

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072524\
 Data File : VL041412.D
 Acq On : 26 Jul 2024 8:43
 Operator : SY/MD
 Sample : P3320-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

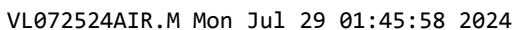
Quant Time: Jul 29 01:45:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jul 26 07:31:14 2024
 Response via : Initial Calibration

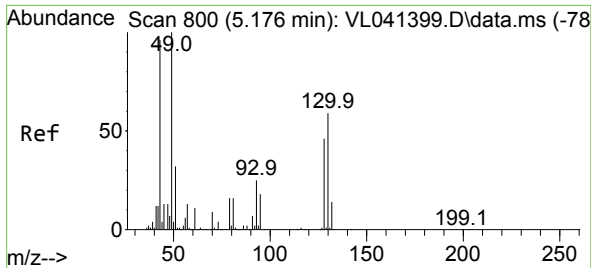
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.173	49	976357	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.636	114	2652465	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2455657	10.000	ppbv	#-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1801962	9.535	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	45911	0.273	ppbv	96
3) Chlorodifluoromethane	2.655	51	62573	0.538	ppbv #	88
4) Chloromethane	2.790	50	37103	0.600	ppbv	96
9) Propene	2.681	41	26492	0.496	ppbv #	74
10) Heptane	7.558	43	4915	0.041	ppbv #	43
11) Trichlorofluoromethane	3.546	101	34521	0.231	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.044	101	4869	0.045	ppbv #	52
13) Ethanol	3.221	45	209340	43.866	ppbv	96
15) Acetone	3.446	43	595273	5.366	ppbv	99
17) tert-Butyl alcohol	3.883	59	8658	0.086	ppbv	100
19) Isopropyl Alcohol	3.565	45	158887	2.450	ppbv #	93
20) Methylene Chloride	3.912	84	1306217	31.576	ppbv	97
23) Vinyl Acetate	4.600	43	10127	0.120	ppbv #	77
25) Ethyl Acetate	5.195	43	524989	2.382	ppbv #	78
26) Hexane	5.195	57	681833	7.458	ppbv #	39
34) 2-Butanone	4.777	43	36383	0.284	ppbv	95
39) 1,2-Dichloropropane	6.636	63	641324	8.643	ppbv #	25
41) Tetrahydrofuran	5.536	42	10262	0.140	ppbv #	61
53) Toluene	9.208	91	48851	0.226	ppbv	96

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

Quant Time: Jul 29 01:45:47 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

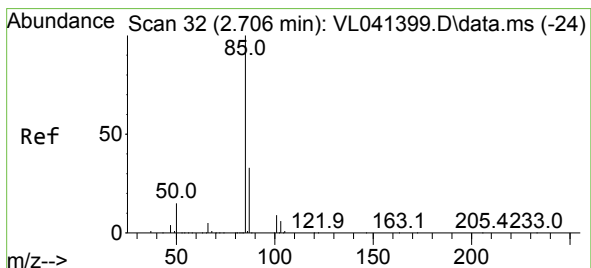
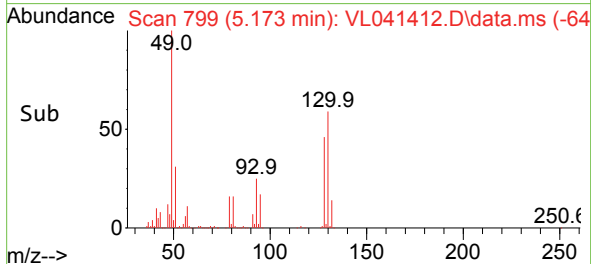
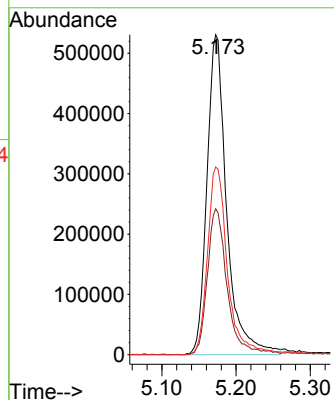
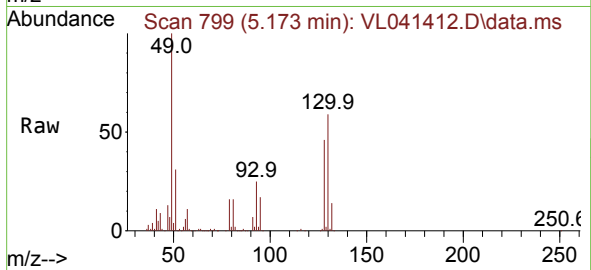




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.173 min Scan# 79
 Delta R.T. -0.003 min
 Lab File: VL041412.D
 Acq: 26 Jul 2024 8:43

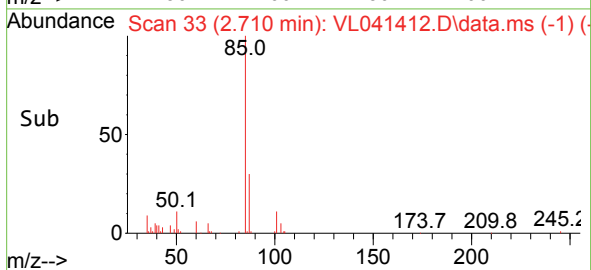
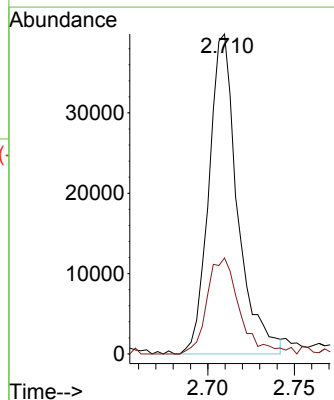
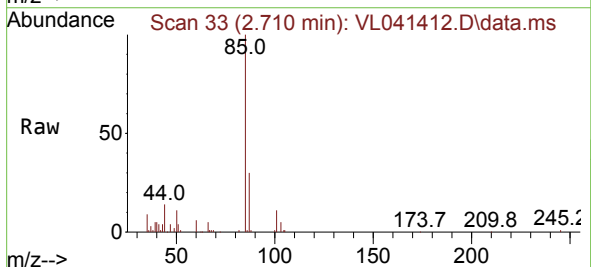
Instrument :
 MSVOA_L
 ClientSampleId :

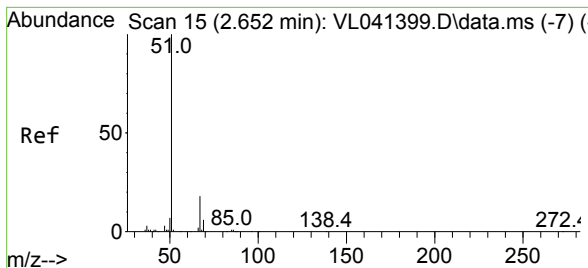
Tgt Ion: 49 Resp: 976357
 Ion Ratio Lower Upper
 49 100
 128 46.8 23.8 71.4
 130 60.8 30.8 92.4



#2
 Dichlorodifluoromethane
 Concen: 0.273 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.003 min
 Lab File: VL041412.D
 Acq: 26 Jul 2024 8:43

Tgt Ion: 85 Resp: 45911
 Ion Ratio Lower Upper
 85 100
 87 30.0 26.0 39.0





#3

Chlorodifluoromethane

Concen: 0.538 ppbv

RT: 2.655 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Instrument :

MSVOA_L

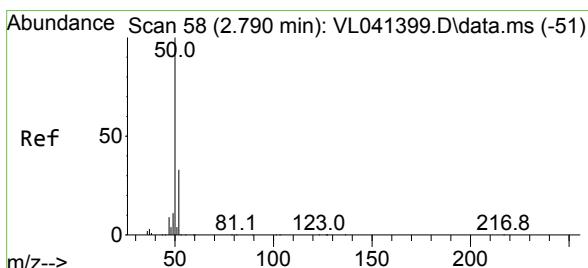
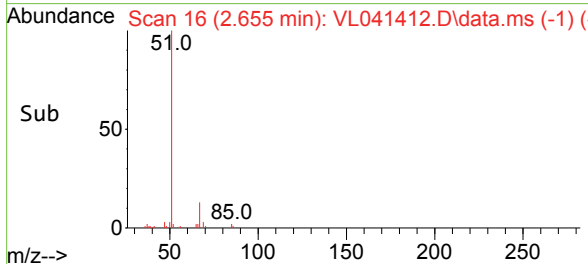
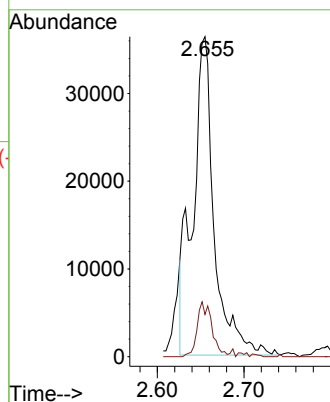
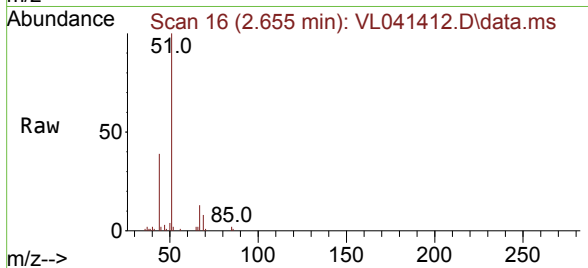
ClientSampleId :

Tgt Ion: 51 Resp: 62573

Ion Ratio Lower Upper

51 100

67 12.9 14.5 21.7#



#4

Chloromethane

Concen: 0.600 ppbv

RT: 2.790 min Scan# 58

Delta R.T. 0.000 min

Lab File: VL041412.D

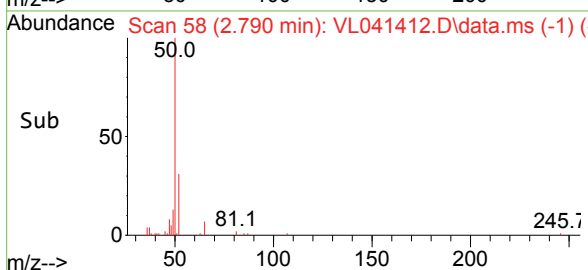
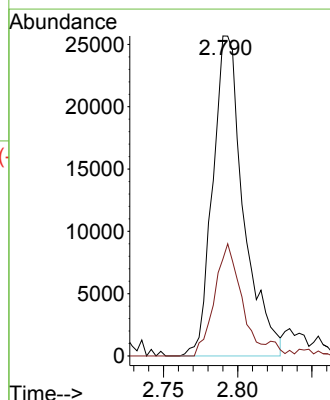
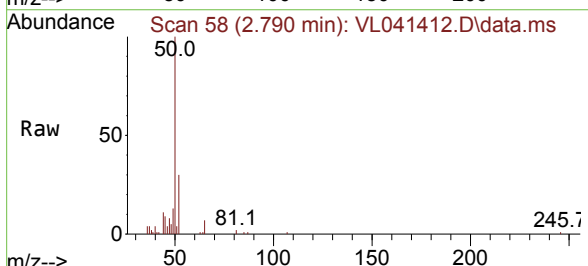
Acq: 26 Jul 2024 8:43

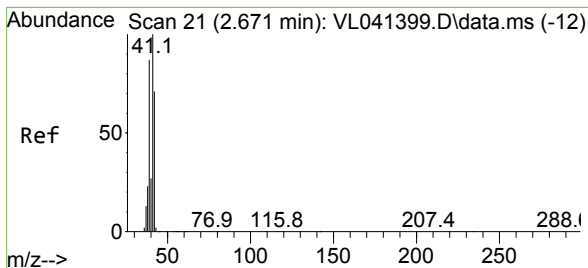
Tgt Ion: 50 Resp: 37103

Ion Ratio Lower Upper

50 100

52 30.5 26.1 39.1





#9

Propene

Concen: 0.496 ppbv

RT: 2.681 min Scan# 24

Delta R.T. 0.010 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Instrument :

MSVOA_L

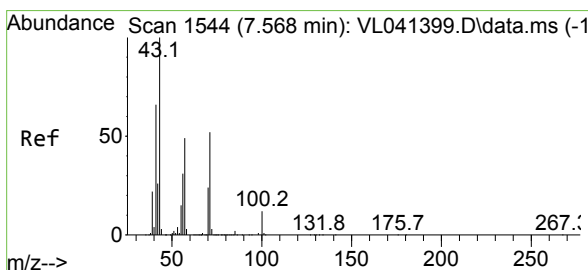
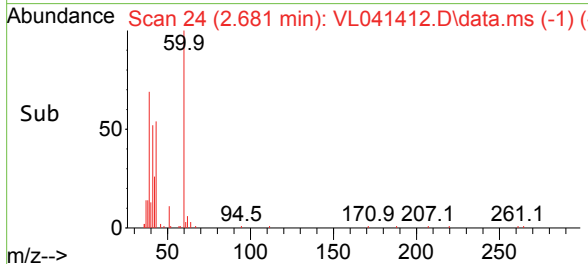
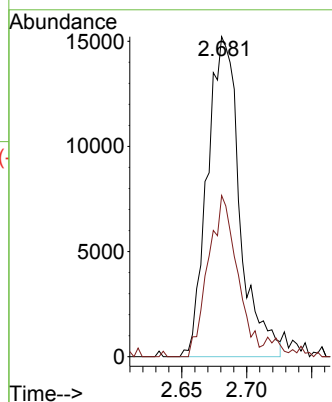
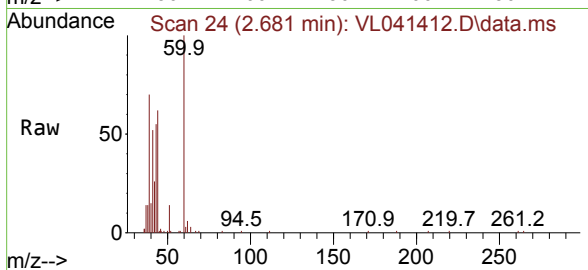
ClientSampleId :

Tgt Ion: 41 Resp: 26492

Ion Ratio Lower Upper

41 100

42 48.6 55.9 83.9#



#10

Heptane

Concen: 0.041 ppbv

RT: 7.558 min Scan# 1541

Delta R.T. -0.010 min

Lab File: VL041412.D

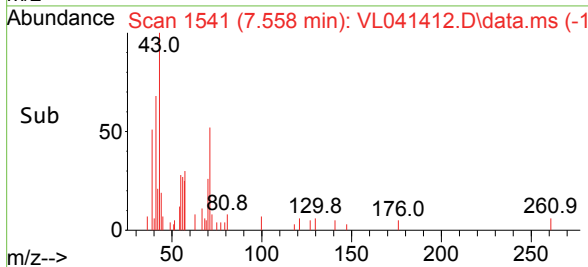
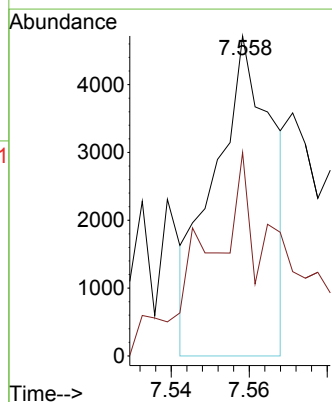
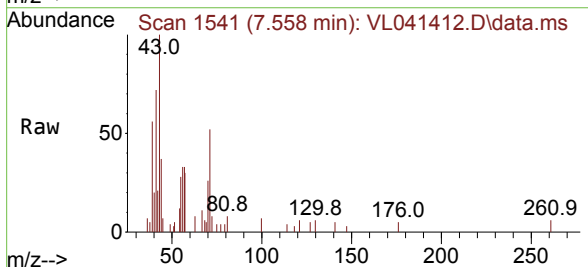
Acq: 26 Jul 2024 8:43

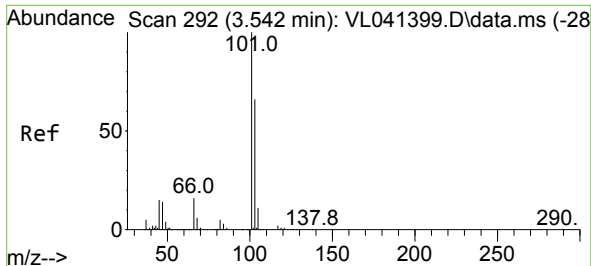
Tgt Ion: 43 Resp: 4915

Ion Ratio Lower Upper

43 100

57 89.8 40.5 60.7#

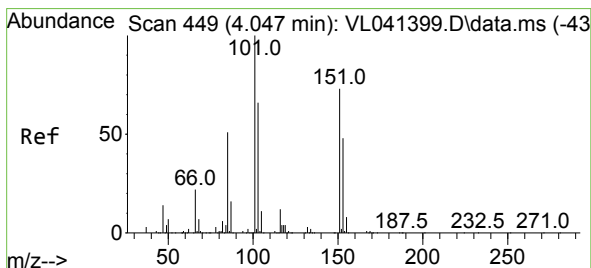
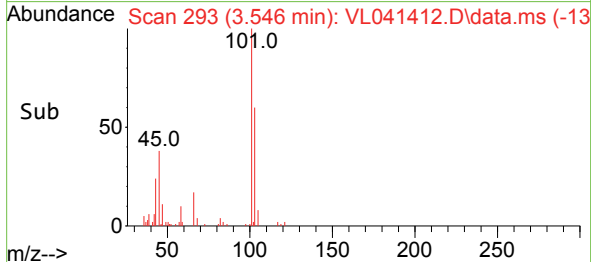
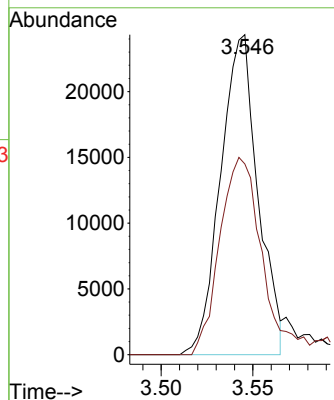
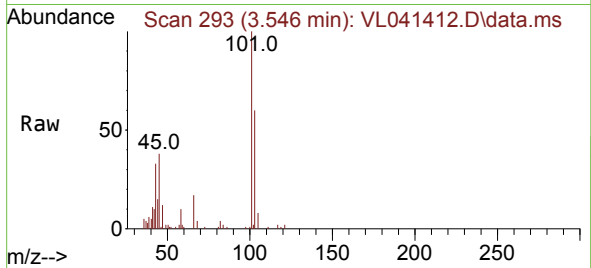




#11
Trichlorofluoromethane
Concen: 0.231 ppbv
RT: 3.546 min Scan# 292
Delta R.T. 0.003 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

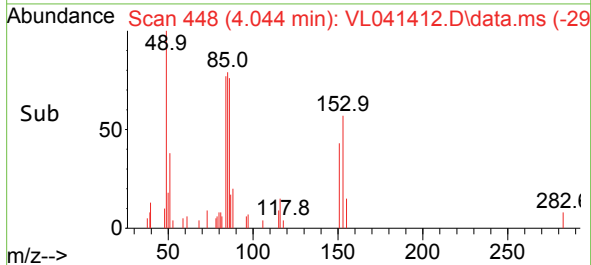
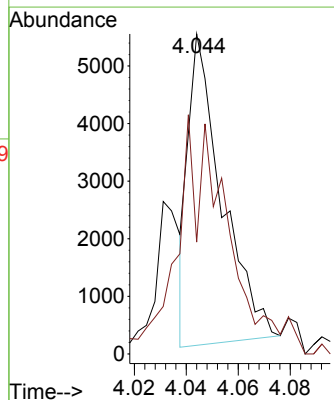
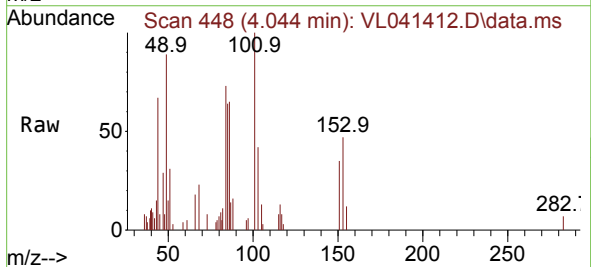
Instrument :
MSVOA_L
ClientSampleId :

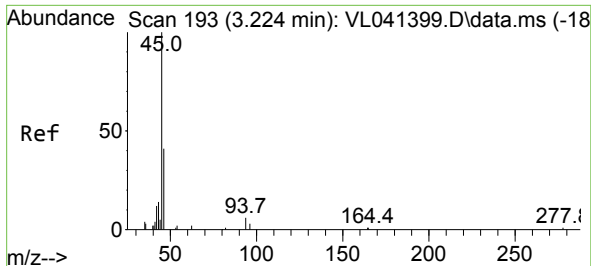
Tgt Ion:101 Resp: 34521
Ion Ratio Lower Upper
101 100
103 59.6 52.6 79.0



#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.045 ppbv
RT: 4.044 min Scan# 448
Delta R.T. -0.003 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

Tgt Ion:101 Resp: 4869
Ion Ratio Lower Upper
101 100
151 115.1 59.4 89.2#

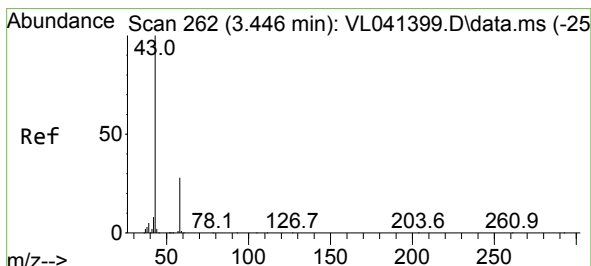
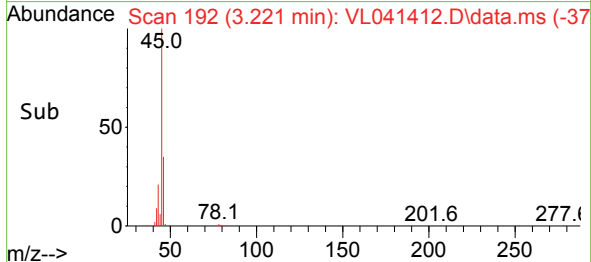
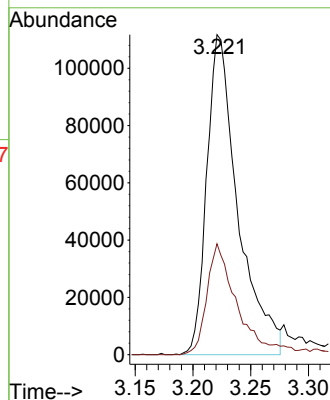
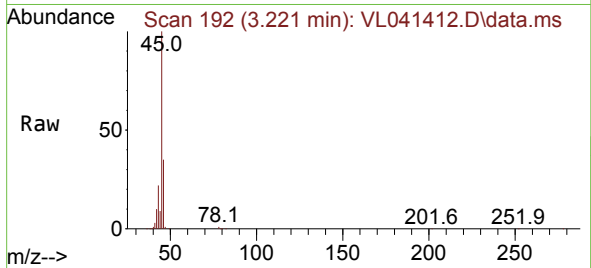




#13
Ethanol
Concen: 43.866 ppbv
RT: 3.221 min Scan# 193
Delta R.T. -0.003 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

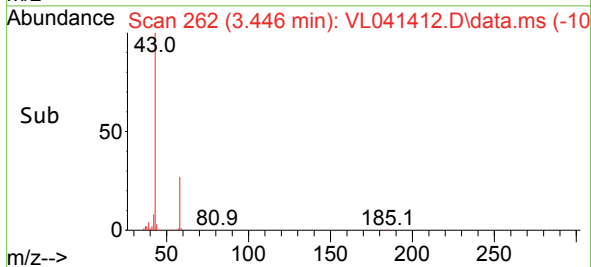
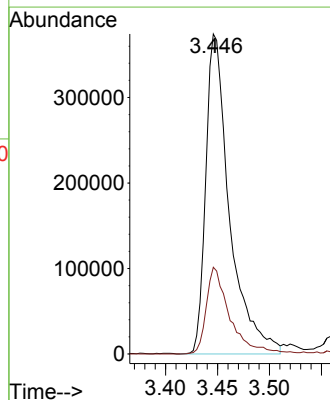
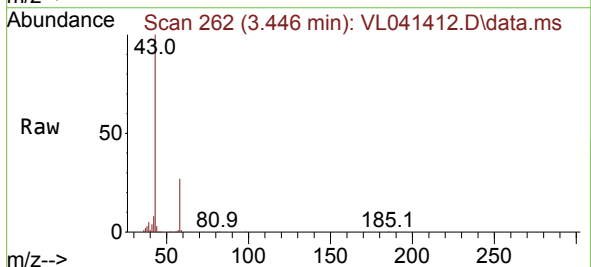
Instrument :
MSVOA_L
ClientSampleId :

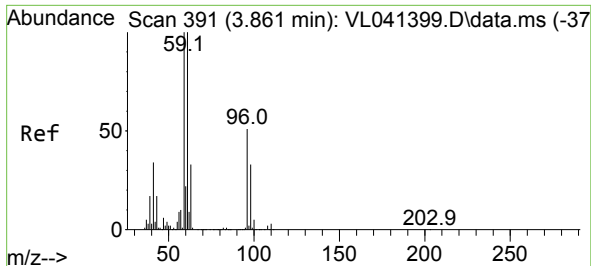
Tgt Ion: 45 Resp: 209340
Ion Ratio Lower Upper
45 100
46 35.8 13.4 53.4



#15
Acetone
Concen: 5.366 ppbv
RT: 3.446 min Scan# 262
Delta R.T. 0.000 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

Tgt Ion: 43 Resp: 595273
Ion Ratio Lower Upper
43 100
58 27.3 21.4 32.2





#17

tert-Butyl alcohol

Concen: 0.086 ppbv

RT: 3.883 min Scan# 391

Delta R.T. 0.023 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Instrument :

MSVOA_L

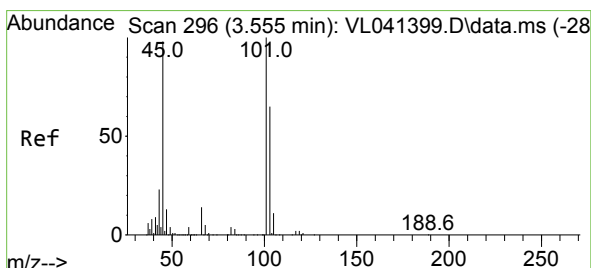
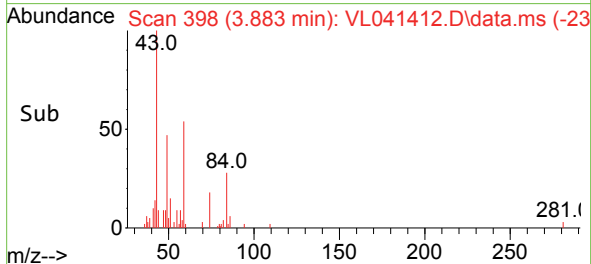
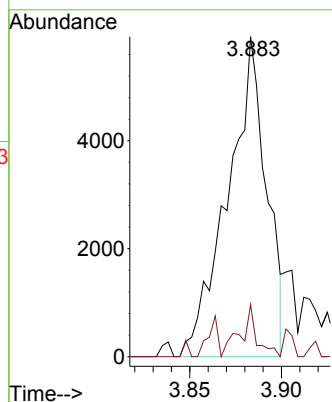
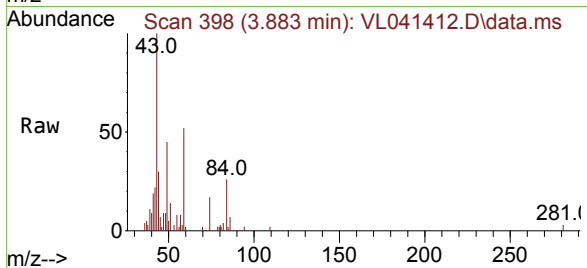
ClientSampleId :

Tgt Ion: 59 Resp: 8658

Ion Ratio Lower Upper

59 100

57 10.7 8.6 12.8



#19

Isopropyl Alcohol

Concen: 2.450 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.010 min

Lab File: VL041412.D

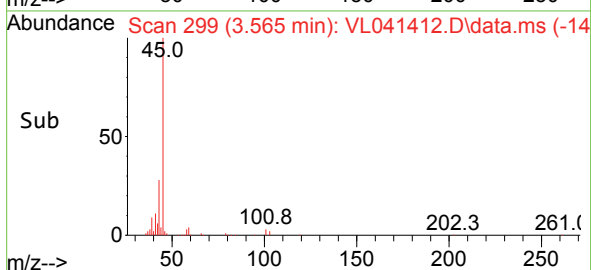
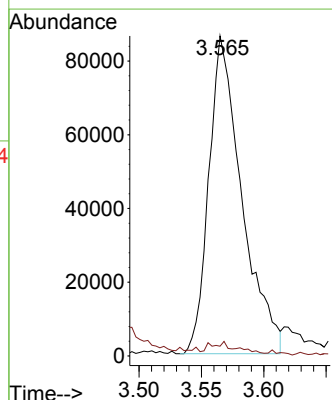
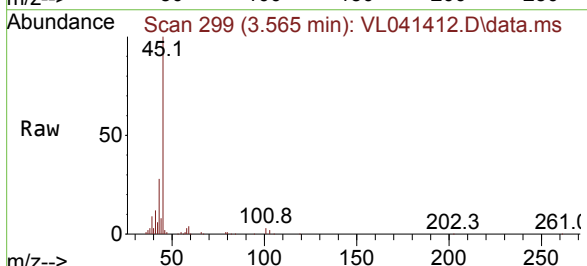
Acq: 26 Jul 2024 8:43

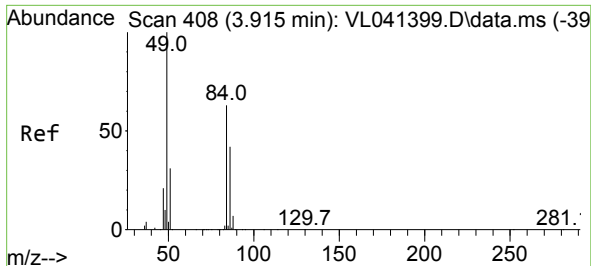
Tgt Ion: 45 Resp: 158887

Ion Ratio Lower Upper

45 100

58 4.9 1.9 2.9#





#20

Methylene Chloride

Concen: 31.576 ppbv

RT: 3.912 min Scan# 407

Delta R.T. -0.003 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 84 Resp: 1306217

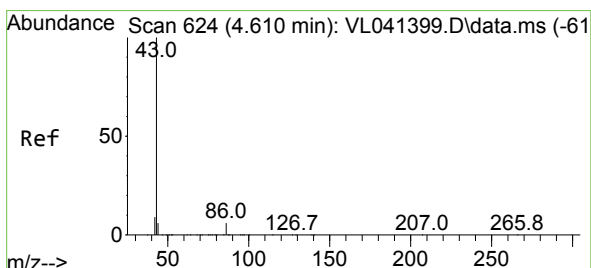
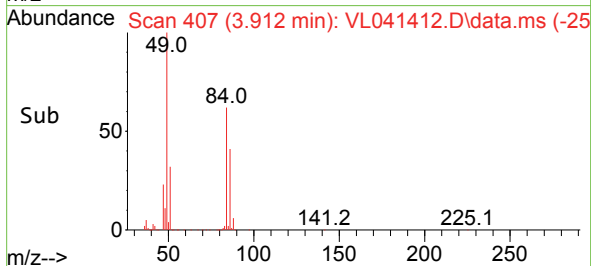
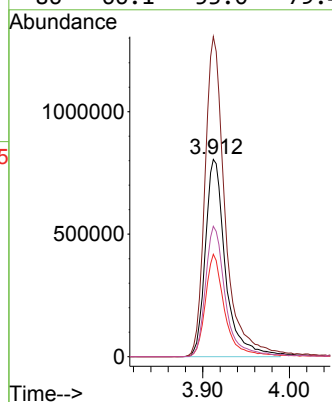
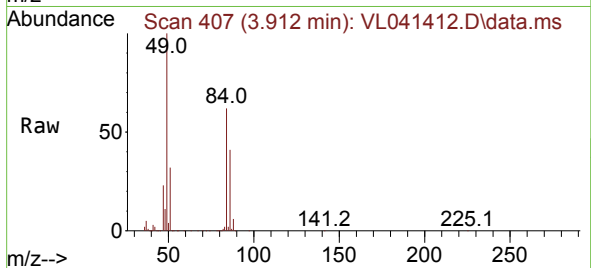
Ion Ratio Lower Upper

84 100

49 162.2 126.6 190.0

51 51.8 38.6 58.0

86 66.1 53.0 79.4



#23

Vinyl Acetate

Concen: 0.120 ppbv

RT: 4.600 min Scan# 621

Delta R.T. -0.010 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Tgt Ion: 43 Resp: 10127

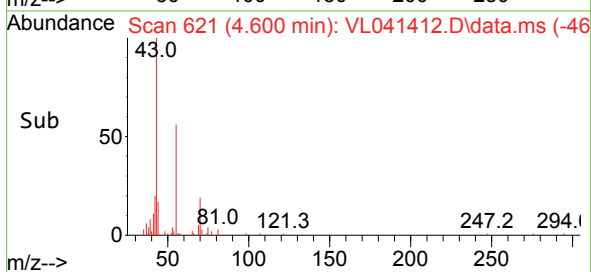
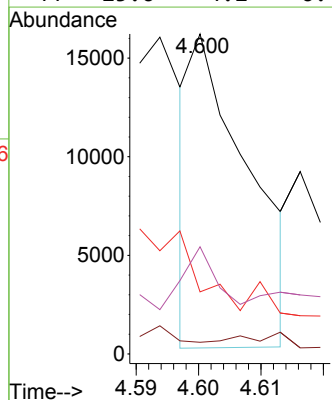
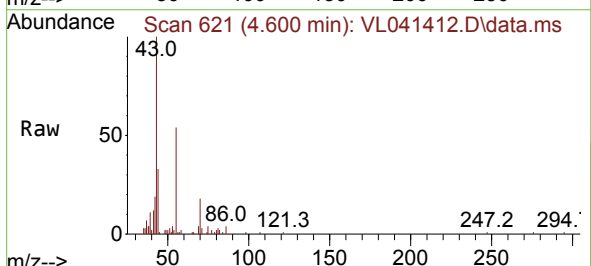
Ion Ratio Lower Upper

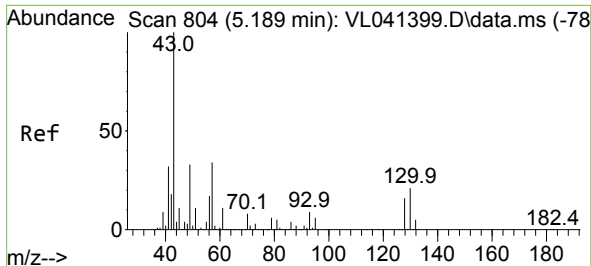
43 100

86 0.0 4.6 6.8#

42 11.9 7.9 11.9#

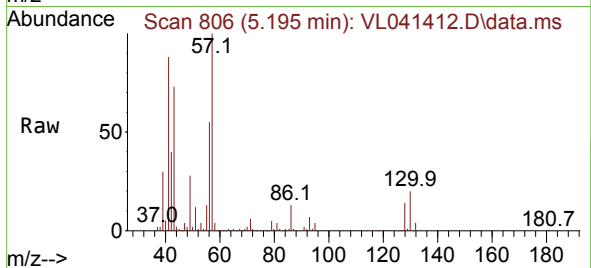
44 25.6 4.2 6.4#



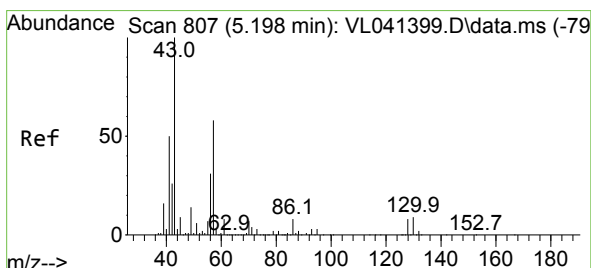
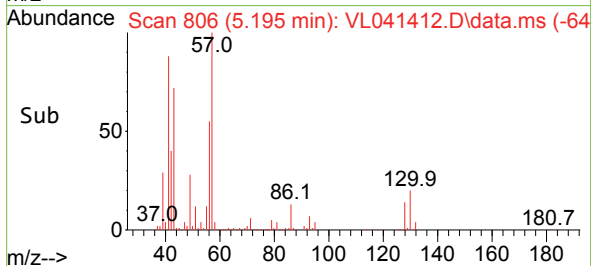
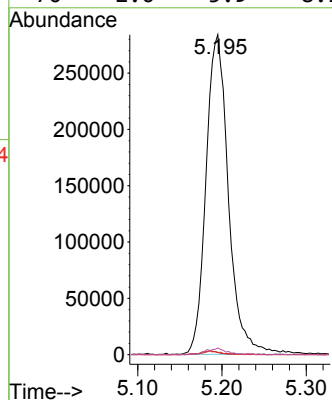


#25
Ethyl Acetate
Concen: 2.382 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.006 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

Instrument :
MSVOA_L
ClientSampleId :

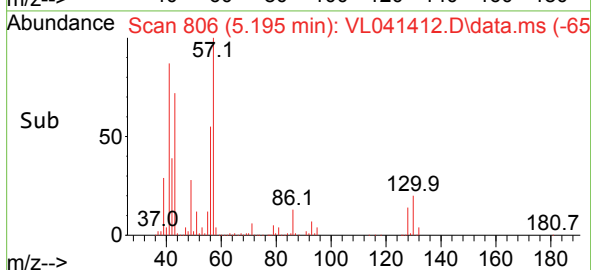
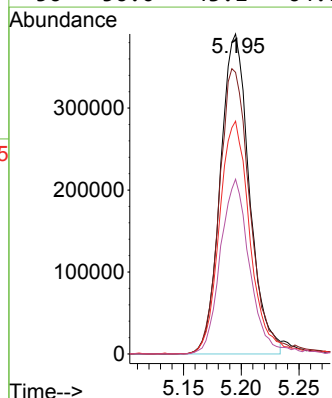
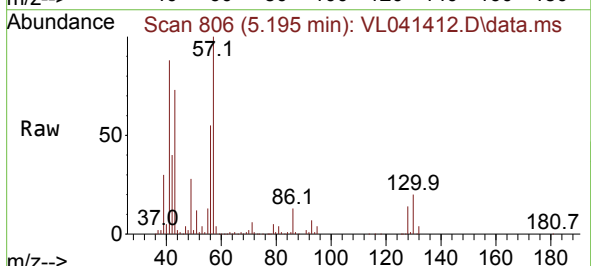


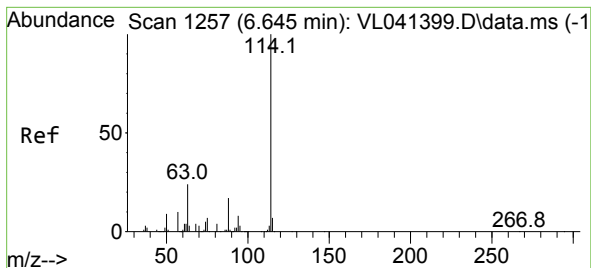
Tgt Ion: 43	Resp: 524989
Ion Ratio	Lower Upper
43 100	
45 1.2	8.5 12.7#
61 1.0	8.0 12.0#
70 2.0	5.9 8.9#



#26
Hexane
Concen: 7.458 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.003 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

Tgt	Ion: 57	Resp:	681833
Ion	Ratio	Lower	Upper
57	100		
41	96.5	74.0	111.0
43	78.2	193.6	290.4#
56	56.0	43.1	64.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.636 min Scan# 1

Delta R.T. -0.010 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Instrument :

MSVOA_L

ClientSampleId :

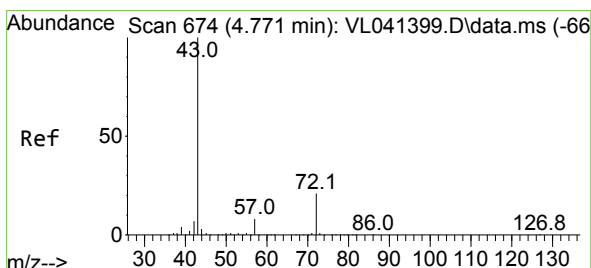
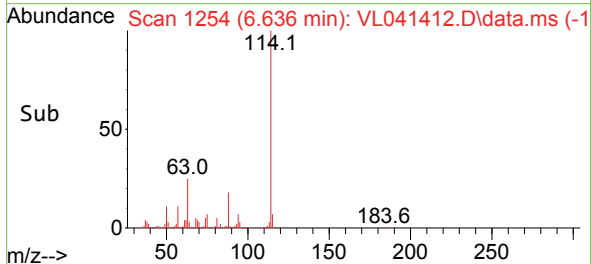
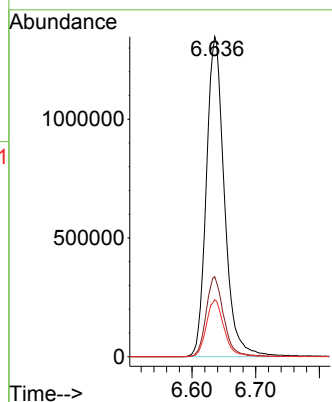
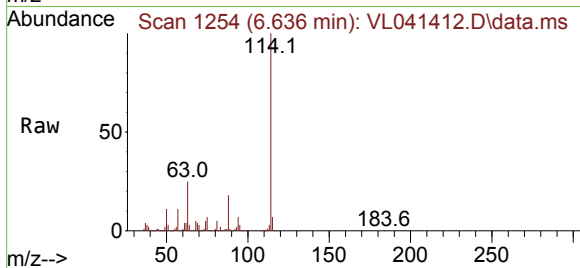
Tgt Ion:114 Resp: 2652465

Ion Ratio Lower Upper

114 100

63 24.6 20.3 30.5

88 17.7 14.3 21.5



#34

2-Butanone

Concen: 0.284 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.006 min

Lab File: VL041412.D

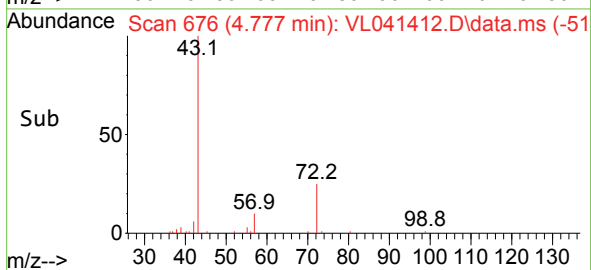
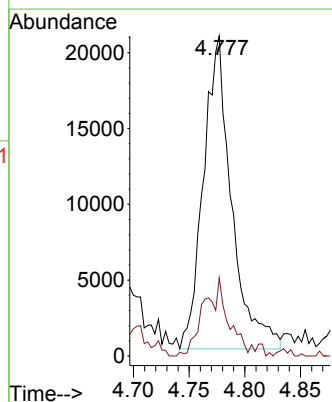
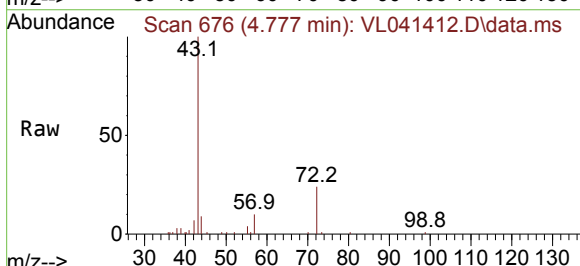
Acq: 26 Jul 2024 8:43

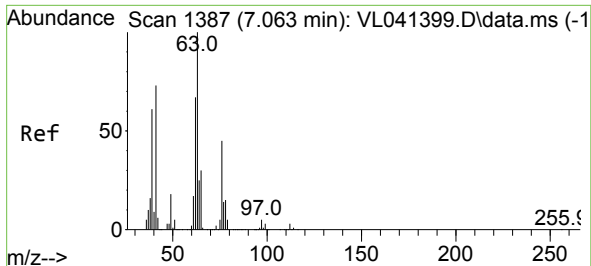
Tgt Ion: 43 Resp: 36383

Ion Ratio Lower Upper

43 100

72 23.9 17.3 25.9





#39

1,2-Dichloropropane

Concen: 8.643 ppbv

RT: 6.636 min Scan# 1

Delta R.T. -0.428 min

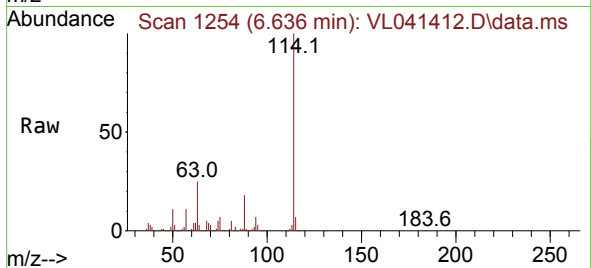
Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

Instrument :

MSVOA_L

ClientSampleId :



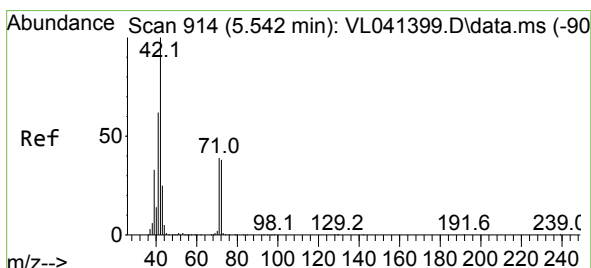
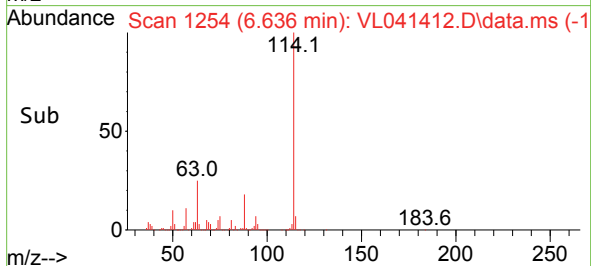
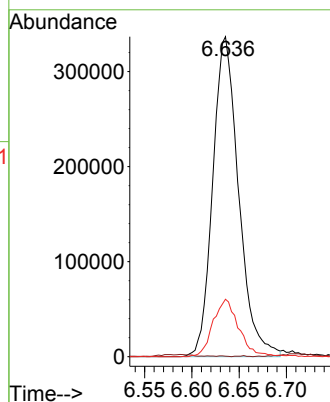
Tgt Ion: 63 Resp: 641324

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 18.0 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.140 ppbv

RT: 5.536 min Scan# 912

Delta R.T. -0.006 min

Lab File: VL041412.D

Acq: 26 Jul 2024 8:43

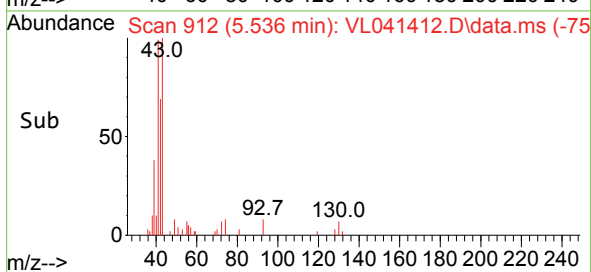
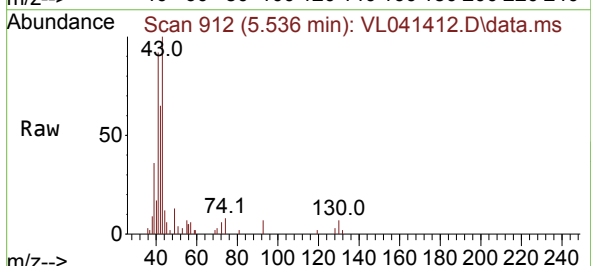
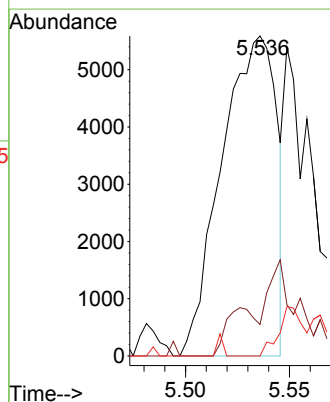
Tgt Ion: 42 Resp: 10262

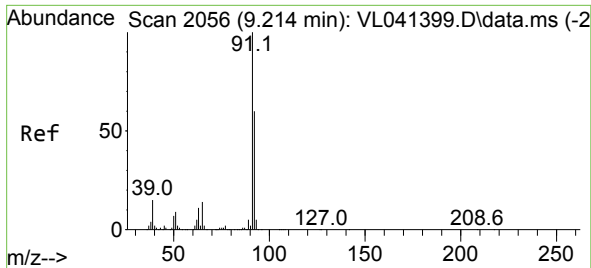
Ion Ratio Lower Upper

42 100

72 29.8 31.2 46.8#

71 0.0 30.5 45.7#

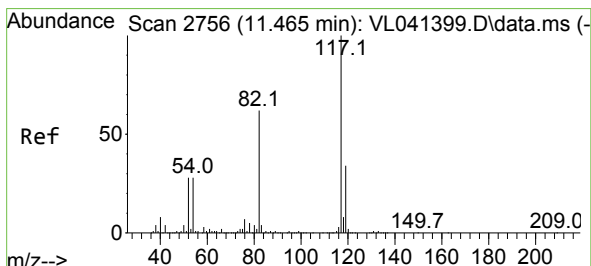
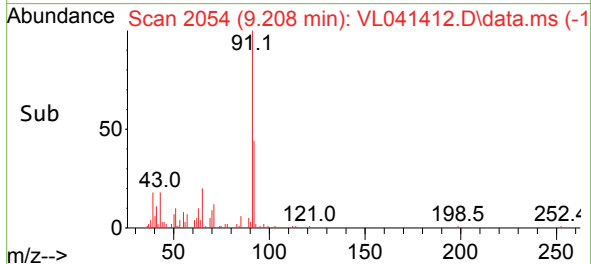
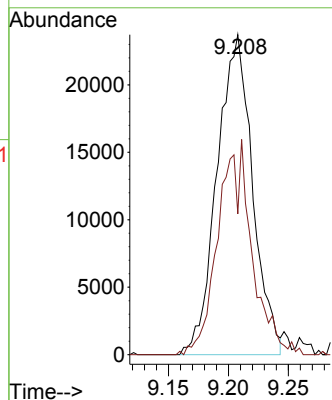
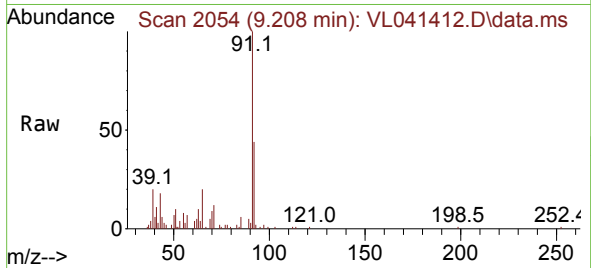




#53
Toluene
Concen: 0.226 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.006 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

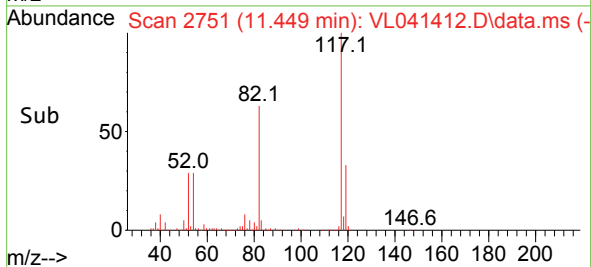
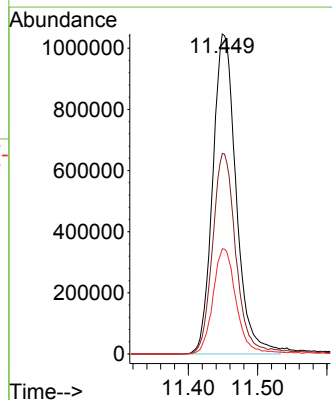
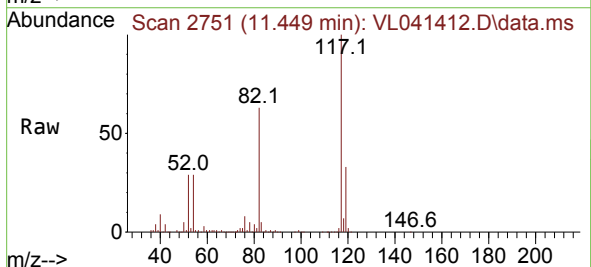
Instrument :
MSVOA_L
ClientSampleId :

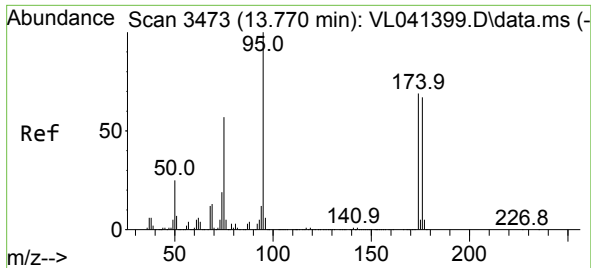
Tgt Ion: 91 Resp: 48851
Ion Ratio Lower Upper
91 100
92 63.7 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.016 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

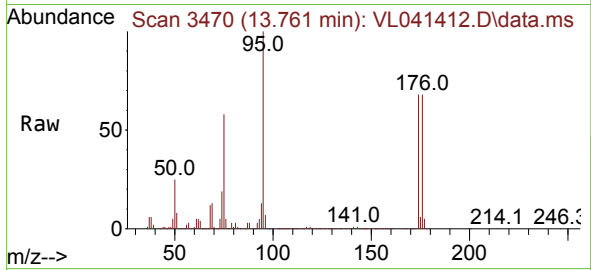
Tgt Ion: 117 Resp: 2455657
Ion Ratio Lower Upper
117 100
82 63.7 51.0 76.6
119 33.2 45.2 67.8#





#68
1-Bromo-4-Fluorobenzene
Concen: 9.535 ppbv
RT: 13.761 min Scan# 34
Delta R.T. -0.010 min
Lab File: VL041412.D
Acq: 26 Jul 2024 8:43

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 95 Resp: 1801962
Ion Ratio Lower Upper
95 100
174 73.4 56.3 84.5
175 5.2 4.0 6.0

