

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL061124\
 Data File : VL041348.D
 Acq On : 11 Jun 2024 15:34
 Operator : SY/MD
 Sample : P2837-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

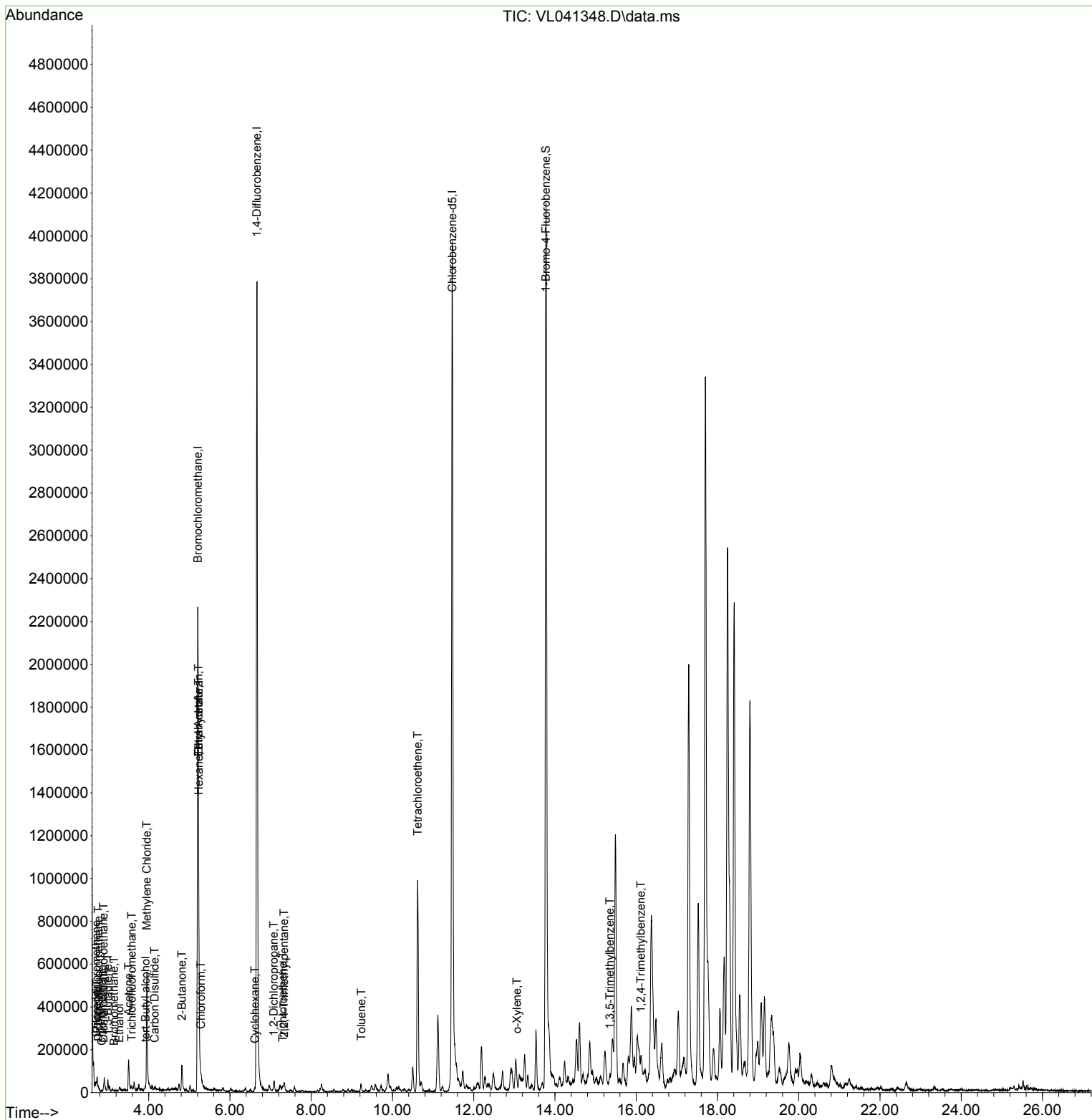
Quant Time: Jun 12 01:24:31 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 12 01:18:29 2024
 Response via : Initial Calibration

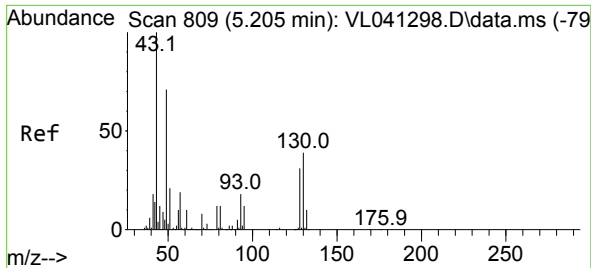
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.208	49	1102101	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.664	114	2957083	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2694810	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.780	95	2070730	9.952	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.500%
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.761	85	12228	0.069	ppbv	89
3) Chlorodifluoromethane	2.703	51	49536	0.284	ppbv #	88
4) Chloromethane	2.845	50	3094	0.047	ppbv #	43
6) Bromomethane	3.147	94	1215	0.052	ppbv #	50
8) Dichlorotetrafluoroethane	2.886	85	6006	0.037	ppbv	99
9) Propene	2.726	41	12477	0.201	ppbv #	59
11) Trichlorofluoromethane	3.584	101	10353	0.064	ppbv #	63
13) Ethanol	3.279	45	13483	0.835	ppbv	81
15) Acetone	3.504	43	153646	1.221	ppbv #	87
16) 1,3-Butadiene	2.996	39	15871	0.251	ppbv #	34
17) tert-Butyl alcohol	3.925	59	7008	0.060	ppbv #	71
20) Methylene Chloride	3.954	84	184169	4.027	ppbv	98
25) Ethyl Acetate	5.227	43	186476	0.749	ppbv #	79
26) Hexane	5.230	57	264826	2.366	ppbv #	42
27) Carbon Disulfide	4.147	76	14016	0.113	ppbv #	53
29) Chloroform	5.285	83	8007	0.047	ppbv	90
30) Cyclohexane	6.613	84	3500	0.039	ppbv #	1
34) 2-Butanone	4.816	43	141424	0.998	ppbv	93
38) Trichloroethene	7.304	130	3328	0.036	ppbv #	51
39) 1,2-Dichloropropane	7.082	63	8507	0.093	ppbv #	73
41) Tetrahydrofuran	5.227	42	96444	1.046	ppbv #	50
44) 2,2,4-Trimethylpentane	7.333	57	21154	0.054	ppbv #	44
52) Tetrachloroethene	10.622	164	245917	2.942	ppbv	96
53) Toluene	9.233	91	11256	0.043	ppbv #	27
60) o-Xylene	13.063	91	11177	0.040	ppbv	68
73) 1,3,5-Trimethylbenzene	15.352	105	8983	0.031	ppbv #	55
74) 1,2,4-Trimethylbenzene	16.114	105	14177	0.044	ppbv #	75

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

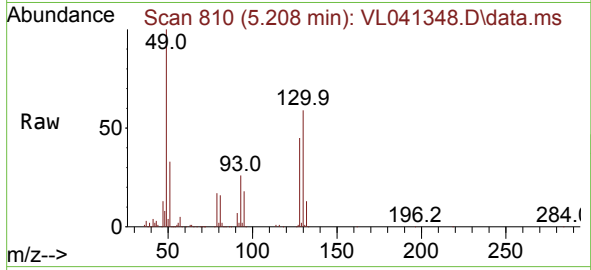
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Wed Jun 12 01:18:29 2024
Response via : Initial Calibration



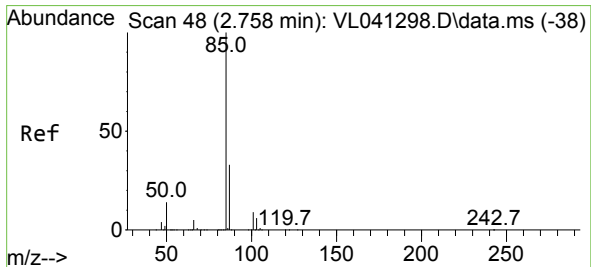
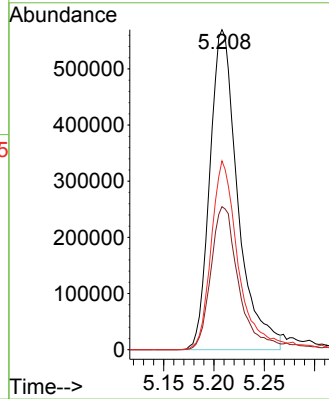
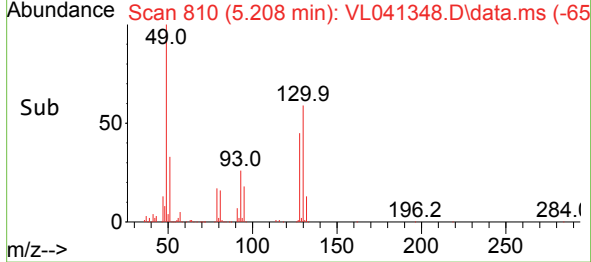


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.003 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :

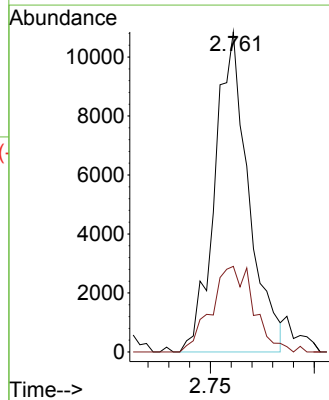
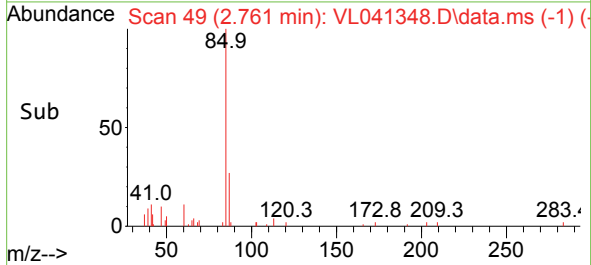
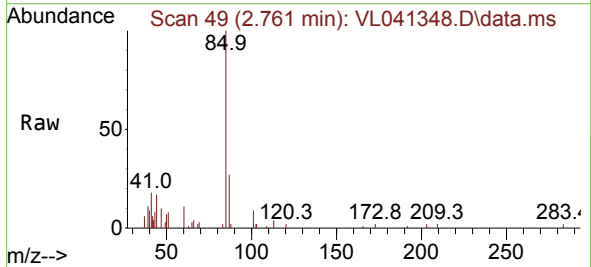


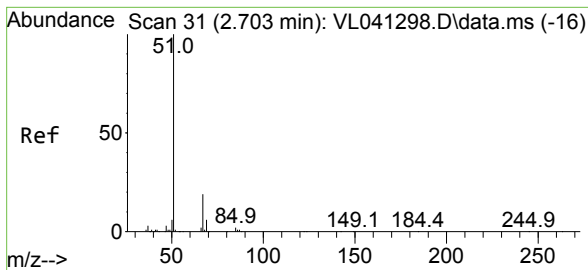
Tgt Ion: 49 Resp: 1102101
Ion Ratio Lower Upper
49 100
128 46.9 22.8 68.3
130 60.8 28.4 85.3



#2
Dichlorodifluoromethane
Concen: 0.069 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 85 Resp: 12228
Ion Ratio Lower Upper
85 100
87 26.8 26.5 39.7

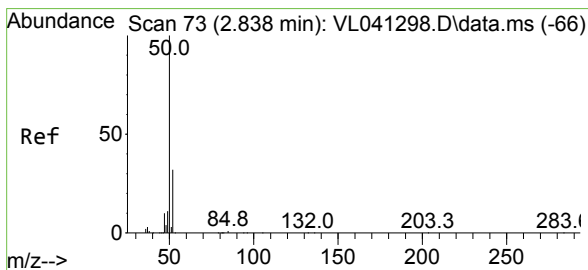
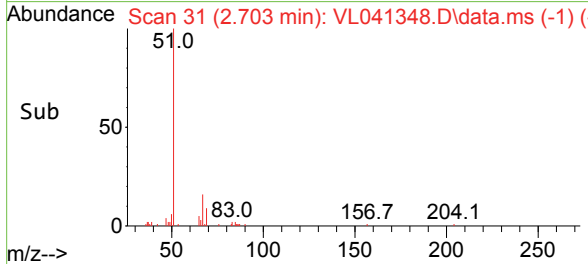
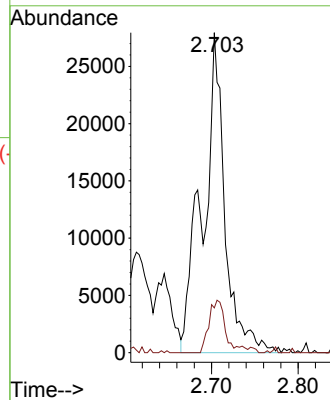
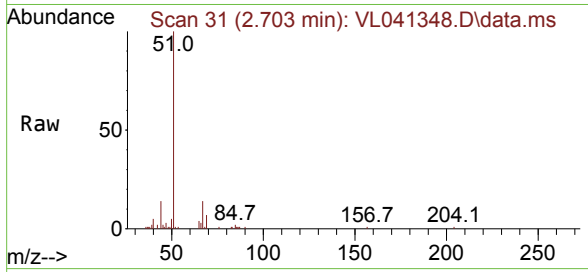




#3
Chlorodifluoromethane
Concen: 0.284 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

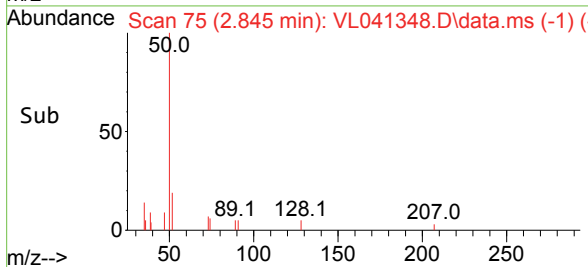
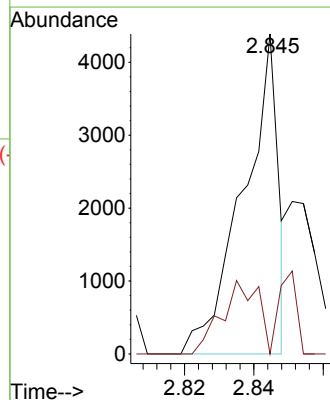
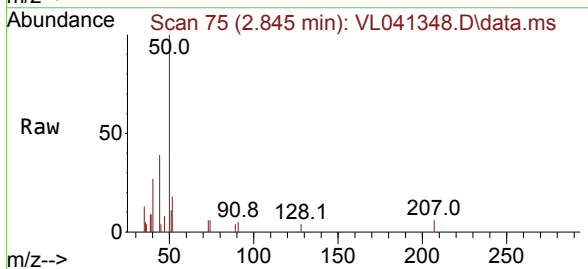
Instrument :
MSVOA_L
ClientSampleId :

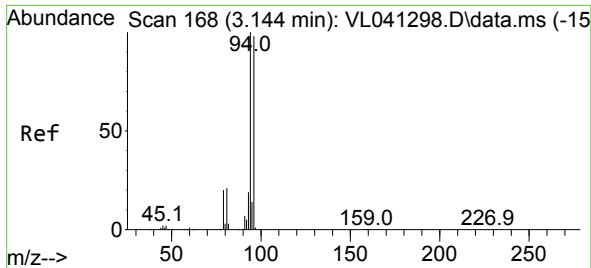
Tgt Ion: 51 Resp: 49536
Ion Ratio Lower Upper
51 100
67 13.1 14.7 22.1#



#4
Chloromethane
Concen: 0.047 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 50 Resp: 3094
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

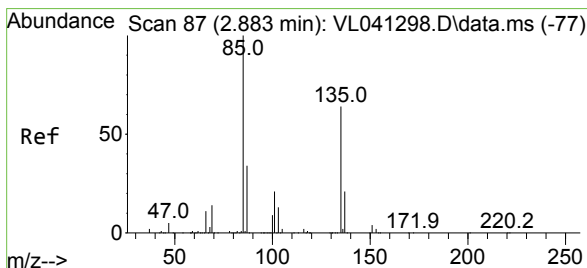
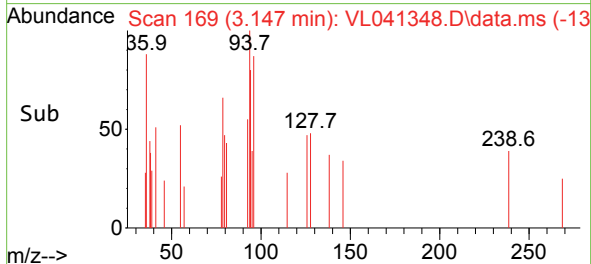
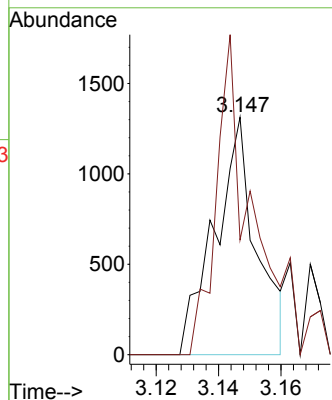
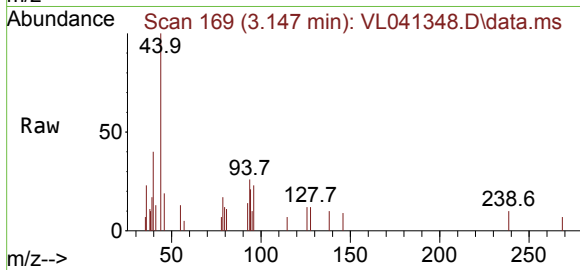




#6
Bromomethane
Concen: 0.052 ppbv
RT: 3.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

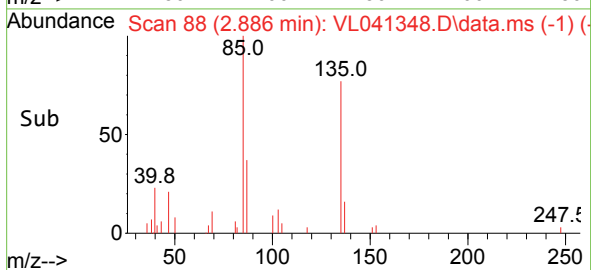
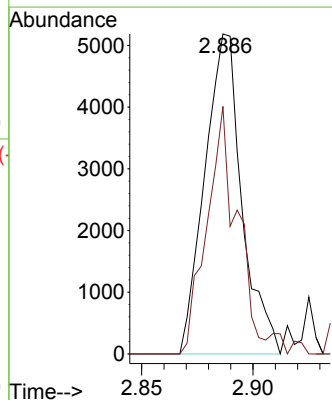
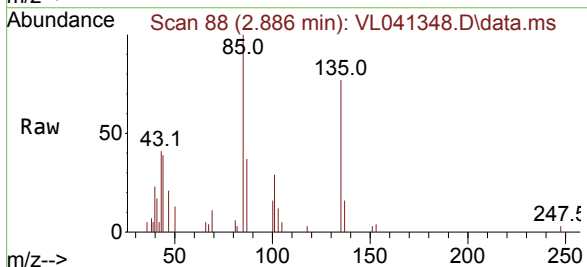
Instrument :
MSVOA_L
ClientSampleId :

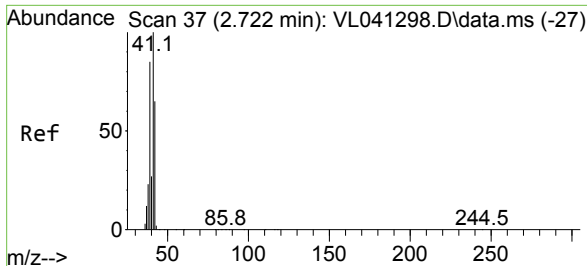
Tgt Ion: 94 Resp: 1215
Ion Ratio Lower Upper
94 100
96 48.4 78.6 117.8#



#8
Dichlorotetrafluoroethane
Concen: 0.037 ppbv
RT: 2.886 min Scan# 88
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 85 Resp: 6006
Ion Ratio Lower Upper
85 100
135 65.7 51.7 77.5

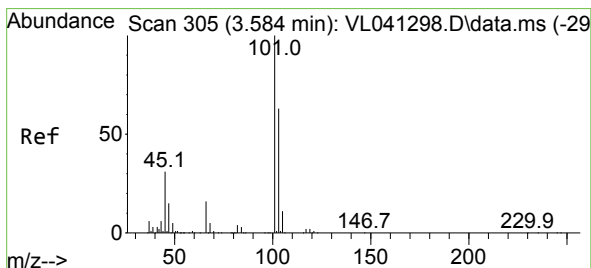
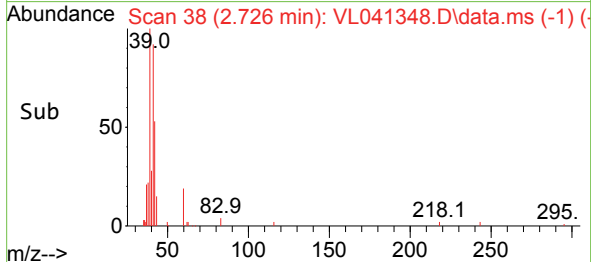
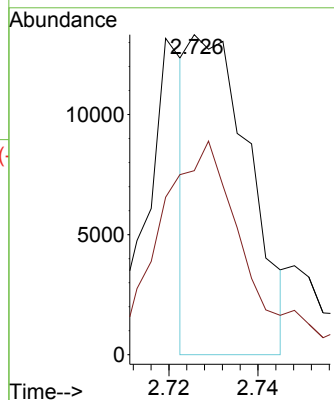
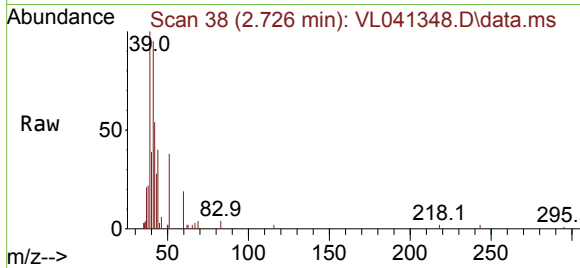




#9
Propene
Concen: 0.201 ppbv
RT: 2.726 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

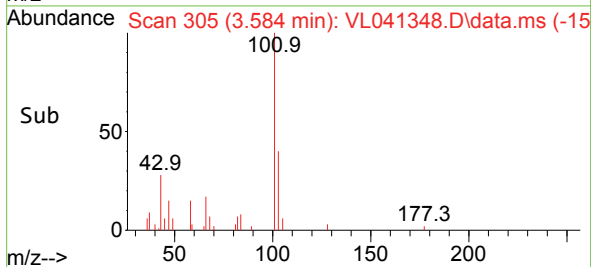
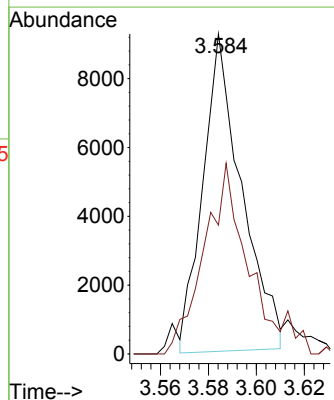
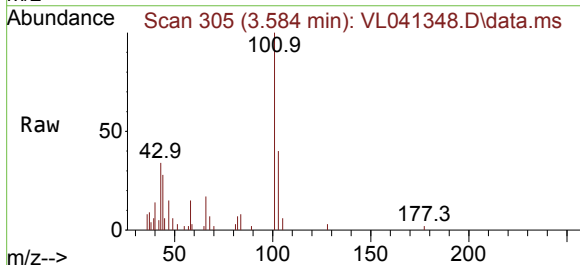
Instrument :
MSVOA_L
ClientSampleId :

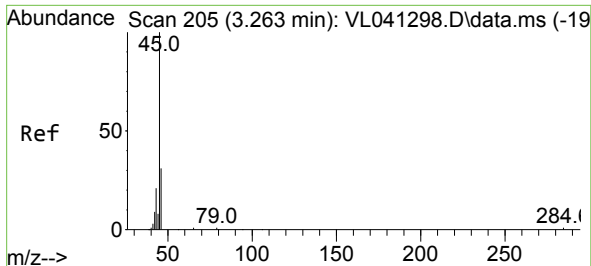
Tgt Ion: 41 Resp: 12477
Ion Ratio Lower Upper
41 100
42 102.4 55.2 82.8#



#11
Trichlorofluoromethane
Concen: 0.064 ppbv
RT: 3.584 min Scan# 305
Delta R.T. -0.003 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

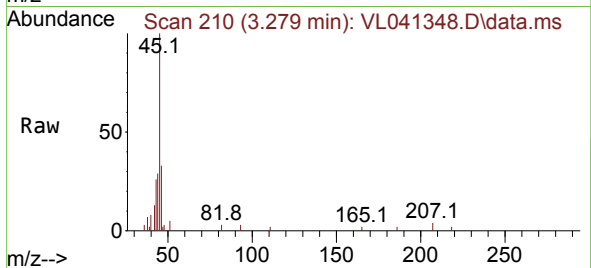
Tgt Ion:101 Resp: 10353
Ion Ratio Lower Upper
101 100
103 34.9 50.6 76.0#



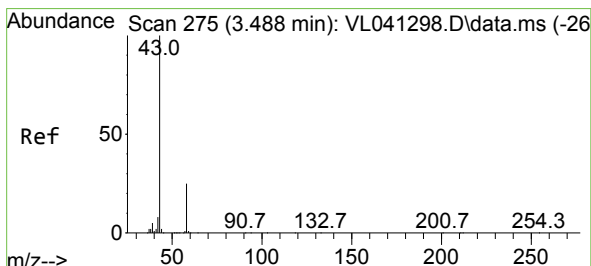
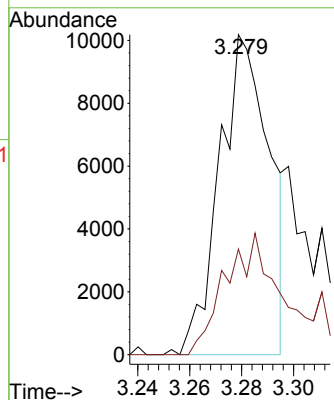
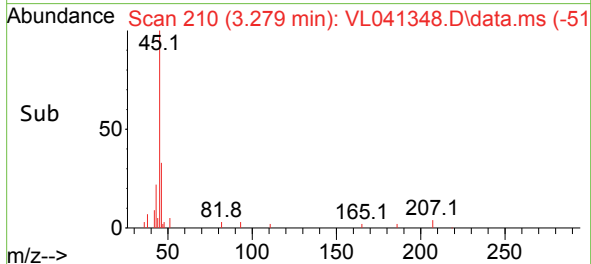


#13
Ethanol
Concen: 0.835 ppbv
RT: 3.279 min Scan# 210
Delta R.T. 0.010 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

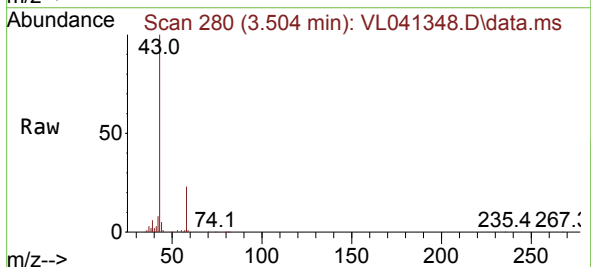
Instrument :
MSVOA_L
ClientSampleId :



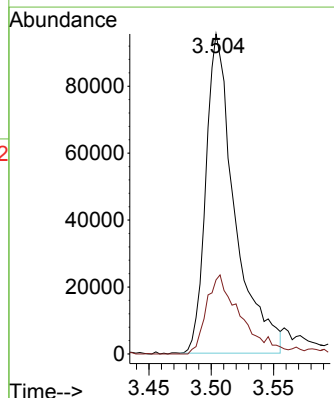
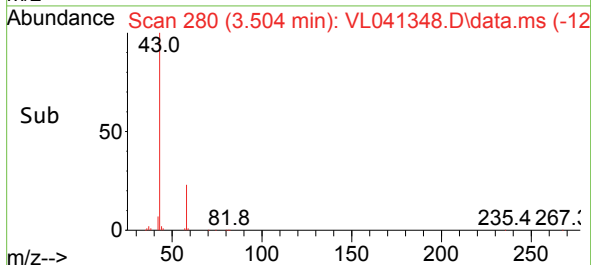
Tgt Ion: 45 Resp: 13483
Ion Ratio Lower Upper
45 100
46 46.7 14.2 56.6

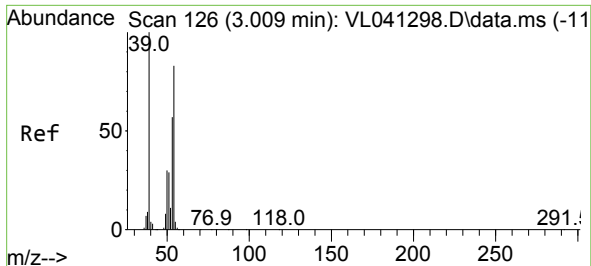


#15
Acetone
Concen: 1.221 ppbv
RT: 3.504 min Scan# 280
Delta R.T. 0.010 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34



Tgt Ion: 43 Resp: 153646
Ion Ratio Lower Upper
43 100
58 32.3 20.6 31.0#





#16

1,3-Butadiene

Concen: 0.251 ppbv

RT: 2.996 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL041348.D

Acq: 11 Jun 2024 15:34

Instrument :

MSVOA_L

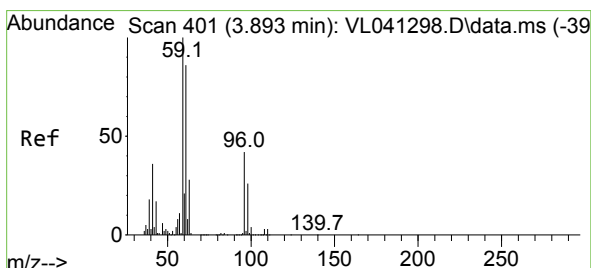
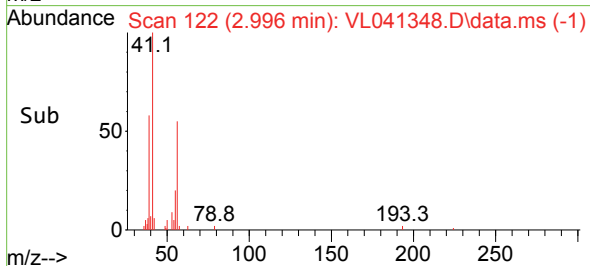
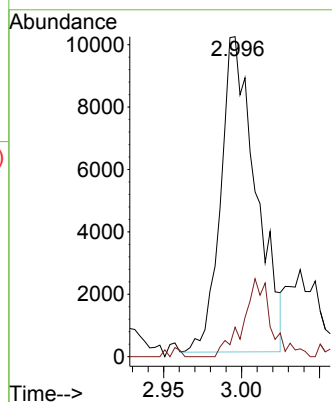
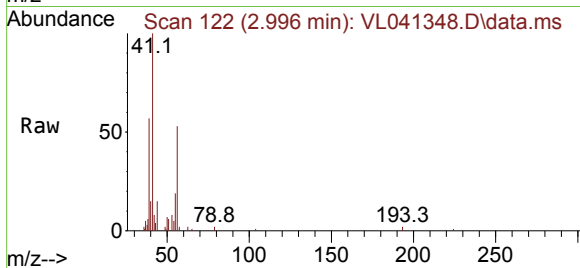
ClientSampleId :

Tgt Ion: 39 Resp: 15871

Ion Ratio Lower Upper

39 100

54 19.6 60.5 90.7#



#17

tert-Butyl alcohol

Concen: 0.060 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.026 min

Lab File: VL041348.D

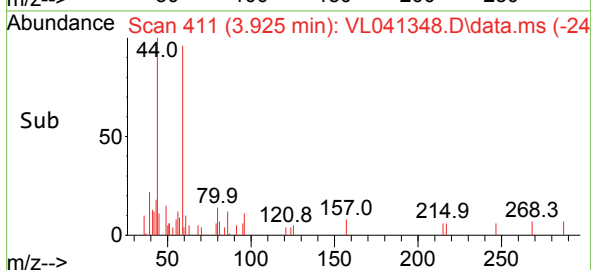
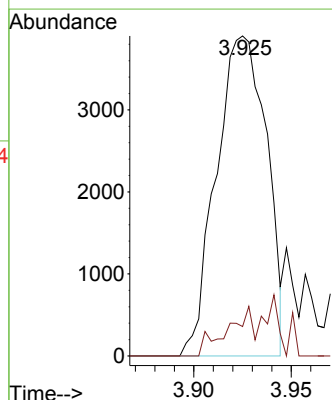
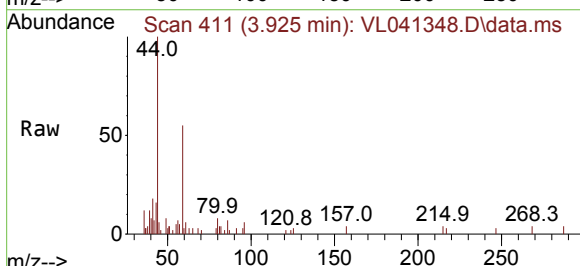
Acq: 11 Jun 2024 15:34

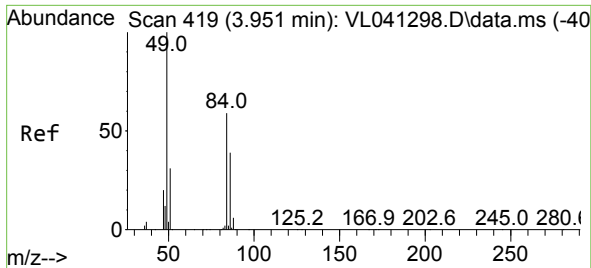
Tgt Ion: 59 Resp: 7008

Ion Ratio Lower Upper

59 100

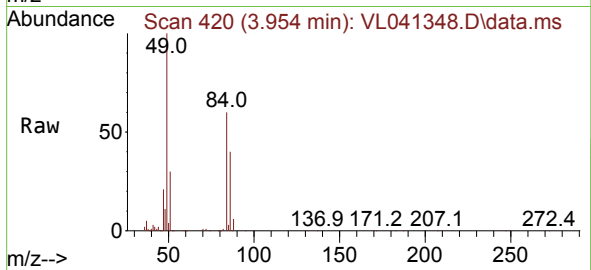
57 0.0 9.0 13.4#





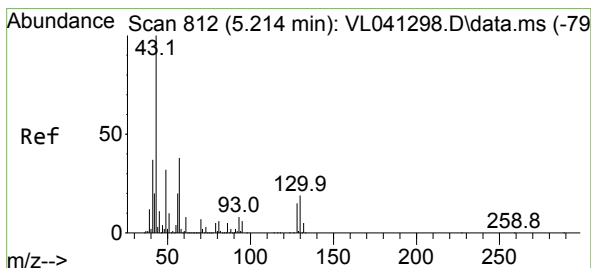
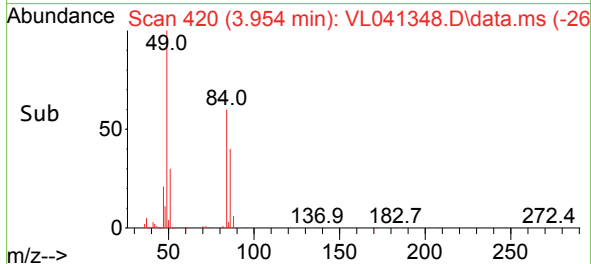
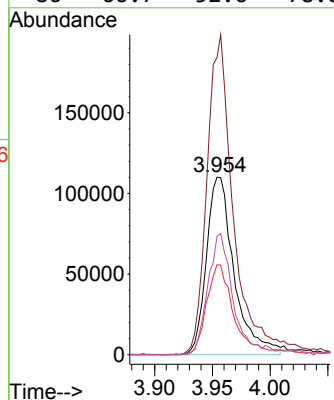
#20
Methylene Chloride
Concen: 4.027 ppbv
RT: 3.954 min Scan# 419
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion: 84 Resp: 184169

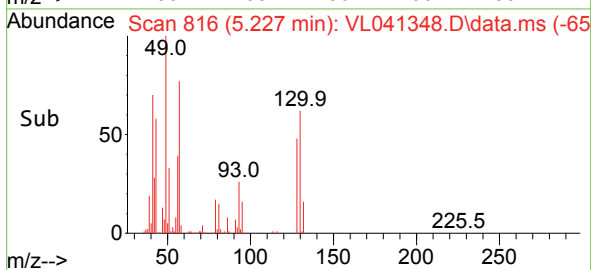
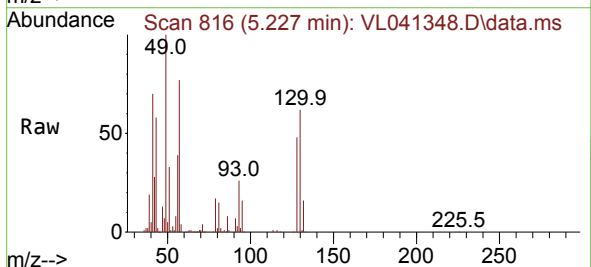
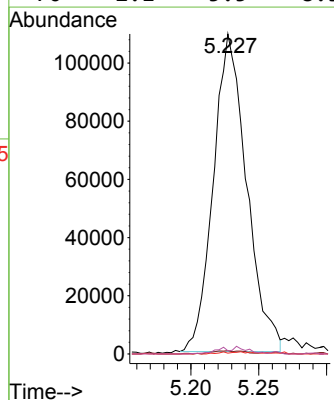
Ion	Ratio	Lower	Upper
84	100		
49	167.3	136.2	204.2
51	50.7	41.9	62.9
86	66.7	52.6	78.8

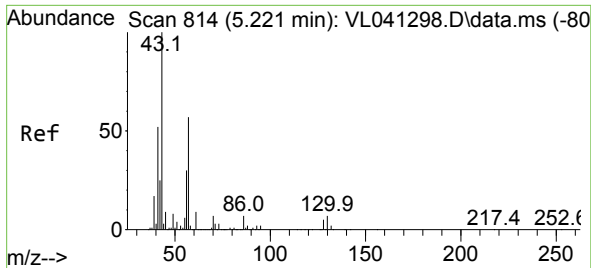


#25
Ethyl Acetate
Concen: 0.749 ppbv
RT: 5.227 min Scan# 816
Delta R.T. 0.007 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 43 Resp: 186476

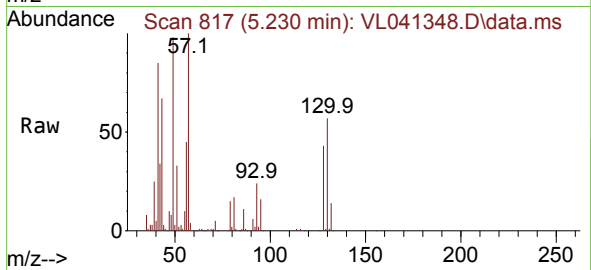
Ion	Ratio	Lower	Upper
43	100		
45	1.3	8.1	12.1#
61	0.4	7.4	11.0#
70	2.1	5.5	8.3#



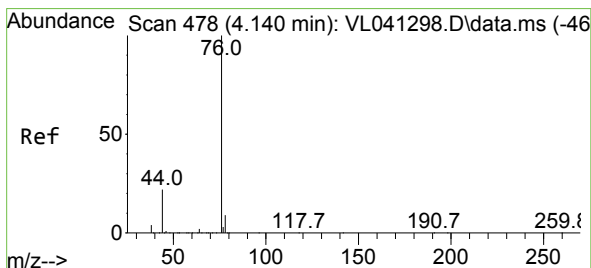
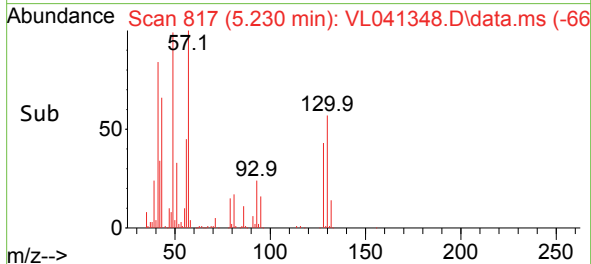
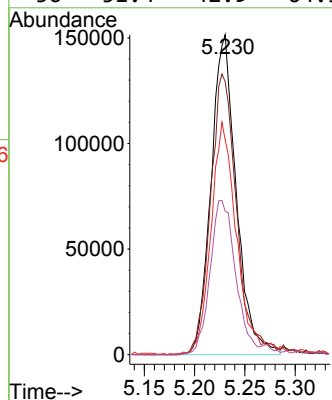


#26
Hexane
Concen: 2.366 ppbv
RT: 5.230 min Scan# 814
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :

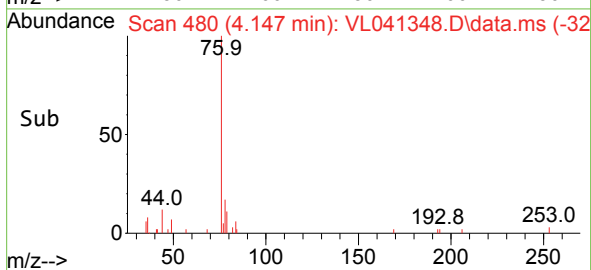
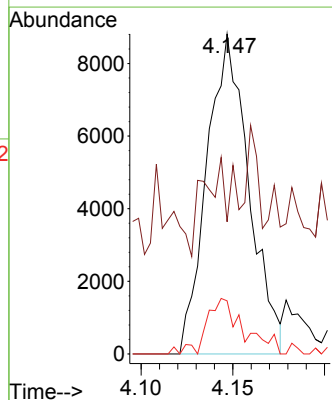
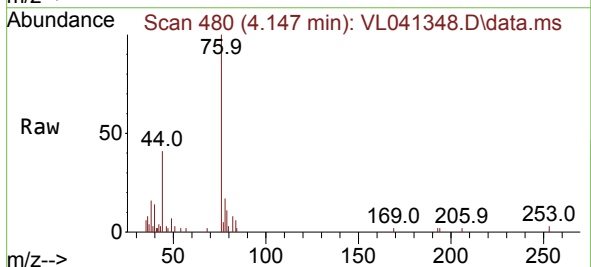


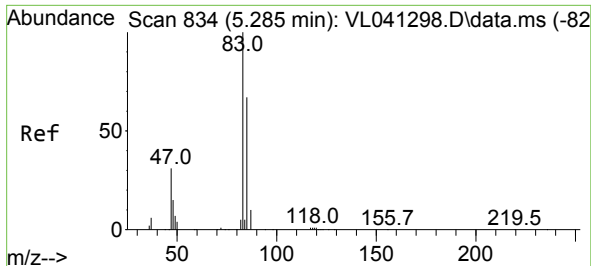
Tgt Ion: 57 Resp: 264826
Ion Ratio Lower Upper
57 100
41 93.0 77.1 115.7
43 76.3 186.1 279.1#
56 51.4 42.9 64.3



#27
Carbon Disulfide
Concen: 0.113 ppbv
RT: 4.147 min Scan# 480
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 76 Resp: 14016
Ion Ratio Lower Upper
76 100
44 50.8 17.7 26.5#
78 16.1 7.8 11.6#

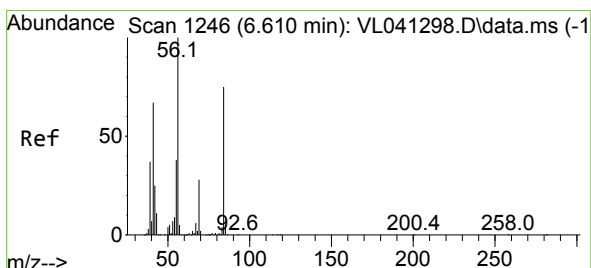
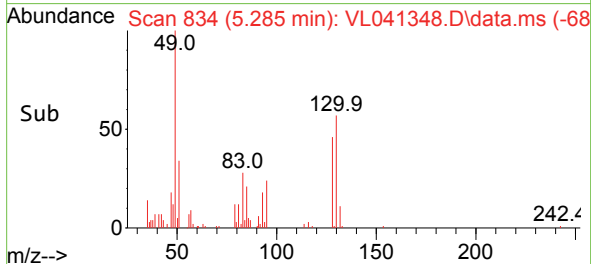
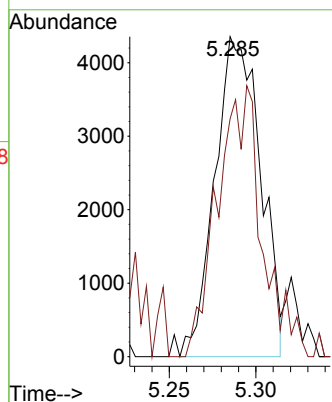
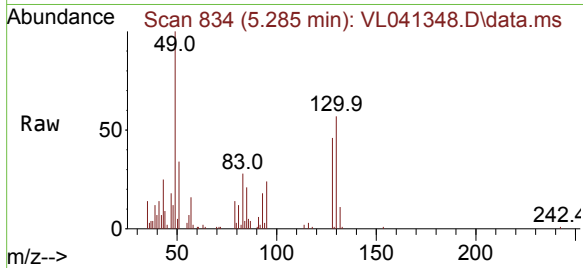




#29
Chloroform
Concen: 0.047 ppbv
RT: 5.285 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

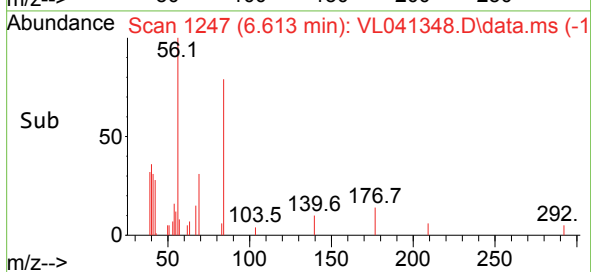
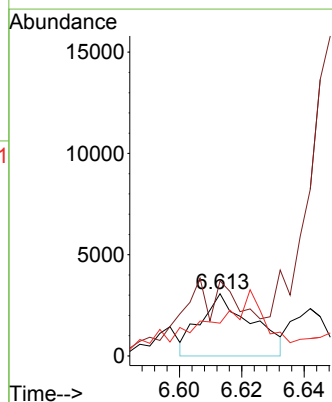
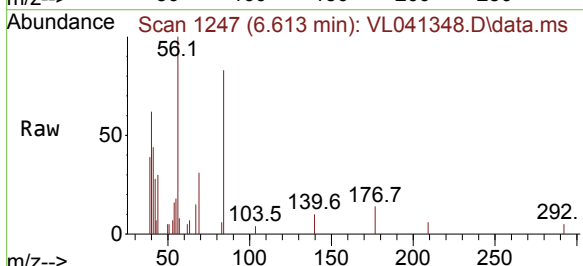
Instrument :
MSVOA_L
ClientSampleId :

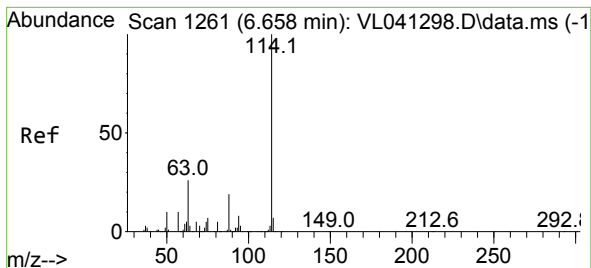
Tgt Ion: 83 Resp: 8007
Ion Ratio Lower Upper
83 100
85 74.3 53.3 79.9



#30
Cyclohexane
Concen: 0.039 ppbv
RT: 6.613 min Scan# 1247
Delta R.T. -0.003 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 84 Resp: 3500
Ion Ratio Lower Upper
84 100
56 0.0 114.9 172.3#
41 204.4 74.4 111.6#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.664 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL041348.D

Acq: 11 Jun 2024 15:34

Instrument :

MSVOA_L

ClientSampleId :

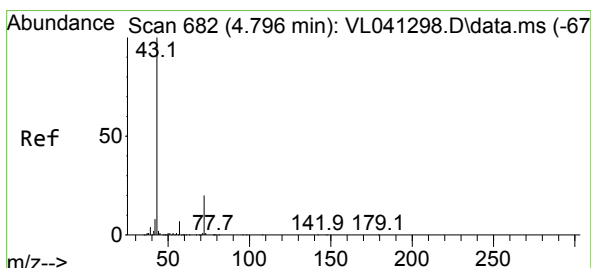
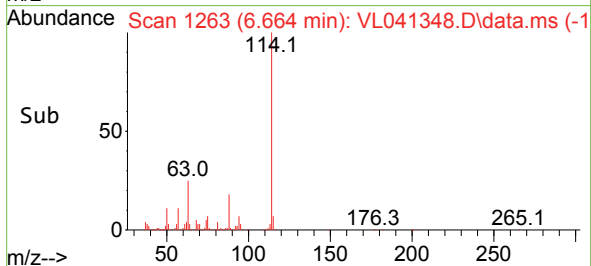
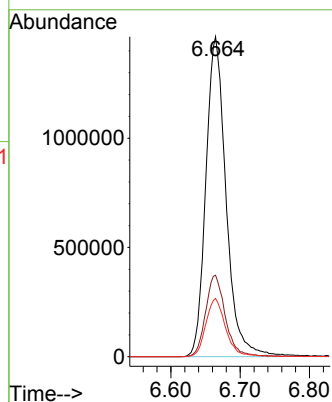
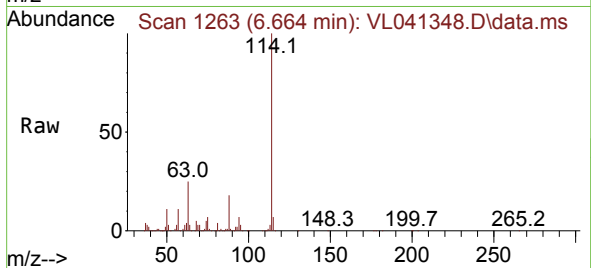
Tgt Ion:114 Resp: 2957083

Ion Ratio Lower Upper

114 100

63 25.2 20.6 30.8

88 18.0 14.5 21.7



#34

2-Butanone

Concen: 0.998 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.013 min

Lab File: VL041348.D

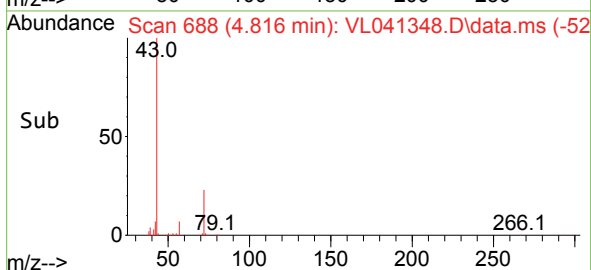
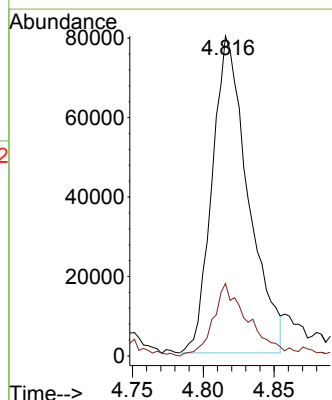
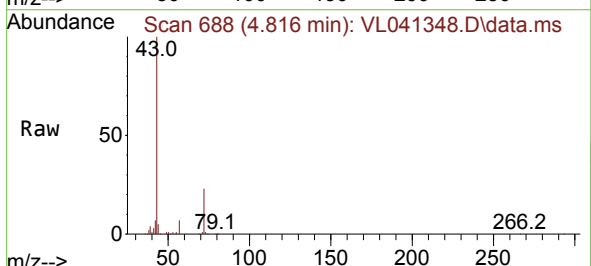
Acq: 11 Jun 2024 15:34

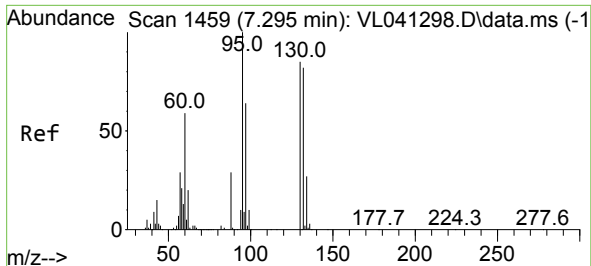
Tgt Ion: 43 Resp: 141424

Ion Ratio Lower Upper

43 100

72 25.1 17.4 26.0

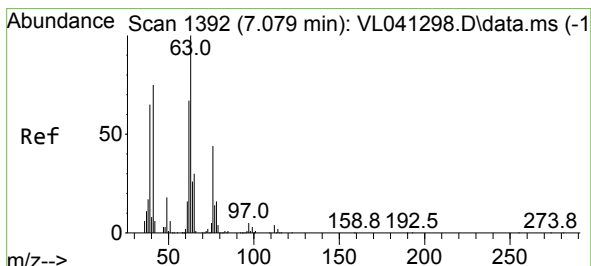
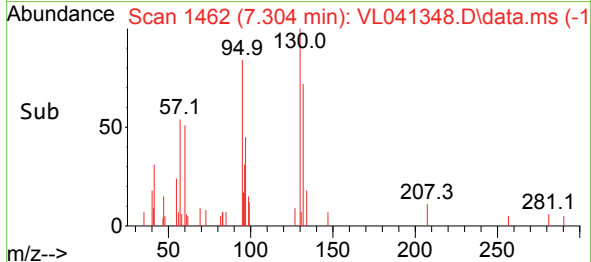
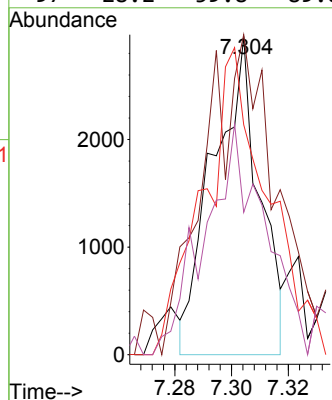
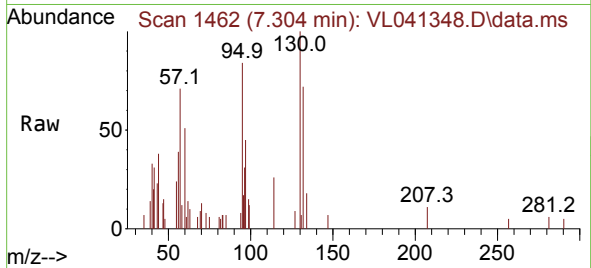




#38
 Trichloroethene
 Concen: 0.036 ppbv
 RT: 7.304 min Scan# 1459
 Delta R.T. 0.000 min
 Lab File: VL041348.D
 Acq: 11 Jun 2024 15:34

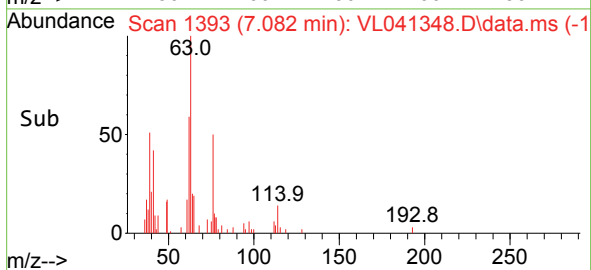
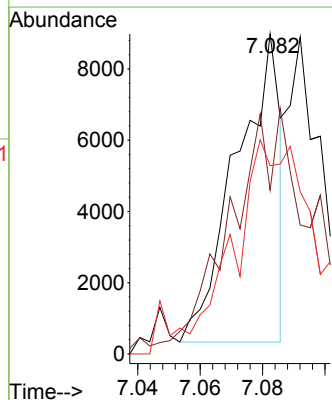
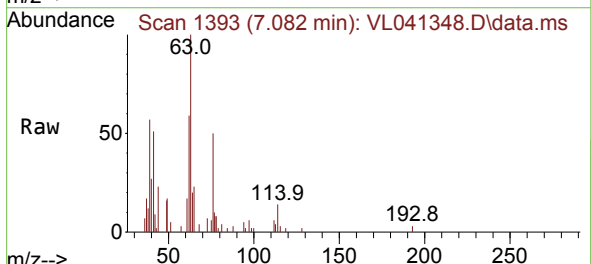
Instrument :
 MSVOA_L
 ClientSampleId :

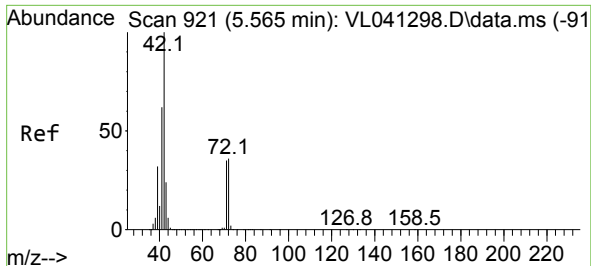
Tgt Ion:130 Resp: 3328
 Ion Ratio Lower Upper
 130 100
 95 69.3 94.0 141.0#
 132 45.1 76.7 115.1#
 97 28.2 59.8 89.8#



#39
 1,2-Dichloropropane
 Concen: 0.093 ppbv
 RT: 7.082 min Scan# 1393
 Delta R.T. -0.006 min
 Lab File: VL041348.D
 Acq: 11 Jun 2024 15:34

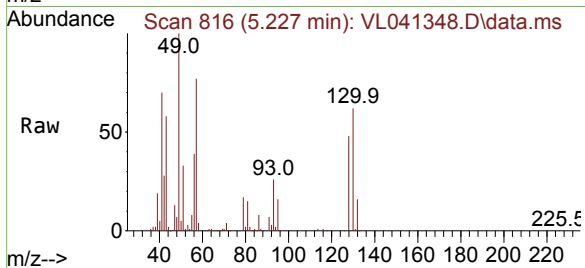
Tgt Ion: 63 Resp: 8507
 Ion Ratio Lower Upper
 63 100
 41 45.8 59.9 89.9#
 62 52.7 53.8 80.6#



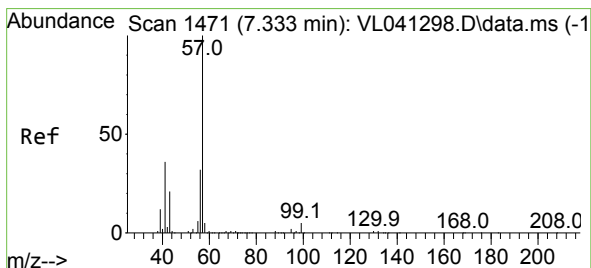
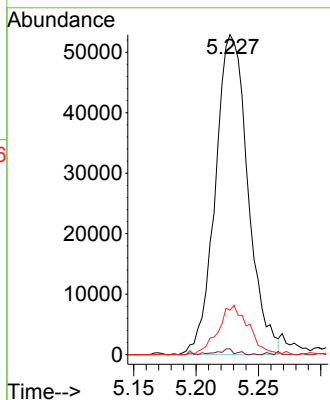
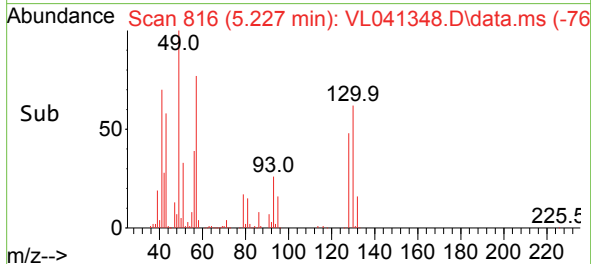


#41
Tetrahydrofuran
Concen: 1.046 ppbv
RT: 5.227 min Scan# 81
Delta R.T. -0.347 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Instrument :
MSVOA_L
ClientSampleId :

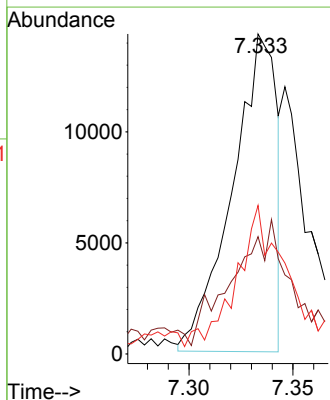
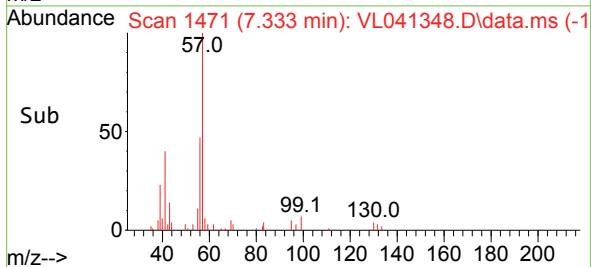
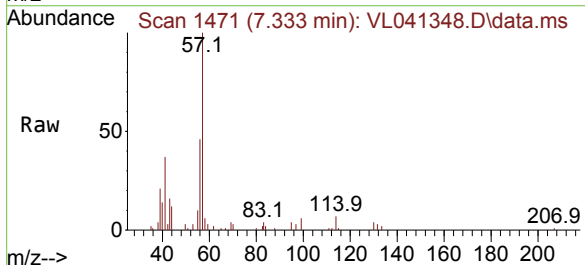


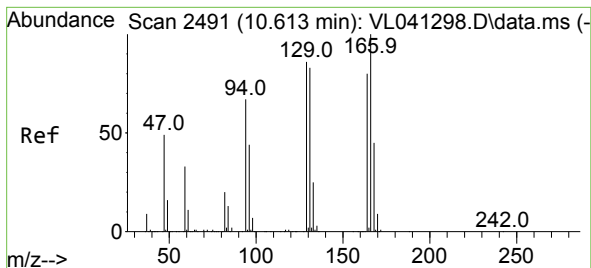
Tgt Ion: 42 Resp: 96444
Ion Ratio Lower Upper
42 100
72 1.1 30.2 45.4#
71 15.0 30.3 45.5#



#44
2,2,4-Trimethylpentane
Concen: 0.054 ppbv
RT: 7.333 min Scan# 1471
Delta R.T. -0.006 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 57 Resp: 21154
Ion Ratio Lower Upper
57 100
41 0.0 29.4 44.2#
56 58.1 25.0 37.4#





#52

Tetrachloroethene

Concen: 2.942 ppbv

RT: 10.622 min Scan# 2494

Delta R.T. -0.003 min

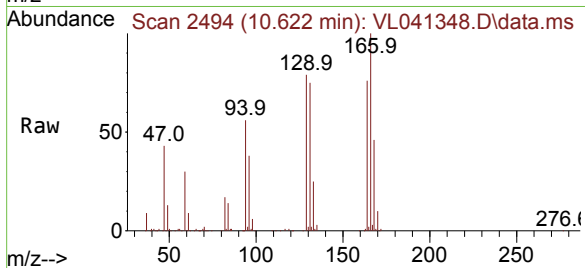
Lab File: VL041348.D

Acq: 11 Jun 2024 15:34

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 245917

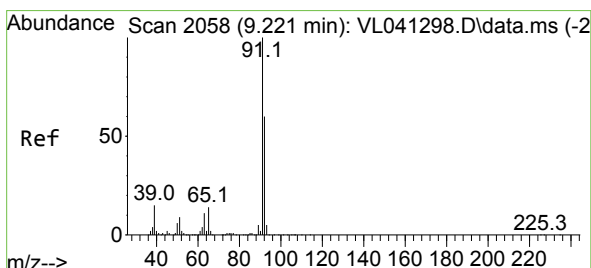
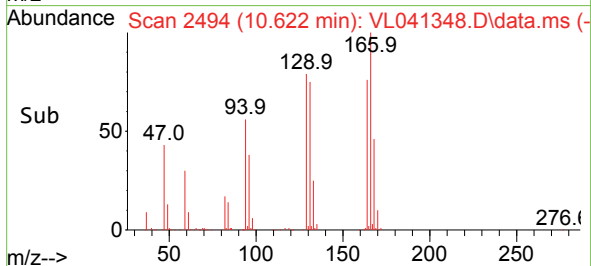
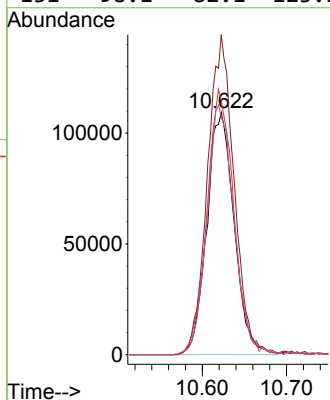
Ion Ratio Lower Upper

164 100

166 131.9 99.4 149.0

129 105.0 85.4 128.2

131 98.1 82.1 123.1



#53

Toluene

Concen: 0.043 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.003 min

Lab File: VL041348.D

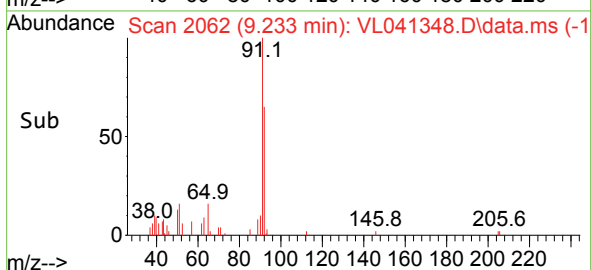
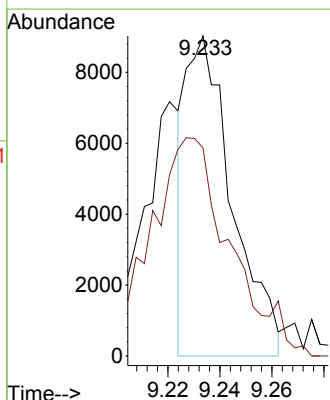
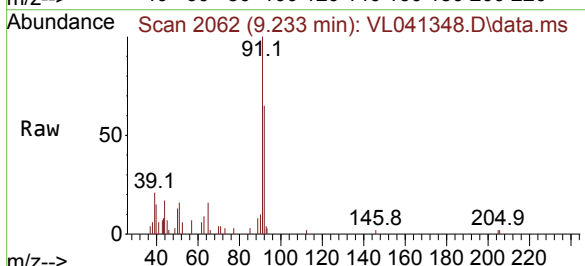
Acq: 11 Jun 2024 15:34

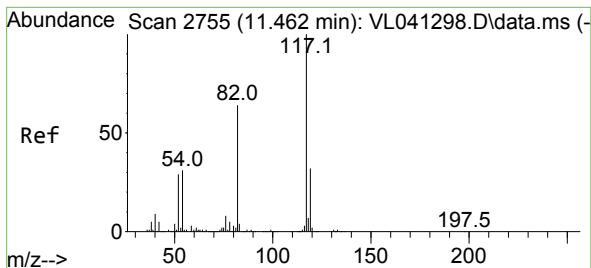
Tgt Ion: 91 Resp: 11256

Ion Ratio Lower Upper

91 100

92 117.6 49.2 73.8#

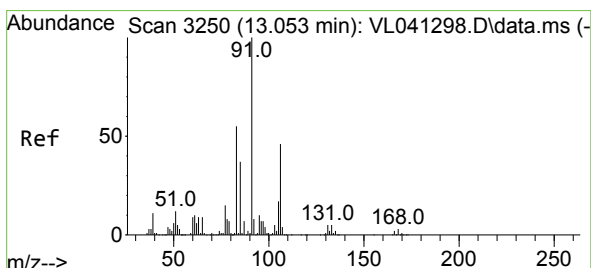
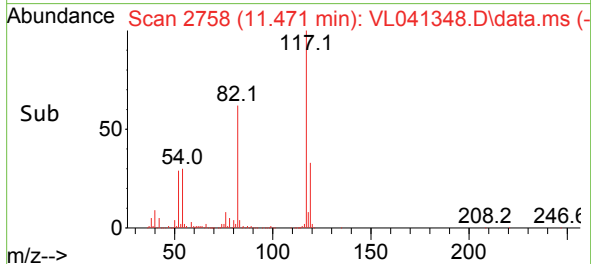
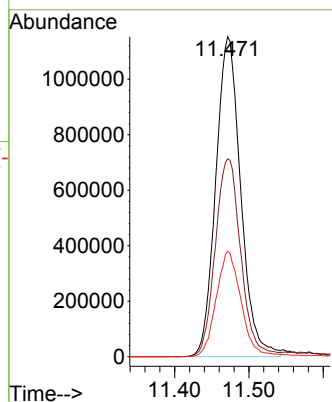
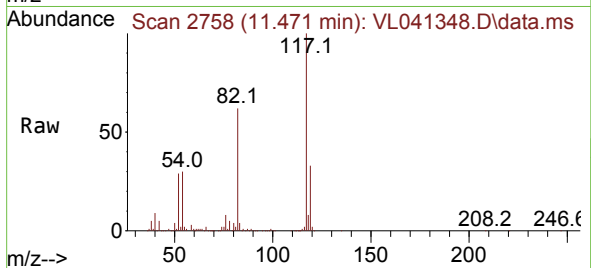




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

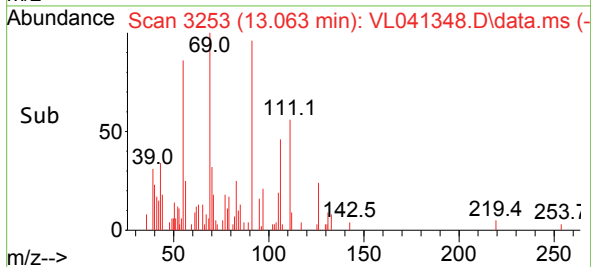
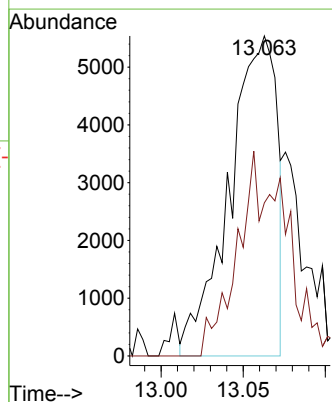
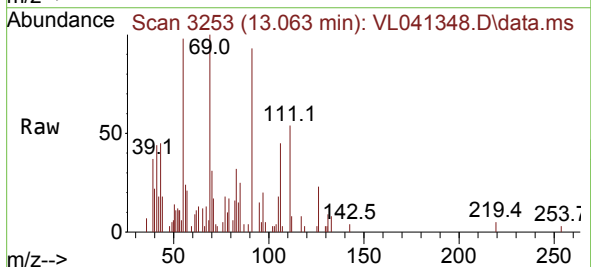
Instrument :
MSVOA_L
ClientSampleId :

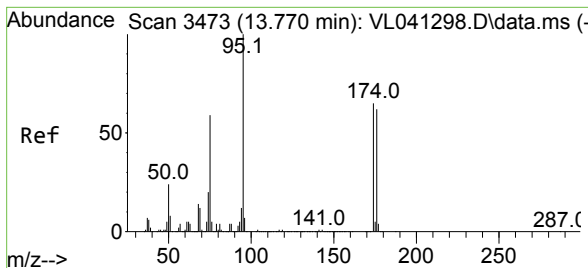
Tgt Ion:117 Resp: 2694810
Ion Ratio Lower Upper
117 100
82 65.7 52.3 78.5
119 33.1 26.2 39.2



#60
o-Xylene
Concen: 0.040 ppbv
RT: 13.063 min Scan# 3253
Delta R.T. -0.003 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 91 Resp: 11177
Ion Ratio Lower Upper
91 100
106 66.9 22.8 68.4

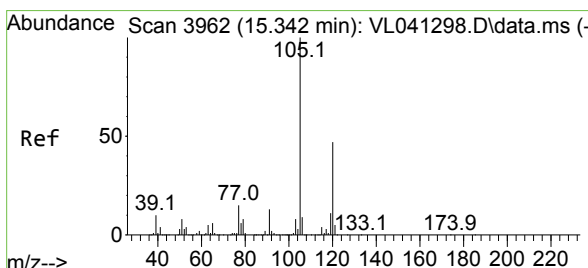
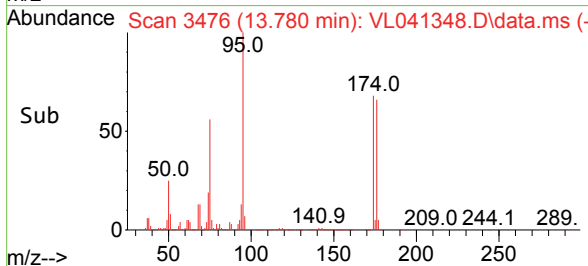
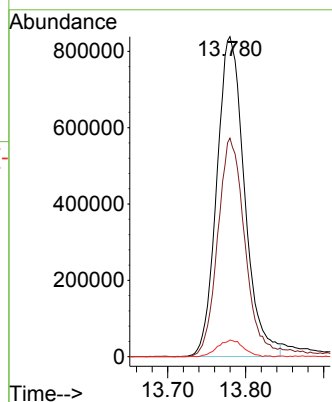
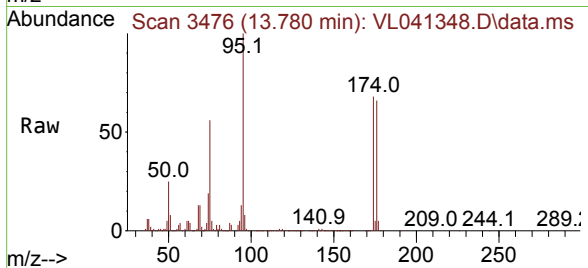




#68
1-Bromo-4-Fluorobenzene
Concen: 9.952 ppbv
RT: 13.780 min Scan# 3476
Delta R.T. 0.000 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

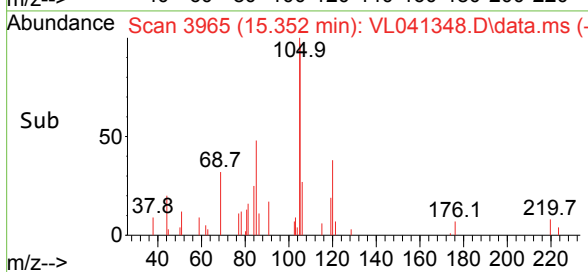
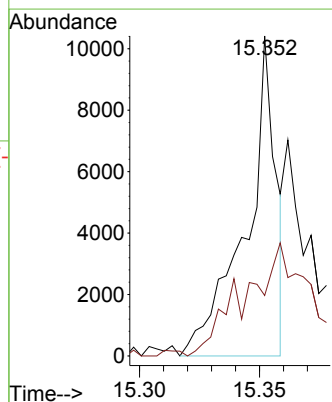
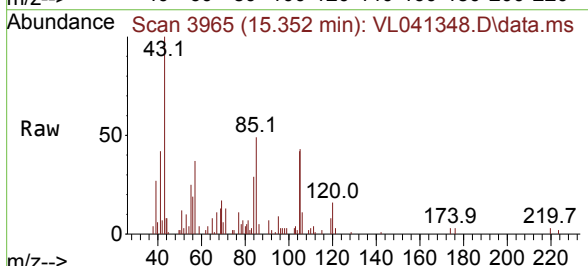
Instrument :
MSVOA_L
ClientSampleId :

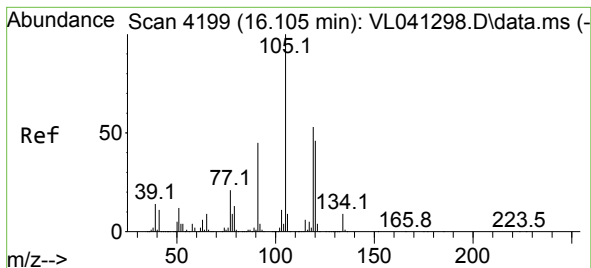
Tgt Ion: 95 Resp: 2070730
Ion Ratio Lower Upper
95 100
174 70.7 52.2 78.2
175 4.9 4.1 6.1



#73
1,3,5-Trimethylbenzene
Concen: 0.031 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. -0.006 min
Lab File: VL041348.D
Acq: 11 Jun 2024 15:34

Tgt Ion: 105 Resp: 8983
Ion Ratio Lower Upper
105 100
120 17.4 37.8 56.8#





#74

1,2,4-Trimethylbenzene

Concen: 0.044 ppbv

RT: 16.114 min Scan# 41

Delta R.T. 0.003 min

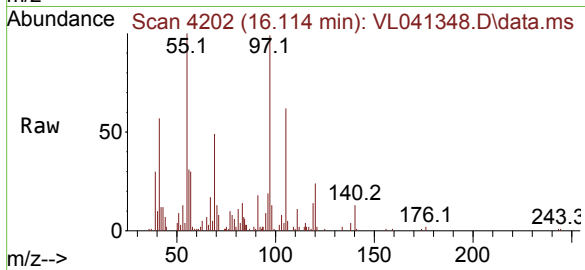
Lab File: VL041348.D

Acq: 11 Jun 2024 15:34

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 14177

Ion Ratio Lower Upper

105 100

120 21.9 37.0 55.6#

91 47.1 36.2 54.4

77 0.0 16.6 24.8#

