

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL071023\
 Data File : VL040521.D
 Acq On : 11 Jul 2023 00:40
 Operator : SY/MD
 Sample : 03535-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Quant Time: Jul 11 02:11:42 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)

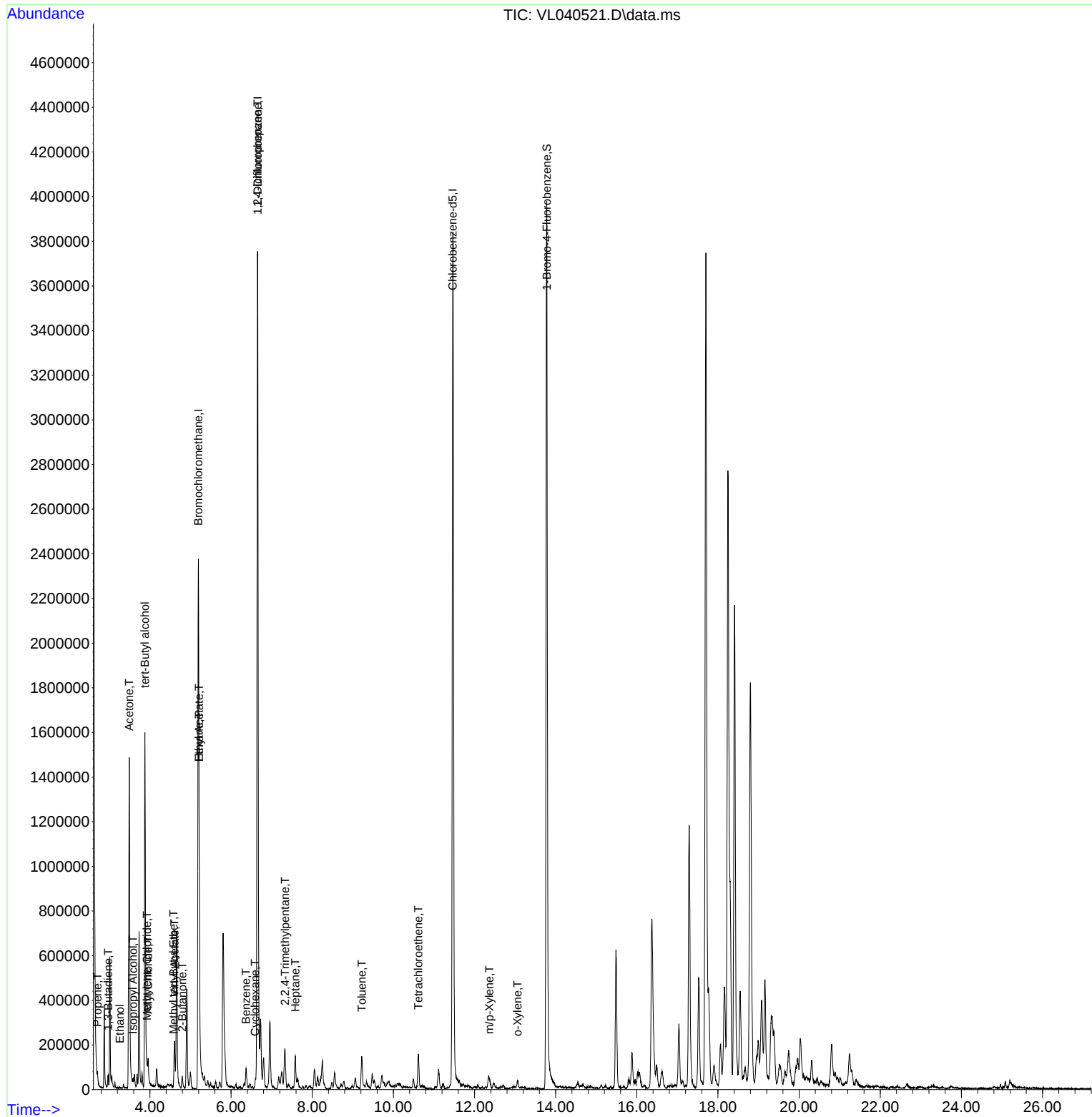
Internal Standards						
1) Bromochloromethane	5.192	49	1084329	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.651	114	2933736	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.465	117	2590807	10.000	ppbv	-0.01
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2007878	9.792	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%
Target Compounds						Qvalue
9) Propene	2.703	41	11877	0.202	ppbv	95
10) Heptane	7.584	43	55466	0.427	ppbv	100
13) Ethanol	3.259	45	2551	0.199	ppbv	72
15) Acetone	3.488	43	930254	7.453	ppbv #	78
16) 1,3-Butadiene	2.970	39	15801	0.251	ppbv #	14
17) tert-Butyl alcohol	3.877	59	1449523	11.228	ppbv	99
19) Isopropyl Alcohol	3.584	45	25323	0.353	ppbv #	37
20) Methylene Chloride	3.931	84	5333	0.100	ppbv	92
21) Allyl Chloride	3.954	41	16012	0.225	ppbv #	22
23) Vinyl Acetate	4.607	43	91853	0.772	ppbv #	1
25) Ethyl Acetate	5.211	43	134942	0.568	ppbv #	82
26) Hexane	5.211	57	185529	1.681	ppbv #	40
28) Methyl tert-Butyl Ether	4.584	73	3109	0.035	ppbv #	52
30) Cyclohexane	6.594	84	5355	0.058	ppbv #	1
34) 2-Butanone	4.796	43	63502	0.438	ppbv	95
36) Benzene	6.369	78	39303	0.166	ppbv	94
39) 1,2-Dichloropropane	6.655	63	709211	7.805	ppbv #	25
44) 2,2,4-Trimethylpentane	7.330	57	62281	0.164	ppbv #	1
52) Tetrachloroethene	10.619	164	36362	0.476	ppbv	92
53) Toluene	9.220	91	87674	0.342	ppbv	98
59) m/p-Xylene	12.365	91	18661	0.064	ppbv #	31
60) o-Xylene	13.056	91	13390	0.048	ppbv #	44

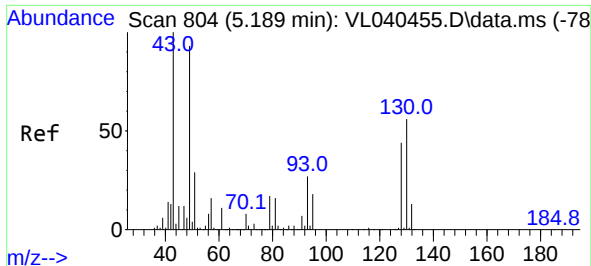
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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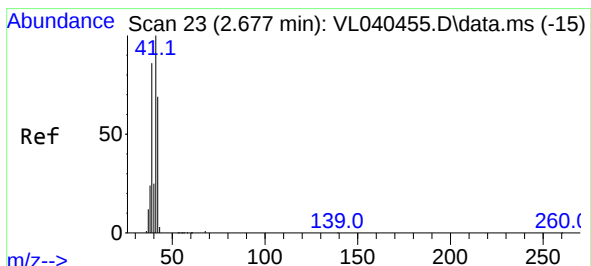
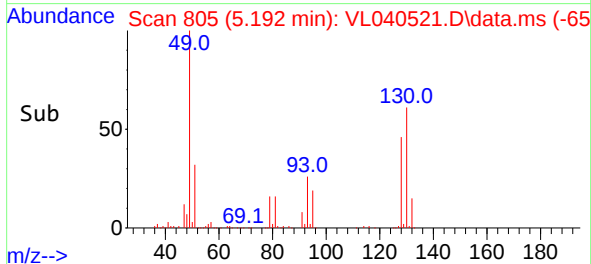
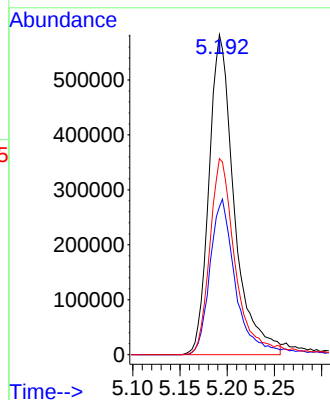
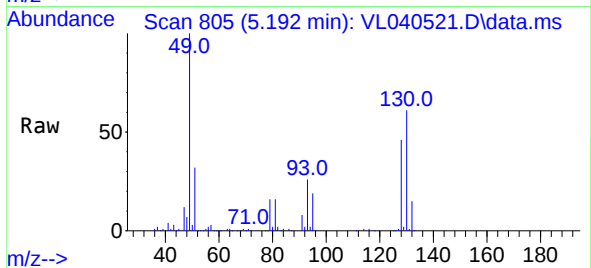




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. -0.010 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

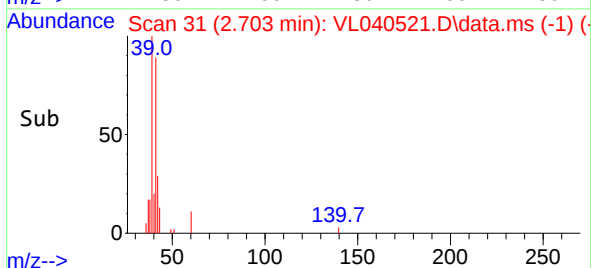
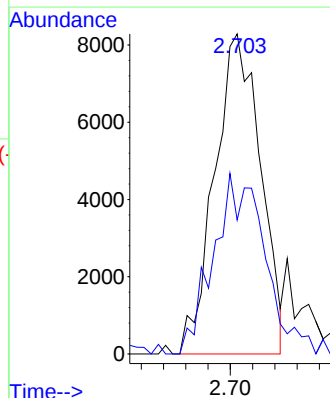
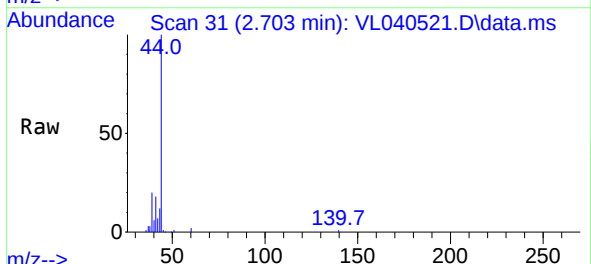
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

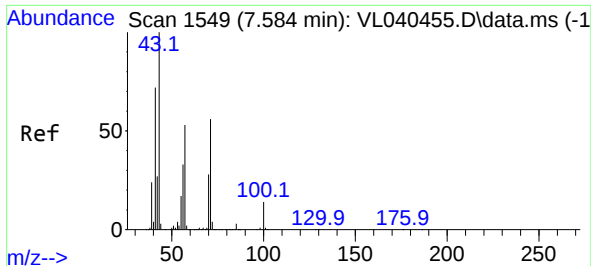
Tgt Ion: 49 Resp: 1084329
Ion Ratio Lower Upper
49 100
128 50.6 25.1 75.4
130 64.5 31.6 94.7



#9
Propene
Concen: 0.202 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 41 Resp: 11877
Ion Ratio Lower Upper
41 100
42 64.4 55.0 82.6





#10

Heptane

Concen: 0.427 ppbv

RT: 7.584 min Scan# 1

Delta R.T. -0.007 min

Lab File: VL040521.D

Acq: 11 Jul 2023 00:40

Instrument :

MSVOA_L

ClientSampleId :

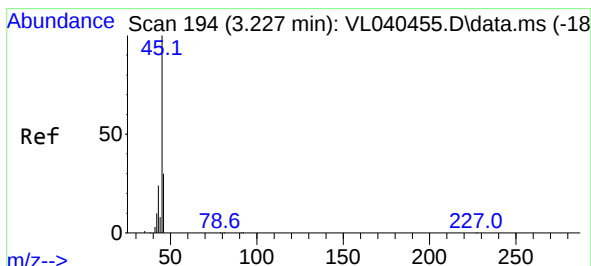
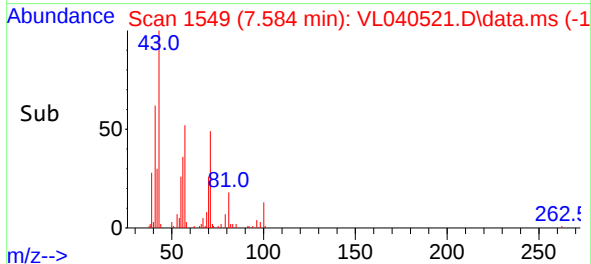
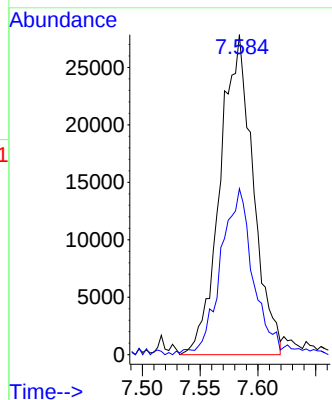
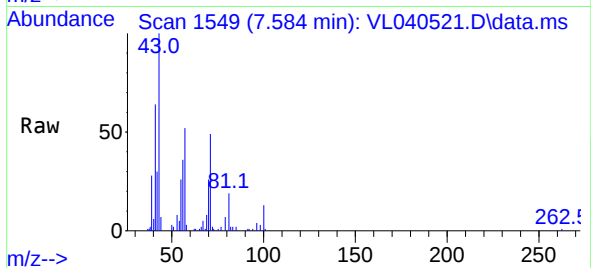
SV1DL

Tgt Ion: 43 Resp: 55466

Ion Ratio Lower Upper

43 100

57 53.2 42.5 63.7



#13

Ethanol

Concen: 0.199 ppbv

RT: 3.259 min Scan# 204

Delta R.T. 0.013 min

Lab File: VL040521.D

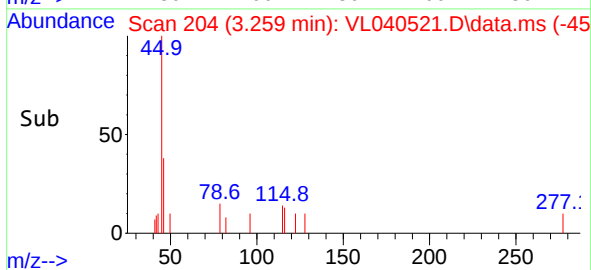
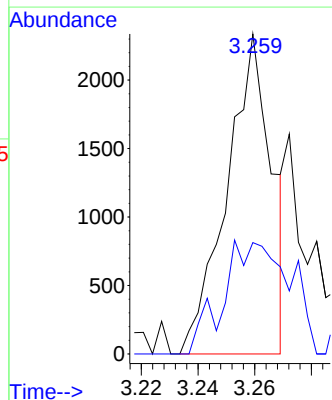
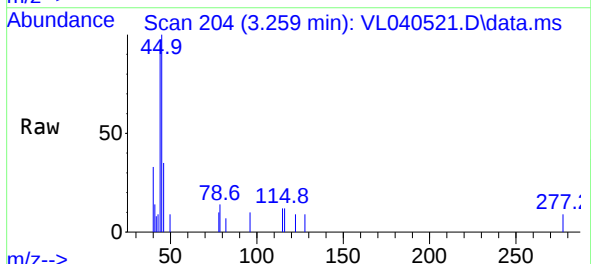
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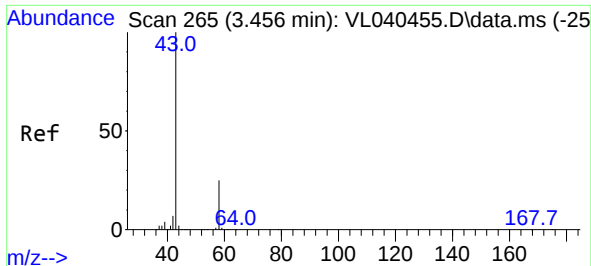
Tgt Ion: 45 Resp: 2551

Ion Ratio Lower Upper

45 100

46 55.0 15.3 61.1

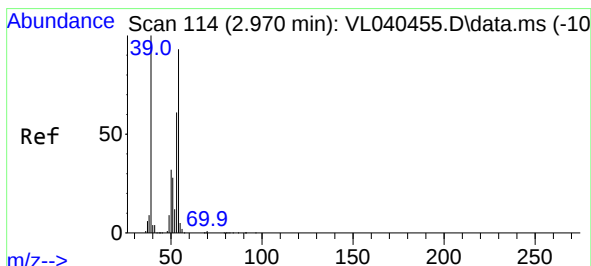
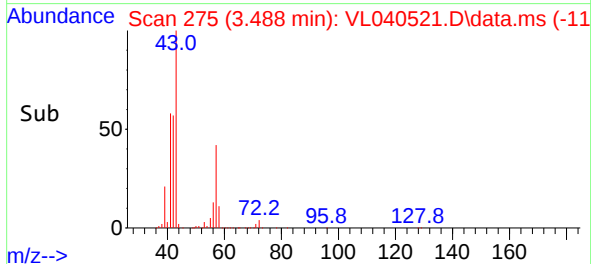
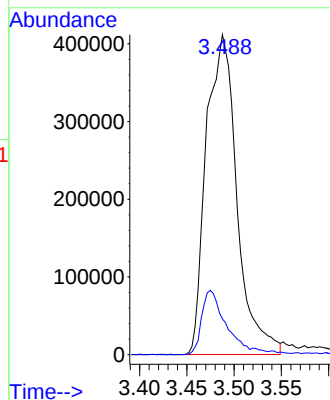
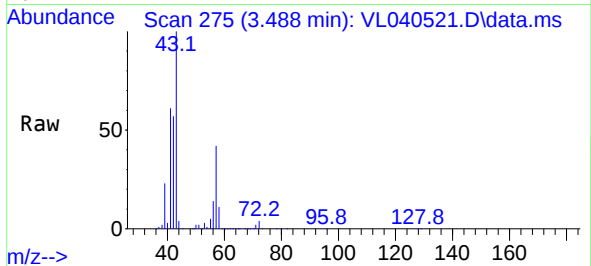




#15
Acetone
Concen: 7.453 ppbv
RT: 3.488 min Scan# 21
Delta R.T. 0.013 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

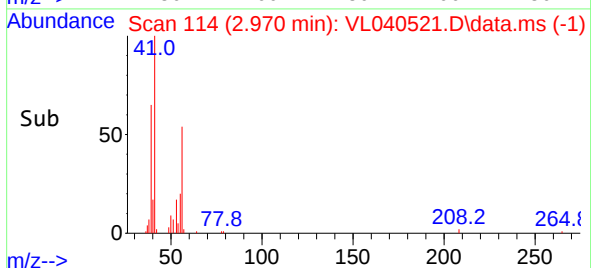
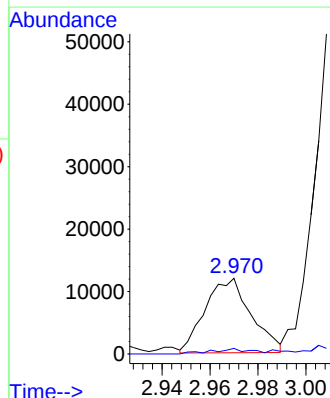
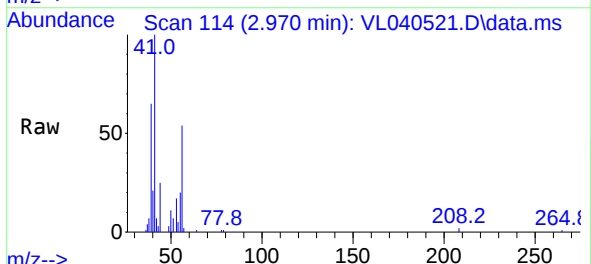
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

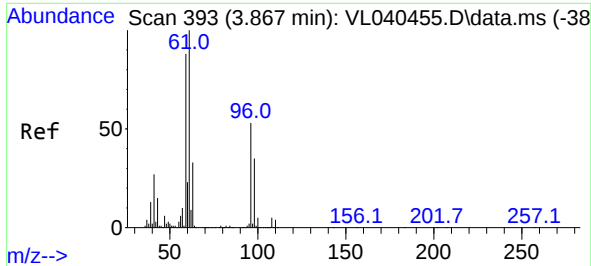
Tgt Ion: 43 Resp: 930254
Ion Ratio Lower Upper
43 100
58 16.9 22.9 34.3#



#16
1,3-Butadiene
Concen: 0.251 ppbv
RT: 2.970 min Scan# 114
Delta R.T. -0.023 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 39 Resp: 15801
Ion Ratio Lower Upper
39 100
54 6.1 66.6 100.0#

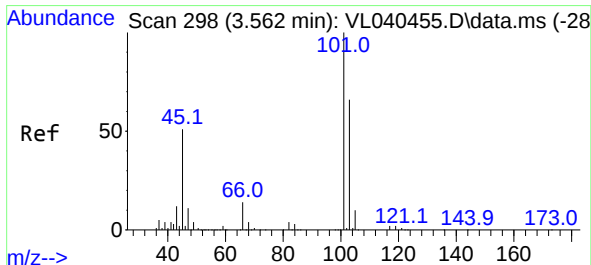
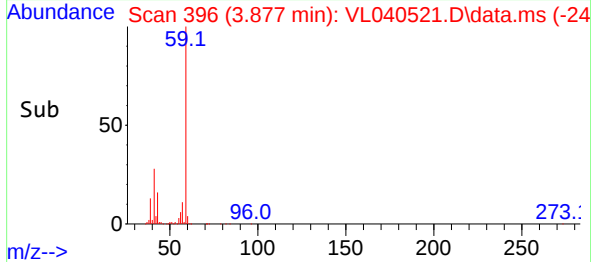
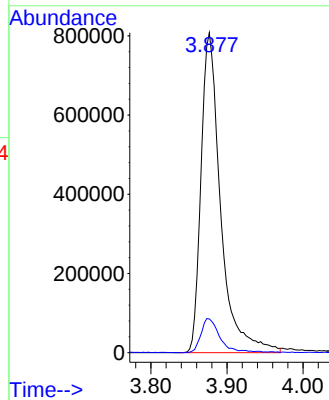
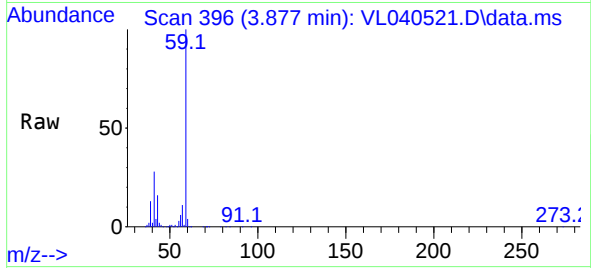




#17
tert-Butyl alcohol
Concen: 11.228 ppbv
RT: 3.877 min Scan# 393
Delta R.T. -0.007 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

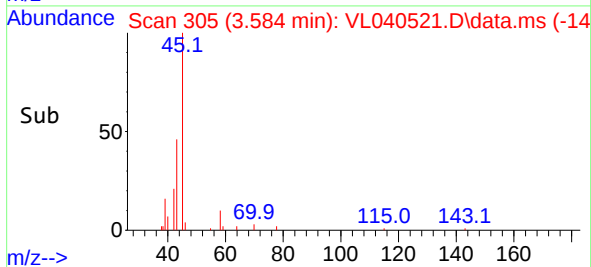
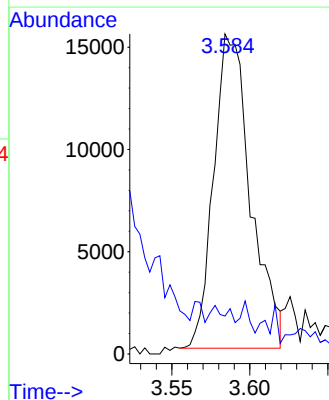
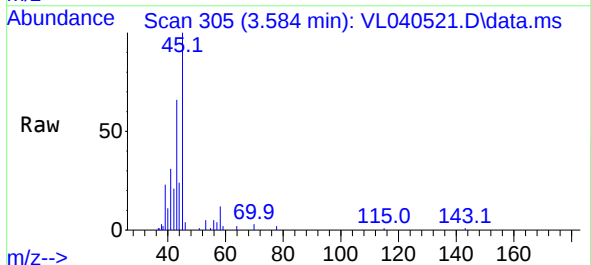
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

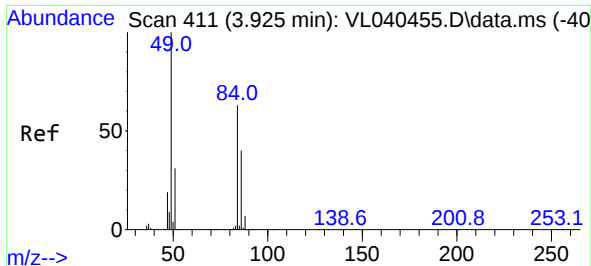
Tgt Ion: 59 Resp: 1449523
Ion Ratio Lower Upper
59 100
57 10.6 8.7 13.1



#19
Isopropyl Alcohol
Concen: 0.353 ppbv
RT: 3.584 min Scan# 305
Delta R.T. 0.003 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 45 Resp: 25323
Ion Ratio Lower Upper
45 100
58 25.9 1.1 1.7#



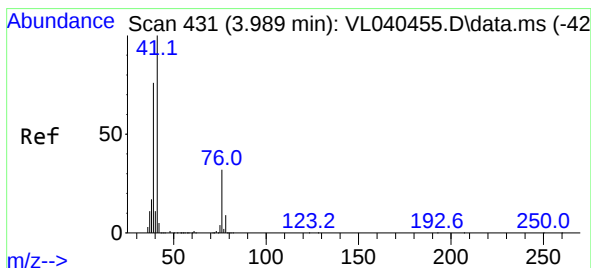
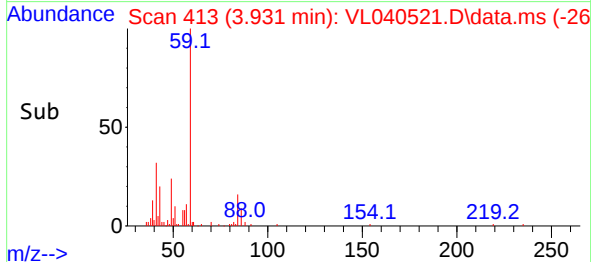
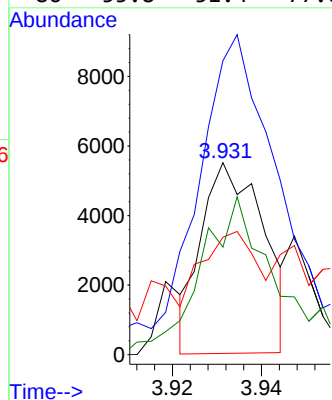
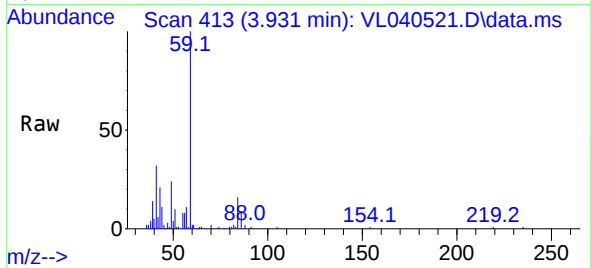


#20
Methylene Chloride
Concen: 0.100 ppbv
RT: 3.931 min Scan# 411
Delta R.T. -0.010 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 84 Resp: 5333

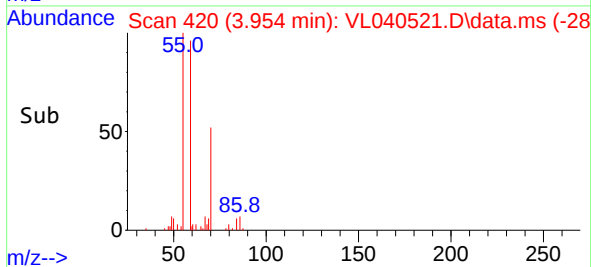
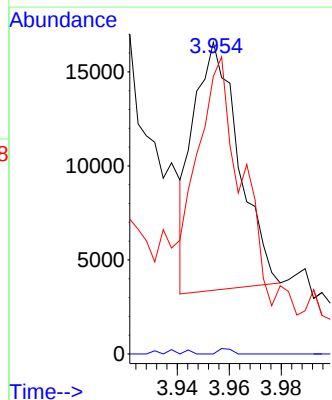
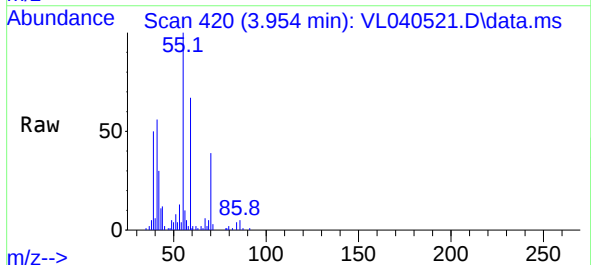
Ion	Ratio	Lower	Upper
84	100		
49	144.6	123.4	185.2
51	52.8	38.3	57.5
86	55.8	51.4	77.0

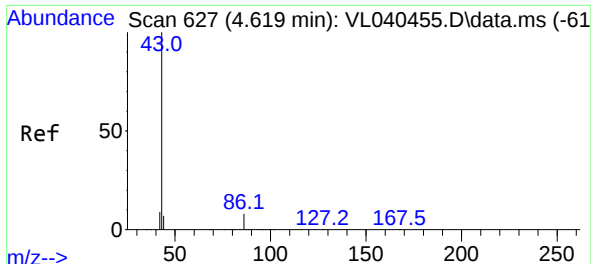


#21
Allyl Chloride
Concen: 0.225 ppbv
RT: 3.954 min Scan# 420
Delta R.T. -0.052 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 41 Resp: 16012

Ion	Ratio	Lower	Upper
41	100		
76	0.6	24.8	37.2#
39	151.1	60.6	91.0#



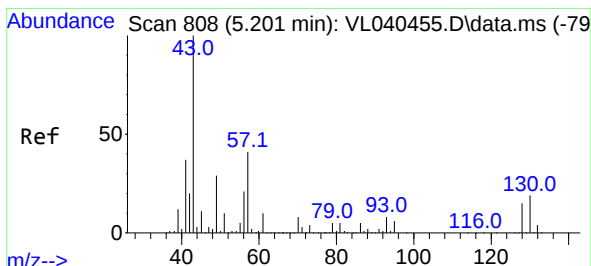
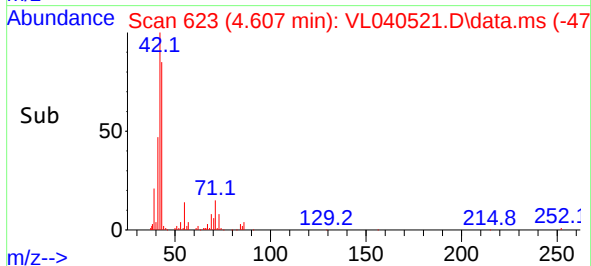
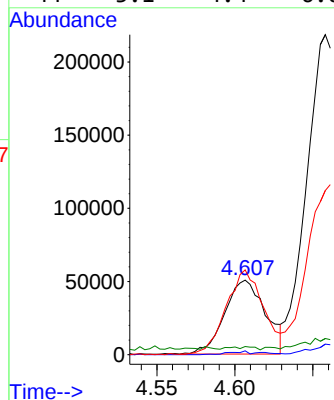
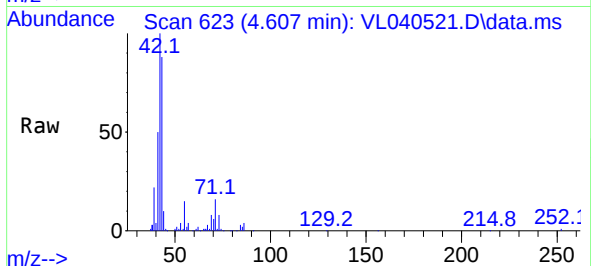


#23
 Vinyl Acetate
 Concen: 0.772 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. -0.029 min
 Lab File: VL040521.D
 Acq: 11 Jul 2023 00:40

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion: 43 Resp: 91853

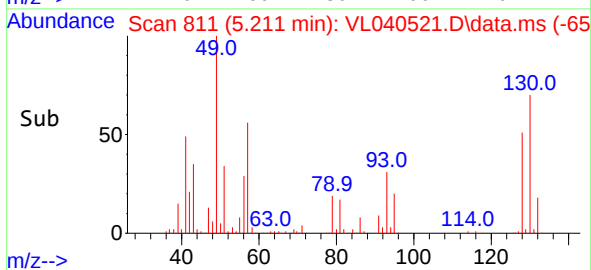
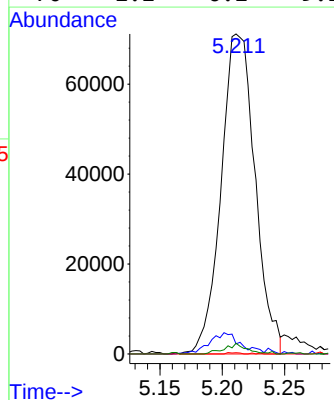
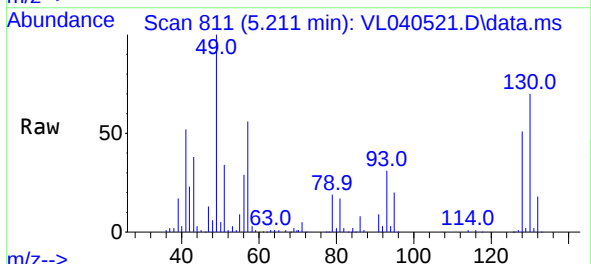
Ion	Ratio	Lower	Upper
43	100		
86	5.2	5.6	8.4#
42	114.4	7.4	11.2#
44	3.1	4.4	6.6#

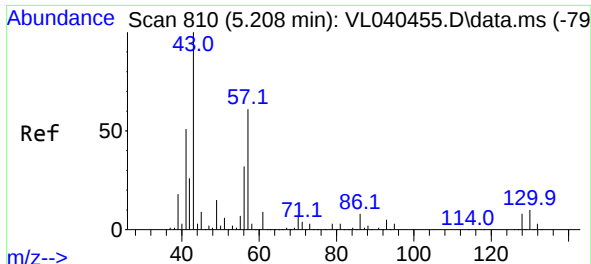


#25
 Ethyl Acetate
 Concen: 0.568 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. -0.000 min
 Lab File: VL040521.D
 Acq: 11 Jul 2023 00:40

Tgt Ion: 43 Resp: 134942

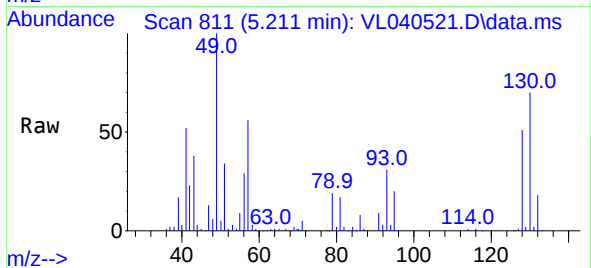
Ion	Ratio	Lower	Upper
43	100		
45	6.5	8.2	12.4#
61	0.2	8.3	12.5#
70	2.2	6.2	9.2#



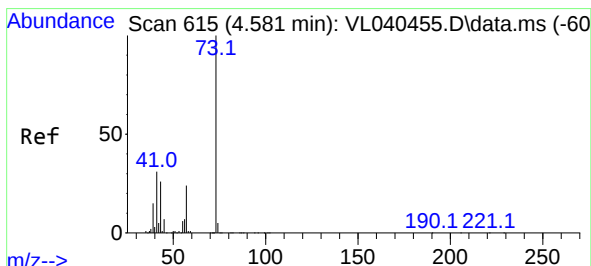
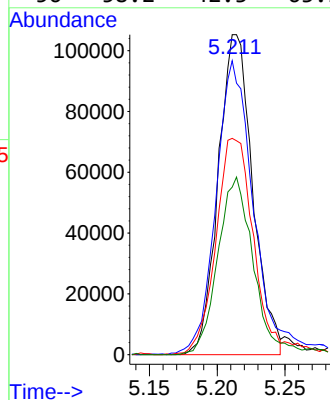
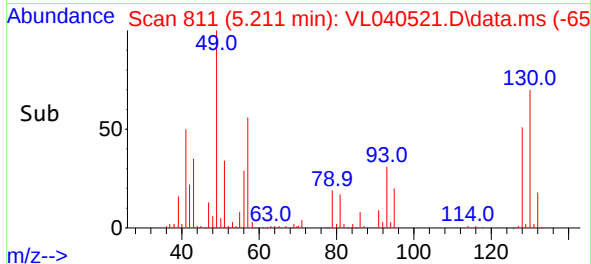


#26
Hexane
Concen: 1.681 ppbv
RT: 5.211 min Scan# 811
Delta R.T. -0.010 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

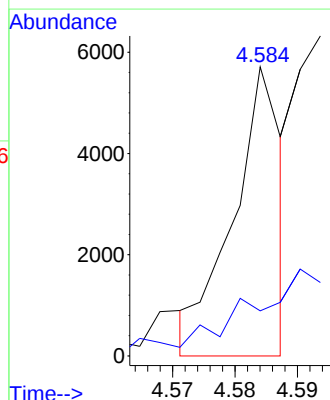
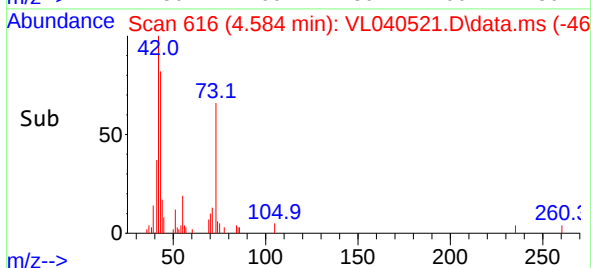
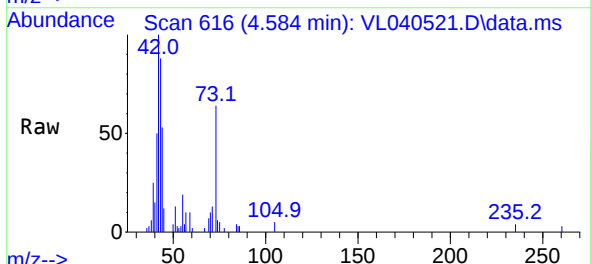


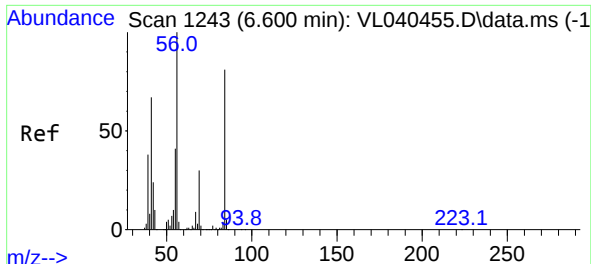
Tgt Ion: 57 Resp: 185529
Ion Ratio Lower Upper
57 100
41 102.0 69.5 104.3
43 75.6 177.1 265.7#
56 58.2 42.3 63.5



#28
Methyl tert-Butyl Ether
Concen: 0.035 ppbv
RT: 4.584 min Scan# 616
Delta R.T. -0.010 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 73 Resp: 3109
Ion Ratio Lower Upper
73 100
57 0.0 18.8 28.2#

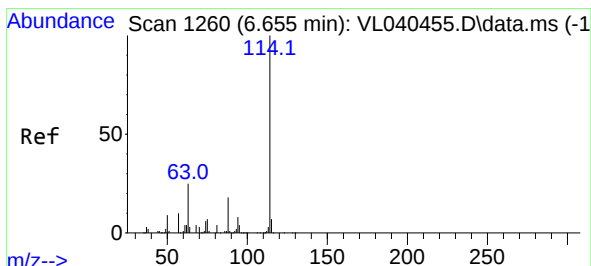
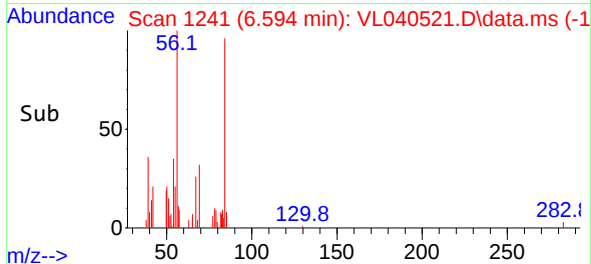
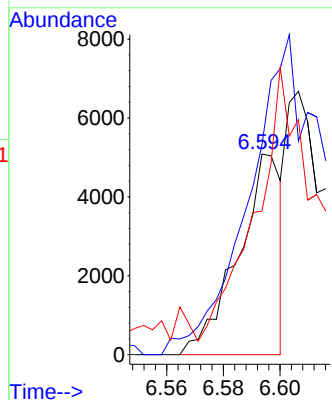
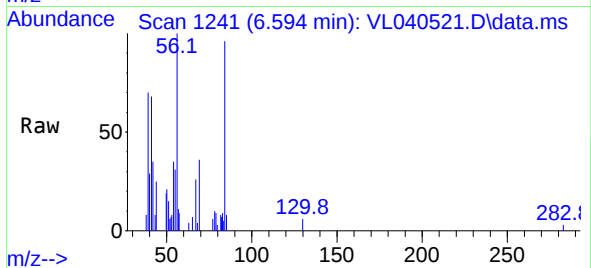




#30
Cyclohexane
Concen: 0.058 ppbv
RT: 6.594 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

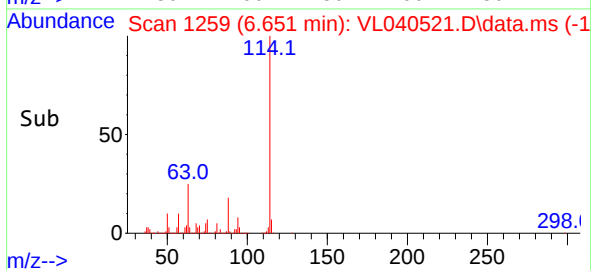
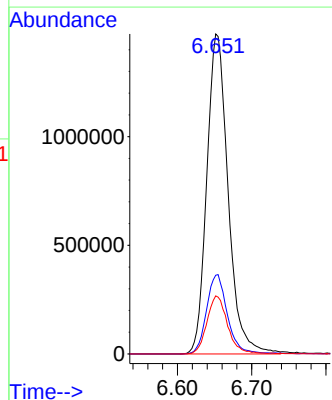
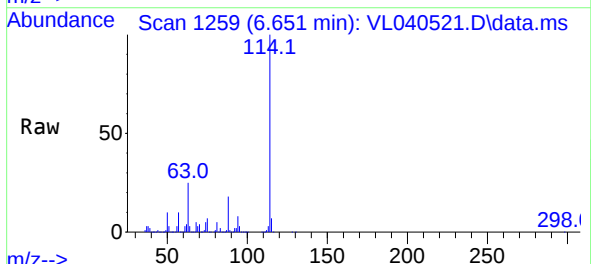
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

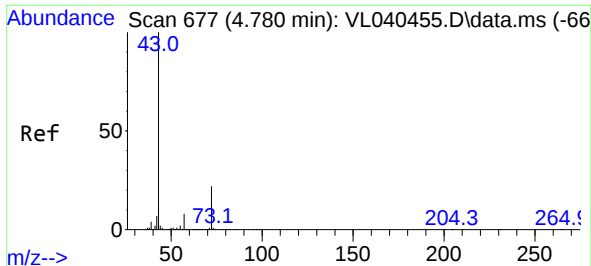
Tgt Ion: 84 Resp: 5355
Ion Ratio Lower Upper
84 100
56 0.0 108.7 163.1#
41 0.0 64.5 96.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.651 min Scan# 1259
Delta R.T. -0.013 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 114 Resp: 2933736
Ion Ratio Lower Upper
114 100
63 24.5 19.6 29.4
88 17.7 14.2 21.2

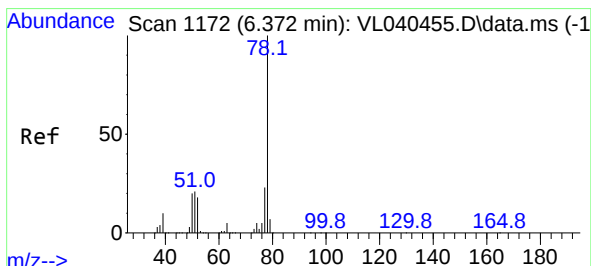
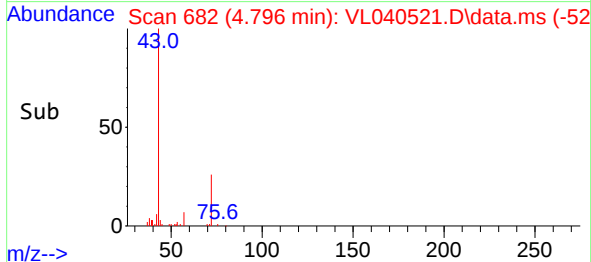
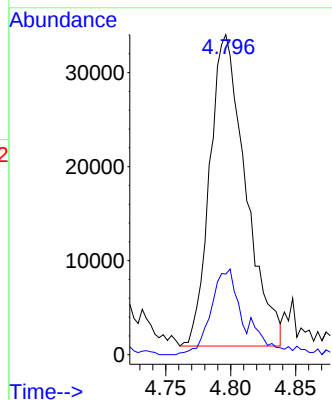
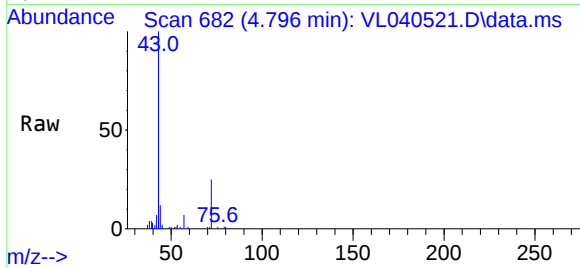




#34
2-Butanone
Concen: 0.438 ppbv
RT: 4.796 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

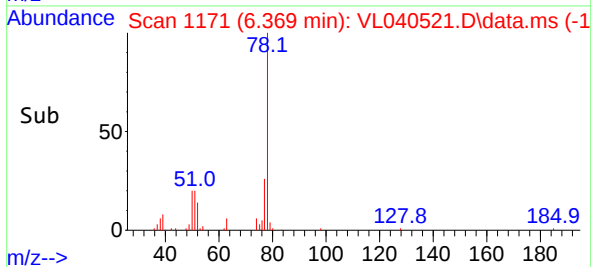
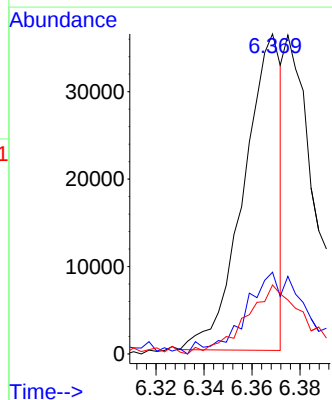
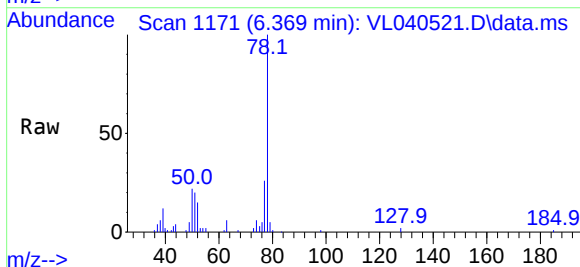
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

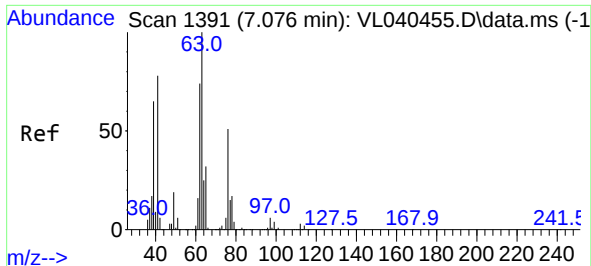
Tgt Ion: 43 Resp: 63502
Ion Ratio Lower Upper
43 100
72 26.5 19.1 28.7



#36
Benzene
Concen: 0.166 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. -0.013 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 78 Resp: 39303
Ion Ratio Lower Upper
78 100
77 24.2 17.4 26.0
50 21.2 14.4 21.6





#39

1,2-Dichloropropane

Concen: 7.805 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.428 min

Lab File: VL040521.D

Acq: 11 Jul 2023 00:40

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

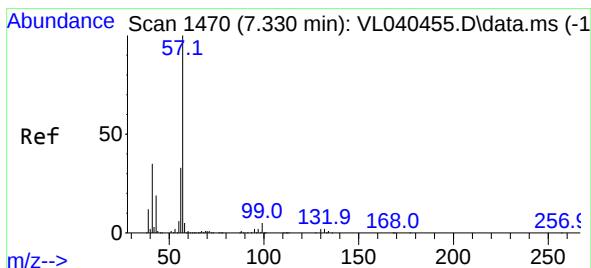
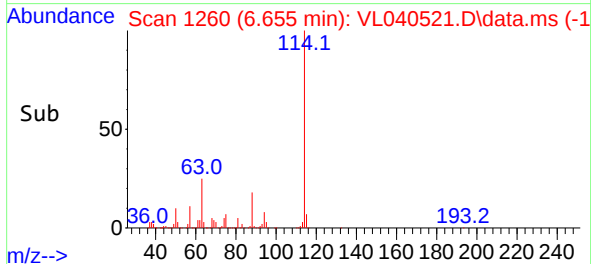
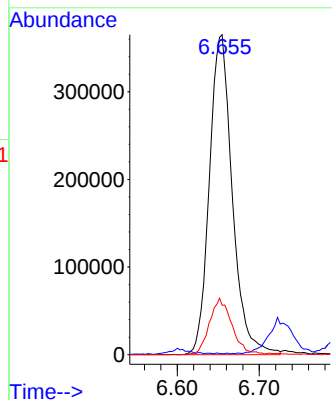
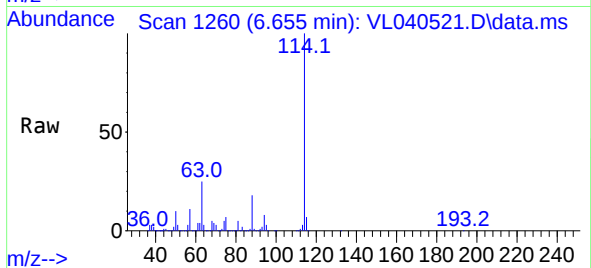
Tgt Ion: 63 Resp: 709211

Ion Ratio Lower Upper

63 100

41 0.0 54.3 81.5#

62 15.4 55.6 83.4#



#44

2,2,4-Trimethylpentane

Concen: 0.164 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. -0.007 min

Lab File: VL040521.D

Acq: 11 Jul 2023 00:40

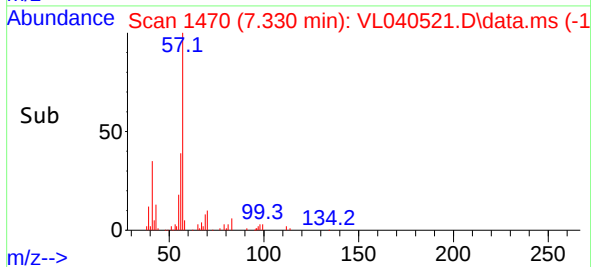
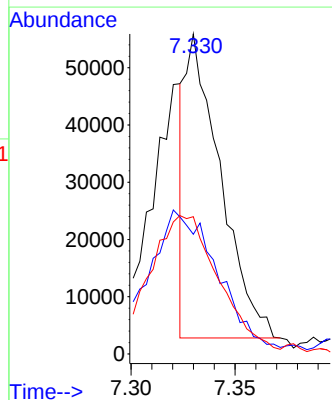
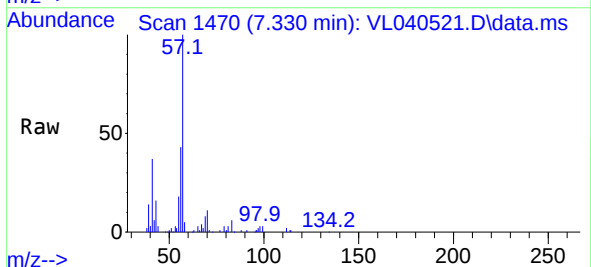
Tgt Ion: 57 Resp: 62281

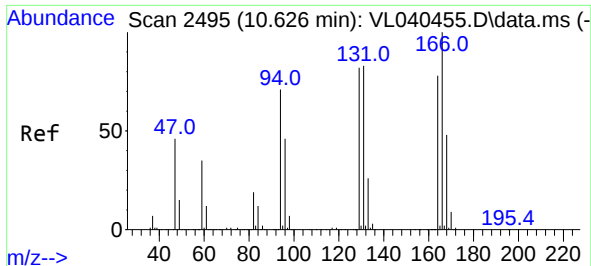
Ion Ratio Lower Upper

57 100

41 97.1 25.5 38.3#

56 95.5 25.1 37.7#

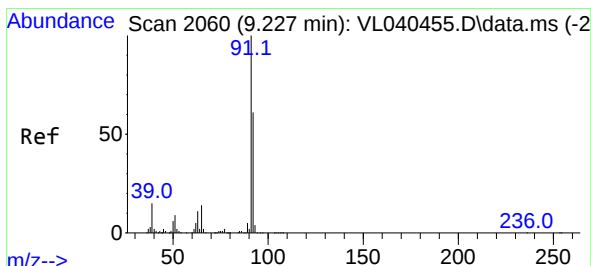
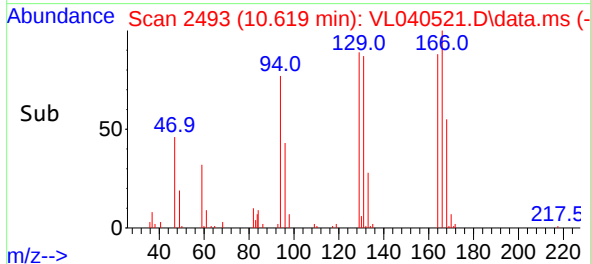
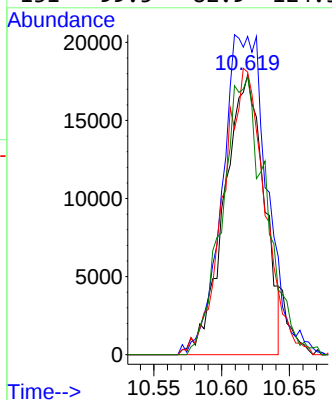
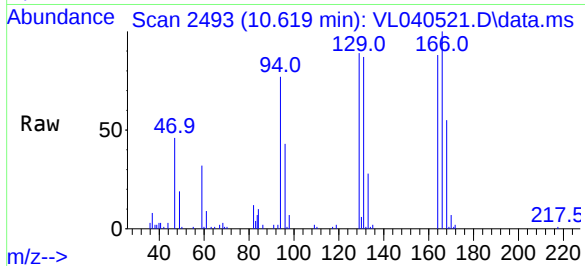




#52
Tetrachloroethene
Concen: 0.476 ppbv
RT: 10.619 min Scan# 2493
Delta R.T. -0.007 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

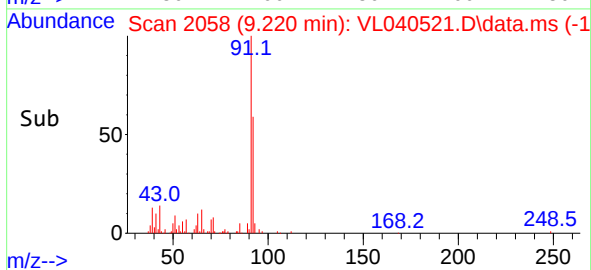
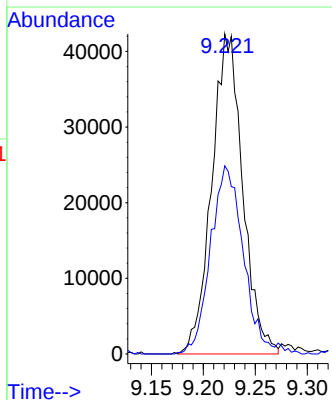
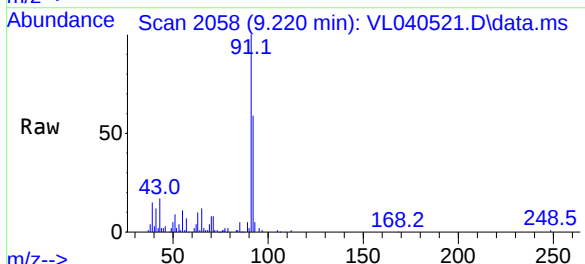
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

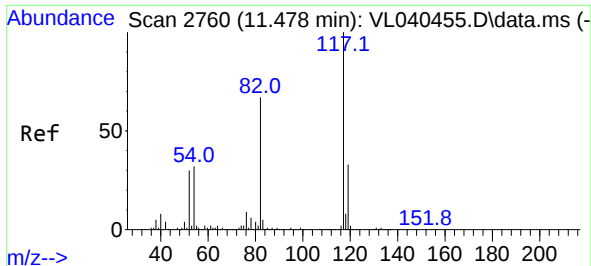
Tgt Ion:164 Resp: 36362
Ion Ratio Lower Upper
164 100
166 113.8 103.9 155.9
129 101.0 84.6 126.8
131 99.5 82.9 124.3



#53
Toluene
Concen: 0.342 ppbv
RT: 9.220 min Scan# 2058
Delta R.T. -0.010 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 91 Resp: 87674
Ion Ratio Lower Upper
91 100
92 62.6 49.1 73.7

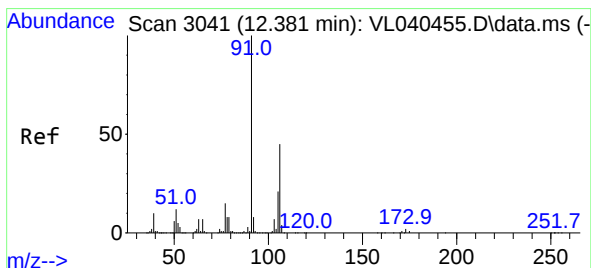
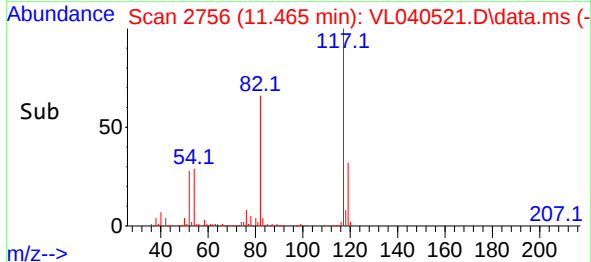
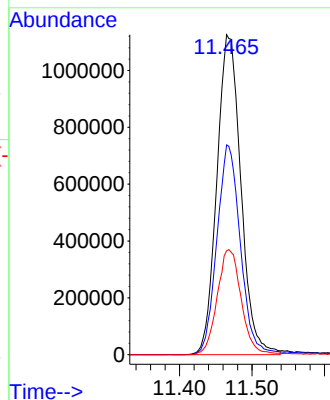
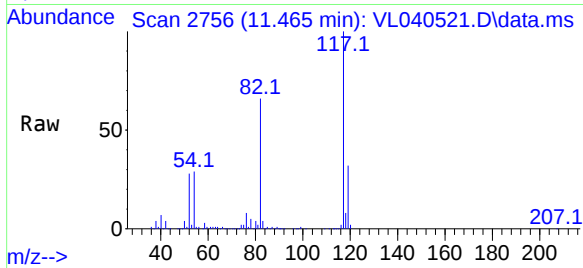




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. -0.013 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

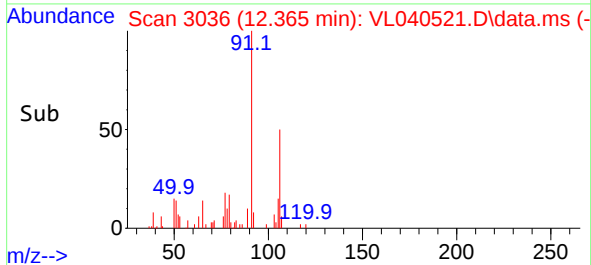
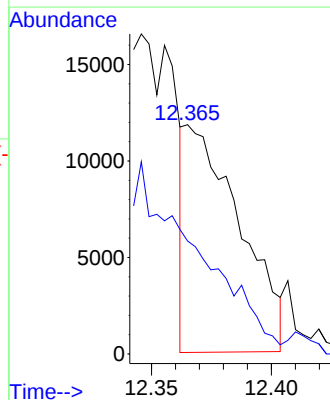
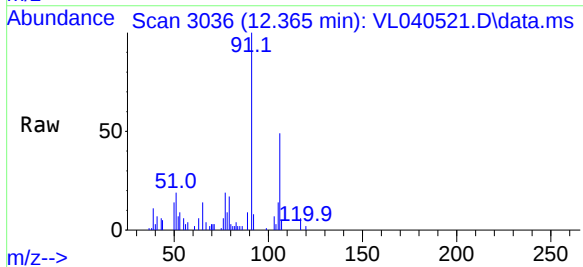
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

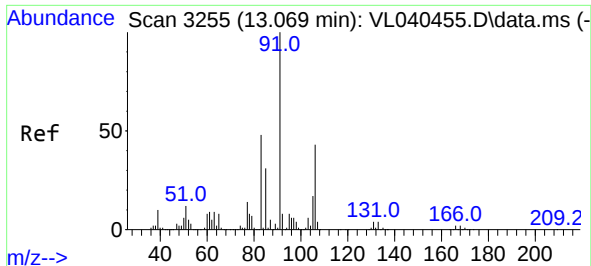
Tgt Ion:117 Resp: 2590807
Ion Ratio Lower Upper
117 100
82 65.0 50.2 75.4
119 33.2 26.9 40.3



#59
m/p-Xylene
Concen: 0.064 ppbv
RT: 12.365 min Scan# 3036
Delta R.T. -0.019 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 91 Resp: 18661
Ion Ratio Lower Upper
91 100
106 0.0 35.9 53.9#

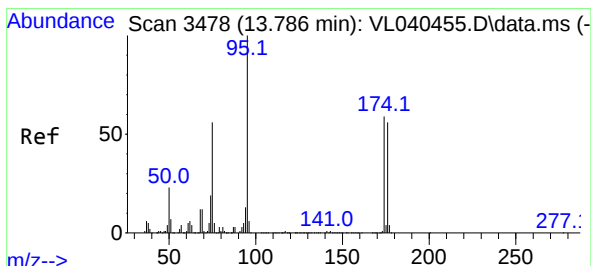
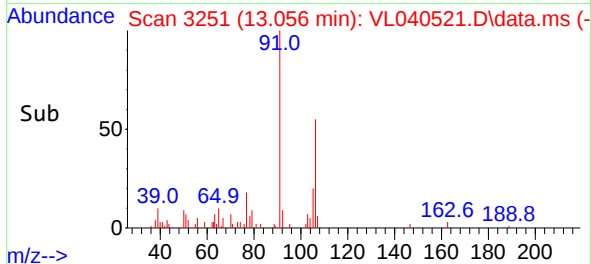
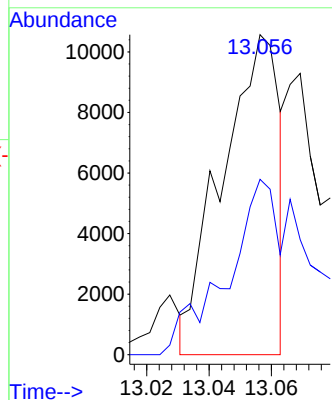
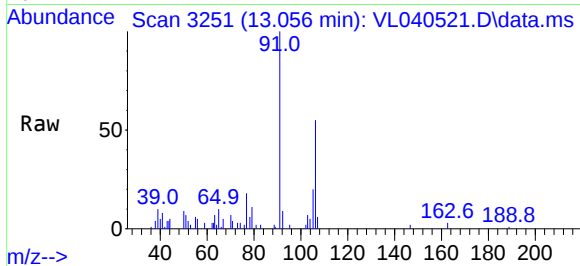




#60
o-Xylene
Concen: 0.048 ppbv
RT: 13.056 min Scan# 31
Delta R.T. -0.013 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion: 91 Resp: 13390
Ion Ratio Lower Upper
91 100
106 81.8 22.7 68.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.792 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. -0.003 min
Lab File: VL040521.D
Acq: 11 Jul 2023 00:40

Tgt Ion: 95 Resp: 2007878
Ion Ratio Lower Upper
95 100
174 62.7 50.6 75.8
175 4.4 3.7 5.5

