

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041411.D
 Acq On : 26 Jul 2024 8:02
 Operator : SY/MD
 Sample : P3320-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

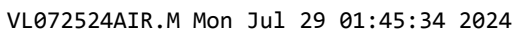
Quant Time: Jul 29 01:45:12 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 Response via : Initial Calibration

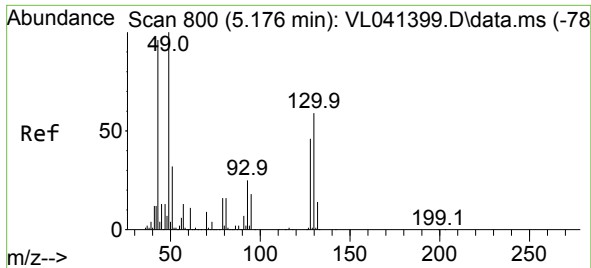
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.172	49	1048614	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2892990	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2383792	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1753474	9.558	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	31354	0.174	ppbv	96
3) Chlorodifluoromethane	2.655	51	71399	0.572	ppbv #	88
4) Chloromethane	2.790	50	36697	0.553	ppbv	100
9) Propene	2.684	41	28892	0.504	ppbv #	82
10) Heptane	7.565	43	5149	0.040	ppbv #	1
11) Trichlorofluoromethane	3.539	101	34839	0.217	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.041	101	4580	0.040	ppbv #	12
13) Ethanol	3.218	45	838886	163.672	ppbv	96
15) Acetone	3.446	43	871537	7.315	ppbv	100
16) 1,3-Butadiene	2.944	39	4429	0.070	ppbv #	65
19) Isopropyl Alcohol	3.562	45	460561	6.612	ppbv #	98
20) Methylene Chloride	3.912	84	493209	11.101	ppbv	95
23) Vinyl Acetate	4.594	43	30982	0.340	ppbv #	38
25) Ethyl Acetate	5.192	43	335351	1.417	ppbv #	86
26) Hexane	5.195	57	347994	3.544	ppbv #	46
29) Chloroform	5.253	83	7634	0.048	ppbv #	81
31) cis-1,2-Dichloroethene	5.179	61	5080	0.052	ppbv #	28
34) 2-Butanone	4.771	43	47169	0.337	ppbv	98
36) Benzene	6.349	78	32457	0.154	ppbv #	90
39) 1,2-Dichloropropane	6.635	63	698499	8.631	ppbv #	24
41) Tetrahydrofuran	5.552	42	2472	0.031	ppbv #	56
44) 2,2,4-Trimethylpentane	7.311	57	16013	0.045	ppbv #	31
53) Toluene	9.204	91	67727	0.288	ppbv	99
60) o-Xylene	13.040	91	17230	0.077	ppbv	96
61) Styrene	12.880	104	3737	0.037	ppbv #	27

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

Quant Time: Jul 29 01:45:12 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Fri Jul 26 07:31:14 2024
Response via : Initial Calibration

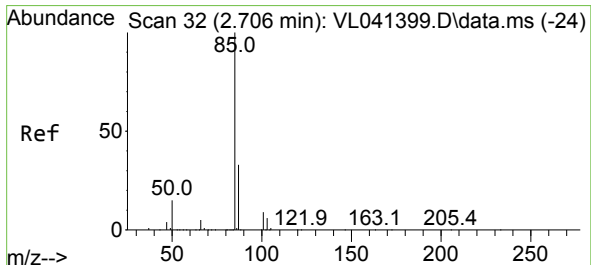
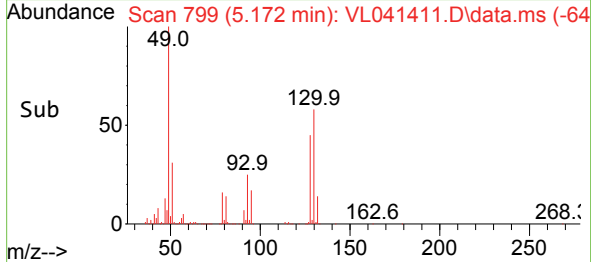
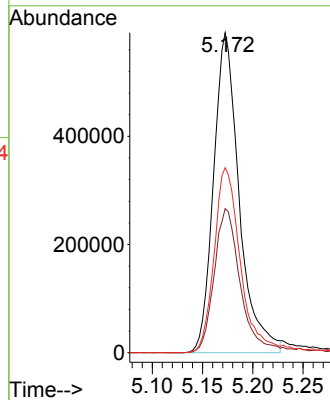
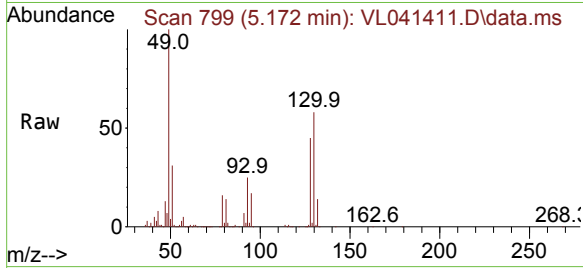




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.172 min Scan# 79
 Delta R.T. -0.004 min
 Lab File: VL041411.D
 Acq: 26 Jul 2024 8:02

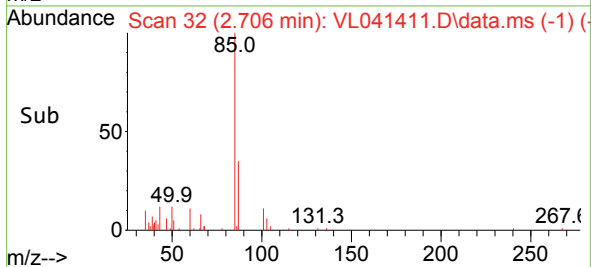
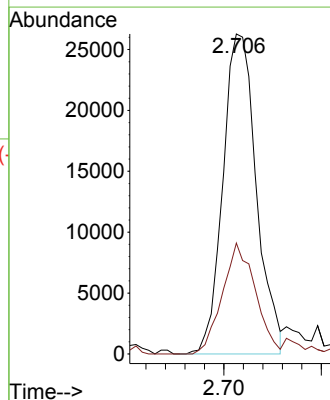
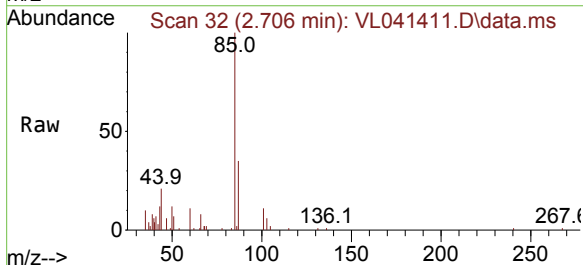
Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

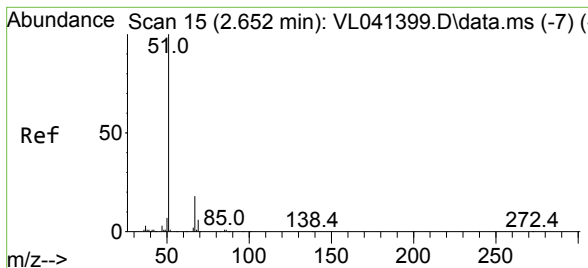
Tgt Ion: 49 Resp: 1048614
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.8 71.4
 130 61.4 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.174 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. 0.000 min
 Lab File: VL041411.D
 Acq: 26 Jul 2024 8:02

Tgt Ion: 85 Resp: 31354
 Ion Ratio Lower Upper
 85 100
 87 34.6 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.572 ppbv

RT: 2.655 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Instrument :

MSVOA_L

ClientSampleId :

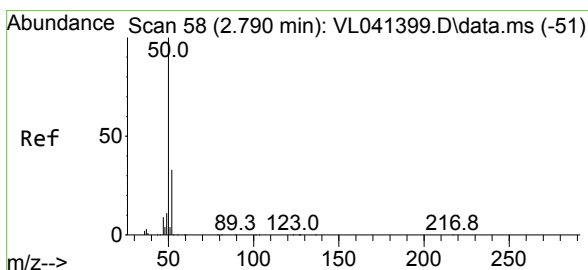
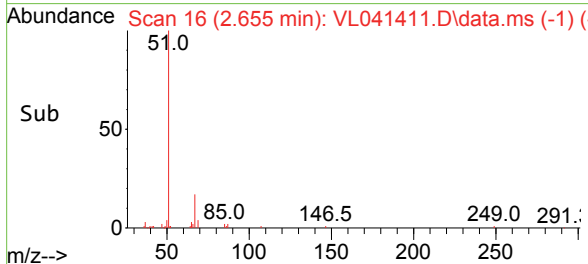
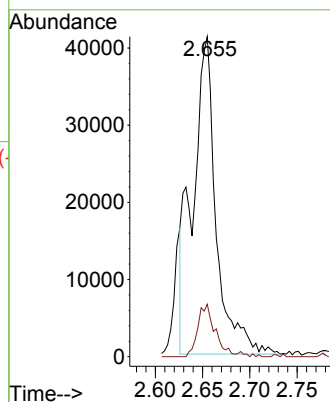
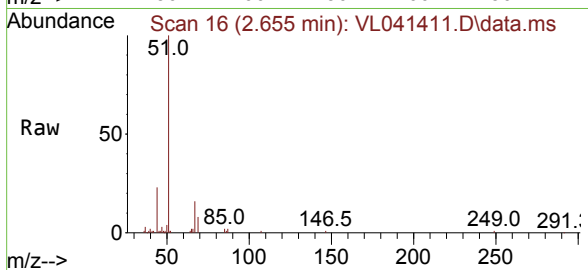
1DUP

Tgt Ion: 51 Resp: 71399

Ion Ratio Lower Upper

51 100

67 12.7 14.5 21.7#



#4

Chloromethane

Concen: 0.553 ppbv

RT: 2.790 min Scan# 58

Delta R.T. 0.000 min

Lab File: VL041411.D

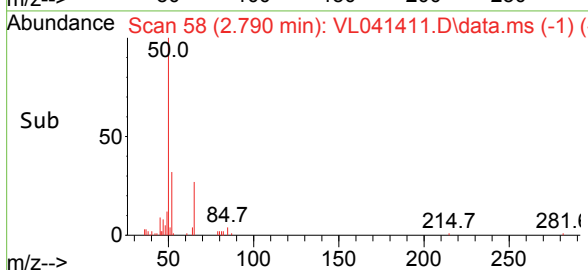
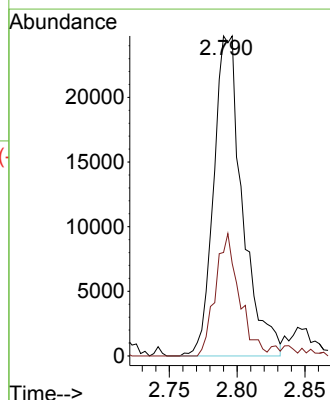
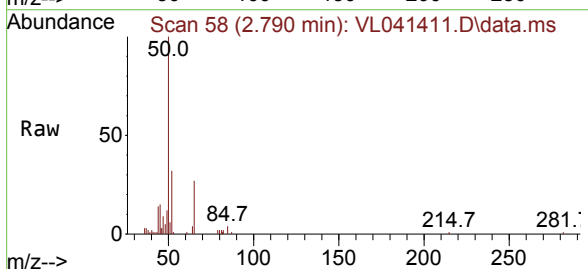
Acq: 26 Jul 2024 8:02

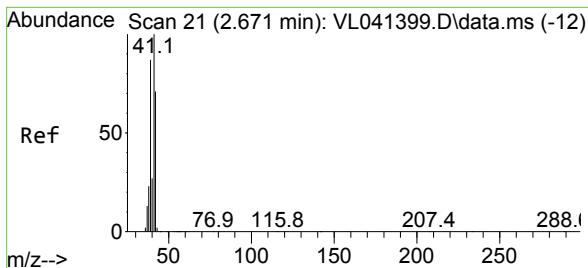
Tgt Ion: 50 Resp: 36697

Ion Ratio Lower Upper

50 100

52 32.3 26.1 39.1





#9

Propene

Concen: 0.504 ppbv

RT: 2.684 min Scan# 21

Delta R.T. 0.013 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Instrument :

MSVOA_L

ClientSampleId :

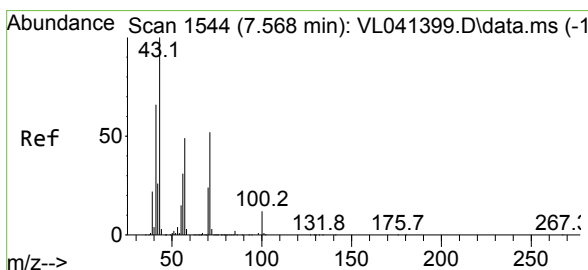
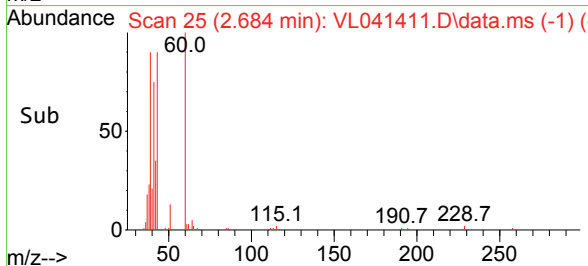
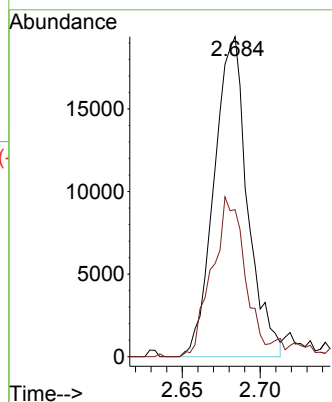
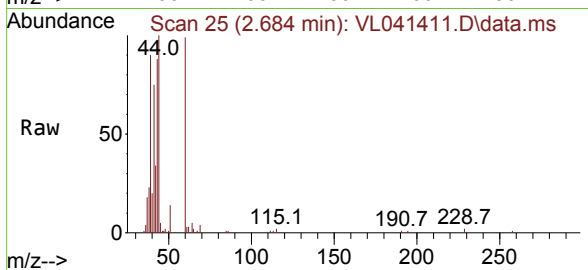
1DUP

Tgt Ion: 41 Resp: 28892

Ion Ratio Lower Upper

41 100

42 54.8 55.9 83.9#



#10

Heptane

Concen: 0.040 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. -0.003 min

Lab File: VL041411.D

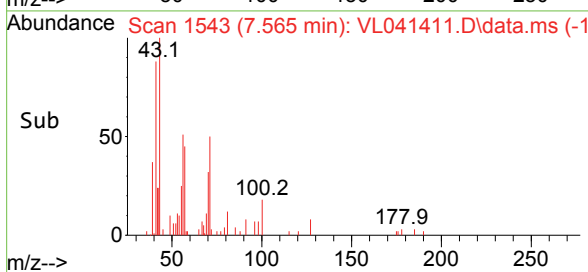
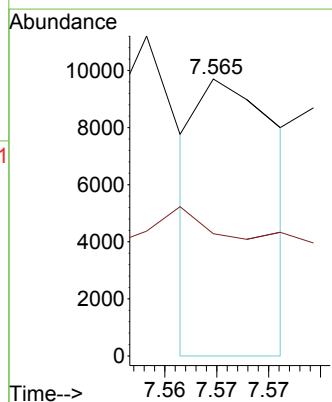
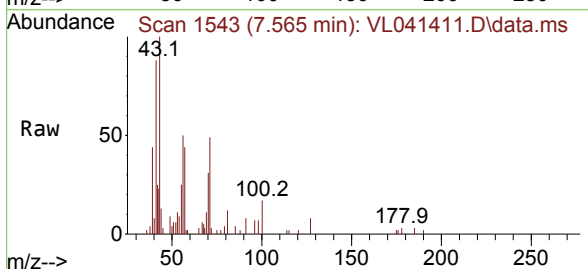
Acq: 26 Jul 2024 8:02

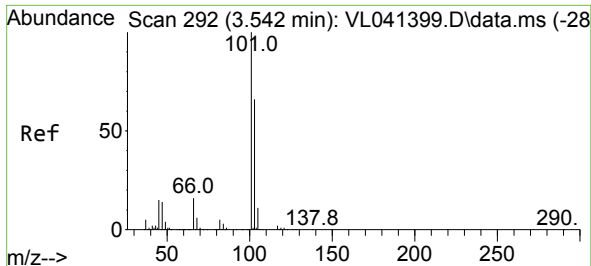
Tgt Ion: 43 Resp: 5149

Ion Ratio Lower Upper

43 100

57 223.3 40.5 60.7#

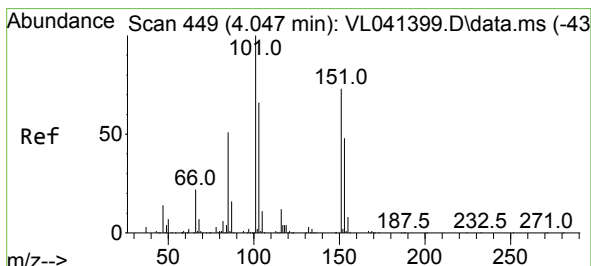
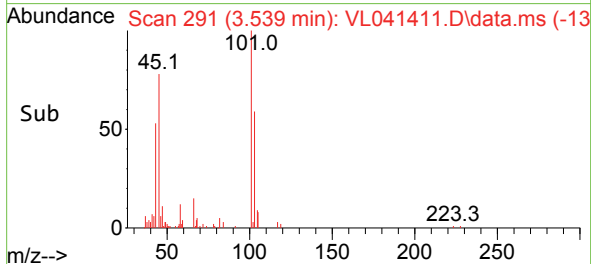
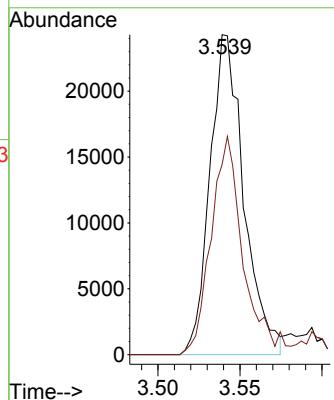
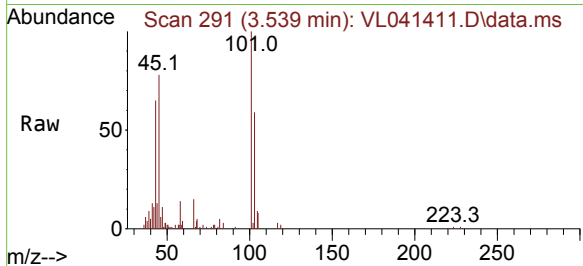




#11
 Trichlorofluoromethane
 Concen: 0.217 ppbv
 RT: 3.539 min Scan# 292
 Delta R.T. -0.003 min
 Lab File: VL041411.D
 Acq: 26 Jul 2024 8:02

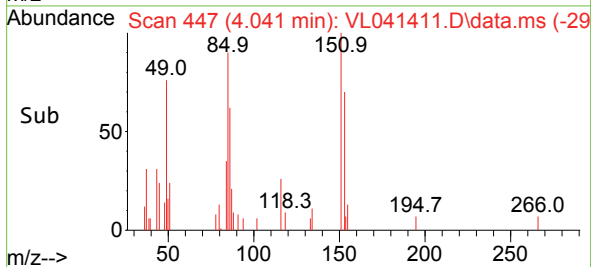
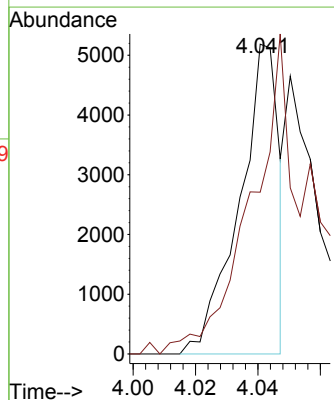
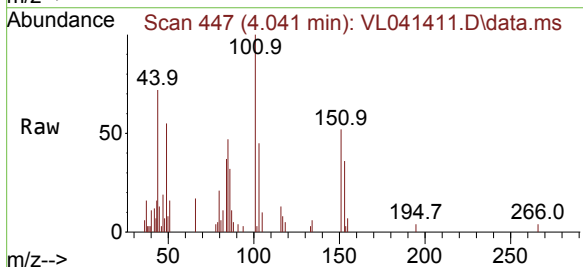
Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

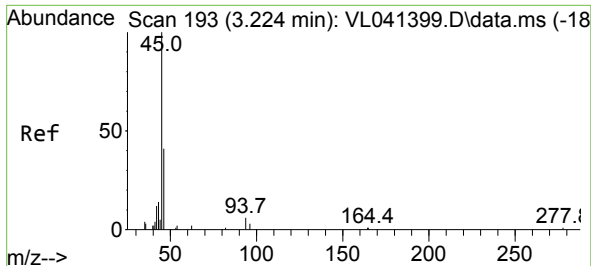
Tgt Ion:101 Resp: 34839
 Ion Ratio Lower Upper
 101 100
 103 59.5 52.6 79.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.040 ppbv
 RT: 4.041 min Scan# 447
 Delta R.T. -0.006 min
 Lab File: VL041411.D
 Acq: 26 Jul 2024 8:02

Tgt Ion:101 Resp: 4580
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.2#

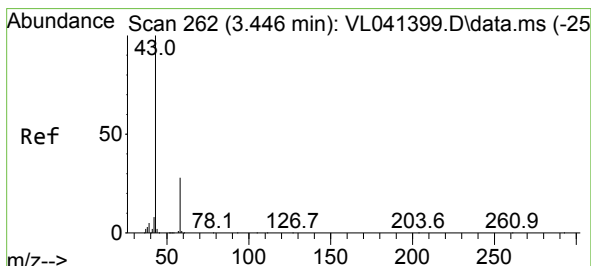
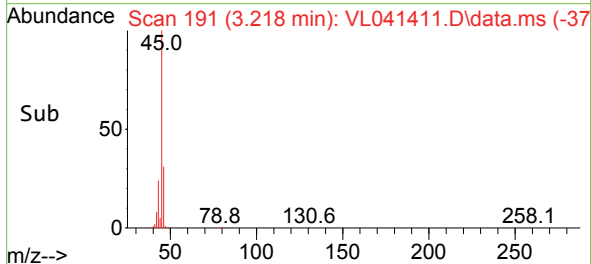
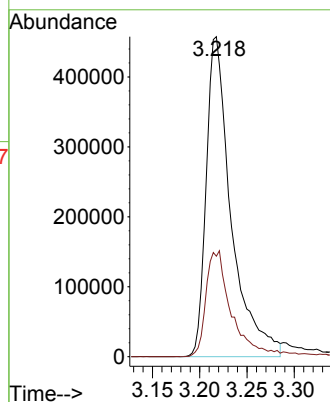
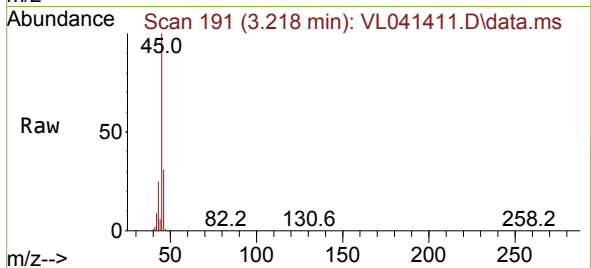




#13
Ethanol
Concen: 163.672 ppbv
RT: 3.218 min Scan# 191
Delta R.T. -0.006 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

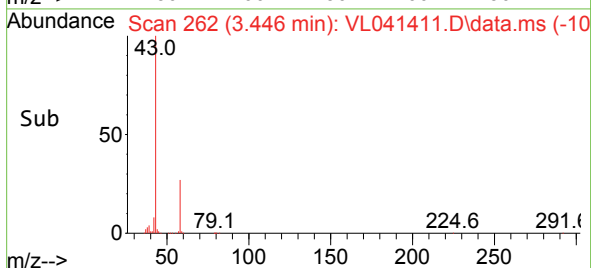
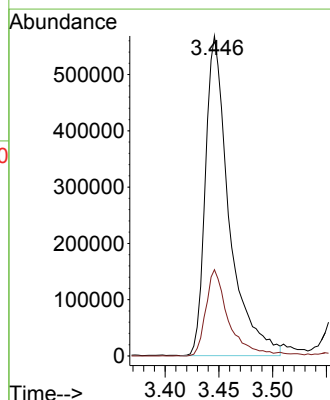
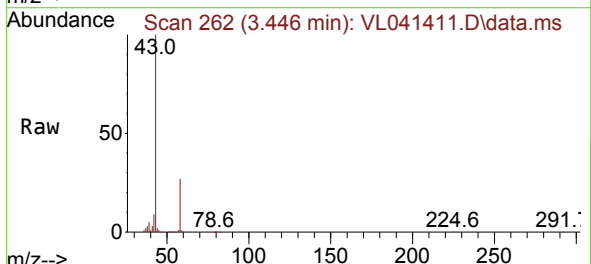
Instrument :
MSVOA_L
ClientSampleId :
1DUP

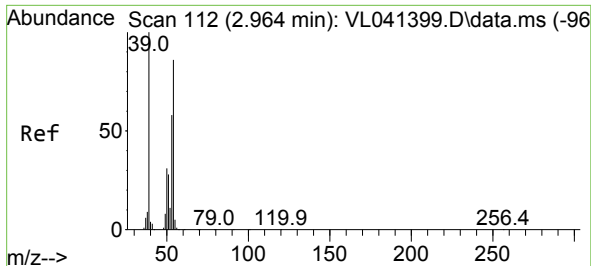
Tgt Ion: 45 Resp: 838886
Ion Ratio Lower Upper
45 100
46 35.9 13.4 53.4



#15
Acetone
Concen: 7.315 ppbv
RT: 3.446 min Scan# 262
Delta R.T. 0.000 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

Tgt Ion: 43 Resp: 871537
Ion Ratio Lower Upper
43 100
58 26.6 21.4 32.2

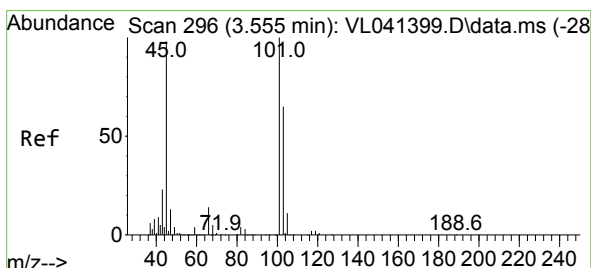
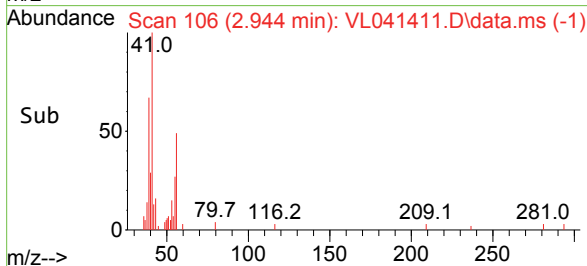
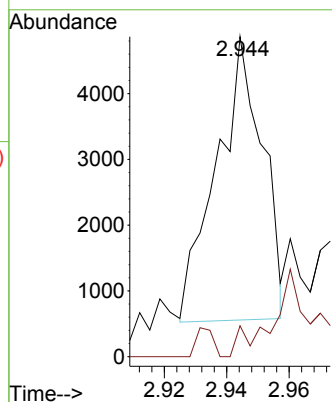
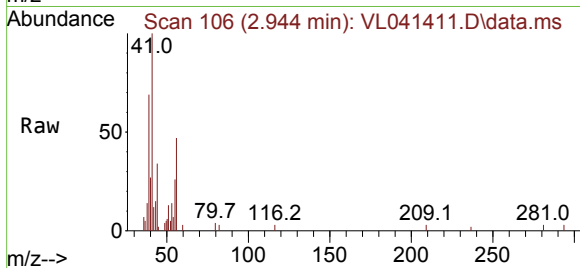




#16
1,3-Butadiene
Concen: 0.070 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.019 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

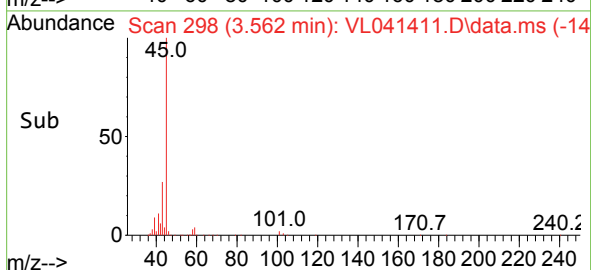
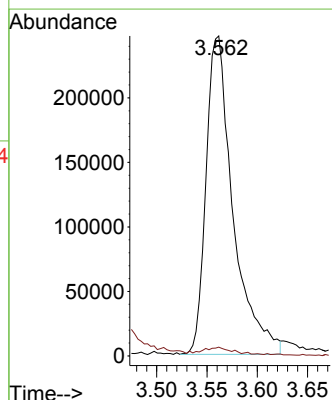
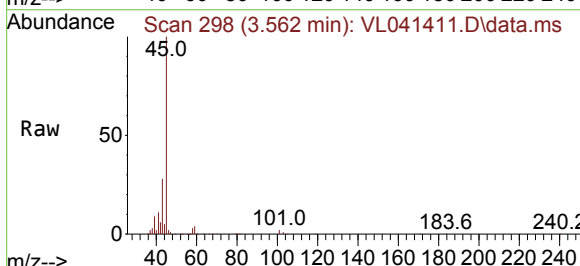
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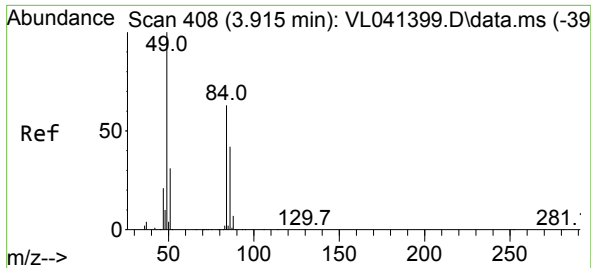
Tgt Ion: 39 Resp: 4429
Ion Ratio Lower Upper
39 100
54 47.5 62.5 93.7#



#19
Isopropyl Alcohol
Concen: 6.612 ppbv
RT: 3.562 min Scan# 298
Delta R.T. 0.006 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

Tgt Ion: 45 Resp: 460561
Ion Ratio Lower Upper
45 100
58 3.2 1.9 2.9#





#20

Methylene Chloride

Concen: 11.101 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.003 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tgt Ion: 84 Resp: 493209

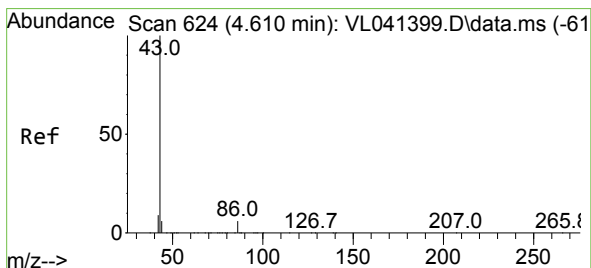
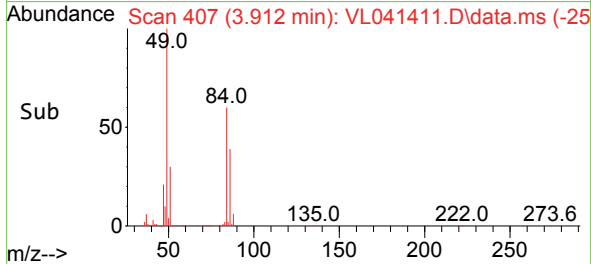
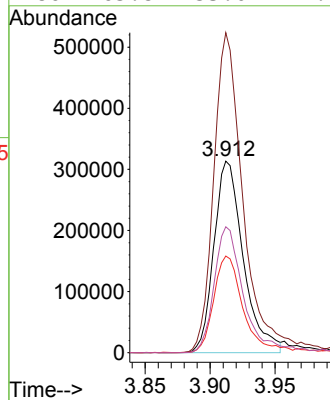
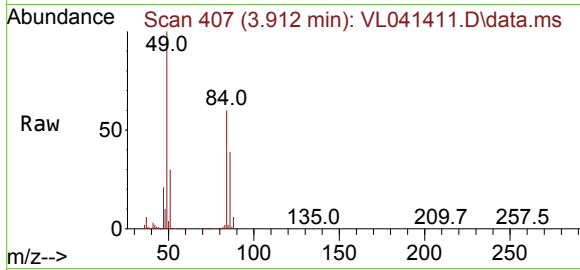
Ion Ratio Lower Upper

84 100

49 167.0 126.6 190.0

51 50.3 38.6 58.0

86 65.8 53.0 79.4



#23

Vinyl Acetate

Concen: 0.340 ppbv

RT: 4.594 min Scan# 619

Delta R.T. -0.016 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Tgt Ion: 43 Resp: 30982

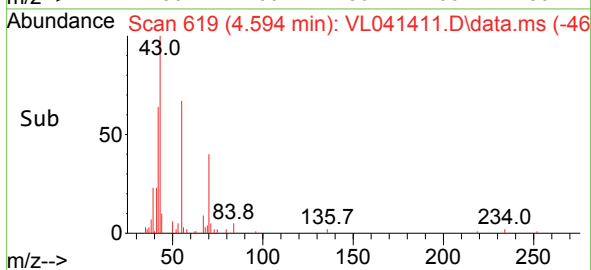
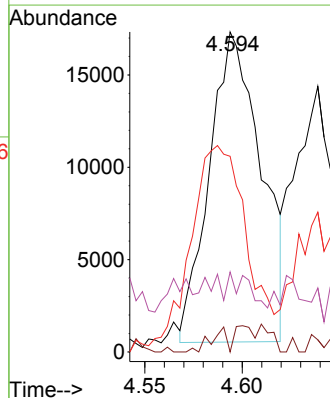
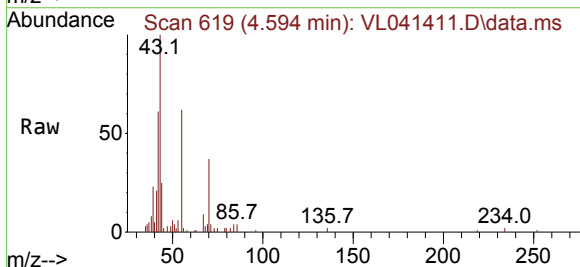
Ion Ratio Lower Upper

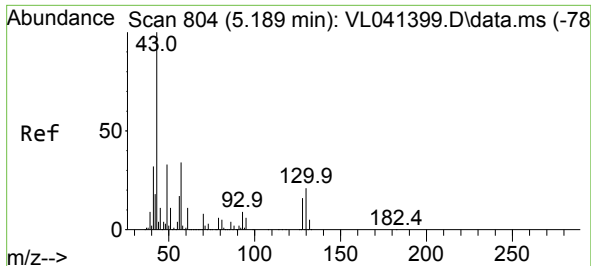
43 100

86 0.0 4.6 6.8#

42 51.3 7.9 11.9#

44 11.1 4.2 6.4#

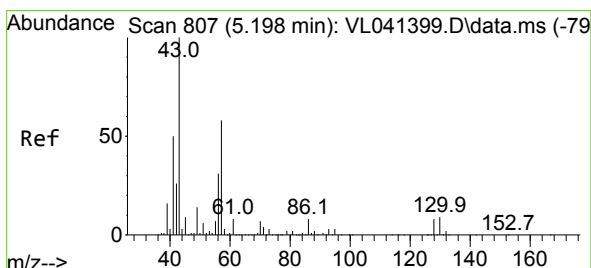
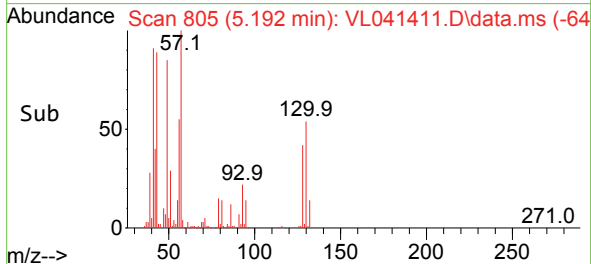
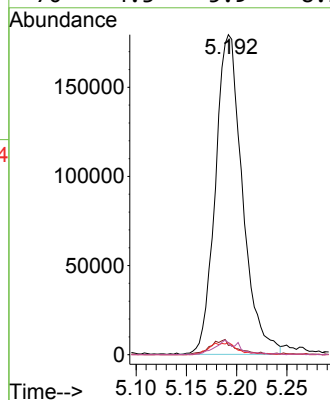
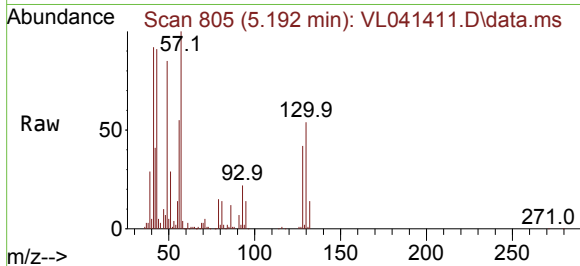




#25
Ethyl Acetate
Concen: 1.417 ppbv
RT: 5.192 min Scan# 804
Delta R.T. 0.003 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

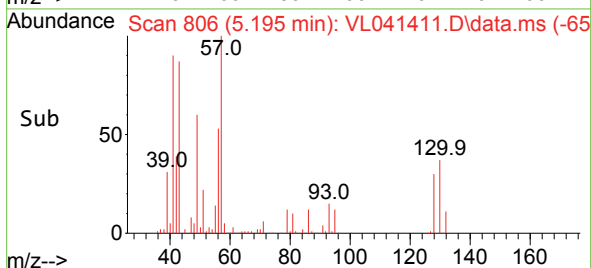
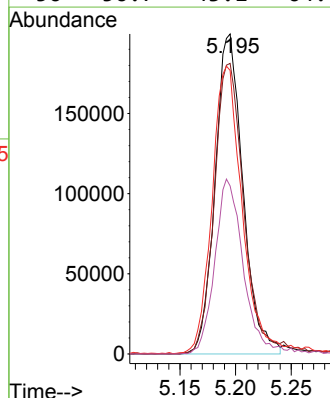
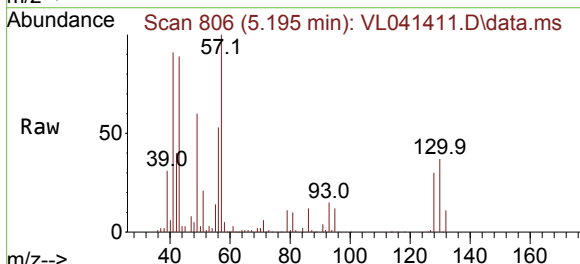
Instrument :
MSVOA_L
ClientSampleId :
1DUP

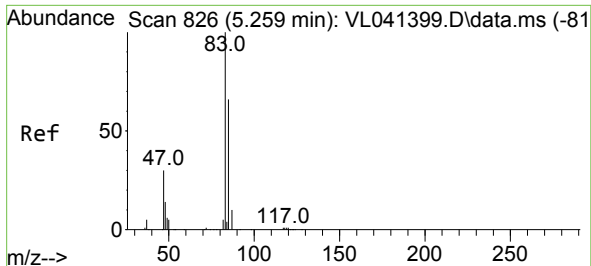
Tgt Ion:	43	Resp:	335351
Ion	Ratio	Lower	Upper
43	100		
45	5.0	8.5	12.7#
61	4.1	8.0	12.0#
70	4.3	5.9	8.9#



#26
Hexane
Concen: 3.544 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

Tgt Ion:	57	Resp:	347994
Ion	Ratio	Lower	Upper
57	100		
41	97.8	74.0	111.0
43	98.8	193.6	290.4#
56	56.7	43.1	64.7





#29

Chloroform

Concen: 0.048 ppbv

RT: 5.253 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Instrument :

MSVOA_L

ClientSampleId :

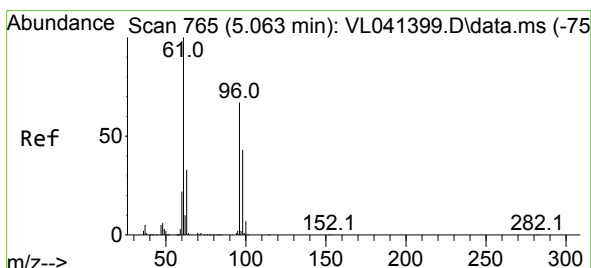
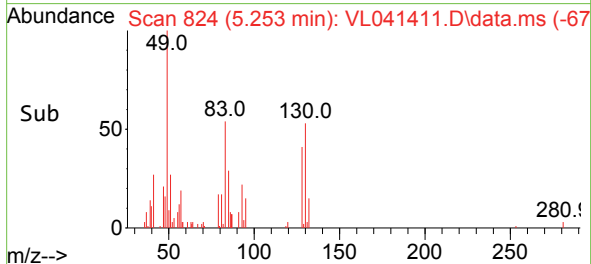
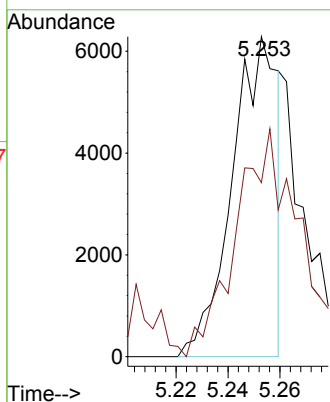
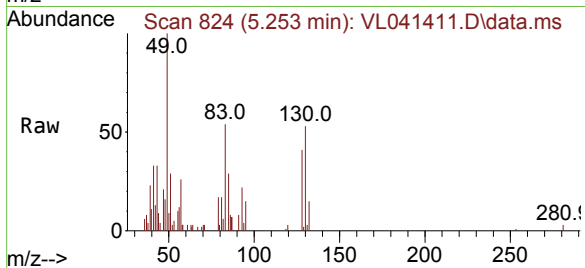
1DUP

Tgt Ion: 83 Resp: 7634

Ion Ratio Lower Upper

83 100

85 51.2 53.1 79.7#



#31

cis-1,2-Dichloroethene

Concen: 0.052 ppbv

RT: 5.179 min Scan# 801

Delta R.T. 0.116 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

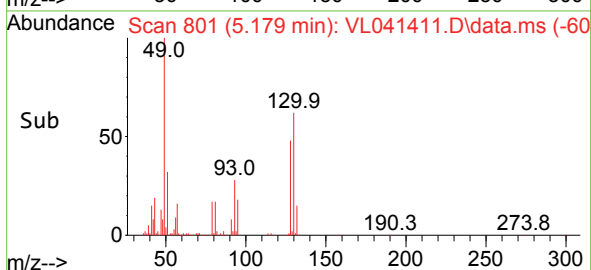
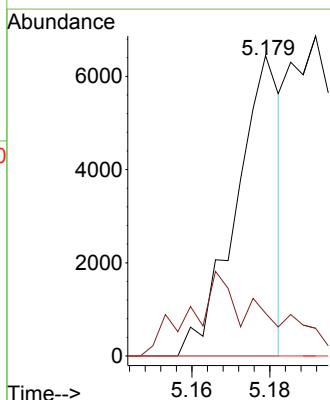
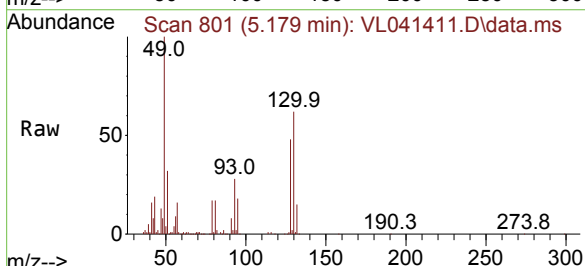
Tgt Ion: 61 Resp: 5080

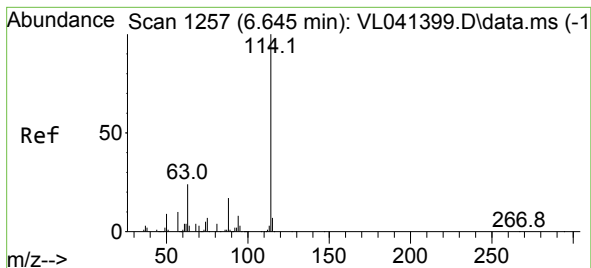
Ion Ratio Lower Upper

61 100

96 6.1 53.4 80.2#

98 0.0 34.4 51.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 114

Delta R.T. -0.010 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Instrument :

MSVOA_L

ClientSampleId :

1DUP

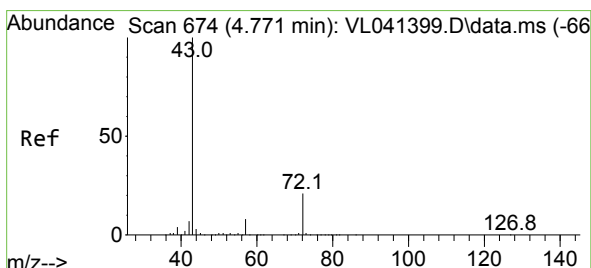
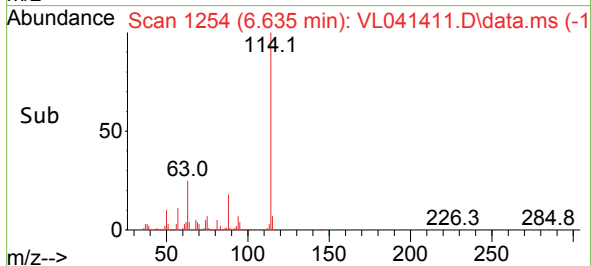
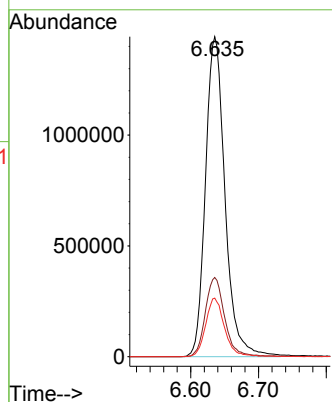
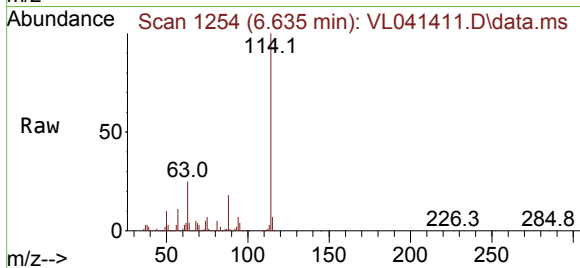
Tgt Ion:114 Resp: 2892990

Ion Ratio Lower Upper

114 100

63 24.7 20.3 30.5

88 17.8 14.3 21.5



#34

2-Butanone

Concen: 0.337 ppbv

RT: 4.771 min Scan# 674

Delta R.T. 0.000 min

Lab File: VL041411.D

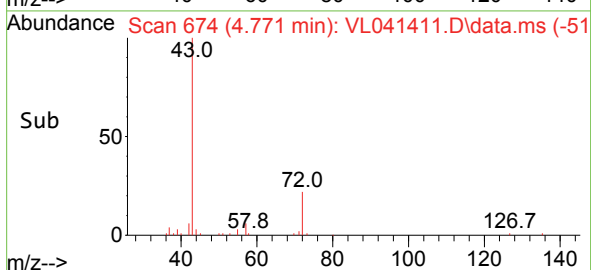
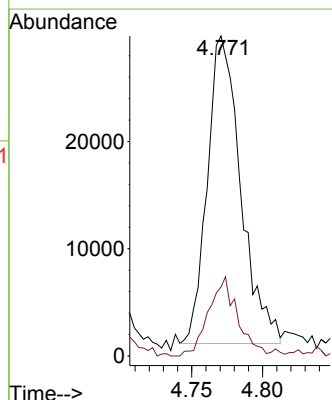
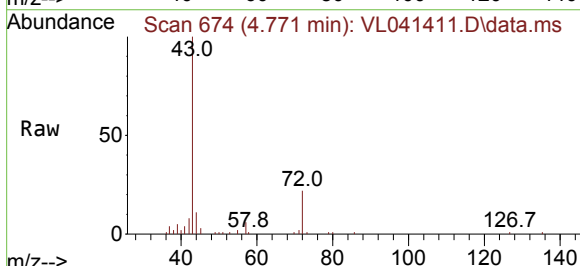
Acq: 26 Jul 2024 8:02

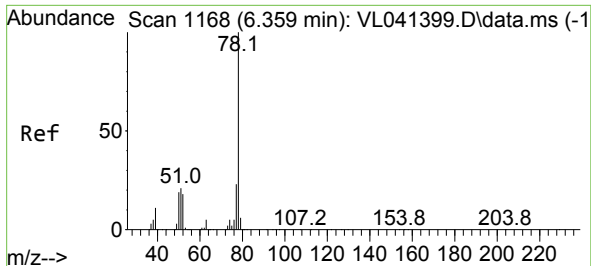
Tgt Ion: 43 Resp: 47169

Ion Ratio Lower Upper

43 100

72 22.7 17.3 25.9

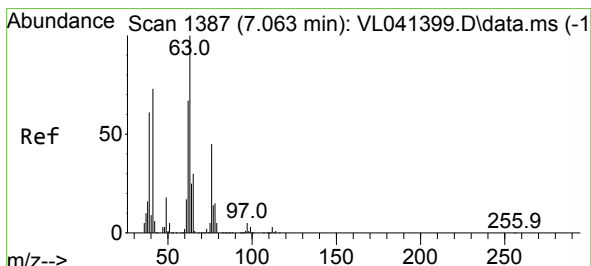
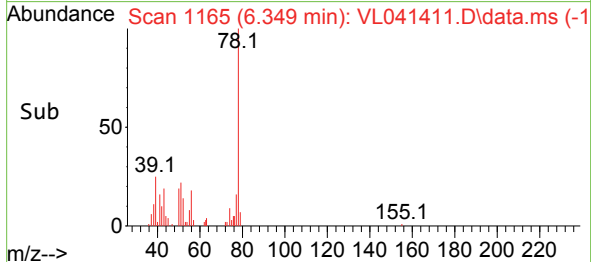
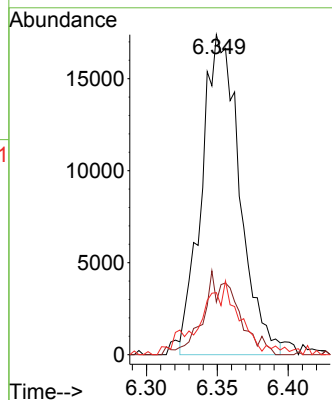
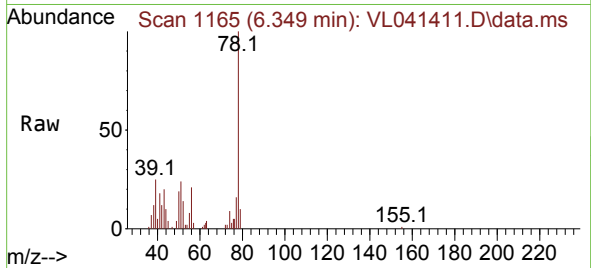




#36
Benzene
Concen: 0.154 ppbv
RT: 6.349 min Scan# 1168
Delta R.T. -0.010 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

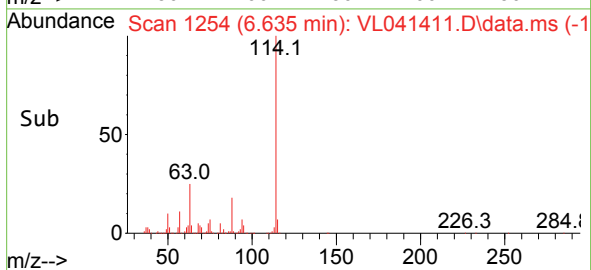
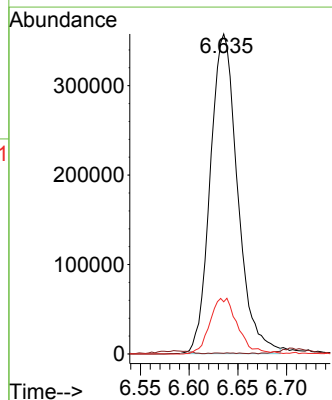
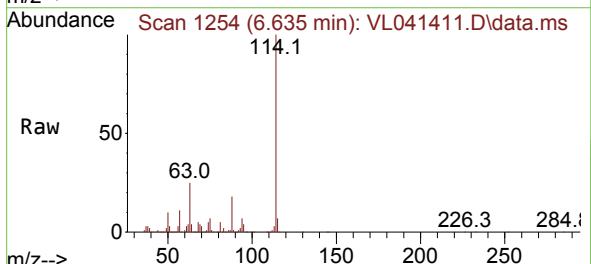
Instrument :
MSVOA_L
ClientSampleId :
1DUP

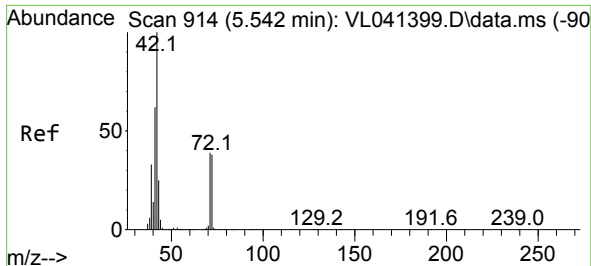
Tgt Ion: 78 Resp: 32457
Ion Ratio Lower Upper
78 100
77 14.7 18.1 27.1#
50 18.6 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.631 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. -0.428 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

Tgt Ion: 63 Resp: 698499
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 16.3 53.9 80.9#





#41

Tetrahydrofuran

Concen: 0.031 ppbv

RT: 5.552 min Scan# 914

Delta R.T. 0.010 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

Instrument :

MSVOA_L

ClientSampleId :

1DUP

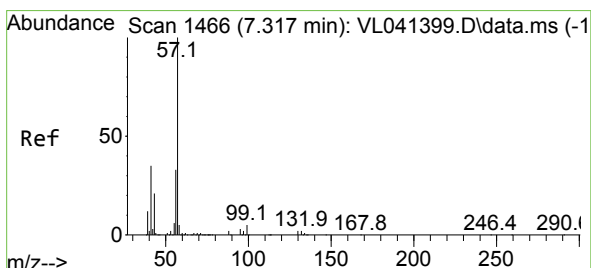
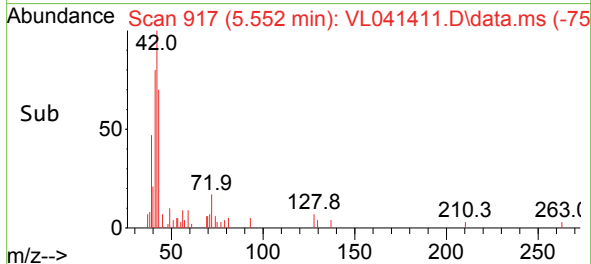
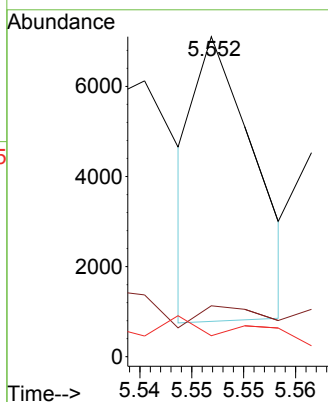
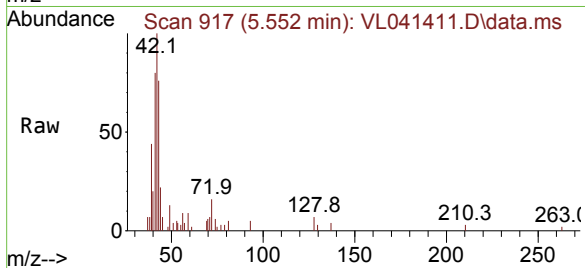
Tgt Ion: 42 Resp: 2472

Ion Ratio Lower Upper

42 100

72 0.0 31.2 46.8#

71 52.5 30.5 45.7#



#44

2,2,4-Trimethylpentane

Concen: 0.045 ppbv

RT: 7.311 min Scan# 1464

Delta R.T. -0.006 min

Lab File: VL041411.D

Acq: 26 Jul 2024 8:02

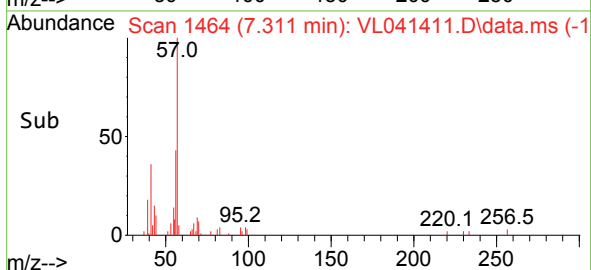
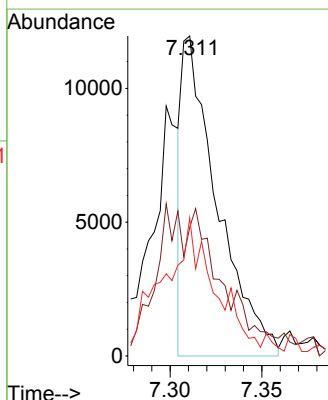
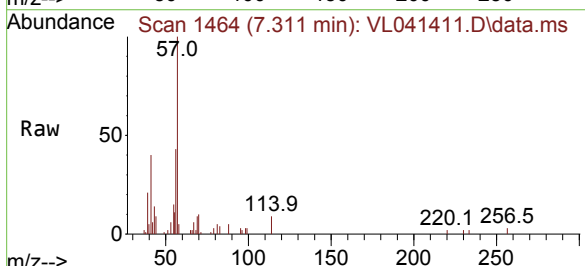
Tgt Ion: 57 Resp: 16013

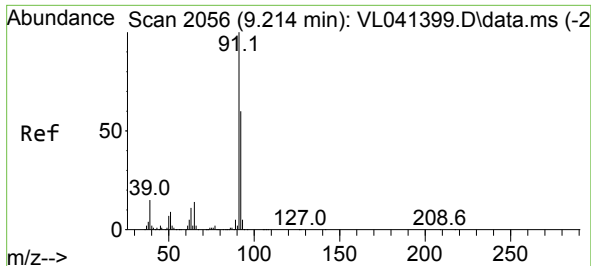
Ion Ratio Lower Upper

57 100

41 0.0 27.0 40.6#

56 75.2 25.2 37.8#

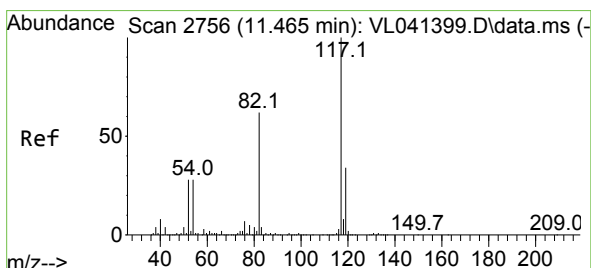
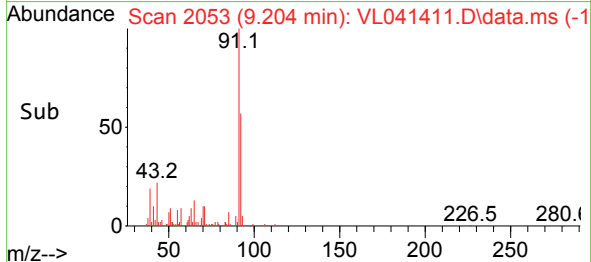
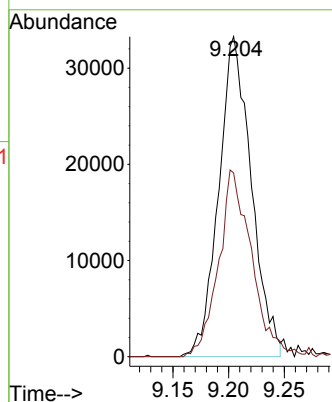
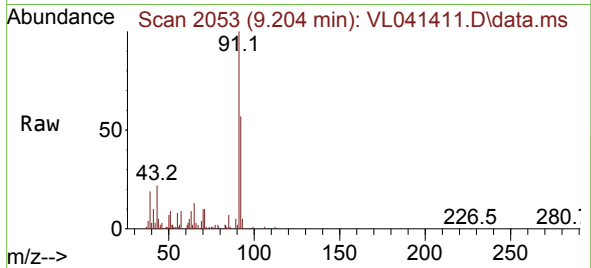




#53
Toluene
Concen: 0.288 ppbv
RT: 9.204 min Scan# 2056
Delta R.T. -0.010 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

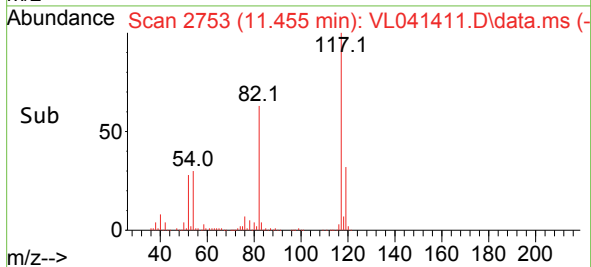
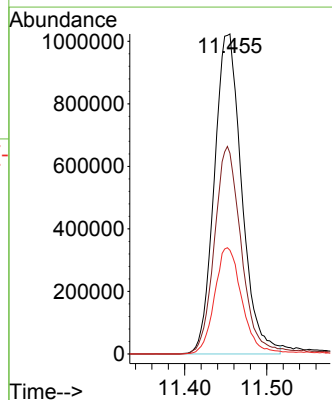
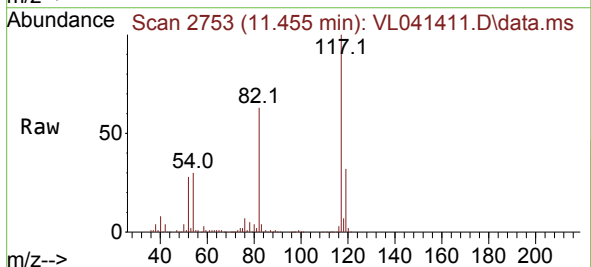
Instrument :
MSVOA_L
ClientSampleId :
1DUP

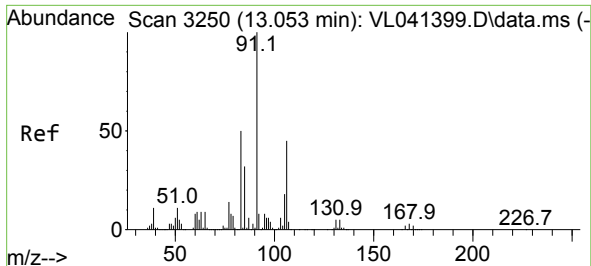
Tgt Ion: 91 Resp: 67727
Ion Ratio Lower Upper
91 100
92 60.0 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.010 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

Tgt Ion: 117 Resp: 2383792
Ion Ratio Lower Upper
117 100
82 65.7 51.0 76.6
119 33.9 45.2 67.8

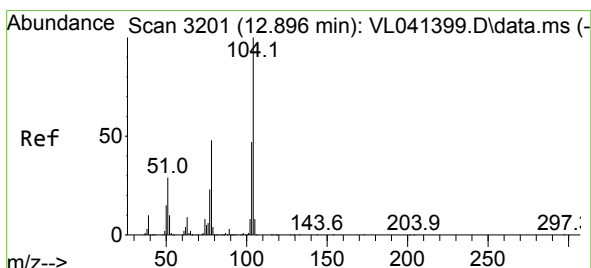
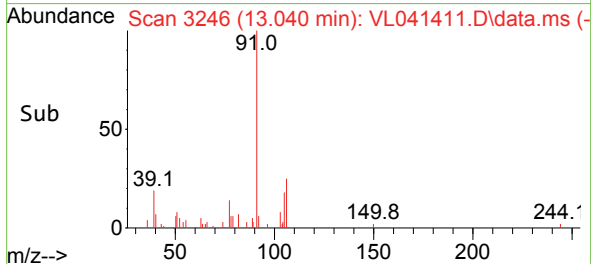
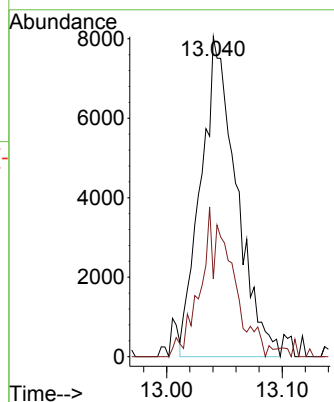
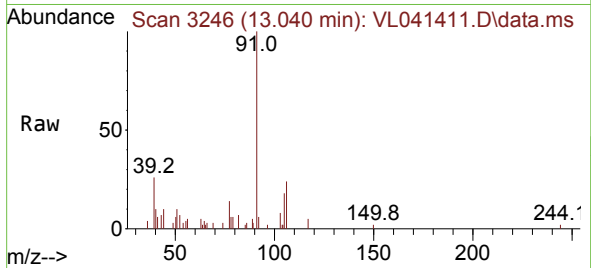




#60
o-Xylene
Concen: 0.077 ppbv
RT: 13.040 min Scan# 3196
Delta R.T. -0.013 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

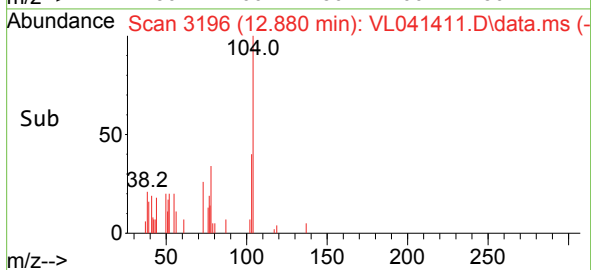
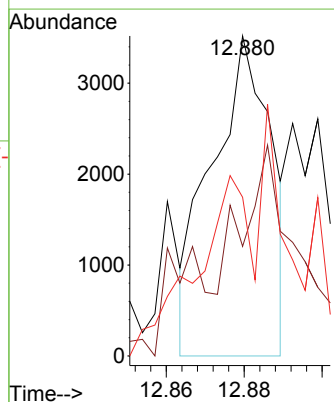
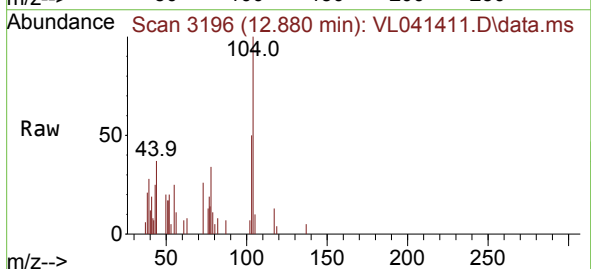
Instrument :
MSVOA_L
ClientSampleId :
1DUP

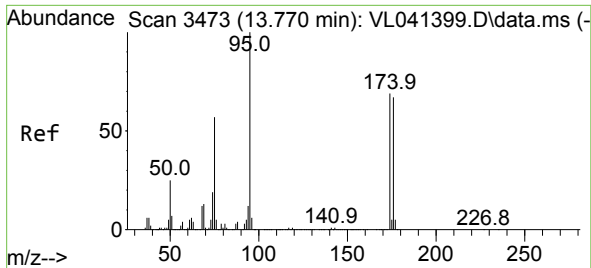
Tgt Ion: 91 Resp: 17230
Ion Ratio Lower Upper
91 100
106 43.6 23.1 69.3



#61
Styrene
Concen: 0.037 ppbv
RT: 12.880 min Scan# 3196
Delta R.T. -0.016 min
Lab File: VL041411.D
Acq: 26 Jul 2024 8:02

Tgt Ion: 104 Resp: 3737
Ion Ratio Lower Upper
104 100
78 91.8 40.8 61.2#
103 107.3 38.2 57.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.558 ppbv
 RT: 13.761 min Scan# 3470
 Delta R.T. -0.010 min
 Lab File: VL041411.D
 Acq: 26 Jul 2024 8:02

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Tgt Ion: 95 Resp: 1753474
 Ion Ratio Lower Upper
 95 100
 174 70.5 56.3 84.5
 175 5.1 4.0 6.0

