

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040596.D
 Acq On : 7 Aug 2023 13:13
 Operator : SY/MD
 Sample : 03861-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E065-1100DL

Quant Time: Aug 08 01:40:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

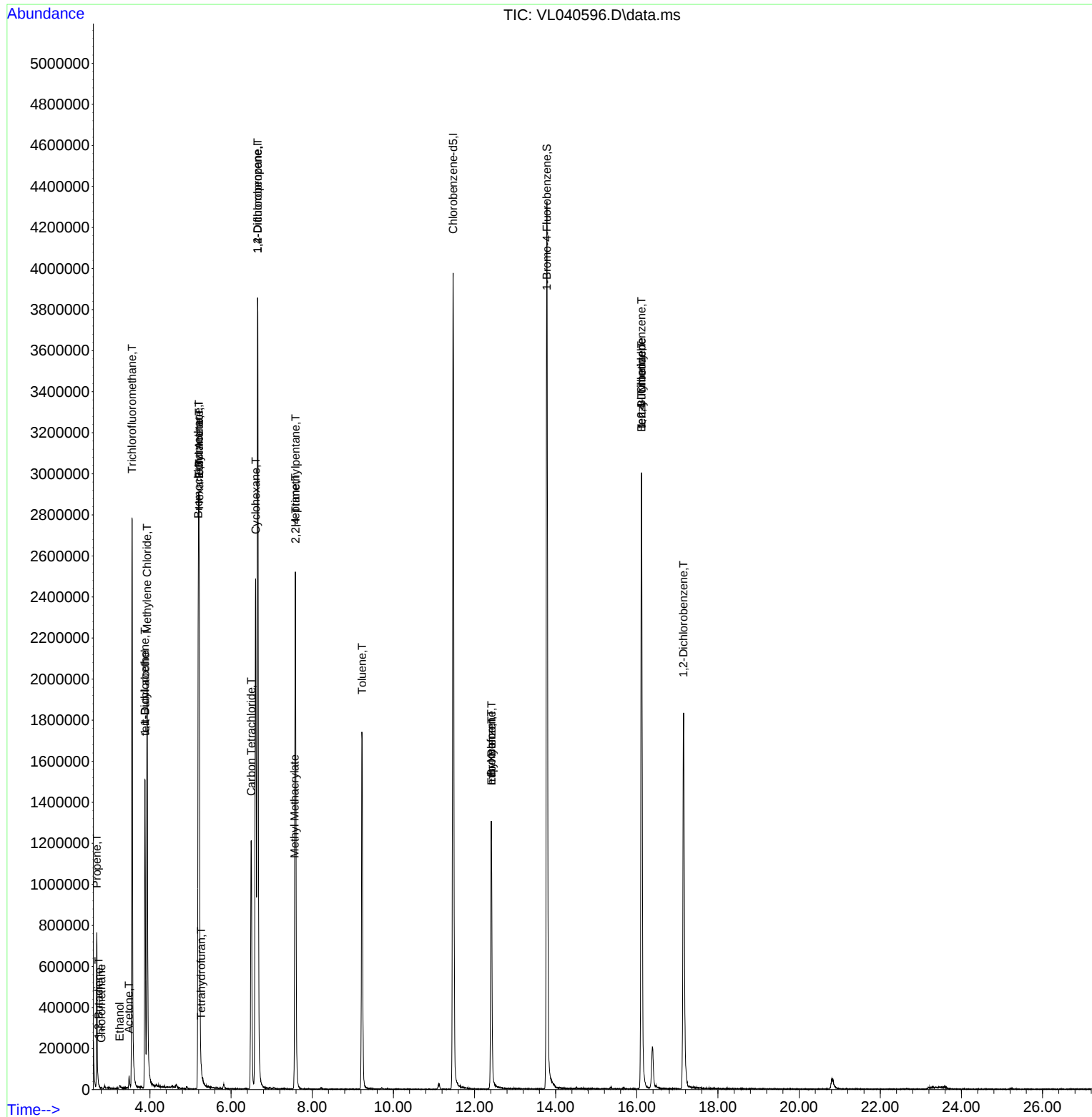
Internal Standards							
1) Bromochloromethane		5.192	49	1102241	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene		6.655	114	2763712	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.471	117	2400304	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.786	95	2021791	10.643	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	=	106.400%
Target Compounds							
							Qvalue
4) Chloromethane		2.803	50	2225	0.032	ppbv	91
9) Propene		2.690	41	292066	4.883	ppbv	100
10) Heptane		7.584	43	1074361	8.135	ppbv	99
11) Trichlorofluoromethane		3.559	101	1889342	10.620	ppbv	97
13) Ethanol		3.256	45	8397	0.645	ppbv #	43
15) Acetone		3.481	43	20879	0.165	ppbv #	46
16) 1,3-Butadiene		2.735	39	3848	0.060	ppbv #	10
17) tert-Butyl alcohol		3.880	59	27160	0.207	ppbv #	71
18) 1,1-Dichloroethene		3.877	96	440546	7.648	ppbv	92
20) Methylene Chloride		3.932	84	669170	12.399	ppbv	95
25) Ethyl Acetate		5.211	43	519448	2.150	ppbv #	76
26) Hexane		5.214	57	771914	6.879	ppbv #	40
30) Cyclohexane		6.607	84	847788	9.079	ppbv	97
34) 2-Butanone		5.211	43	519448	3.804	ppbv #	51
35) Carbon Tetrachloride		6.497	117	735578	4.423	ppbv	97
39) 1,2-Dichloropropane		6.655	63	724614	8.465	ppbv #	28
41) Tetrahydrofuran		5.263	42	5126	0.064	ppbv #	34
43) Methyl Methacrylate		7.565	69	8741	0.105	ppbv #	1
44) 2,2,4-Trimethylpentane		7.587	57	553998	1.548	ppbv #	1
49) Bromoform		12.413	173	670512	5.792	ppbv	99
53) Toluene		9.230	91	1314024	5.440	ppbv	98
58) Ethyl Benzene		12.417	91	223887	0.743	ppbv #	43
59) m/p-Xylene		12.417	91	223887	0.833	ppbv #	31
65) tert-Butylbenzene		16.118	119	238825	0.703	ppbv #	47
66) Benzyl Chloride		16.114	91	306577	12.752	ppbv #	63
74) 1,2,4-Trimethylbenzene		16.118	105	2289135	7.419	ppbv #	65
77) 1,2-Dichlorobenzene		17.150	146	927047	5.183	ppbv	98

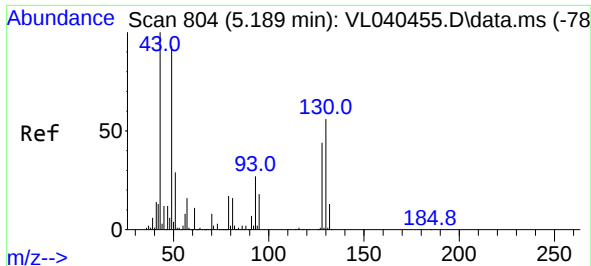
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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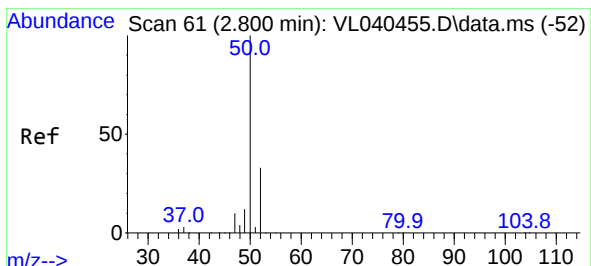
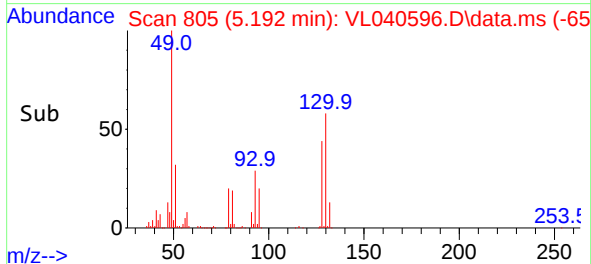
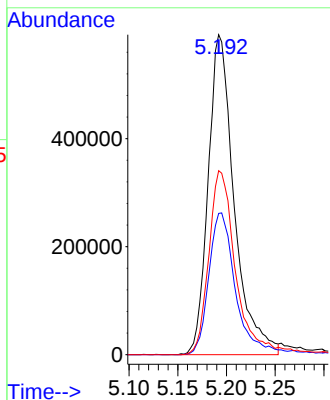
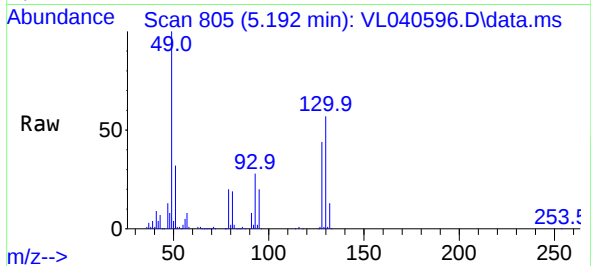




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

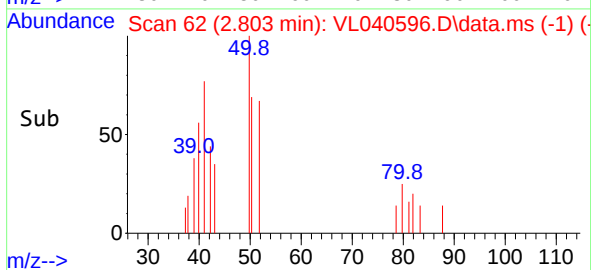
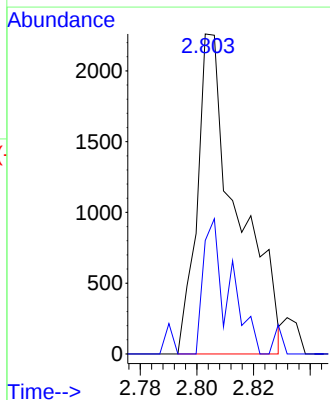
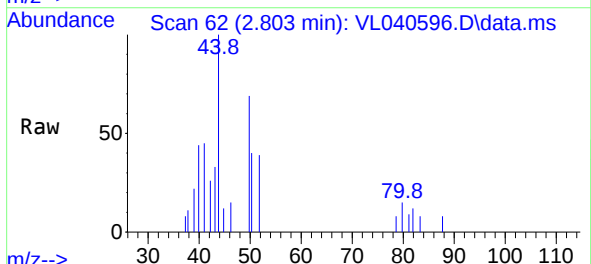
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

Tgt Ion: 49 Resp: 1102241
Ion Ratio Lower Upper
49 100
128 47.1 25.1 75.4
130 61.7 31.6 94.7

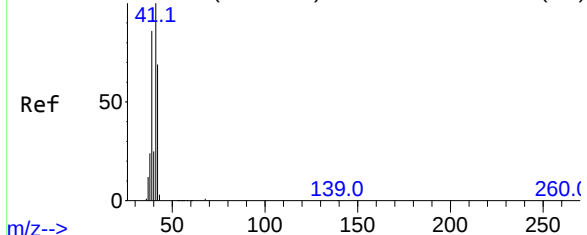


#4
Chloromethane
Concen: 0.032 ppbv
RT: 2.803 min Scan# 62
Delta R.T. -0.019 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 50 Resp: 2225
Ion Ratio Lower Upper
50 100
52 35.4 24.4 36.6



Abundance Scan 23 (2.677 min): VL040455.D\data.ms (-15)



#9

Propene

Concen: 4.883 ppbv

RT: 2.690 min Scan# 21

Delta R.T. -0.013 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

Instrument :

MSVOA_L

ClientSampleId :

E065-1100DL

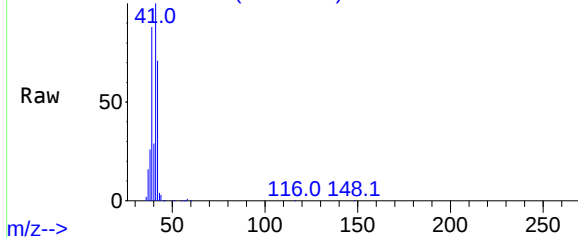
Tgt Ion: 41 Resp: 292066

Ion Ratio Lower Upper

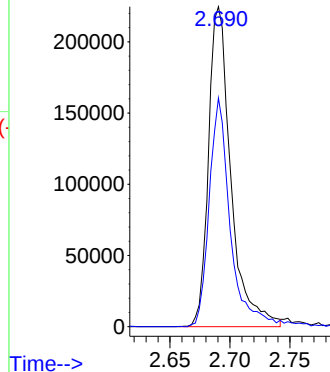
41 100

42 68.6 55.0 82.6

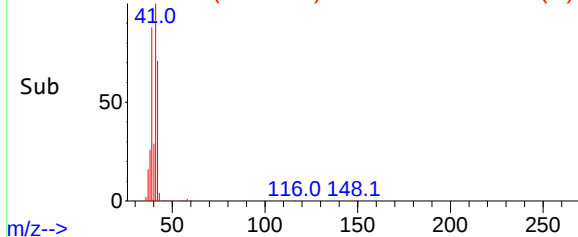
Abundance Scan 27 (2.690 min): VL040596.D\data.ms



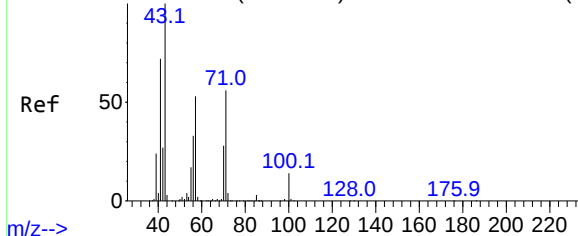
Abundance



Abundance Scan 27 (2.690 min): VL040596.D\data.ms (-1)



Abundance Scan 1549 (7.584 min): VL040455.D\data.ms (-1)



#10

Heptane

Concen: 8.135 ppbv

RT: 7.584 min Scan# 1549

Delta R.T. -0.006 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

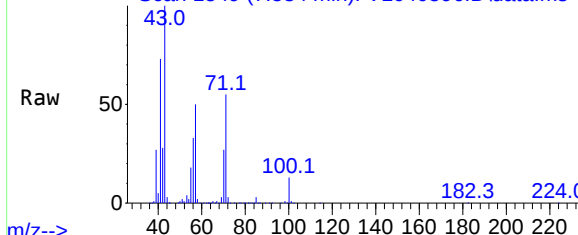
Tgt Ion: 43 Resp: 1074361

Ion Ratio Lower Upper

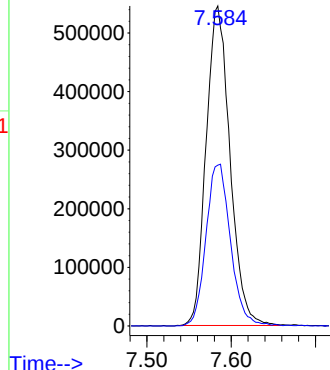
43 100

57 52.2 42.5 63.7

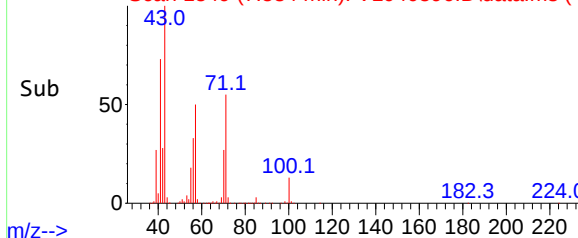
Abundance Scan 1549 (7.584 min): VL040596.D\data.ms

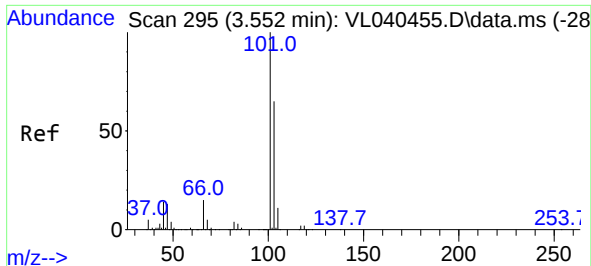


Abundance



Abundance Scan 1549 (7.584 min): VL040596.D\data.ms (-1)

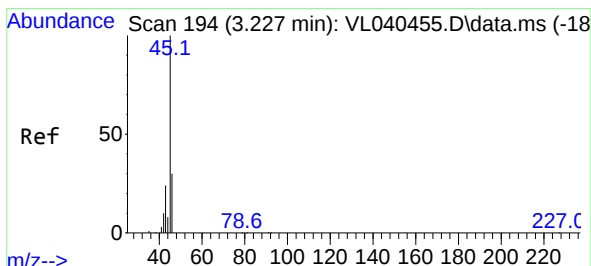
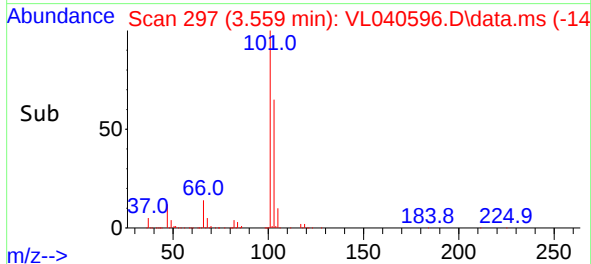
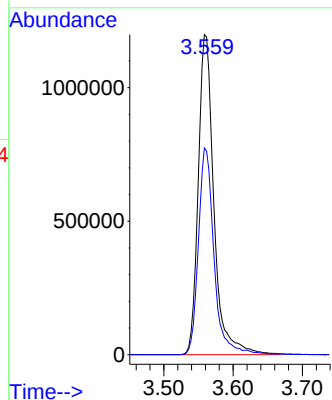
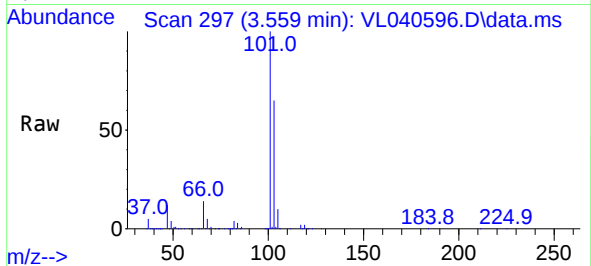




#11
Trichlorofluoromethane
Concen: 10.620 ppbv
RT: 3.559 min Scan# 203
Delta R.T. -0.013 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

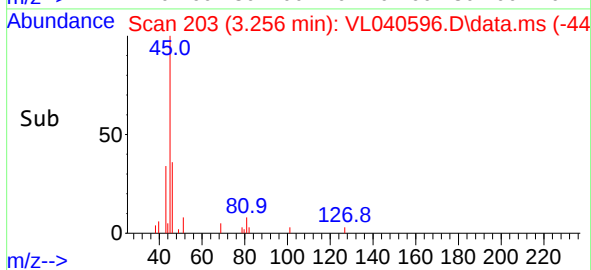
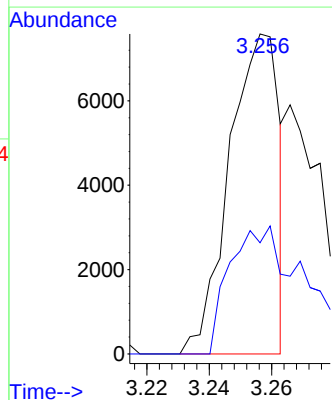
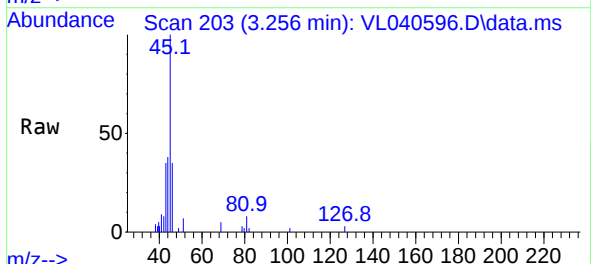
Instrument :
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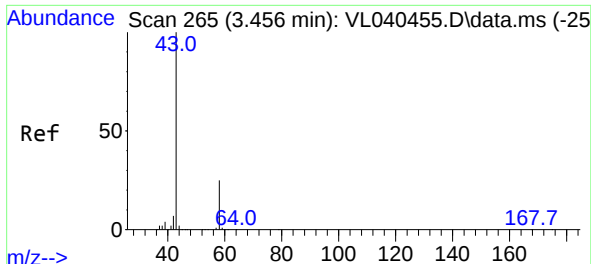
Tgt Ion:101 Resp: 1889342
Ion Ratio Lower Upper
101 100
103 64.6 53.4 80.0



#13
Ethanol
Concen: 0.645 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.010 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 45 Resp: 8397
Ion Ratio Lower Upper
45 100
46 72.6 15.3 61.1#

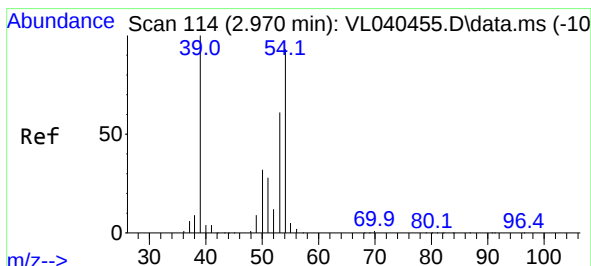
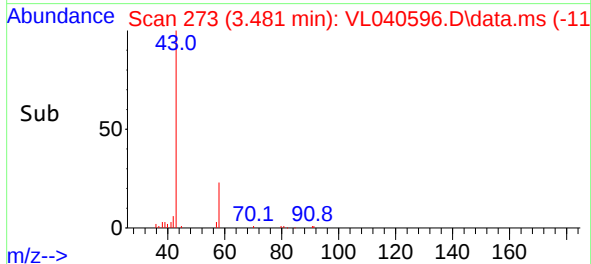
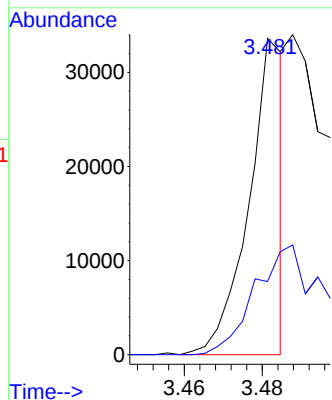
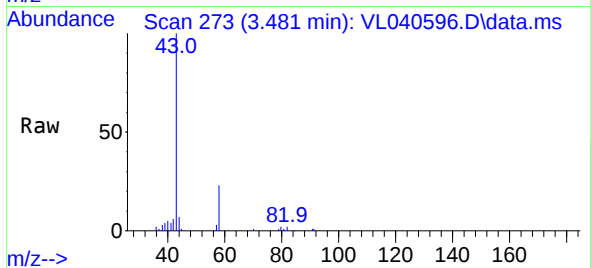




#15
Acetone
Concen: 0.165 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

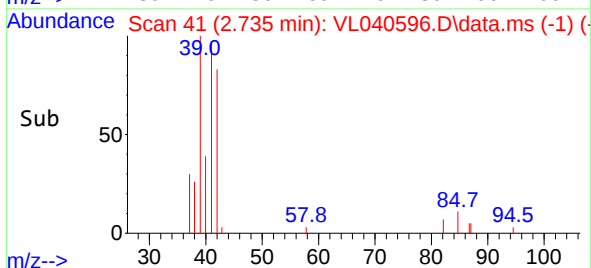
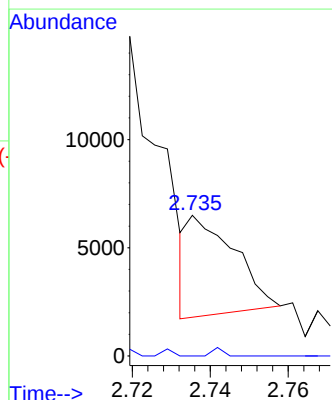
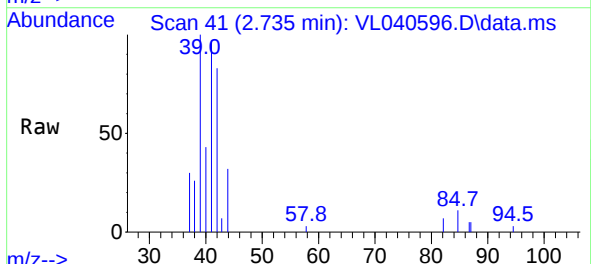
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

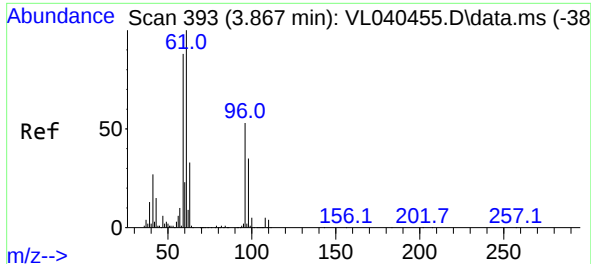
Tgt Ion: 43 Resp: 20879
Ion Ratio Lower Upper
43 100
58 0.0 22.9 34.3#



#16
1,3-Butadiene
Concen: 0.060 ppbv
RT: 2.735 min Scan# 41
Delta R.T. -0.257 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 39 Resp: 3848
Ion Ratio Lower Upper
39 100
54 1.9 66.6 100.0#





#17

tert-Butyl alcohol

Concen: 0.207 ppbv

RT: 3.880 min Scan# 397

Delta R.T. -0.003 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

Instrument :

MSVOA_L

ClientSampleId :

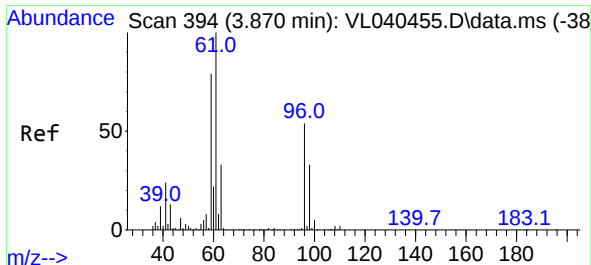
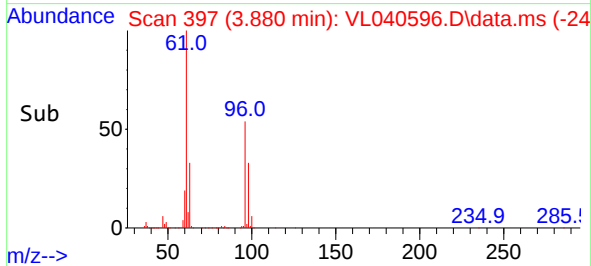
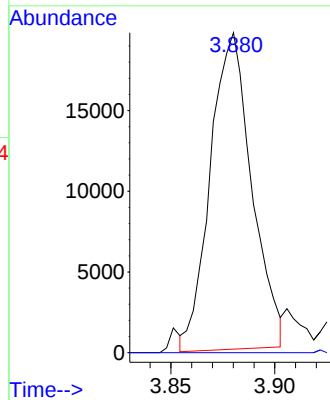
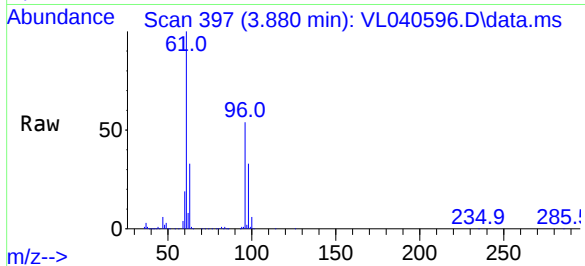
E065-1100DL

Tgt Ion: 59 Resp: 27160

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 7.648 ppbv

RT: 3.877 min Scan# 396

Delta R.T. -0.013 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

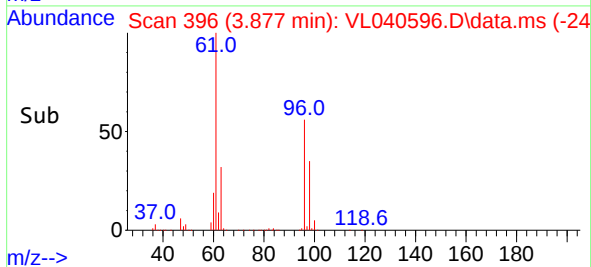
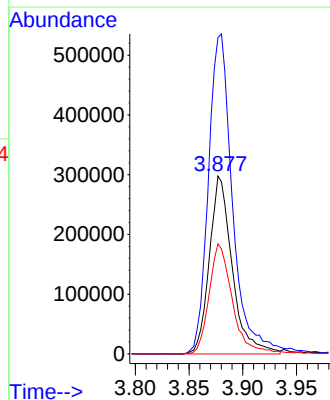
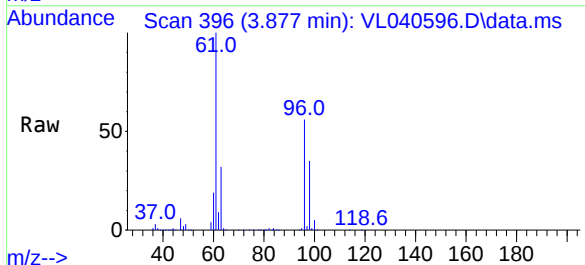
Tgt Ion: 96 Resp: 440546

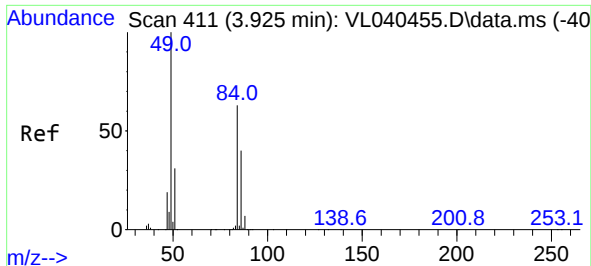
Ion Ratio Lower Upper

96 100

61 177.9 154.4 231.6

98 61.9 50.0 75.0



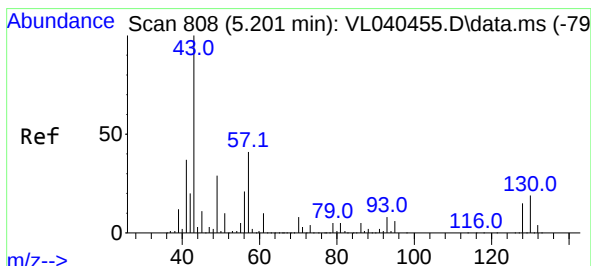
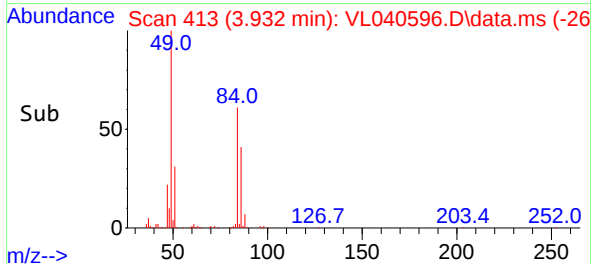
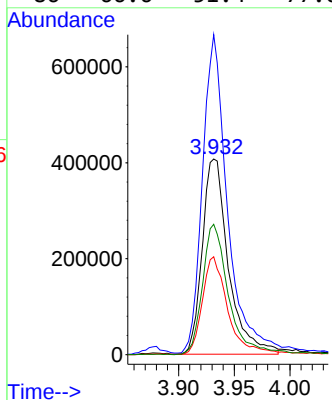
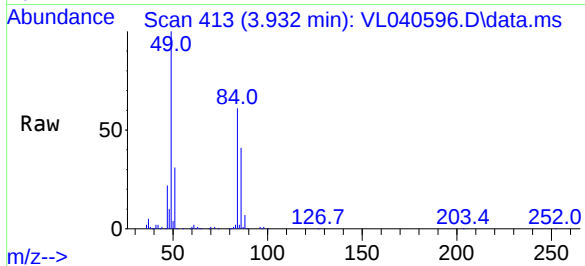


#20
Methylene Chloride
Concen: 12.399 ppbv
RT: 3.932 min Scan# 411
Delta R.T. -0.010 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

Tgt Ion: 84 Resp: 669170

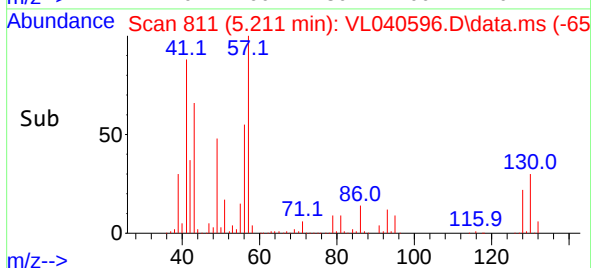
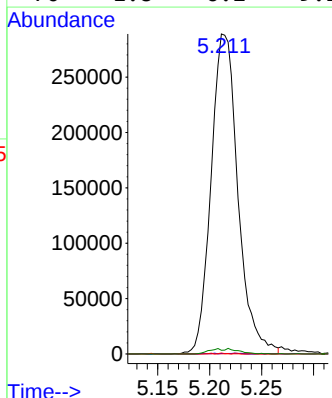
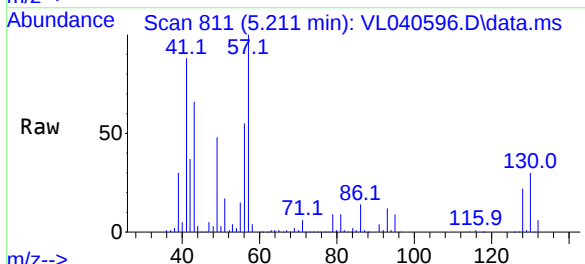
Ion	Ratio	Lower	Upper
84	100		
49	163.0	123.4	185.2
51	50.0	38.3	57.5
86	66.6	51.4	77.0

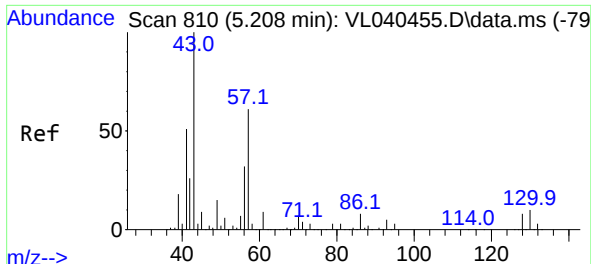


#25
Ethyl Acetate
Concen: 2.150 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.000 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 43 Resp: 519448

Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.2	12.4#
61	0.2	8.3	12.5#
70	1.8	6.2	9.2#

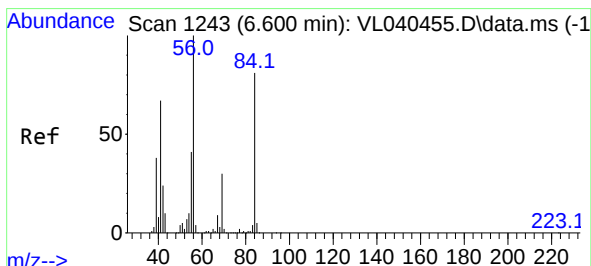
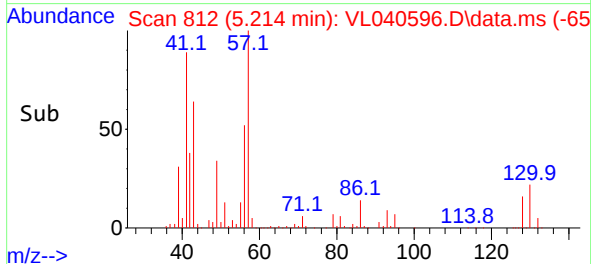
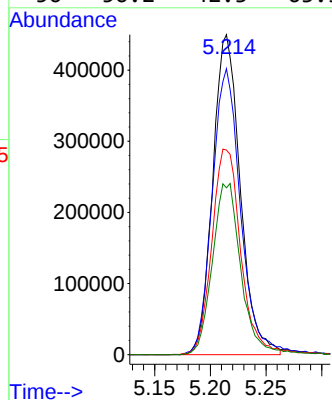
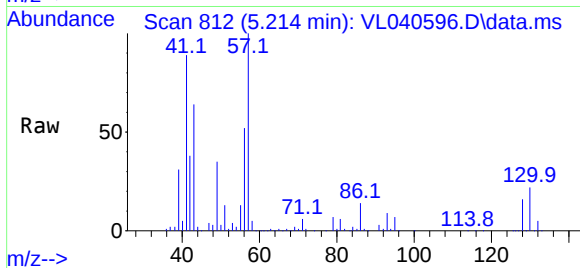




#26
Hexane
Concen: 6.879 ppbv
RT: 5.214 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

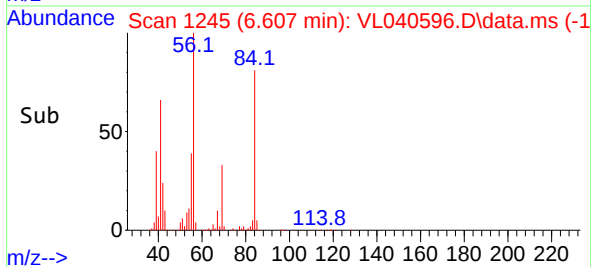
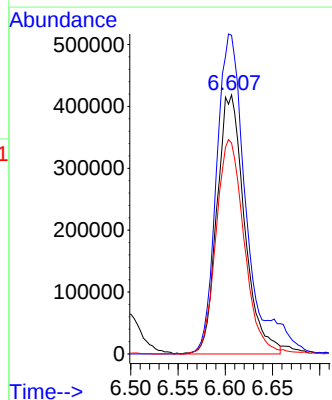
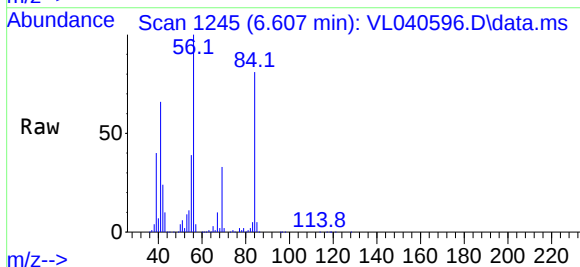
Instrument :
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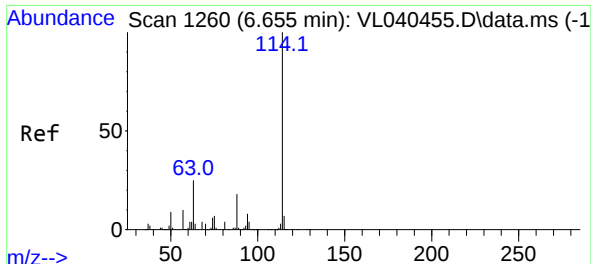
Tgt Ion: 57 Resp: 771914
Ion Ratio Lower Upper
57 100
41 93.5 69.5 104.3
43 68.7 177.1 265.7#
56 56.2 42.3 63.5



#30
Cyclohexane
Concen: 9.079 ppbv
RT: 6.607 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 84 Resp: 847788
Ion Ratio Lower Upper
84 100
56 134.5 108.7 163.1
41 84.9 64.5 96.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

Instrument :

MSVOA_L

ClientSampleId :

E065-1100DL

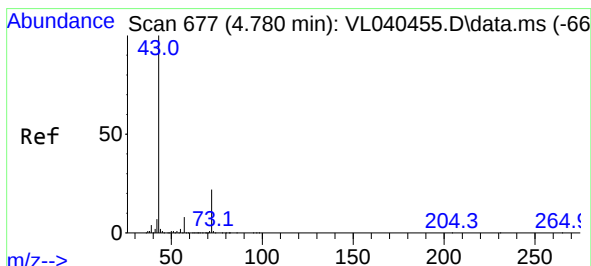
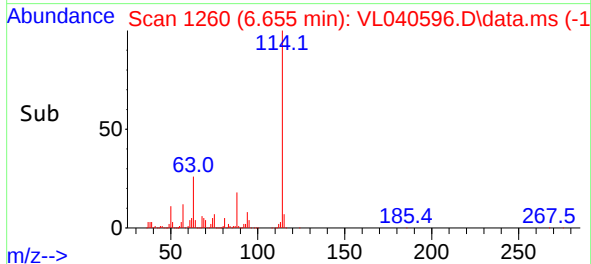
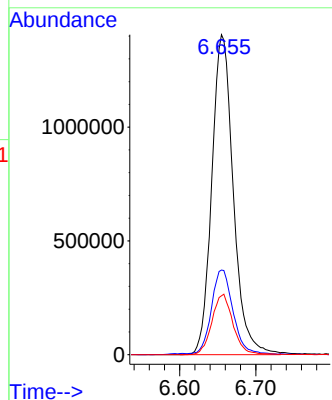
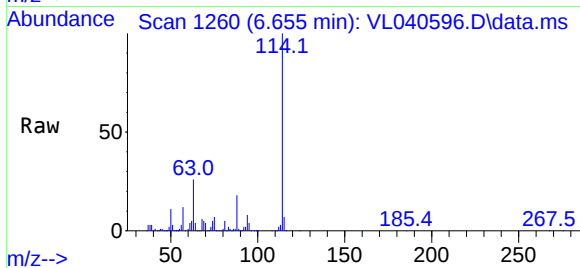
Tgt Ion:114 Resp: 2763712

Ion Ratio Lower Upper

114 100

63 27.4 19.6 29.4

88 18.6 14.2 21.2



#34

2-Butanone

Concen: 3.804 ppbv

RT: 5.211 min Scan# 811

Delta R.T. 0.418 min

Lab File: VL040596.D

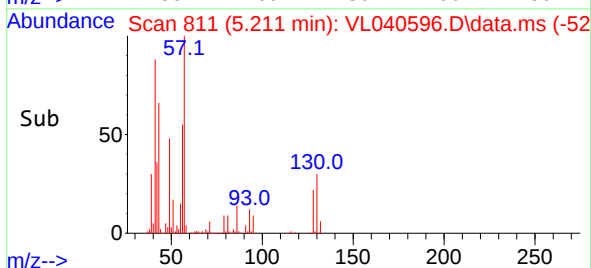
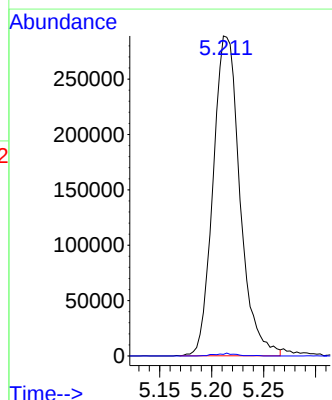
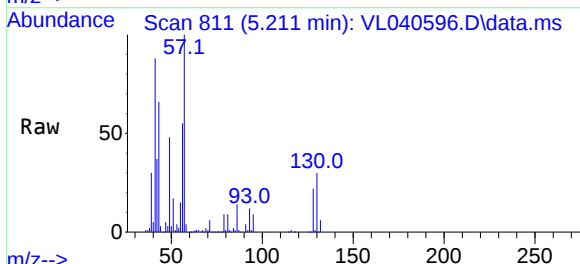
Acq: 7 Aug 2023 13:13

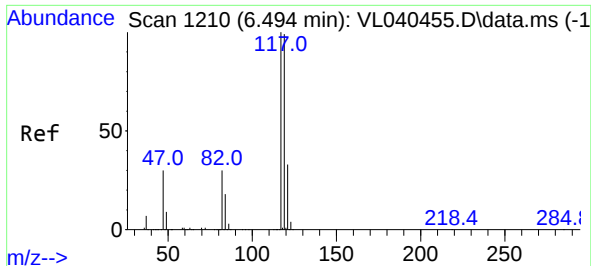
Tgt Ion: 43 Resp: 519448

Ion Ratio Lower Upper

43 100

72 0.0 19.1 28.7#

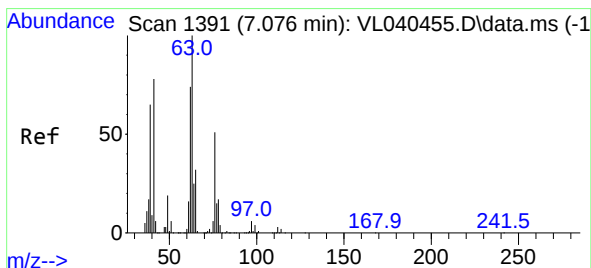
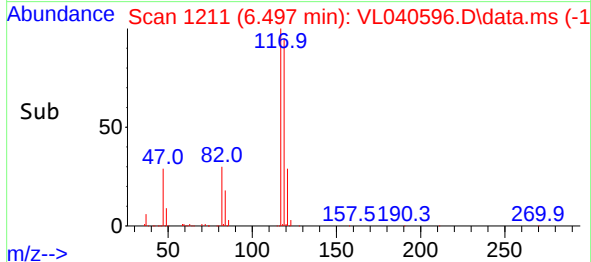
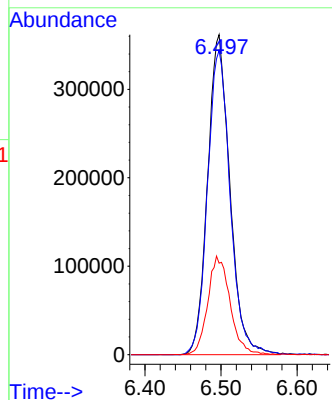
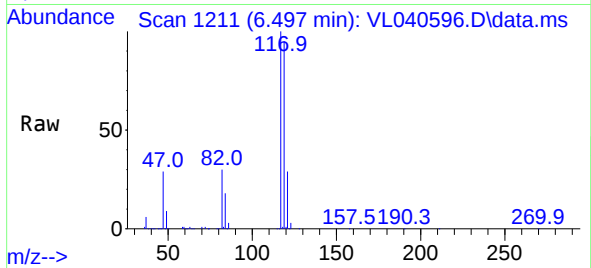




#35
Carbon Tetrachloride
Concen: 4.423 ppbv
RT: 6.497 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

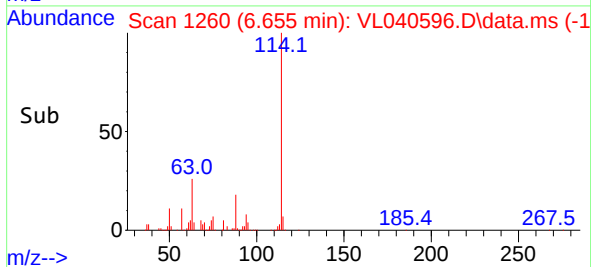
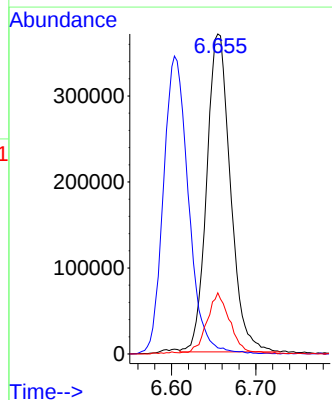
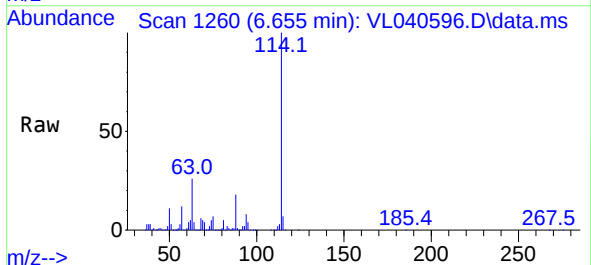
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

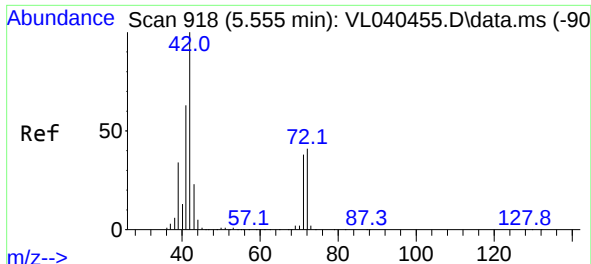
Tgt Ion:117 Resp: 735578
Ion Ratio Lower Upper
117 100
119 95.1 77.8 116.6
121 28.6 24.8 37.2



#39
1,2-Dichloropropane
Concen: 8.465 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.428 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 63 Resp: 724614
Ion Ratio Lower Upper
63 100
41 1.8 54.3 81.5#
62 19.1 55.6 83.4#





#41

Tetrahydrofuran

Concen: 0.064 ppbv

RT: 5.263 min Scan# 81

Delta R.T. -0.302 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

Instrument :

MSVOA_L

ClientSampleId :

E065-1100DL

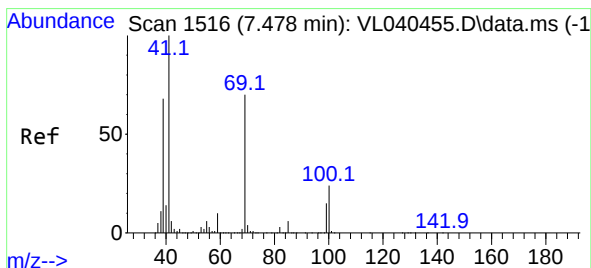
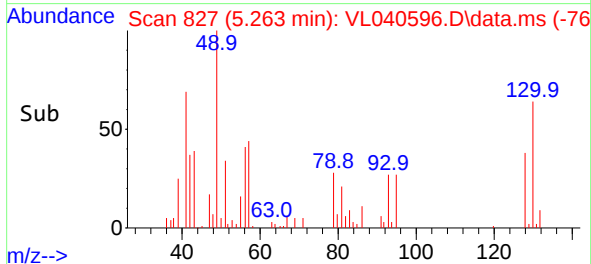
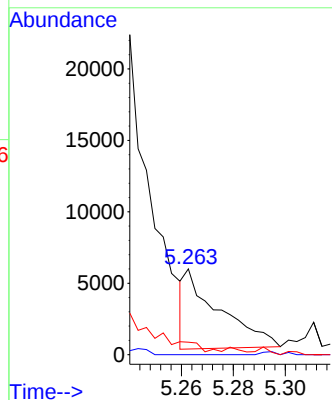
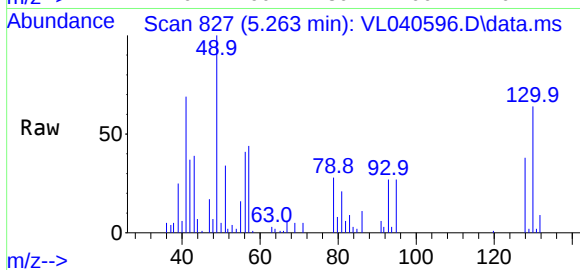
Tgt Ion: 42 Resp: 5126

Ion Ratio Lower Upper

42 100

72 0.0 33.8 50.8#

71 0.0 33.0 49.6#



#43

Methyl Methacrylate

Concen: 0.105 ppbv

RT: 7.565 min Scan# 1543

Delta R.T. 0.080 min

Lab File: VL040596.D

Acq: 7 Aug 2023 13:13

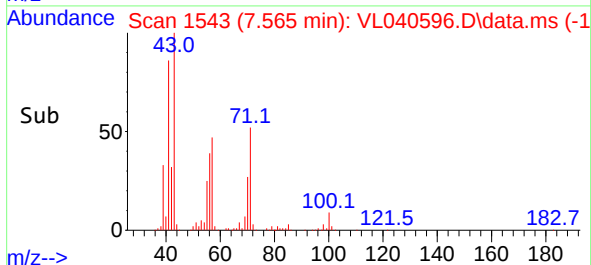
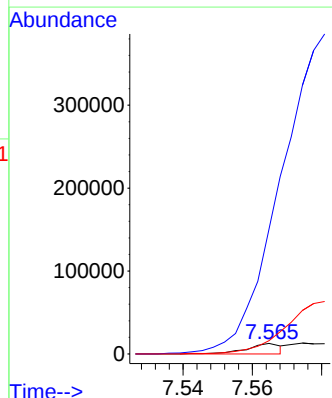
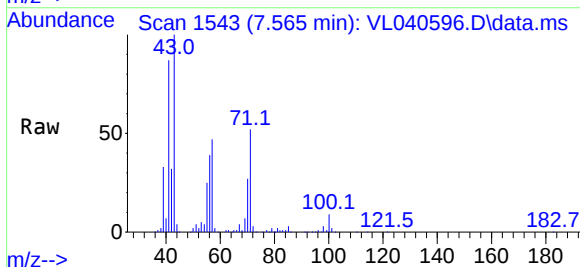
Tgt Ion: 69 Resp: 8741

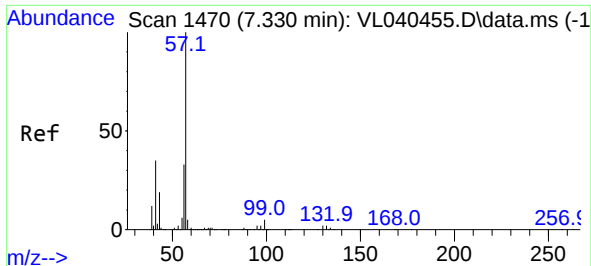
Ion Ratio Lower Upper

69 100

41 0.0 111.7 167.5#

100 0.0 26.9 40.3#

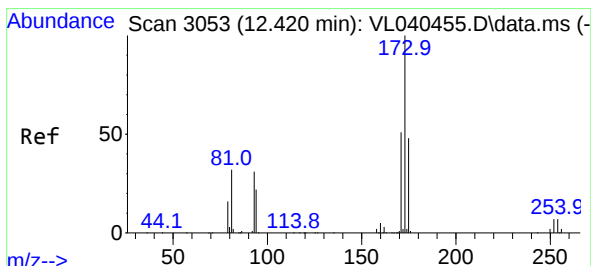
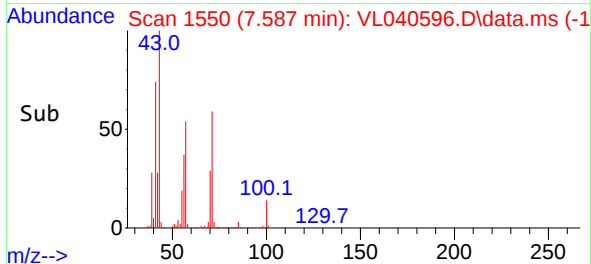
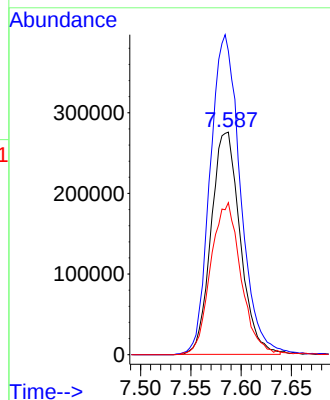
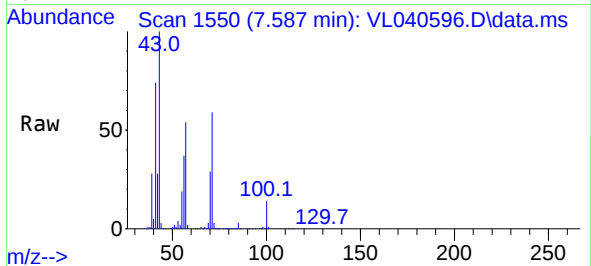




#44
2,2,4-Trimethylpentane
Concen: 1.548 ppbv
RT: 7.587 min Scan# 11
Delta R.T. 0.251 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

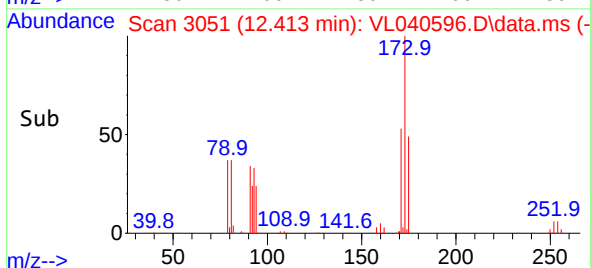
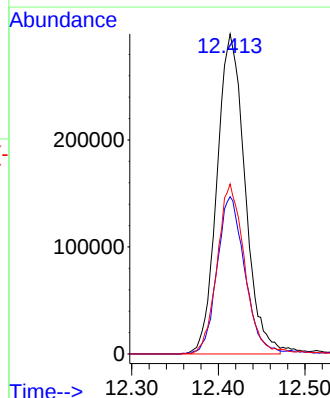
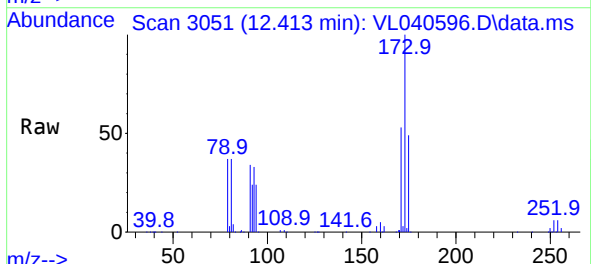
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

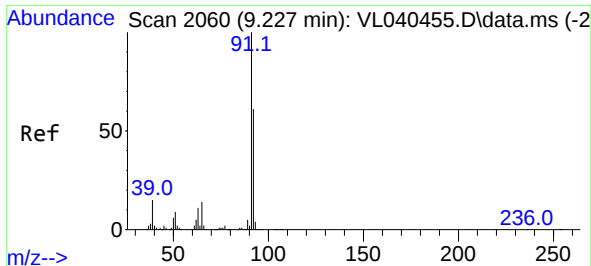
Tgt Ion: 57 Resp: 553998
Ion Ratio Lower Upper
57 100
41 150.9 25.5 38.3#
56 72.2 25.1 37.7#



#49
Bromoform
Concen: 5.792 ppbv
RT: 12.413 min Scan# 3051
Delta R.T. -0.010 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 173 Resp: 670512
Ion Ratio Lower Upper
173 100
175 49.9 39.5 59.3
171 52.5 42.2 63.4

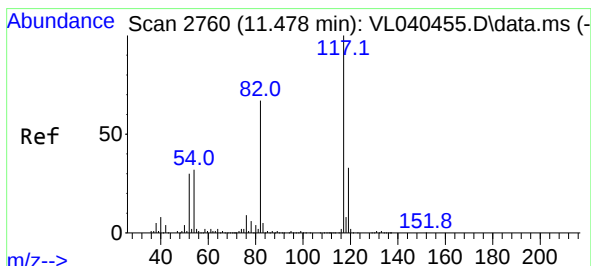
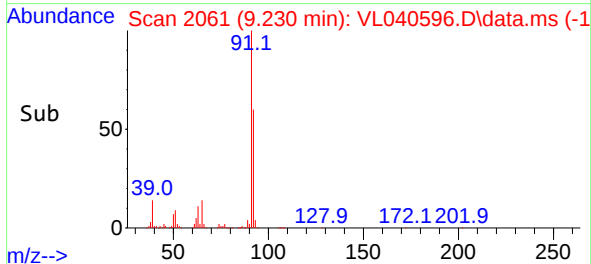
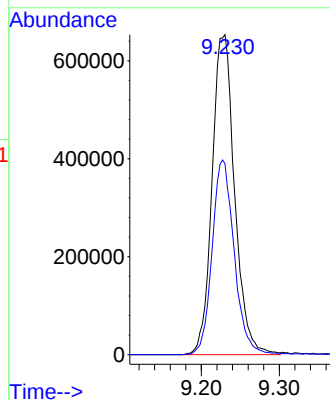
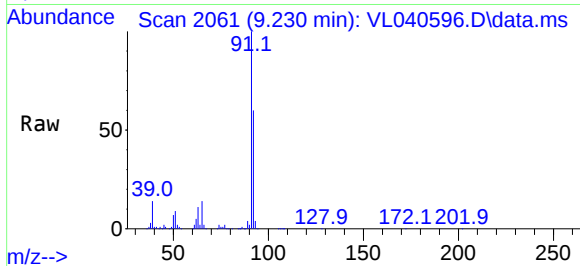




#53
Toluene
Concen: 5.440 ppbv
RT: 9.230 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

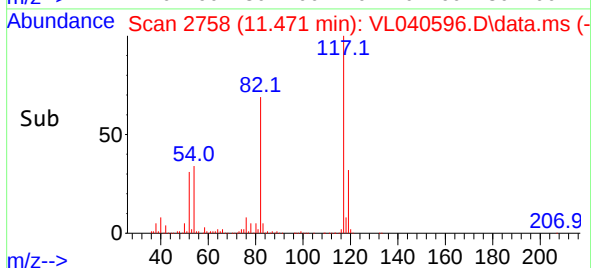
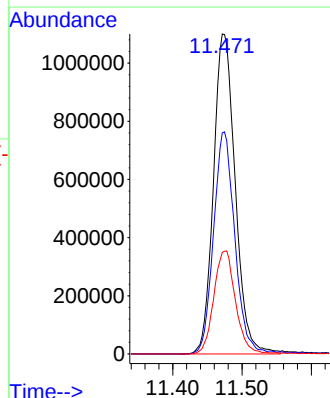
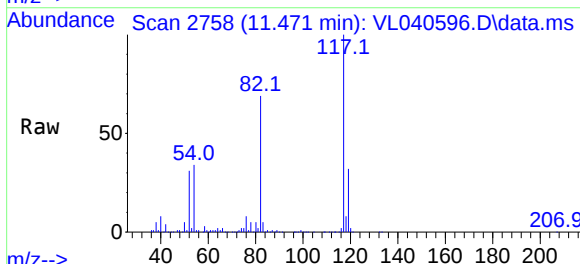
Instrument :
MSVOA_1
ClientSampleId :
E065-1100DL

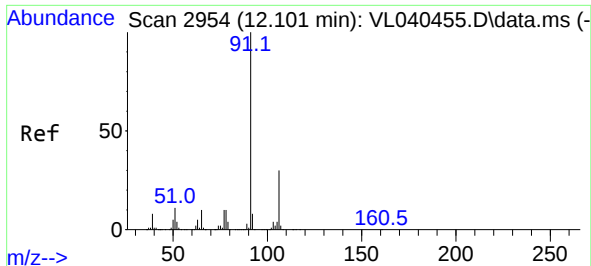
Tgt Ion: 91 Resp: 1314024
Ion Ratio Lower Upper
91 100
92 60.2 49.1 73.7



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 2758
Delta R.T. -0.006 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 117 Resp: 2400304
Ion Ratio Lower Upper
117 100
82 68.5 50.2 75.4
119 32.6 26.9 40.3

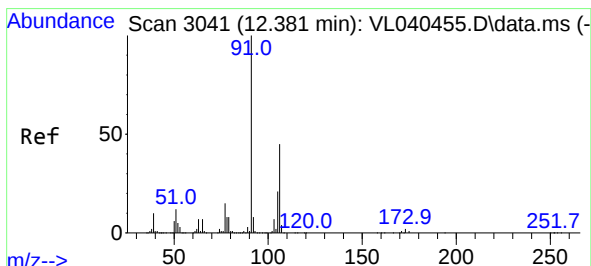
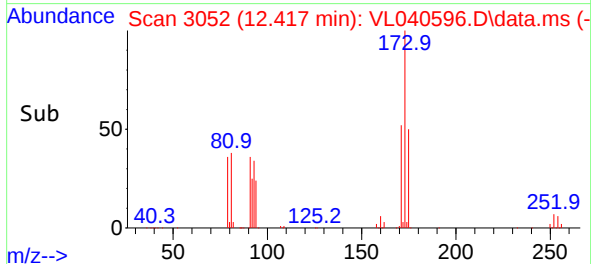
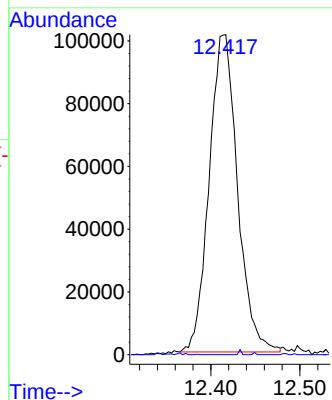
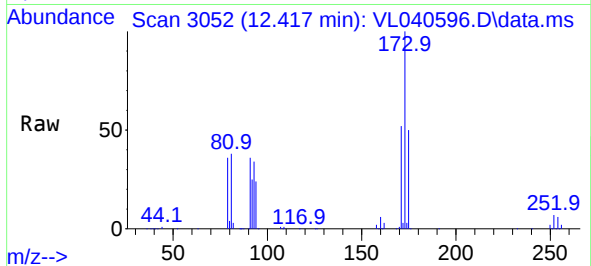




#58
Ethyl Benzene
Concen: 0.743 ppbv
RT: 12.417 min Scan# 3052
Delta R.T. 0.315 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

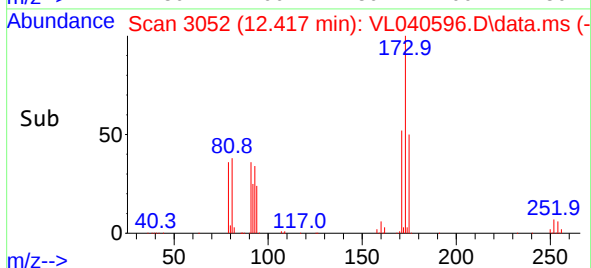
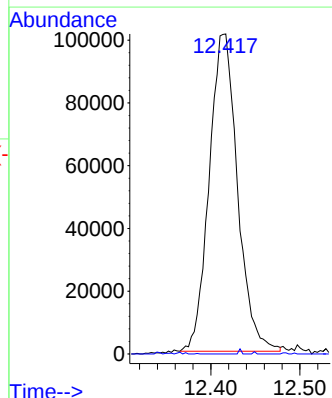
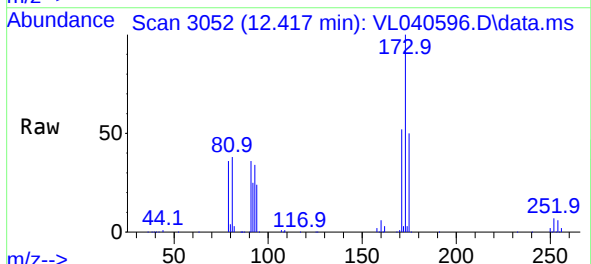
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

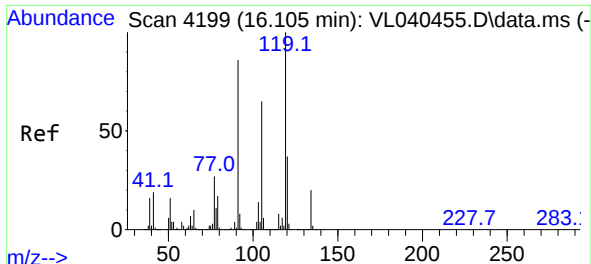
Tgt Ion: 91 Resp: 223887
Ion Ratio Lower Upper
91 100
106 0.0 25.4 38.0#



#59
m/p-Xylene
Concen: 0.833 ppbv
RT: 12.417 min Scan# 3052
Delta R.T. 0.032 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 91 Resp: 223887
Ion Ratio Lower Upper
91 100
106 0.1 35.9 53.9#

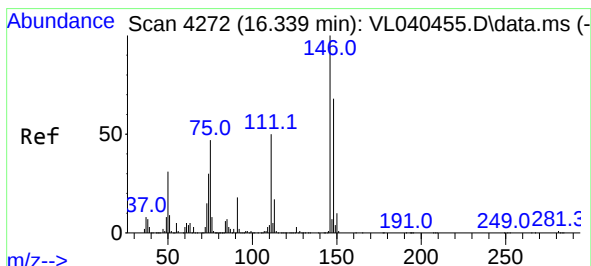
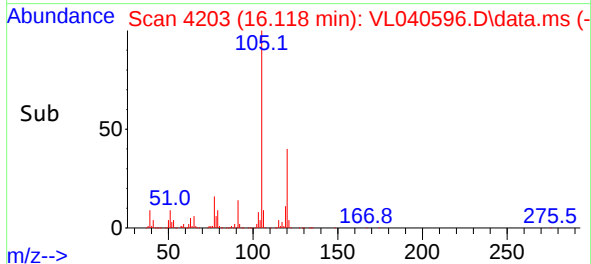
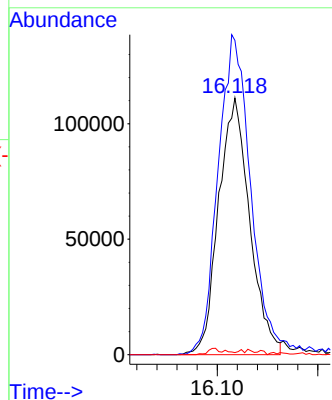
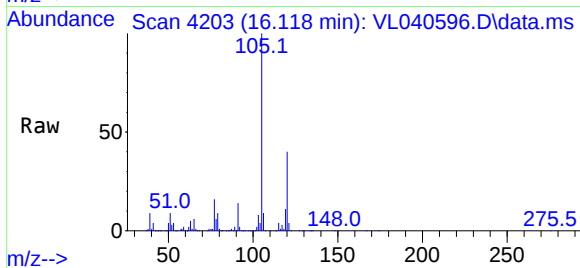




#65
tert-Butylbenzene
Concen: 0.703 ppbv
RT: 16.118 min Scan# 4199
Delta R.T. 0.016 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

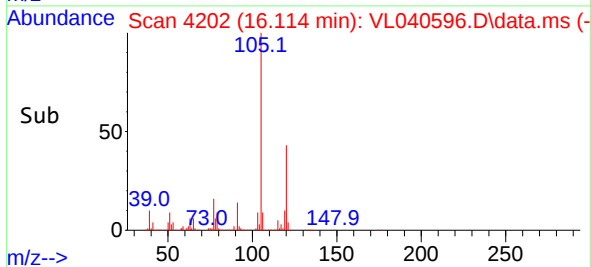
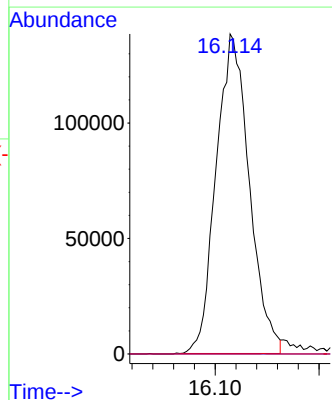
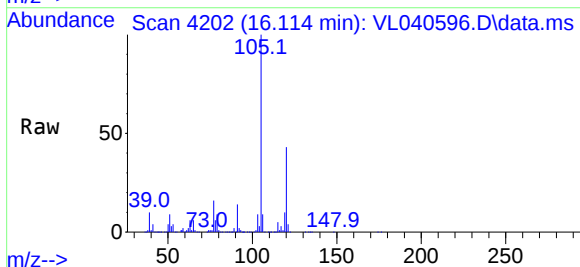
Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL

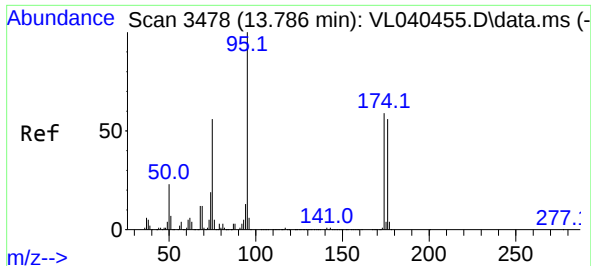
Tgt Ion:119 Resp: 238825
Ion Ratio Lower Upper
119 100
91 133.4 66.1 99.1#
134 1.9 15.7 23.5#



#66
Benzyl Chloride
Concen: 12.752 ppbv
RT: 16.114 min Scan# 4202
Delta R.T. -0.222 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Tgt Ion: 91 Resp: 306577
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.2#
128 0.0 4.5 6.7#

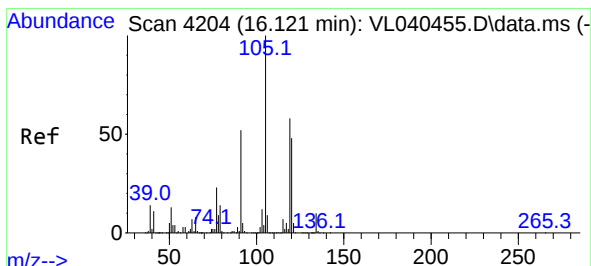
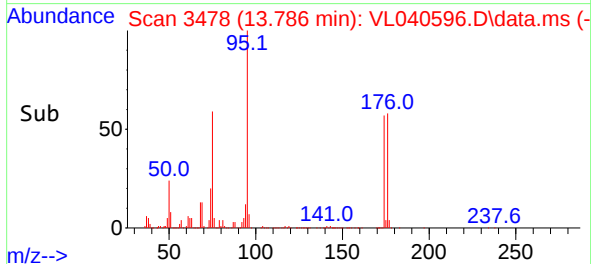
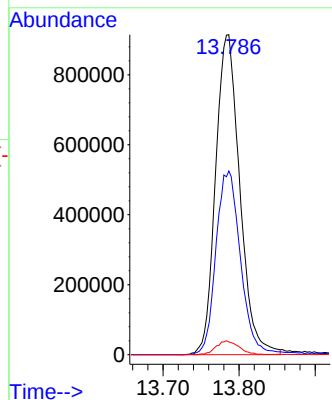
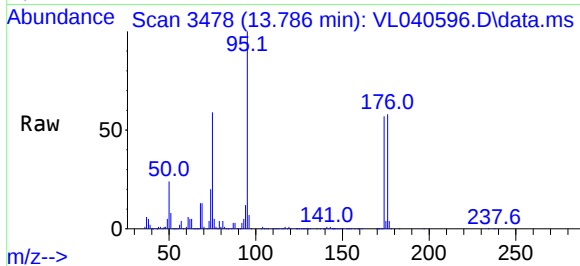




#68
1-Bromo-4-Fluorobenzene
Concen: 10.643 ppbv
RT: 13.786 min Scan# 3478
Delta R.T. 0.003 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

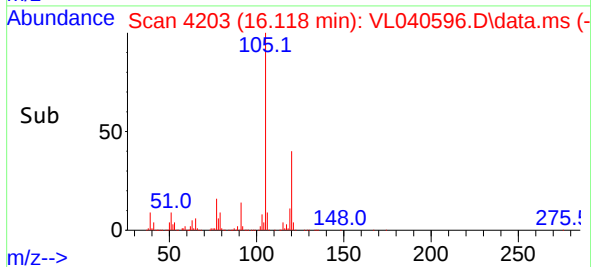
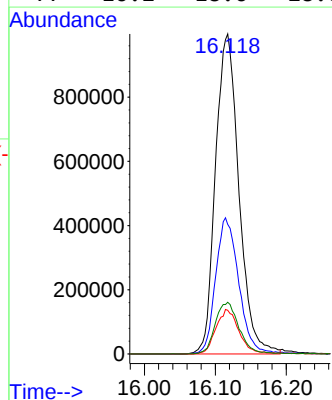
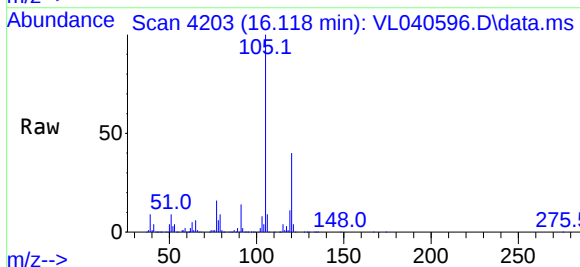
Instrument :
MSVOA_1
ClientSampleId :
E065-1100DL

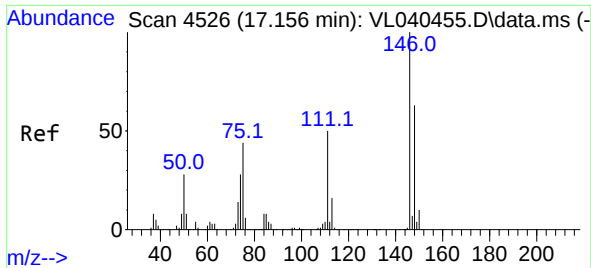
Tgt Ion: 95 Resp: 2021791
Ion Ratio Lower Upper
95 100
174 59.1 50.6 75.8
175 4.1 3.7 5.5



#74
1,2,4-Trimethylbenzene
Concen: 7.419 ppbv
RT: 16.118 min Scan# 4203
Delta R.T. 0.000 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

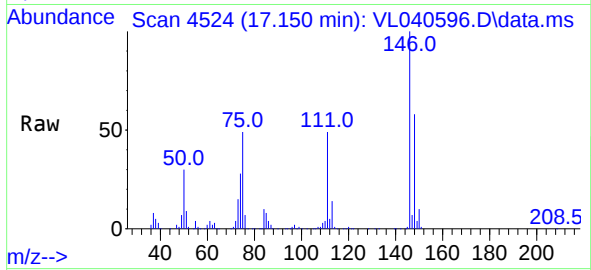
Tgt Ion: 105 Resp: 2289135
Ion Ratio Lower Upper
105 100
120 40.5 40.3 60.5
91 13.6 46.8 70.2#
77 16.2 18.6 28.0#





#77
1,2-Dichlorobenzene
Concen: 5.183 ppbv
RT: 17.150 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040596.D
Acq: 7 Aug 2023 13:13

Instrument :
MSVOA_L
ClientSampleId :
E065-1100DL



Tgt Ion:146 Resp: 927047
Ion Ratio Lower Upper
146 100
111 51.4 24.3 72.8
148 64.4 32.1 96.3

