

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042324\
 Data File : VL041156.D
 Acq On : 23 Apr 2024 11:59
 Operator : SY/MD
 Sample : P2222-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 24 02:50:55 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Apr 24 02:47:46 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.188	49	1098628	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.645	114	2802351	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2399489	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.767	95	1897244	9.833	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.300%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	56456	0.300	ppbv #	84
3) Chlorodifluoromethane	2.681	51	90154	0.533	ppbv	96
4) Chloromethane	2.819	50	35381	0.553	ppbv #	87
5) Vinyl Chloride	2.706	62	2147	0.035	ppbv #	47
9) Propene	2.709	41	59307	1.102	ppbv #	71
11) Trichlorofluoromethane	3.562	101	40388	0.237	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.066	101	6291	0.051	ppbv #	54
13) Ethanol	3.246	45	219931	17.177	ppbv	97
15) Acetone	3.472	43	455602	3.830	ppbv	96
16) 1,3-Butadiene	2.973	39	2169	0.037	ppbv	87
17) tert-Butyl alcohol	3.893	59	5826	0.054	ppbv #	71
19) Isopropyl Alcohol	3.584	45	96751	1.339	ppbv #	89
20) Methylene Chloride	3.931	84	113520	2.314	ppbv	95
23) Vinyl Acetate	4.613	43	19659	0.162	ppbv #	78
25) Ethyl Acetate	5.208	43	139190	0.623	ppbv #	80
26) Hexane	5.208	57	177525	1.771	ppbv #	42
34) 2-Butanone	4.787	43	15132	0.128	ppbv #	20
36) Benzene	6.369	78	9237	0.045	ppbv	97
39) 1,2-Dichloropropane	6.645	63	707700	8.722	ppbv #	25
44) 2,2,4-Trimethylpentane	7.317	57	24152	0.071	ppbv #	45
53) Toluene	9.211	91	29797	0.138	ppbv #	78
61) Styrene	12.886	104	30574	0.307	ppbv	88
80) Naphthalene,2-methyl-	24.381	142	1285	0.041	ppbv #	78

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

Instrument :

MSVOA_L

ClientSampleId :

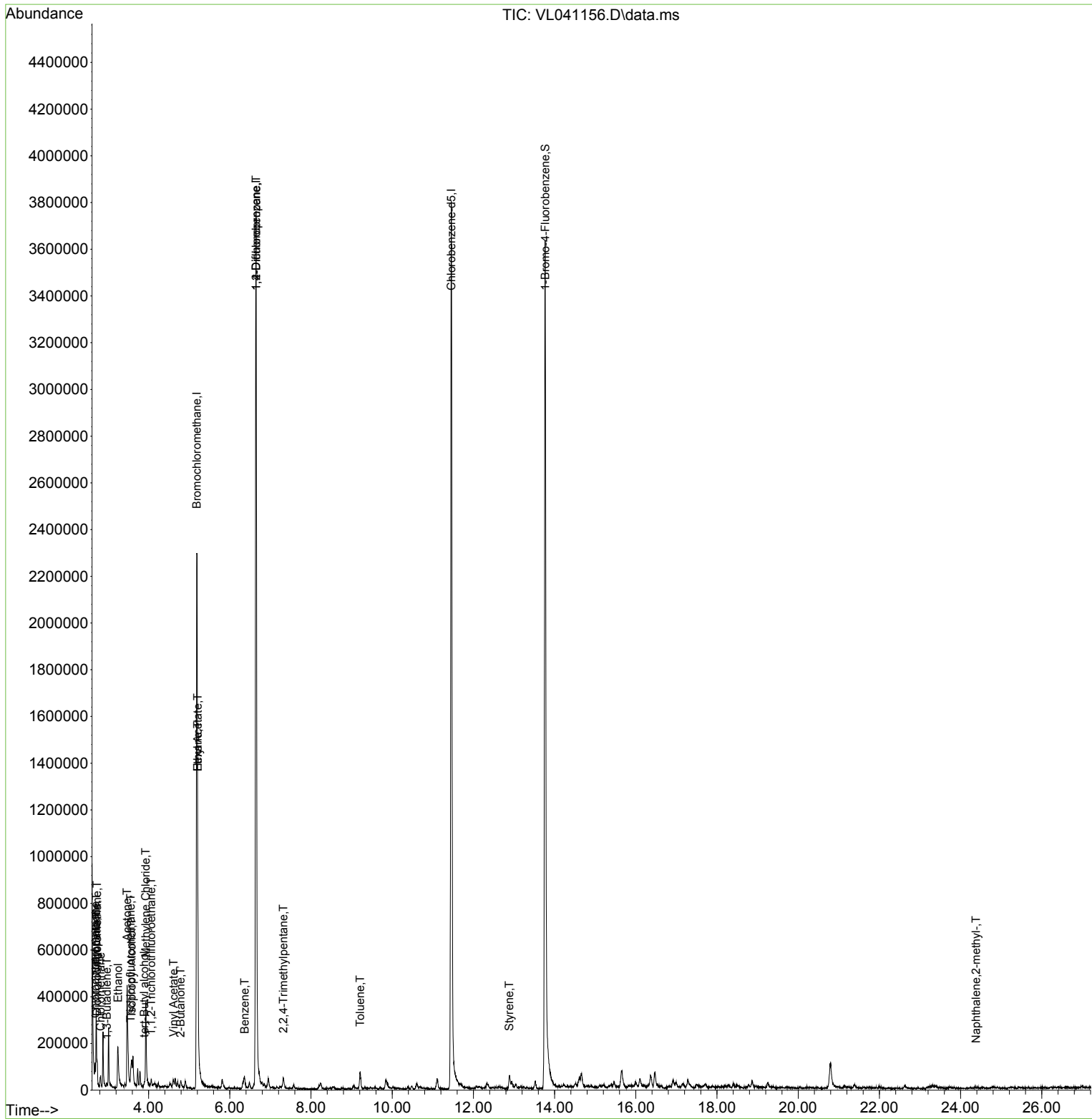
Quant Time: Apr 24 02:50:55 2024

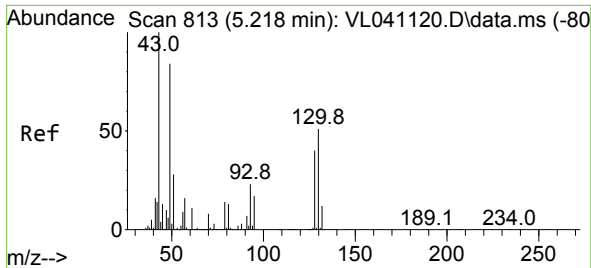
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL040424AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022

QLast Update : Wed Apr 24 02:47:46 2024

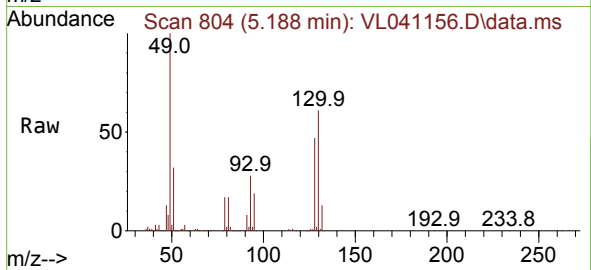
Response via : Initial Calibration





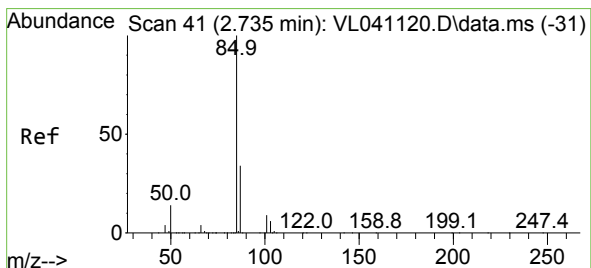
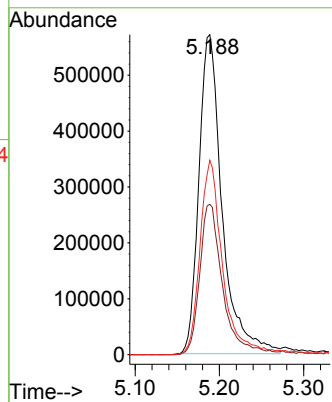
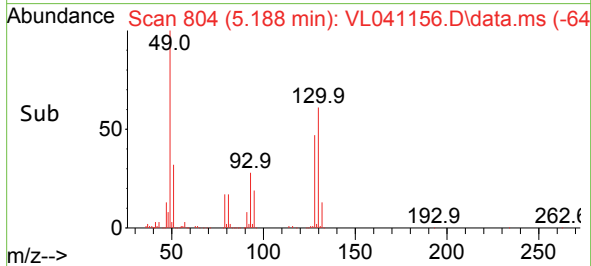
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.188 min Scan# 80
 Delta R.T. -0.001 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 49 Resp: 1098628

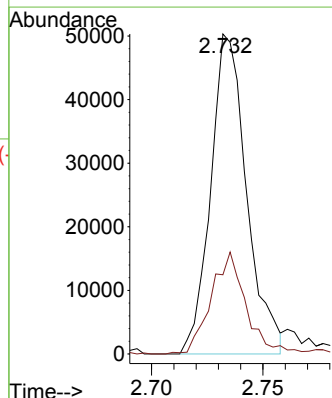
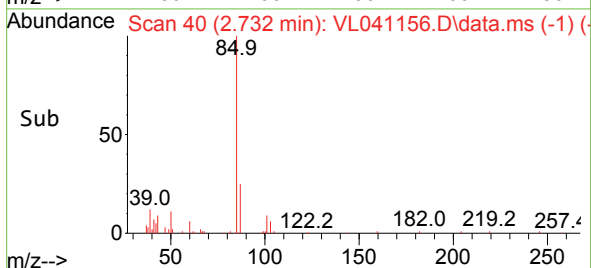
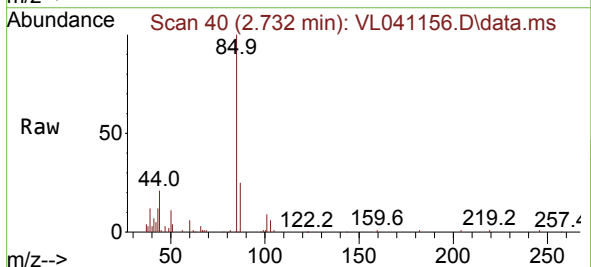
Ion	Ratio	Lower	Upper
49	100		
128	47.4	23.6	71.0
130	61.1	30.1	90.5

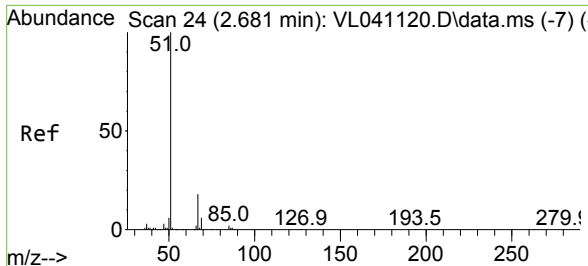


#2
 Dichlorodifluoromethane
 Concen: 0.300 ppbv
 RT: 2.732 min Scan# 40
 Delta R.T. -0.003 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

Tgt Ion: 85 Resp: 56456

Ion	Ratio	Lower	Upper
85	100		
87	24.4	27.0	40.6

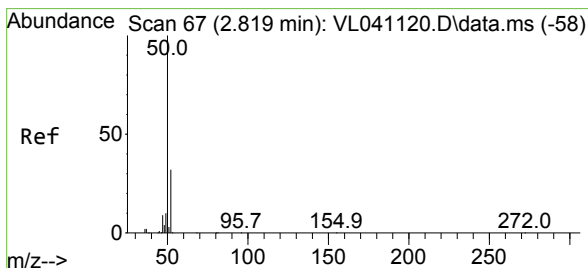
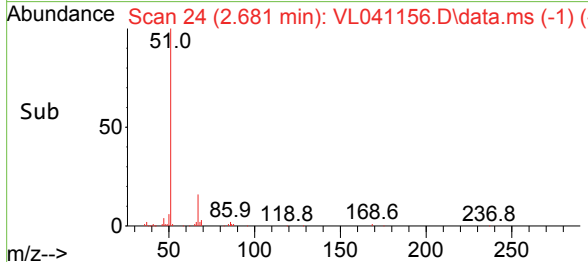
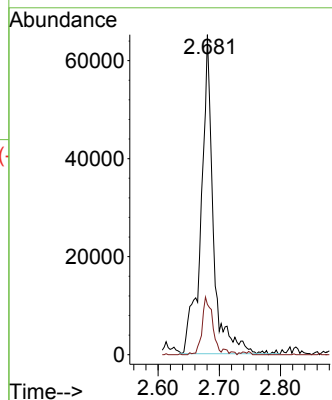
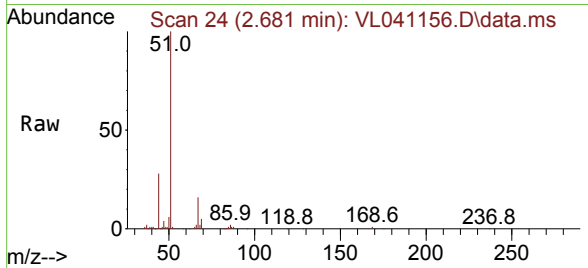




#3
Chlorodifluoromethane
Concen: 0.533 ppbv
RT: 2.681 min Scan# 24
Delta R.T. -0.000 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

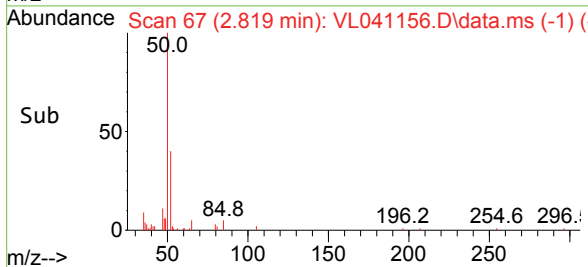
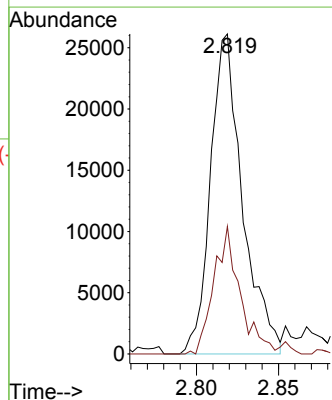
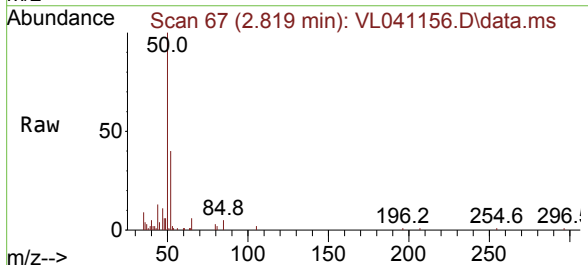
Instrument :
MSVOA_L
ClientSampleId :

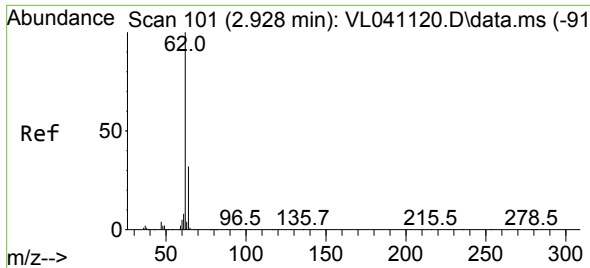
Tgt Ion: 51 Resp: 90154
Ion Ratio Lower Upper
51 100
67 17.0 14.9 22.3



#4
Chloromethane
Concen: 0.553 ppbv
RT: 2.819 min Scan# 67
Delta R.T. -0.000 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Tgt Ion: 50 Resp: 35381
Ion Ratio Lower Upper
50 100
52 39.8 26.0 39.0#

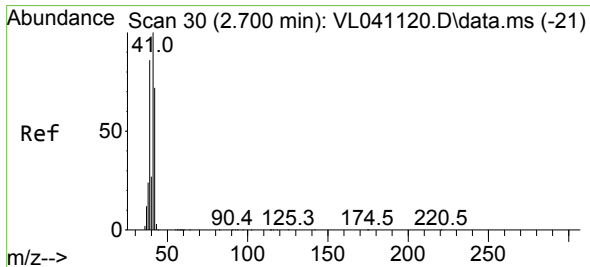
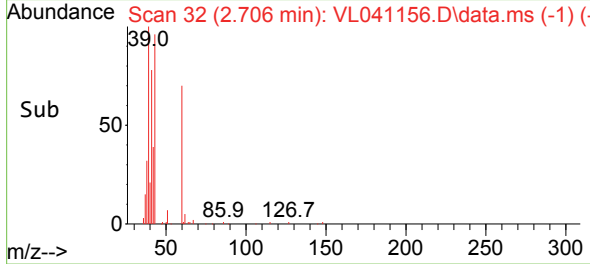
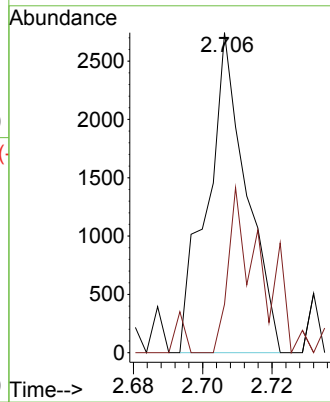
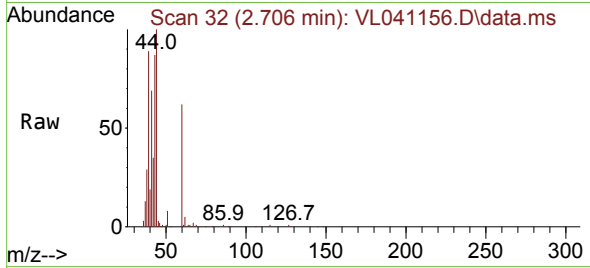




#5
 Vinyl Chloride
 Concen: 0.035 ppbv
 RT: 2.706 min Scan# 31
 Delta R.T. -0.219 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

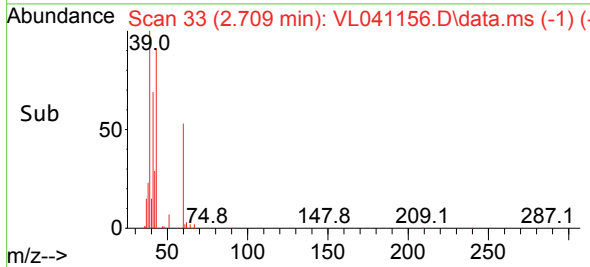
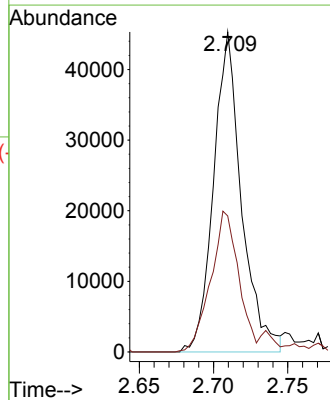
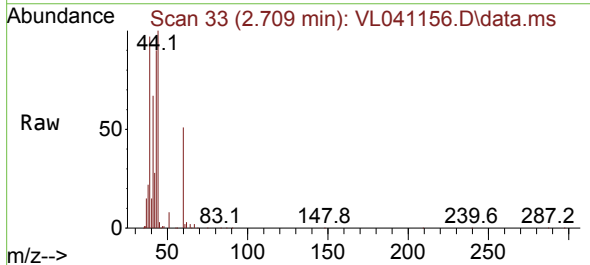
Instrument :
 MSVOA_L
 ClientSampleId :

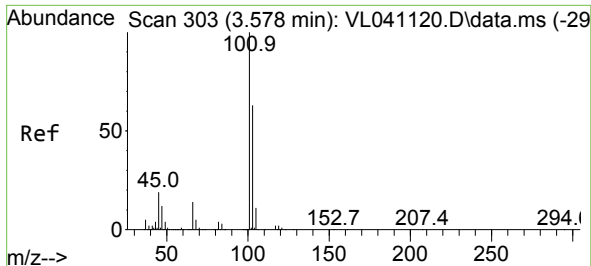
Tgt Ion: 62 Resp: 2147
 Ion Ratio Lower Upper
 62 100
 64 2.4 25.6 38.4#



#9
 Propene
 Concen: 1.102 ppbv
 RT: 2.709 min Scan# 33
 Delta R.T. 0.009 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

Tgt Ion: 41 Resp: 59307
 Ion Ratio Lower Upper
 41 100
 42 50.0 60.1 90.1#

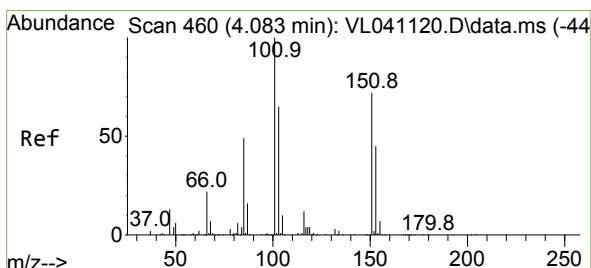
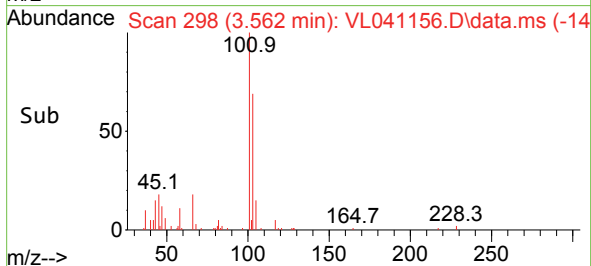
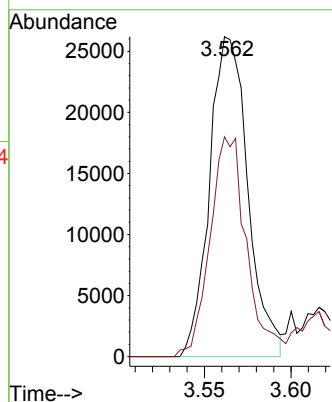
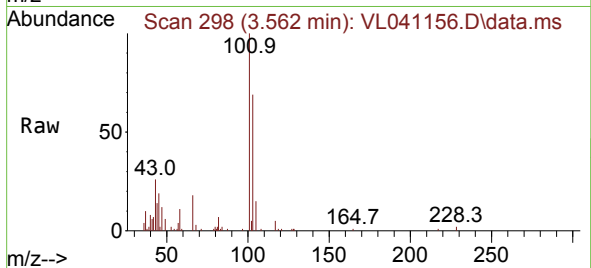




#11
 Trichlorofluoromethane
 Concen: 0.237 ppbv
 RT: 3.562 min Scan# 24
 Delta R.T. -0.000 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

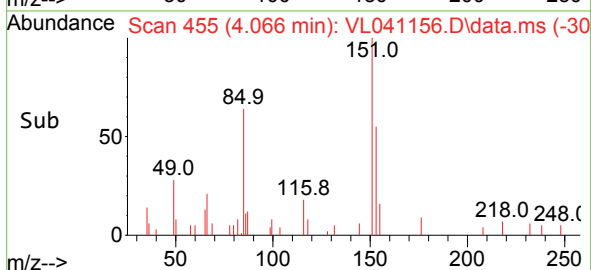
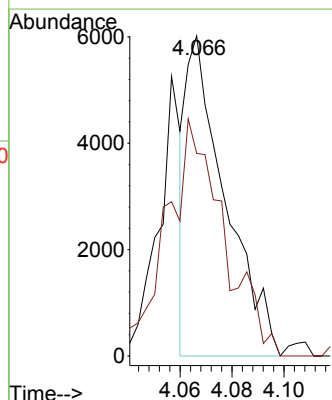
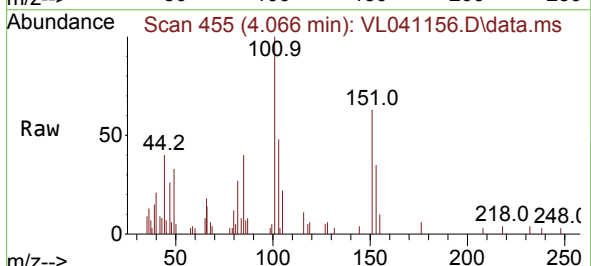
Instrument :
 MSVOA_L
 ClientSampleId :

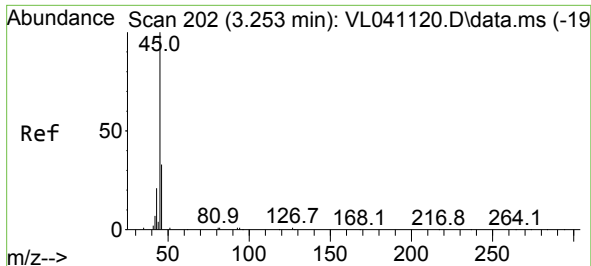
Tgt Ion:101 Resp: 40388
 Ion Ratio Lower Upper
 101 100
 103 66.6 50.6 75.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.051 ppbv
 RT: 4.066 min Scan# 455
 Delta R.T. -0.000 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

Tgt Ion:101 Resp: 6291
 Ion Ratio Lower Upper
 101 100
 151 108.1 56.2 84.4#

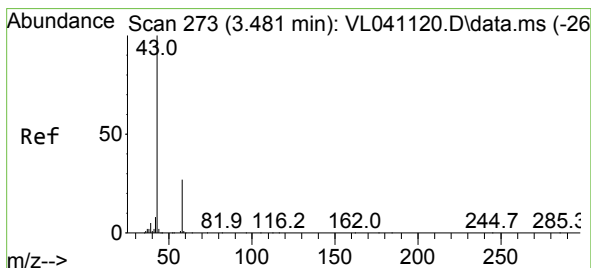
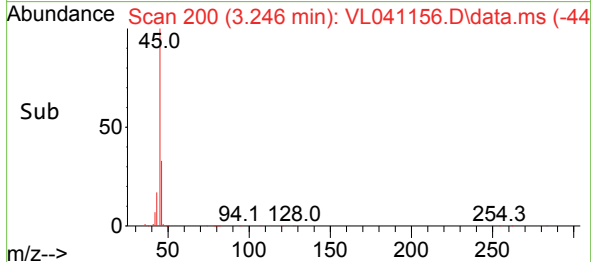
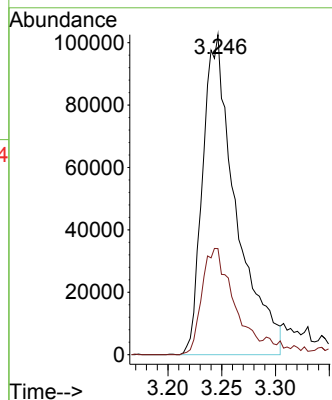
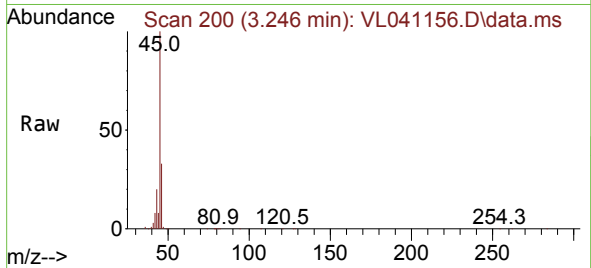




#13
Ethanol
Concen: 17.177 ppbv
RT: 3.246 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

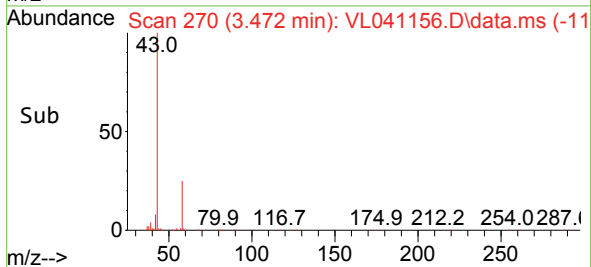
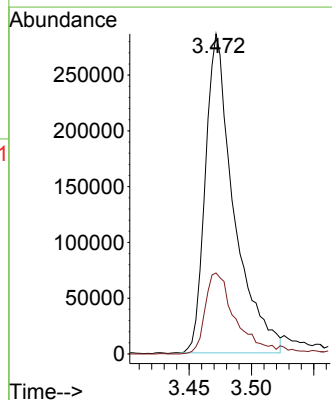
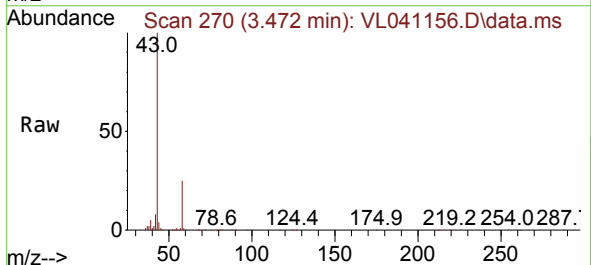
Instrument :
MSVOA_L
ClientSampleId :

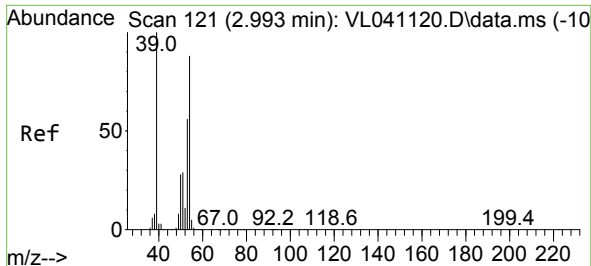
Tgt Ion: 45 Resp: 219931
Ion Ratio Lower Upper
45 100
46 35.3 15.0 59.8



#15
Acetone
Concen: 3.830 ppbv
RT: 3.472 min Scan# 270
Delta R.T. 0.003 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Tgt Ion: 43 Resp: 455602
Ion Ratio Lower Upper
43 100
58 28.6 21.1 31.7

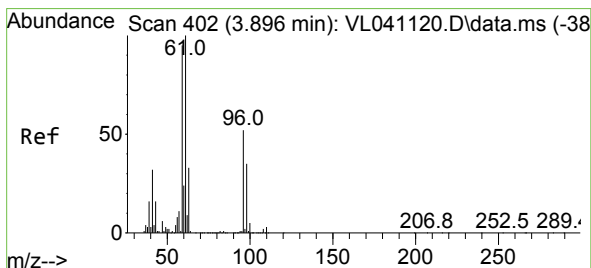
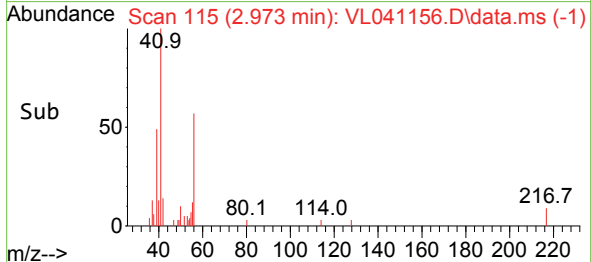
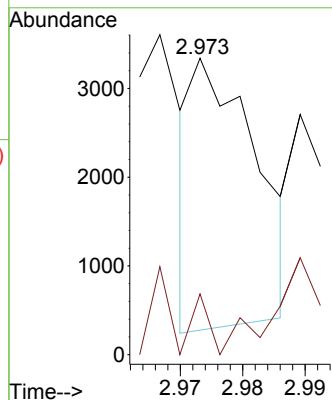
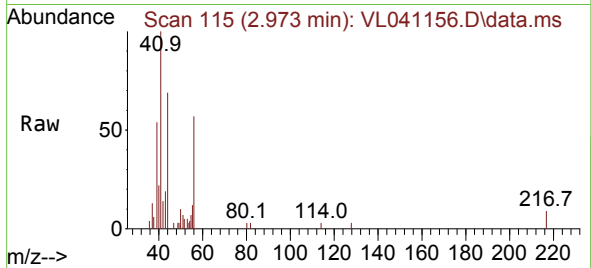




#16
1,3-Butadiene
Concen: 0.037 ppbv
RT: 2.973 min Scan# 115
Delta R.T. -0.016 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

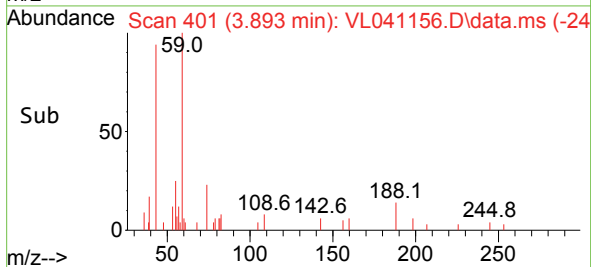
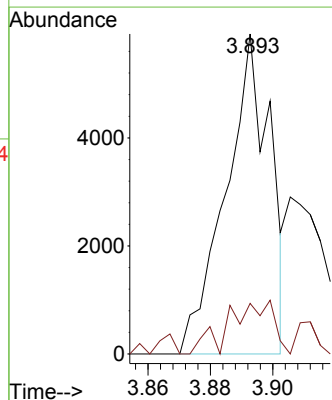
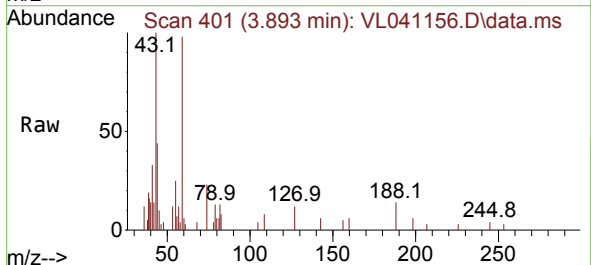
Instrument :
MSVOA_L
ClientSampleId :

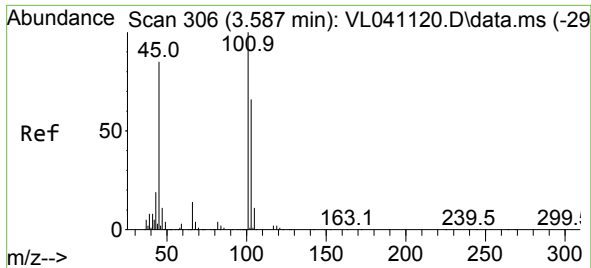
Tgt Ion: 39 Resp: 2169
Ion Ratio Lower Upper
39 100
54 90.5 63.5 95.3



#17
tert-Butyl alcohol
Concen: 0.054 ppbv
RT: 3.893 min Scan# 401
Delta R.T. 0.016 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Tgt Ion: 59 Resp: 5826
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 1.339 ppbv

RT: 3.584 min Scan# 306

Delta R.T. 0.009 min

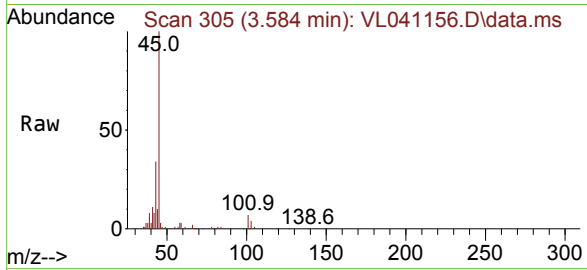
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Acq: 23 Apr 2024 11:59

Instrument :

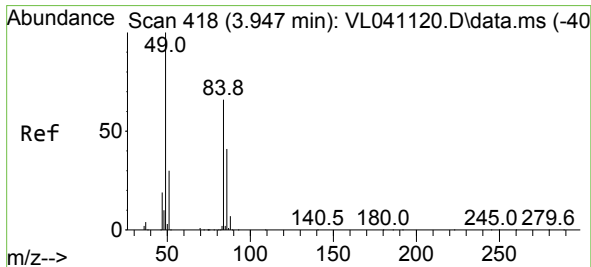
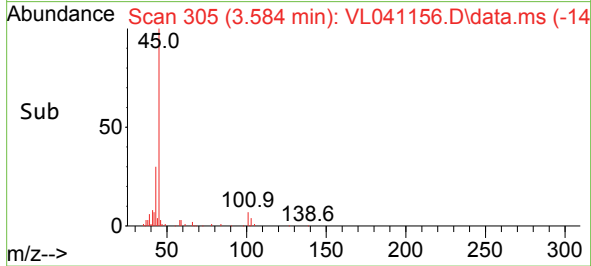
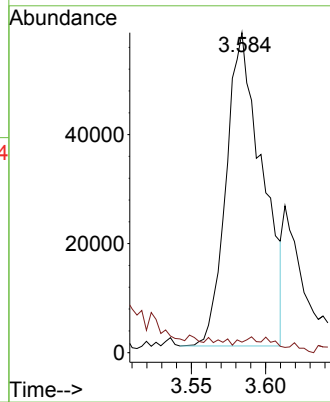
MSVOA_L

ClientSampleId :



Tgt Ion: 45 Resp: 96751

Ion	Ratio	Lower	Upper
45	100		
58	7.1	2.8	4.2#



#20

Methylene Chloride

Concen: 2.314 ppbv

RT: 3.931 min Scan# 413

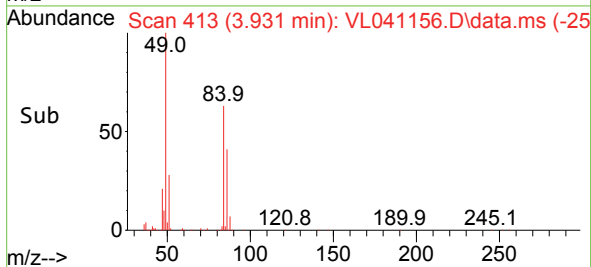
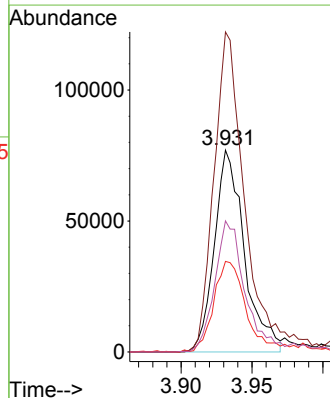
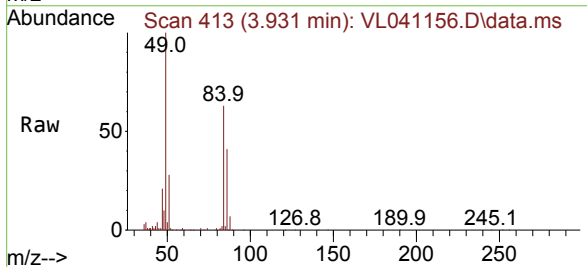
Delta R.T. -0.000 min

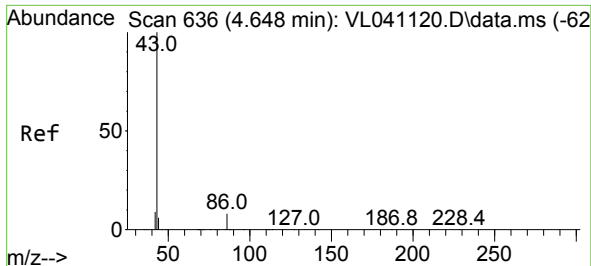
Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

Tgt Ion: 84 Resp: 113520

Ion	Ratio	Lower	Upper
84	100		
49	158.6	120.7	181.1
51	44.9	36.6	54.8
86	64.8	49.2	73.8



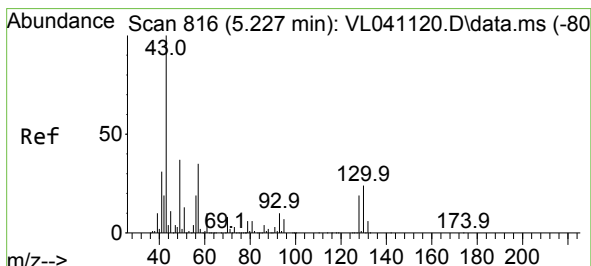
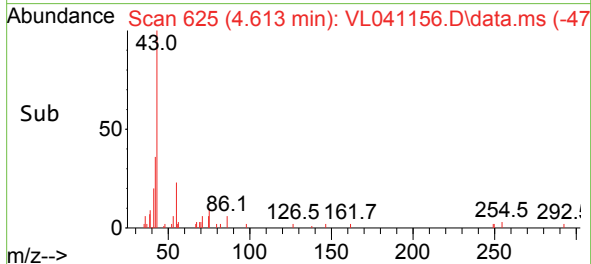
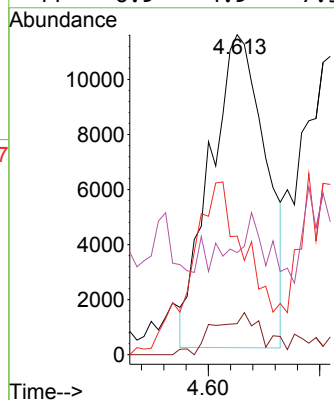
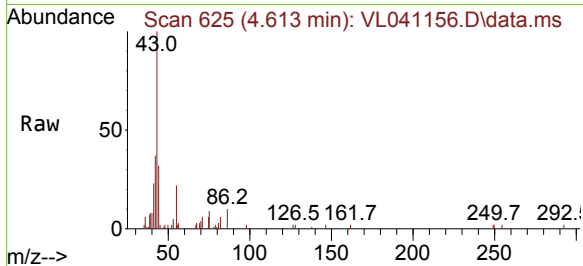


#23
 Vinyl Acetate
 Concen: 0.162 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. -0.010 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 19659

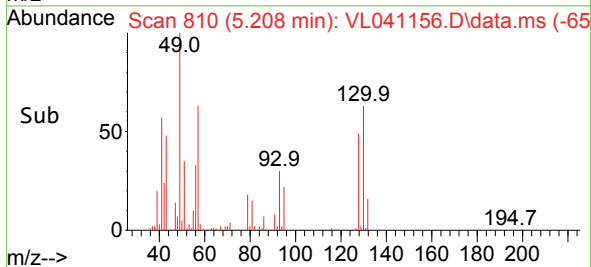
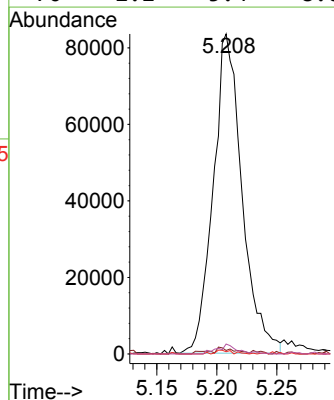
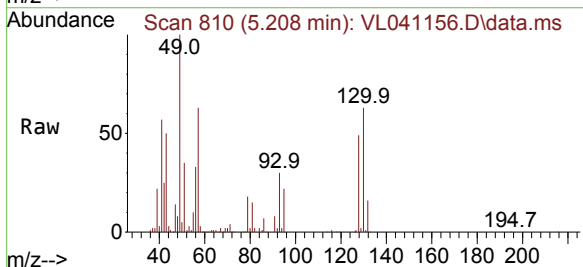
Ion	Ratio	Lower	Upper
43	100		
86	9.4	6.2	9.4#
42	27.8	7.7	11.5#
44	6.9	4.9	7.3

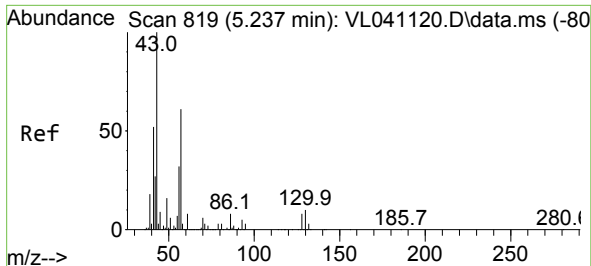


#25
 Ethyl Acetate
 Concen: 0.623 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.009 min
 Lab File: VL041156.D
 Acq: 23 Apr 2024 11:59

Tgt Ion: 43 Resp: 139190

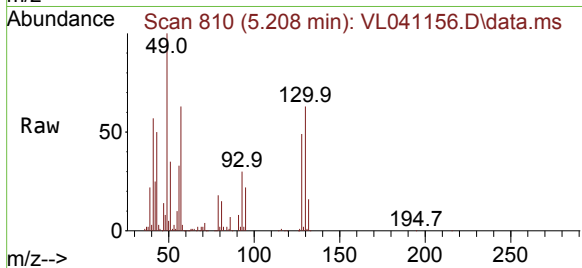
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.0	12.0#
61	0.7	7.8	11.6#
70	2.2	5.4	8.0#



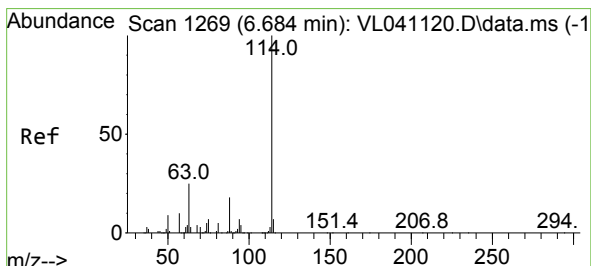
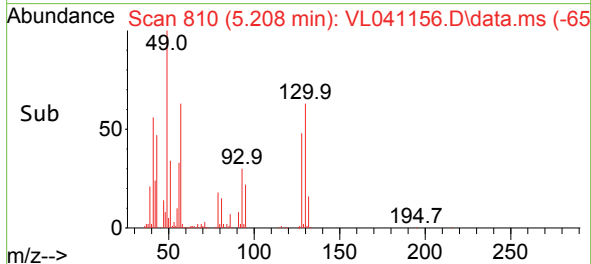
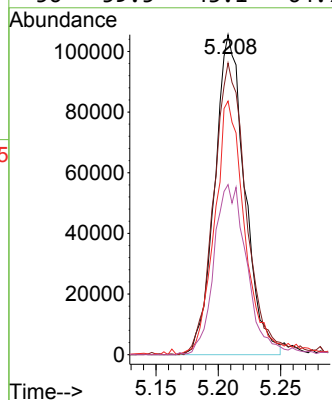


#26
Hexane
Concen: 1.771 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Instrument :
MSVOA_L
ClientSampleId :

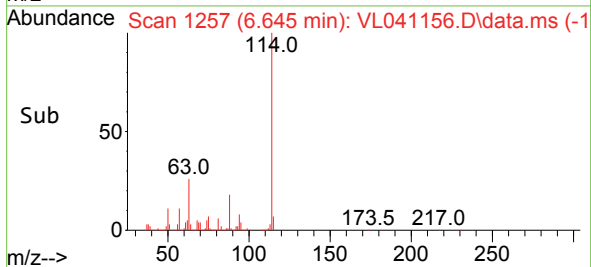
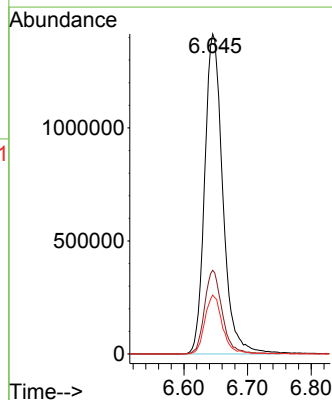
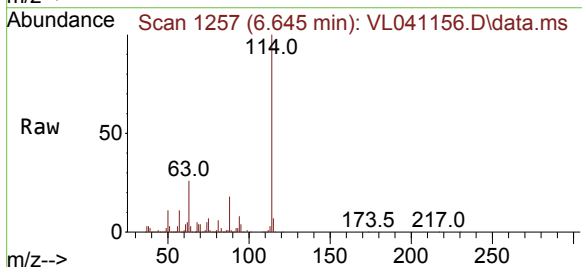


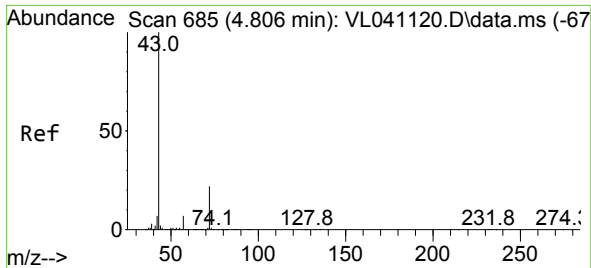
Tgt Ion: 57 Resp: 177525
Ion Ratio Lower Upper
57 100
41 99.7 73.8 110.8
43 82.7 186.2 279.2#
56 59.5 43.1 64.7



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.645 min Scan# 1257
Delta R.T. -0.000 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Tgt Ion:114 Resp: 2802351
Ion Ratio Lower Upper
114 100
63 25.9 20.9 31.3
88 18.0 14.5 21.7

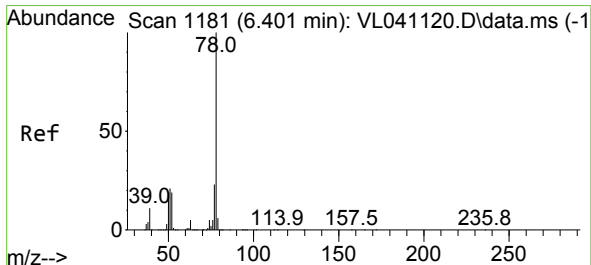
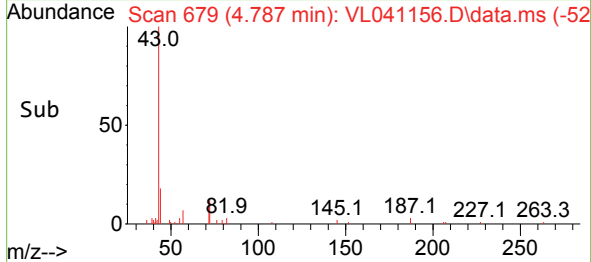
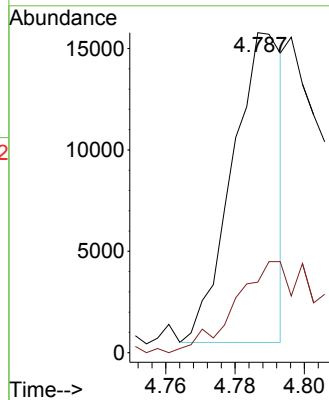
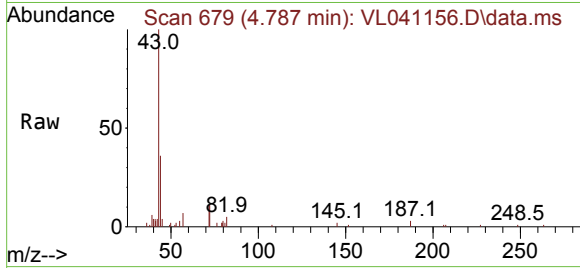




#34
2-Butanone
Concen: 0.128 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.006 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

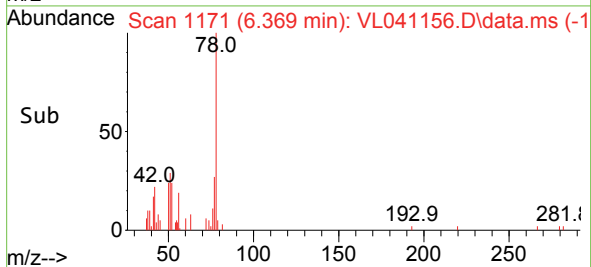
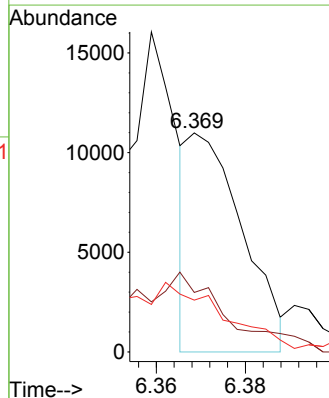
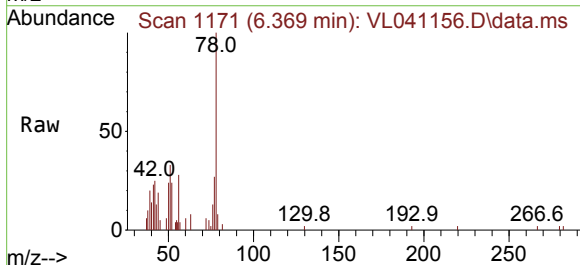
Instrument :
MSVOA_L
ClientSampleId :

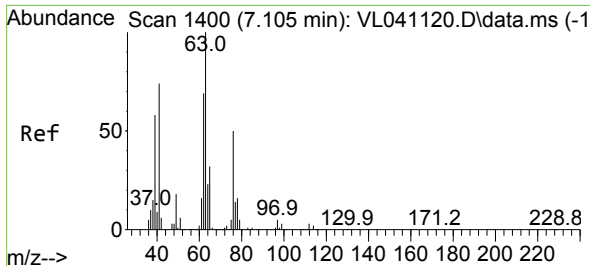
Tgt Ion: 43 Resp: 15132
Ion Ratio Lower Upper
43 100
72 60.3 17.6 26.4#



#36
Benzene
Concen: 0.045 ppbv
RT: 6.369 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Tgt Ion: 78 Resp: 9237
Ion Ratio Lower Upper
78 100
77 22.3 18.2 27.4
50 21.6 15.4 23.2





#39

1,2-Dichloropropane

Concen: 8.722 ppbv

RT: 6.645 min Scan# 11

Delta R.T. -0.418 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

Instrument :

MSVOA_L

ClientSampleId :

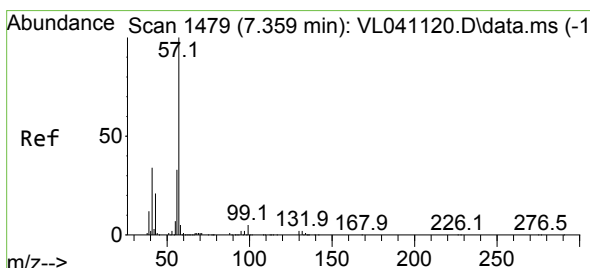
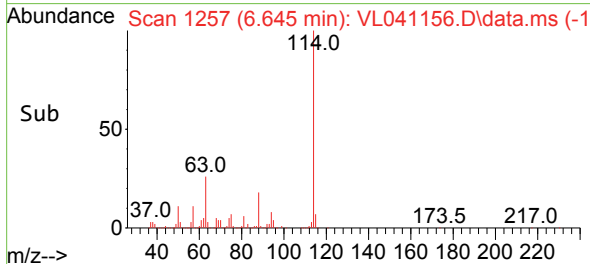
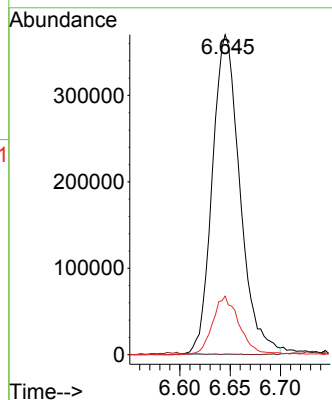
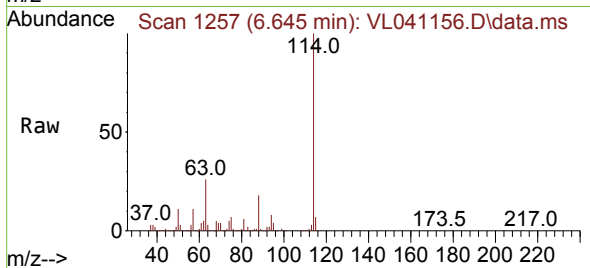
Tgt Ion: 63 Resp: 707700

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

62 18.3 55.5 83.3#



#44

2,2,4-Trimethylpentane

Concen: 0.071 ppbv

RT: 7.317 min Scan# 1466

Delta R.T. -0.003 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

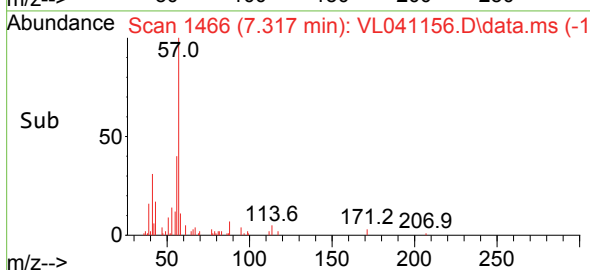
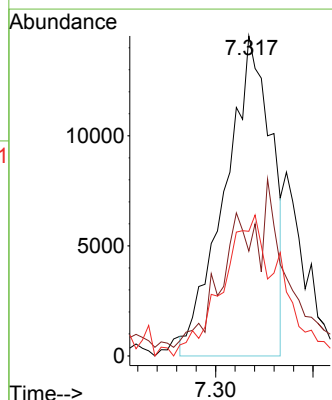
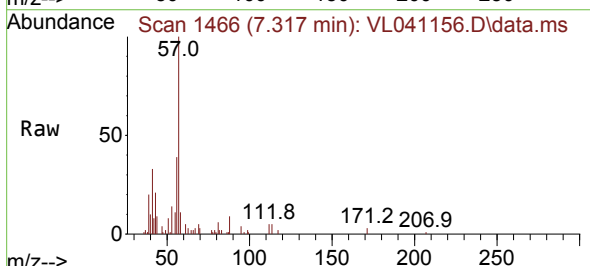
Tgt Ion: 57 Resp: 24152

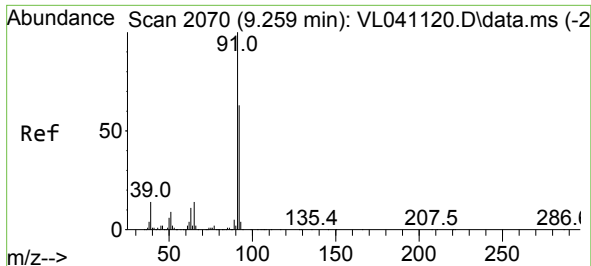
Ion Ratio Lower Upper

57 100

41 0.0 28.2 42.2#

56 58.0 25.2 37.8#

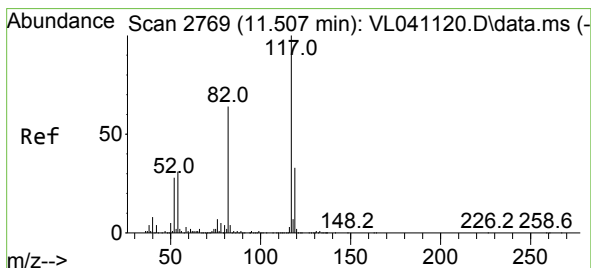
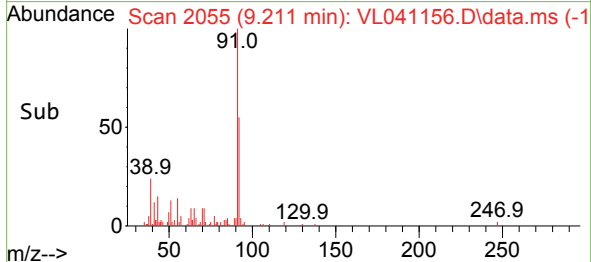
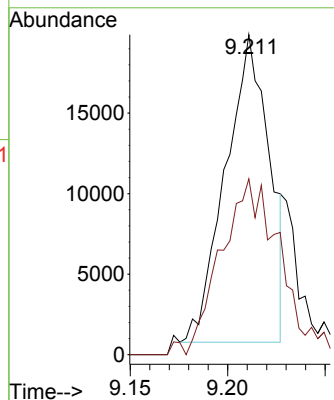
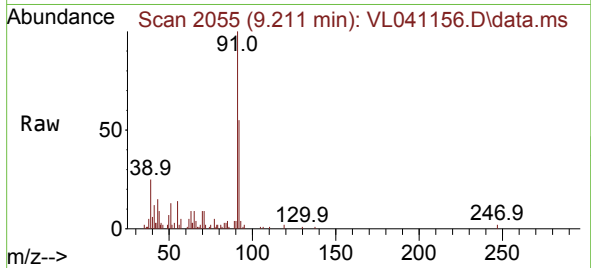




#53
Toluene
Concen: 0.138 ppbv
RT: 9.211 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

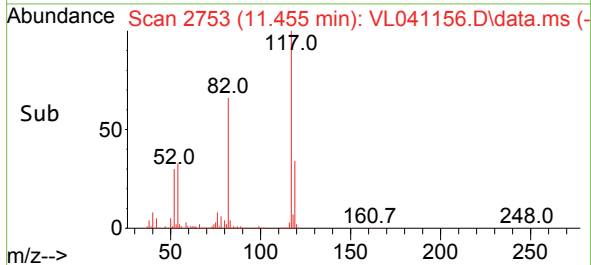
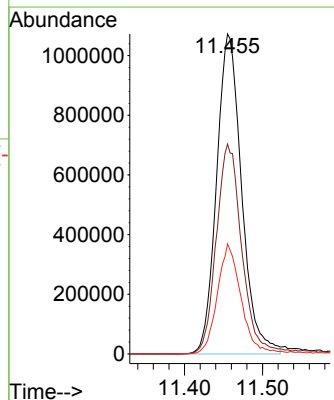
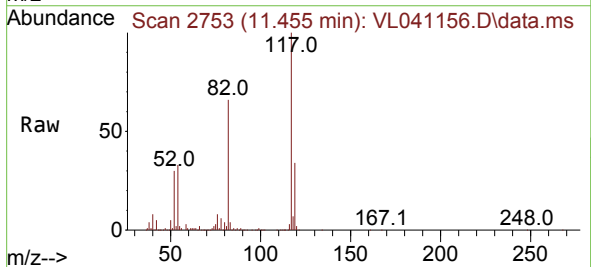
Instrument :
MSVOA_L
ClientSampleId :

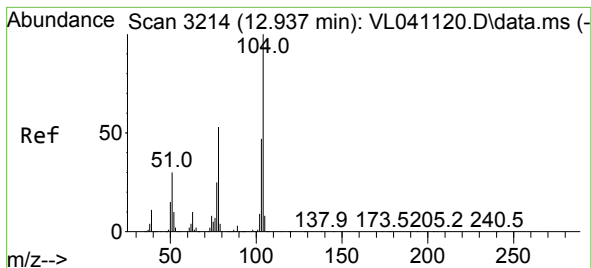
Tgt Ion: 91 Resp: 29797
Ion Ratio Lower Upper
91 100
92 78.3 49.0 73.4#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.000 min
Lab File: VL041156.D
Acq: 23 Apr 2024 11:59

Tgt Ion: 117 Resp: 2399489
Ion Ratio Lower Upper
117 100
82 67.9 51.0 76.6
119 33.2 25.2 37.8





#61

Styrene

Concen: 0.307 ppbv

RT: 12.886 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

Instrument :

MSVOA_L

ClientSampleId :

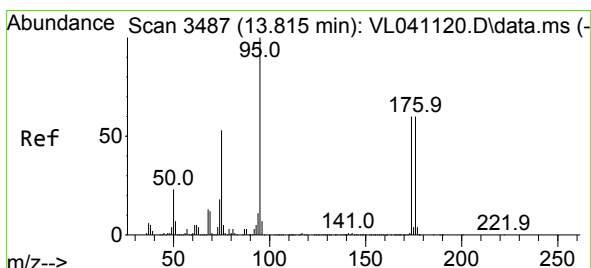
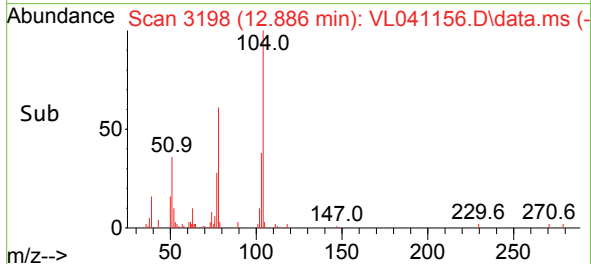
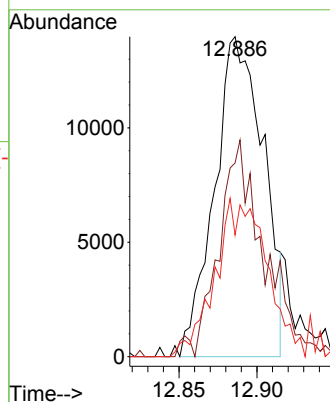
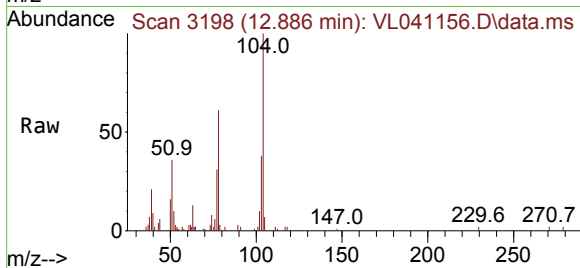
Tgt Ion:104 Resp: 30574

Ion Ratio Lower Upper

104 100

78 63.9 43.3 64.9

103 54.6 38.2 57.2



#68

1-Bromo-4-Fluorobenzene

Concen: 9.833 ppbv

RT: 13.767 min Scan# 3472

Delta R.T. 0.003 min

Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

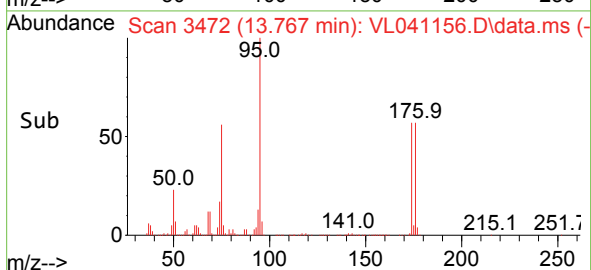
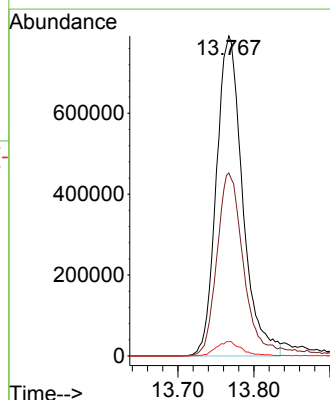
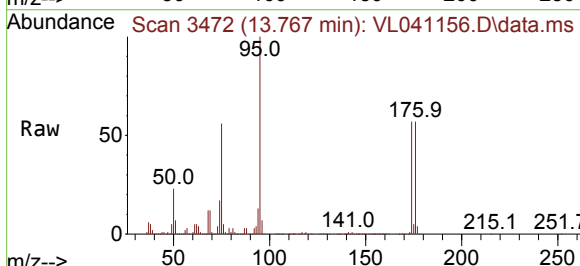
Tgt Ion: 95 Resp: 1897244

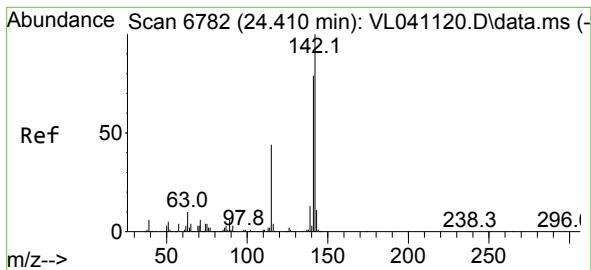
Ion Ratio Lower Upper

95 100

174 60.9 49.3 73.9

175 4.6 3.6 5.4





#80

Naphthalene, 2-methyl-

Concen: 0.041 ppbv

RT: 24.381 min Scan# 61

Delta R.T. 0.013 min

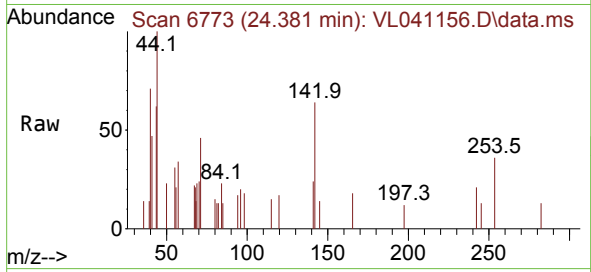
Lab File: VL041156.D

Acq: 23 Apr 2024 11:59

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 142 Resp: 1285

Ion Ratio Lower Upper

142 100

141 71.0 64.4 96.6

115 69.7 33.5 50.3#

