

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020724\
 Data File : VL041039.D
 Acq On : 7 Feb 2024 14:00
 Operator : SY/MD
 Sample : P1392-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Feb 08 02:43:37 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Feb 08 02:04:13 2024
 Response via : Initial Calibration

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

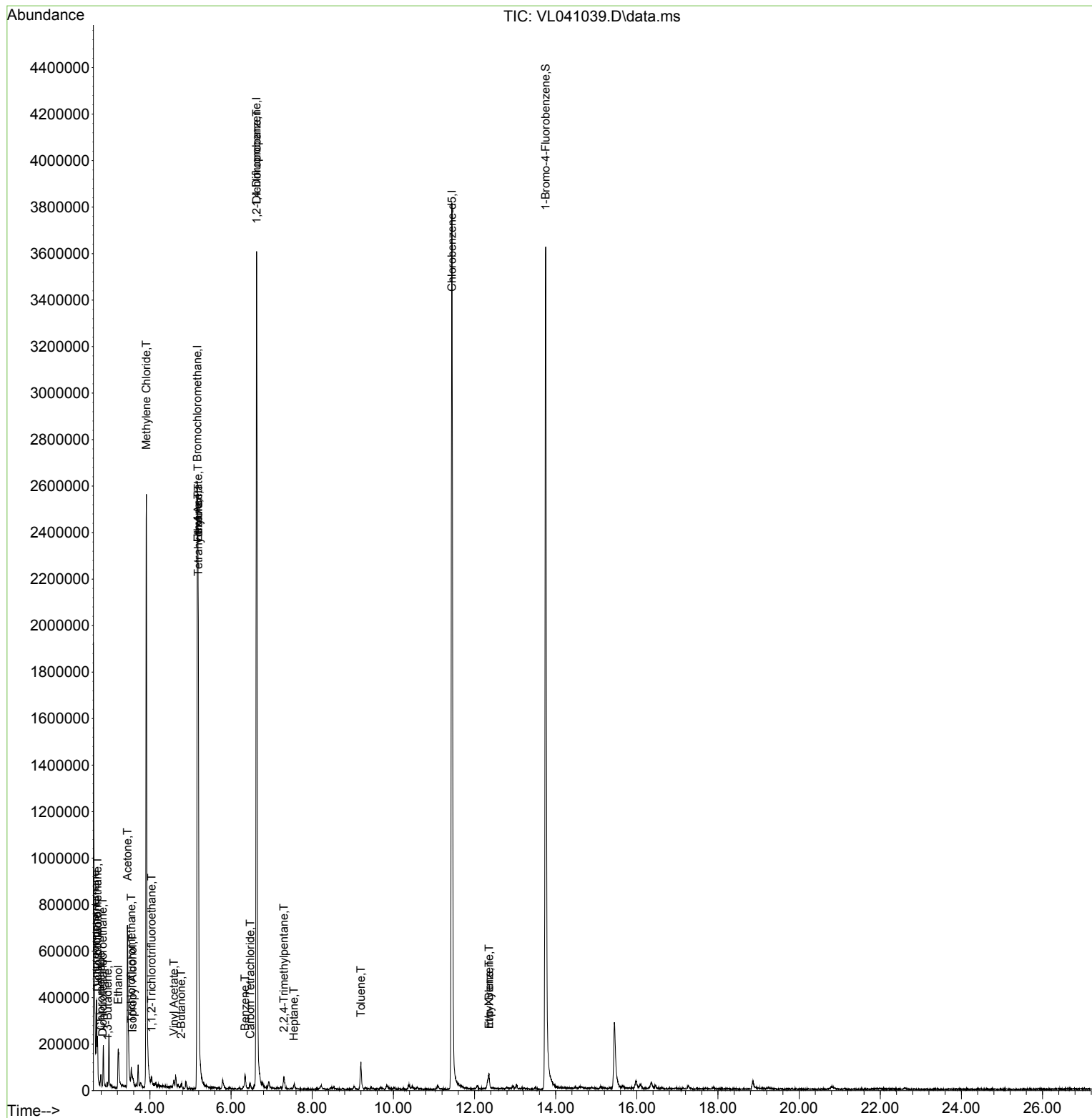
Internal Standards						
1) Bromochloromethane	5.169	49	1066970	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2669493	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2388347	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1879284	10.418	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 104.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	115208	0.489	ppbv	99
3) Chlorodifluoromethane	2.652	51	65675	0.366	ppbv #	87
4) Chloromethane	2.790	50	34865	0.518	ppbv	95
8) Dichlorotetrafluoroethane	2.835	85	3655	0.021	ppbv	96
9) Propene	2.684	41	65054	1.105	ppbv #	70
10) Heptane	7.549	43	3682	0.025	ppbv #	1
11) Trichlorofluoromethane	3.539	101	40193	0.212	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.041	101	5319	0.039	ppbv #	29
13) Ethanol	3.221	45	185632	13.232	ppbv	100
15) Acetone	3.446	43	708760	5.195	ppbv	98
16) 1,3-Butadiene	2.957	39	2155	0.033	ppbv #	10
19) Isopropyl Alcohol	3.571	45	21402	0.271	ppbv #	92
20) Methylene Chloride	3.912	84	871768	16.604	ppbv	96
23) Vinyl Acetate	4.594	43	13582	0.097	ppbv #	53
25) Ethyl Acetate	5.189	43	601864	2.433	ppbv #	90
26) Hexane	5.189	57	508098	4.818	ppbv #	57
34) 2-Butanone	4.771	43	21156	0.166	ppbv #	89
35) Carbon Tetrachloride	6.471	117	8323	0.047	ppbv #	71
36) Benzene	6.346	78	42456	0.193	ppbv	95
39) 1,2-Dichloropropane	6.632	63	682635	7.860	ppbv #	24
41) Tetrahydrofuran	5.192	42	225561	2.612	ppbv #	50
44) 2,2,4-Trimethylpentane	7.301	57	35464	0.096	ppbv #	71
53) Toluene	9.201	91	70721	0.293	ppbv	95
58) Ethyl Benzene	12.359	91	20220	0.063	ppbv	92
59) m/p-Xylene	12.359	91	20220	0.072	ppbv #	32

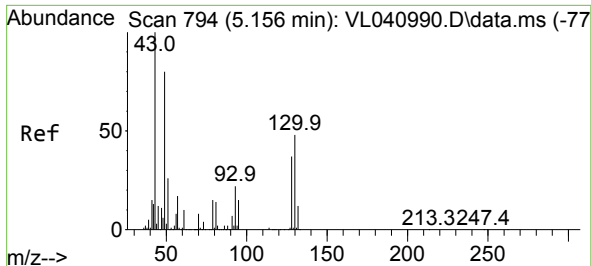
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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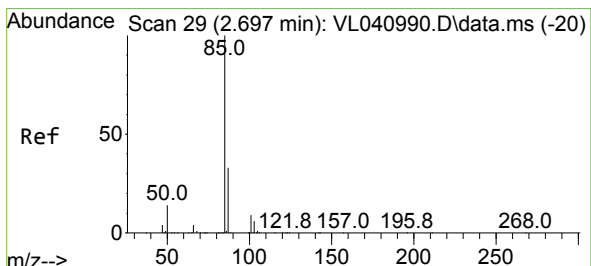
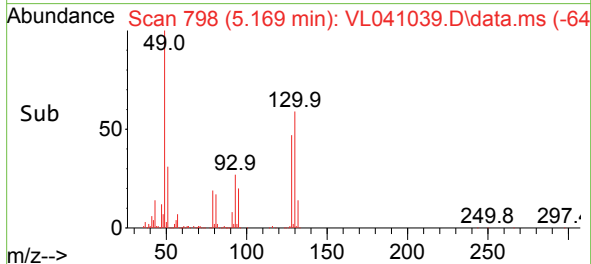
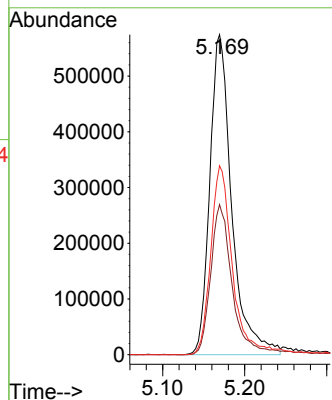
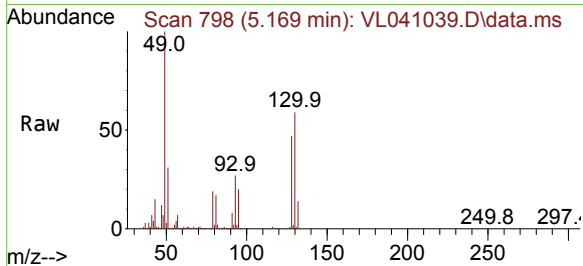


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 794
 Delta R.T. 0.003 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

Instrument : MSVOA_L
 ClientSampleId : OA1

Tgt Ion: 49 Resp: 1066970

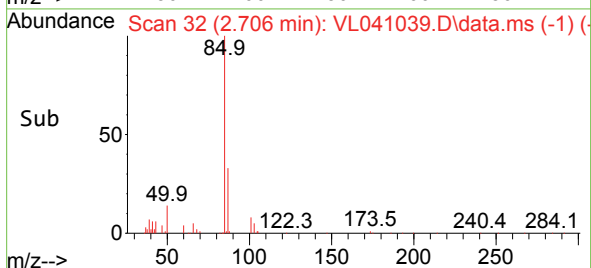
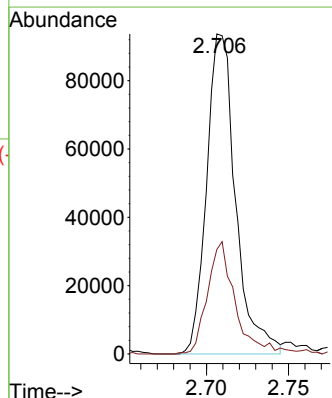
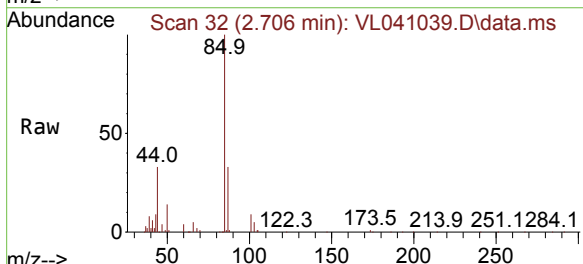
Ion	Ratio	Lower	Upper
49	100		
128	46.9	23.9	71.7
130	60.4	31.1	93.5

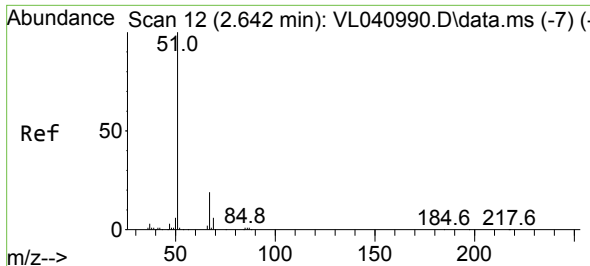


#2
 Dichlorodifluoromethane
 Concen: 0.489 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. 0.003 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

Tgt Ion: 85 Resp: 115208

Ion	Ratio	Lower	Upper
85	100		
87	32.2	26.3	39.5

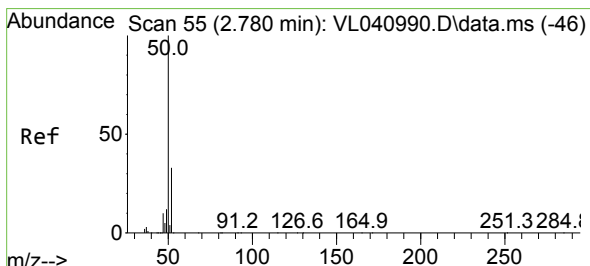
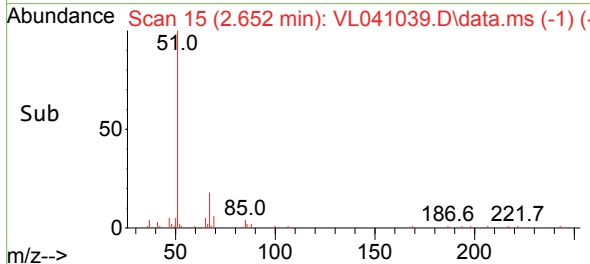
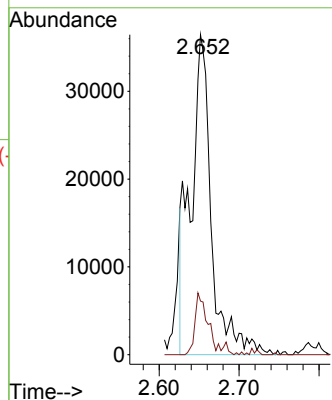
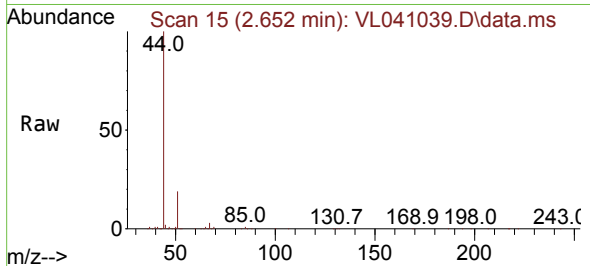




#3
Chlorodifluoromethane
Concen: 0.366 ppbv
RT: 2.652 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

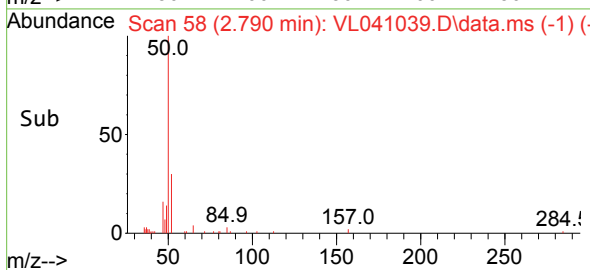
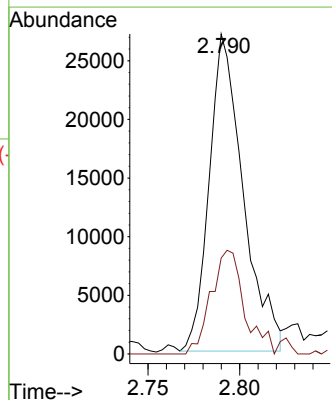
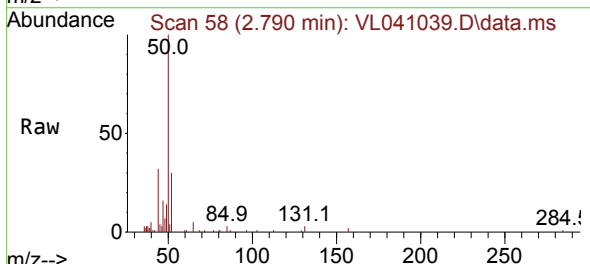
Instrument :
MSVOA_L
ClientSampleId :
OA1

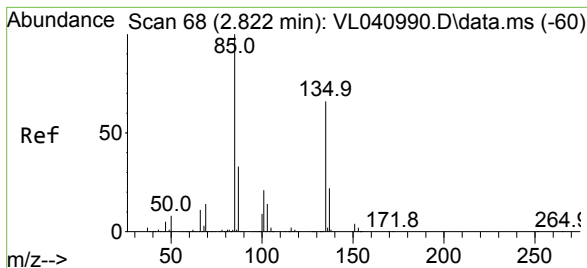
Tgt Ion: 51 Resp: 65675
Ion Ratio Lower Upper
51 100
67 12.9 14.8 22.2#



#4
Chloromethane
Concen: 0.518 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.003 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

Tgt Ion: 50 Resp: 34865
Ion Ratio Lower Upper
50 100
52 30.2 26.2 39.4

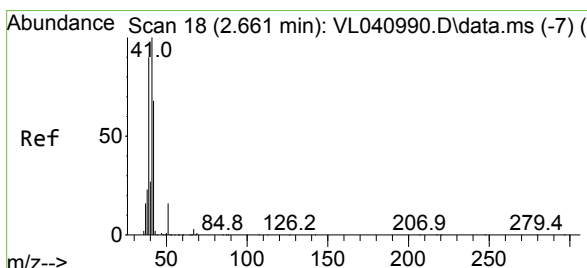
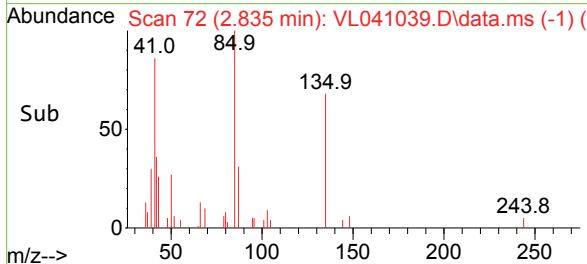
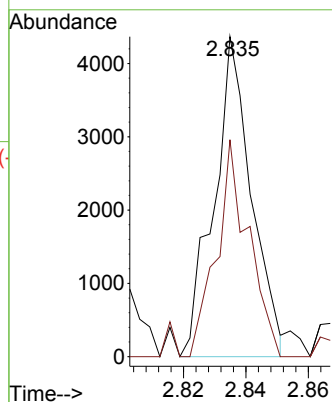
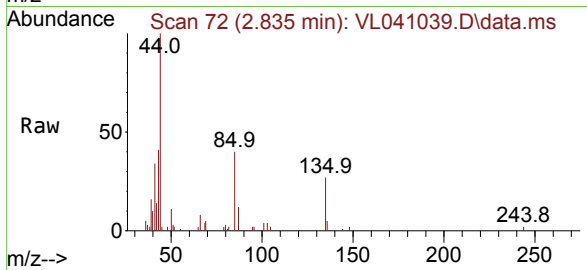




#8
 Dichlorotetrafluoroethane
 Concen: 0.021 ppbv
 RT: 2.835 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

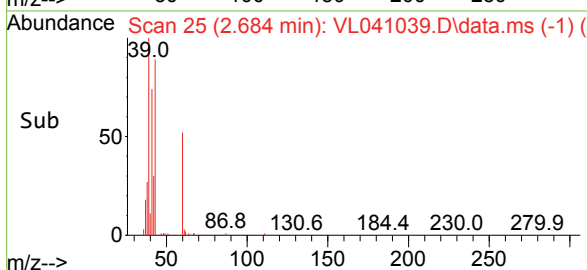
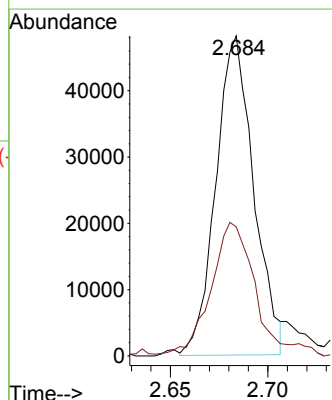
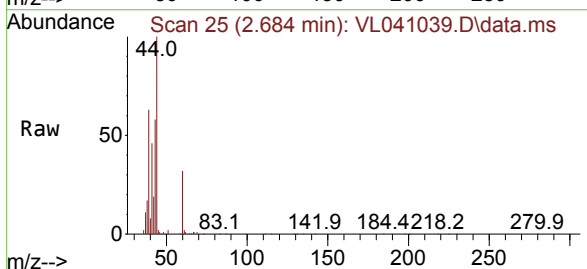
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

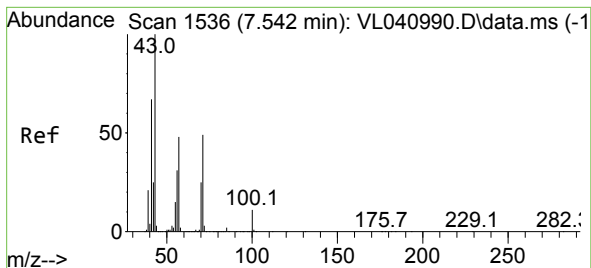
Tgt Ion: 85 Resp: 3655
 Ion Ratio Lower Upper
 85 100
 135 65.4 55.0 82.6



#9
 Propene
 Concen: 1.105 ppbv
 RT: 2.684 min Scan# 25
 Delta R.T. 0.016 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

Tgt Ion: 41 Resp: 65054
 Ion Ratio Lower Upper
 41 100
 42 48.4 59.0 88.4#





#10

Heptane

Concen: 0.025 ppbv

RT: 7.549 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

Instrument :

MSVOA_L

ClientSampleId :

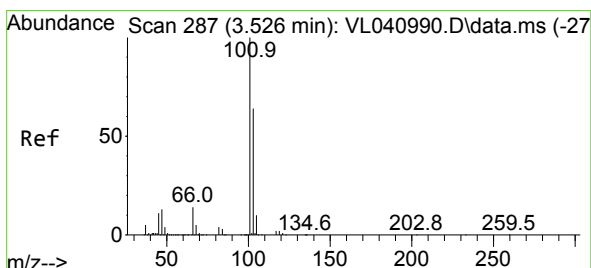
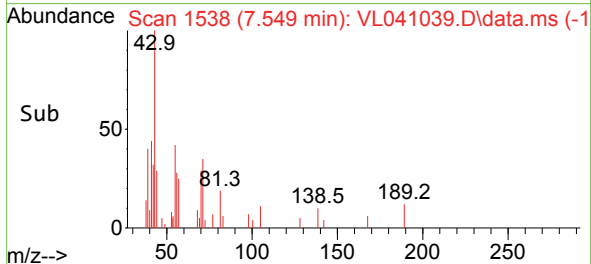
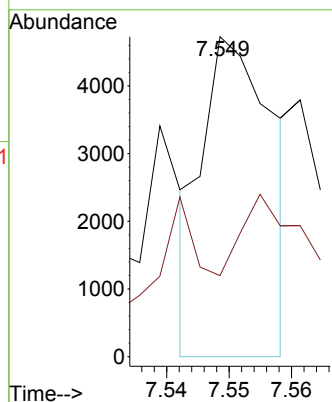
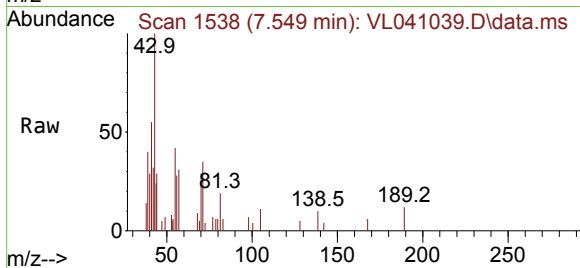
OA1

Tgt Ion: 43 Resp: 3682

Ion Ratio Lower Upper

43 100

57 127.8 39.4 59.2#



#11

Trichlorofluoromethane

Concen: 0.212 ppbv

RT: 3.539 min Scan# 291

Delta R.T. 0.006 min

Lab File: VL041039.D

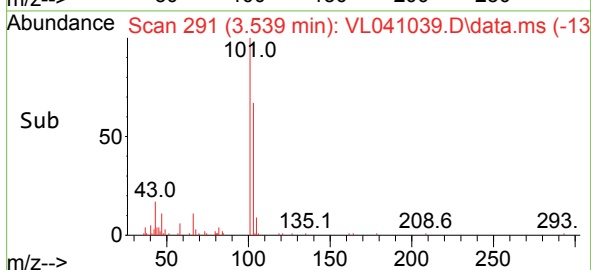
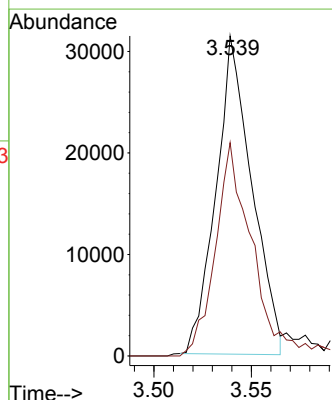
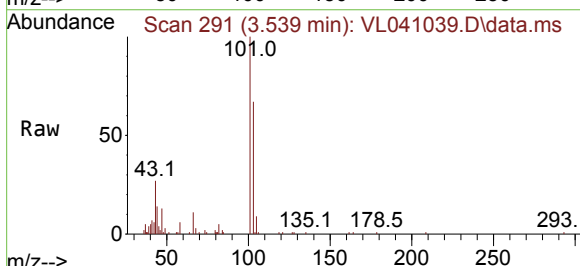
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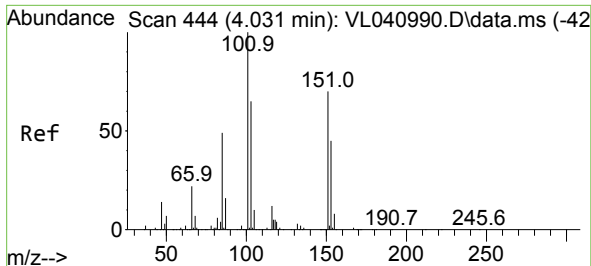
Tgt Ion:101 Resp: 40193

Ion Ratio Lower Upper

101 100

103 67.2 51.4 77.2

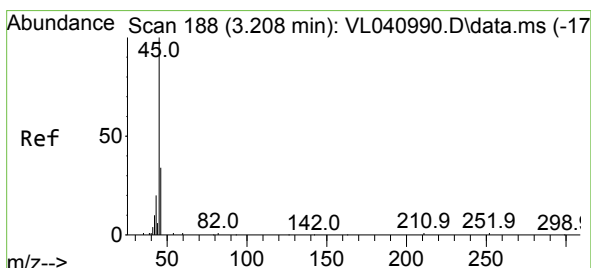
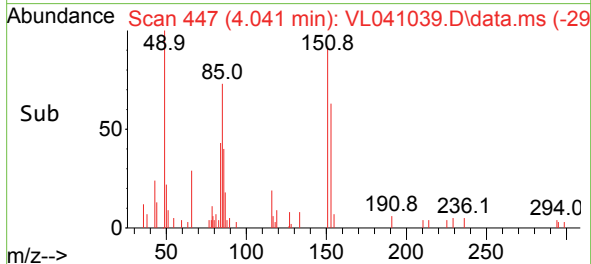
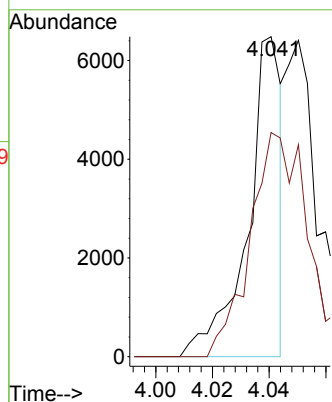
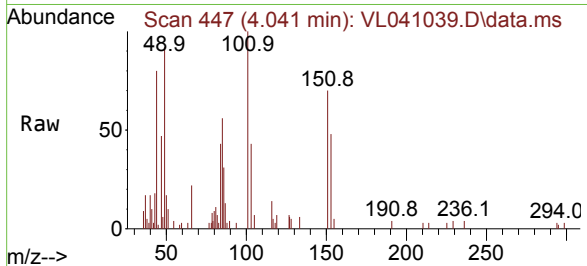




#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.039 ppbv
 RT: 4.041 min Scan# 444
 Delta R.T. 0.000 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

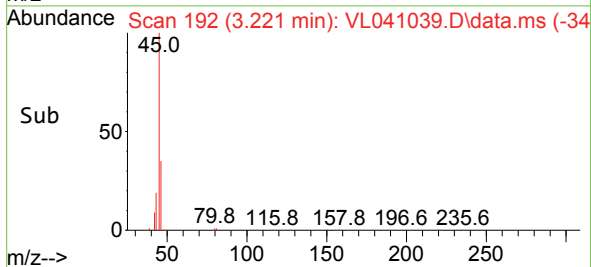
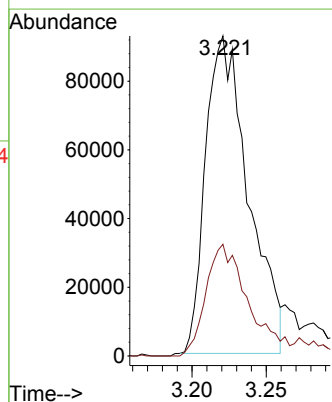
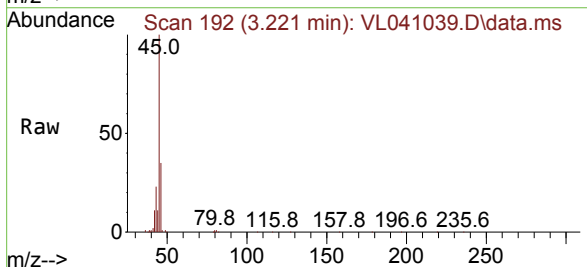
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

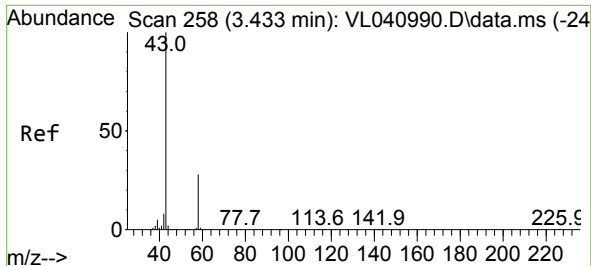
Tgt Ion:101 Resp: 5319
 Ion Ratio Lower Upper
 101 100
 151 129.2 56.6 85.0#



#13
 Ethanol
 Concen: 13.232 ppbv
 RT: 3.221 min Scan# 192
 Delta R.T. 0.006 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

Tgt Ion: 45 Resp: 185632
 Ion Ratio Lower Upper
 45 100
 46 40.7 16.2 64.8





#15

Acetone

Concen: 5.195 ppbv

RT: 3.446 min Scan# 2

Delta R.T. 0.006 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

Instrument :

MSVOA_L

ClientSampleId :

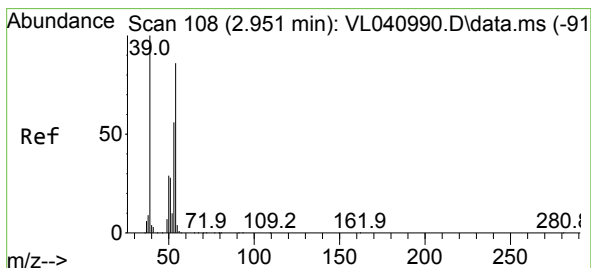
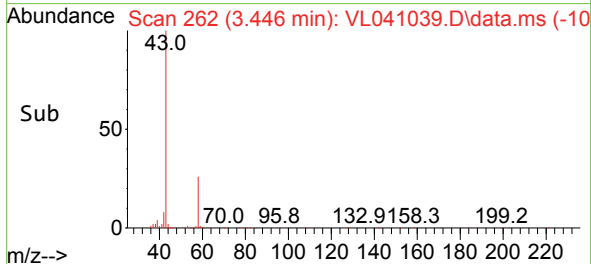
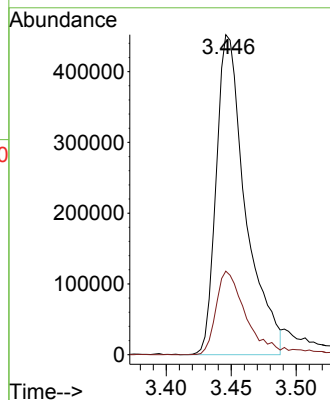
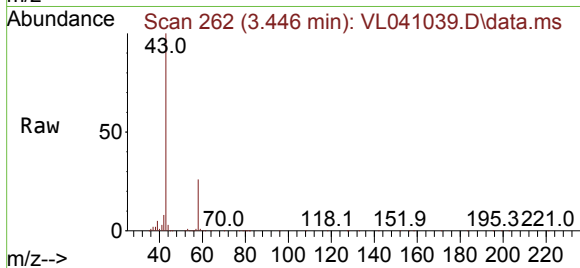
OA1

Tgt Ion: 43 Resp: 708760

Ion Ratio Lower Upper

43 100

58 28.6 22.2 33.2



#16

1,3-Butadiene

Concen: 0.033 ppbv

RT: 2.957 min Scan# 110

Delta R.T. 0.000 min

Lab File: VL041039.D

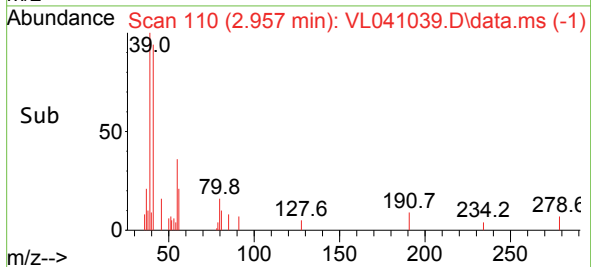
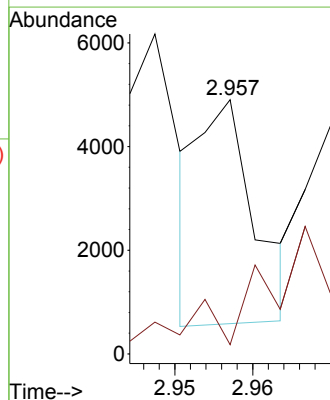
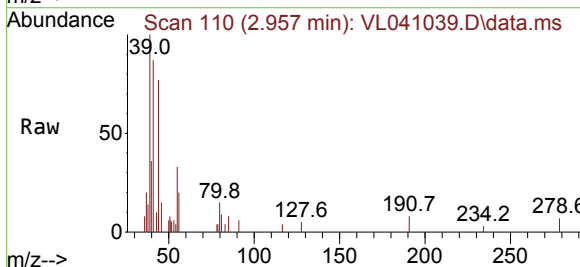
Acq: 7 Feb 2024 14:00

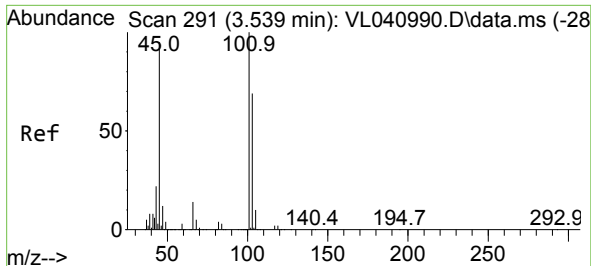
Tgt Ion: 39 Resp: 2155

Ion Ratio Lower Upper

39 100

54 0.0 62.7 94.1#





#19

Isopropyl Alcohol

Concen: 0.271 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.023 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

Instrument :

MSVOA_L

ClientSampleId :

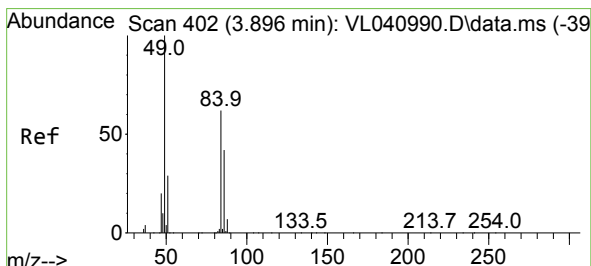
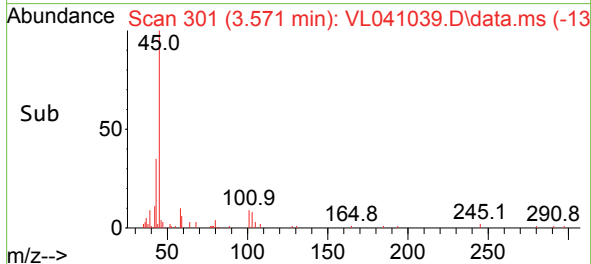
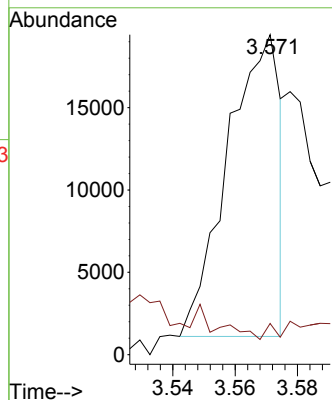
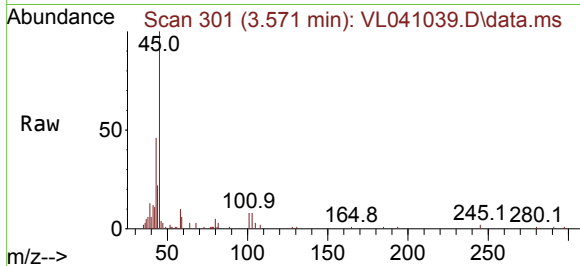
OA1

Tgt Ion: 45 Resp: 21402

Ion Ratio Lower Upper

45 100

58 0.0 2.2 3.4#



#20

Methylene Chloride

Concen: 16.604 ppbv

RT: 3.912 min Scan# 407

Delta R.T. 0.006 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

Tgt Ion: 84 Resp: 871768

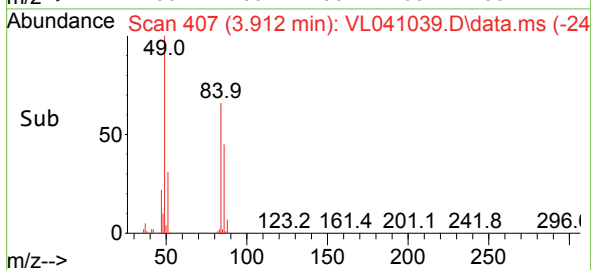
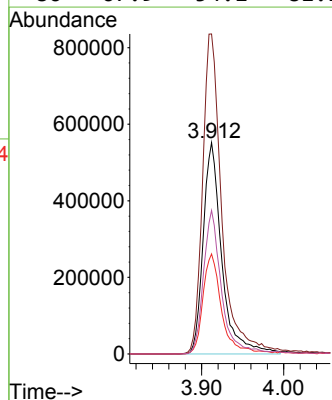
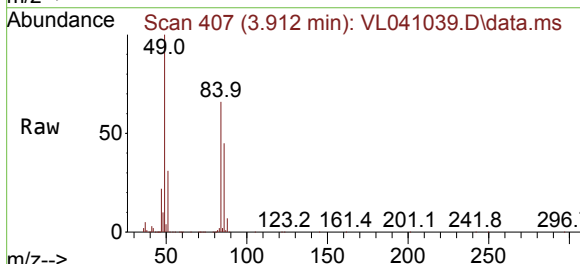
Ion Ratio Lower Upper

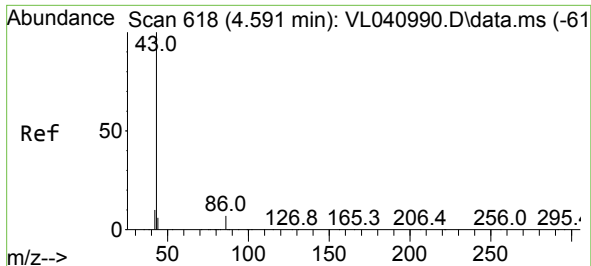
84 100

49 151.4 128.1 192.1

51 47.3 36.5 54.7

86 67.9 54.1 81.1



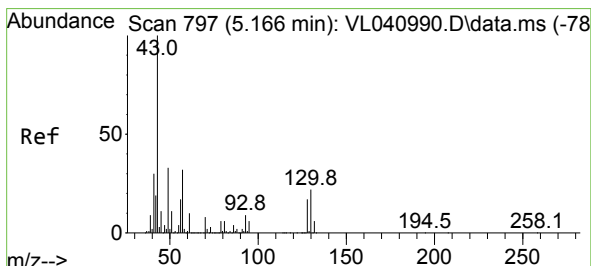
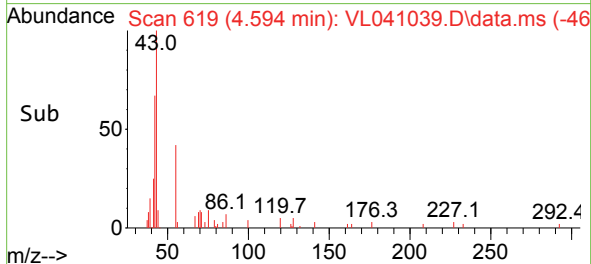
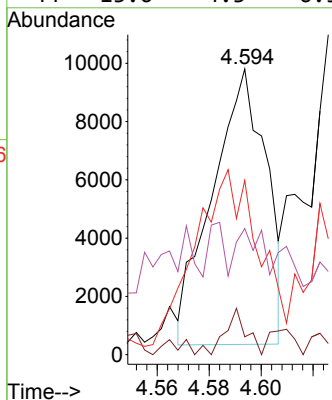
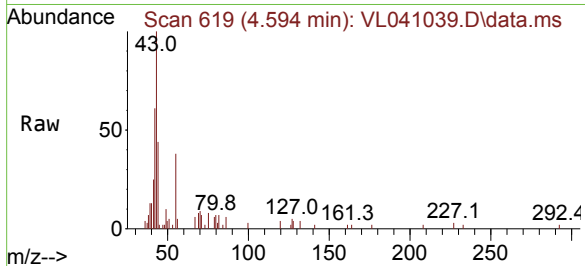


#23
 Vinyl Acetate
 Concen: 0.097 ppbv
 RT: 4.594 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 43 Resp: 13582

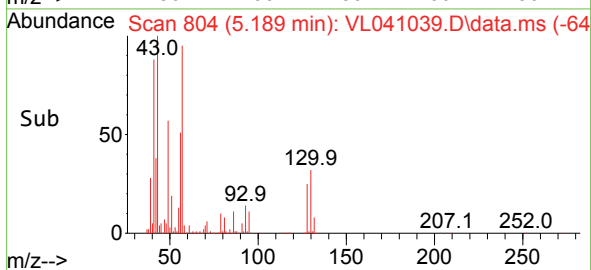
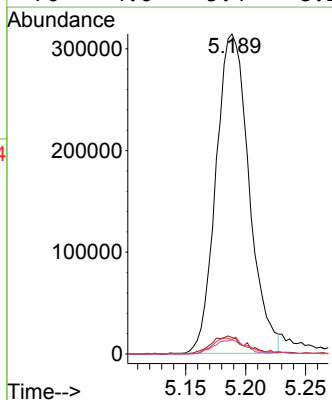
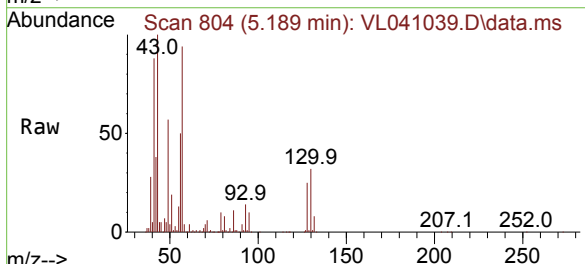
Ion	Ratio	Lower	Upper
43	100		
86	5.3	5.4	8.0#
42	42.7	8.6	13.0#
44	13.6	4.3	6.5#

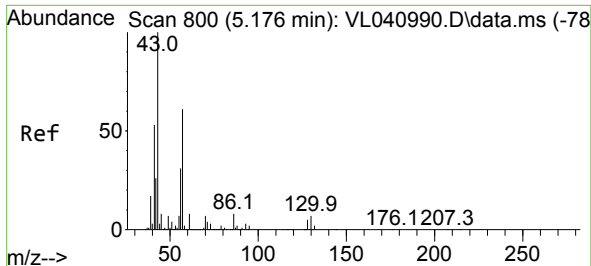


#25
 Ethyl Acetate
 Concen: 2.433 ppbv
 RT: 5.189 min Scan# 804
 Delta R.T. 0.010 min
 Lab File: VL041039.D
 Acq: 7 Feb 2024 14:00

Tgt Ion: 43 Resp: 601864

Ion	Ratio	Lower	Upper
43	100		
45	6.5	8.2	12.4#
61	5.6	7.9	11.9#
70	4.6	5.4	8.2#

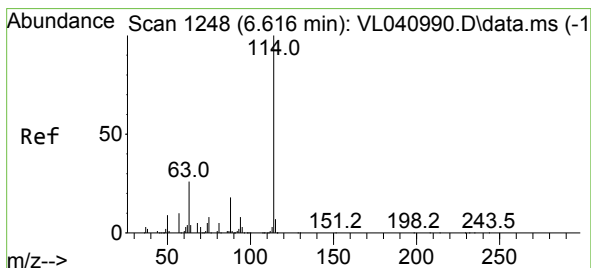
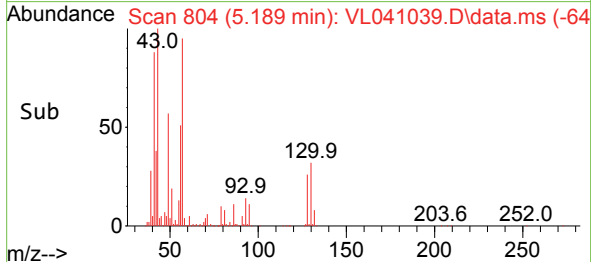
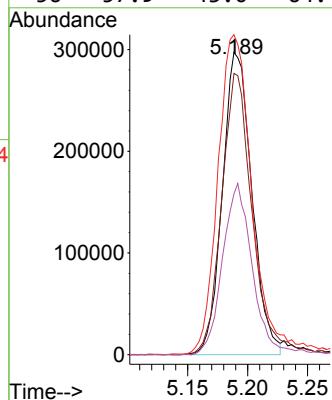
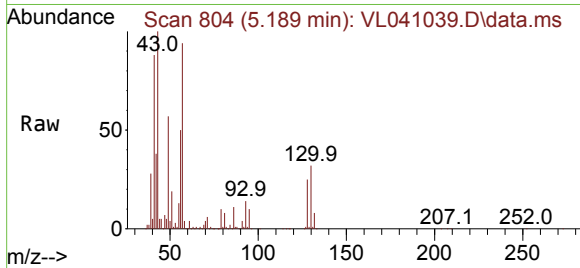




#26
Hexane
Concen: 4.818 ppbv
RT: 5.189 min Scan# 800
Delta R.T. 0.003 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

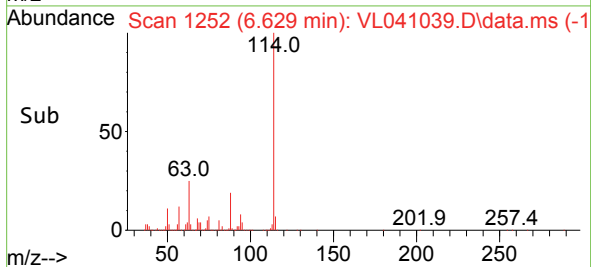
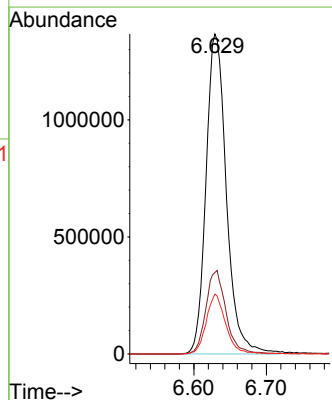
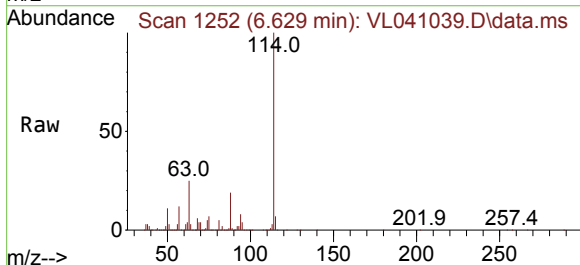
Instrument :
MSVOA_L
ClientSampleId :
OA1

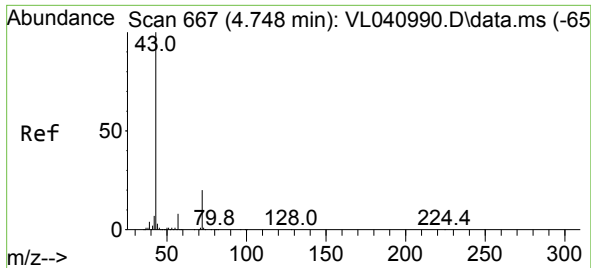
Tgt Ion: 57 Resp: 508098
Ion Ratio Lower Upper
57 100
41 98.0 74.4 111.6
43 125.6 190.6 285.8#
56 57.9 43.0 64.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. 0.003 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

Tgt Ion: 114 Resp: 2669493
Ion Ratio Lower Upper
114 100
63 26.0 20.8 31.2
88 18.0 14.3 21.5

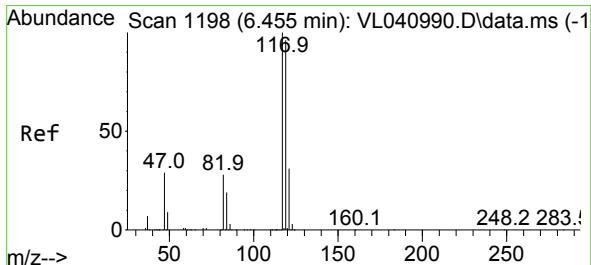
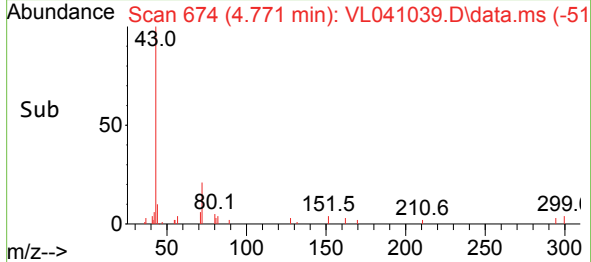
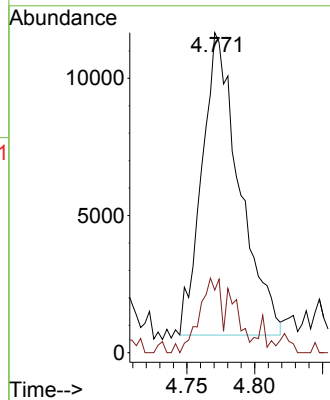
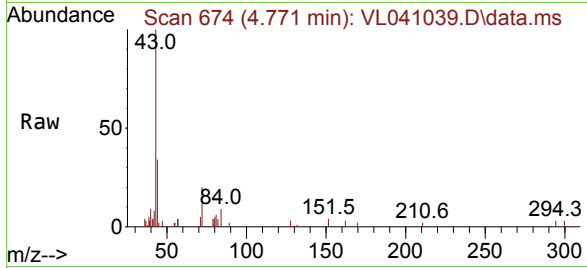




#34
2-Butanone
Concen: 0.166 ppbv
RT: 4.771 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

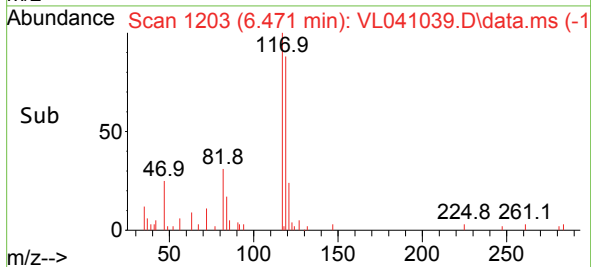
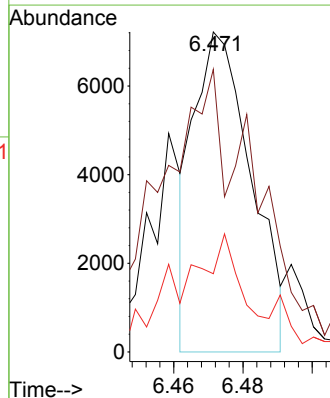
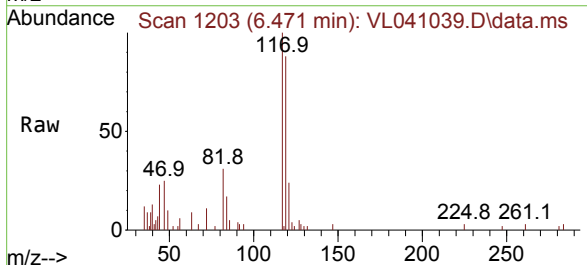
Instrument :
MSVOA_L
ClientSampleId :
OA1

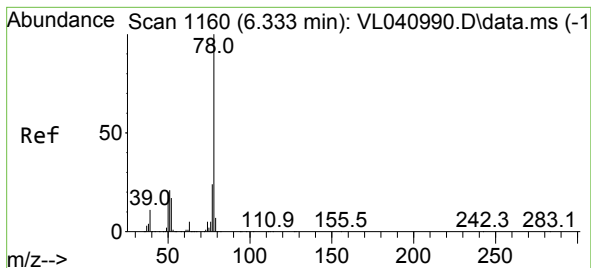
Tgt Ion: 43 Resp: 21156
Ion Ratio Lower Upper
43 100
72 27.2 17.5 26.3#



#35
Carbon Tetrachloride
Concen: 0.047 ppbv
RT: 6.471 min Scan# 1203
Delta R.T. 0.006 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

Tgt Ion: 117 Resp: 8323
Ion Ratio Lower Upper
117 100
119 69.3 76.9 115.3#
121 11.7 24.7 37.1#





#36

Benzene

Concen: 0.193 ppbv

RT: 6.346 min Scan# 1160

Delta R.T. 0.003 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

Instrument :

MSVOA_L

ClientSampleId :

OA1

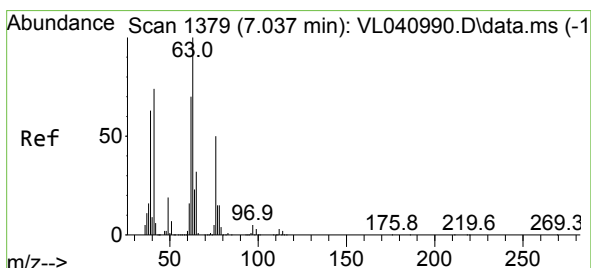
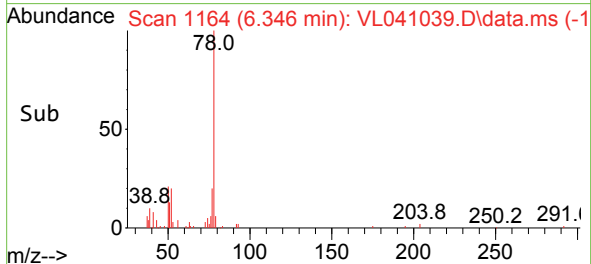
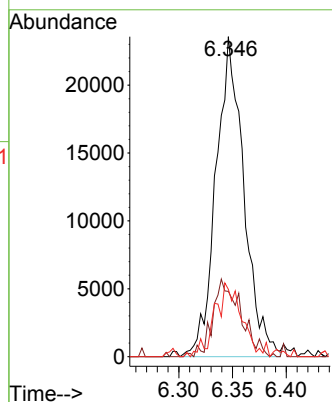
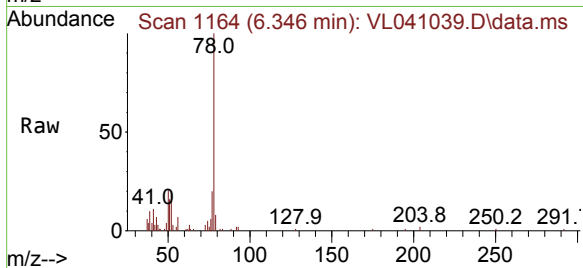
Tgt Ion: 78 Resp: 42456

Ion Ratio Lower Upper

78 100

77 20.4 19.0 28.4

50 21.0 15.8 23.6



#39

1,2-Dichloropropane

Concen: 7.860 ppbv

RT: 6.632 min Scan# 1253

Delta R.T. -0.415 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

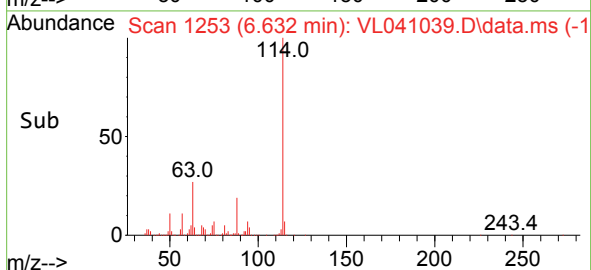
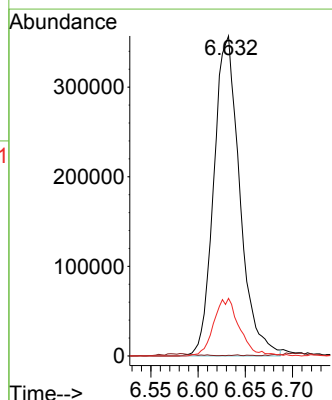
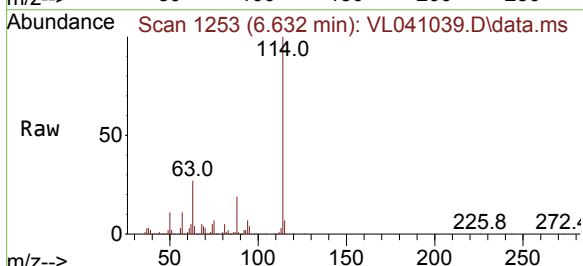
Tgt Ion: 63 Resp: 682635

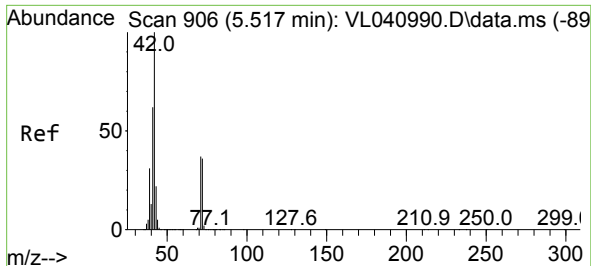
Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 18.0 55.6 83.4#





#41

Tetrahydrofuran

Concen: 2.612 ppbv

RT: 5.192 min Scan# 80

Delta R.T. -0.338 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

Instrument :

MSVOA_L

ClientSampleId :

OA1

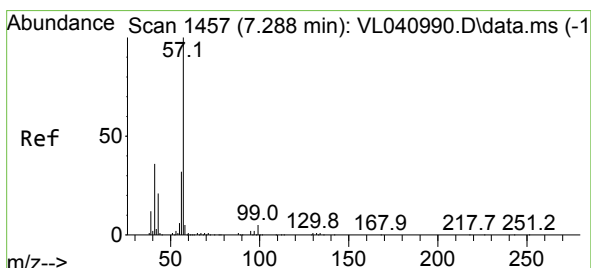
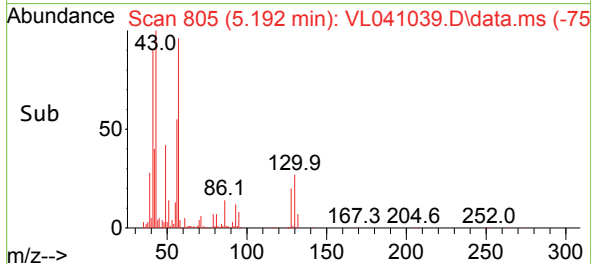
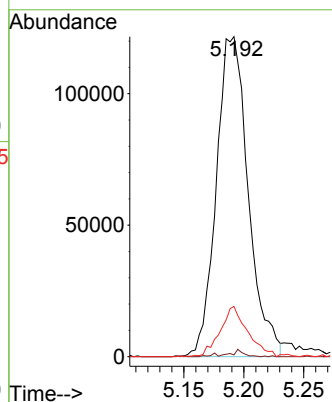
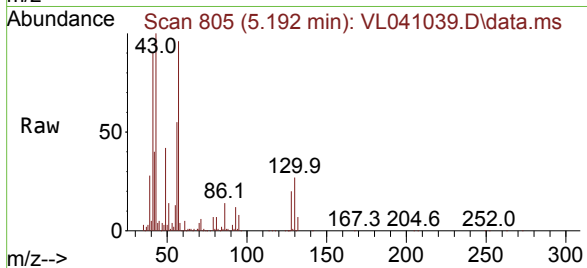
Tgt Ion: 42 Resp: 225561

Ion Ratio Lower Upper

42 100

72 1.2 30.0 45.0#

71 14.0 29.5 44.3#



#44

2,2,4-Trimethylpentane

Concen: 0.096 ppbv

RT: 7.301 min Scan# 1461

Delta R.T. 0.003 min

Lab File: VL041039.D

Acq: 7 Feb 2024 14:00

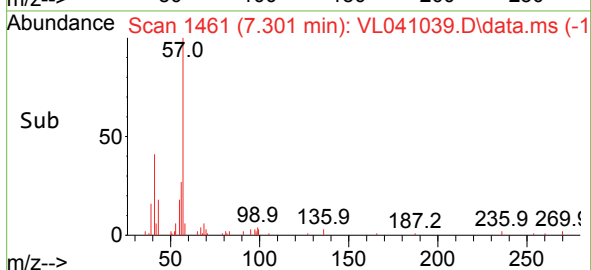
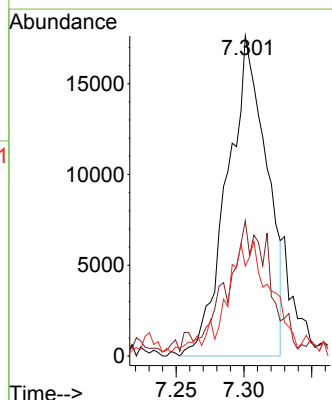
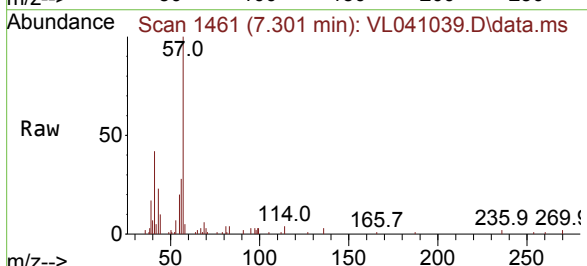
Tgt Ion: 57 Resp: 35464

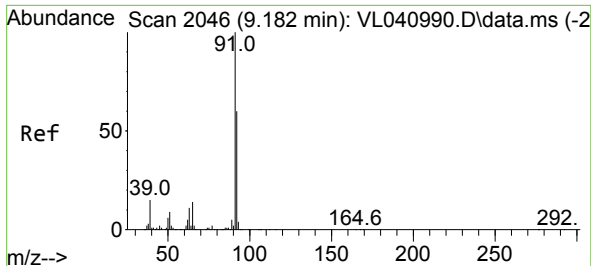
Ion Ratio Lower Upper

57 100

41 56.3 28.6 43.0#

56 44.1 25.2 37.8#

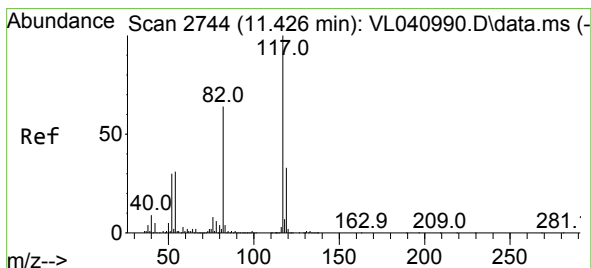
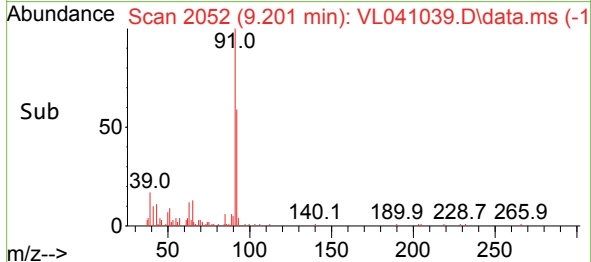
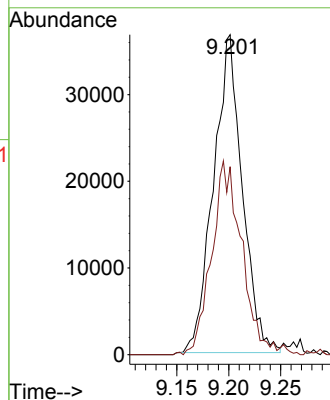
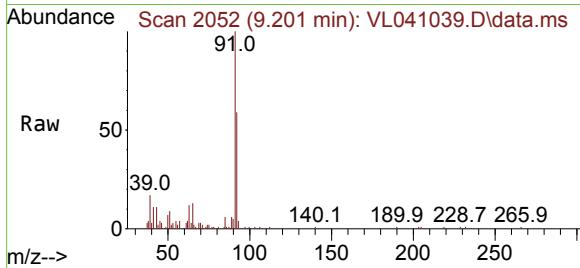




#53
Toluene
Concen: 0.293 ppbv
RT: 9.201 min Scan# 2046
Delta R.T. 0.006 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

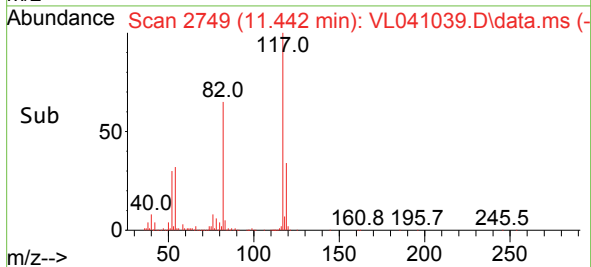
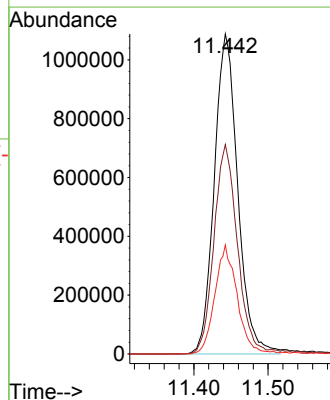
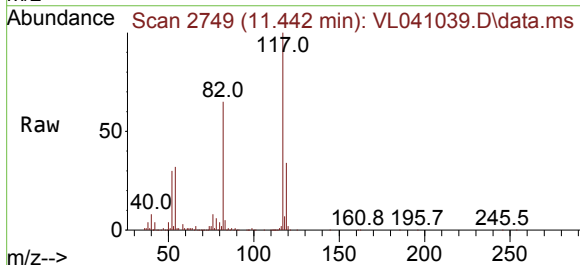
Instrument :
MSVOA_L
ClientSampleId :
OA1

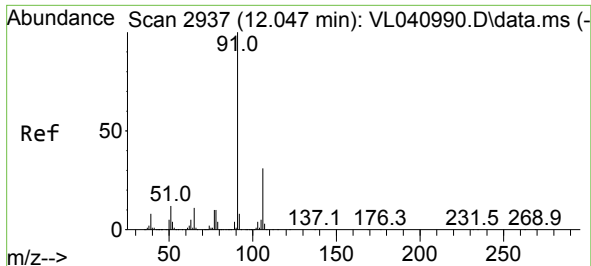
Tgt Ion: 91 Resp: 70721
Ion Ratio Lower Upper
91 100
92 64.2 48.6 72.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. 0.003 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

Tgt Ion: 117 Resp: 2388347
Ion Ratio Lower Upper
117 100
82 66.6 51.7 77.5
119 32.7 23.8 35.6

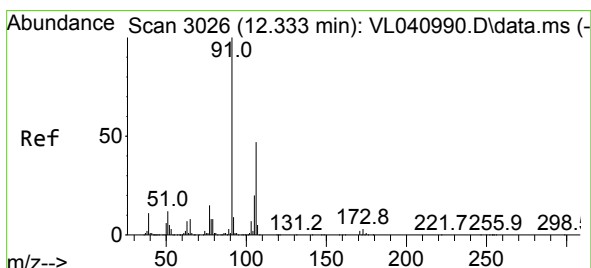
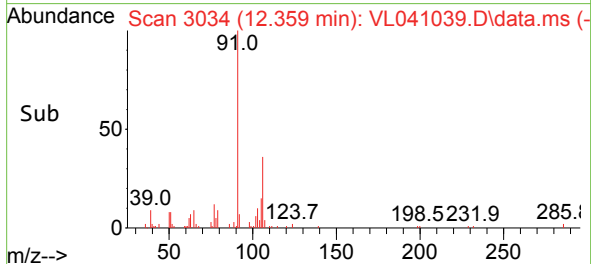
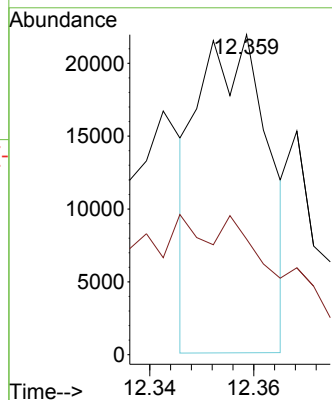
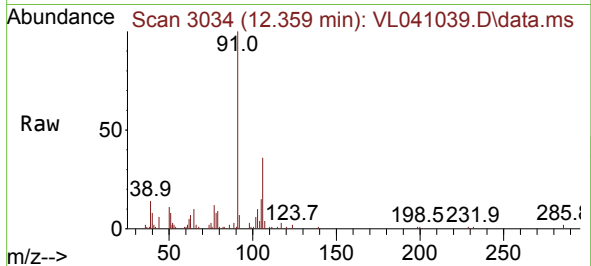




#58
Ethyl Benzene
Concen: 0.063 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.299 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

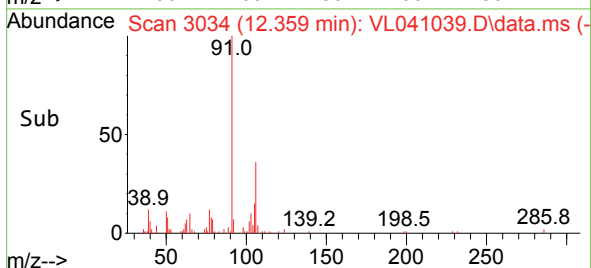
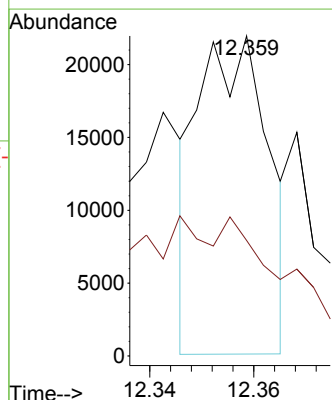
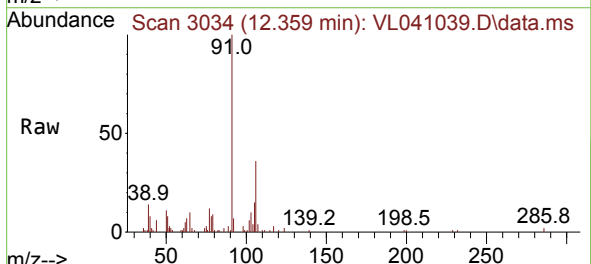
Instrument :
MSVOA_L
ClientSampleId :
OA1

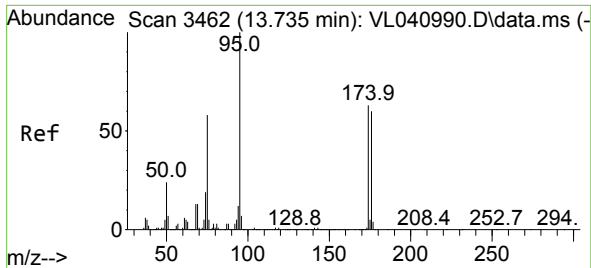
Tgt Ion: 91 Resp: 20220
Ion Ratio Lower Upper
91 100
106 26.8 24.8 37.2



#59
m/p-Xylene
Concen: 0.072 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.010 min
Lab File: VL041039.D
Acq: 7 Feb 2024 14:00

Tgt Ion: 91 Resp: 20220
Ion Ratio Lower Upper
91 100
106 0.0 34.9 52.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.418 ppbv

RT: 13.751 min Scan# 34

Delta R.T. 0.003 min

Lab File: VL041039.D

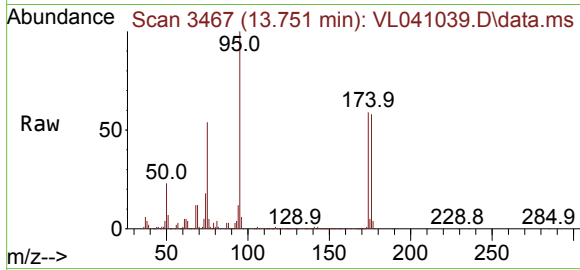
Acq: 7 Feb 2024 14:00

Instrument :

MSVOA_L

ClientSampleId :

OA1



Tgt Ion: 95 Resp: 1879284

Ion Ratio Lower Upper

95 100

174 60.5 49.1 73.7

175 4.5 3.7 5.5

