

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110823\
 Data File : VL040819.D
 Acq On : 8 Nov 2023 20:32
 Operator : SY/MD
 Sample : 05276-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-OA-1

Quant Time: Nov 09 00:33:11 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)

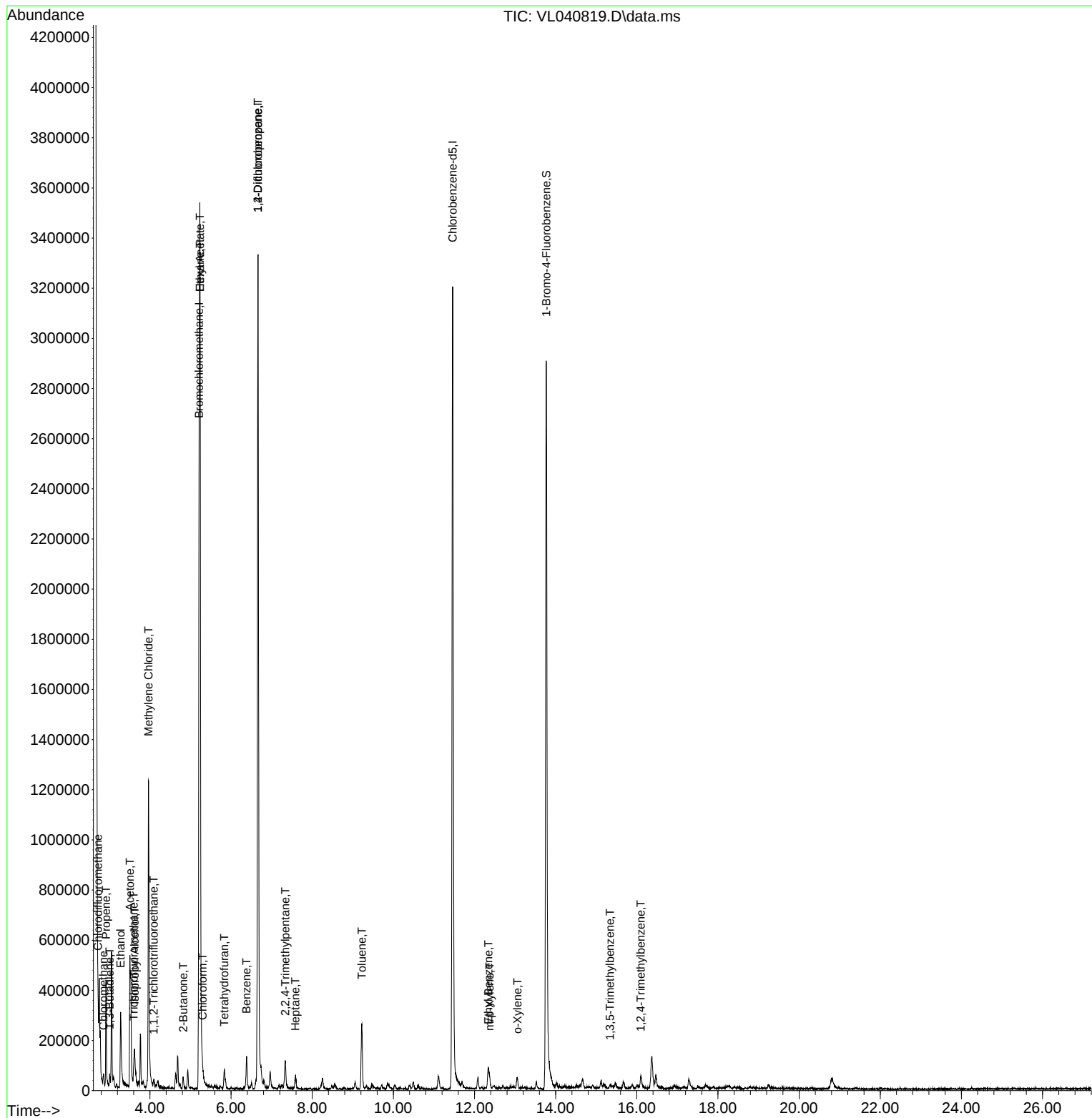
Internal Standards						
1) Bromochloromethane	5.211	49	1012848	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.661	114	2532374	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2123380	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1524447	9.757	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.600%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.722	51	96226	0.646	ppbv #	82
4) Chloromethane	2.857	50	29665	0.505	ppbv	97
9) Propene	2.915	41	96142	1.739	ppbv	96
10) Heptane	7.584	43	18072	0.130	ppbv #	71
11) Trichlorofluoromethane	3.600	101	34772	0.253	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.095	101	4517	0.046	ppbv #	13
13) Ethanol	3.279	45	323459	25.917	ppbv	99
15) Acetone	3.507	43	613136	5.856	ppbv	93
16) 1,3-Butadiene	3.009	39	13487	0.246	ppbv #	61
19) Isopropyl Alcohol	3.623	45	167413	2.484	ppbv #	42
20) Methylene Chloride	3.963	84	388744	8.913	ppbv	96
25) Ethyl Acetate	5.234	43	867187	3.780	ppbv #	77
26) Hexane	5.234	57	1205720	11.499	ppbv #	41
29) Chloroform	5.298	83	5901	0.039	ppbv	86
34) 2-Butanone	4.819	43	54963	0.479	ppbv	92
36) Benzene	6.381	78	96499	0.495	ppbv	97
39) 1,2-Dichloropropane	6.661	63	634610	8.339	ppbv #	27
41) Tetrahydrofuran	5.832	42	6574	0.083	ppbv #	40
44) 2,2,4-Trimethylpentane	7.336	57	54023	0.164	ppbv #	21
53) Toluene	9.224	91	184651	0.797	ppbv	98
58) Ethyl Benzene	12.343	91	55352	0.207	ppbv	98
59) m/p-Xylene	12.371	91	18476	0.084	ppbv #	30
60) o-Xylene	13.056	91	20646	0.098	ppbv #	56
73) 1,3,5-Trimethylbenzene	15.342	105	7747	0.036	ppbv	91
74) 1,2,4-Trimethylbenzene	16.098	105	29779	0.126	ppbv #	62

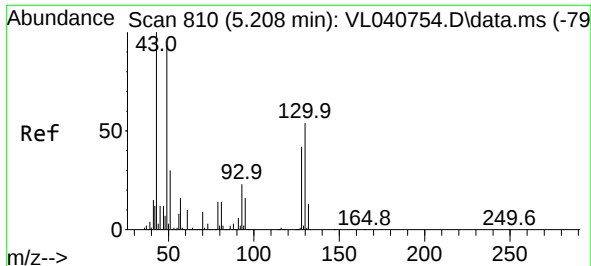
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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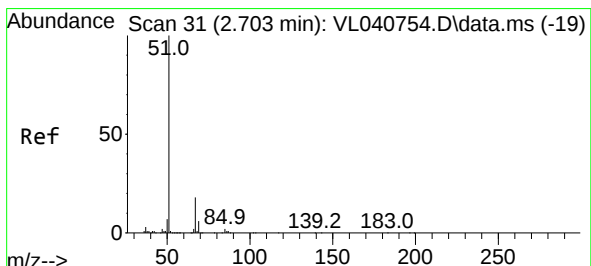
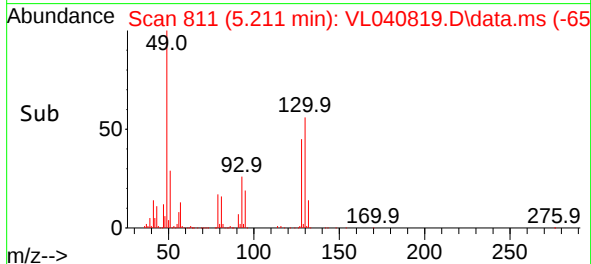
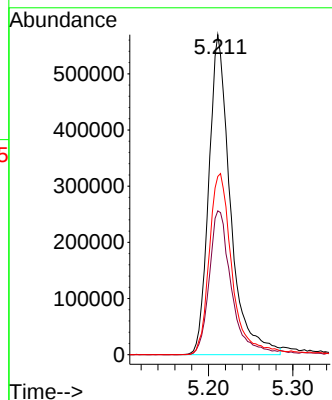
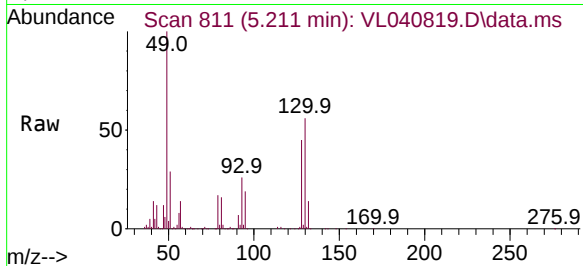




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.211 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL040819.D
 Acq: 8 Nov 2023 20:32

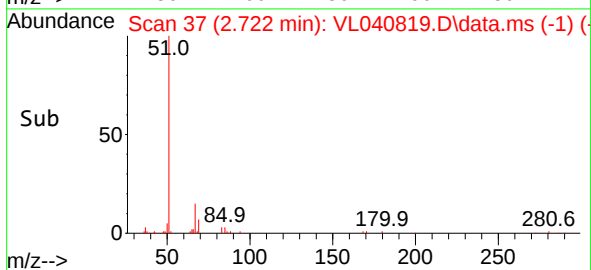
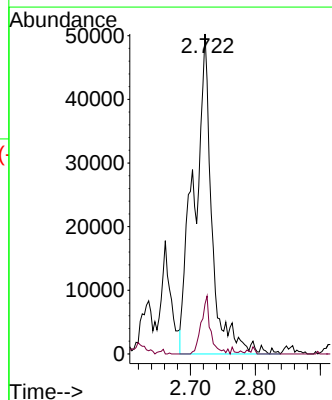
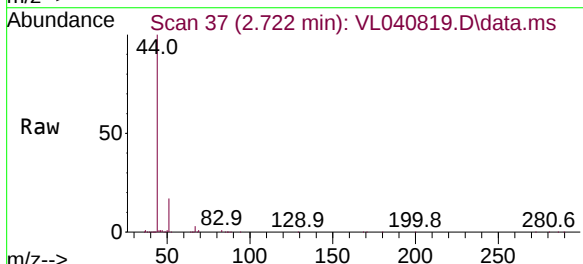
Instrument :
 MSVOA_L
 ClientSampleId :
 SH-OA-1

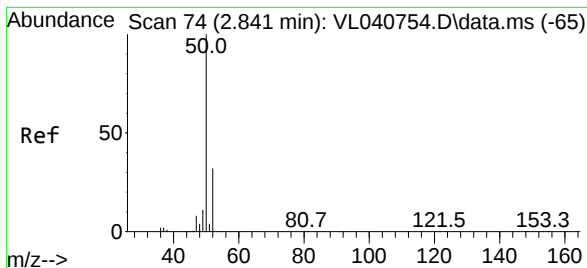
Tgt Ion: 49 Resp: 1012848
 Ion Ratio Lower Upper
 49 100
 128 47.3 23.9 71.7
 130 61.8 30.7 92.1



#3
 Chlorodifluoromethane
 Concen: 0.646 ppbv
 RT: 2.722 min Scan# 37
 Delta R.T. 0.006 min
 Lab File: VL040819.D
 Acq: 8 Nov 2023 20:32

Tgt Ion: 51 Resp: 96226
 Ion Ratio Lower Upper
 51 100
 67 9.5 13.8 20.6#





#4
Chloromethane
Concen: 0.505 ppbv
RT: 2.857 min Scan# 74
Delta R.T. 0.003 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

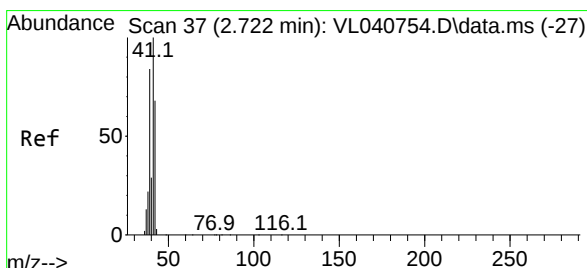
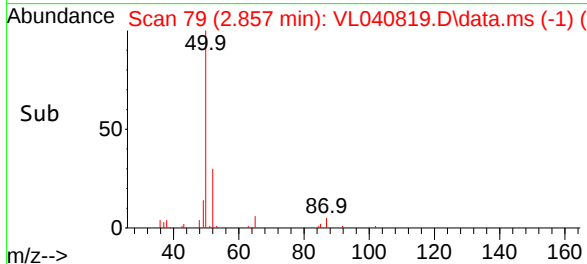
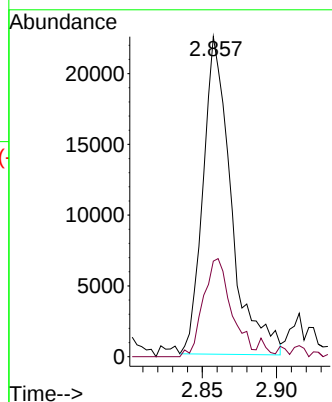
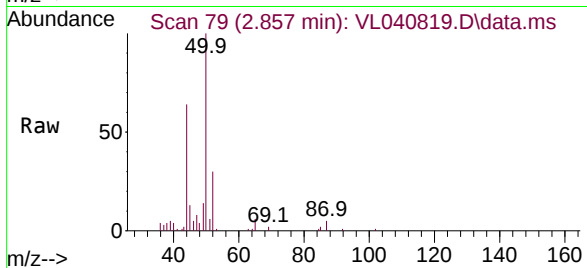
Instrument :

MSVOA_L

ClientSampleId :

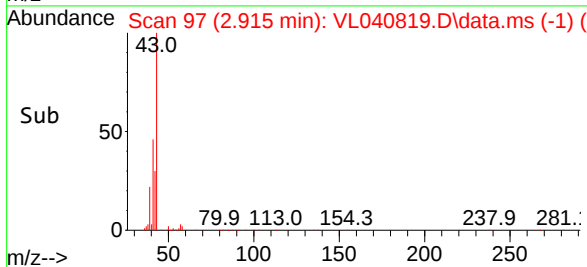
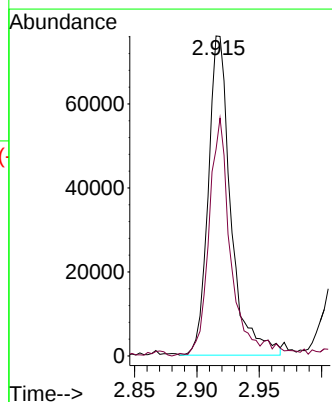
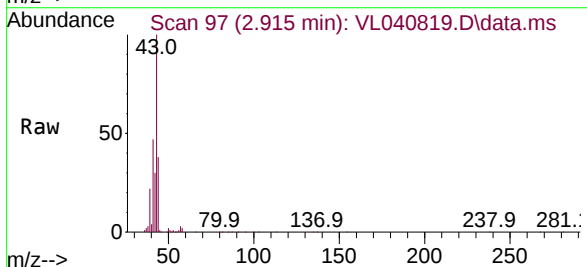
SH-OA-1

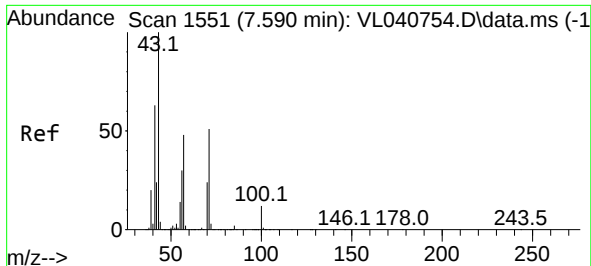
Tgt Ion: 50 Resp: 29665
Ion Ratio Lower Upper
50 100
52 30.1 25.3 37.9



#9
Propene
Concen: 1.739 ppbv
RT: 2.915 min Scan# 97
Delta R.T. 0.180 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

Tgt Ion: 41 Resp: 96142
Ion Ratio Lower Upper
41 100
42 74.7 57.1 85.7

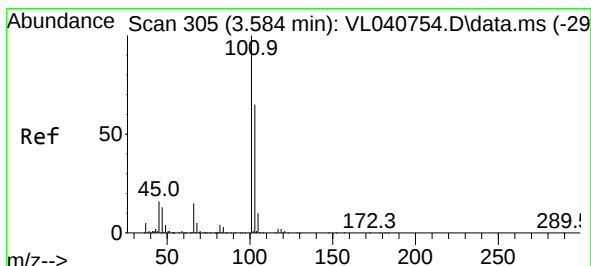
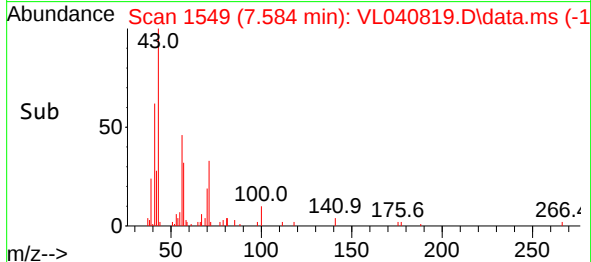
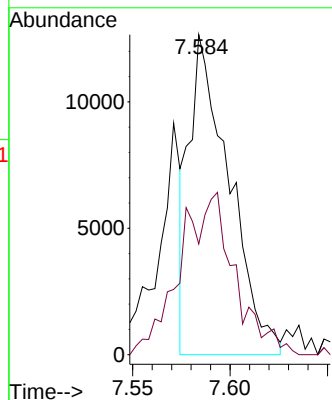
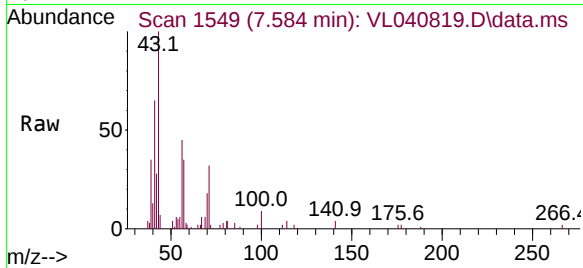




#10
Heptane
Concen: 0.130 ppbv
RT: 7.584 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

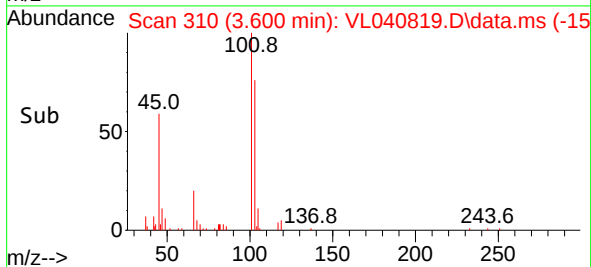
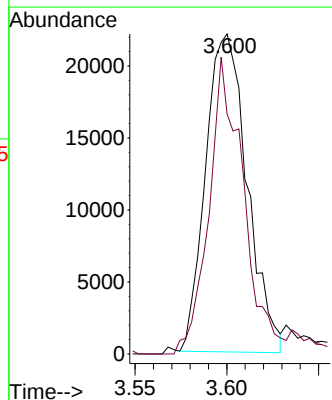
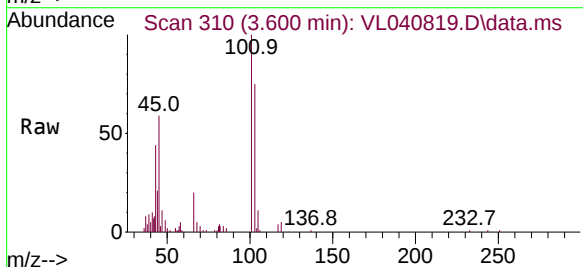
Instrument :
MSVOA_1
ClientSampleId :
SH-OA-1

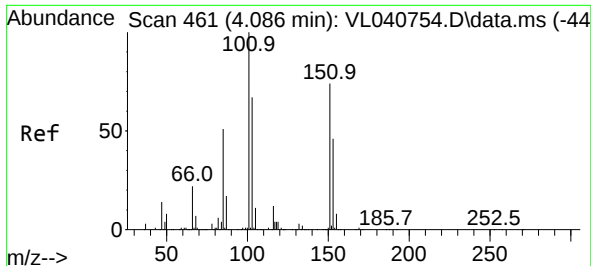
Tgt Ion: 43 Resp: 18072
Ion Ratio Lower Upper
43 100
57 69.8 40.0 60.0#



#11
Trichlorofluoromethane
Concen: 0.253 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.006 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

Tgt Ion:101 Resp: 34772
Ion Ratio Lower Upper
101 100
103 71.4 52.2 78.2

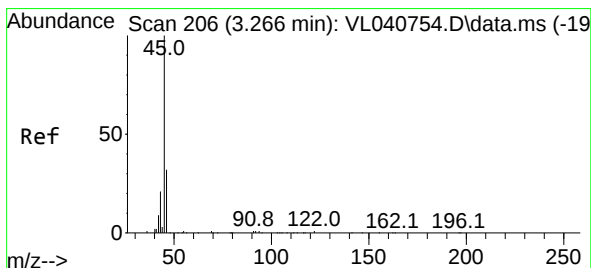
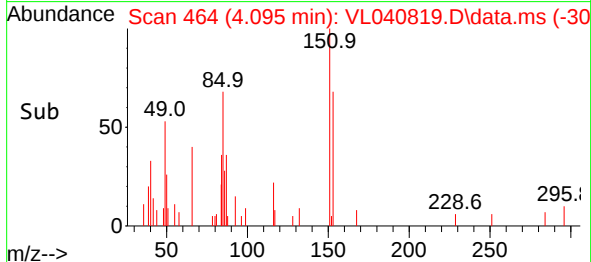
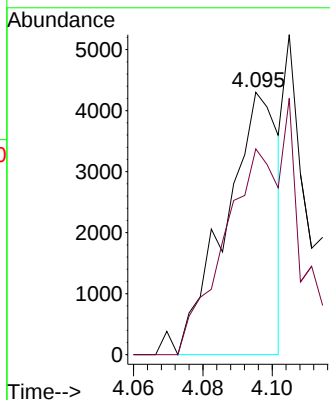
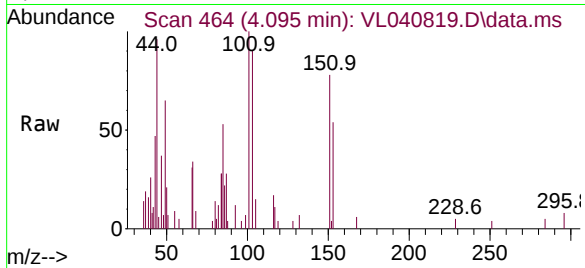




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.046 ppbv
RT: 4.095 min Scan# 4
Delta R.T. 0.003 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

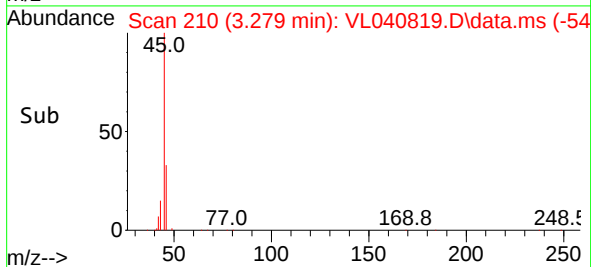
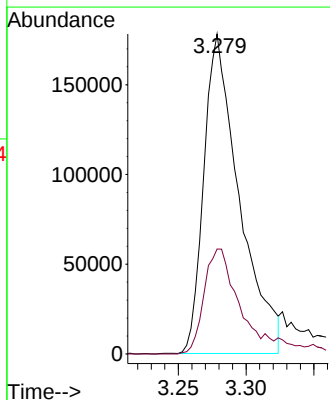
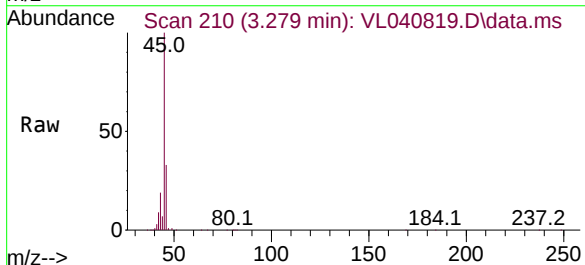
Instrument :
MSVOA_1
ClientSampleId :
SH-OA-1

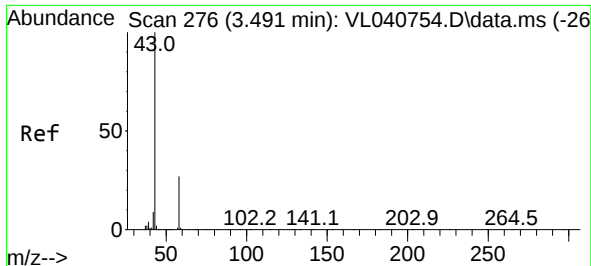
Tgt Ion:101 Resp: 4517
Ion Ratio Lower Upper
101 100
151 0.0 58.1 87.1#



#13
Ethanol
Concen: 25.917 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.000 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

Tgt Ion: 45 Resp: 323459
Ion Ratio Lower Upper
45 100
46 37.1 14.6 58.2





#15

Acetone

Concen: 5.856 ppbv

RT: 3.507 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Instrument :

MSVOA_L

ClientSampleId :

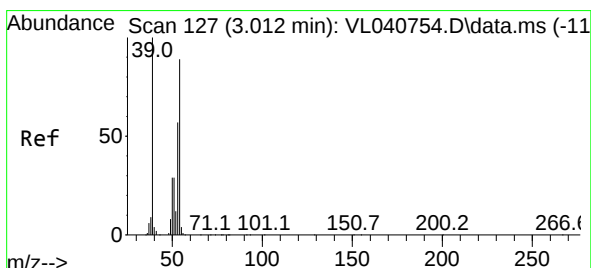
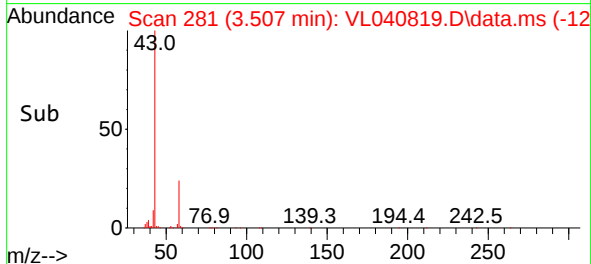
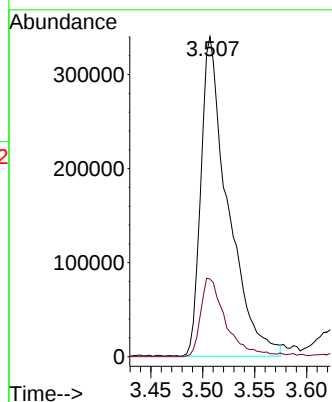
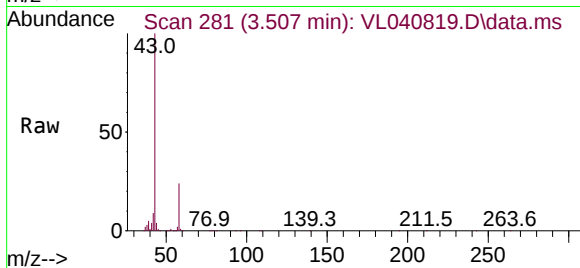
SH-OA-1

Tgt Ion: 43 Resp: 613136

Ion Ratio Lower Upper

43 100

58 23.6 21.6 32.4



#16

1,3-Butadiene

Concen: 0.246 ppbv

RT: 3.009 min Scan# 126

Delta R.T. -0.013 min

Lab File: VL040819.D

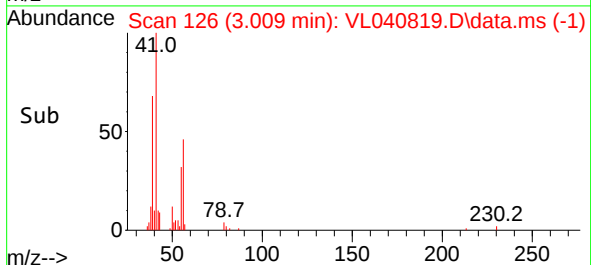
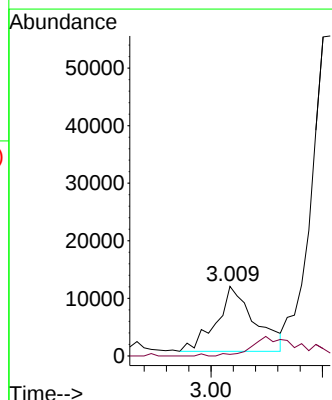
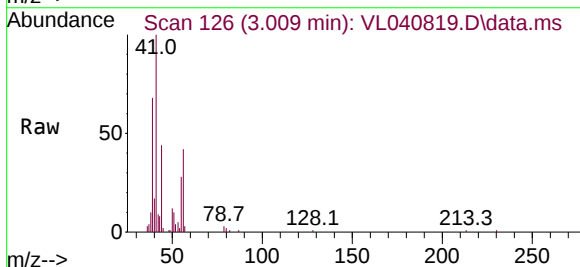
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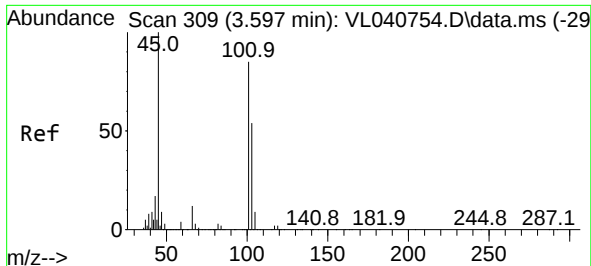
Tgt Ion: 39 Resp: 13487

Ion Ratio Lower Upper

39 100

54 44.3 63.0 94.6#





#19

Isopropyl Alcohol

Concen: 2.484 ppbv

RT: 3.623 min Scan# 317

Delta R.T. 0.016 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Instrument :

MSVOA_1

ClientSampleId :

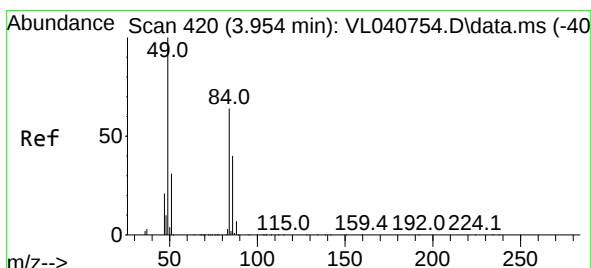
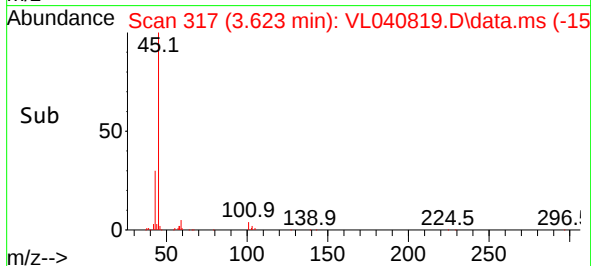
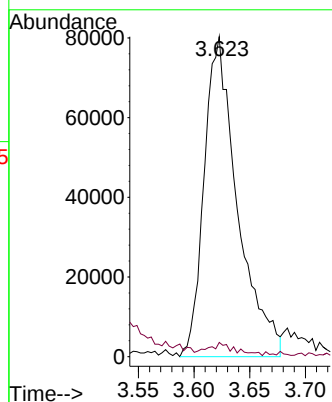
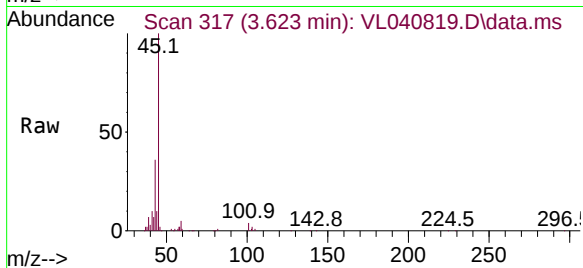
SH-OA-1

Tgt Ion: 45 Resp: 167413

Ion Ratio Lower Upper

45 100

58 3.0 30.3 45.5#



#20

Methylene Chloride

Concen: 8.913 ppbv

RT: 3.963 min Scan# 423

Delta R.T. 0.003 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Tgt Ion: 84 Resp: 388744

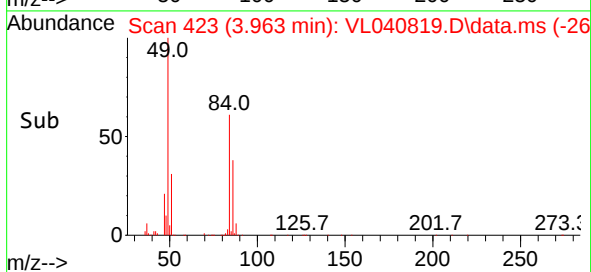
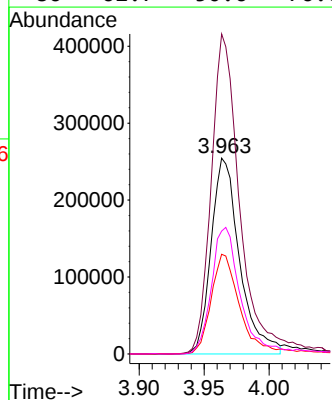
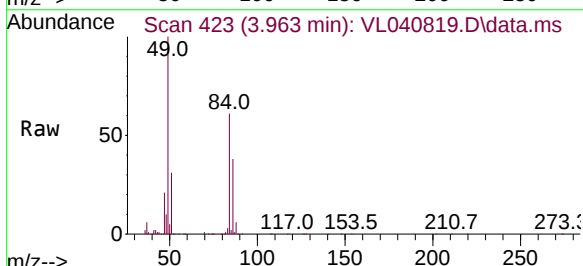
Ion Ratio Lower Upper

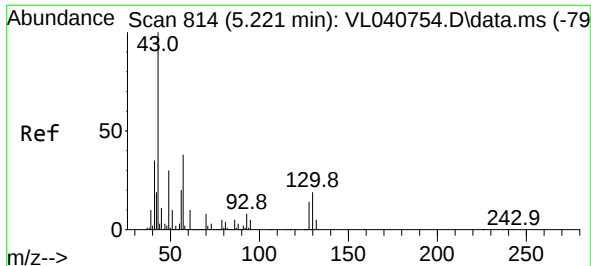
84 100

49 163.3 125.6 188.4

51 50.8 38.9 58.3

86 62.7 50.6 76.0





#25

Ethyl Acetate

Concen: 3.780 ppbv

RT: 5.234 min Scan# 814

Delta R.T. 0.013 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Instrument :

MSVOA_1

ClientSampleId :

SH-OA-1

Tgt Ion: 43 Resp: 867187

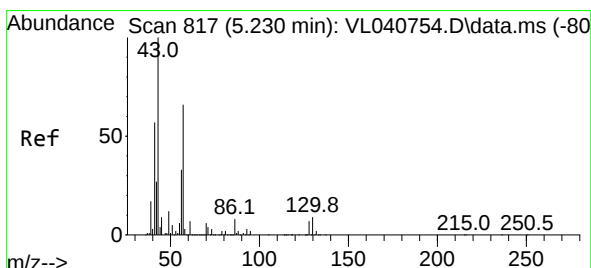
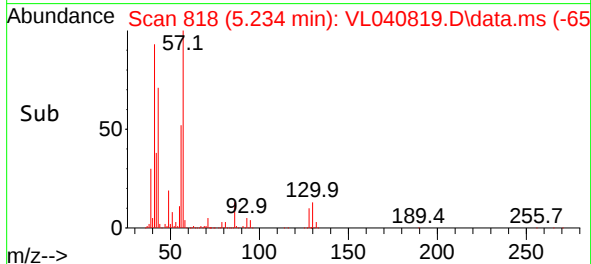
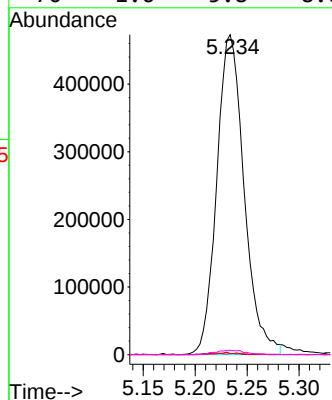
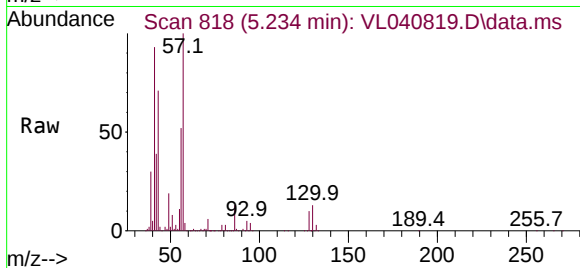
Ion Ratio Lower Upper

43 100

45 0.7 8.2 12.4#

61 0.5 8.2 12.2#

70 1.6 5.8 8.6#



#26

Hexane

Concen: 11.499 ppbv

RT: 5.234 min Scan# 818

Delta R.T. 0.006 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Tgt Ion: 57 Resp: 1205720

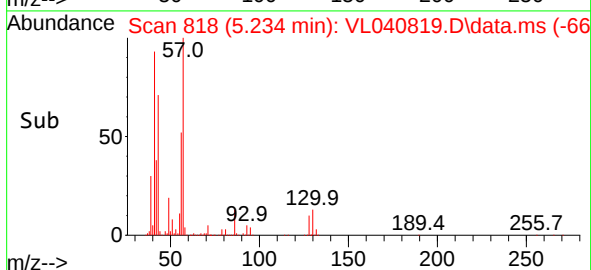
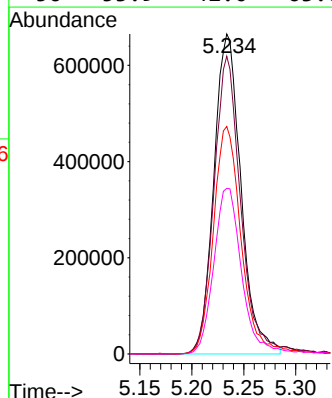
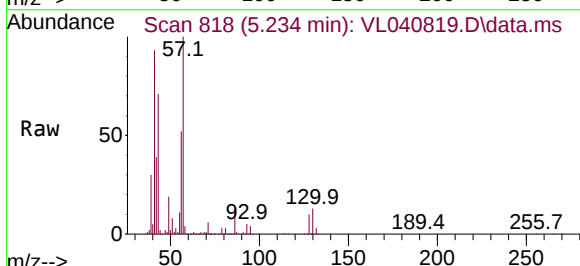
Ion Ratio Lower Upper

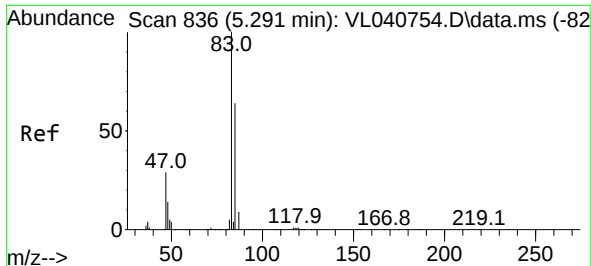
57 100

41 93.7 71.4 107.2

43 73.6 182.3 273.5#

56 53.9 42.0 63.0





#29

Chloroform

Concen: 0.039 ppbv

RT: 5.298 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Instrument :

MSVOA_L

ClientSampleId :

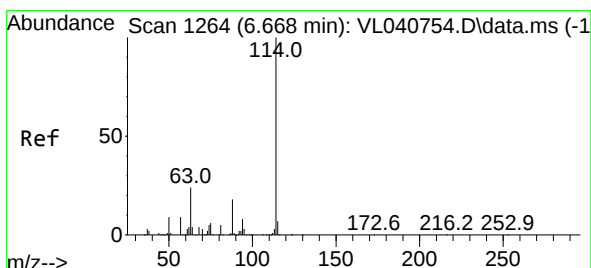
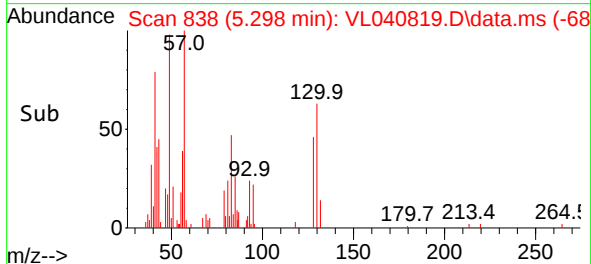
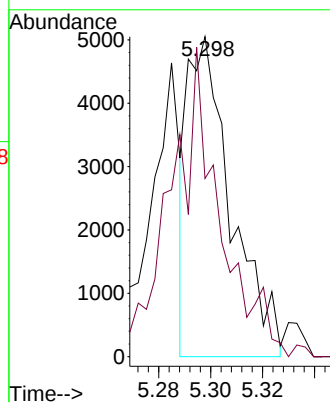
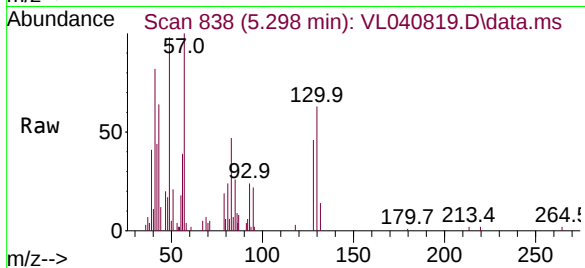
SH-OA-1

Tgt Ion: 83 Resp: 5901

Ion Ratio Lower Upper

83 100

85 53.1 51.3 76.9



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 1262

Delta R.T. -0.003 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

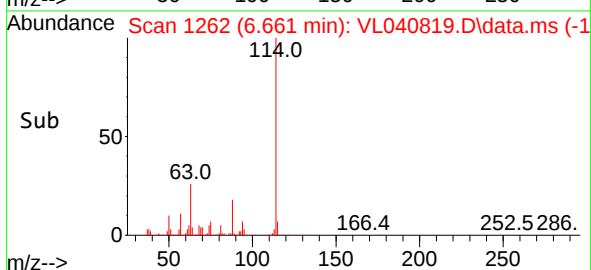
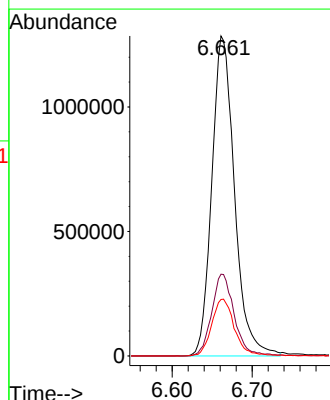
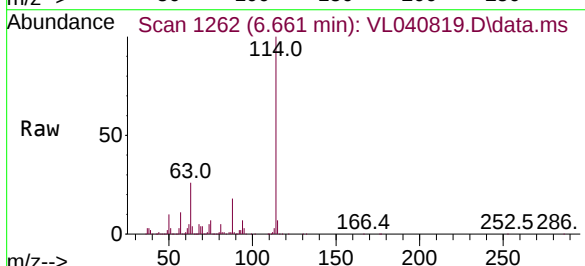
Tgt Ion: 114 Resp: 2532374

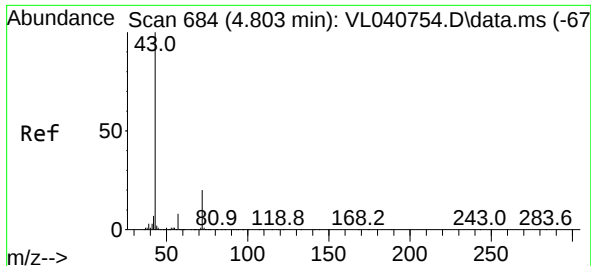
Ion Ratio Lower Upper

114 100

63 25.5 19.8 29.6

88 17.9 14.2 21.2

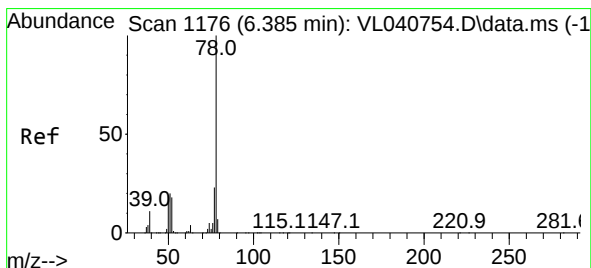
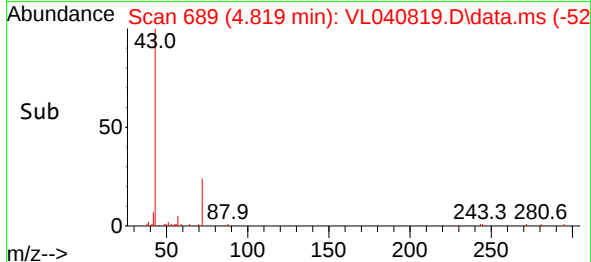
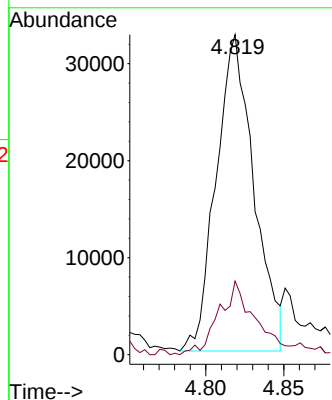
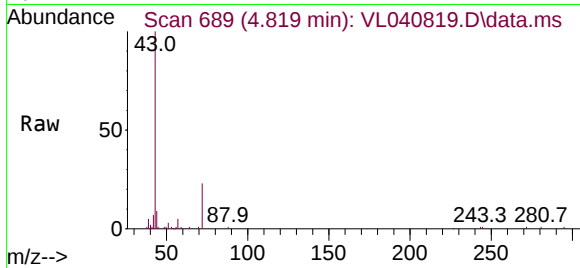




#34
2-Butanone
Concen: 0.479 ppbv
RT: 4.819 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

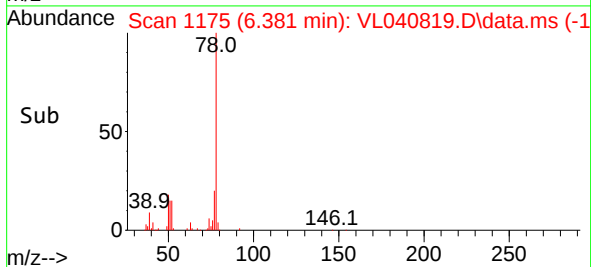
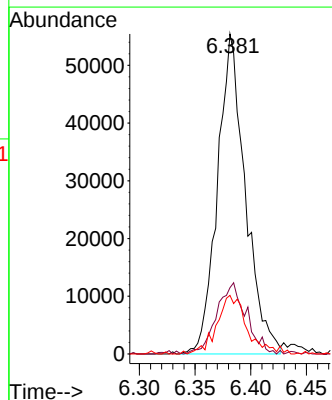
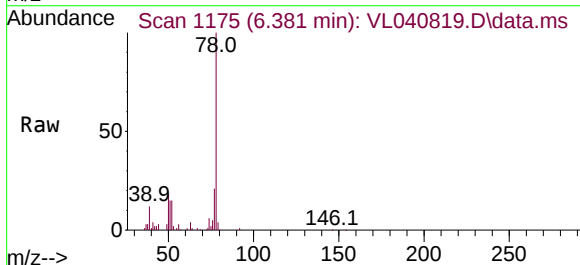
Instrument :
MSVOA_L
ClientSampleId :
SH-OA-1

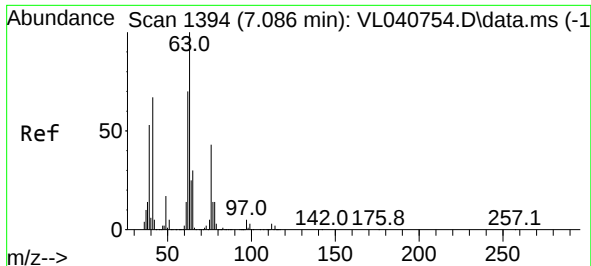
Tgt Ion: 43 Resp: 54963
Ion Ratio Lower Upper
43 100
72 24.8 16.8 25.2



#36
Benzene
Concen: 0.495 ppbv
RT: 6.381 min Scan# 1175
Delta R.T. 0.000 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

Tgt Ion: 78 Resp: 96499
Ion Ratio Lower Upper
78 100
77 20.4 18.4 27.6
50 18.3 15.0 22.4





#39

1,2-Dichloropropane

Concen: 8.339 ppbv

RT: 6.661 min Scan# 1

Delta R.T. -0.421 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Instrument :

MSVOA_1

ClientSampleId :

SH-OA-1

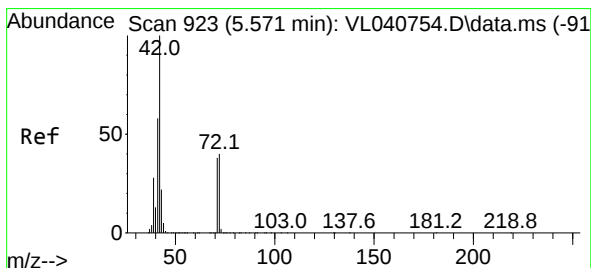
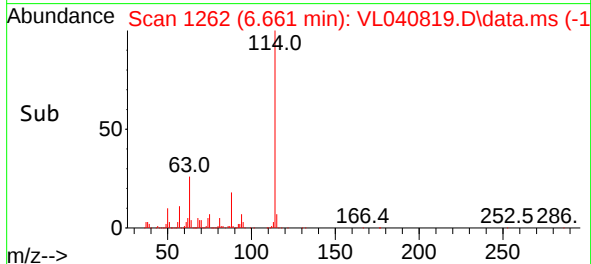
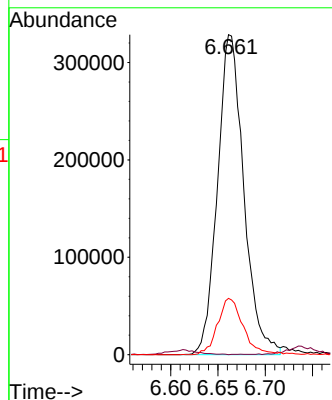
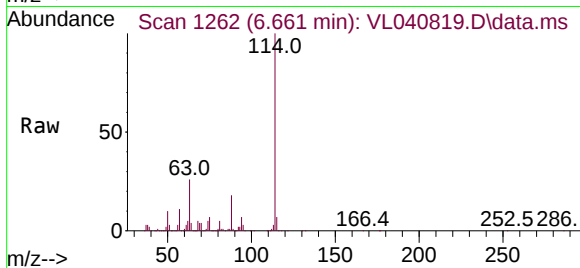
Tgt Ion: 63 Resp: 634610

Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 17.6 55.7 83.5#



#41

Tetrahydrofuran

Concen: 0.083 ppbv

RT: 5.832 min Scan# 1004

Delta R.T. 0.261 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

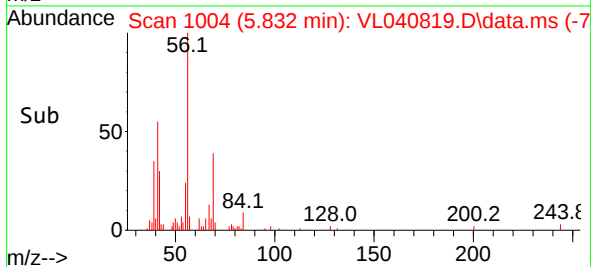
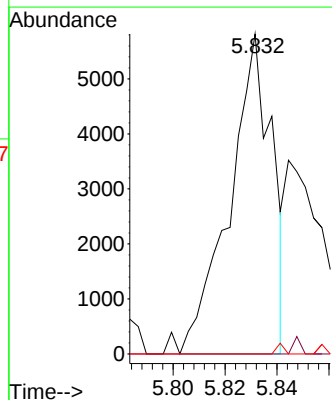
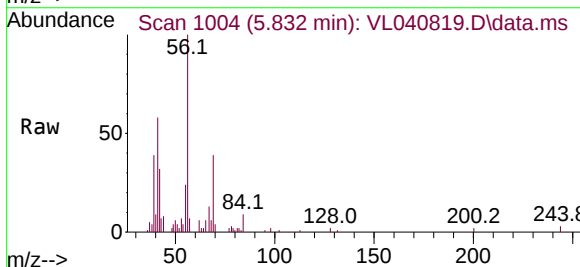
Tgt Ion: 42 Resp: 6574

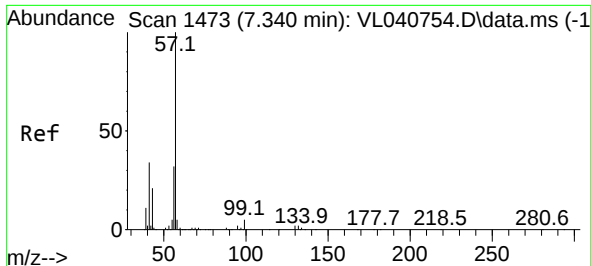
Ion Ratio Lower Upper

42 100

72 3.4 31.1 46.7#

71 0.0 29.7 44.5#

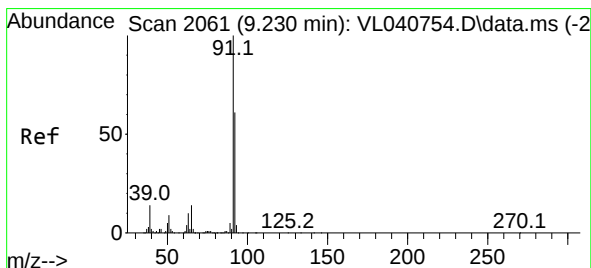
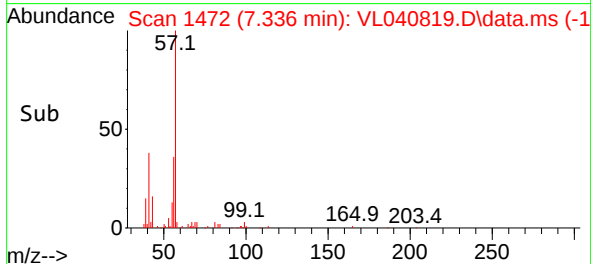
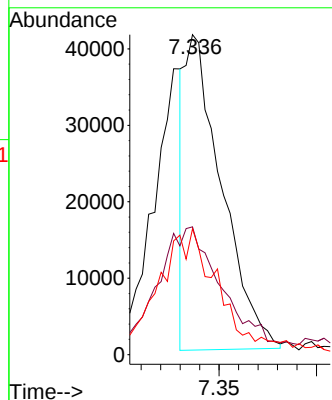
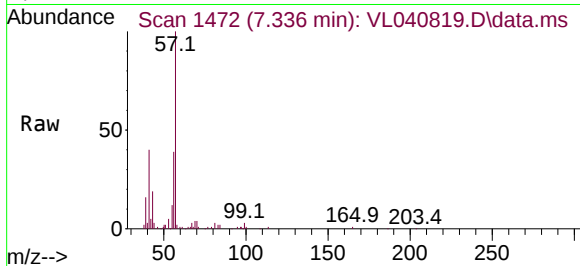




#44
 2,2,4-Trimethylpentane
 Concen: 0.164 ppbv
 RT: 7.336 min Scan# 14
 Delta R.T. 0.003 min
 Lab File: VL040819.D
 Acq: 8 Nov 2023 20:32

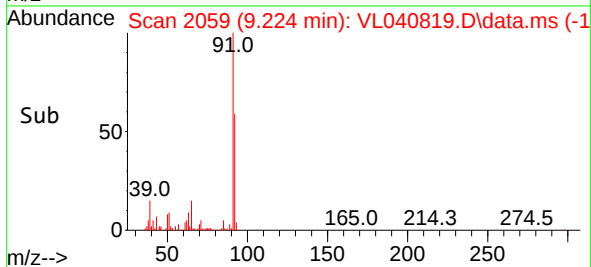
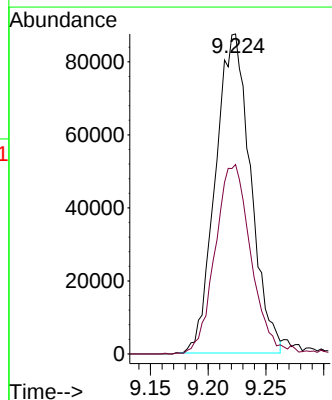
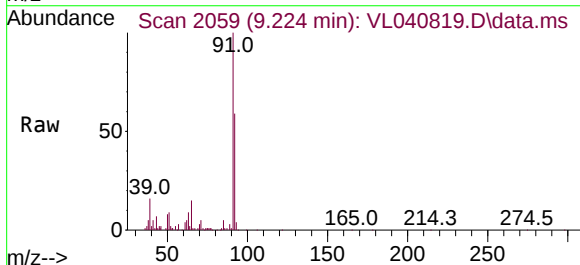
Instrument :
 MSVOA_1
 ClientSampleId :
 SH-OA-1

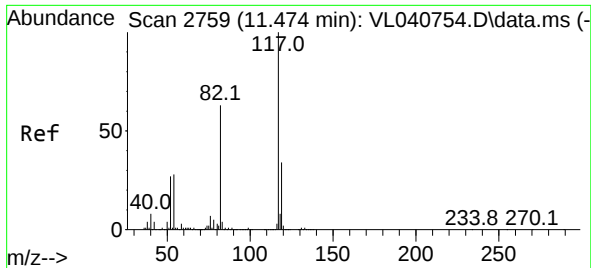
Tgt Ion: 57 Resp: 54023
 Ion Ratio Lower Upper
 57 100
 41 78.4 27.4 41.0#
 56 75.7 25.0 37.6#



#53
 Toluene
 Concen: 0.797 ppbv
 RT: 9.224 min Scan# 2059
 Delta R.T. 0.003 min
 Lab File: VL040819.D
 Acq: 8 Nov 2023 20:32

Tgt Ion: 91 Resp: 184651
 Ion Ratio Lower Upper
 91 100
 92 61.3 50.2 75.2

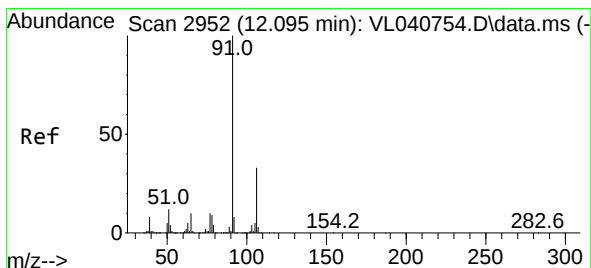
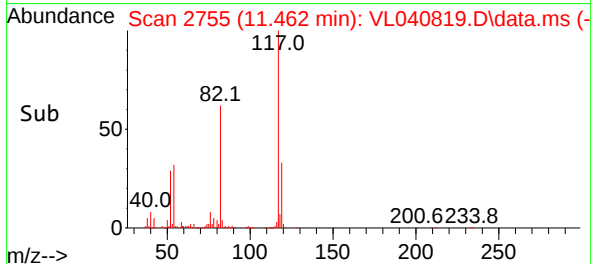
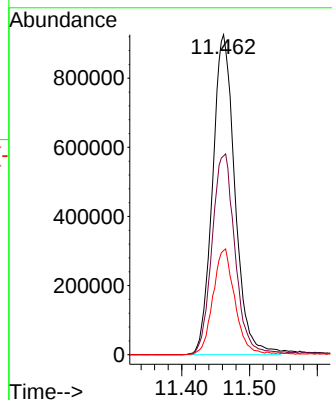
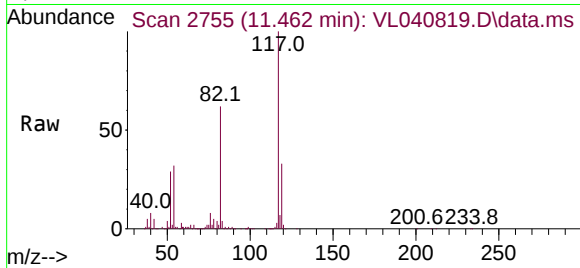




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

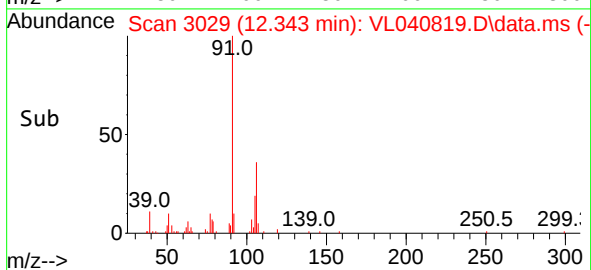
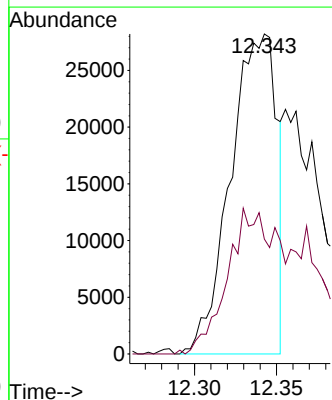
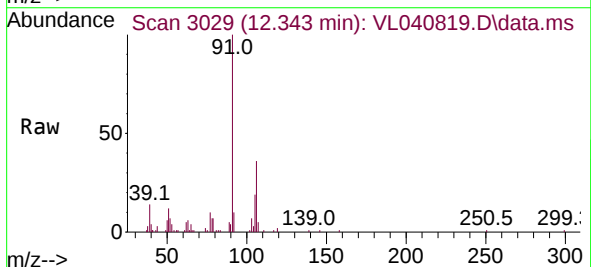
Instrument :
MSVOA_1
ClientSampleId :
SH-OA-1

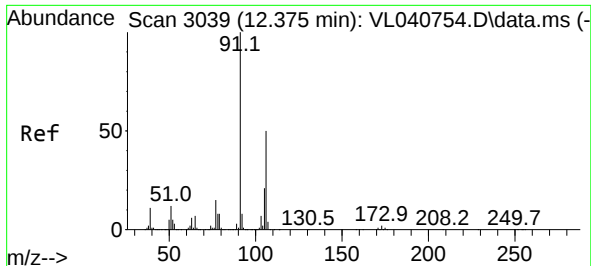
Tgt Ion:117 Resp: 2123380
Ion Ratio Lower Upper
117 100
82 65.9 46.6 70.0
119 32.7 26.0 39.0



#58
Ethyl Benzene
Concen: 0.207 ppbv
RT: 12.343 min Scan# 3029
Delta R.T. 0.260 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

Tgt Ion: 91 Resp: 55352
Ion Ratio Lower Upper
91 100
106 34.7 26.7 40.1





#59

m/p-Xylene

Concen: 0.084 ppbv

RT: 12.371 min Scan# 3039

Delta R.T. 0.003 min

Lab File: VL040819.D

Acq: 8 Nov 2023 20:32

Instrument :

MSVOA_1

ClientSampleId :

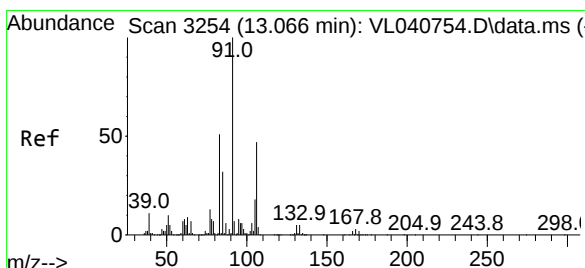
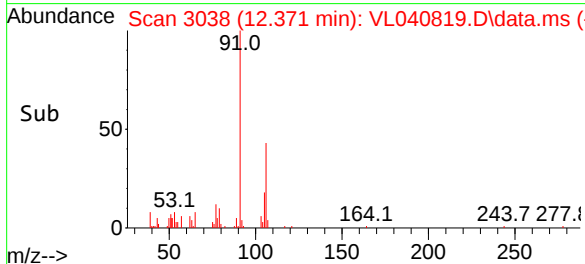
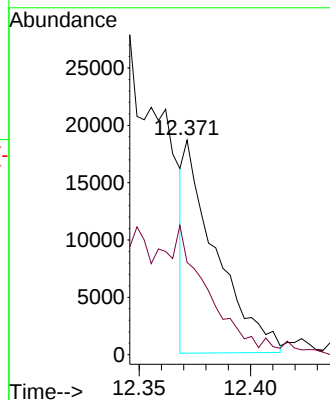
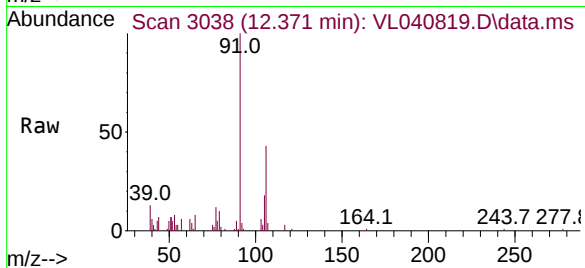
SH-OA-1

Tgt Ion: 91 Resp: 18476

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#



#60

o-Xylene

Concen: 0.098 ppbv

RT: 13.056 min Scan# 3251

Delta R.T. 0.003 min

Lab File: VL040819.D

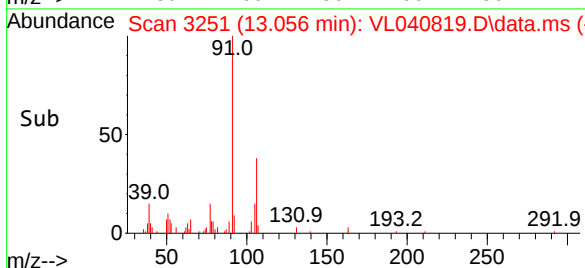
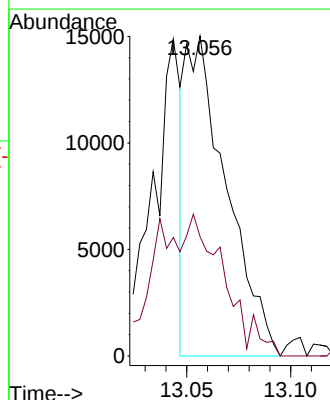
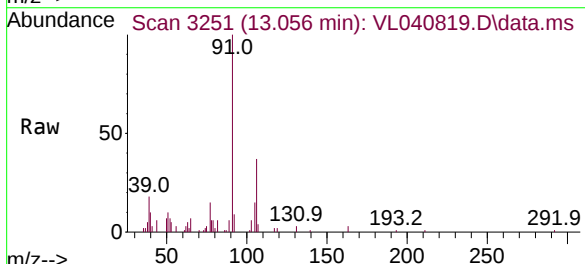
Acq: 8 Nov 2023 20:32

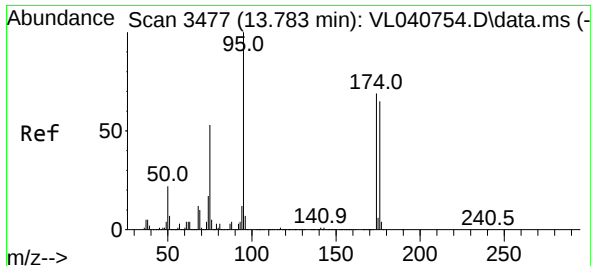
Tgt Ion: 91 Resp: 20646

Ion Ratio Lower Upper

91 100

106 76.3 23.5 70.5#

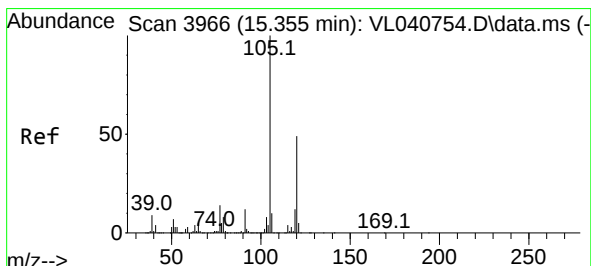
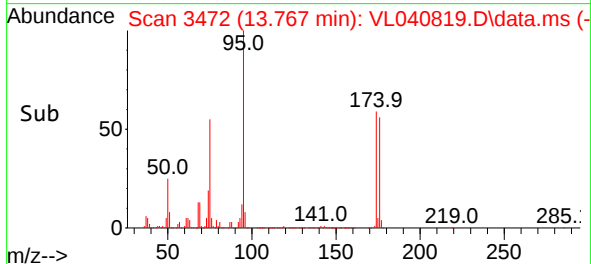
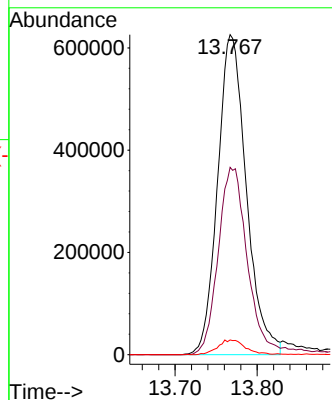
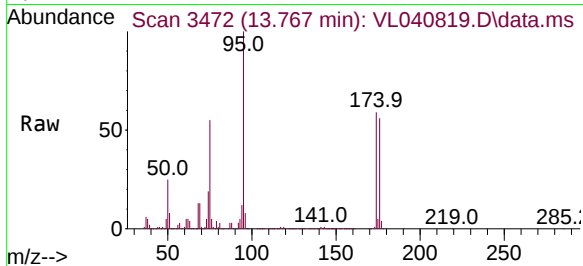




#68
1-Bromo-4-Fluorobenzene
Concen: 9.757 ppbv
RT: 13.767 min Scan# 3477
Delta R.T. -0.003 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

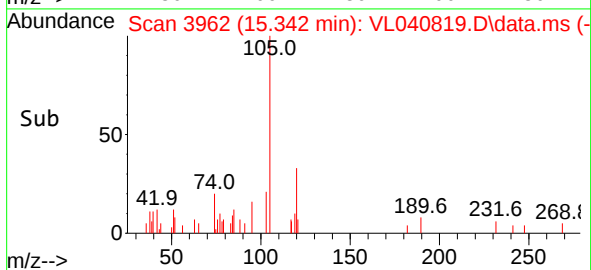
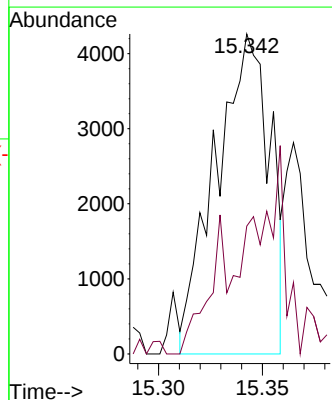
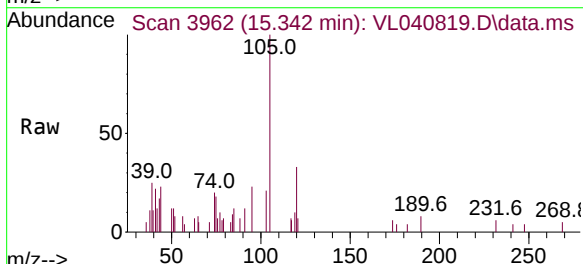
Instrument :
MSVOA_L
ClientSampleId :
SH-OA-1

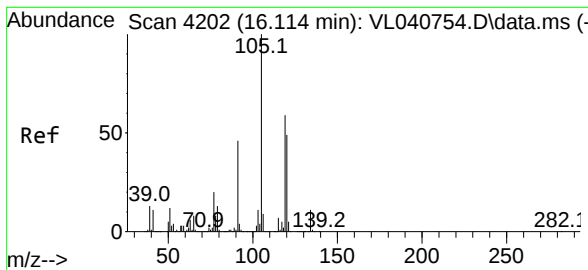
Tgt Ion: 95 Resp: 1524447
Ion Ratio Lower Upper
95 100
174 61.7 54.7 82.1
175 4.5 4.2 6.4



#73
1,3,5-Trimethylbenzene
Concen: 0.036 ppbv
RT: 15.342 min Scan# 3962
Delta R.T. 0.000 min
Lab File: VL040819.D
Acq: 8 Nov 2023 20:32

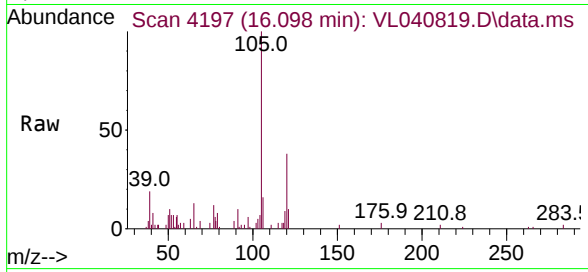
Tgt Ion: 105 Resp: 7747
Ion Ratio Lower Upper
105 100
120 42.9 39.4 59.2





#74
 1,2,4-Trimethylbenzene
 Concen: 0.126 ppbv
 RT: 16.098 min Scan# 41
 Delta R.T. -0.003 min
 Lab File: VL040819.D
 Acq: 8 Nov 2023 20:32

Instrument :
 MSVOA_L
 ClientSampleId :
 SH-OA-1



Tgt Ion:	105	Resp:	29779
Ion	Ratio	Lower	Upper
105	100		
120	35.0	39.4	59.2#
91	4.7	38.6	58.0#
77	13.8	16.6	25.0#

