

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042433.D
 Acq On : 28 Apr 2025 19:08
 Operator : SY/MD
 Sample : Q1880-09
 Misc : 400mL/MSVOA_L
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EBR-P16-SC-AA-DUP-01-20250422

Quant Time: Apr 29 01:42:08 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	124369	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.959	114	336623	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	285626	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	259048	11.037	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.400%

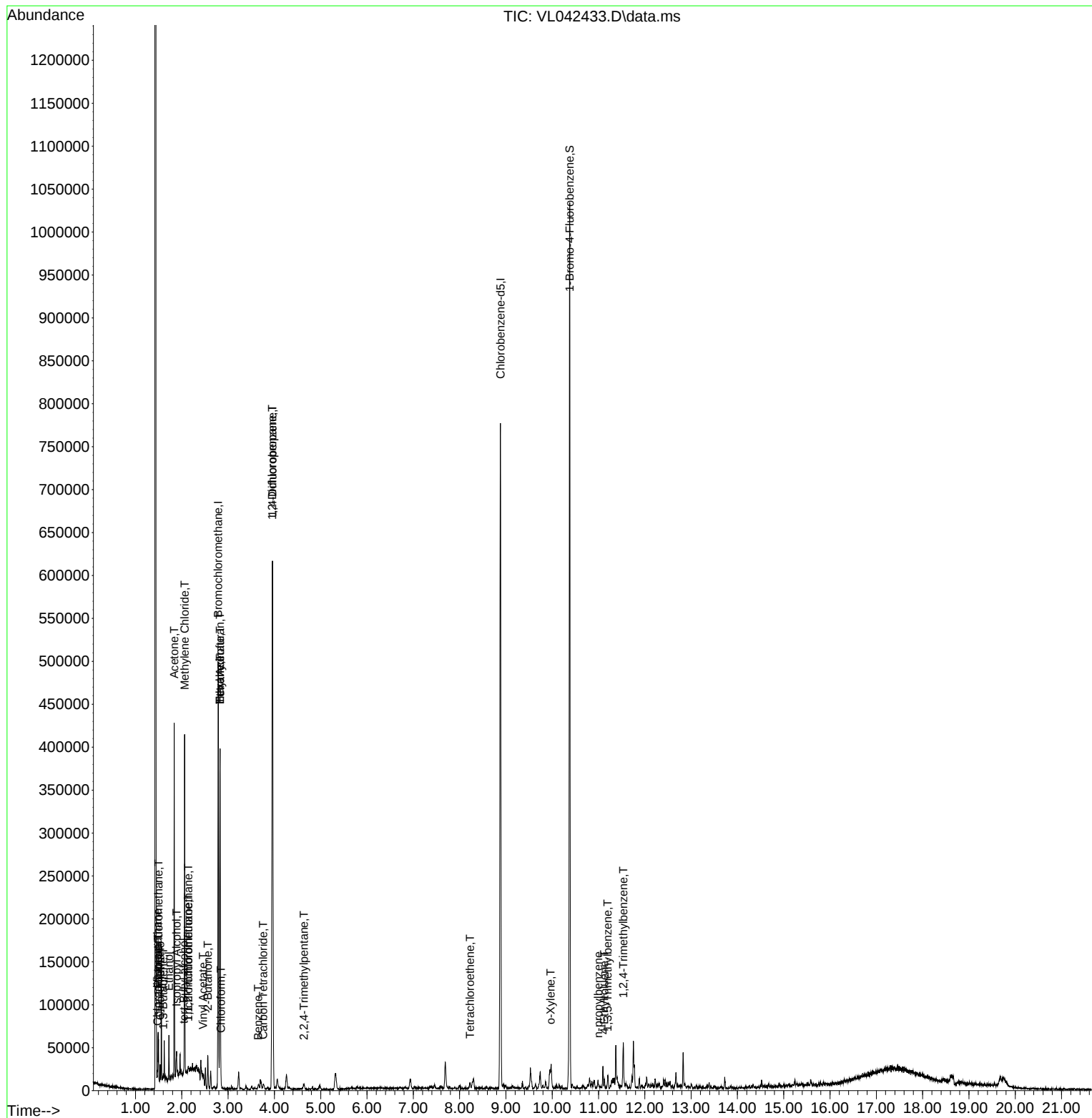
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	11120	0.506	ppbv	94
3) Chlorodifluoromethane	1.476	51	7475	0.357	ppbv	92
4) Chloromethane	1.531	50	5271	0.606	ppbv #	88
9) Propene	1.489	41	4141	0.435	ppbv #	76
11) Trichlorofluoromethane	2.140	101	1253	0.060	ppbv	93
12) 1,1,2-Trichlorotrifluo...	2.140	101	1253	0.073	ppbv	89
13) Ethanol	1.722	45	16946	11.189	ppbv	77
15) Acetone	1.835	43	168143	8.259	ppbv	99
16) 1,3-Butadiene	1.599	39	1316	0.135	ppbv #	9
17) tert-Butyl alcohol	2.043	59	2520	0.100	ppbv #	52
19) Isopropyl Alcohol	1.887	45	10020	0.886	ppbv #	1
20) Methylene Chloride	2.062	84	57715	7.238	ppbv	94
23) Vinyl Acetate	2.457	43	6424	0.780	ppbv #	87
25) Ethyl Acetate	2.826	43	61940	1.234	ppbv #	77
26) Hexane	2.826	57	90698	4.465	ppbv #	31
29) Chloroform	2.849	83	927	0.032	ppbv #	40
34) 2-Butanone	2.560	43	22290	0.837	ppbv	95
35) Carbon Tetrachloride	3.758	117	1020	0.033	ppbv #	57
36) Benzene	3.651	78	2138	0.059	ppbv #	76
39) 1,2-Dichloropropane	3.955	63	93535	6.913	ppbv #	23
41) Tetrahydrofuran	2.826	42	34912	2.249	ppbv #	50
44) 2,2,4-Trimethylpentane	4.638	57	2259	0.036	ppbv #	42
52) Tetrachloroethene	8.225	164	443	0.032	ppbv #	48
60) o-Xylene	9.966	91	5458	0.119	ppbv	96
64) n-propylbenzene	10.992	120	947	0.056	ppbv	65
72) 4-Ethyltoluene	11.125	105	4179	0.074	ppbv #	56
73) 1,3,5-Trimethylbenzene	11.199	105	4138	0.084	ppbv #	82
74) 1,2,4-Trimethylbenzene	11.536	105	15504	0.268	ppbv #	71

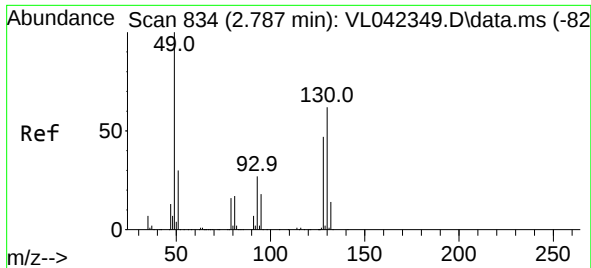
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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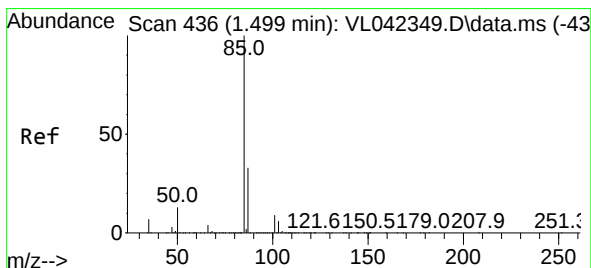
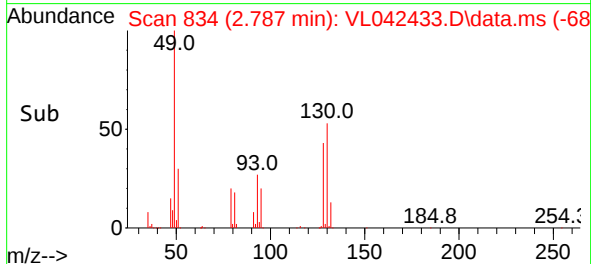
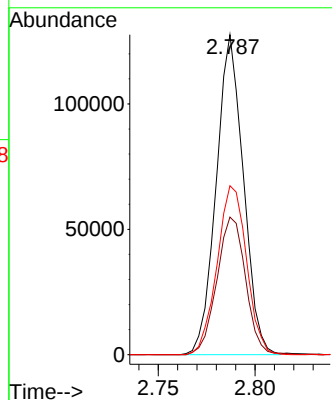
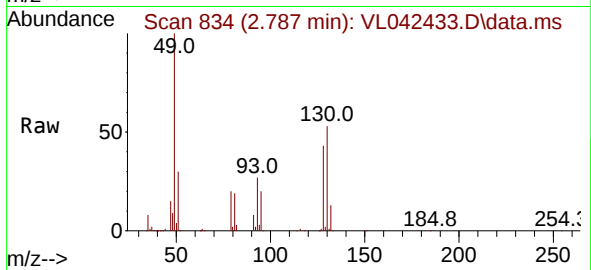




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.787 min Scan# 834
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

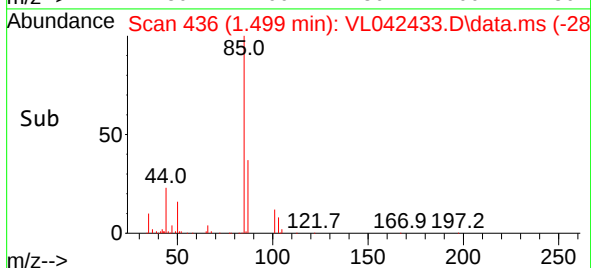
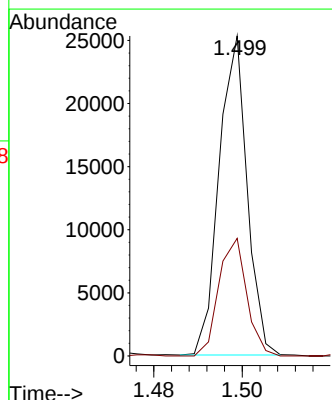
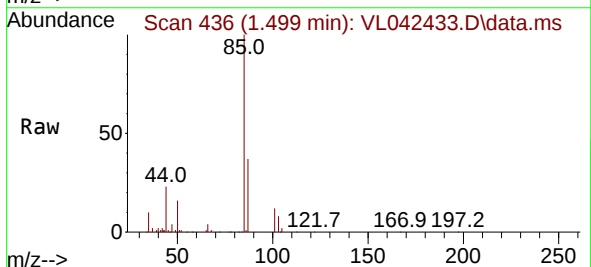
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA-DUP-01-20250422

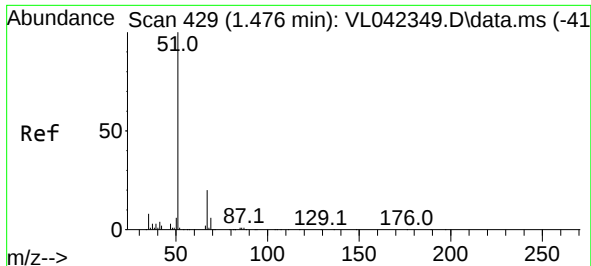
Tgt Ion: 49 Resp: 124369
Ion Ratio Lower Upper
49 100
128 45.5 22.8 68.4
130 57.4 29.3 88.0



#2
Dichlorodifluoromethane
Concen: 0.506 ppbv
RT: 1.499 min Scan# 436
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 85 Resp: 11120
Ion Ratio Lower Upper
85 100
87 36.9 26.6 39.8

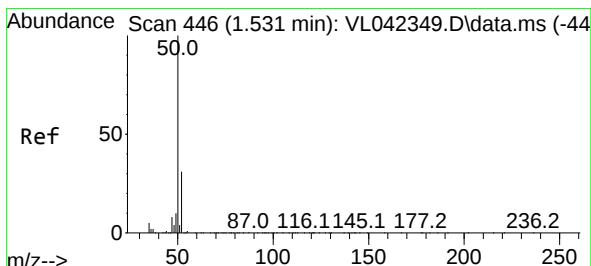
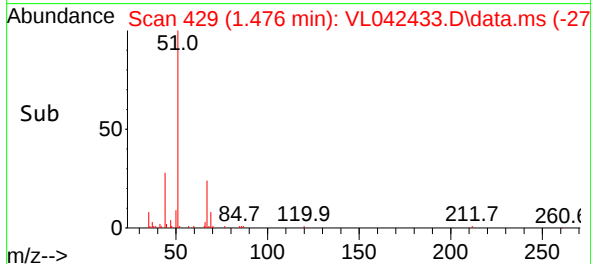
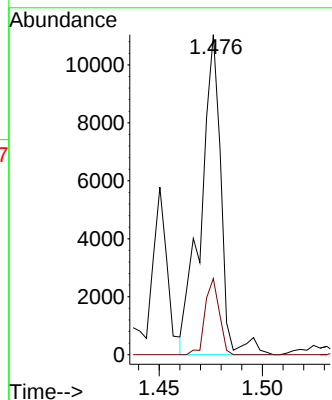
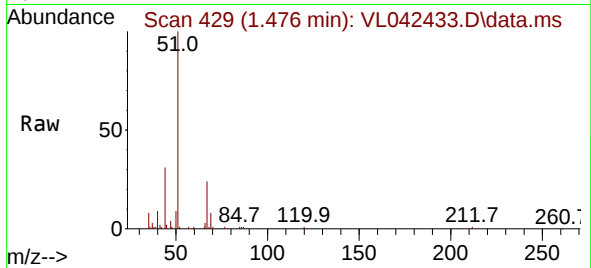




#3
Chlorodifluoromethane
Concen: 0.357 ppbv
RT: 1.476 min Scan# 429
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

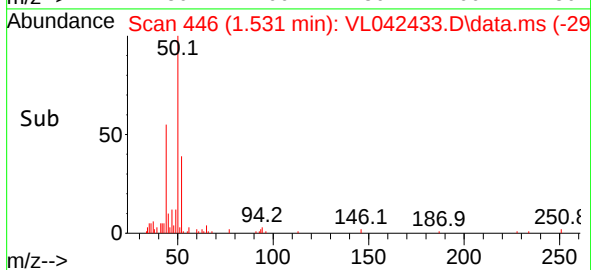
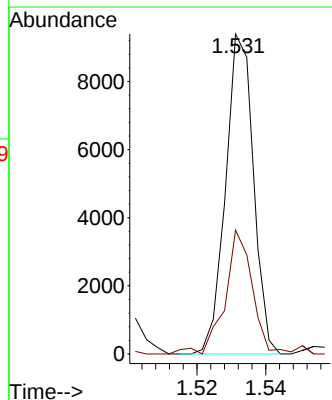
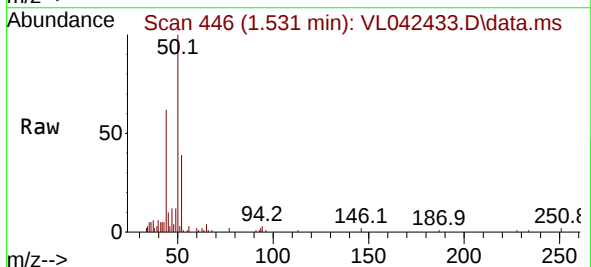
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA-DUP-01-20250422

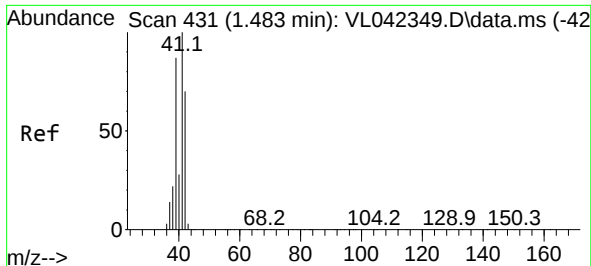
Tgt Ion: 51 Resp: 7475
Ion Ratio Lower Upper
51 100
67 16.6 16.2 24.4



#4
Chloromethane
Concen: 0.606 ppbv
RT: 1.531 min Scan# 446
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 50 Resp: 5271
Ion Ratio Lower Upper
50 100
52 37.4 24.7 37.1#





#9

Propene

Concen: 0.435 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL042433.D

Acq: 28 Apr 2025 19:08

Instrument :

MSVOA_L

ClientSampleId :

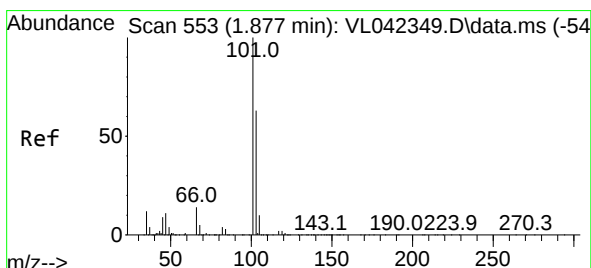
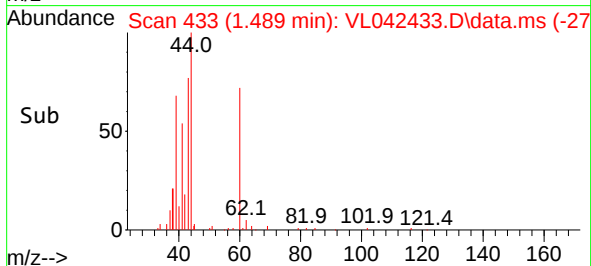
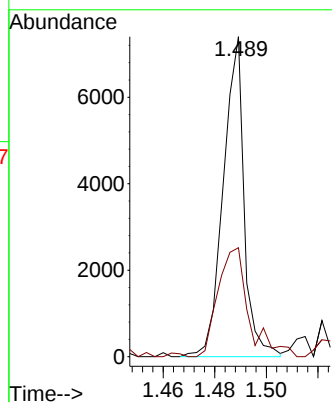
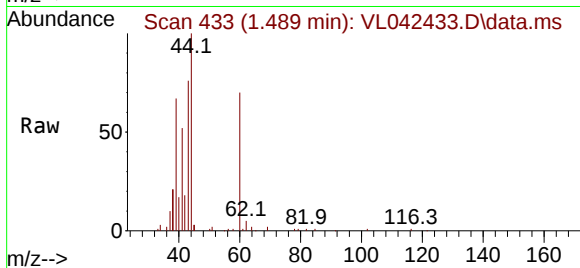
EBR-P16-SC-AA-DUP-01-20250422

Tgt Ion: 41 Resp: 4141

Ion Ratio Lower Upper

41 100

42 50.9 56.2 84.4#



#11

Trichlorofluoromethane

Concen: 0.060 ppbv

RT: 2.140 min Scan# 634

Delta R.T. 0.262 min

Lab File: VL042433.D

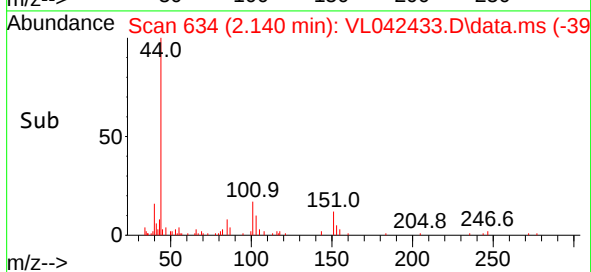
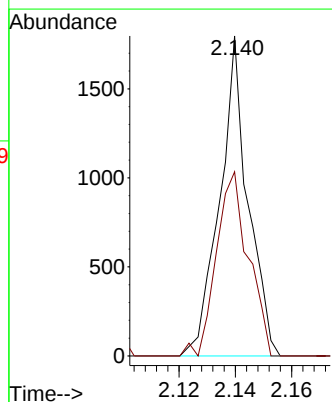
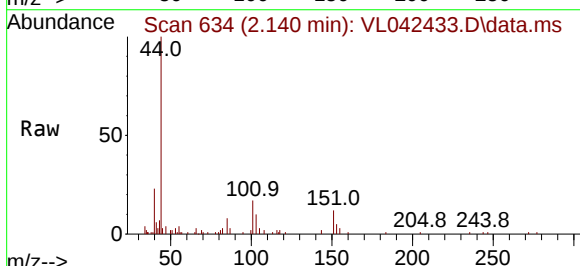
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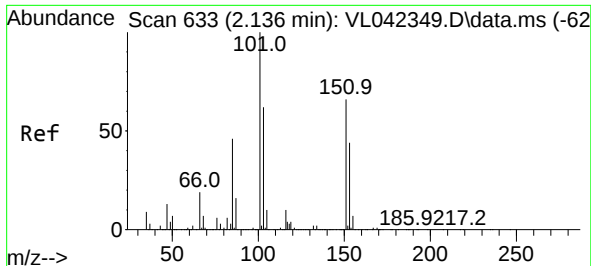
Tgt Ion:101 Resp: 1253

Ion Ratio Lower Upper

101 100

103 57.5 50.1 75.1

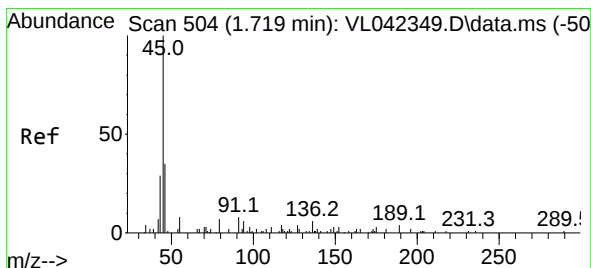
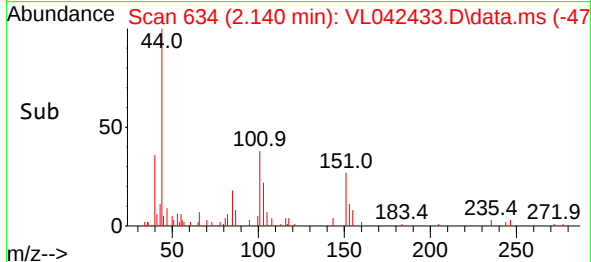
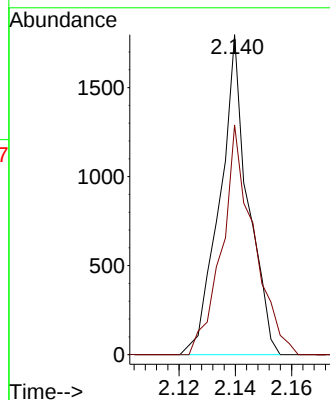
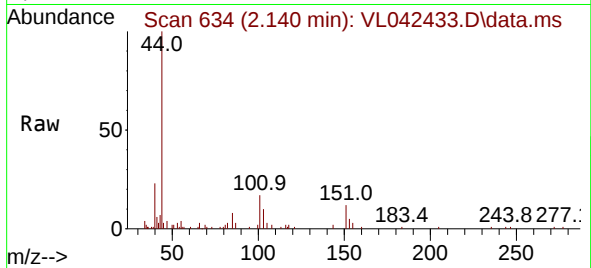




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.073 ppbv
RT: 2.140 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

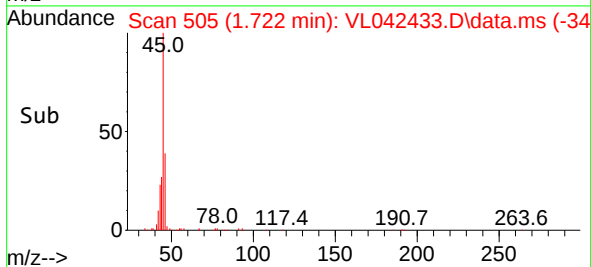
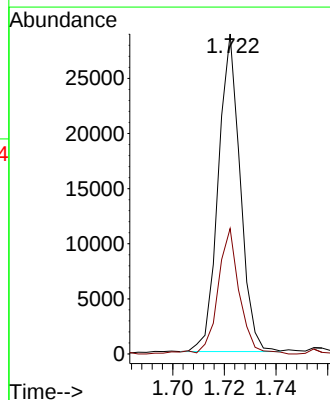
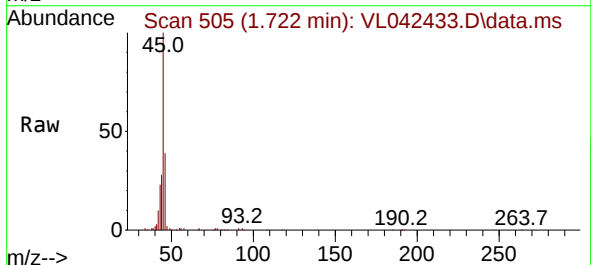
Instrument :
MSVOA_L
ClientSampleId :
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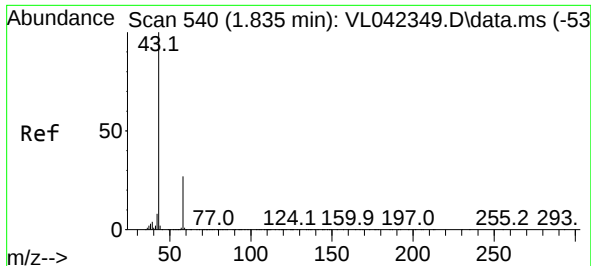
Tgt Ion:101 Resp: 1253
Ion Ratio Lower Upper
101 100
151 80.8 57.0 85.6



#13
Ethanol
Concen: 11.189 ppbv
RT: 1.722 min Scan# 505
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 45 Resp: 16946
Ion Ratio Lower Upper
45 100
46 38.1 21.9 87.7

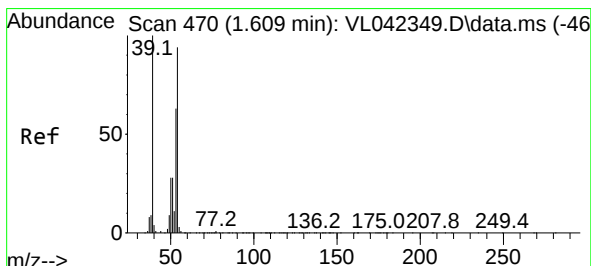
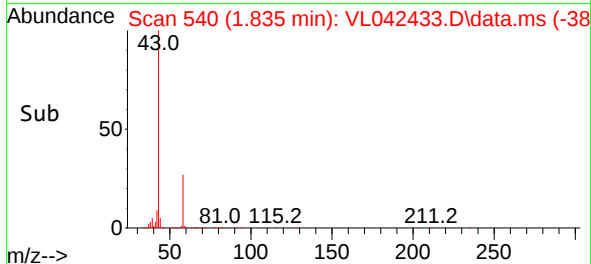
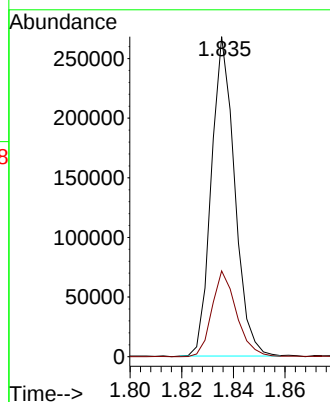
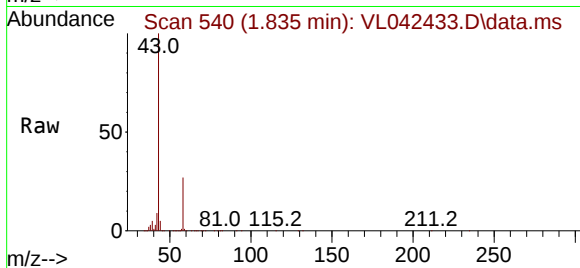




#15
Acetone
Concen: 8.259 ppbv
RT: 1.835 min Scan# 540
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

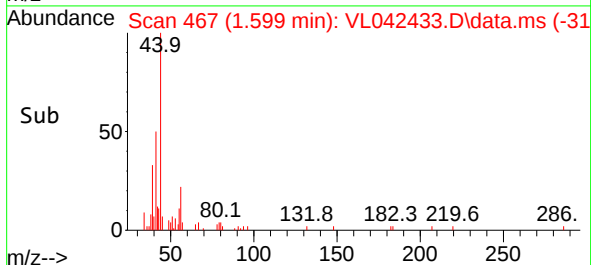
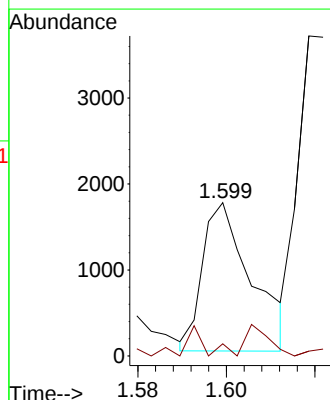
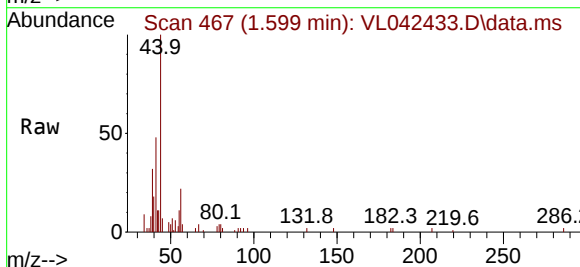
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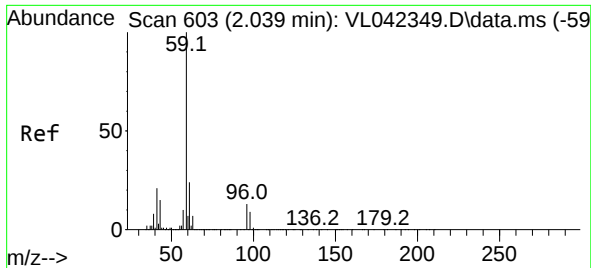
Tgt Ion: 43 Resp: 168143
Ion Ratio Lower Upper
43 100
58 28.6 22.4 33.6



#16
1,3-Butadiene
Concen: 0.135 ppbv
RT: 1.599 min Scan# 467
Delta R.T. -0.010 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 39 Resp: 1316
Ion Ratio Lower Upper
39 100
54 0.0 64.9 97.3#

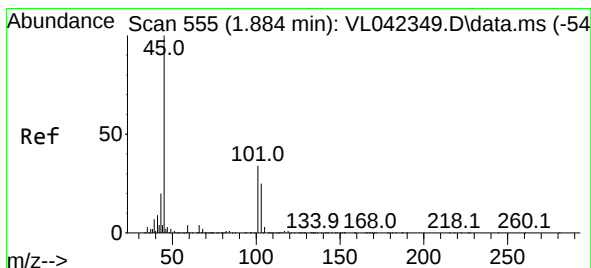
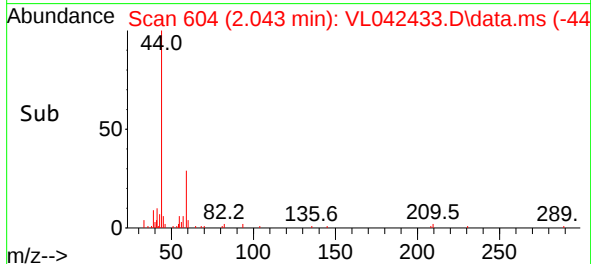
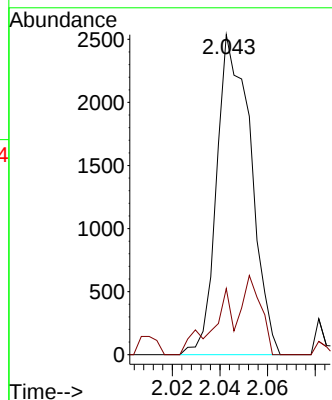
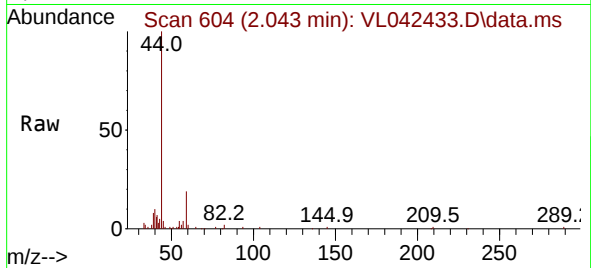




#17
tert-Butyl alcohol
Concen: 0.100 ppbv
RT: 2.043 min Scan# 603
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

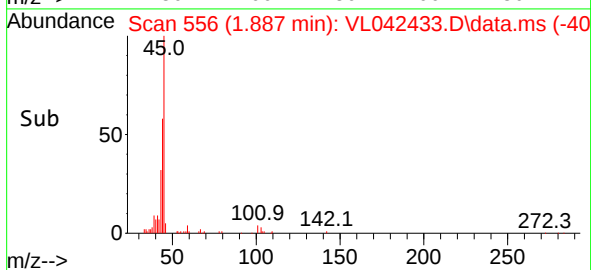
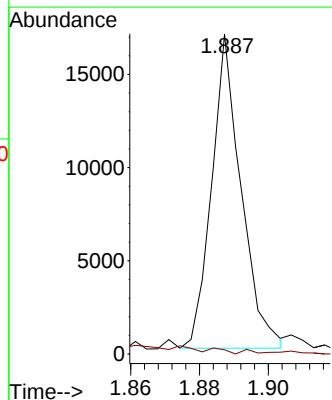
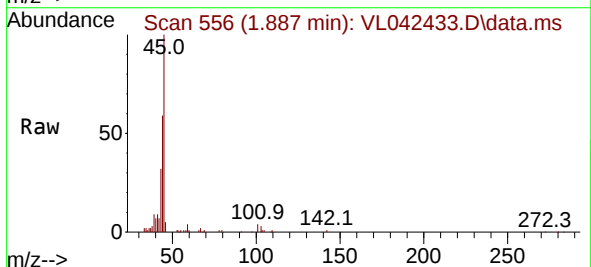
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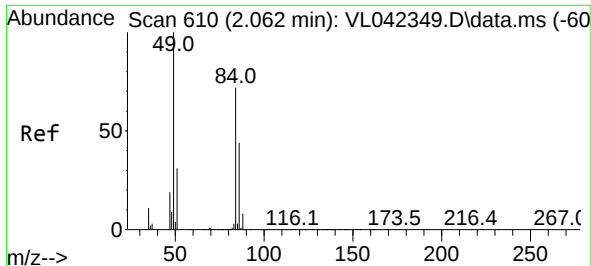
Tgt Ion: 59 Resp: 2520
Ion Ratio Lower Upper
59 100
57 29.0 8.7 13.1#



#19
Isopropyl Alcohol
Concen: 0.886 ppbv
RT: 1.887 min Scan# 556
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 45 Resp: 10020
Ion Ratio Lower Upper
45 100
58 479.7 34.5 51.7#

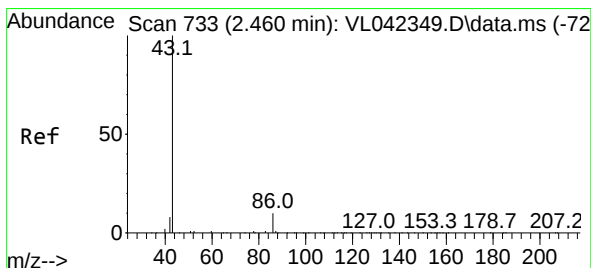
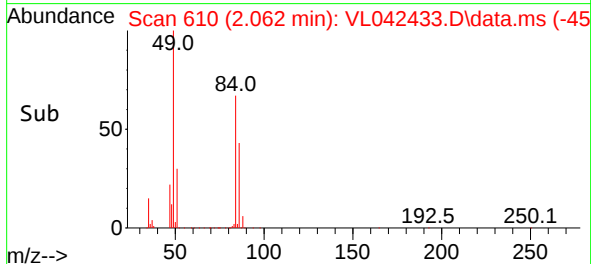
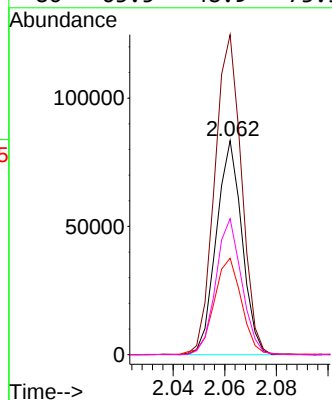
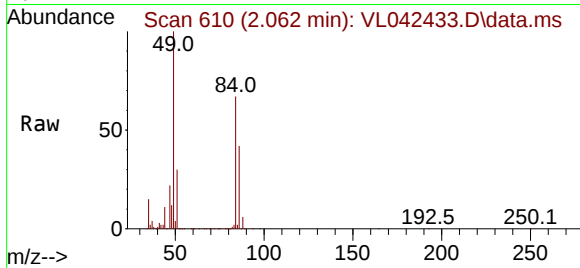




#20
Methylene Chloride
Concen: 7.238 ppbv
RT: 2.062 min Scan# 610
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

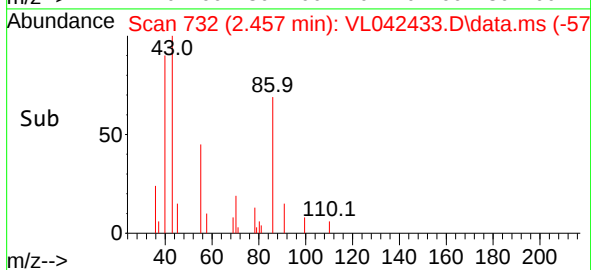
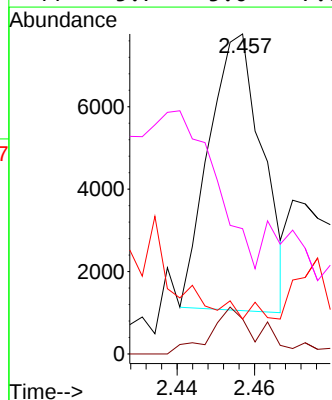
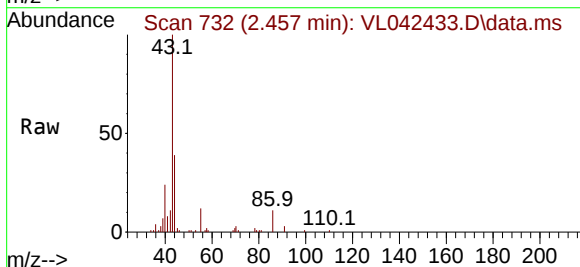
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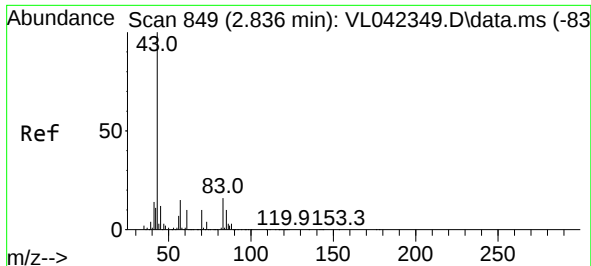
Tgt Ion:	84	Resp:	57715
Ion	Ratio	Lower	Upper
84	100		
49	149.3	111.6	167.4
51	44.9	35.1	52.7
86	63.5	48.9	73.3



#23
Vinyl Acetate
Concen: 0.780 ppbv
RT: 2.457 min Scan# 732
Delta R.T. -0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion:	43	Resp:	6424
Ion	Ratio	Lower	Upper
43	100		
86	9.7	6.5	9.7
42	0.0	7.8	11.8#
44	5.7	5.0	7.6

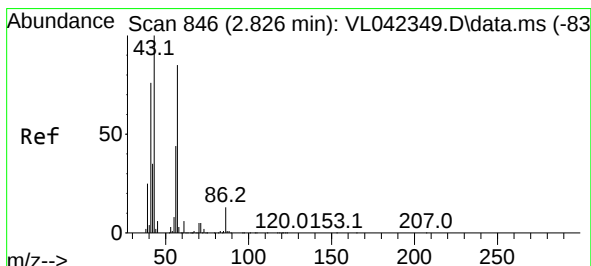
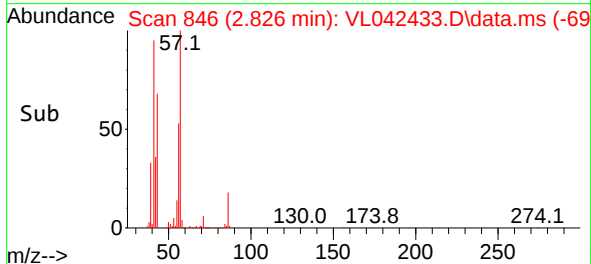
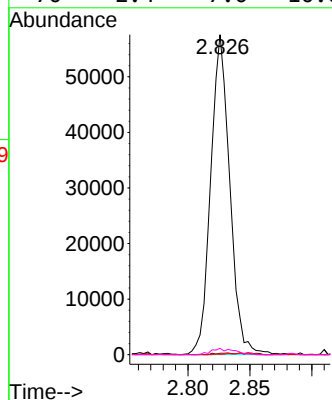
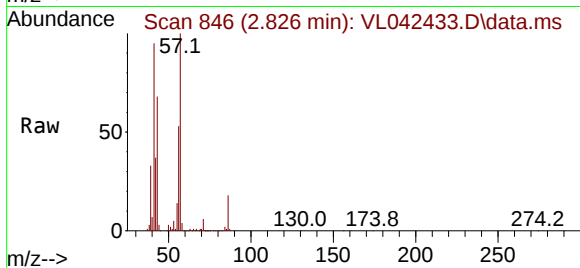




#25
Ethyl Acetate
Concen: 1.234 ppbv
RT: 2.826 min Scan# 849
Delta R.T. -0.010 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

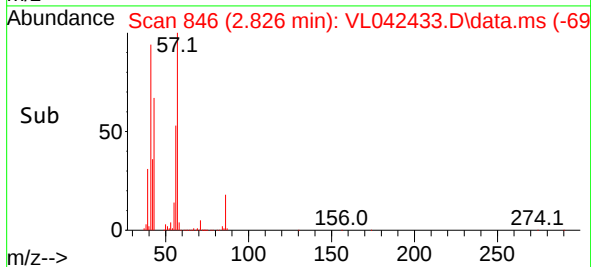
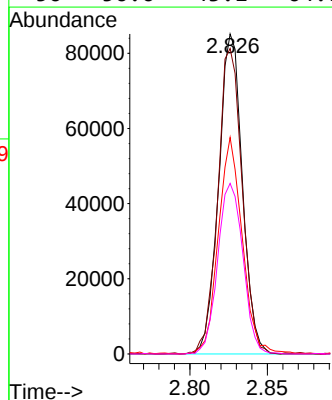
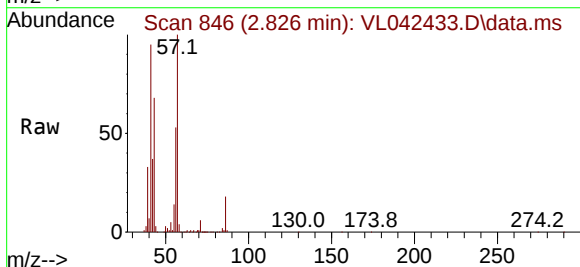
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-AA-DUP-01-20250422

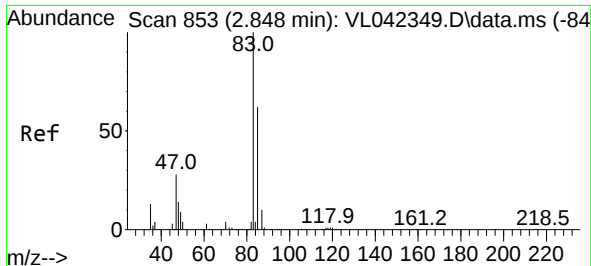
Tgt Ion: 43	Resp: 61940
Ion Ratio	Lower Upper
43 100	
45 0.5	8.3 12.5#
61 0.0	7.3 10.9#
70 2.4	7.0 10.6#



#26
Hexane
Concen: 4.465 ppbv
RT: 2.826 min Scan# 846
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt	Ion: 57	Resp:	90698
Ion	Ratio	Lower	Upper
57	100		
41	98.1	77.9	116.9
43	67.6	208.4	312.6#
56	56.6	43.1	64.7





#29

Chloroform

Concen: 0.032 ppbv

RT: 2.849 min Scan# 853

Delta R.T. 0.000 min

Lab File: VL042433.D

Acq: 28 Apr 2025 19:08

Instrument :

MSVOA_L

ClientSampleId :

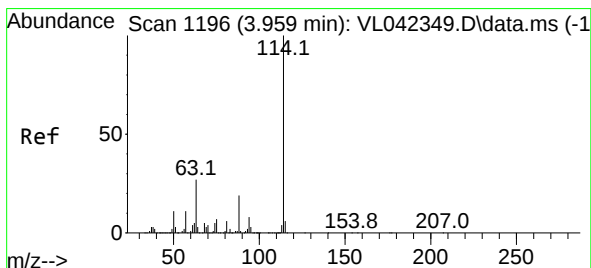
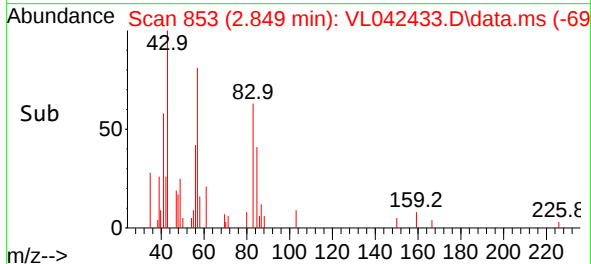
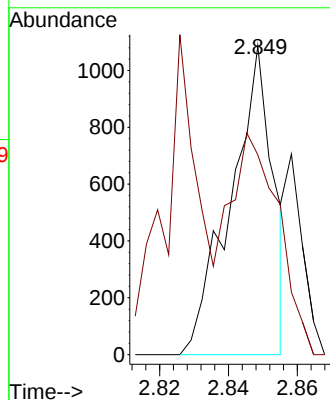
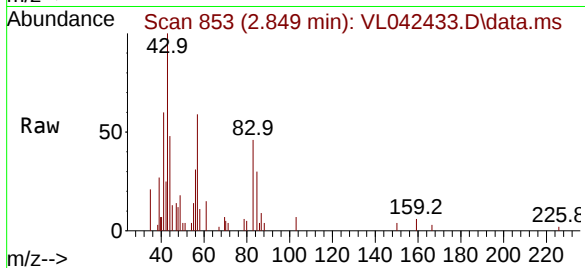
EBR-P16-SC-AA-DUP-01-20250422

Tgt Ion: 83 Resp: 927

Ion Ratio Lower Upper

83 100

85 16.0 50.0 75.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.959 min Scan# 1196

Delta R.T. 0.000 min

Lab File: VL042433.D

Acq: 28 Apr 2025 19:08

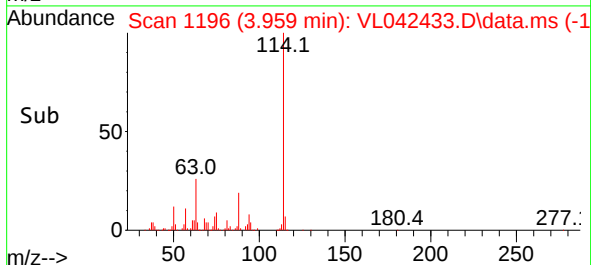
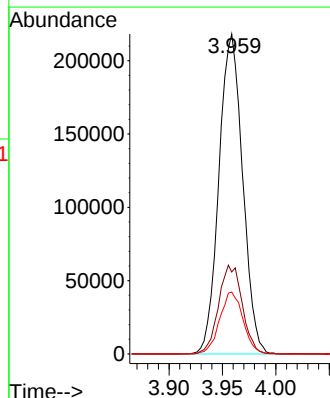
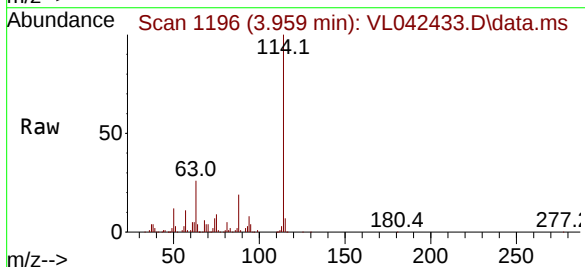
Tgt Ion: 114 Resp: 336623

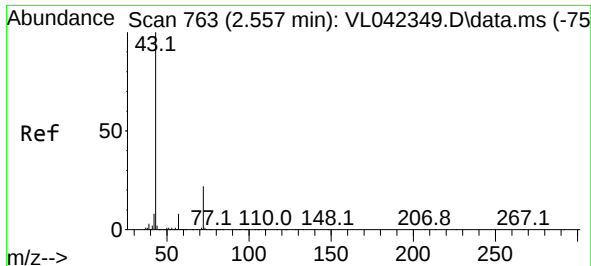
Ion Ratio Lower Upper

114 100

63 27.9 21.8 32.6

88 19.1 15.5 23.3

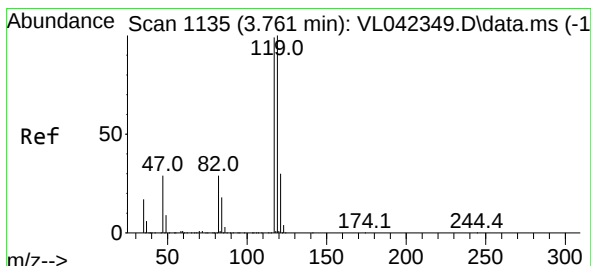
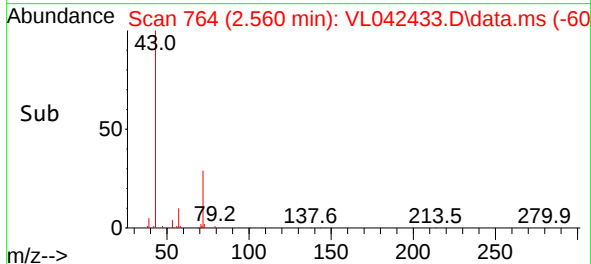
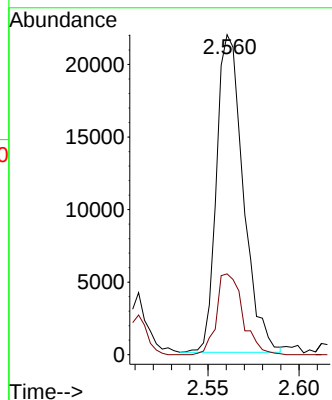
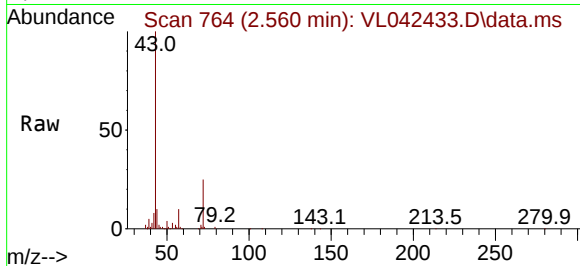




#34
2-Butanone
Concen: 0.837 ppbv
RT: 2.560 min Scan# 764
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

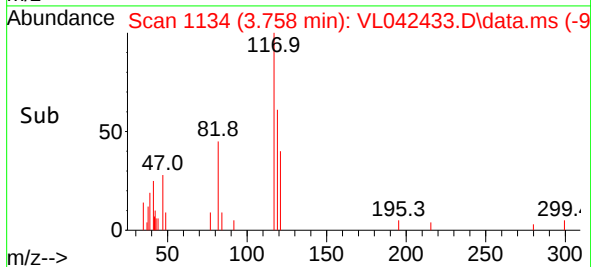
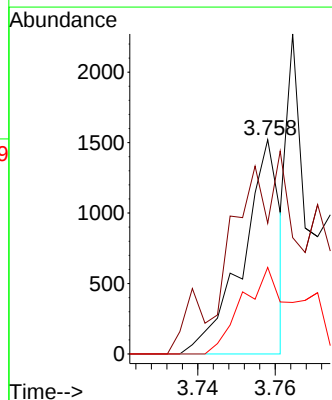
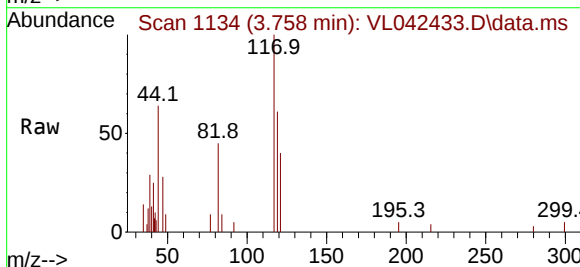
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA-DUP-01-20250422

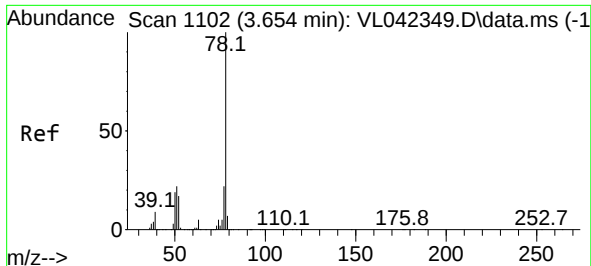
Tgt Ion: 43 Resp: 22290
Ion Ratio Lower Upper
43 100
72 25.0 18.2 27.2



#35
Carbon Tetrachloride
Concen: 0.033 ppbv
RT: 3.758 min Scan# 1134
Delta R.T. -0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 117 Resp: 1020
Ion Ratio Lower Upper
117 100
119 50.6 80.5 120.7#
121 40.4 24.2 36.2#

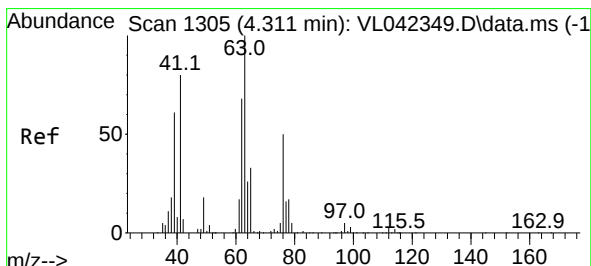
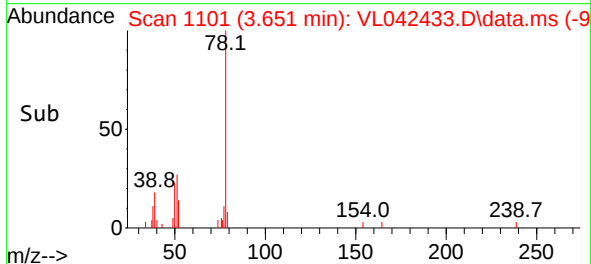
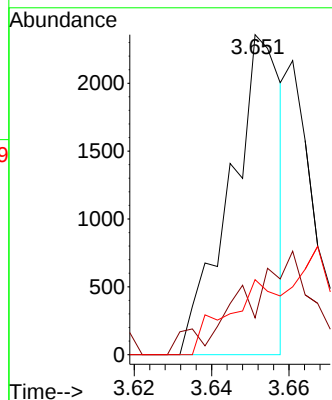
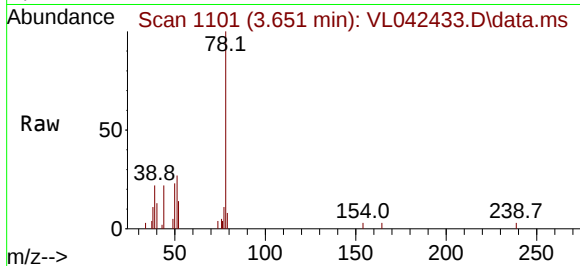




#36
Benzene
Concen: 0.059 ppbv
RT: 3.651 min Scan# 1102
Delta R.T. -0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

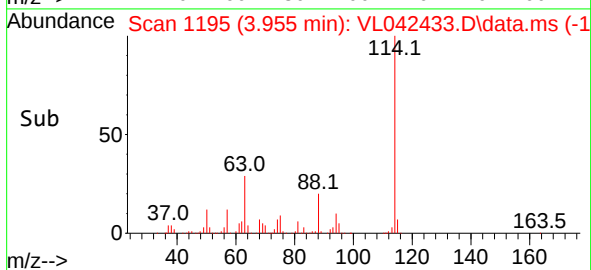
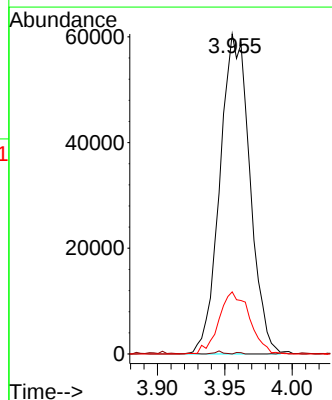
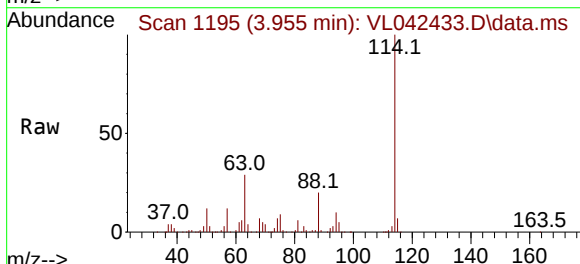
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA-DUP-01-20250422

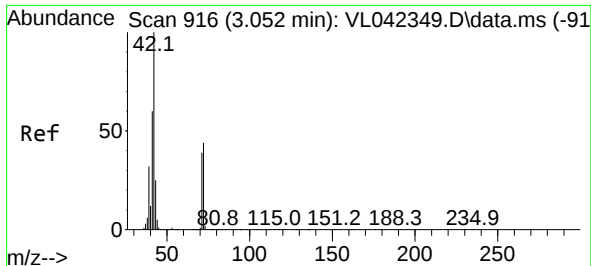
Tgt Ion: 78 Resp: 2138
Ion Ratio Lower Upper
78 100
77 4.4 17.4 26.0#
50 23.5 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 6.913 ppbv
RT: 3.955 min Scan# 1195
Delta R.T. -0.356 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 63 Resp: 93535
Ion Ratio Lower Upper
63 100
41 0.1 64.2 96.2#
62 19.4 54.3 81.5#

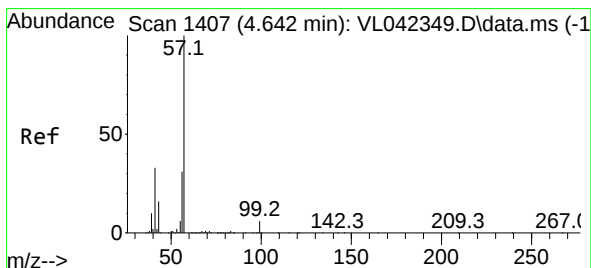
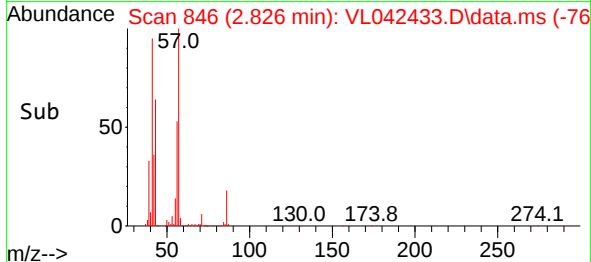
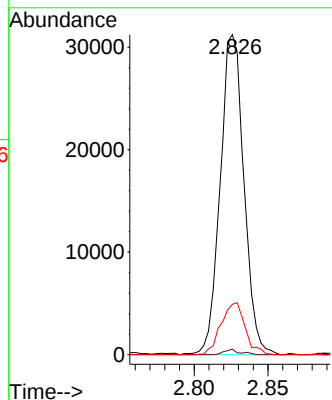
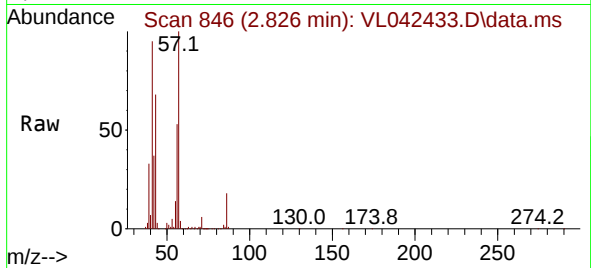




#41
Tetrahydrofuran
Concen: 2.249 ppbv
RT: 2.826 min Scan# 84
Delta R.T. -0.226 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

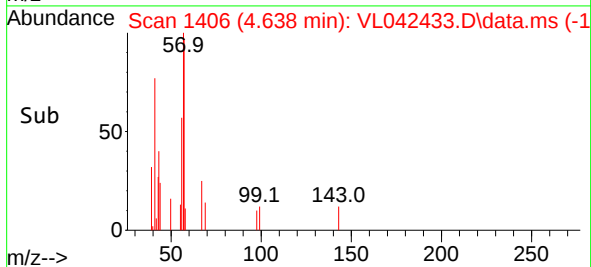
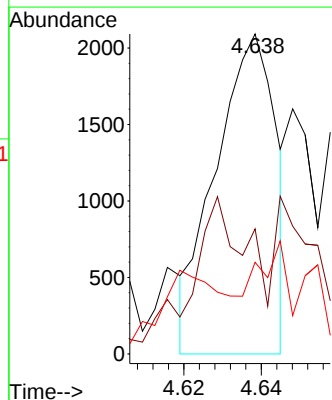
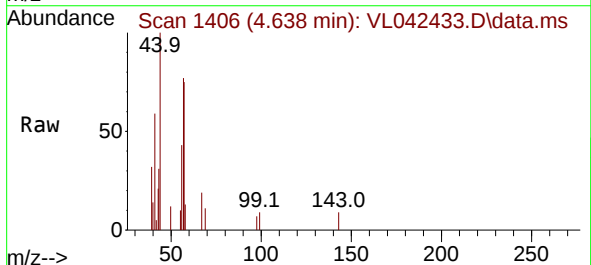
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-AA-DUP-01-20250422

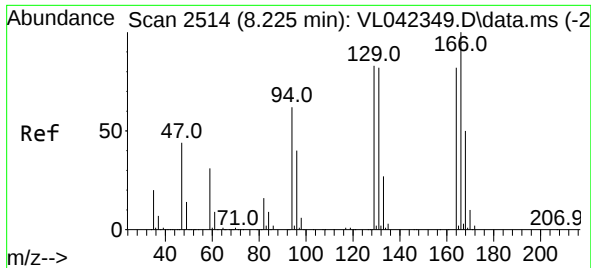
Tgt Ion: 42 Resp: 34912
Ion Ratio Lower Upper
42 100
72 1.1 32.3 48.5#
71 16.6 31.4 47.2#



#44
2,2,4-Trimethylpentane
Concen: 0.036 ppbv
RT: 4.638 min Scan# 1406
Delta R.T. -0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 57 Resp: 2259
Ion Ratio Lower Upper
57 100
41 0.0 27.2 40.8#
56 0.0 25.7 38.5#

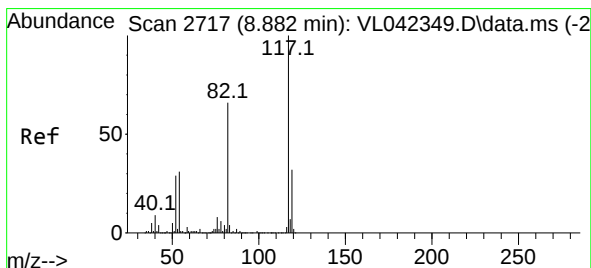
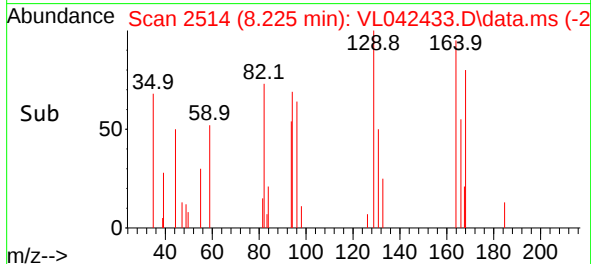
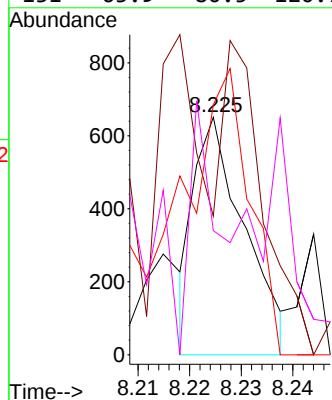
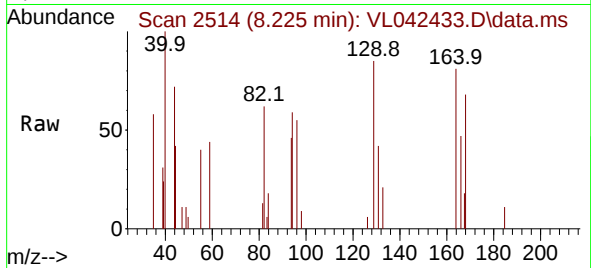




#52
Tetrachloroethene
Concen: 0.032 ppbv
RT: 8.225 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

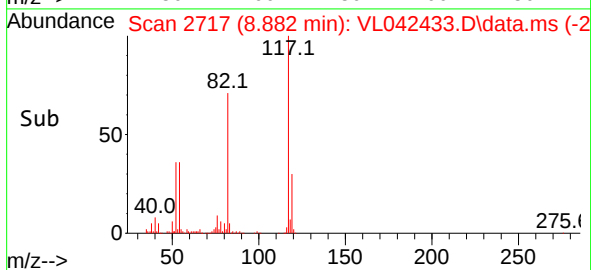
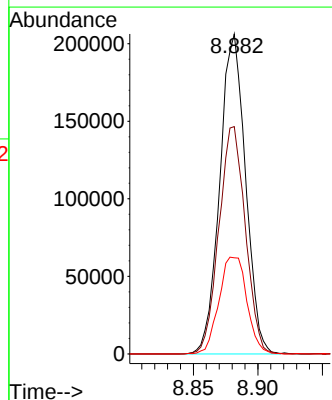
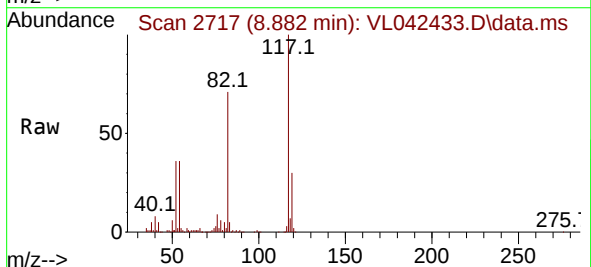
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA-DUP-01-20250422

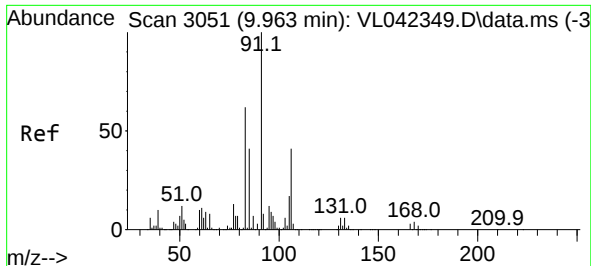
Tgt Ion:164 Resp: 443
Ion Ratio Lower Upper
164 100
166 25.6 98.2 147.2#
129 128.8 81.8 122.8#
131 63.9 80.5 120.7#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.882 min Scan# 2717
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion:117 Resp: 285626
Ion Ratio Lower Upper
117 100
82 72.9 57.8 86.6
119 33.0 25.2 37.8

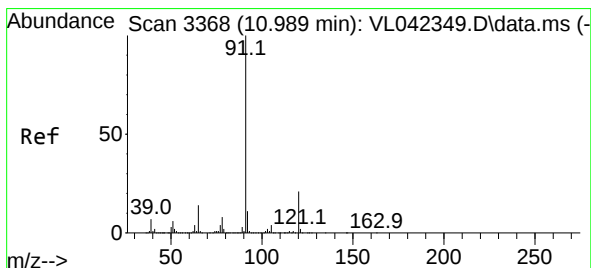
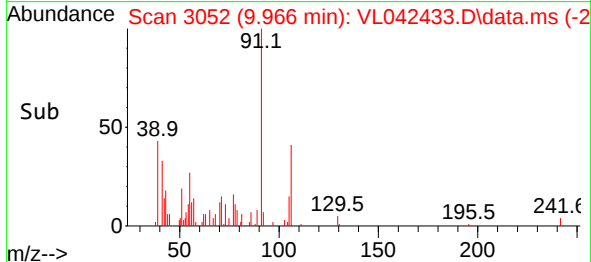
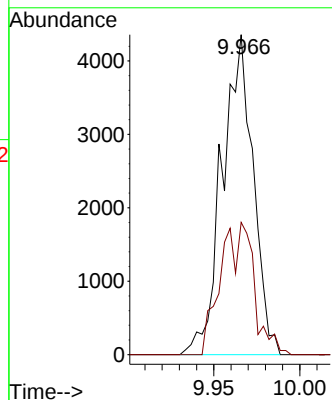
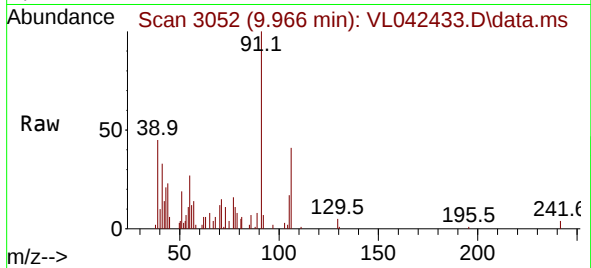




#60
o-Xylene
Concen: 0.119 ppbv
RT: 9.966 min Scan# 3051
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

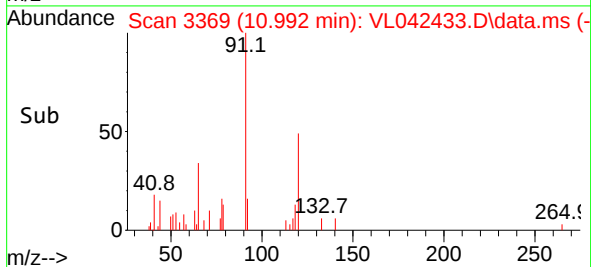
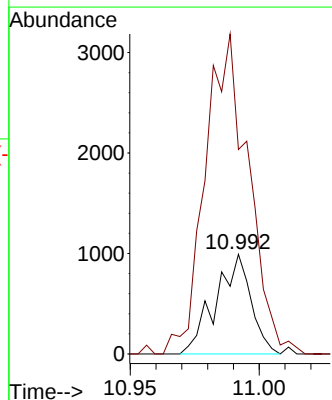
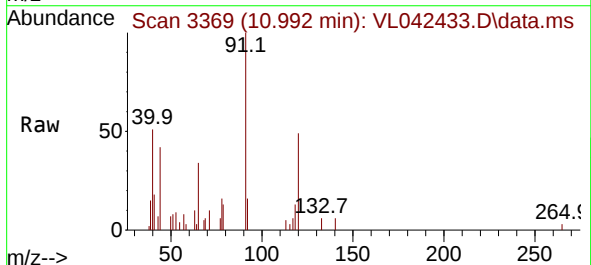
Instrument :
MSVOA_L
ClientSampleId :
EBR-P16-SC-AA-DUP-01-20250422

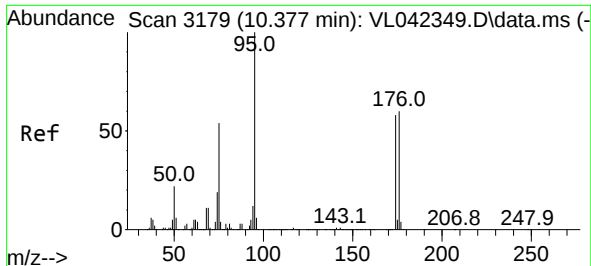
Tgt Ion: 91 Resp: 5458
Ion Ratio Lower Upper
91 100
106 44.7 21.1 63.4



#64
n-propylbenzene
Concen: 0.056 ppbv
RT: 10.992 min Scan# 3369
Delta R.T. 0.003 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 120 Resp: 947
Ion Ratio Lower Upper
120 100
91 394.0 392.4 588.6

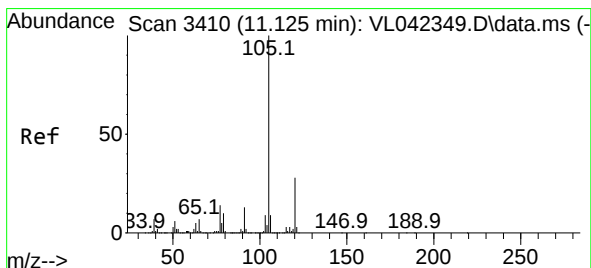
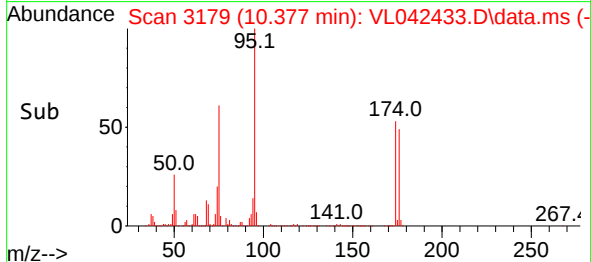
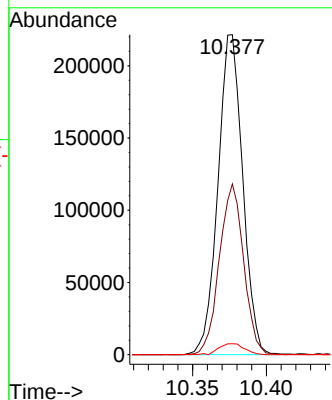
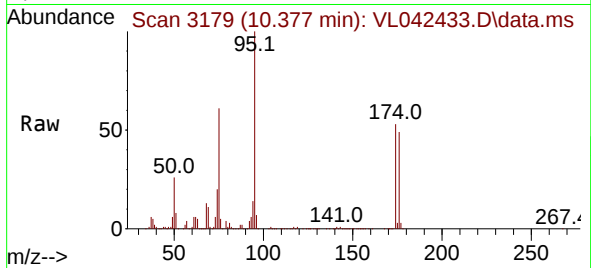




#68
1-Bromo-4-Fluorobenzene
Concen: 11.037 ppbv
RT: 10.377 min Scan# 3179
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

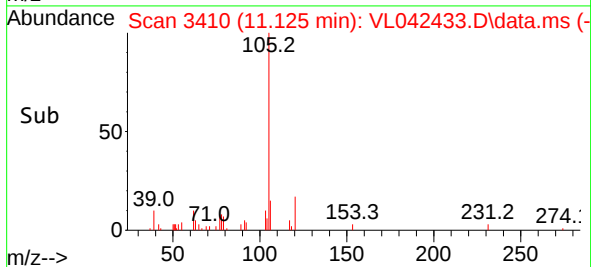
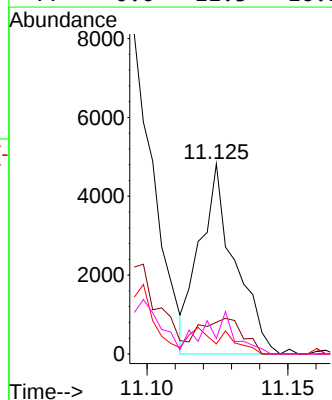
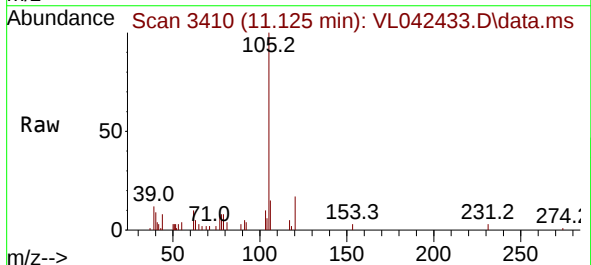
Instrument : MSVOA_L
ClientSampleId : EBR-P16-SC-AA-DUP-01-20250422

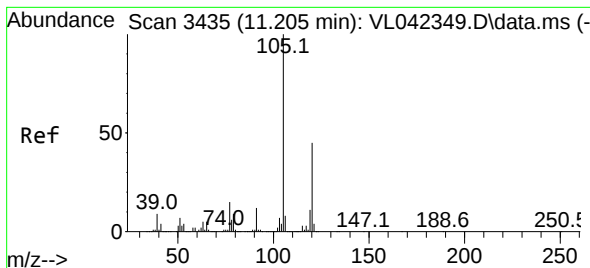
Tgt Ion: 95 Resp: 259048
Ion Ratio Lower Upper
95 100
174 52.2 48.5 72.7
175 3.6 3.7 5.5#



#72
4-Ethyltoluene
Concen: 0.074 ppbv
RT: 11.125 min Scan# 3410
Delta R.T. 0.000 min
Lab File: VL042433.D
Acq: 28 Apr 2025 19:08

Tgt Ion: 105 Resp: 4179
Ion Ratio Lower Upper
105 100
120 0.0 23.2 34.8#
91 0.0 10.4 15.6#
77 0.0 11.3 16.9#





#73

1,3,5-Trimethylbenzene

Concen: 0.084 ppbv

RT: 11.199 min Scan# 3435

Delta R.T. -0.006 min

Lab File: VL042433.D

Acq: 28 Apr 2025 19:08

Instrument :

MSVOA_L

ClientSampleId :

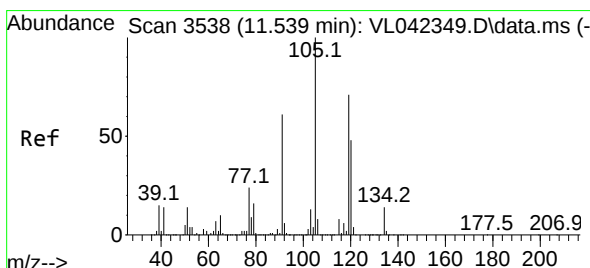
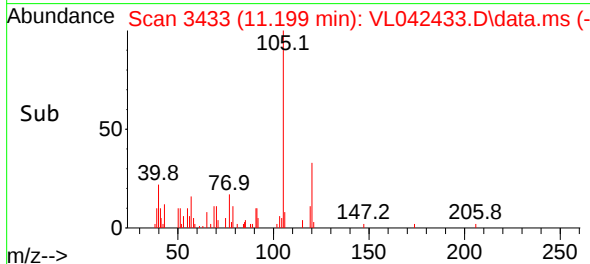
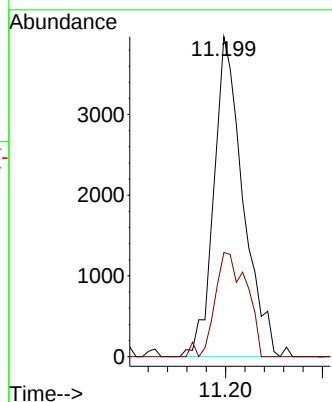
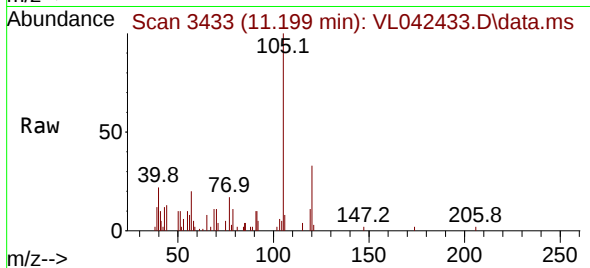
EBR-P16-SC-AA-DUP-01-20250422

Tgt Ion:105 Resp: 4138

Ion Ratio Lower Upper

105 100

120 32.6 35.6 53.4#



#74

1,2,4-Trimethylbenzene

Concen: 0.268 ppbv

RT: 11.536 min Scan# 3537

Delta R.T. -0.003 min

Lab File: VL042433.D

Acq: 28 Apr 2025 19:08

Tgt Ion:105 Resp: 15504

Ion Ratio Lower Upper

105 100

120 45.3 38.1 57.1

91 16.7 48.8 73.2#

77 20.3 19.0 28.4

