

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL062223\
 Data File : VL040489.D
 Acq On : 22 Jun 2023 17:23
 Operator : SY/MD
 Sample : 03300-03DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AI-1DL

Quant Time: Jun 23 01:31:32 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)

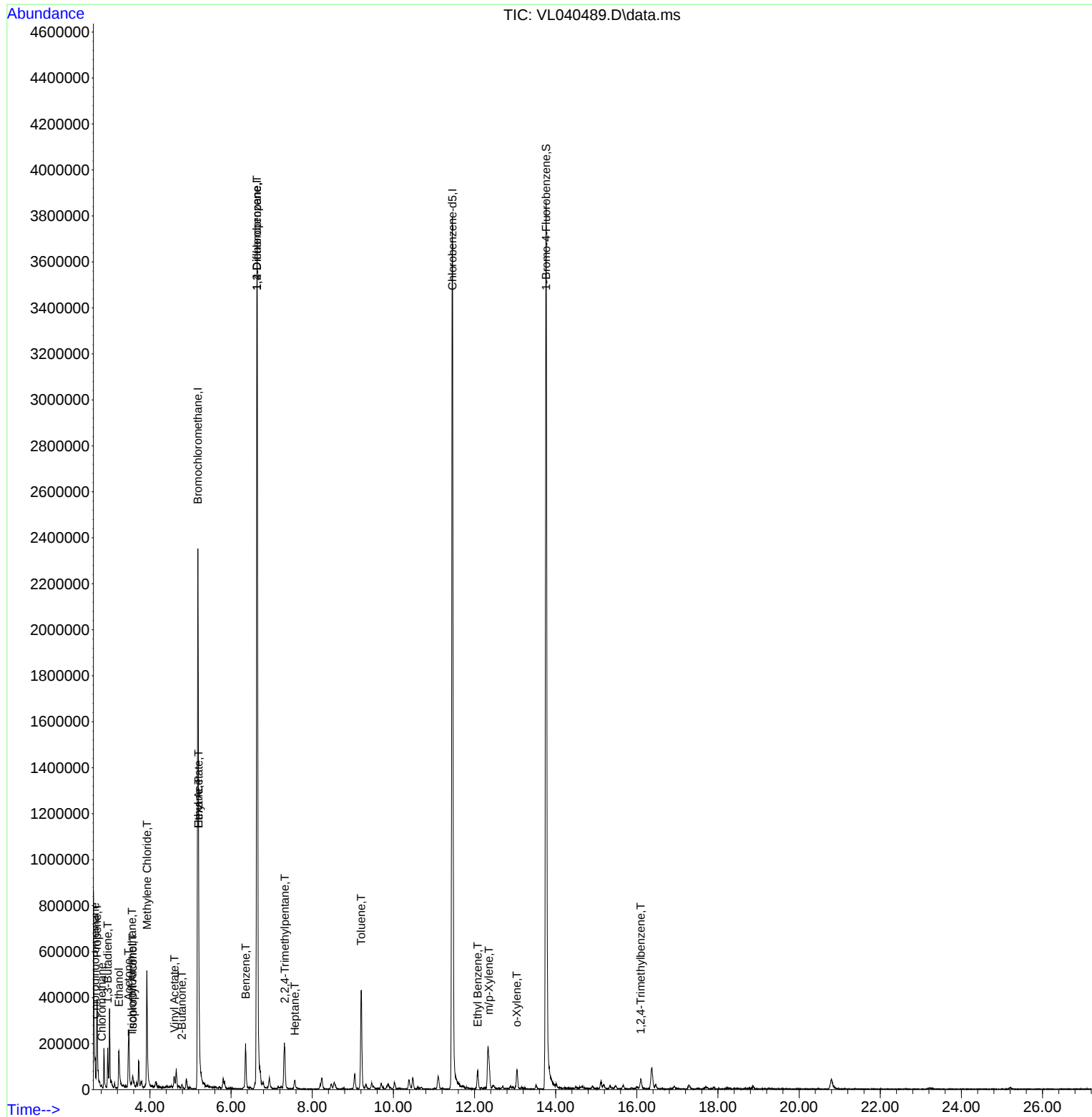
Internal Standards						
1) Bromochloromethane	5.182	49	1098161	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.639	114	2771009	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.452	117	2444091	10.000	ppbv	-0.03
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1982383	9.827	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.652	51	47740	0.265	ppbv #	69
4) Chloromethane	2.812	50	9030	0.130	ppbv #	80
9) Propene	2.693	41	134442	2.424	ppbv	86
10) Heptane	7.568	43	9333	0.074	ppbv #	60
11) Trichlorofluoromethane	3.558	101	8378	0.043	ppbv #	70
13) Ethanol	3.237	45	179194	15.601	ppbv	94
15) Acetone	3.468	43	200329	1.512	ppbv	94
16) 1,3-Butadiene	2.960	39	48914	0.759	ppbv #	34
19) Isopropyl Alcohol	3.578	45	43834	0.687	ppbv #	79
20) Methylene Chloride	3.928	84	167799	2.968	ppbv	96
23) Vinyl Acetate	4.603	43	14267	0.110	ppbv #	1
25) Ethyl Acetate	5.201	43	74091	0.309	ppbv #	84
26) Hexane	5.201	57	102566	0.902	ppbv #	46
34) 2-Butanone	4.787	43	14599	0.109	ppbv #	83
36) Benzene	6.359	78	150324	0.682	ppbv	94
39) 1,2-Dichloropropane	6.639	63	689005	8.109	ppbv #	22
44) 2,2,4-Trimethylpentane	7.324	57	61146	0.170	ppbv #	9
53) Toluene	9.208	91	282210	1.216	ppbv	100
58) Ethyl Benzene	12.076	91	43704	0.148	ppbv	96
59) m/p-Xylene	12.355	91	57920	0.213	ppbv #	33
60) o-Xylene	13.040	91	26849	0.104	ppbv #	32
74) 1,2,4-Trimethylbenzene	16.098	105	19455	0.064	ppbv #	68

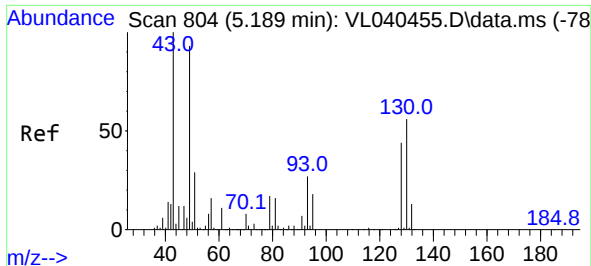
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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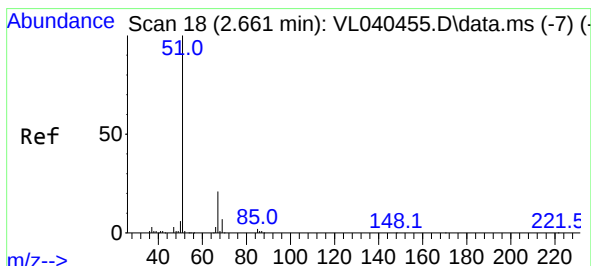
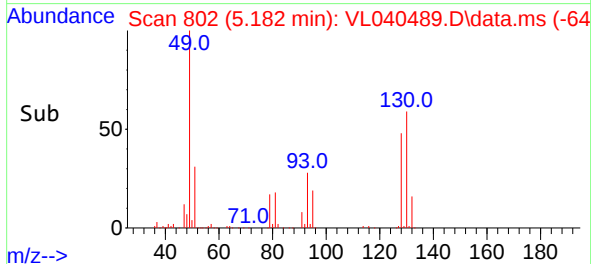
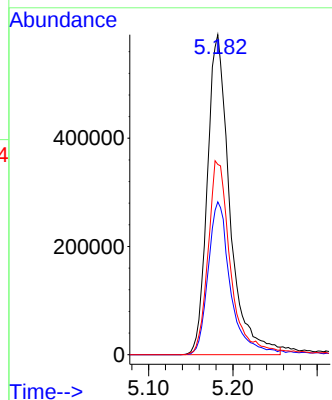
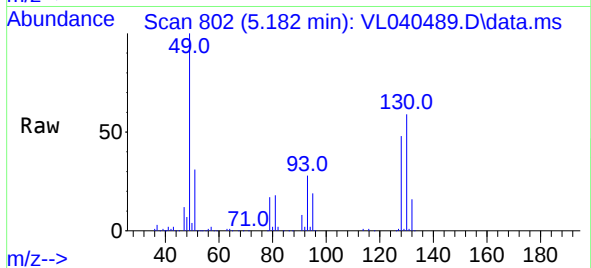




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.182 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

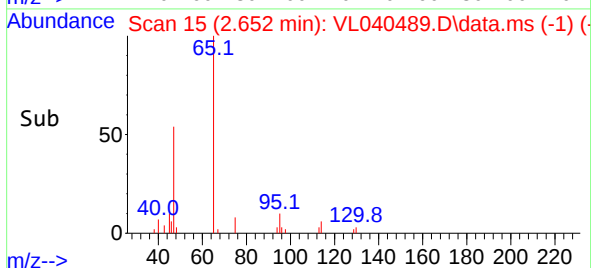
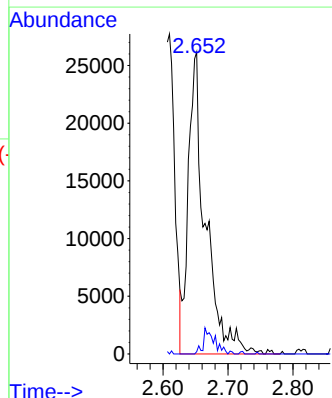
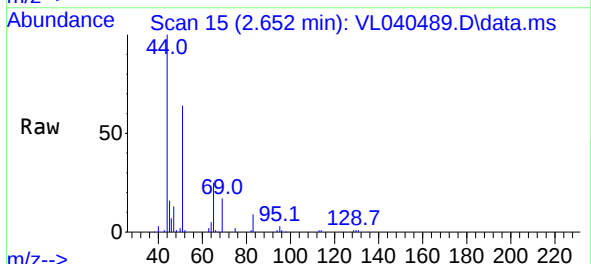
Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

Tgt Ion: 49 Resp: 1098161
Ion Ratio Lower Upper
49 100
128 49.3 24.7 74.1
130 62.2 31.4 94.2

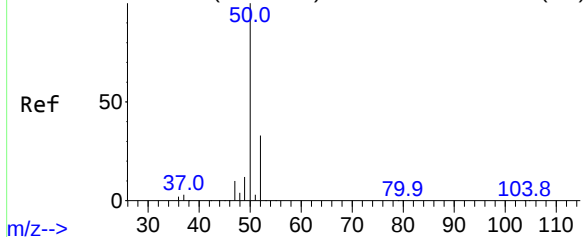


#3
Chlorodifluoromethane
Concen: 0.265 ppbv
RT: 2.652 min Scan# 15
Delta R.T. -0.010 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 51 Resp: 47740
Ion Ratio Lower Upper
51 100
67 5.9 16.3 24.5



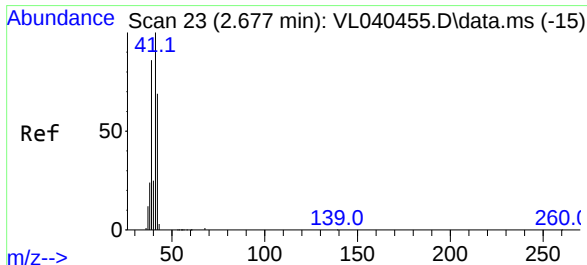
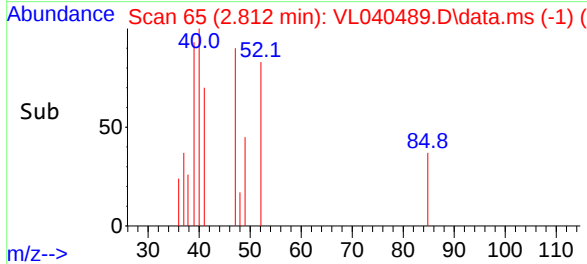
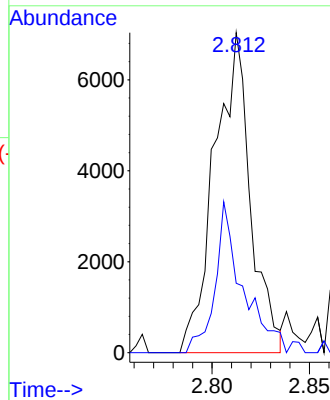
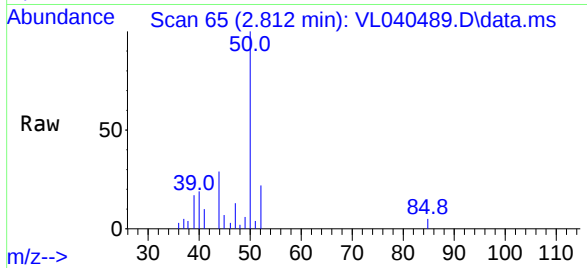
Abundance Scan 61 (2.800 min): VL040455.D\data.ms (-52)



#4
Chloromethane
Concen: 0.130 ppbv
RT: 2.812 min Scan# 61
Delta R.T. 0.013 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

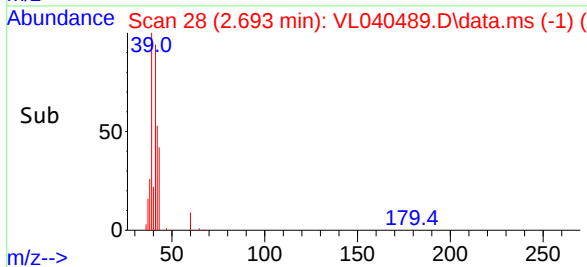
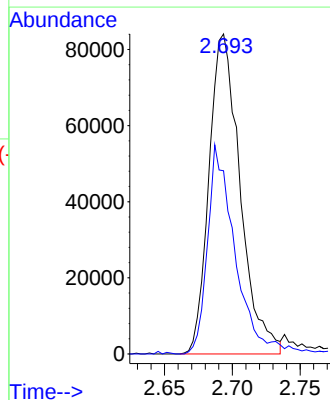
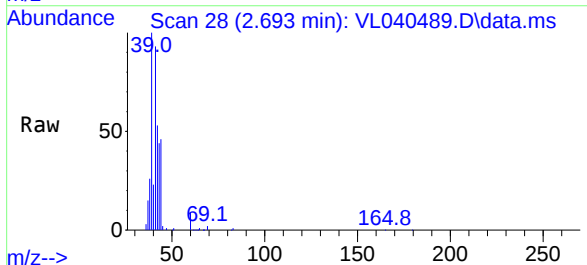
Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

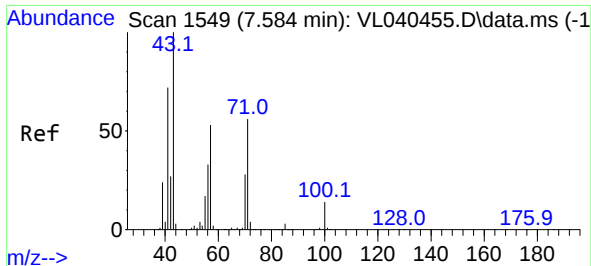
Tgt Ion: 50 Resp: 9030
Ion Ratio Lower Upper
50 100
52 21.7 26.3 39.5#



#9
Propene
Concen: 2.424 ppbv
RT: 2.693 min Scan# 28
Delta R.T. 0.016 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 41 Resp: 134442
Ion Ratio Lower Upper
41 100
42 59.1 56.2 84.2

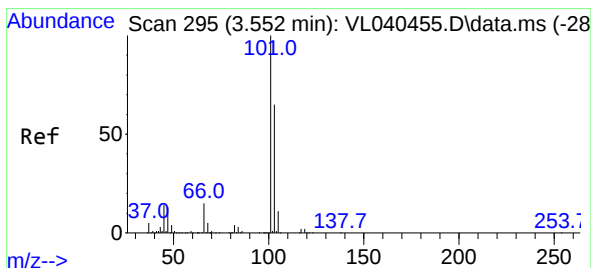
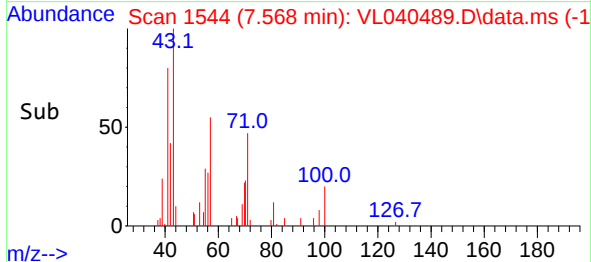
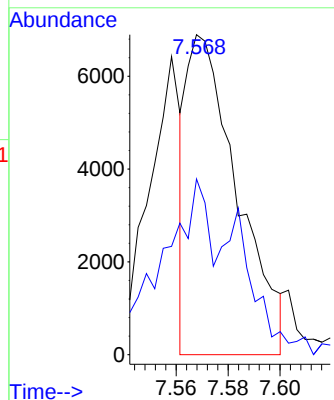
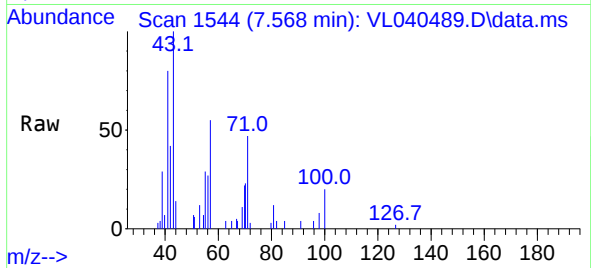




#10
Heptane
Concen: 0.074 ppbv
RT: 7.568 min Scan# 11
Delta R.T. -0.016 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

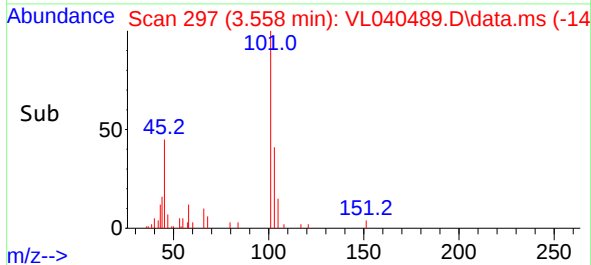
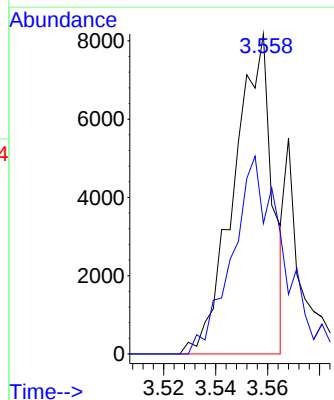
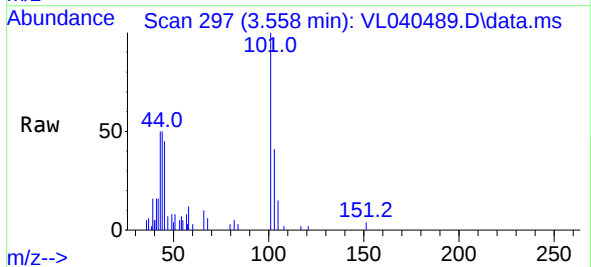
Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

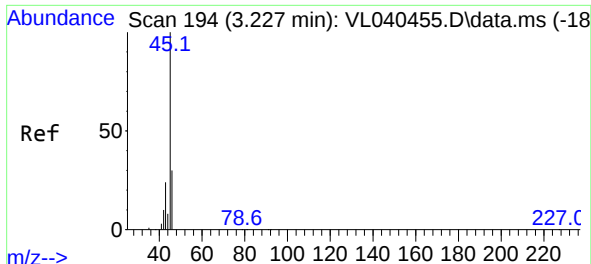
Tgt Ion: 43 Resp: 9333
Ion Ratio Lower Upper
43 100
57 81.8 42.5 63.7#



#11
Trichlorofluoromethane
Concen: 0.043 ppbv
RT: 3.558 min Scan# 297
Delta R.T. 0.006 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion:101 Resp: 8378
Ion Ratio Lower Upper
101 100
103 40.8 51.7 77.5#

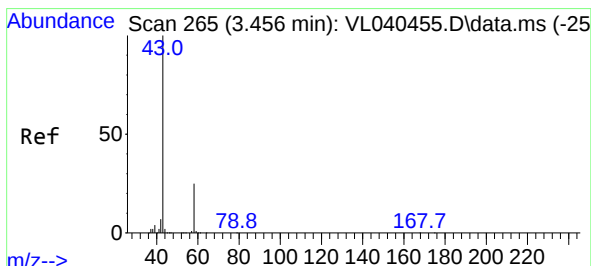
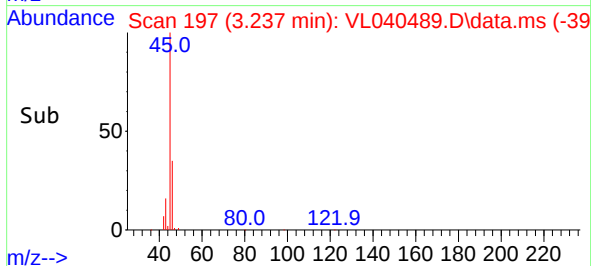
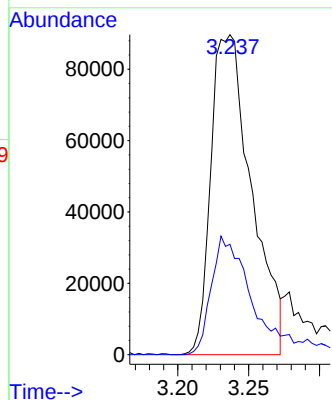
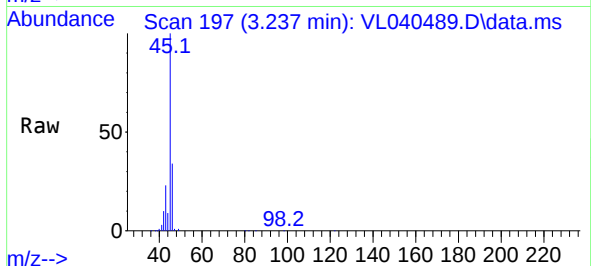




#13
Ethanol
Concen: 15.601 ppbv
RT: 3.237 min Scan# 194
Delta R.T. 0.010 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

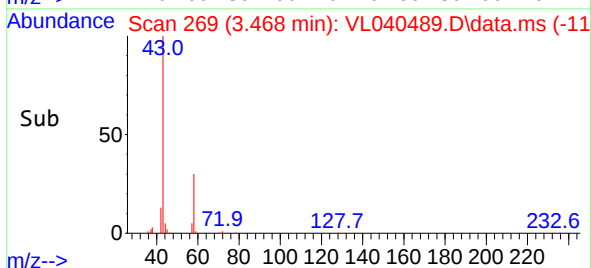
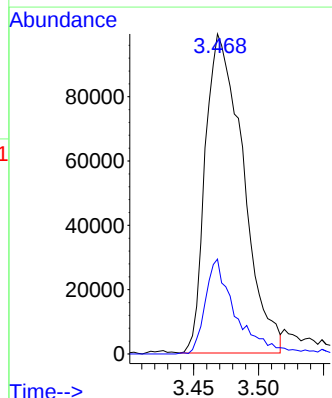
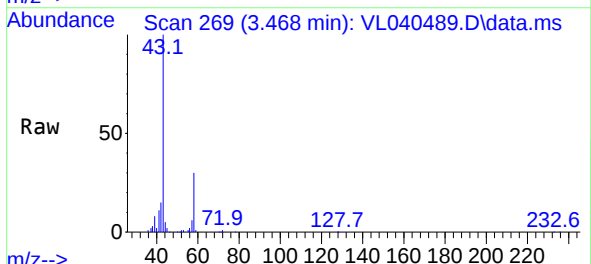
Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

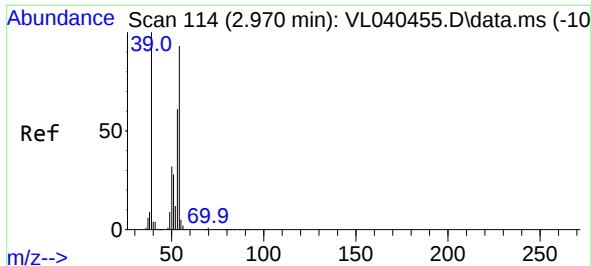
Tgt Ion: 45 Resp: 179194
Ion Ratio Lower Upper
45 100
46 39.9 14.5 58.1



#15
Acetone
Concen: 1.512 ppbv
RT: 3.468 min Scan# 269
Delta R.T. 0.013 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 43 Resp: 200329
Ion Ratio Lower Upper
43 100
58 24.1 21.6 32.4

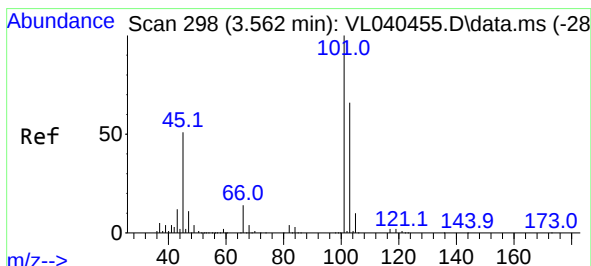
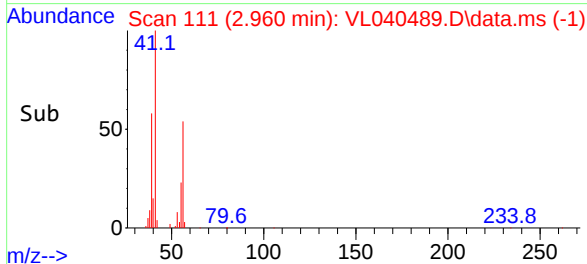
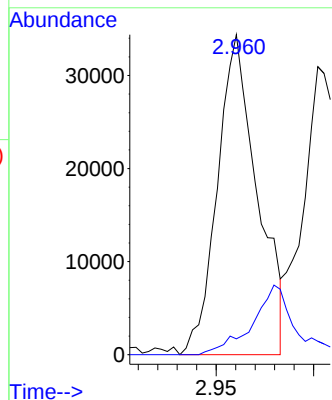
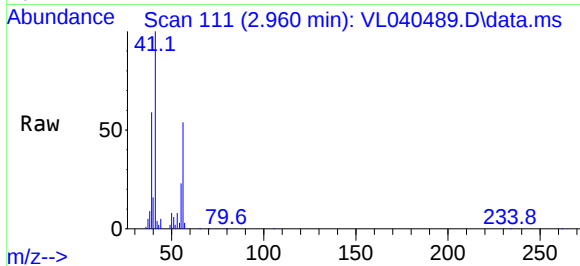




#16
1,3-Butadiene
Concen: 0.759 ppbv
RT: 2.960 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

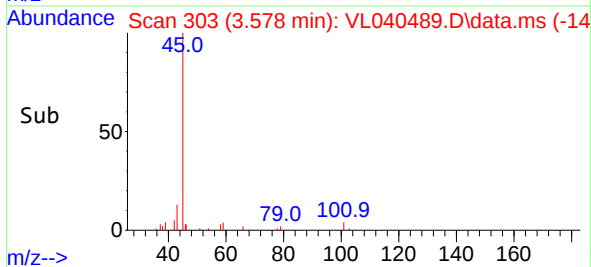
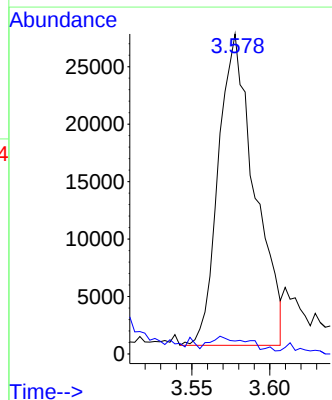
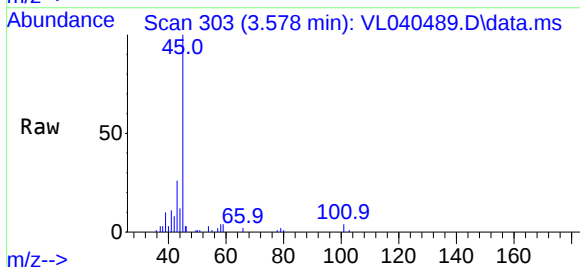
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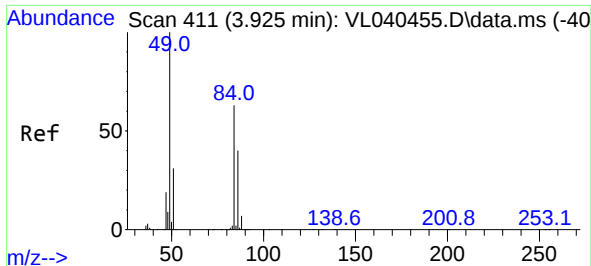
Tgt Ion: 39 Resp: 48914
Ion Ratio Lower Upper
39 100
54 24.0 66.9 100.3#



#19
Isopropyl Alcohol
Concen: 0.687 ppbv
RT: 3.578 min Scan# 303
Delta R.T. 0.016 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 45 Resp: 43834
Ion Ratio Lower Upper
45 100
58 10.1 2.6 4.0#

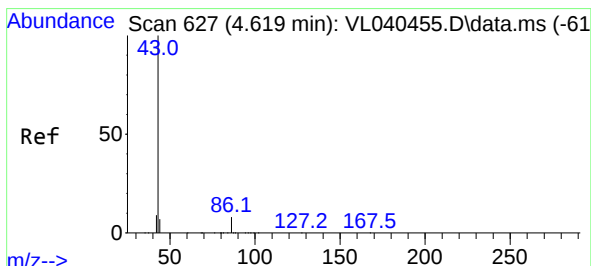
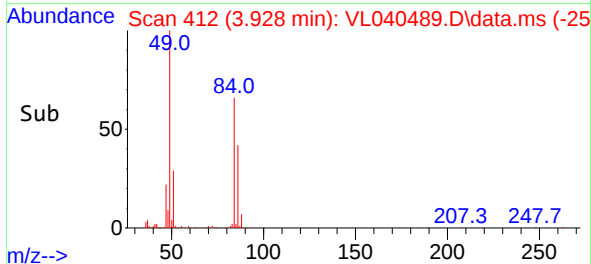
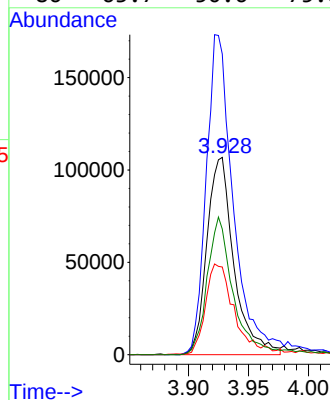
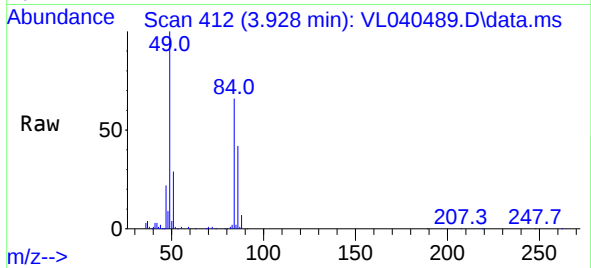




#20
Methylene Chloride
Concen: 2.968 ppbv
RT: 3.928 min Scan# 411
Delta R.T. 0.003 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

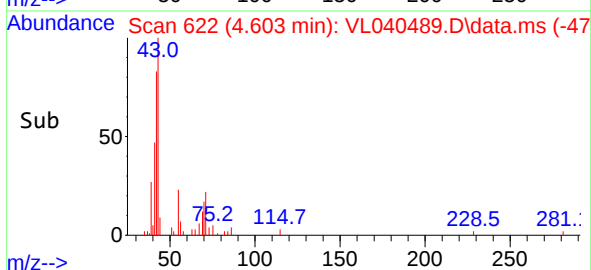
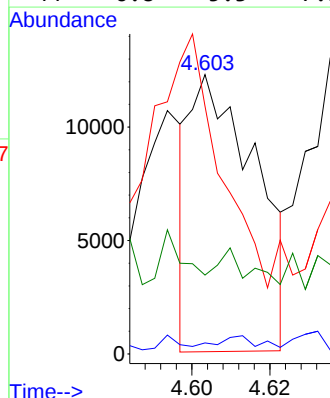
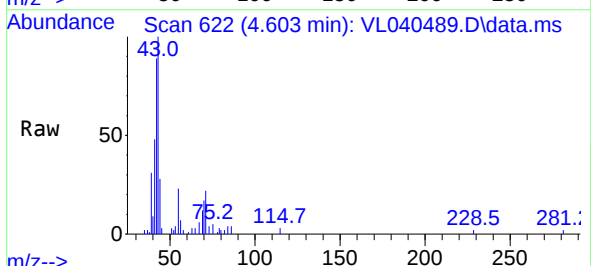
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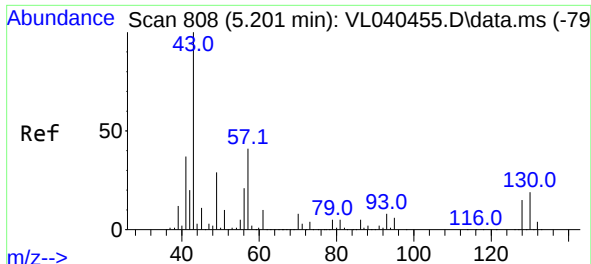
Tgt Ion: 84 Resp: 167799
Ion Ratio Lower Upper
84 100
49 152.4 126.2 189.2
51 44.1 38.7 58.1
86 63.7 50.6 75.8



#23
Vinyl Acetate
Concen: 0.110 ppbv
RT: 4.603 min Scan# 622
Delta R.T. -0.016 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 43 Resp: 14267
Ion Ratio Lower Upper
43 100
86 3.3 5.8 8.6#
42 97.4 7.4 11.2#
44 6.8 5.3 7.9

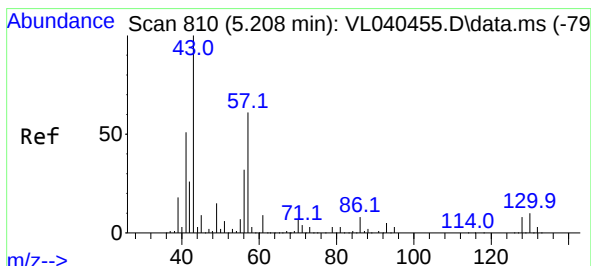
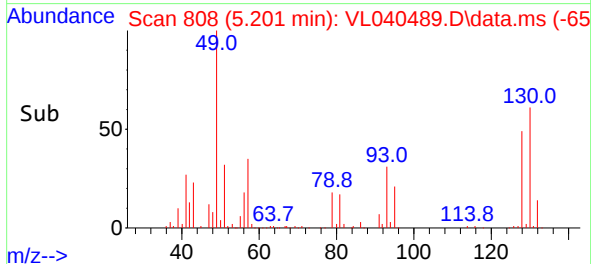
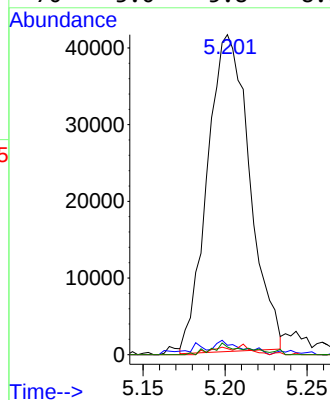
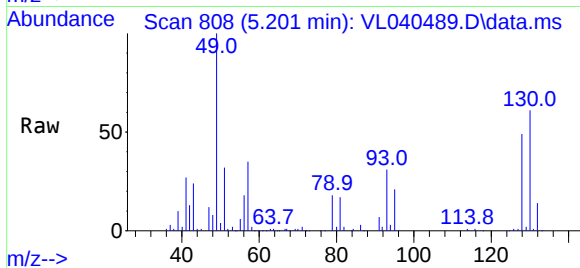




#25
Ethyl Acetate
Concen: 0.309 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.000 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

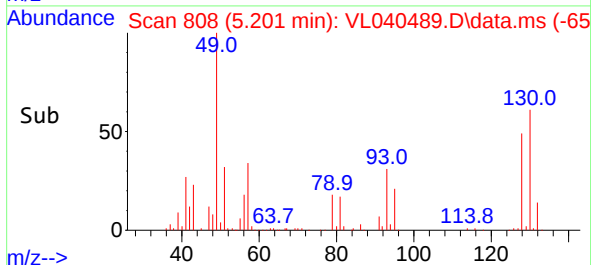
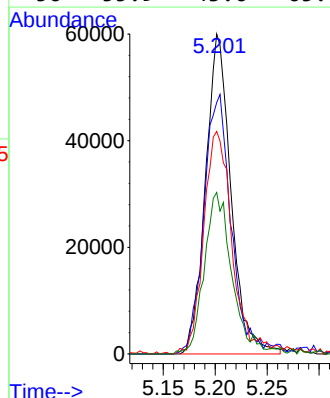
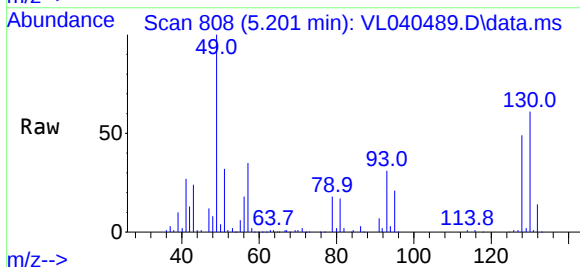
Instrument :
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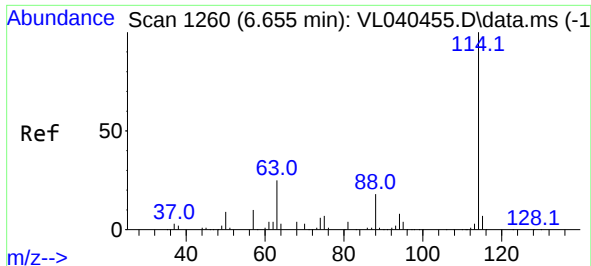
Tgt Ion:	43	Resp:	74091
Ion	Ratio	Lower	Upper
43	100		
45	5.1	8.0	12.0#
61	2.4	8.1	12.1#
70	3.0	5.8	8.6#



#26
Hexane
Concen: 0.902 ppbv
RT: 5.201 min Scan# 808
Delta R.T. -0.006 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion:	57	Resp:	102566
Ion	Ratio	Lower	Upper
57	100		
41	89.3	73.0	109.6
43	79.9	177.5	266.3#
56	55.9	43.6	65.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.016 min

Lab File: VL040489.D

Acq: 22 Jun 2023 17:23

Instrument :

MSVOA_L

ClientSampleId :

AI-1DL

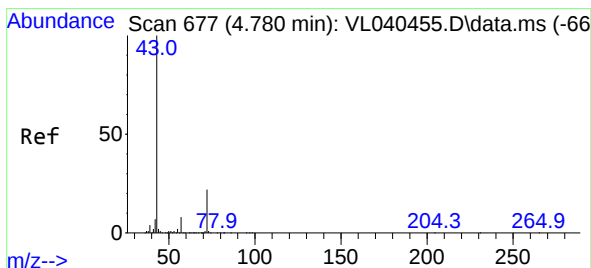
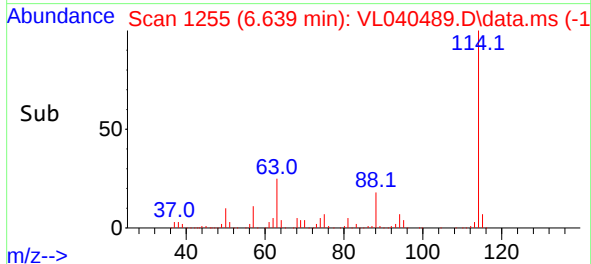
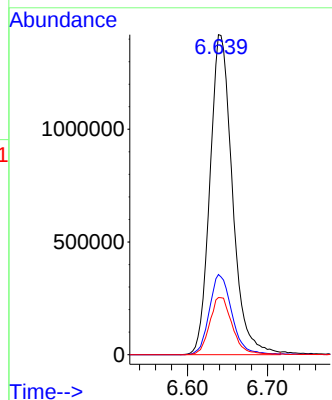
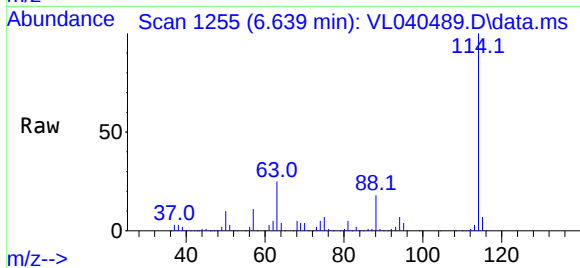
Tgt Ion:114 Resp: 2771009

Ion Ratio Lower Upper

114 100

63 25.4 21.0 31.6

88 18.2 14.5 21.7



#34

2-Butanone

Concen: 0.109 ppbv

RT: 4.787 min Scan# 679

Delta R.T. 0.006 min

Lab File: VL040489.D

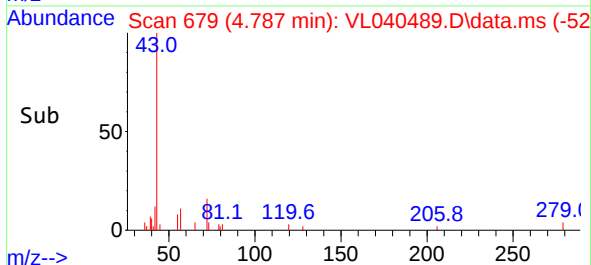
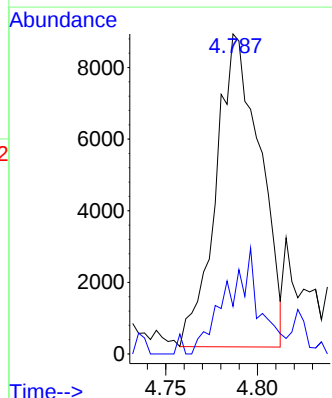
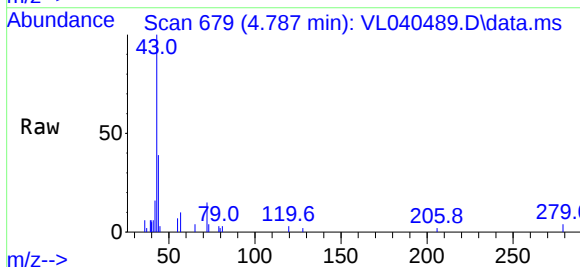
Acq: 22 Jun 2023 17:23

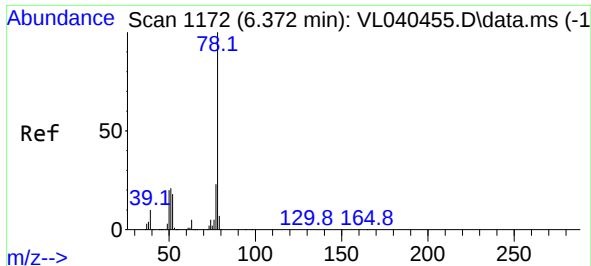
Tgt Ion: 43 Resp: 14599

Ion Ratio Lower Upper

43 100

72 30.9 18.1 27.1#

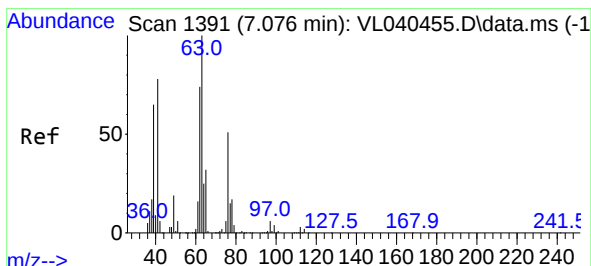
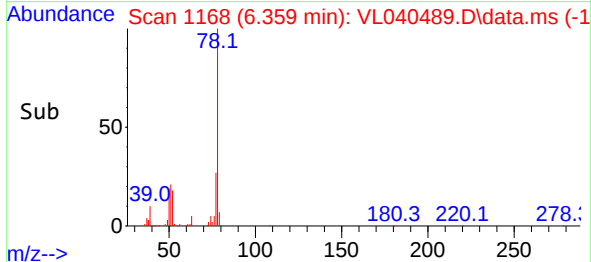
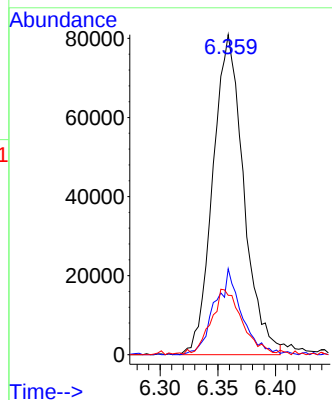
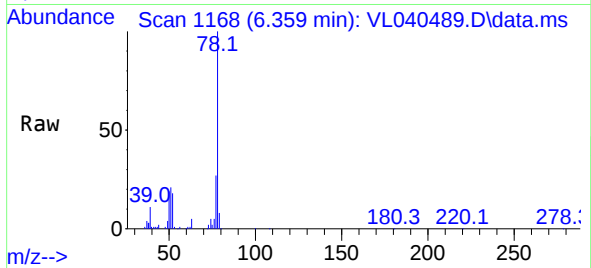




#36
Benzene
Concen: 0.682 ppbv
RT: 6.359 min Scan# 1172
Delta R.T. -0.013 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

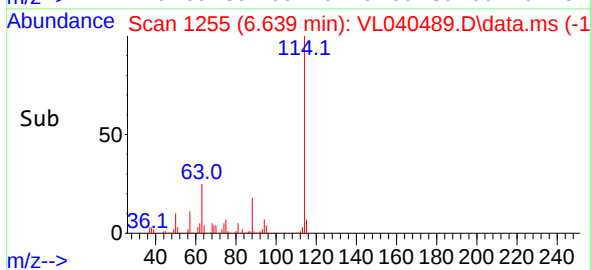
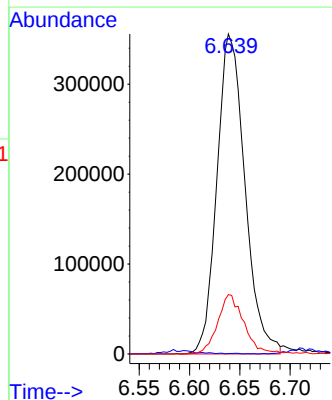
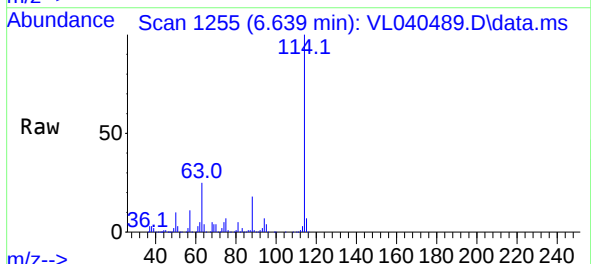
Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

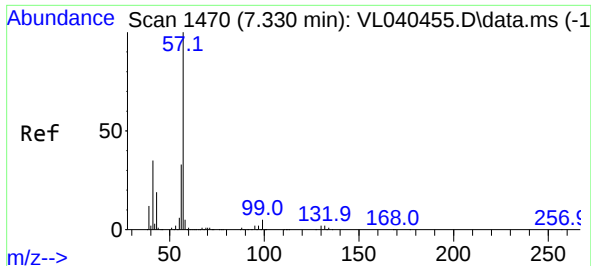
Tgt Ion: 78 Resp: 150324
Ion Ratio Lower Upper
78 100
77 26.9 18.5 27.7
50 18.0 16.1 24.1



#39
1,2-Dichloropropane
Concen: 8.109 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.437 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 63 Resp: 689005
Ion Ratio Lower Upper
63 100
41 0.0 62.2 93.2#
62 18.5 59.0 88.4#

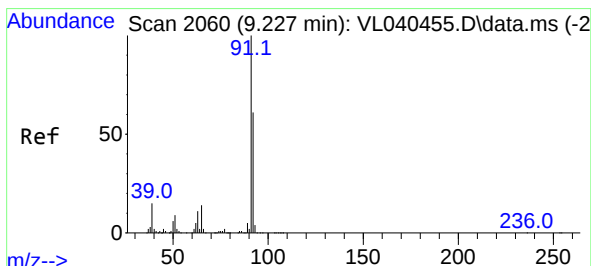
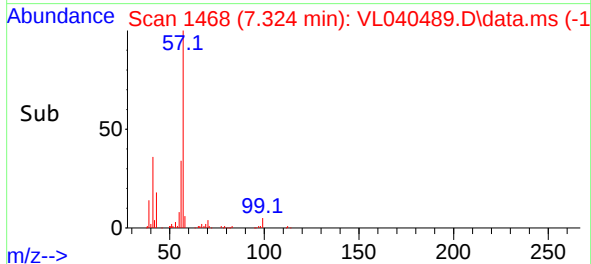
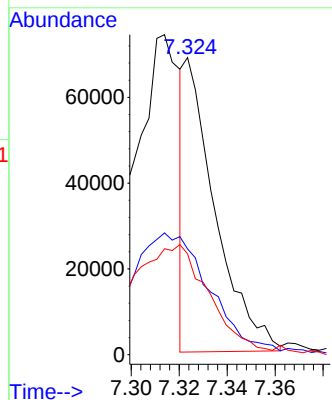
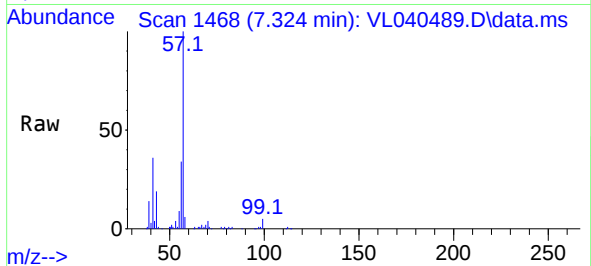




#44
2,2,4-Trimethylpentane
Concen: 0.170 ppbv
RT: 7.324 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

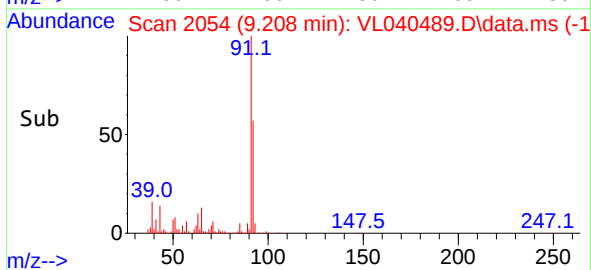
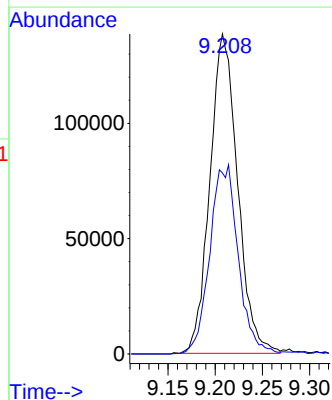
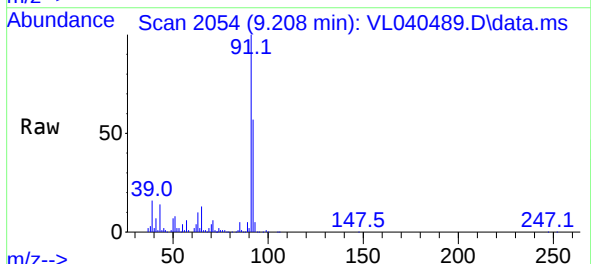
Instrument :
MSVOA_1
ClientSampleId :
AI-1DL

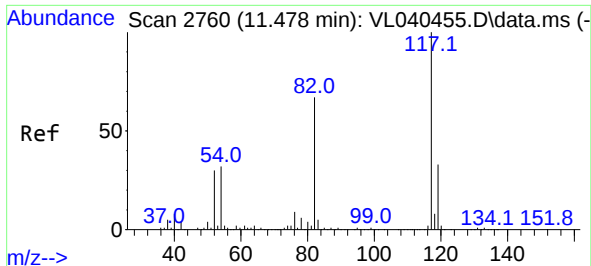
Tgt Ion: 57 Resp: 61146
Ion Ratio Lower Upper
57 100
41 0.0 27.8 41.8#
56 100.7 25.3 37.9#



#53
Toluene
Concen: 1.216 ppbv
RT: 9.208 min Scan# 2054
Delta R.T. -0.019 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 91 Resp: 282210
Ion Ratio Lower Upper
91 100
92 61.3 49.1 73.7

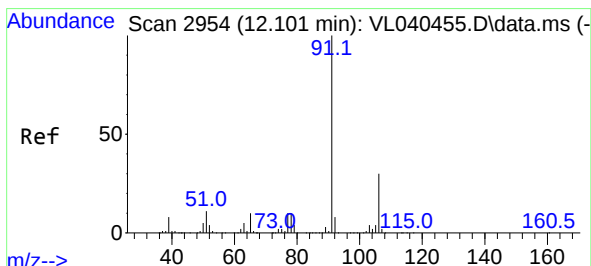
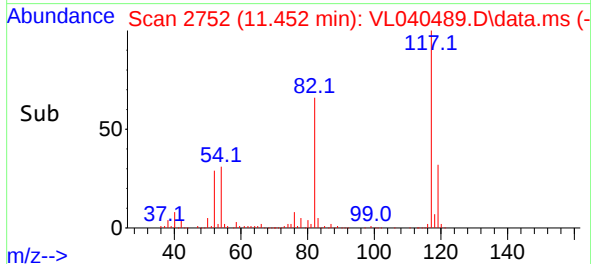
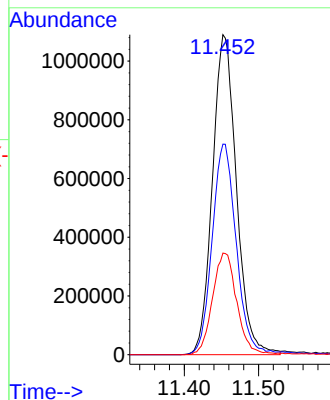
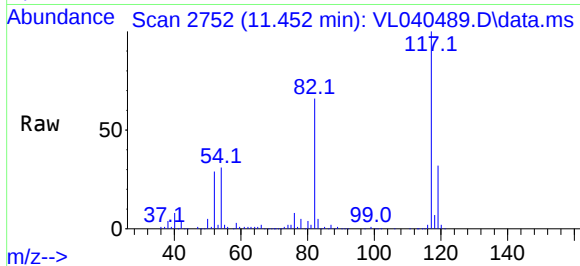




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

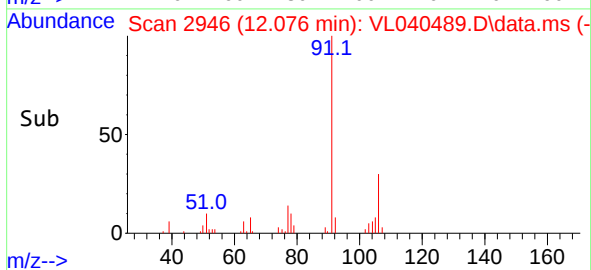
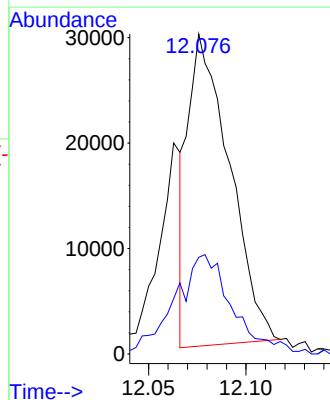
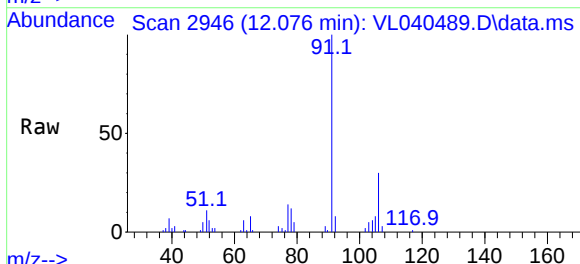
Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

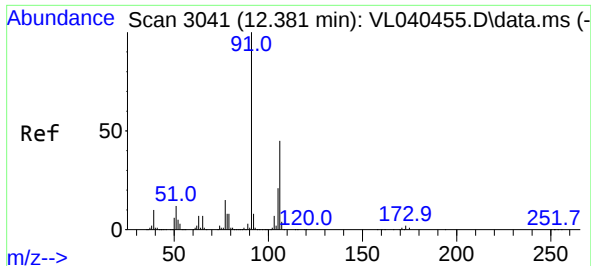
Tgt Ion:117 Resp: 2444091
Ion Ratio Lower Upper
117 100
82 67.5 53.0 79.4
119 32.6 24.4 36.6



#58
Ethyl Benzene
Concen: 0.148 ppbv
RT: 12.076 min Scan# 2946
Delta R.T. -0.026 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 91 Resp: 43704
Ion Ratio Lower Upper
91 100
106 27.5 23.7 35.5





#59

m/p-Xylene

Concen: 0.213 ppbv

RT: 12.355 min Scan# 3041

Delta R.T. -0.026 min

Lab File: VL040489.D

Acq: 22 Jun 2023 17:23

Instrument :

MSVOA_L

ClientSampleId :

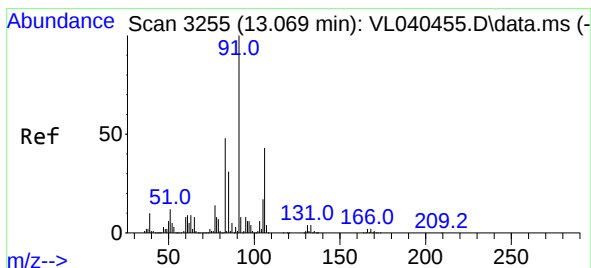
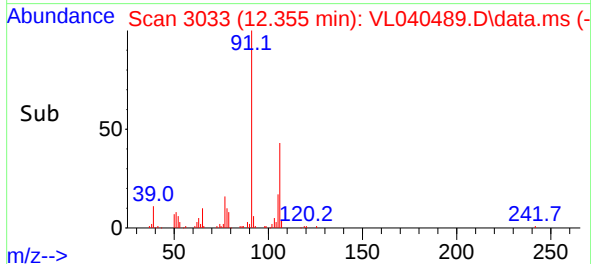
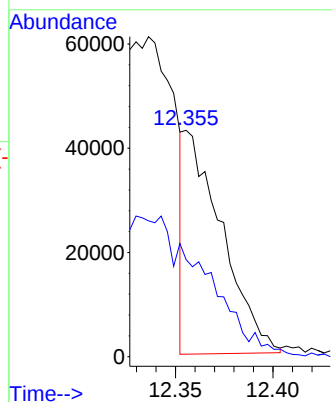
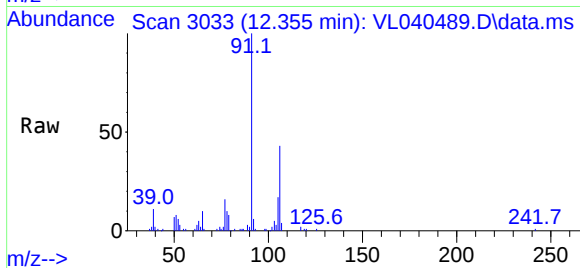
AI-1DL

Tgt Ion: 91 Resp: 57920

Ion Ratio Lower Upper

91 100

106 0.0 34.6 52.0#



#60

o-Xylene

Concen: 0.104 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.029 min

Lab File: VL040489.D

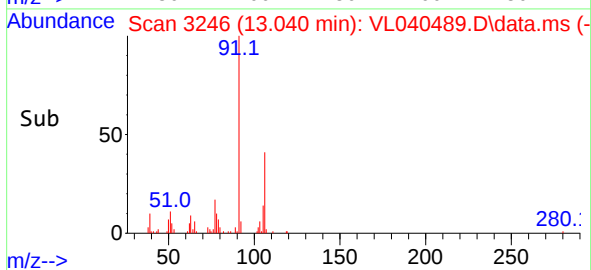
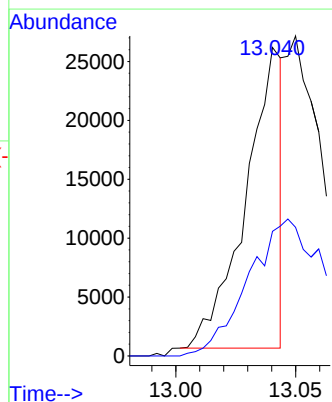
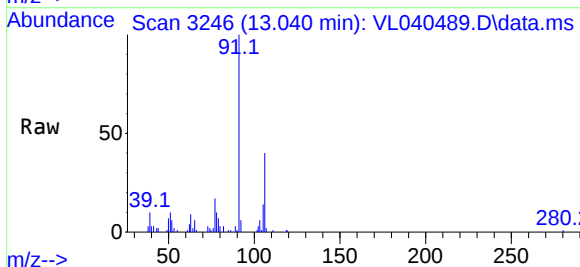
Acq: 22 Jun 2023 17:23

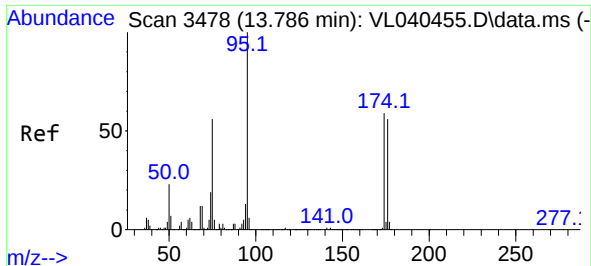
Tgt Ion: 91 Resp: 26849

Ion Ratio Lower Upper

91 100

106 0.0 22.1 66.1#

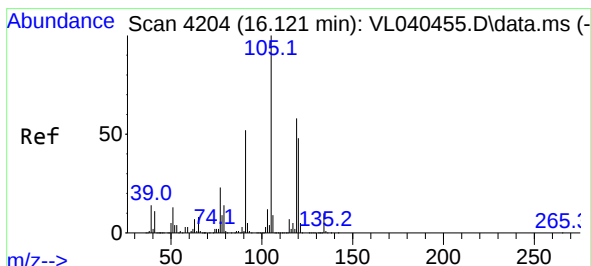
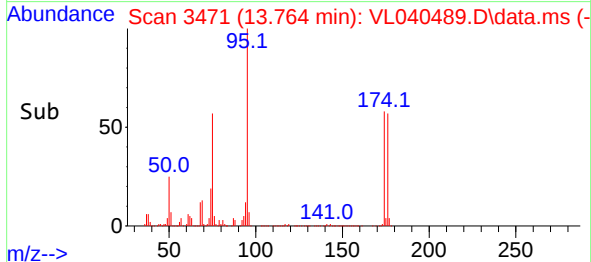
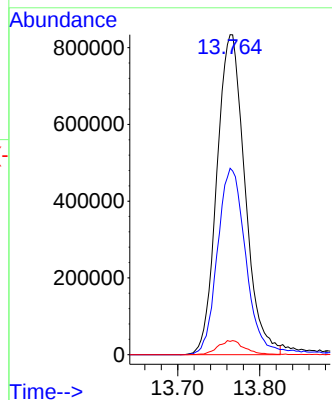
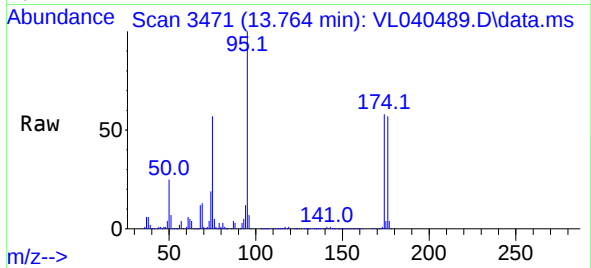




#68
1-Bromo-4-Fluorobenzene
Concen: 9.827 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.023 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Instrument :
MSVOA_L
ClientSampleId :
AI-1DL

Tgt Ion: 95 Resp: 1982383
Ion Ratio Lower Upper
95 100
174 60.6 47.7 71.5
175 4.3 3.5 5.3



#74
1,2,4-Trimethylbenzene
Concen: 0.064 ppbv
RT: 16.098 min Scan# 4197
Delta R.T. -0.023 min
Lab File: VL040489.D
Acq: 22 Jun 2023 17:23

Tgt Ion: 105 Resp: 19455
Ion Ratio Lower Upper
105 100
120 40.9 38.4 57.6
91 8.9 41.3 61.9#
77 16.4 18.6 28.0#

