

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061523\
 Data File : VL040475.D
 Acq On : 15 Jun 2023 20:20
 Operator : SY/MD
 Sample : 03250-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL

Quant Time: Jun 16 05:40:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jun 06 06:22:12 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.201	49	1154810	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.661	114	3003552	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2749295	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	2360624	10.403	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.000%

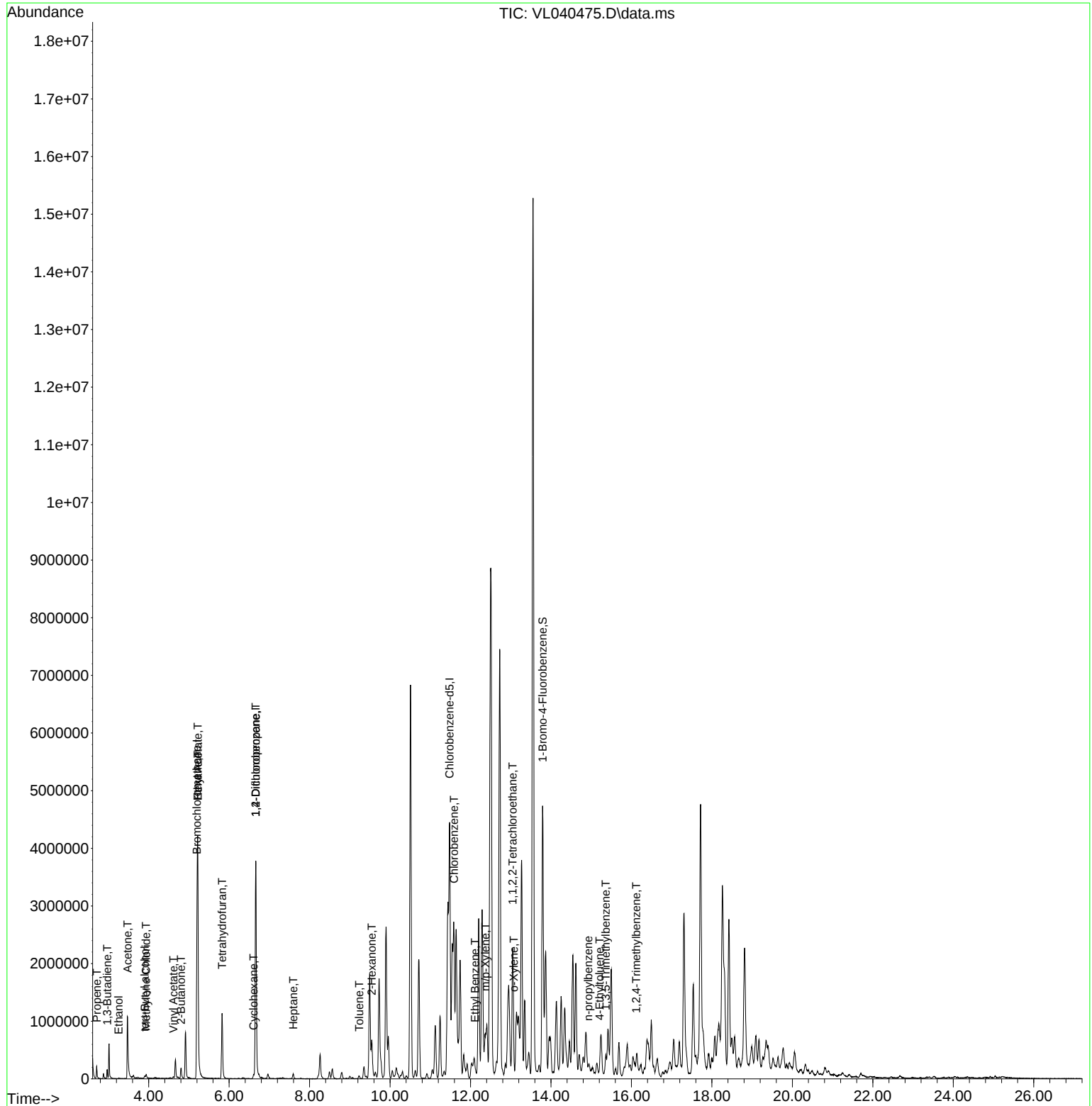
Target Compounds					Qvalue	
9) Propene	2.710	41	41458	0.711	ppbv #	75
10) Heptane	7.594	43	20141	0.153	ppbv #	50
13) Ethanol	3.256	45	3748	0.310	ppbv #	49
15) Acetone	3.475	43	1207158	8.667	ppbv	91
16) 1,3-Butadiene	2.970	39	40026	0.590	ppbv #	15
17) tert-Butyl alcohol	3.906	59	20025	0.175	ppbv #	59
20) Methylene Chloride	3.935	84	9884	0.166	ppbv #	89
23) Vinyl Acetate	4.616	43	4636	0.034	ppbv #	9
25) Ethyl Acetate	5.221	43	1026929	4.069	ppbv #	76
26) Hexane	5.221	57	1545410	12.931	ppbv #	40
30) Cyclohexane	6.610	84	23997	0.249	ppbv #	89
34) 2-Butanone	4.803	43	225997	1.560	ppbv	98
39) 1,2-Dichloropropane	6.661	63	728167	7.906	ppbv #	21
41) Tetrahydrofuran	5.825	42	143828	1.817	ppbv #	34
51) 2-Hexanone	9.545	43	431299	3.203	ppbv #	44
53) Toluene	9.233	91	12960	0.052	ppbv #	54
57) Chlorobenzene	11.587	112	358964	1.727	ppbv #	31
58) Ethyl Benzene	12.114	91	11342	0.034	ppbv	100
59) m/p-Xylene	12.368	91	22899	0.075	ppbv #	33
60) o-Xylene	13.076	91	40004	0.138	ppbv	74
63) 1,1,2,2-Tetrachloroethane	13.050	83	73025	0.388	ppbv #	24
64) n-propylbenzene	14.928	120	3676	0.034	ppbv #	1
72) 4-Ethyltoluene	15.208	105	44436	0.136	ppbv #	95
73) 1,3,5-Trimethylbenzene	15.365	105	39034	0.135	ppbv #	77
74) 1,2,4-Trimethylbenzene	16.121	105	114031	0.335	ppbv #	71

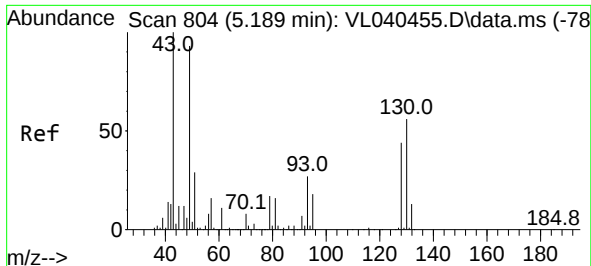
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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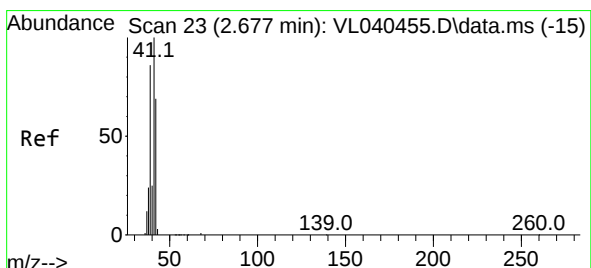
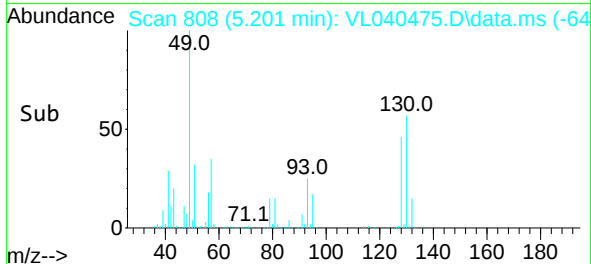
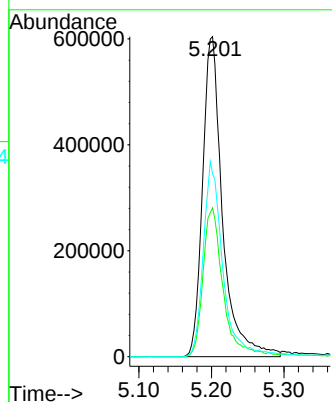
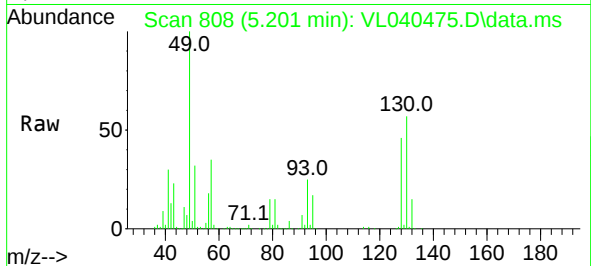




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.201 min Scan# 80
Delta R.T. 0.012 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

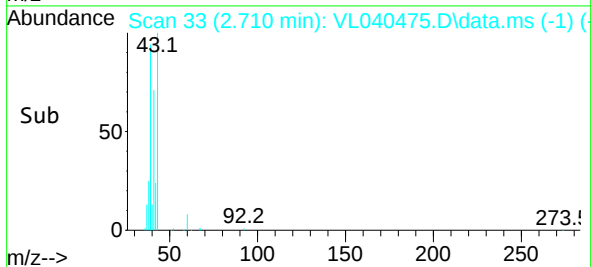
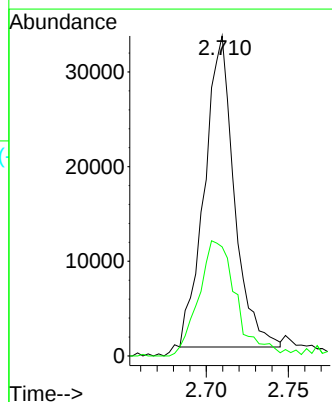
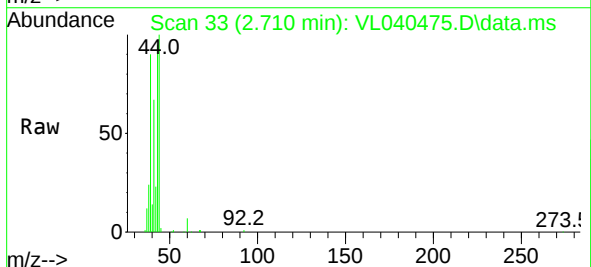
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

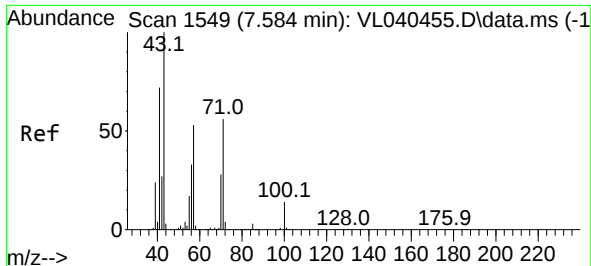
Tgt Ion: 49 Resp: 1154810
Ion Ratio Lower Upper
49 100
128 48.0 24.7 74.1
130 60.4 31.4 94.2



#9
Propene
Concen: 0.711 ppbv
RT: 2.710 min Scan# 33
Delta R.T. 0.032 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 41 Resp: 41458
Ion Ratio Lower Upper
41 100
42 49.6 56.2 84.2#





#10

Heptane

Concen: 0.153 ppbv

RT: 7.594 min Scan# 1

Delta R.T. 0.010 min

Lab File: VL040475.D

Acq: 15 Jun 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

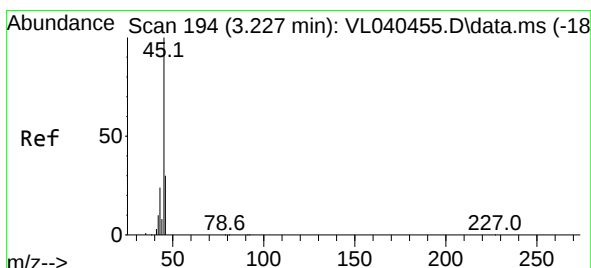
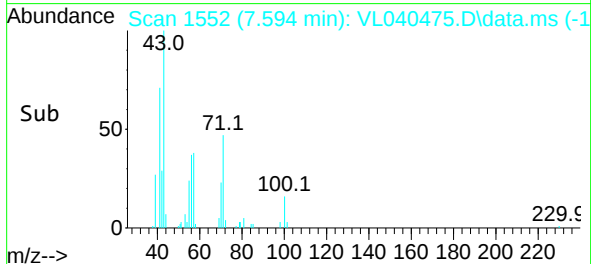
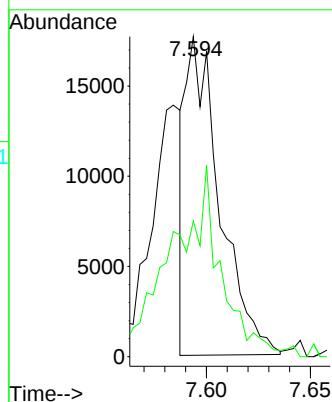
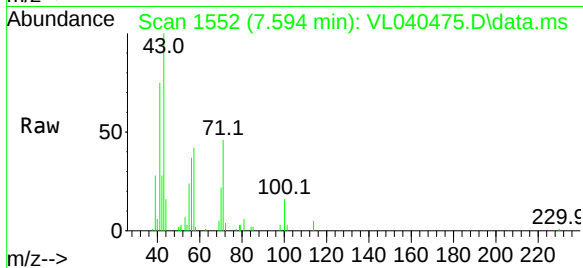
SVP-03DL

Tgt Ion: 43 Resp: 20141

Ion Ratio Lower Upper

43 100

57 88.3 42.5 63.7#



#13

Ethanol

Concen: 0.310 ppbv

RT: 3.256 min Scan# 203

Delta R.T. 0.029 min

Lab File: VL040475.D

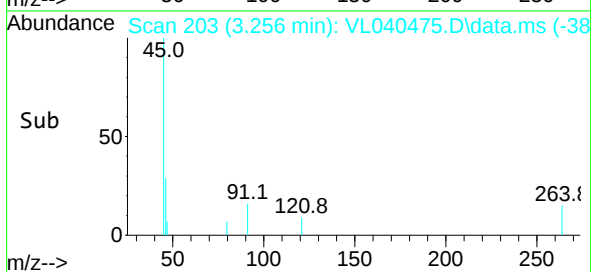
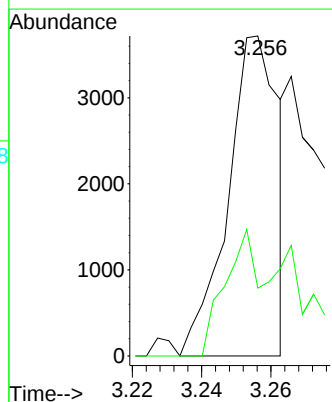
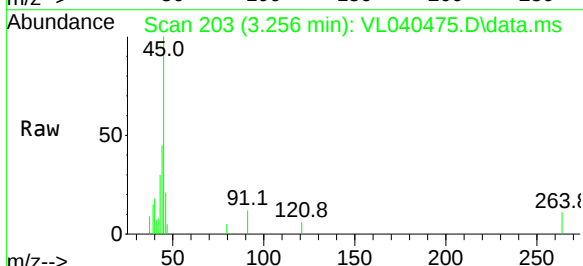
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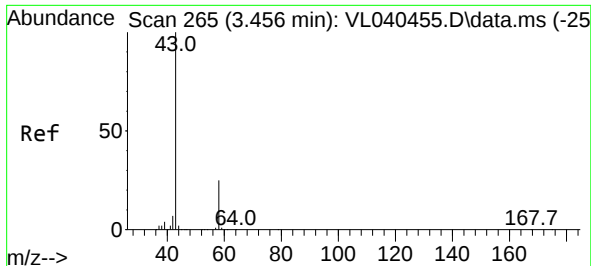
Tgt Ion: 45 Resp: 3748

Ion Ratio Lower Upper

45 100

46 66.4 14.5 58.1#





#15

Acetone

Concen: 8.667 ppbv

RT: 3.475 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL040475.D

Acq: 15 Jun 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

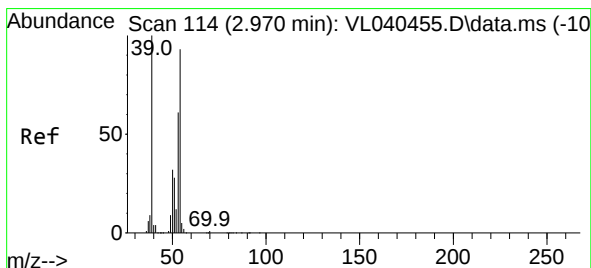
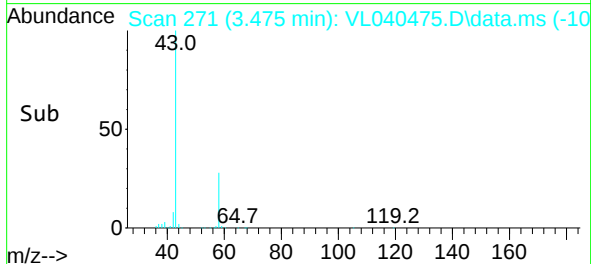
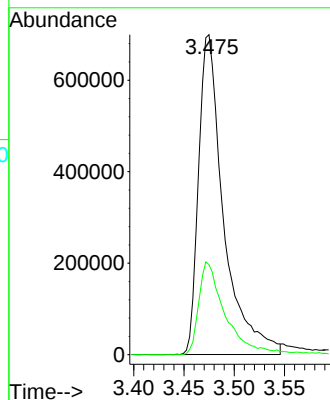
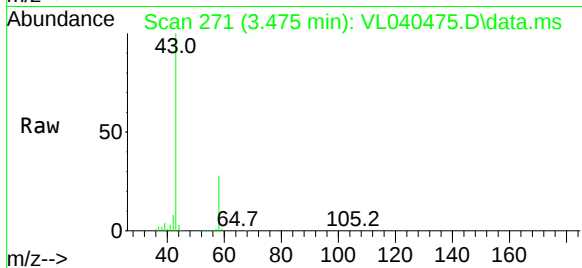
SVP-03DL

Tgt Ion: 43 Resp: 1207158

Ion Ratio Lower Upper

43 100

58 31.8 21.6 32.4



#16

1,3-Butadiene

Concen: 0.590 ppbv

RT: 2.970 min Scan# 114

Delta R.T. 0.000 min

Lab File: VL040475.D

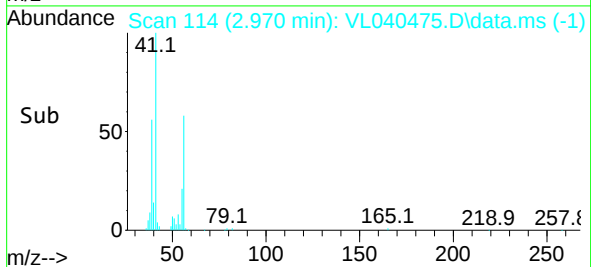
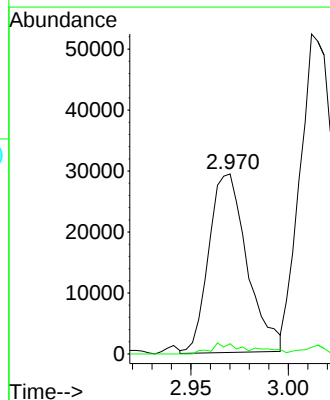
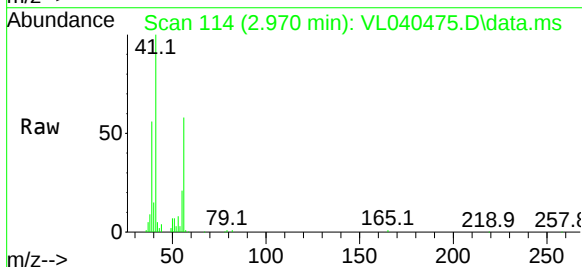
Acq: 15 Jun 2023 20:20

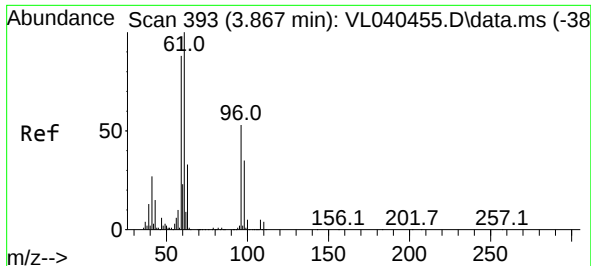
Tgt Ion: 39 Resp: 40026

Ion Ratio Lower Upper

39 100

54 6.5 66.9 100.3#

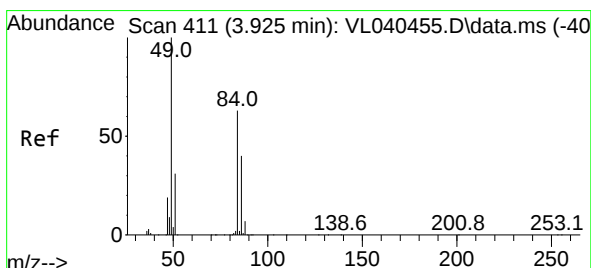
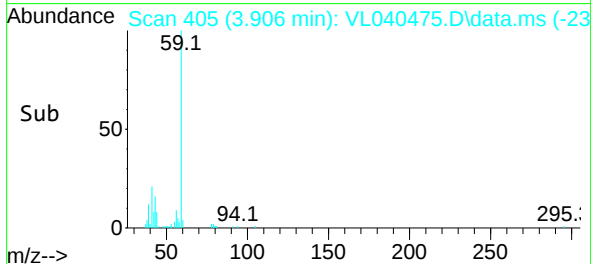
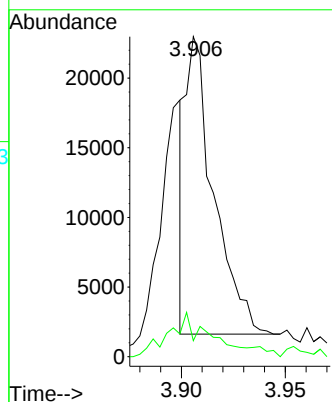
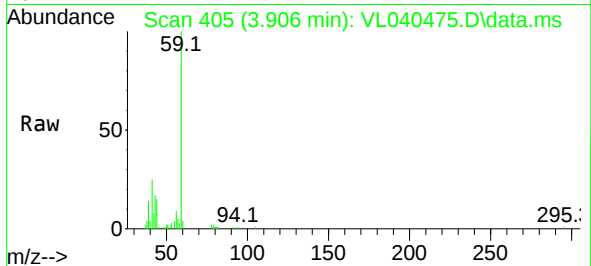




#17
tert-Butyl alcohol
Concen: 0.175 ppbv
RT: 3.906 min Scan# 410
Delta R.T. 0.039 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

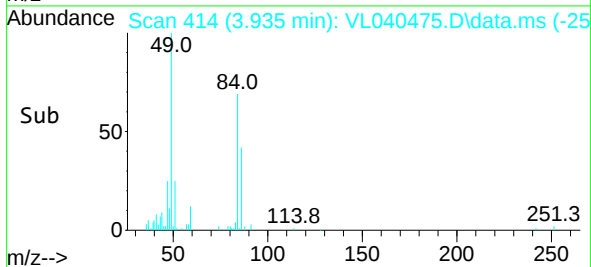
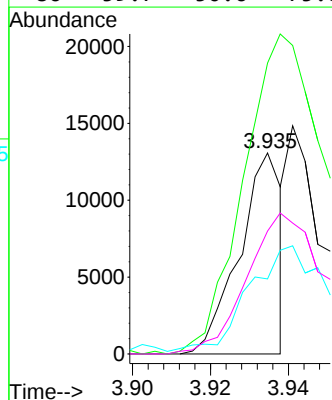
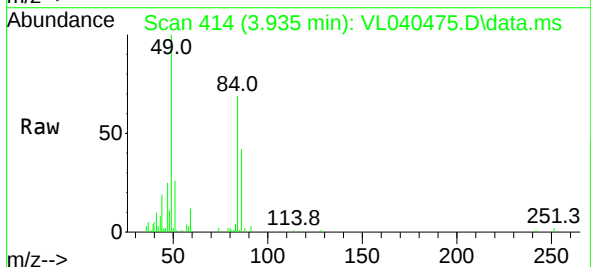
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

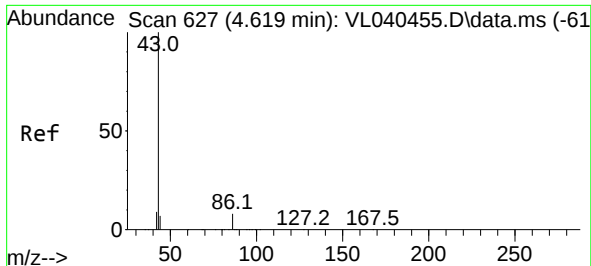
Tgt Ion: 59 Resp: 20025
Ion Ratio Lower Upper
59 100
57 26.7 8.8 13.2#



#20
Methylene Chloride
Concen: 0.166 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.010 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 84 Resp: 9884
Ion Ratio Lower Upper
84 100
49 143.4 126.2 189.2
51 36.4 38.7 58.1#
86 59.7 50.6 75.8

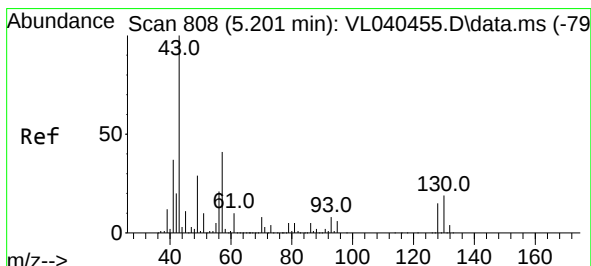
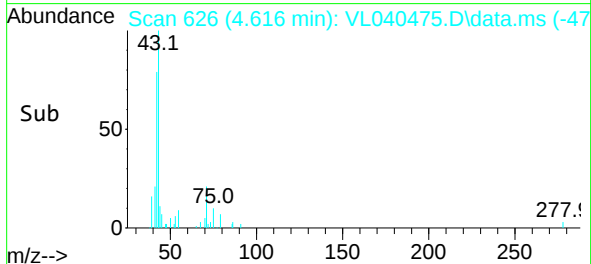
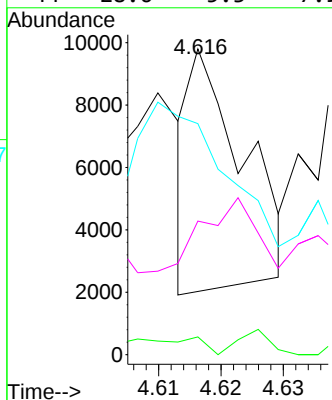
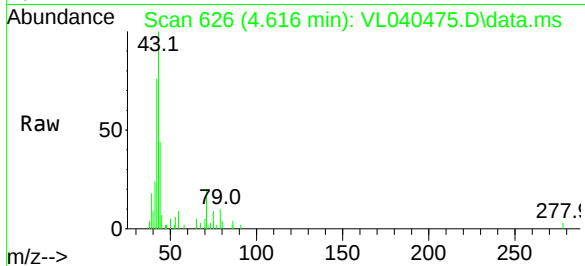




#23
 Vinyl Acetate
 Concen: 0.034 ppbv
 RT: 4.616 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL040475.D
 Acq: 15 Jun 2023 20:20

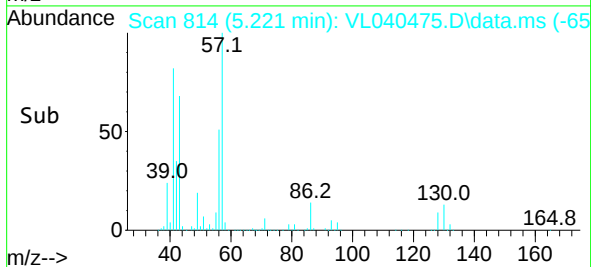
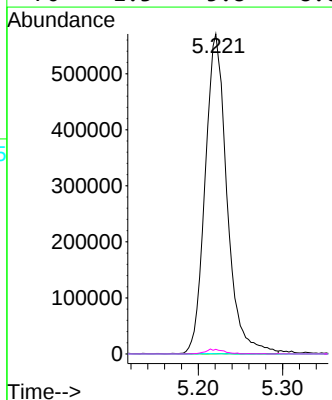
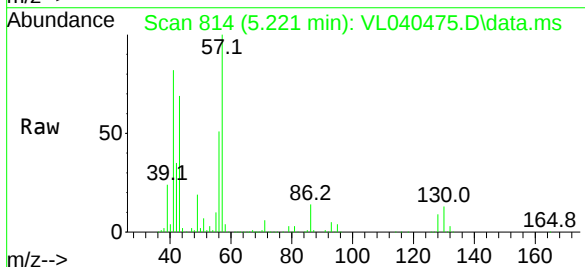
Instrument :
 MSVOA_L
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 SVP-03DL

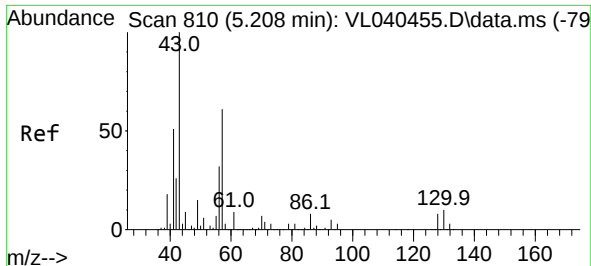
Tgt Ion:	43	Resp:	4636
Ion	Ratio	Lower	Upper
43	100		
86	7.7	5.8	8.6
42	74.6	7.4	11.2#
44	28.6	5.3	7.9#



#25
 Ethyl Acetate
 Concen: 4.069 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.019 min
 Lab File: VL040475.D
 Acq: 15 Jun 2023 20:20

Tgt Ion:	43	Resp:	1026929
Ion	Ratio	Lower	Upper
43	100		
45	0.1	8.0	12.0#
61	0.1	8.1	12.1#
70	1.3	5.8	8.6#

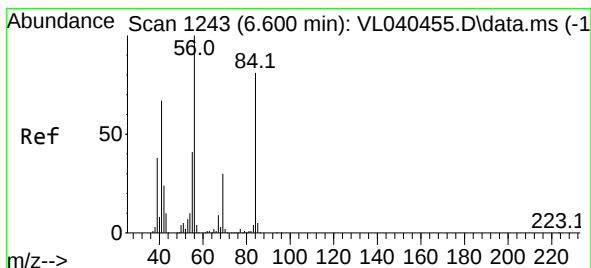
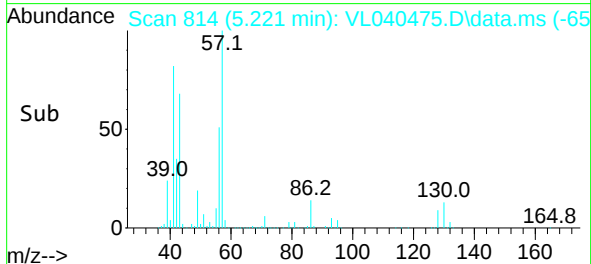
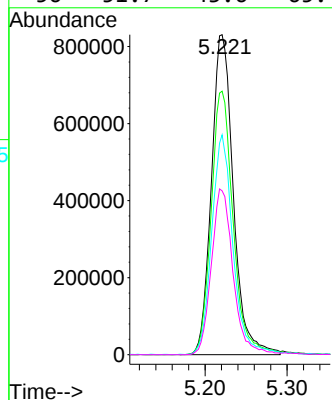
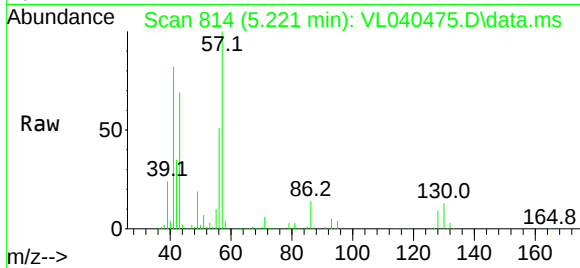




#26
Hexane
Concen: 12.931 ppbv
RT: 5.221 min Scan# 810
Delta R.T. 0.013 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

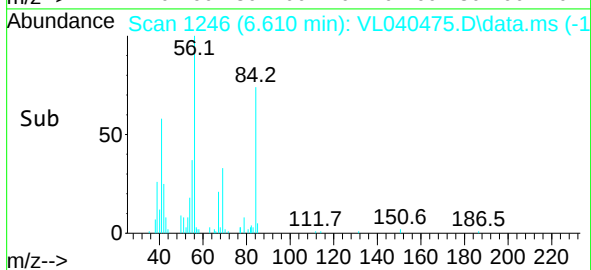
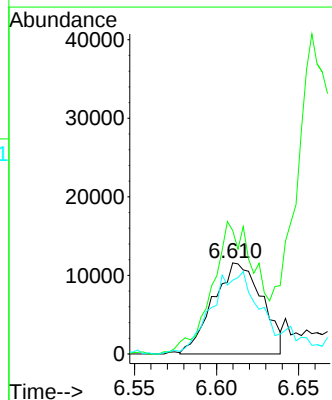
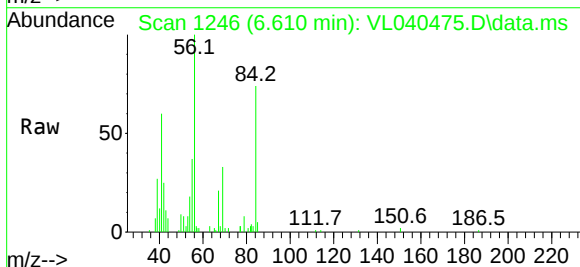
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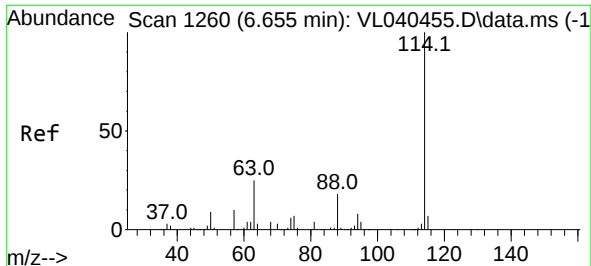
Tgt Ion: 57 Resp: 1545410
Ion Ratio Lower Upper
57 100
41 83.5 73.0 109.6
43 67.2 177.5 266.3#
56 51.7 43.6 65.4



#30
Cyclohexane
Concen: 0.249 ppbv
RT: 6.610 min Scan# 1246
Delta R.T. 0.010 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 84 Resp: 23997
Ion Ratio Lower Upper
84 100
56 137.5 106.0 159.0
41 102.0 66.8 100.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.661 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL040475.D

Acq: 15 Jun 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

SVP-03DL

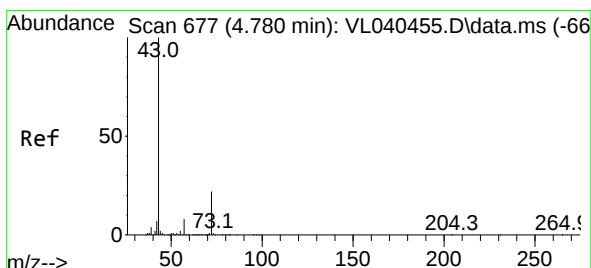
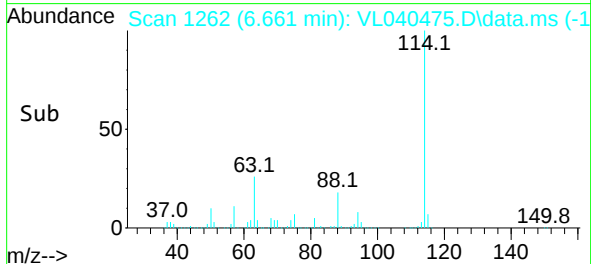
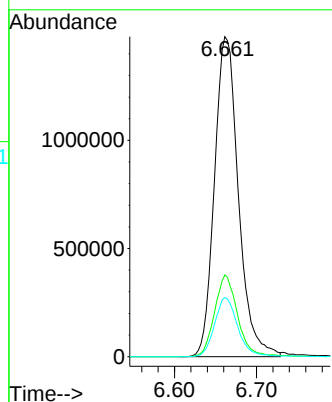
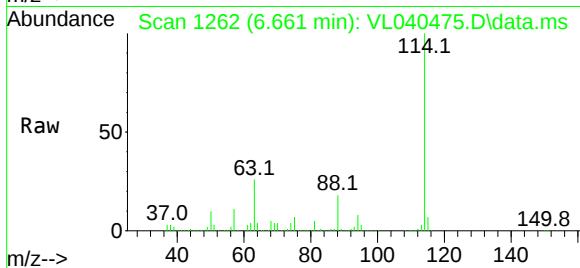
Tgt Ion:114 Resp: 3003552

Ion Ratio Lower Upper

114 100

63 24.7 21.0 31.6

88 18.1 14.5 21.7



#34

2-Butanone

Concen: 1.560 ppbv

RT: 4.803 min Scan# 684

Delta R.T. 0.023 min

Lab File: VL040475.D

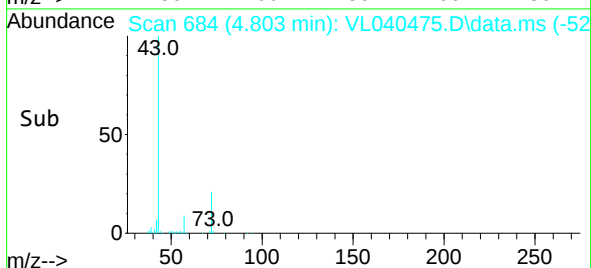
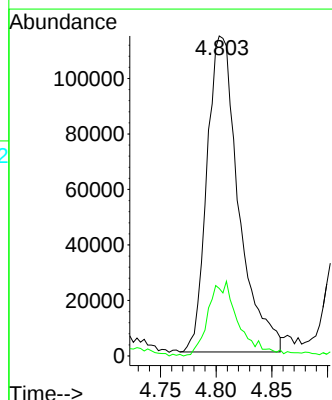
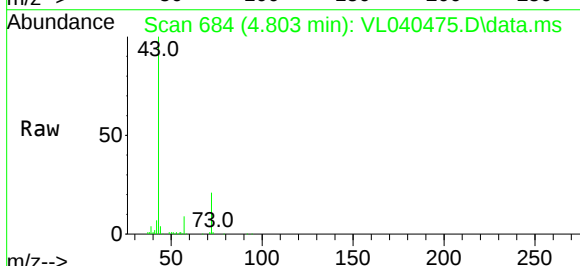
Acq: 15 Jun 2023 20:20

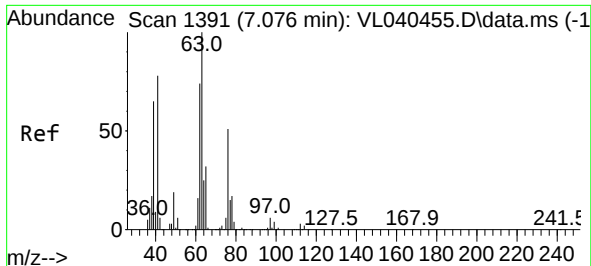
Tgt Ion: 43 Resp: 225997

Ion Ratio Lower Upper

43 100

72 23.5 18.1 27.1





#39

1,2-Dichloropropane

Concen: 7.906 ppbv

RT: 6.661 min Scan# 1

Delta R.T. -0.415 min

Lab File: VL040475.D

Acq: 15 Jun 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

SVP-03DL

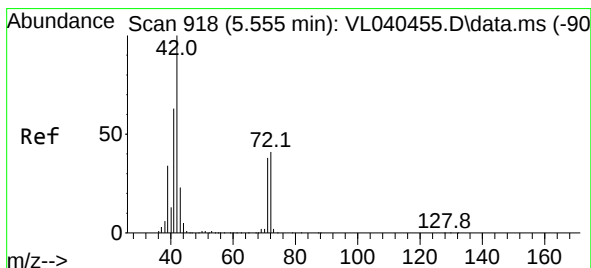
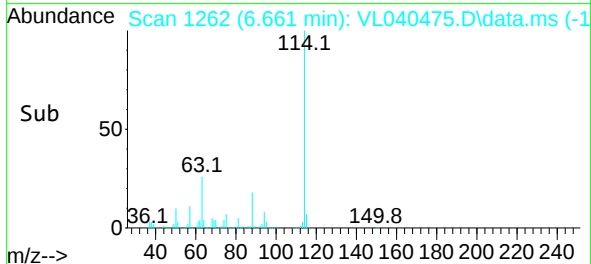
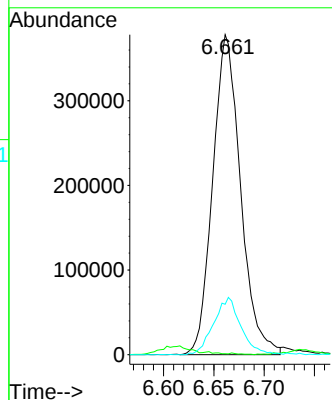
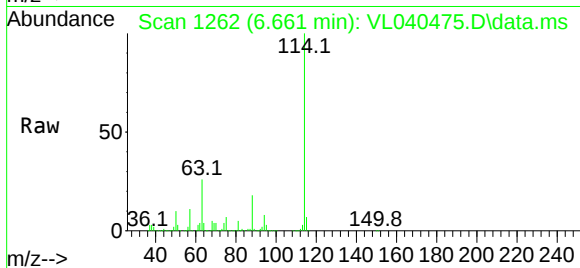
Tgt Ion: 63 Resp: 728167

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.2#

62 15.7 59.0 88.4#



#41

Tetrahydrofuran

Concen: 1.817 ppbv

RT: 5.825 min Scan# 1002

Delta R.T. 0.270 min

Lab File: VL040475.D

Acq: 15 Jun 2023 20:20

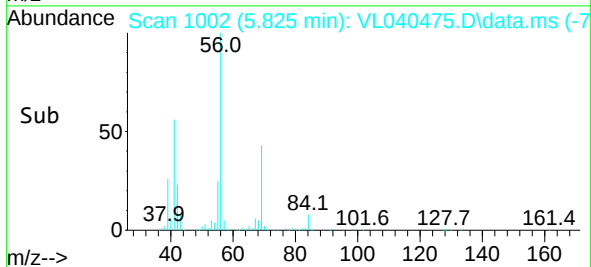
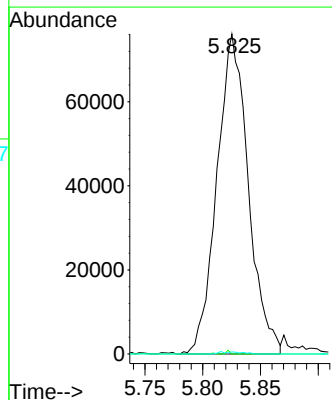
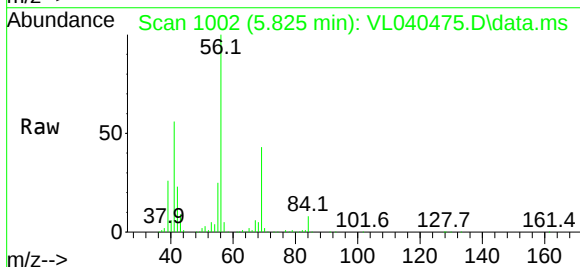
Tgt Ion: 42 Resp: 143828

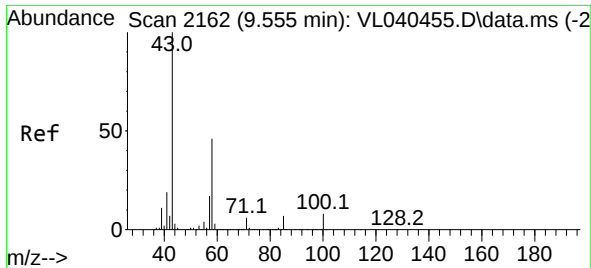
Ion Ratio Lower Upper

42 100

72 0.1 33.8 50.8#

71 0.0 32.3 48.5#

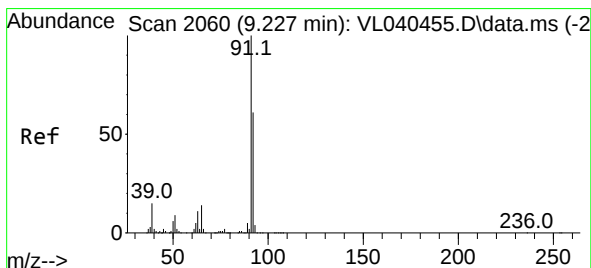
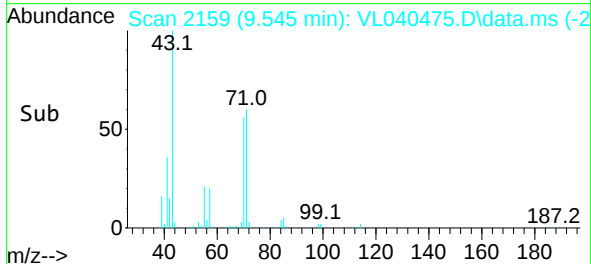
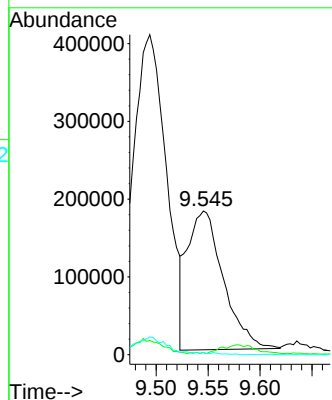
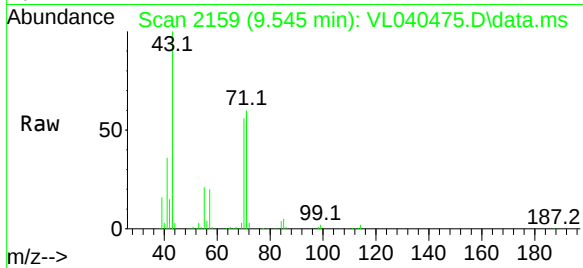




#51
2-Hexanone
Concen: 3.203 ppbv
RT: 9.545 min Scan# 2162
Delta R.T. -0.010 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

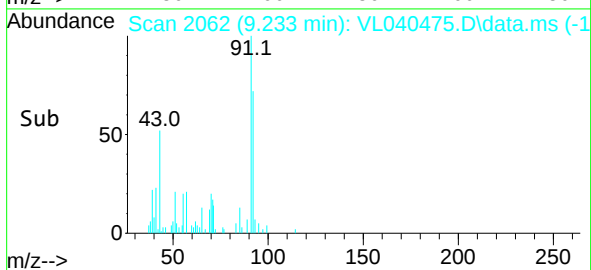
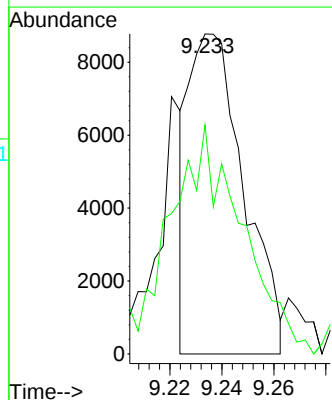
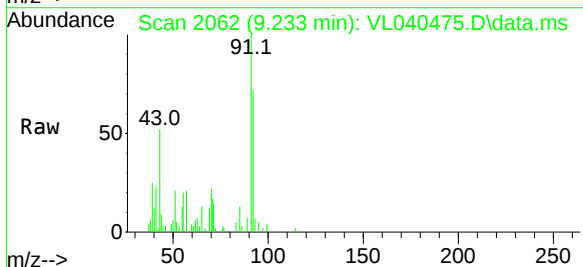
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

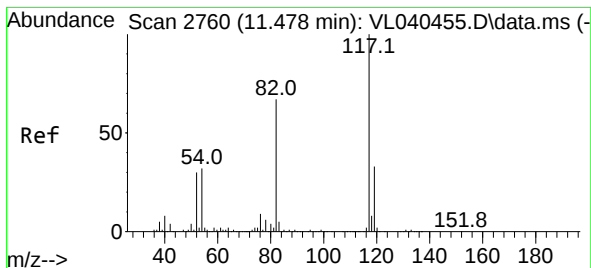
Tgt Ion: 43 Resp: 431299
Ion Ratio Lower Upper
43 100
58 8.5 37.1 55.7#
98 0.0 0.5 0.7#



#53
Toluene
Concen: 0.052 ppbv
RT: 9.233 min Scan# 2062
Delta R.T. 0.006 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 91 Resp: 12960
Ion Ratio Lower Upper
91 100
92 96.3 49.1 73.7#

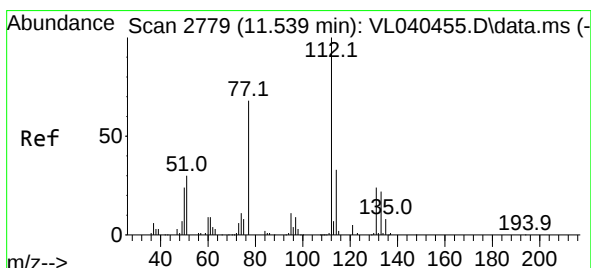
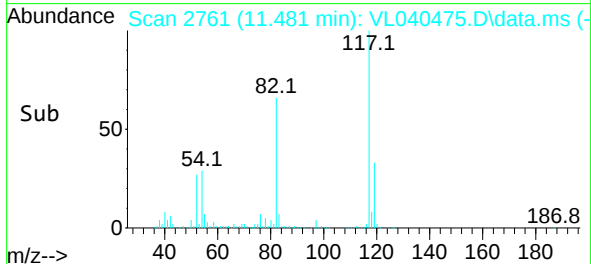
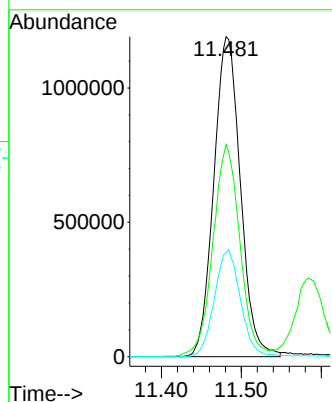
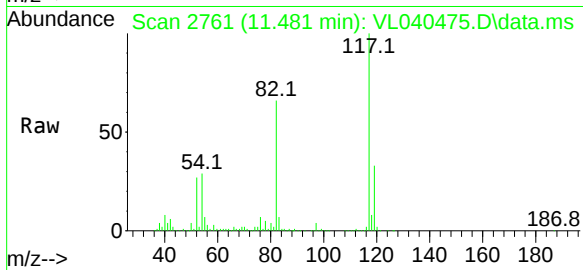




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

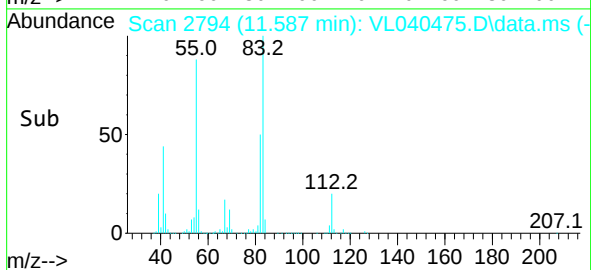
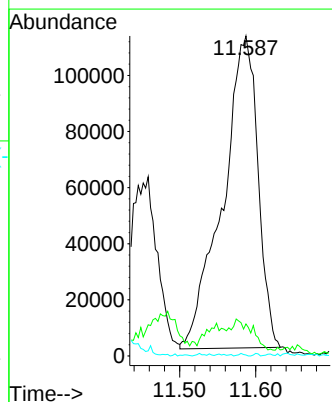
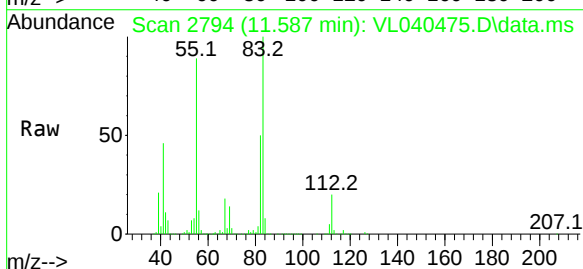
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

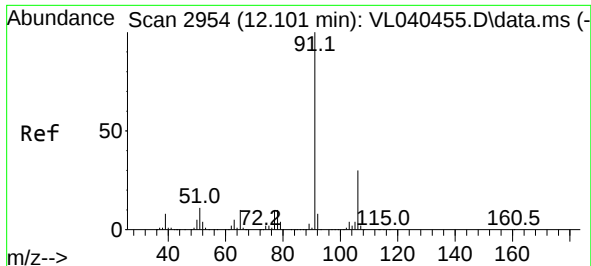
Tgt Ion:117 Resp: 2749295
Ion Ratio Lower Upper
117 100
82 67.2 53.0 79.4
119 33.1 24.4 36.6



#57
Chlorobenzene
Concen: 1.727 ppbv
RT: 11.587 min Scan# 2794
Delta R.T. 0.048 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion:112 Resp: 358964
Ion Ratio Lower Upper
112 100
77 8.3 55.4 83.2#
114 0.3 30.0 36.6#

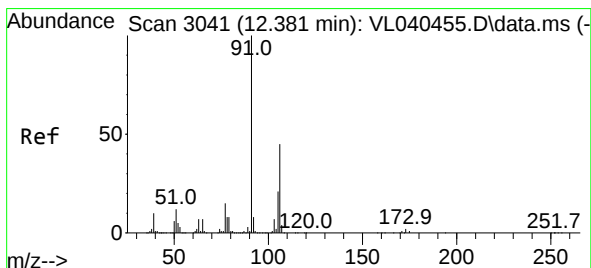
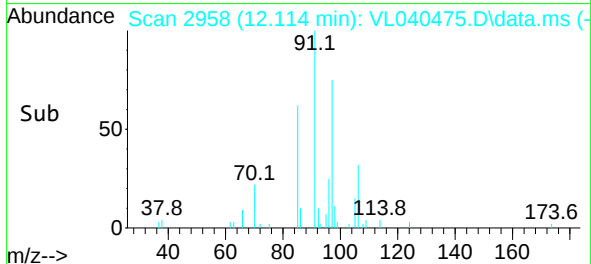
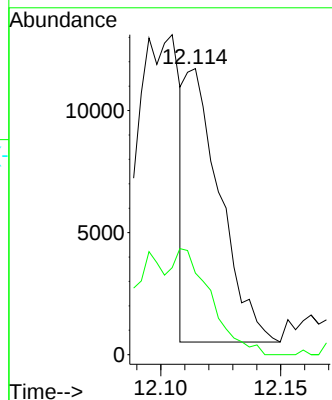
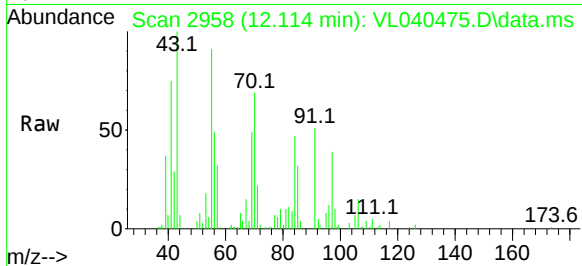




#58
Ethyl Benzene
Concen: 0.034 ppbv
RT: 12.114 min Scan# 2958
Delta R.T. 0.013 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

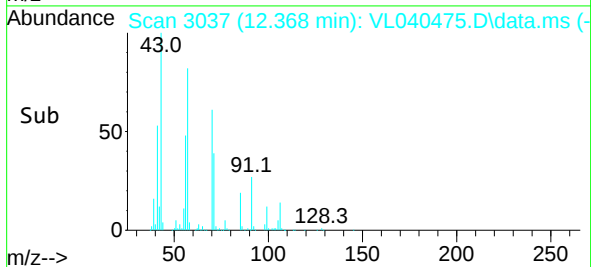
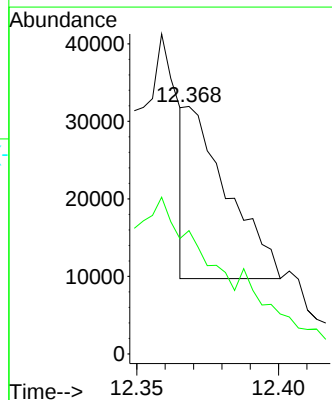
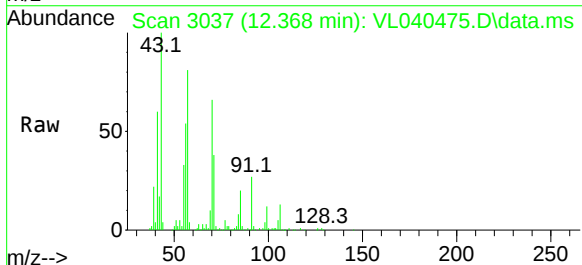
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

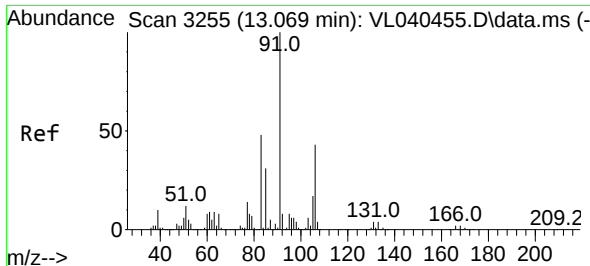
Tgt Ion: 91 Resp: 11342
Ion Ratio Lower Upper
91 100
106 29.8 23.7 35.5



#59
m/p-Xylene
Concen: 0.075 ppbv
RT: 12.368 min Scan# 3037
Delta R.T. -0.013 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 91 Resp: 22899
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#

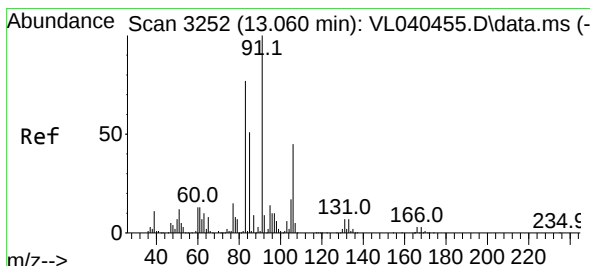
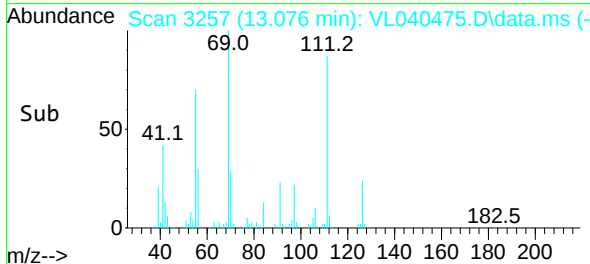
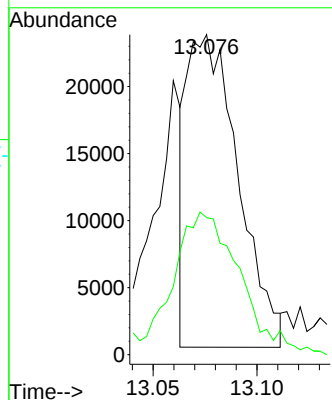
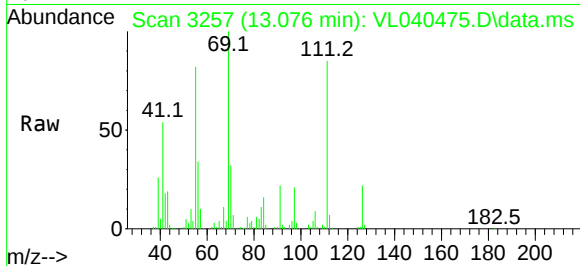




#60
o-Xylene
Concen: 0.138 ppbv
RT: 13.076 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

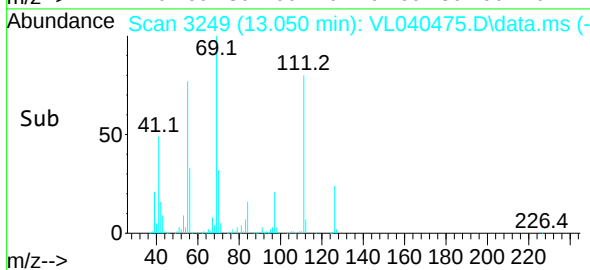
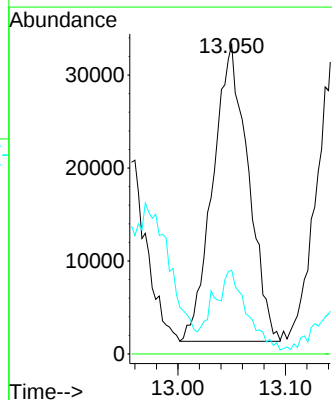
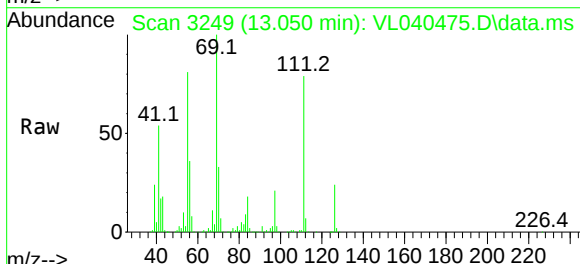
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

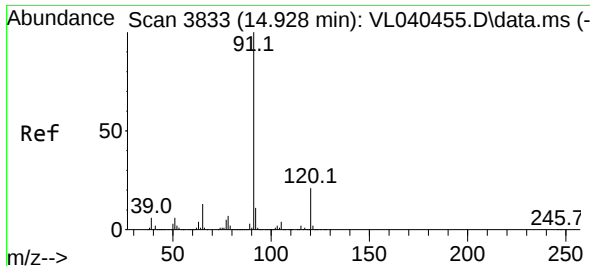
Tgt Ion: 91 Resp: 40004
Ion Ratio Lower Upper
91 100
106 61.0 22.1 66.1



#63
1,1,2,2-Tetrachloroethane
Concen: 0.388 ppbv
RT: 13.050 min Scan# 3249
Delta R.T. -0.010 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 83 Resp: 73025
Ion Ratio Lower Upper
83 100
131 0.0 4.5 13.7#
85 0.0 33.0 99.0#

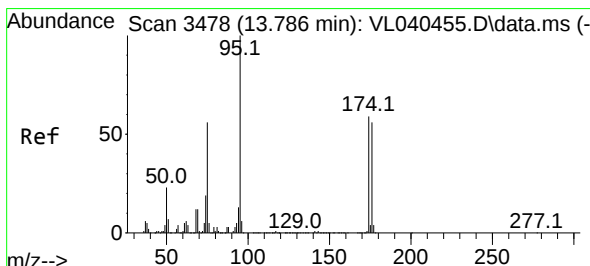
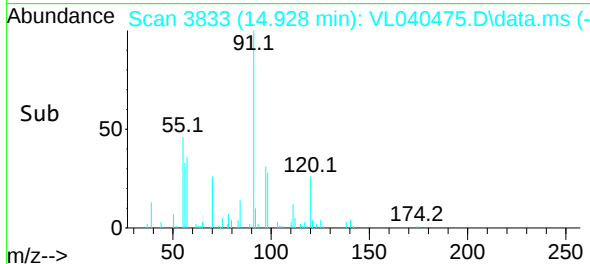
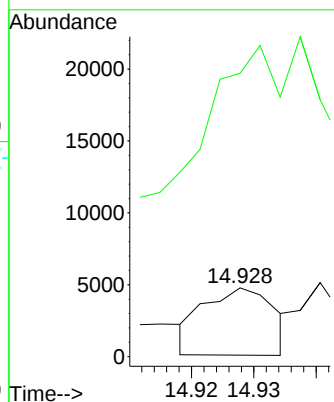
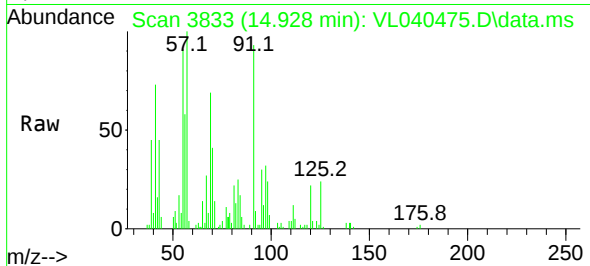




#64
n-propylbenzene
Concen: 0.034 ppbv
RT: 14.928 min Scan# 3833
Delta R.T. 0.000 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

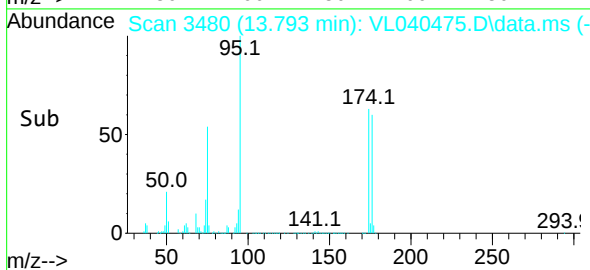
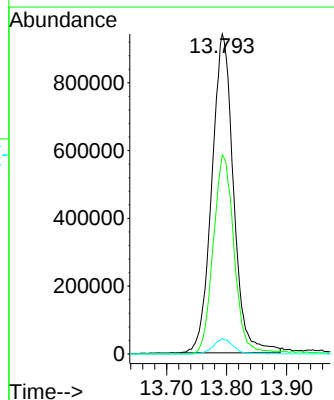
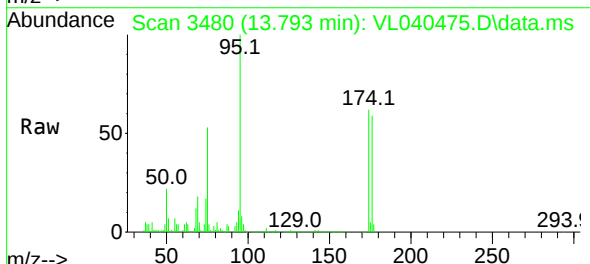
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

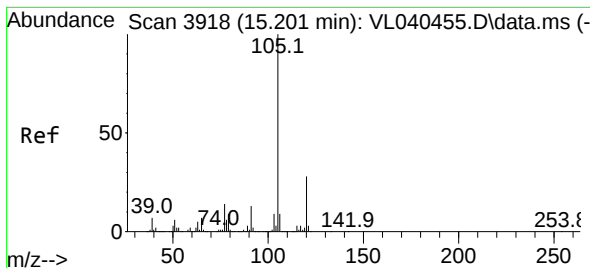
Tgt Ion:120 Resp: 3676
Ion Ratio Lower Upper
120 100
91 0.0 388.5 582.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.403 ppbv
RT: 13.793 min Scan# 3480
Delta R.T. 0.006 min
Lab File: VL040475.D
Acq: 15 Jun 2023 20:20

Tgt Ion: 95 Resp: 2360624
Ion Ratio Lower Upper
95 100
174 61.1 47.7 71.5
175 4.4 3.5 5.3





#72

4-Ethyltoluene

Concen: 0.136 ppbv

RT: 15.208 min Scan# 3918

Delta R.T. 0.006 min

Lab File: VL040475.D

Acq: 15 Jun 2023 20:20

Instrument :

MSVOA_L

ClientSampleId :

SVP-03DL

Tgt Ion:105 Resp: 44436

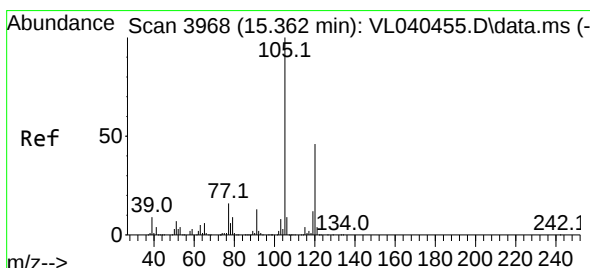
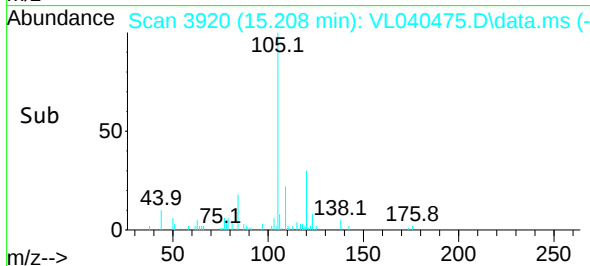
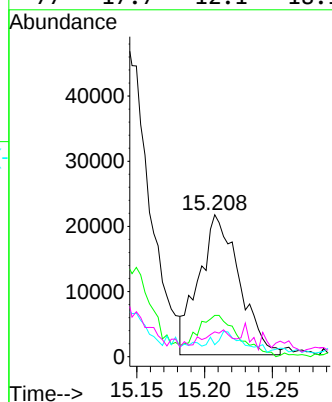
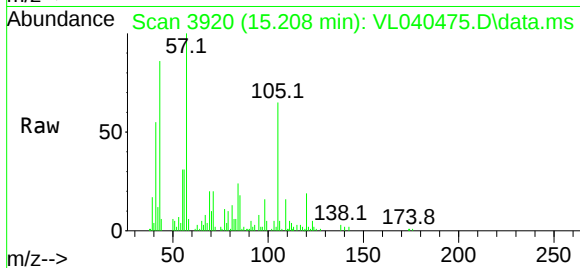
Ion Ratio Lower Upper

105 100

120 30.9 23.4 35.0

91 10.3 11.1 16.7#

77 17.7 12.1 18.1



#73

1,3,5-Trimethylbenzene

Concen: 0.135 ppbv

RT: 15.365 min Scan# 3969

Delta R.T. 0.003 min

Lab File: VL040475.D

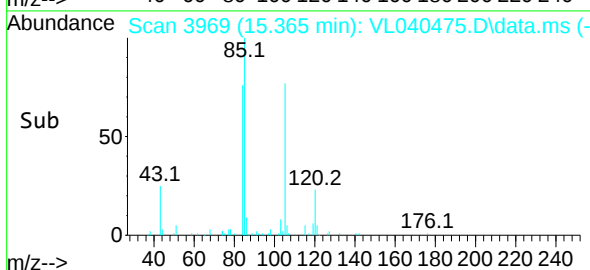
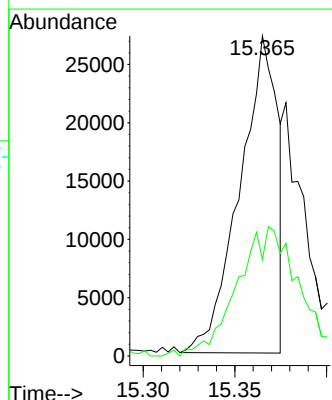
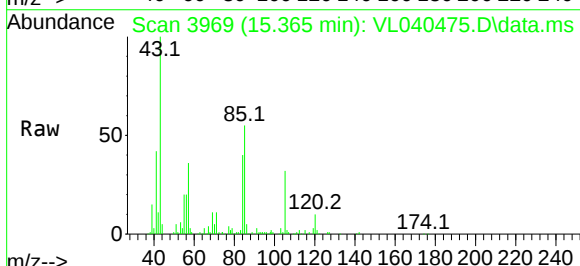
Acq: 15 Jun 2023 20:20

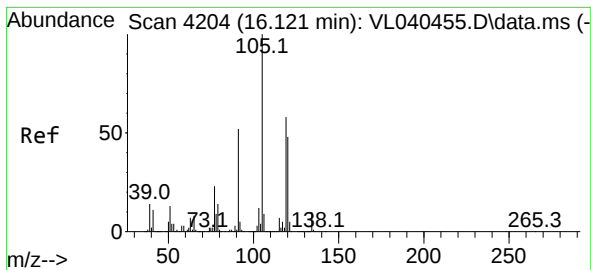
Tgt Ion:105 Resp: 39034

Ion Ratio Lower Upper

105 100

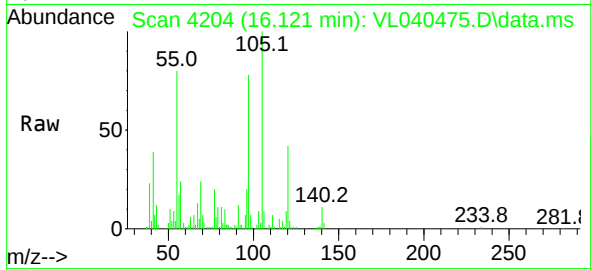
120 30.5 36.4 54.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.335 ppbv
 RT: 16.121 min Scan# 41
 Delta R.T. 0.000 min
 Lab File: VL040475.D
 Acq: 15 Jun 2023 20:20

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL



Tgt Ion:	105	Resp:	114031
Ion	Ratio	Lower	Upper
105	100		
120	41.6	38.4	57.6
91	12.0	41.3	61.9#
77	19.8	18.6	28.0

