

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040873.D
 Acq On : 15 Nov 2023 18:12
 Operator : SY/MD
 Sample : 05277-05 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-7

Quant Time: Nov 16 05:54:37 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)

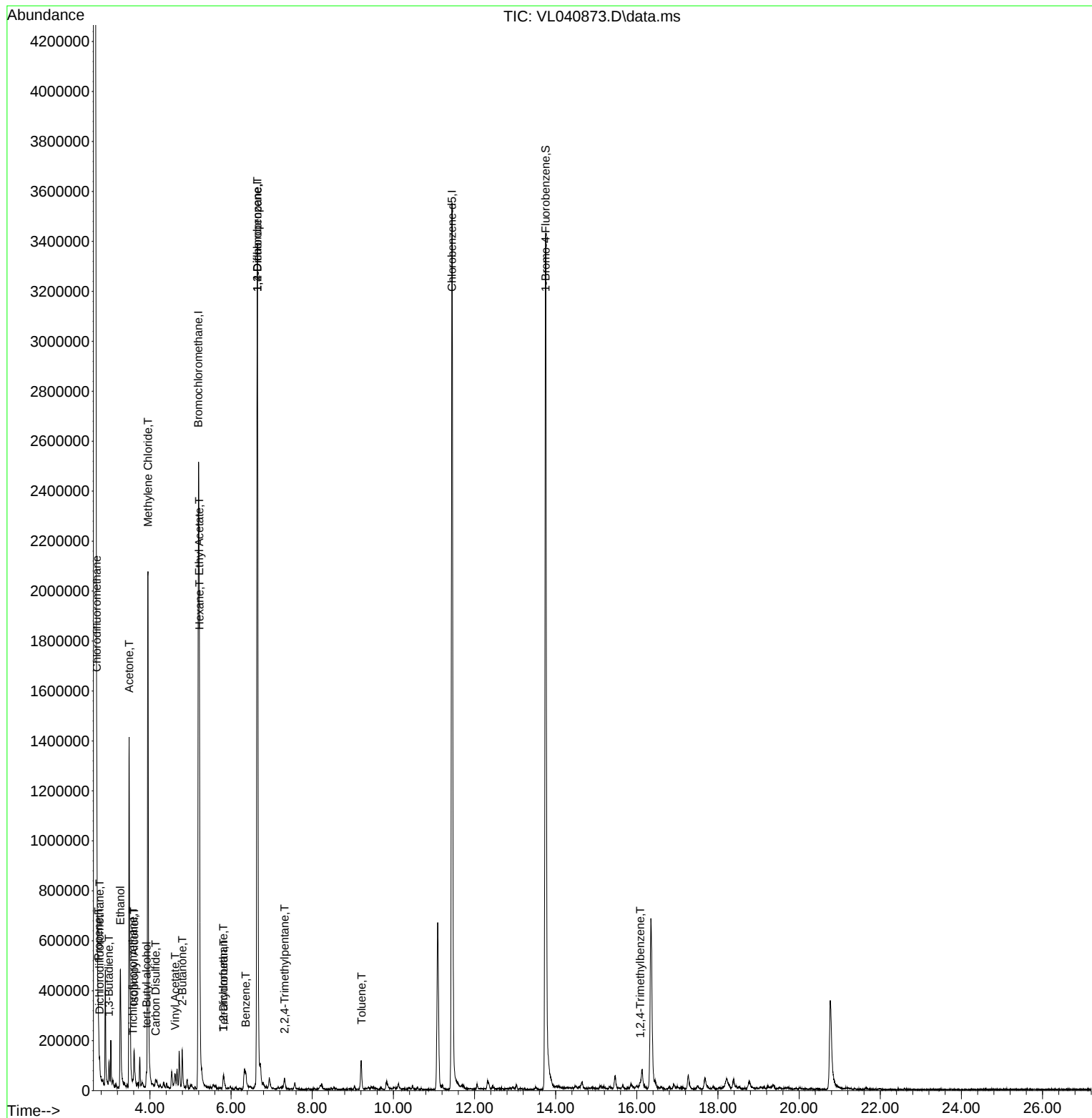
Internal Standards						
1) Bromochloromethane	5.195	49	1049819	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.648	114	2599104	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.442	117	2333412	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1824457	9.987	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.761	85	23435	0.110	ppbv	96
3) Chlorodifluoromethane	2.687	51	26070	0.156	ppbv #	76
9) Propene	2.729	41	41631	0.737	ppbv	96
11) Trichlorofluoromethane	3.581	101	9921	0.061	ppbv	95
13) Ethanol	3.272	45	499623	45.550	ppbv #	100
15) Acetone	3.488	43	1370431	12.257	ppbv	95
16) 1,3-Butadiene	2.993	39	28144	0.498	ppbv #	11
17) tert-Butyl alcohol	3.919	59	39326	0.411	ppbv #	93
19) Isopropyl Alcohol	3.610	45	156285	2.323	ppbv #	1
20) Methylene Chloride	3.951	84	668948	14.497	ppbv	97
23) Vinyl Acetate	4.623	43	11058	0.077	ppbv #	63
25) Ethyl Acetate	5.218	43	405423	1.751	ppbv #	76
26) Hexane	5.221	57	552564	5.393	ppbv #	42
27) Carbon Disulfide	4.140	76	26239	0.202	ppbv #	45
34) 2-Butanone	4.796	43	165179	1.247	ppbv	97
36) Benzene	6.362	78	14739	0.070	ppbv #	84
37) 1,2-Dichloroethane	5.806	62	16329	0.131	ppbv #	96
39) 1,2-Dichloropropane	6.645	63	649861	7.770	ppbv #	23
41) Tetrahydrofuran	5.819	42	3820	0.047	ppbv #	40
44) 2,2,4-Trimethylpentane	7.317	57	15991	0.046	ppbv #	1
53) Toluene	9.217	91	19855	0.086	ppbv #	20
74) 1,2,4-Trimethylbenzene	16.082	105	9588	0.036	ppbv #	64

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

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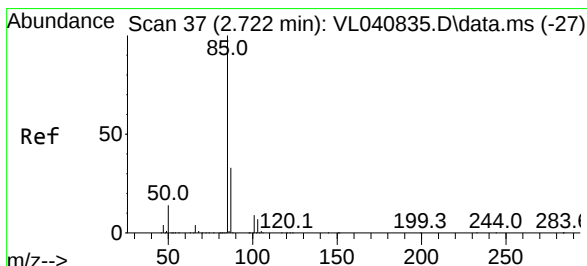
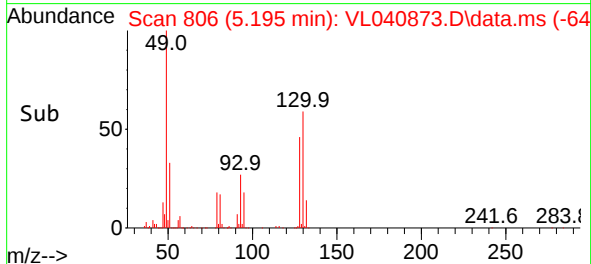
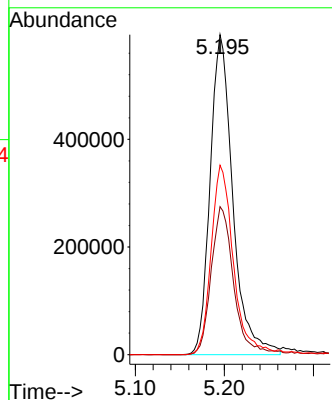
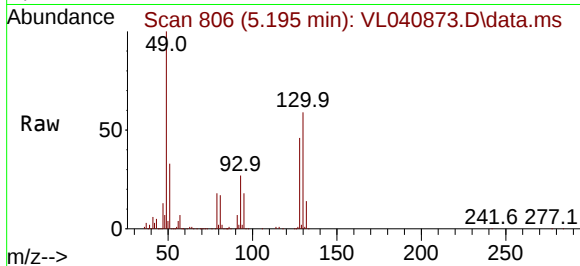




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.023 min
 Lab File: VL040873.D
 Acq: 15 Nov 2023 18:12

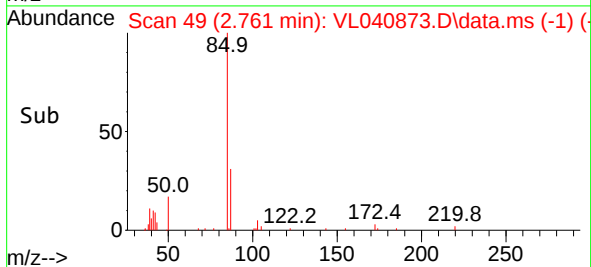
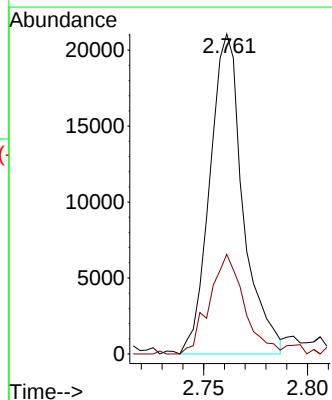
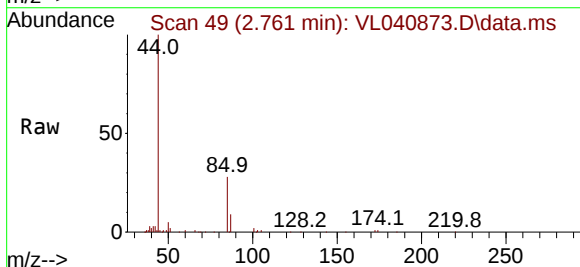
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-7

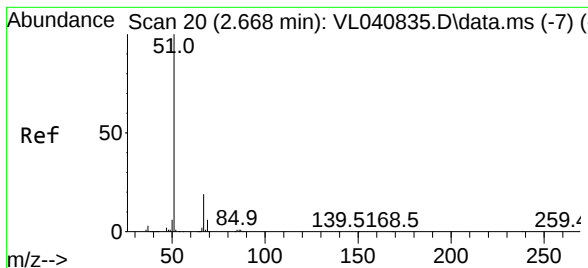
Tgt Ion: 49 Resp: 1049819
 Ion Ratio Lower Upper
 49 100
 128 47.2 23.8 71.2
 130 59.5 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.110 ppbv
 RT: 2.761 min Scan# 49
 Delta R.T. 0.039 min
 Lab File: VL040873.D
 Acq: 15 Nov 2023 18:12

Tgt Ion: 85 Resp: 23435
 Ion Ratio Lower Upper
 85 100
 87 31.1 26.7 40.1





#3

Chlorodifluoromethane

Concen: 0.156 ppbv

RT: 2.687 min Scan# 20

Delta R.T. 0.019 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

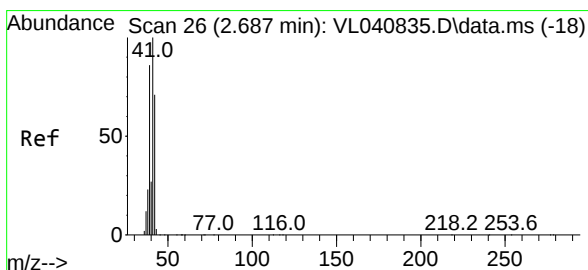
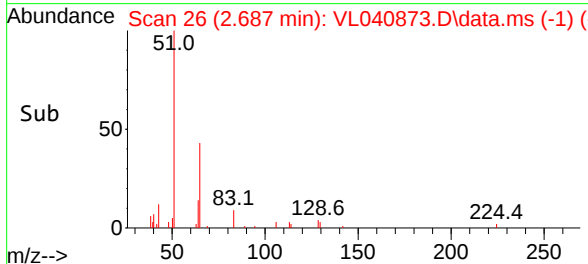
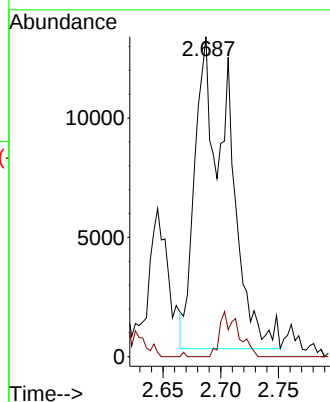
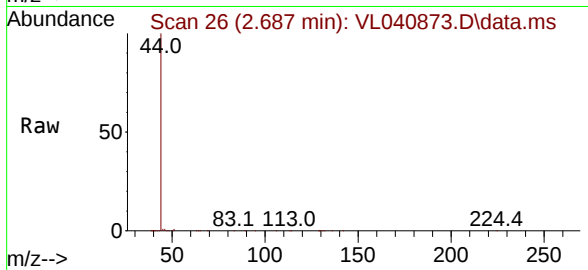
NT-SS-7

Tgt Ion: 51 Resp: 26070

Ion Ratio Lower Upper

51 100

67 8.1 15.0 22.4#



#9

Propene

Concen: 0.737 ppbv

RT: 2.729 min Scan# 39

Delta R.T. 0.042 min

Lab File: VL040873.D

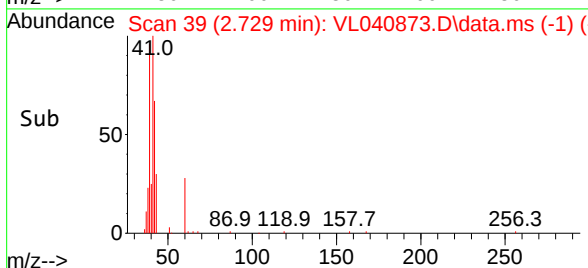
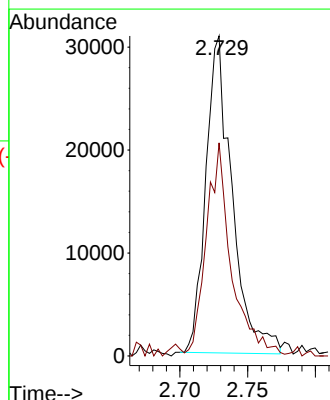
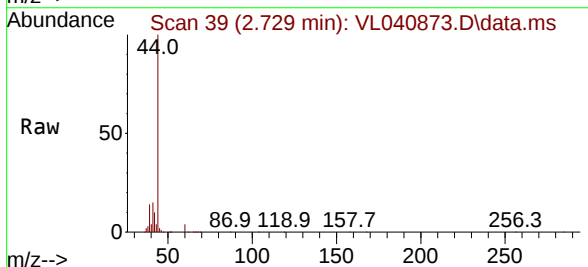
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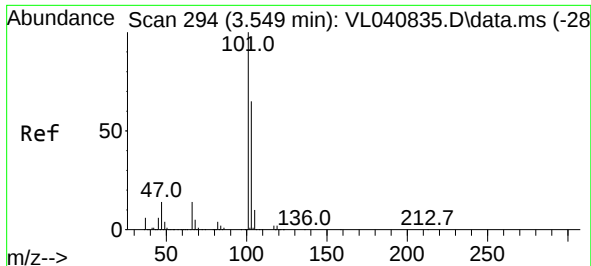
Tgt Ion: 41 Resp: 41631

Ion Ratio Lower Upper

41 100

42 67.3 56.5 84.7

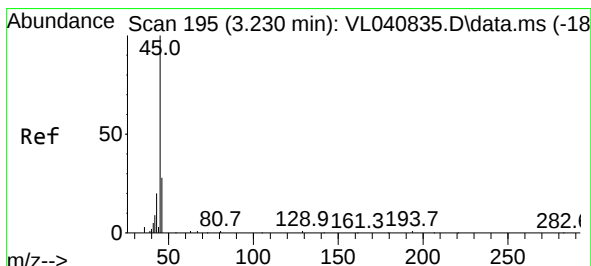
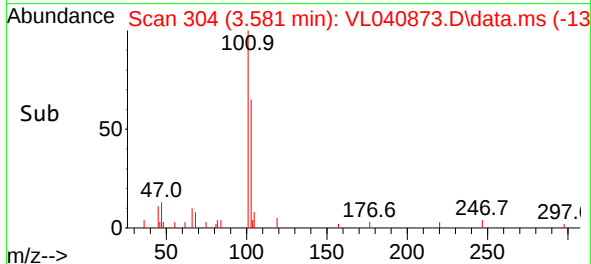
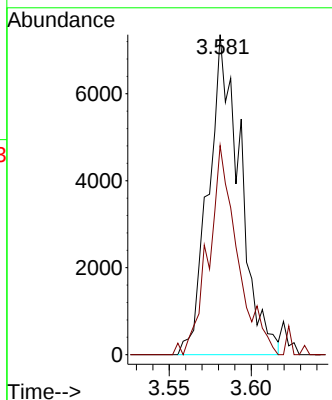
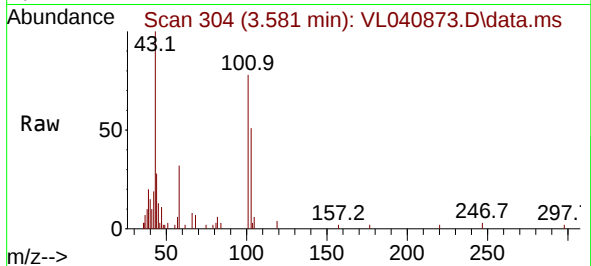




#11
 Trichlorofluoromethane
 Concen: 0.061 ppbv
 RT: 3.581 min Scan# 304
 Delta R.T. 0.032 min
 Lab File: VL040873.D
 Acq: 15 Nov 2023 18:12

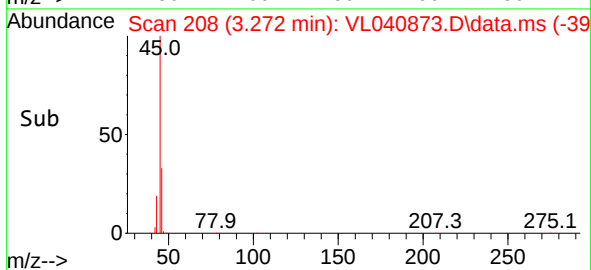
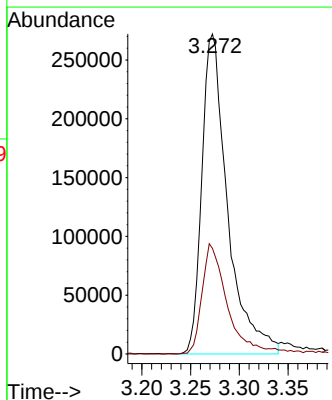
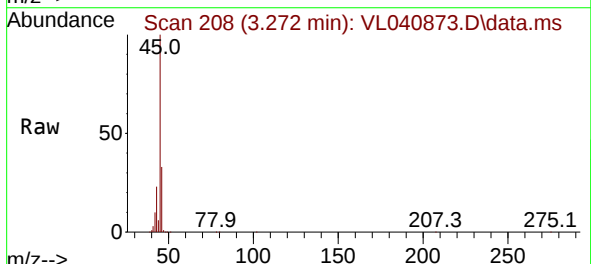
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-7

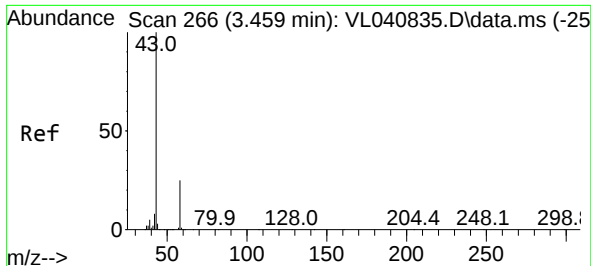
Tgt Ion:101 Resp: 9921
 Ion Ratio Lower Upper
 101 100
 103 69.0 51.8 77.8



#13
 Ethanol
 Concen: 45.550 ppbv
 RT: 3.272 min Scan# 208
 Delta R.T. 0.042 min
 Lab File: VL040873.D
 Acq: 15 Nov 2023 18:12

Tgt Ion: 45 Resp: 499623
 Ion Ratio Lower Upper
 45 100
 46 35.2 0.0 0.0#

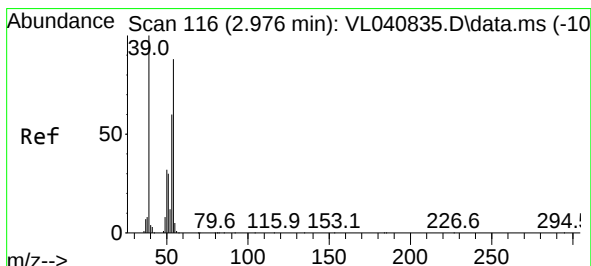
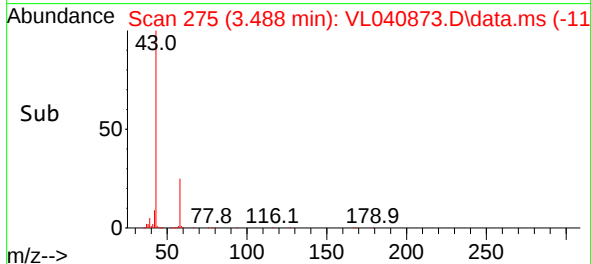
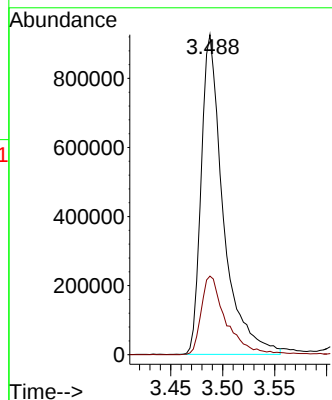
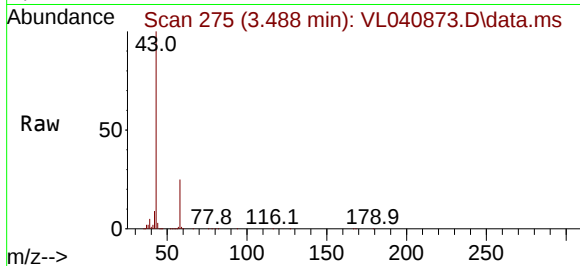




#15
Acetone
Concen: 12.257 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.029 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

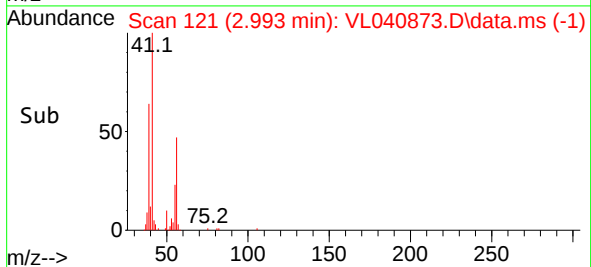
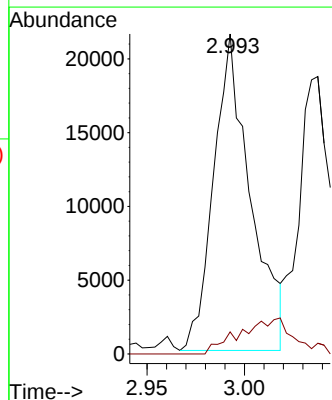
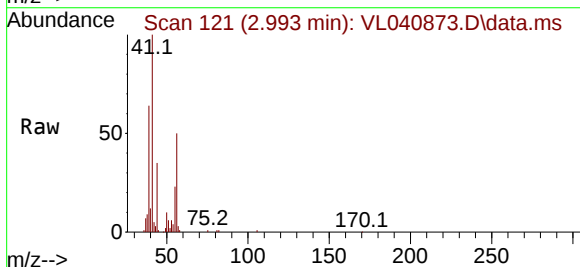
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-7

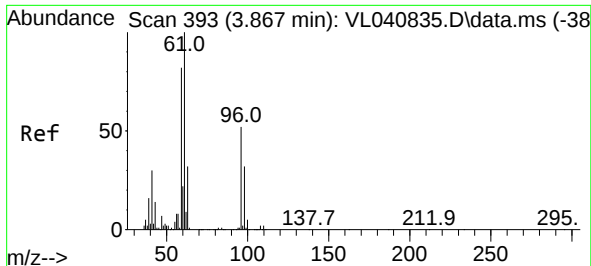
Tgt Ion: 43 Resp: 1370431
Ion Ratio Lower Upper
43 100
58 28.6 20.9 31.3



#16
1,3-Butadiene
Concen: 0.498 ppbv
RT: 2.993 min Scan# 121
Delta R.T. 0.016 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Tgt Ion: 39 Resp: 28144
Ion Ratio Lower Upper
39 100
54 0.0 61.8 92.6#





#17

tert-Butyl alcohol

Concen: 0.411 ppbv

RT: 3.919 min Scan# 409

Delta R.T. 0.052 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

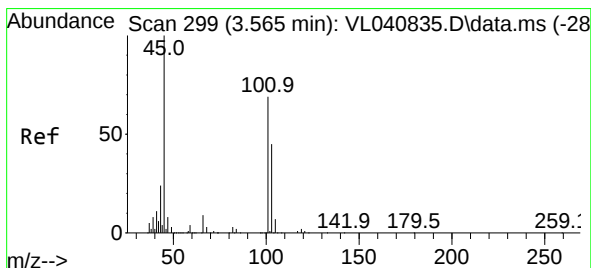
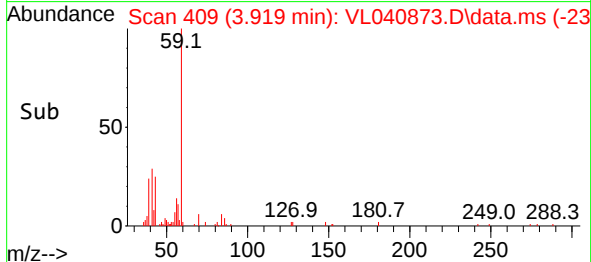
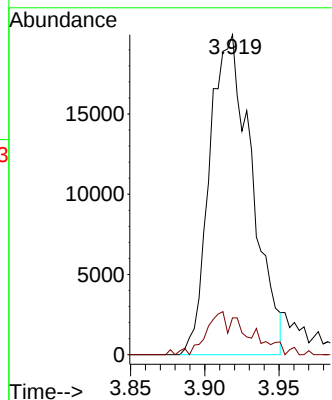
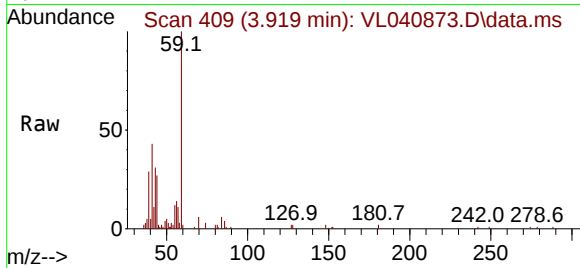
NT-SS-7

Tgt Ion: 59 Resp: 39326

Ion Ratio Lower Upper

59 100

57 13.8 9.0 13.4#



#19

Isopropyl Alcohol

Concen: 2.323 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.045 min

Lab File: VL040873.D

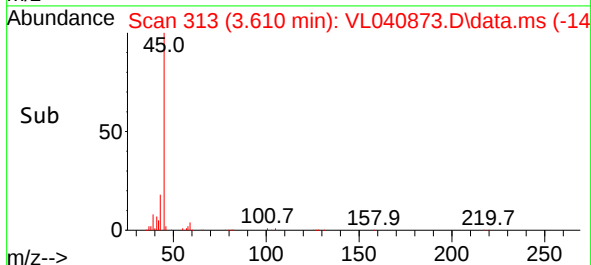
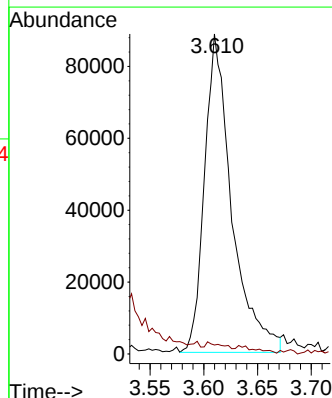
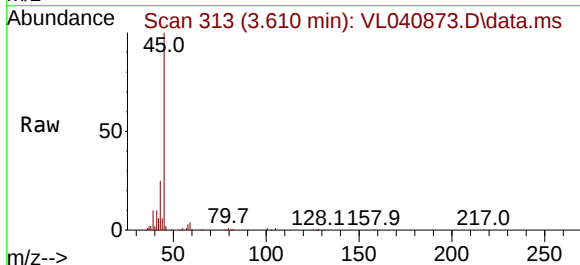
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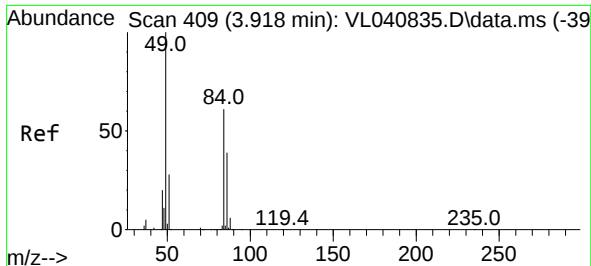
Tgt Ion: 45 Resp: 156285

Ion Ratio Lower Upper

45 100

58 250.9 1.6 2.4#





#20

Methylene Chloride

Concen: 14.497 ppbv

RT: 3.951 min Scan# 419

Delta R.T. 0.032 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-7

Tgt Ion: 84 Resp: 668948

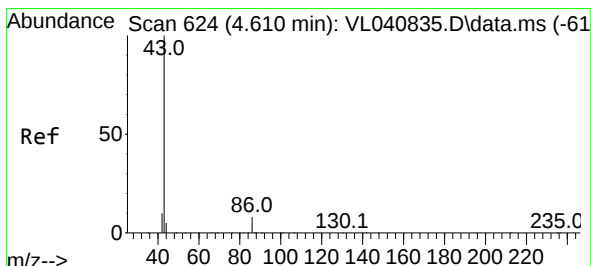
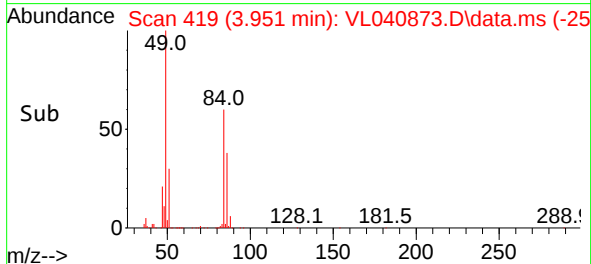
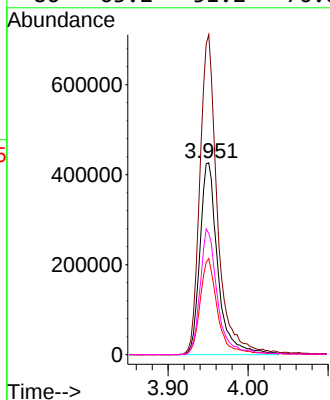
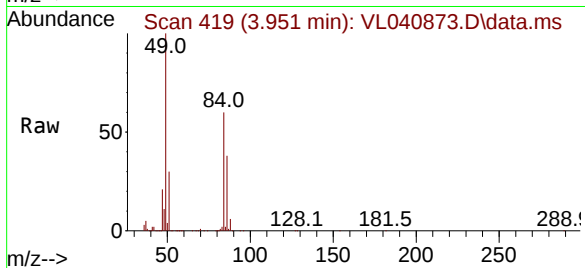
Ion Ratio Lower Upper

84 100

49 166.8 131.0 196.4

51 49.9 36.9 55.3

86 63.2 51.2 76.8



#23

Vinyl Acetate

Concen: 0.077 ppbv

RT: 4.623 min Scan# 628

Delta R.T. 0.013 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

Tgt Ion: 43 Resp: 11058

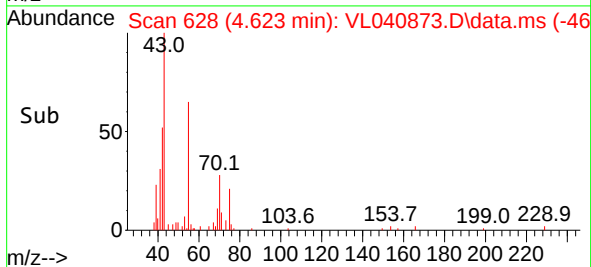
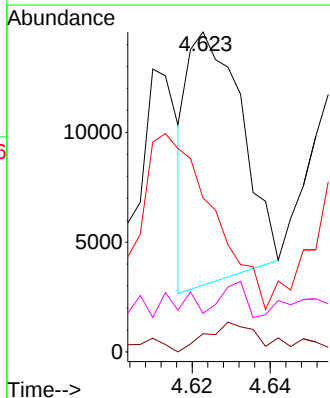
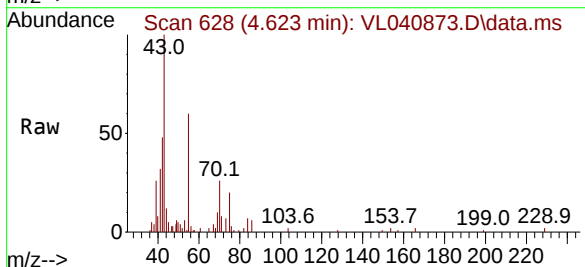
Ion Ratio Lower Upper

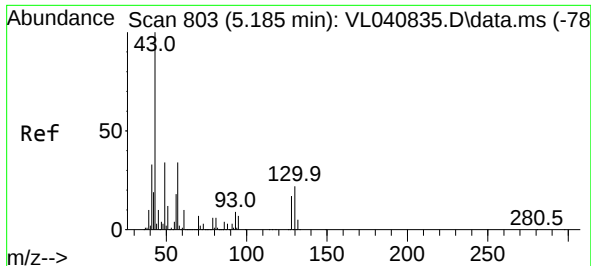
43 100

86 8.0 5.5 8.3

42 36.4 8.2 12.2#

44 0.0 4.1 6.1#

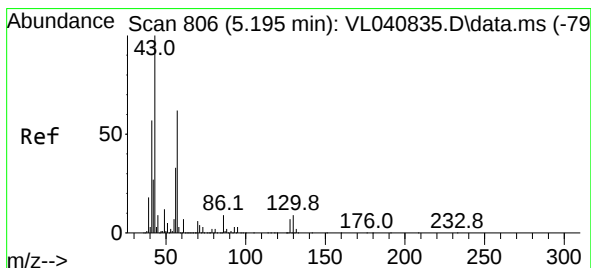
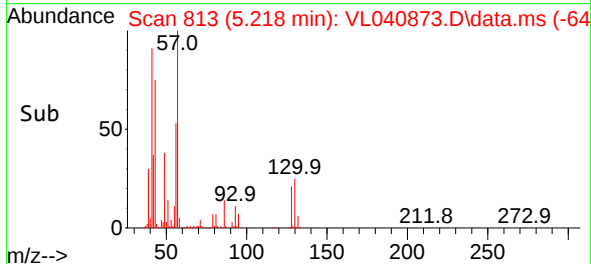
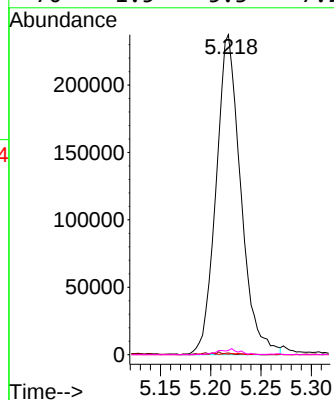
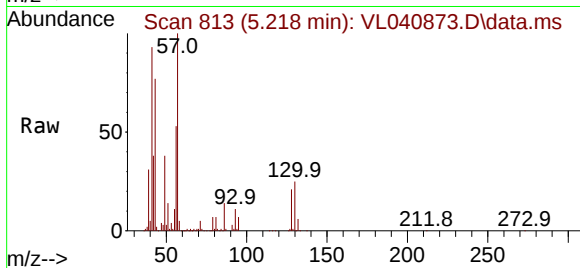




#25
Ethyl Acetate
Concen: 1.751 ppbv
RT: 5.218 min Scan# 813
Delta R.T. 0.032 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

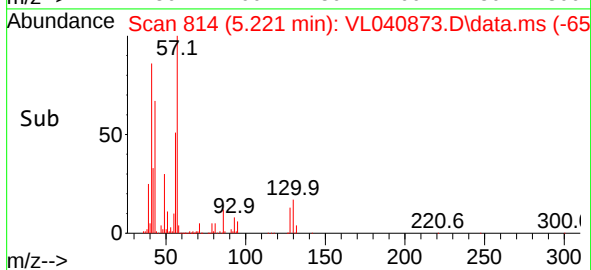
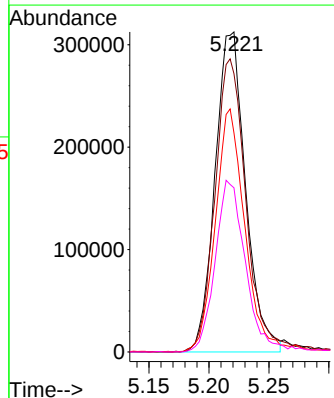
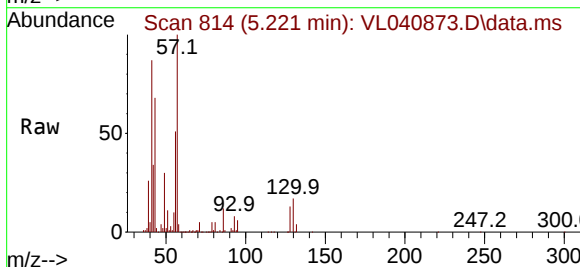
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-7

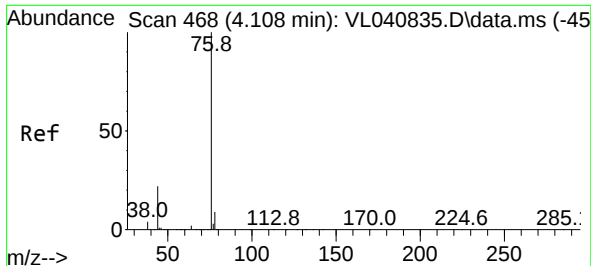
Tgt Ion: 43 Resp: 405423
Ion Ratio Lower Upper
43 100
45 0.0 8.1 12.1#
61 0.3 7.8 11.6#
70 1.5 5.3 7.9#



#26
Hexane
Concen: 5.393 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.026 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Tgt Ion: 57 Resp: 552564
Ion Ratio Lower Upper
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41 95.6 75.4 113.0
43 74.9 185.9 278.9#
56 54.4 42.6 63.8

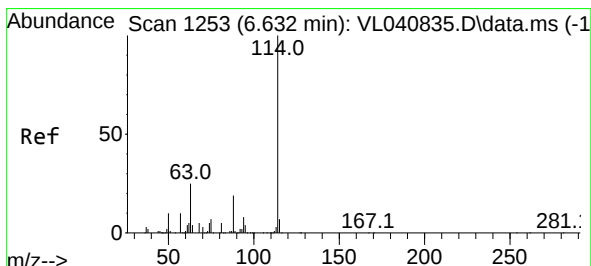
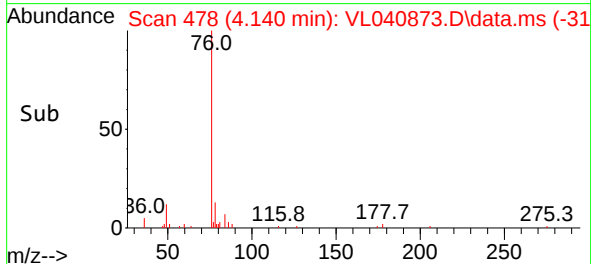
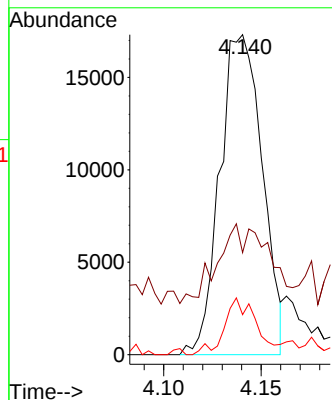
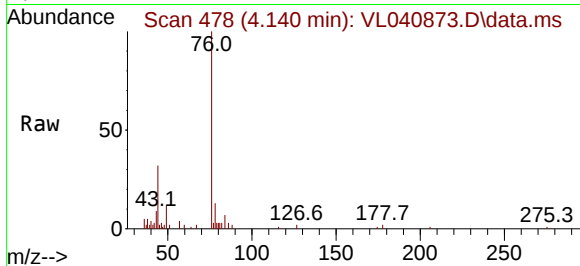




#27
Carbon Disulfide
Concen: 0.202 ppbv
RT: 4.140 min Scan# 41
Delta R.T. 0.032 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

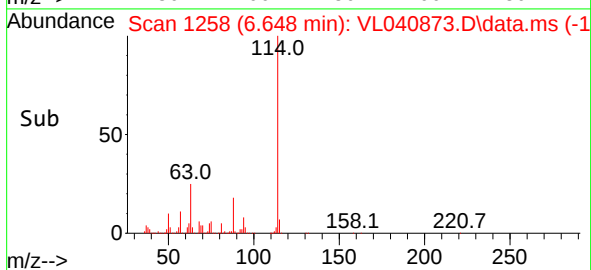
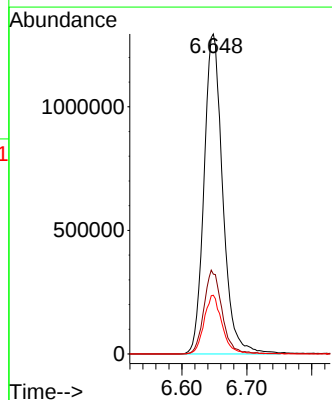
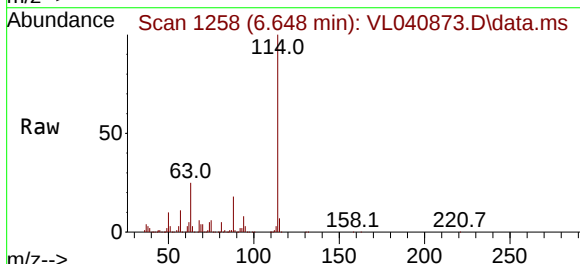
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-7

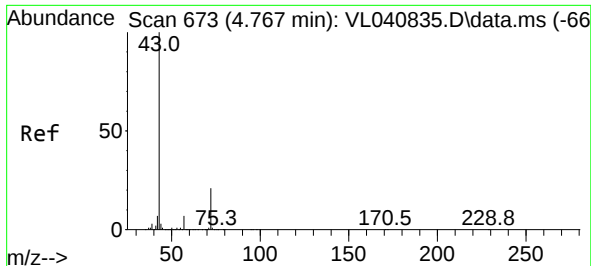
Tgt Ion: 76 Resp: 26239
Ion Ratio Lower Upper
76 100
44 53.5 16.7 25.1#
78 17.8 7.6 11.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.648 min Scan# 1258
Delta R.T. 0.016 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Tgt Ion: 114 Resp: 2599104
Ion Ratio Lower Upper
114 100
63 25.6 20.9 31.3
88 17.7 14.3 21.5

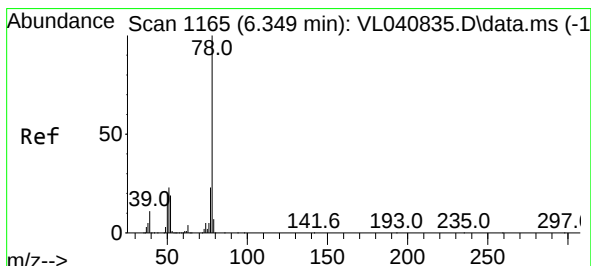
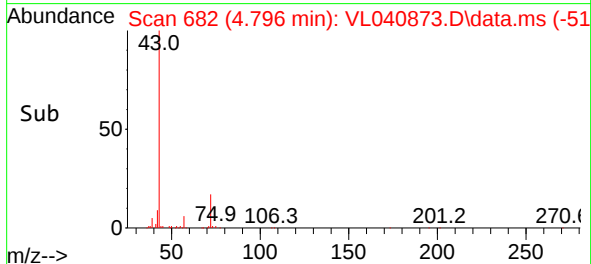
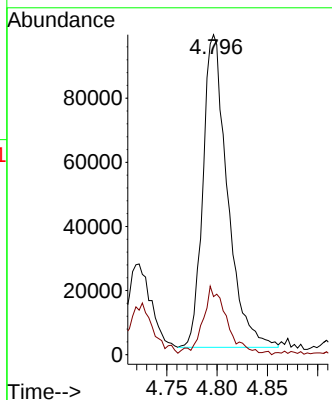
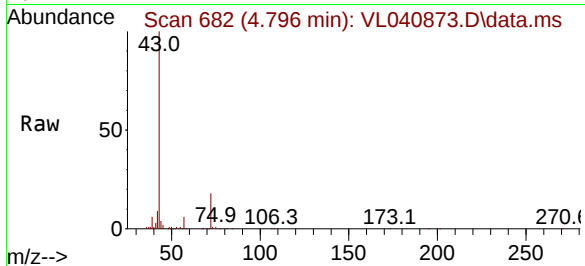




#34
2-Butanone
Concen: 1.247 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.029 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

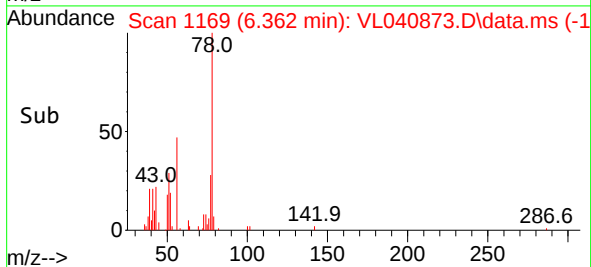
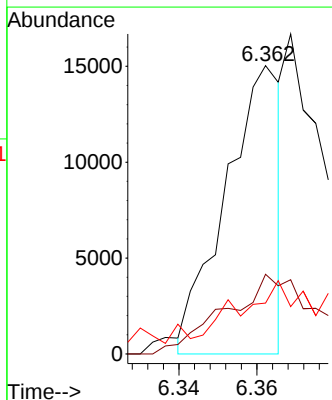
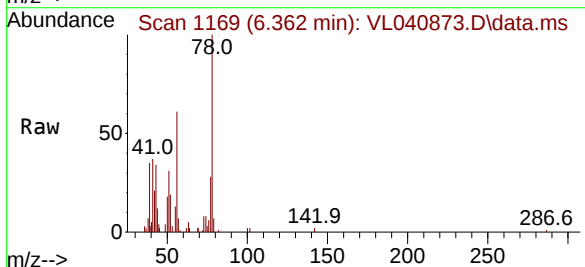
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-7

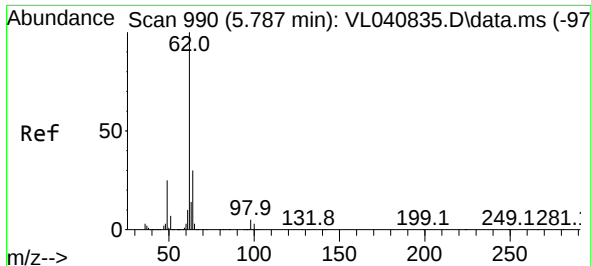
Tgt Ion: 43 Resp: 165179
Ion Ratio Lower Upper
43 100
72 23.1 17.2 25.8



#36
Benzene
Concen: 0.070 ppbv
RT: 6.362 min Scan# 1169
Delta R.T. 0.013 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Tgt Ion: 78 Resp: 14739
Ion Ratio Lower Upper
78 100
77 25.8 18.4 27.6
50 7.8 16.2 24.2#





#37

1,2-Dichloroethane

Concen: 0.131 ppbv

RT: 5.806 min Scan# 990

Delta R.T. 0.019 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

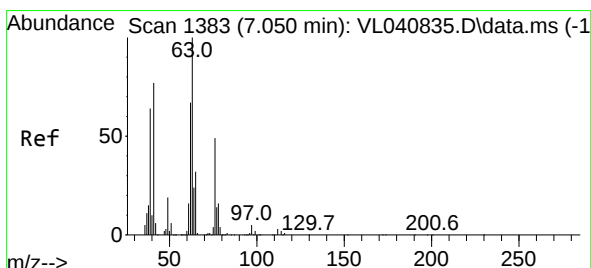
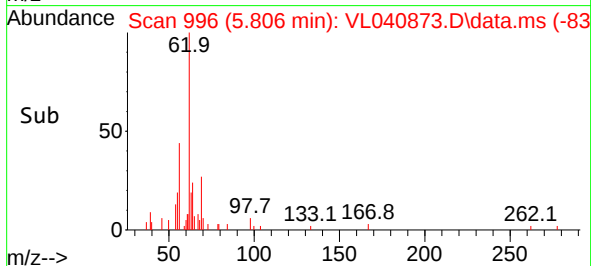
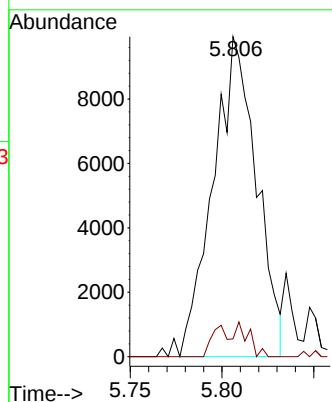
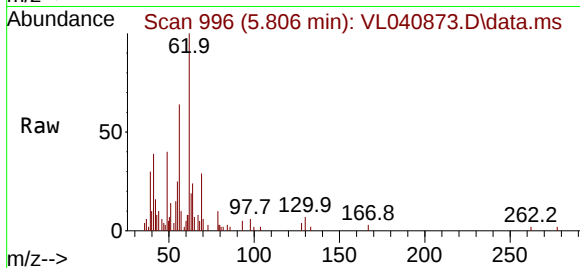
NT-SS-7

Tgt Ion: 62 Resp: 16329

Ion Ratio Lower Upper

62 100

98 7.2 4.6 6.8#



#39

1,2-Dichloropropane

Concen: 7.770 ppbv

RT: 6.645 min Scan# 1257

Delta R.T. -0.405 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

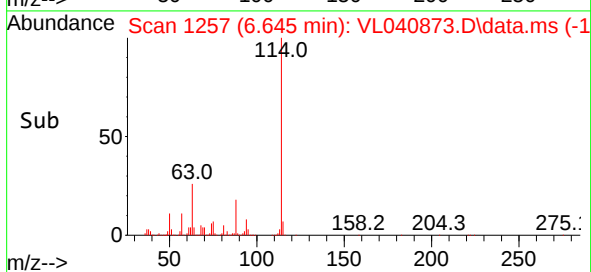
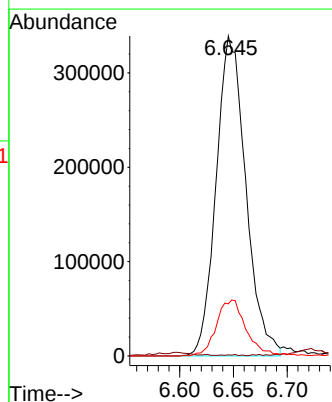
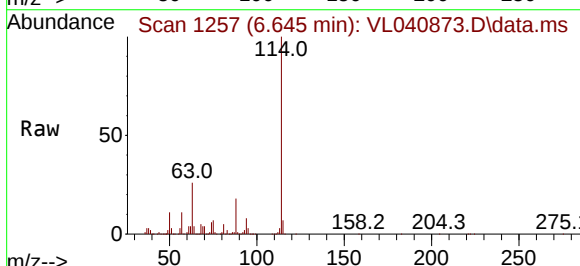
Tgt Ion: 63 Resp: 649861

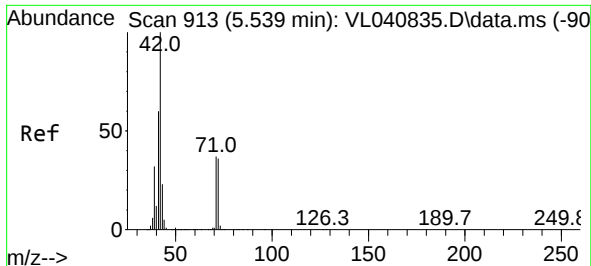
Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 16.3 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.047 ppbv

RT: 5.819 min Scan# 1000

Delta R.T. 0.280 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-7

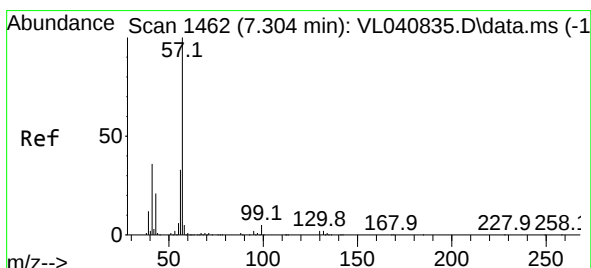
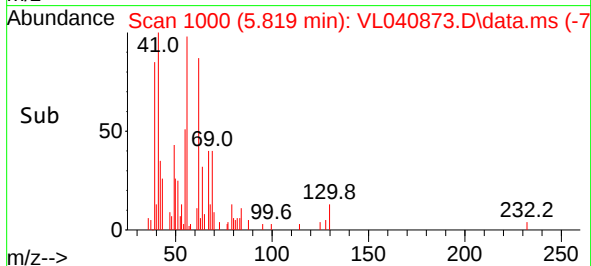
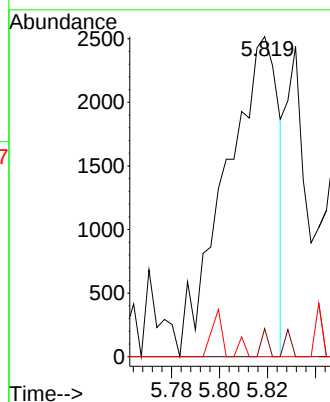
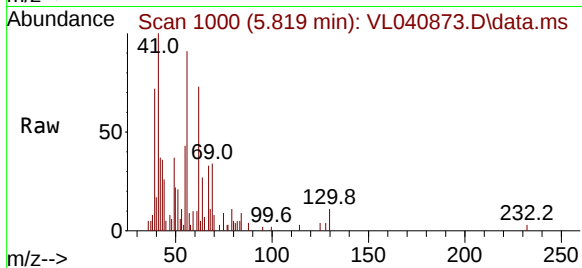
Tgt Ion: 42 Resp: 3820

Ion Ratio Lower Upper

42 100

72 3.5 30.8 46.2#

71 0.0 30.0 45.0#



#44

2,2,4-Trimethylpentane

Concen: 0.046 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. 0.013 min

Lab File: VL040873.D

Acq: 15 Nov 2023 18:12

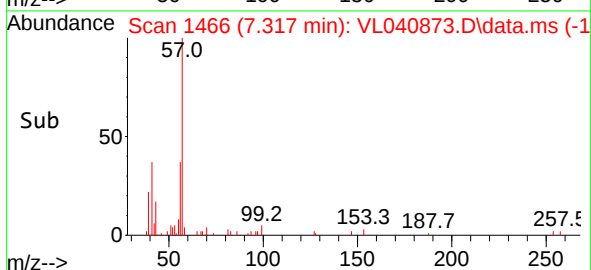
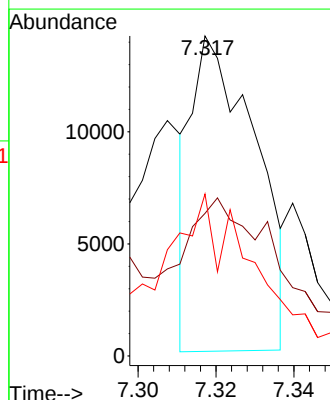
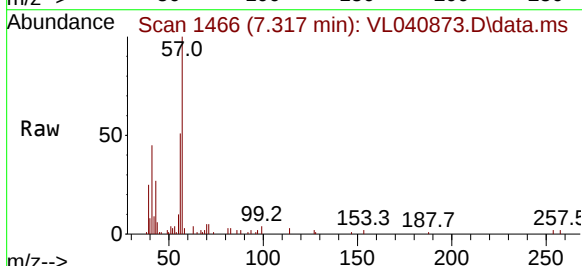
Tgt Ion: 57 Resp: 15991

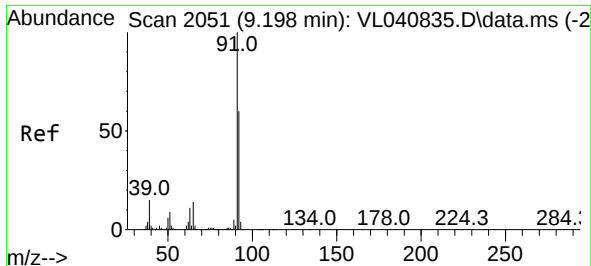
Ion Ratio Lower Upper

57 100

41 99.2 29.0 43.6#

56 95.6 25.2 37.8#

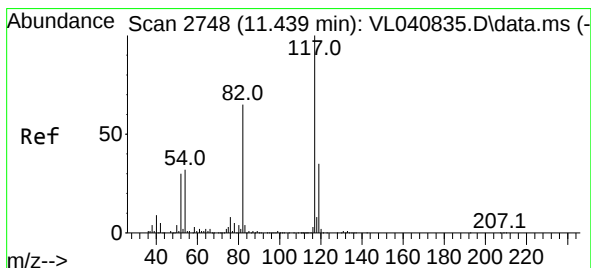
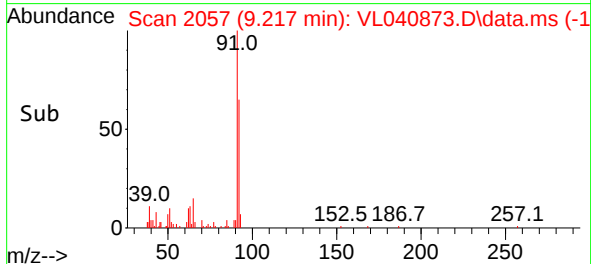
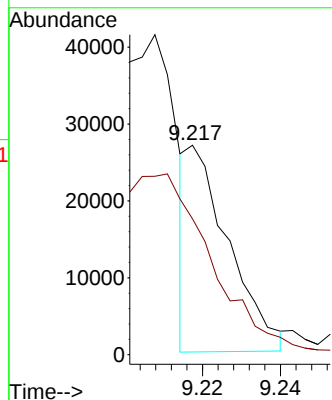
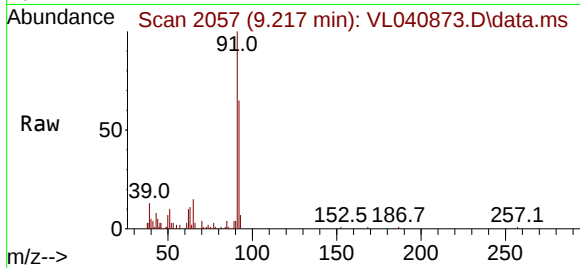




#53
Toluene
Concen: 0.086 ppbv
RT: 9.217 min Scan# 2051
Delta R.T. 0.019 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

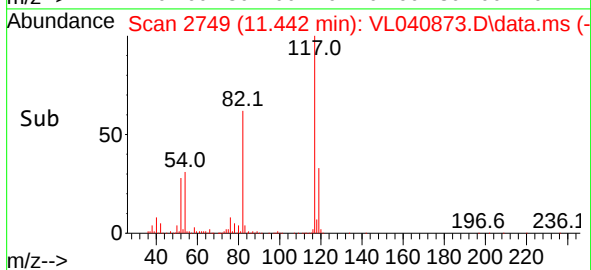
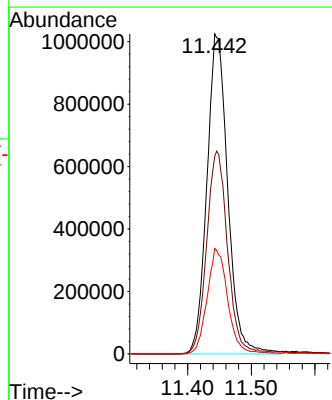
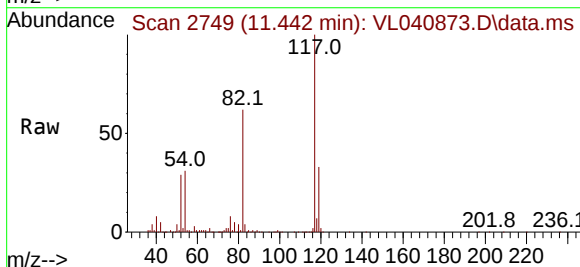
Instrument :
MSVOA_1
ClientSampleId :
NT-SS-7

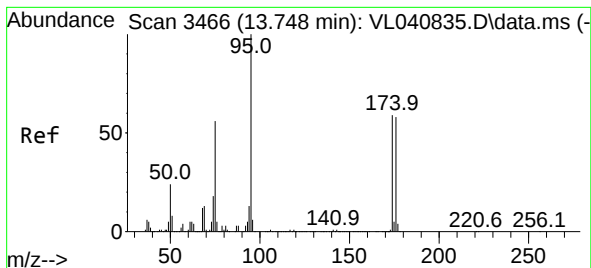
Tgt Ion: 91 Resp: 19855
Ion Ratio Lower Upper
91 100
92 0.0 49.4 74.2#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. 0.003 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Tgt Ion: 117 Resp: 2333412
Ion Ratio Lower Upper
117 100
82 64.9 50.6 75.8
119 32.5 23.3 34.9

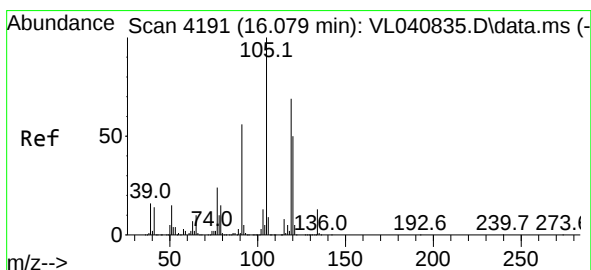
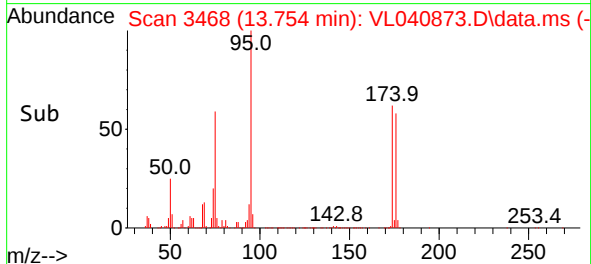
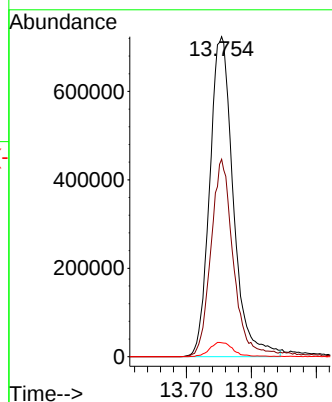
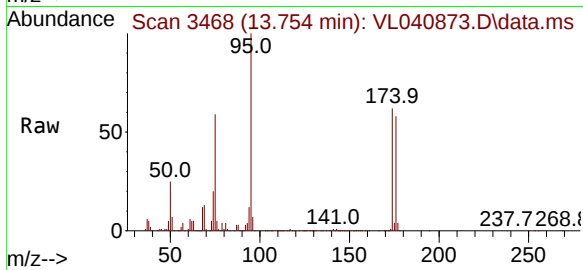




#68
1-Bromo-4-Fluorobenzene
Concen: 9.987 ppbv
RT: 13.754 min Scan# 3466
Delta R.T. 0.007 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-7

Tgt Ion: 95 Resp: 1824457
Ion Ratio Lower Upper
95 100
174 60.0 47.5 71.3
175 4.5 3.6 5.4



#74
1,2,4-Trimethylbenzene
Concen: 0.036 ppbv
RT: 16.082 min Scan# 4192
Delta R.T. 0.003 min
Lab File: VL040873.D
Acq: 15 Nov 2023 18:12

Tgt Ion: 105 Resp: 9588
Ion Ratio Lower Upper
105 100
120 37.4 40.2 60.2#
91 13.9 45.7 68.5#
77 14.2 19.2 28.8#

