

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040830.D
 Acq On : 9 Nov 2023 10:38
 Operator : SY/MD
 Sample : 05275-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-2DL

Quant Time: Nov 10 04:50:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 09 00:25:02 2023
 Response via : Initial Calibration

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

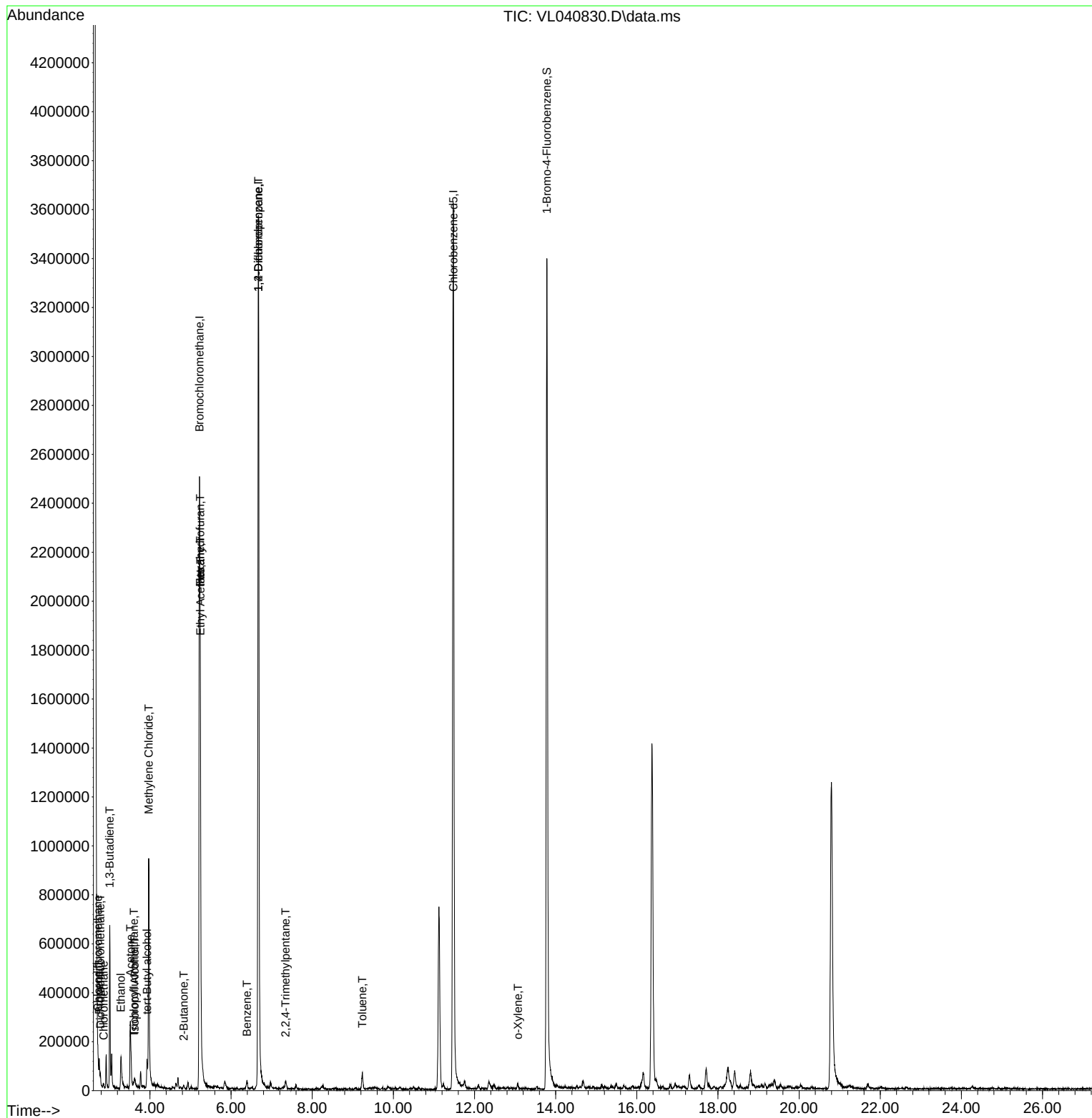
Internal Standards						
1) Bromochloromethane	5.221	49	1119898	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.674	114	2722739	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	2352060	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1766493	10.207	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.100%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.780	85	27113	0.137	ppbv	99
3) Chlorodifluoromethane	2.722	51	26766	0.163	ppbv #	91
4) Chloromethane	2.861	50	7010	0.108	ppbv #	78
9) Propene	2.748	41	12683	0.207	ppbv #	54
11) Trichlorofluoromethane	3.603	101	11421	0.075	ppbv	86
13) Ethanol	3.285	45	153146	11.098	ppbv	95
15) Acetone	3.517	43	291445	2.517	ppbv	100
16) 1,3-Butadiene	3.009	39	179353	2.953	ppbv #	16
17) tert-Butyl alcohol	3.928	59	83101	0.700	ppbv #	93
19) Isopropyl Alcohol	3.626	45	16885	0.227	ppbv #	37
20) Methylene Chloride	3.970	84	306096	6.347	ppbv	95
25) Ethyl Acetate	5.243	43	337822	1.332	ppbv #	77
26) Hexane	5.240	57	464226	4.004	ppbv #	40
34) 2-Butanone	4.835	43	20717	0.168	ppbv	96
36) Benzene	6.394	78	12327	0.059	ppbv #	92
39) 1,2-Dichloropropane	6.671	63	692755	8.467	ppbv #	26
41) Tetrahydrofuran	5.240	42	185466	2.173	ppbv #	49
44) 2,2,4-Trimethylpentane	7.343	57	13523	0.038	ppbv #	1
53) Toluene	9.237	91	44876	0.180	ppbv	98
60) o-Xylene	13.069	91	8312	0.036	ppbv #	57

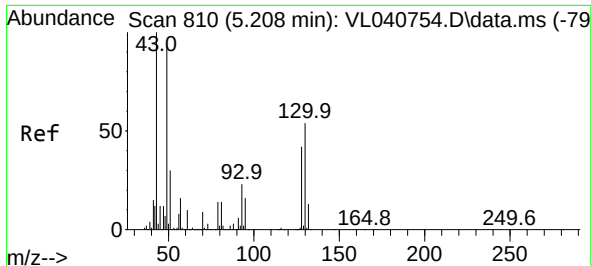
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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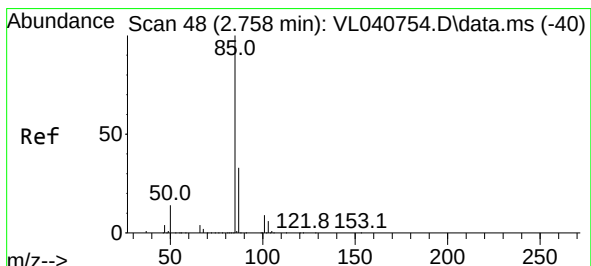
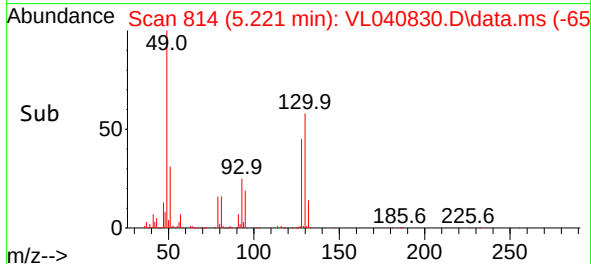
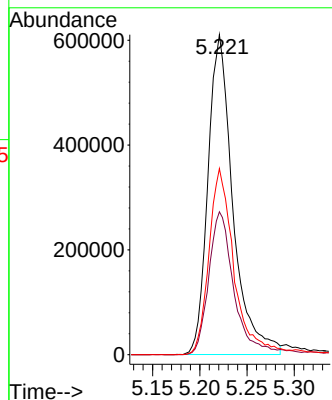
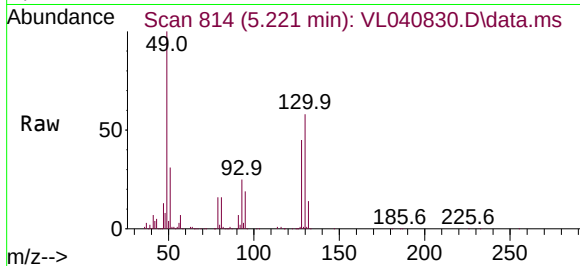




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.221 min Scan# 81
 Delta R.T. 0.013 min
 Lab File: VL040830.D
 Acq: 9 Nov 2023 10:38

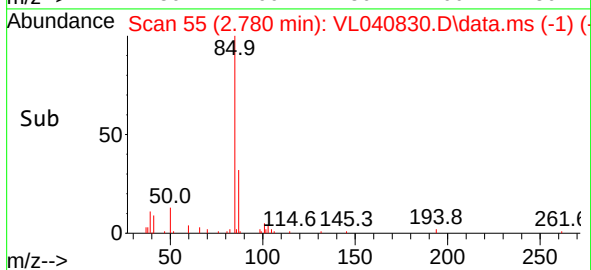
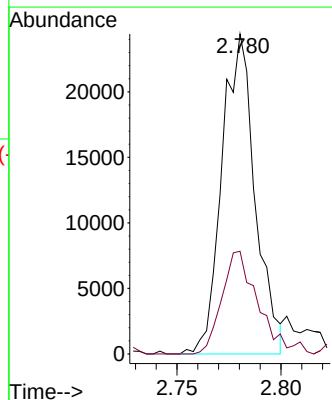
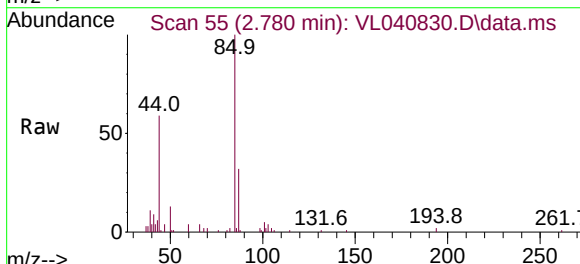
Instrument :
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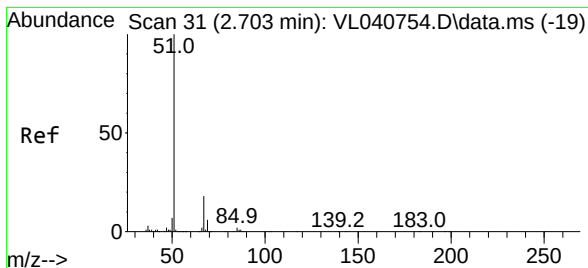
Tgt Ion: 49 Resp: 1119898
 Ion Ratio Lower Upper
 49 100
 128 47.0 23.9 71.7
 130 60.7 30.7 92.1



#2
 Dichlorodifluoromethane
 Concen: 0.137 ppbv
 RT: 2.780 min Scan# 55
 Delta R.T. 0.010 min
 Lab File: VL040830.D
 Acq: 9 Nov 2023 10:38

Tgt Ion: 85 Resp: 27113
 Ion Ratio Lower Upper
 85 100
 87 32.1 26.0 39.0

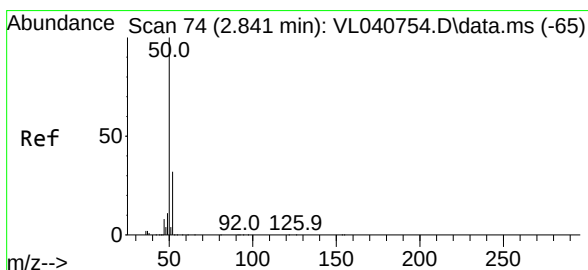
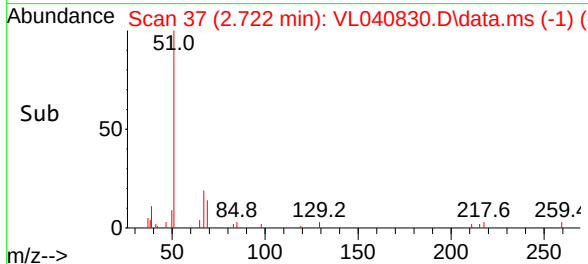
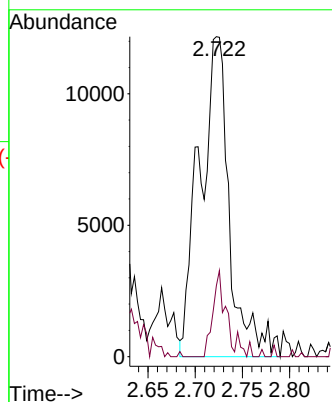
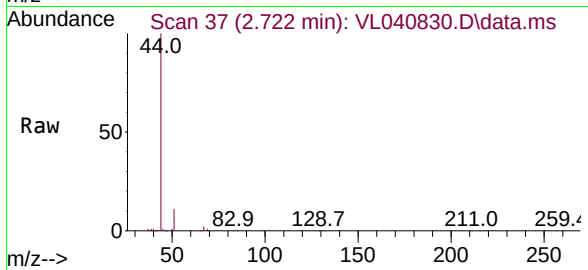




#3
Chlorodifluoromethane
Concen: 0.163 ppbv
RT: 2.722 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

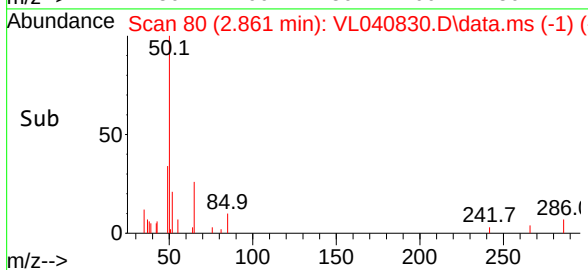
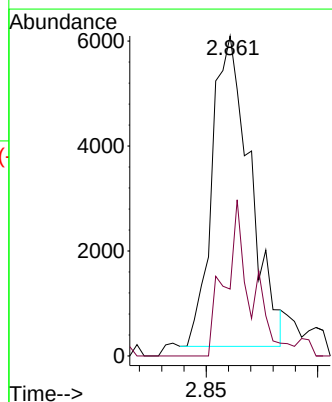
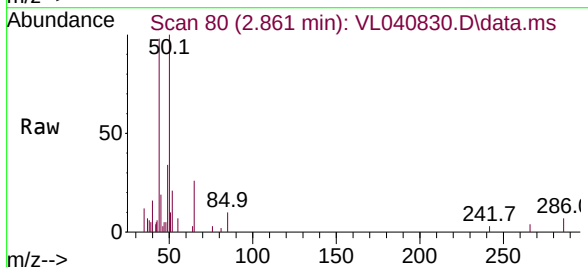
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2DL

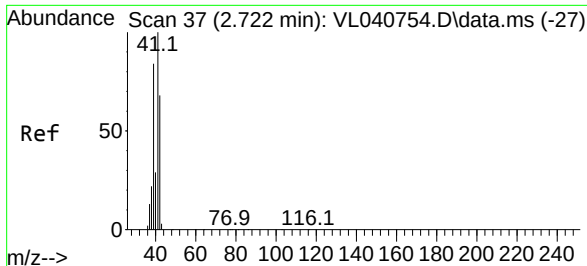
Tgt Ion: 51 Resp: 26766
Ion Ratio Lower Upper
51 100
67 13.1 13.8 20.6#



#4
Chloromethane
Concen: 0.108 ppbv
RT: 2.861 min Scan# 80
Delta R.T. 0.007 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Tgt Ion: 50 Resp: 7010
Ion Ratio Lower Upper
50 100
52 19.6 25.3 37.9#





#9

Propene

Concen: 0.207 ppbv

RT: 2.748 min Scan# 41

Delta R.T. 0.013 min

Lab File: VL040830.D

Acq: 9 Nov 2023 10:38

Instrument :

MSVOA_L

ClientSampleId :

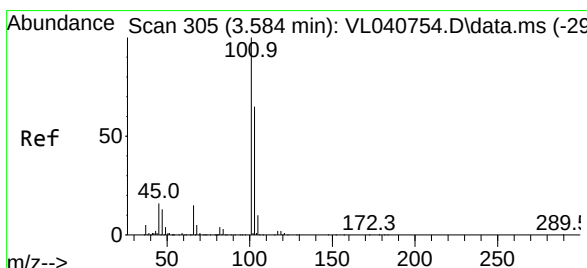
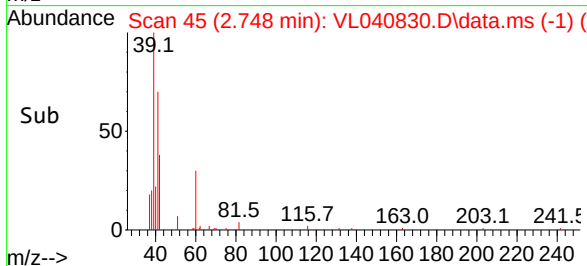
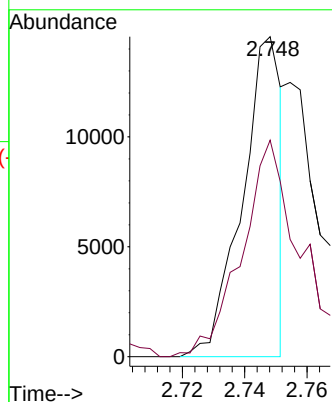
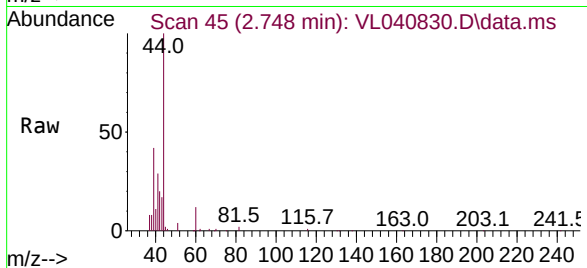
NT-IA-2DL

Tgt Ion: 41 Resp: 12683

Ion Ratio Lower Upper

41 100

42 109.2 57.1 85.7#



#11

Trichlorofluoromethane

Concen: 0.075 ppbv

RT: 3.603 min Scan# 311

Delta R.T. 0.010 min

Lab File: VL040830.D

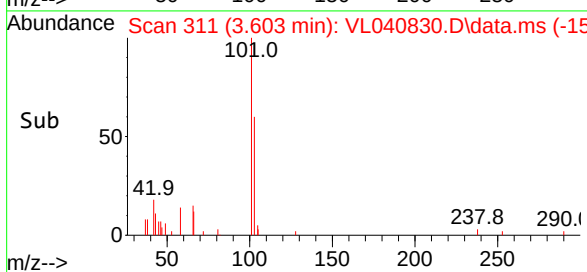
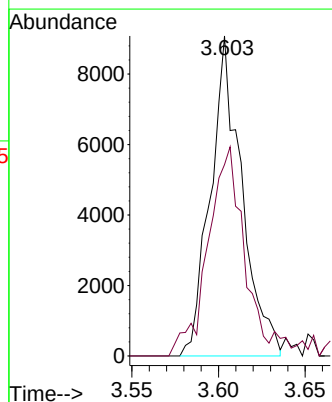
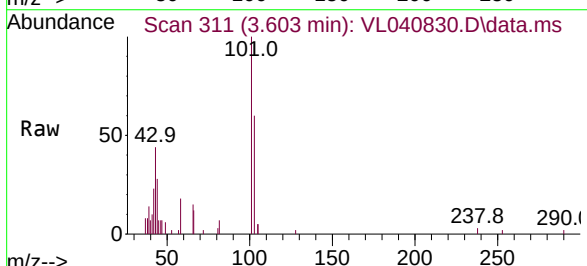
Acq: 9 Nov 2023 10:38

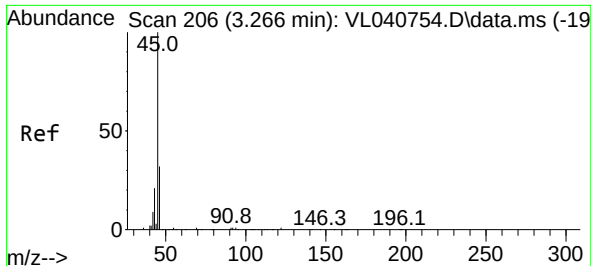
Tgt Ion: 101 Resp: 11421

Ion Ratio Lower Upper

101 100

103 54.3 52.2 78.2

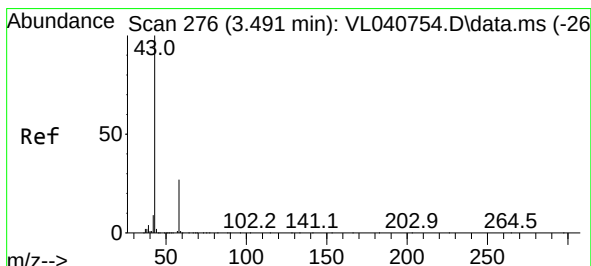
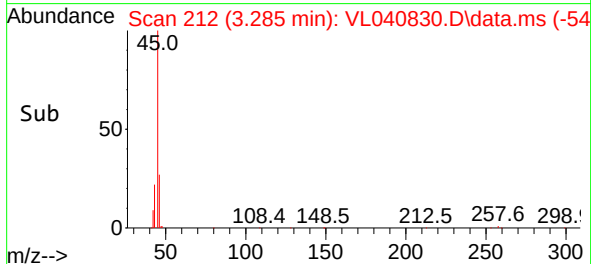
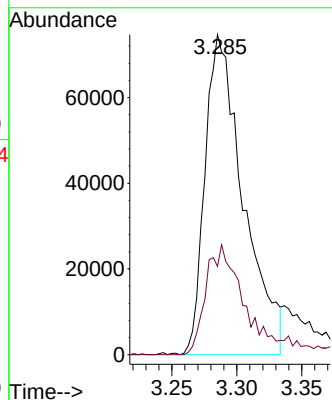
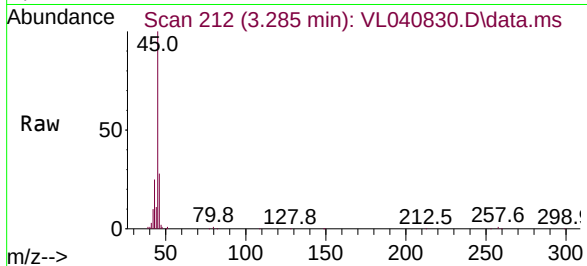




#13
 Ethanol
 Concen: 11.098 ppbv
 RT: 3.285 min Scan# 211
 Delta R.T. 0.007 min
 Lab File: VL040830.D
 Acq: 9 Nov 2023 10:38

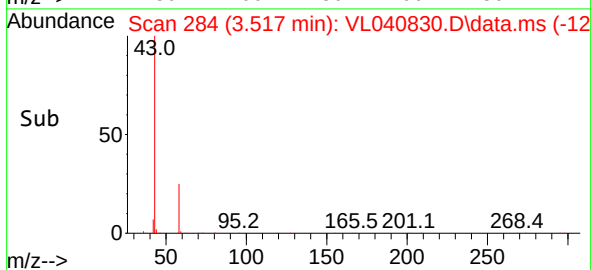
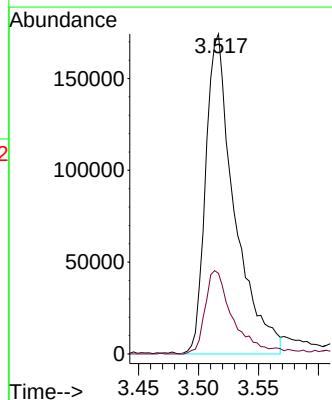
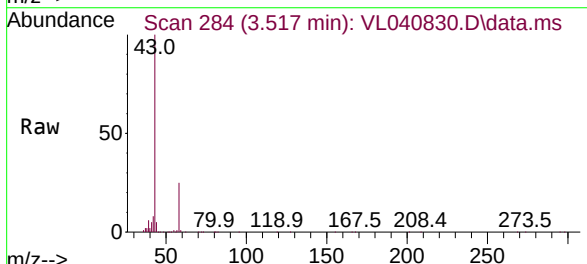
Instrument :
 MSVOA_L
 ClientSampleId :
 NT-IA-2DL

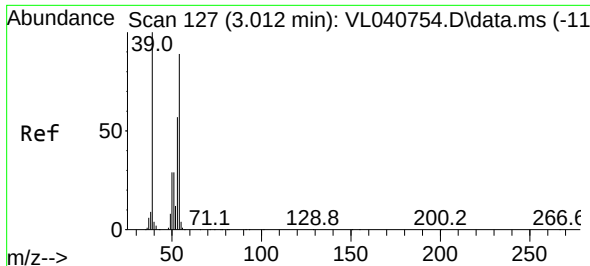
Tgt Ion: 45 Resp: 153146
 Ion Ratio Lower Upper
 45 100
 46 39.1 14.6 58.2



#15
 Acetone
 Concen: 2.517 ppbv
 RT: 3.517 min Scan# 284
 Delta R.T. 0.016 min
 Lab File: VL040830.D
 Acq: 9 Nov 2023 10:38

Tgt Ion: 43 Resp: 291445
 Ion Ratio Lower Upper
 43 100
 58 27.2 21.6 32.4

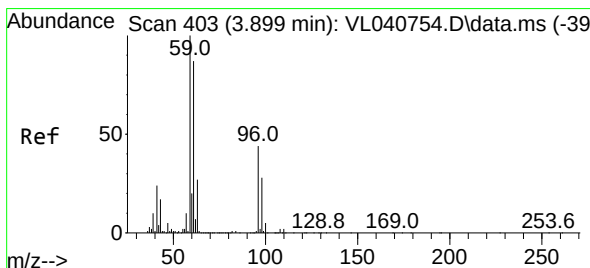
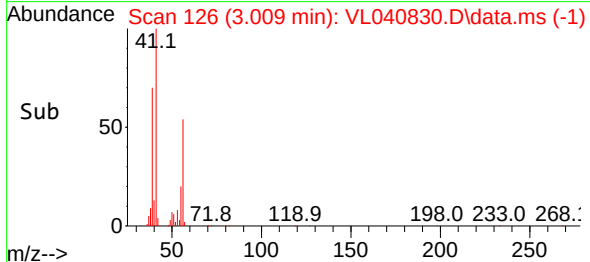
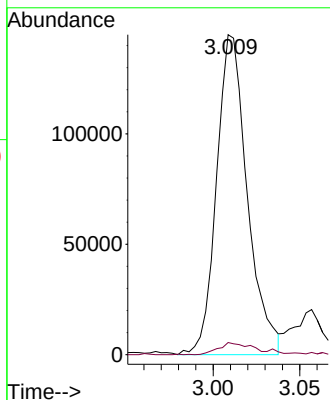
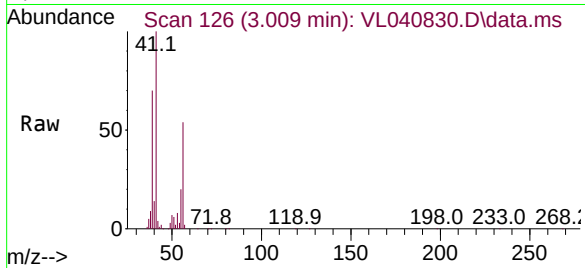




#16
1,3-Butadiene
Concen: 2.953 ppbv
RT: 3.009 min Scan# 11
Delta R.T. -0.013 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

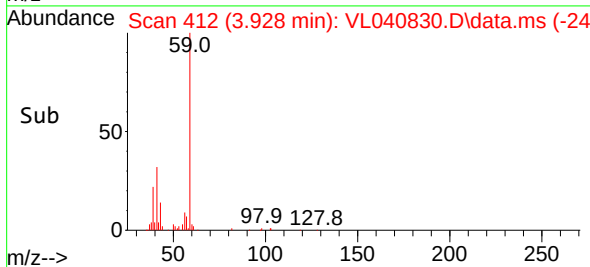
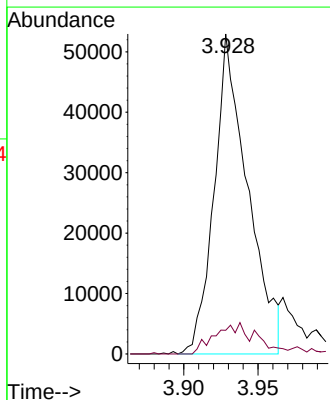
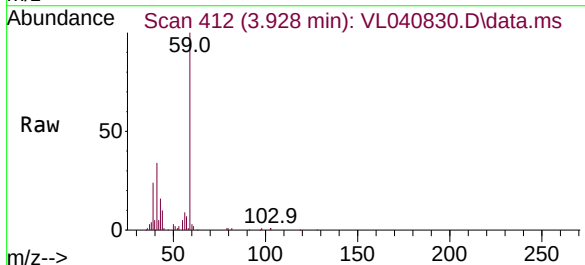
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ClientSampleId :
NT-IA-2DL

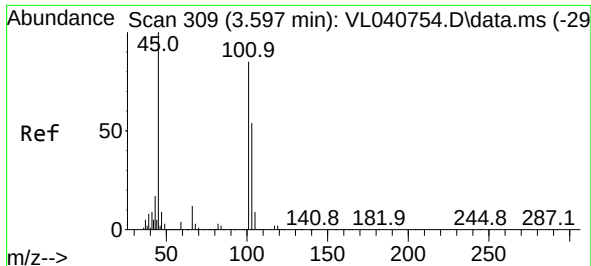
Tgt Ion: 39 Resp: 179353
Ion Ratio Lower Upper
39 100
54 5.1 63.0 94.6#



#17
tert-Butyl alcohol
Concen: 0.700 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.023 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Tgt Ion: 59 Resp: 83101
Ion Ratio Lower Upper
59 100
57 13.4 8.6 13.0#





#19

Isopropyl Alcohol

Concen: 0.227 ppbv

RT: 3.626 min Scan# 318

Delta R.T. 0.019 min

Lab File: VL040830.D

Acq: 9 Nov 2023 10:38

Instrument :

MSVOA_L

ClientSampleId :

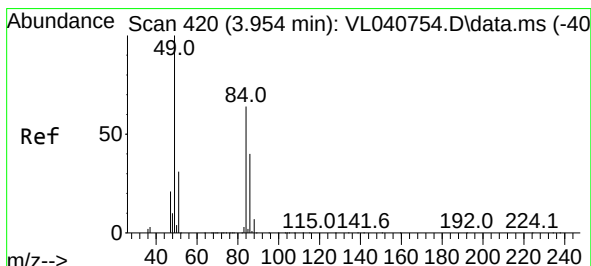
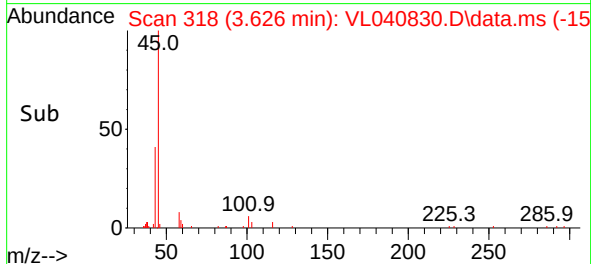
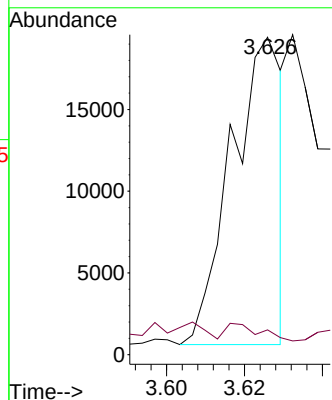
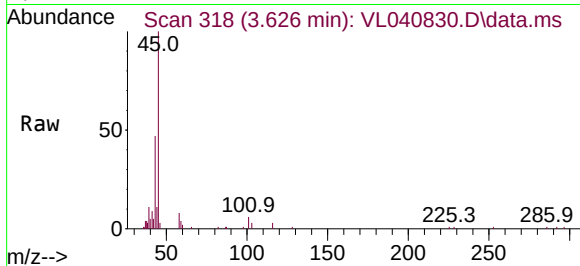
NT-IA-2DL

Tgt Ion: 45 Resp: 16885

Ion Ratio Lower Upper

45 100

58 0.0 30.3 45.5#



#20

Methylene Chloride

Concen: 6.347 ppbv

RT: 3.970 min Scan# 425

Delta R.T. 0.010 min

Lab File: VL040830.D

Acq: 9 Nov 2023 10:38

Tgt Ion: 84 Resp: 306096

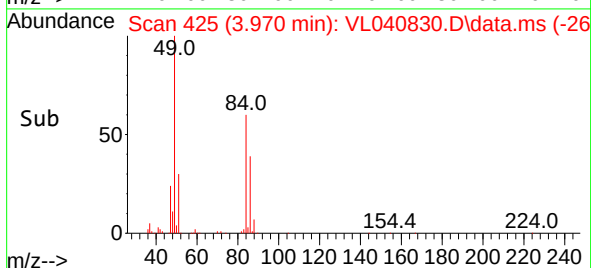
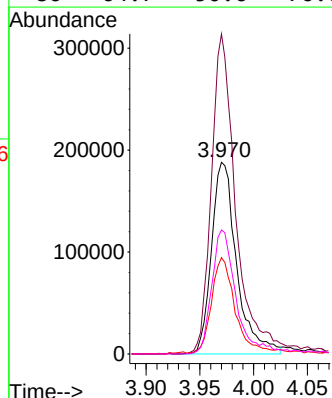
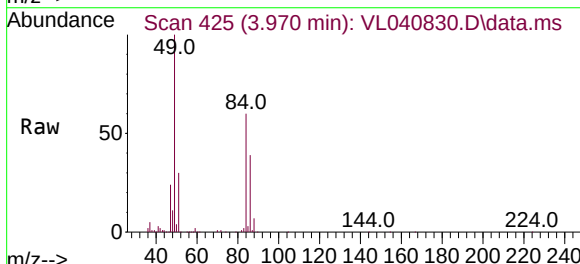
Ion Ratio Lower Upper

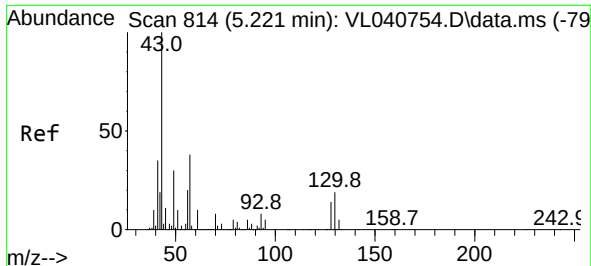
84 100

49 167.0 125.6 188.4

51 49.5 38.9 58.3

86 64.7 50.6 76.0

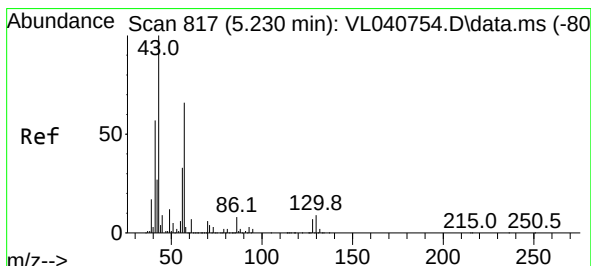
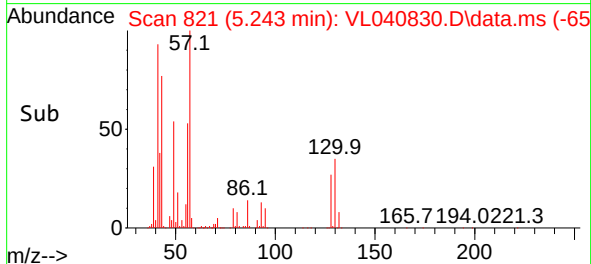
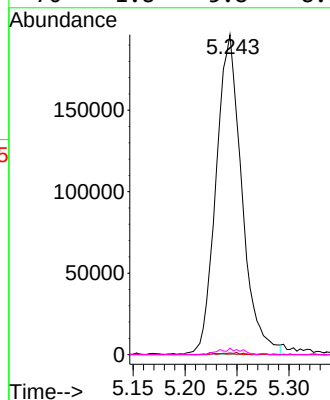
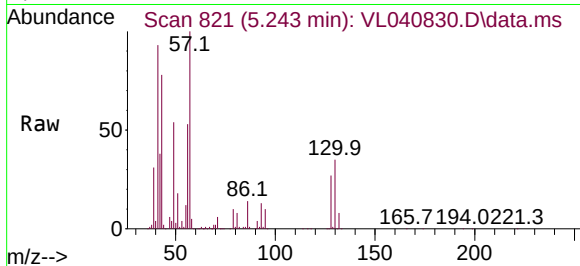




#25
Ethyl Acetate
Concen: 1.332 ppbv
RT: 5.243 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

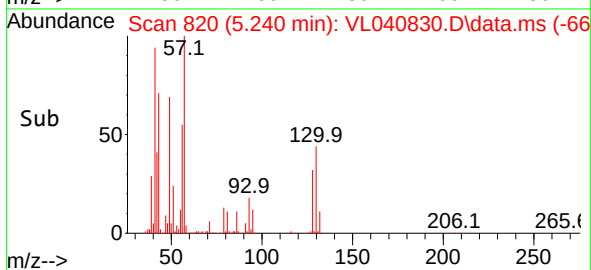
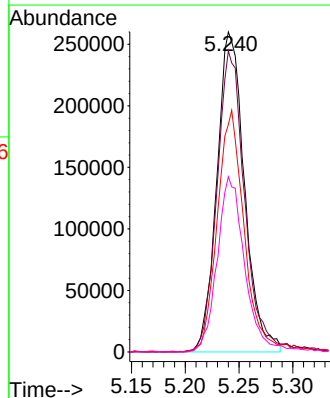
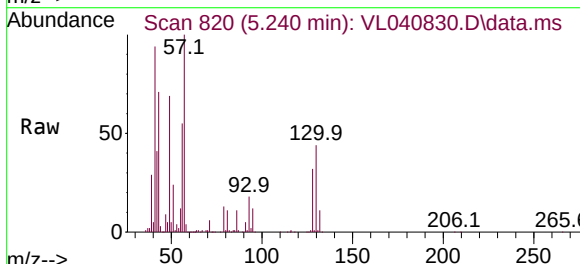
Instrument :
MSVOA_1
ClientSampleId :
NT-IA-2DL

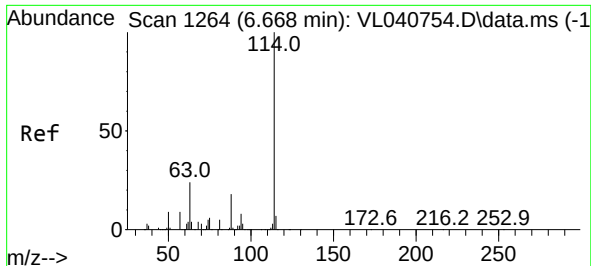
Tgt Ion: 43 Resp: 337822
Ion Ratio Lower Upper
43 100
45 0.6 8.2 12.4#
61 0.3 8.2 12.2#
70 1.8 5.8 8.6#



#26
Hexane
Concen: 4.004 ppbv
RT: 5.240 min Scan# 820
Delta R.T. 0.013 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Tgt Ion: 57 Resp: 464226
Ion Ratio Lower Upper
57 100
41 96.4 71.4 107.2
43 74.6 182.3 273.5#
56 55.1 42.0 63.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 11

Delta R.T. 0.010 min

Lab File: VL040830.D

Acq: 9 Nov 2023 10:38

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-2DL

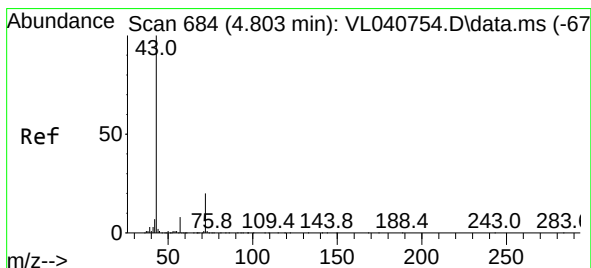
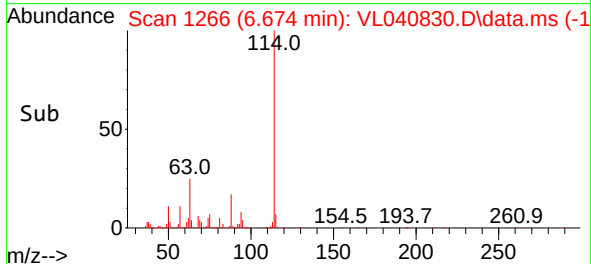
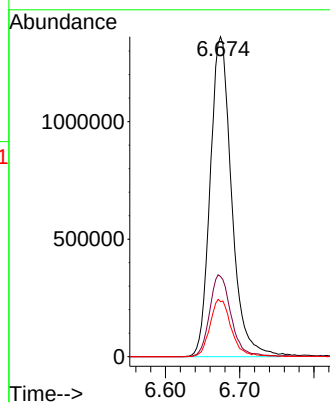
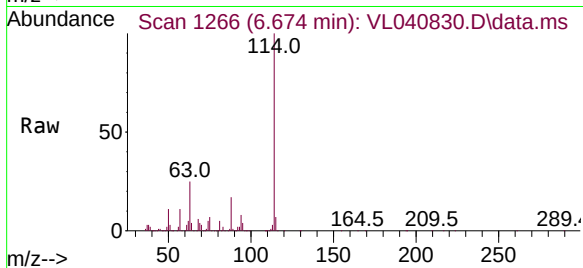
Tgt Ion:114 Resp: 2722739

Ion Ratio Lower Upper

114 100

63 25.9 19.8 29.6

88 17.9 14.2 21.2



#34

2-Butanone

Concen: 0.168 ppbv

RT: 4.835 min Scan# 694

Delta R.T. 0.029 min

Lab File: VL040830.D

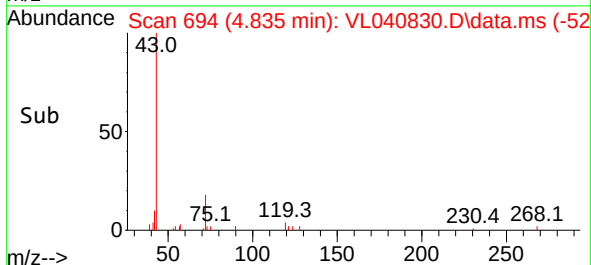
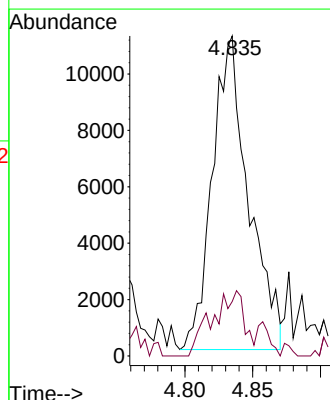
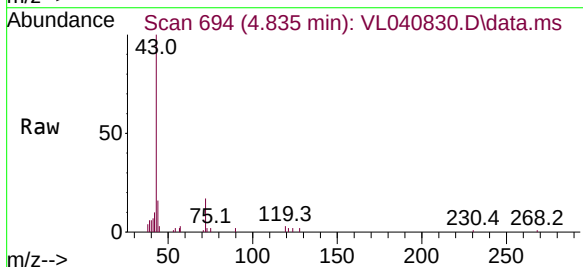
Acq: 9 Nov 2023 10:38

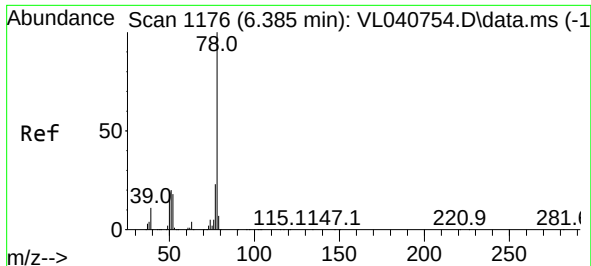
Tgt Ion: 43 Resp: 20717

Ion Ratio Lower Upper

43 100

72 23.1 16.8 25.2





#36

Benzene

Concen: 0.059 ppbv

RT: 6.394 min Scan# 1176

Delta R.T. 0.013 min

Lab File: VL040830.D

Acq: 9 Nov 2023 10:38

Instrument :

MSVOA_L

ClientSampleId :

NT-IA-2DL

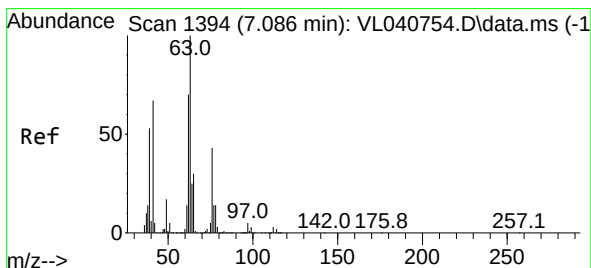
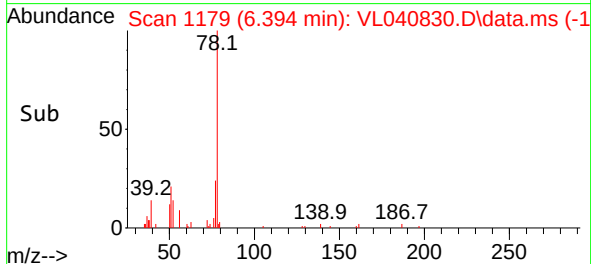
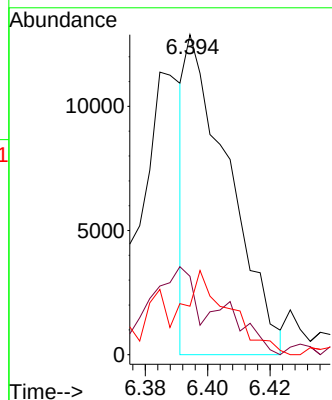
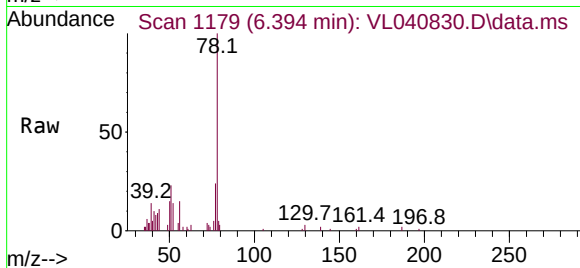
Tgt Ion: 78 Resp: 12327

Ion Ratio Lower Upper

78 100

77 26.5 18.4 27.6

50 14.9 15.0 22.4#



#39

1,2-Dichloropropane

Concen: 8.467 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. -0.411 min

Lab File: VL040830.D

Acq: 9 Nov 2023 10:38

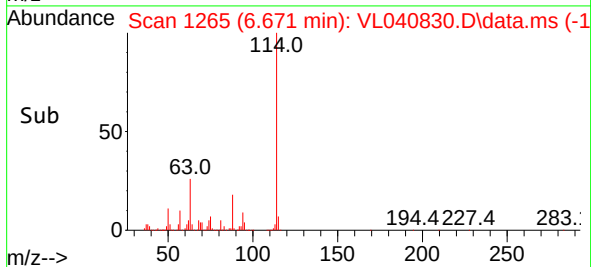
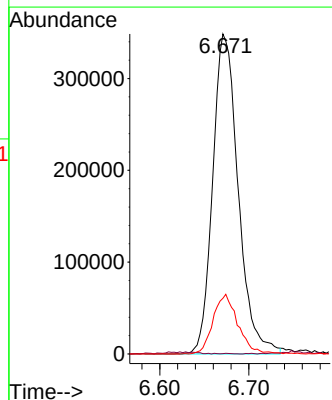
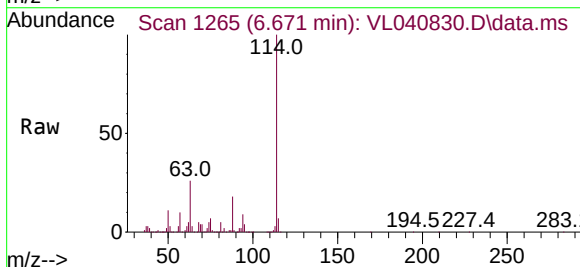
Tgt Ion: 63 Resp: 692755

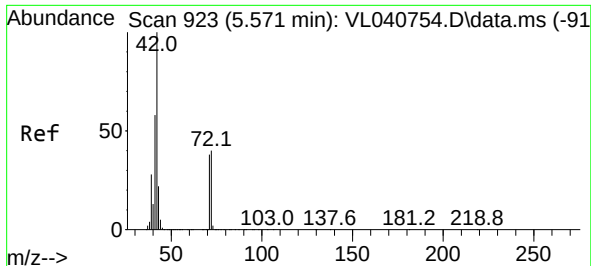
Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 17.4 55.7 83.5#

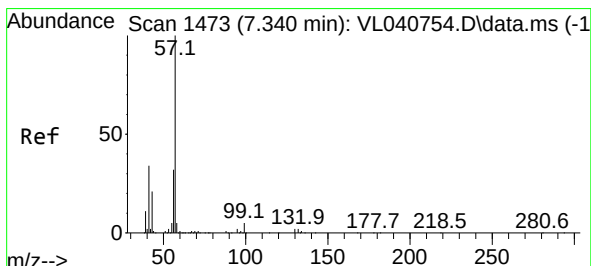
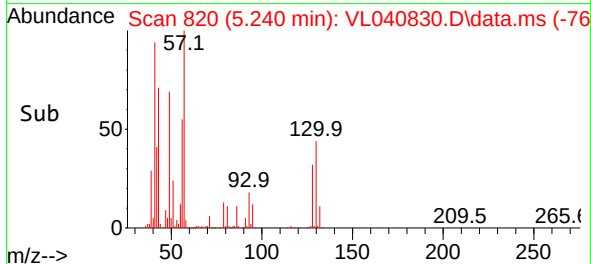
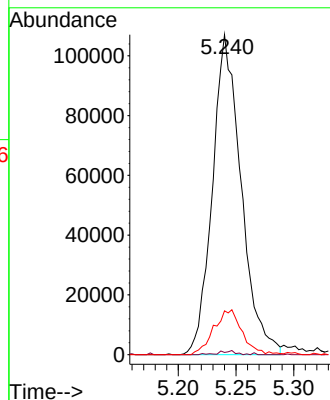
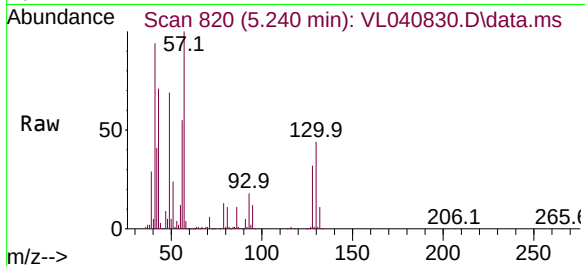




#41
Tetrahydrofuran
Concen: 2.173 ppbv
RT: 5.240 min Scan# 81
Delta R.T. -0.331 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

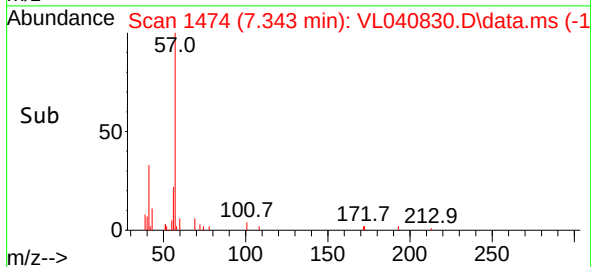
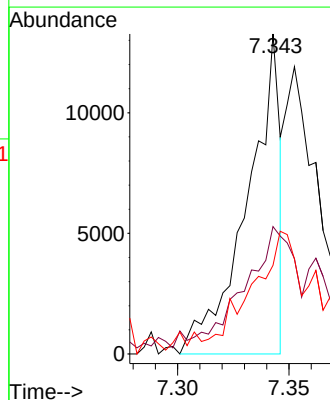
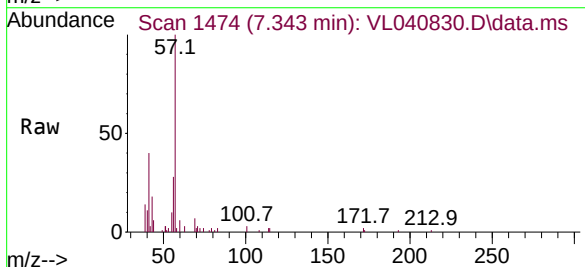
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2DL

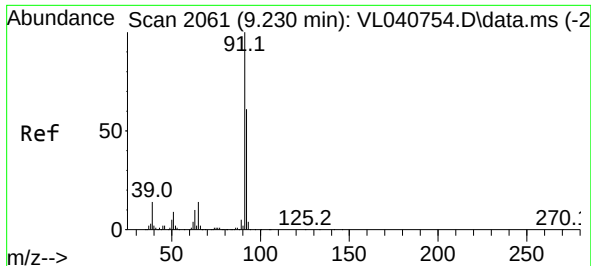
Tgt Ion: 42 Resp: 185466
Ion Ratio Lower Upper
42 100
72 0.8 31.1 46.7#
71 14.3 29.7 44.5#



#44
2,2,4-Trimethylpentane
Concen: 0.038 ppbv
RT: 7.343 min Scan# 1474
Delta R.T. 0.010 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Tgt Ion: 57 Resp: 13523
Ion Ratio Lower Upper
57 100
41 98.3 27.4 41.0#
56 81.9 25.0 37.6#

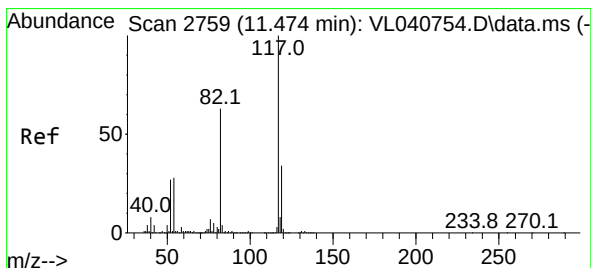
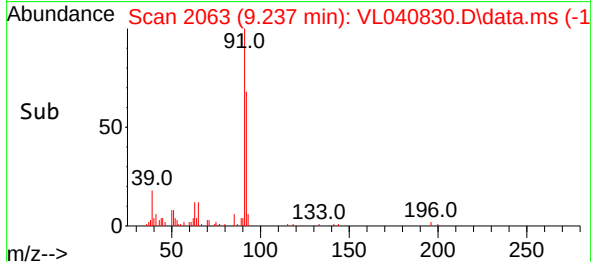
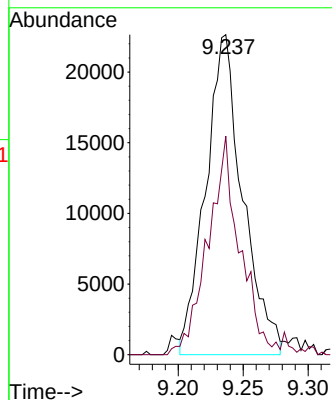
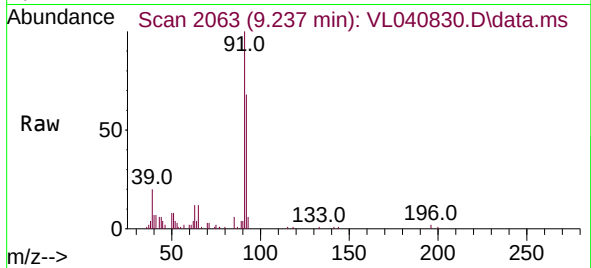




#53
Toluene
Concen: 0.180 ppbv
RT: 9.237 min Scan# 2061
Delta R.T. 0.016 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

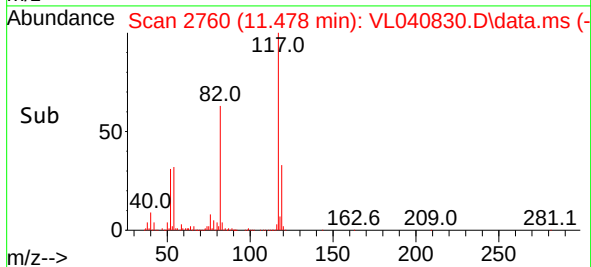
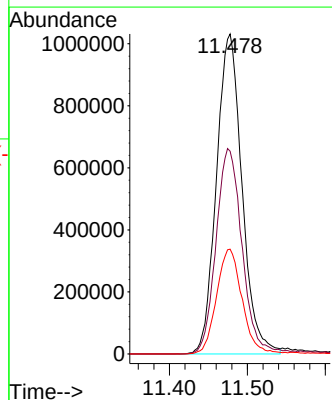
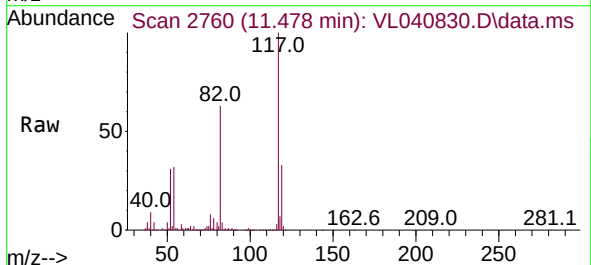
Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2DL

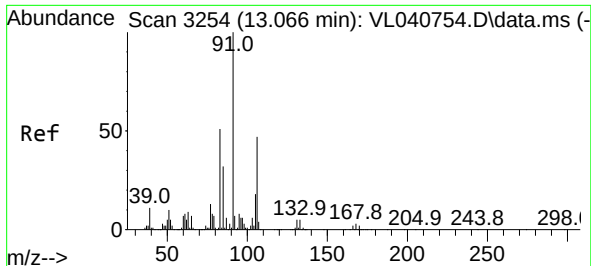
Tgt Ion: 91 Resp: 44876
Ion Ratio Lower Upper
91 100
92 60.8 50.2 75.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.478 min Scan# 2760
Delta R.T. 0.016 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Tgt Ion: 117 Resp: 2352060
Ion Ratio Lower Upper
117 100
82 66.4 46.6 70.0
119 33.1 26.0 39.0

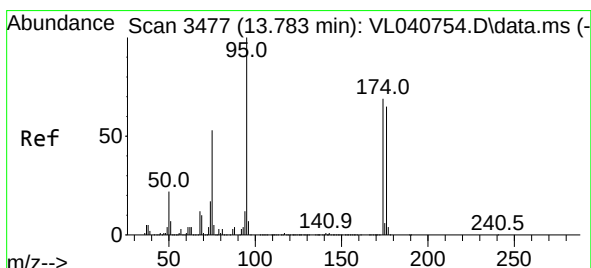
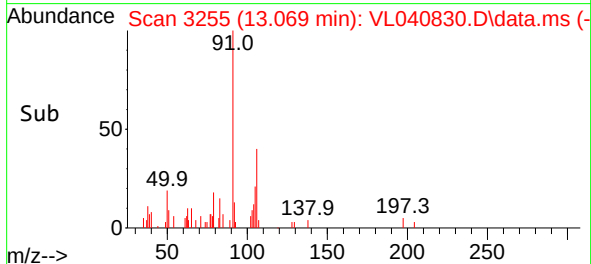
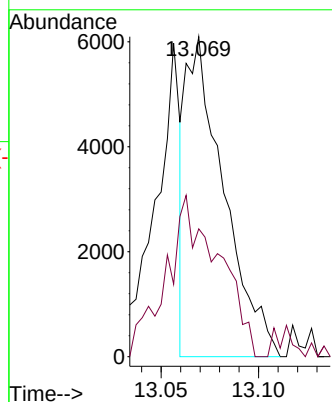
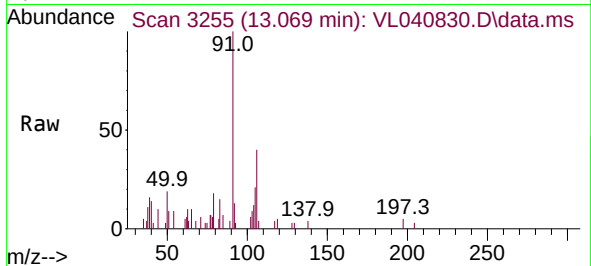




#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.069 min Scan# 31
Delta R.T. 0.016 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Instrument :
MSVOA_L
ClientSampleId :
NT-IA-2DL

Tgt Ion: 91 Resp: 8312
Ion Ratio Lower Upper
91 100
106 75.6 23.5 70.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.207 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. 0.013 min
Lab File: VL040830.D
Acq: 9 Nov 2023 10:38

Tgt Ion: 95 Resp: 1766493
Ion Ratio Lower Upper
95 100
174 59.7 54.7 82.1
175 4.5 4.2 6.4

