

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041439.D
 Acq On : 29 Jul 2024 21:47
 Operator : SY/MD
 Sample : P3342-05DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-IA-02DL

Quant Time: Jul 30 02:54:59 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jul 30 02:42:20 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.192	49	1141037	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.652	114	3063699	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2772990	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.777	95	2180047	10.216	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.200%

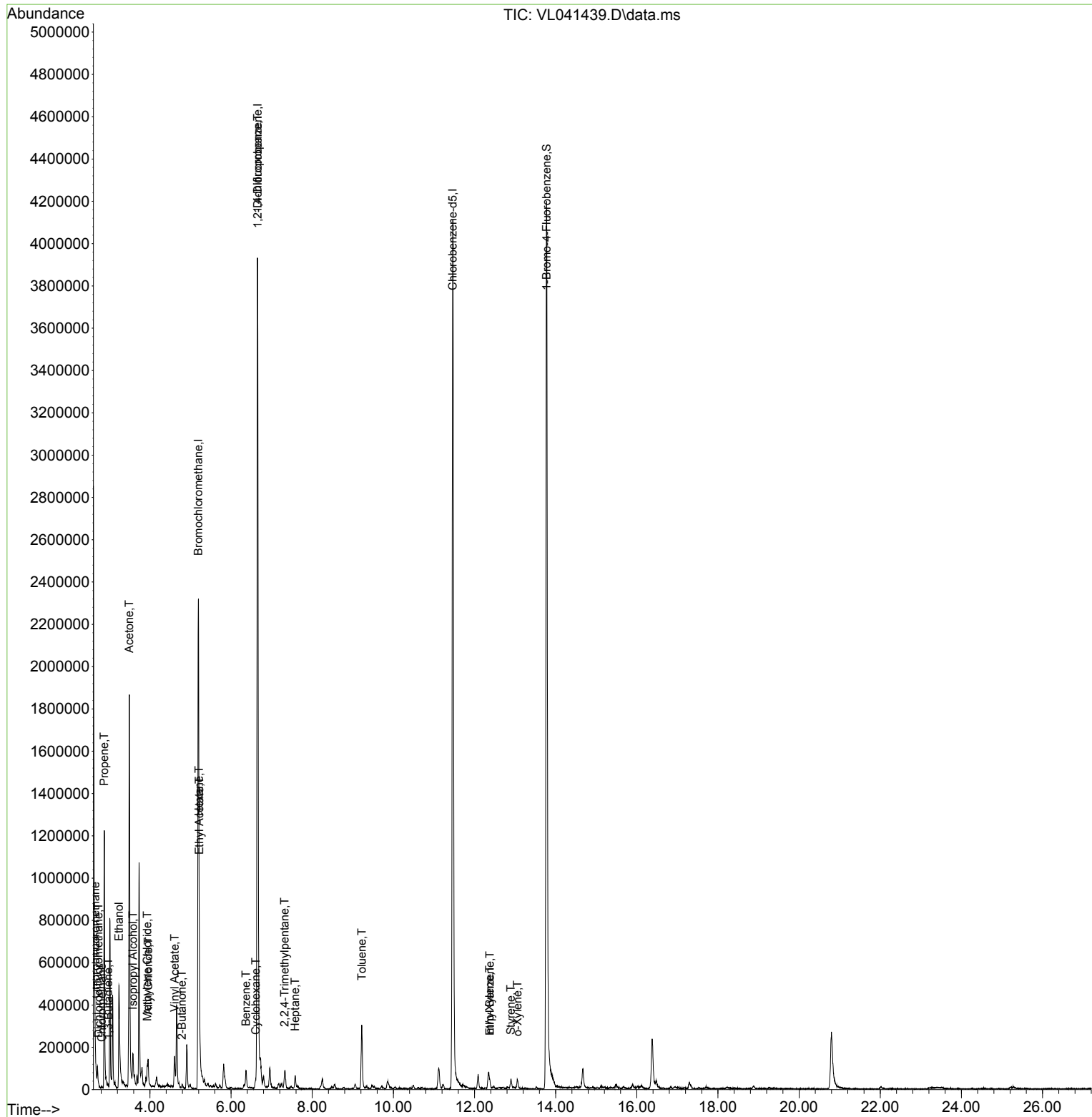
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.732	85	9102	0.046	ppbv	98
3) Chlorodifluoromethane	2.655	51	5468	0.040	ppbv #	62
4) Chloromethane	2.812	50	3653	0.051	ppbv	94
9) Propene	2.874	41	344851	5.526	ppbv	94
10) Heptane	7.578	43	23867	0.170	ppbv	98
13) Ethanol	3.237	45	575530	103.194	ppbv	95
15) Acetone	3.491	43	748291	5.772	ppbv #	65
16) 1,3-Butadiene	2.970	39	4240	0.061	ppbv #	18
19) Isopropyl Alcohol	3.581	45	170688	2.252	ppbv	99
20) Methylene Chloride	3.935	84	27824	0.576	ppbv	91
21) Allyl Chloride	3.957	41	12250	0.144	ppbv #	1
23) Vinyl Acetate	4.610	43	51362	0.519	ppbv #	1
25) Ethyl Acetate	5.214	43	122398	0.475	ppbv #	70
26) Hexane	5.211	57	121507	1.137	ppbv #	49
30) Cyclohexane	6.607	84	5438	0.063	ppbv #	1
34) 2-Butanone	4.790	43	11236	0.076	ppbv #	54
36) Benzene	6.365	78	36644	0.164	ppbv #	95
39) 1,2-Dichloropropane	6.655	63	766421	8.942	ppbv #	25
44) 2,2,4-Trimethylpentane	7.320	57	27760	0.074	ppbv #	1
53) Toluene	9.221	91	231283	0.928	ppbv	97
58) Ethyl Benzene	12.381	91	14157	0.044	ppbv	94
59) m/p-Xylene	12.372	91	8460	0.031	ppbv #	31
60) o-Xylene	13.060	91	19980	0.077	ppbv #	63
61) Styrene	12.896	104	16212	0.138	ppbv #	55

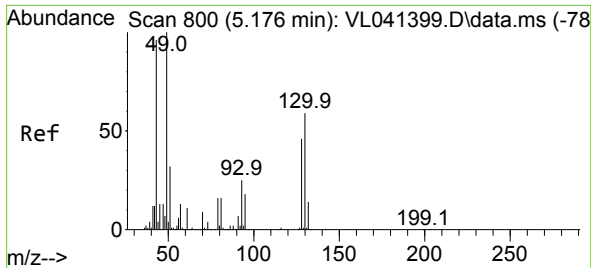
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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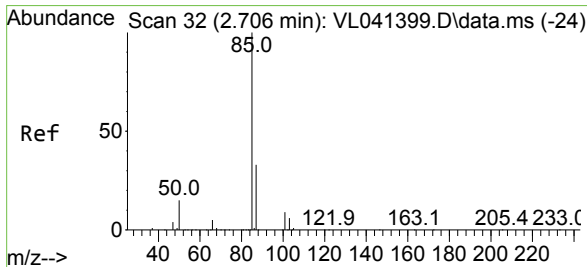
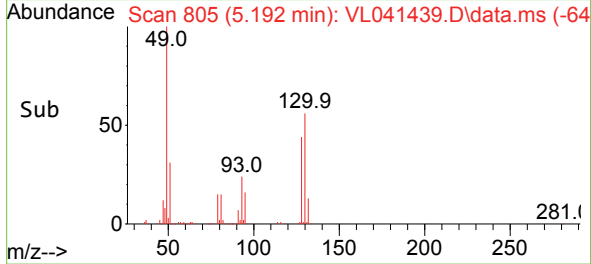
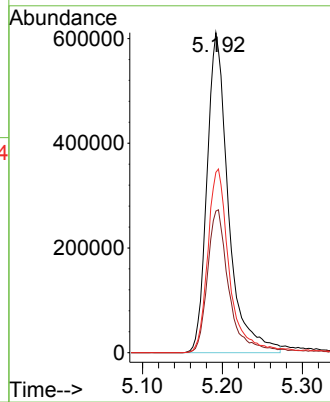
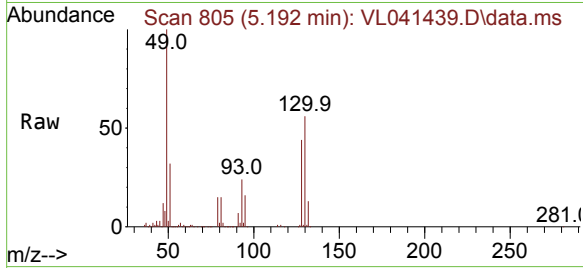




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

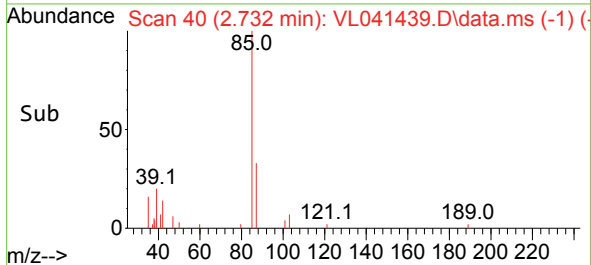
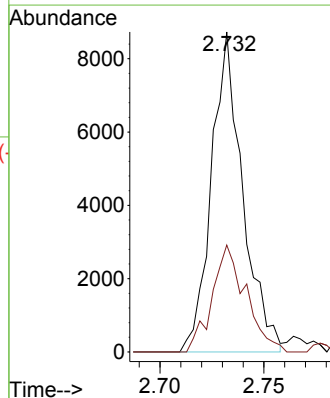
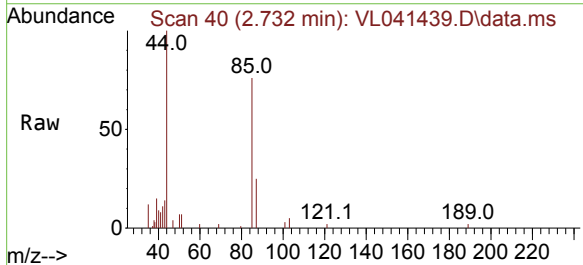
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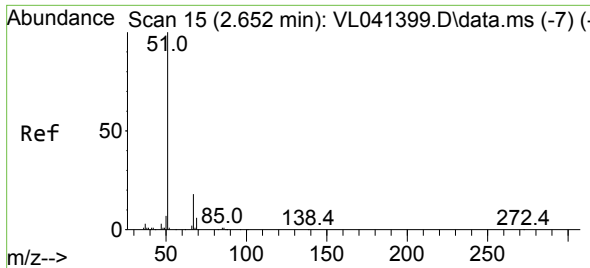
Tgt Ion: 49 Resp: 1141037
Ion Ratio Lower Upper
49 100
128 46.3 23.8 71.4
130 59.5 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.023 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 85 Resp: 9102
Ion Ratio Lower Upper
85 100
87 33.4 26.0 39.0

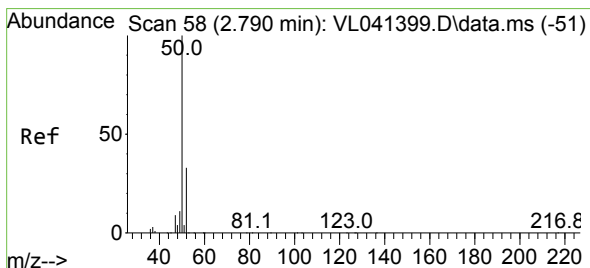
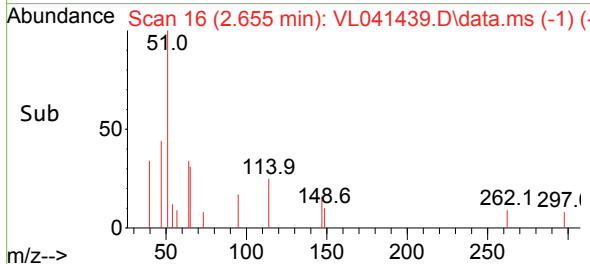
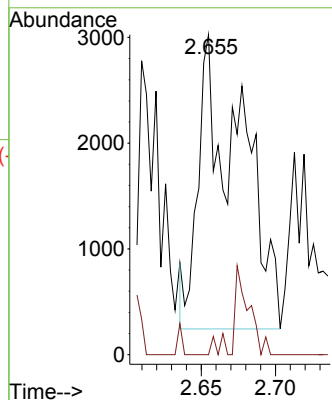
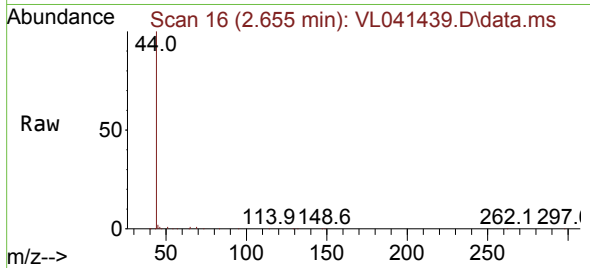




#3
Chlorodifluoromethane
Concen: 0.040 ppbv
RT: 2.655 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

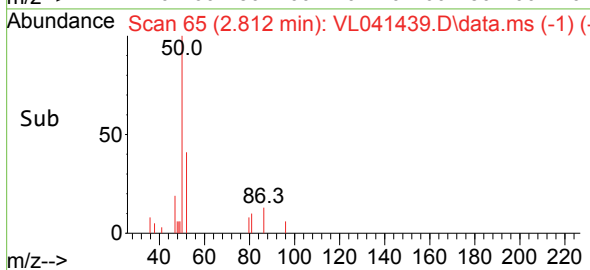
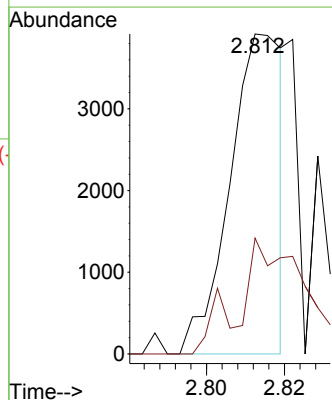
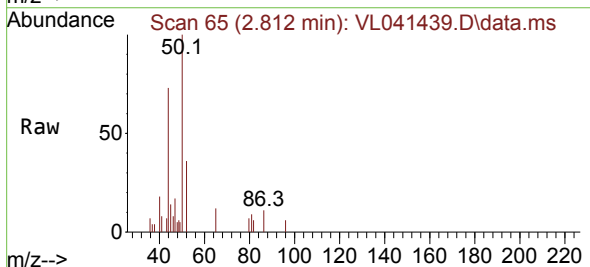
Instrument :
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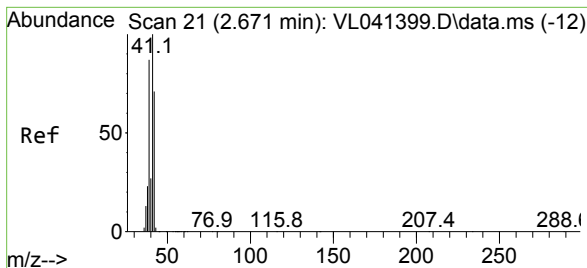
Tgt Ion: 51 Resp: 5468
Ion Ratio Lower Upper
51 100
67 1.0 14.5 21.7#



#4
Chloromethane
Concen: 0.051 ppbv
RT: 2.812 min Scan# 65
Delta R.T. 0.019 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 50 Resp: 3653
Ion Ratio Lower Upper
50 100
52 36.2 26.1 39.1





#9

Propene

Concen: 5.526 ppbv

RT: 2.874 min Scan# 84

Delta R.T. 0.203 min

Lab File: VL041439.D

Acq: 29 Jul 2024 21:47

Instrument :

MSVOA_L

ClientSampleId :

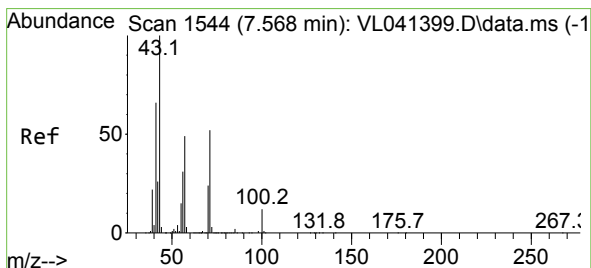
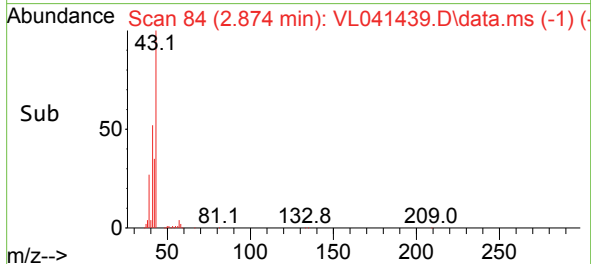
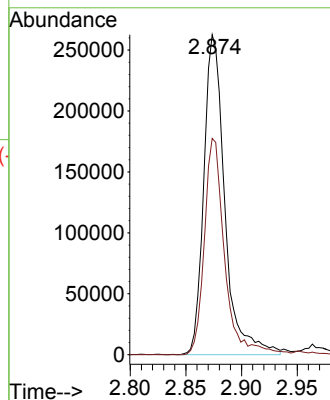
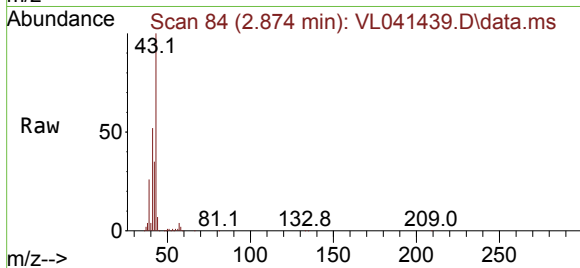
ACVI-IA-02DL

Tgt Ion: 41 Resp: 344851

Ion Ratio Lower Upper

41 100

42 65.2 55.9 83.9



#10

Heptane

Concen: 0.170 ppbv

RT: 7.578 min Scan# 1547

Delta R.T. 0.006 min

Lab File: VL041439.D

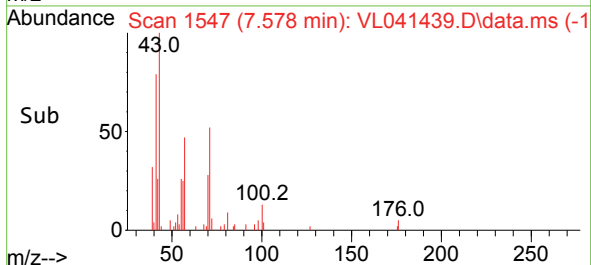
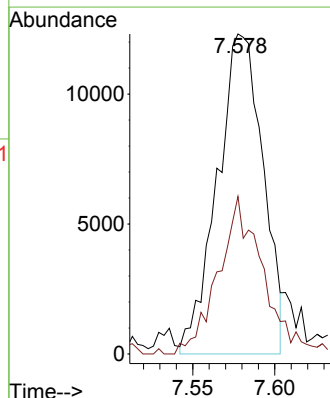
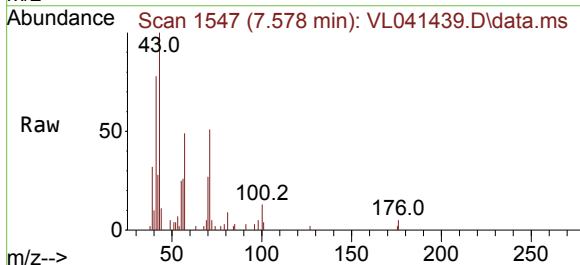
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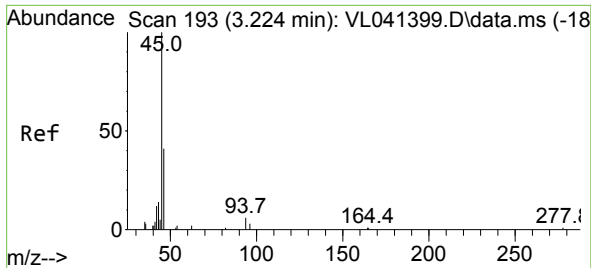
Tgt Ion: 43 Resp: 23867

Ion Ratio Lower Upper

43 100

57 49.2 40.5 60.7

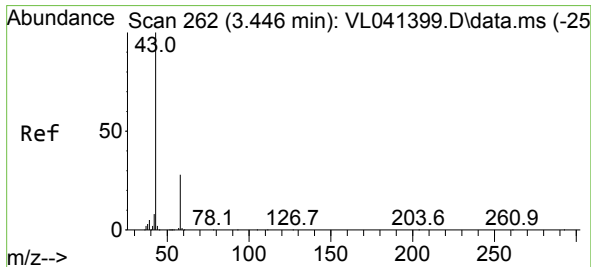
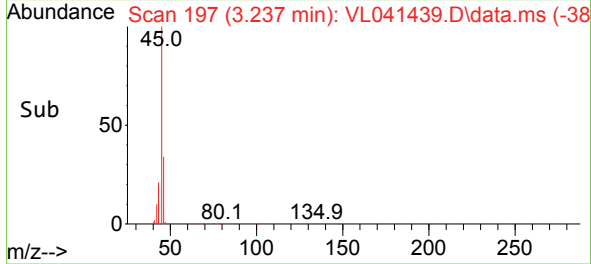
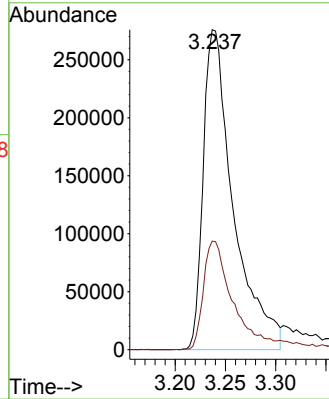
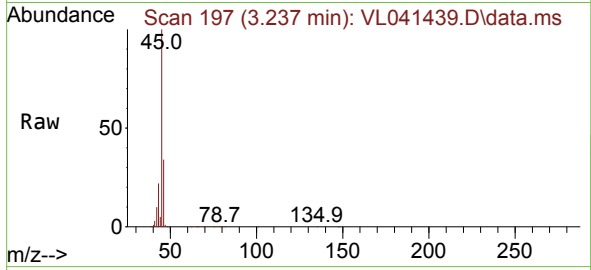




#13
Ethanol
Concen: 103.194 ppbv
RT: 3.237 min Scan# 197
Delta R.T. 0.010 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

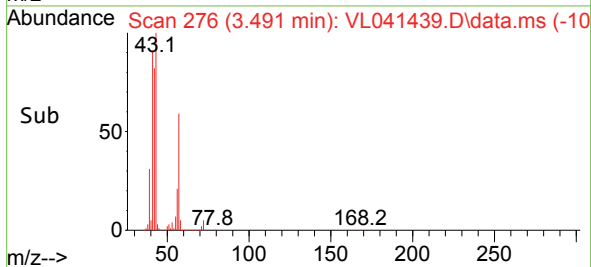
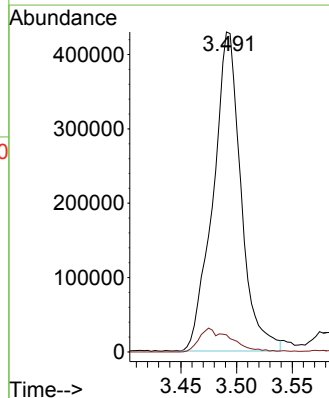
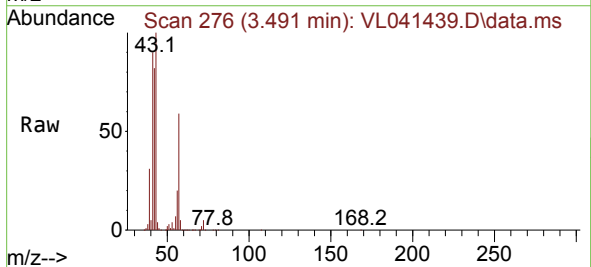
Instrument :
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ACVI-IA-02DL

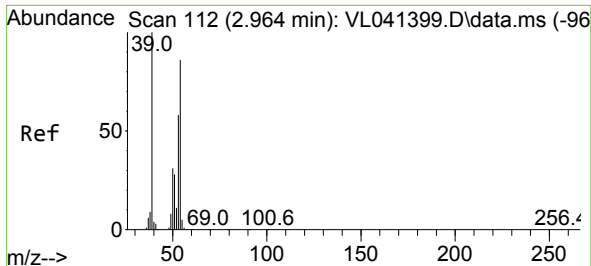
Tgt Ion: 45 Resp: 575530
Ion Ratio Lower Upper
45 100
46 36.0 13.4 53.4



#15
Acetone
Concen: 5.772 ppbv
RT: 3.491 min Scan# 276
Delta R.T. 0.039 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 43 Resp: 748291
Ion Ratio Lower Upper
43 100
58 8.6 21.4 32.2#

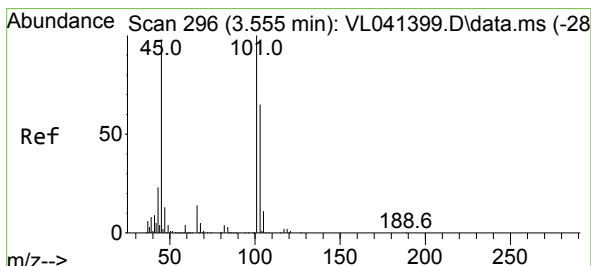
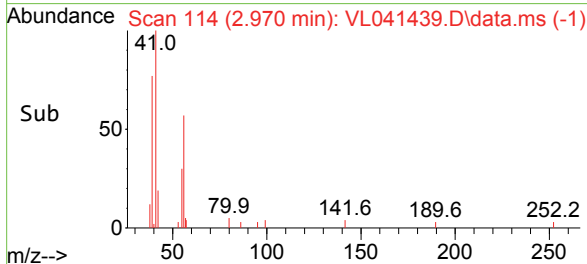
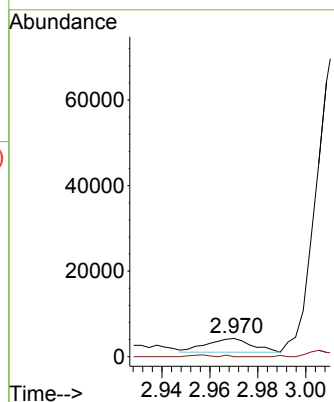
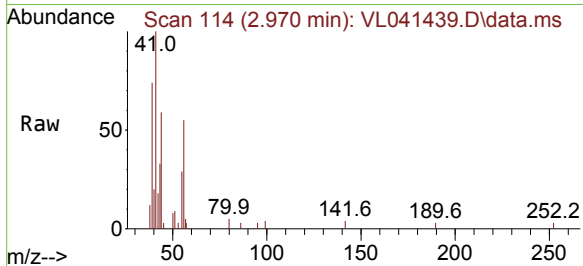




#16
1,3-Butadiene
Concen: 0.061 ppbv
RT: 2.970 min Scan# 112
Delta R.T. 0.003 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

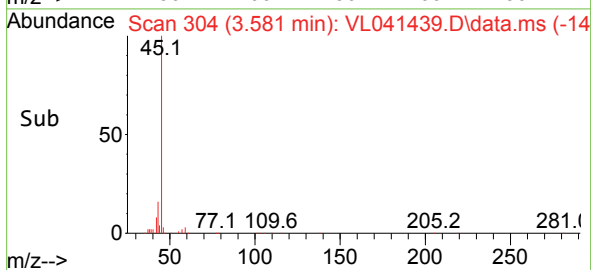
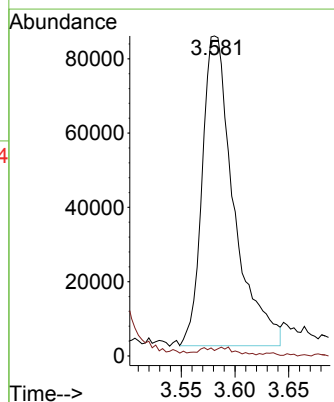
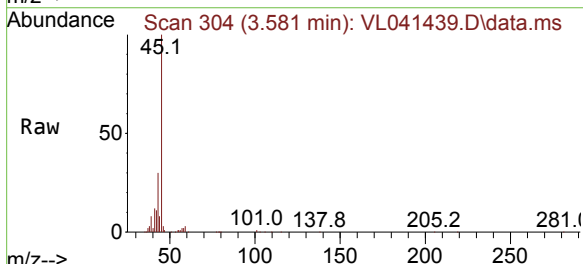
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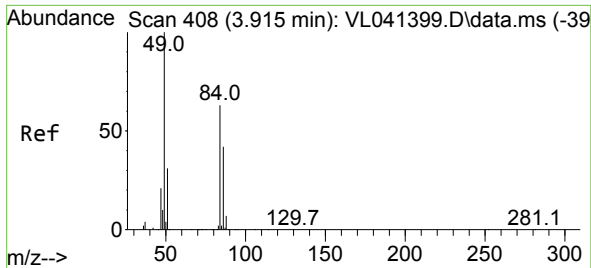
Tgt Ion: 39 Resp: 4240
Ion Ratio Lower Upper
39 100
54 6.6 62.5 93.7#



#19
Isopropyl Alcohol
Concen: 2.252 ppbv
RT: 3.581 min Scan# 304
Delta R.T. 0.019 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 45 Resp: 170688
Ion Ratio Lower Upper
45 100
58 2.9 1.9 2.9

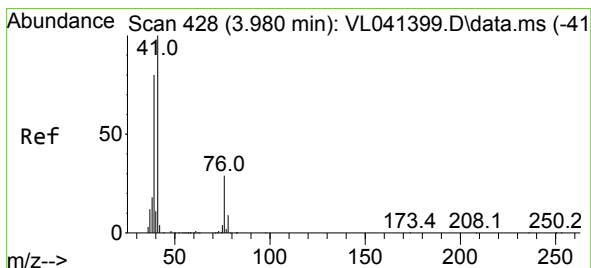
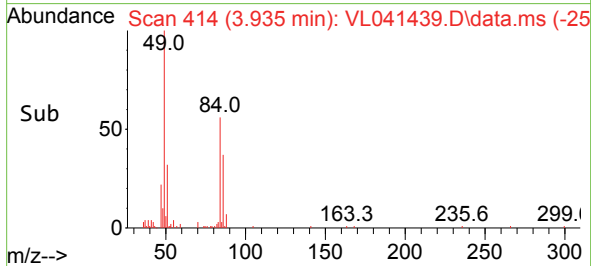
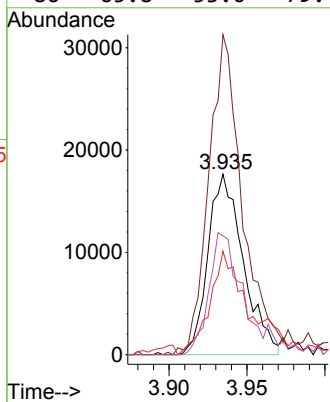
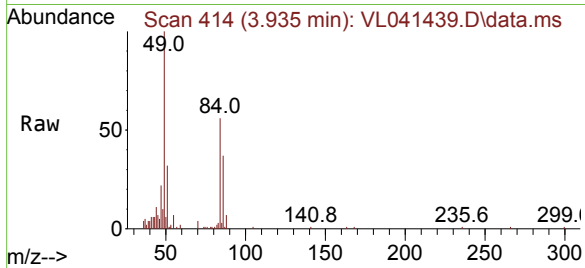




#20
Methylene Chloride
Concen: 0.576 ppbv
RT: 3.935 min Scan# 414
Delta R.T. 0.016 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

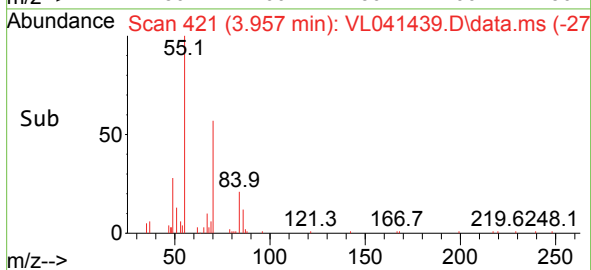
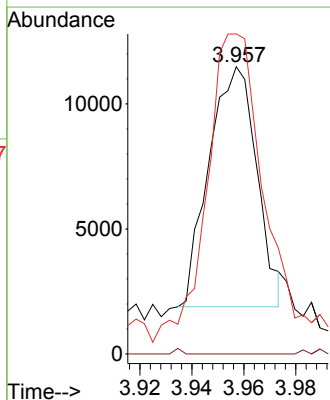
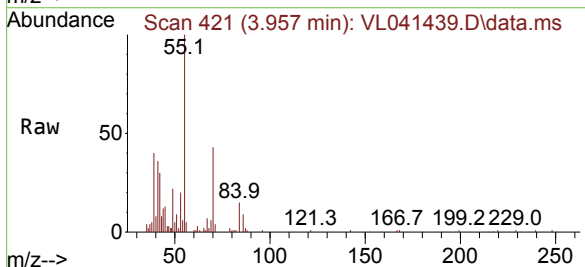
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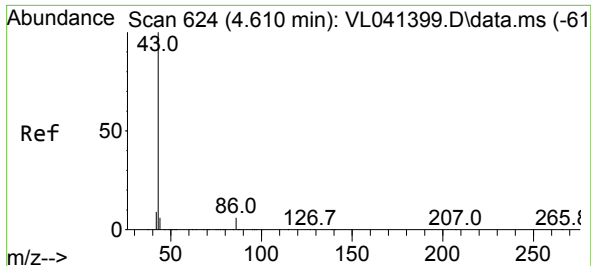
Tgt Ion: 84	Resp: 27824
Ion Ratio	Lower Upper
84 100	
49 173.5	126.6 190.0
51 57.3	38.6 58.0
86 65.8	53.0 79.4



#21
Allyl Chloride
Concen: 0.144 ppbv
RT: 3.957 min Scan# 421
Delta R.T. -0.022 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 41	Resp: 12250
Ion Ratio	Lower Upper
41 100	
76 0.0	23.7 35.5#
39 189.1	64.3 96.5#

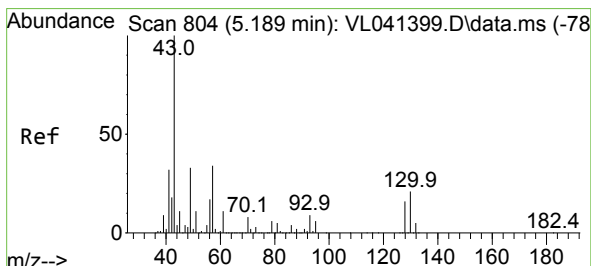
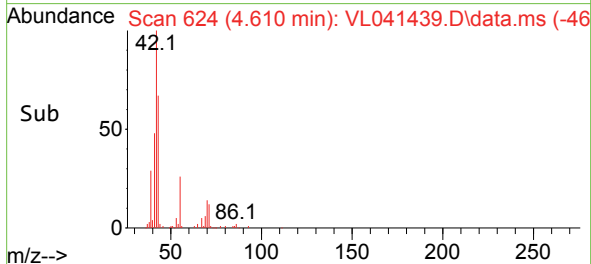
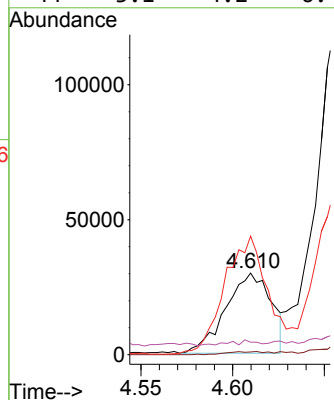
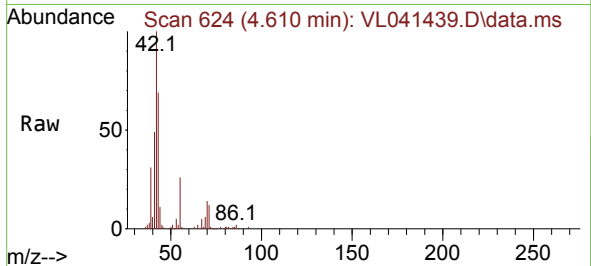




#23
 Vinyl Acetate
 Concen: 0.519 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. -0.003 min
 Lab File: VL041439.D
 Acq: 29 Jul 2024 21:47

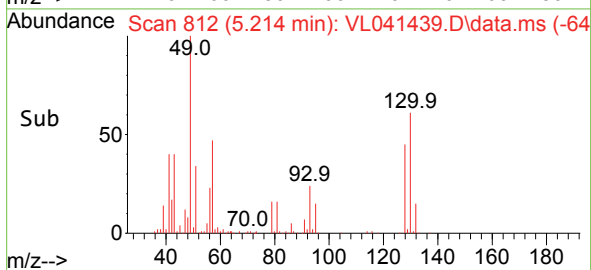
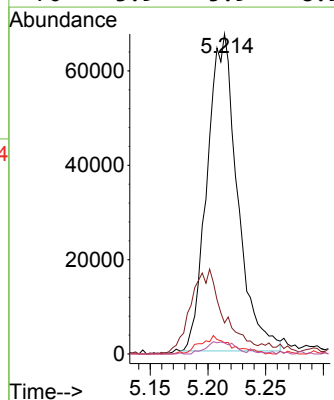
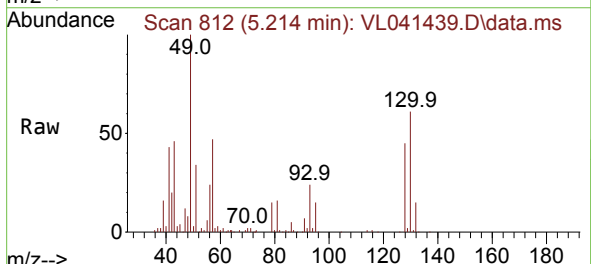
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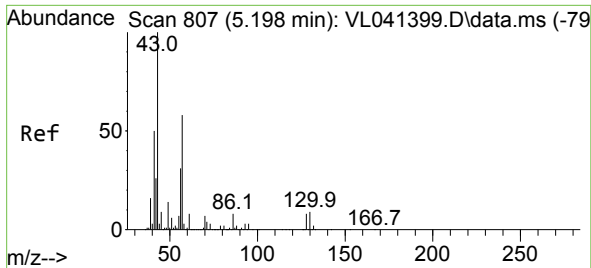
Tgt Ion:	43	Resp:	51362
Ion	Ratio	Lower	Upper
43	100		
86	3.3	4.6	6.8#
42	145.9	7.9	11.9#
44	3.1	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 0.475 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.023 min
 Lab File: VL041439.D
 Acq: 29 Jul 2024 21:47

Tgt Ion:	43	Resp:	122398
Ion	Ratio	Lower	Upper
43	100		
45	33.6	8.5	12.7#
61	5.9	8.0	12.0#
70	3.9	5.9	8.9#

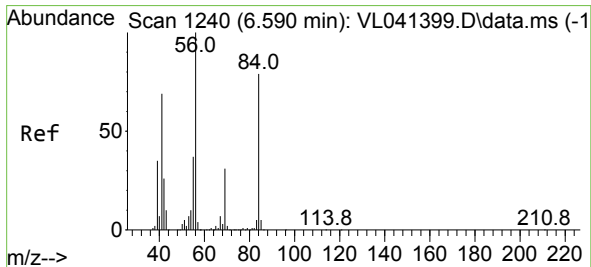
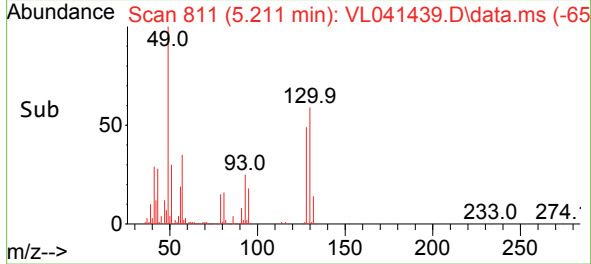
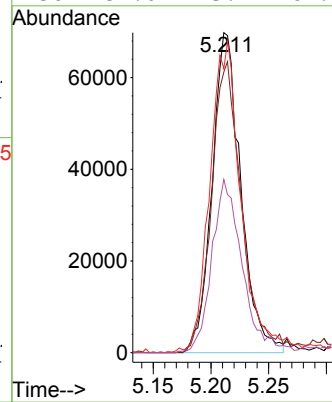
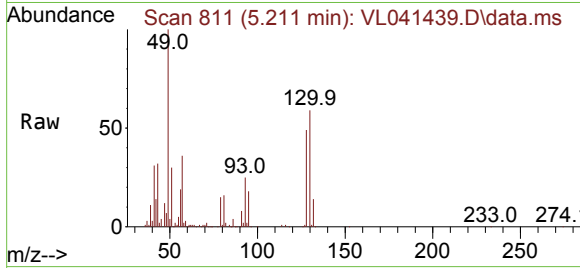




#26
Hexane
Concen: 1.137 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

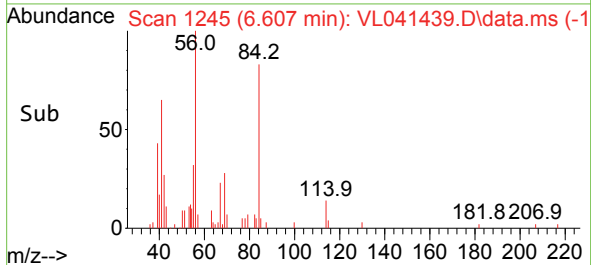
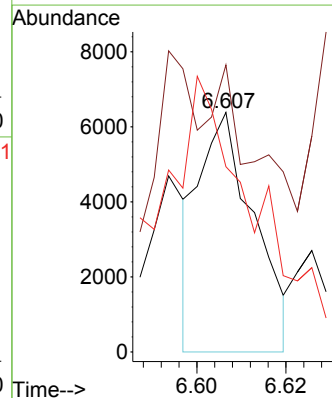
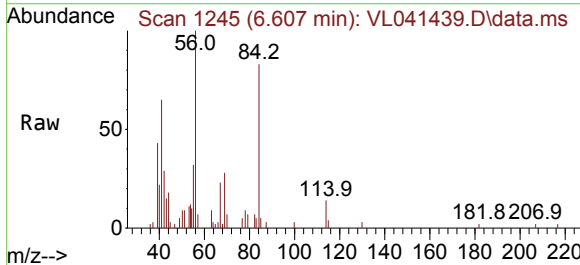
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-02DL

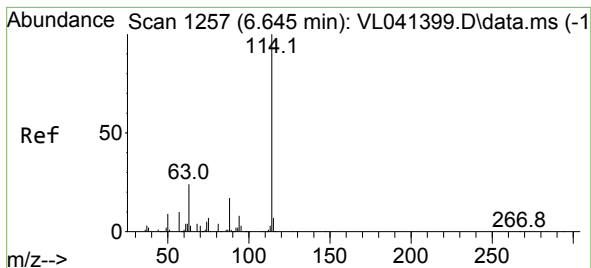
Tgt Ion: 57 Resp: 121507
Ion Ratio Lower Upper
57 100
41 96.4 74.0 111.0
43 108.2 193.6 290.4#
56 59.0 43.1 64.7



#30
Cyclohexane
Concen: 0.063 ppbv
RT: 6.607 min Scan# 1245
Delta R.T. 0.013 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 84 Resp: 5438
Ion Ratio Lower Upper
84 100
56 0.0 111.2 166.8#
41 247.8 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL041439.D

Acq: 29 Jul 2024 21:47

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-02DL

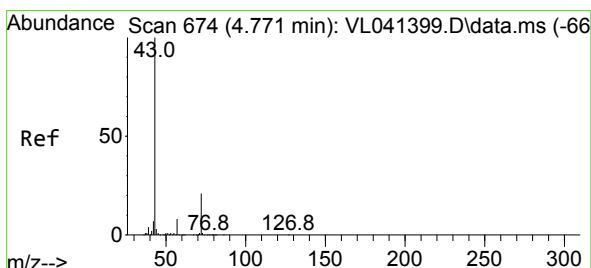
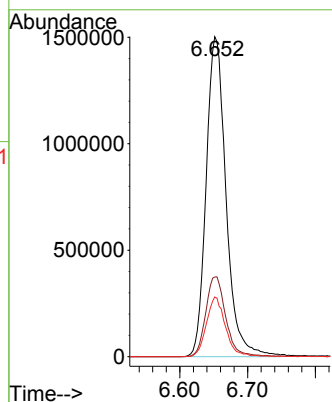
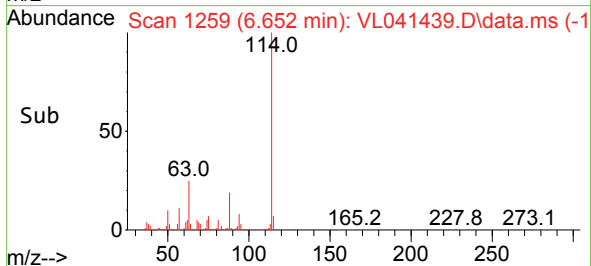
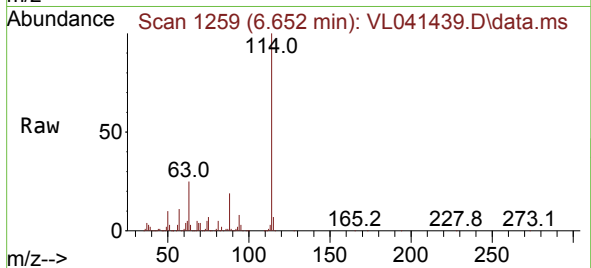
Tgt Ion:114 Resp: 3063699

Ion Ratio Lower Upper

114 100

63 25.5 20.3 30.5

88 18.0 14.3 21.5



#34

2-Butanone

Concen: 0.076 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.016 min

Lab File: VL041439.D

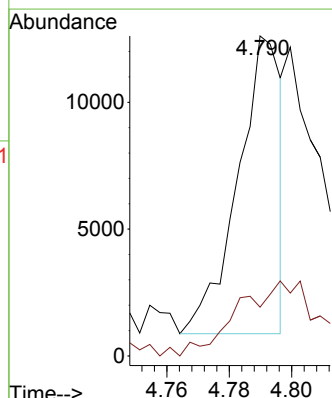
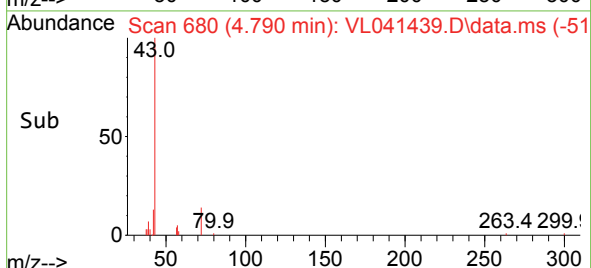
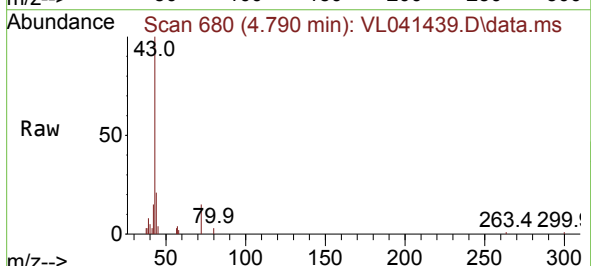
Acq: 29 Jul 2024 21:47

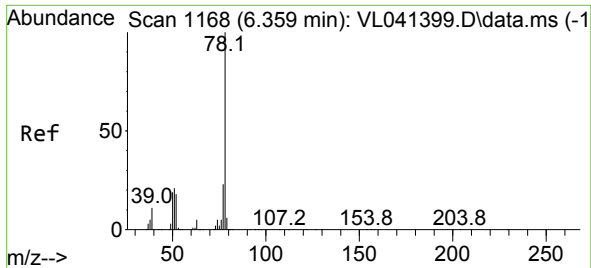
Tgt Ion: 43 Resp: 11236

Ion Ratio Lower Upper

43 100

72 0.0 17.3 25.9#

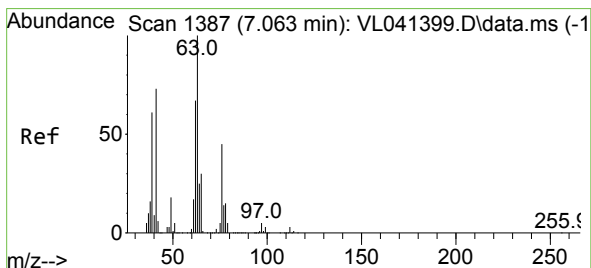
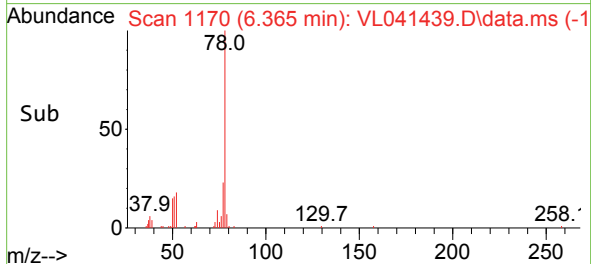
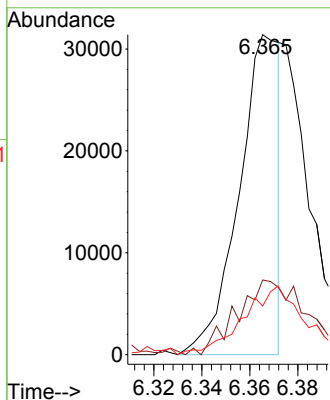
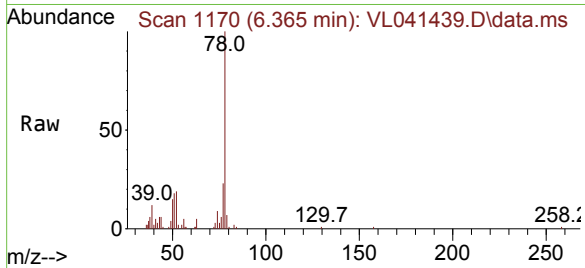




#36
Benzene
Concen: 0.164 ppbv
RT: 6.365 min Scan# 1168
Delta R.T. 0.006 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

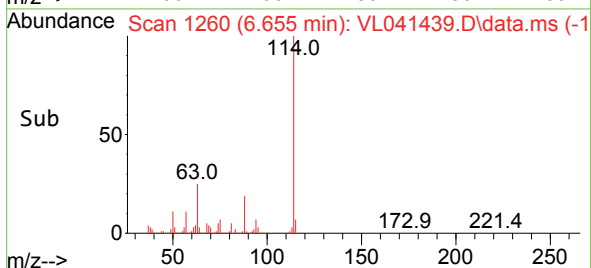
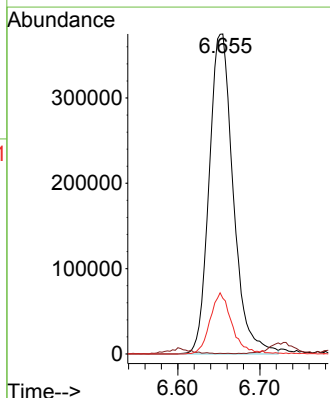
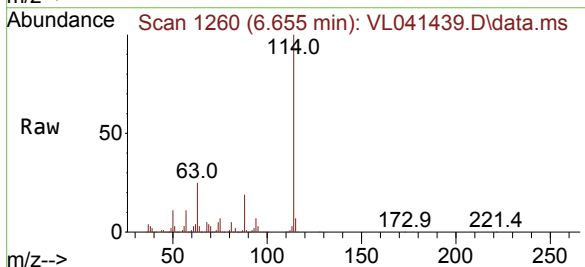
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-02DL

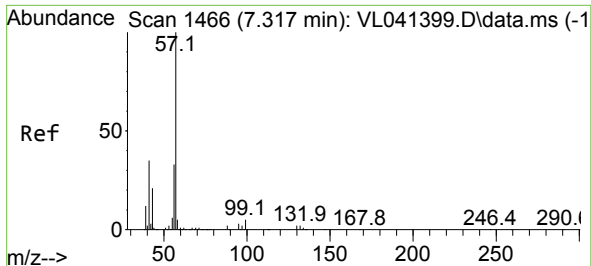
Tgt Ion: 78 Resp: 36644
Ion Ratio Lower Upper
78 100
77 22.3 18.1 27.1
50 15.2 15.5 23.3#



#39
1,2-Dichloropropane
Concen: 8.942 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.408 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 63 Resp: 766421
Ion Ratio Lower Upper
63 100
41 0.0 58.3 87.5#
62 17.4 53.9 80.9#





#44

2,2,4-Trimethylpentane

Concen: 0.074 ppbv

RT: 7.320 min Scan# 1466

Delta R.T. 0.003 min

Lab File: VL041439.D

Acq: 29 Jul 2024 21:47

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-02DL

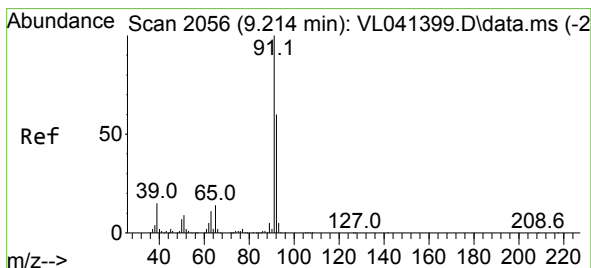
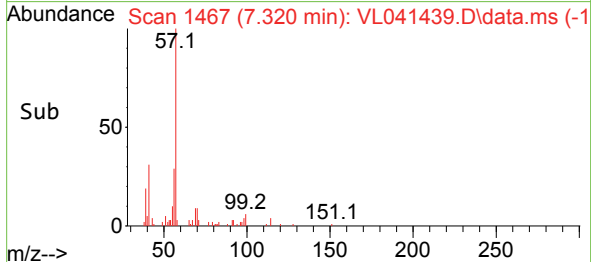
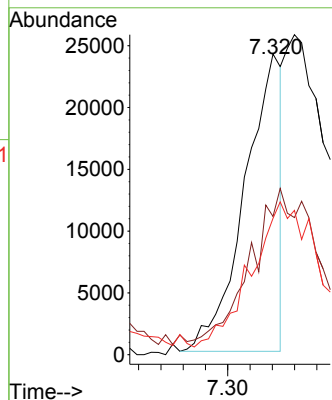
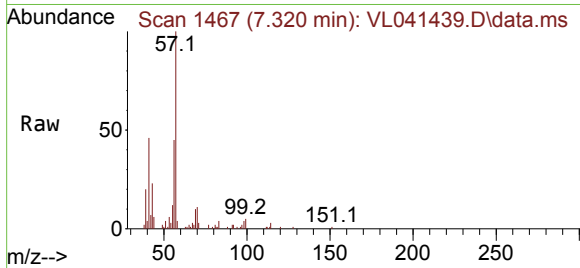
Tgt Ion: 57 Resp: 27760

Ion Ratio Lower Upper

57 100

41 117.0 27.0 40.6#

56 105.9 25.2 37.8#



#53

Toluene

Concen: 0.928 ppbv

RT: 9.221 min Scan# 2058

Delta R.T. 0.003 min

Lab File: VL041439.D

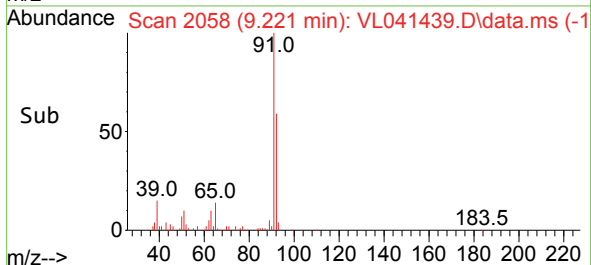
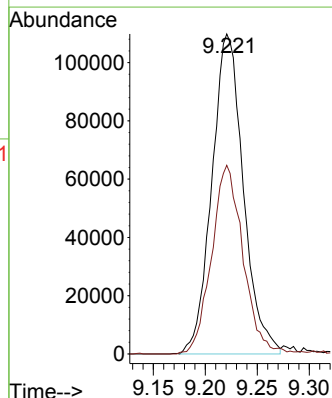
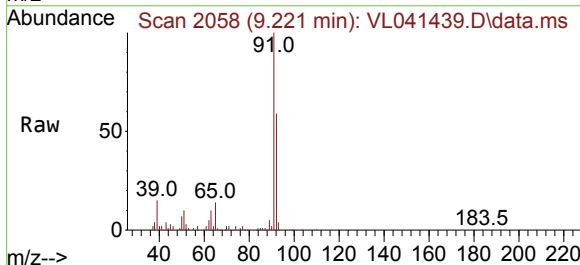
Acq: 29 Jul 2024 21:47

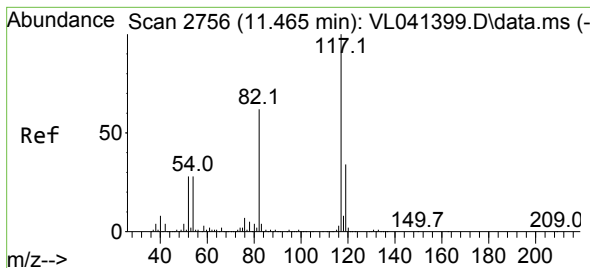
Tgt Ion: 91 Resp: 231283

Ion Ratio Lower Upper

91 100

92 59.0 48.7 73.1

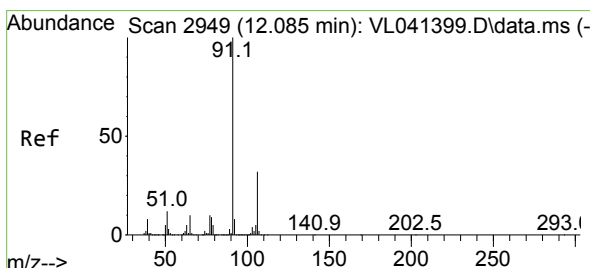
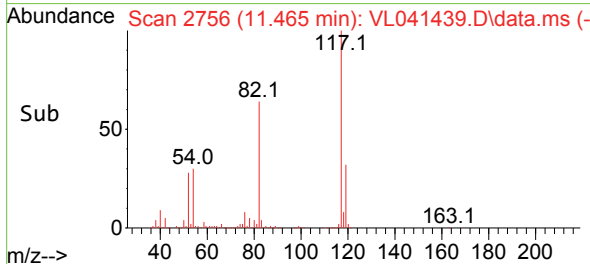
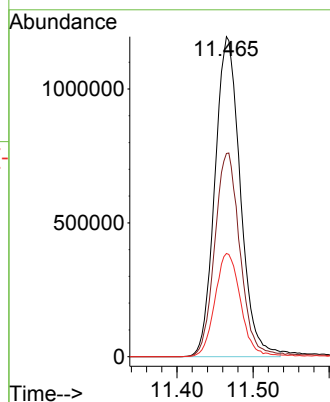
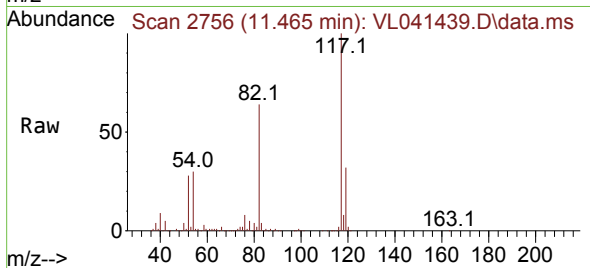




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

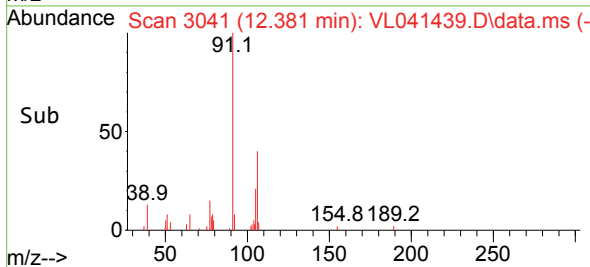
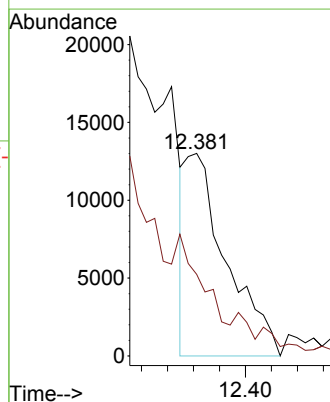
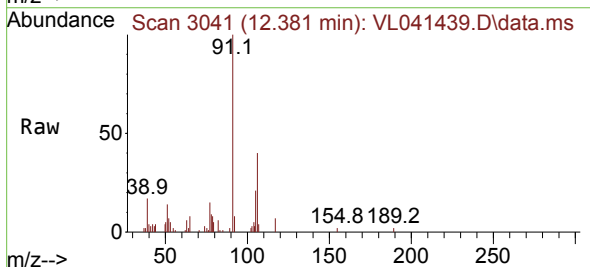
Instrument :
MSVOA_L
ClientSampleId :
ACVI-IA-02DL

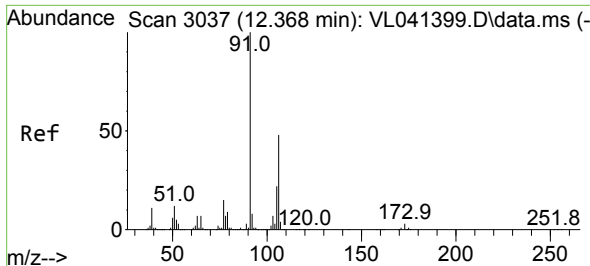
Tgt Ion:117 Resp: 2772990
Ion Ratio Lower Upper
117 100
82 64.7 51.0 76.6
119 33.0 45.2 67.8#



#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 12.381 min Scan# 3041
Delta R.T. 0.296 min
Lab File: VL041439.D
Acq: 29 Jul 2024 21:47

Tgt Ion: 91 Resp: 14157
Ion Ratio Lower Upper
91 100
106 35.6 25.8 38.8





#59

m/p-Xylene

Concen: 0.031 ppbv

RT: 12.372 min Scan# 3038

Delta R.T. 0.003 min

Lab File: VL041439.D

Acq: 29 Jul 2024 21:47

Instrument :

MSVOA_L

ClientSampleId :

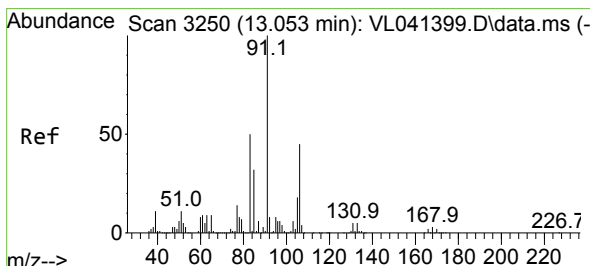
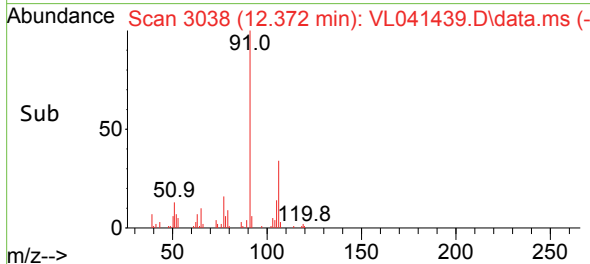
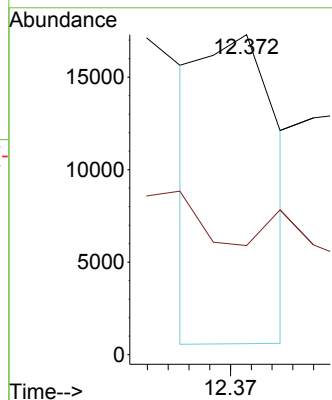
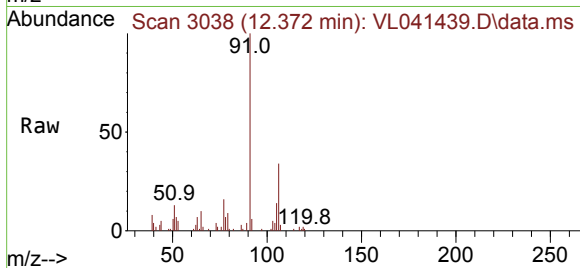
ACVI-IA-02DL

Tgt Ion: 91 Resp: 8460

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#



#60

o-Xylene

Concen: 0.077 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.003 min

Lab File: VL041439.D

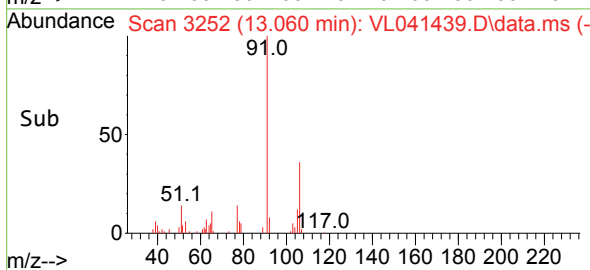
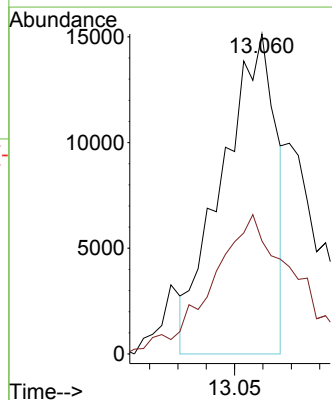
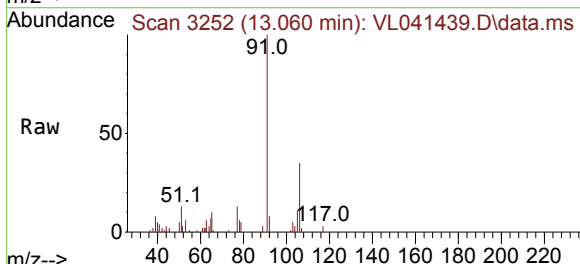
Acq: 29 Jul 2024 21:47

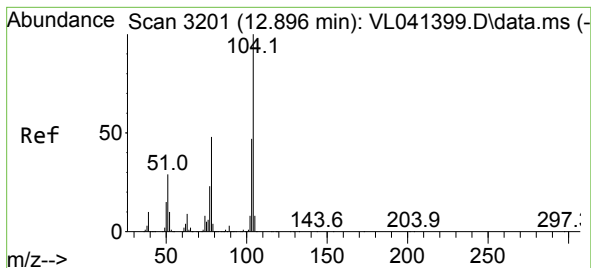
Tgt Ion: 91 Resp: 19980

Ion Ratio Lower Upper

91 100

106 70.9 23.1 69.3#





#61

Styrene

Concen: 0.138 ppbv

RT: 12.896 min Scan# 3201

Delta R.T. 0.000 min

Lab File: VL041439.D

Acq: 29 Jul 2024 21:47

Instrument :

MSVOA_L

ClientSampleId :

ACVI-IA-02DL

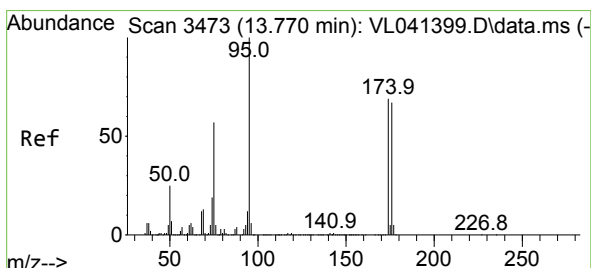
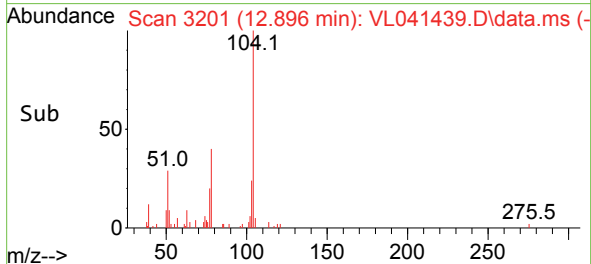
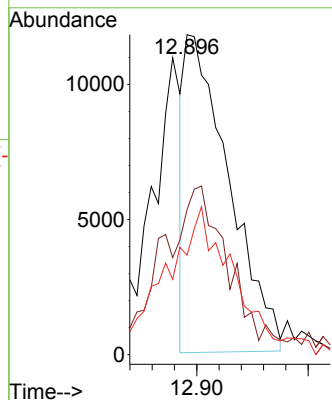
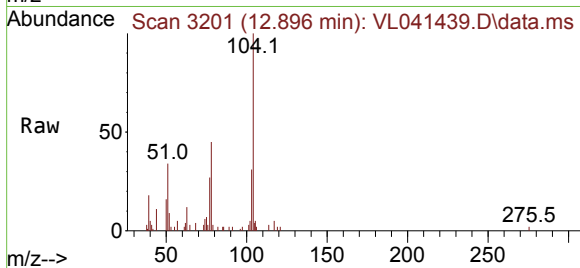
Tgt Ion:104 Resp: 16212

Ion Ratio Lower Upper

104 100

78 88.2 40.8 61.2#

103 72.4 38.2 57.4#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.216 ppbv

RT: 13.777 min Scan# 3475

Delta R.T. 0.003 min

Lab File: VL041439.D

Acq: 29 Jul 2024 21:47

Tgt Ion: 95 Resp: 2180047

Ion Ratio Lower Upper

95 100

174 70.8 56.3 84.5

175 5.1 4.0 6.0

