

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040856.D
 Acq On : 14 Nov 2023 18:32
 Operator : SY/MD
 Sample : 05399-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Nov 16 04:50:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

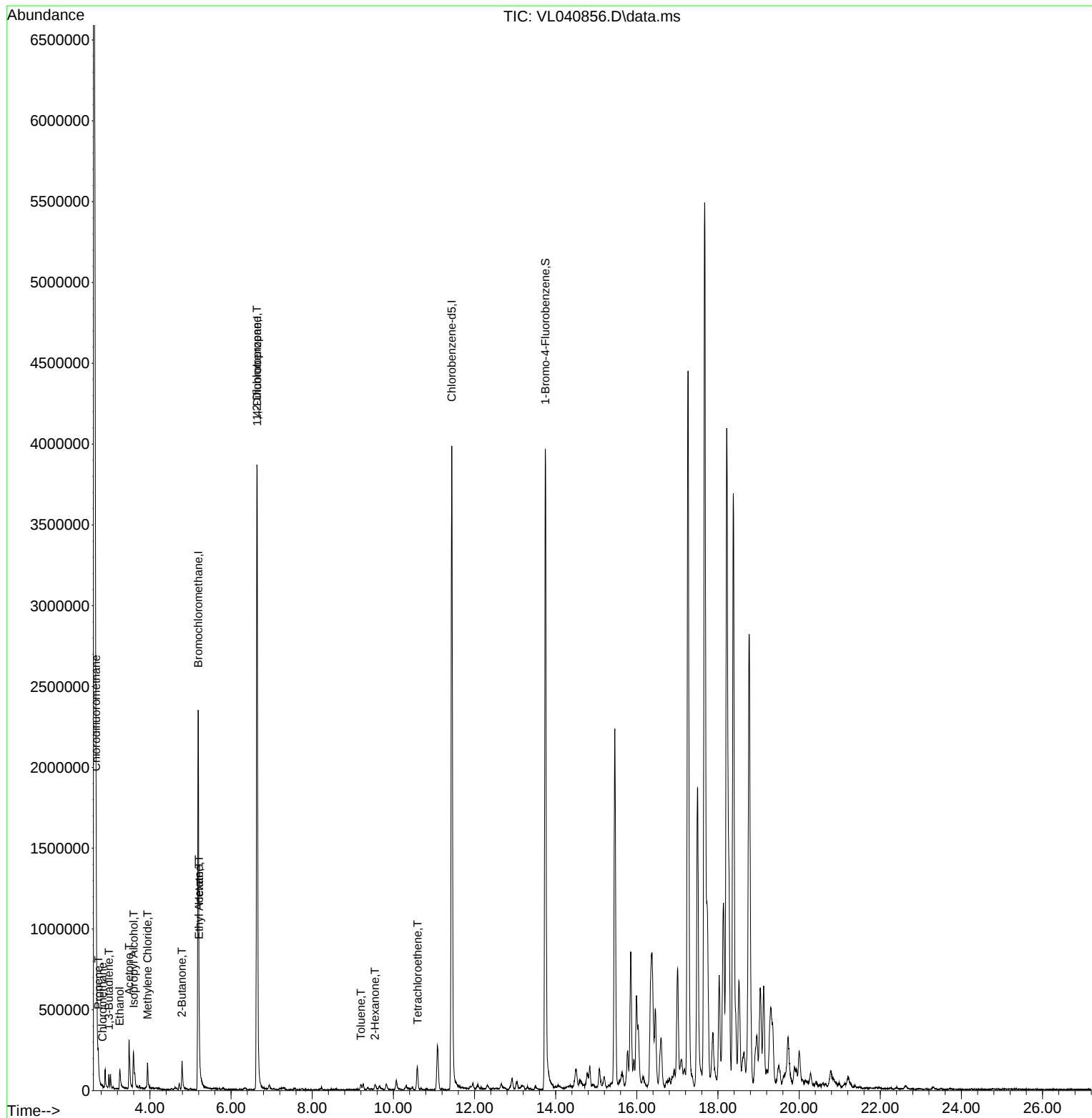
Internal Standards						
1) Bromochloromethane	5.192	49	1135187	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	3089051	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2733728	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	2108317	9.851	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.674	51	25398	0.140	ppbv #	60
4) Chloromethane	2.832	50	2515	0.039	ppbv #	80
9) Propene	2.732	41	20343	0.333	ppbv	87
13) Ethanol	3.256	45	127947	10.788	ppbv #	100
15) Acetone	3.488	43	313524	2.593	ppbv	98
16) 1,3-Butadiene	2.989	39	18920	0.309	ppbv #	23
19) Isopropyl Alcohol	3.597	45	277483	3.814	ppbv	100
20) Methylene Chloride	3.944	84	49170	0.985	ppbv	95
25) Ethyl Acetate	5.211	43	30644	0.122	ppbv #	90
26) Hexane	5.208	57	39166	0.353	ppbv #	45
34) 2-Butanone	4.790	43	212355	1.349	ppbv	98
39) 1,2-Dichloropropane	6.639	63	748440	7.529	ppbv #	24
51) 2-Hexanone	9.548	43	31224	0.182	ppbv #	87
52) Tetrachloroethene	10.597	164	15184	0.180	ppbv #	80
53) Toluene	9.201	91	25105	0.091	ppbv	99

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

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Instrument :
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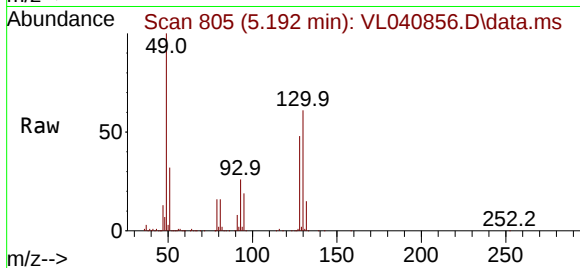
Quant Time: Nov 16 04:50:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Nov 13 15:42:46 2023
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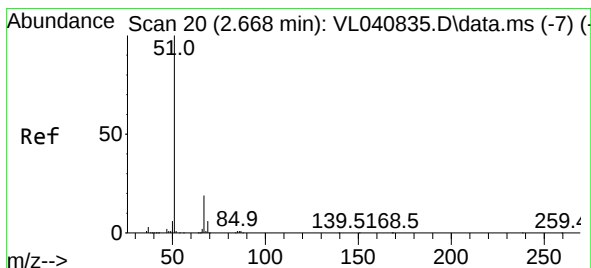
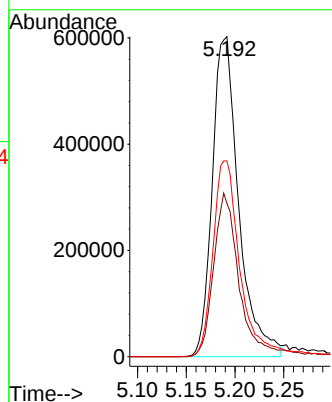
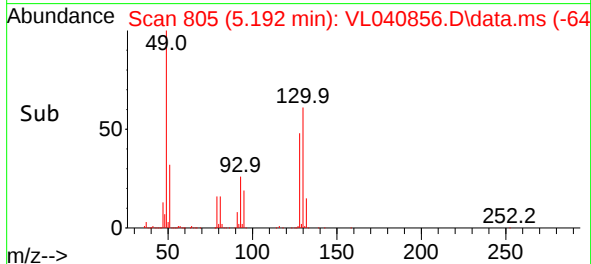


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Instrument :
MSVOA_L
ClientSampleId :

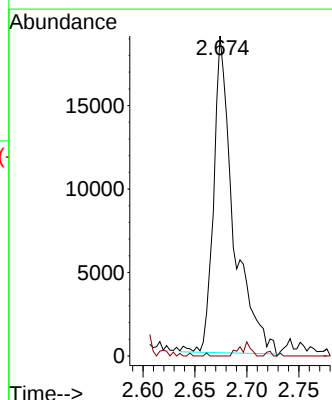
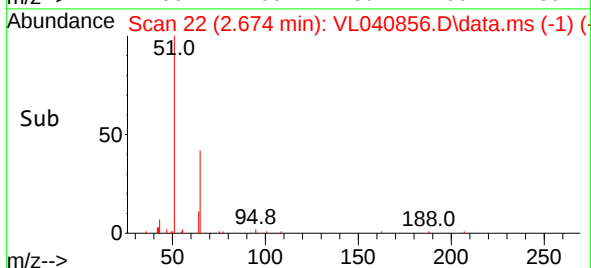
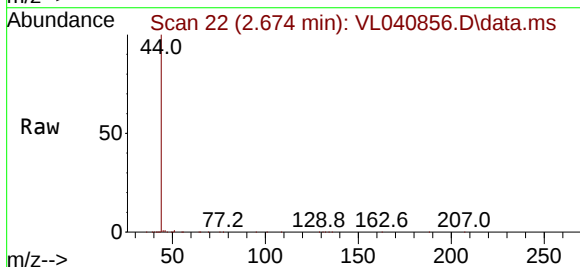


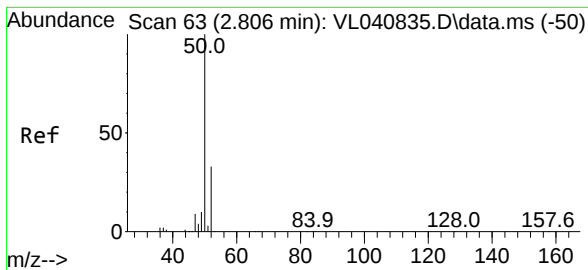
Tgt Ion: 49 Resp: 1135187
Ion Ratio Lower Upper
49 100
128 51.2 23.8 71.2
130 64.8 30.9 92.8



#3
Chlorodifluoromethane
Concen: 0.140 ppbv
RT: 2.674 min Scan# 22
Delta R.T. 0.006 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion: 51 Resp: 25398
Ion Ratio Lower Upper
51 100
67 0.6 15.0 22.4

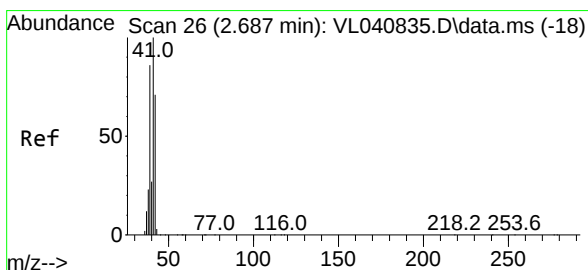
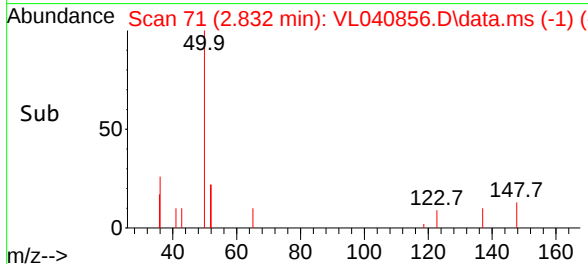
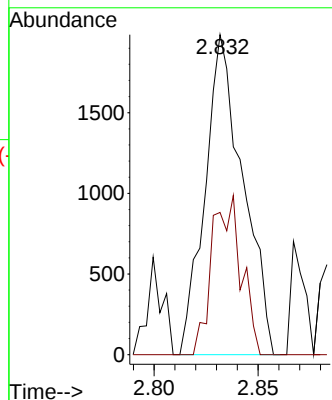
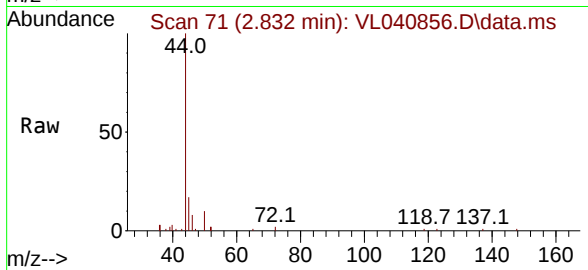




#4
Chloromethane
Concen: 0.039 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.026 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

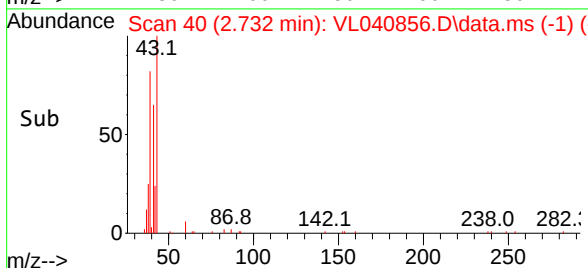
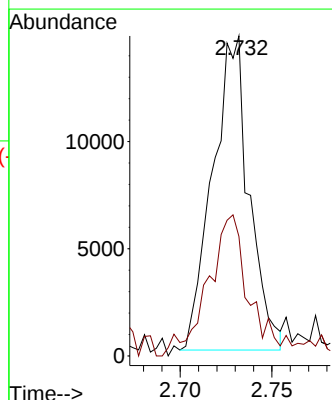
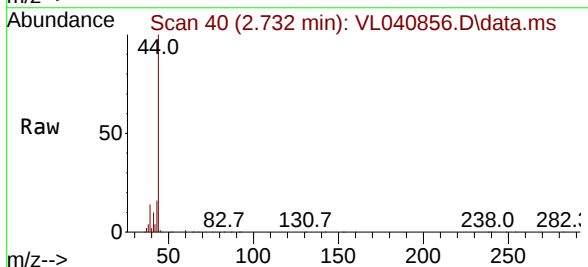
Instrument :
MSVOA_L
ClientSampleId :

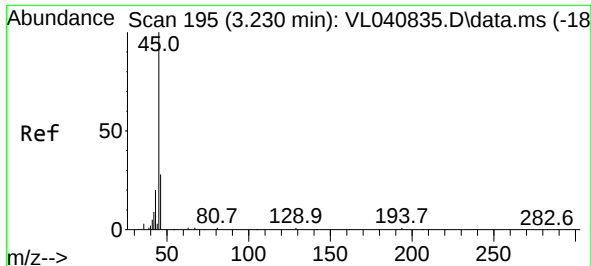
Tgt Ion: 50 Resp: 2515
Ion Ratio Lower Upper
50 100
52 44.5 26.5 39.7#



#9
Propene
Concen: 0.333 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.045 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion: 41 Resp: 20343
Ion Ratio Lower Upper
41 100
42 59.5 56.5 84.7

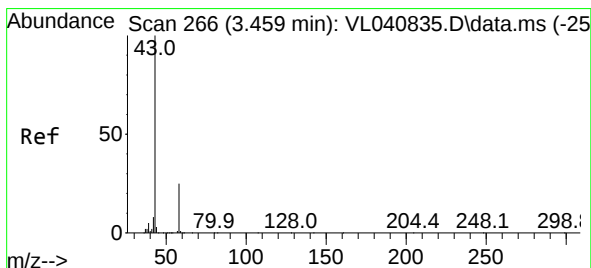
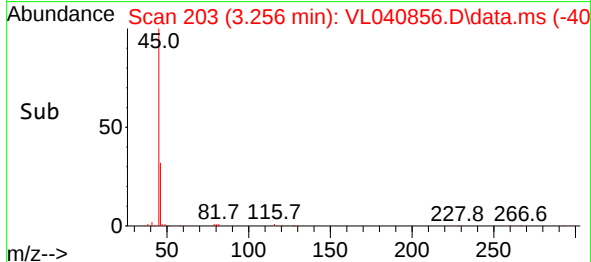
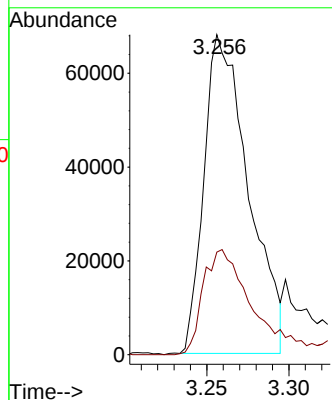
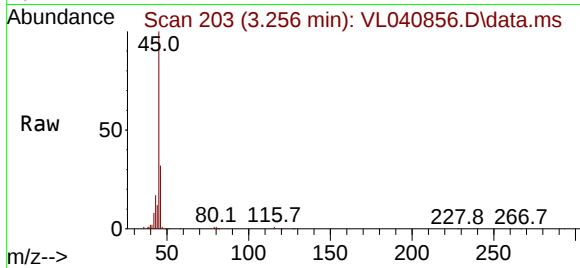




#13
Ethanol
Concen: 10.788 ppbv
RT: 3.256 min Scan# 203
Delta R.T. 0.026 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

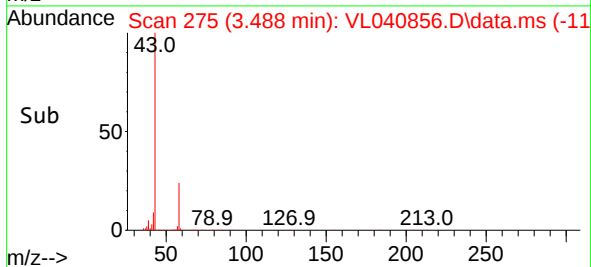
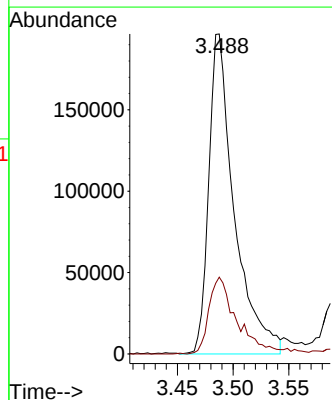
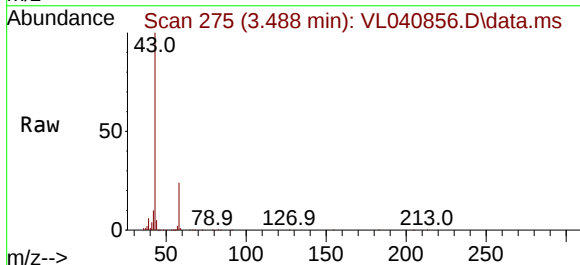
Instrument :
MSVOA_L
ClientSampleId :

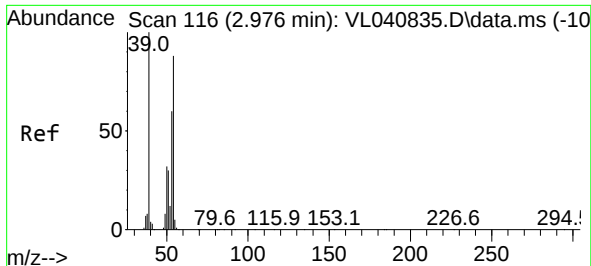
Tgt Ion: 45 Resp: 127947
Ion Ratio Lower Upper
45 100
46 41.0 0.0 0.0#



#15
Acetone
Concen: 2.593 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.029 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion: 43 Resp: 313524
Ion Ratio Lower Upper
43 100
58 27.0 20.9 31.3





#16

1,3-Butadiene

Concen: 0.309 ppbv

RT: 2.989 min Scan# 116

Delta R.T. 0.013 min

Lab File: VL040856.D

Acq: 14 Nov 2023 18:32

Instrument :

MSVOA_L

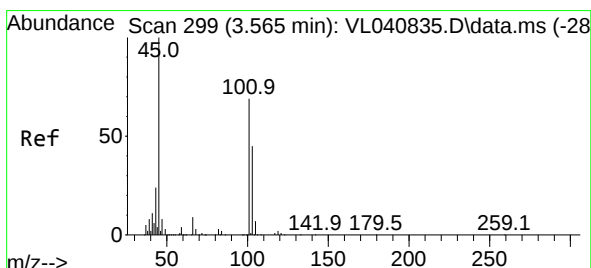
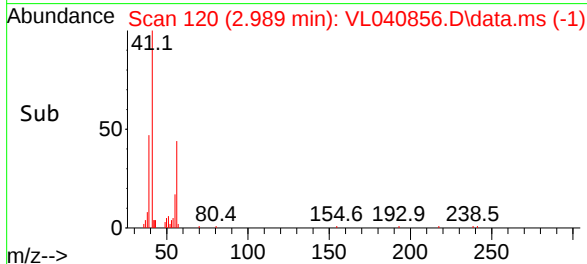
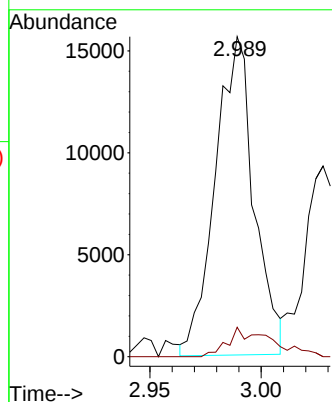
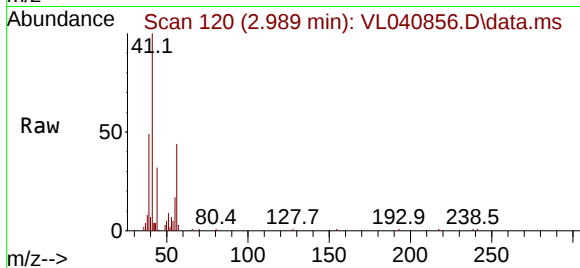
ClientSampleId :

Tgt Ion: 39 Resp: 18920

Ion Ratio Lower Upper

39 100

54 10.8 61.8 92.6#



#19

Isopropyl Alcohol

Concen: 3.814 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.032 min

Lab File: VL040856.D

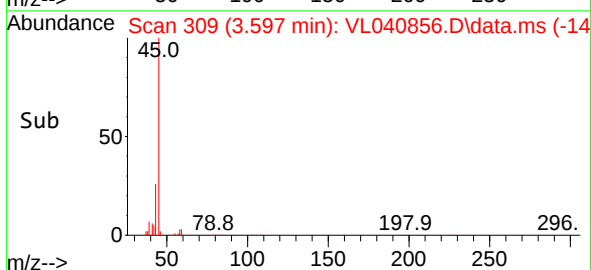
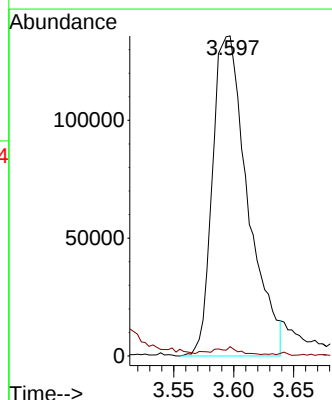
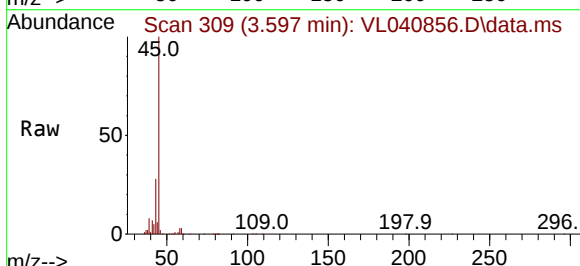
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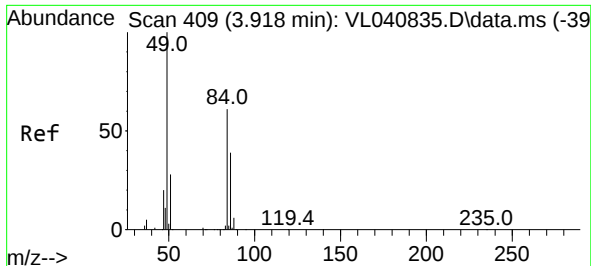
Tgt Ion: 45 Resp: 277483

Ion Ratio Lower Upper

45 100

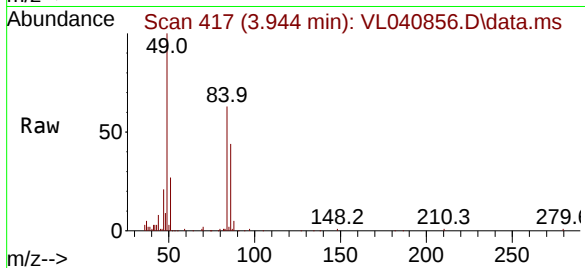
58 1.8 1.6 2.4



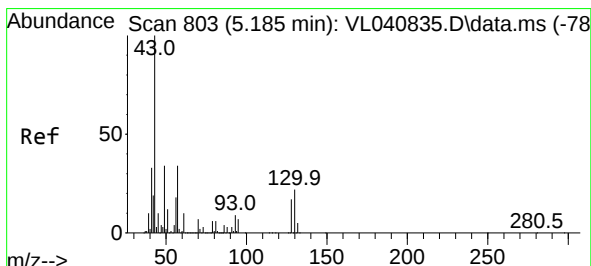
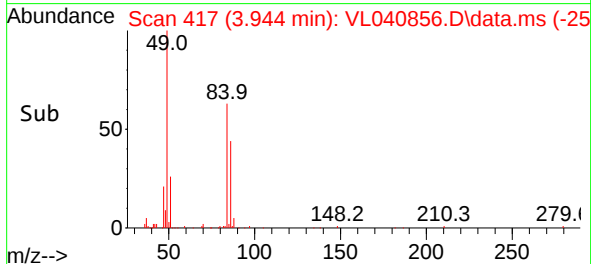
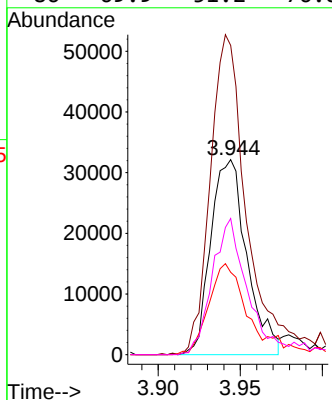


#20
Methylene Chloride
Concen: 0.985 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Instrument :
MSVOA_L
ClientSampleId :

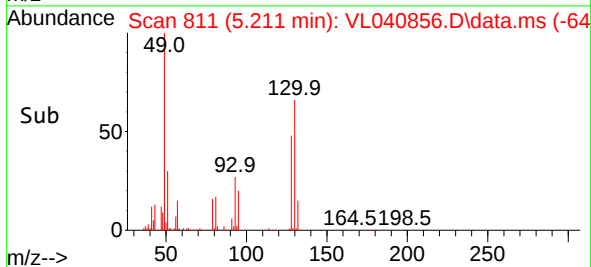
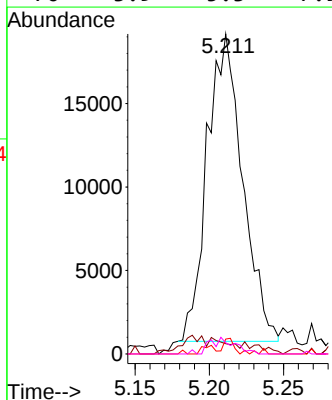
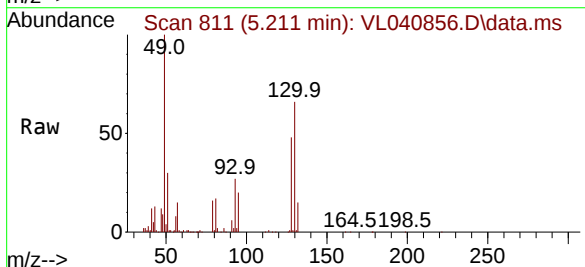


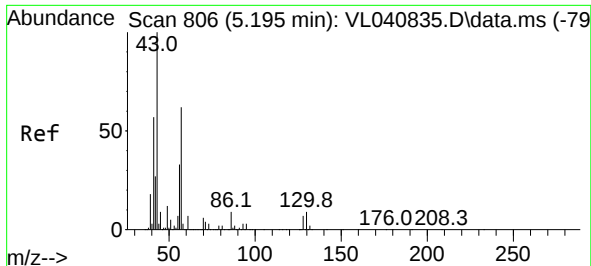
Tgt Ion:	84	Resp:	49170
Ion	Ratio	Lower	Upper
84	100		
49	158.6	131.0	196.4
51	41.7	36.9	55.3
86	69.9	51.2	76.8



#25
Ethyl Acetate
Concen: 0.122 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.026 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion:	43	Resp:	30644
Ion	Ratio	Lower	Upper
43	100		
45	8.9	8.1	12.1
61	3.0	7.8	11.6#
70	3.9	5.3	7.9#

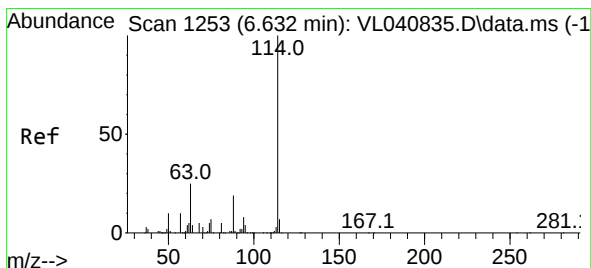
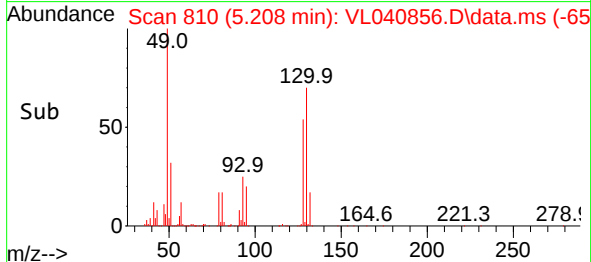
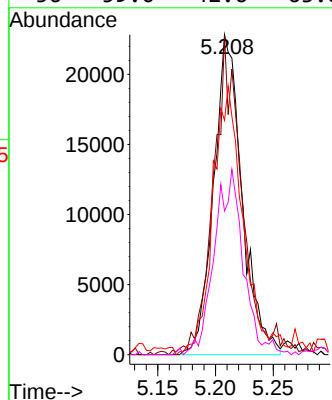
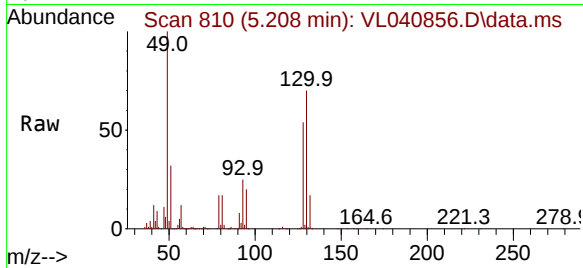




#26
Hexane
Concen: 0.353 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.013 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

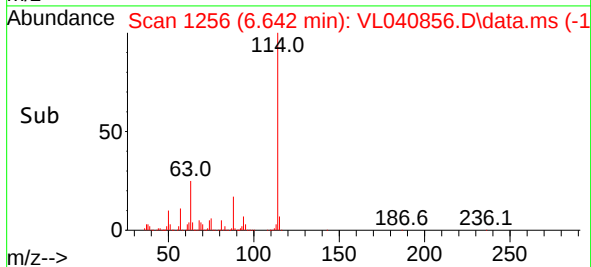
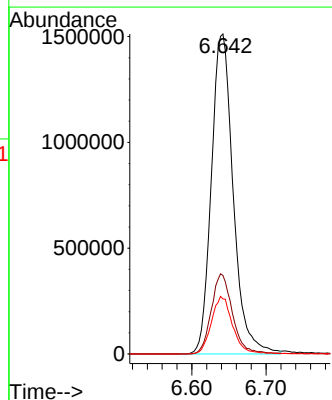
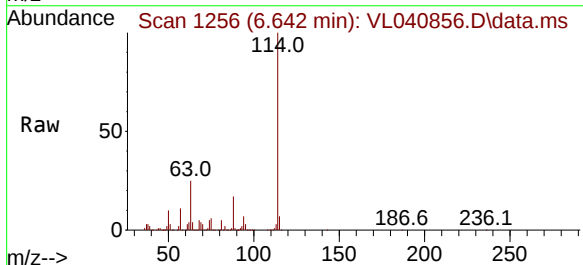
Instrument :
MSVOA_L
ClientSampleId :

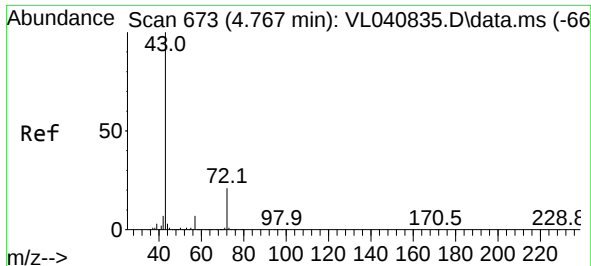
Tgt Ion: 57 Resp: 39166
Ion Ratio Lower Upper
57 100
41 100.6 75.4 113.0
43 89.6 185.9 278.9#
56 59.0 42.6 63.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.010 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion: 114 Resp: 3089051
Ion Ratio Lower Upper
114 100
63 24.6 20.9 31.3
88 17.6 14.3 21.5

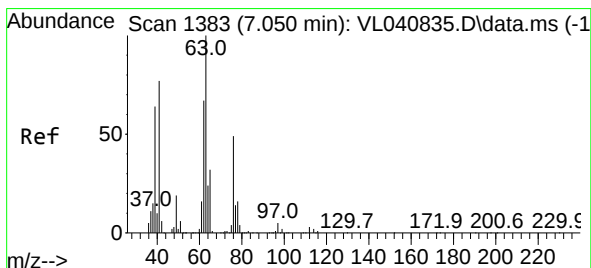
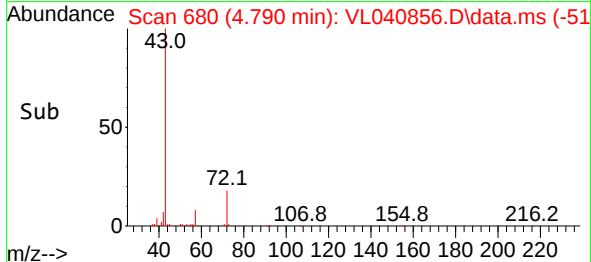
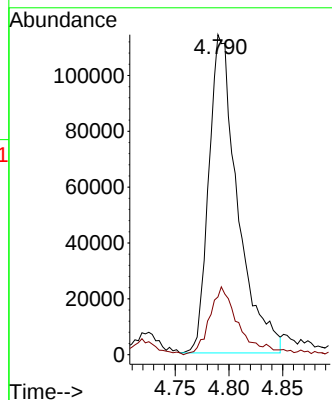
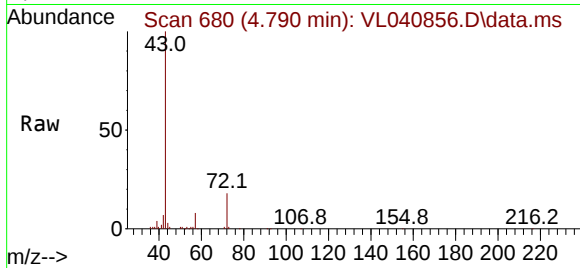




#34
2-Butanone
Concen: 1.349 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

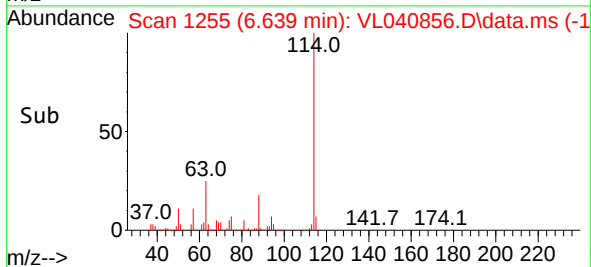
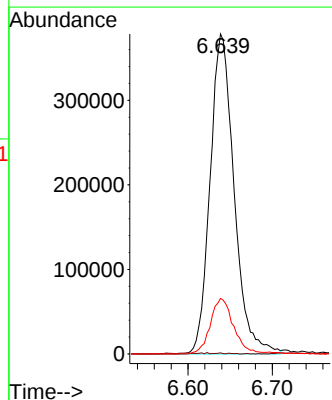
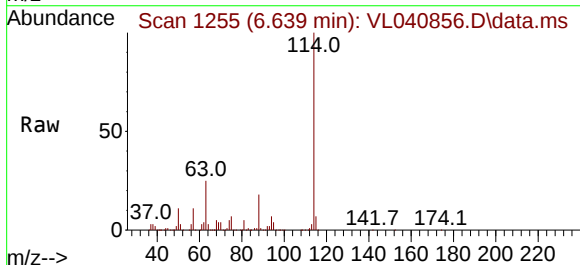
Instrument :
MSVOA_L
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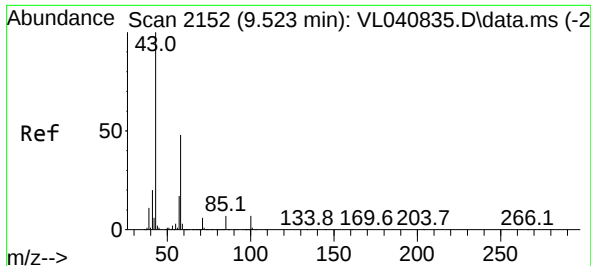
Tgt Ion: 43 Resp: 212355
Ion Ratio Lower Upper
43 100
72 22.5 17.2 25.8



#39
1,2-Dichloropropane
Concen: 7.529 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.412 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion: 63 Resp: 748440
Ion Ratio Lower Upper
63 100
41 0.2 61.5 92.3#
62 17.3 53.9 80.9#

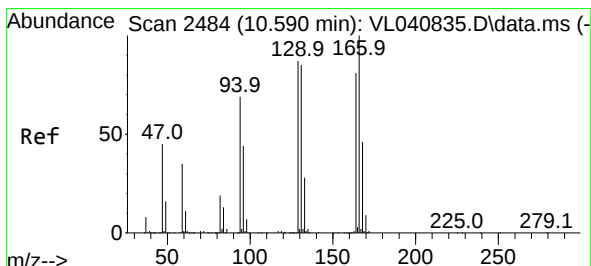
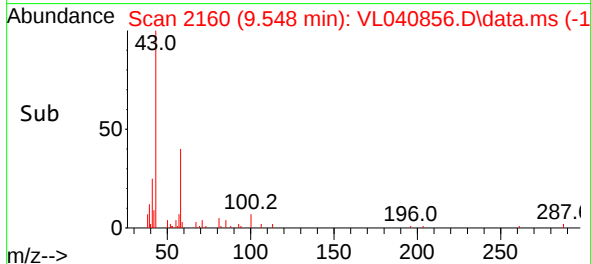
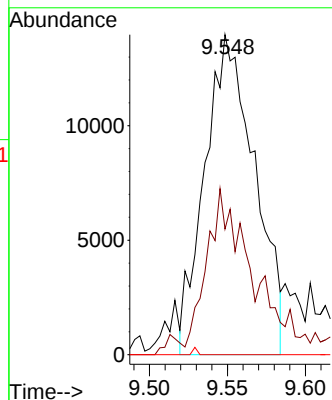
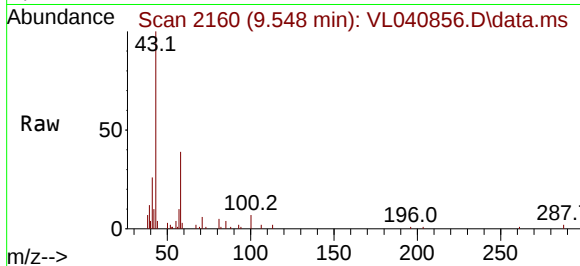




#51
2-Hexanone
Concen: 0.182 ppbv
RT: 9.548 min Scan# 2152
Delta R.T. 0.026 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

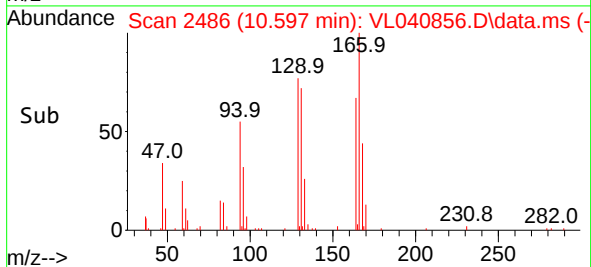
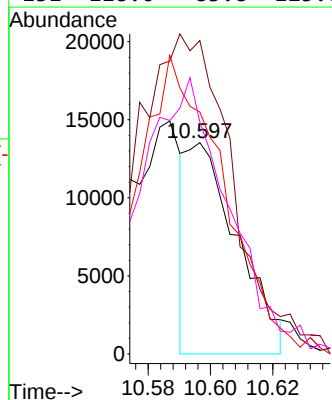
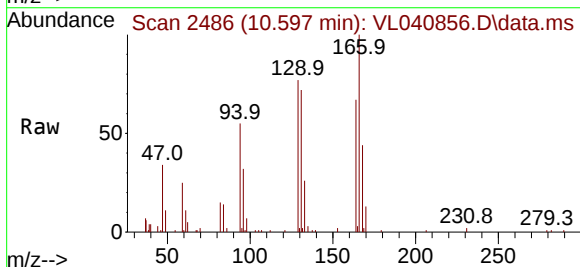
Instrument :
MSVOA_L
ClientSampleId :

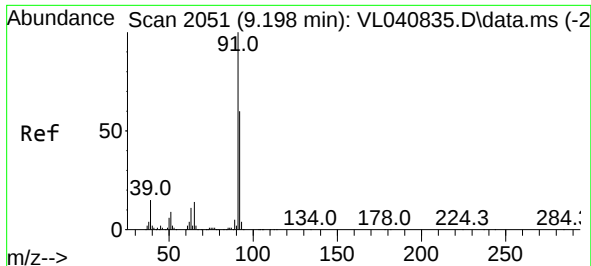
Tgt Ion: 43 Resp: 31224
Ion Ratio Lower Upper
43 100
58 55.3 37.4 56.2
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 0.180 ppbv
RT: 10.597 min Scan# 2486
Delta R.T. 0.006 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

Tgt Ion: 164 Resp: 15184
Ion Ratio Lower Upper
164 100
166 156.0 98.3 147.5#
129 121.9 85.1 127.7
131 118.0 83.8 125.6

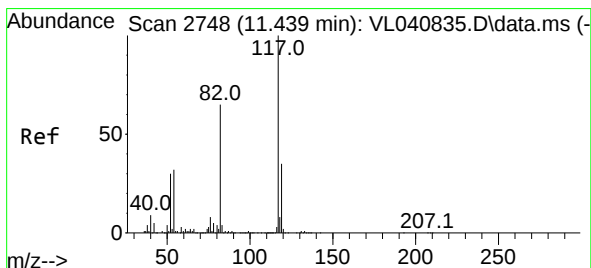
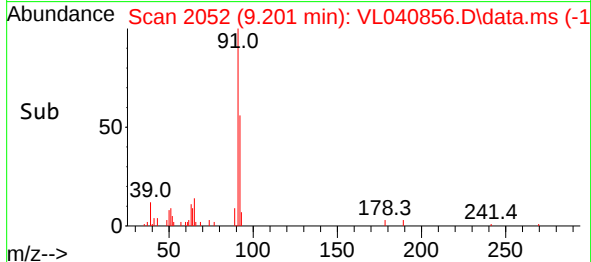
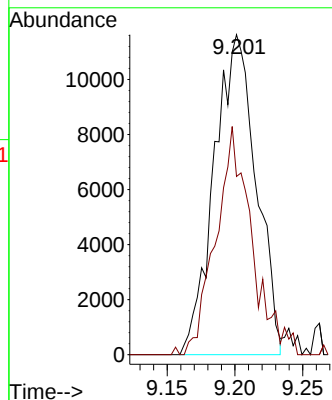
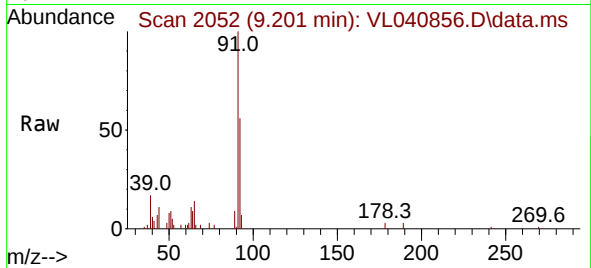




#53
Toluene
Concen: 0.091 ppbv
RT: 9.201 min Scan# 2051
Delta R.T. 0.003 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

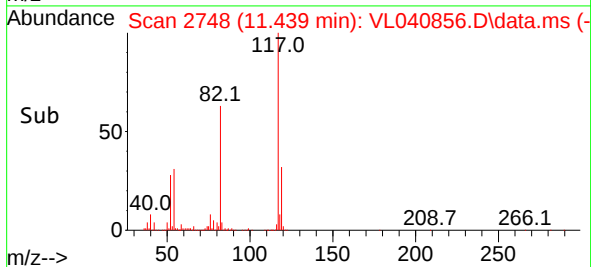
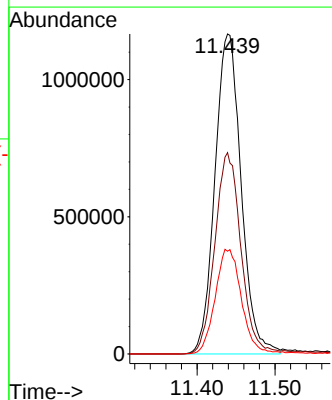
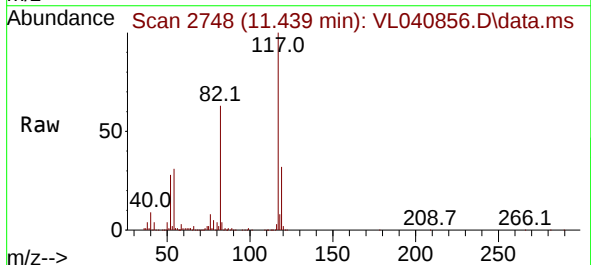
Instrument :
MSVOA_L
ClientSampleId :

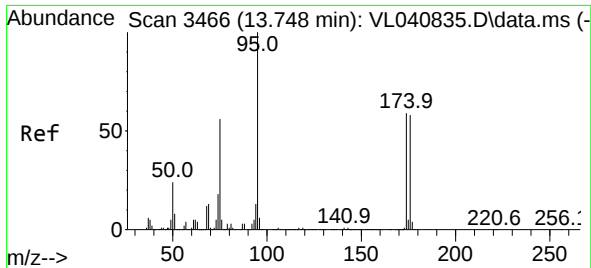
Tgt Ion: 91 Resp: 25105
Ion Ratio Lower Upper
91 100
92 61.1 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.000 min
Lab File: VL040856.D
Acq: 14 Nov 2023 18:32

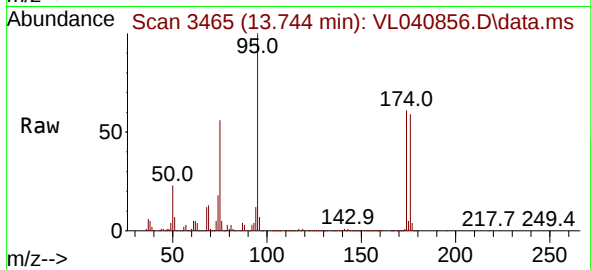
Tgt Ion: 117 Resp: 2733728
Ion Ratio Lower Upper
117 100
82 64.1 50.6 75.8
119 33.0 23.3 34.9





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.851 ppbv
 RT: 13.744 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL040856.D
 Acq: 14 Nov 2023 18:32

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 2108317

Ion	Ratio	Lower	Upper
95	100		
174	64.0	47.5	71.3
175	4.7	3.6	5.4

