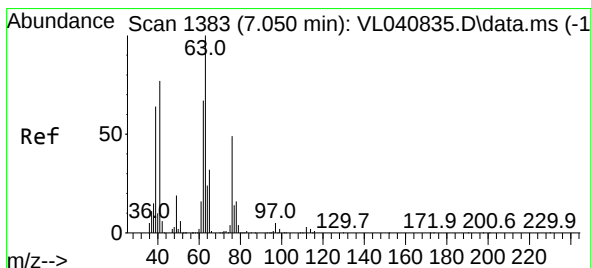
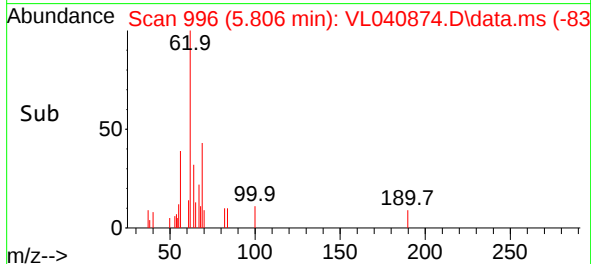
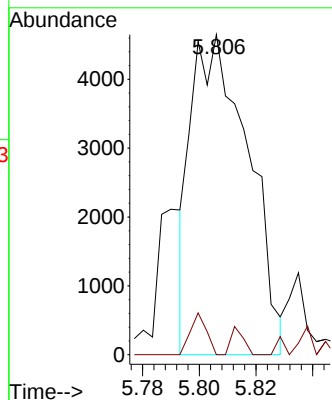
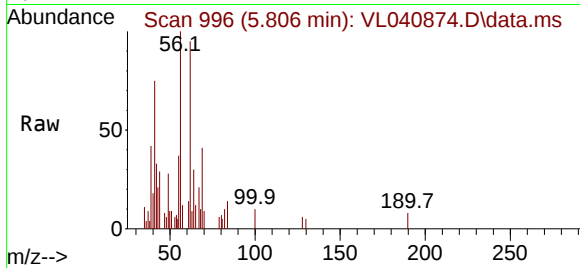
NT-SS-8

Tgt Ion: 62 Resp: 6472

Ion Ratio Lower Upper

62 100

98 5.6 4.6 6.8



#39

1,2-Dichloropropane

Concen: 7.881 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. -0.405 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

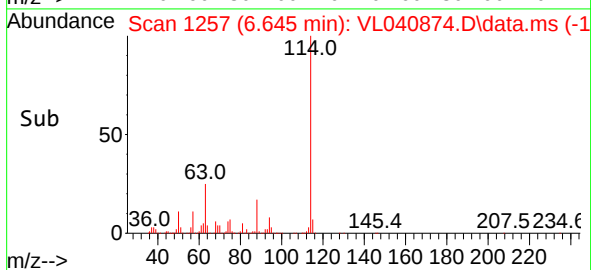
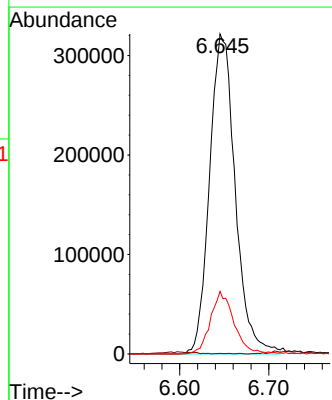
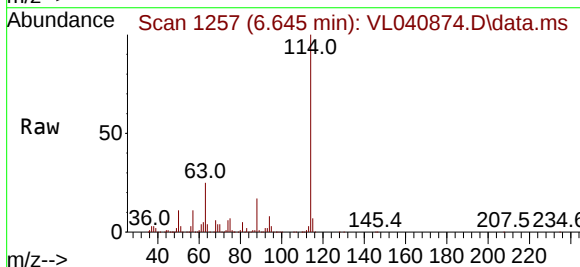
Tgt Ion: 63 Resp: 642702

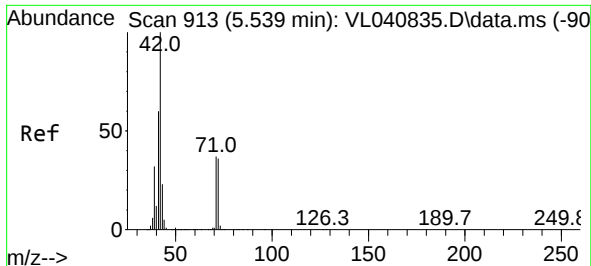
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 19.5 53.9 80.9#





#41

Tetrahydrofuran

Concen: 3.533 ppbv

RT: 5.214 min Scan# 81

Delta R.T. -0.325 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-8

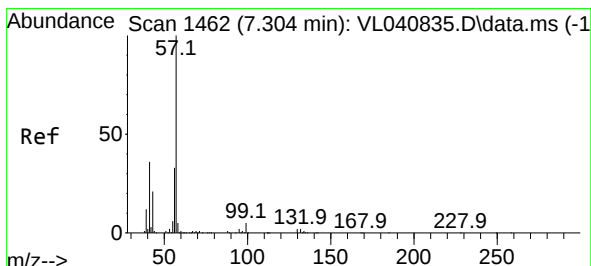
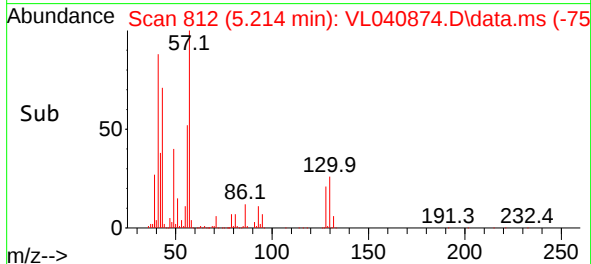
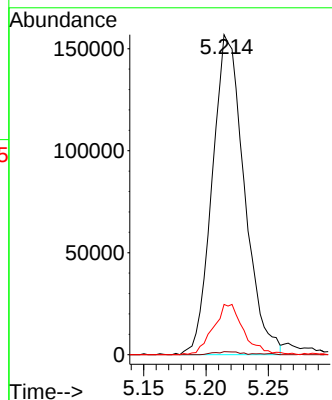
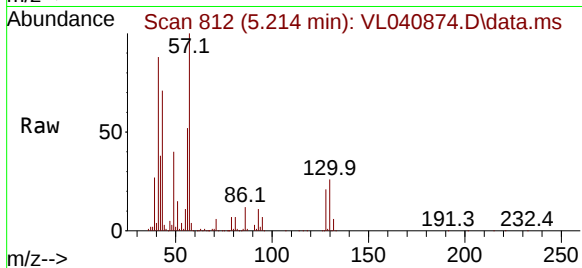
Tgt Ion: 42 Resp: 280859

Ion Ratio Lower Upper

42 100

72 1.0 30.8 46.2#

71 15.2 30.0 45.0#



#44

2,2,4-Trimethylpentane

Concen: 0.039 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.013 min

Lab File: VL040874.D

Acq: 15 Nov 2023 18:52

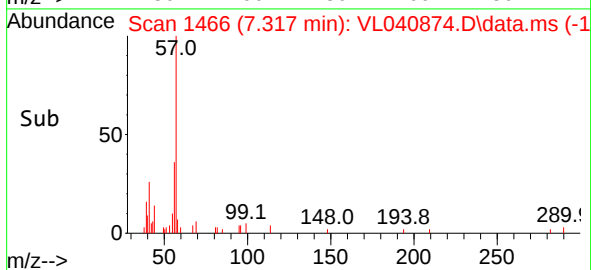
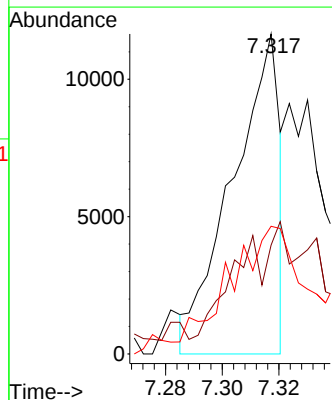
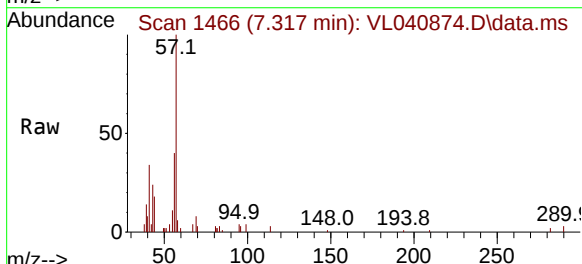
Tgt Ion: 57 Resp: 13387

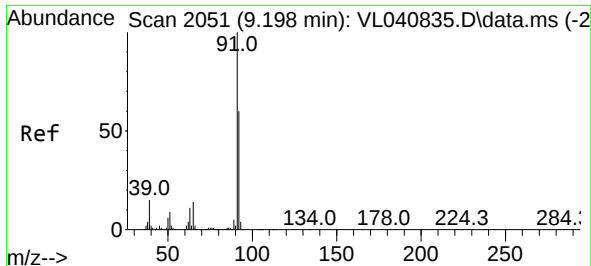
Ion Ratio Lower Upper

57 100

41 84.7 29.0 43.6#

56 80.0 25.2 37.8#

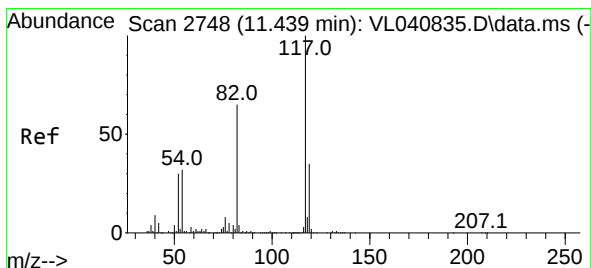
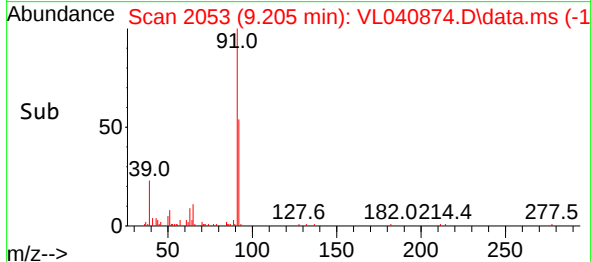
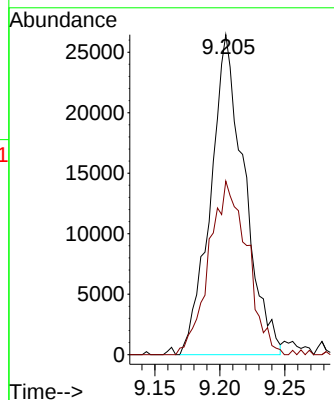
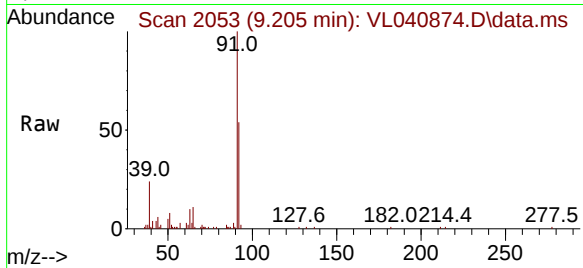




#53
Toluene
Concen: 0.212 ppbv
RT: 9.205 min Scan# 2053
Delta R.T. 0.007 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

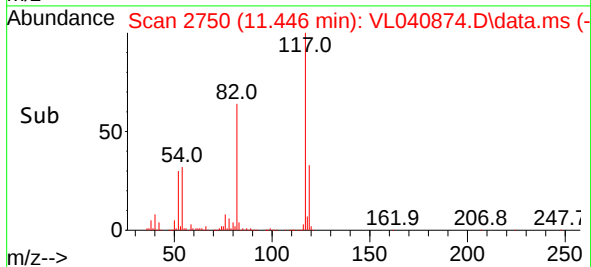
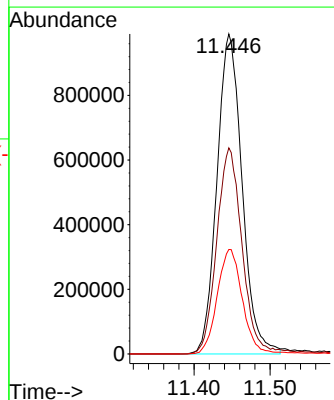
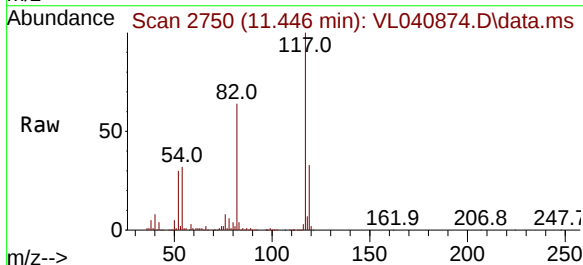
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-8

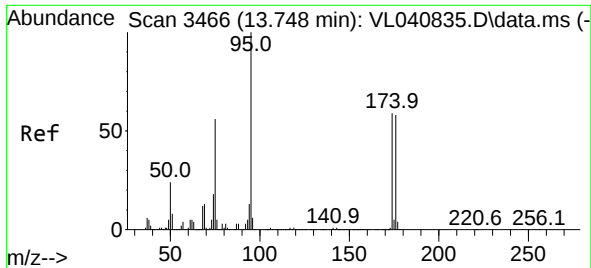
Tgt Ion: 91 Resp: 47924
Ion Ratio Lower Upper
91 100
92 61.4 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. 0.007 min
Lab File: VL040874.D
Acq: 15 Nov 2023 18:52

Tgt Ion: 117 Resp: 2273677
Ion Ratio Lower Upper
117 100
82 66.5 50.6 75.8
119 33.4 23.3 34.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.808 ppbv
 RT: 13.754 min Scan# 3468
 Delta R.T. 0.007 min
 Lab File: VL040874.D
 Acq: 15 Nov 2023 18:52

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-8

Tgt Ion: 95 Resp: 1746036

Ion	Ratio	Lower	Upper
95	100		
174	61.1	47.5	71.3
175	4.5	3.6	5.4

