

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042428.D
 Acq On : 28 Apr 2025 16:16
 Operator : SY/MD
 Sample : Q1880-08
 Misc : 400mL/MSVOA_L
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-IA01-20250423

Quant Time: Apr 29 01:39:34 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Apr 18 02:14:00 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	130703	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.955	114	360136	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.878	117	306395	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.374	95	265930	10.562	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.600%

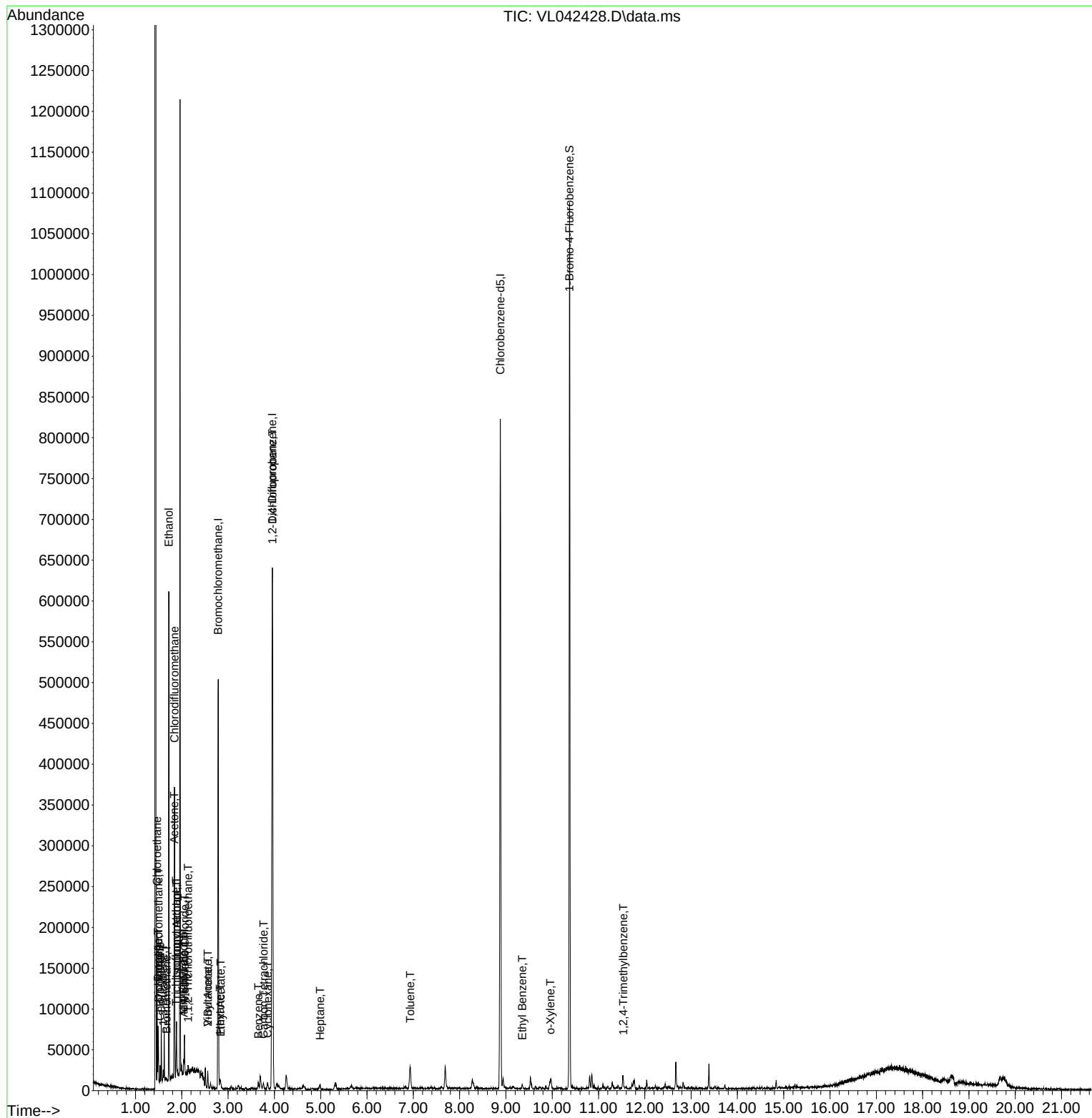
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11832	0.512	ppbv #	87
3) Chlorodifluoromethane	1.842	51	2362	0.107	ppbv	95
4) Chloromethane	1.531	50	5307	0.581	ppbv	91
6) Bromomethane	1.674	94	169	0.040	ppbv #	8
7) Chloroethane	1.466	64	10513	2.922	ppbv #	45
9) Propene	1.486	41	4882	0.488	ppbv #	15
10) Heptane	4.985	43	1036	0.037	ppbv #	27
11) Trichlorofluoromethane	1.878	101	5326	0.243	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.136	101	905	0.050	ppbv #	69
13) Ethanol	1.719	45	208480	130.977	ppbv	75
15) Acetone	1.835	43	114149	5.335	ppbv #	86
16) 1,3-Butadiene	1.599	39	1129	0.110	ppbv #	9
17) tert-Butyl alcohol	2.039	59	1035	0.039	ppbv #	71
19) Isopropyl Alcohol	1.887	45	26353	2.217	ppbv #	29
20) Methylene Chloride	2.062	84	3426	0.409	ppbv	87
21) Allyl Chloride	2.043	41	3514	0.238	ppbv	88
23) Vinyl Acetate	2.560	43	11685	1.349	ppbv #	88
25) Ethyl Acetate	2.839	43	2723	0.052	ppbv #	65
26) Hexane	2.823	57	2441	0.114	ppbv #	65
30) Cyclohexane	3.855	84	1295	0.075	ppbv #	52
34) 2-Butanone	2.560	43	11685	0.410	ppbv	97
35) Carbon Tetrachloride	3.765	117	1585	0.049	ppbv #	64
36) Benzene	3.654	78	4289	0.110	ppbv	99
39) 1,2-Dichloropropane	3.959	63	99262	6.857	ppbv #	21
53) Toluene	6.936	91	18874	0.405	ppbv	100
58) Ethyl Benzene	9.351	91	2937	0.048	ppbv #	84
60) o-Xylene	9.963	91	2577	0.052	ppbv	89
74) 1,2,4-Trimethylbenzene	11.536	105	2789	0.045	ppbv #	67

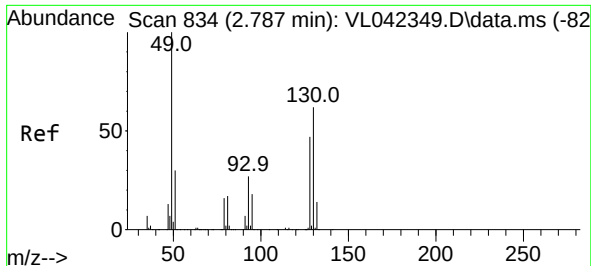
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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EBR-P02-SC-IA01-20250423

Quant Time: Apr 29 01:39:34 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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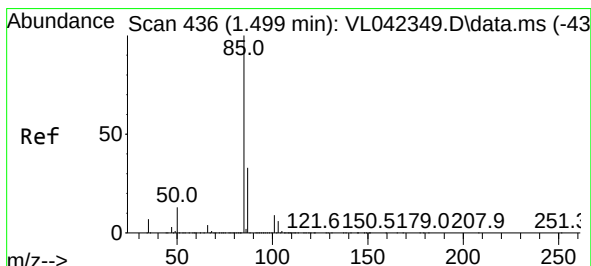
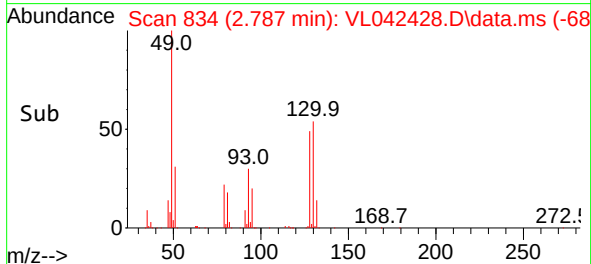
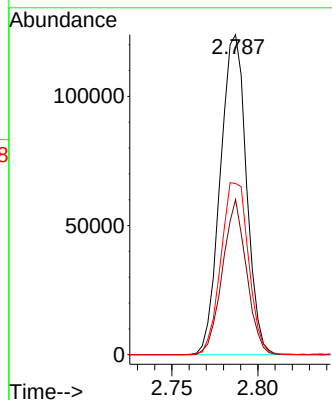
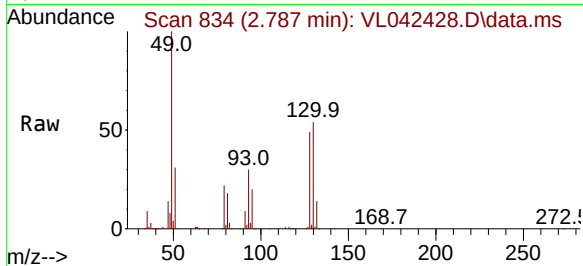




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

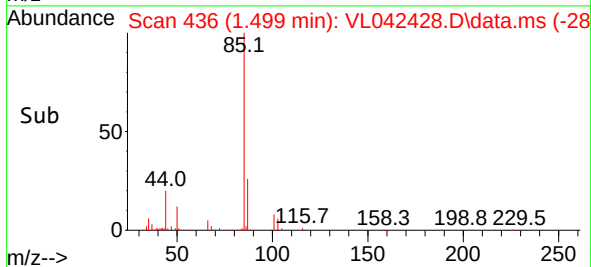
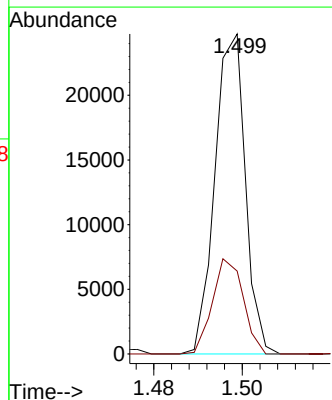
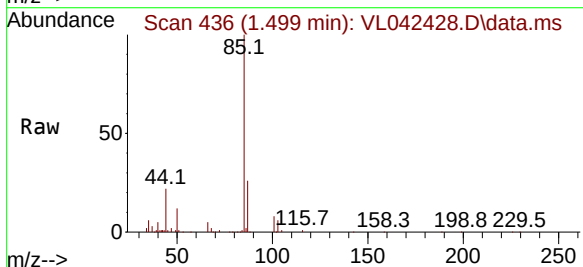
Instrument :
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ClientSampleId :
EBR-P02-SC-IA01-20250423

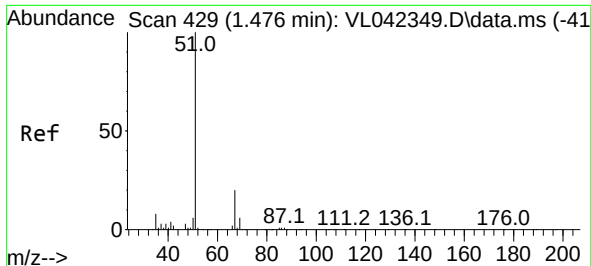
Tgt Ion: 49 Resp: 130703
Ion Ratio Lower Upper
49 100
128 44.6 22.8 68.4
130 57.0 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.512 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 85 Resp: 11832
Ion Ratio Lower Upper
85 100
87 25.9 26.6 39.8#

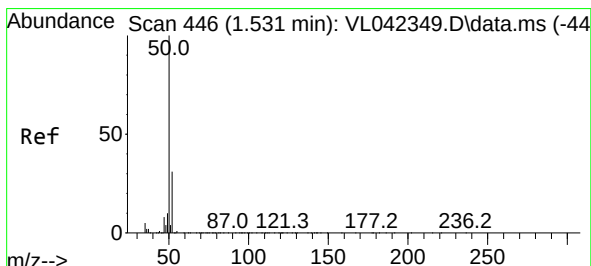
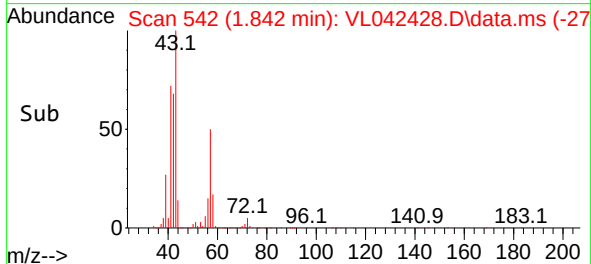
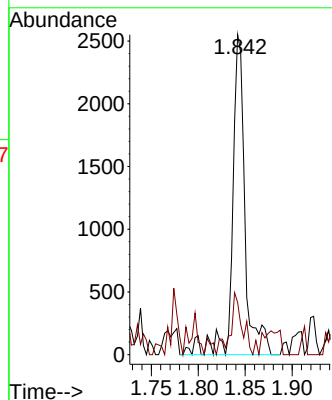
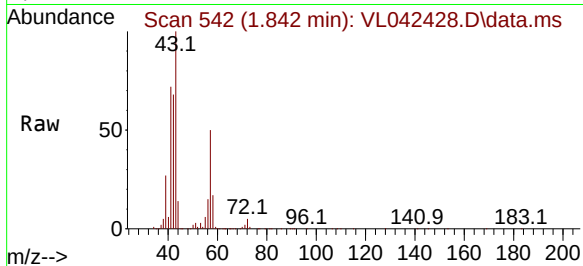




#3
Chlorodifluoromethane
Concen: 0.107 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.366 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

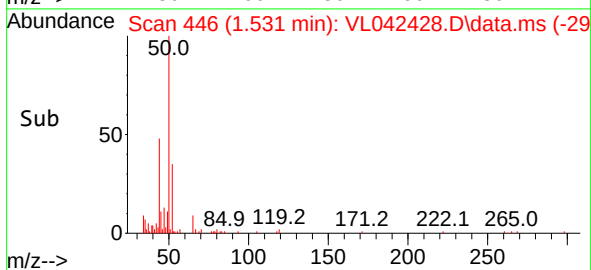
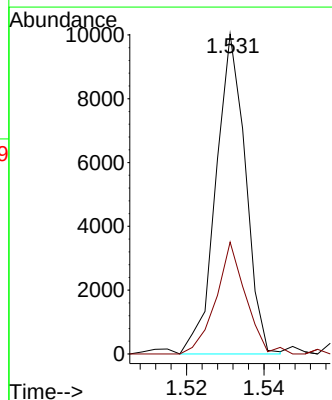
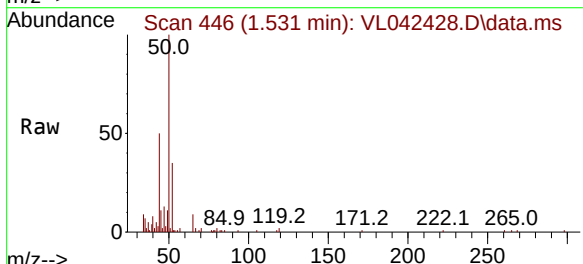
Instrument :
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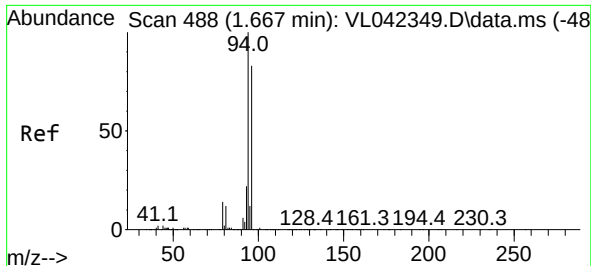
Tgt Ion: 51 Resp: 2362
Ion Ratio Lower Upper
51 100
67 18.2 16.2 24.4



#4
Chloromethane
Concen: 0.581 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 50 Resp: 5307
Ion Ratio Lower Upper
50 100
52 35.6 24.7 37.1

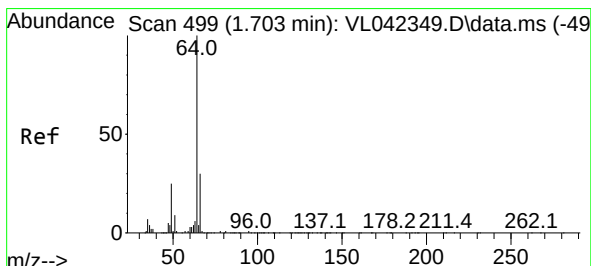
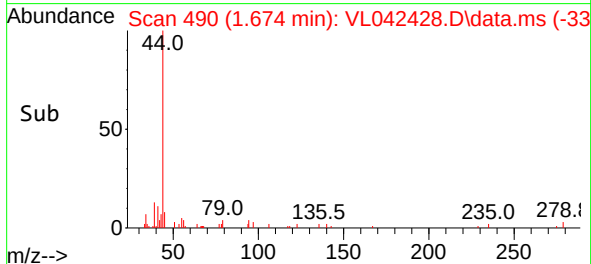
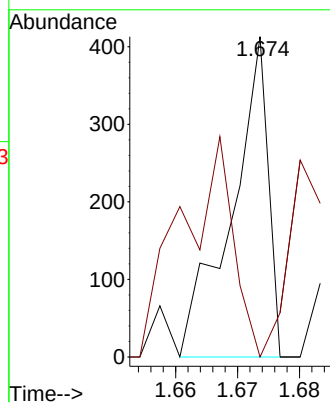
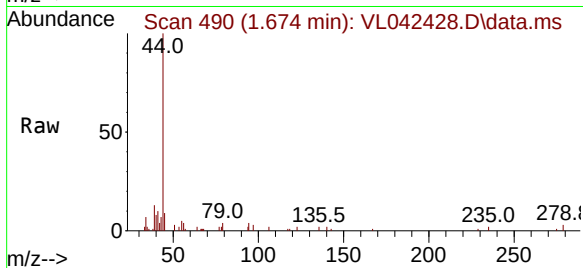




#6
Bromomethane
Concen: 0.040 ppbv
RT: 1.674 min Scan# 490
Delta R.T. 0.007 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

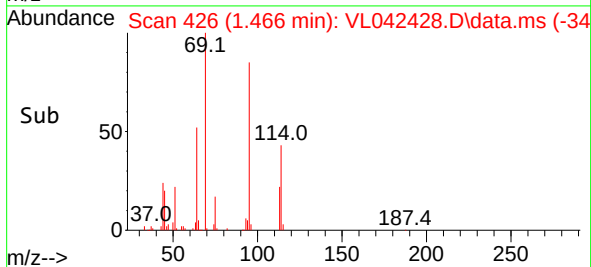
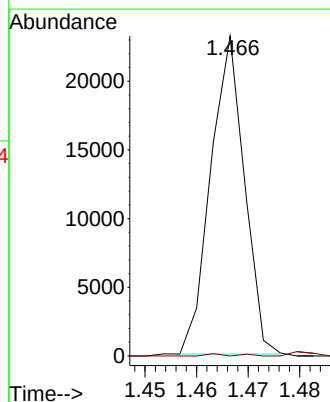
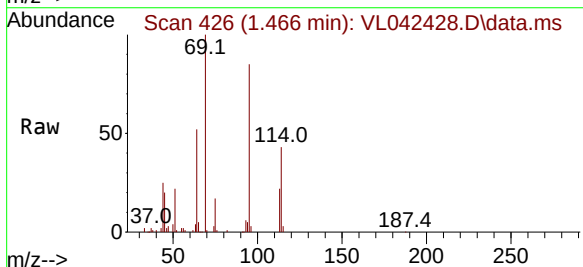
Instrument : MSVOA_1
ClientSampleId : EBR-P02-SC-IA01-20250423

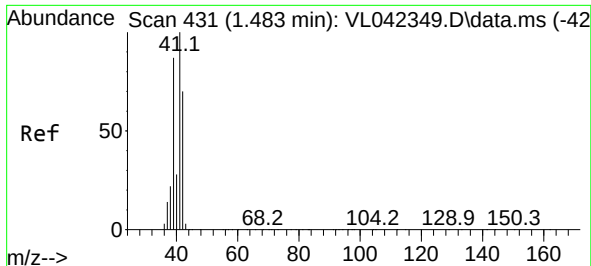
Tgt Ion: 94 Resp: 169
Ion Ratio Lower Upper
94 100
96 0.0 66.2 99.2#



#7
Chloroethane
Concen: 2.922 ppbv
RT: 1.466 min Scan# 426
Delta R.T. -0.236 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 64 Resp: 10513
Ion Ratio Lower Upper
64 100
66 0.5 24.6 37.0#





#9

Propene

Concen: 0.488 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042428.D

Acq: 28 Apr 2025 16:16

Instrument :

MSVOA_L

ClientSampleId :

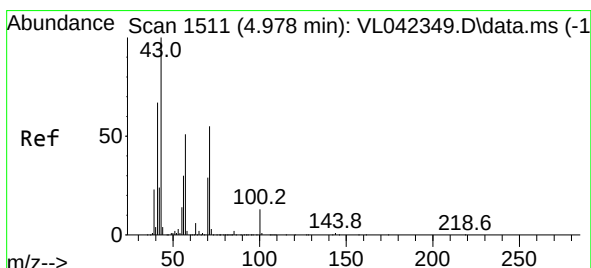
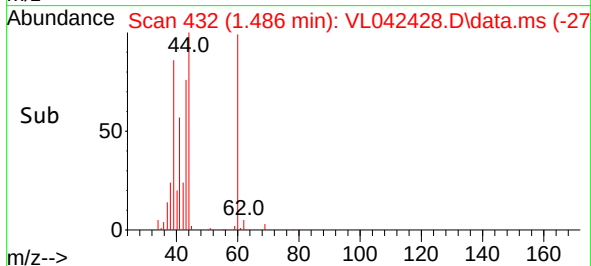
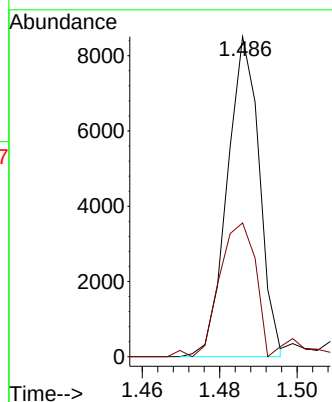
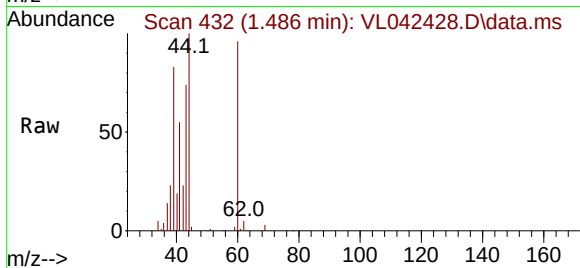
EBR-P02-SC-IA01-20250423

Tgt Ion: 41 Resp: 4882

Ion Ratio Lower Upper

41 100

42 0.0 56.2 84.4#



#10

Heptane

Concen: 0.037 ppbv

RT: 4.985 min Scan# 1513

Delta R.T. 0.007 min

Lab File: VL042428.D

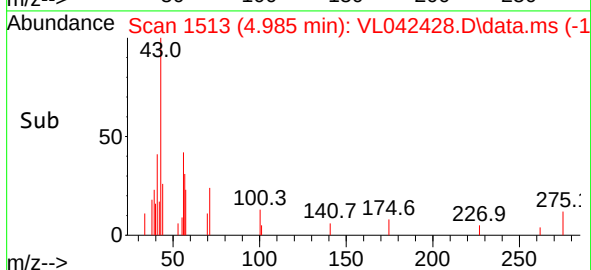
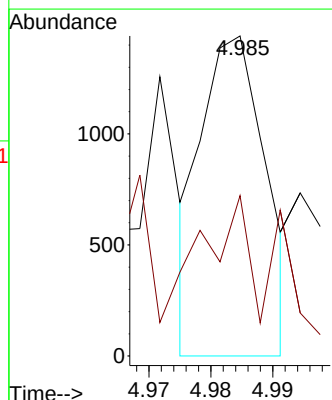
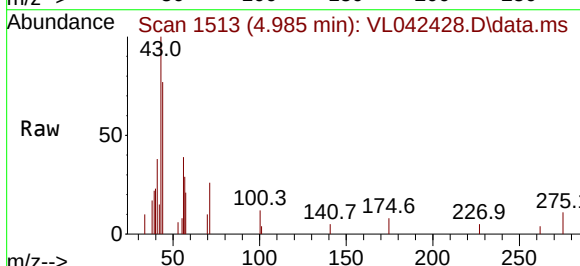
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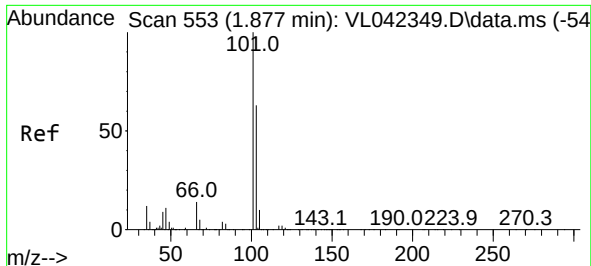
Tgt Ion: 43 Resp: 1036

Ion Ratio Lower Upper

43 100

57 0.0 39.9 59.9#

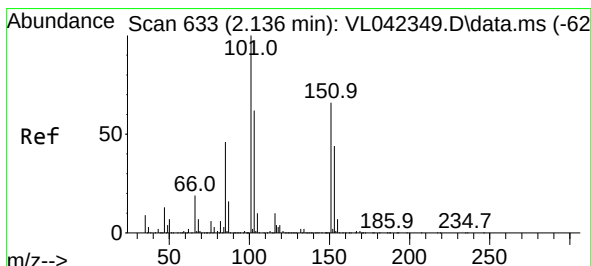
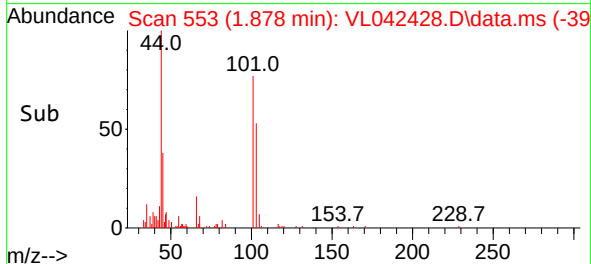
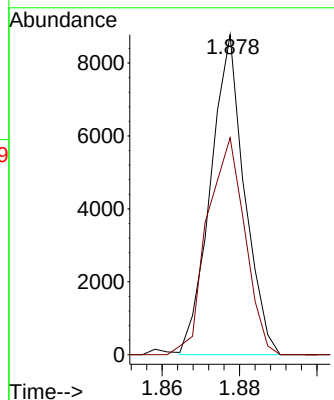
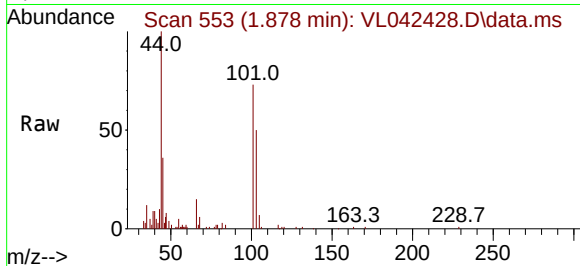




#11
 Trichlorofluoromethane
 Concen: 0.243 ppbv
 RT: 1.878 min Scan# 511
 Delta R.T. 0.000 min
 Lab File: VL042428.D
 Acq: 28 Apr 2025 16:16

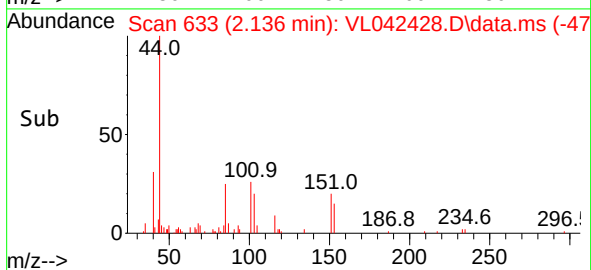
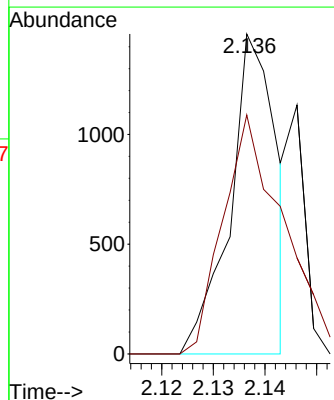
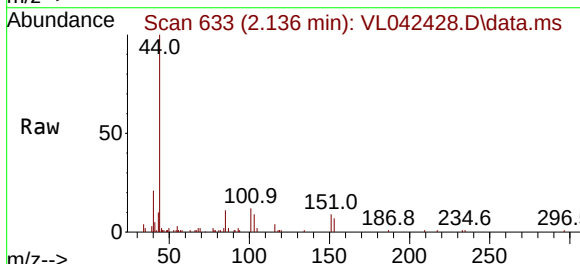
Instrument :
 MSVOA_L
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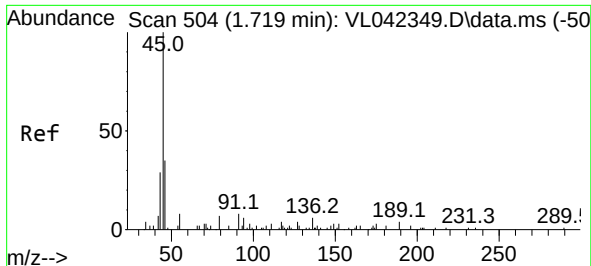
Tgt Ion:101 Resp: 5326
 Ion Ratio Lower Upper
 101 100
 103 67.8 50.1 75.1



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.050 ppbv
 RT: 2.136 min Scan# 633
 Delta R.T. 0.000 min
 Lab File: VL042428.D
 Acq: 28 Apr 2025 16:16

Tgt Ion:101 Resp: 905
 Ion Ratio Lower Upper
 101 100
 151 97.3 57.0 85.6#

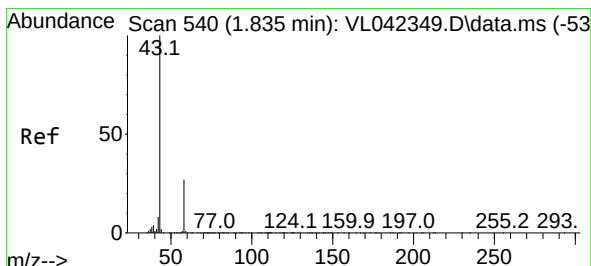
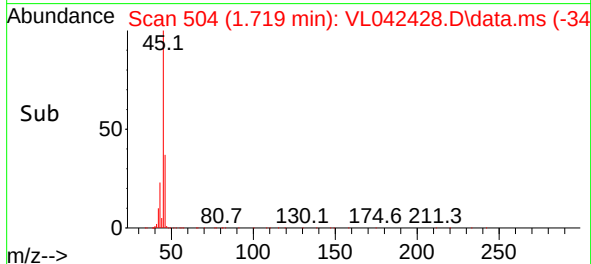
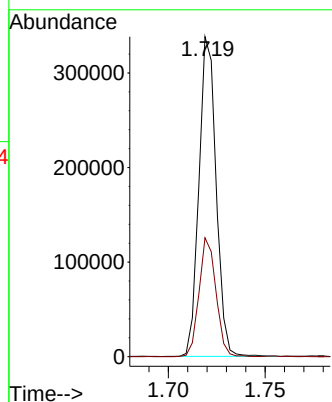
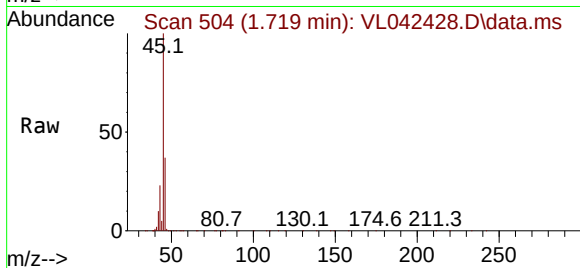




#13
Ethanol
Concen: 130.977 ppbv
RT: 1.719 min Scan# 504
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

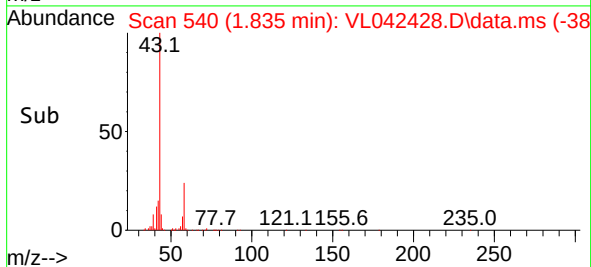
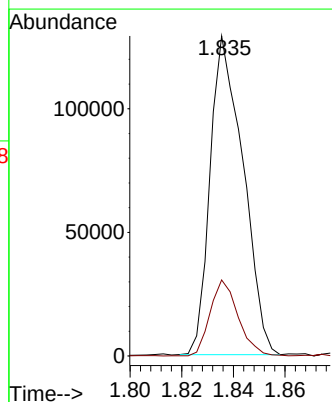
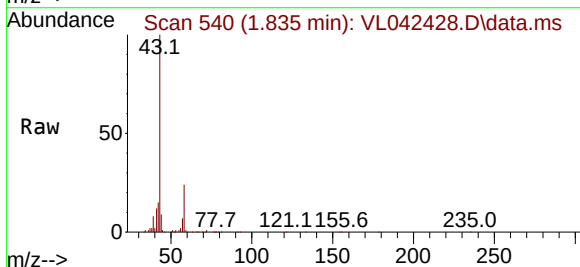
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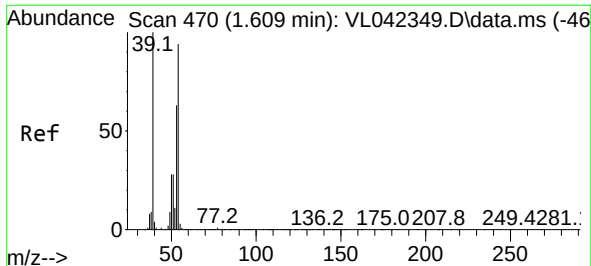
Tgt Ion: 45 Resp: 208480
Ion Ratio Lower Upper
45 100
46 37.0 21.9 87.7



#15
Acetone
Concen: 5.335 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 43 Resp: 114149
Ion Ratio Lower Upper
43 100
58 20.5 22.4 33.6#

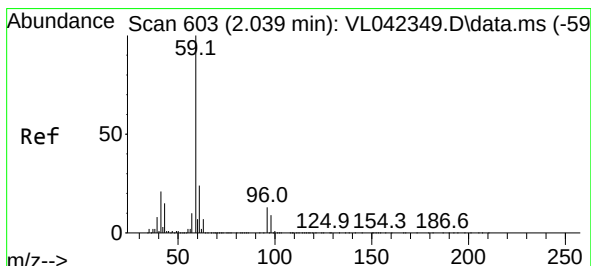
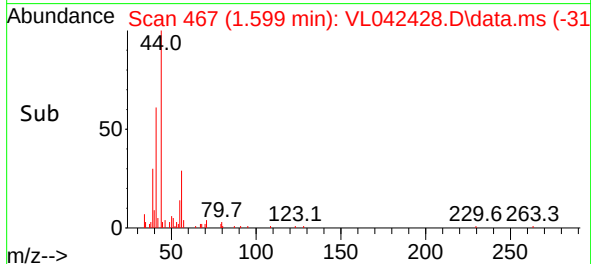
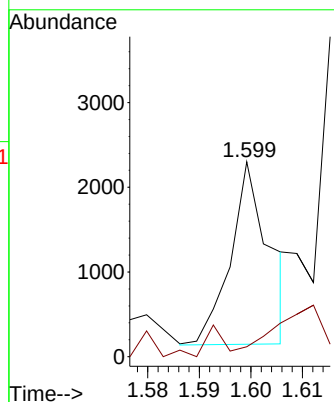
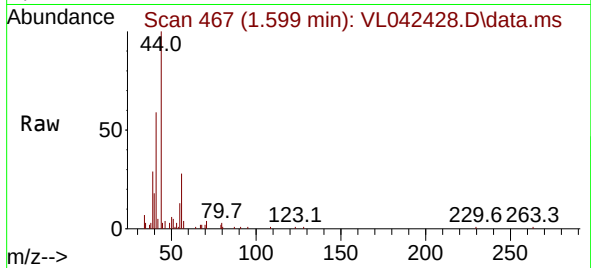




#16
1,3-Butadiene
Concen: 0.110 ppbv
RT: 1.599 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

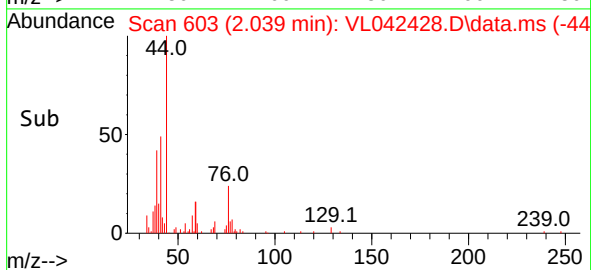
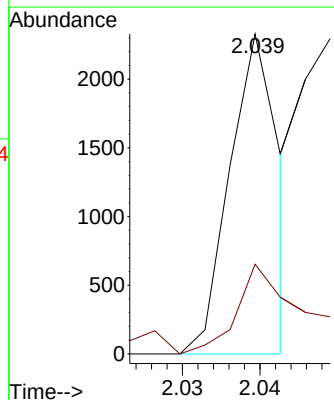
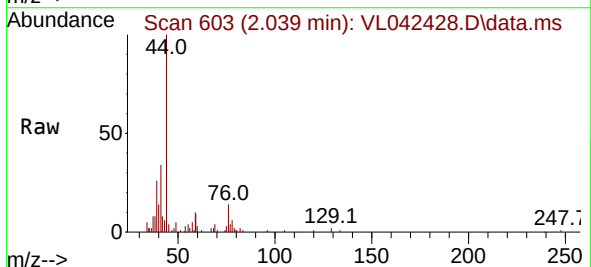
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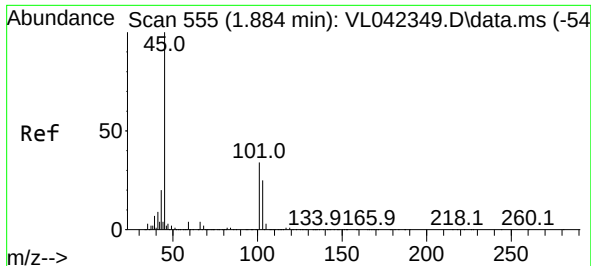
Tgt Ion: 39 Resp: 1129
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#



#17
tert-Butyl alcohol
Concen: 0.039 ppbv
RT: 2.039 min Scan# 603
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 59 Resp: 1035
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#

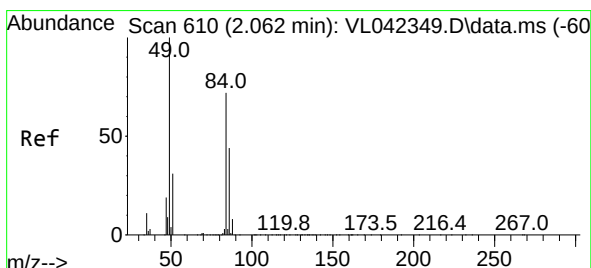
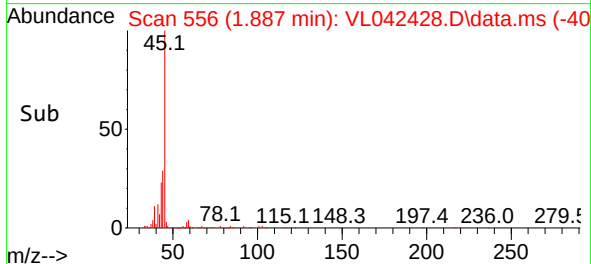
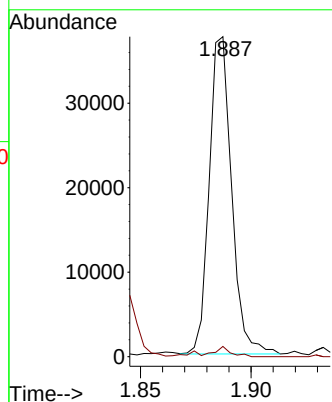
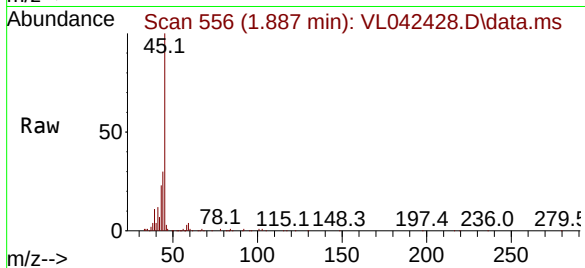




#19
Isopropyl Alcohol
Concen: 2.217 ppbv
RT: 1.887 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

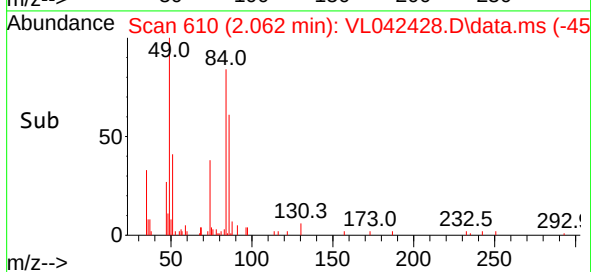
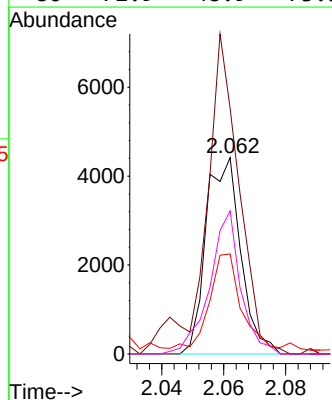
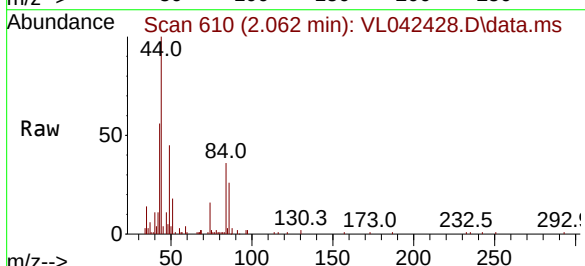
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-IA01-20250423

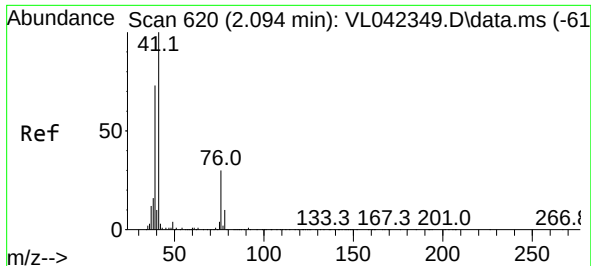
Tgt Ion: 45 Resp: 26353
Ion Ratio Lower Upper
45 100
58 88.6 34.5 51.7#



#20
Methylene Chloride
Concen: 0.409 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 84 Resp: 3426
Ion Ratio Lower Upper
84 100
49 122.4 111.6 167.4
51 47.7 35.1 52.7
86 72.9 48.9 73.3

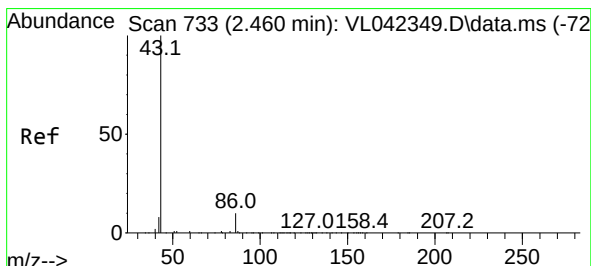
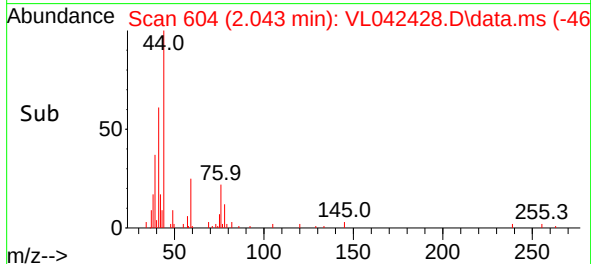
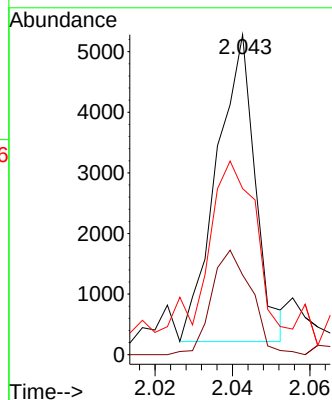
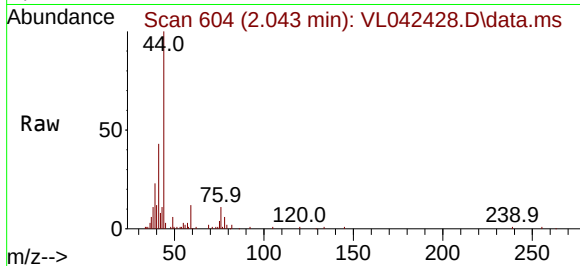




#21
 Allyl Chloride
 Concen: 0.238 ppbv
 RT: 2.043 min Scan# 604
 Delta R.T. -0.052 min
 Lab File: VL042428.D
 Acq: 28 Apr 2025 16:16

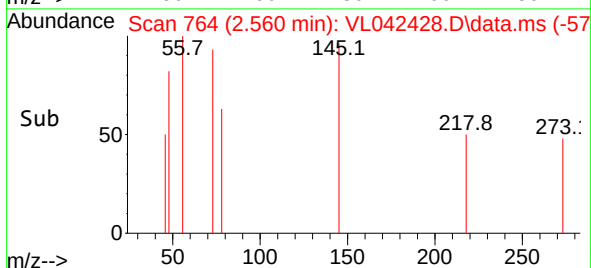
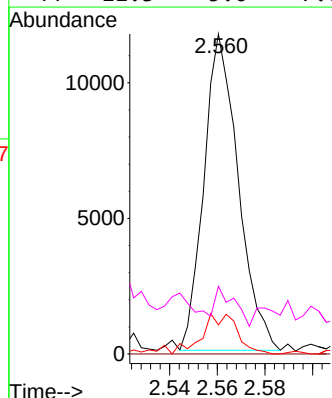
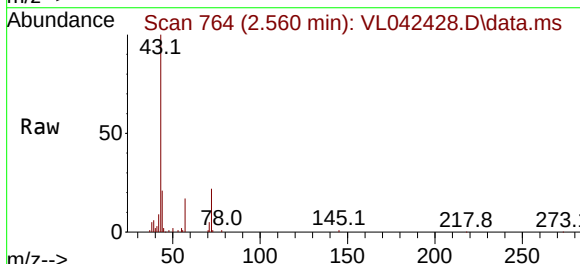
Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-IA01-20250423

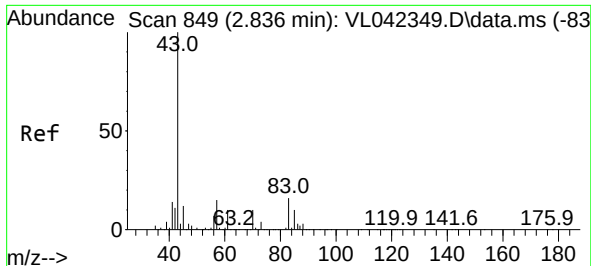
Tgt Ion:	41	Resp:	3514
Ion Ratio	Lower	Upper	
41	100		
76	36.8	24.8	37.2
39	86.9	60.6	90.8



#23
 Vinyl Acetate
 Concen: 1.349 ppbv
 RT: 2.560 min Scan# 764
 Delta R.T. 0.100 min
 Lab File: VL042428.D
 Acq: 28 Apr 2025 16:16

Tgt Ion:	43	Resp:	11685
Ion Ratio	Lower	Upper	
43	100		
86	0.0	6.5	9.7#
42	9.2	7.8	11.8
44	11.3	5.0	7.6#





#25

Ethyl Acetate

Concen: 0.052 ppbv

RT: 2.839 min Scan# 849

Delta R.T. 0.003 min

Lab File: VL042428.D

Acq: 28 Apr 2025 16:16

Instrument :

MSVOA_1

ClientSampleId :

EBR-P02-SC-IA01-20250423

Tgt Ion: 43 Resp: 2723

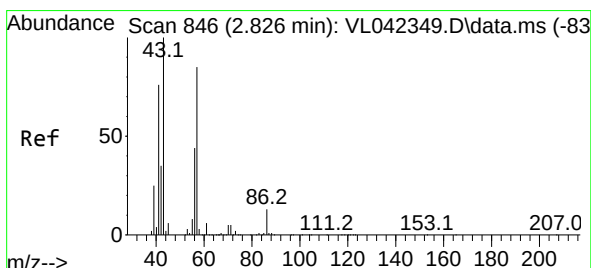
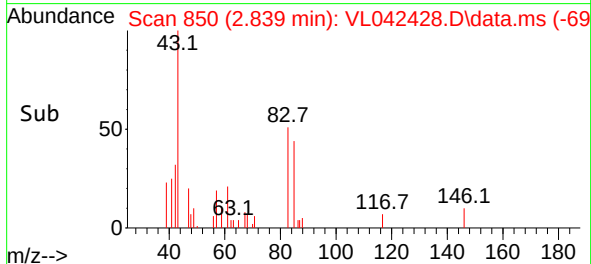
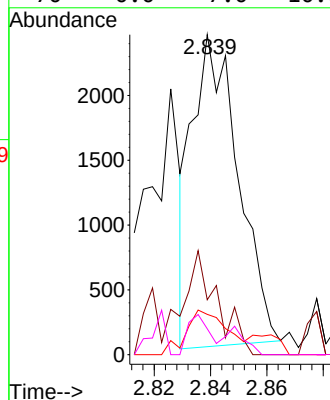
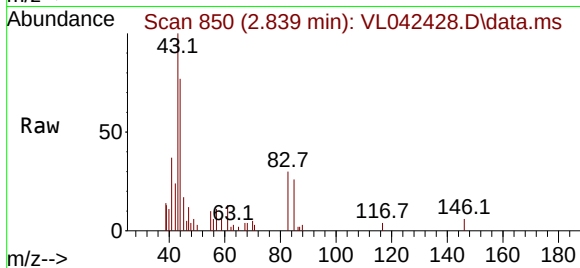
Ion Ratio Lower Upper

43 100

45 31.6 8.3 12.5#

61 16.7 7.3 10.9#

70 0.0 7.0 10.6#



#26

Hexane

Concen: 0.114 ppbv

RT: 2.823 min Scan# 845

Delta R.T. -0.003 min

Lab File: VL042428.D

Acq: 28 Apr 2025 16:16

Tgt Ion: 57 Resp: 2441

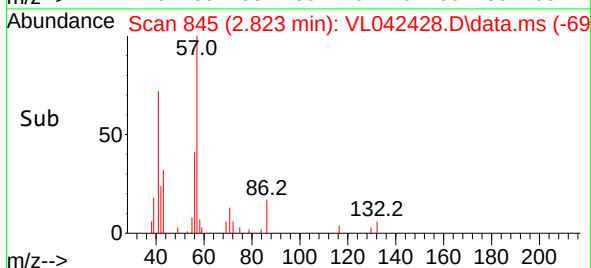
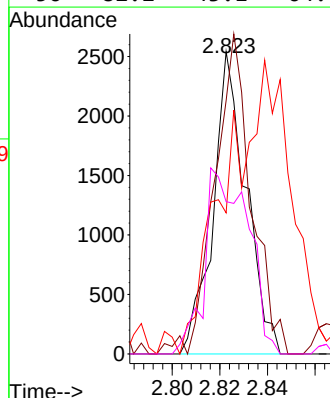
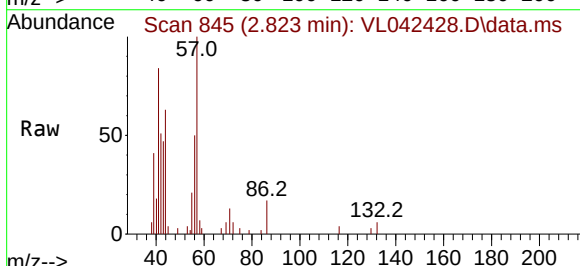
Ion Ratio Lower Upper

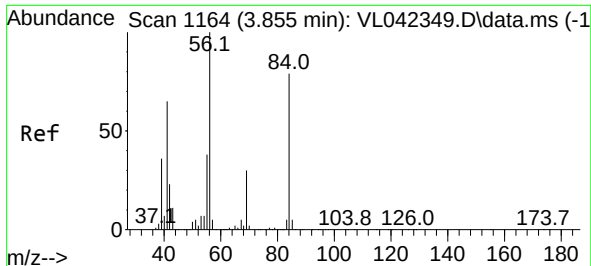
57 100

41 118.9 77.9 116.9#

43 192.0 208.4 312.6#

56 82.2 43.1 64.7#

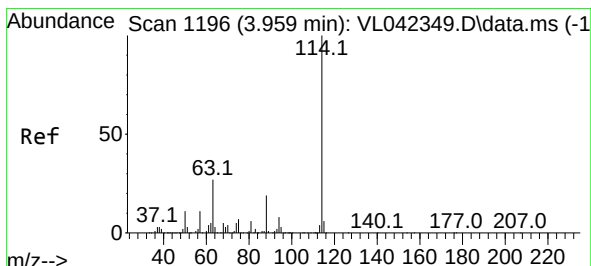
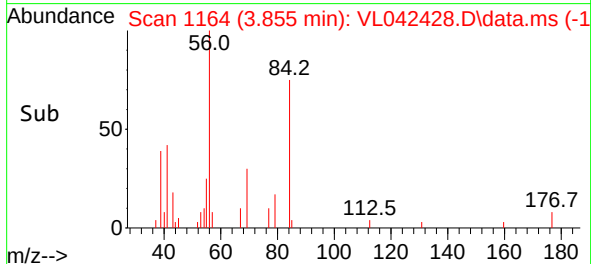
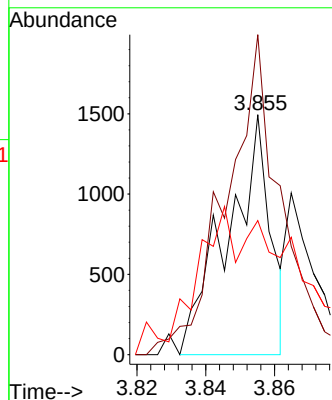
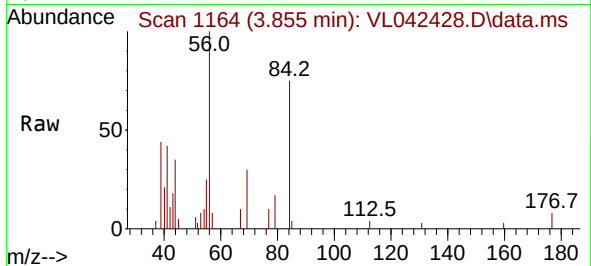




#30
Cyclohexane
Concen: 0.075 ppbv
RT: 3.855 min Scan# 1164
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

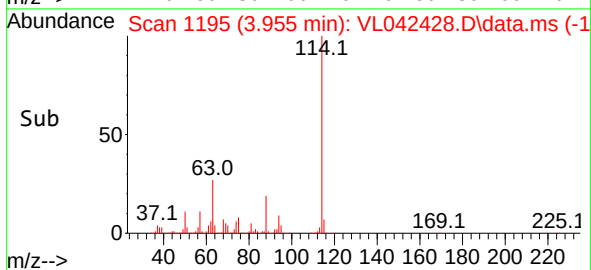
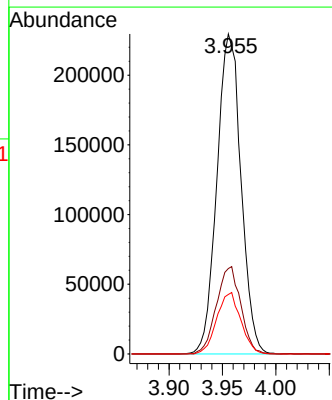
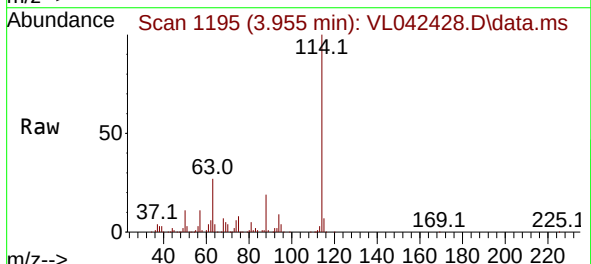
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-IA01-20250423

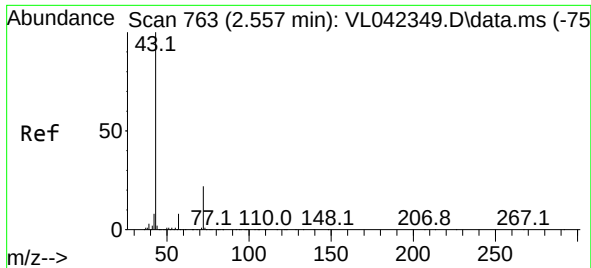
Tgt Ion: 84 Resp: 1295
Ion Ratio Lower Upper
84 100
56 171.4 101.0 151.4#
41 140.1 67.4 101.0#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 114 Resp: 360136
Ion Ratio Lower Upper
114 100
63 27.6 21.8 32.6
88 19.1 15.5 23.3

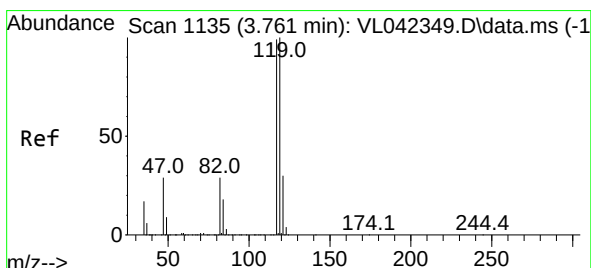
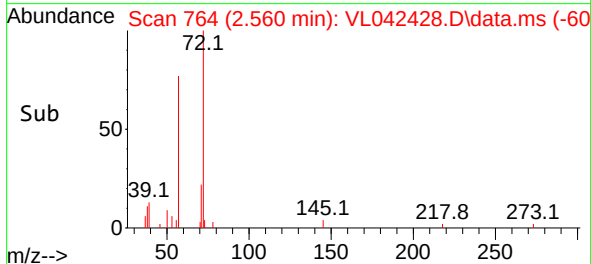
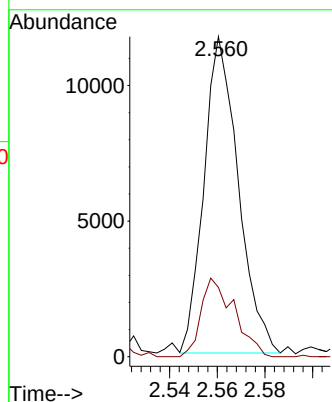
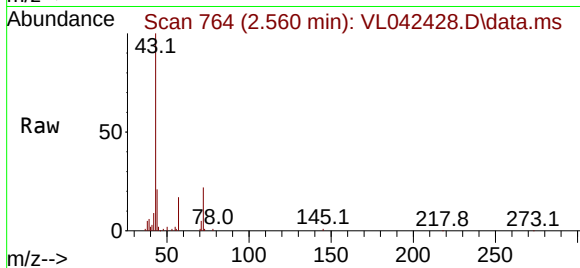




#34
2-Butanone
Concen: 0.410 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

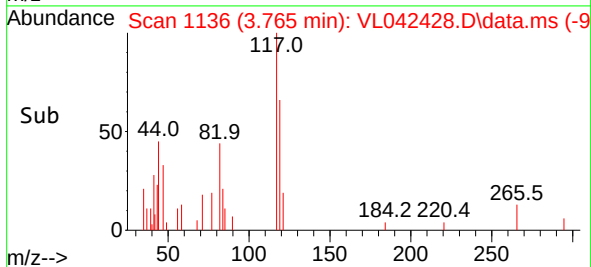
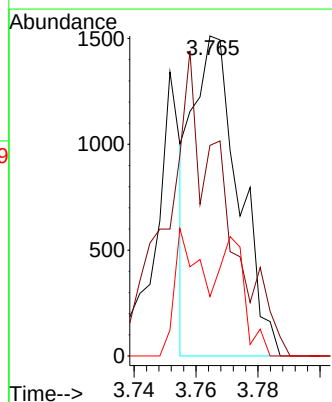
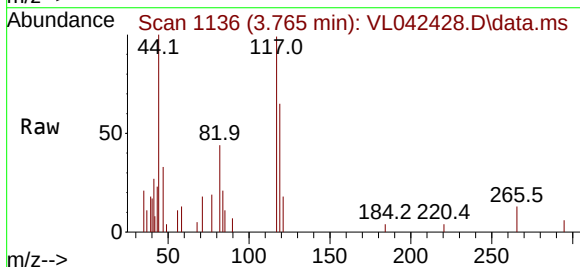
Instrument :
MSVOA_L
ClientSampleId :
EBR-P02-SC-IA01-20250423

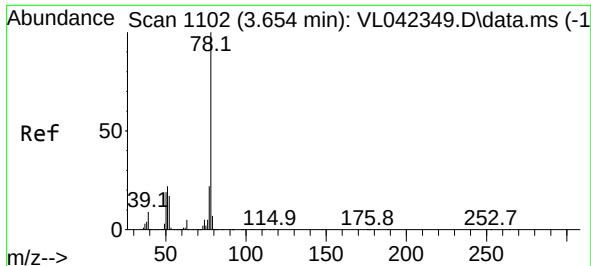
Tgt Ion: 43 Resp: 11685
Ion Ratio Lower Upper
43 100
72 24.1 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 3.765 min Scan# 1136
Delta R.T. 0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 117 Resp: 1585
Ion Ratio Lower Upper
117 100
119 59.9 80.5 120.7#
121 18.6 24.2 36.2#

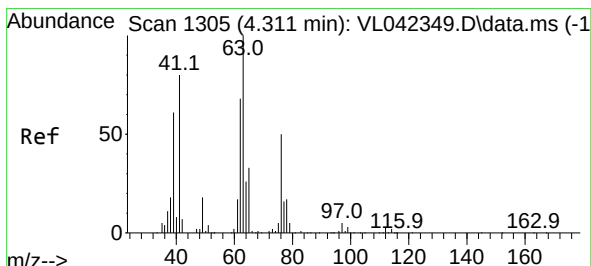
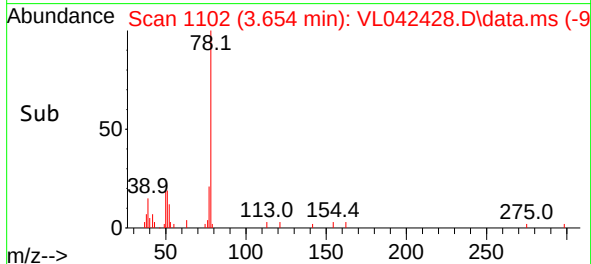
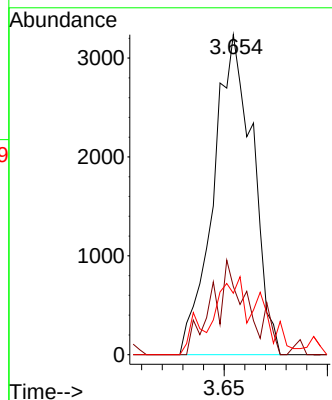
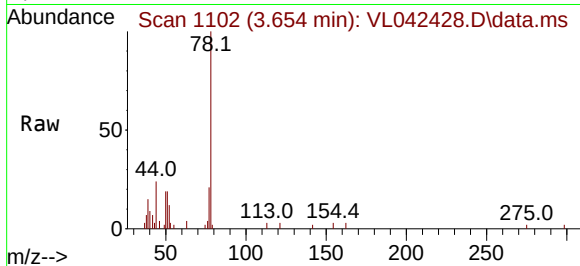




#36
Benzene
Concen: 0.110 ppbv
RT: 3.654 min Scan# 1102
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

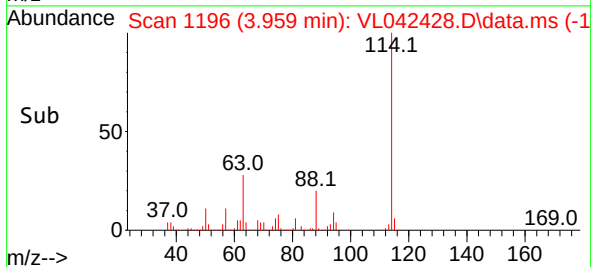
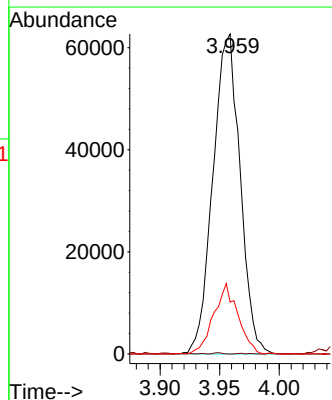
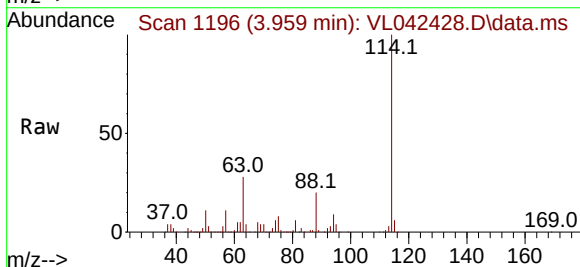
Instrument :
MSVOA_1
ClientSampleId :
EBR-P02-SC-IA01-20250423

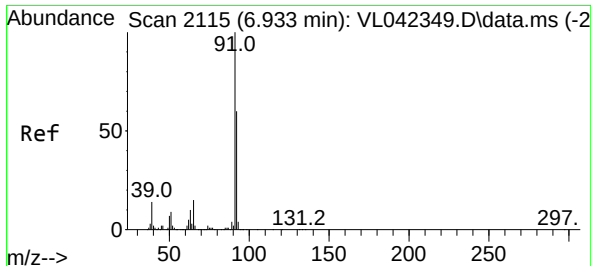
Tgt Ion: 78 Resp: 4289
Ion Ratio Lower Upper
78 100
77 21.3 17.4 26.0
50 19.2 15.5 23.3



#39
1,2-Dichloropropane
Concen: 6.857 ppbv
RT: 3.959 min Scan# 1196
Delta R.T. -0.353 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 63 Resp: 99262
Ion Ratio Lower Upper
63 100
41 0.0 64.2 96.2#
62 16.2 54.3 81.5#

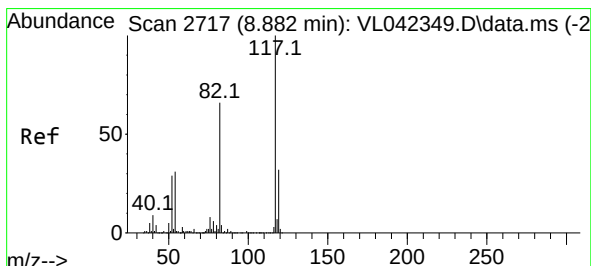
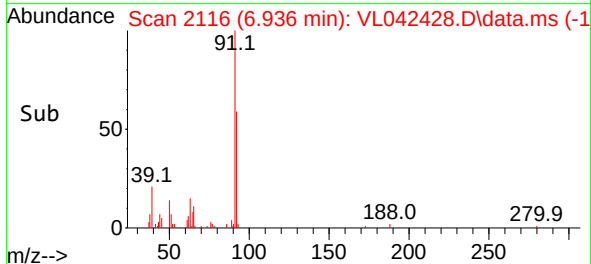
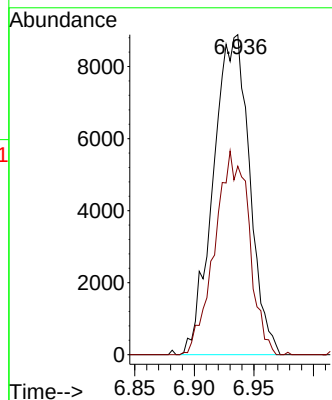
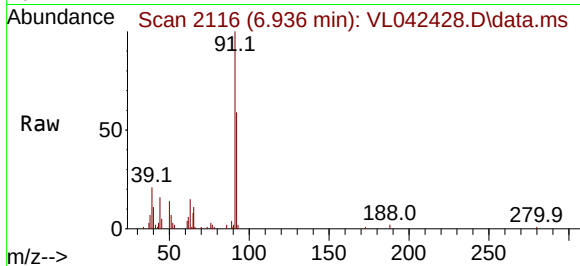




#53
Toluene
Concen: 0.405 ppbv
RT: 6.936 min Scan# 2115
Delta R.T. 0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

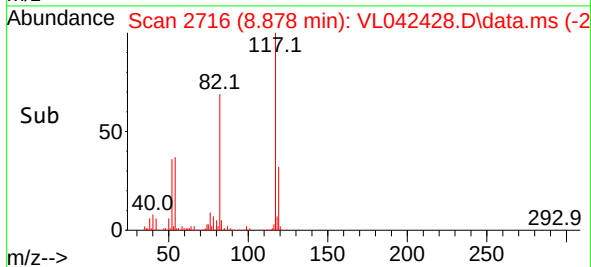
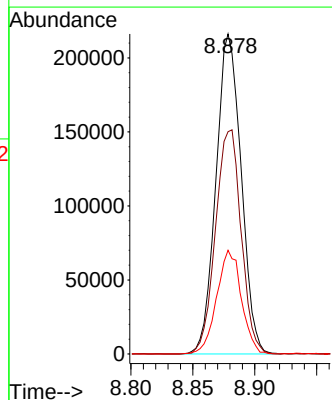
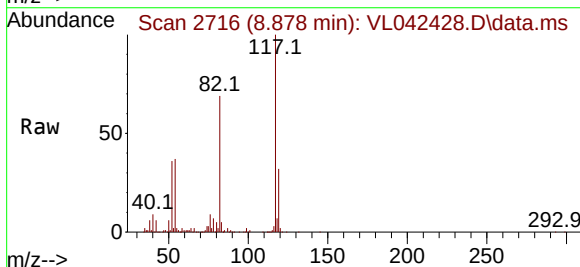
Instrument :
MSVOA_1
ClientSampleId :
EBR-P02-SC-IA01-20250423

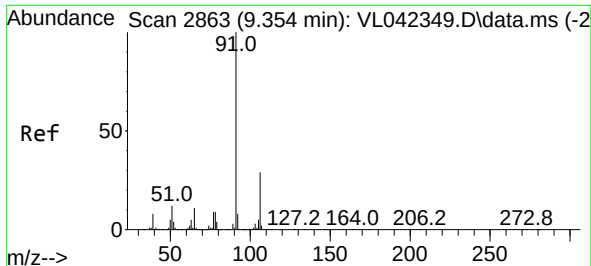
Tgt Ion: 91 Resp: 18874
Ion Ratio Lower Upper
91 100
92 60.0 48.2 72.4



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.878 min Scan# 2716
Delta R.T. -0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 117 Resp: 306395
Ion Ratio Lower Upper
117 100
82 71.3 57.8 86.6
119 31.8 25.2 37.8

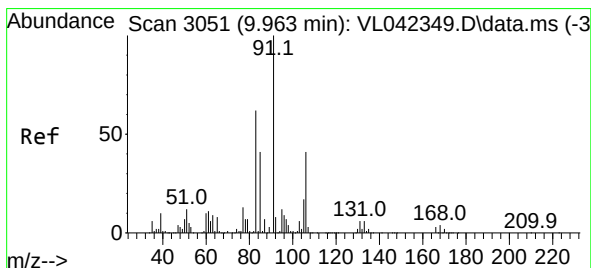
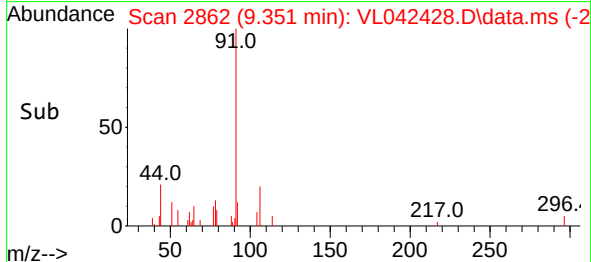
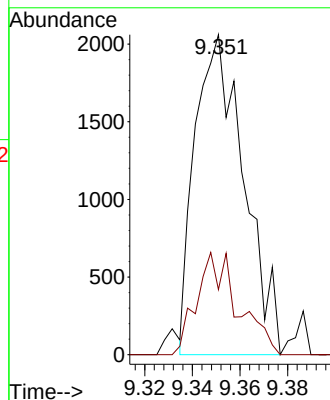
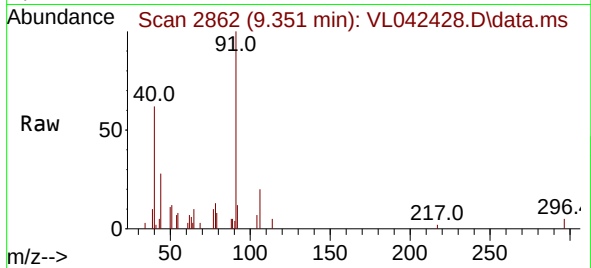




#58
Ethyl Benzene
Concen: 0.048 ppbv
RT: 9.351 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

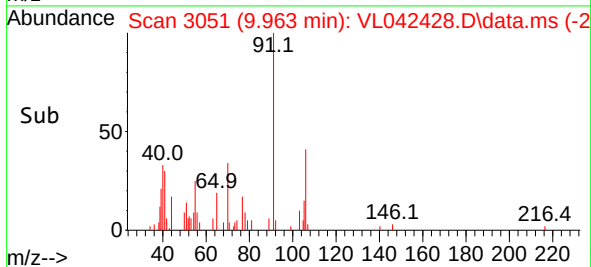
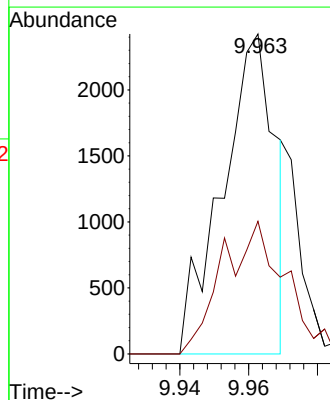
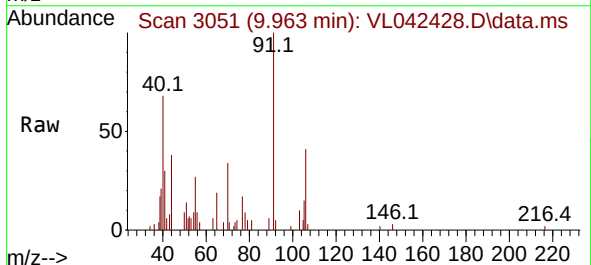
Instrument :
MSVOA_1
ClientSampleId :
EBR-P02-SC-IA01-20250423

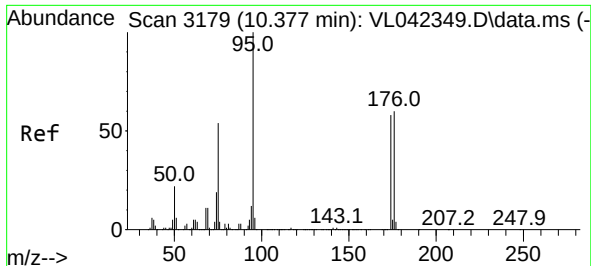
Tgt Ion: 91 Resp: 2937
Ion Ratio Lower Upper
91 100
106 20.3 23.0 34.4#



#60
o-Xylene
Concen: 0.052 ppbv
RT: 9.963 min Scan# 3051
Delta R.T. 0.000 min
Lab File: VL042428.D
Acq: 28 Apr 2025 16:16

Tgt Ion: 91 Resp: 2577
Ion Ratio Lower Upper
91 100
106 49.0 21.1 63.4

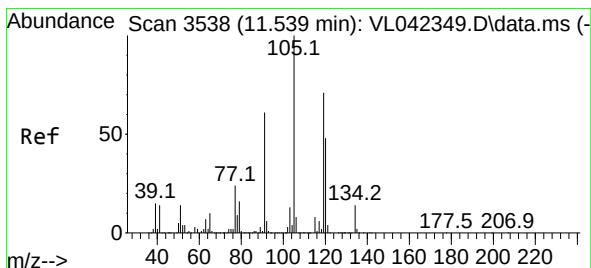
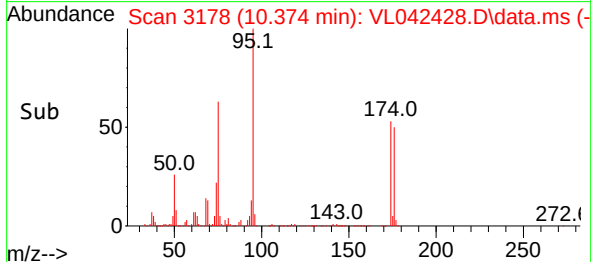
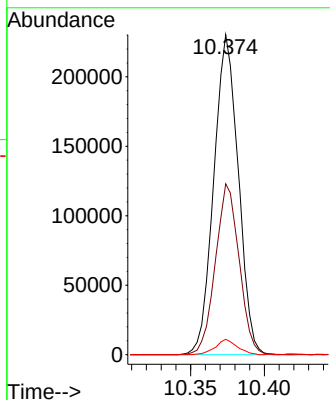
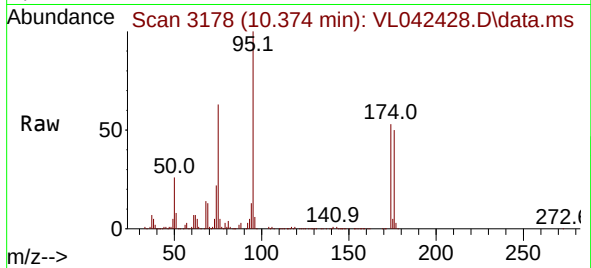




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.562 ppbv
 RT: 10.374 min Scan# 3179
 Delta R.T. -0.003 min
 Lab File: VL042428.D
 Acq: 28 Apr 2025 16:16

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P02-SC-IA01-20250423

Tgt Ion: 95 Resp: 265930
 Ion Ratio Lower Upper
 95 100
 174 51.8 48.5 72.7
 175 4.3 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.045 ppbv
 RT: 11.536 min Scan# 3537
 Delta R.T. -0.003 min
 Lab File: VL042428.D
 Acq: 28 Apr 2025 16:16

Tgt Ion: 105 Resp: 2789
 Ion Ratio Lower Upper
 105 100
 120 39.1 38.1 57.1
 91 16.1 48.8 73.2#
 77 20.0 19.0 28.4

