

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL102323\
 Data File : VL040785.D
 Acq On : 23 Oct 2023 19:15
 Operator : SY/MD
 Sample : 04699-15 0.40 MDL
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Oct 24 16:12:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Oct 24 16:11:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.185	49	884005	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	6.642	114	2508830	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.446	117	2288610	10.000	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.754	95	1747255	10.376	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.735	85	73320	0.471	ppbv	100
3) Chlorodifluoromethane	2.684	51	58228	0.448	ppbv	99
4) Chloromethane	2.819	50	22646	0.441	ppbv	90
5) Vinyl Chloride	2.925	62	19645	0.371	ppbv	91
6) Bromomethane	3.124	94	10339	0.471	ppbv	82
7) Chloroethane	3.198	64	6865	0.398	ppbv	97
8) Dichlorotetrafluoroethane	2.861	85	52285	0.443	ppbv	97
9) Propene	2.703	41	22235	0.461	ppbv	98
10) Heptane	7.561	43	48435	0.400	ppbv	93
11) Trichlorofluoromethane	3.558	101	53948	0.449	ppbv	88
12) 1,1,2-Trichlorotrifluo...	4.063	101	35372	0.413	ppbv	93
13) Ethanol	3.266	45	1538	0.141	ppbv #	38
14) Bromoethene	3.369	108	15512	0.423	ppbv #	85
15) Acetone	3.484	43	52422	0.574	ppbv	92
16) 1,3-Butadiene	2.993	39	17165	0.358	ppbv #	80
17) tert-Butyl alcohol	3.893	59	34105	0.364	ppbv	96
18) 1,1-Dichloroethene	3.877	96	11108	0.289	ppbv	89
20) Methylene Chloride	3.928	84	20928	0.550	ppbv #	88
21) Allyl Chloride	3.999	41	25147	0.417	ppbv	94
22) trans-1,2-Dichloroethene	4.449	96	3378	0.083	ppbv #	49
23) Vinyl Acetate	4.629	43	37125	0.319	ppbv #	95
24) 1,1-Dichloroethane	4.555	63	35188	0.401	ppbv #	95
25) Ethyl Acetate	5.205	43	81917	0.409	ppbv	96
26) Hexane	5.201	57	42249	0.462	ppbv	94
27) Carbon Disulfide	4.121	76	34669	0.343	ppbv #	46
28) Methyl tert-Butyl Ether	4.594	73	17288	0.243	ppbv #	66
29) Chloroform	5.263	83	55441	0.419	ppbv	100
30) Cyclohexane	6.584	84	17913	0.230	ppbv #	18
31) cis-1,2-Dichloroethene	5.070	61	35897	0.426	ppbv #	87
32) 1,1,1-Trichloroethane	5.989	97	53798	0.382	ppbv	92
34) 2-Butanone	4.800	43	43844	0.386	ppbv #	85
35) Carbon Tetrachloride	6.478	117	53497	0.380	ppbv	84
36) Benzene	6.353	78	38119	0.198	ppbv	99
37) 1,2-Dichloroethane	5.793	62	41077	0.416	ppbv #	95
38) Trichloroethene	7.279	130	19907	0.233	ppbv	90
39) 1,2-Dichloropropane	7.053	63	27867	0.370	ppbv #	83
41) Tetrahydrofuran	5.571	42	19846	0.252	ppbv #	58
42) Bromodichloromethane	7.234	83	59439	0.401	ppbv	91
43) Methyl Methacrylate	7.475	69	26816	0.347	ppbv	88
44) 2,2,4-Trimethylpentane	7.314	57	137968	0.423	ppbv	99
45) t-1,3-Dichloropropene	8.693	75	1959	0.032	ppbv	97
46) cis-1,3-Dichloropropene	8.127	75	25597	0.340	ppbv #	94
47) 1,1,2-Trichloroethane	8.883	97	34248	0.432	ppbv	91

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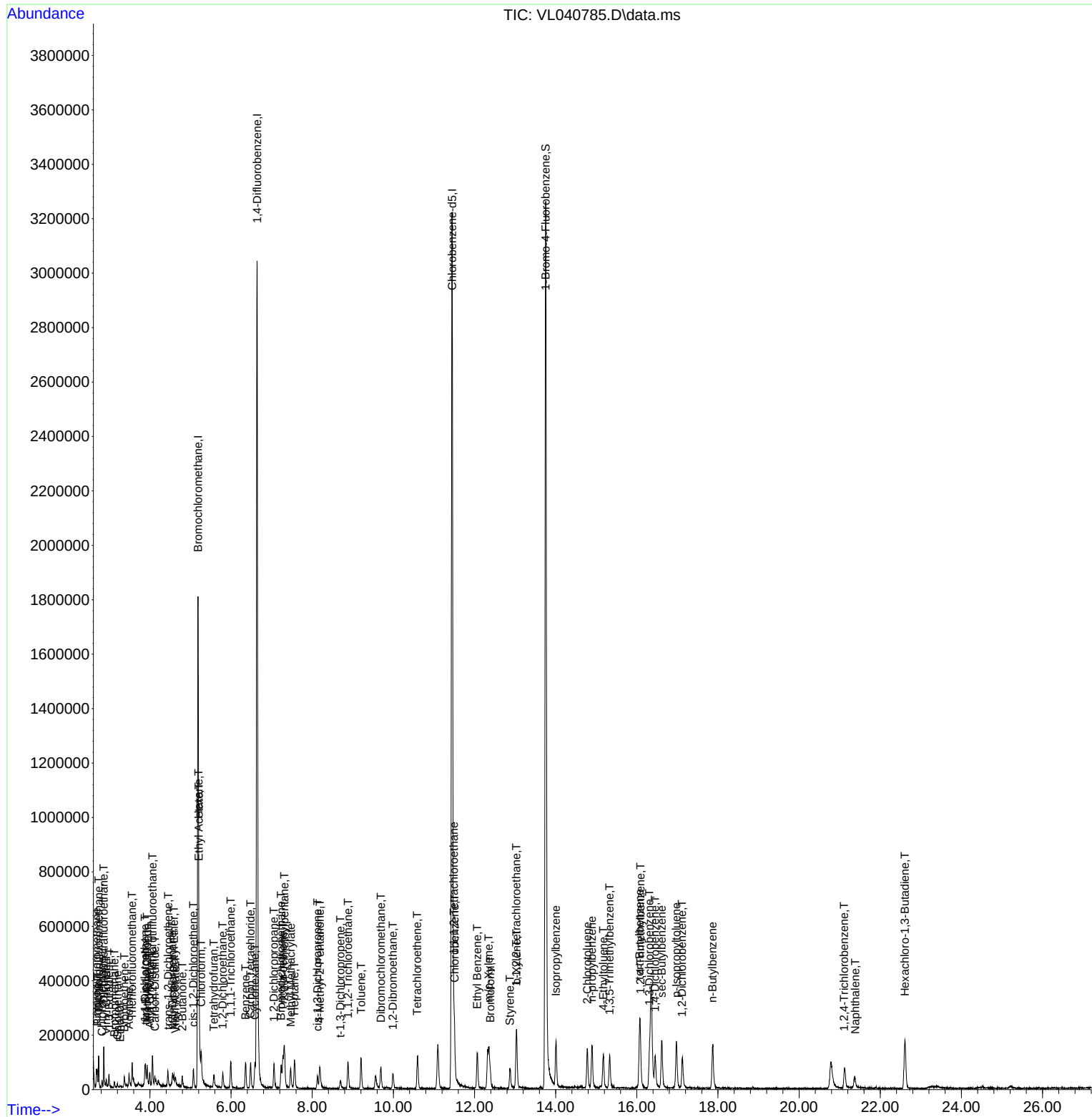
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) Dibromochloromethane	9.693	129	46316	0.349	ppbv	98
49) Bromoform	12.388	173	23258	0.216	ppbv #	65
50) 4-Methyl-2-Pentanone	8.188	43	67945	0.350	ppbv	91
52) Tetrachloroethene	10.587	164	11571	0.148	ppbv	88
53) Toluene	9.204	91	89845	0.391	ppbv	100
54) 1,2-Dibromoethane	9.989	107	25122	0.226	ppbv	92
56) 1,1,1,2-Tetrachloroethane	11.491	131	34778	0.372	ppbv #	64
57) Chlorobenzene	11.510	112	36108	0.220	ppbv	98
58) Ethyl Benzene	12.063	91	56086	0.195	ppbv	94
59) m/p-Xylene	12.346	91	36623	0.154	ppbv #	30
60) o-Xylene	13.037	91	95944	0.425	ppbv	97
61) Styrene	12.870	104	19059	0.152	ppbv #	29
62) Isopropylbenzene	14.008	105	154287	0.444	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.031	83	68150	0.402	ppbv	98
64) n-propylbenzene	14.889	120	23214	0.249	ppbv	74
65) tert-Butylbenzene	16.066	119	76085	0.243	ppbv #	32
67) sec-Butylbenzene	16.616	105	183288	0.427	ppbv	98
69) p-Isopropyltoluene	16.973	119	144499	0.402	ppbv	98
70) n-Butylbenzene	17.863	91	64870	0.184	ppbv #	17
71) 2-Chlorotoluene	14.780	91	102019	0.391	ppbv	93
72) 4-Ethyltoluene	15.172	105	107127	0.405	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.326	105	46318	0.199	ppbv	91
74) 1,2,4-Trimethylbenzene	16.092	105	47747	0.188	ppbv	90
75) 1,3-Dichlorobenzene	16.307	146	30724	0.194	ppbv #	4
76) 1,4-Dichlorobenzene	16.449	146	60379	0.385	ppbv	91
77) 1,2-Dichlorobenzene	17.114	146	21656	0.139	ppbv #	23
78) Hexachloro-1,3-Butadiene	22.609	225	35934	0.323	ppbv #	66
79) Naphthalene	21.384	128	12629	0.061	ppbv	95
81) 1,2,4-Trichlorobenzene	21.104	180	7212	0.064	ppbv #	11

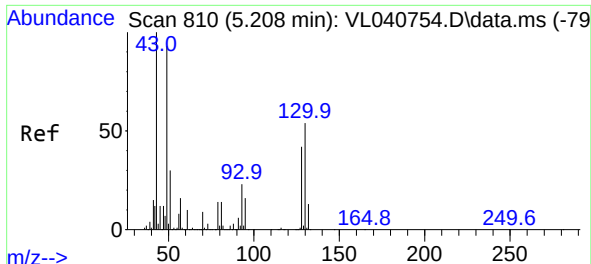
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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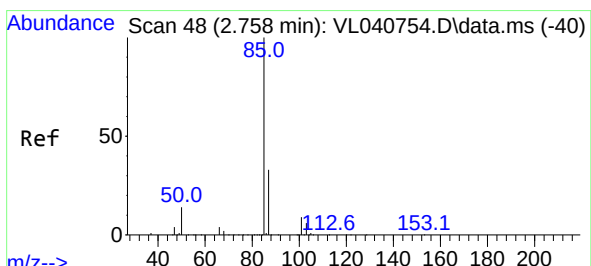
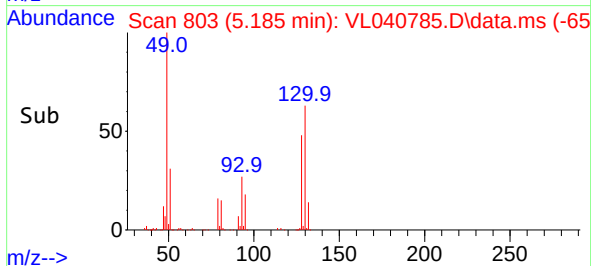
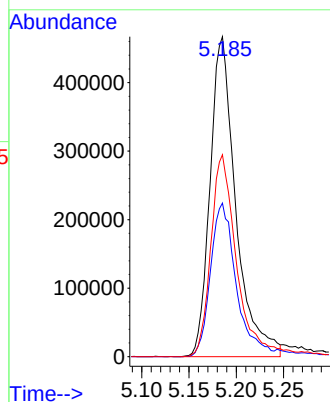
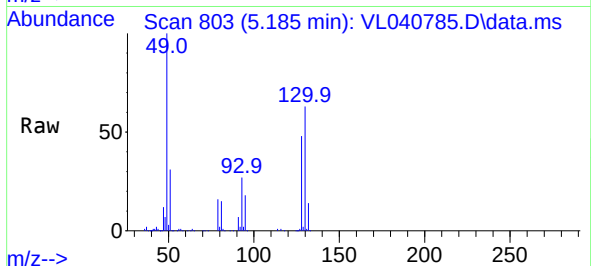




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.023 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

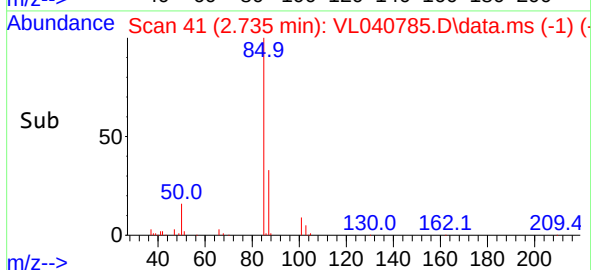
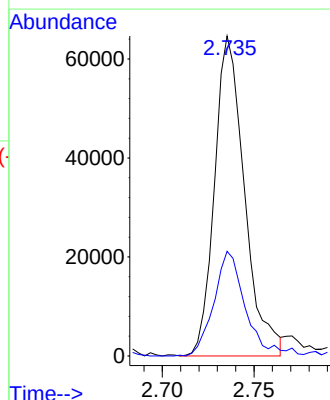
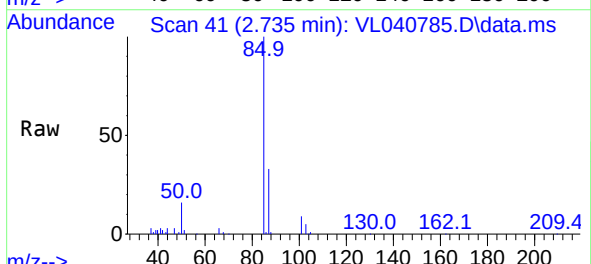
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 49 Resp: 884005
Ion Ratio Lower Upper
49 100
128 50.4 23.9 71.7
130 65.5 30.7 92.1

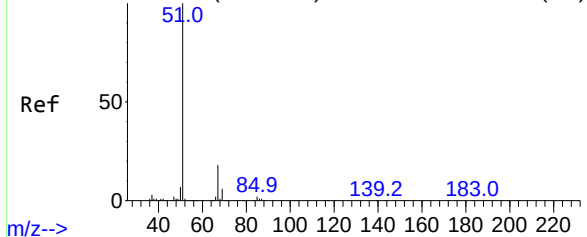


#2
Dichlorodifluoromethane
Concen: 0.471 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 85 Resp: 73320
Ion Ratio Lower Upper
85 100
87 32.4 26.0 39.0



Abundance Scan 31 (2.703 min): VL040754.D\data.ms (-19)

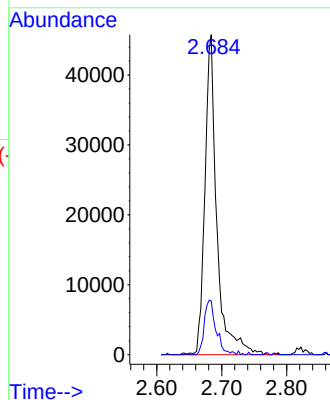
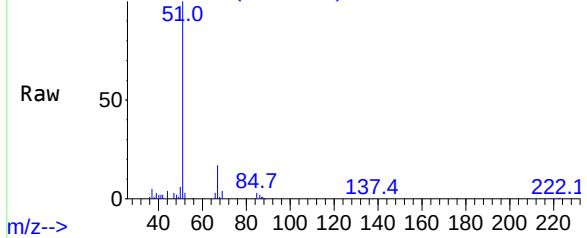


#3
Chlorodifluoromethane
Concen: 0.448 ppbv
RT: 2.684 min Scan# 21
Delta R.T. -0.019 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

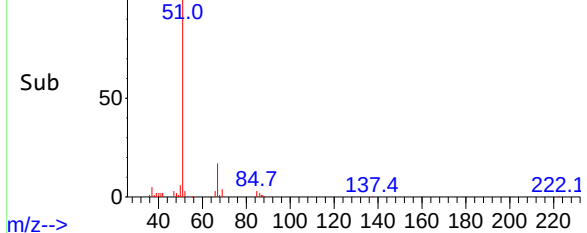
Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 51 Resp: 58228
Ion Ratio Lower Upper
51 100
67 16.9 13.8 20.6

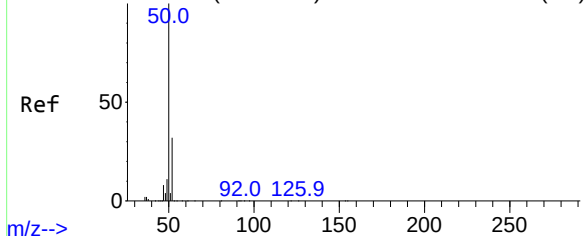
Abundance Scan 25 (2.684 min): VL040785.D\data.ms



Abundance Scan 25 (2.684 min): VL040785.D\data.ms (-1) (-



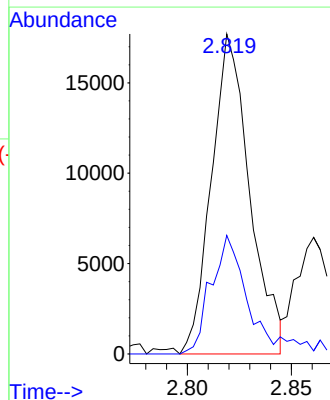
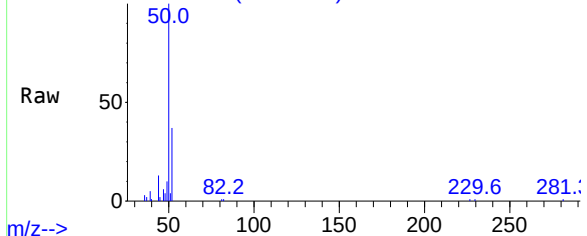
Abundance Scan 74 (2.841 min): VL040754.D\data.ms (-65)



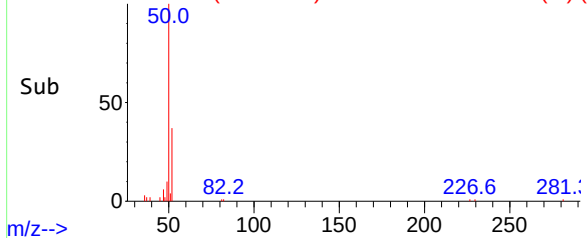
#4
Chloromethane
Concen: 0.441 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

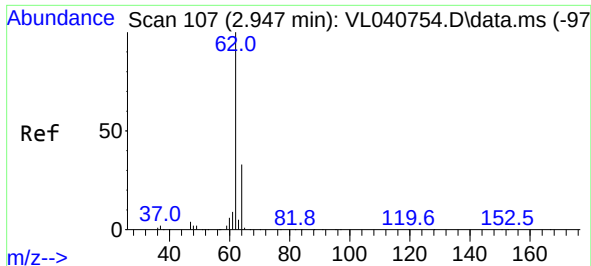
Tgt Ion: 50 Resp: 22646
Ion Ratio Lower Upper
50 100
52 37.0 25.3 37.9

Abundance Scan 67 (2.819 min): VL040785.D\data.ms



Abundance Scan 67 (2.819 min): VL040785.D\data.ms (-1) (-

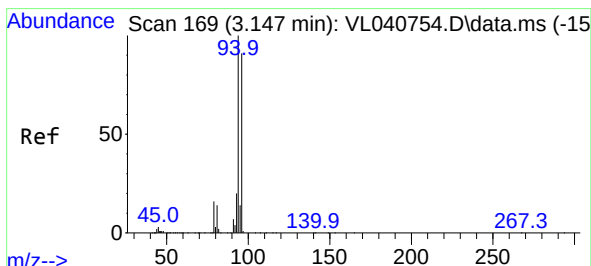
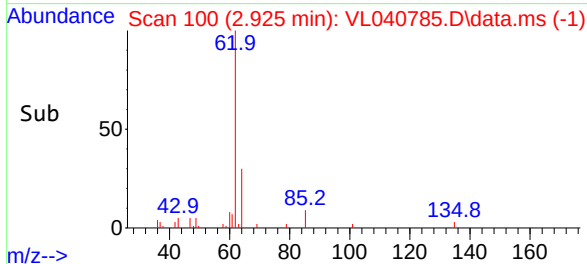
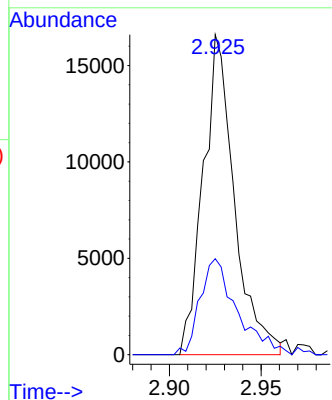
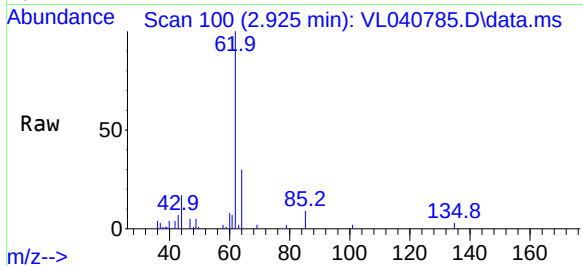




#5
 Vinyl Chloride
 Concen: 0.371 ppbv
 RT: 2.925 min Scan# 107
 Delta R.T. -0.022 min
 Lab File: VL040785.D
 Acq: 23 Oct 2023 19:15

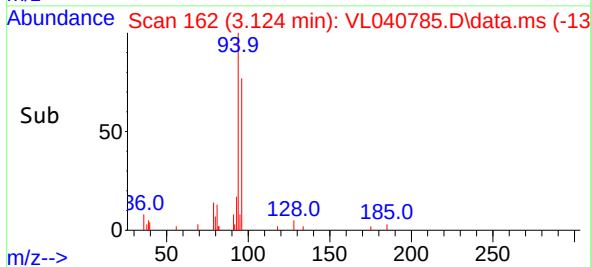
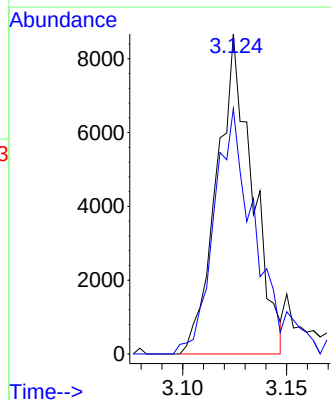
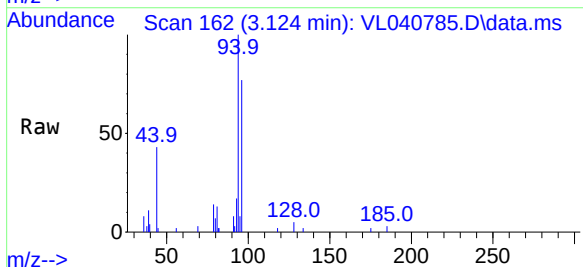
Instrument :
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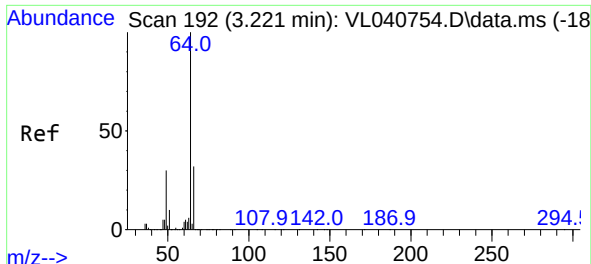
Tgt Ion: 62 Resp: 19645
 Ion Ratio Lower Upper
 62 100
 64 27.9 26.6 39.8



#6
 Bromomethane
 Concen: 0.471 ppbv
 RT: 3.124 min Scan# 162
 Delta R.T. -0.022 min
 Lab File: VL040785.D
 Acq: 23 Oct 2023 19:15

Tgt Ion: 94 Resp: 10339
 Ion Ratio Lower Upper
 94 100
 96 73.7 72.6 109.0

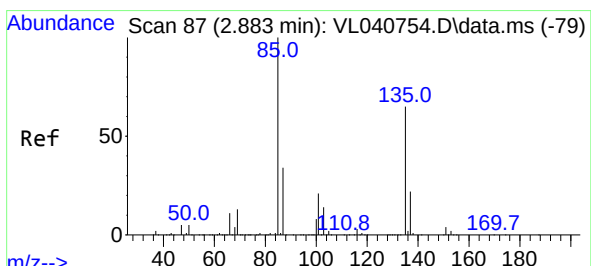
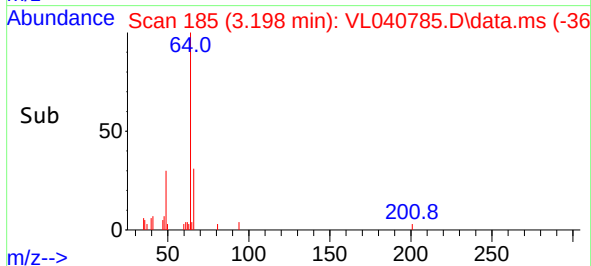
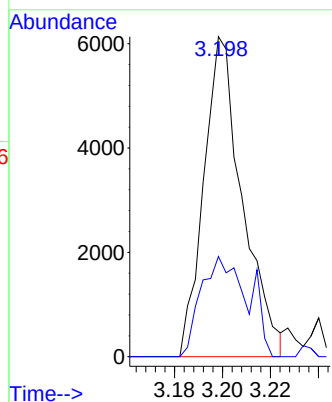
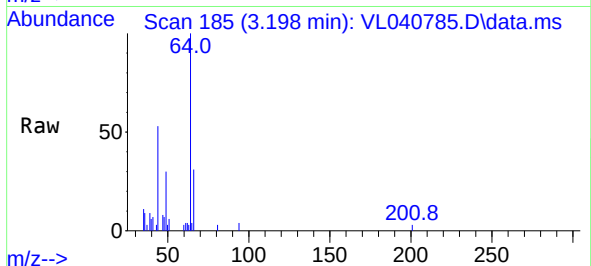




#7
Chloroethane
Concen: 0.398 ppbv
RT: 3.198 min Scan# 11
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

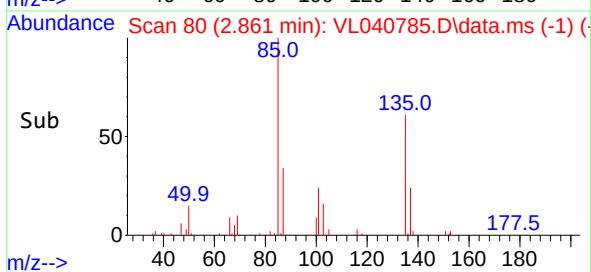
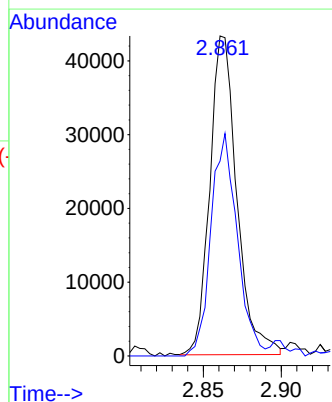
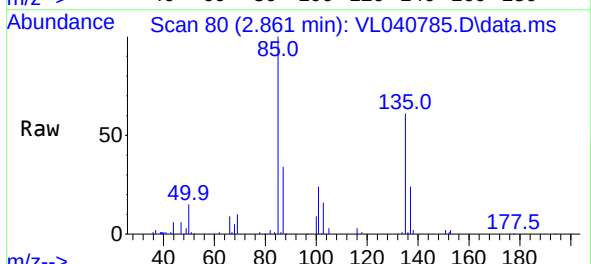
Instrument :
MSVOA_L
ClientSampleId :

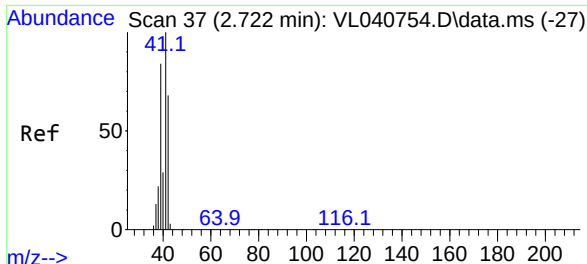
Tgt Ion: 64 Resp: 6865
Ion Ratio Lower Upper
64 100
66 30.1 25.4 38.2



#8
Dichlorotetrafluoroethane
Concen: 0.443 ppbv
RT: 2.861 min Scan# 80
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 85 Resp: 52285
Ion Ratio Lower Upper
85 100
135 72.2 55.4 83.2





#9

Propene

Concen: 0.461 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.019 min

Lab File: VL040785.D

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Instrument :

MSVOA_L

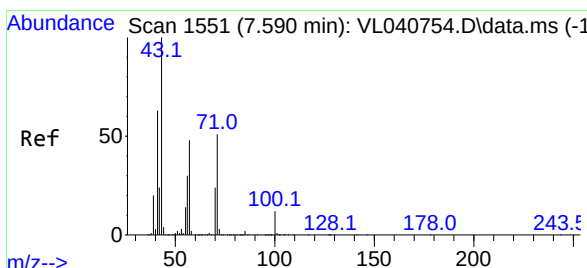
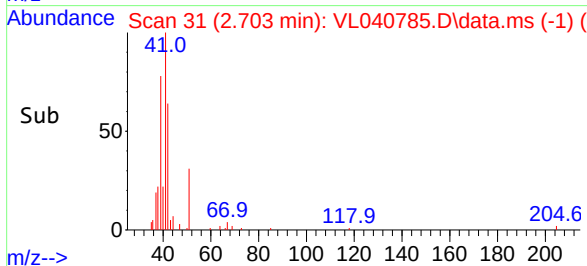
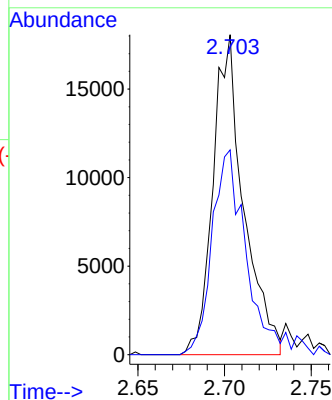
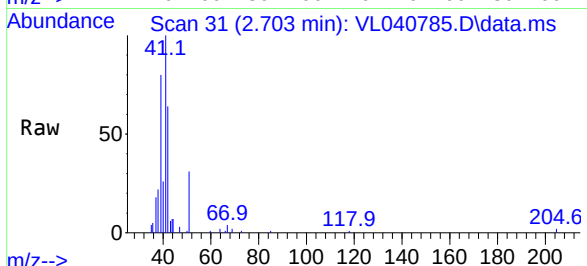
ClientSampleId :

Tgt Ion: 41 Resp: 22235

Ion Ratio Lower Upper

41 100

42 73.1 57.1 85.7



#10

Heptane

Concen: 0.400 ppbv

RT: 7.561 min Scan# 1542

Delta R.T. -0.029 min

Lab File: VL040785.D

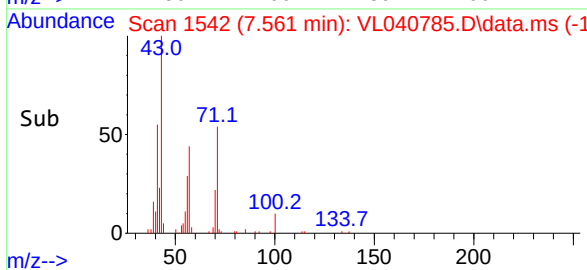
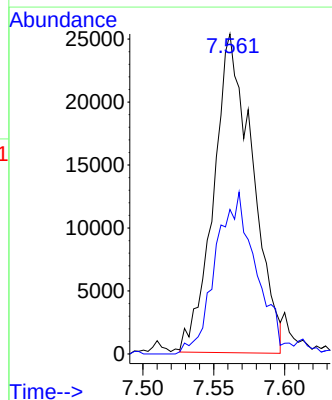
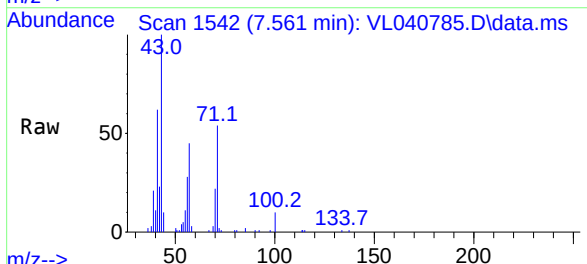
Acq: 23 Oct 2023 19:15

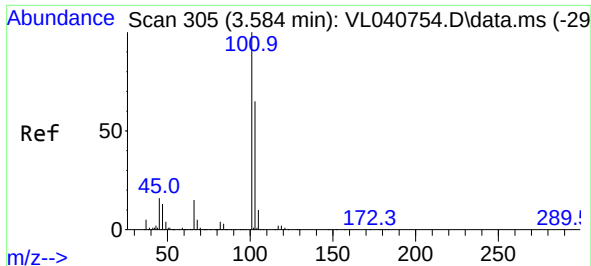
Tgt Ion: 43 Resp: 48435

Ion Ratio Lower Upper

43 100

57 54.7 40.0 60.0

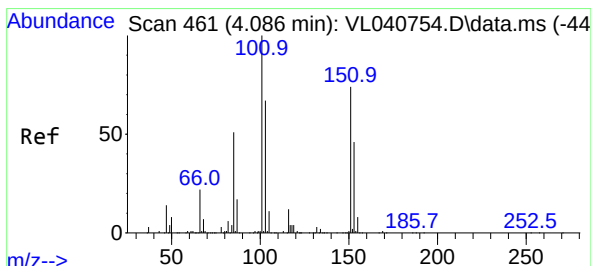
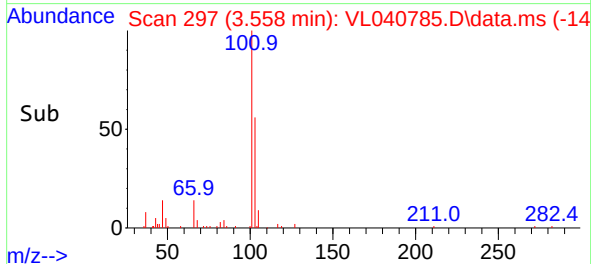
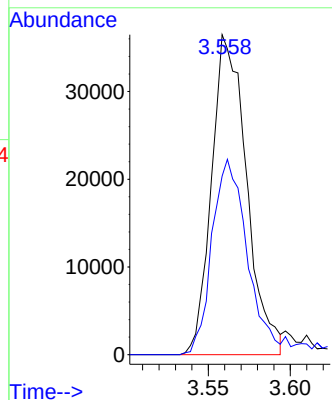
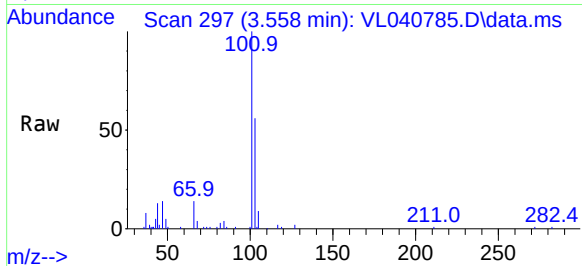




#11
 Trichlorofluoromethane
 Concen: 0.449 ppbv
 RT: 3.558 min Scan# 24
 Delta R.T. -0.026 min
 Lab File: VL040785.D
 Acq: 23 Oct 2023 19:15

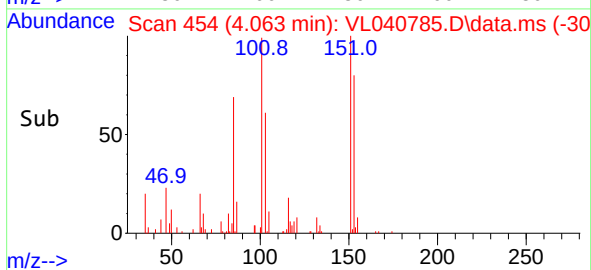
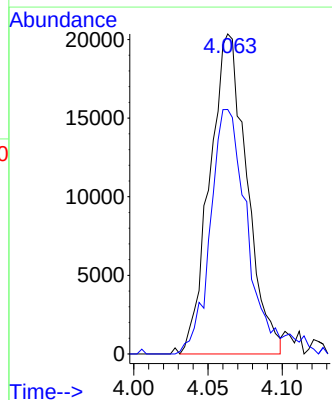
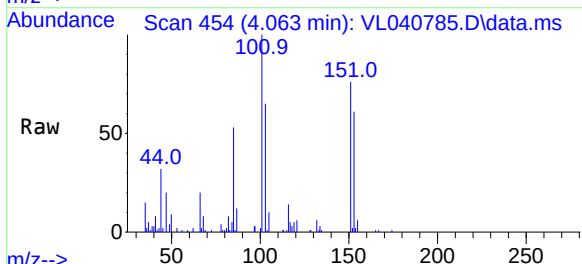
Instrument :
 MSVOA_L
 ClientSampleId :

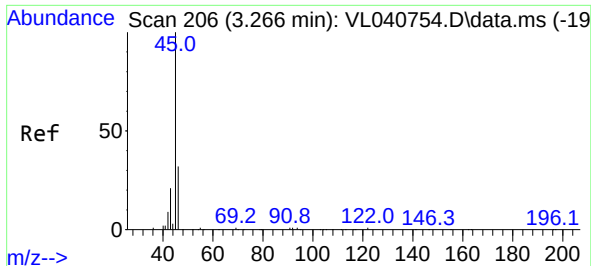
Tgt Ion:101 Resp: 53948
 Ion Ratio Lower Upper
 101 100
 103 55.8 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.413 ppbv
 RT: 4.063 min Scan# 454
 Delta R.T. -0.022 min
 Lab File: VL040785.D
 Acq: 23 Oct 2023 19:15

Tgt Ion:101 Resp: 35372
 Ion Ratio Lower Upper
 101 100
 151 78.1 58.1 87.1

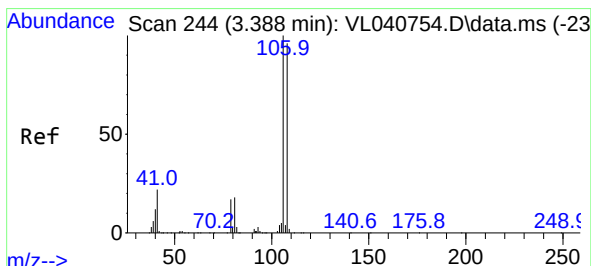
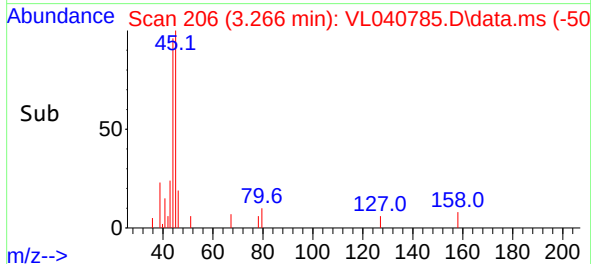
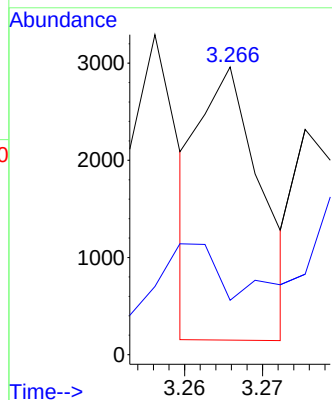
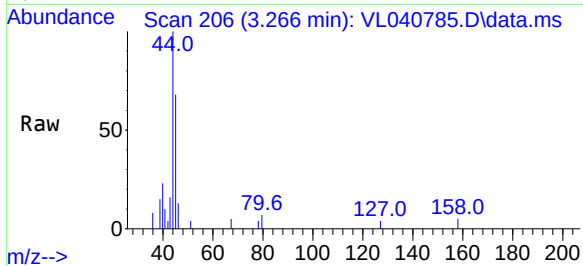




#13
Ethanol
Concen: 0.141 ppbv
RT: 3.266 min Scan# 206
Delta R.T. 0.000 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

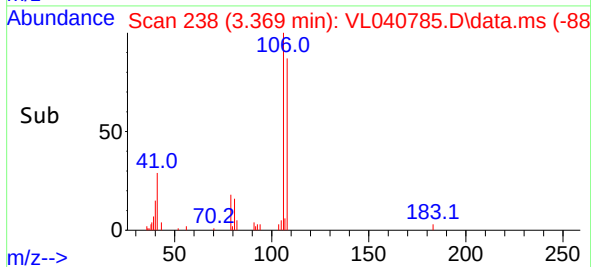
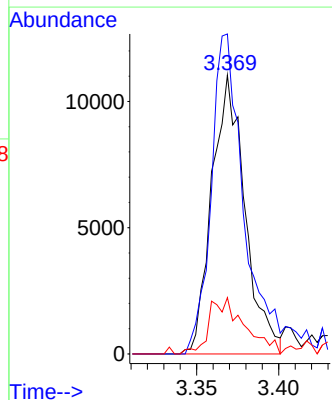
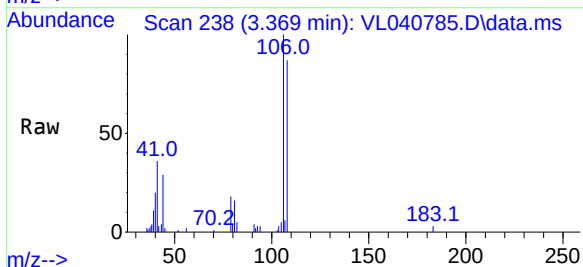
Instrument :
MSVOA_L
ClientSampleId :

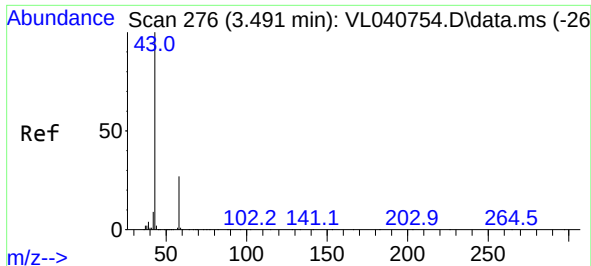
Tgt Ion: 45 Resp: 1538
Ion Ratio Lower Upper
45 100
46 0.0 14.6 58.2#



#14
Bromoethene
Concen: 0.423 ppbv
RT: 3.369 min Scan# 238
Delta R.T. -0.019 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 108 Resp: 15512
Ion Ratio Lower Upper
108 100
106 122.0 85.2 127.8
79 26.5 15.7 23.5#

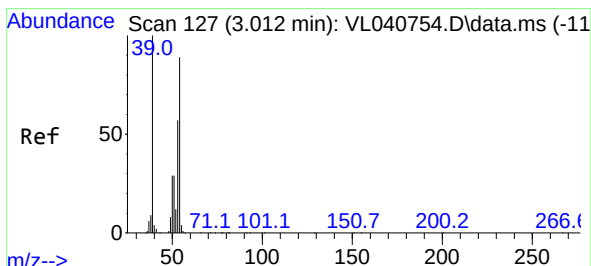
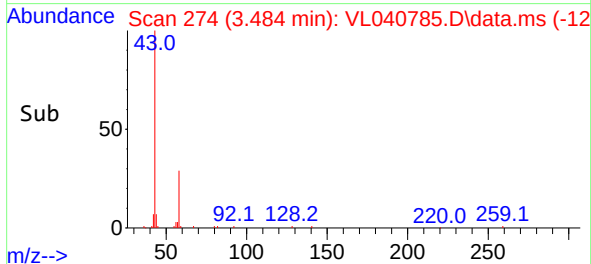
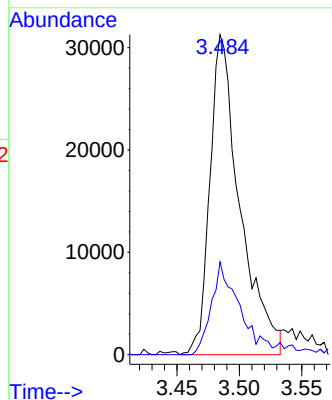
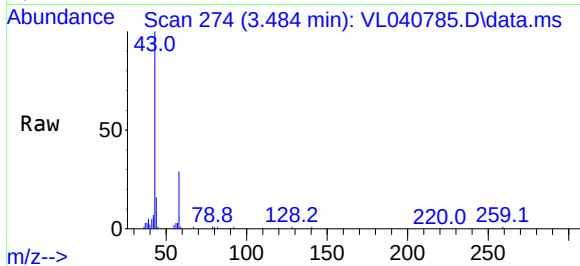




#15
Acetone
Concen: 0.574 ppbv
RT: 3.484 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

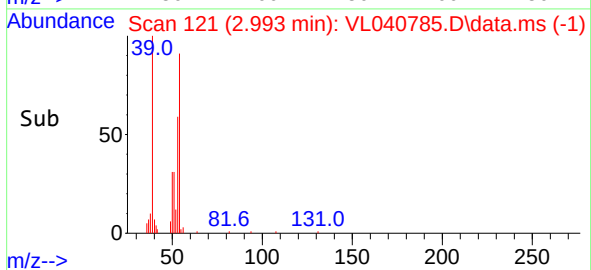
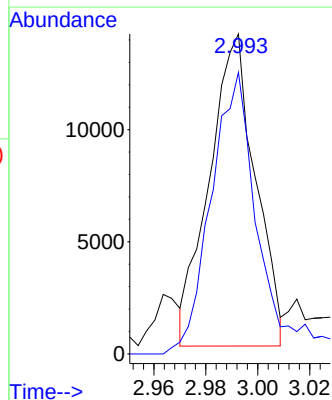
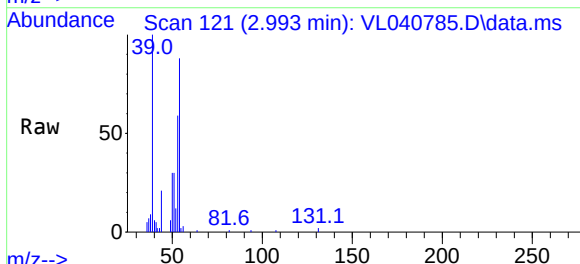
Instrument :
MSVOA_L
ClientSampleId :

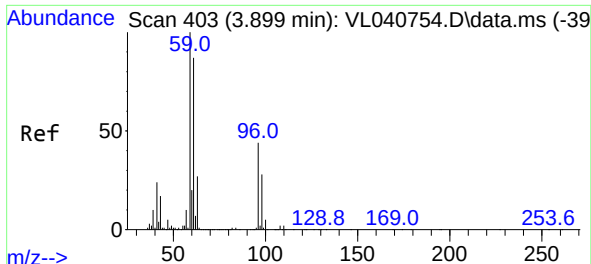
Tgt Ion: 43 Resp: 52422
Ion Ratio Lower Upper
43 100
58 31.1 21.6 32.4



#16
1,3-Butadiene
Concen: 0.358 ppbv
RT: 2.993 min Scan# 121
Delta R.T. -0.019 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 39 Resp: 17165
Ion Ratio Lower Upper
39 100
54 96.5 63.0 94.6#





#17

tert-Butyl alcohol

Concen: 0.364 ppbv

RT: 3.893 min Scan# 403

Delta R.T. -0.006 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

Instrument :

MSVOA_L

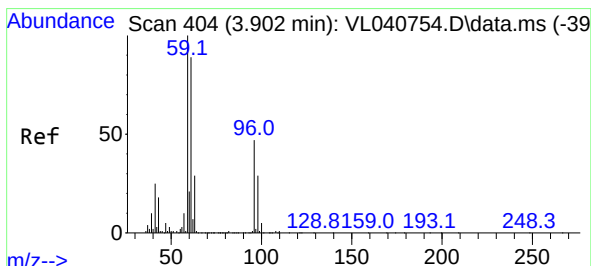
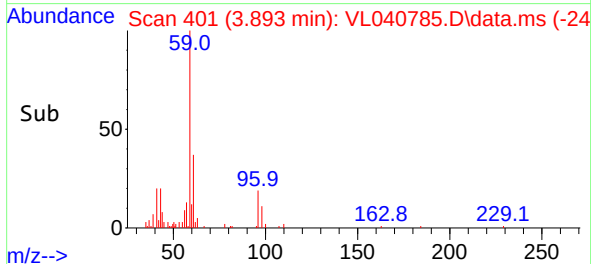
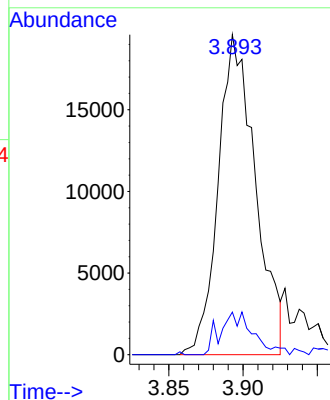
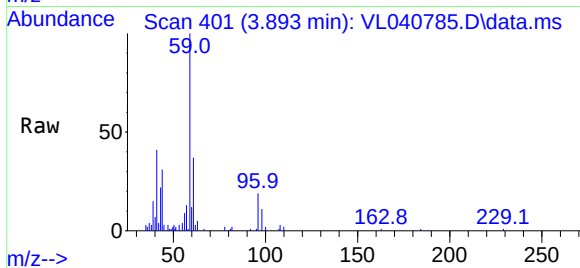
ClientSampleId :

Tgt Ion: 59 Resp: 34105

Ion Ratio Lower Upper

59 100

57 12.4 8.6 13.0



#18

1,1-Dichloroethene

Concen: 0.289 ppbv

RT: 3.877 min Scan# 396

Delta R.T. -0.026 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

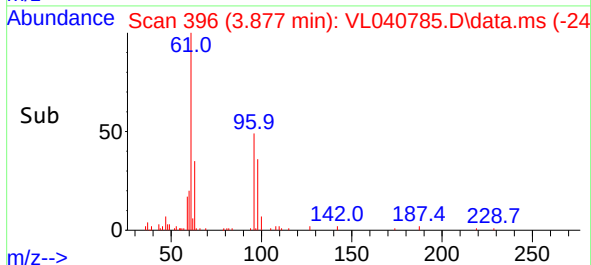
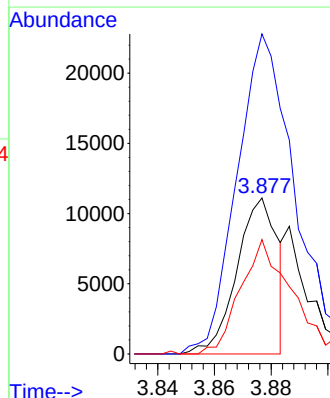
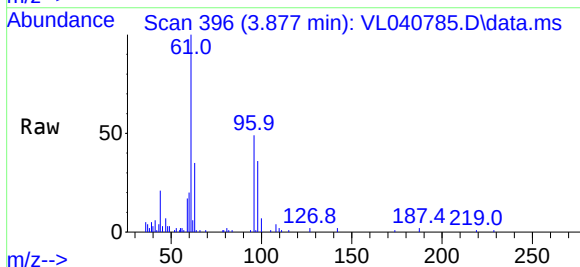
Tgt Ion: 96 Resp: 11108

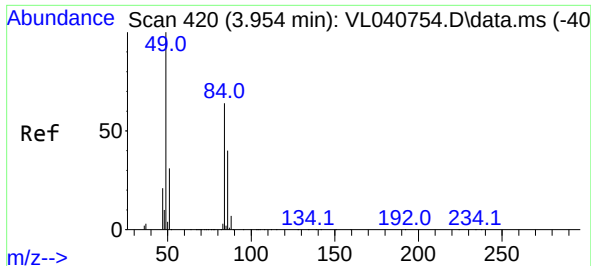
Ion Ratio Lower Upper

96 100

61 205.1 152.5 228.7

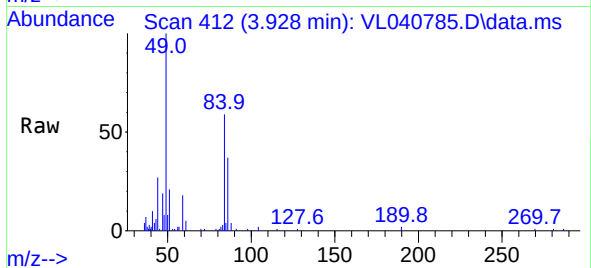
98 73.3 49.6 74.4



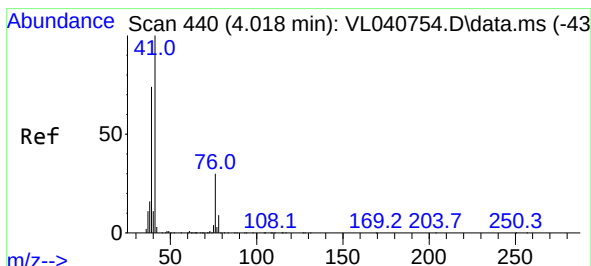
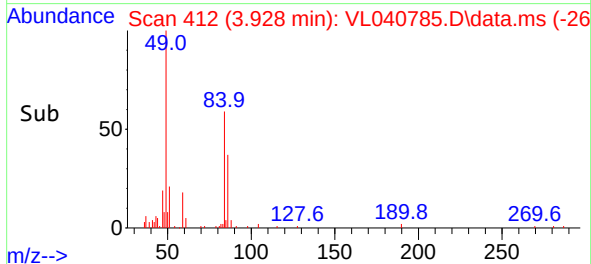
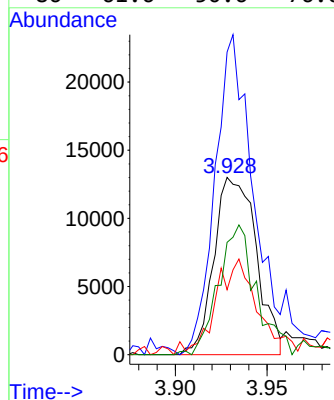


#20
Methylene Chloride
Concen: 0.550 ppbv
RT: 3.928 min Scan# 412
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :

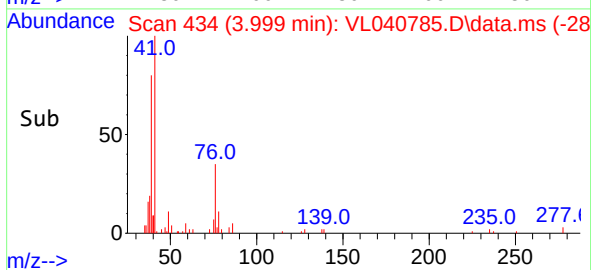
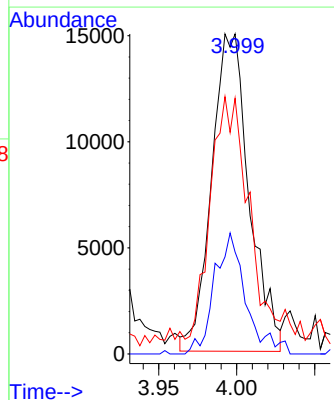
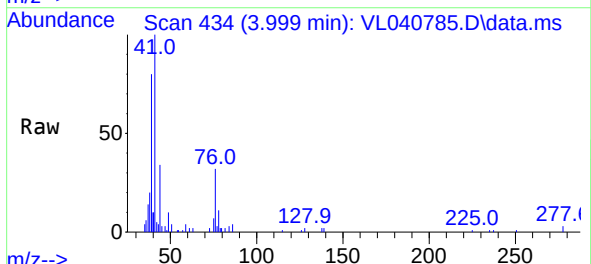


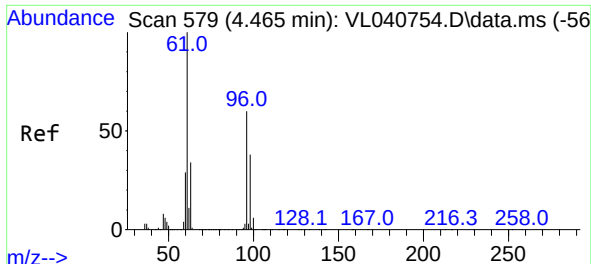
Tgt Ion: 84 Resp: 20928
Ion Ratio Lower Upper
84 100
49 170.7 125.6 188.4
51 29.3 38.9 58.3#
86 61.6 50.6 76.0



#21
Allyl Chloride
Concen: 0.417 ppbv
RT: 3.999 min Scan# 434
Delta R.T. -0.019 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 41 Resp: 25147
Ion Ratio Lower Upper
41 100
76 31.7 24.1 36.1
39 86.6 63.8 95.6

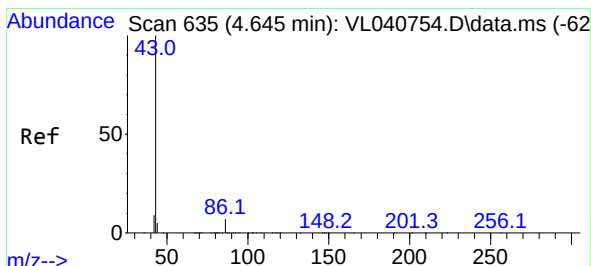
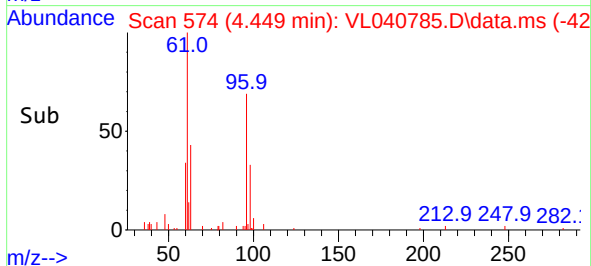
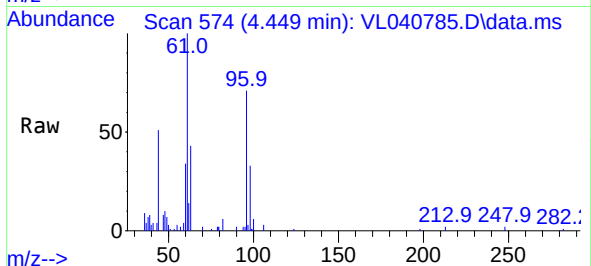




#22
trans-1,2-Dichloroethene
Concen: 0.083 ppbv
RT: 4.449 min Scan# 51
Delta R.T. -0.016 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

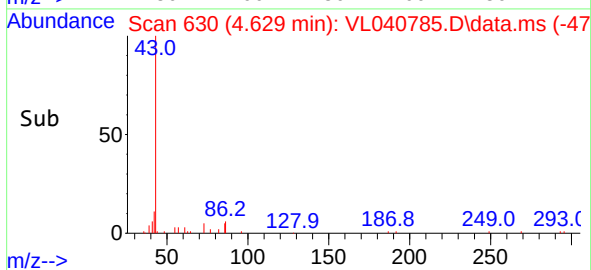
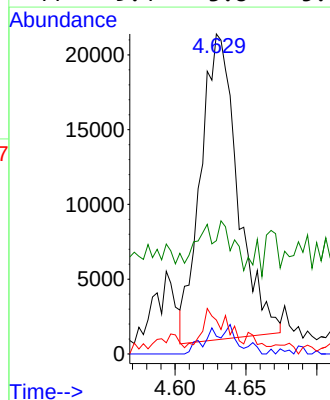
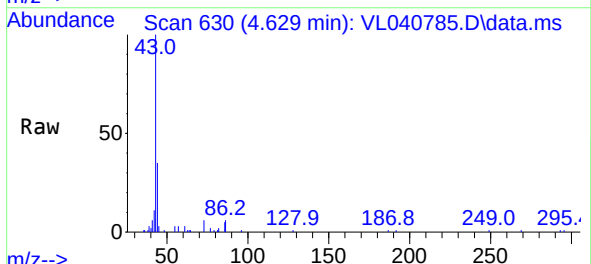
Instrument :
MSVOA_L
ClientSampleId :

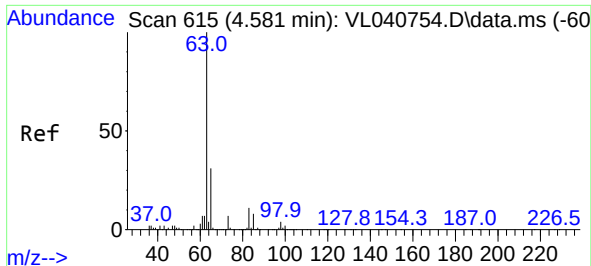
Tgt Ion: 96 Resp: 3378
Ion Ratio Lower Upper
96 100
61 89.5 134.0 201.0#
98 37.4 51.0 76.4#



#23
Vinyl Acetate
Concen: 0.319 ppbv
RT: 4.629 min Scan# 630
Delta R.T. -0.016 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

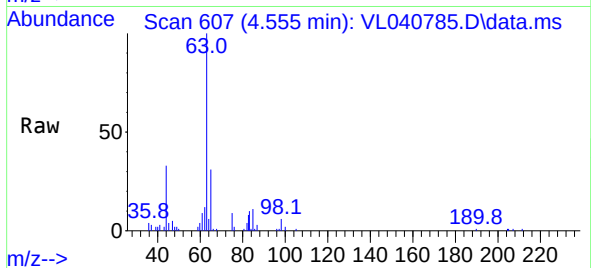
Tgt Ion: 43 Resp: 37125
Ion Ratio Lower Upper
43 100
86 6.1 4.9 7.3
42 8.7 7.8 11.6
44 9.4 3.8 5.6#



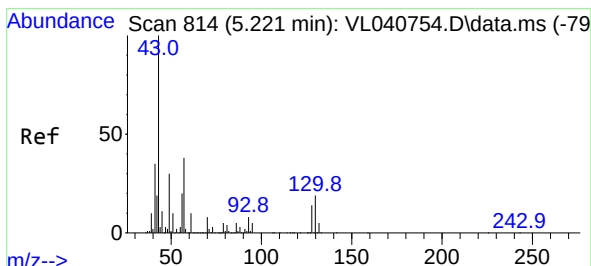
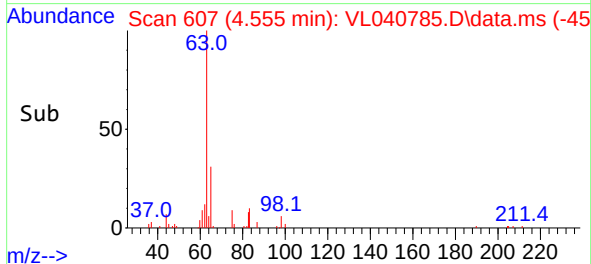
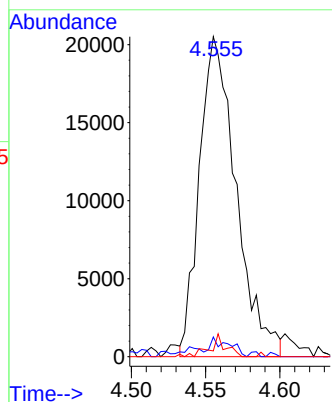


#24
1,1-Dichloroethane
Concen: 0.401 ppbv
RT: 4.555 min Scan# 609
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :

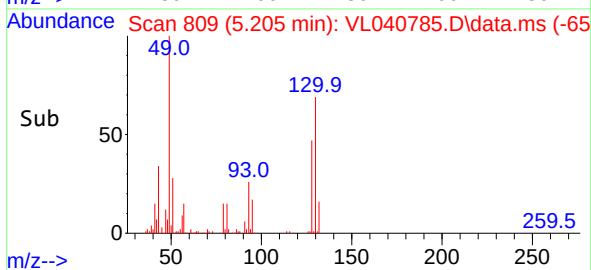
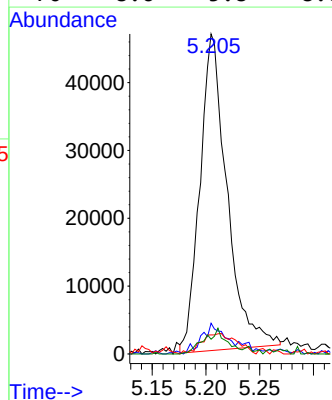
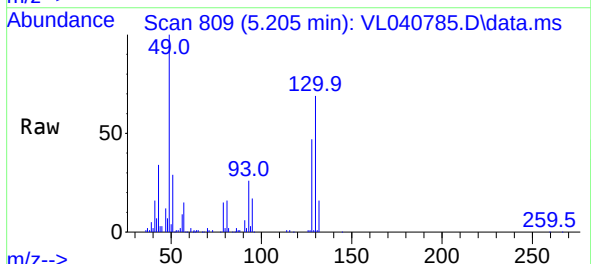


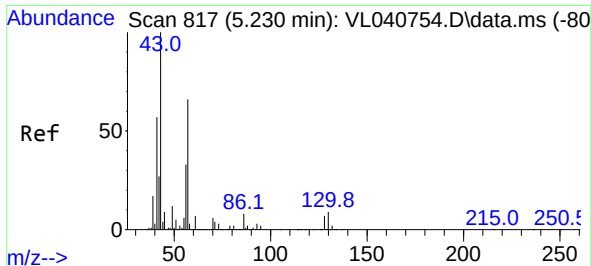
Tgt Ion: 63 Resp: 35188
Ion Ratio Lower Upper
63 100
98 6.3 2.0 5.8#
100 1.8 1.3 3.8



#25
Ethyl Acetate
Concen: 0.409 ppbv
RT: 5.205 min Scan# 809
Delta R.T. -0.016 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

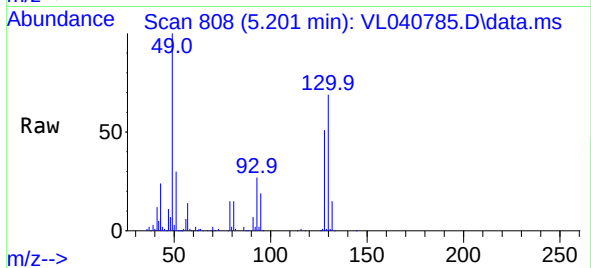
Tgt Ion: 43 Resp: 81917
Ion Ratio Lower Upper
43 100
45 12.1 8.2 12.4
61 9.1 8.2 12.2
70 8.6 5.8 8.6



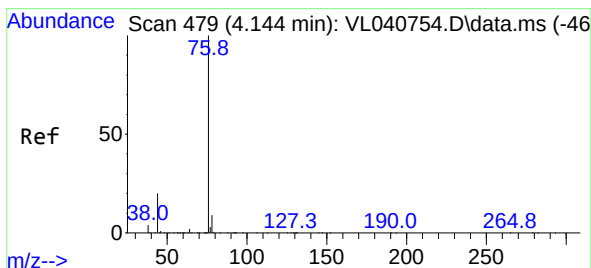
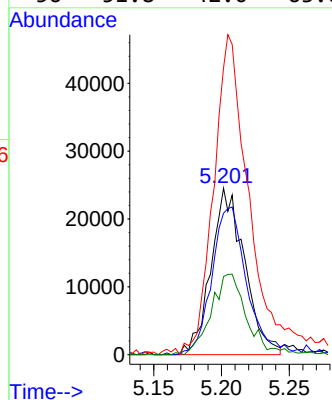
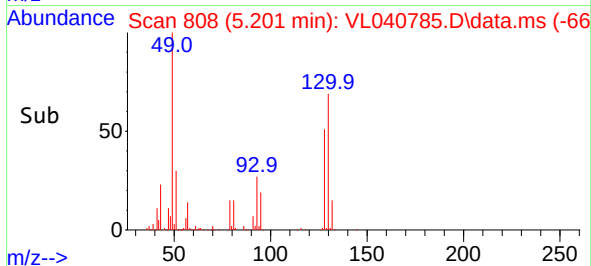


#26
Hexane
Concen: 0.462 ppbv
RT: 5.201 min Scan# 80
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

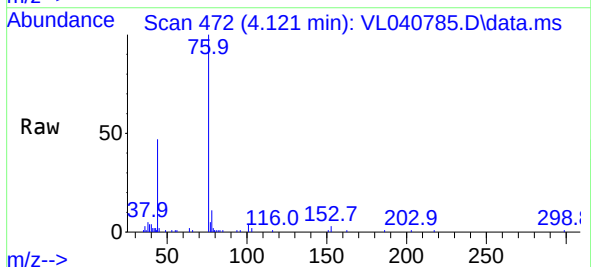
Instrument :
MSVOA_L
ClientSampleId :



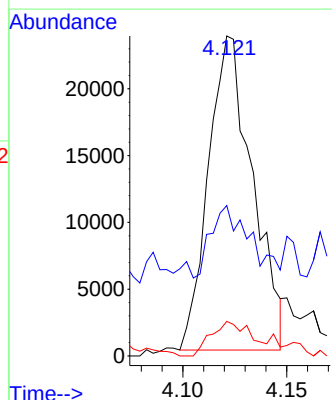
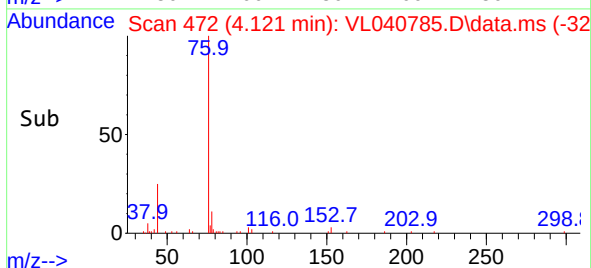
Tgt Ion: 57 Resp: 42249
Ion Ratio Lower Upper
57 100
41 93.9 71.4 107.2
43 216.6 182.3 273.5
56 51.8 42.0 63.0

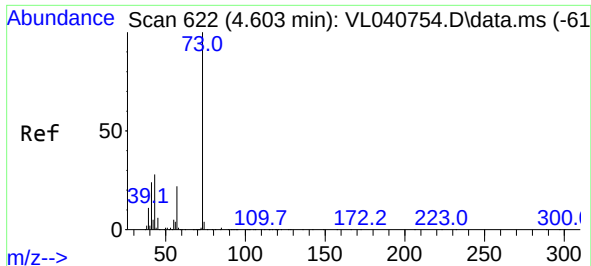


#27
Carbon Disulfide
Concen: 0.343 ppbv
RT: 4.121 min Scan# 472
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15



Tgt Ion: 76 Resp: 34669
Ion Ratio Lower Upper
76 100
44 54.8 16.6 25.0#
78 14.1 7.8 11.6#

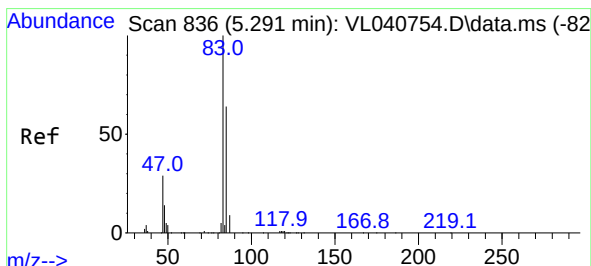
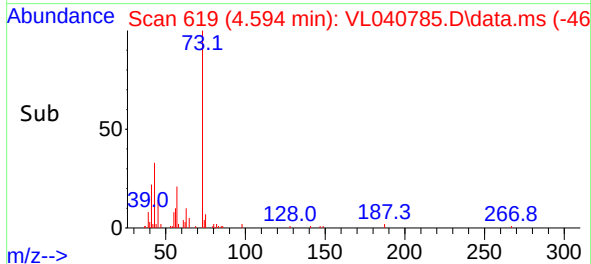
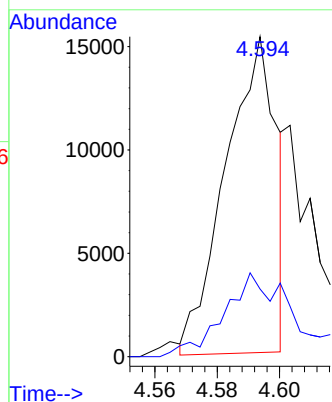
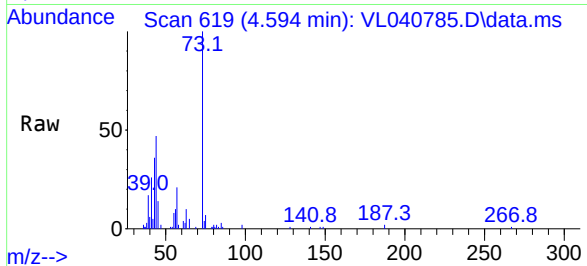




#28
Methyl tert-Butyl Ether
Concen: 0.243 ppbv
RT: 4.594 min Scan# 619
Delta R.T. -0.010 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

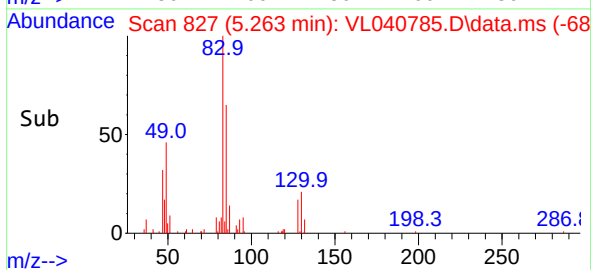
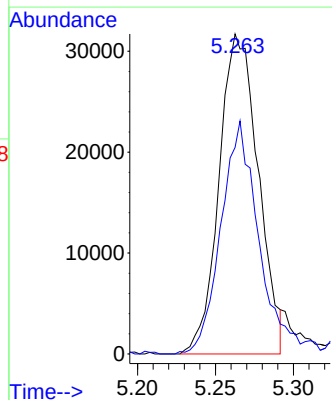
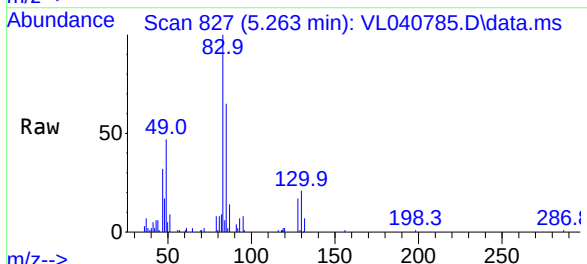
Instrument :
MSVOA_L
ClientSampleId :

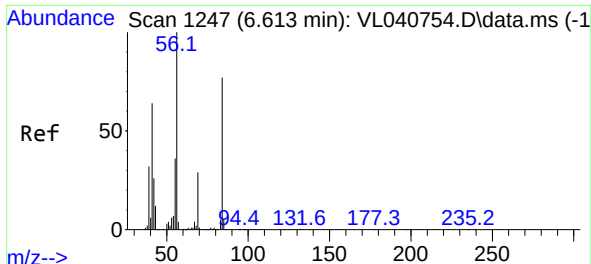
Tgt Ion: 73 Resp: 17288
Ion Ratio Lower Upper
73 100
57 40.3 18.9 28.3#



#29
Chloroform
Concen: 0.419 ppbv
RT: 5.263 min Scan# 827
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 83 Resp: 55441
Ion Ratio Lower Upper
83 100
85 63.8 51.3 76.9

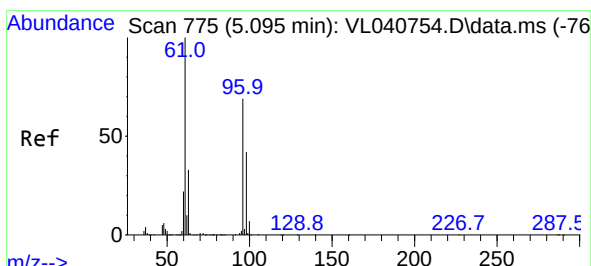
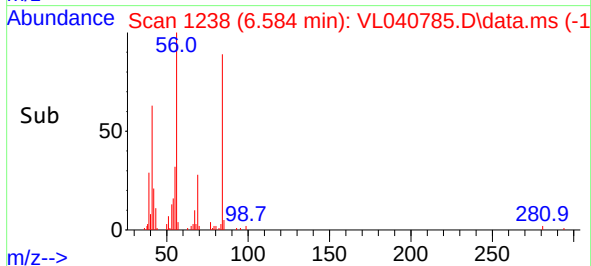
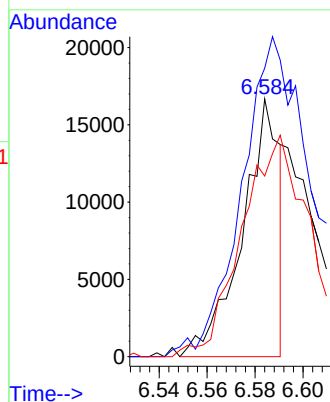
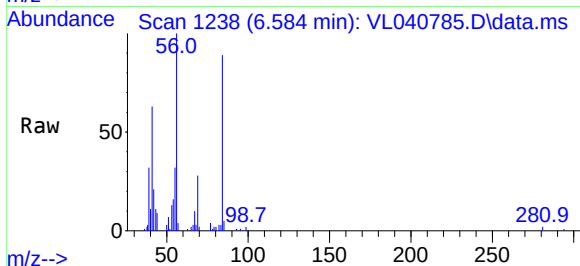




#30
Cyclohexane
Concen: 0.230 ppbv
RT: 6.584 min Scan# 11
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

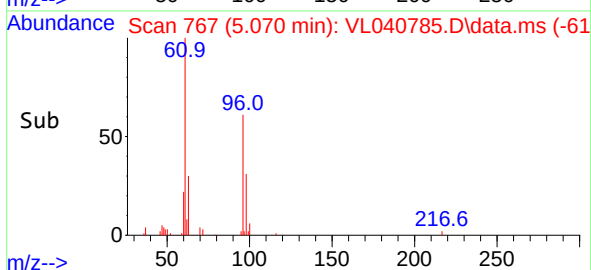
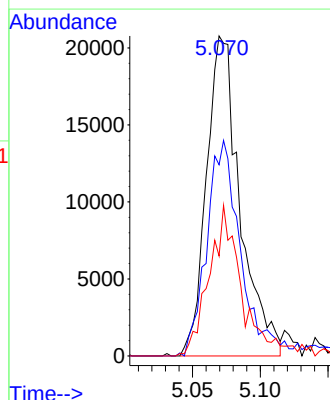
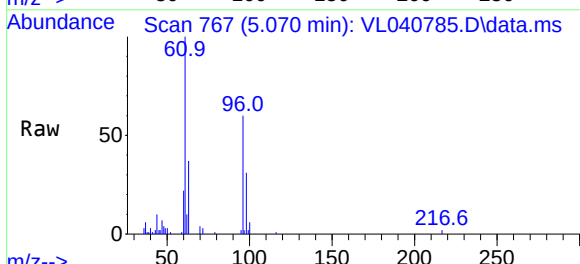
Instrument :
MSVOA_L
ClientSampleId :

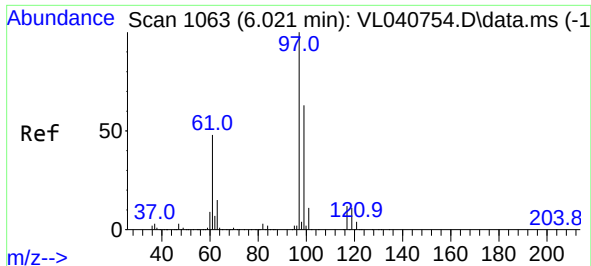
Tgt Ion: 84 Resp: 17913
Ion Ratio Lower Upper
84 100
56 230.5 110.3 165.5#
41 166.6 67.4 101.2#



#31
cis-1,2-Dichloroethene
Concen: 0.426 ppbv
RT: 5.070 min Scan# 767
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 61 Resp: 35897
Ion Ratio Lower Upper
61 100
96 60.7 55.1 82.7
98 30.5 33.5 50.3#





#32

1,1,1-Trichloroethane

Concen: 0.382 ppbv

RT: 5.989 min Scan# 1053

Delta R.T. -0.032 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

Instrument :

MSVOA_L

ClientSampleId :

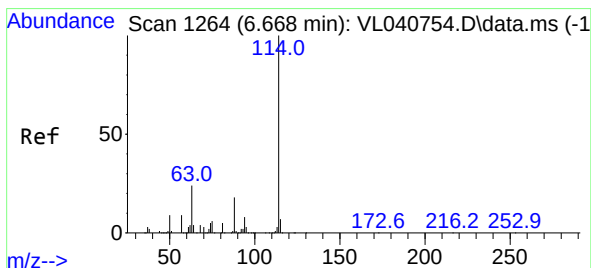
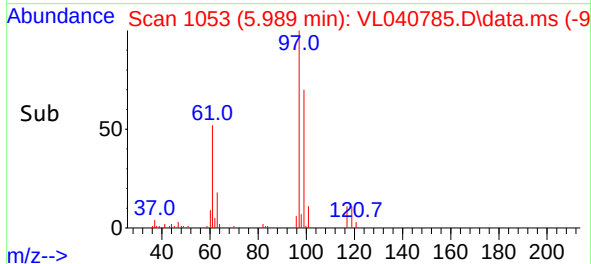
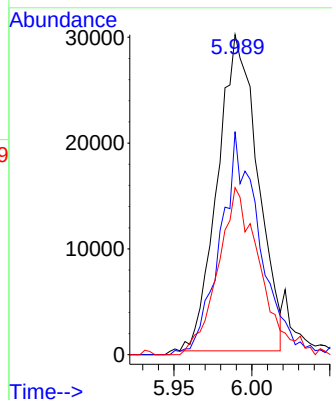
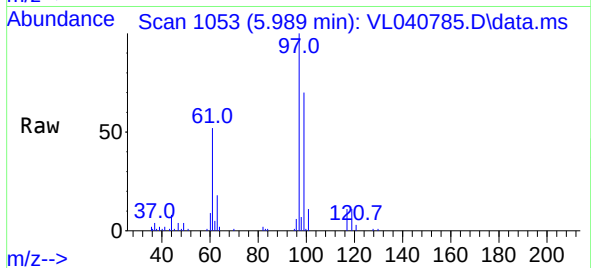
Tgt Ion: 97 Resp: 53798

Ion Ratio Lower Upper

97 100

99 69.2 51.8 77.6

61 55.7 38.6 58.0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. -0.026 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

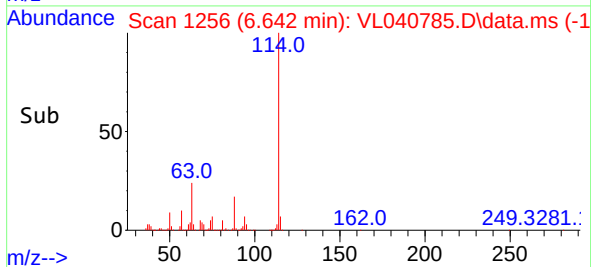
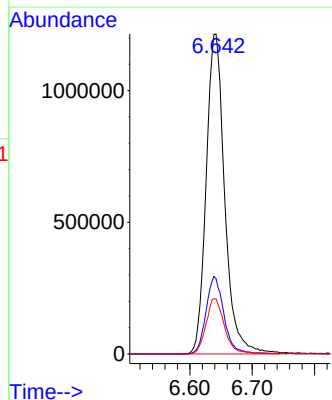
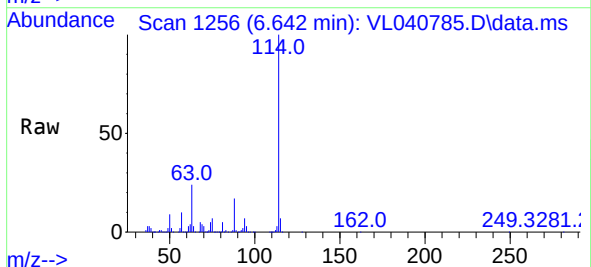
Tgt Ion: 114 Resp: 2508830

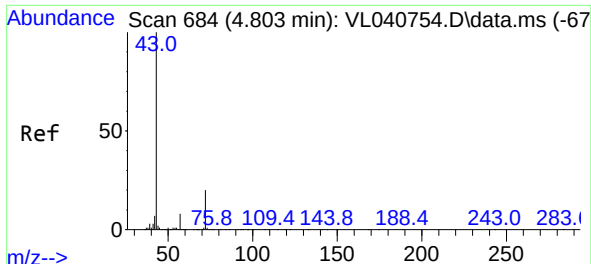
Ion Ratio Lower Upper

114 100

63 23.7 19.8 29.6

88 17.4 14.2 21.2

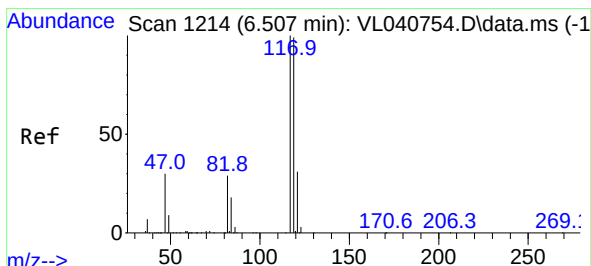
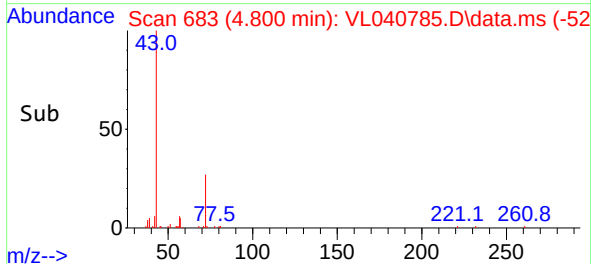
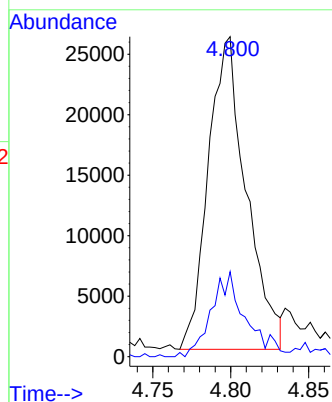
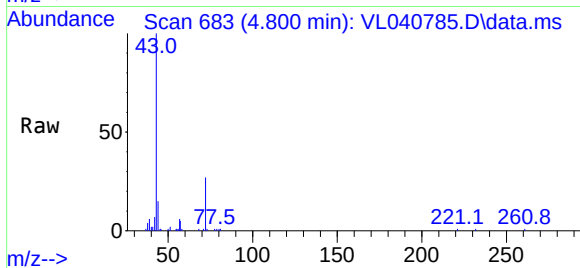




#34
2-Butanone
Concen: 0.386 ppbv
RT: 4.800 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

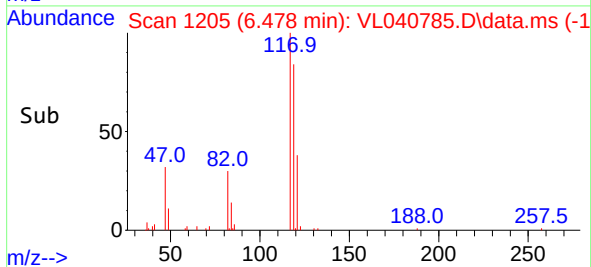
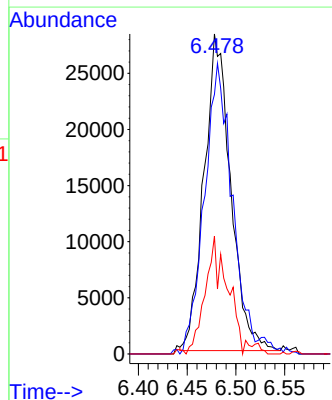
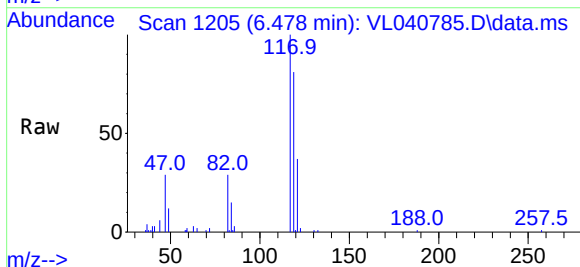
Instrument :
MSVOA_L
ClientSampleId :

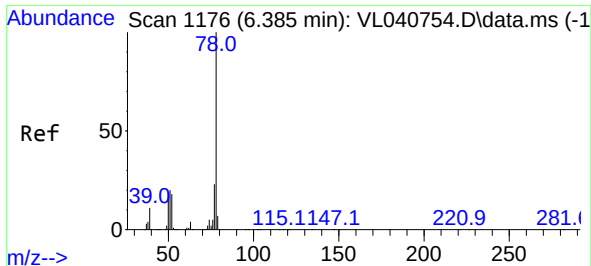
Tgt Ion: 43 Resp: 43844
Ion Ratio Lower Upper
43 100
72 28.1 16.8 25.2#



#35
Carbon Tetrachloride
Concen: 0.380 ppbv
RT: 6.478 min Scan# 1205
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

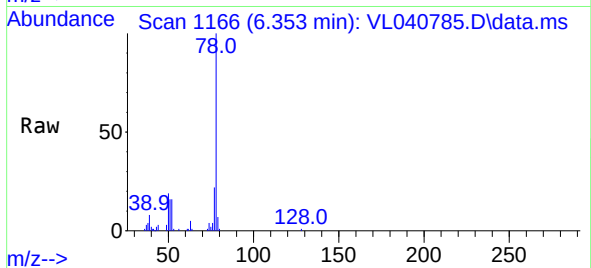
Tgt Ion: 117 Resp: 53497
Ion Ratio Lower Upper
117 100
119 82.0 79.4 119.0
121 37.2 25.0 37.4





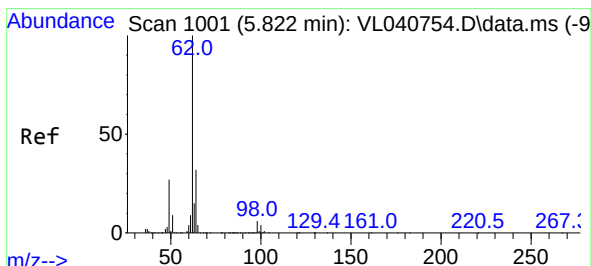
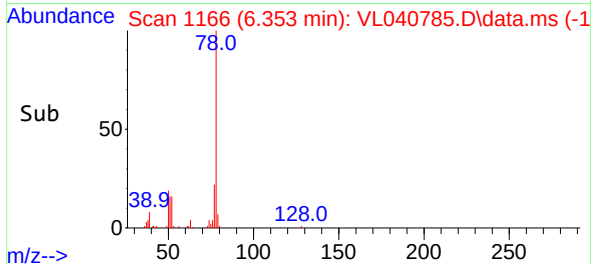
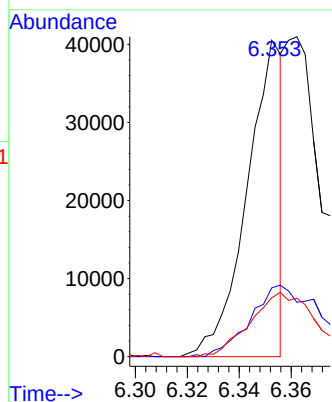
#36
Benzene
Concen: 0.198 ppbv
RT: 6.353 min Scan# 1166
Delta R.T. -0.032 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 78 Resp: 38119

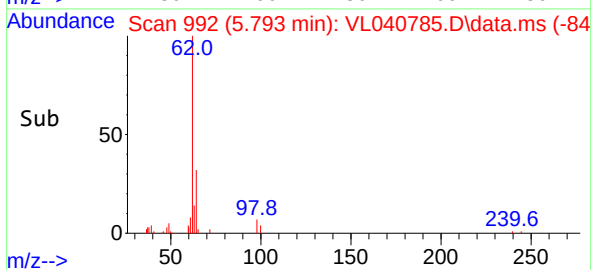
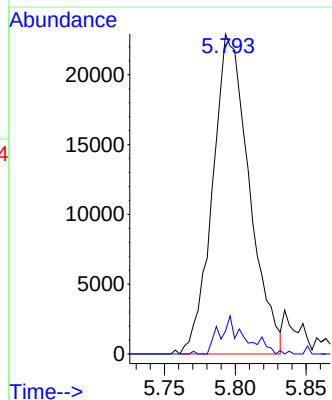
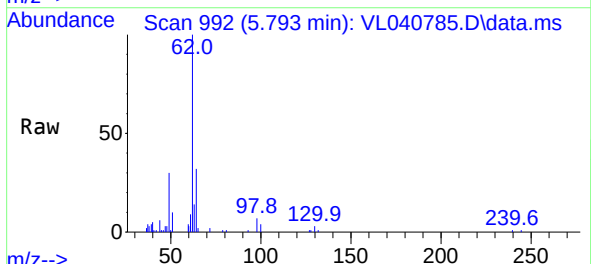
Ion	Ratio	Lower	Upper
78	100		
77	21.8	18.4	27.6
50	18.6	15.0	22.4

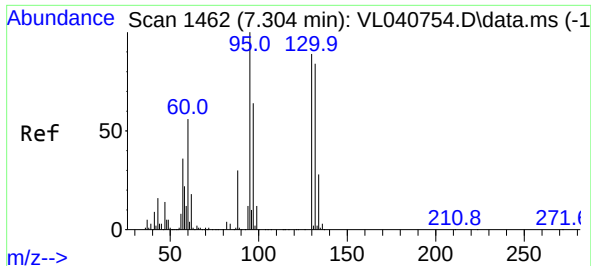


#37
1,2-Dichloroethane
Concen: 0.416 ppbv
RT: 5.793 min Scan# 992
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 62 Resp: 41077

Ion	Ratio	Lower	Upper
62	100		
98	8.3	5.4	8.0





#38

Trichloroethene

Concen: 0.233 ppbv

RT: 7.279 min Scan# 1462

Delta R.T. -0.026 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:130 Resp: 19907

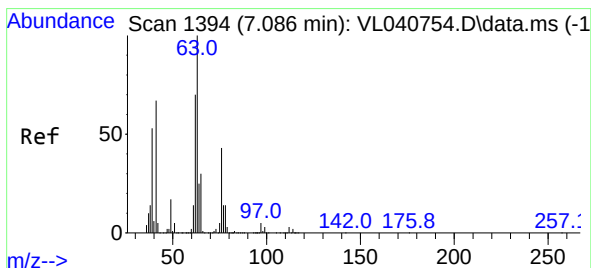
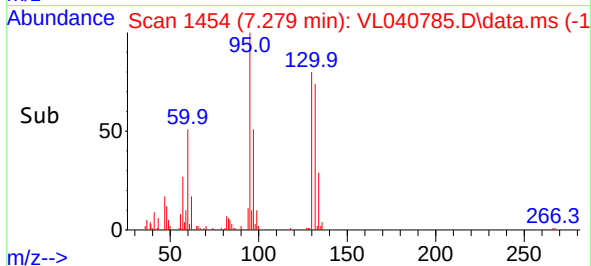
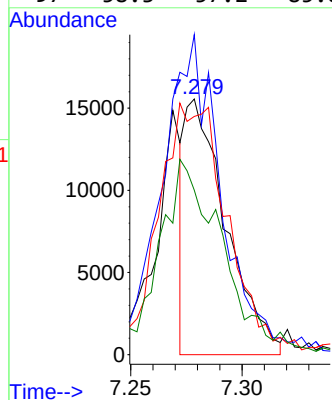
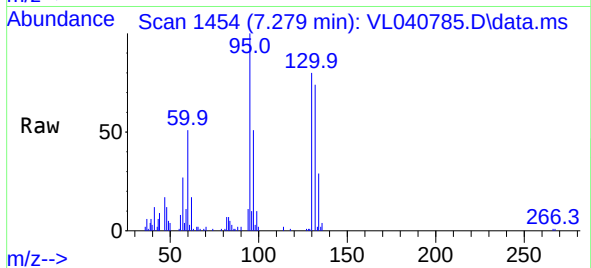
Ion Ratio Lower Upper

130 100

95 124.6 89.4 134.2

132 90.7 74.8 112.2

97 58.3 57.2 85.8



#39

1,2-Dichloropropane

Concen: 0.370 ppbv

RT: 7.053 min Scan# 1384

Delta R.T. -0.032 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

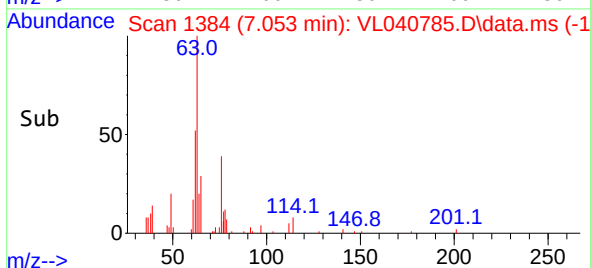
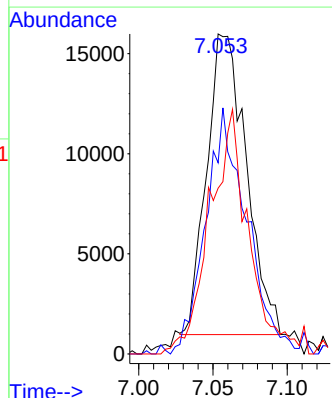
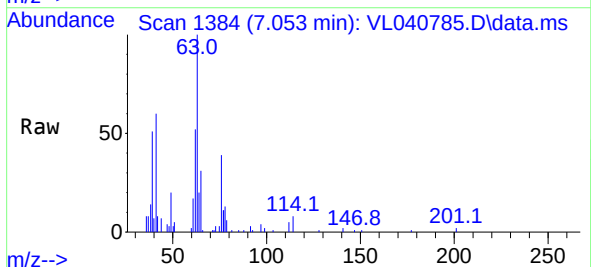
Tgt Ion: 63 Resp: 27867

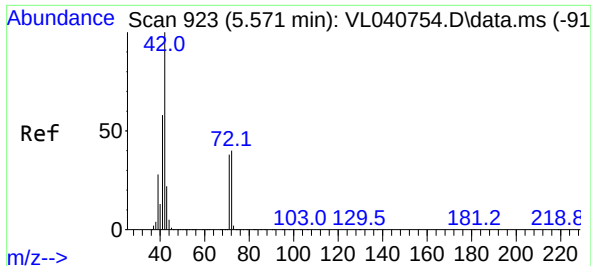
Ion Ratio Lower Upper

63 100

41 60.4 53.7 80.5

62 48.6 55.7 83.5#

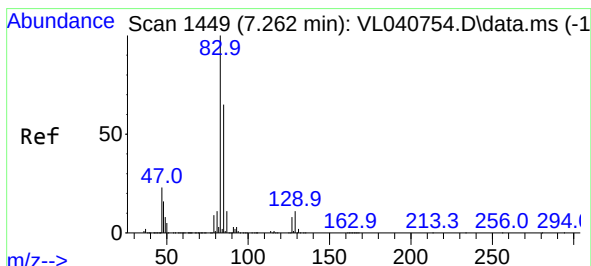
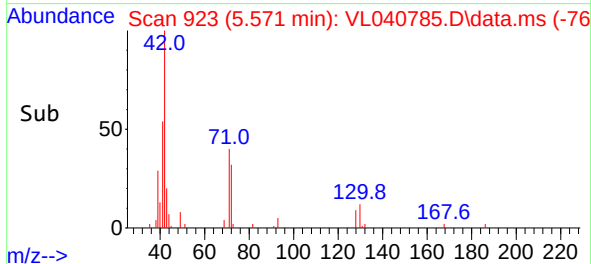
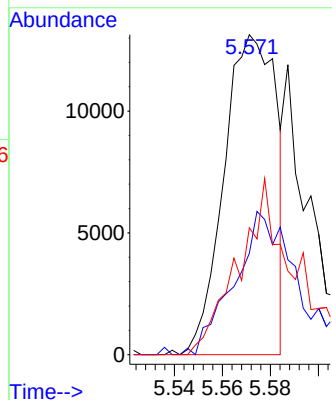
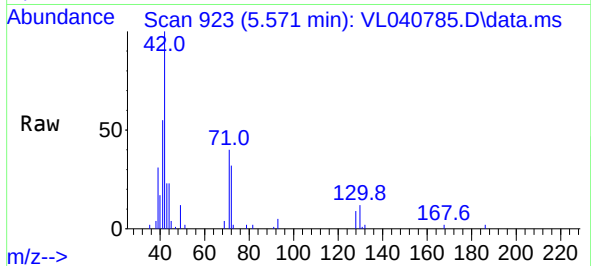




#41
Tetrahydrofuran
Concen: 0.252 ppbv
RT: 5.571 min Scan# 91
Delta R.T. 0.000 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

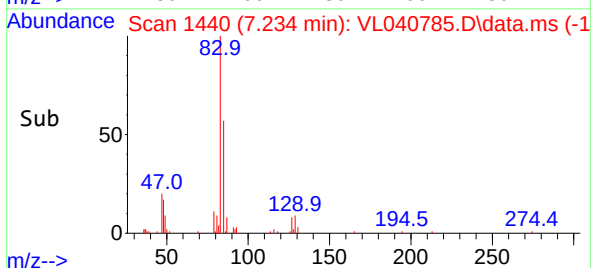
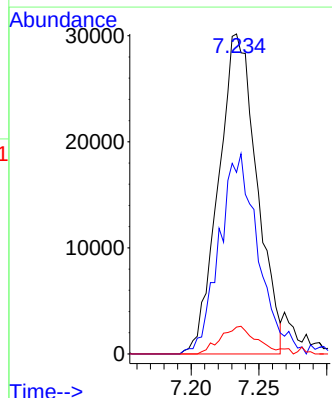
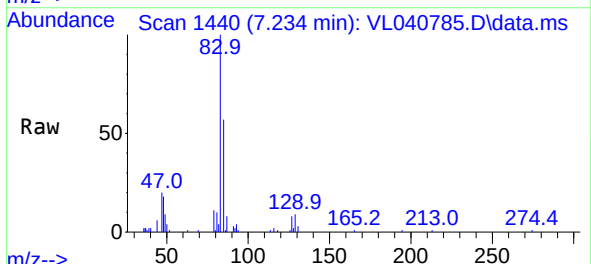
Instrument :
MSVOA_L
ClientSampleId :

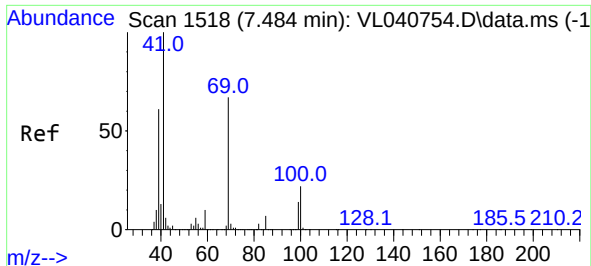
Tgt Ion: 42 Resp: 19846
Ion Ratio Lower Upper
42 100
72 61.4 31.1 46.7#
71 65.6 29.7 44.5#



#42
Bromodichloromethane
Concen: 0.401 ppbv
RT: 7.234 min Scan# 1440
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 83 Resp: 59439
Ion Ratio Lower Upper
83 100
85 56.7 52.1 78.1
127 8.4 6.7 10.1

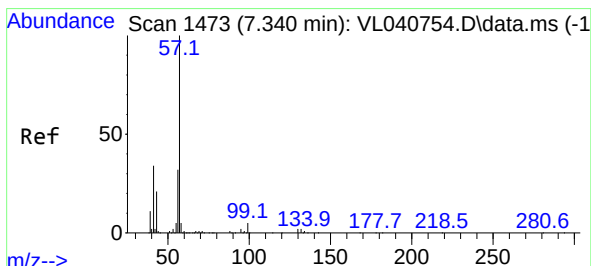
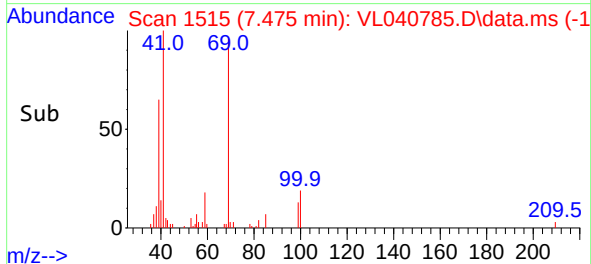
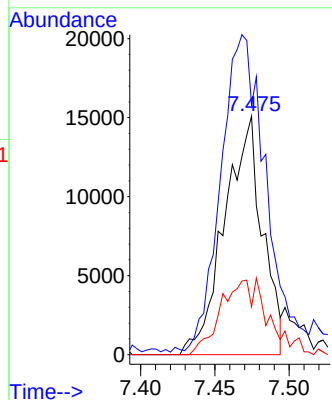
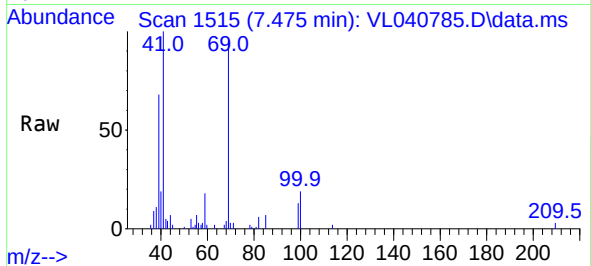




#43
Methyl Methacrylate
Concen: 0.347 ppbv
RT: 7.475 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

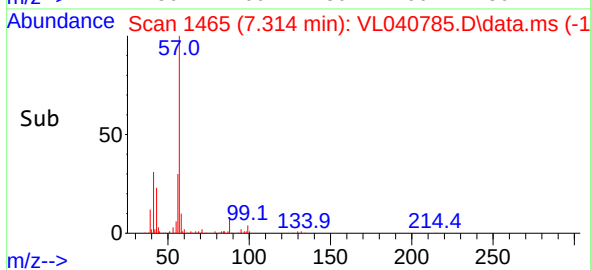
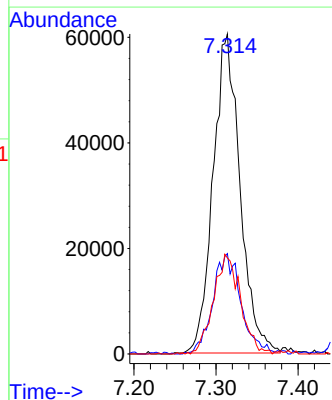
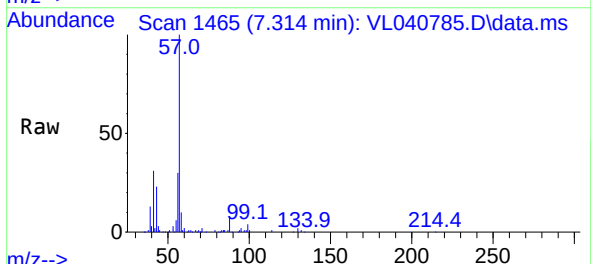
Instrument :
MSVOA_L
ClientSampleId :

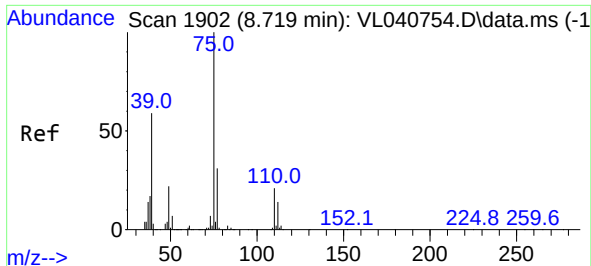
Tgt Ion: 69 Resp: 26816
Ion Ratio Lower Upper
69 100
41 167.3 120.6 181.0
100 39.5 27.1 40.7



#44
2,2,4-Trimethylpentane
Concen: 0.423 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 57 Resp: 137968
Ion Ratio Lower Upper
57 100
41 33.4 27.4 41.0
56 31.9 25.0 37.6

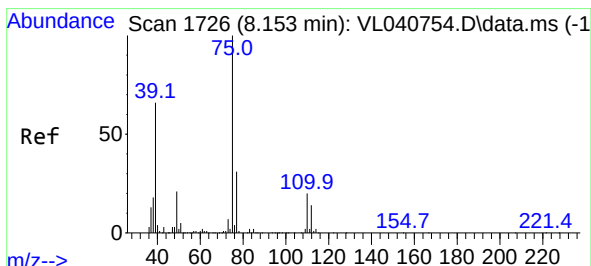
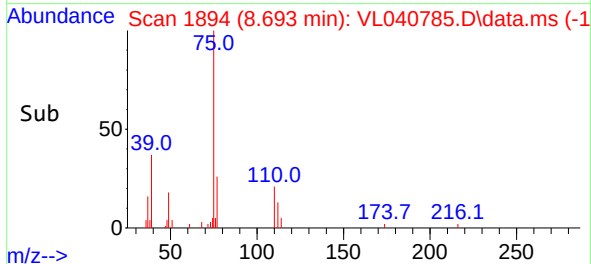
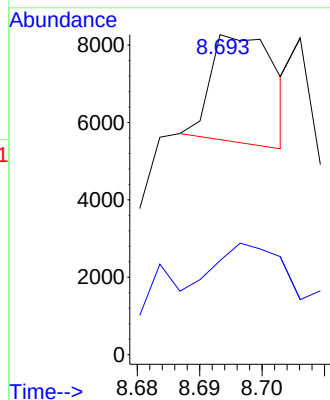
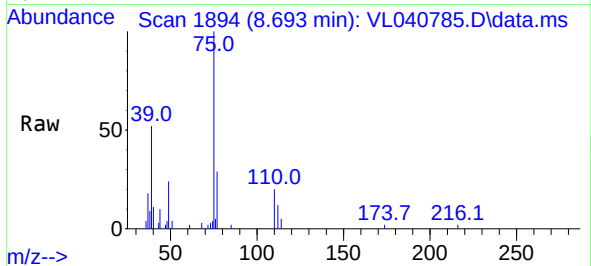




#45
t-1,3-Dichloropropene
Concen: 0.032 ppbv
RT: 8.693 min Scan# 11
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

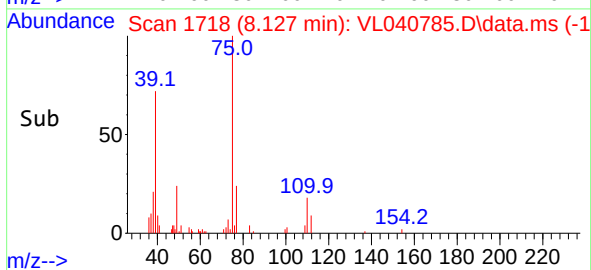
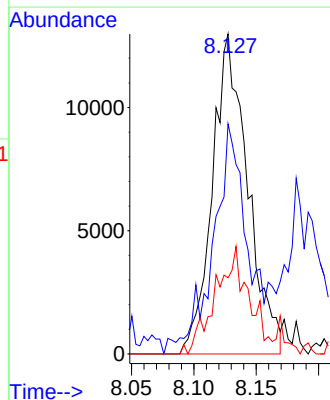
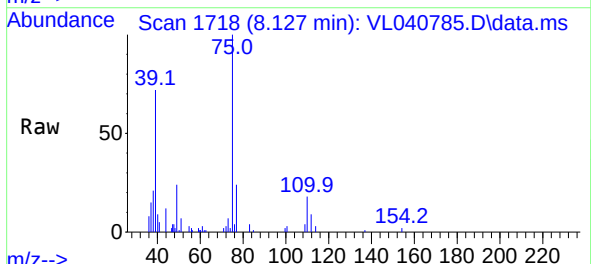
Instrument :
MSVOA_L
ClientSampleId :

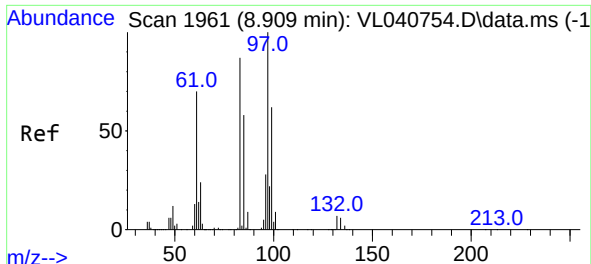
Tgt Ion: 75 Resp: 1959
Ion Ratio Lower Upper
75 100
77 29.4 24.9 37.3



#46
cis-1,3-Dichloropropene
Concen: 0.340 ppbv
RT: 8.127 min Scan# 1718
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 75 Resp: 25597
Ion Ratio Lower Upper
75 100
39 66.9 52.4 78.6
77 23.8 25.1 37.7#



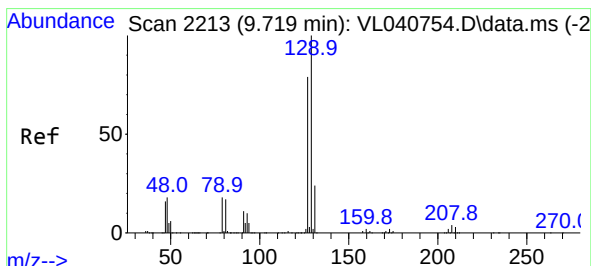
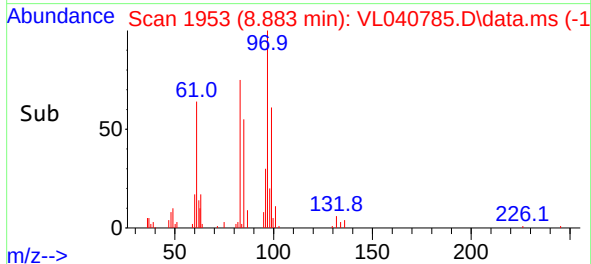
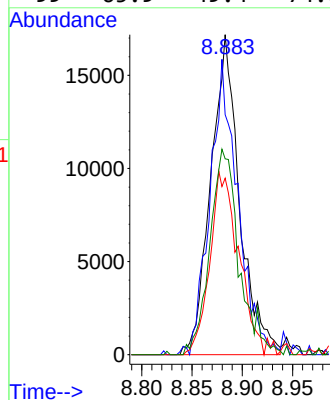
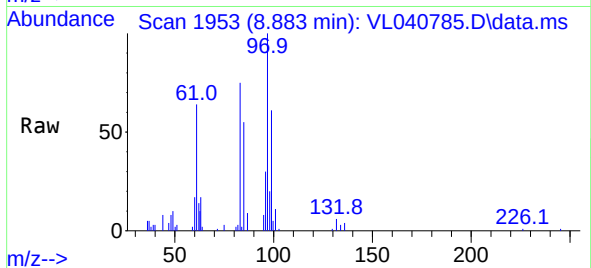


#47
1,1,2-Trichloroethane
Concen: 0.432 ppbv
RT: 8.883 min Scan# 1961
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 97 Resp: 34248

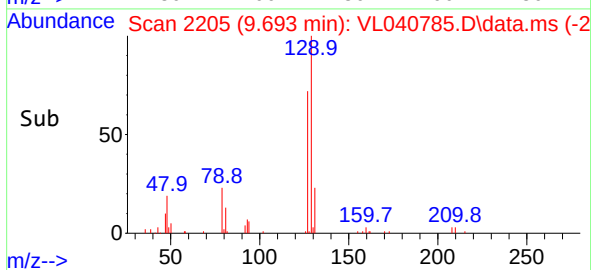
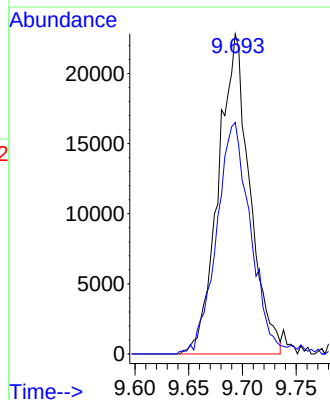
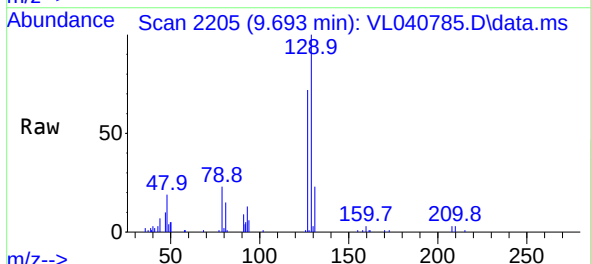
Ion	Ratio	Lower	Upper
97	100		
83	74.1	69.5	104.3
85	55.1	46.6	69.8
99	65.9	49.4	74.0

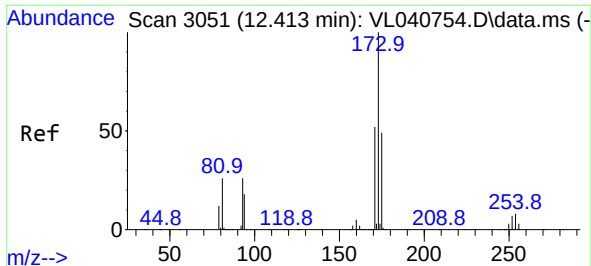


#48
Dibromochloromethane
Concen: 0.349 ppbv
RT: 9.693 min Scan# 2205
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 129 Resp: 46316

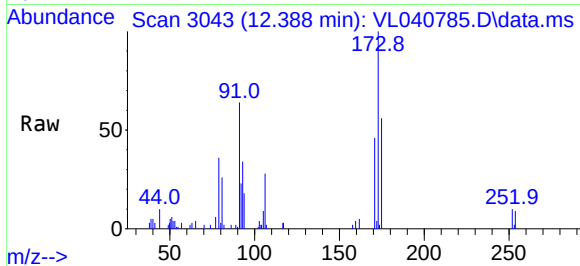
Ion	Ratio	Lower	Upper
129	100		
127	80.0	39.1	117.3



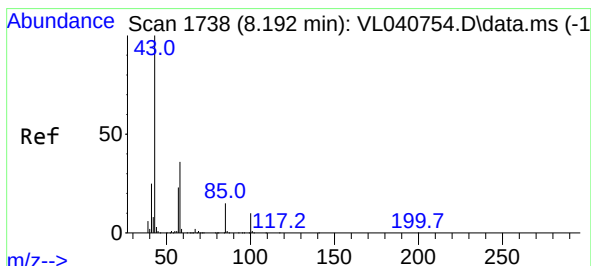
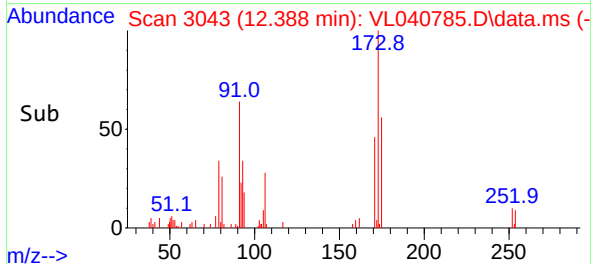
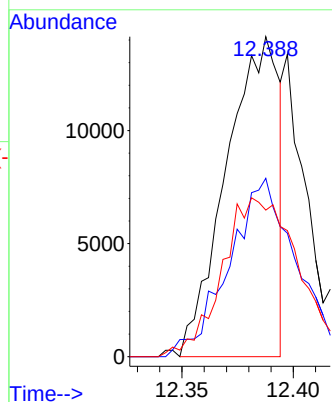


#49
Bromoform
Concen: 0.216 ppbv
RT: 12.388 min Scan# 3051
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :

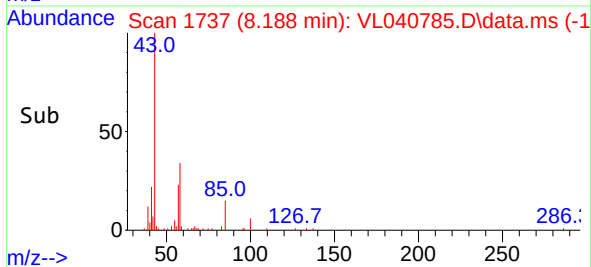
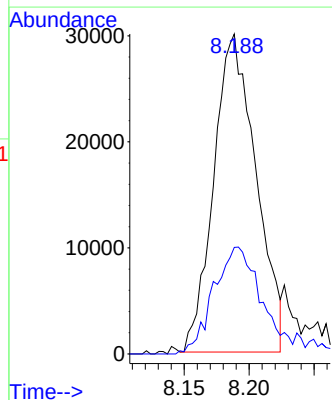
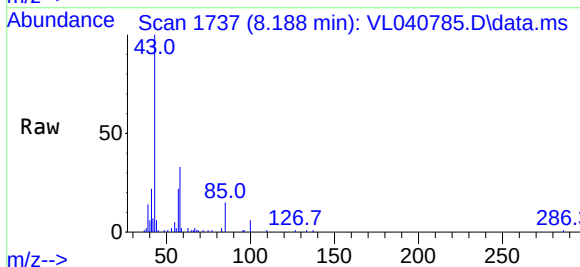


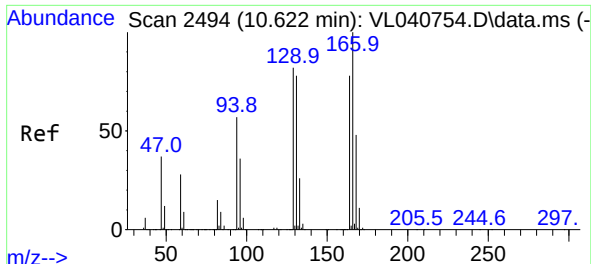
Tgt Ion:173 Resp: 23258
Ion Ratio Lower Upper
173 100
175 75.0 39.2 58.8#
171 75.0 42.0 63.0#



#50
4-Methyl-2-Pentanone
Concen: 0.350 ppbv
RT: 8.188 min Scan# 1737
Delta R.T. -0.003 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

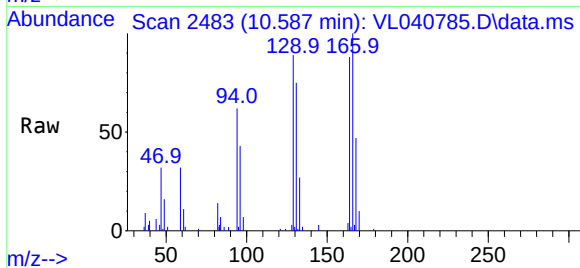
Tgt Ion: 43 Resp: 67945
Ion Ratio Lower Upper
43 100
58 41.4 28.8 43.2





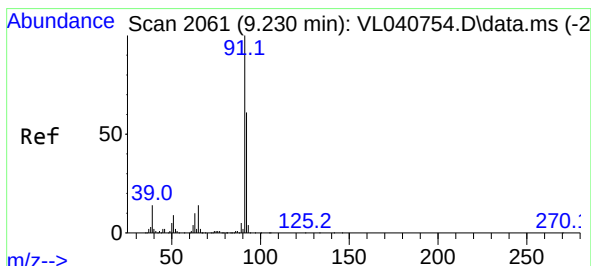
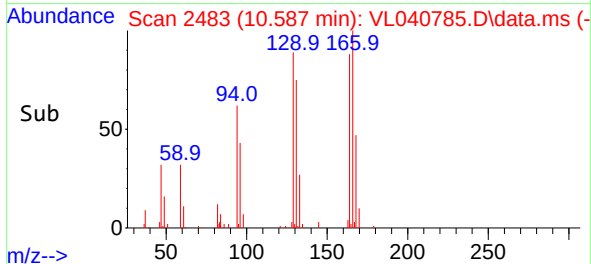
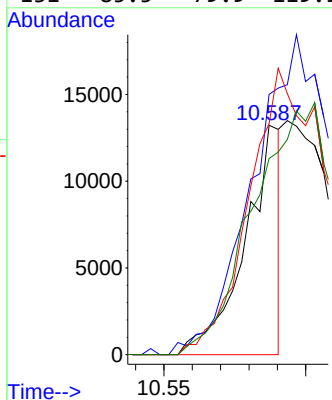
#52
Tetrachloroethene
Concen: 0.148 ppbv
RT: 10.587 min Scan# 2494
Delta R.T. -0.035 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:164 Resp: 11571

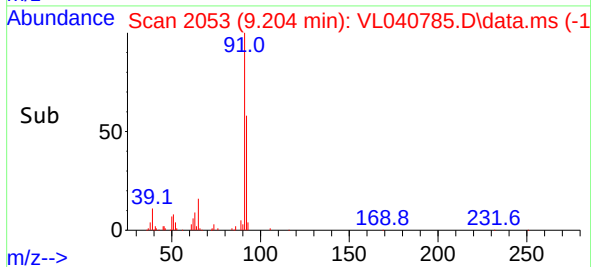
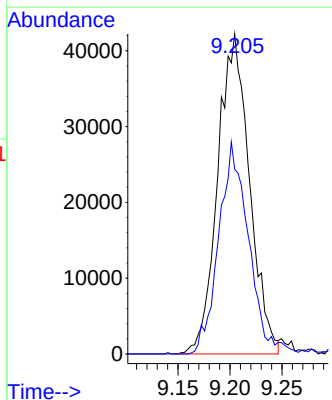
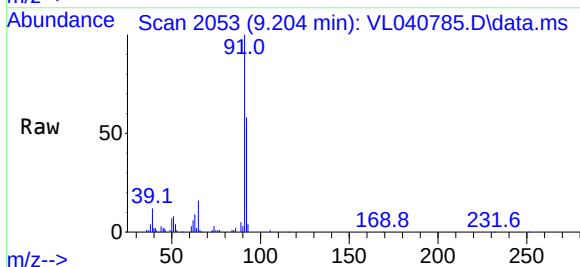
Ion	Ratio	Lower	Upper
164	100		
166	108.2	102.4	153.6
129	100.7	84.2	126.4
131	85.5	79.9	119.9

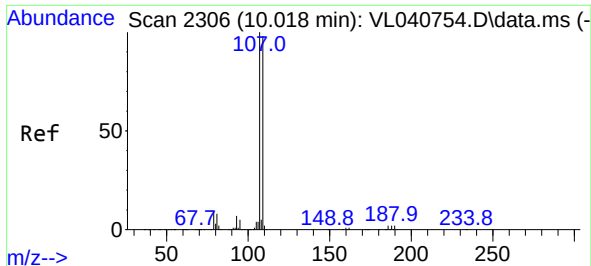


#53
Toluene
Concen: 0.391 ppbv
RT: 9.204 min Scan# 2053
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 91 Resp: 89845

Ion	Ratio	Lower	Upper
91	100		
92	62.8	50.2	75.2





#54

1,2-Dibromoethane

Concen: 0.226 ppbv

RT: 9.989 min Scan# 21

Delta R.T. -0.029 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

Instrument :

MSVOA_L

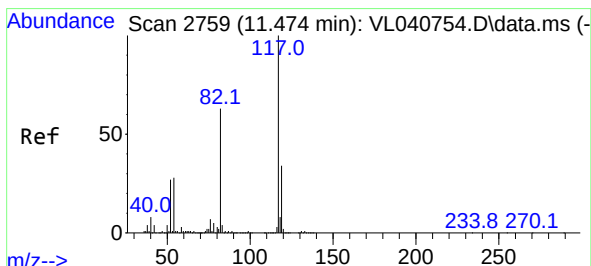
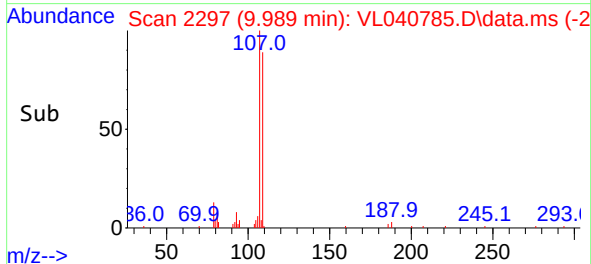
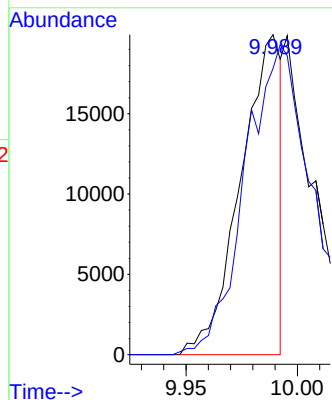
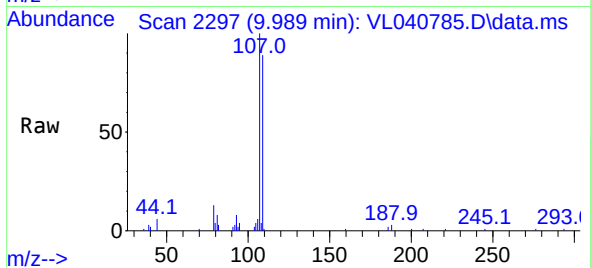
ClientSampleId :

Tgt Ion:107 Resp: 25122

Ion Ratio Lower Upper

107 100

109 89.4 78.2 117.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.446 min Scan# 2750

Delta R.T. -0.029 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

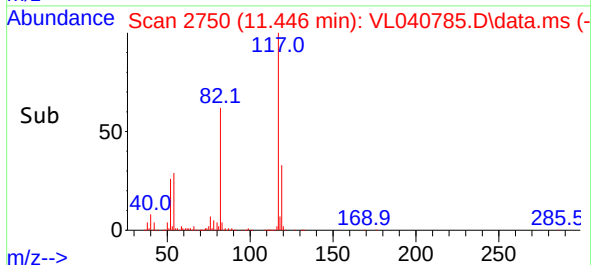
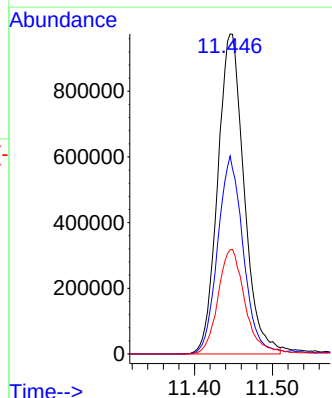
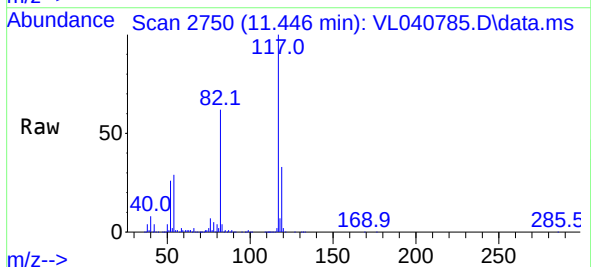
Tgt Ion:117 Resp: 2288610

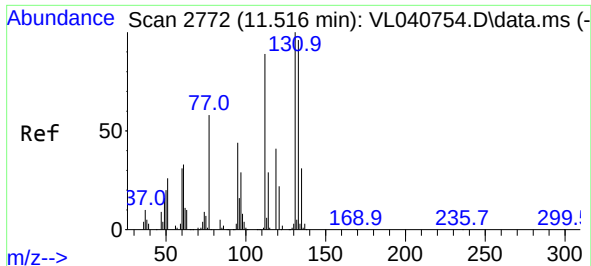
Ion Ratio Lower Upper

117 100

82 61.6 46.6 70.0

119 34.2 26.0 39.0

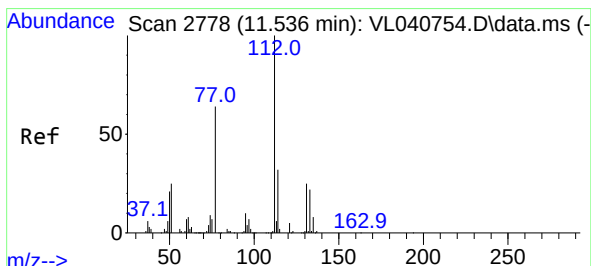
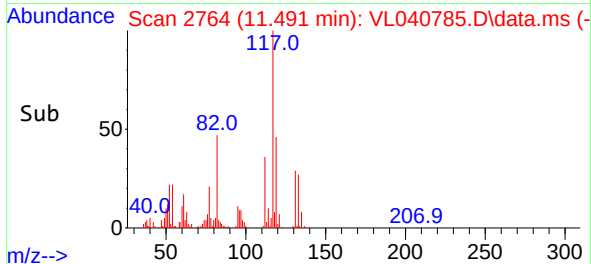
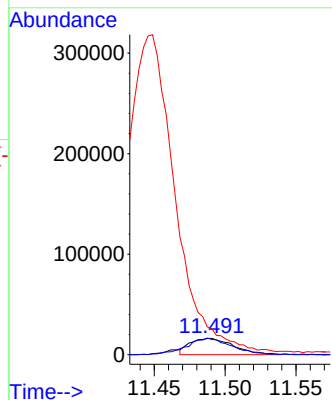
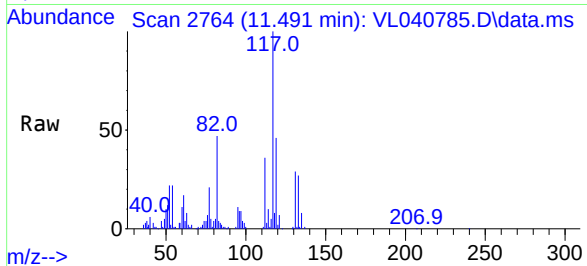




#56
1,1,1,2-Tetrachloroethane
Concen: 0.372 ppbv
RT: 11.491 min Scan# 211
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

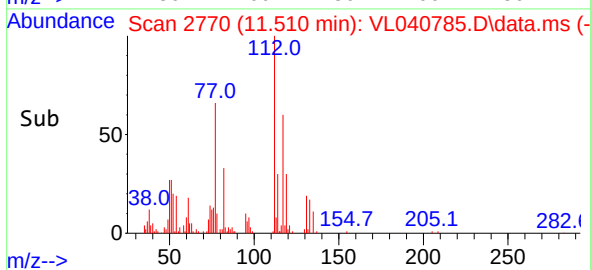
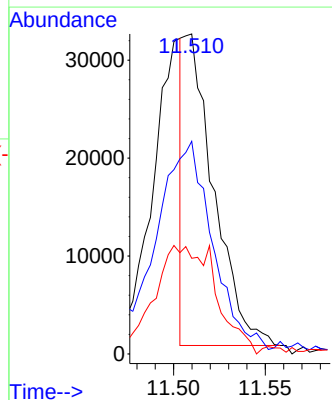
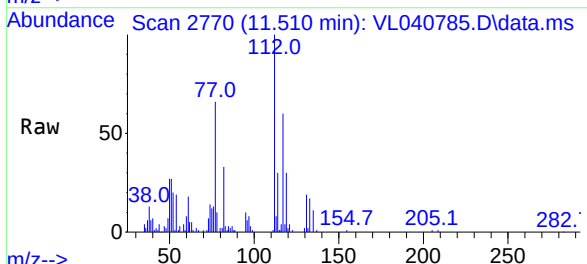
Instrument :
MSVOA_L
ClientSampleId :

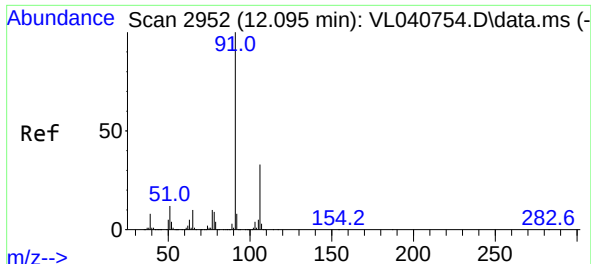
Tgt Ion:131 Resp: 34778
Ion Ratio Lower Upper
131 100
133 104.1 75.0 112.6
119 0.0 45.4 68.0#



#57
Chlorobenzene
Concen: 0.220 ppbv
RT: 11.510 min Scan# 2770
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:112 Resp: 36108
Ion Ratio Lower Upper
112 100
77 64.2 51.9 77.9
114 29.9 28.6 35.0





#58

Ethyl Benzene

Concen: 0.195 ppbv

RT: 12.063 min Scan# 2952

Delta R.T. -0.032 min

Lab File: VL040785.D

Acq: 23 Oct 2023 19:15

Instrument :

MSVOA_L

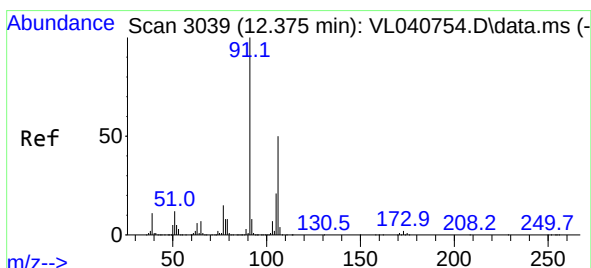
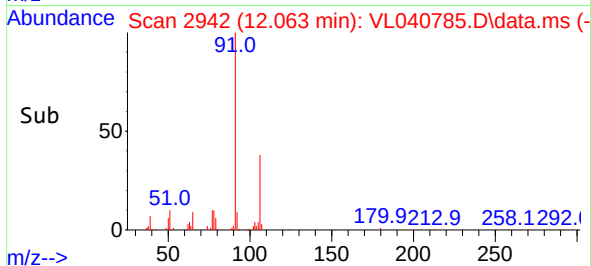
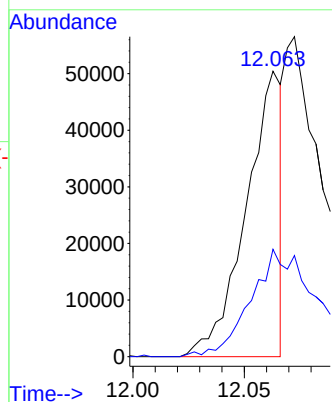
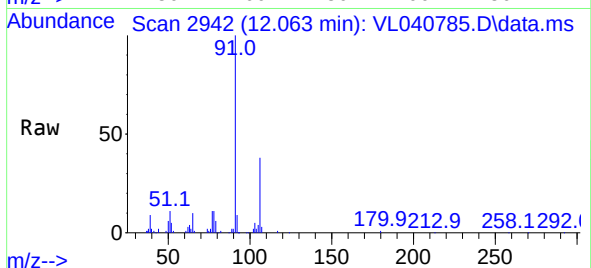
ClientSampleId :

Tgt Ion: 91 Resp: 56086

Ion Ratio Lower Upper

91 100

106 37.1 26.7 40.1



#59

m/p-Xylene

Concen: 0.154 ppbv

RT: 12.346 min Scan# 3030

Delta R.T. -0.029 min

Lab File: VL040785.D

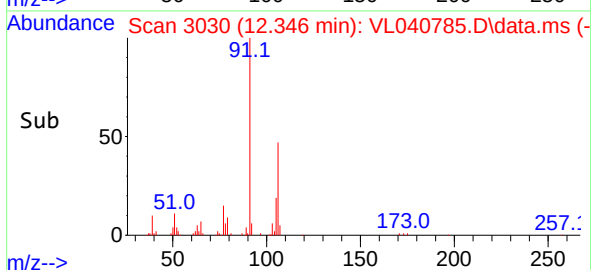
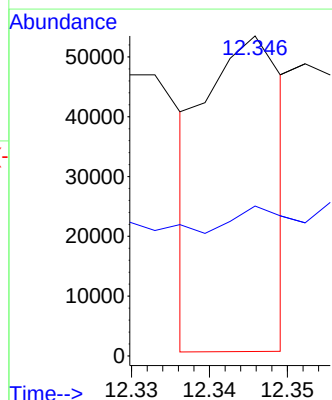
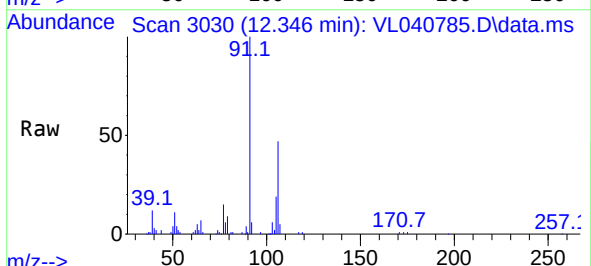
Acq: 23 Oct 2023 19:15

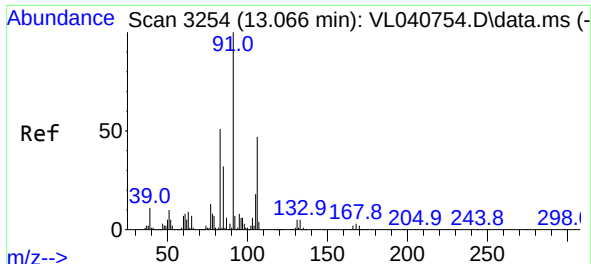
Tgt Ion: 91 Resp: 36623

Ion Ratio Lower Upper

91 100

106 0.0 37.7 56.5#

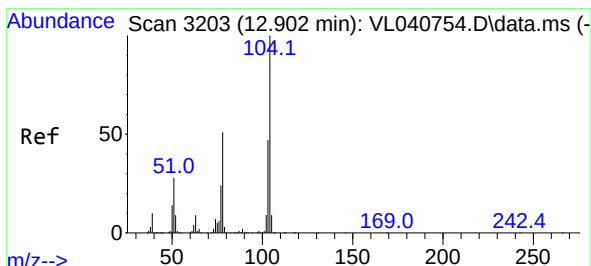
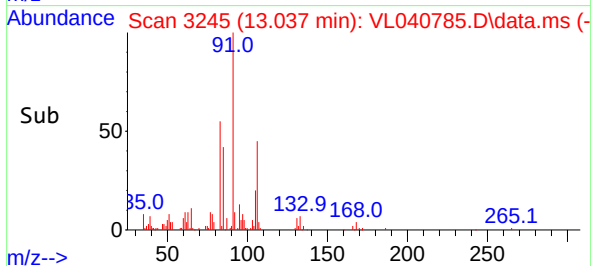
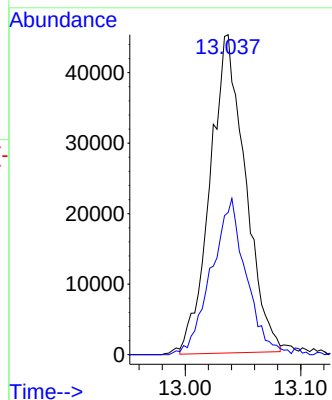
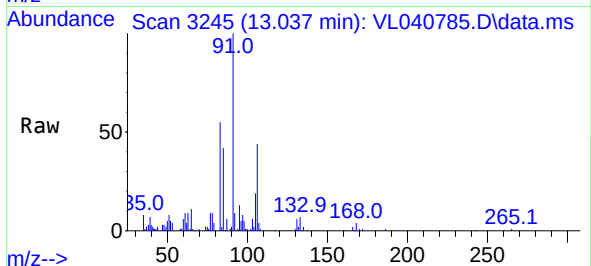




#60
o-Xylene
Concen: 0.425 ppbv
RT: 13.037 min Scan# 3193
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

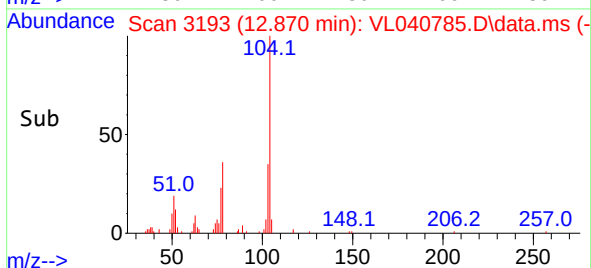
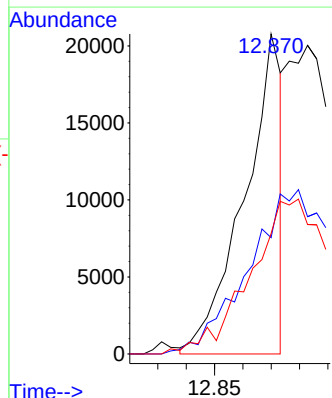
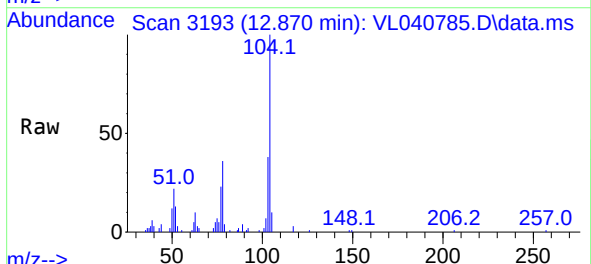
Instrument :
MSVOA_L
ClientSampleId :

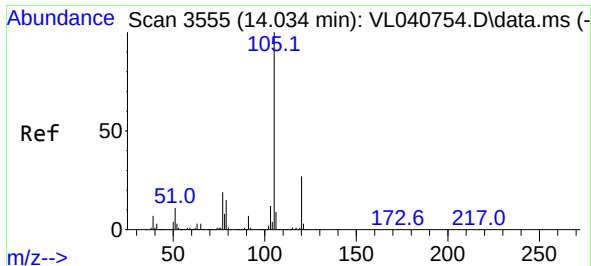
Tgt Ion: 91 Resp: 95944
Ion Ratio Lower Upper
91 100
106 48.8 23.5 70.5



#61
Styrene
Concen: 0.152 ppbv
RT: 12.870 min Scan# 3193
Delta R.T. -0.032 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 104 Resp: 19059
Ion Ratio Lower Upper
104 100
78 0.0 39.8 59.6#
103 0.0 37.5 56.3#

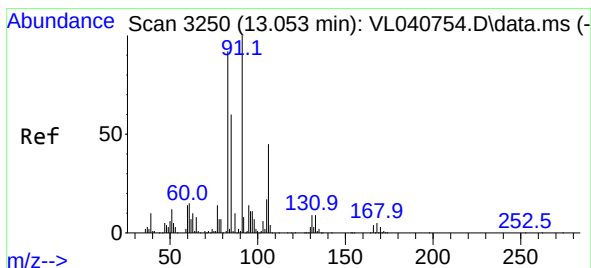
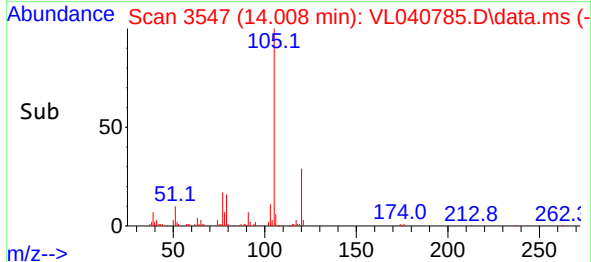
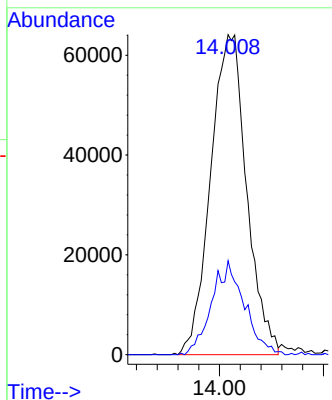
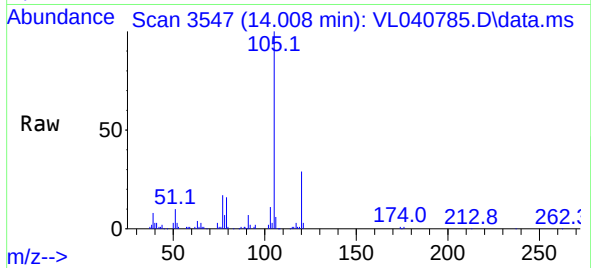




#62
Isopropylbenzene
Concen: 0.444 ppbv
RT: 14.008 min Scan# 31
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

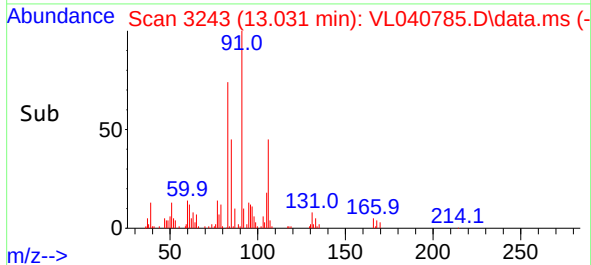
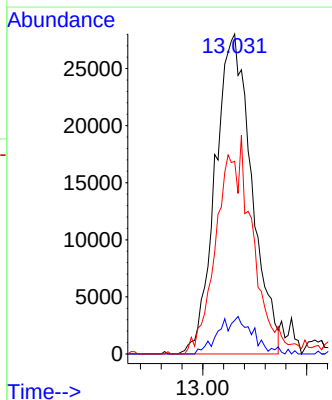
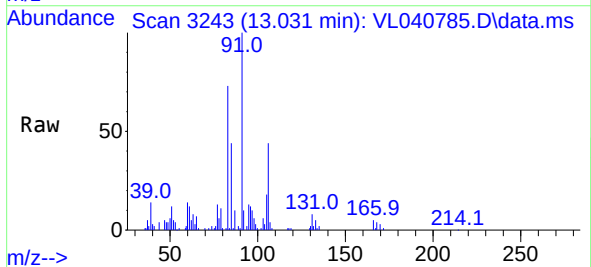
Instrument :
MSVOA_L
ClientSampleId :

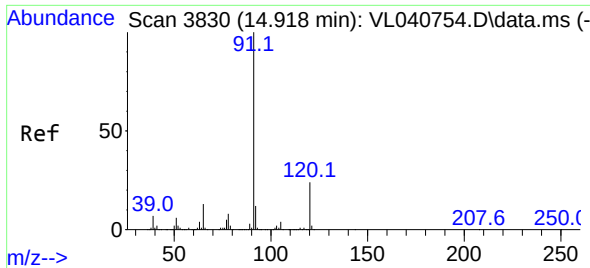
Tgt Ion:105 Resp: 154287
Ion Ratio Lower Upper
105 100
120 26.7 21.5 32.3



#63
1,1,2,2-Tetrachloroethane
Concen: 0.402 ppbv
RT: 13.031 min Scan# 3243
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 83 Resp: 68150
Ion Ratio Lower Upper
83 100
131 11.1 4.9 14.6
85 67.1 32.9 98.7

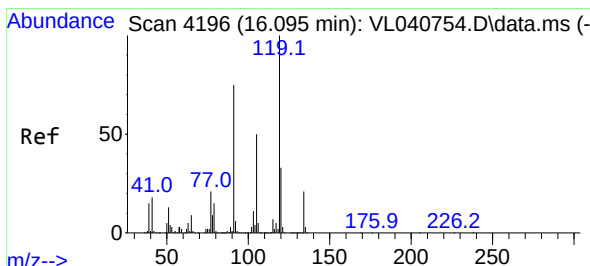
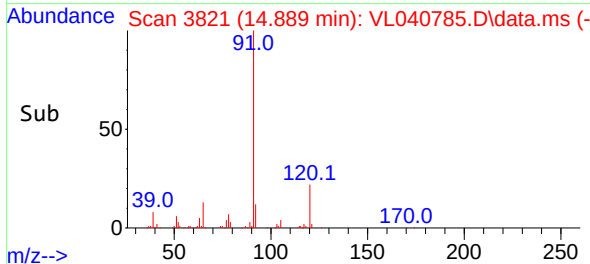
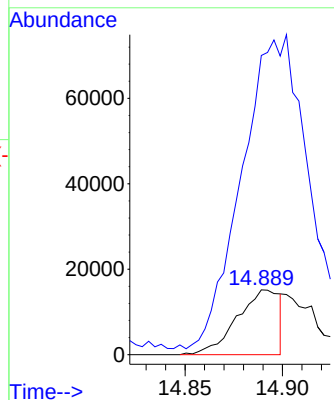
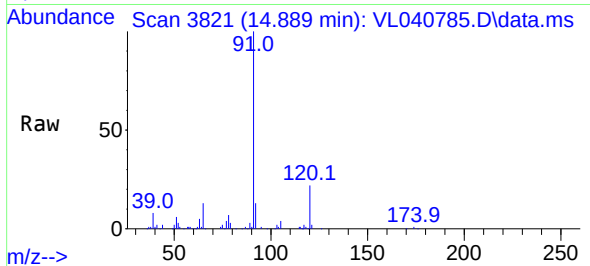




#64
n-propylbenzene
Concen: 0.249 ppbv
RT: 14.889 min Scan# 3821
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

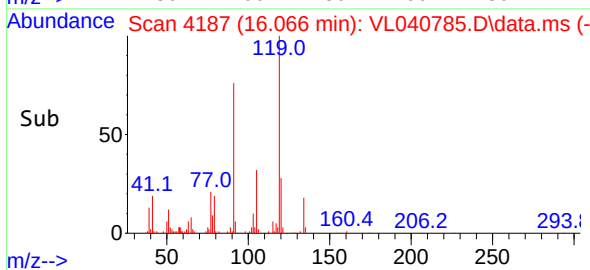
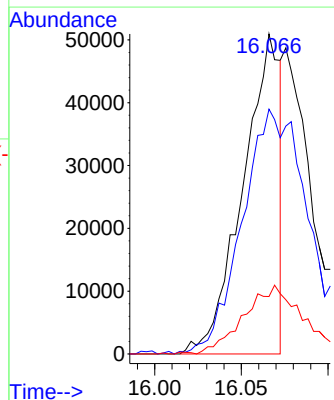
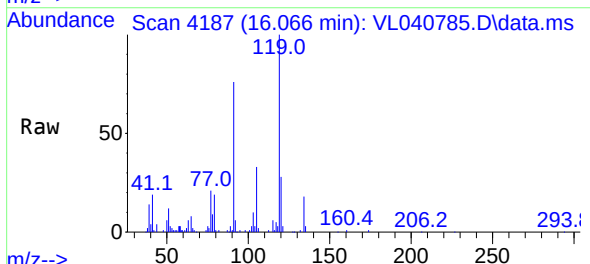
Instrument :
MSVOA_L
ClientSampleId :

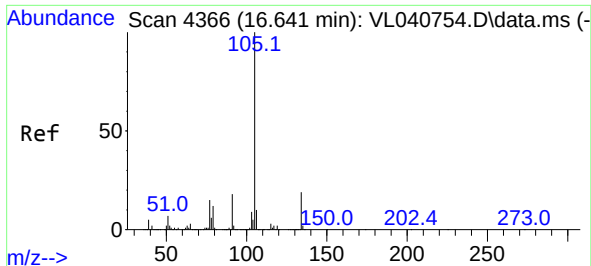
Tgt Ion:120 Resp: 23214
Ion Ratio Lower Upper
120 100
91 496.9 345.9 518.9



#65
tert-Butylbenzene
Concen: 0.243 ppbv
RT: 16.066 min Scan# 4187
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:119 Resp: 76085
Ion Ratio Lower Upper
119 100
91 145.5 62.2 93.2#
134 34.7 16.1 24.1#

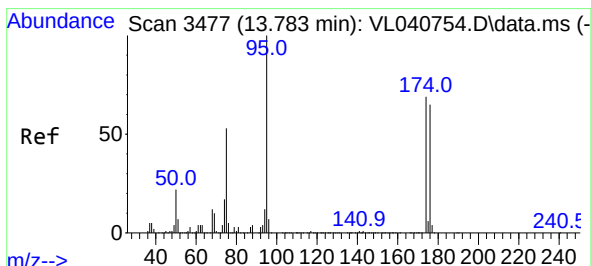
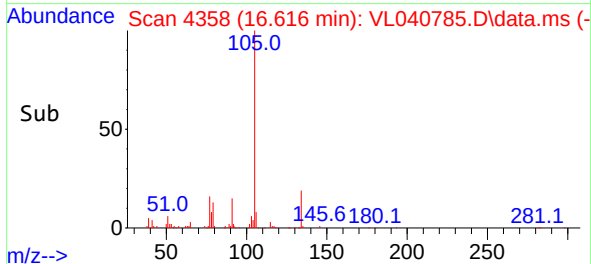
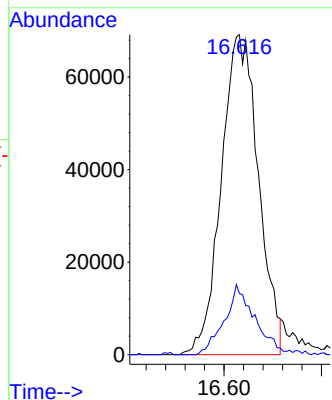
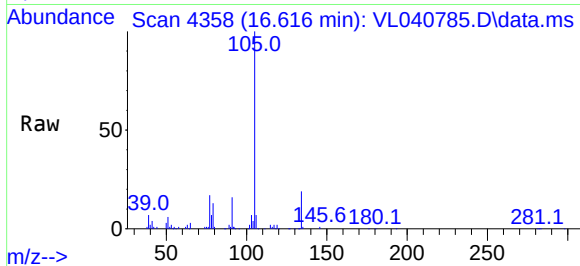




#67
 sec-Butylbenzene
 Concen: 0.427 ppbv
 RT: 16.616 min Scan# 41
 Delta R.T. -0.026 min
 Lab File: VL040785.D
 Acq: 23 Oct 2023 19:15

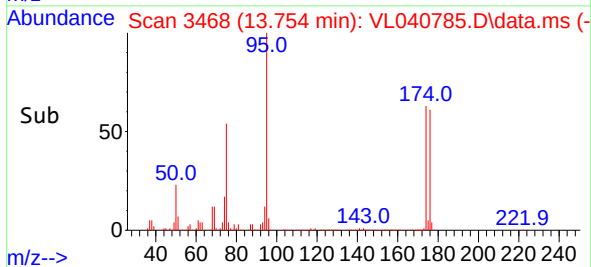
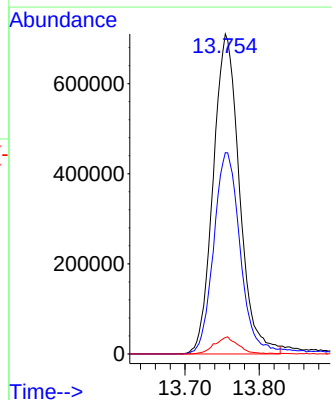
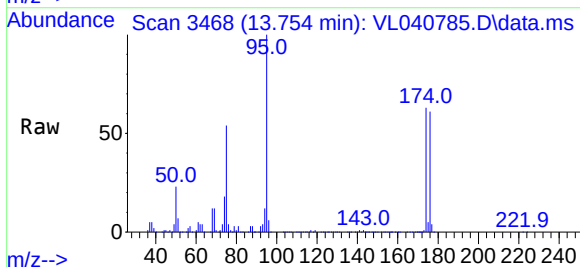
Instrument :
 MSVOA_L
 ClientSampleId :

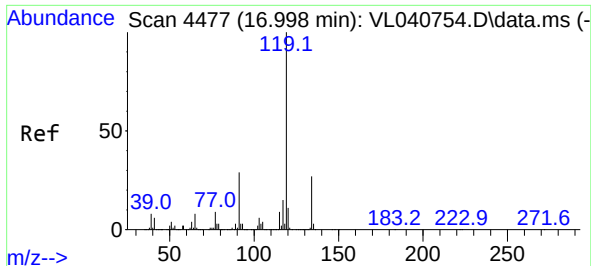
Tgt Ion:105 Resp: 183288
 Ion Ratio Lower Upper
 105 100
 134 18.3 15.4 23.2



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.376 ppbv
 RT: 13.754 min Scan# 3468
 Delta R.T. -0.029 min
 Lab File: VL040785.D
 Acq: 23 Oct 2023 19:15

Tgt Ion: 95 Resp: 1747255
 Ion Ratio Lower Upper
 95 100
 174 65.8 54.7 82.1
 175 5.0 4.2 6.4

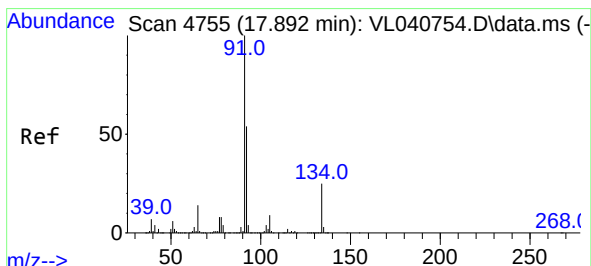
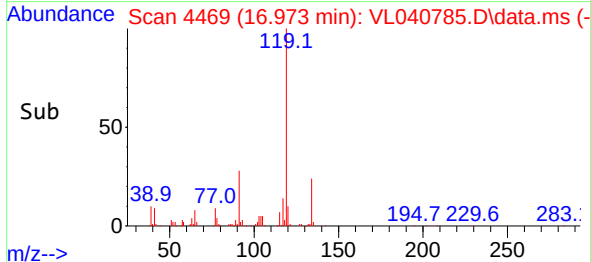
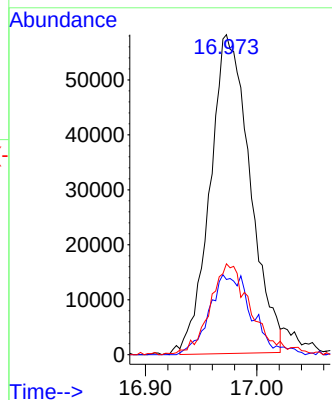
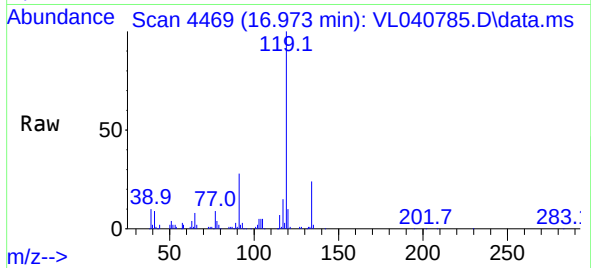




#69
p-Isopropyltoluene
Concen: 0.402 ppbv
RT: 16.973 min Scan# 4477
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

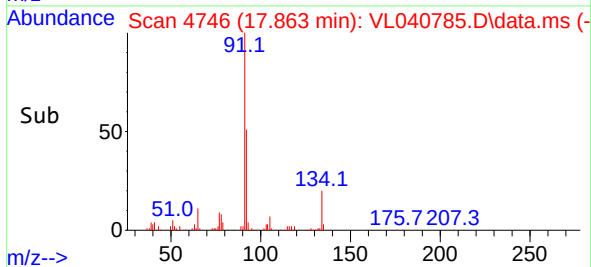
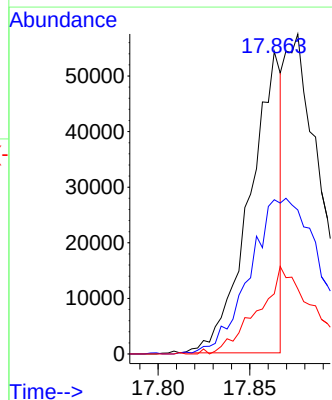
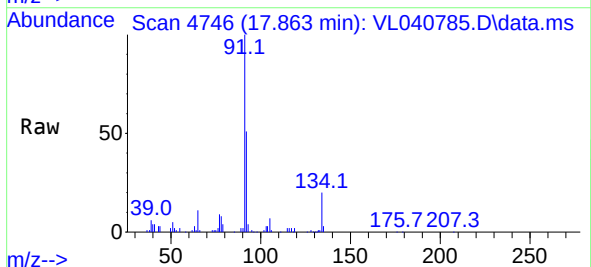
Instrument :
MSVOA_L
ClientSampleId :

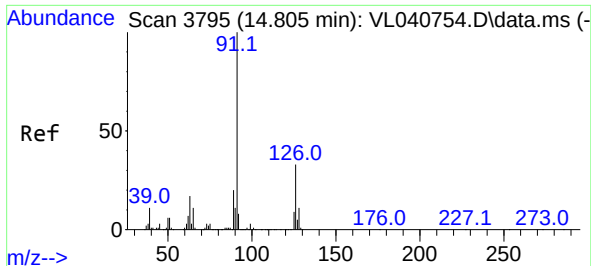
Tgt Ion:119 Resp: 144499
Ion Ratio Lower Upper
119 100
134 26.9 21.0 31.4
91 30.0 22.8 34.2



#70
n-Butylbenzene
Concen: 0.184 ppbv
RT: 17.863 min Scan# 4746
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion: 91 Resp: 64870
Ion Ratio Lower Upper
91 100
92 123.0 44.1 66.1#
134 54.1 19.5 29.3#

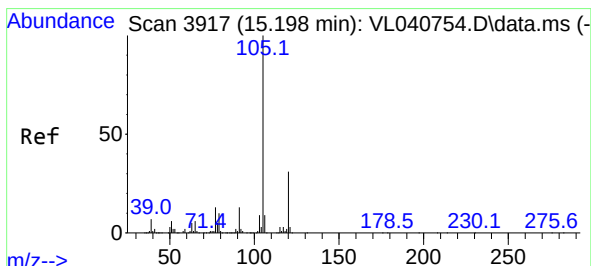
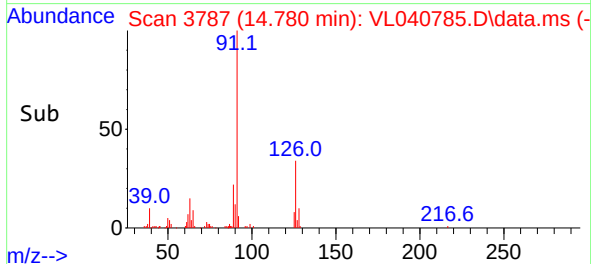
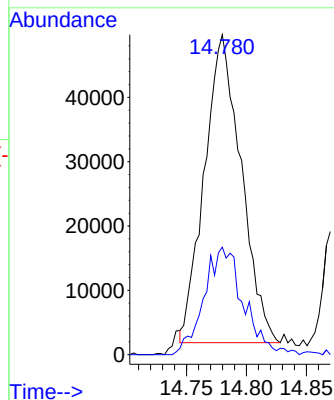
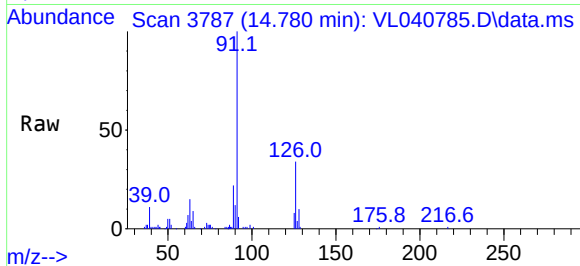




#71
2-Chlorotoluene
Concen: 0.391 ppbv
RT: 14.780 min Scan# 31
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

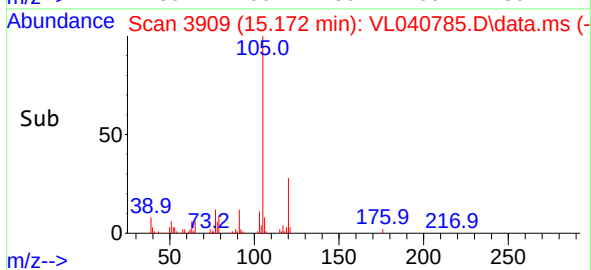
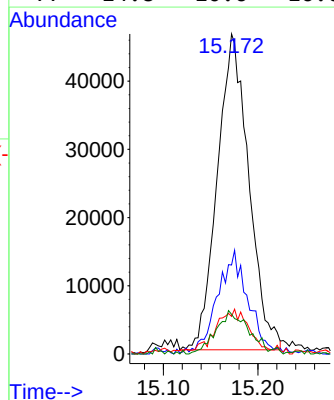
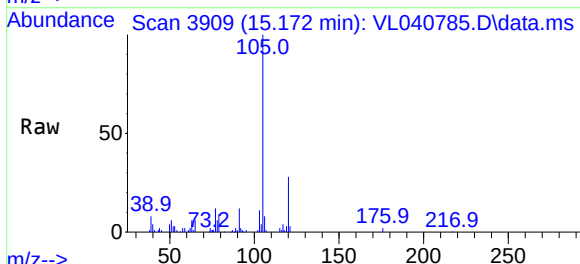
Instrument :
MSVOA_L
ClientSampleId :

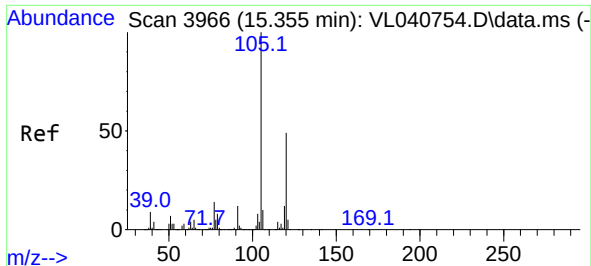
Tgt Ion: 91 Resp: 102019
Ion Ratio Lower Upper
91 100
126 37.3 13.3 53.1



#72
4-Ethyltoluene
Concen: 0.405 ppbv
RT: 15.172 min Scan# 3909
Delta R.T. -0.026 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:105 Resp: 107127
Ion Ratio Lower Upper
105 100
120 33.8 25.0 37.4
91 15.8 9.8 14.8#
77 14.8 10.6 16.0

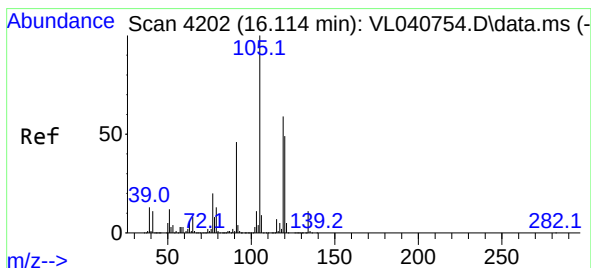
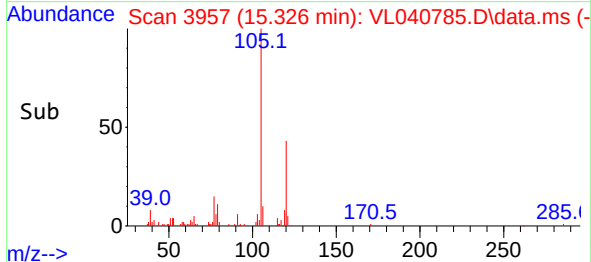
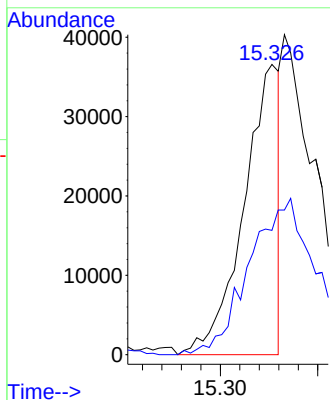
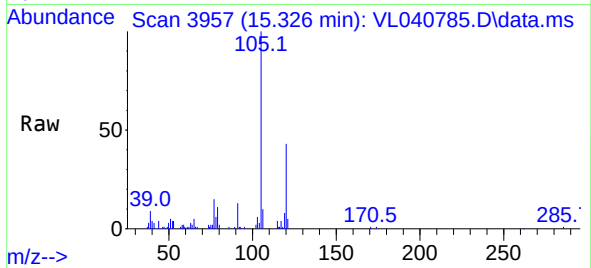




#73
1,3,5-Trimethylbenzene
Concen: 0.199 ppbv
RT: 15.326 min Scan# 3966
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

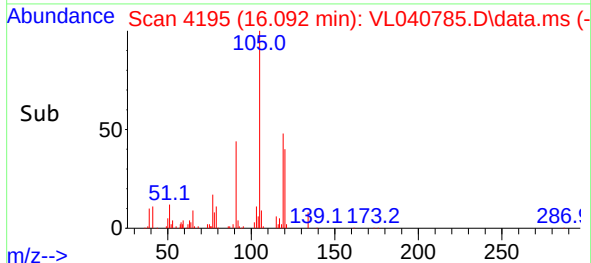
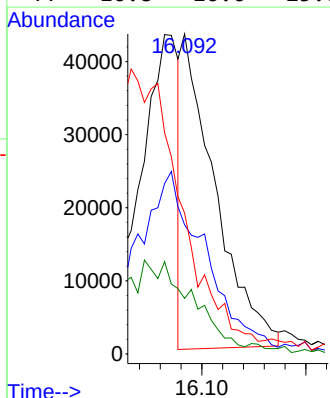
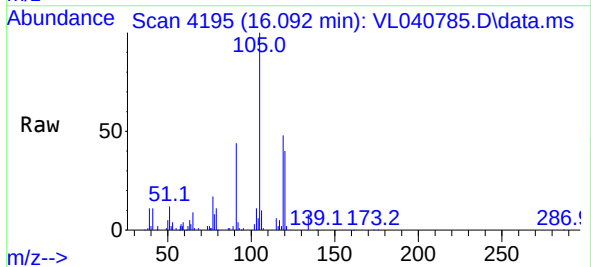
Instrument :
MSVOA_L
ClientSampleId :

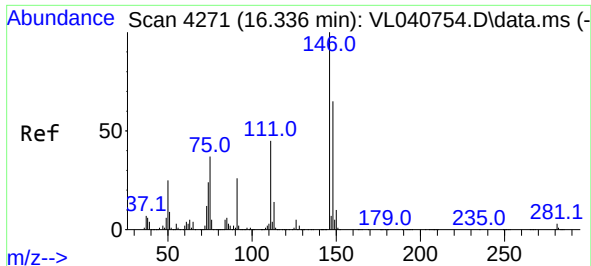
Tgt Ion:105 Resp: 46318
Ion Ratio Lower Upper
105 100
120 42.9 39.4 59.2



#74
1,2,4-Trimethylbenzene
Concen: 0.188 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. -0.022 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:105 Resp: 47747
Ion Ratio Lower Upper
105 100
120 41.0 39.4 59.2
91 42.8 38.6 58.0
77 16.8 16.6 25.0

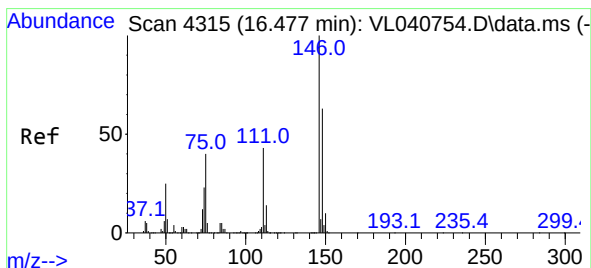
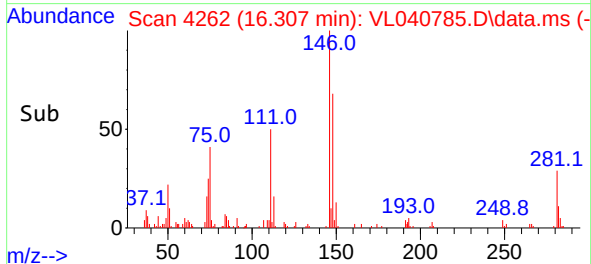
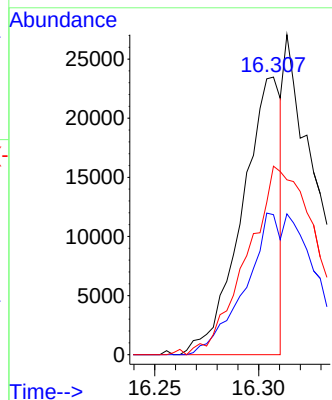
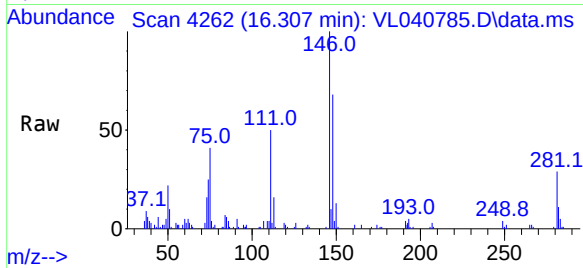




#75
1,3-Dichlorobenzene
Concen: 0.194 ppbv
RT: 16.307 min Scan# 41
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

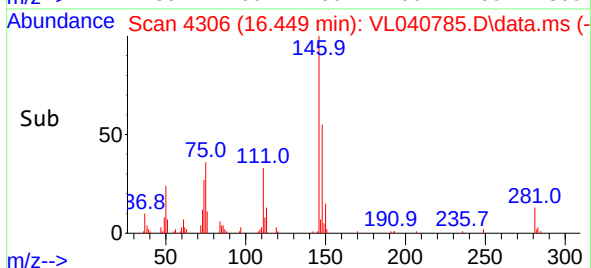
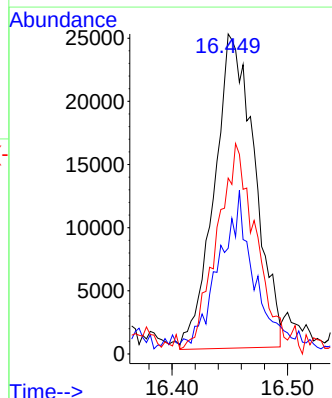
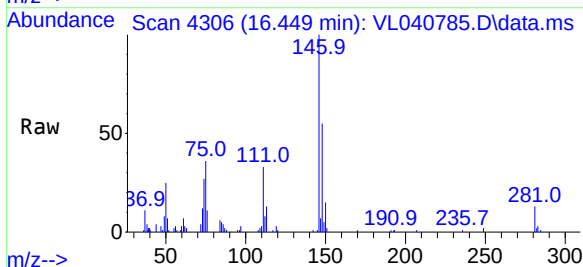
Instrument :
MSVOA_L
ClientSampleId :

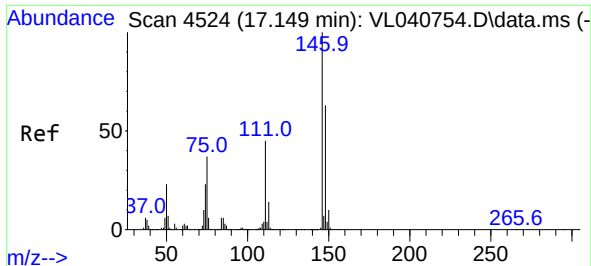
Tgt Ion:146 Resp: 30724
Ion Ratio Lower Upper
146 100
111 107.2 22.6 67.7#
148 141.1 32.4 97.0#



#76
1,4-Dichlorobenzene
Concen: 0.385 ppbv
RT: 16.449 min Scan# 4306
Delta R.T. -0.029 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:146 Resp: 60379
Ion Ratio Lower Upper
146 100
111 52.3 22.0 66.0
148 71.6 33.4 100.1

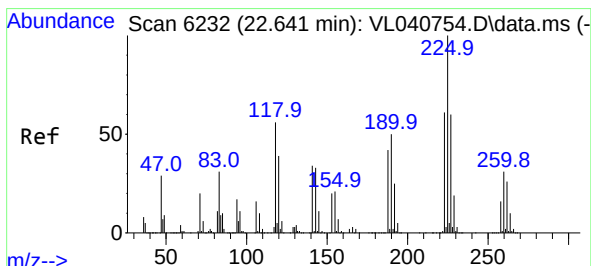
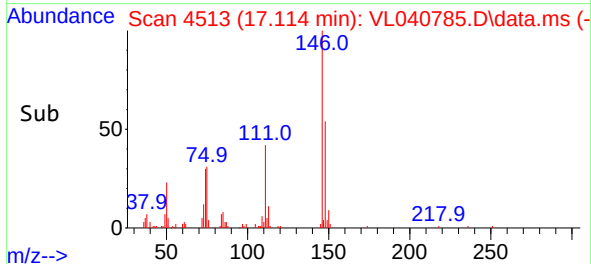
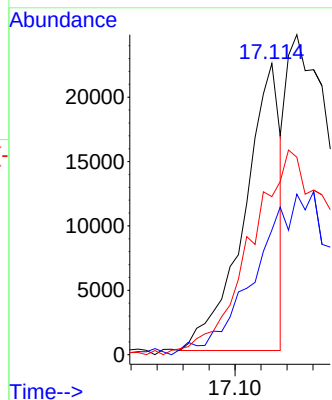
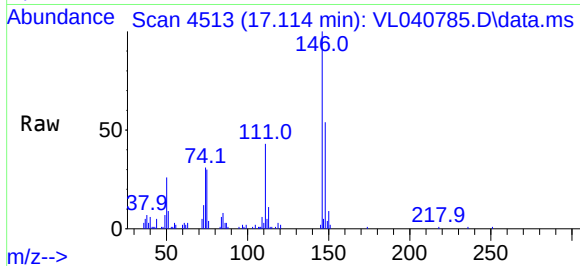




#77
1,2-Dichlorobenzene
Concen: 0.139 ppbv
RT: 17.114 min Scan# 4513
Delta R.T. -0.035 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

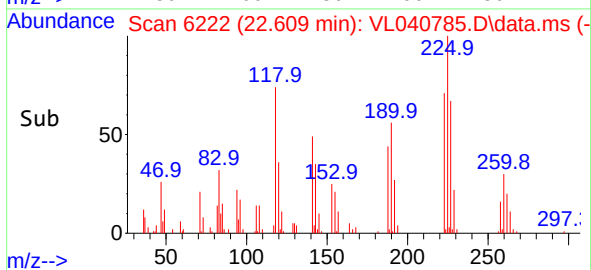
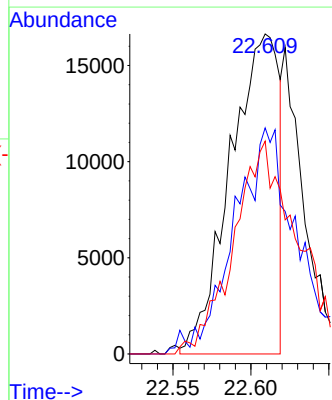
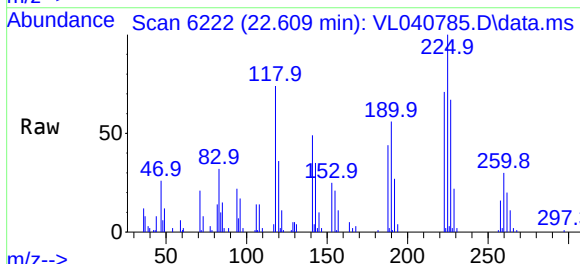
Instrument :
MSVOA_L
ClientSampleId :

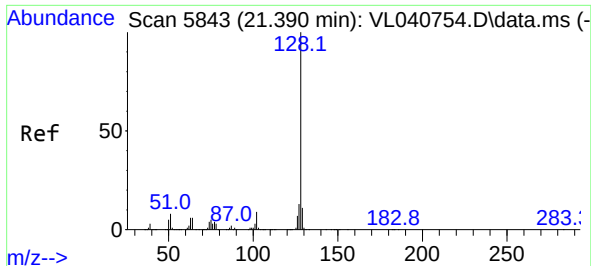
Tgt Ion:146 Resp: 21656
Ion Ratio Lower Upper
146 100
111 0.0 22.9 68.8#
148 0.0 32.3 96.8#



#78
Hexachloro-1,3-Butadiene
Concen: 0.323 ppbv
RT: 22.609 min Scan# 6222
Delta R.T. -0.032 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:225 Resp: 35934
Ion Ratio Lower Upper
225 100
223 91.9 50.7 76.1#
227 89.1 51.4 77.0#

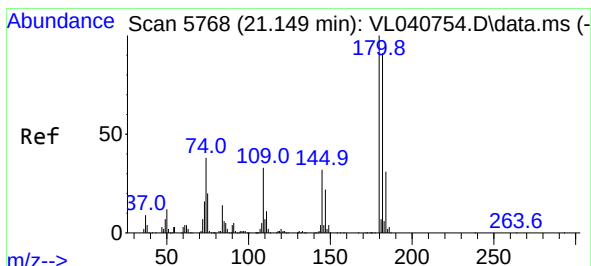
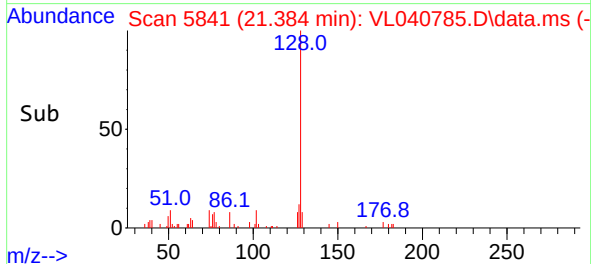
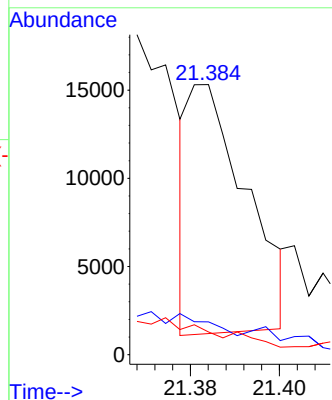
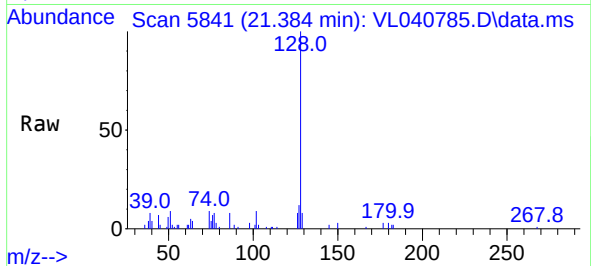




#79
Naphthalene
Concen: 0.061 ppbv
RT: 21.384 min Scan# 5843
Delta R.T. -0.006 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:	128	Resp:	12629
Ion Ratio	Lower	Upper	
128	100		
127	11.4	10.6	15.8
129	9.3	9.0	13.4



#81
1,2,4-Trichlorobenzene
Concen: 0.064 ppbv
RT: 21.104 min Scan# 5754
Delta R.T. -0.045 min
Lab File: VL040785.D
Acq: 23 Oct 2023 19:15

Tgt Ion:	180	Resp:	7212
Ion Ratio	Lower	Upper	
180	100		
182	0.0	77.9	116.9#
184	0.0	25.0	37.6#

