

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
 Data File : VL041158.D
 Acq On : 23 Apr 2024 13:21
 Operator : SY/MD
 Sample : P2222-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 24 02:51:46 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)

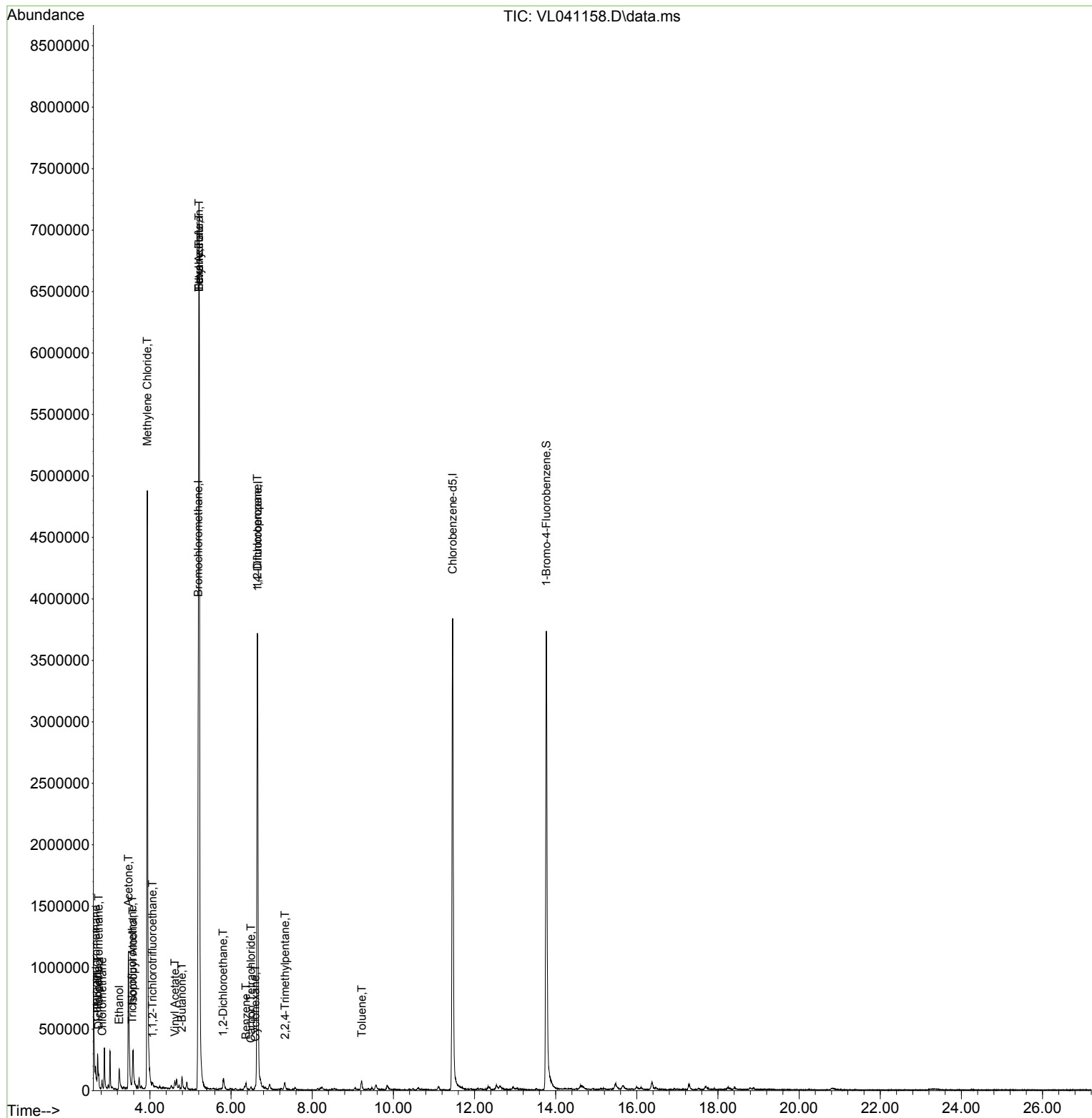
Internal Standards						
1) Bromochloromethane	5.192	49	1111151	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2762708	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2464504	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1912091	9.648	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.735	85	64645	0.340	ppbv	91
3) Chlorodifluoromethane	2.658	51	131105	0.766	ppbv #	76
4) Chloromethane	2.822	50	57289	0.885	ppbv	98
9) Propene	2.710	41	58775	1.080	ppbv #	68
11) Trichlorofluoromethane	3.568	101	41275	0.239	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.066	101	5910	0.047	ppbv #	51
13) Ethanol	3.243	45	183828	14.196	ppbv	97
15) Acetone	3.472	43	1174162	9.759	ppbv	99
19) Isopropyl Alcohol	3.584	45	299508	4.098	ppbv #	97
20) Methylene Chloride	3.935	84	1689001	34.037	ppbv	96
23) Vinyl Acetate	4.616	43	58845	0.479	ppbv #	87
25) Ethyl Acetate	5.211	43	1930972	8.546	ppbv #	77
26) Hexane	5.211	57	2755758	27.181	ppbv #	40
30) Cyclohexane	6.597	84	4547	0.055	ppbv #	1
34) 2-Butanone	4.790	43	62577	0.535	ppbv #	59
35) Carbon Tetrachloride	6.491	117	6324	0.040	ppbv #	64
36) Benzene	6.365	78	34128	0.168	ppbv #	78
37) 1,2-Dichloroethane	5.803	62	3863	0.032	ppbv #	85
39) 1,2-Dichloropropane	6.648	63	692204	8.653	ppbv #	24
41) Tetrahydrofuran	5.211	42	1047307	13.455	ppbv #	50
44) 2,2,4-Trimethylpentane	7.333	57	13565	0.040	ppbv #	41
53) Toluene	9.221	91	17703	0.083	ppbv #	1

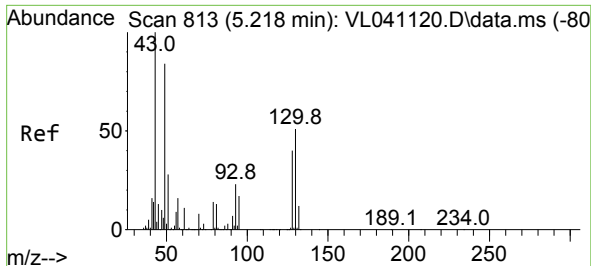
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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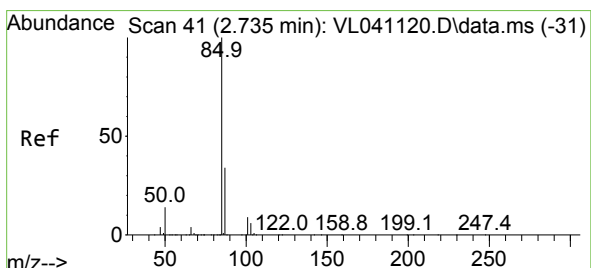
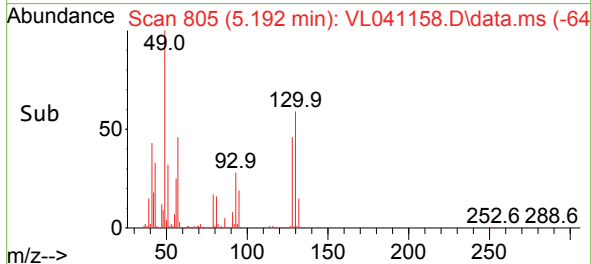
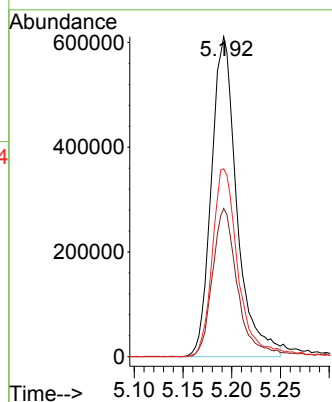
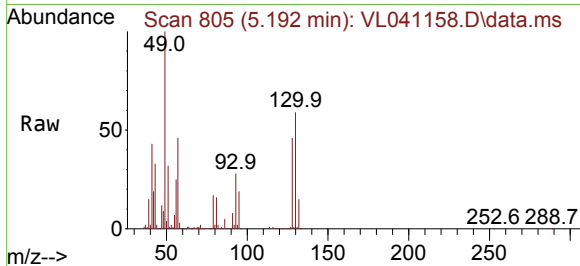




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.192 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL041158.D
 Acq: 23 Apr 2024 13:21

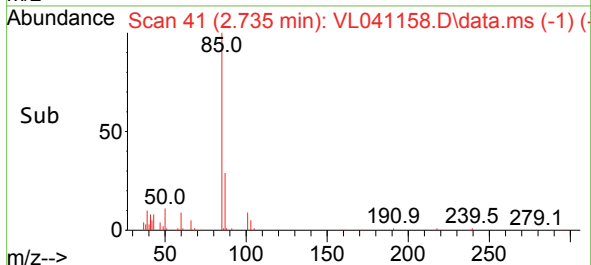
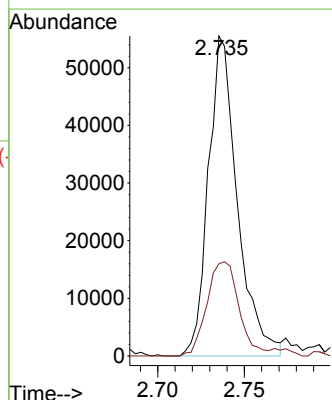
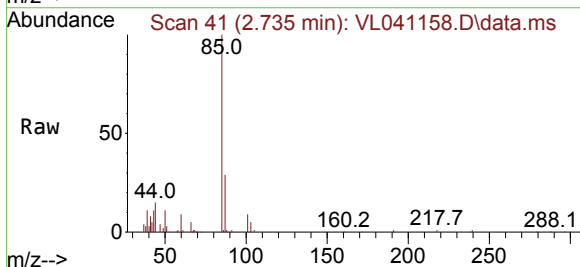
Instrument :
 MSVOA_L
 ClientSampleId :

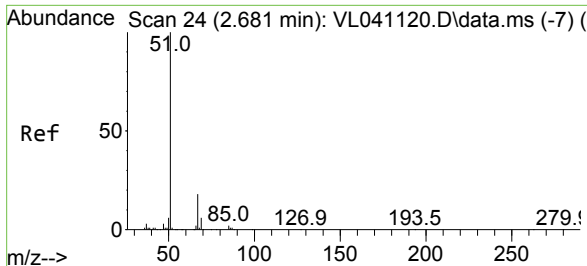
Tgt Ion: 49 Resp: 1111151
 Ion Ratio Lower Upper
 49 100
 128 47.0 23.6 71.0
 130 61.4 30.1 90.5



#2
 Dichlorodifluoromethane
 Concen: 0.340 ppbv
 RT: 2.735 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL041158.D
 Acq: 23 Apr 2024 13:21

Tgt Ion: 85 Resp: 64645
 Ion Ratio Lower Upper
 85 100
 87 28.8 27.0 40.6

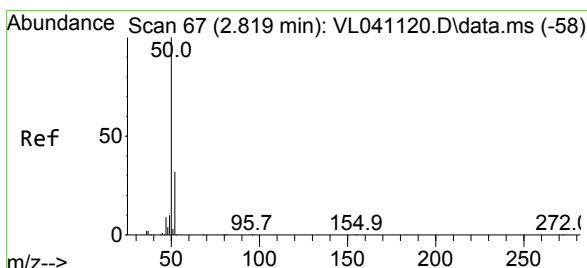
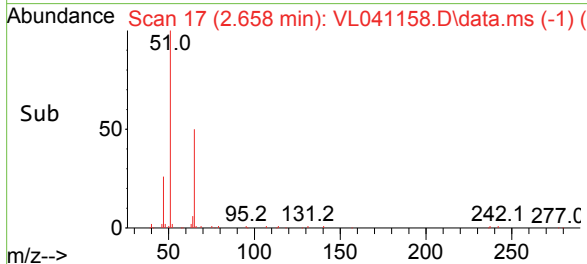
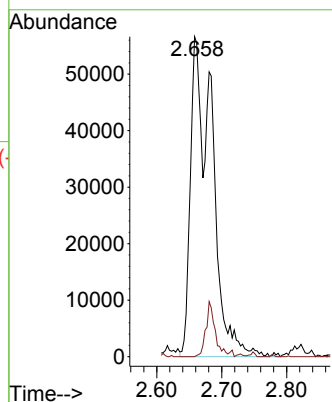
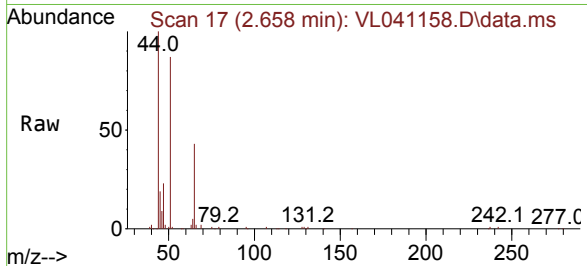




#3
Chlorodifluoromethane
Concen: 0.766 ppbv
RT: 2.658 min Scan# 11
Delta R.T. -0.023 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

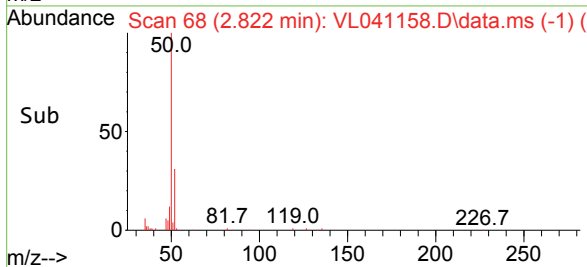
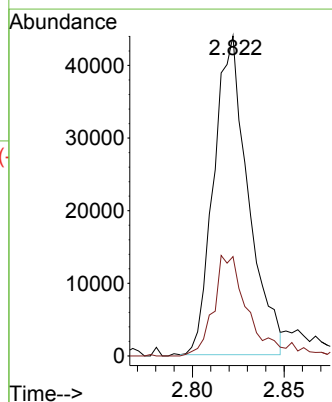
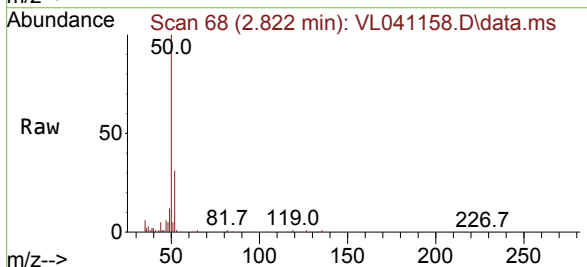
Instrument :
MSVOA_L
ClientSampleId :

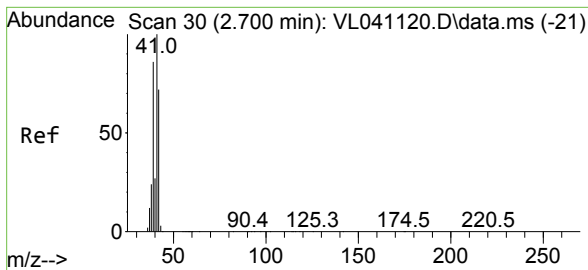
Tgt Ion: 51 Resp: 131105
Ion Ratio Lower Upper
51 100
67 7.8 14.9 22.3#



#4
Chloromethane
Concen: 0.885 ppbv
RT: 2.822 min Scan# 68
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 50 Resp: 57289
Ion Ratio Lower Upper
50 100
52 31.2 26.0 39.0

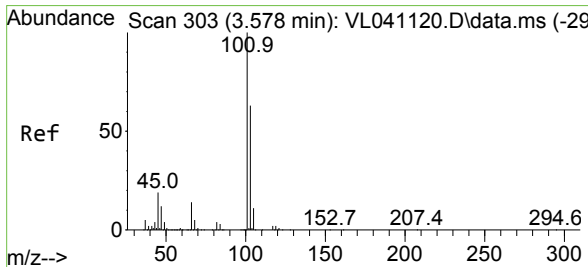
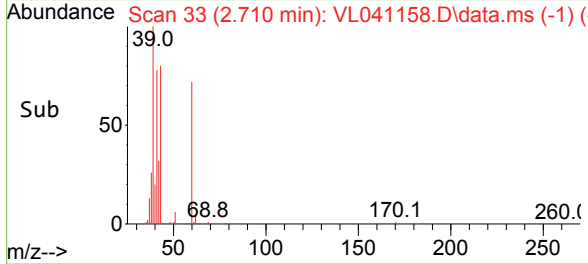
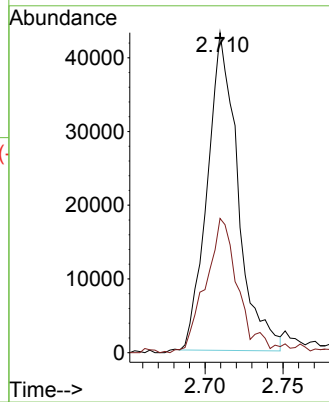
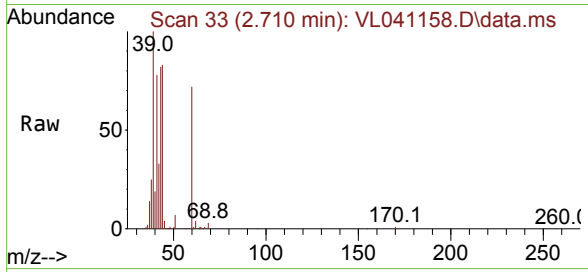




#9
Propene
Concen: 1.080 ppbv
RT: 2.710 min Scan# 31
Delta R.T. 0.010 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

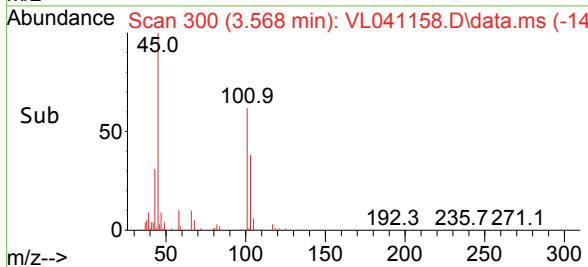
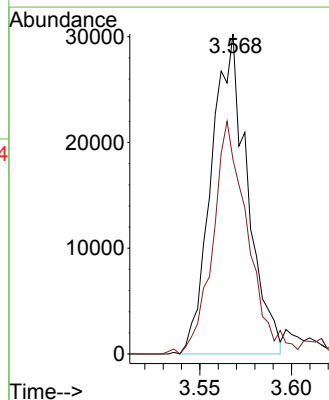
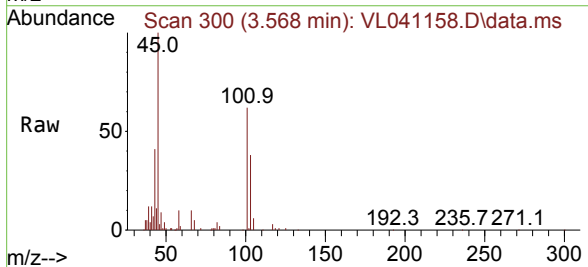
Instrument :
MSVOA_L
ClientSampleId :

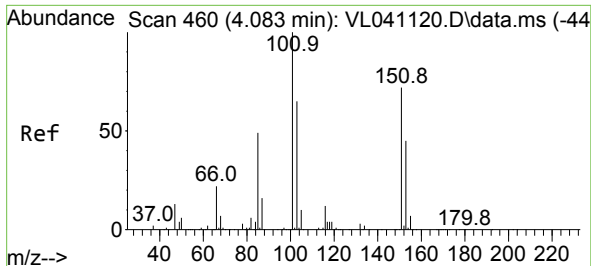
Tgt Ion: 41 Resp: 58775
Ion Ratio Lower Upper
41 100
42 48.1 60.1 90.1#



#11
Trichlorofluoromethane
Concen: 0.239 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.006 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 101 Resp: 41275
Ion Ratio Lower Upper
101 100
103 60.7 50.6 75.8

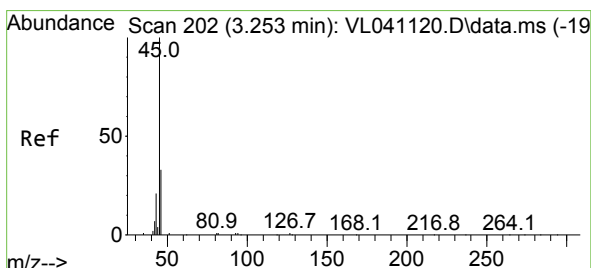
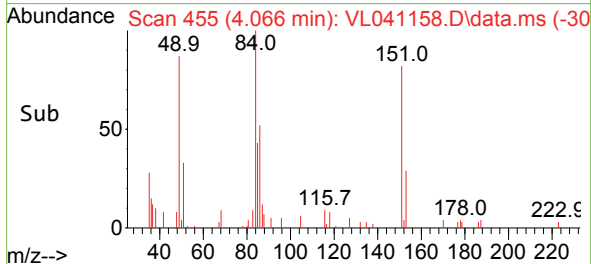
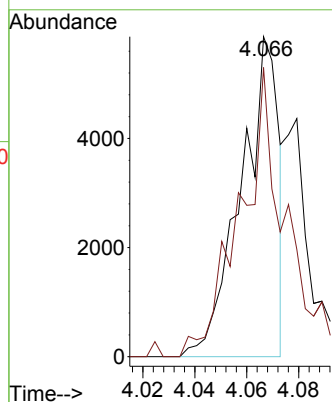
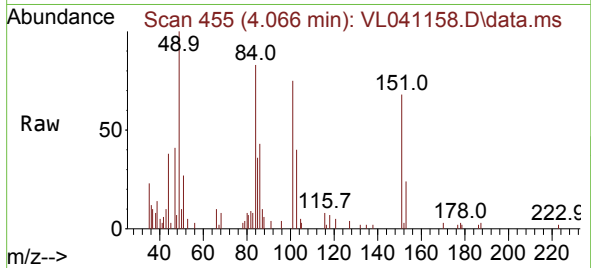




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.047 ppbv
RT: 4.066 min Scan# 41
Delta R.T. -0.000 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

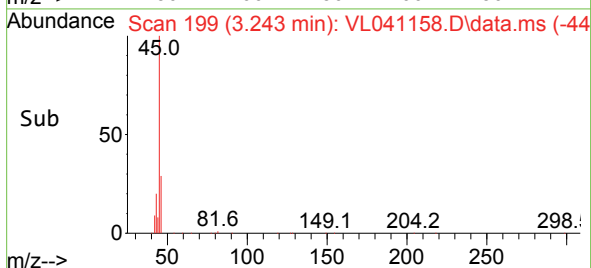
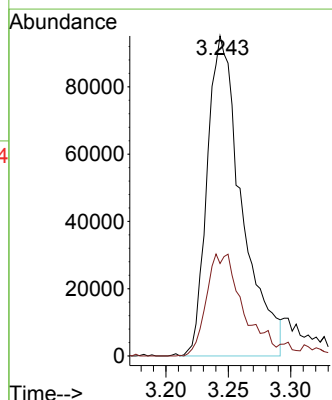
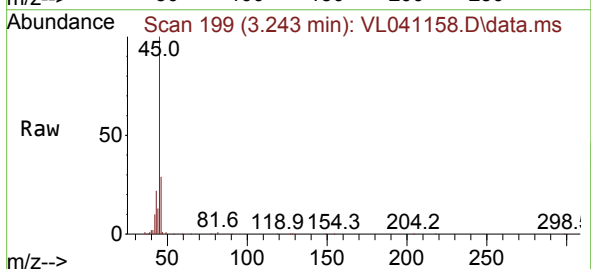
Instrument :
MSVOA_L
ClientSampleId :

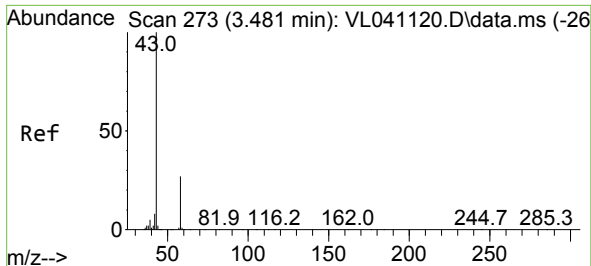
Tgt Ion:101 Resp: 5910
Ion Ratio Lower Upper
101 100
151 110.5 56.2 84.4#



#13
Ethanol
Concen: 14.196 ppbv
RT: 3.243 min Scan# 199
Delta R.T. -0.000 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 45 Resp: 183828
Ion Ratio Lower Upper
45 100
46 39.3 15.0 59.8

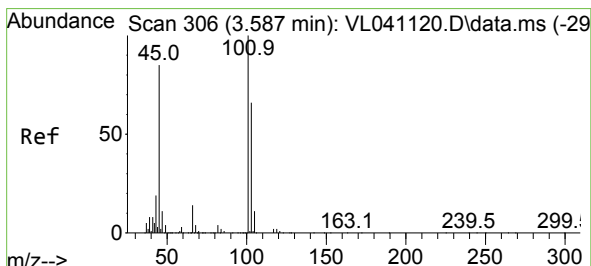
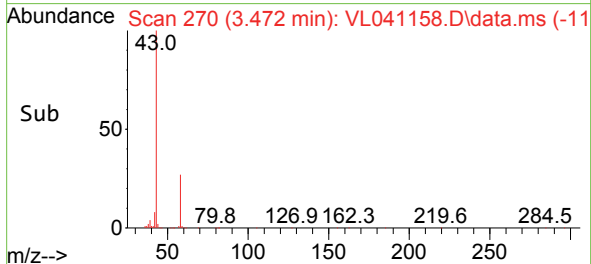
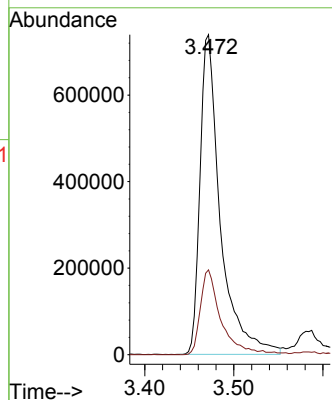
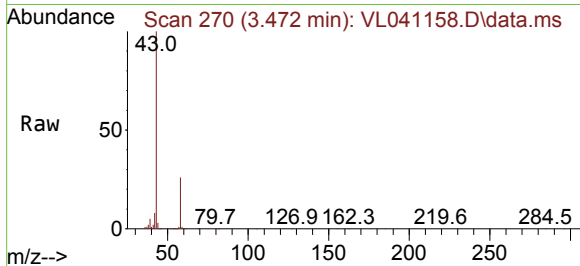




#15
Acetone
Concen: 9.759 ppbv
RT: 3.472 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

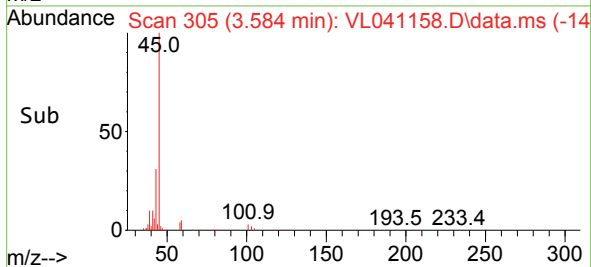
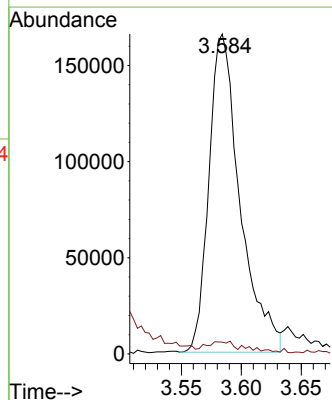
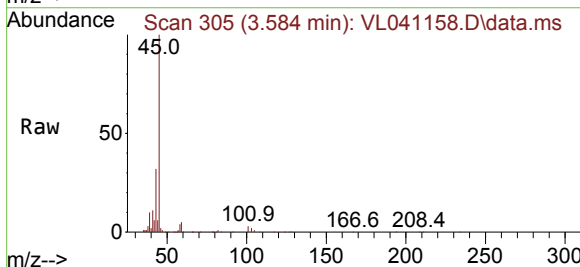
Instrument :
MSVOA_L
ClientSampleId :

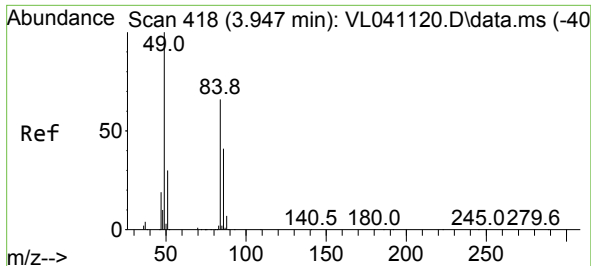
Tgt Ion: 43 Resp: 1174162
Ion Ratio Lower Upper
43 100
58 26.9 21.1 31.7



#19
Isopropyl Alcohol
Concen: 4.098 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.010 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

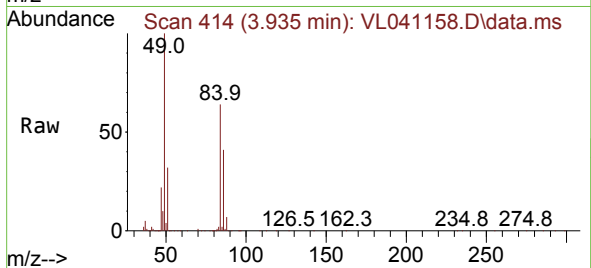
Tgt Ion: 45 Resp: 299508
Ion Ratio Lower Upper
45 100
58 4.3 2.8 4.2#





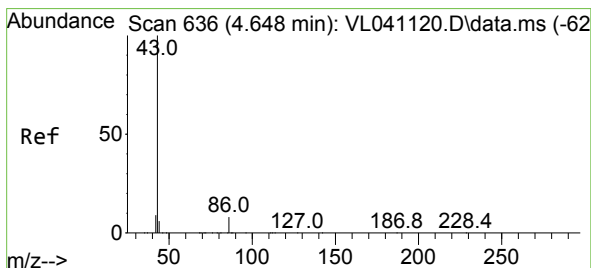
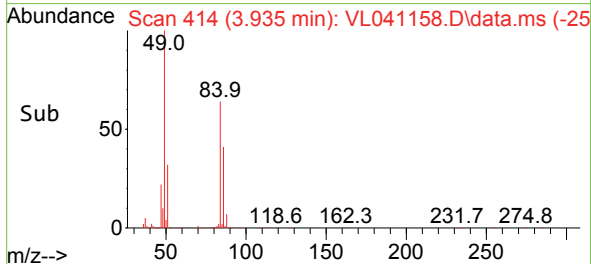
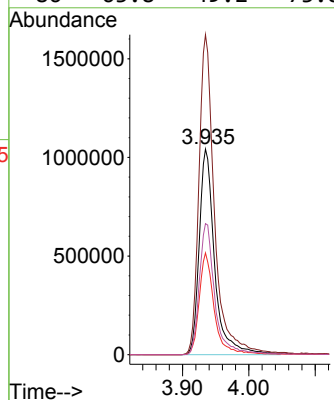
#20
Methylene Chloride
Concen: 34.037 ppbv
RT: 3.935 min Scan# 418
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 1689001

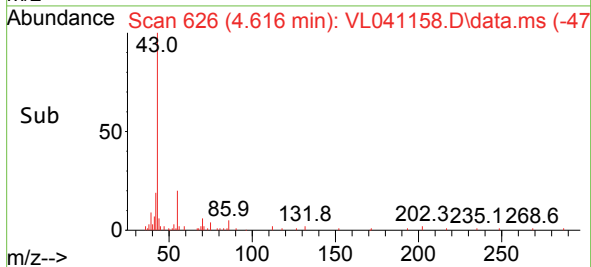
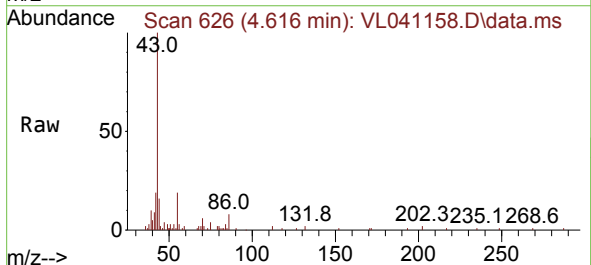
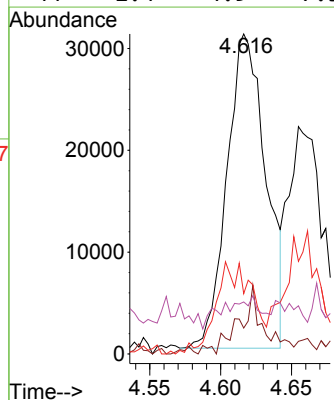
Ion	Ratio	Lower	Upper
84	100		
49	155.6	120.7	181.1
51	49.5	36.6	54.8
86	63.8	49.2	73.8

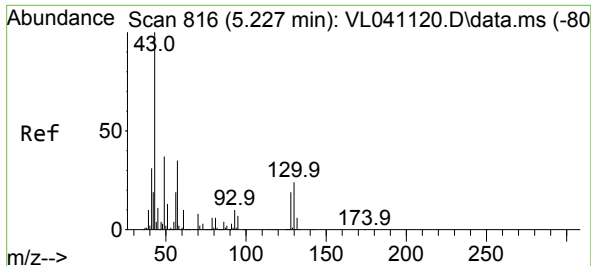


#23
Vinyl Acetate
Concen: 0.479 ppbv
RT: 4.616 min Scan# 626
Delta R.T. -0.007 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 43 Resp: 58845

Ion	Ratio	Lower	Upper
43	100		
86	6.9	6.2	9.4
42	18.1	7.7	11.5#
44	2.4	4.9	7.3#



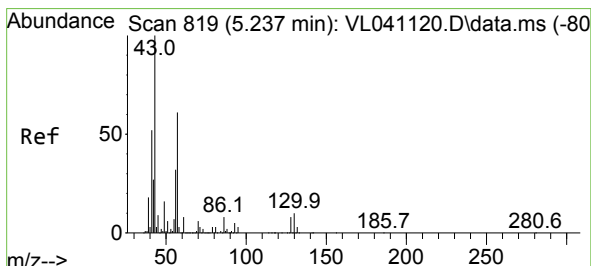
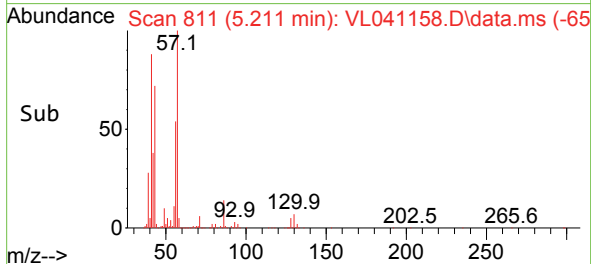
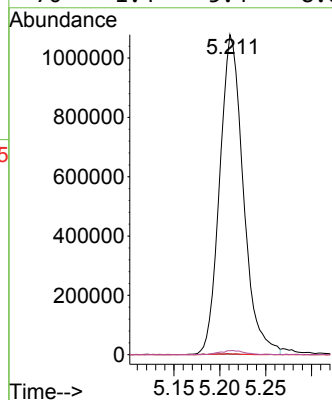
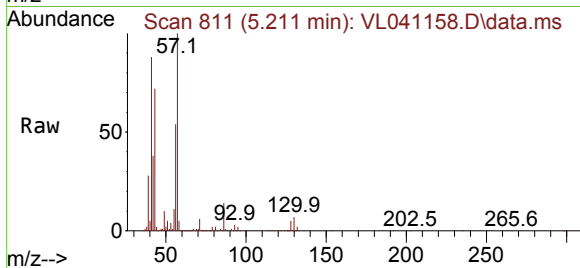


#25
Ethyl Acetate
Concen: 8.546 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 43 Resp: 1930972

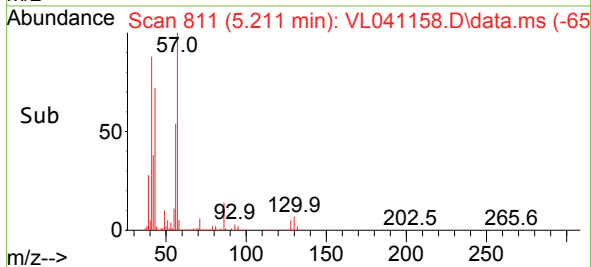
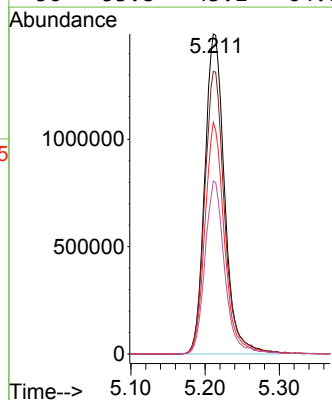
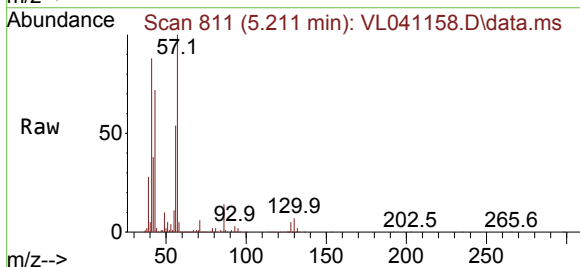
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.0	12.0#
61	0.2	7.8	11.6#
70	1.4	5.4	8.0#

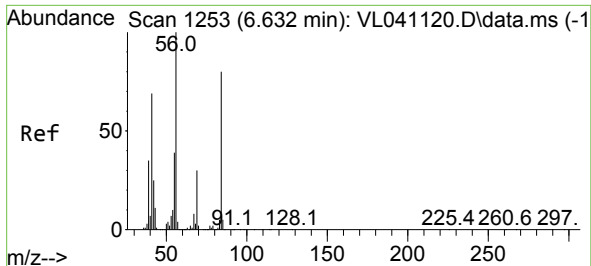


#26
Hexane
Concen: 27.181 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 57 Resp: 2755758

Ion	Ratio	Lower	Upper
57	100		
41	89.6	73.8	110.8
43	71.3	186.2	279.2#
56	53.8	43.1	64.7

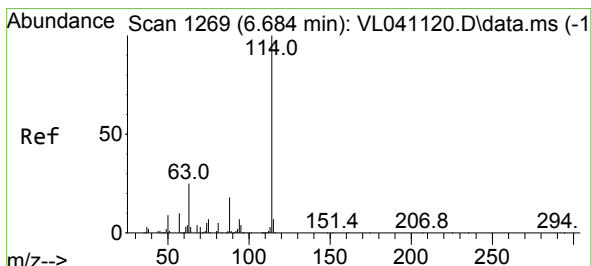
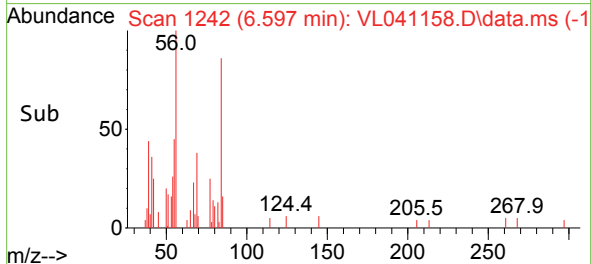
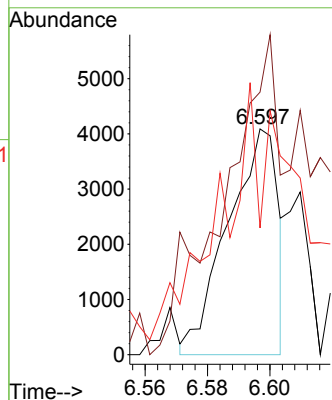
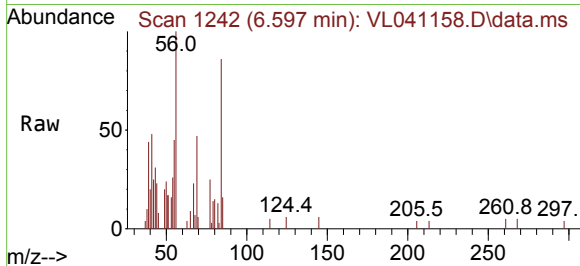




#30
Cyclohexane
Concen: 0.055 ppbv
RT: 6.597 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

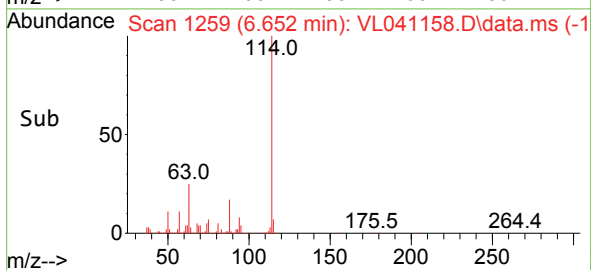
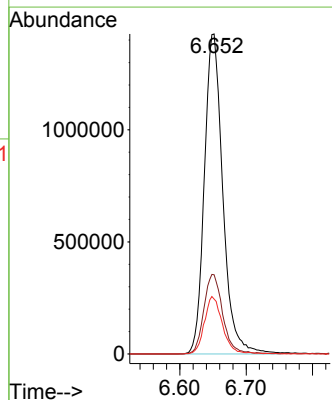
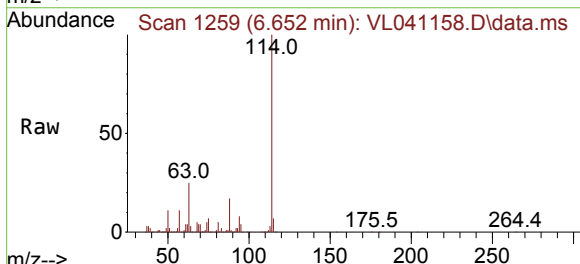
Instrument :
MSVOA_L
ClientSampleId :

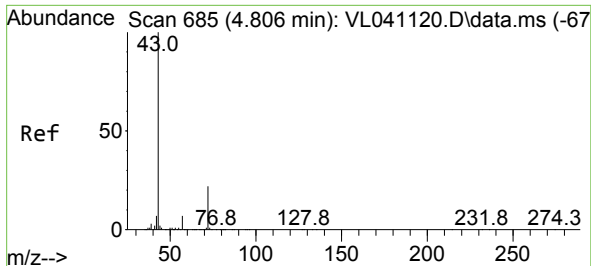
Tgt Ion: 84 Resp: 4547
Ion Ratio Lower Upper
84 100
56 0.0 111.9 167.9#
41 231.3 71.0 106.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. 0.006 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 114 Resp: 2762708
Ion Ratio Lower Upper
114 100
63 25.7 20.9 31.3
88 17.7 14.5 21.7

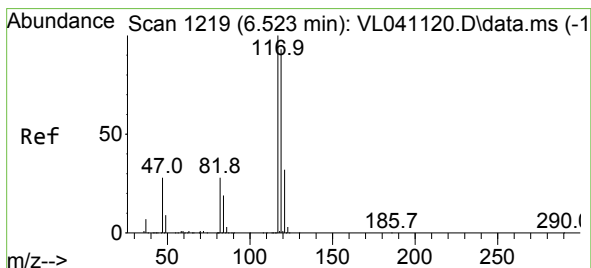
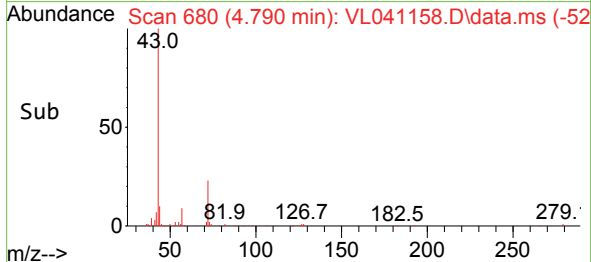
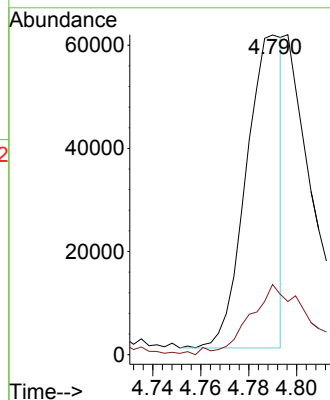
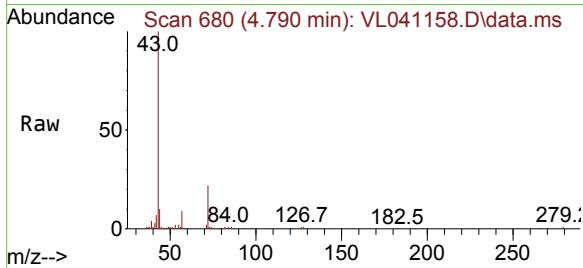




#34
2-Butanone
Concen: 0.535 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

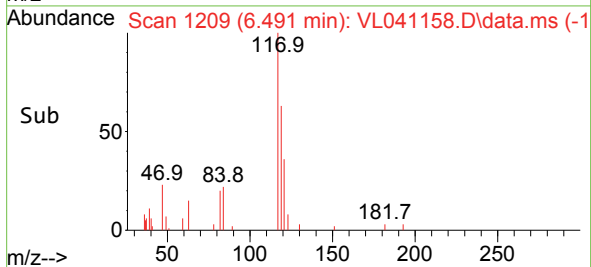
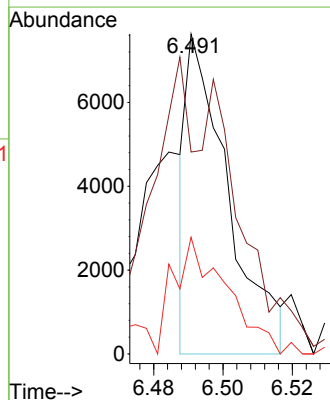
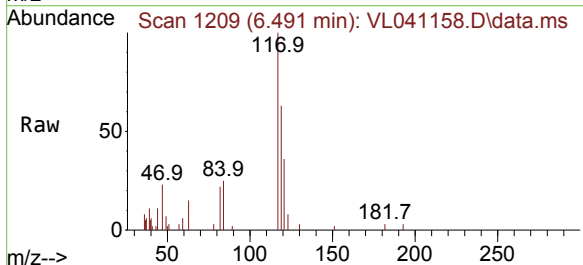
Instrument :
MSVOA_L
ClientSampleId :

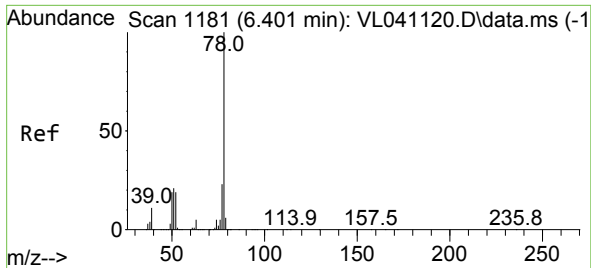
Tgt Ion: 43 Resp: 62577
Ion Ratio Lower Upper
43 100
72 41.5 17.6 26.4#



#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 6.491 min Scan# 1209
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 117 Resp: 6324
Ion Ratio Lower Upper
117 100
119 53.3 74.2 111.4#
121 42.8 25.4 38.2#

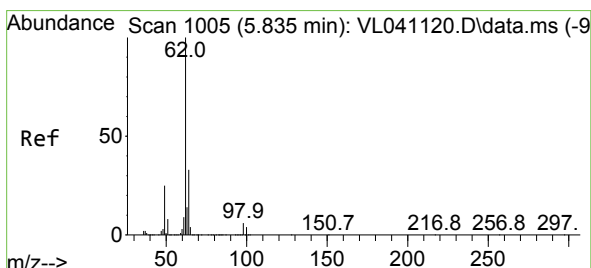
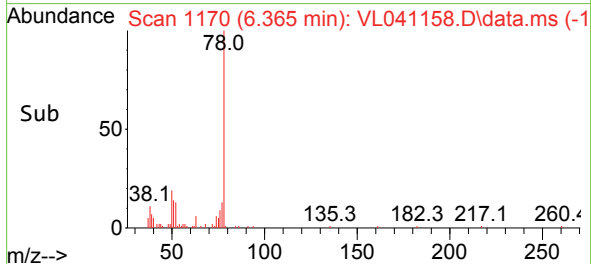
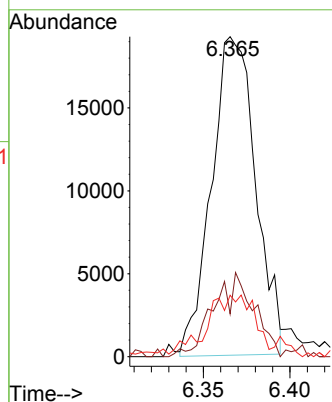
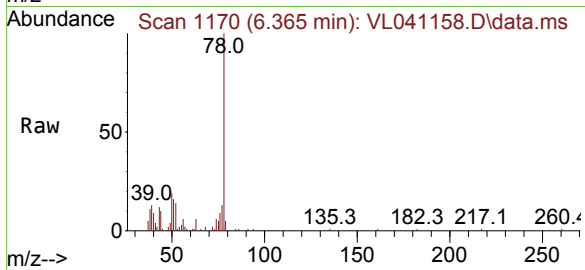




#36
Benzene
Concen: 0.168 ppbv
RT: 6.365 min Scan# 1181
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

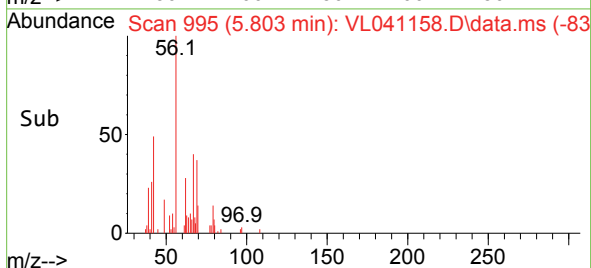
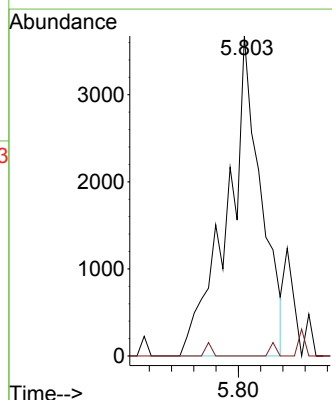
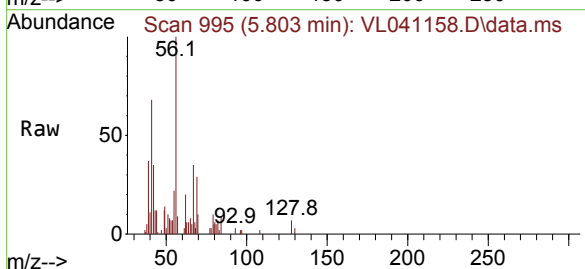
Instrument :
MSVOA_L
ClientSampleId :

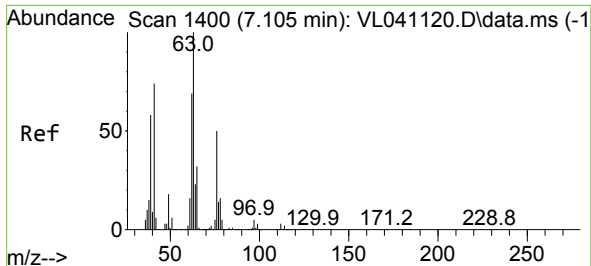
Tgt Ion: 78 Resp: 34128
Ion Ratio Lower Upper
78 100
77 13.6 18.2 27.4#
50 31.2 15.4 23.2#



#37
1,2-Dichloroethane
Concen: 0.032 ppbv
RT: 5.803 min Scan# 995
Delta R.T. 0.003 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 62 Resp: 3863
Ion Ratio Lower Upper
62 100
98 0.8 4.6 7.0#





#39

1,2-Dichloropropane

Concen: 8.653 ppbv

RT: 6.648 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL041158.D

Acq: 23 Apr 2024 13:21

Instrument :

MSVOA_L

ClientSampleId :

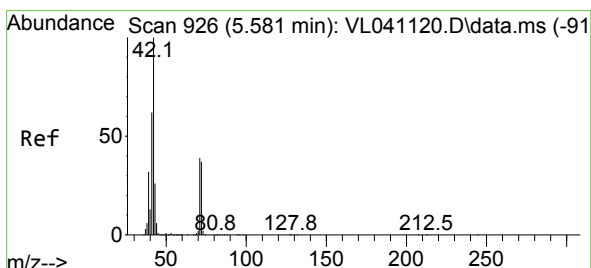
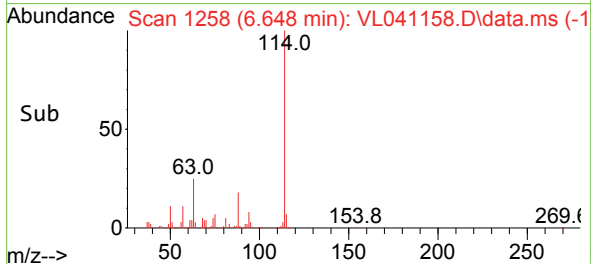
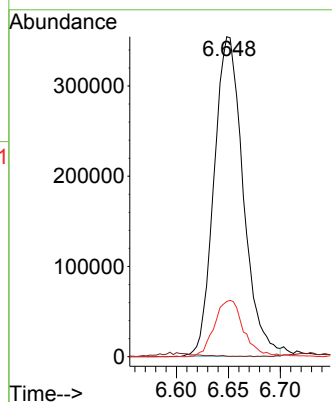
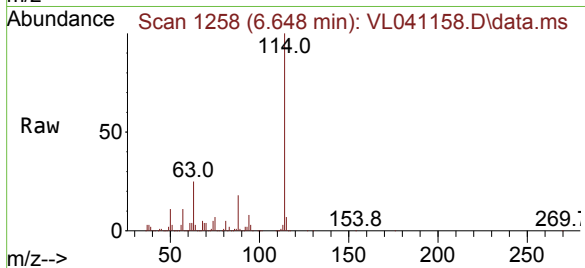
Tgt Ion: 63 Resp: 692204

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 17.2 55.5 83.3#



#41

Tetrahydrofuran

Concen: 13.455 ppbv

RT: 5.211 min Scan# 811

Delta R.T. -0.338 min

Lab File: VL041158.D

Acq: 23 Apr 2024 13:21

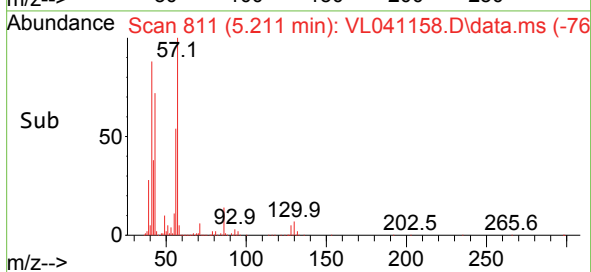
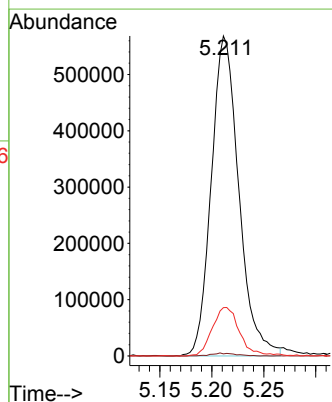
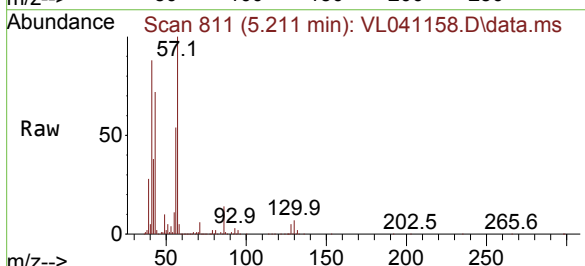
Tgt Ion: 42 Resp: 1047307

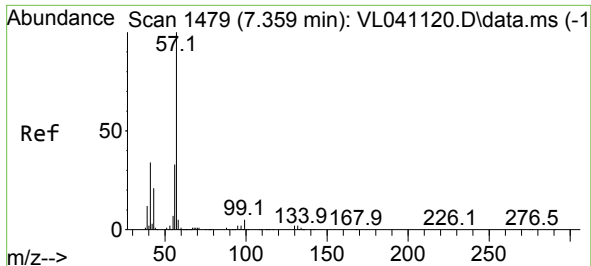
Ion Ratio Lower Upper

42 100

72 0.8 31.2 46.8#

71 15.3 29.9 44.9#

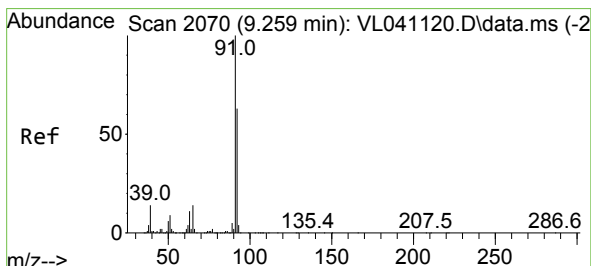
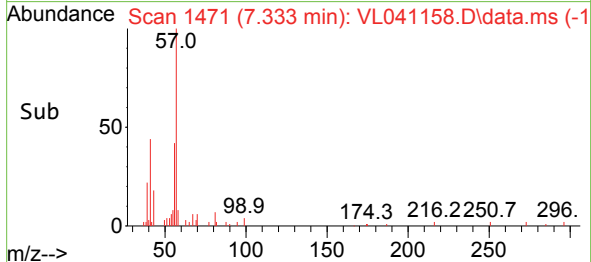
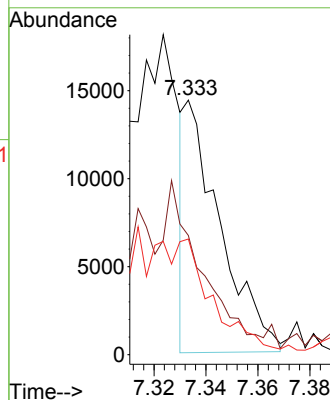
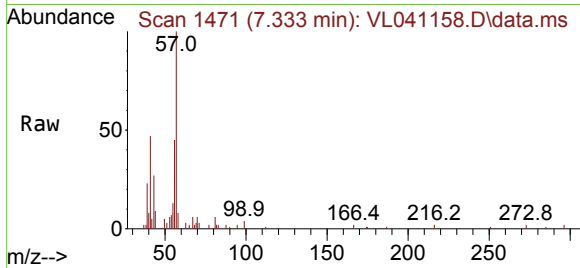




#44
2,2,4-Trimethylpentane
Concen: 0.040 ppbv
RT: 7.333 min Scan# 1479
Delta R.T. 0.013 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

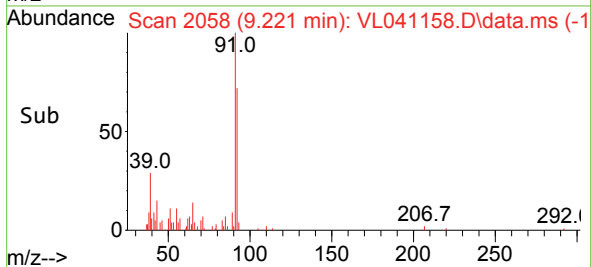
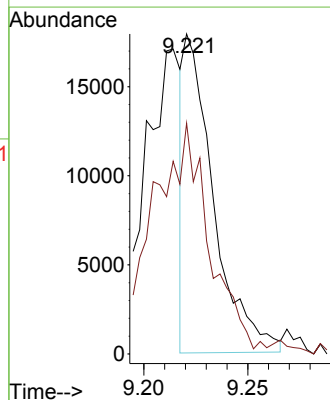
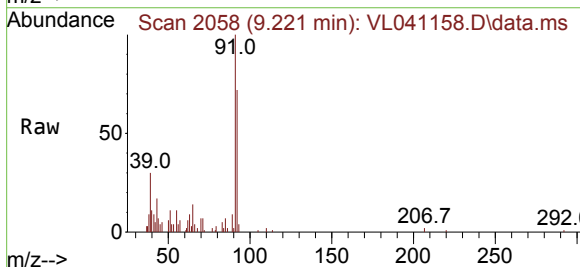
Instrument :
MSVOA_L
ClientSampleId :

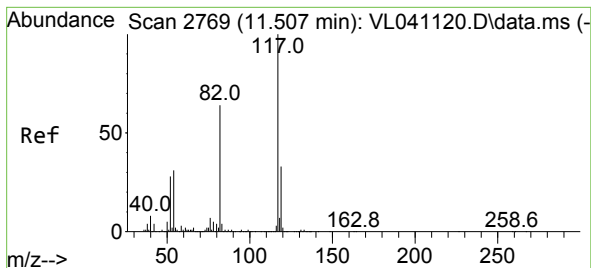
Tgt Ion: 57 Resp: 13565
Ion Ratio Lower Upper
57 100
41 0.0 28.2 42.2#
56 0.0 25.2 37.8#



#53
Toluene
Concen: 0.083 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. 0.010 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 91 Resp: 17703
Ion Ratio Lower Upper
91 100
92 144.1 49.0 73.4#

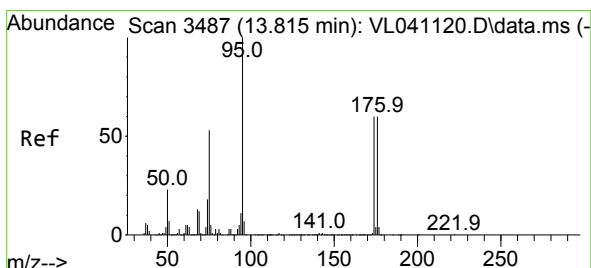
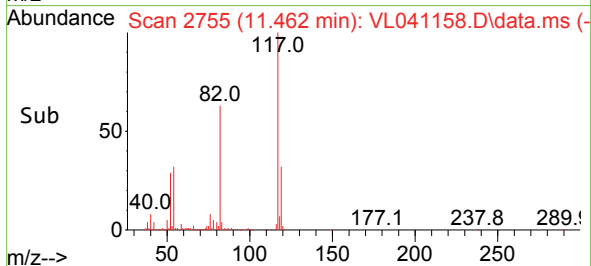
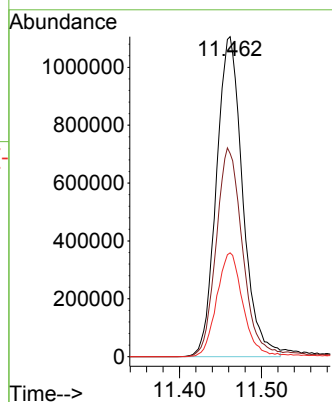
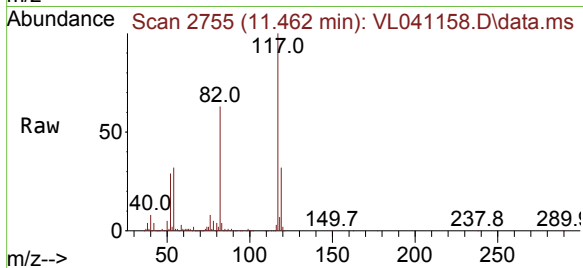




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2464504
Ion Ratio Lower Upper
117 100
82 67.2 51.0 76.6
119 33.6 25.2 37.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.648 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.006 min
Lab File: VL041158.D
Acq: 23 Apr 2024 13:21

Tgt Ion: 95 Resp: 1912091
Ion Ratio Lower Upper
95 100
174 61.9 49.3 73.9
175 4.6 3.6 5.4

