

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL072924\
 Data File : VL041426.D
 Acq On : 29 Jul 2024 12:54
 Operator : SY/MD
 Sample : P3342-01 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 ACVI-SS-01DL

Quant Time: Jul 30 02:48:44 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)

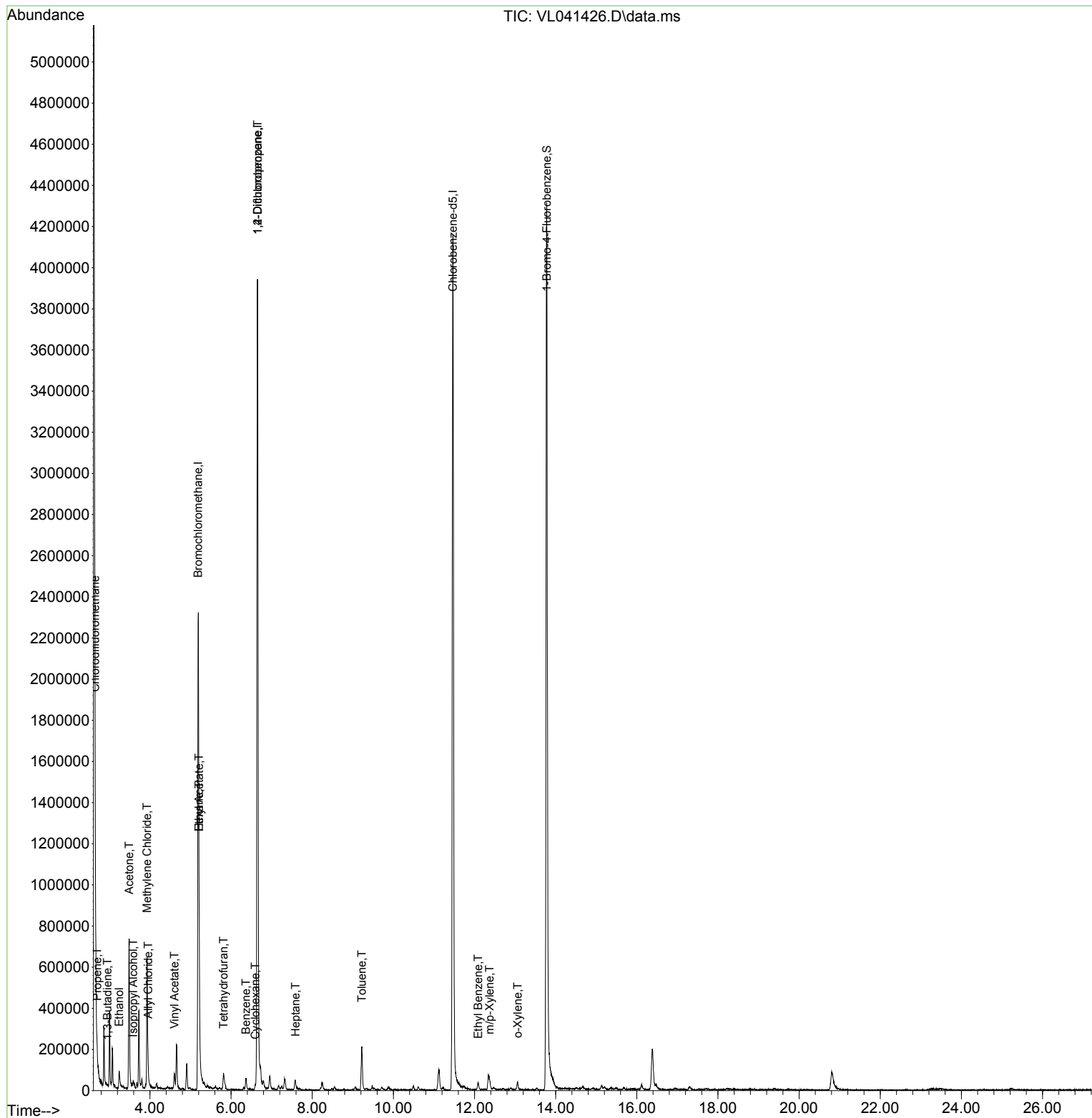
Internal Standards						
1) Bromochloromethane	5.189	49	1105403	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	3003971	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.468	117	2792283	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2147701	9.995	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.900%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.648	51	6711	0.051	ppbv #	59
9) Propene	2.700	41	10256	0.170	ppbv	100
10) Heptane	7.587	43	5354	0.039	ppbv #	27
13) Ethanol	3.243	45	86217	15.957	ppbv	83
15) Acetone	3.488	43	298771	2.379	ppbv #	70
16) 1,3-Butadiene	2.954	39	3871	0.058	ppbv #	10
19) Isopropyl Alcohol	3.591	45	33246	0.453	ppbv #	81
20) Methylene Chloride	3.931	84	194058	4.143	ppbv	97
21) Allyl Chloride	3.957	41	2880	0.035	ppbv #	1
23) Vinyl Acetate	4.603	43	22436	0.234	ppbv #	1
25) Ethyl Acetate	5.211	43	131564	0.527	ppbv #	80
26) Hexane	5.211	57	167184	1.615	ppbv #	38
30) Cyclohexane	6.597	84	3755	0.045	ppbv #	49
36) Benzene	6.365	78	21424	0.098	ppbv	94
39) 1,2-Dichloropropane	6.652	63	741601	8.825	ppbv #	25
41) Tetrahydrofuran	5.812	42	4611	0.055	ppbv #	37
53) Toluene	9.224	91	161670	0.661	ppbv	99
58) Ethyl Benzene	12.089	91	18134	0.056	ppbv #	79
59) m/p-Xylene	12.368	91	8445	0.030	ppbv #	31
60) o-Xylene	13.063	91	12658	0.048	ppbv #	25

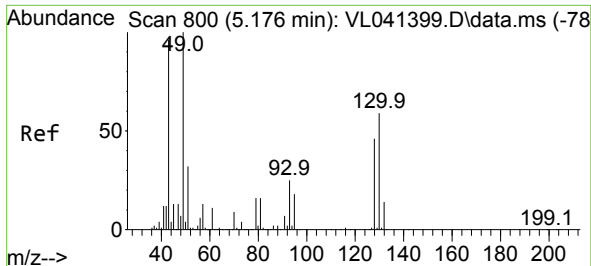
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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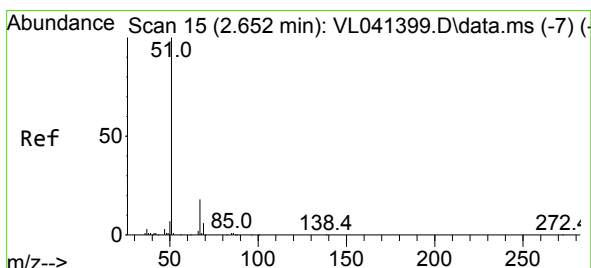
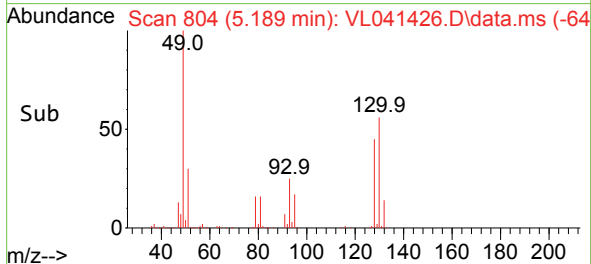
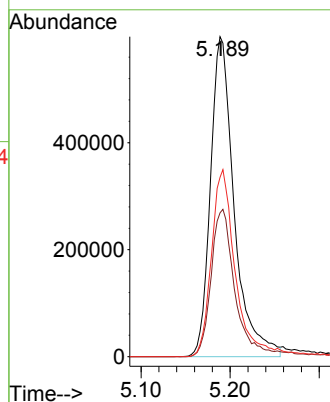
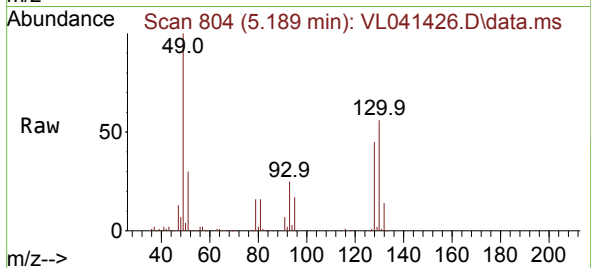




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.010 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

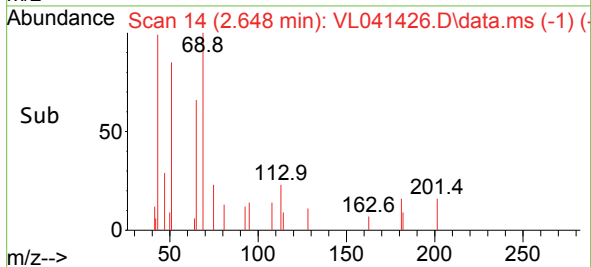
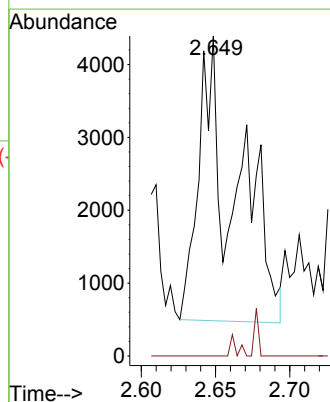
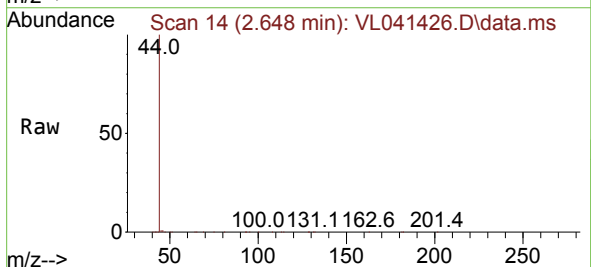
Instrument :
MSVOA_L
ClientSampleId :
ACVI-SS-01DL

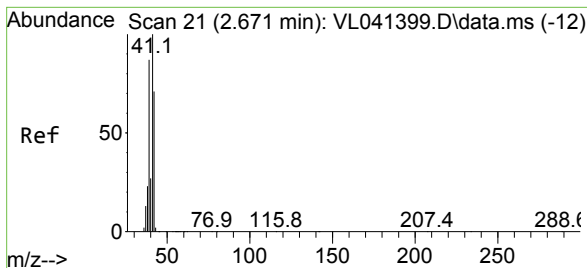
Tgt Ion: 49 Resp: 1105403
Ion Ratio Lower Upper
49 100
128 47.5 23.8 71.4
130 61.2 30.8 92.4



#3
Chlorodifluoromethane
Concen: 0.051 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.006 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 51 Resp: 6711
Ion Ratio Lower Upper
51 100
67 0.0 14.5 21.7#





#9

Propene

Concen: 0.170 ppbv

RT: 2.700 min Scan# 30

Delta R.T. 0.029 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

Instrument :

MSVOA_L

ClientSampleId :

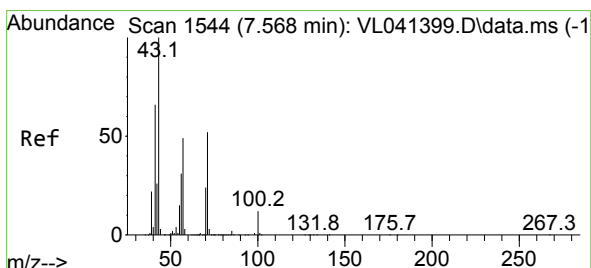
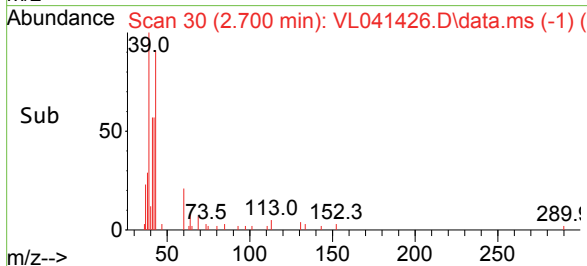
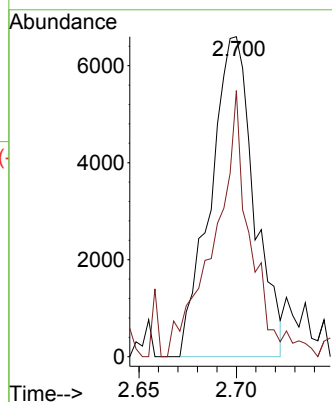
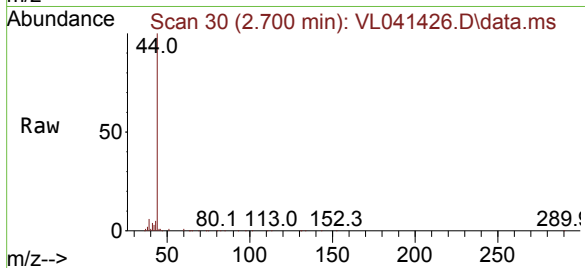
ACVI-SS-01DL

Tgt Ion: 41 Resp: 10256

Ion Ratio Lower Upper

41 100

42 69.6 55.9 83.9



#10

Heptane

Concen: 0.039 ppbv

RT: 7.587 min Scan# 1550

Delta R.T. 0.016 min

Lab File: VL041426.D

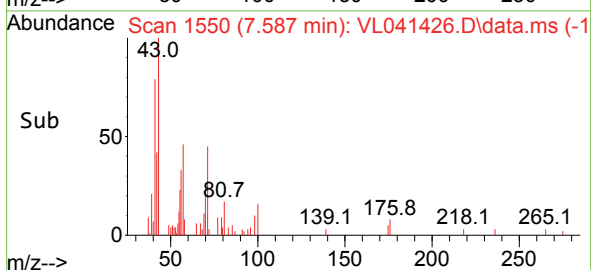
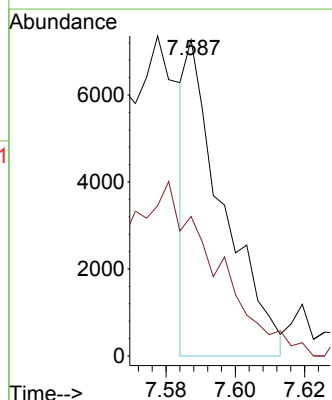
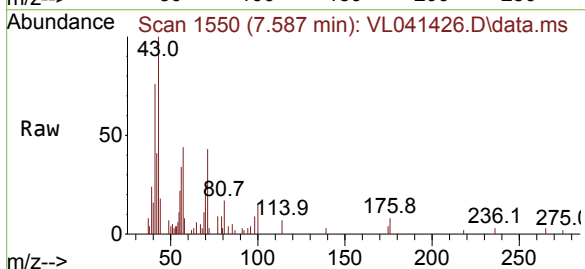
Acq: 29 Jul 2024 12:54

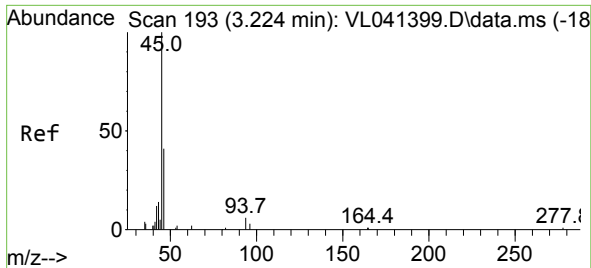
Tgt Ion: 43 Resp: 5354

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7

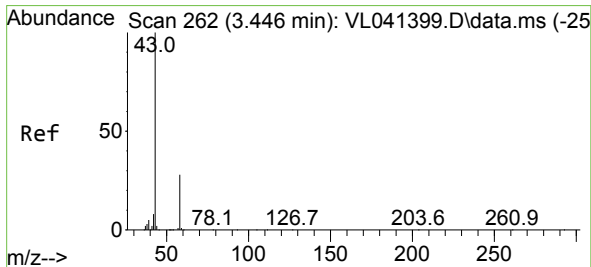
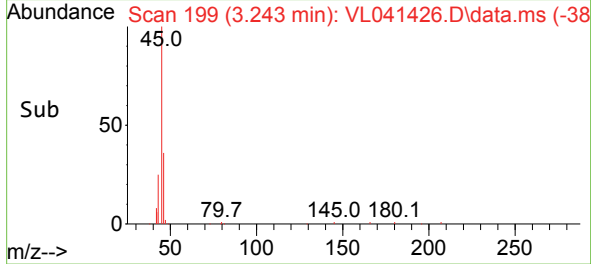
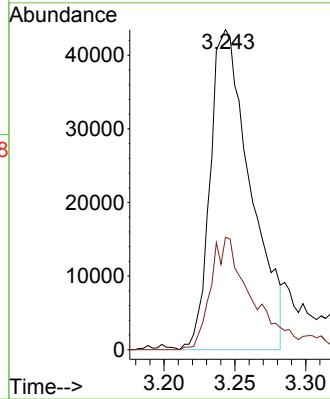
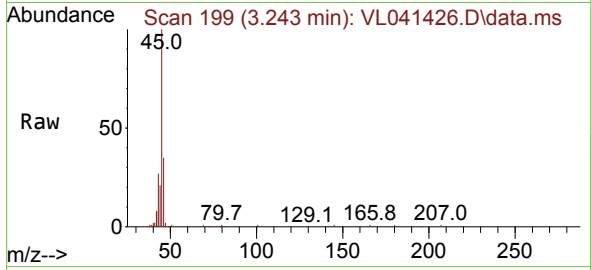




#13
Ethanol
Concen: 15.957 ppbv
RT: 3.243 min Scan# 193
Delta R.T. 0.016 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

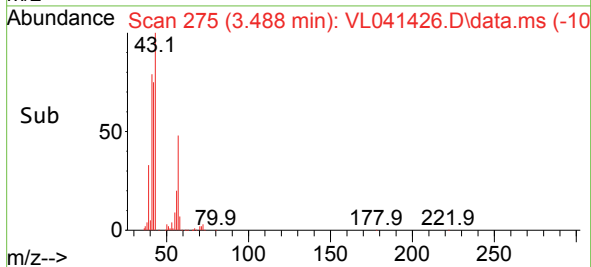
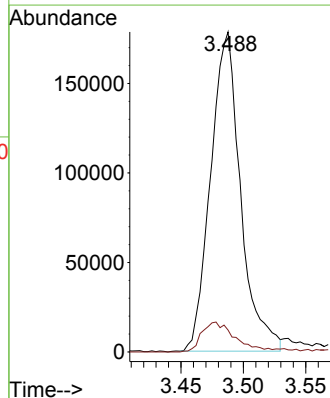
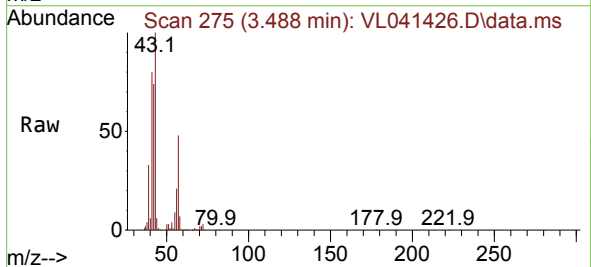
Instrument :
MSVOA_L
ClientSampleId :
ACVI-SS-01DL

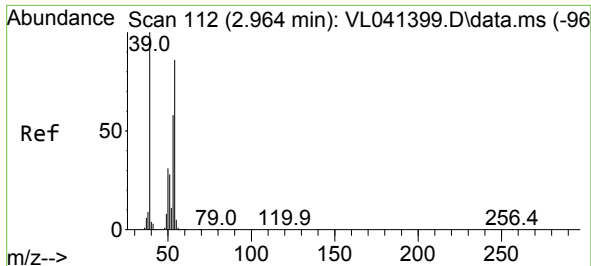
Tgt Ion: 45 Resp: 86217
Ion Ratio Lower Upper
45 100
46 43.2 13.4 53.4



#15
Acetone
Concen: 2.379 ppbv
RT: 3.488 min Scan# 275
Delta R.T. 0.035 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 43 Resp: 298771
Ion Ratio Lower Upper
43 100
58 11.3 21.4 32.2#

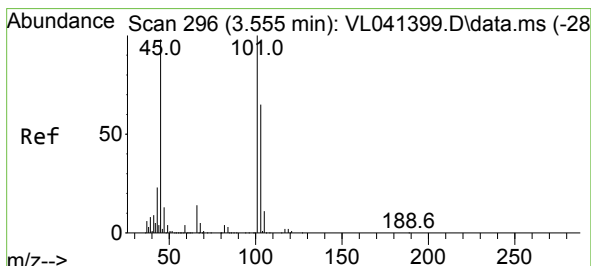
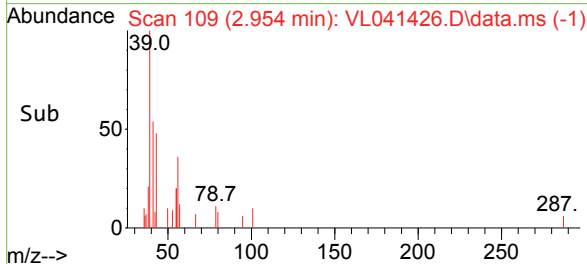
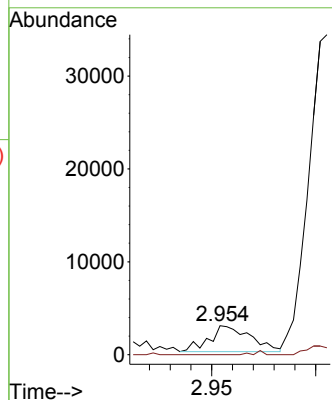
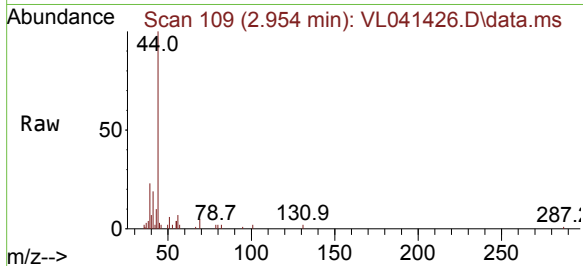




#16
1,3-Butadiene
Concen: 0.058 ppbv
RT: 2.954 min Scan# 109
Delta R.T. -0.013 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

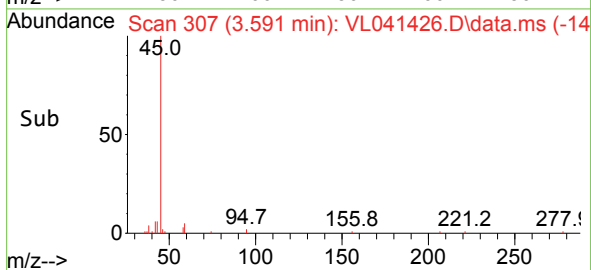
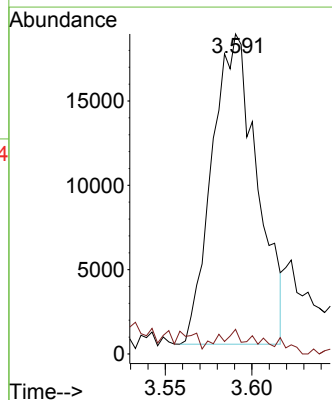
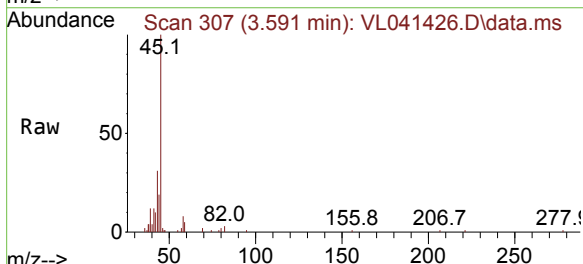
Instrument :
MSVOA_L
ClientSampleId :
ACVI-SS-01DL

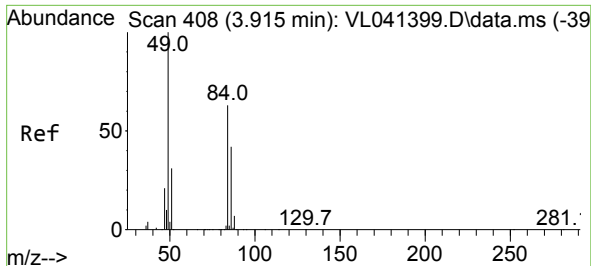
Tgt Ion: 39 Resp: 3871
Ion Ratio Lower Upper
39 100
54 0.0 62.5 93.7#



#19
Isopropyl Alcohol
Concen: 0.453 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.029 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 45 Resp: 33246
Ion Ratio Lower Upper
45 100
58 8.9 1.9 2.9#





#20

Methylene Chloride

Concen: 4.143 ppbv

RT: 3.931 min Scan# 413

Delta R.T. 0.013 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

Instrument :

MSVOA_L

ClientSampleId :

ACVI-SS-01DL

Tgt Ion: 84 Resp: 194058

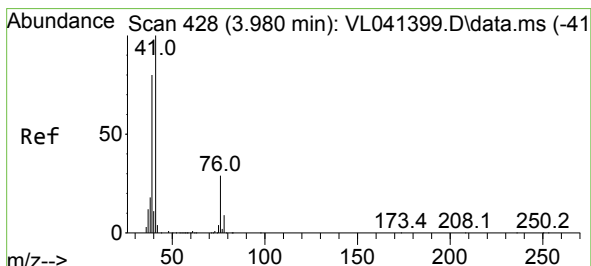
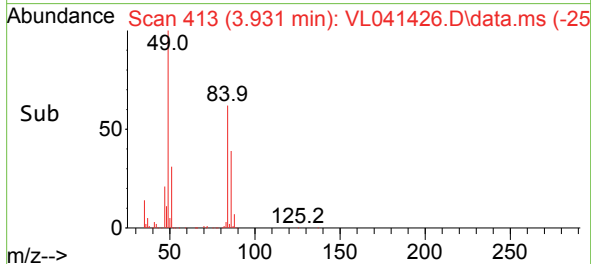
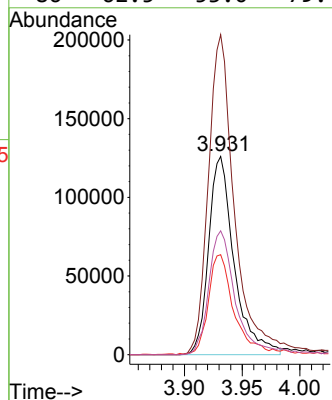
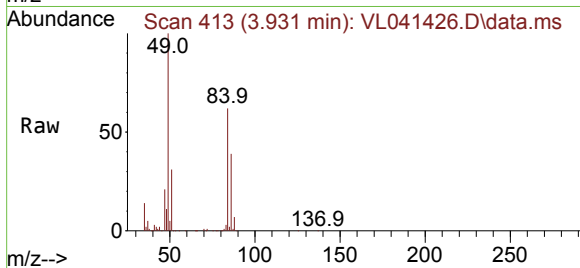
Ion Ratio Lower Upper

84 100

49 161.4 126.6 190.0

51 49.8 38.6 58.0

86 62.5 53.0 79.4



#21

Allyl Chloride

Concen: 0.035 ppbv

RT: 3.957 min Scan# 421

Delta R.T. -0.022 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

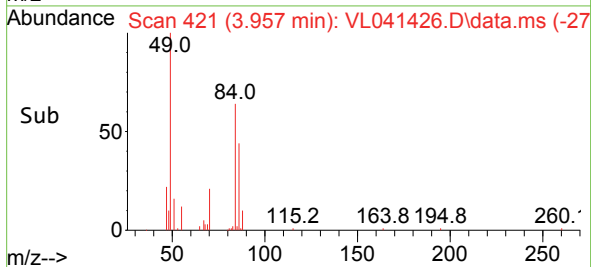
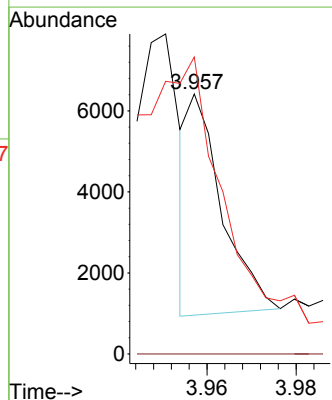
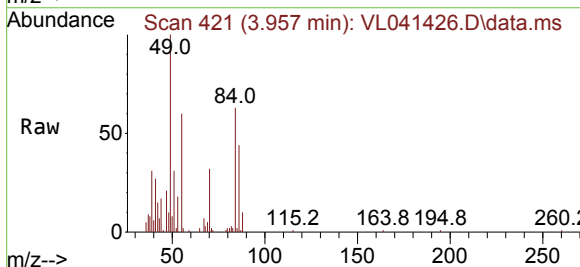
Tgt Ion: 41 Resp: 2880

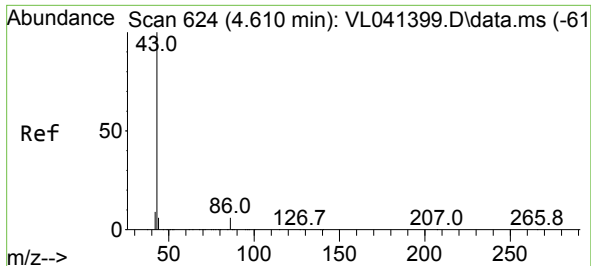
Ion Ratio Lower Upper

41 100

76 6.7 23.7 35.5#

39 417.3 64.3 96.5#

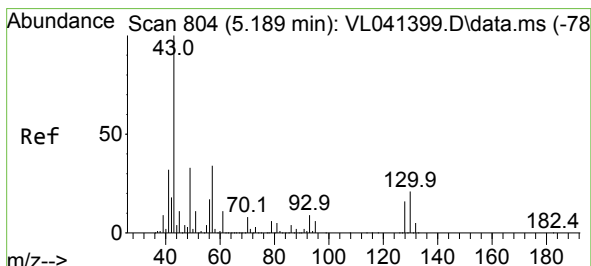
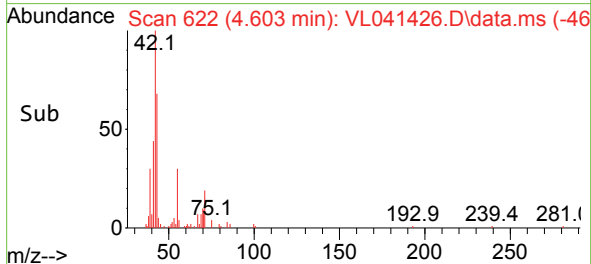
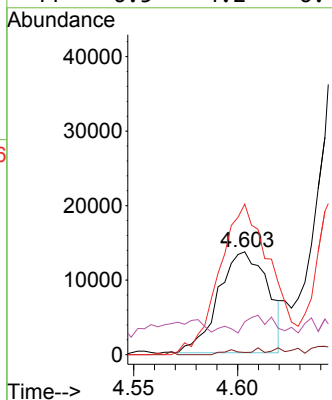
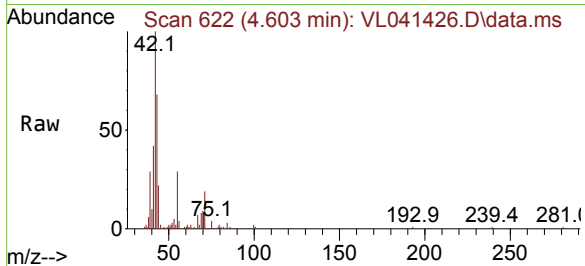




#23
Vinyl Acetate
Concen: 0.234 ppbv
RT: 4.603 min Scan# 61
Delta R.T. -0.010 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

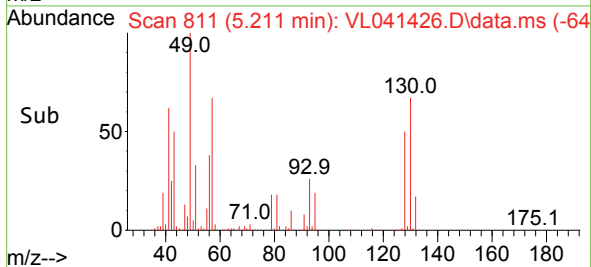
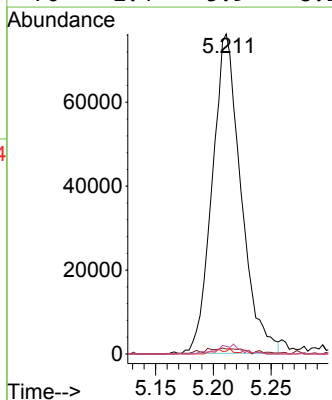
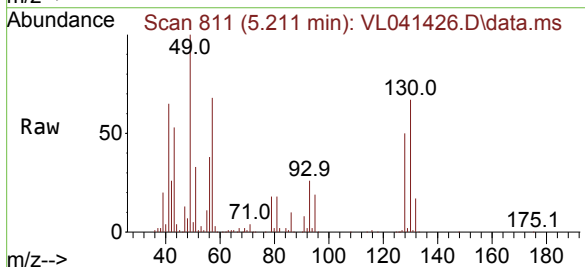
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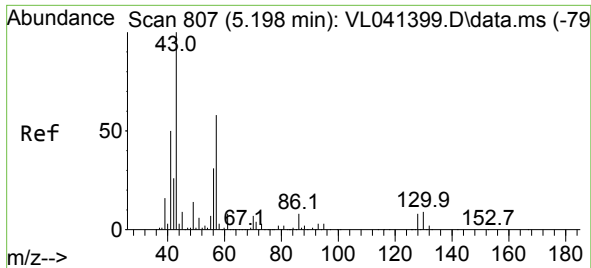
Tgt Ion:	43	Resp:	22436
Ion	Ratio	Lower	Upper
43	100		
86	2.2	4.6	6.8#
42	146.0	7.9	11.9#
44	6.5	4.2	6.4#



#25
Ethyl Acetate
Concen: 0.527 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.019 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion:	43	Resp:	131564
Ion	Ratio	Lower	Upper
43	100		
45	3.1	8.5	12.7#
61	1.3	8.0	12.0#
70	2.4	5.9	8.9#

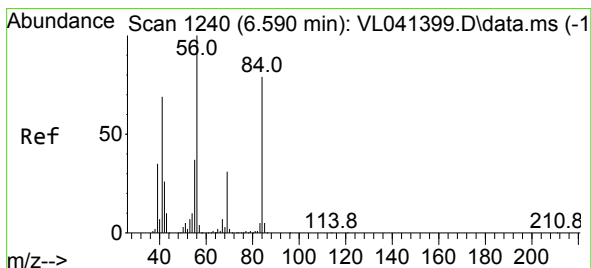
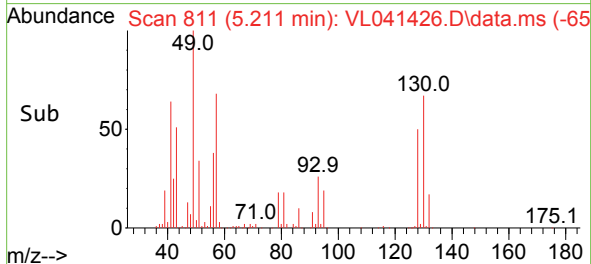
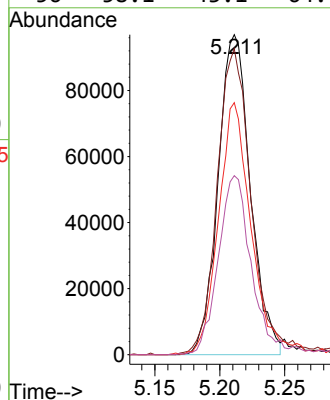
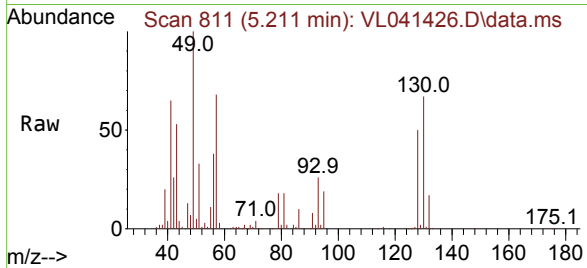




#26
Hexane
Concen: 1.615 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

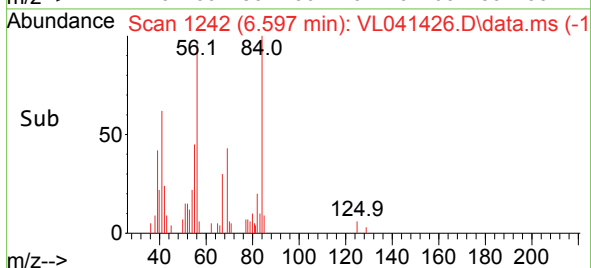
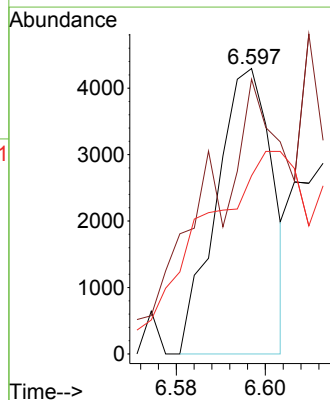
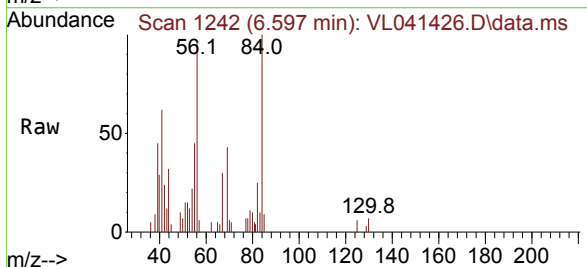
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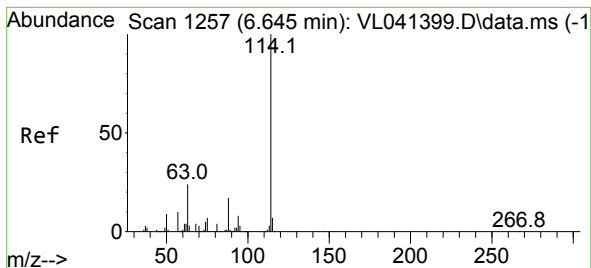
Tgt Ion: 57 Resp: 167184
Ion Ratio Lower Upper
57 100
41 103.1 74.0 111.0
43 80.6 193.6 290.4#
56 58.1 43.1 64.7



#30
Cyclohexane
Concen: 0.045 ppbv
RT: 6.597 min Scan# 1242
Delta R.T. 0.003 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 84 Resp: 3755
Ion Ratio Lower Upper
84 100
56 146.0 111.2 166.8
41 201.8 70.3 105.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.652 min Scan# 1170

Delta R.T. 0.006 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

Instrument :

MSVOA_L

ClientSampleId :

ACVI-SS-01DL

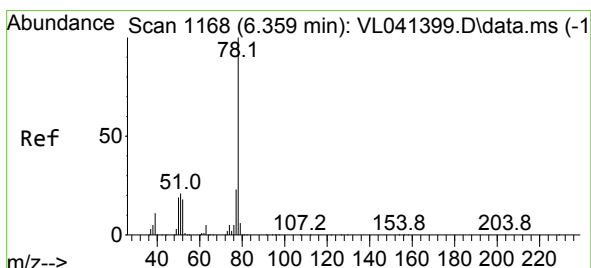
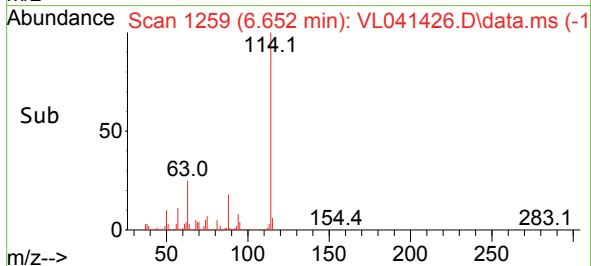
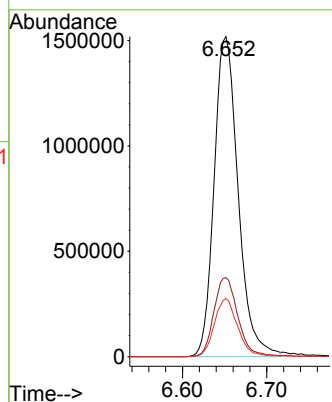
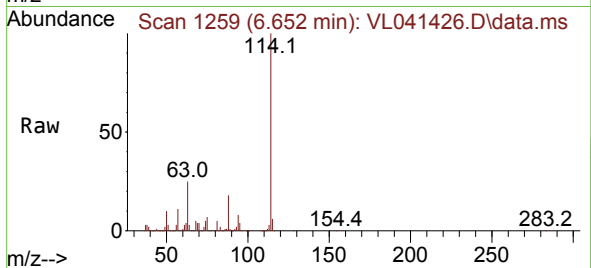
Tgt Ion:114 Resp: 3003971

Ion Ratio Lower Upper

114 100

63 25.1 20.3 30.5

88 17.9 14.3 21.5



#36

Benzene

Concen: 0.098 ppbv

RT: 6.365 min Scan# 1170

Delta R.T. 0.006 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

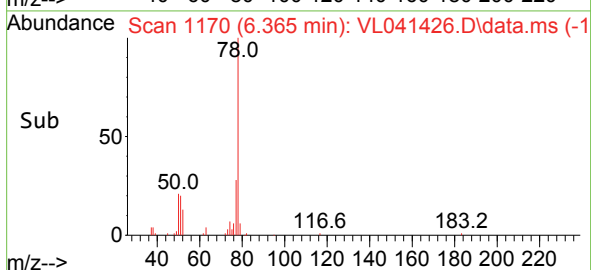
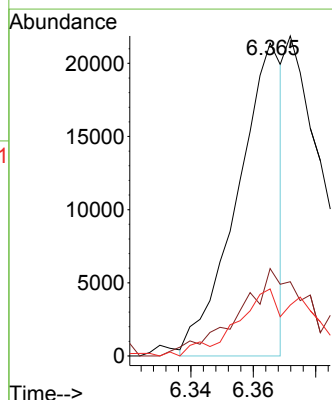
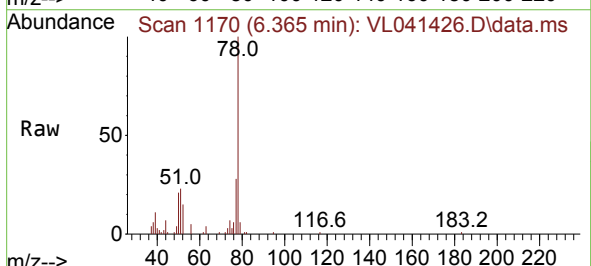
Tgt Ion: 78 Resp: 21424

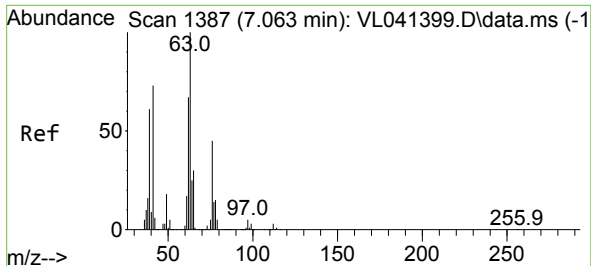
Ion Ratio Lower Upper

78 100

77 25.6 18.1 27.1

50 21.9 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.825 ppbv

RT: 6.652 min Scan# 1

Delta R.T. -0.412 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

Instrument :

MSVOA_L

ClientSampleId :

ACVI-SS-01DL

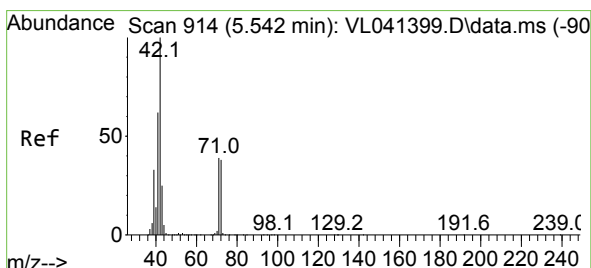
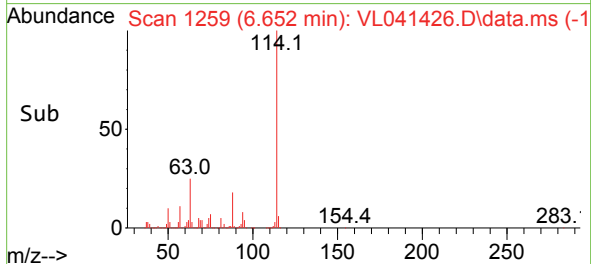
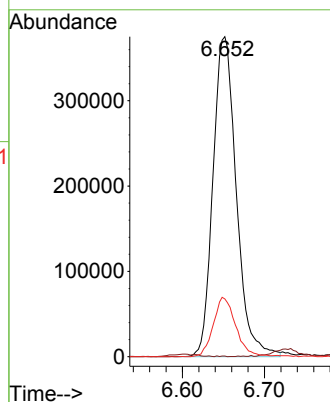
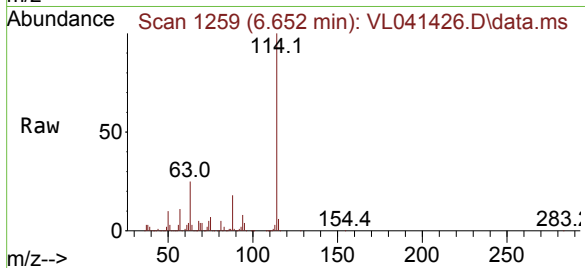
Tgt Ion: 63 Resp: 741601

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 18.0 53.9 80.9#



#41

Tetrahydrofuran

Concen: 0.055 ppbv

RT: 5.812 min Scan# 998

Delta R.T. 0.267 min

Lab File: VL041426.D

Acq: 29 Jul 2024 12:54

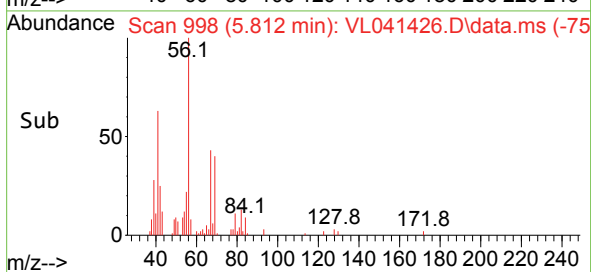
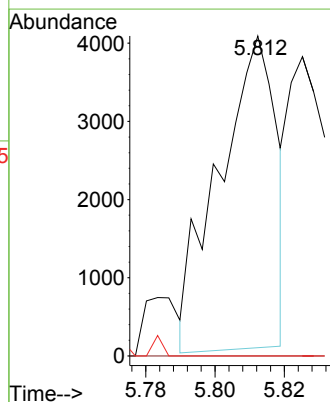
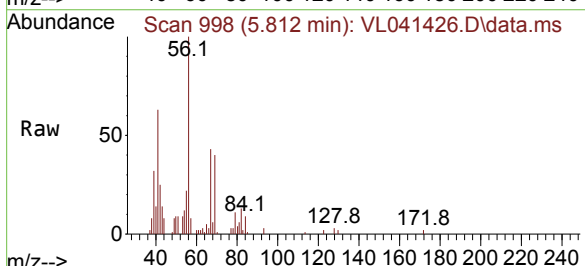
Tgt Ion: 42 Resp: 4611

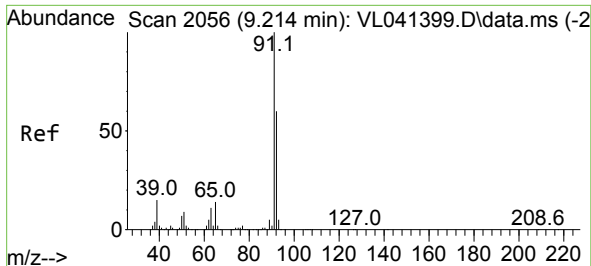
Ion Ratio Lower Upper

42 100

72 0.9 31.2 46.8#

71 0.0 30.5 45.7#

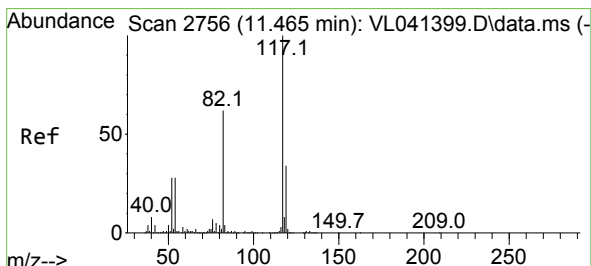
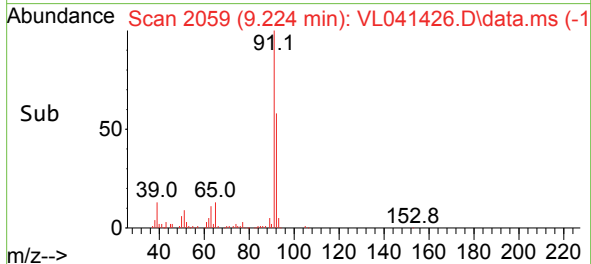
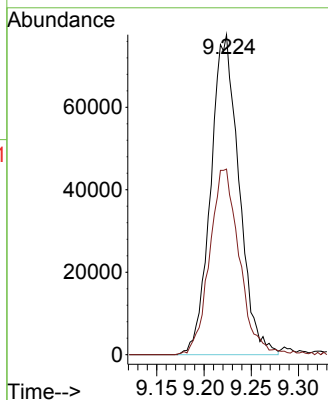
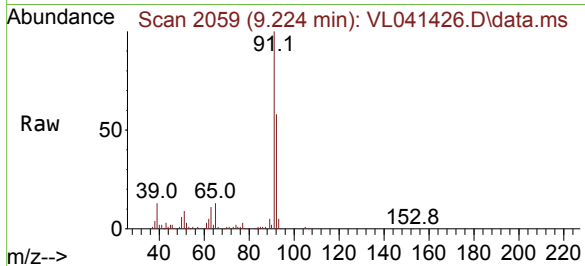




#53
Toluene
Concen: 0.661 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.006 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

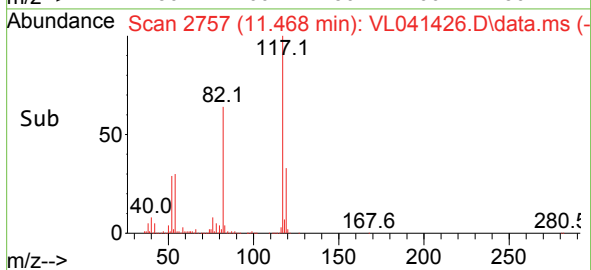
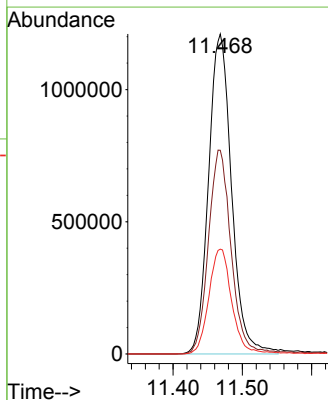
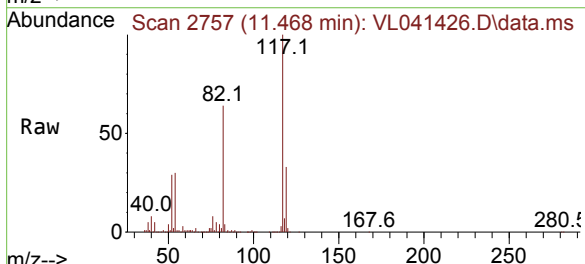
Instrument :
MSVOA_L
ClientSampleId :
ACVI-SS-01DL

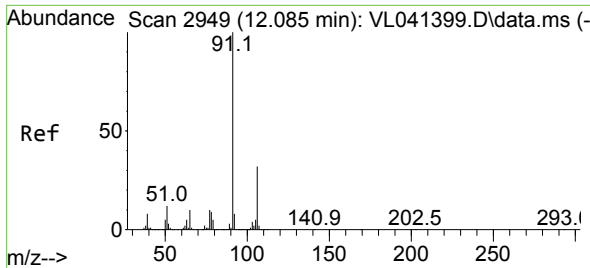
Tgt Ion: 91 Resp: 161670
Ion Ratio Lower Upper
91 100
92 61.4 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.468 min Scan# 2757
Delta R.T. 0.003 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 117 Resp: 2792283
Ion Ratio Lower Upper
117 100
82 63.1 51.0 76.6
119 33.1 45.2 67.8#

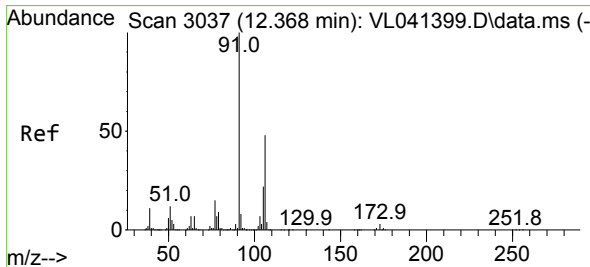
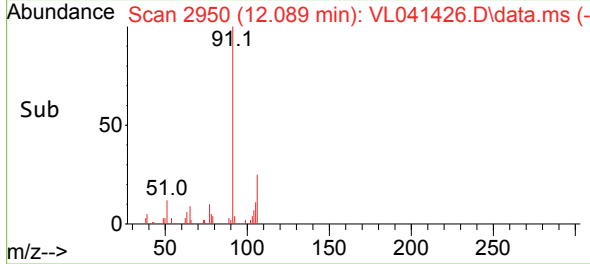
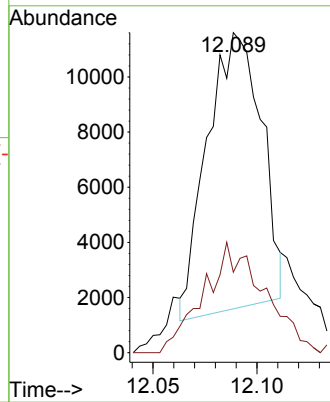
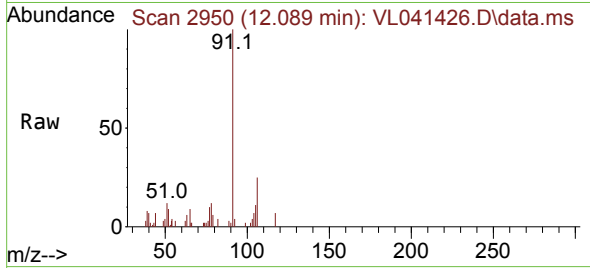




#58
Ethyl Benzene
Concen: 0.056 ppbv
RT: 12.089 min Scan# 2949
Delta R.T. 0.003 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

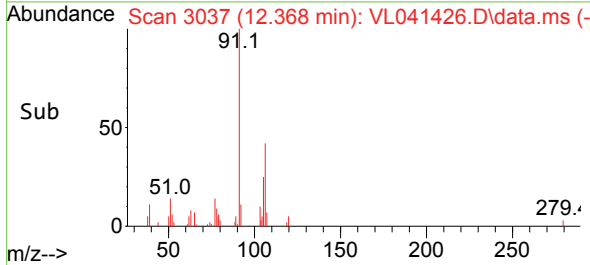
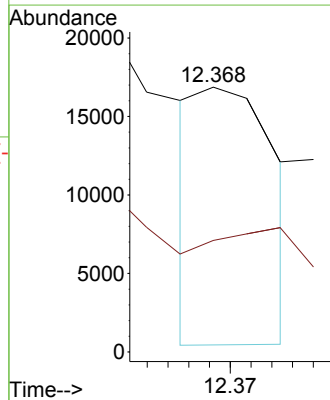
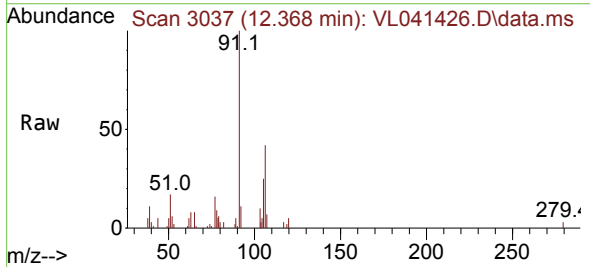
Instrument :
MSVOA_L
ClientSampleId :
ACVI-SS-01DL

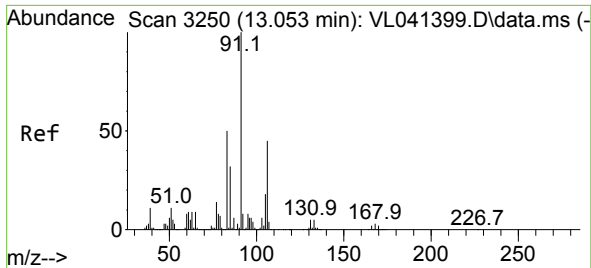
Tgt Ion: 91 Resp: 18134
Ion Ratio Lower Upper
91 100
106 20.4 25.8 38.8#



#59
m/p-Xylene
Concen: 0.030 ppbv
RT: 12.368 min Scan# 3037
Delta R.T. 0.000 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 91 Resp: 8445
Ion Ratio Lower Upper
91 100
106 0.0 36.3 54.5#

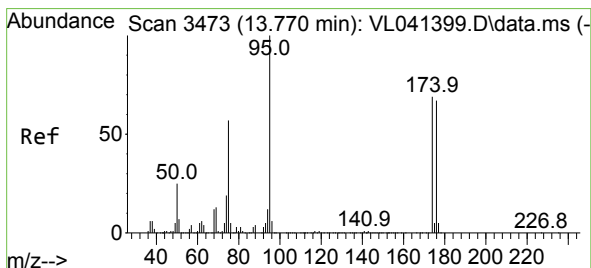
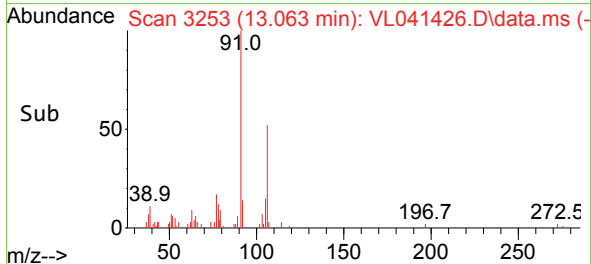
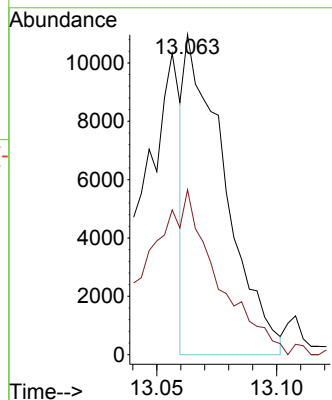
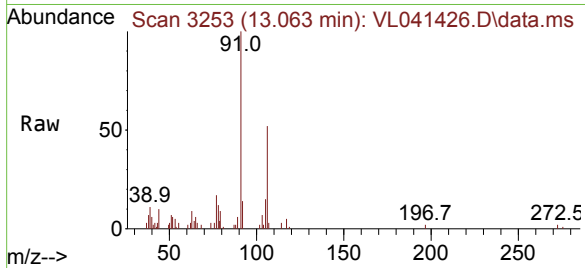




#60
o-Xylene
Concen: 0.048 ppbv
RT: 13.063 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Instrument :
MSVOA_L
ClientSampleId :
ACVI-SS-01DL

Tgt Ion: 91 Resp: 12658
Ion Ratio Lower Upper
91 100
106 96.0 23.1 69.3#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.995 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.006 min
Lab File: VL041426.D
Acq: 29 Jul 2024 12:54

Tgt Ion: 95 Resp: 2147701
Ion Ratio Lower Upper
95 100
174 70.8 56.3 84.5
175 5.2 4.0 6.0

