

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031424\
 Data File : VL041110.D
 Acq On : 14 Mar 2024 17:04
 Operator : SY/MD
 Sample : P1748-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03

Quant Time: Mar 15 02:48:48 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Mar 15 02:44:43 2024
 Response via : Initial Calibration

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

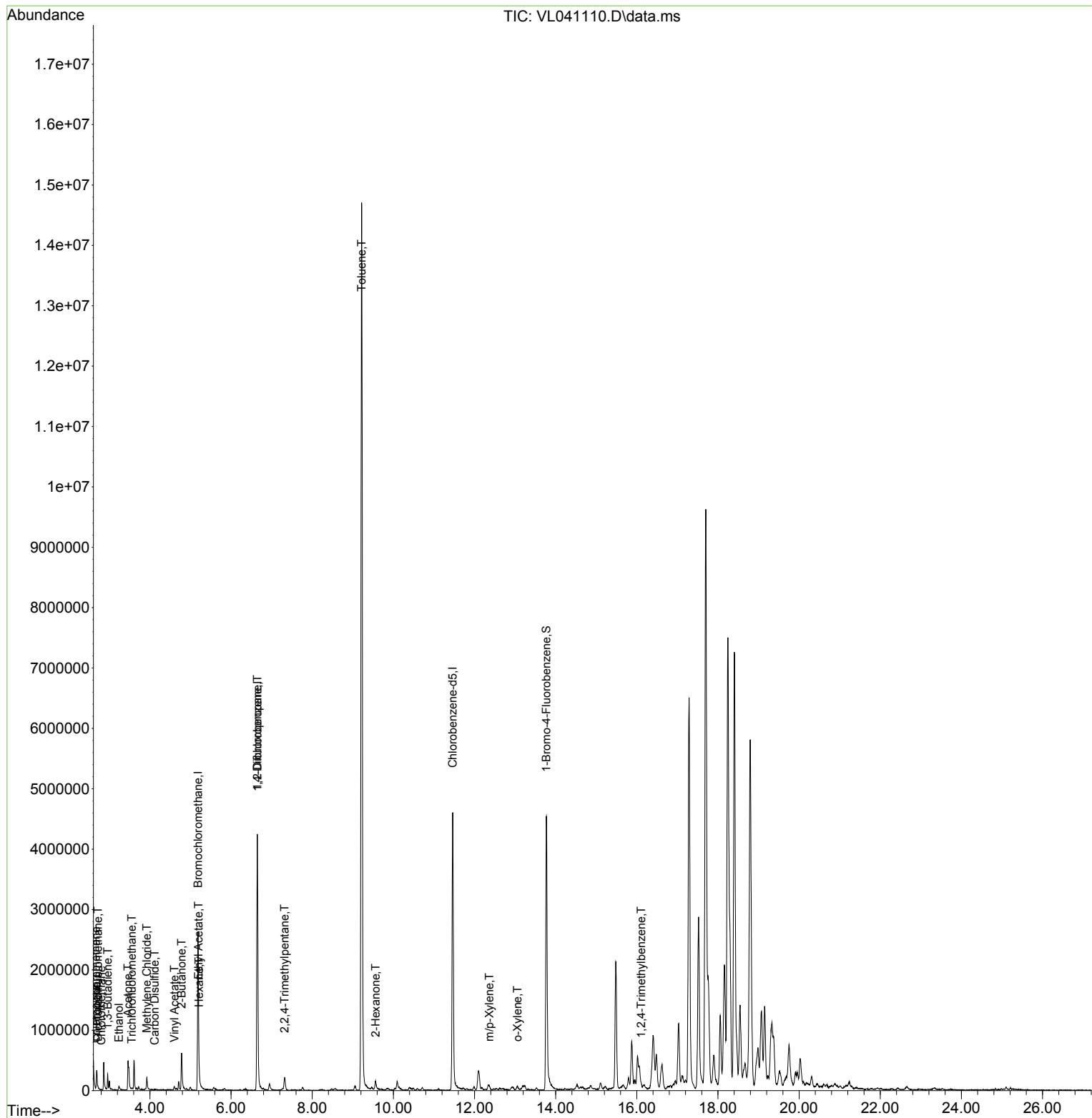
Internal Standards						
1) Bromochloromethane	5.185	49	1227809	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.648	114	3064545	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2942492	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	2348484	10.208	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	= 102.100%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	20216	0.086	ppbv	93
3) Chlorodifluoromethane	2.665	51	15897	0.088	ppbv	93
4) Chloromethane	2.800	50	3177	0.047	ppbv #	84
9) Propene	2.687	41	117982	1.965	ppbv	94
11) Trichlorofluoromethane	3.552	101	9322	0.052	ppbv #	67
13) Ethanol	3.234	45	56001	3.499	ppbv	77
15) Acetone	3.462	43	545943	3.903	ppbv #	85
16) 1,3-Butadiene	2.957	39	59356	0.935	ppbv #	22
20) Methylene Chloride	3.925	84	66381	1.217	ppbv	93
23) Vinyl Acetate	4.604	43	10569	0.067	ppbv #	1
25) Ethyl Acetate	5.202	43	24172	0.096	ppbv #	84
26) Hexane	5.208	57	31180	0.277	ppbv #	34
27) Carbon Disulfide	4.115	76	5580	0.041	ppbv #	57
34) 2-Butanone	4.780	43	705806	4.652	ppbv	97
39) 1,2-Dichloropropane	6.645	63	784068	8.593	ppbv #	22
44) 2,2,4-Trimethylpentane	7.320	57	175069	0.460	ppbv #	80
51) 2-Hexanone	9.562	43	108795	0.664	ppbv #	100
53) Toluene	9.217	91	12045366	48.988	ppbv	93
59) m/p-Xylene	12.365	91	14923	0.049	ppbv #	32
60) o-Xylene	13.057	91	34264	0.119	ppbv	96
74) 1,2,4-Trimethylbenzene	16.105	105	33046	0.103	ppbv #	62

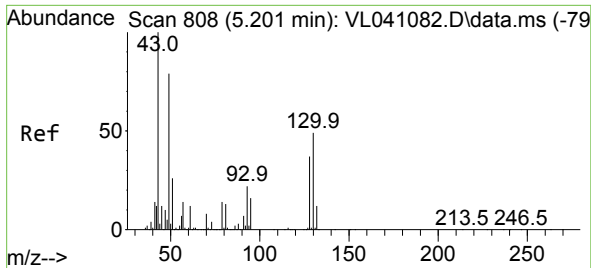
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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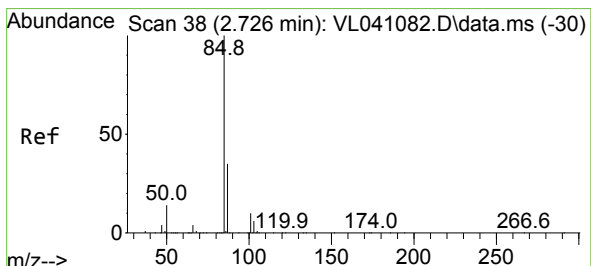
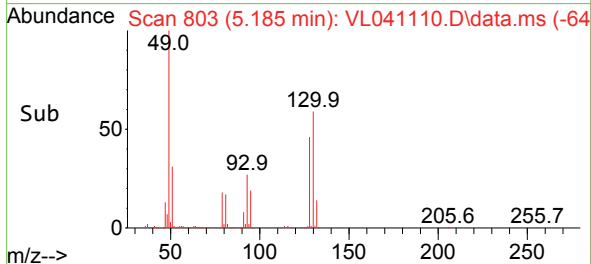
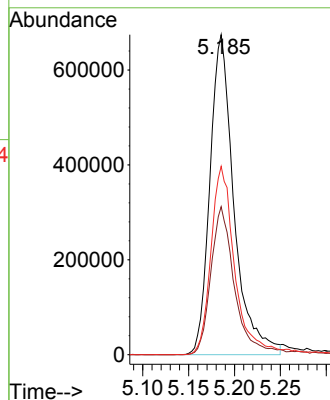
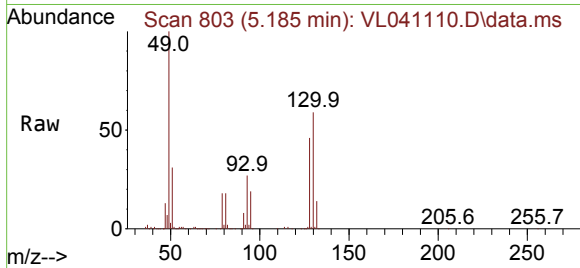




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.185 min Scan# 80
 Delta R.T. 0.003 min
 Lab File: VL041110.D
 Acq: 14 Mar 2024 17:04

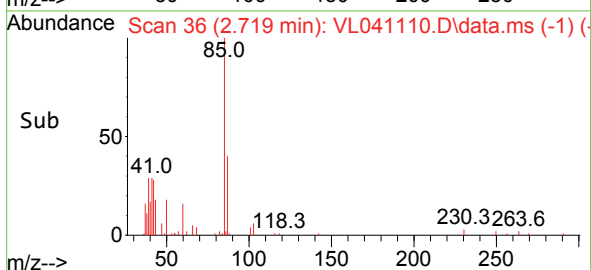
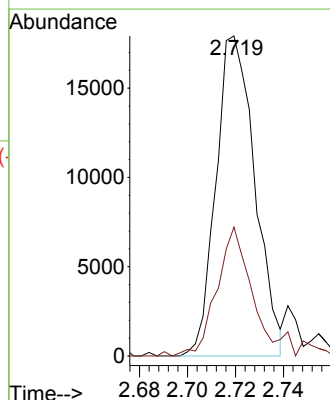
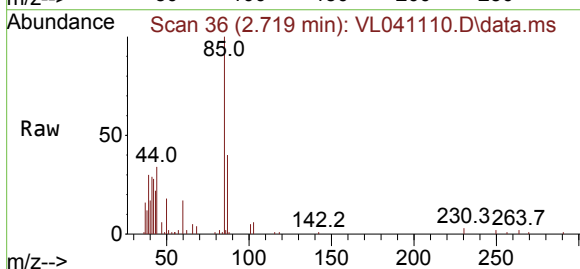
Instrument :
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 SVP-03

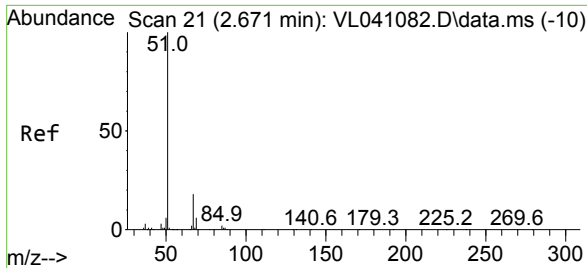
Tgt Ion: 49 Resp: 1227809
 Ion Ratio Lower Upper
 49 100
 128 46.7 23.8 71.5
 130 61.1 30.3 90.9



#2
 Dichlorodifluoromethane
 Concen: 0.086 ppbv
 RT: 2.719 min Scan# 36
 Delta R.T. 0.000 min
 Lab File: VL041110.D
 Acq: 14 Mar 2024 17:04

Tgt Ion: 85 Resp: 20216
 Ion Ratio Lower Upper
 85 100
 87 39.3 28.1 42.1

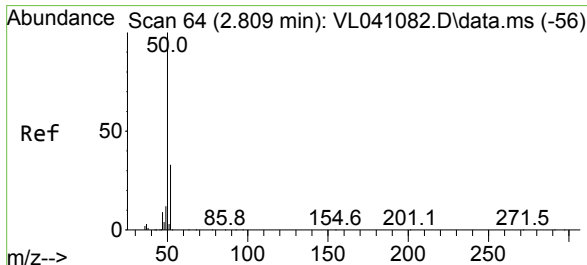
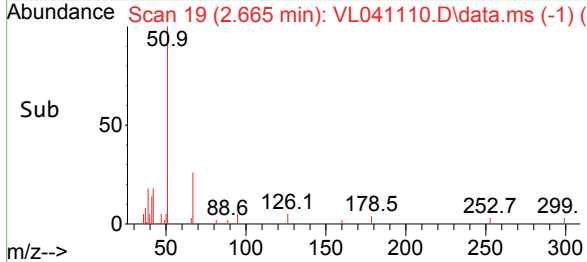
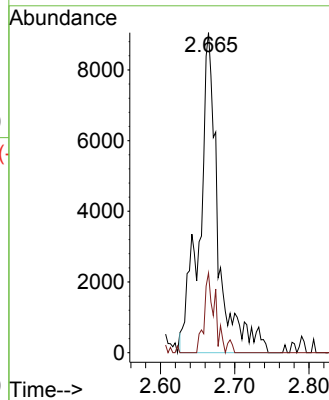
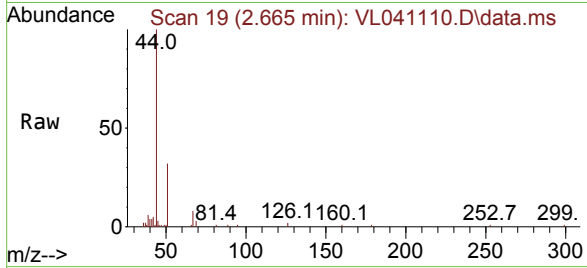




#3
Chlorodifluoromethane
Concen: 0.088 ppbv
RT: 2.665 min Scan# 19
Delta R.T. 0.003 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

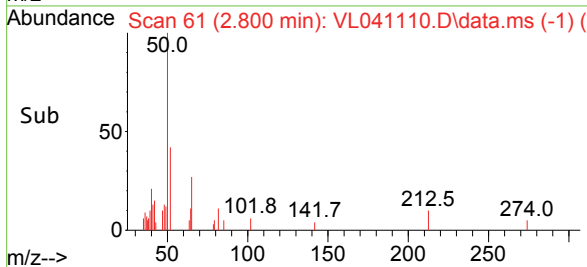
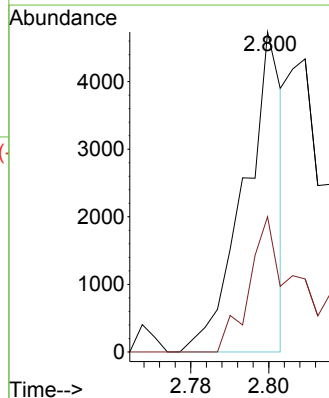
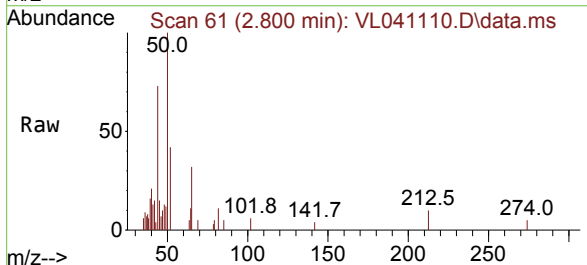
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

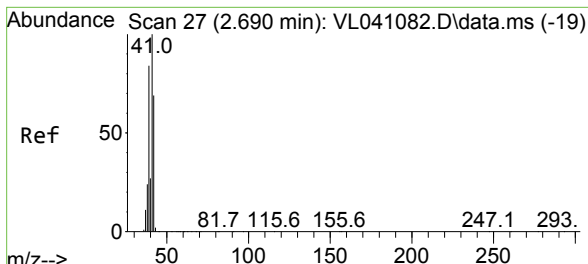
Tgt Ion: 51 Resp: 15897
Ion Ratio Lower Upper
51 100
67 14.9 14.5 21.7



#4
Chloromethane
Concen: 0.047 ppbv
RT: 2.800 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion: 50 Resp: 3177
Ion Ratio Lower Upper
50 100
52 42.3 26.6 40.0#

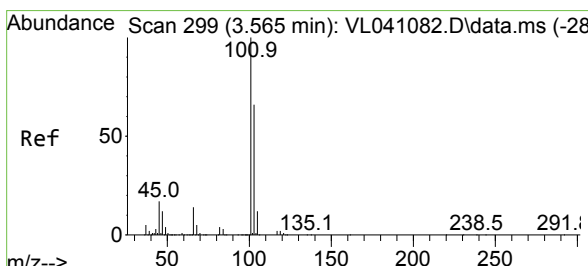
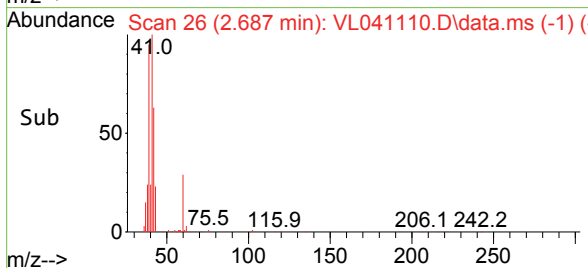
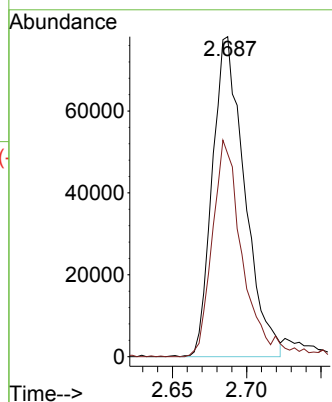
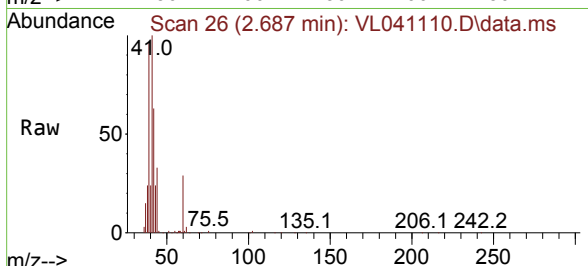




#9
 Propene
 Concen: 1.965 ppbv
 RT: 2.687 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VL041110.D
 Acq: 14 Mar 2024 17:04

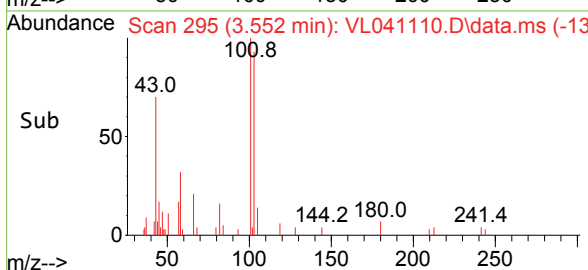
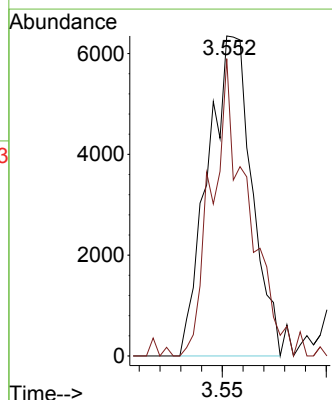
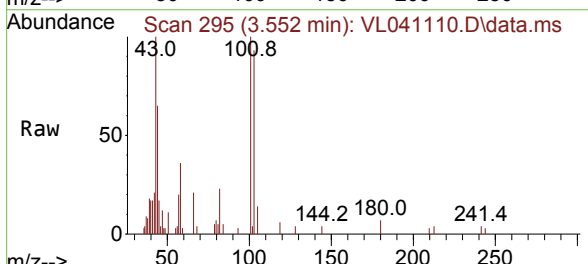
Instrument :
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 ClientSampleId :
 SVP-03

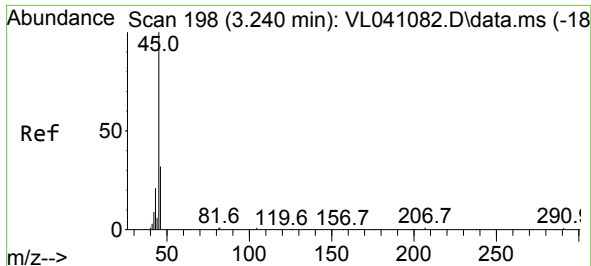
Tgt Ion: 41 Resp: 117982
 Ion Ratio Lower Upper
 41 100
 42 65.0 55.9 83.9



#11
 Trichlorofluoromethane
 Concen: 0.052 ppbv
 RT: 3.552 min Scan# 295
 Delta R.T. 0.000 min
 Lab File: VL041110.D
 Acq: 14 Mar 2024 17:04

Tgt Ion: 101 Resp: 9322
 Ion Ratio Lower Upper
 101 100
 103 92.9 53.0 79.4#

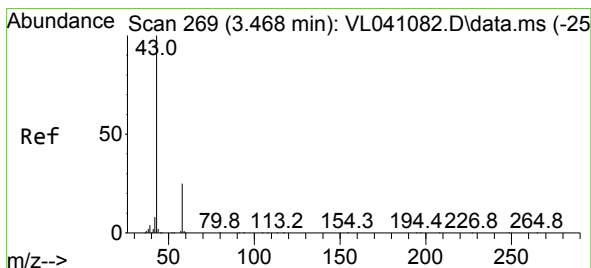
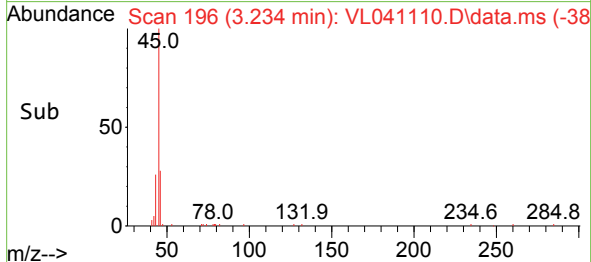
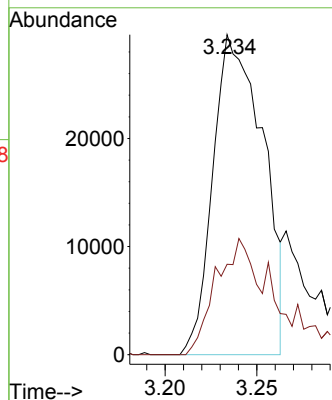
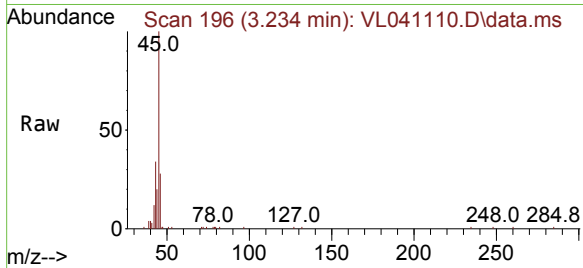




#13
Ethanol
Concen: 3.499 ppbv
RT: 3.234 min Scan# 198
Delta R.T. 0.006 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

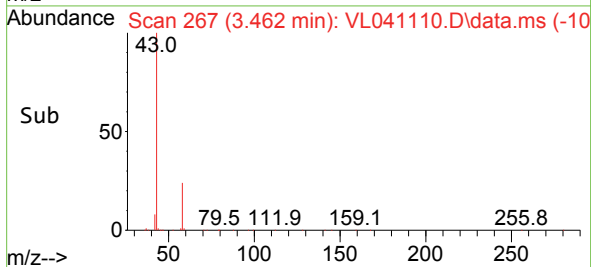
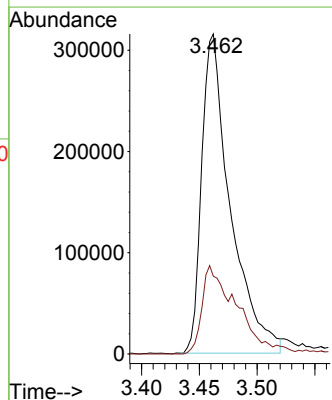
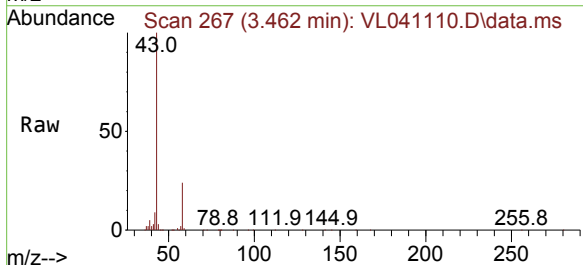
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

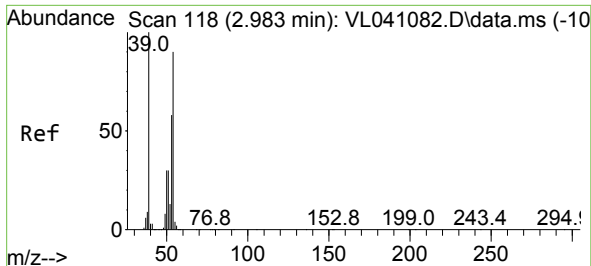
Tgt Ion: 45 Resp: 56001
Ion Ratio Lower Upper
45 100
46 49.9 14.6 58.2



#15
Acetone
Concen: 3.903 ppbv
RT: 3.462 min Scan# 267
Delta R.T. 0.006 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion: 43 Resp: 545943
Ion Ratio Lower Upper
43 100
58 35.1 21.7 32.5#

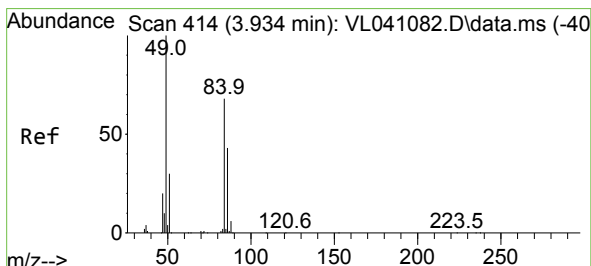
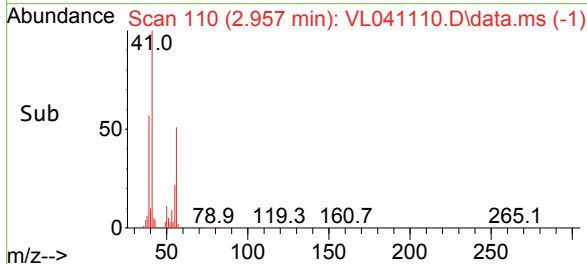
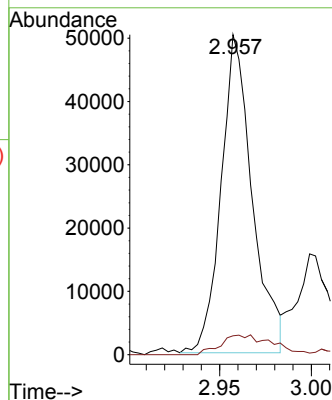
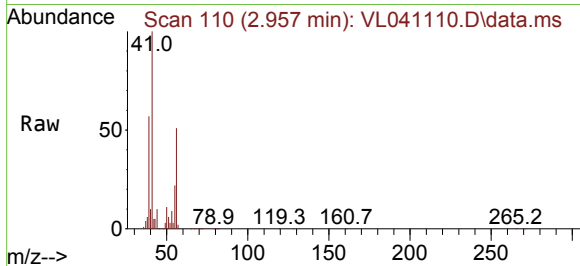




#16
1,3-Butadiene
Concen: 0.935 ppbv
RT: 2.957 min Scan# 118
Delta R.T. -0.016 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

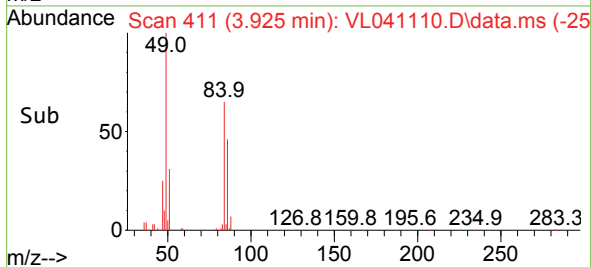
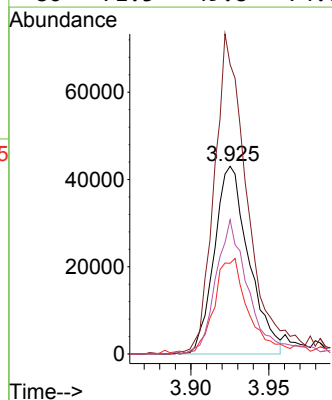
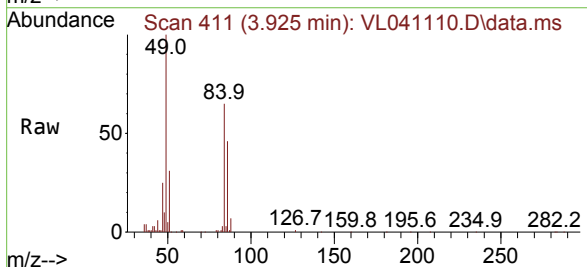
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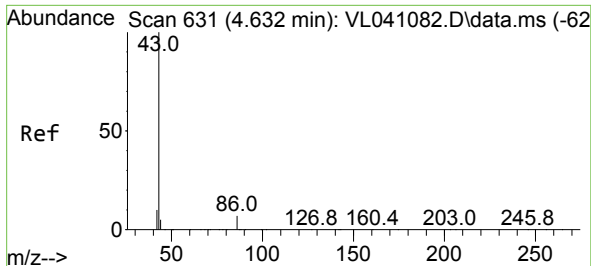
Tgt Ion: 39 Resp: 59356
Ion Ratio Lower Upper
39 100
54 11.1 64.0 96.0#



#20
Methylene Chloride
Concen: 1.217 ppbv
RT: 3.925 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion: 84 Resp: 66381
Ion Ratio Lower Upper
84 100
49 153.1 117.0 175.6
51 46.8 34.9 52.3
86 71.5 49.8 74.6

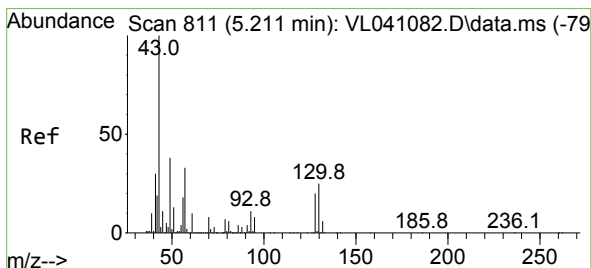
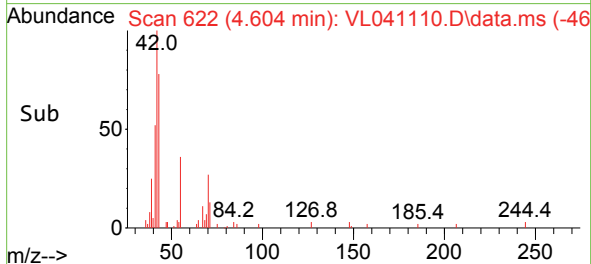
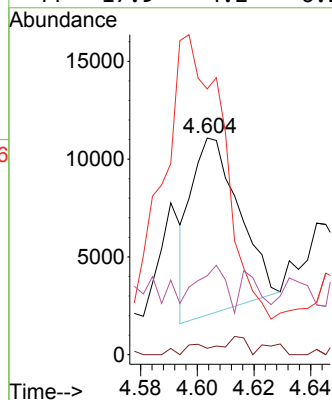
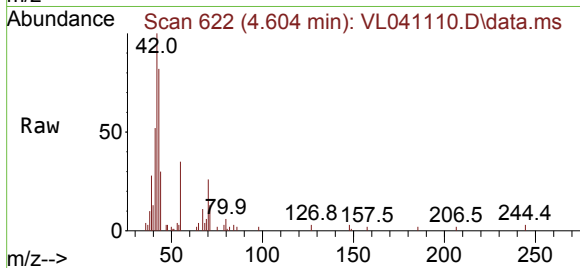




#23
Vinyl Acetate
Concen: 0.067 ppbv
RT: 4.604 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

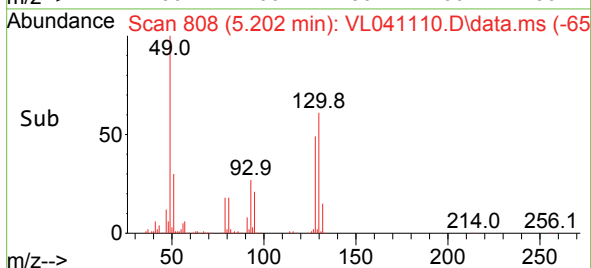
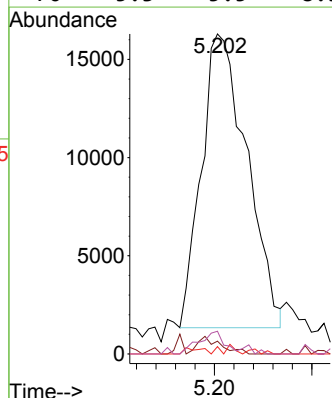
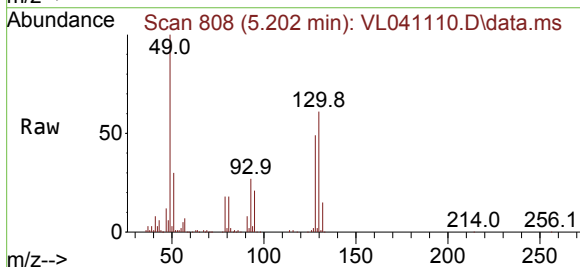
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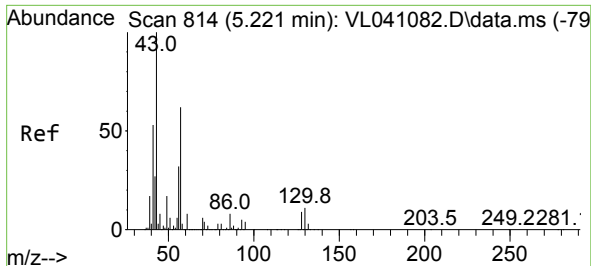
Tgt Ion:	43	Resp:	10569
Ion	Ratio	Lower	Upper
43	100		
86	4.2	5.4	8.2#
42	145.8	8.0	12.0#
44	17.9	4.2	6.2#



#25
Ethyl Acetate
Concen: 0.096 ppbv
RT: 5.202 min Scan# 808
Delta R.T. 0.006 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion:	43	Resp:	24172
Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.2	12.2#
61	2.1	8.2	12.2#
70	5.3	5.5	8.3#

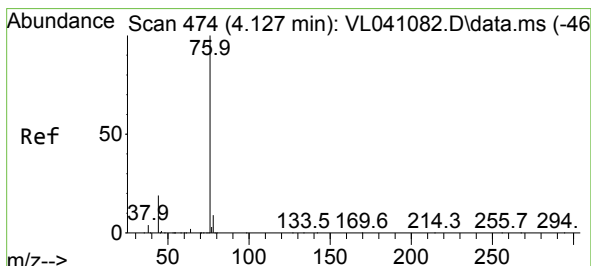
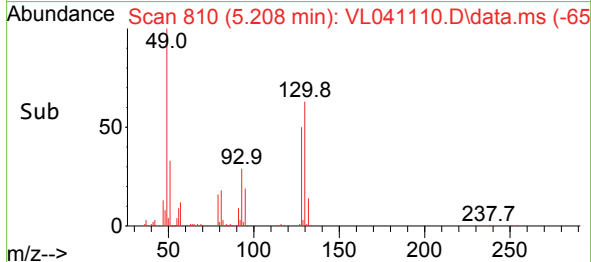
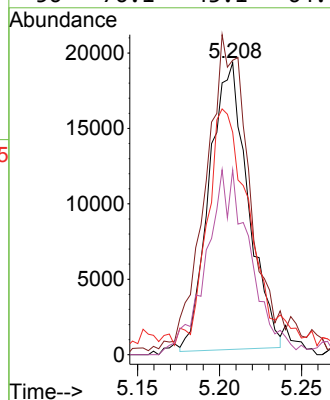
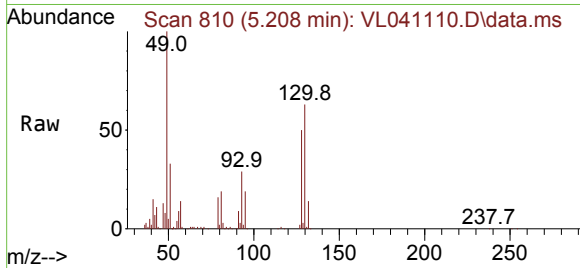




#26
Hexane
Concen: 0.277 ppbv
RT: 5.208 min Scan# 814
Delta R.T. 0.006 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

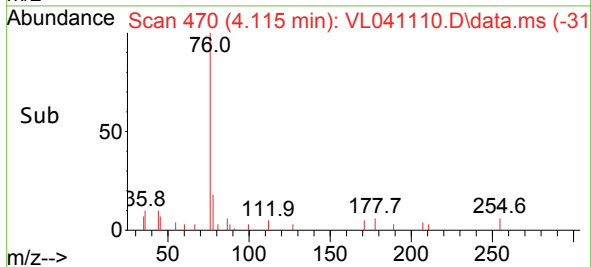
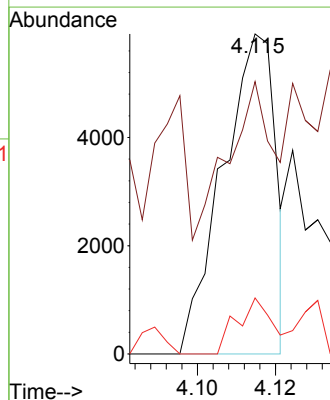
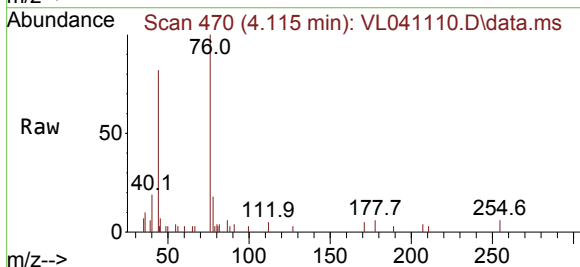
Instrument :
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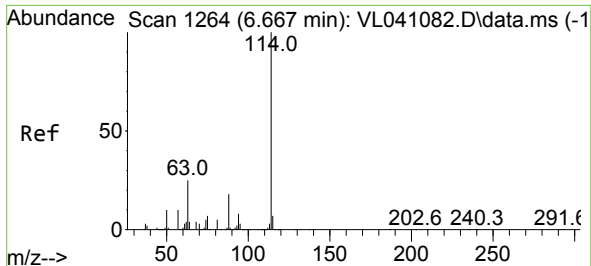
Tgt Ion: 57 Resp: 31180
Ion Ratio Lower Upper
57 100
41 136.7 73.8 110.6#
43 94.8 184.2 276.2#
56 76.1 43.1 64.7#



#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.115 min Scan# 470
Delta R.T. 0.003 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion: 76 Resp: 5580
Ion Ratio Lower Upper
76 100
44 0.0 16.0 24.0#
78 24.2 7.5 11.3#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.648 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL041110.D

Acq: 14 Mar 2024 17:04

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

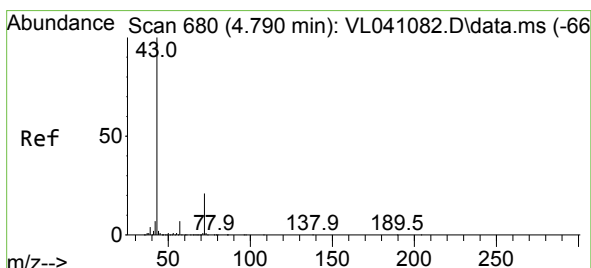
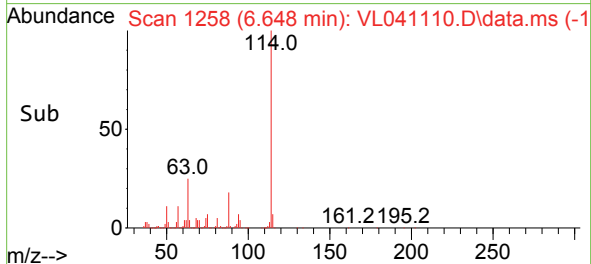
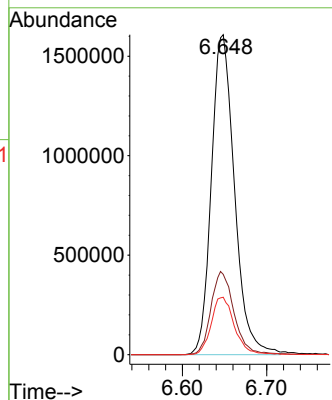
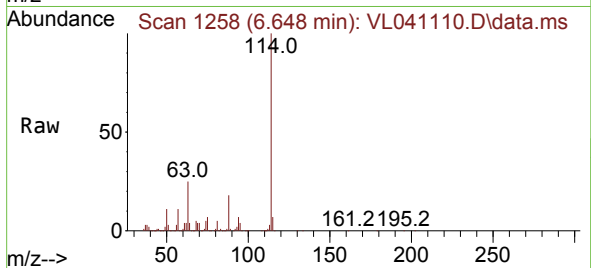
Tgt Ion:114 Resp: 3064545

Ion Ratio Lower Upper

114 100

63 26.2 21.0 31.6

88 18.2 14.6 22.0



#34

2-Butanone

Concen: 4.652 ppbv

RT: 4.780 min Scan# 677

Delta R.T. 0.006 min

Lab File: VL041110.D

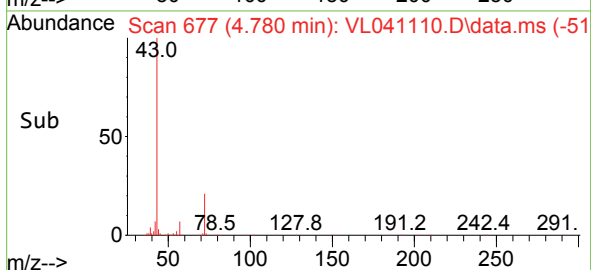
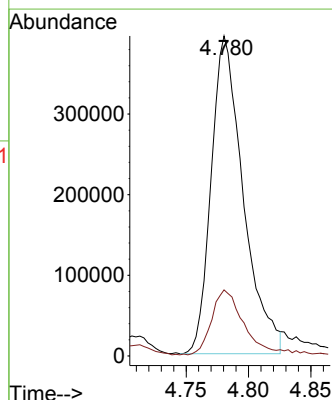
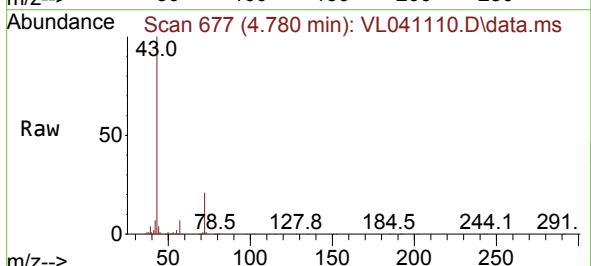
Acq: 14 Mar 2024 17:04

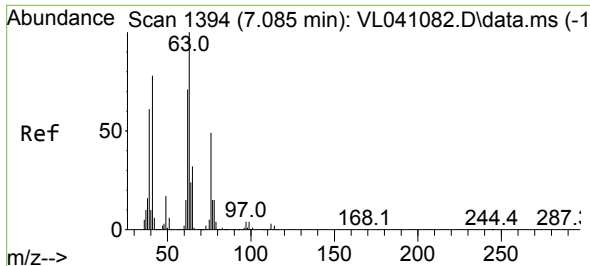
Tgt Ion: 43 Resp: 705806

Ion Ratio Lower Upper

43 100

72 23.0 17.4 26.0





#39

1,2-Dichloropropane

Concen: 8.593 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041110.D

Acq: 14 Mar 2024 17:04

Instrument :

MSVOA_L

ClientSampleId :

SVP-03

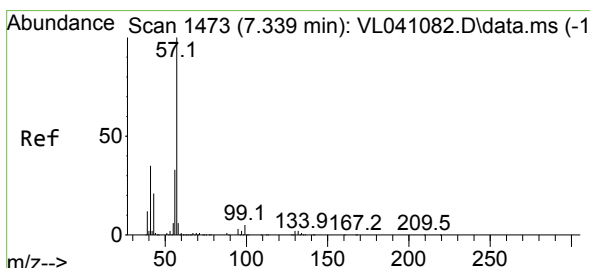
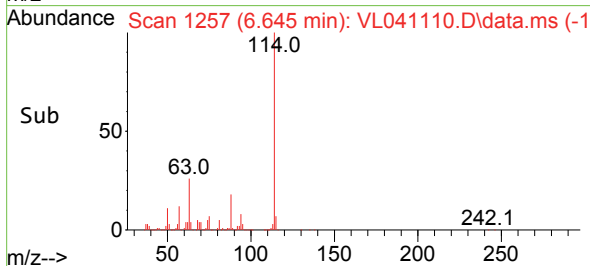
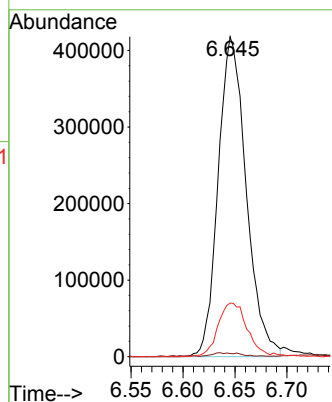
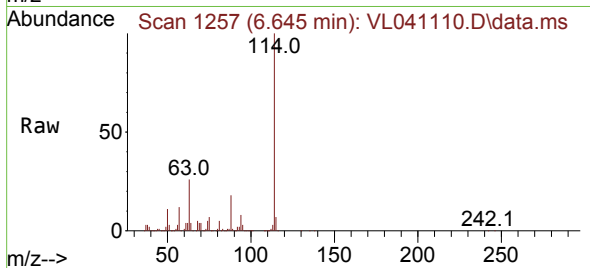
Tgt Ion: 63 Resp: 784068

Ion Ratio Lower Upper

63 100

41 0.9 62.2 93.4#

62 16.8 57.0 85.4#



#44

2,2,4-Trimethylpentane

Concen: 0.460 ppbv

RT: 7.320 min Scan# 1467

Delta R.T. 0.003 min

Lab File: VL041110.D

Acq: 14 Mar 2024 17:04

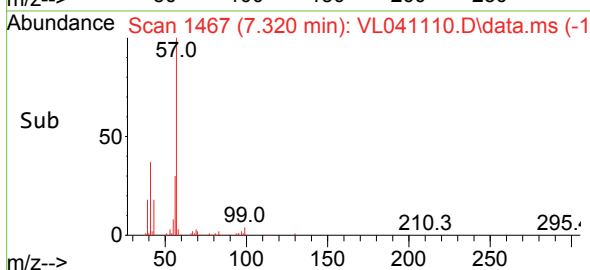
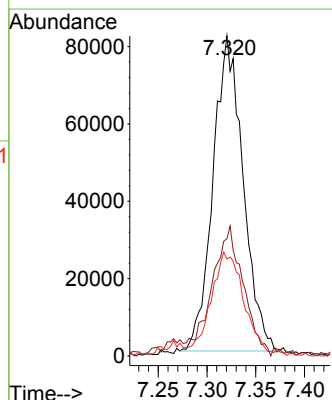
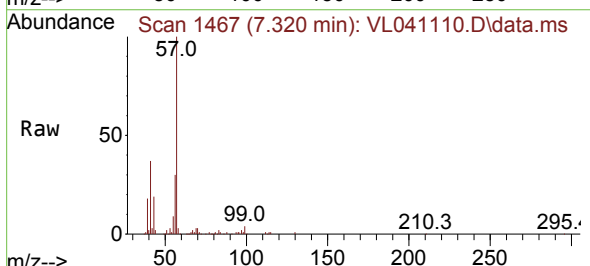
Tgt Ion: 57 Resp: 175069

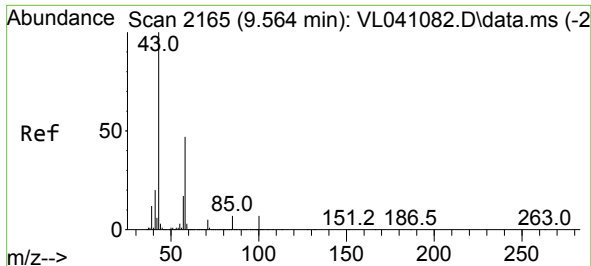
Ion Ratio Lower Upper

57 100

41 48.8 28.0 42.0#

56 40.9 25.7 38.5#

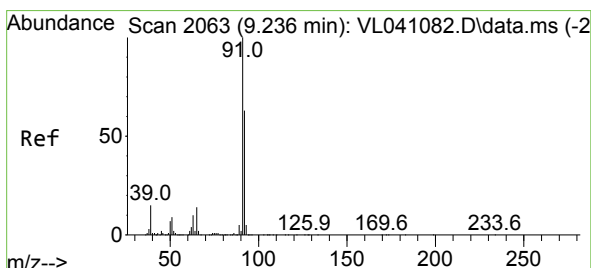
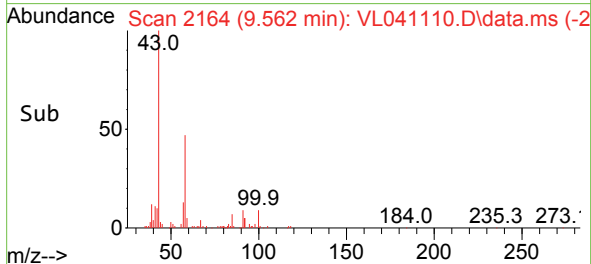
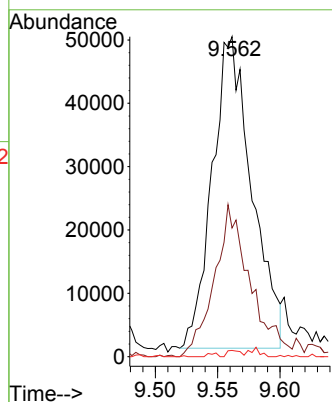
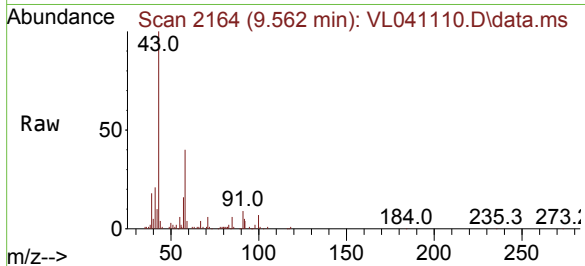




#51
2-Hexanone
Concen: 0.664 ppbv
RT: 9.562 min Scan# 2165
Delta R.T. 0.023 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

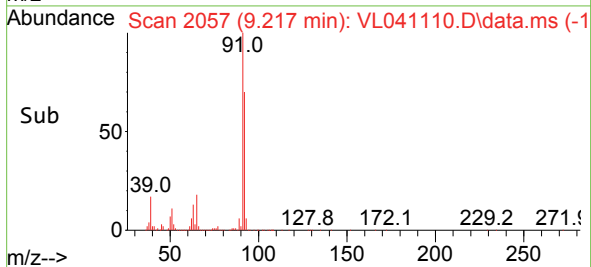
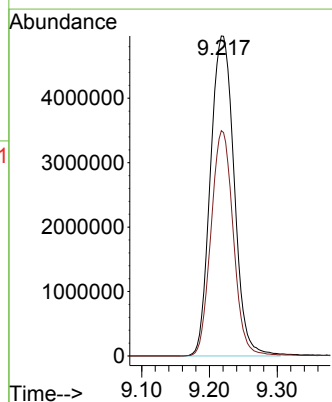
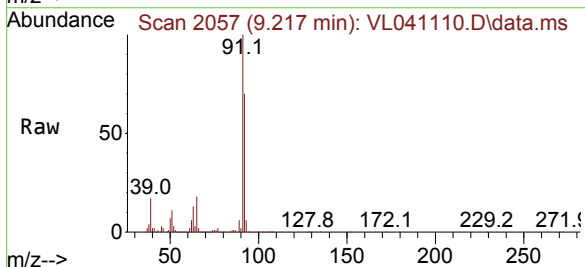
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

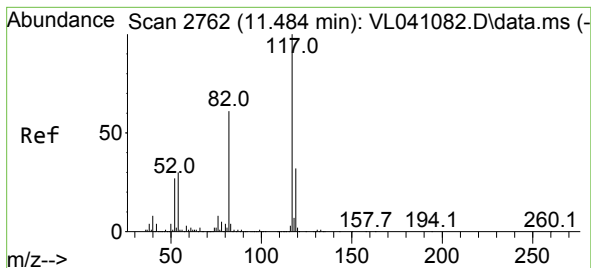
Tgt Ion: 43 Resp: 108795
Ion Ratio Lower Upper
43 100
58 46.9 37.4 56.2
98 1.8 0.4 0.6#



#53
Toluene
Concen: 48.988 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. 0.006 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion: 91 Resp:12045366
Ion Ratio Lower Upper
91 100
92 66.4 48.9 73.3

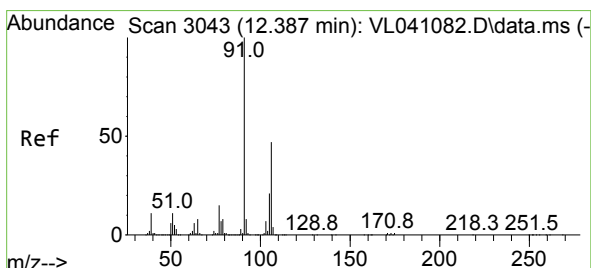
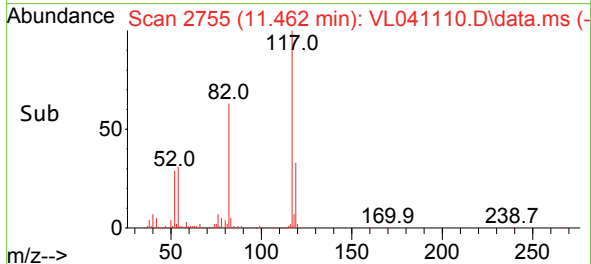
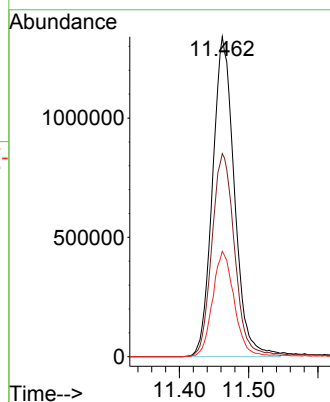
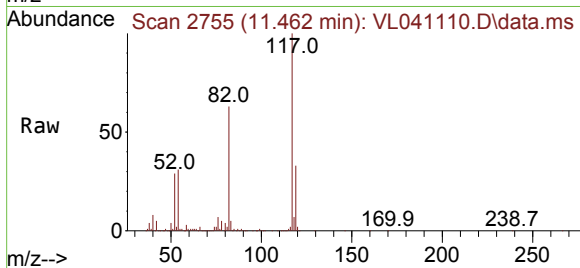




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

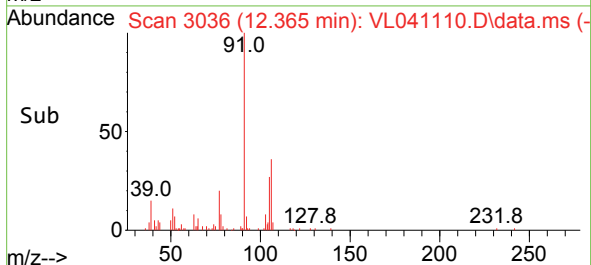
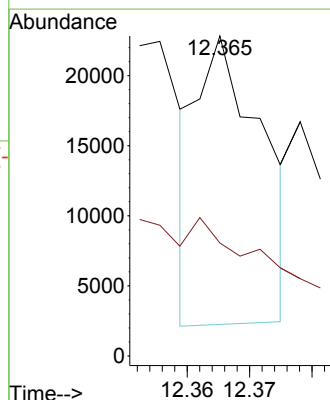
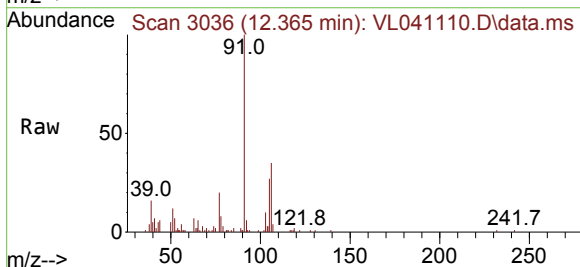
Instrument :
MSVOA_L
ClientSampleId :
SVP-03

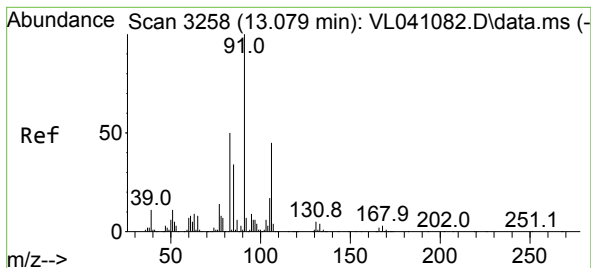
Tgt Ion:117 Resp: 2942492
Ion Ratio Lower Upper
117 100
82 67.3 51.4 77.2
119 33.4 23.7 35.5



#59
m/p-Xylene
Concen: 0.049 ppbv
RT: 12.365 min Scan# 3036
Delta R.T. 0.003 min
Lab File: VL041110.D
Acq: 14 Mar 2024 17:04

Tgt Ion: 91 Resp: 14923
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#





#60

o-Xylene

Concen: 0.119 ppbv

RT: 13.057 min Scan# 31

Delta R.T. 0.006 min

Lab File: VL041110.D

Acq: 14 Mar 2024 17:04

Instrument :

MSVOA_L

ClientSampleId :

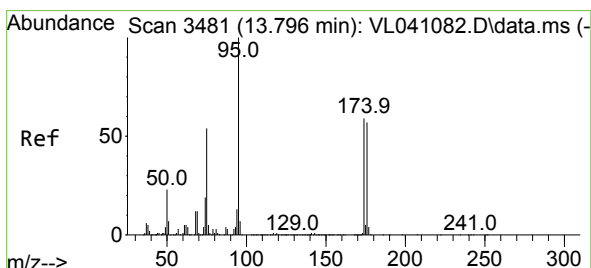
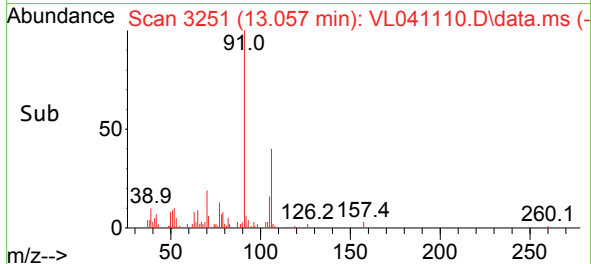
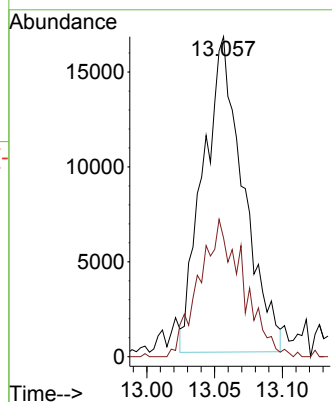
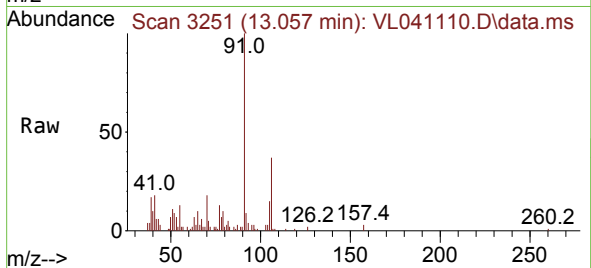
SVP-03

Tgt Ion: 91 Resp: 34264

Ion Ratio Lower Upper

91 100

106 47.7 22.4 67.3



#68

1-Bromo-4-Fluorobenzene

Concen: 10.208 ppbv

RT: 13.770 min Scan# 3473

Delta R.T. 0.006 min

Lab File: VL041110.D

Acq: 14 Mar 2024 17:04

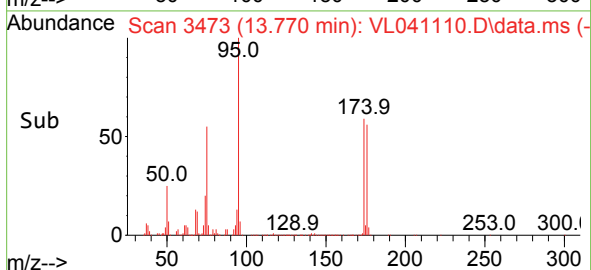
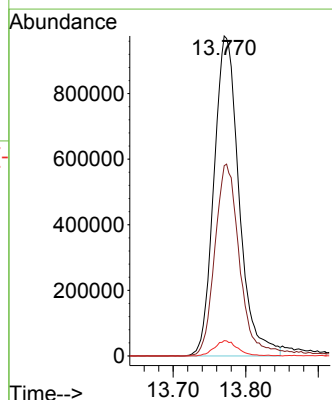
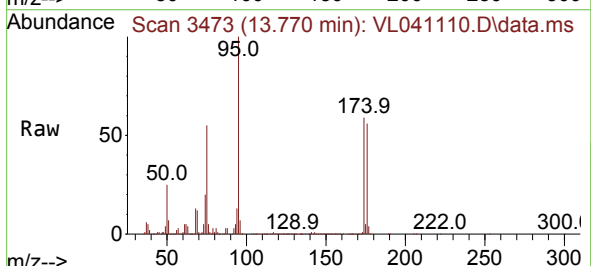
Tgt Ion: 95 Resp: 2348484

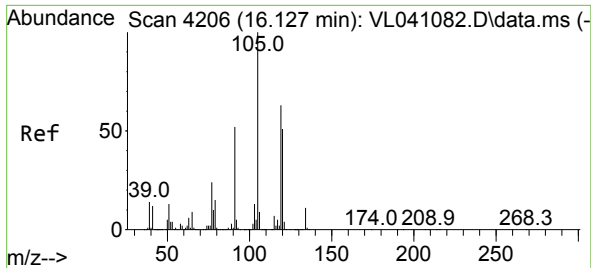
Ion Ratio Lower Upper

95 100

174 61.3 47.8 71.8

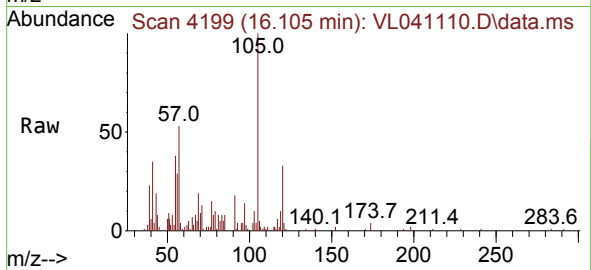
175 4.5 3.5 5.3





#74
 1,2,4-Trimethylbenzene
 Concen: 0.103 ppbv
 RT: 16.105 min Scan# 4199
 Delta R.T. 0.006 min
 Lab File: VL041110.D
 Acq: 14 Mar 2024 17:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03



Tgt Ion:	105	Resp:	33046
Ion	Ratio	Lower	Upper
105	100		
120	36.5	40.4	60.6#
91	12.6	41.4	62.0#
77	6.1	19.0	28.4#

