

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL100423\
 Data File : VL040747.D
 Acq On : 4 Oct 2023 19:33
 Operator : SY/MD
 Sample : 04716-13 LOD 0.40
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 05 04:28:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091423AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 19 05:12:43 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.189	49	794770	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2233863	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	1838768	10.000	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.761	95	1466420	10.322	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.200%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.742	85	98437	0.562	ppbv	100
3) Chlorodifluoromethane	2.687	51	71226	0.550	ppbv	97
4) Chloromethane	2.825	50	26943	0.544	ppbv #	88
5) Vinyl Chloride	2.928	62	26192	0.447	ppbv	95
6) Bromomethane	3.131	94	14028	0.496	ppbv	97
7) Chloroethane	3.202	64	11590	0.576	ppbv #	82
8) Dichlorotetrafluoroethane	2.867	85	73650	0.509	ppbv	96
9) Propene	2.706	41	17560	0.471	ppbv	98
10) Heptane	7.571	43	23048	0.274	ppbv #	72
11) Trichlorofluoromethane	3.568	101	86322	0.561	ppbv	92
12) 1,1,2-Trichlorotrifluo...	4.066	101	61318	0.557	ppbv	97
13) Ethanol	3.269	45	4554	0.412	ppbv	83
14) Bromoethene	3.375	108	23353	0.506	ppbv	95
15) Acetone	3.491	43	68139	0.650	ppbv	98
16) 1,3-Butadiene	2.986	39	5758	0.126	ppbv #	9
17) tert-Butyl alcohol	3.899	59	42312	0.394	ppbv	94
18) 1,1-Dichloroethene	3.886	96	23540	0.481	ppbv	78
19) Isopropyl Alcohol	3.597	45	26916	0.426	ppbv #	80
20) Methylene Chloride	3.935	84	35246	0.625	ppbv	94
21) Allyl Chloride	3.996	41	32814	0.511	ppbv	94
22) trans-1,2-Dichloroethene	4.439	96	24556	0.507	ppbv #	69
23) Vinyl Acetate	4.632	43	49476	0.456	ppbv #	79
24) 1,1-Dichloroethane	4.565	63	53451	0.527	ppbv #	94
25) Ethyl Acetate	5.211	43	74563	0.441	ppbv #	96
26) Hexane	5.211	57	15389	0.192	ppbv #	1
27) Carbon Disulfide	4.128	76	53212	0.477	ppbv #	90
28) Methyl tert-Butyl Ether	4.594	73	19031	0.277	ppbv #	52
29) Chloroform	5.269	83	69092	0.501	ppbv	97
30) Cyclohexane	6.587	84	6639	0.110	ppbv #	1
31) cis-1,2-Dichloroethene	5.073	61	31969	0.431	ppbv	92
32) 1,1,1-Trichloroethane	5.996	97	64238	0.455	ppbv	97
34) 2-Butanone	4.796	43	18098	0.161	ppbv #	52
35) Carbon Tetrachloride	6.488	117	31675	0.207	ppbv	96
36) Benzene	6.356	78	24522	0.148	ppbv	96
37) 1,2-Dichloroethane	5.796	62	27379	0.242	ppbv #	77
38) Trichloroethene	7.282	130	20524	0.325	ppbv #	90
39) 1,2-Dichloropropane	7.066	63	11403	0.179	ppbv #	74
41) Tetrahydrofuran	5.578	42	11313	0.196	ppbv #	44
42) Bromodichloromethane	7.237	83	63194	0.409	ppbv #	95
43) Methyl Methacrylate	7.471	69	12436	0.202	ppbv #	48
44) 2,2,4-Trimethylpentane	7.317	57	88361	0.335	ppbv #	84
45) t-1,3-Dichloropropene	8.722	75	1947	0.041	ppbv	100
46) cis-1,3-Dichloropropene	8.127	75	9211	0.158	ppbv #	84

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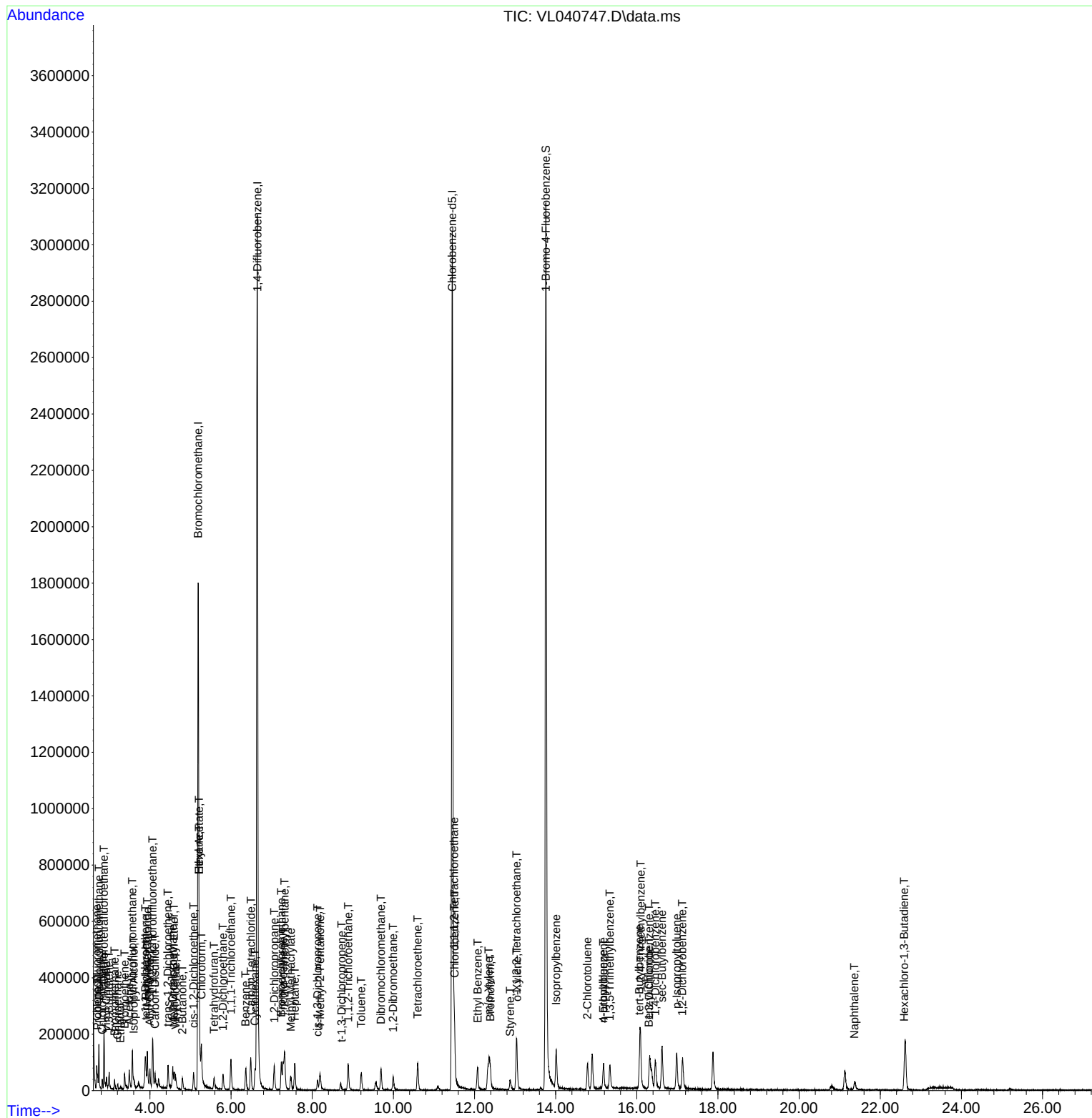
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	8.886	97	11380	0.156	ppbv #	59
48) Dibromochloromethane	9.696	129	45868	0.381	ppbv	94
49) Bromoform	12.391	173	34518	0.349	ppbv	95
50) 4-Methyl-2-Pentanone	8.195	43	45922	0.302	ppbv	95
52) Tetrachloroethene	10.597	164	11148	0.207	ppbv	84
53) Toluene	9.208	91	30215	0.173	ppbv #	48
54) 1,2-Dibromoethane	9.995	107	33521	0.359	ppbv	84
56) 1,1,1,2-Tetrachloroethane	11.494	131	24786	0.283	ppbv #	29
57) Chlorobenzene	11.510	112	32216	0.231	ppbv	95
58) Ethyl Benzene	12.079	91	31580	0.151	ppbv	98
59) m/p-Xylene	12.349	91	33195	0.169	ppbv #	32
60) o-Xylene	13.047	91	56481	0.301	ppbv	99
61) Styrene	12.876	104	8921	0.113	ppbv #	6
62) Isopropylbenzene	14.011	105	58693	0.207	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	13.034	83	63885	0.434	ppbv	95
64) n-propylbenzene	15.172	120	3472	0.049	ppbv	70
65) tert-Butylbenzene	16.060	119	19917	0.078	ppbv #	15
66) Benzyl Chloride	16.297	91	1059	0.036	ppbv #	66
67) sec-Butylbenzene	16.619	105	68006	0.187	ppbv #	60
69) p-Isopropyltoluene	16.986	119	89602	0.313	ppbv #	93
71) 2-Chlorotoluene	14.783	91	68076	0.325	ppbv	95
72) 4-Ethyltoluene	15.172	105	32155	0.153	ppbv #	40
73) 1,3,5-Trimethylbenzene	15.336	105	60814	0.321	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.095	105	83310	0.361	ppbv	91
75) 1,3-Dichlorobenzene	16.304	146	20427	0.155	ppbv #	23
76) 1,4-Dichlorobenzene	16.458	146	49453	0.382	ppbv	88
77) 1,2-Dichlorobenzene	17.121	146	23016	0.176	ppbv #	22
78) Hexachloro-1,3-Butadiene	22.587	225	5153	0.052	ppbv #	18
79) Naphthalene	21.362	128	11763	0.082	ppbv #	93

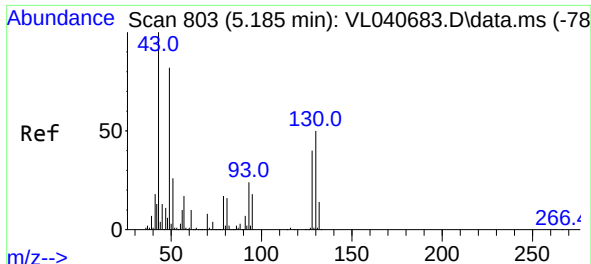
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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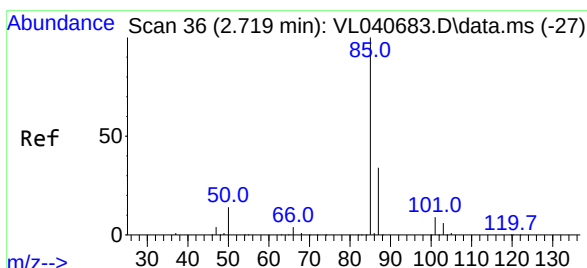
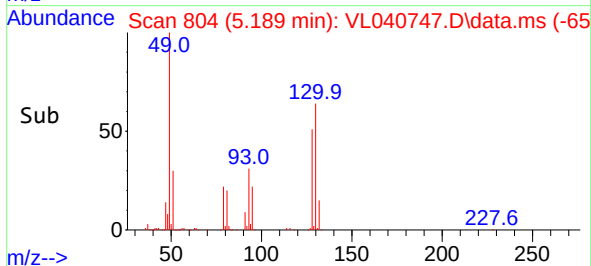
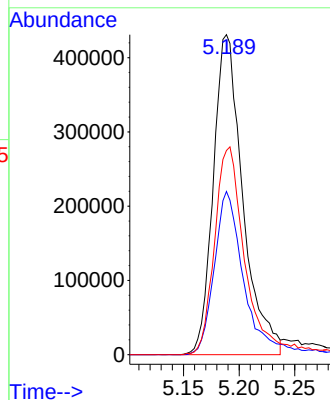
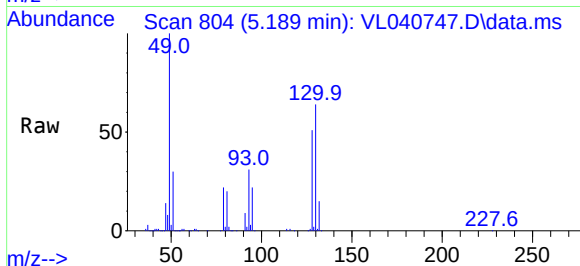




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. -0.009 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

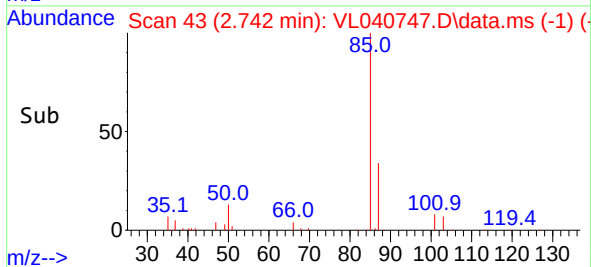
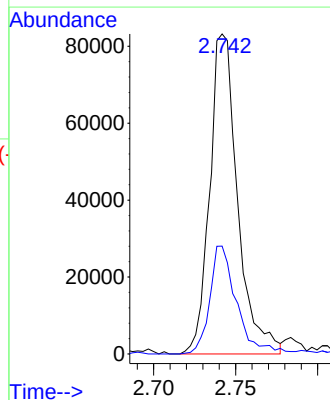
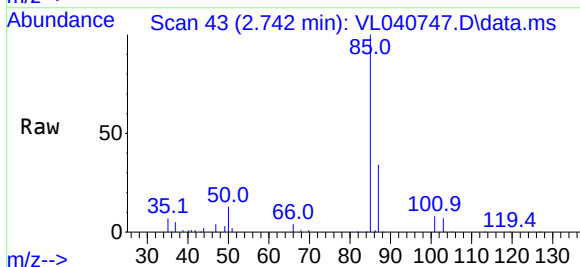
Instrument :
MSVOA_L
ClientSampleId :

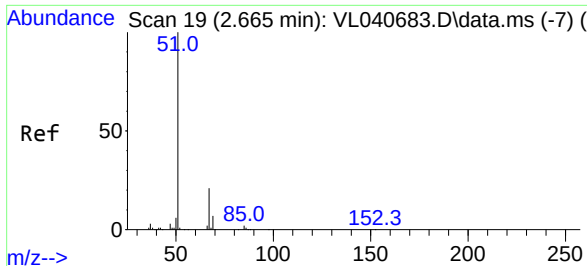
Tgt Ion: 49 Resp: 794770
Ion Ratio Lower Upper
49 100
128 52.5 25.4 76.0
130 68.8 32.3 96.8



#2
Dichlorodifluoromethane
Concen: 0.562 ppbv
RT: 2.742 min Scan# 43
Delta R.T. 0.010 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 85 Resp: 98437
Ion Ratio Lower Upper
85 100
87 33.7 27.2 40.8

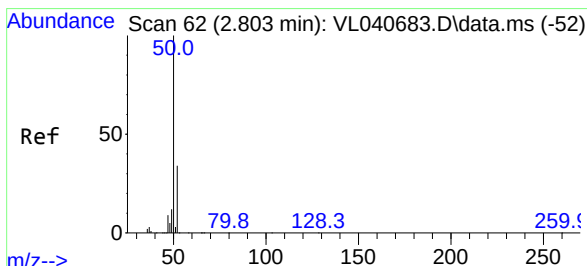
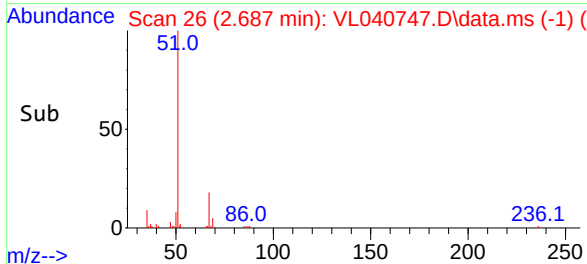
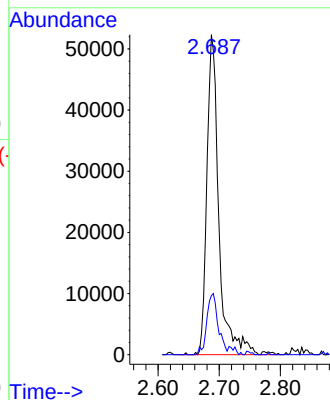
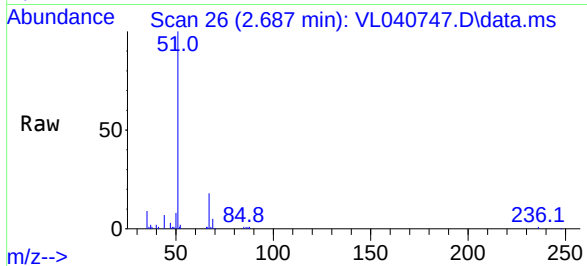




#3
Chlorodifluoromethane
Concen: 0.550 ppbv
RT: 2.687 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

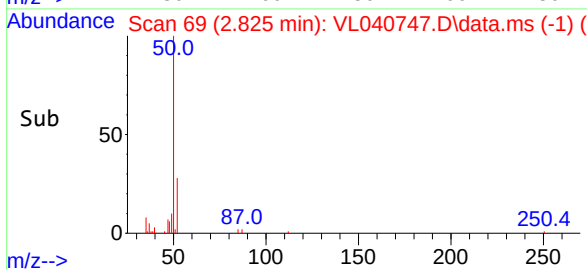
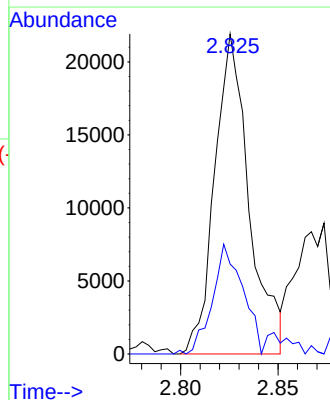
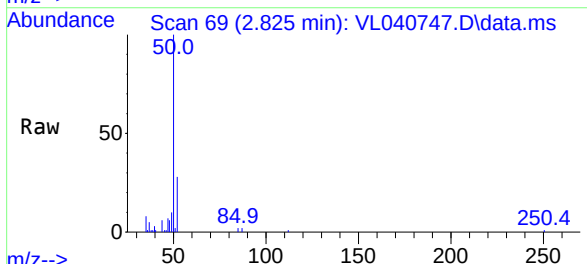
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 71226
Ion Ratio Lower Upper
51 100
67 19.5 16.7 25.1

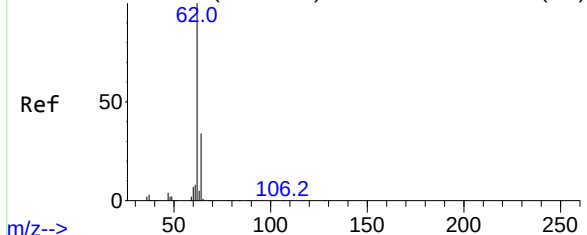


#4
Chloromethane
Concen: 0.544 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.010 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

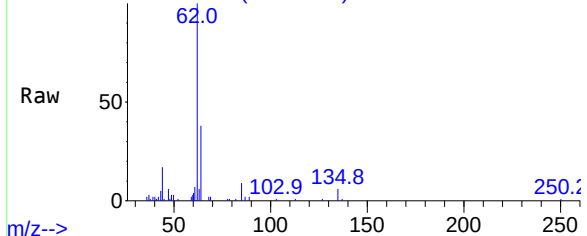
Tgt Ion: 50 Resp: 26943
Ion Ratio Lower Upper
50 100
52 26.9 27.1 40.7#



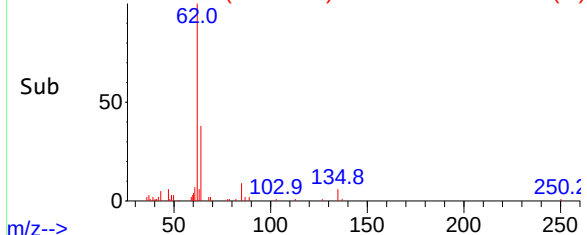
Abundance Scan 95 (2.909 min): VL040683.D\data.ms (-86)



Abundance Scan 101 (2.928 min): VL040747.D\data.ms



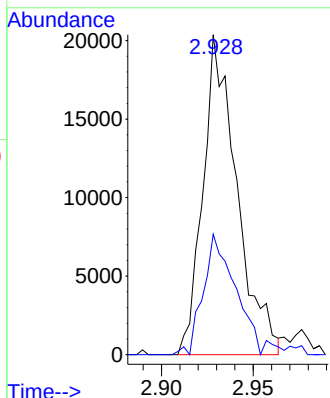
Abundance Scan 101 (2.928 min): VL040747.D\data.ms (-1)



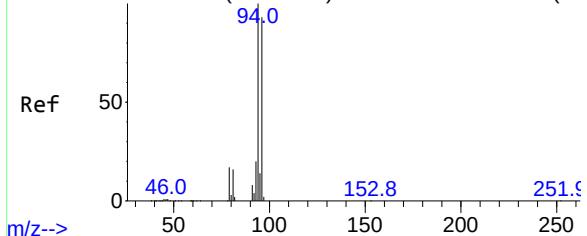
#5
Vinyl Chloride
Concen: 0.447 ppbv
RT: 2.928 min Scan# 101
Delta R.T. 0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :

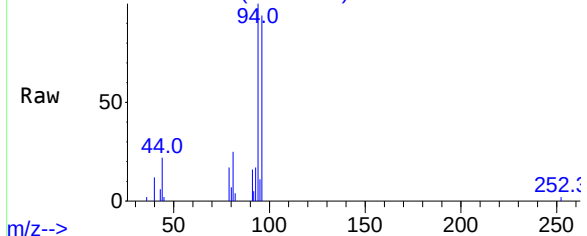
Tgt Ion: 62 Resp: 26192
Ion Ratio Lower Upper
62 100
64 36.7 27.2 40.8



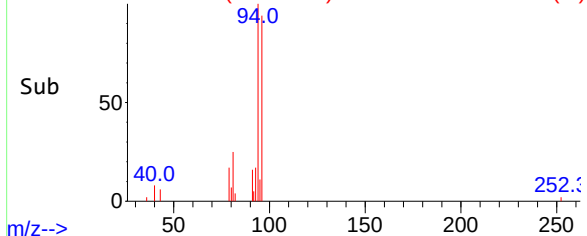
Abundance Scan 157 (3.108 min): VL040683.D\data.ms (-14)



Abundance Scan 164 (3.131 min): VL040747.D\data.ms

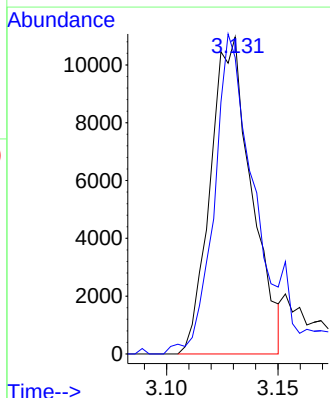


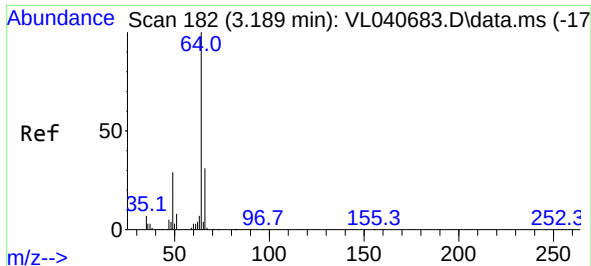
Abundance Scan 164 (3.131 min): VL040747.D\data.ms (-6)



#6
Bromomethane
Concen: 0.496 ppbv
RT: 3.131 min Scan# 164
Delta R.T. 0.007 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 94 Resp: 14028
Ion Ratio Lower Upper
94 100
96 90.5 74.4 111.6

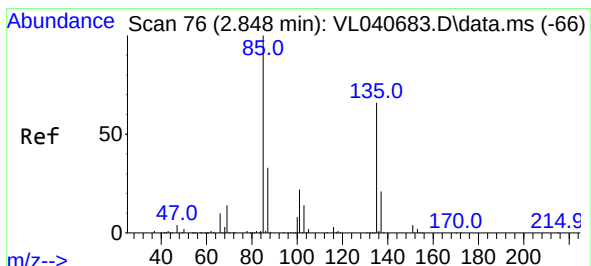
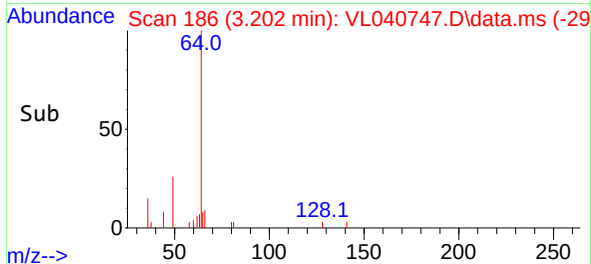
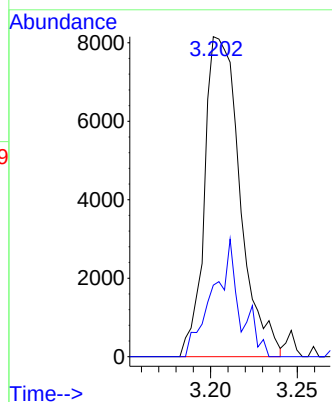
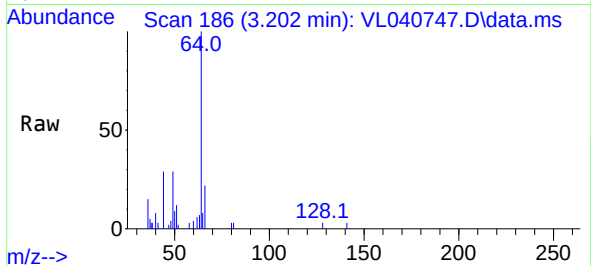




#7
Chloroethane
Concen: 0.576 ppbv
RT: 3.202 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

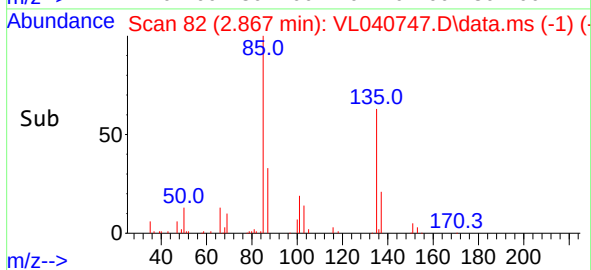
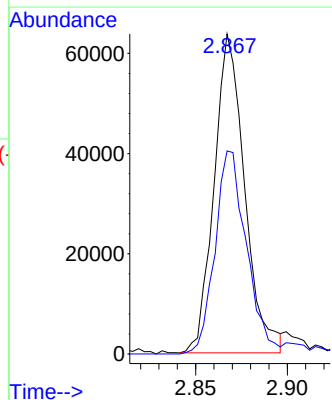
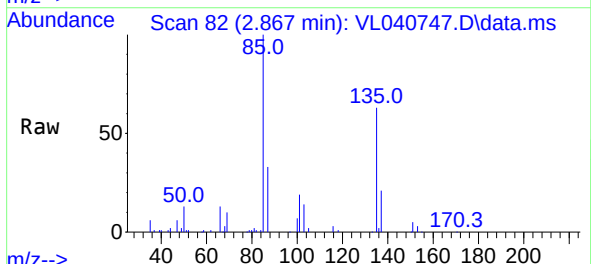
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 64 Resp: 11590
Ion Ratio Lower Upper
64 100
66 20.7 24.5 36.7#

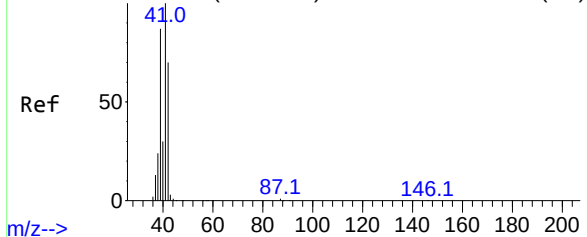


#8
Dichlorotetrafluoroethane
Concen: 0.509 ppbv
RT: 2.867 min Scan# 82
Delta R.T. 0.007 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 85 Resp: 73650
Ion Ratio Lower Upper
85 100
135 70.4 53.4 80.2



Abundance Scan 25 (2.684 min): VL040683.D\data.ms (-16)



#9

Propene

Concen: 0.471 ppbv

RT: 2.706 min Scan# 31

Delta R.T. 0.010 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Instrument :

MSVOA_1

ClientSampleId :

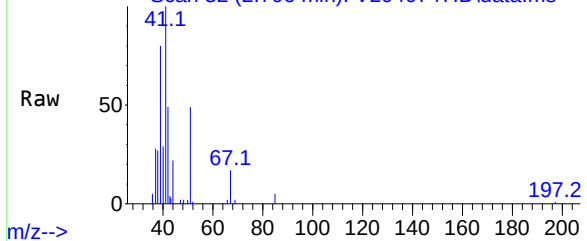
Tgt Ion: 41 Resp: 17560

Ion Ratio Lower Upper

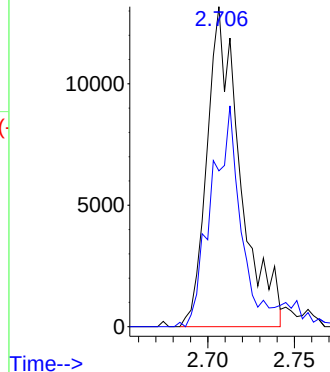
41 100

42 68.9 56.7 85.1

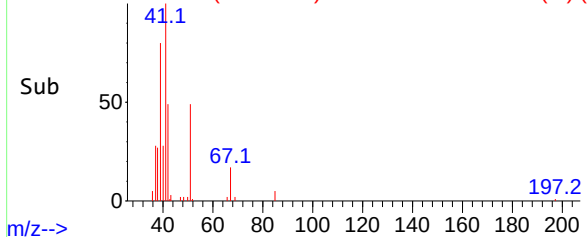
Abundance Scan 32 (2.706 min): VL040747.D\data.ms



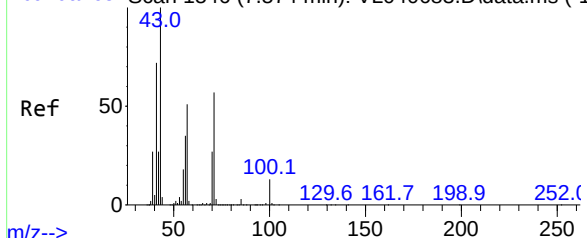
Abundance



Abundance Scan 32 (2.706 min): VL040747.D\data.ms (-1)



Abundance Scan 1546 (7.574 min): VL040683.D\data.ms (-1)



#10

Heptane

Concen: 0.274 ppbv

RT: 7.571 min Scan# 1545

Delta R.T. -0.016 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

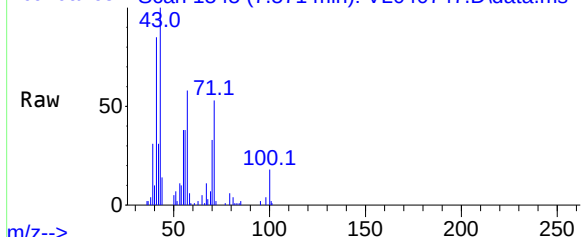
Tgt Ion: 43 Resp: 23048

Ion Ratio Lower Upper

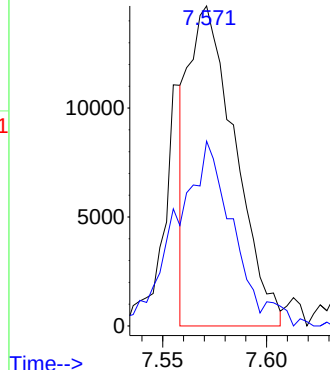
43 100

57 71.8 41.8 62.6#

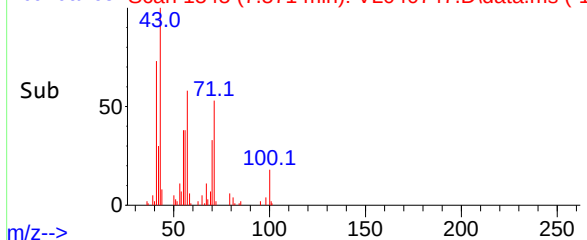
Abundance Scan 1545 (7.571 min): VL040747.D\data.ms

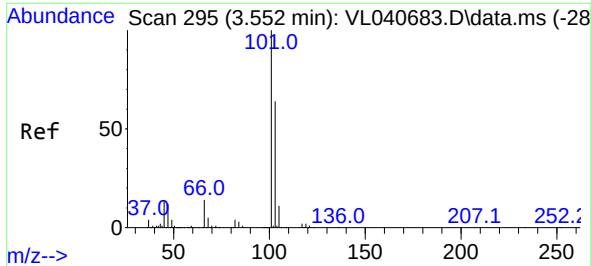


Abundance



Abundance Scan 1545 (7.571 min): VL040747.D\data.ms (-1)

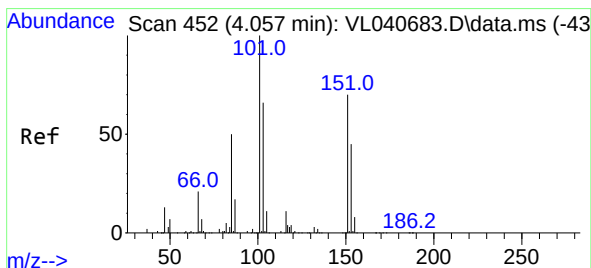
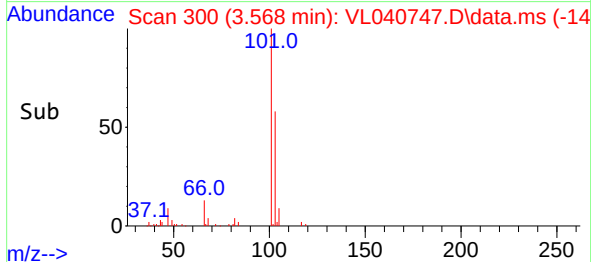
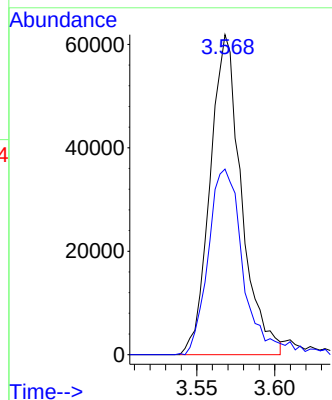
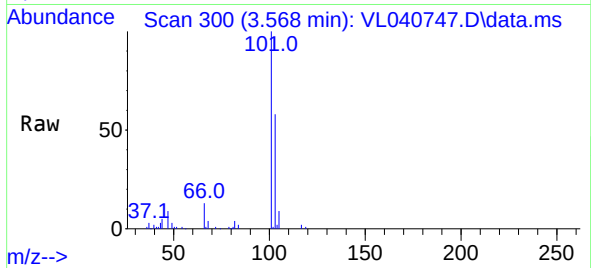




#11
 Trichlorofluoromethane
 Concen: 0.561 ppbv
 RT: 3.568 min Scan# 30
 Delta R.T. 0.000 min
 Lab File: VL040747.D
 Acq: 4 Oct 2023 19:33

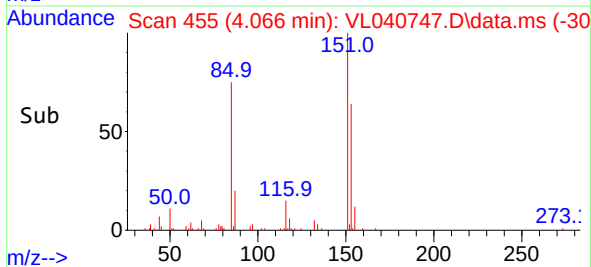
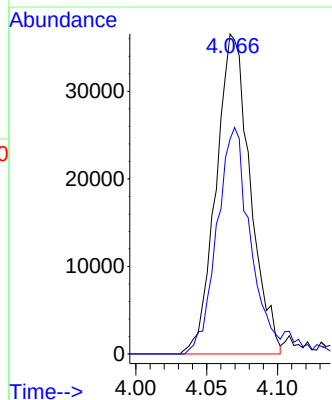
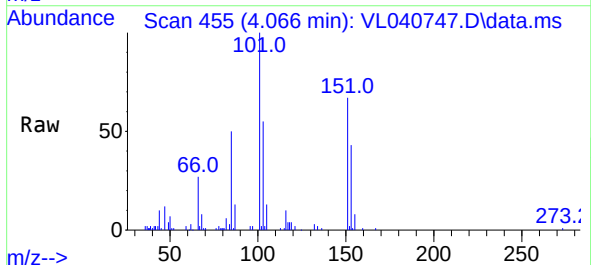
Instrument :
 MSVOA_L
 ClientSampleId :

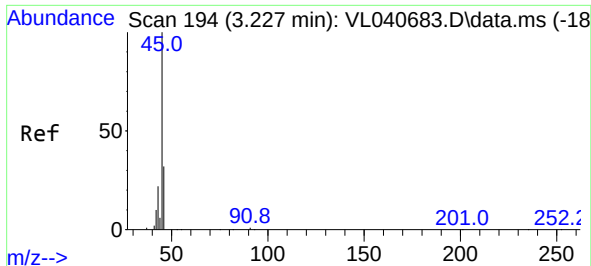
Tgt Ion:101 Resp: 86322
 Ion Ratio Lower Upper
 101 100
 103 57.6 51.3 76.9



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.557 ppbv
 RT: 4.066 min Scan# 455
 Delta R.T. -0.006 min
 Lab File: VL040747.D
 Acq: 4 Oct 2023 19:33

Tgt Ion:101 Resp: 61318
 Ion Ratio Lower Upper
 101 100
 151 73.5 56.8 85.2

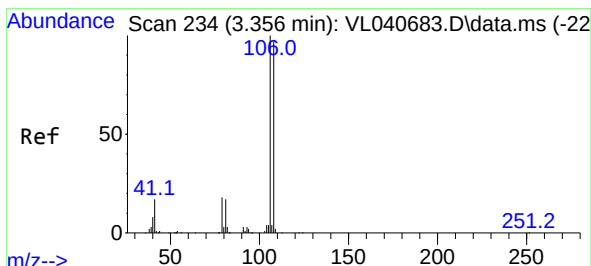
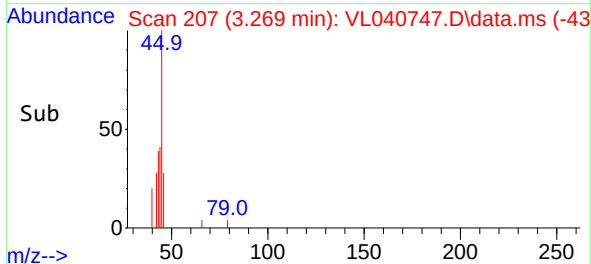
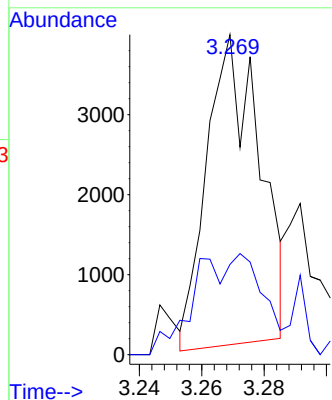
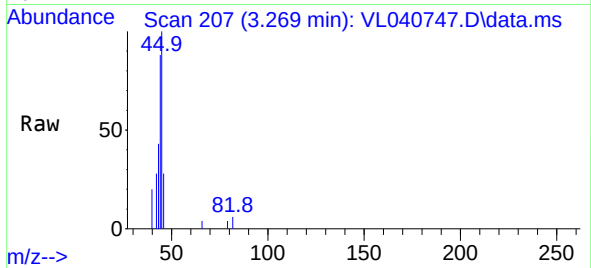




#13
Ethanol
Concen: 0.412 ppbv
RT: 3.269 min Scan# 20
Delta R.T. 0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

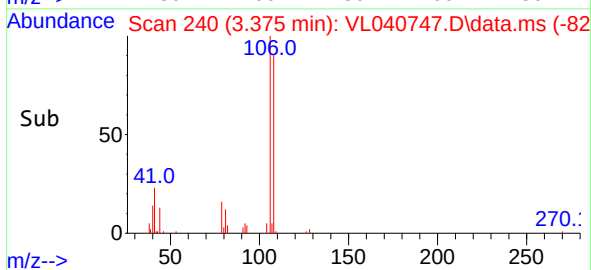
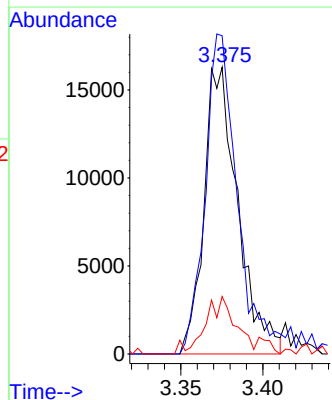
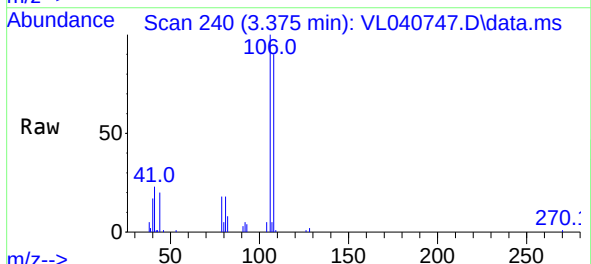
Instrument :
MSVOA_L
ClientSampleId :

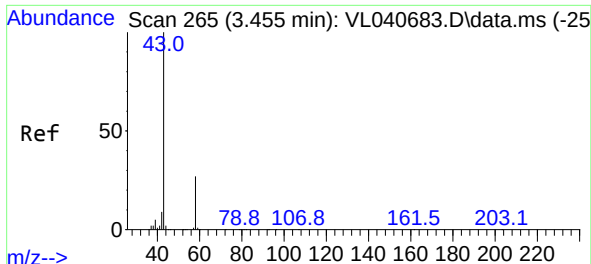
Tgt Ion: 45 Resp: 4554
Ion Ratio Lower Upper
45 100
46 48.6 15.2 61.0



#14
Bromoethene
Concen: 0.506 ppbv
RT: 3.375 min Scan# 240
Delta R.T. 0.007 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:108 Resp: 23353
Ion Ratio Lower Upper
108 100
106 112.6 86.0 129.0
79 21.9 15.6 23.4

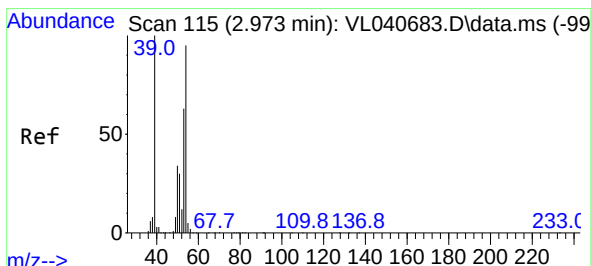
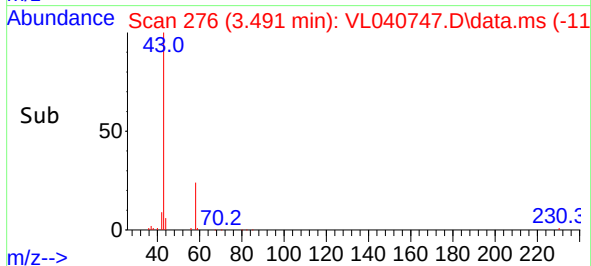
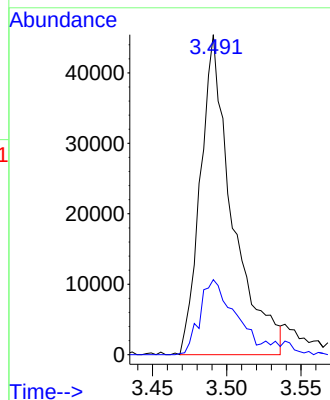
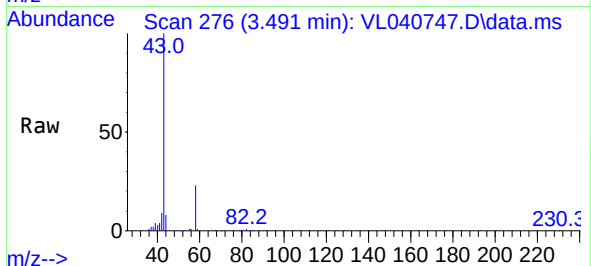




#15
Acetone
Concen: 0.650 ppbv
RT: 3.491 min Scan# 21
Delta R.T. 0.019 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

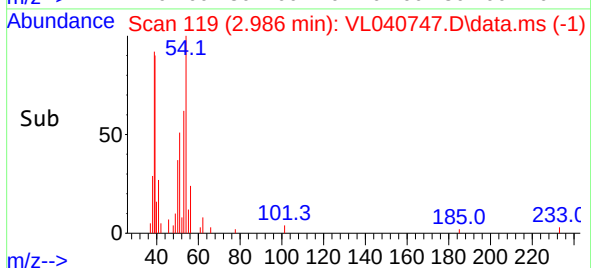
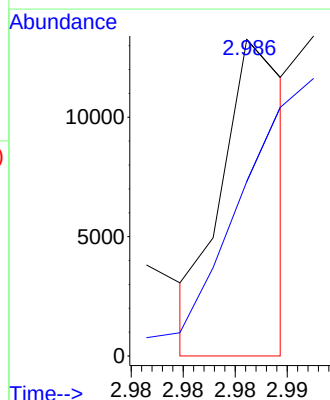
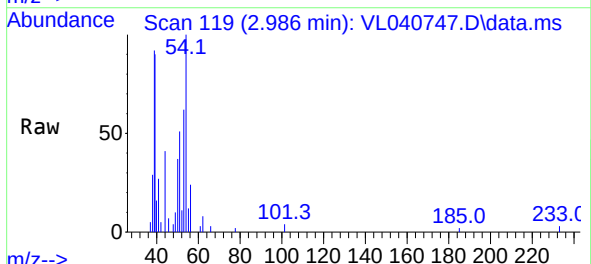
Instrument :
MSVOA_L
ClientSampleId :

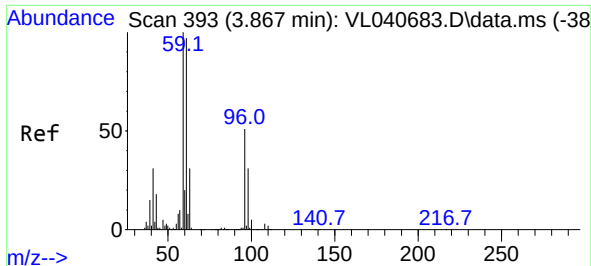
Tgt Ion: 43 Resp: 68139
Ion Ratio Lower Upper
43 100
58 29.2 22.6 34.0



#16
1,3-Butadiene
Concen: 0.126 ppbv
RT: 2.986 min Scan# 119
Delta R.T. -0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 39 Resp: 5758
Ion Ratio Lower Upper
39 100
54 0.0 64.8 97.2#

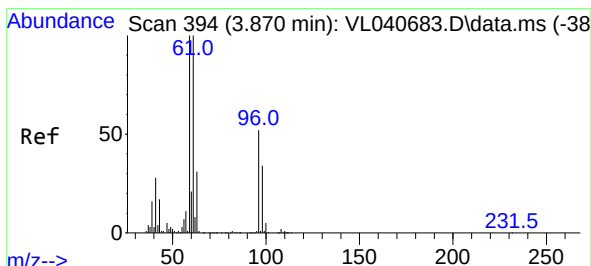
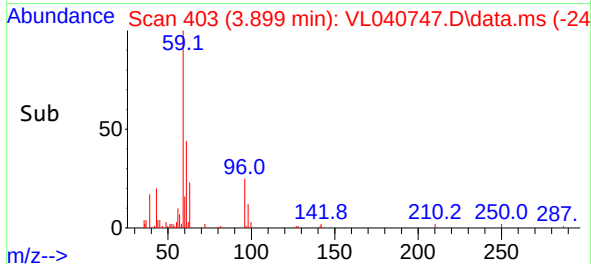
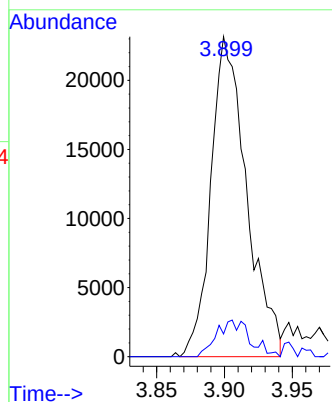
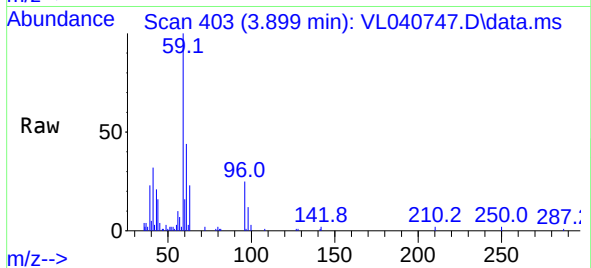




#17
tert-Butyl alcohol
Concen: 0.394 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.016 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

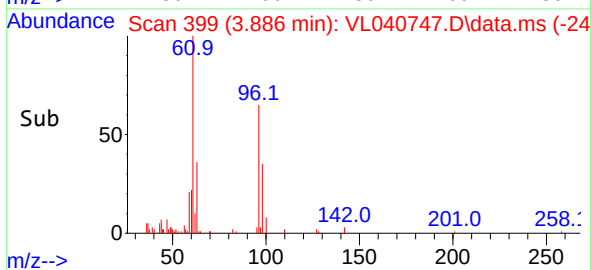
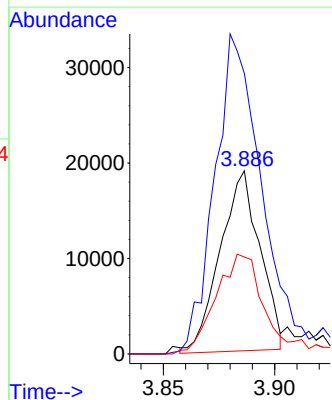
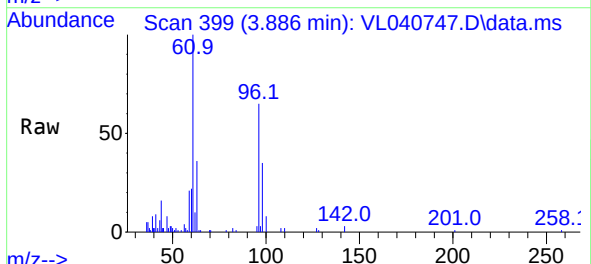
Instrument :
MSVOA_L
ClientSampleId :

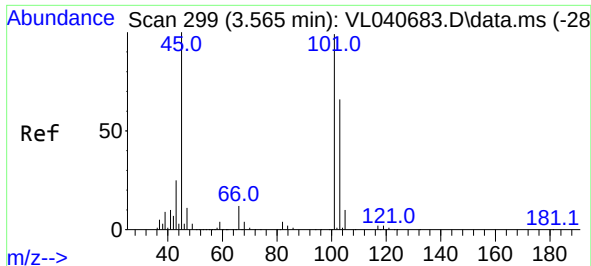
Tgt Ion: 59 Resp: 42312
Ion Ratio Lower Upper
59 100
57 13.0 8.7 13.1



#18
1,1-Dichloroethene
Concen: 0.481 ppbv
RT: 3.886 min Scan# 399
Delta R.T. 0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 96 Resp: 23540
Ion Ratio Lower Upper
96 100
61 157.0 153.6 230.4
98 52.7 51.9 77.9

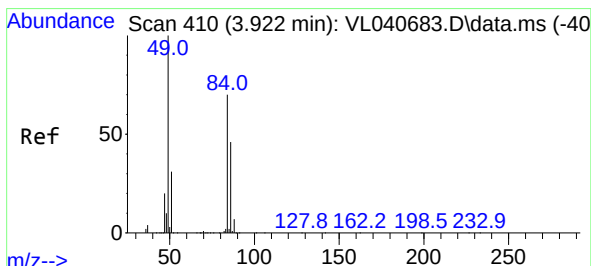
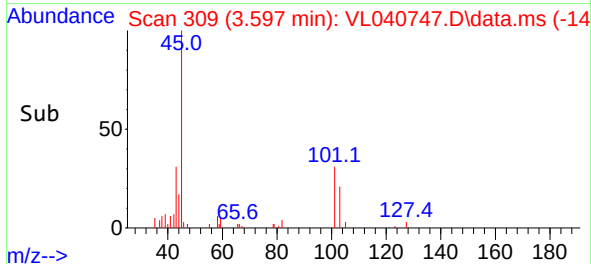
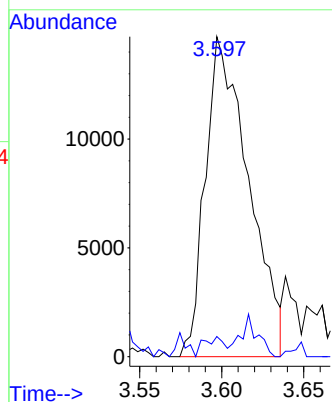
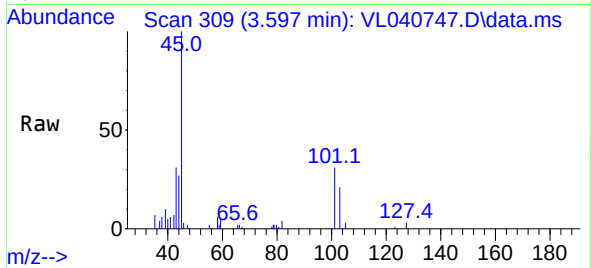




#19
Isopropyl Alcohol
Concen: 0.426 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.019 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

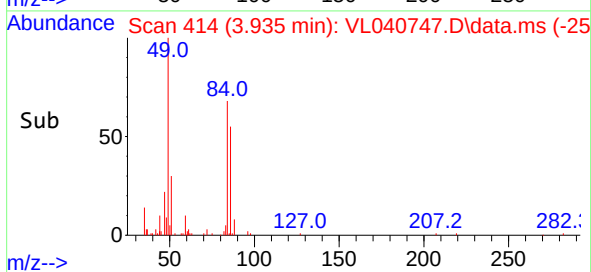
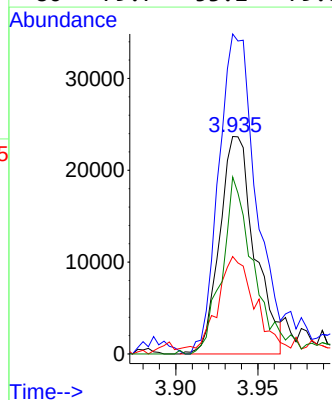
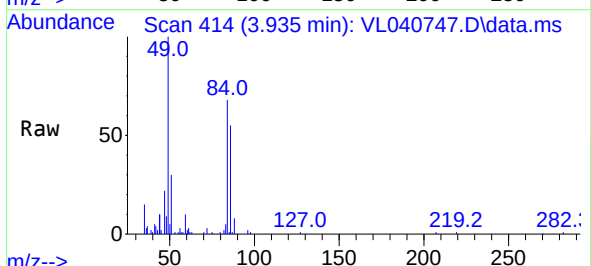
Instrument :
MSVOA_L
ClientSampleId :

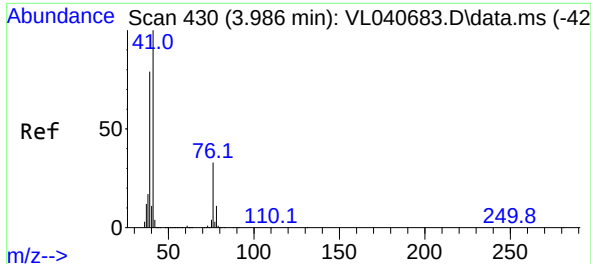
Tgt Ion: 45 Resp: 26916
Ion Ratio Lower Upper
45 100
58 9.2 1.9 2.9#



#20
Methylene Chloride
Concen: 0.625 ppbv
RT: 3.935 min Scan# 414
Delta R.T. -0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 84 Resp: 35246
Ion Ratio Lower Upper
84 100
49 145.9 114.4 171.6
51 42.3 35.5 53.3
86 79.7 53.2 79.8





#21

Allyl Chloride

Concen: 0.511 ppbv

RT: 3.996 min Scan# 41

Delta R.T. -0.006 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

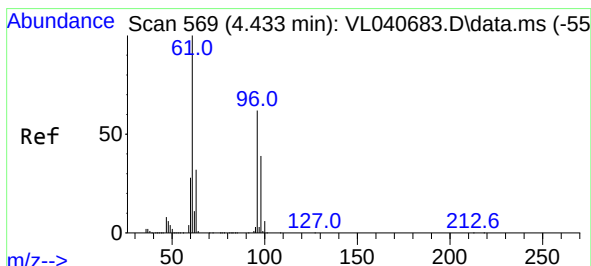
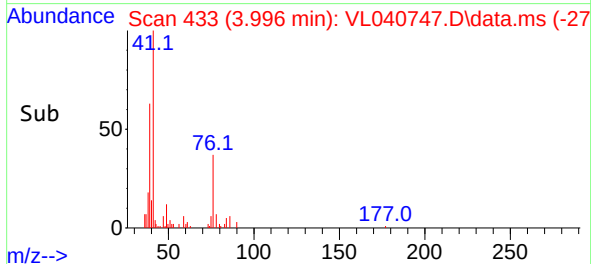
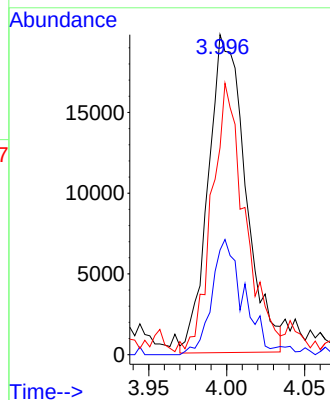
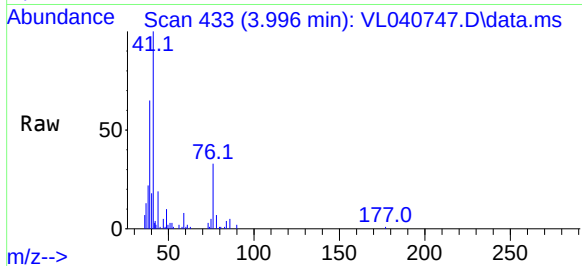
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 41 Resp: 32814

Ion	Ratio	Lower	Upper
41	100		
76	32.8	26.6	40.0
39	88.6	65.0	97.4



#22

trans-1,2-Dichloroethene

Concen: 0.507 ppbv

RT: 4.439 min Scan# 571

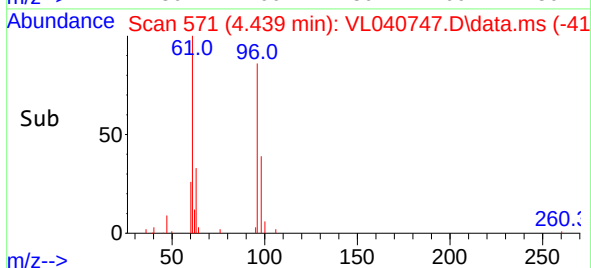
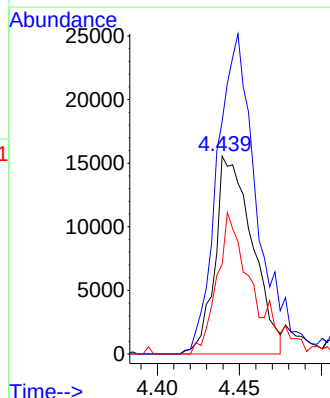
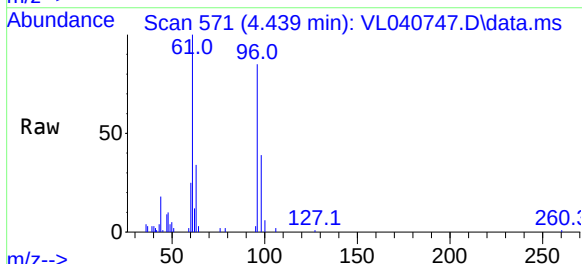
Delta R.T. -0.013 min

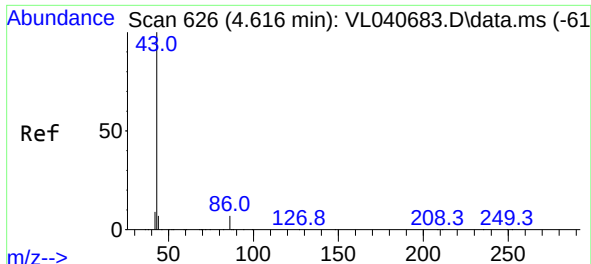
Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Tgt Ion: 96 Resp: 24556

Ion	Ratio	Lower	Upper
96	100		
61	117.6	129.9	194.9#
98	45.4	50.2	75.4#



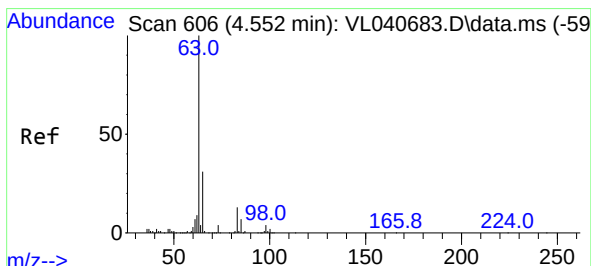
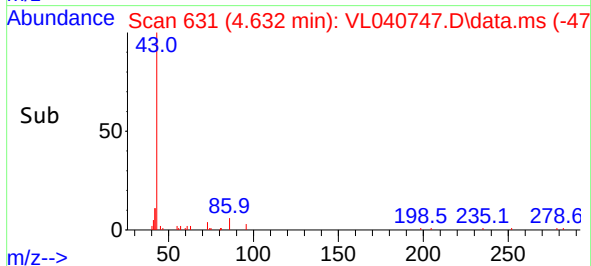
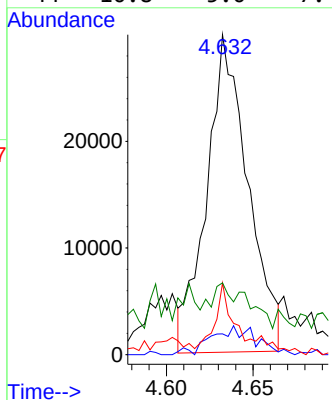
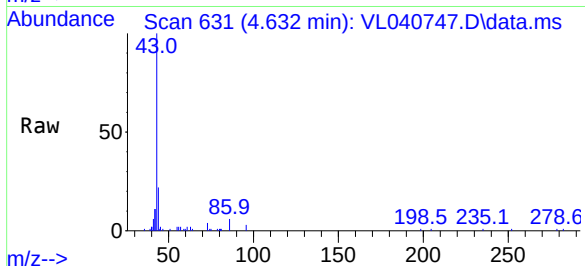


#23
 Vinyl Acetate
 Concen: 0.456 ppbv
 RT: 4.632 min Scan# 610
 Delta R.T. 0.000 min
 Lab File: VL040747.D
 Acq: 4 Oct 2023 19:33

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 49476

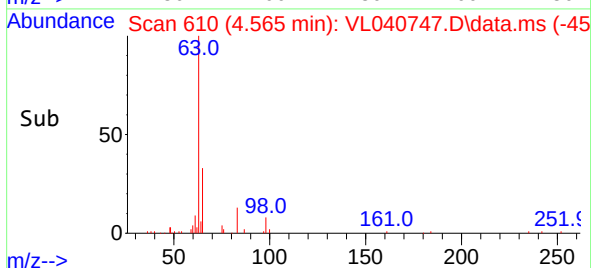
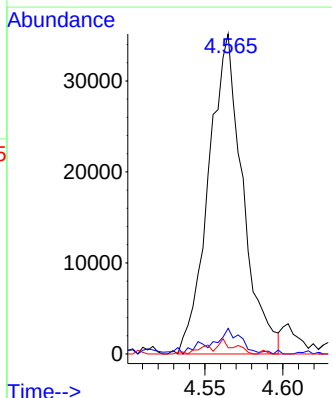
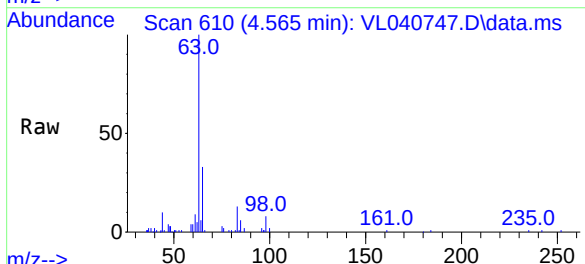
Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.6	8.4
42	24.1	7.6	11.4#
44	10.8	5.0	7.4#

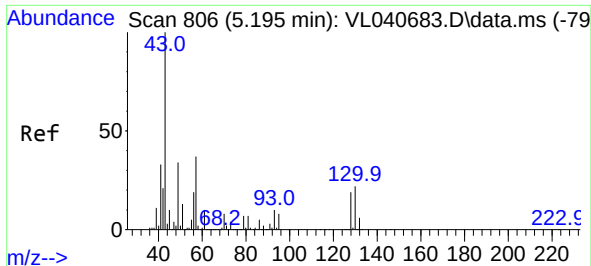


#24
 1,1-Dichloroethane
 Concen: 0.527 ppbv
 RT: 4.565 min Scan# 610
 Delta R.T. -0.003 min
 Lab File: VL040747.D
 Acq: 4 Oct 2023 19:33

Tgt Ion: 63 Resp: 53451

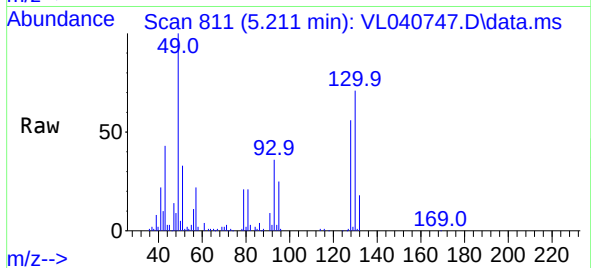
Ion	Ratio	Lower	Upper
63	100		
98	6.8	1.8	5.5#
100	2.0	1.2	3.6





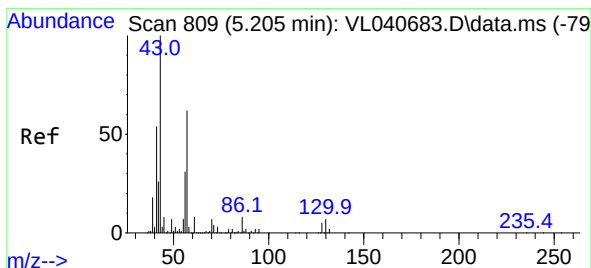
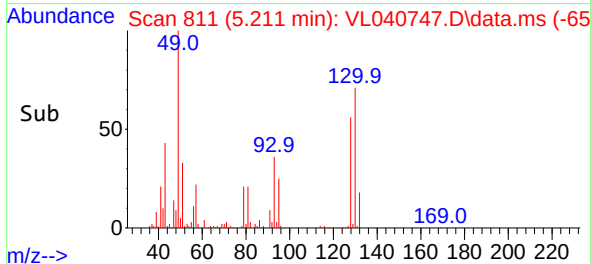
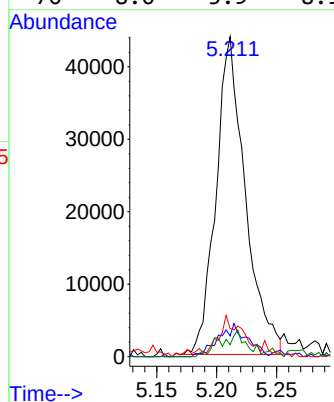
#25
Ethyl Acetate
Concen: 0.441 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 43 Resp: 74563

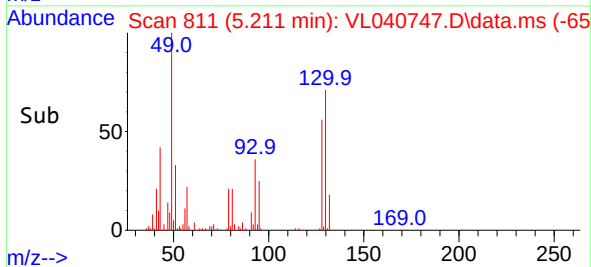
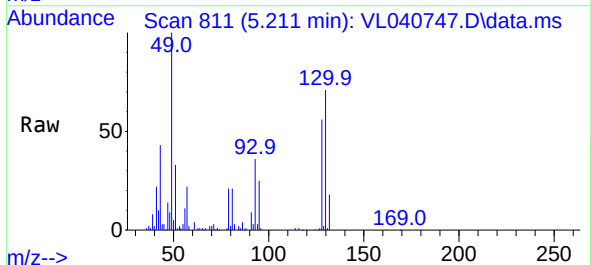
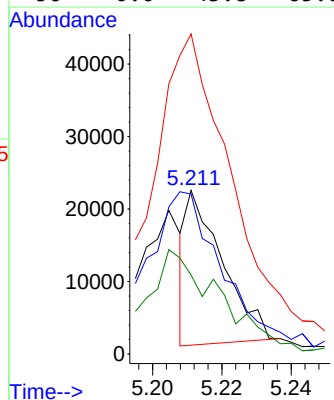
Ion	Ratio	Lower	Upper
43	100		
45	11.2	8.2	12.4
61	13.2	8.2	12.4
70	8.0	5.9	8.9

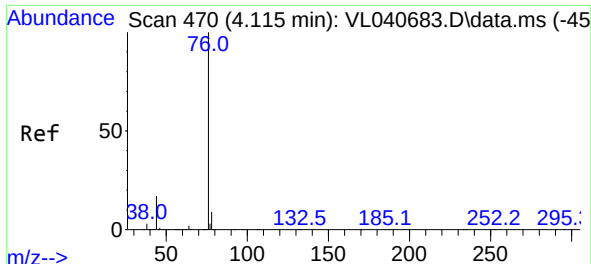


#26
Hexane
Concen: 0.192 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 57 Resp: 15389

Ion	Ratio	Lower	Upper
57	100		
41	260.7	75.2	112.8
43	510.5	185.6	278.4
56	0.0	43.8	65.8

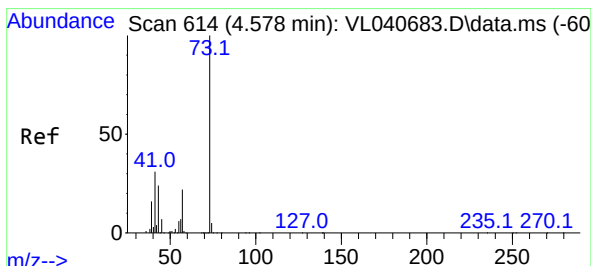
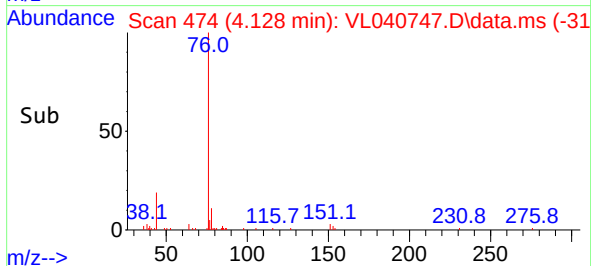
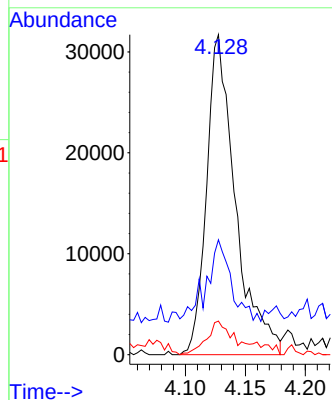
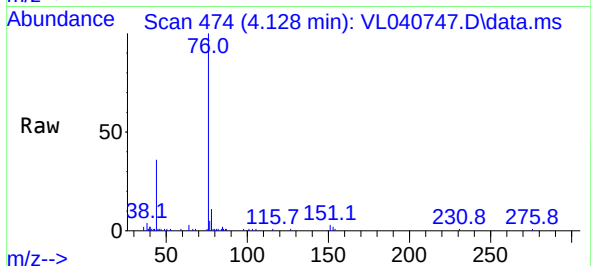




#27
Carbon Disulfide
Concen: 0.477 ppbv
RT: 4.128 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

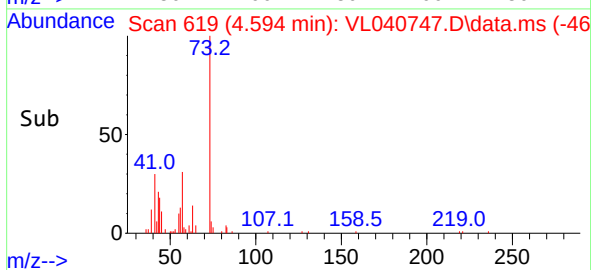
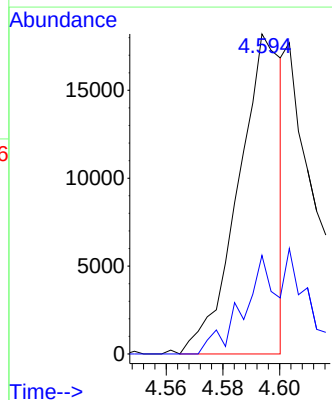
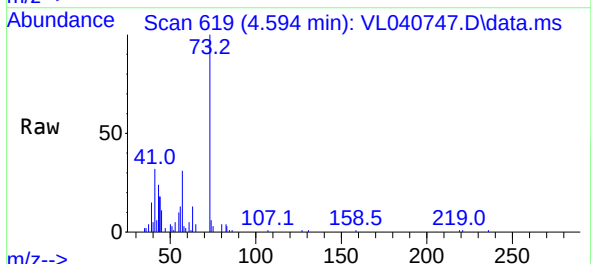
Instrument :
MSVOA_L
ClientSampleId :

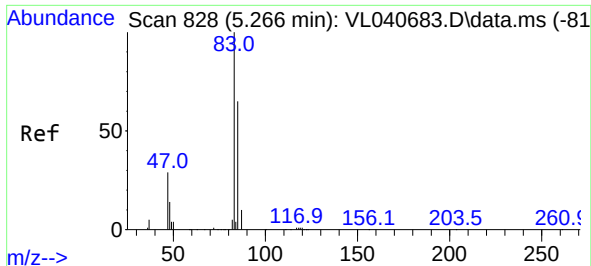
Tgt Ion: 76 Resp: 53212
Ion Ratio Lower Upper
76 100
44 23.2 14.5 21.7#
78 12.1 7.7 11.5#



#28
Methyl tert-Butyl Ether
Concen: 0.277 ppbv
RT: 4.594 min Scan# 619
Delta R.T. 0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 73 Resp: 19031
Ion Ratio Lower Upper
73 100
57 0.0 18.8 28.2#





#29

Chloroform

Concen: 0.501 ppbv

RT: 5.269 min Scan# 81

Delta R.T. -0.013 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Instrument :

MSVOA_L

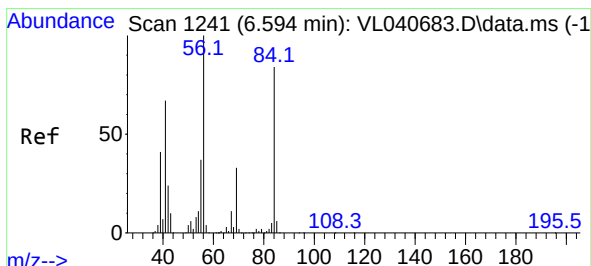
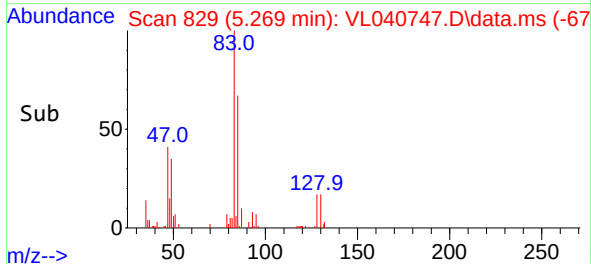
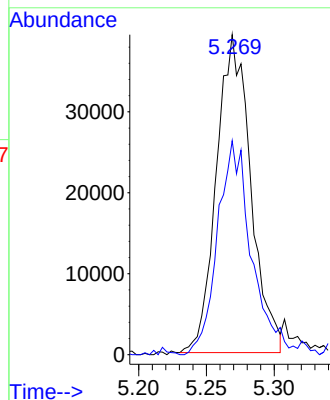
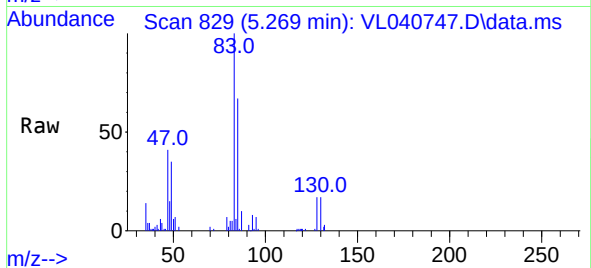
ClientSampleId :

Tgt Ion: 83 Resp: 69092

Ion Ratio Lower Upper

83 100

85 67.3 51.8 77.8



#30

Cyclohexane

Concen: 0.110 ppbv

RT: 6.587 min Scan# 1239

Delta R.T. -0.022 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

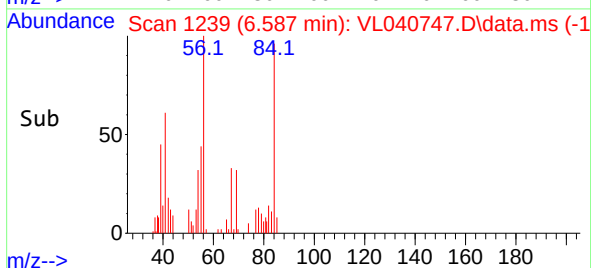
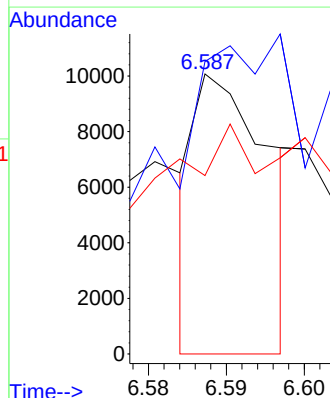
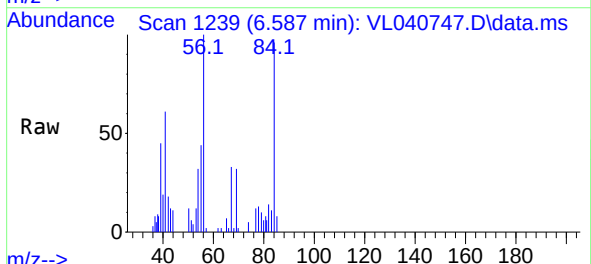
Tgt Ion: 84 Resp: 6639

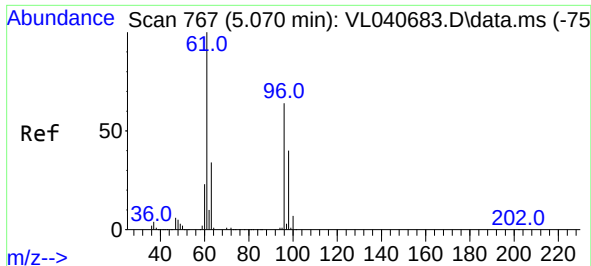
Ion Ratio Lower Upper

84 100

56 294.7 103.2 154.8#

41 302.6 65.5 98.3#

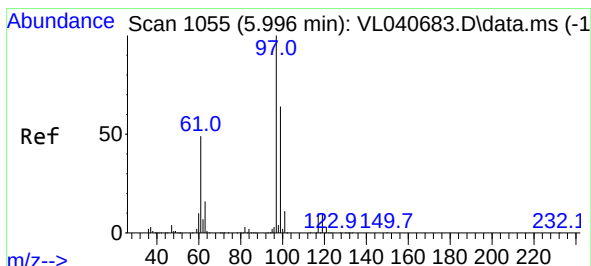
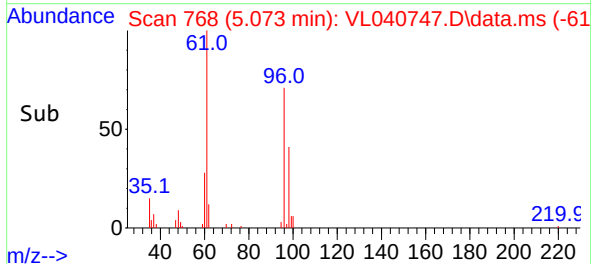
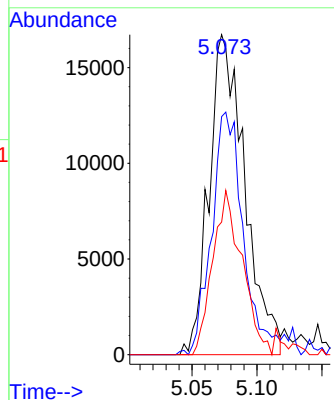
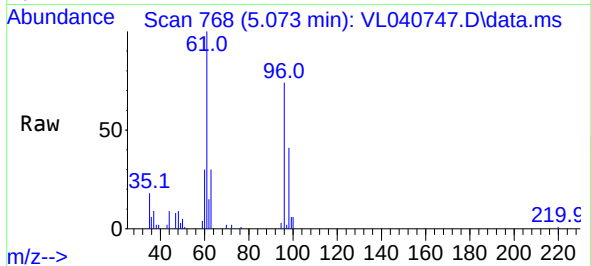




#31
cis-1,2-Dichloroethene
Concen: 0.431 ppbv
RT: 5.073 min Scan# 767
Delta R.T. -0.013 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

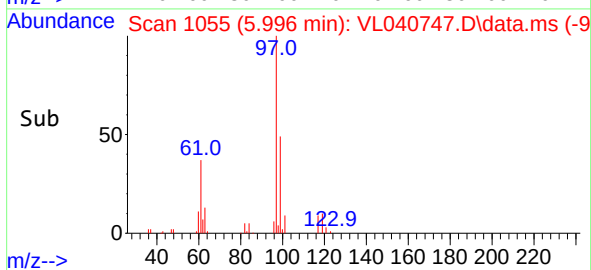
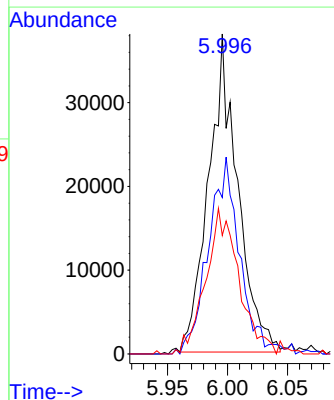
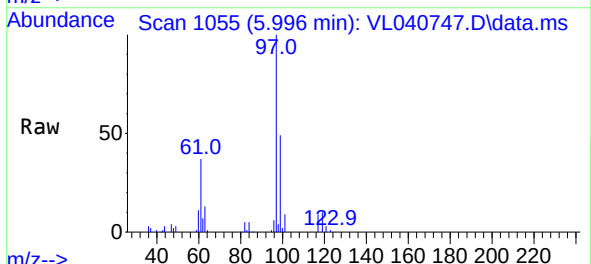
Instrument :
MSVOA_L
ClientSampleId :

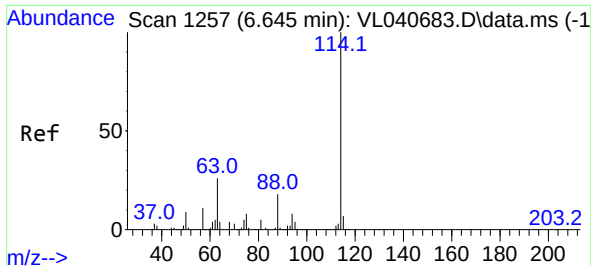
Tgt Ion: 61 Resp: 31969
Ion Ratio Lower Upper
61 100
96 73.4 51.2 76.8
98 41.4 32.3 48.5



#32
1,1,1-Trichloroethane
Concen: 0.455 ppbv
RT: 5.996 min Scan# 1055
Delta R.T. -0.016 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 97 Resp: 64238
Ion Ratio Lower Upper
97 100
99 67.3 52.4 78.6
61 53.0 40.2 60.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Instrument :

MSVOA_L

ClientSampleId :

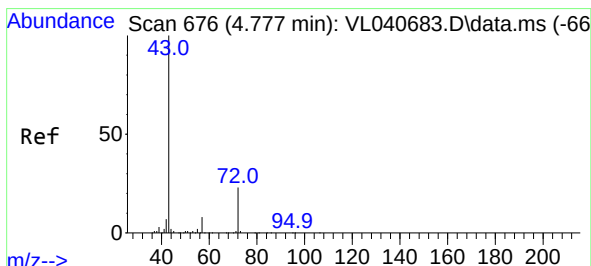
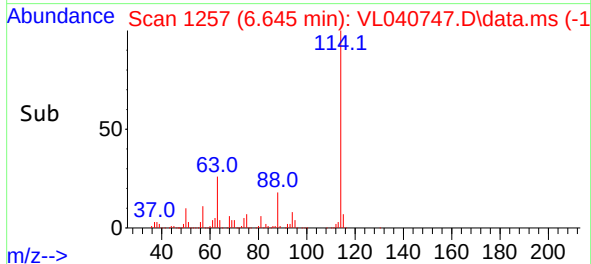
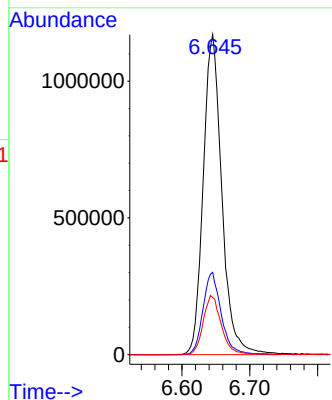
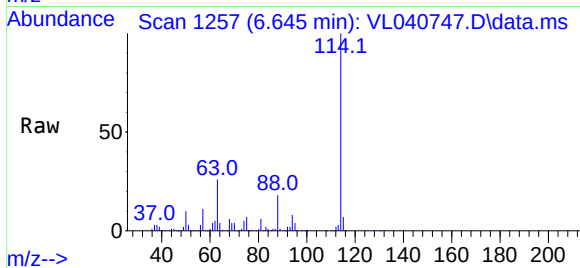
Tgt Ion:114 Resp: 2233863

Ion Ratio Lower Upper

114 100

63 25.5 21.1 31.7

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 0.161 ppbv

RT: 4.796 min Scan# 682

Delta R.T. 0.007 min

Lab File: VL040747.D

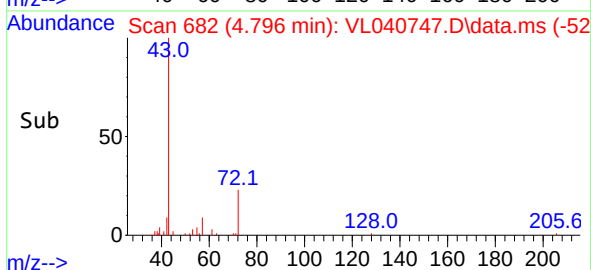
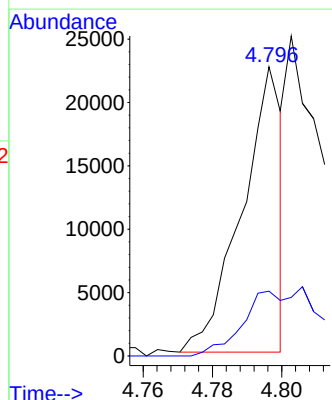
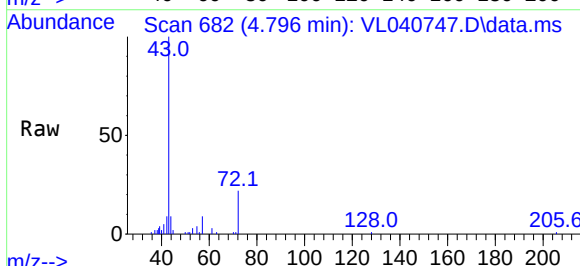
Acq: 4 Oct 2023 19:33

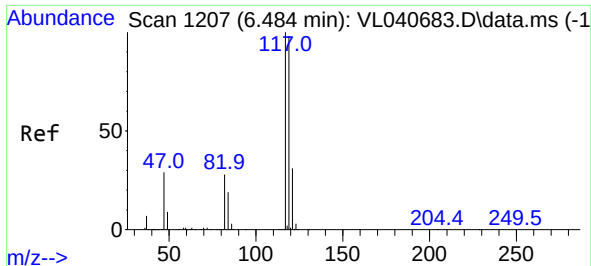
Tgt Ion: 43 Resp: 18098

Ion Ratio Lower Upper

43 100

72 0.0 18.6 27.8#

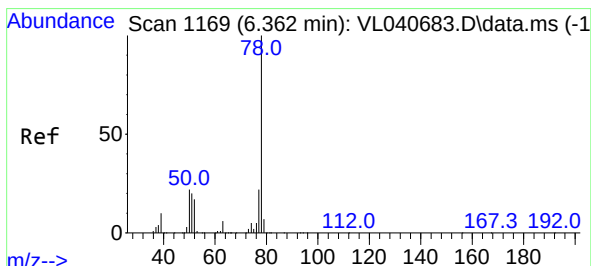
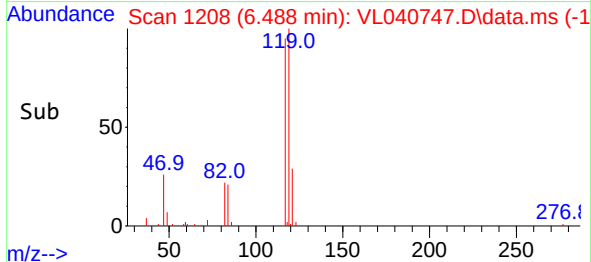
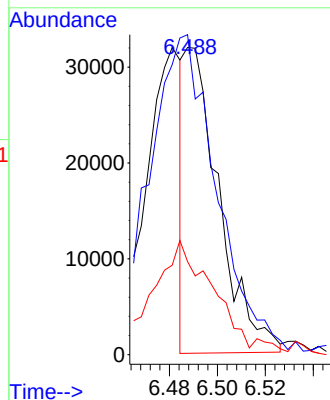
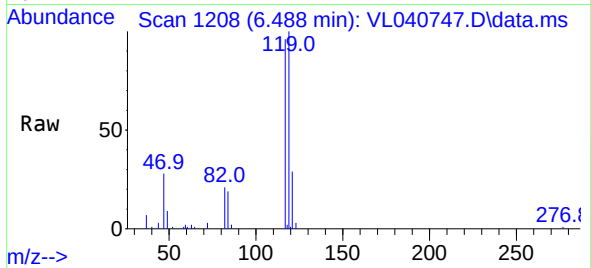




#35
Carbon Tetrachloride
Concen: 0.207 ppbv
RT: 6.488 min Scan# 1167
Delta R.T. -0.016 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

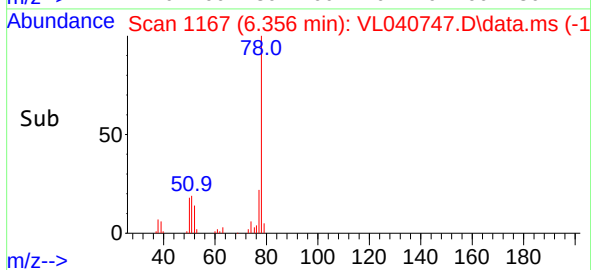
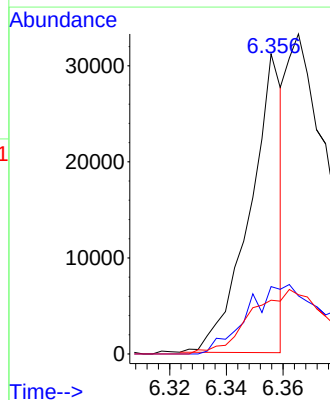
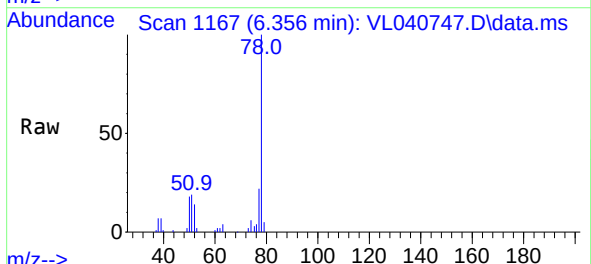
Instrument :
MSVOA_L
ClientSampleId :

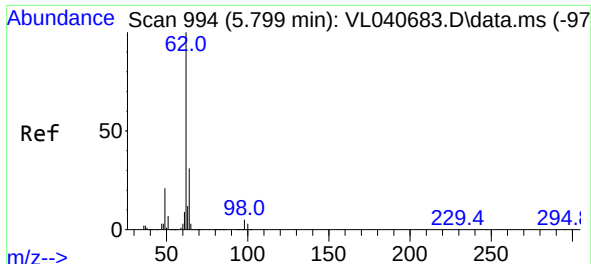
Tgt Ion:117 Resp: 31675
Ion Ratio Lower Upper
117 100
119 103.0 78.6 117.8
121 29.4 24.7 37.1



#36
Benzene
Concen: 0.148 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 78 Resp: 24522
Ion Ratio Lower Upper
78 100
77 22.6 17.9 26.9
50 18.0 17.3 25.9

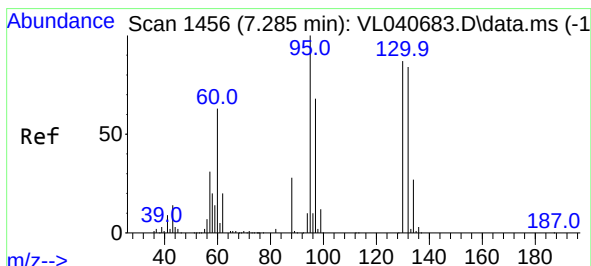
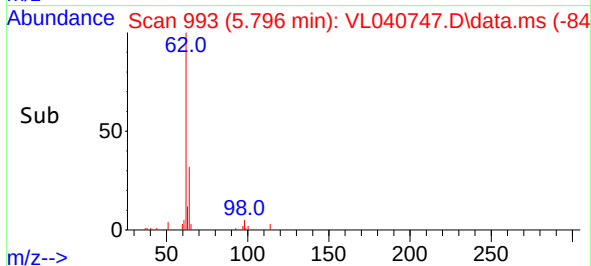
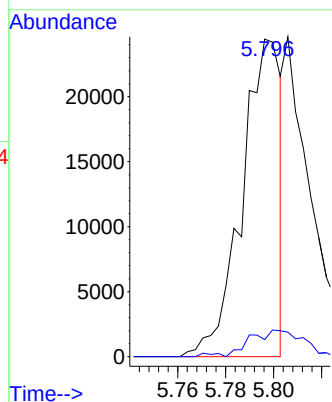
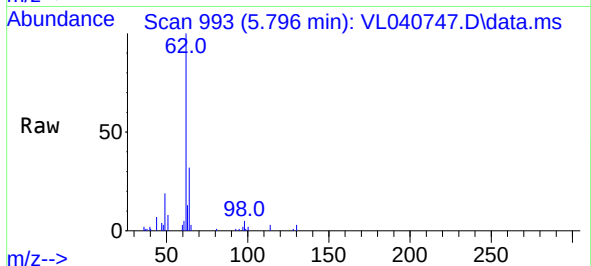




#37
1,2-Dichloroethane
Concen: 0.242 ppbv
RT: 5.796 min Scan# 994
Delta R.T. -0.019 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

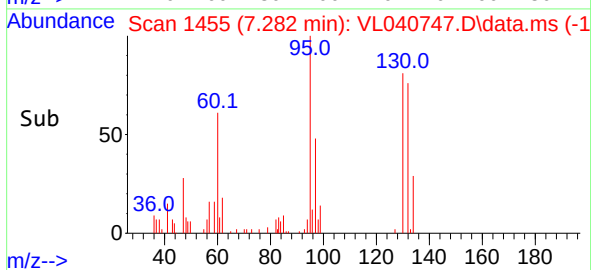
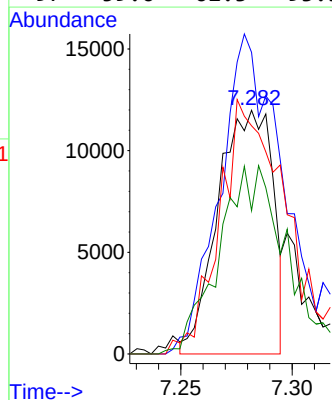
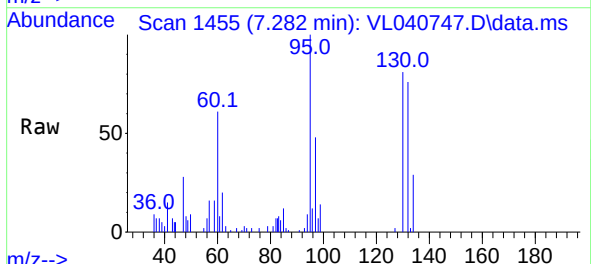
Instrument :
MSVOA_L
ClientSampleId :

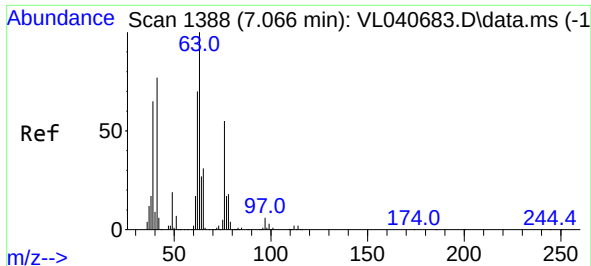
Tgt Ion: 62 Resp: 27379
Ion Ratio Lower Upper
62 100
98 12.9 4.2 6.4#



#38
Trichloroethene
Concen: 0.325 ppbv
RT: 7.282 min Scan# 1455
Delta R.T. -0.019 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:130 Resp: 20524
Ion Ratio Lower Upper
130 100
95 122.9 91.9 137.9
132 93.7 77.3 115.9
97 59.6 62.3 93.5#





#39

1,2-Dichloropropane

Concen: 0.179 ppbv

RT: 7.066 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Instrument :

MSVOA_L

ClientSampleId :

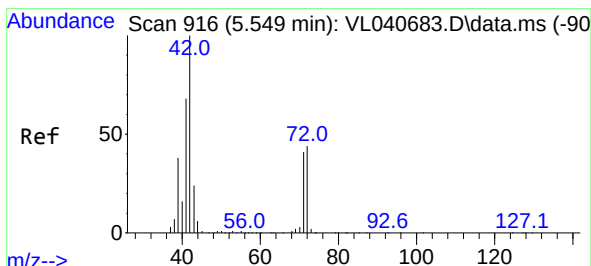
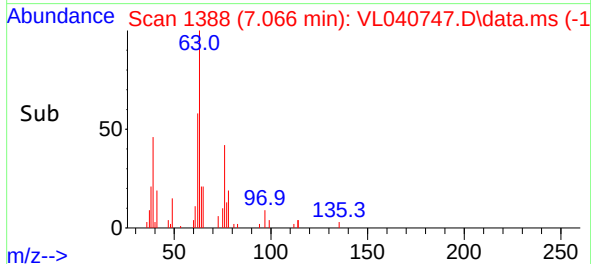
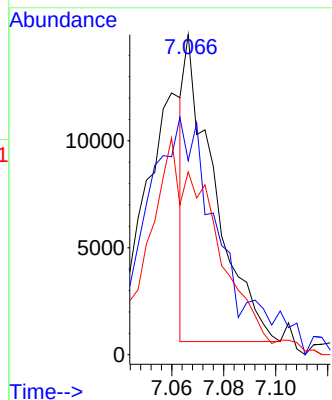
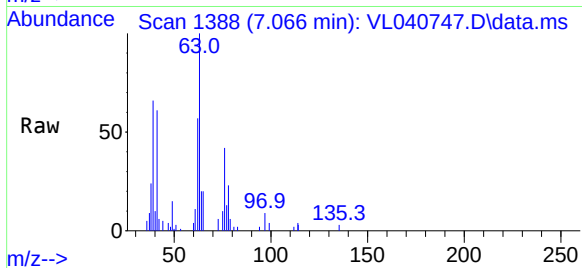
Tgt Ion: 63 Resp: 11403

Ion Ratio Lower Upper

63 100

41 49.0 61.6 92.4#

62 54.9 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.196 ppbv

RT: 5.578 min Scan# 925

Delta R.T. 0.016 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

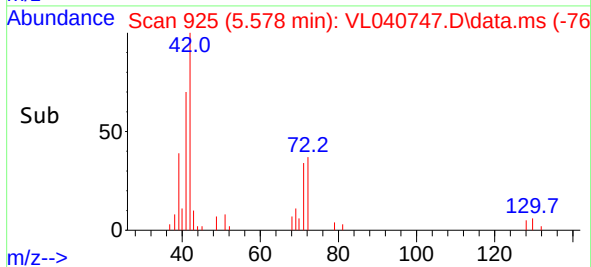
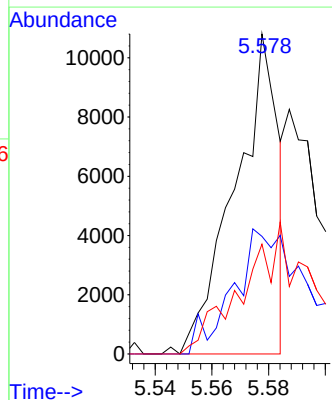
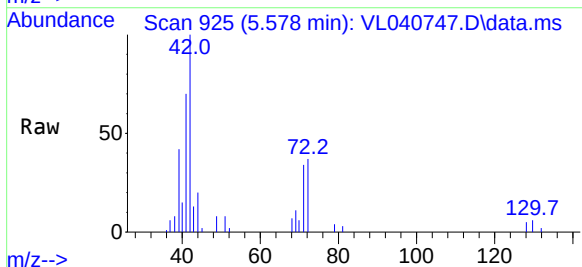
Tgt Ion: 42 Resp: 11313

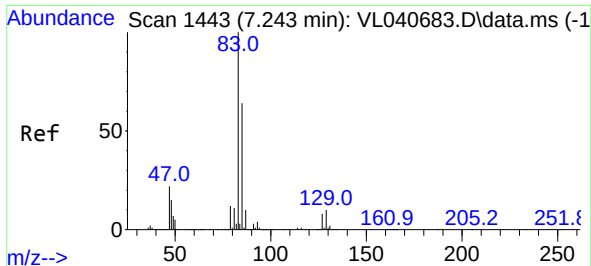
Ion Ratio Lower Upper

42 100

72 73.6 34.9 52.3#

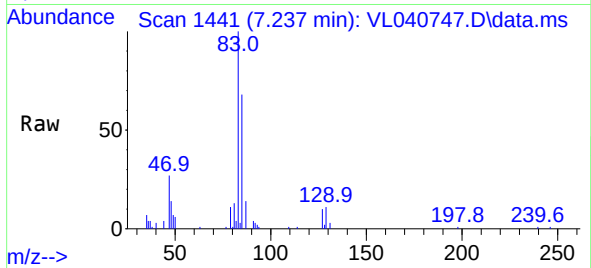
71 0.0 33.8 50.8#



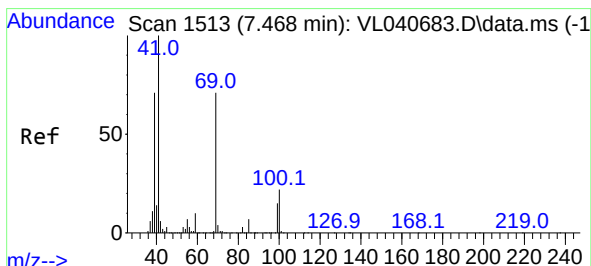
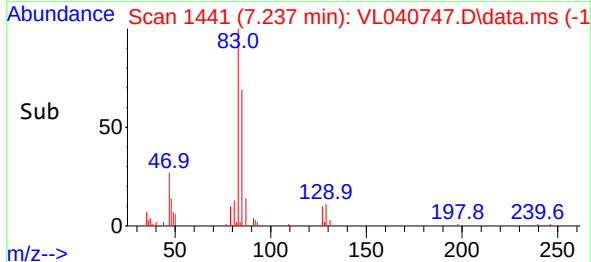
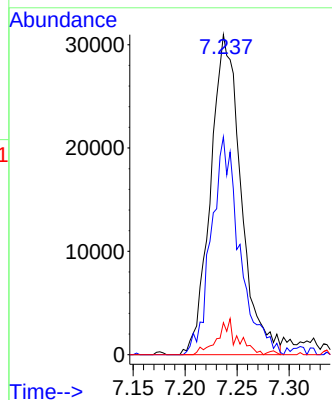


#42
Bromodichloromethane
Concen: 0.409 ppbv
RT: 7.237 min Scan# 1441
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :

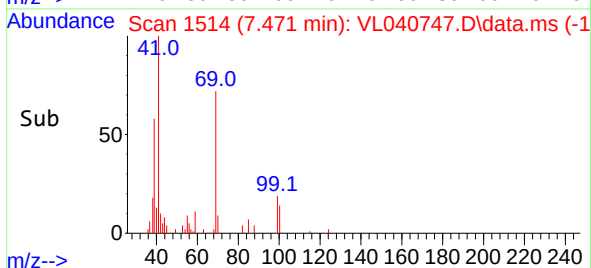
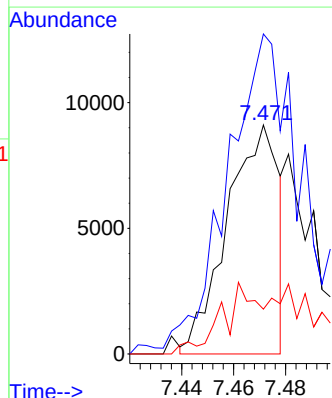
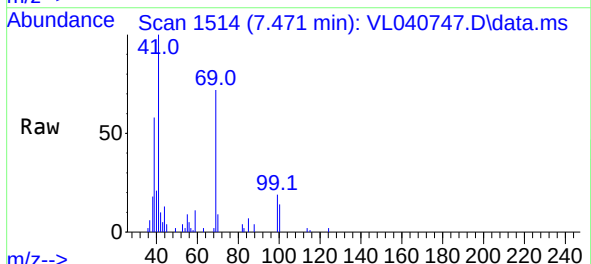


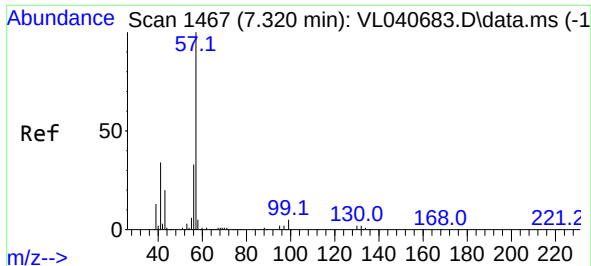
Tgt Ion: 83 Resp: 63194
Ion Ratio Lower Upper
83 100
85 68.0 51.2 76.8
127 10.0 6.2 9.4#



#43
Methyl Methacrylate
Concen: 0.202 ppbv
RT: 7.471 min Scan# 1514
Delta R.T. -0.010 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 69 Resp: 12436
Ion Ratio Lower Upper
69 100
41 211.4 113.8 170.8#
100 50.3 25.4 38.0#

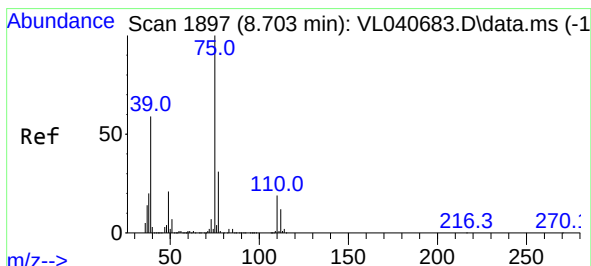
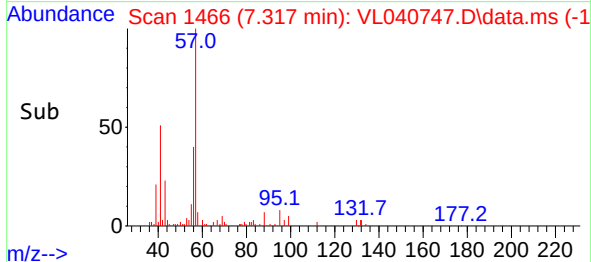
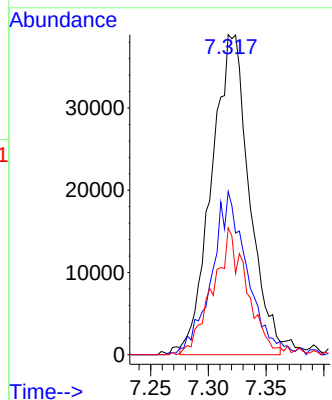
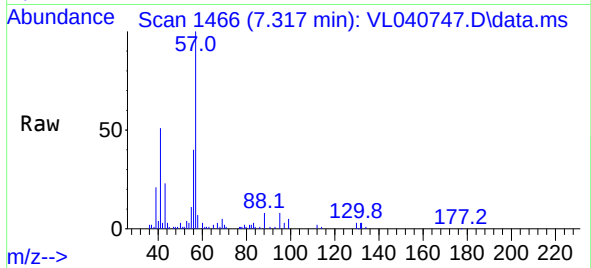




#44
2,2,4-Trimethylpentane
Concen: 0.335 ppbv
RT: 7.317 min Scan# 1466
Delta R.T. -0.019 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

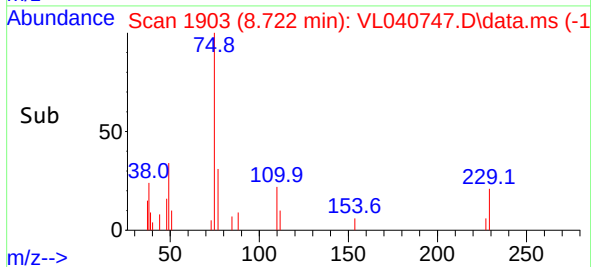
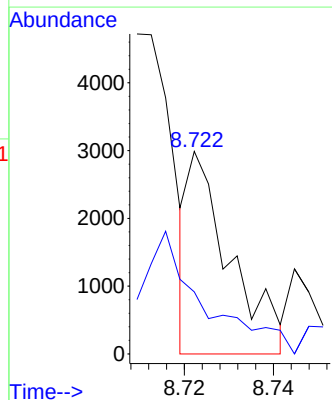
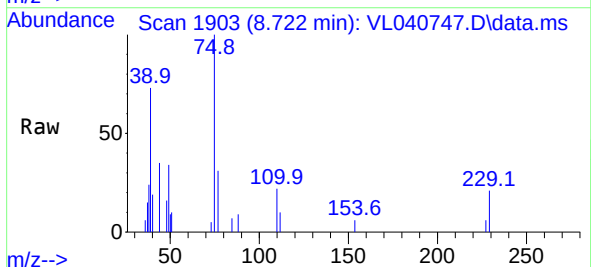
Instrument :
MSVOA_L
ClientSampleId :

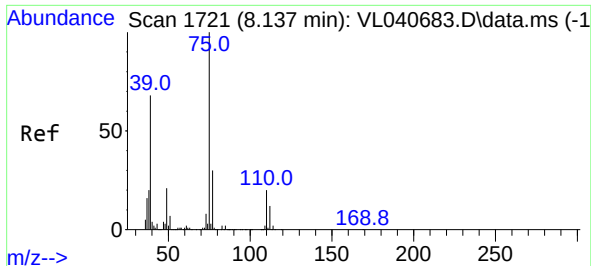
Tgt Ion: 57 Resp: 88361
Ion Ratio Lower Upper
57 100
41 48.7 28.5 42.7#
56 36.8 25.4 38.2



#45
t-1,3-Dichloropropene
Concen: 0.041 ppbv
RT: 8.722 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 75 Resp: 1947
Ion Ratio Lower Upper
75 100
77 30.7 24.5 36.7





#46

cis-1,3-Dichloropropene

Concen: 0.158 ppbv

RT: 8.127 min Scan# 1

Delta R.T. -0.022 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Instrument :

MSVOA_L

ClientSampleId :

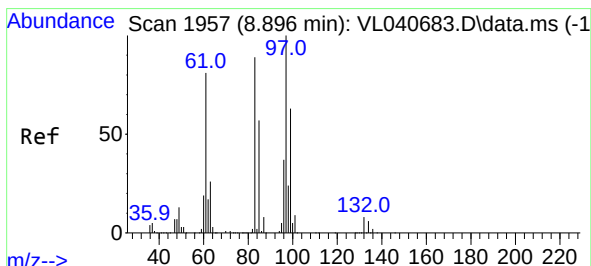
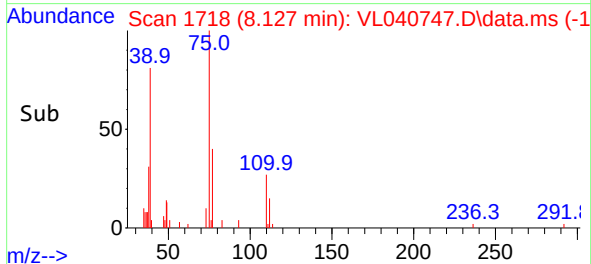
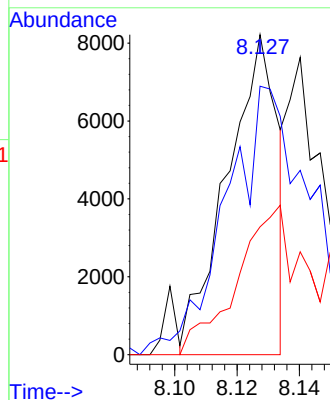
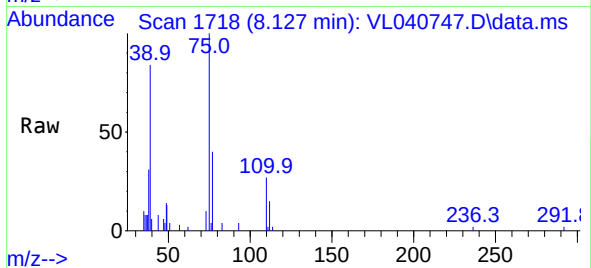
Tgt Ion: 75 Resp: 9211

Ion Ratio Lower Upper

75 100

39 78.6 54.0 81.0

77 41.1 23.6 35.4#



#47

1,1,2-Trichloroethane

Concen: 0.156 ppbv

RT: 8.886 min Scan# 1954

Delta R.T. -0.022 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Tgt Ion: 97 Resp: 11380

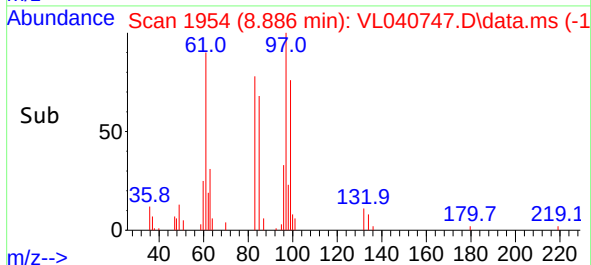
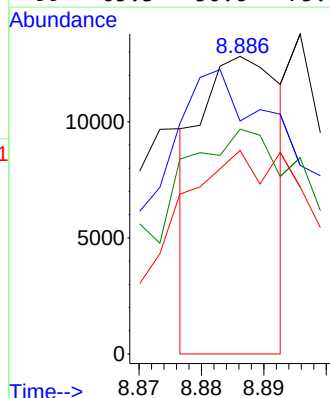
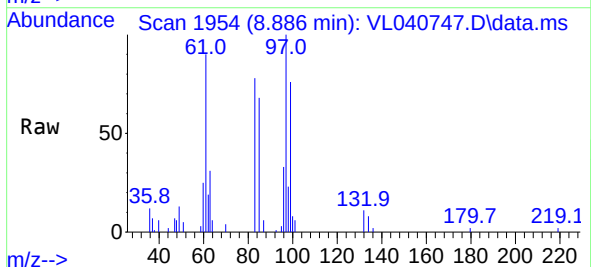
Ion Ratio Lower Upper

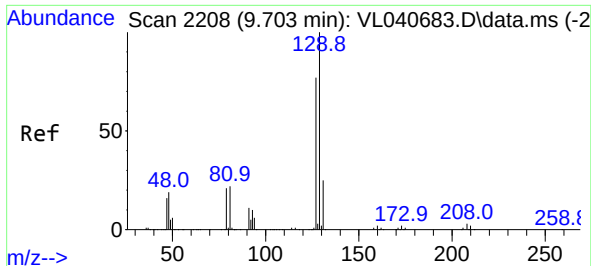
97 100

83 3.7 70.8 106.2#

85 60.4 45.7 68.5

99 65.3 50.6 75.8

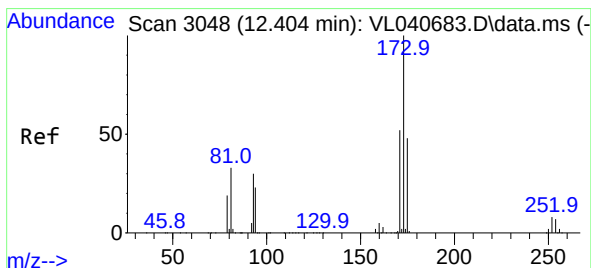
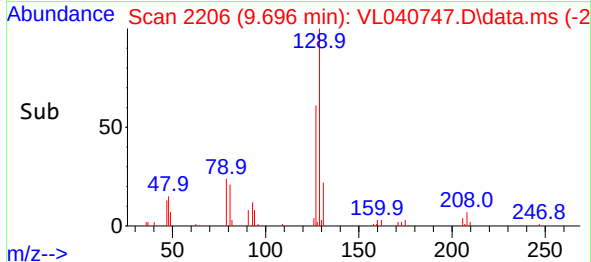
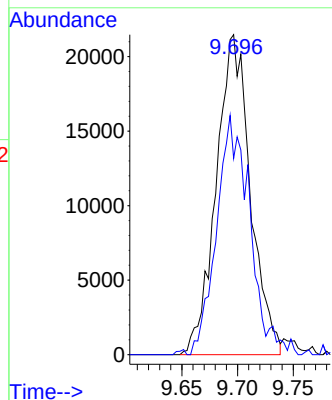
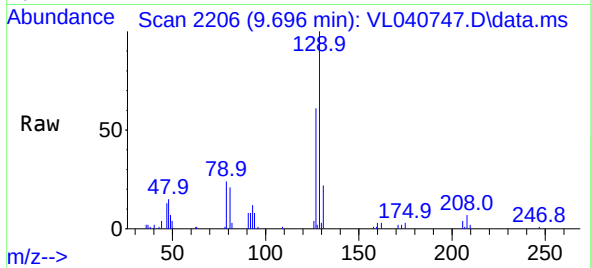




#48
Dibromochloromethane
Concen: 0.381 ppbv
RT: 9.696 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

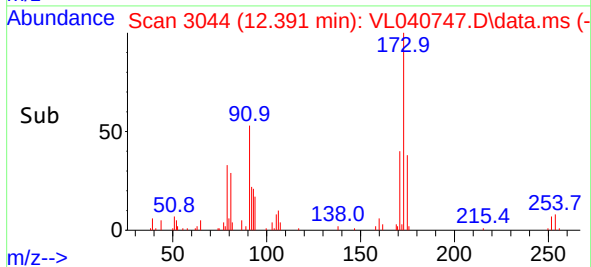
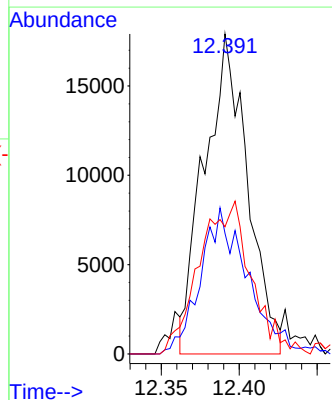
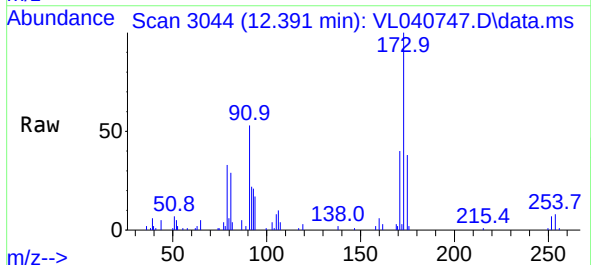
Instrument :
MSVOA_L
ClientSampleId :

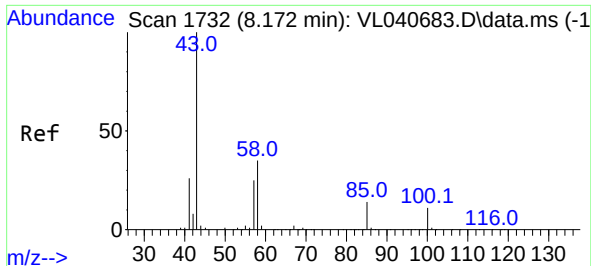
Tgt Ion:129 Resp: 45868
Ion Ratio Lower Upper
129 100
127 73.4 39.4 118.2



#49
Bromoform
Concen: 0.349 ppbv
RT: 12.391 min Scan# 3044
Delta R.T. -0.029 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:173 Resp: 34518
Ion Ratio Lower Upper
173 100
175 50.5 38.8 58.2
171 57.3 42.2 63.2

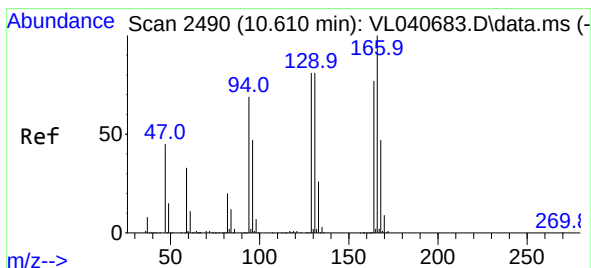
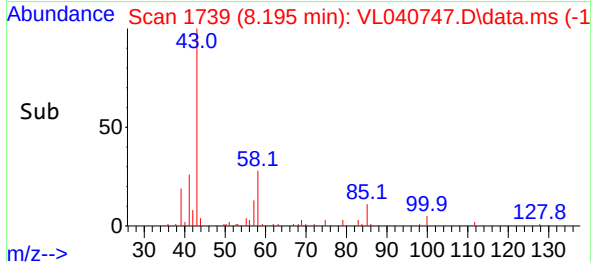
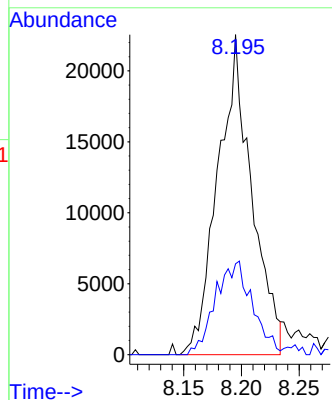
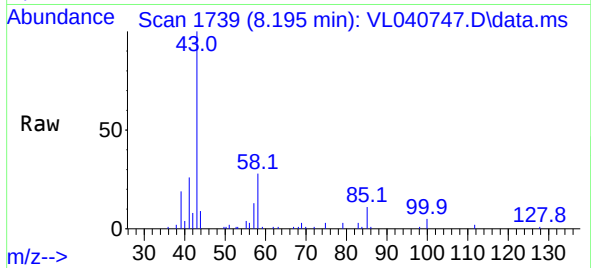




#50
4-Methyl-2-Pentanone
Concen: 0.302 ppbv
RT: 8.195 min Scan# 1
Delta R.T. 0.003 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

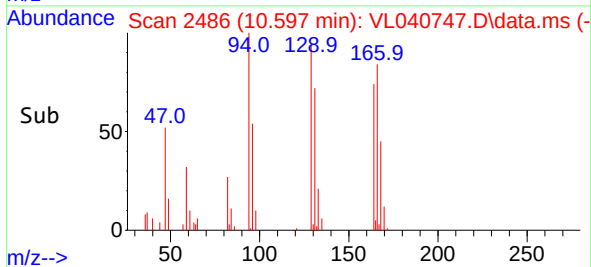
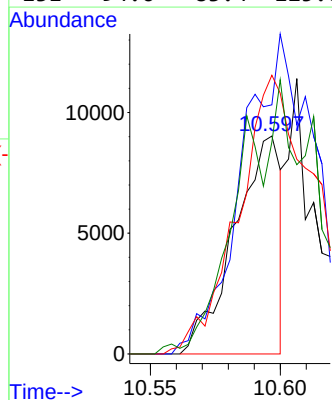
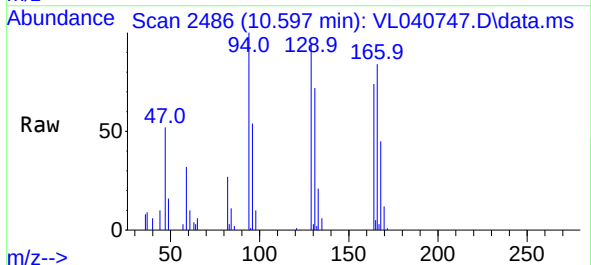
Instrument :
MSVOA_L
ClientSampleId :

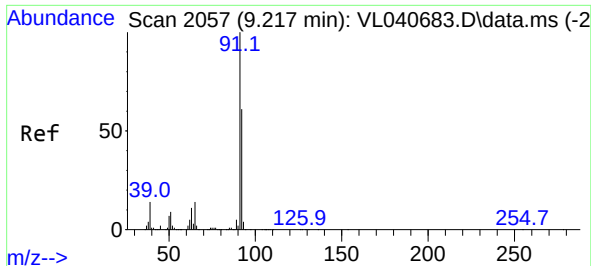
Tgt Ion: 43 Resp: 45922
Ion Ratio Lower Upper
43 100
58 32.5 28.2 42.4



#52
Tetrachloroethene
Concen: 0.207 ppbv
RT: 10.597 min Scan# 2486
Delta R.T. -0.029 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 164 Resp: 11148
Ion Ratio Lower Upper
164 100
166 109.4 103.4 155.2
129 124.8 83.5 125.3
131 94.6 83.4 125.0

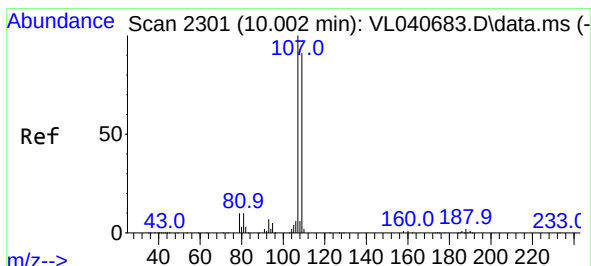
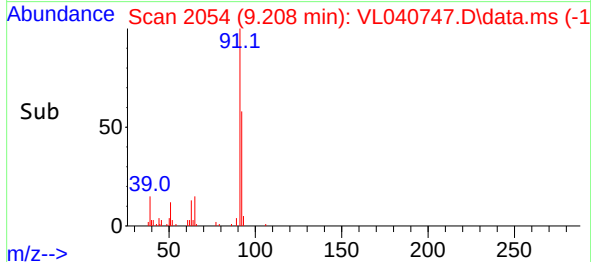
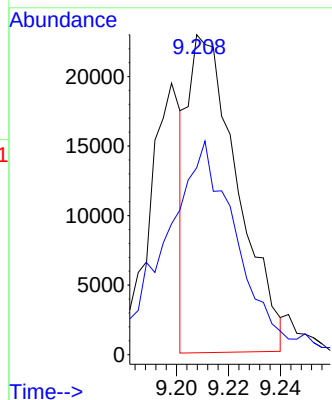
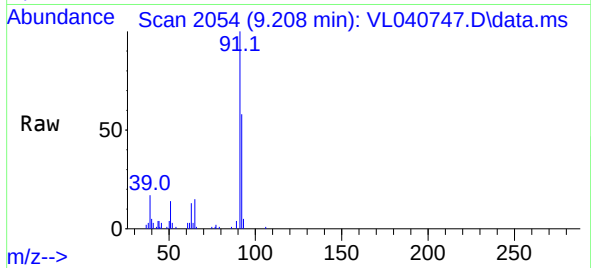




#53
Toluene
Concen: 0.173 ppbv
RT: 9.208 min Scan# 2057
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

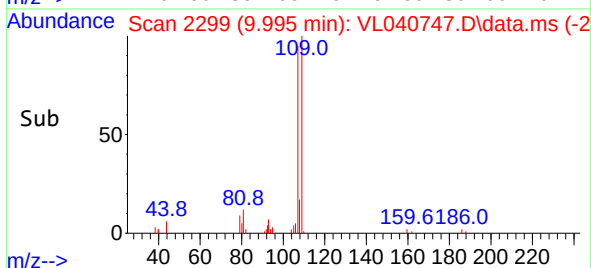
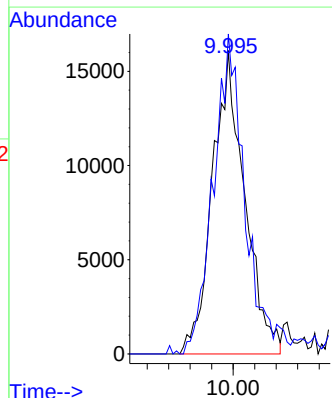
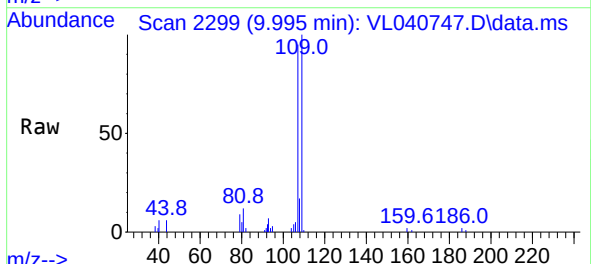
Instrument :
MSVOA_L
ClientSampleId :

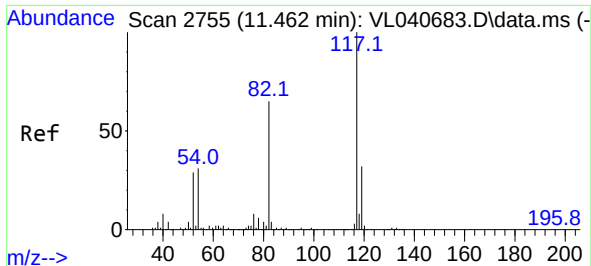
Tgt Ion: 91 Resp: 30215
Ion Ratio Lower Upper
91 100
92 100.0 48.5 72.7#



#54
1,2-Dibromoethane
Concen: 0.359 ppbv
RT: 9.995 min Scan# 2299
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

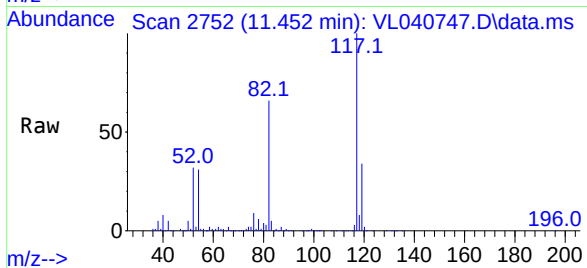
Tgt Ion: 107 Resp: 33521
Ion Ratio Lower Upper
107 100
109 105.5 72.4 108.6





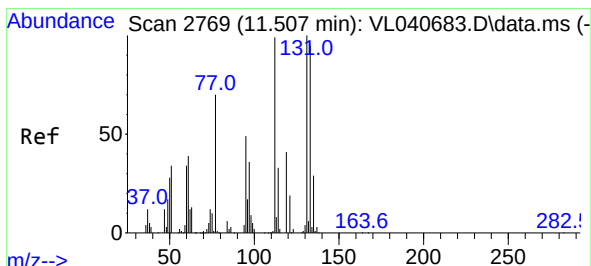
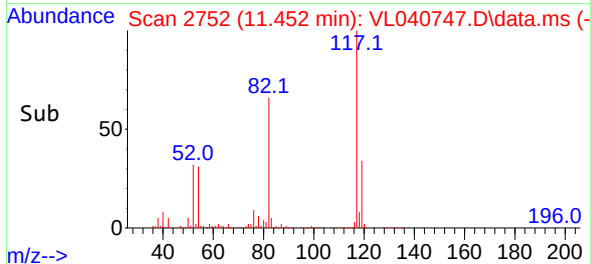
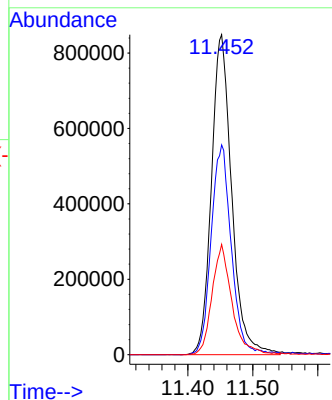
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:117 Resp: 1838768

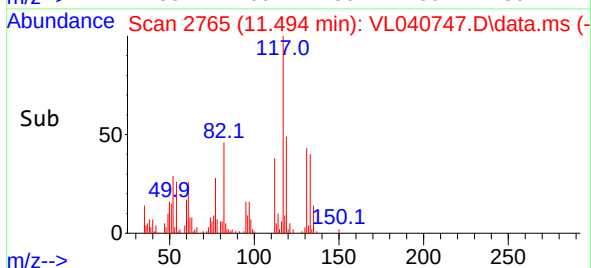
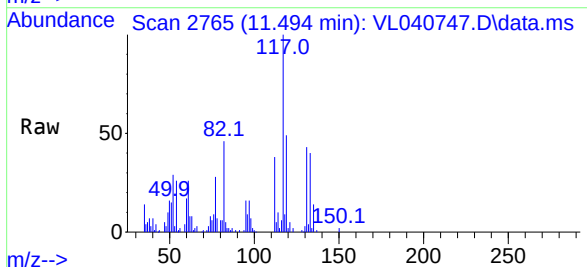
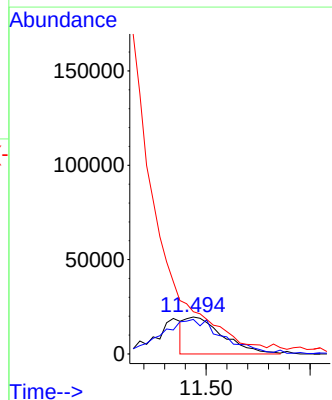
Ion	Ratio	Lower	Upper
117	100		
82	66.4	51.4	77.0
119	33.9	24.7	37.1

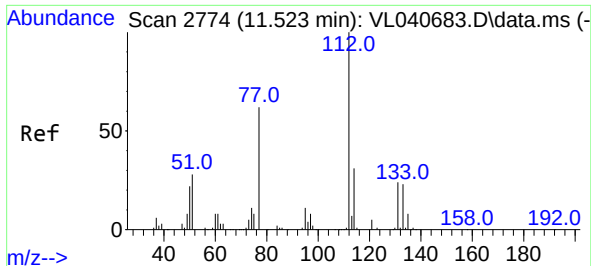


#56
1,1,1,2-Tetrachloroethane
Concen: 0.283 ppbv
RT: 11.494 min Scan# 2765
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:131 Resp: 24786

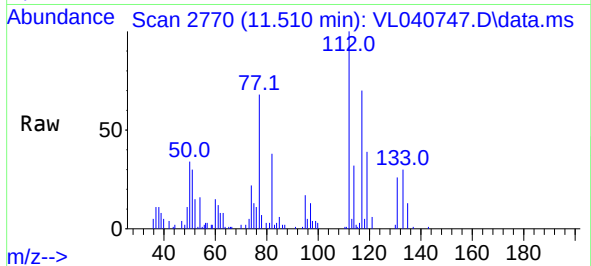
Ion	Ratio	Lower	Upper
131	100		
133	160.2	76.2	114.2#
119	0.0	45.5	68.3#



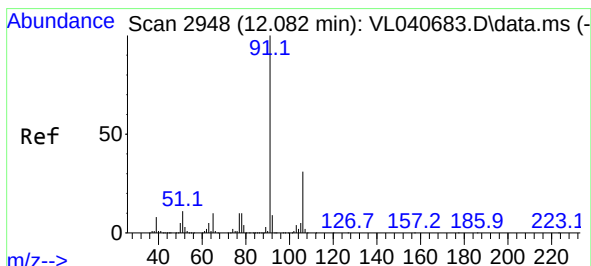
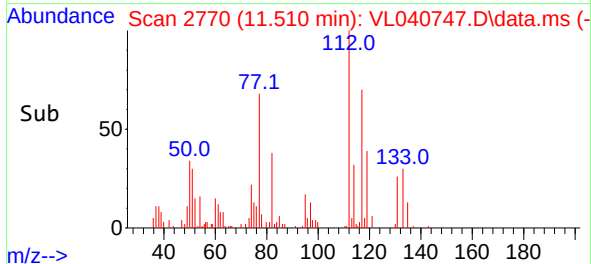
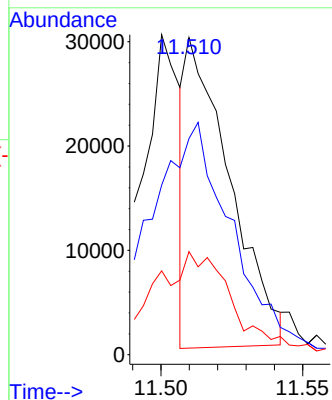


#57
Chlorobenzene
Concen: 0.231 ppbv
RT: 11.510 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :

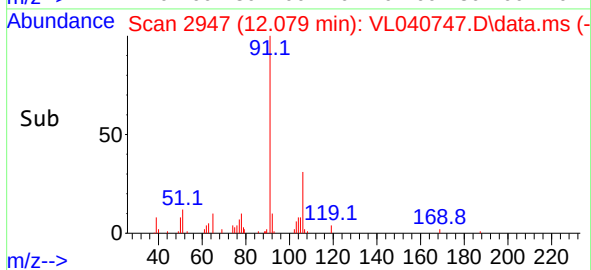
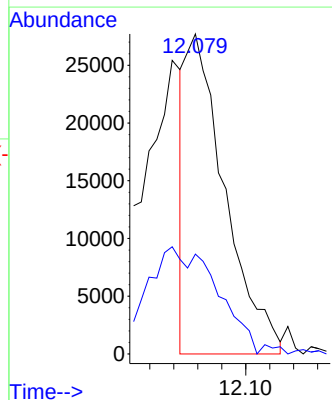
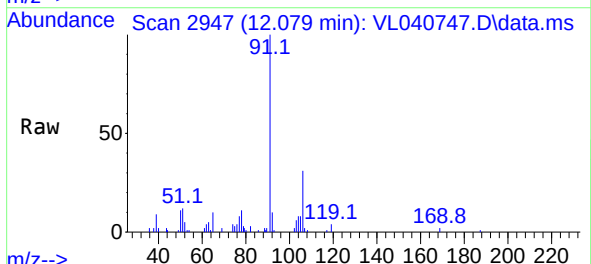


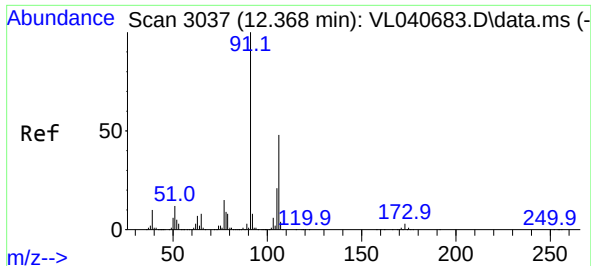
Tgt Ion:112 Resp: 32216
Ion Ratio Lower Upper
112 100
77 68.7 50.8 76.2
114 32.8 28.2 34.4



#58
Ethyl Benzene
Concen: 0.151 ppbv
RT: 12.079 min Scan# 2947
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 91 Resp: 31580
Ion Ratio Lower Upper
91 100
106 30.1 24.7 37.1





#59

m/p-Xylene

Concen: 0.169 ppbv

RT: 12.349 min Scan# 3037

Delta R.T. -0.032 min

Lab File: VL040747.D

Acq: 4 Oct 2023 19:33

Instrument :

MSVOA_L

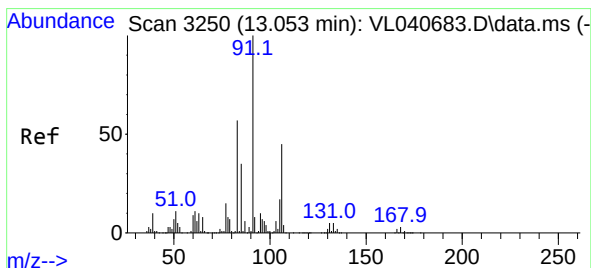
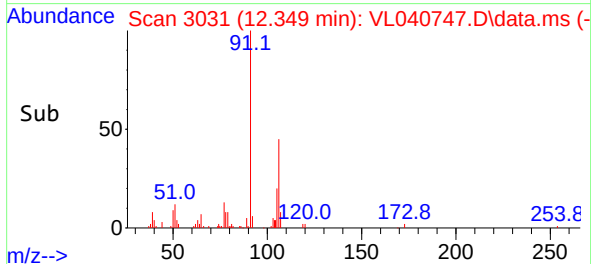
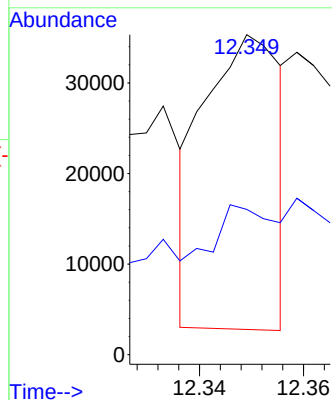
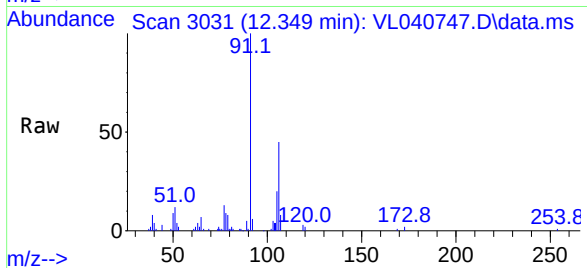
ClientSampleId :

Tgt Ion: 91 Resp: 33195

Ion Ratio Lower Upper

91 100

106 0.0 34.8 52.2#



#60

o-Xylene

Concen: 0.301 ppbv

RT: 13.047 min Scan# 3248

Delta R.T. -0.022 min

Lab File: VL040747.D

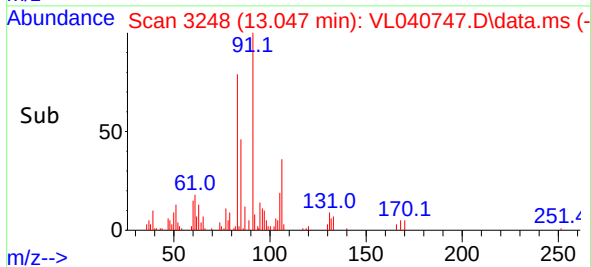
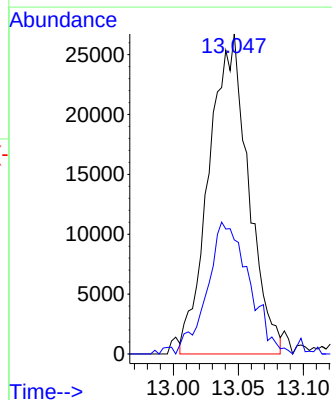
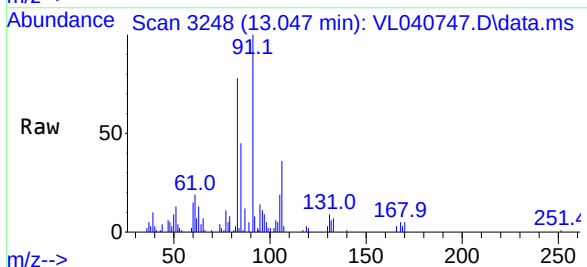
Acq: 4 Oct 2023 19:33

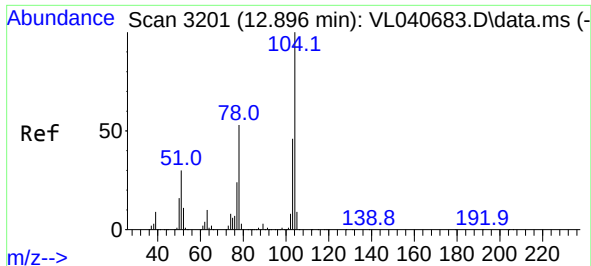
Tgt Ion: 91 Resp: 56481

Ion Ratio Lower Upper

91 100

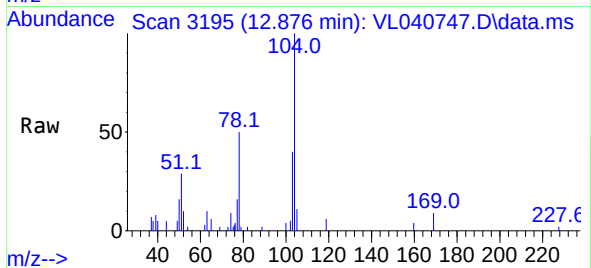
106 44.1 22.3 66.9



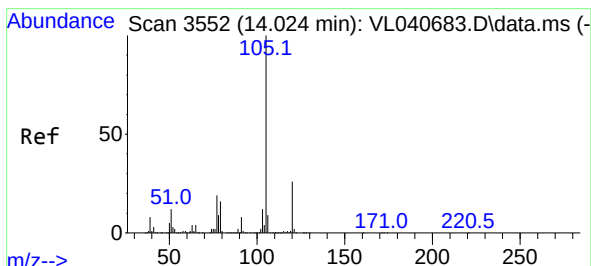
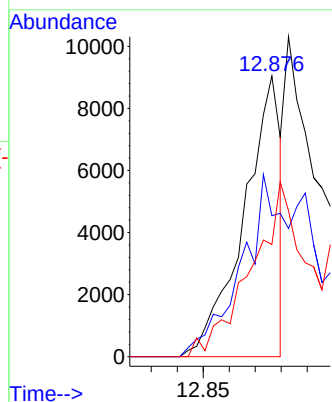
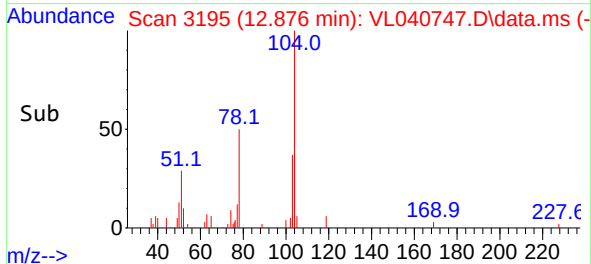


#61
Styrene
Concen: 0.113 ppbv
RT: 12.876 min Scan# 3195
Delta R.T. -0.029 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :

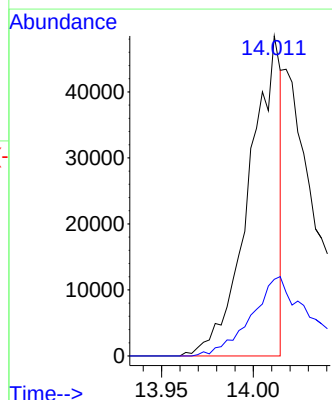
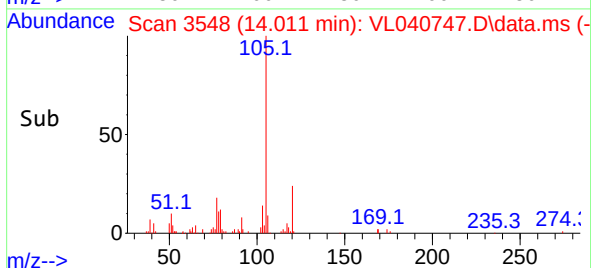
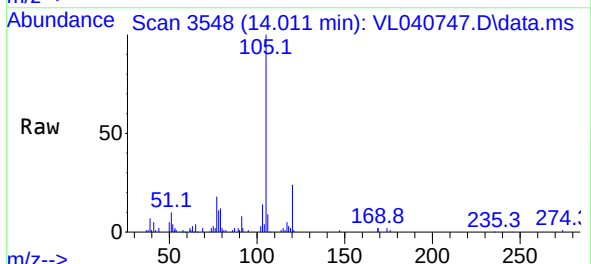


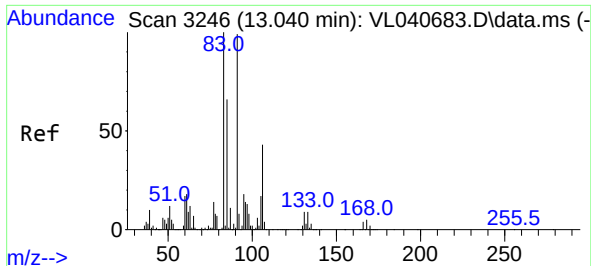
Tgt Ion:104 Resp: 8921
Ion Ratio Lower Upper
104 100
78 136.1 43.4 65.0#
103 0.0 37.2 55.8#



#62
Isopropylbenzene
Concen: 0.207 ppbv
RT: 14.011 min Scan# 3548
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:105 Resp: 58693
Ion Ratio Lower Upper
105 100
120 0.0 20.2 30.4#

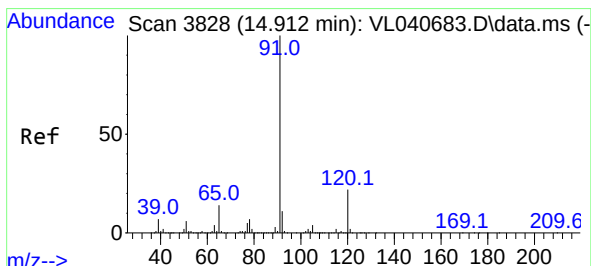
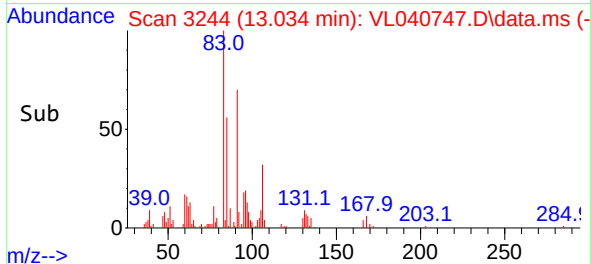
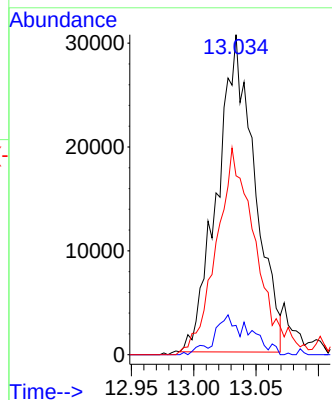
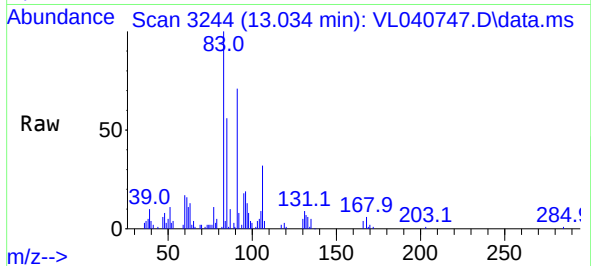




#63
1,1,2,2-Tetrachloroethane
Concen: 0.434 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

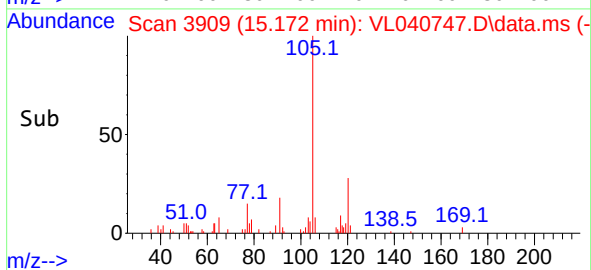
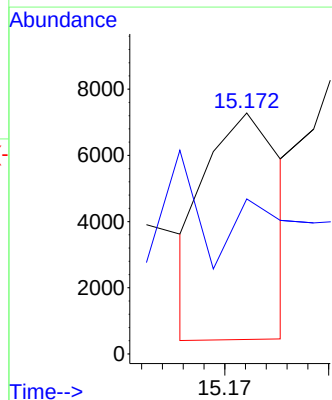
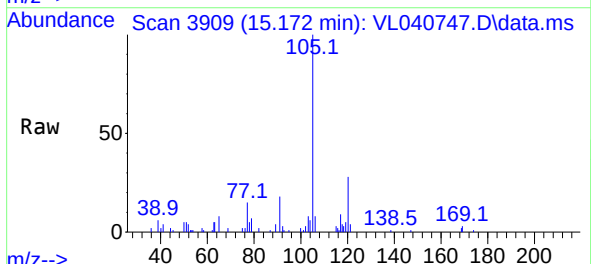
Instrument :
MSVOA_L
ClientSampleId :

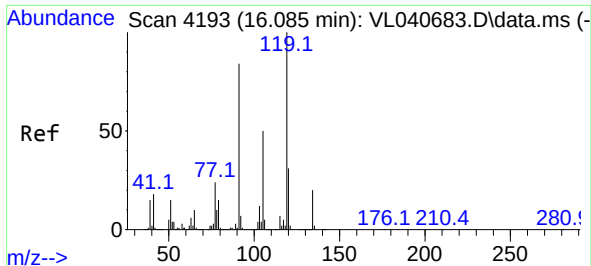
Tgt Ion: 83 Resp: 63885
Ion Ratio Lower Upper
83 100
131 11.8 4.7 14.1
85 70.2 33.1 99.3



#64
n-propylbenzene
Concen: 0.049 ppbv
RT: 15.172 min Scan# 3909
Delta R.T. 0.248 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 120 Resp: 3472
Ion Ratio Lower Upper
120 100
91 403.4 386.9 580.3

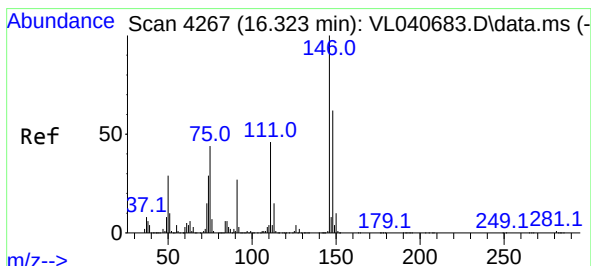
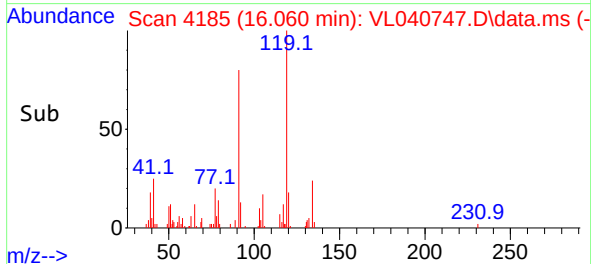
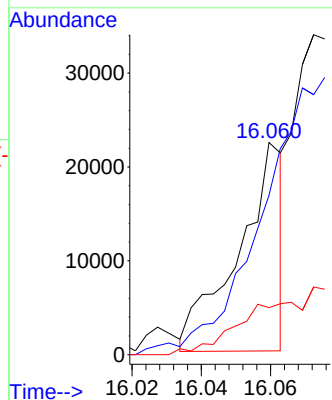
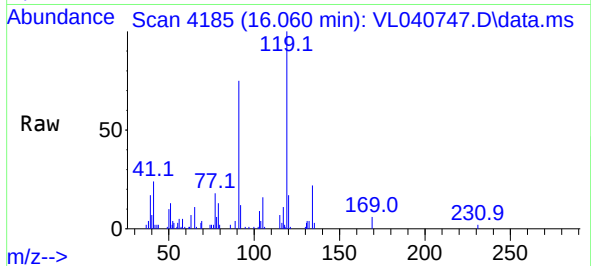




#65
tert-Butylbenzene
Concen: 0.078 ppbv
RT: 16.060 min Scan# 4193
Delta R.T. -0.038 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

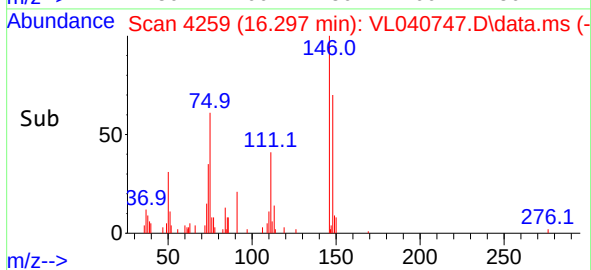
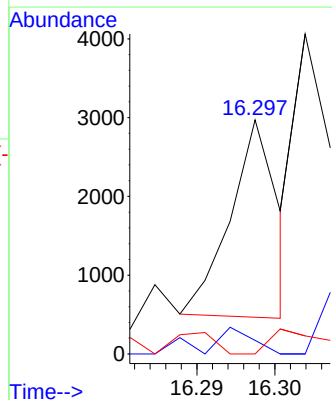
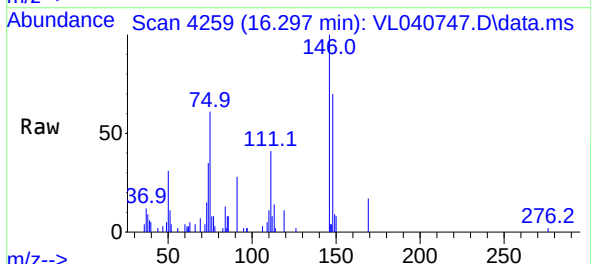
Instrument :
MSVOA_L
ClientSampleId :

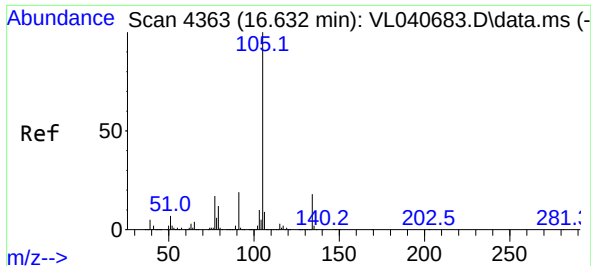
Tgt Ion:119 Resp: 19917
Ion Ratio Lower Upper
119 100
91 0.0 69.8 104.8#
134 0.0 15.4 23.2#



#66
Benzyl Chloride
Concen: 0.036 ppbv
RT: 16.297 min Scan# 4259
Delta R.T. -0.038 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 91 Resp: 1059
Ion Ratio Lower Upper
91 100
126 0.0 13.6 20.4#
128 0.0 4.4 6.6#

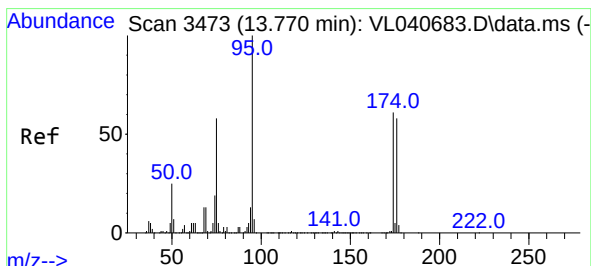
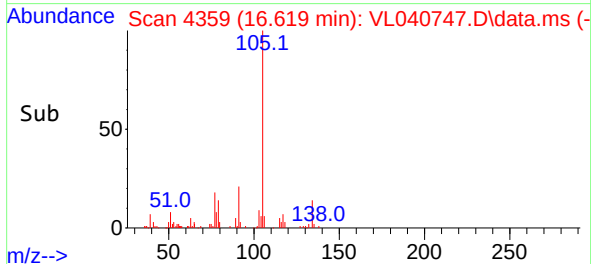
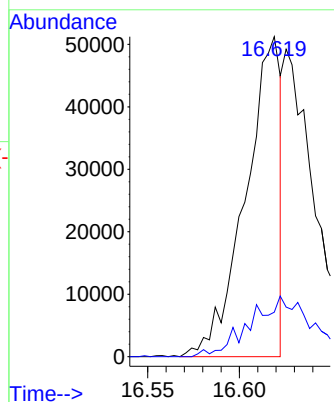
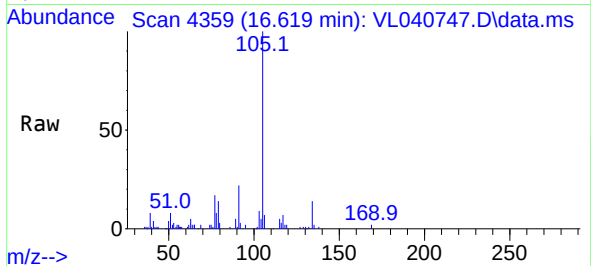




#67
 sec-Butylbenzene
 Concen: 0.187 ppbv
 RT: 16.619 min Scan# 41
 Delta R.T. -0.026 min
 Lab File: VL040747.D
 Acq: 4 Oct 2023 19:33

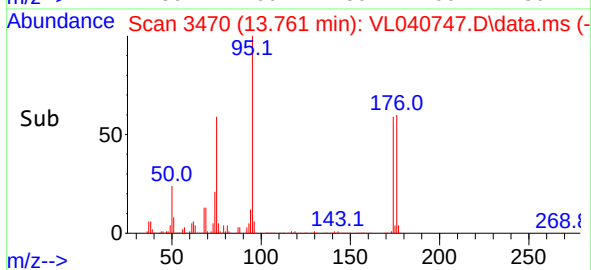
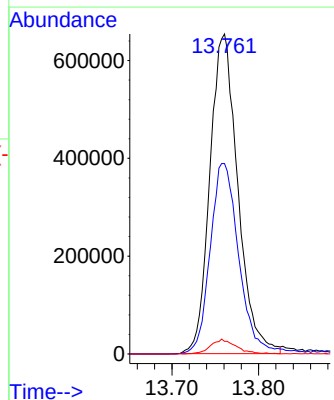
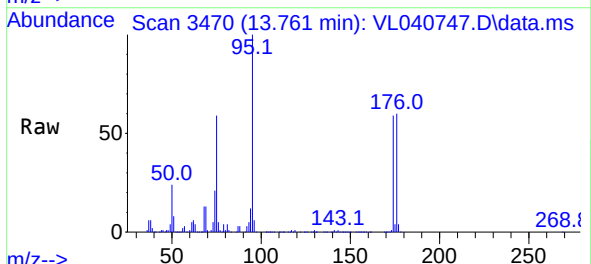
Instrument :
 MSVOA_L
 ClientSampleId :

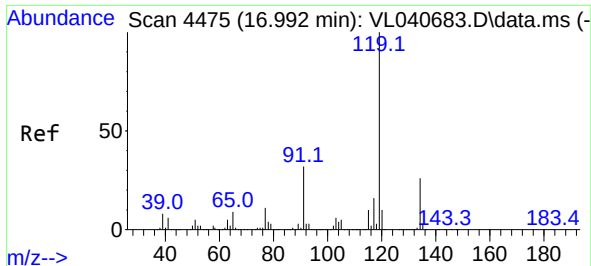
Tgt Ion:105 Resp: 68006
 Ion Ratio Lower Upper
 105 100
 134 0.0 14.1 21.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.322 ppbv
 RT: 13.761 min Scan# 3470
 Delta R.T. -0.026 min
 Lab File: VL040747.D
 Acq: 4 Oct 2023 19:33

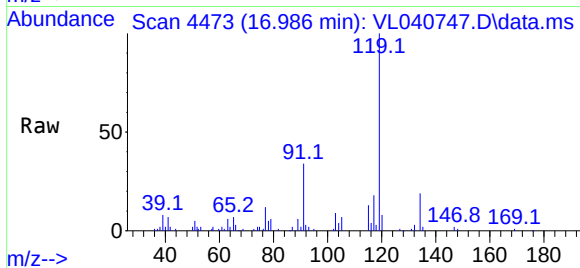
Tgt Ion: 95 Resp: 1466420
 Ion Ratio Lower Upper
 95 100
 174 61.5 48.9 73.3
 175 4.3 3.5 5.3



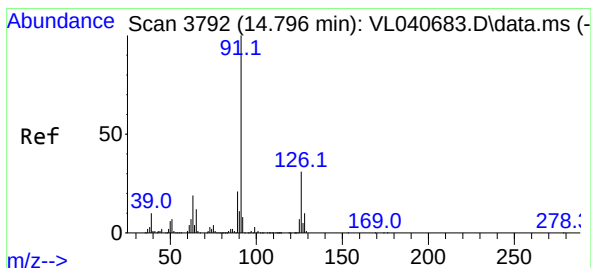
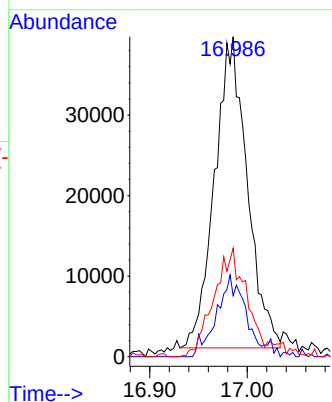
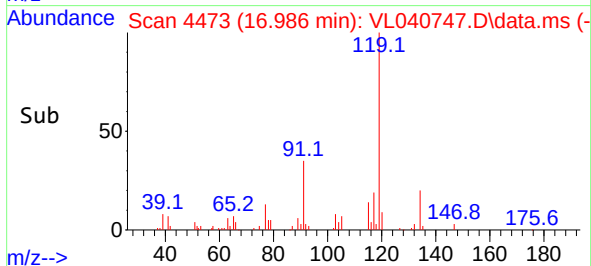


#69
p-Isopropyltoluene
Concen: 0.313 ppbv
RT: 16.986 min Scan# 4473
Delta R.T. -0.016 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :

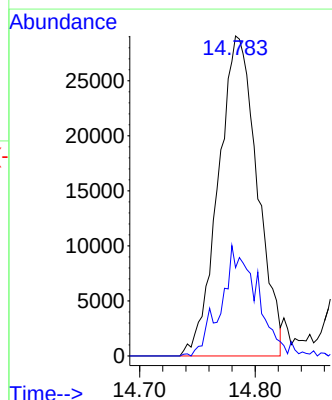
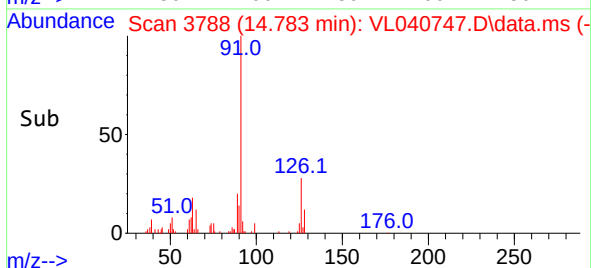
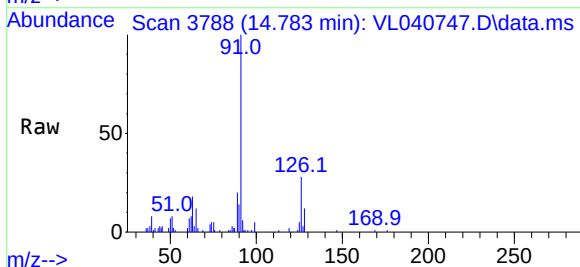


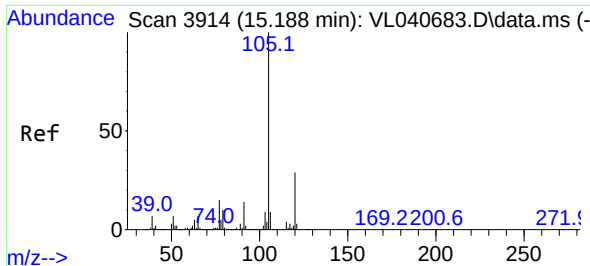
Tgt Ion:119 Resp: 89602
Ion Ratio Lower Upper
119 100
134 24.8 20.2 30.2
91 37.9 25.0 37.6#



#71
2-Chlorotoluene
Concen: 0.325 ppbv
RT: 14.783 min Scan# 3788
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion: 91 Resp: 68076
Ion Ratio Lower Upper
91 100
126 32.4 12.0 47.8

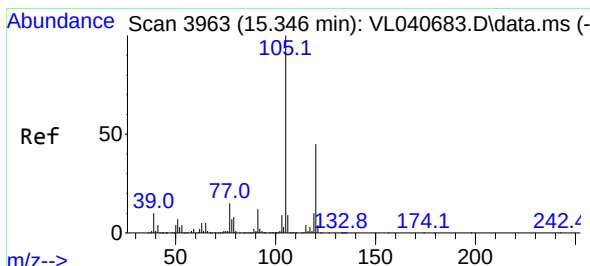
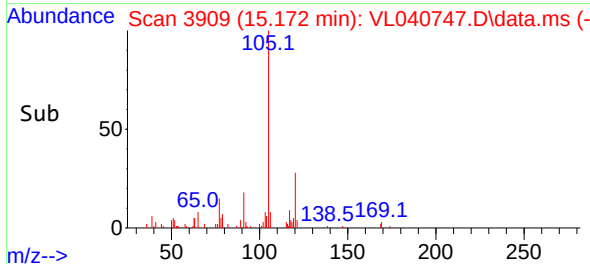
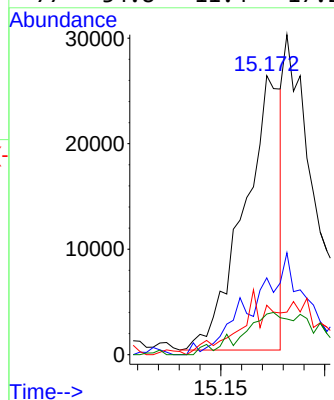
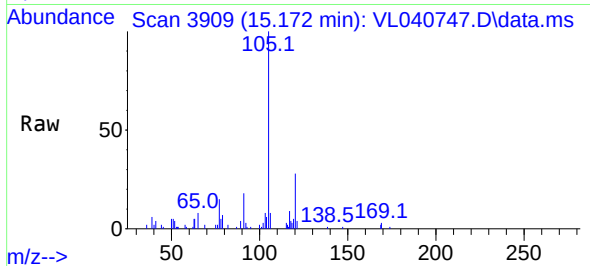




#72
4-Ethyltoluene
Concen: 0.153 ppbv
RT: 15.172 min Scan# 3909
Delta R.T. -0.029 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

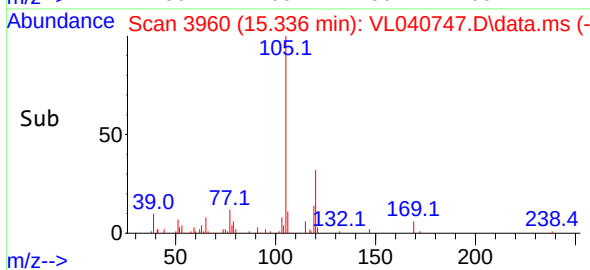
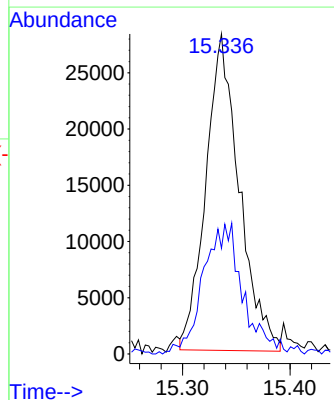
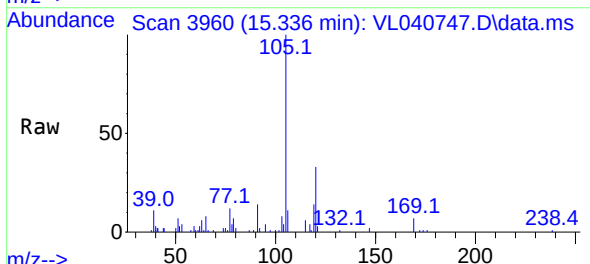
Instrument :
MSVOA_1
ClientSampleId :

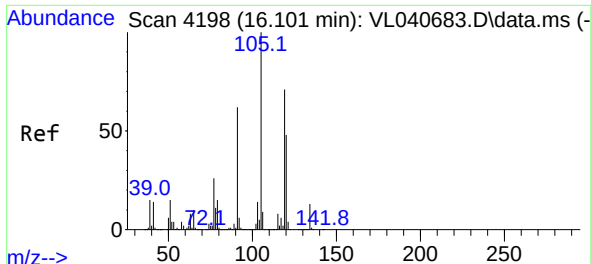
Tgt Ion:105	Resp:	32155
Ion Ratio	Lower	Upper
105	100	
120	0.0	23.9 35.9#
91	46.0	11.0 16.4#
77	34.8	11.4 17.2#



#73
1,3,5-Trimethylbenzene
Concen: 0.321 ppbv
RT: 15.336 min Scan# 3960
Delta R.T. -0.026 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:105	Resp:	60814
Ion Ratio	Lower	Upper
105	100	
120	32.4	36.1 54.1#

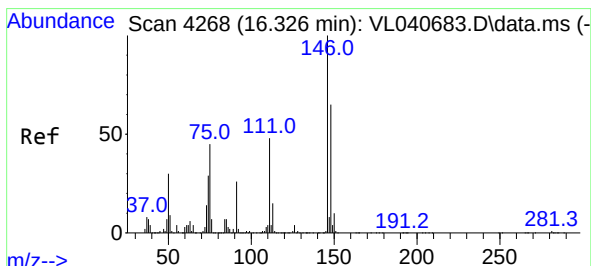
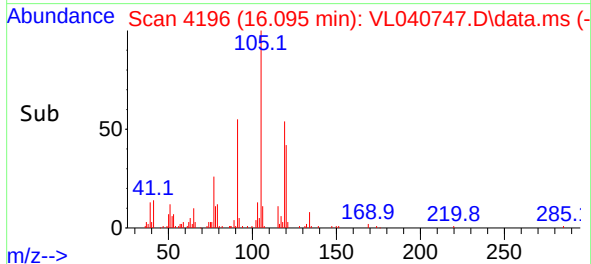
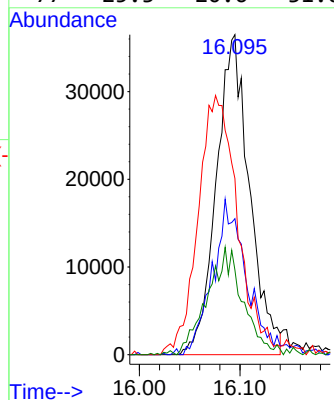
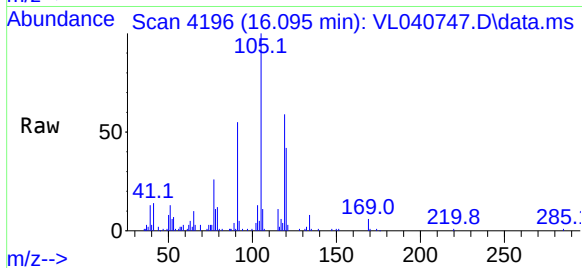




#74
1,2,4-Trimethylbenzene
Concen: 0.361 ppbv
RT: 16.095 min Scan# 4198
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

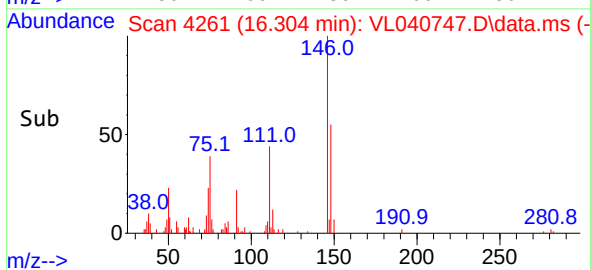
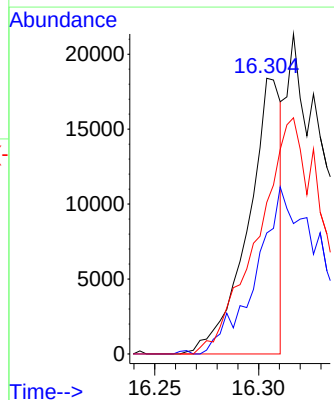
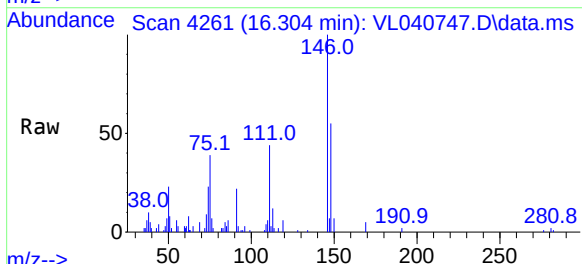
Instrument :
MSVOA_L
ClientSampleId :

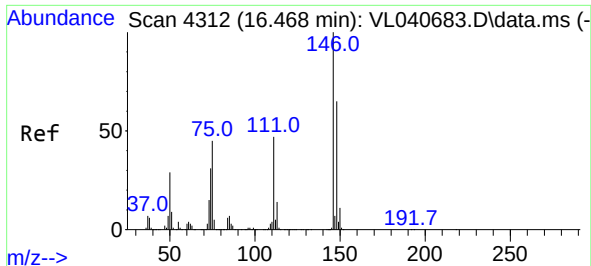
Tgt Ion:	105	Resp:	83310
Ion	Ratio	Lower	Upper
105	100		
120	42.5	38.6	57.8
91	52.4	50.0	75.0
77	25.3	20.6	31.0



#75
1,3-Dichlorobenzene
Concen: 0.155 ppbv
RT: 16.304 min Scan# 4261
Delta R.T. -0.035 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:	146	Resp:	20427
Ion	Ratio	Lower	Upper
146	100		
111	0.0	23.9	71.7#
148	0.0	31.8	95.4#

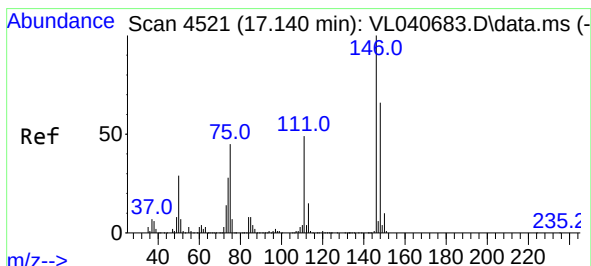
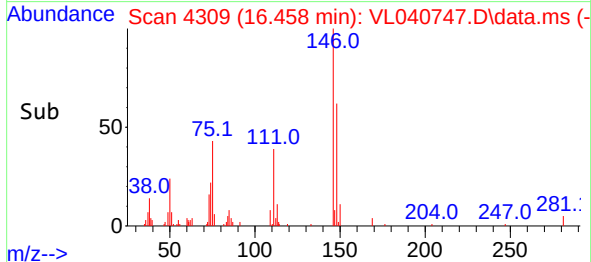
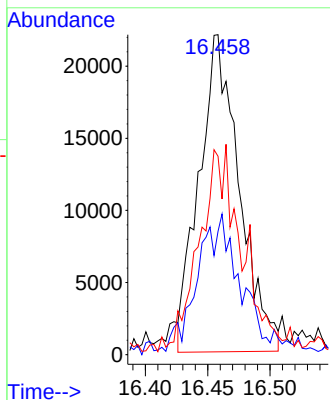
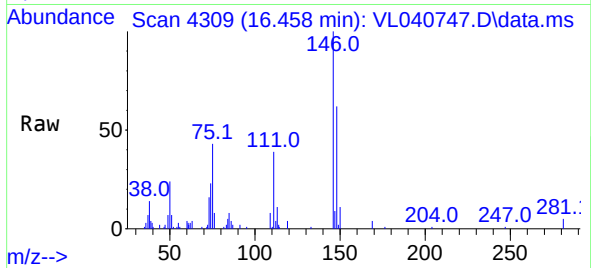




#76
1,4-Dichlorobenzene
Concen: 0.382 ppbv
RT: 16.458 min Scan# 41
Delta R.T. -0.022 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

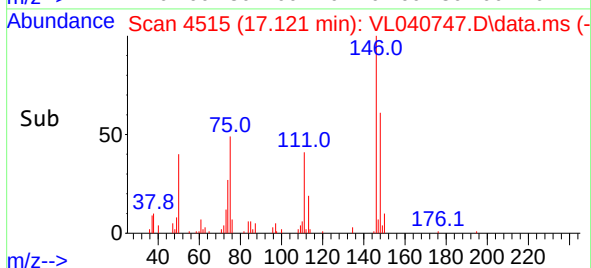
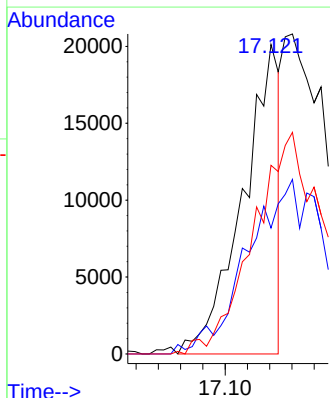
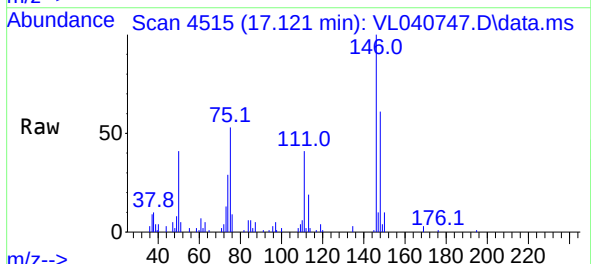
Instrument :
MSVOA_L
ClientSampleId :

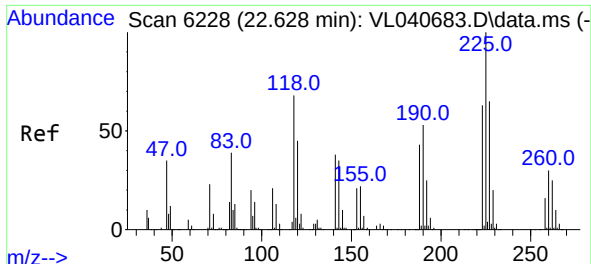
Tgt Ion:146 Resp: 49453
Ion Ratio Lower Upper
146 100
111 53.2 23.8 71.2
148 76.1 32.6 97.7



#77
1,2-Dichlorobenzene
Concen: 0.176 ppbv
RT: 17.121 min Scan# 4515
Delta R.T. -0.032 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

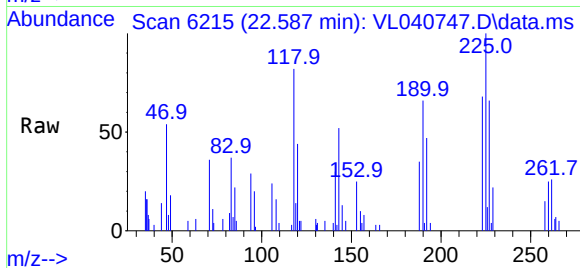
Tgt Ion:146 Resp: 23016
Ion Ratio Lower Upper
146 100
111 0.0 25.0 75.0#
148 0.0 32.4 97.0#



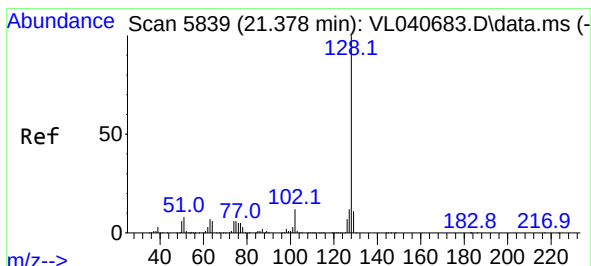
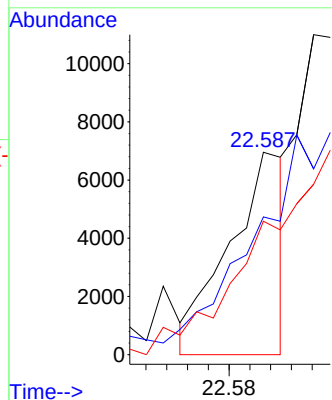
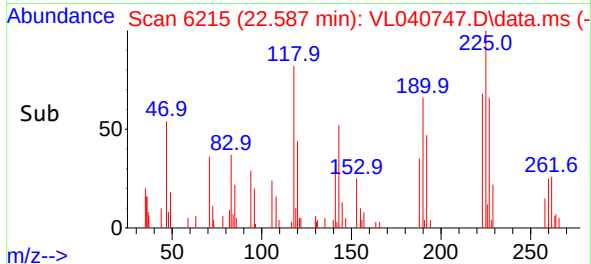


#78
Hexachloro-1,3-Butadiene
Concen: 0.052 ppbv
RT: 22.587 min Scan# 61
Delta R.T. -0.051 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:225 Resp: 5153
Ion Ratio Lower Upper
225 100
223 0.0 51.2 76.8#
227 0.0 50.7 76.1#



#79
Naphthalene
Concen: 0.082 ppbv
RT: 21.362 min Scan# 5834
Delta R.T. -0.032 min
Lab File: VL040747.D
Acq: 4 Oct 2023 19:33

Tgt Ion:128 Resp: 11763
Ion Ratio Lower Upper
128 100
127 13.8 9.8 14.6
129 14.7 8.4 12.6#

