

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
 Data File : VL041157.D
 Acq On : 23 Apr 2024 12:40
 Operator : SY/MD
 Sample : P2222-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 24 02:51:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Apr 24 02:47:46 2024
 Response via : Initial Calibration

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

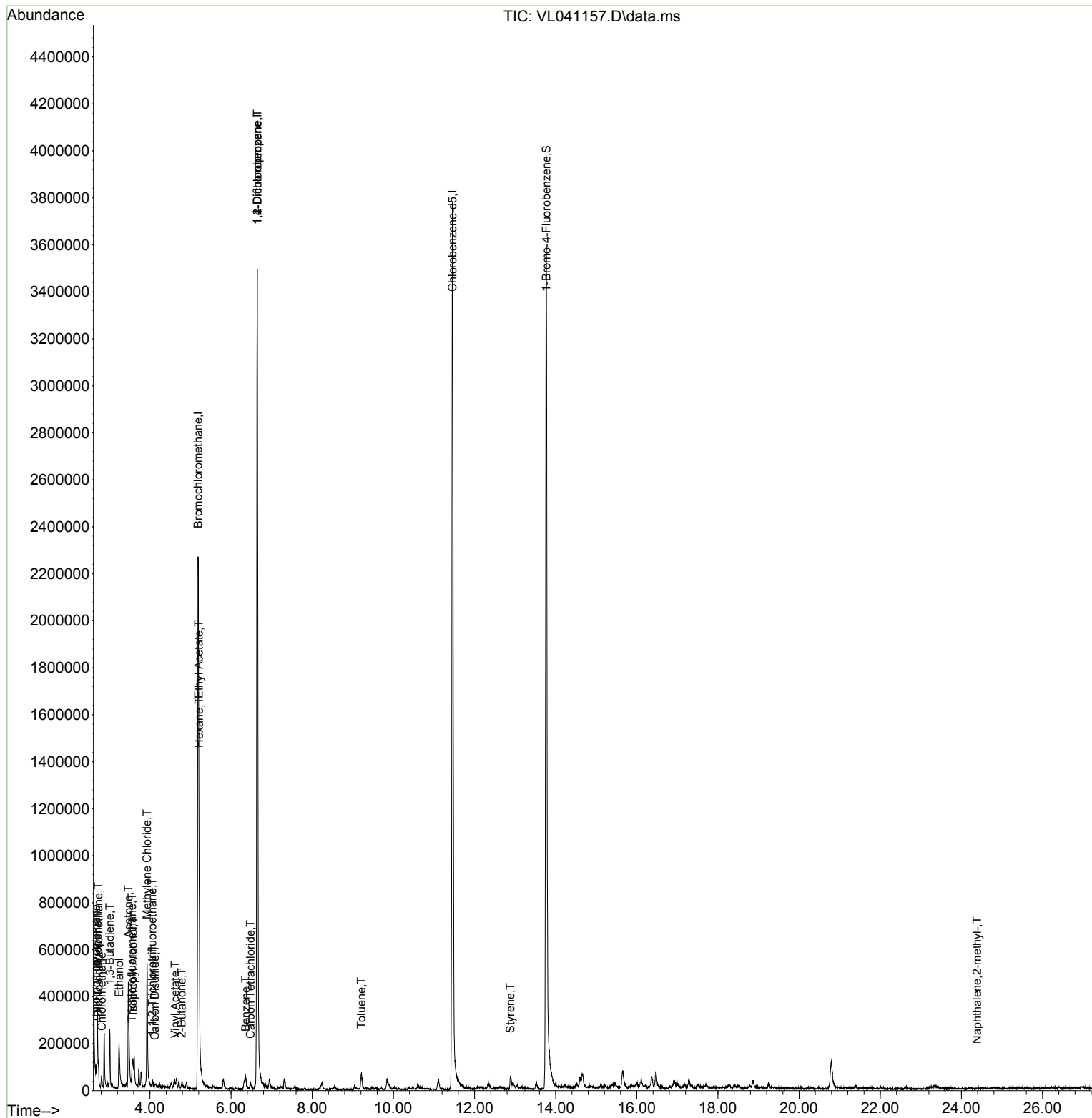
Internal Standards						
1) Bromochloromethane	5.185	49	1032827	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2577703	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2429600	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1867016	9.556	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.729	85	50610	0.286	ppbv	96
3) Chlorodifluoromethane	2.674	51	89344	0.562	ppbv #	90
4) Chloromethane	2.813	50	35946	0.597	ppbv	88
9) Propene	2.706	41	62142	1.228	ppbv #	66
11) Trichlorofluoromethane	3.558	101	39581	0.247	ppbv	85
12) 1,1,2-Trichlorotrifluo...	4.060	101	6727	0.058	ppbv #	63
13) Ethanol	3.240	45	218820	18.179	ppbv	98
15) Acetone	3.468	43	489808	4.380	ppbv	98
16) 1,3-Butadiene	3.012	39	28791	0.524	ppbv #	22
19) Isopropyl Alcohol	3.581	45	90983	1.339	ppbv #	89
20) Methylene Chloride	3.931	84	171466	3.717	ppbv	92
23) Vinyl Acetate	4.623	43	5535	0.048	ppbv #	84
25) Ethyl Acetate	5.205	43	207554	0.988	ppbv #	80
26) Hexane	5.208	57	268779	2.852	ppbv #	41
27) Carbon Disulfide	4.124	76	6826	0.059	ppbv #	1
34) 2-Butanone	4.784	43	13037	0.120	ppbv #	54
35) Carbon Tetrachloride	6.481	117	6723	0.046	ppbv	93
36) Benzene	6.359	78	29343	0.155	ppbv	96
39) 1,2-Dichloropropane	6.645	63	650969	8.722	ppbv #	25
53) Toluene	9.211	91	25870	0.130	ppbv #	63
61) Styrene	12.886	104	15438	0.153	ppbv #	4
80) Naphthalene,2-methyl-	24.387	142	1310	0.041	ppbv #	67

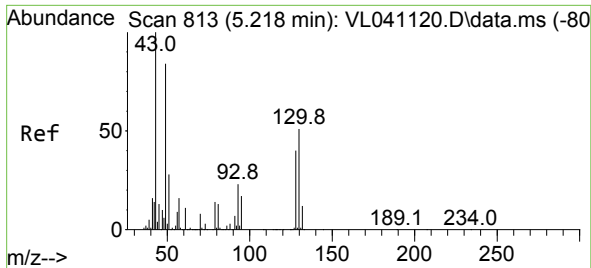
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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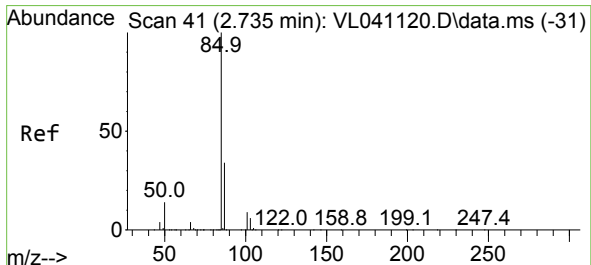
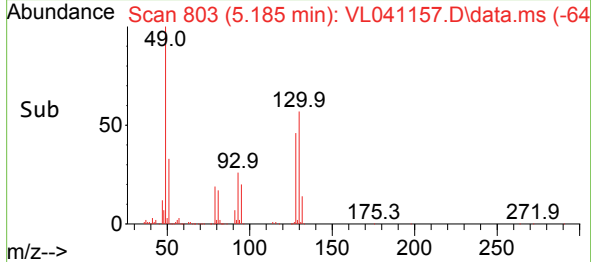
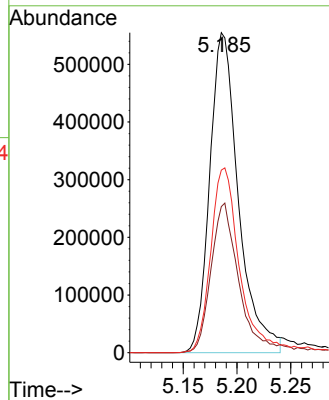
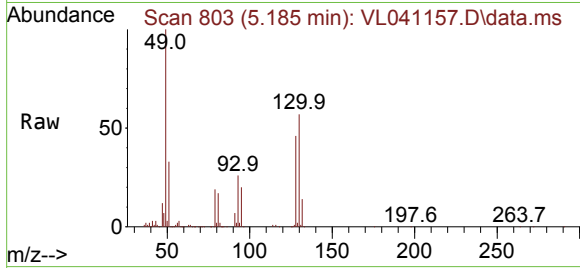




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. -0.004 min
 Lab File: VL041157.D
 Acq: 23 Apr 2024 12:40

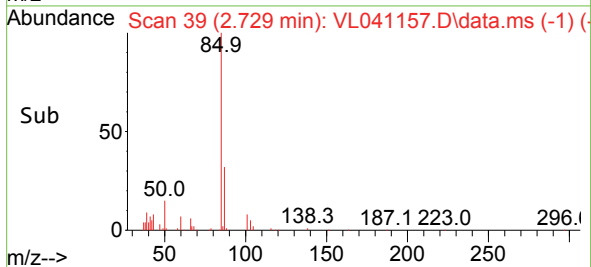
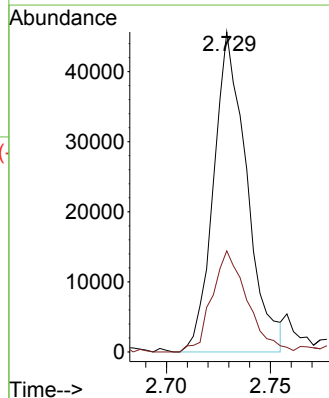
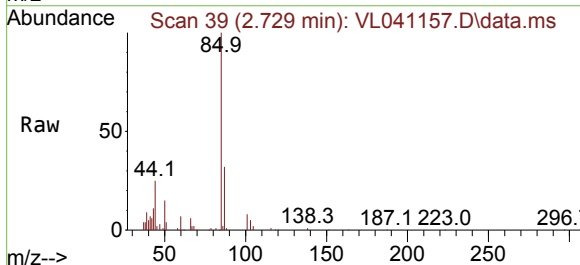
Instrument :
 MSVOA_L
 ClientSampleId :

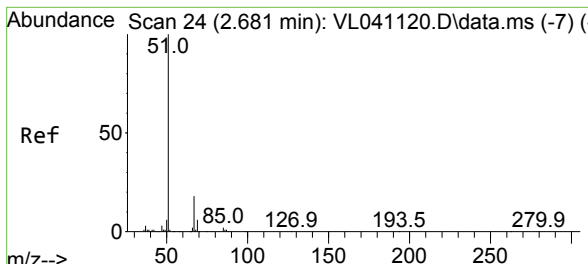
Tgt Ion: 49 Resp: 1032827
 Ion Ratio Lower Upper
 49 100
 128 47.4 23.6 71.0
 130 61.3 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.286 ppbv
 RT: 2.729 min Scan# 39
 Delta R.T. -0.006 min
 Lab File: VL041157.D
 Acq: 23 Apr 2024 12:40

Tgt Ion: 85 Resp: 50610
 Ion Ratio Lower Upper
 85 100
 87 31.6 27.0 40.6

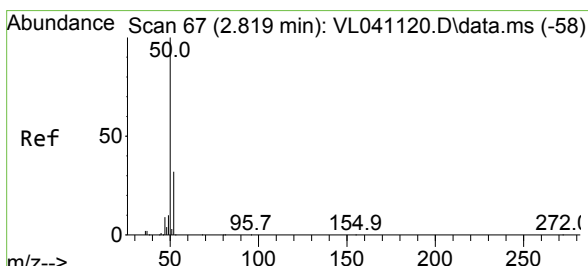
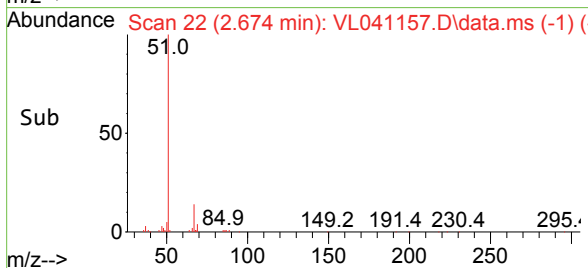
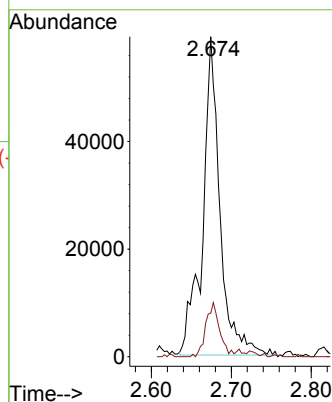
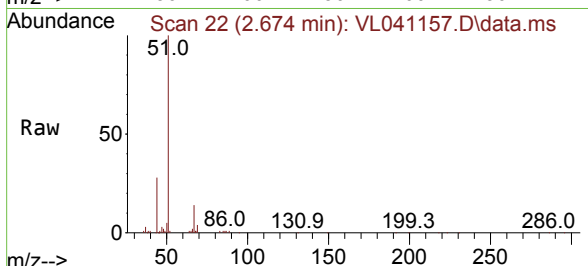




#3
Chlorodifluoromethane
Concen: 0.562 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

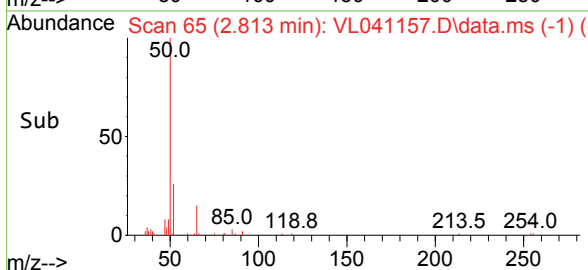
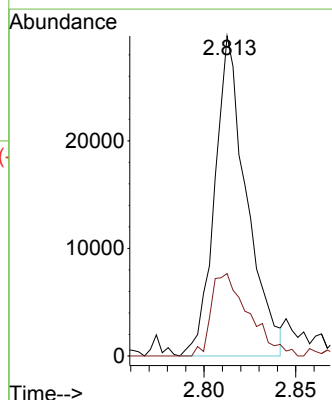
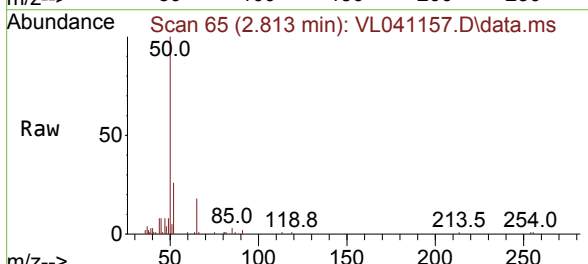
Instrument :
MSVOA_L
ClientSampleId :

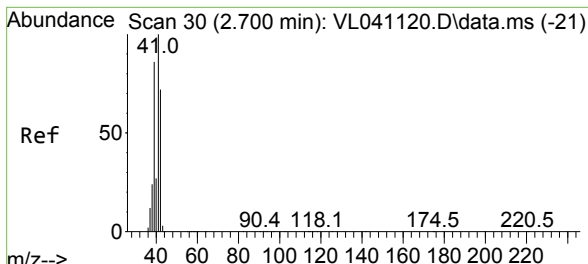
Tgt Ion: 51 Resp: 89344
Ion Ratio Lower Upper
51 100
67 14.2 14.9 22.3#



#4
Chloromethane
Concen: 0.597 ppbv
RT: 2.813 min Scan# 65
Delta R.T. -0.006 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Tgt Ion: 50 Resp: 35946
Ion Ratio Lower Upper
50 100
52 26.0 26.0 39.0

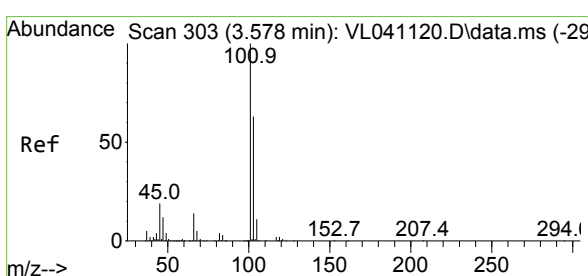
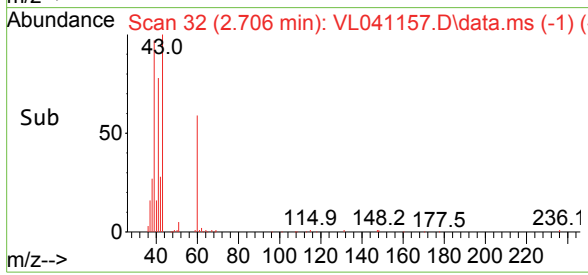
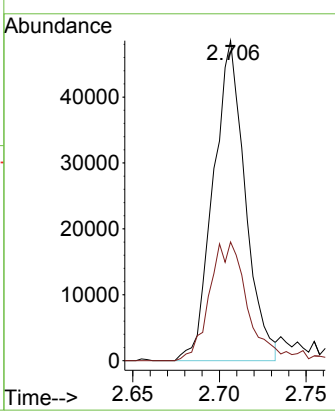
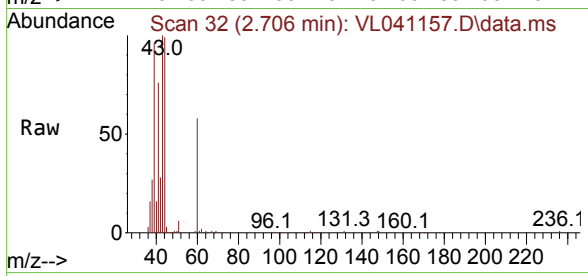




#9
 Propene
 Concen: 1.228 ppbv
 RT: 2.706 min Scan# 31
 Delta R.T. 0.006 min
 Lab File: VL041157.D
 Acq: 23 Apr 2024 12:40

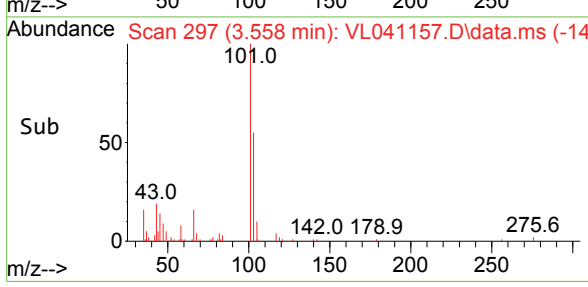
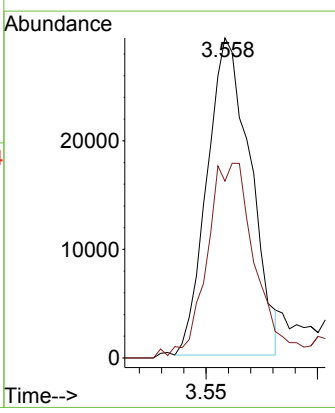
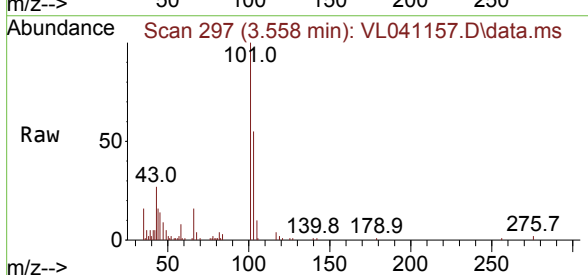
Instrument :
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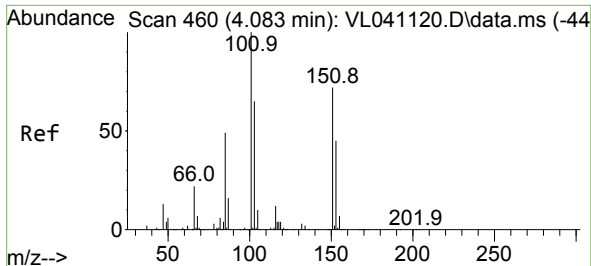
Tgt Ion: 41 Resp: 62142
 Ion Ratio Lower Upper
 41 100
 42 46.2 60.1 90.1#



#11
 Trichlorofluoromethane
 Concen: 0.247 ppbv
 RT: 3.558 min Scan# 297
 Delta R.T. -0.003 min
 Lab File: VL041157.D
 Acq: 23 Apr 2024 12:40

Tgt Ion: 101 Resp: 39581
 Ion Ratio Lower Upper
 101 100
 103 51.5 50.6 75.8

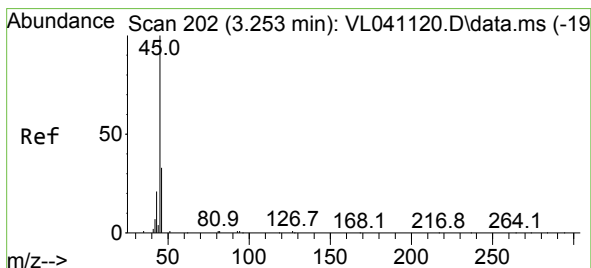
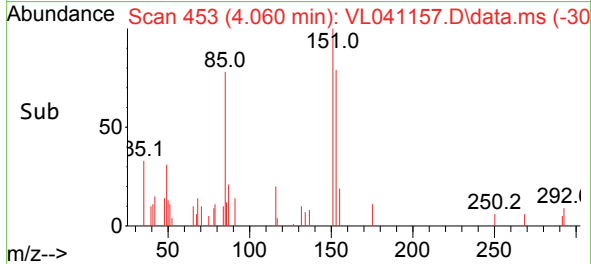
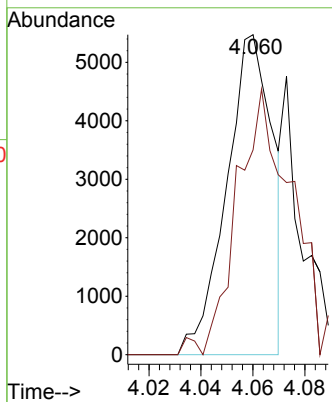
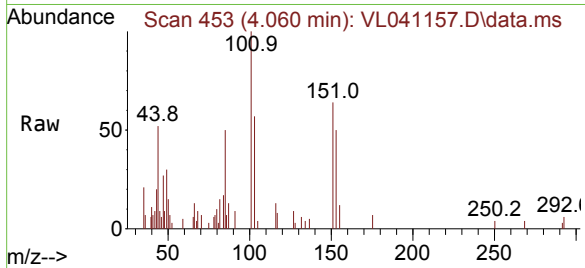




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.058 ppbv
RT: 4.060 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

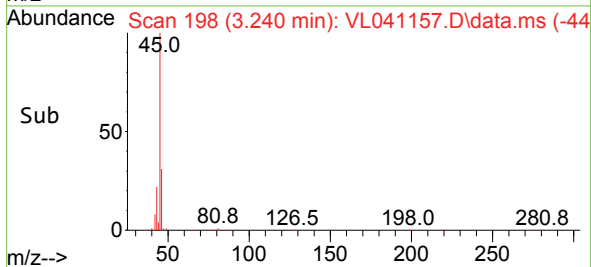
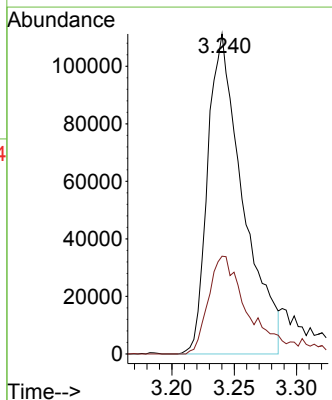
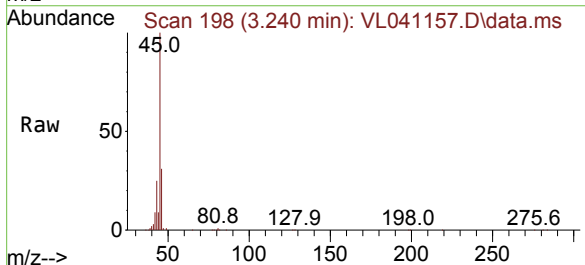
Instrument :
MSVOA_L
ClientSampleId :

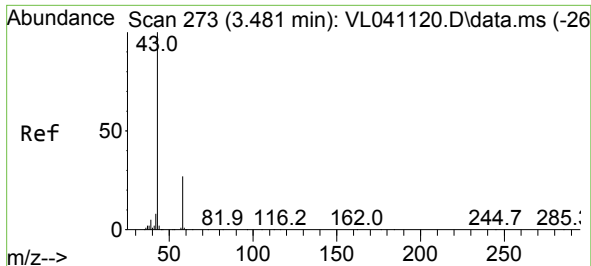
Tgt Ion:101 Resp: 6727
Ion Ratio Lower Upper
101 100
151 100.5 56.2 84.4#



#13
Ethanol
Concen: 18.179 ppbv
RT: 3.240 min Scan# 198
Delta R.T. -0.003 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Tgt Ion: 45 Resp: 218820
Ion Ratio Lower Upper
45 100
46 38.7 15.0 59.8

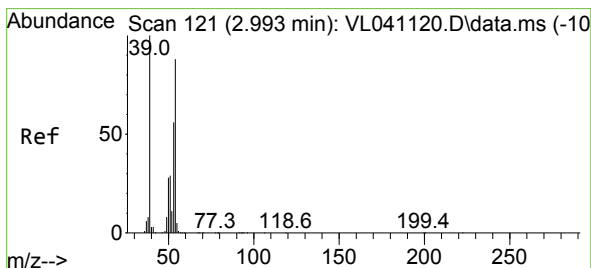
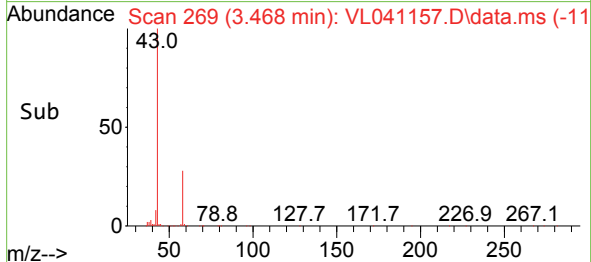
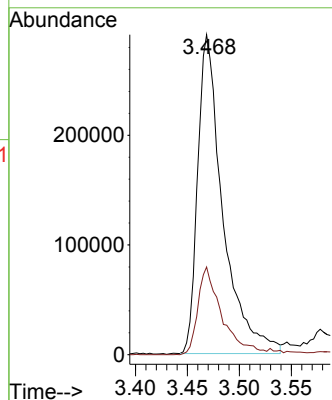
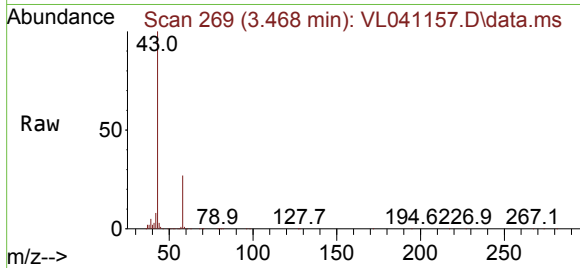




#15
Acetone
Concen: 4.380 ppbv
RT: 3.468 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

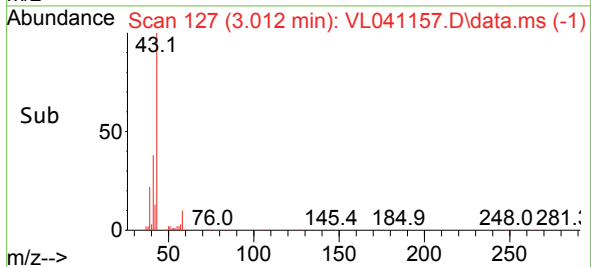
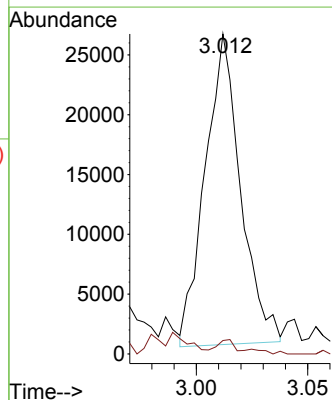
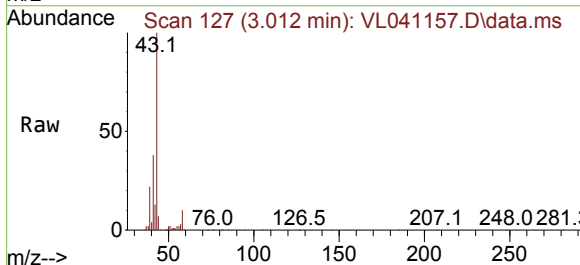
Instrument :
MSVOA_L
ClientSampleId :

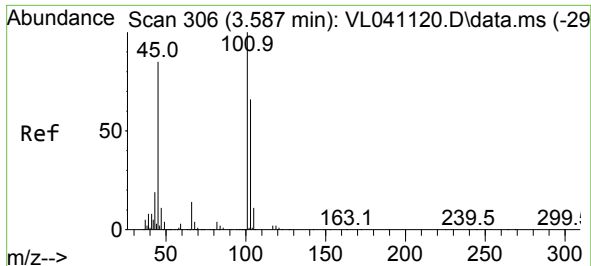
Tgt Ion: 43 Resp: 489808
Ion Ratio Lower Upper
43 100
58 27.7 21.1 31.7



#16
1,3-Butadiene
Concen: 0.524 ppbv
RT: 3.012 min Scan# 127
Delta R.T. 0.022 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Tgt Ion: 39 Resp: 28791
Ion Ratio Lower Upper
39 100
54 11.3 63.5 95.3





#19

Isopropyl Alcohol

Concen: 1.339 ppbv

RT: 3.581 min Scan# 306

Delta R.T. 0.006 min

Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

Instrument :

MSVOA_L

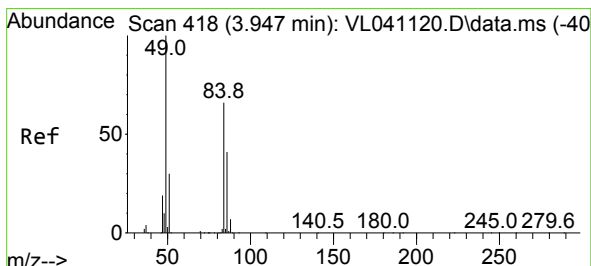
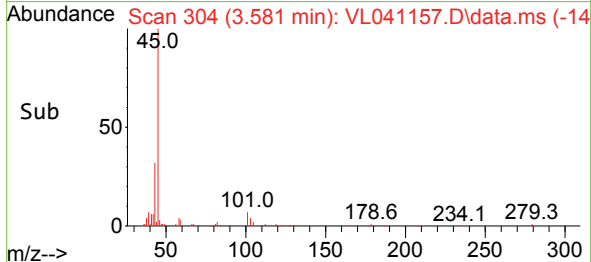
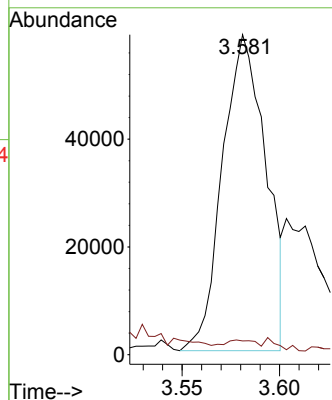
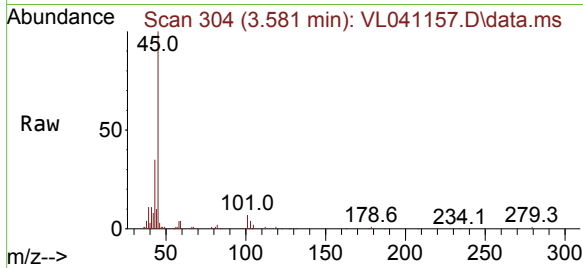
ClientSampleId :

Tgt Ion: 45 Resp: 90983

Ion Ratio Lower Upper

45 100

58 0.0 2.8 4.2#



#20

Methylene Chloride

Concen: 3.717 ppbv

RT: 3.931 min Scan# 413

Delta R.T. -0.000 min

Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

Tgt Ion: 84 Resp: 171466

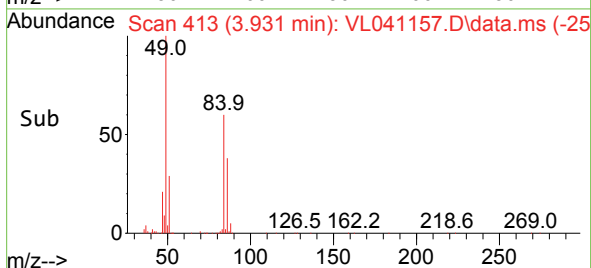
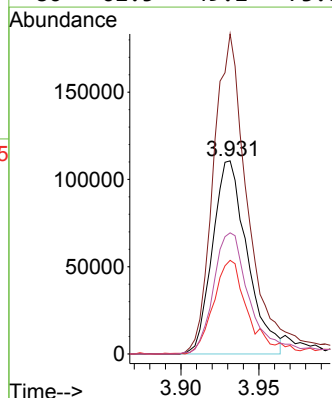
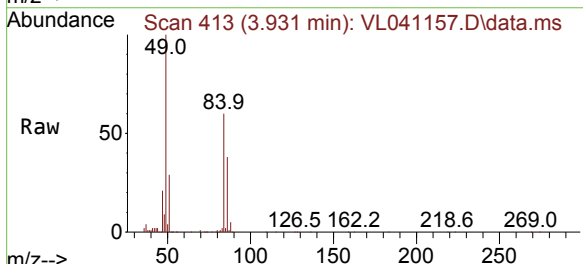
Ion Ratio Lower Upper

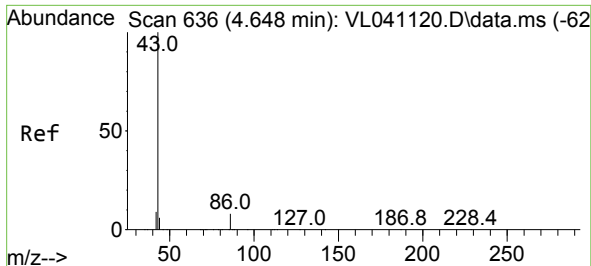
84 100

49 165.7 120.7 181.1

51 48.1 36.6 54.8

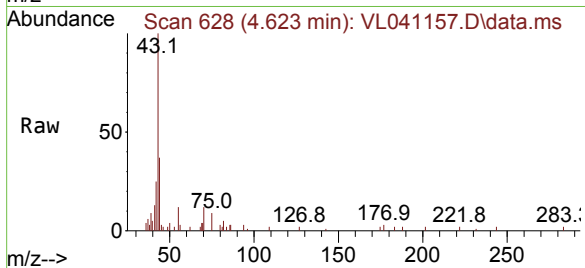
86 62.5 49.2 73.8



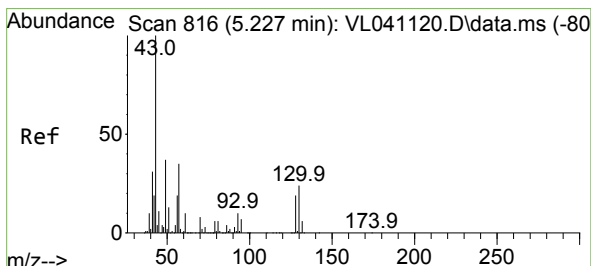
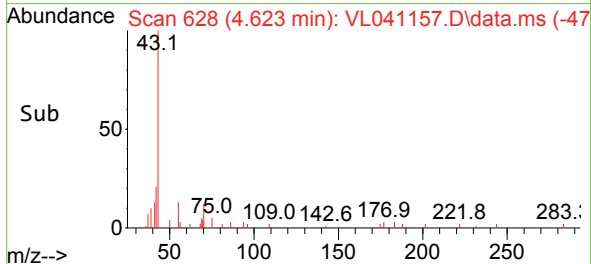
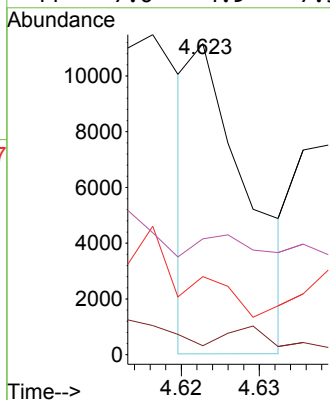


#23
 Vinyl Acetate
 Concen: 0.048 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. -0.000 min
 Lab File: VL041157.D
 Acq: 23 Apr 2024 12:40

Instrument :
 MSVOA_L
 ClientSampleId :

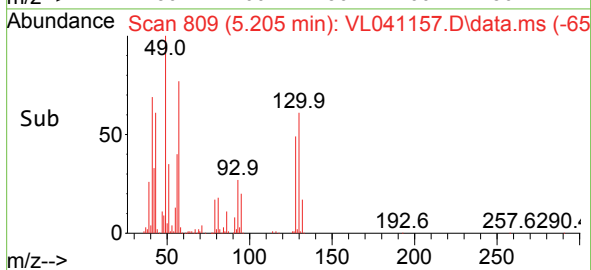
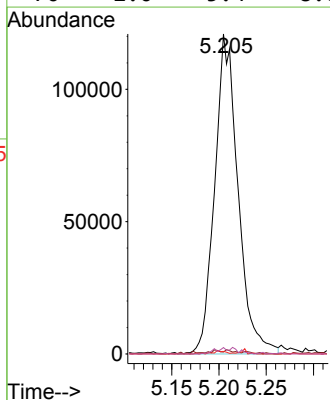
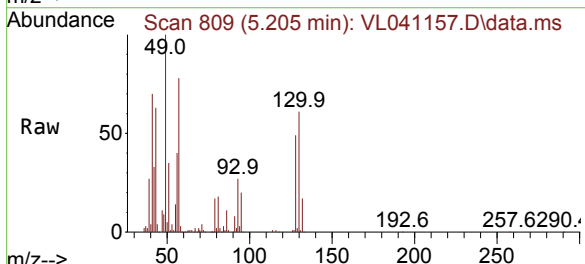


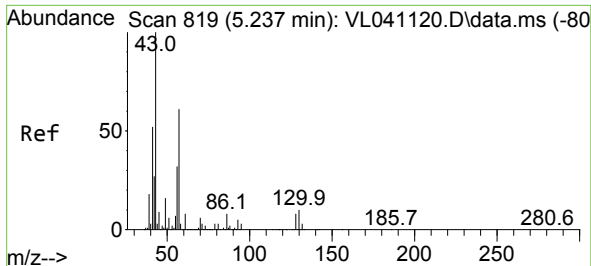
Tgt Ion:	43	Resp:	5535
Ion	Ratio	Lower	Upper
43	100		
86	0.5	6.2	9.4#
42	16.7	7.7	11.5#
44	7.6	4.9	7.3#



#25
 Ethyl Acetate
 Concen: 0.988 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. 0.006 min
 Lab File: VL041157.D
 Acq: 23 Apr 2024 12:40

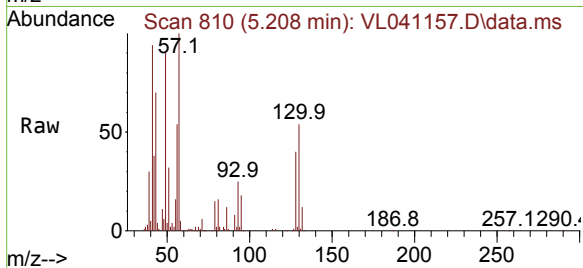
Tgt Ion:	43	Resp:	207554
Ion	Ratio	Lower	Upper
43	100		
45	2.0	8.0	12.0#
61	1.0	7.8	11.6#
70	2.0	5.4	8.0#



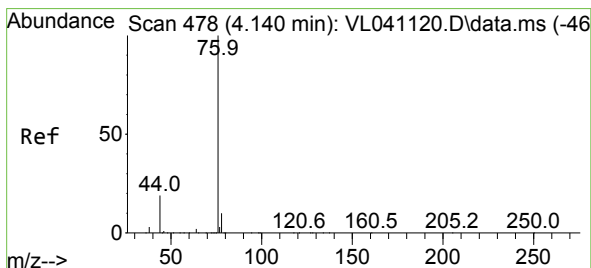
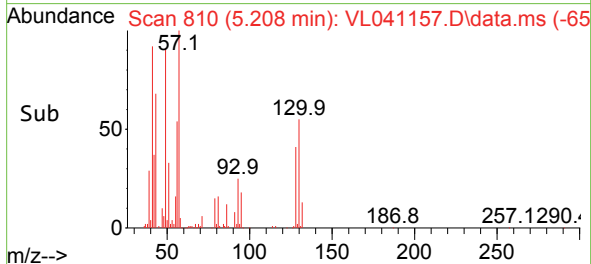
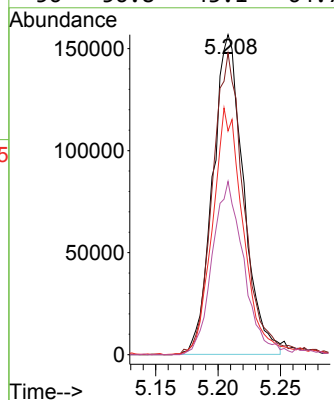


#26
Hexane
Concen: 2.852 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Instrument :
MSVOA_L
ClientSampleId :

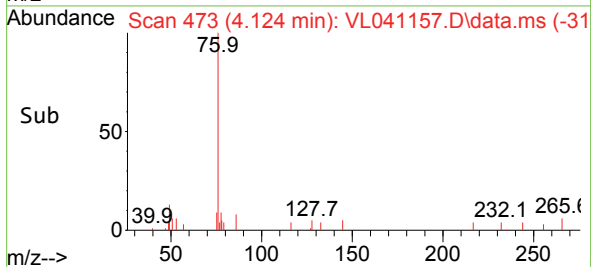
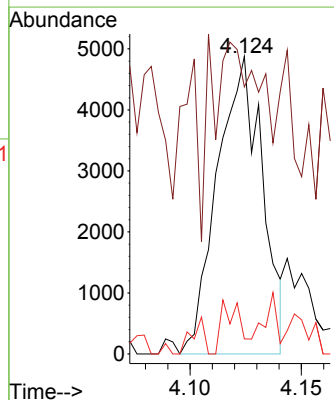
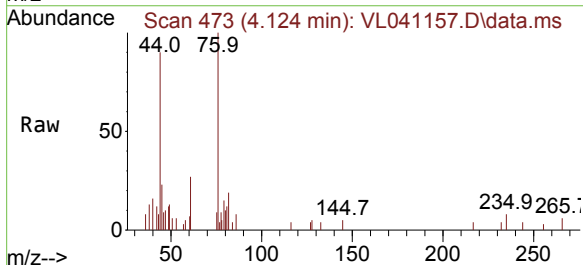


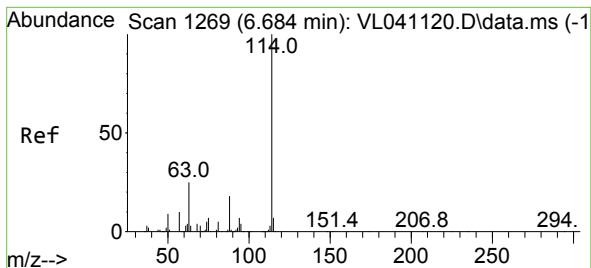
Tgt Ion: 57 Resp: 268779
Ion Ratio Lower Upper
57 100
41 98.7 73.8 110.8
43 79.0 186.2 279.2#
56 56.8 43.1 64.7



#27
Carbon Disulfide
Concen: 0.059 ppbv
RT: 4.124 min Scan# 473
Delta R.T. -0.000 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Tgt Ion: 76 Resp: 6826
Ion Ratio Lower Upper
76 100
44 163.8 16.3 24.5#
78 0.0 7.9 11.9#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.000 min

Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

Instrument :

MSVOA_L

ClientSampleId :

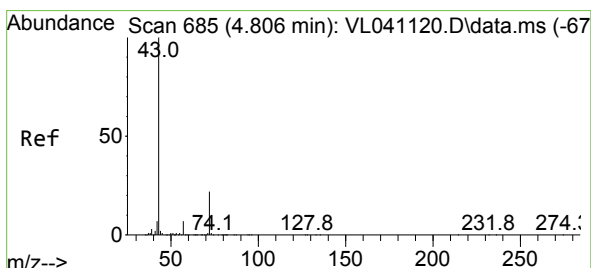
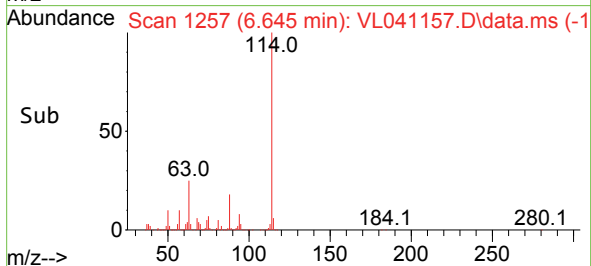
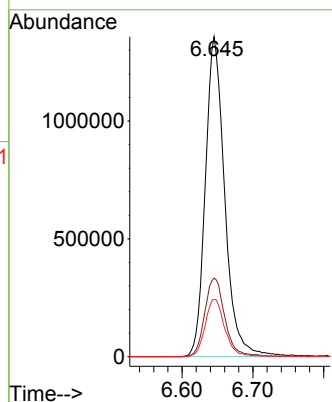
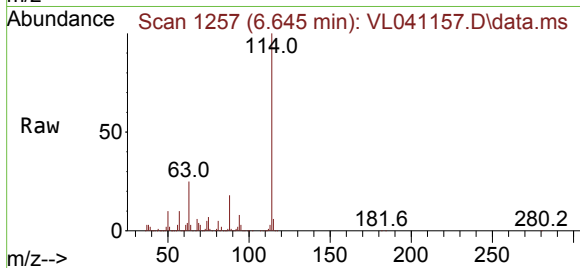
Tgt Ion:114 Resp: 2577703

Ion Ratio Lower Upper

114 100

63 25.8 20.9 31.3

88 18.3 14.5 21.7



#34

2-Butanone

Concen: 0.120 ppbv

RT: 4.784 min Scan# 678

Delta R.T. 0.003 min

Lab File: VL041157.D

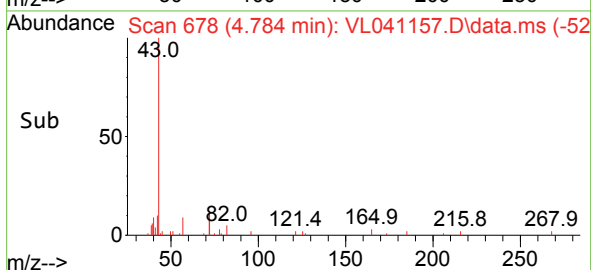
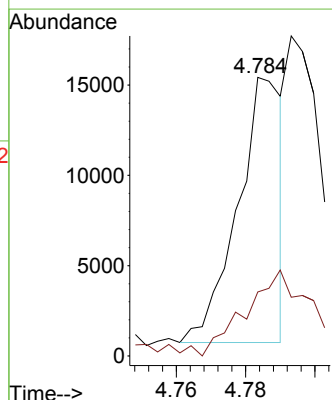
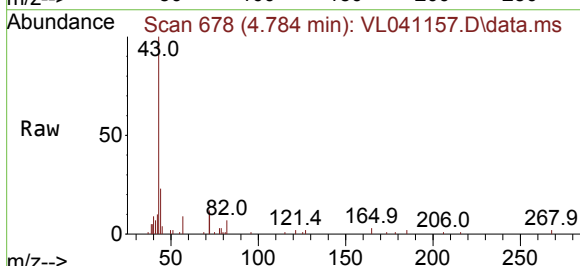
Acq: 23 Apr 2024 12:40

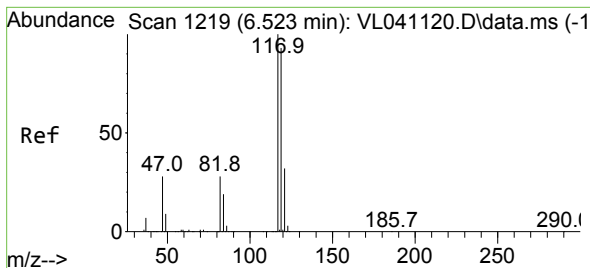
Tgt Ion: 43 Resp: 13037

Ion Ratio Lower Upper

43 100

72 0.0 17.6 26.4#





#35

Carbon Tetrachloride

Concen: 0.046 ppbv

RT: 6.481 min Scan# 1168

Delta R.T. -0.006 min

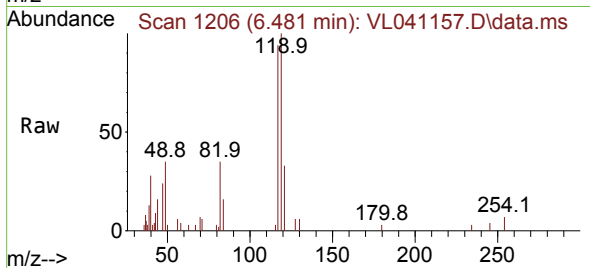
Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

Instrument :

MSVOA_L

ClientSampleId :



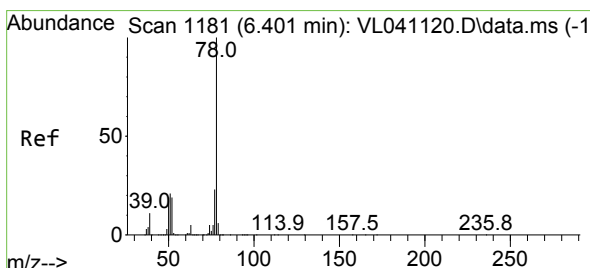
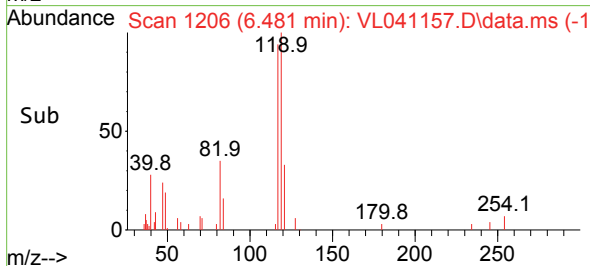
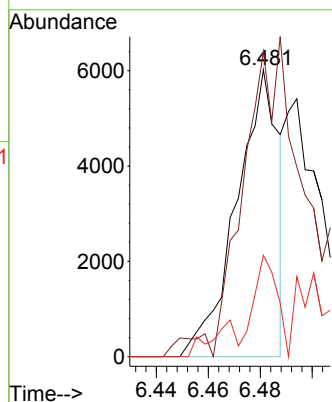
Tgt Ion:117 Resp: 6723

Ion Ratio Lower Upper

117 100

119 100.0 74.2 111.4

121 35.4 25.4 38.2



#36

Benzene

Concen: 0.155 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. -0.003 min

Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

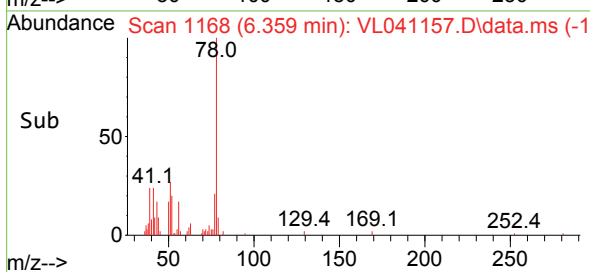
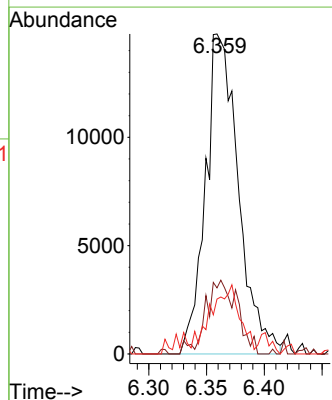
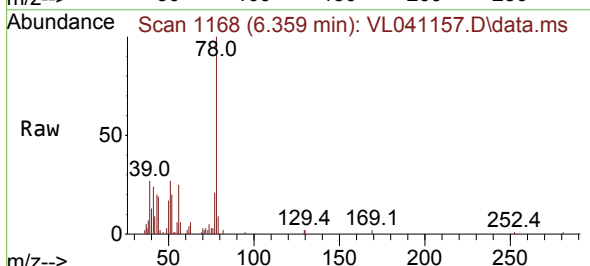
Tgt Ion: 78 Resp: 29343

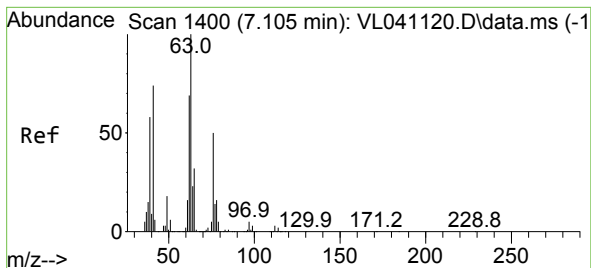
Ion Ratio Lower Upper

78 100

77 21.2 18.2 27.4

50 17.6 15.4 23.2





#39

1,2-Dichloropropane

Concen: 8.722 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

Instrument :

MSVOA_L

ClientSampleId :

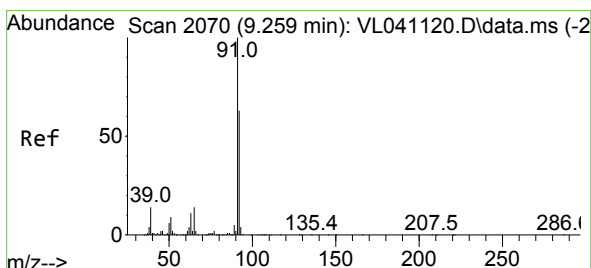
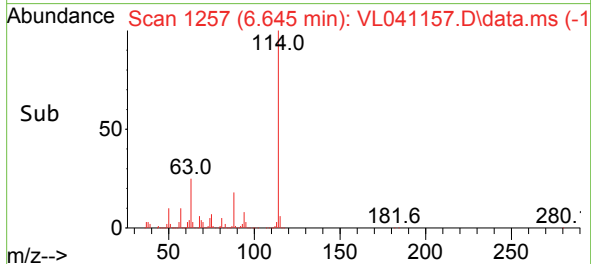
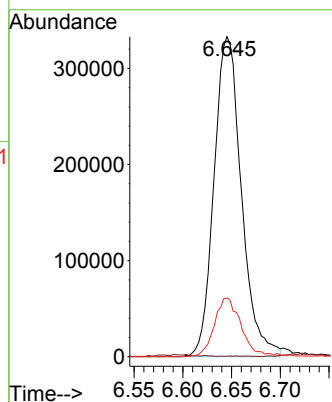
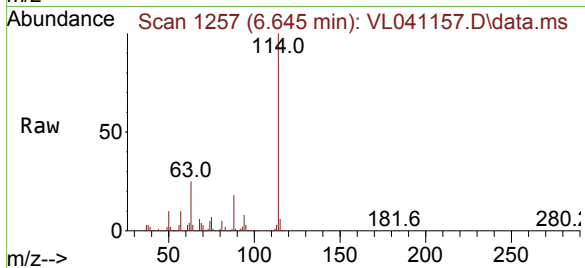
Tgt Ion: 63 Resp: 650969

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 18.3 55.5 83.3#



#53

Toluene

Concen: 0.130 ppbv

RT: 9.211 min Scan# 2055

Delta R.T. -0.000 min

Lab File: VL041157.D

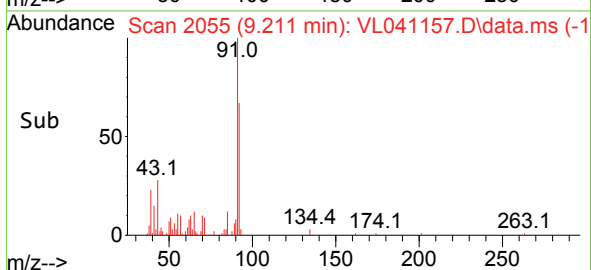
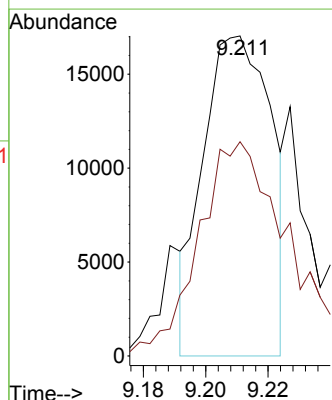
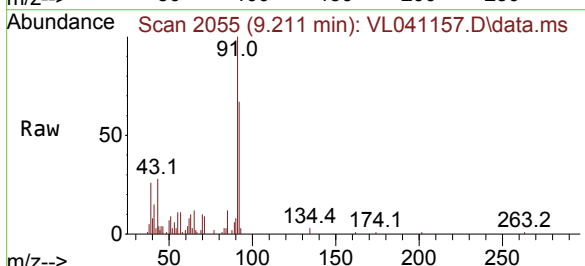
Acq: 23 Apr 2024 12:40

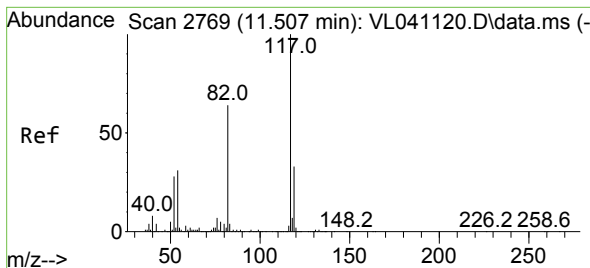
Tgt Ion: 91 Resp: 25870

Ion Ratio Lower Upper

91 100

92 89.5 49.0 73.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. -0.000 min

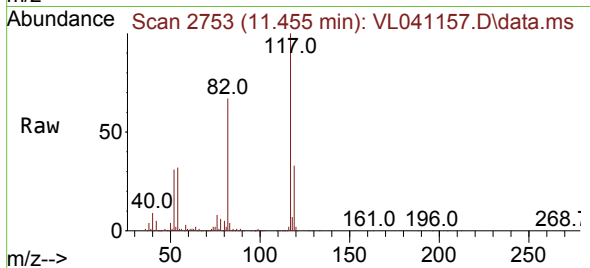
Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

Instrument :

MSVOA_L

ClientSampleId :



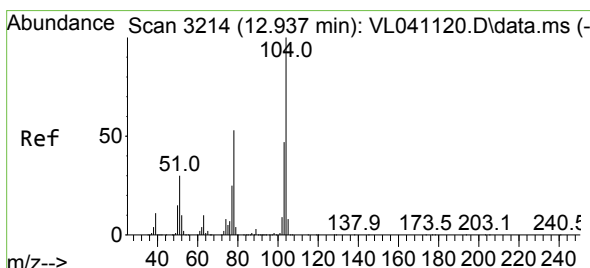
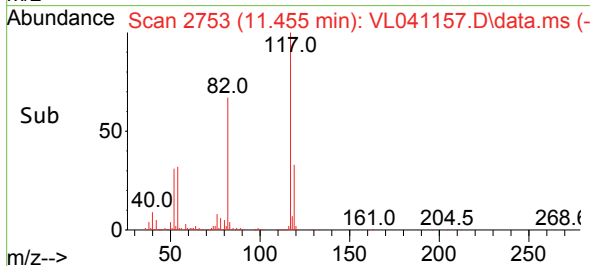
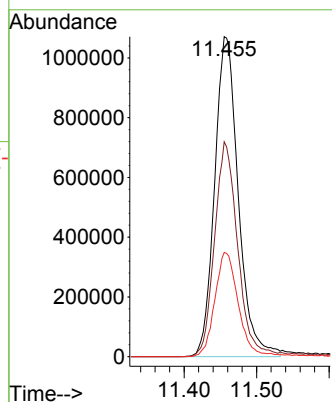
Tgt Ion:117 Resp: 2429600

Ion Ratio Lower Upper

117 100

82 67.8 51.0 76.6

119 33.2 25.2 37.8



#61

Styrene

Concen: 0.153 ppbv

RT: 12.886 min Scan# 3198

Delta R.T. -0.000 min

Lab File: VL041157.D

Acq: 23 Apr 2024 12:40

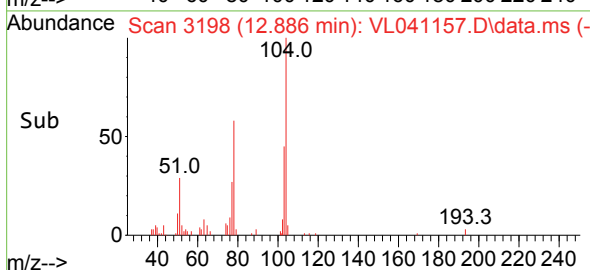
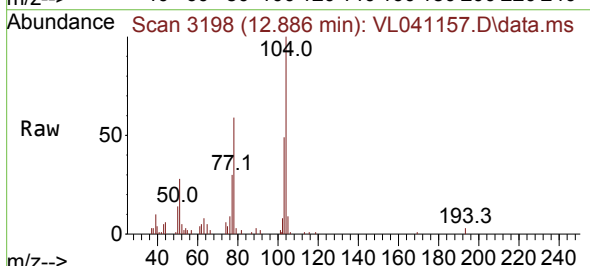
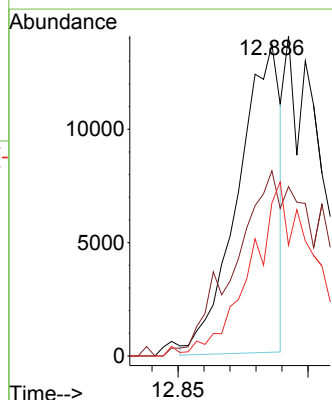
Tgt Ion:104 Resp: 15438

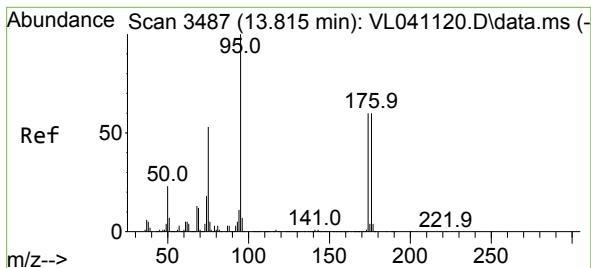
Ion Ratio Lower Upper

104 100

78 138.1 43.3 64.9#

103 0.0 38.2 57.2#

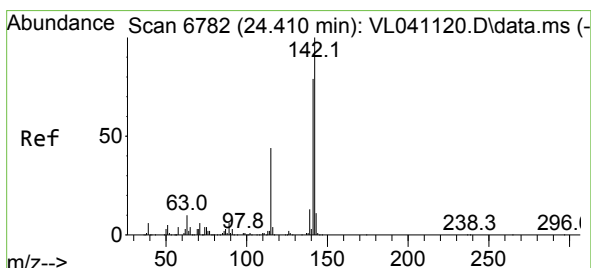
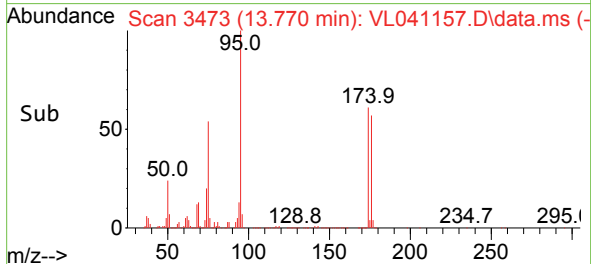
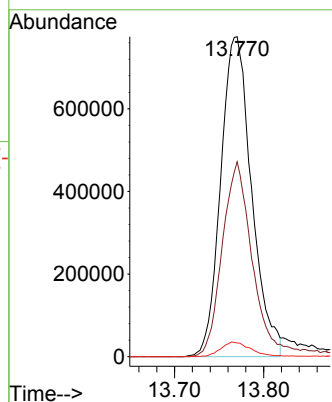
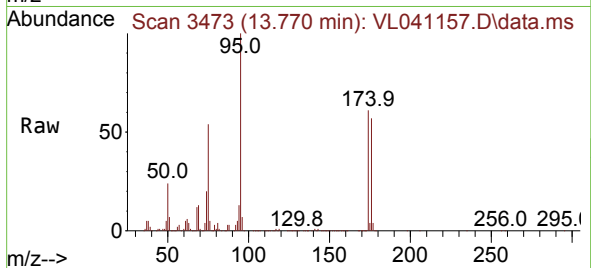




#68
1-Bromo-4-Fluorobenzene
Concen: 9.556 ppbv
RT: 13.770 min Scan# 3487
Delta R.T. 0.006 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 95 Resp: 1867016
Ion Ratio Lower Upper
95 100
174 62.6 49.3 73.9
175 4.7 3.6 5.4



#80
Naphthalene,2-methyl-
Concen: 0.041 ppbv
RT: 24.387 min Scan# 6775
Delta R.T. 0.019 min
Lab File: VL041157.D
Acq: 23 Apr 2024 12:40

Tgt Ion:142 Resp: 1310
Ion Ratio Lower Upper
142 100
141 57.3 64.4 96.6#
115 12.1 33.5 50.3#

