

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL082124\
 Data File : VL041569.D
 Acq On : 21 Aug 2024 16:15
 Operator : SY/MD
 Sample : P3709-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 22 15:46:40 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Aug 22 01:05:17 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	985560	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2599985	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2331006	10.000	ppbv	# 0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1795895	10.011	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%

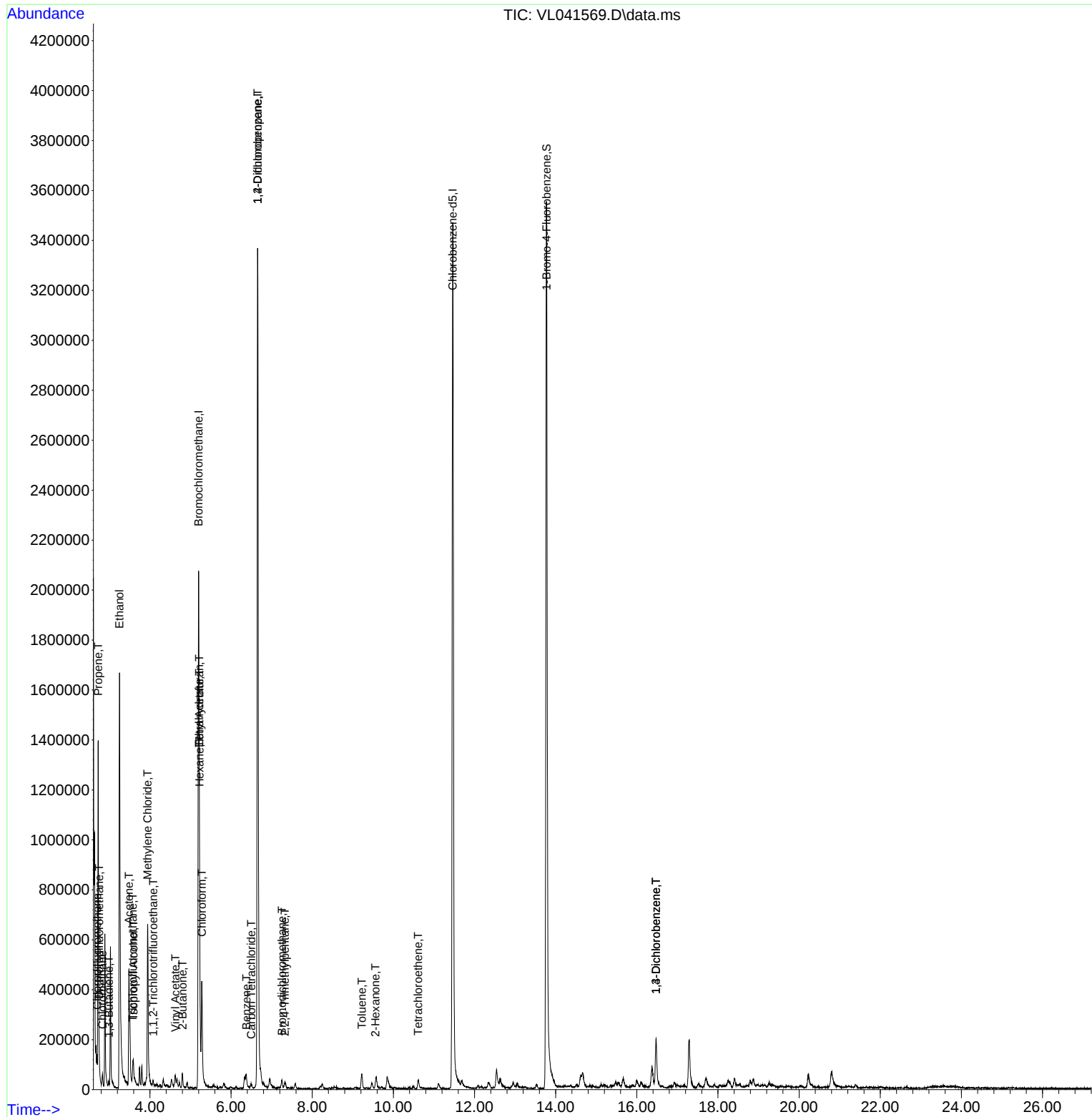
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.748	85	32230	0.190	ppbv	99
3) Chlorodifluoromethane	2.693	51	138086	1.177	ppbv #	83
4) Chloromethane	2.832	50	37519	0.601	ppbv	95
9) Propene	2.726	41	255351	4.738	ppbv #	64
11) Trichlorofluoromethane	3.574	101	35582	0.236	ppbv #	76
12) 1,1,2-Trichlorotrifluo...	4.082	101	4080	0.038	ppbv #	11
13) Ethanol	3.250	45	1749419	363.161	ppbv	96
15) Acetone	3.484	43	502495	4.487	ppbv	98
16) 1,3-Butadiene	2.986	39	6934	0.116	ppbv #	10
19) Isopropyl Alcohol	3.594	45	77955	1.191	ppbv #	87
20) Methylene Chloride	3.944	84	218872	5.241	ppbv	97
23) Vinyl Acetate	4.629	43	22776	0.266	ppbv #	81
25) Ethyl Acetate	5.217	43	171806	0.772	ppbv #	82
26) Hexane	5.221	57	224221	2.430	ppbv #	41
29) Chloroform	5.279	83	259042	1.721	ppbv	91
34) 2-Butanone	4.803	43	63570	0.505	ppbv	94
35) Carbon Tetrachloride	6.494	117	7758	0.054	ppbv #	78
36) Benzene	6.378	78	31682	0.167	ppbv #	88
39) 1,2-Dichloropropane	6.655	63	640018	8.799	ppbv #	25
41) Tetrahydrofuran	5.217	42	92172	1.281	ppbv #	49
42) Bromodichloromethane	7.253	83	18190	0.118	ppbv #	88
44) 2,2,4-Trimethylpentane	7.327	57	10513	0.033	ppbv #	5
51) 2-Hexanone	9.558	43	9925	0.066	ppbv #	30
52) Tetrachloroethene	10.609	164	2427	0.033	ppbv #	72
53) Toluene	9.224	91	22215	0.105	ppbv #	36
75) 1,3-Dichlorobenzene	16.474	146	83638	0.514	ppbv	90
76) 1,4-Dichlorobenzene	16.474	146	83638	0.531	ppbv	91

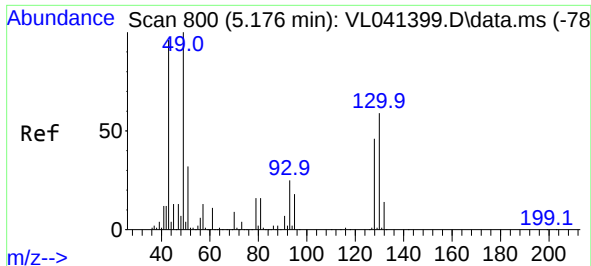
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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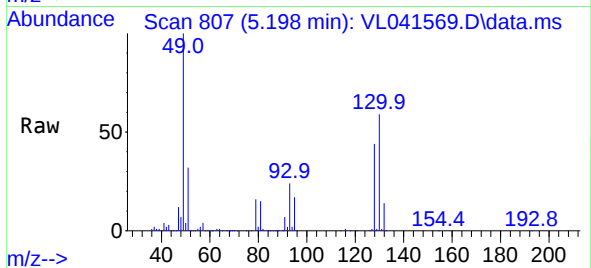
Quant Time: Aug 22 15:46:40 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Aug 22 01:05:17 2024
Response via : Initial Calibration



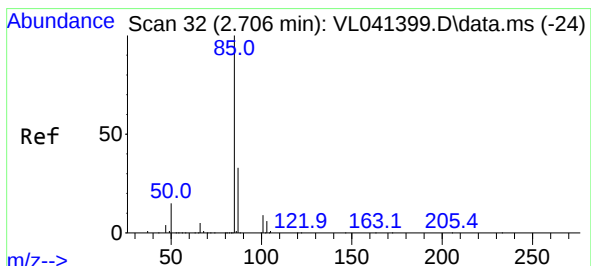
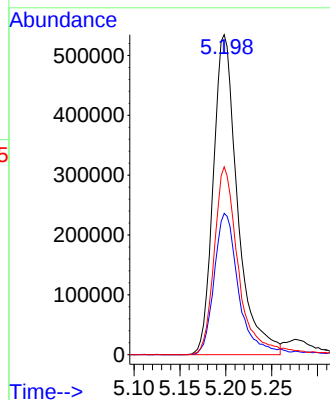
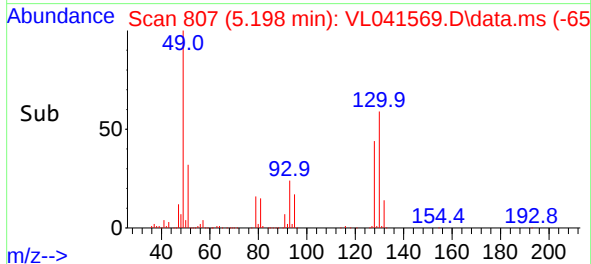


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Instrument :
MSVOA_L
ClientSampleId :

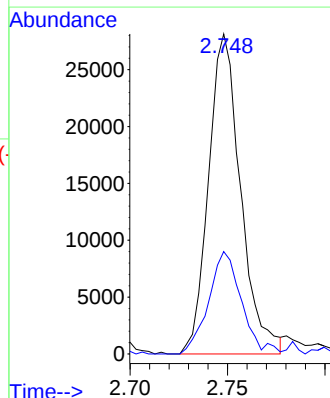
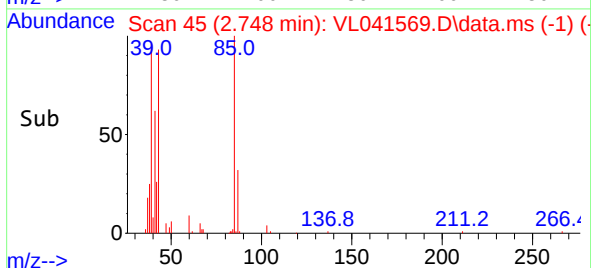
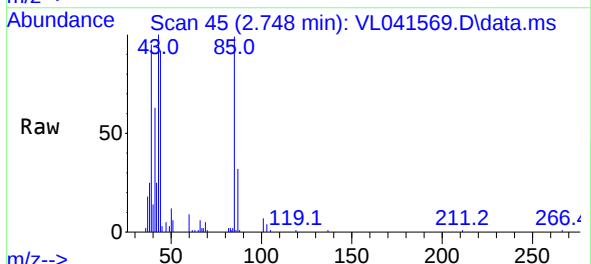


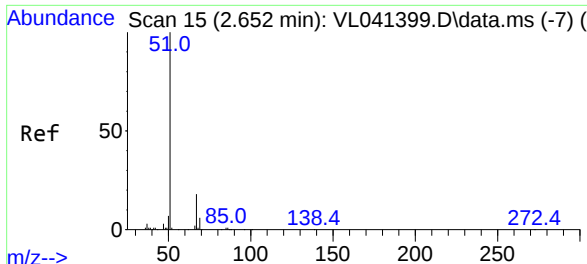
Tgt Ion: 49 Resp: 985560
Ion Ratio Lower Upper
49 100
128 45.8 23.8 71.4
130 59.7 30.8 92.4



#2
Dichlorodifluoromethane
Concen: 0.190 ppbv
RT: 2.748 min Scan# 45
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 85 Resp: 32230
Ion Ratio Lower Upper
85 100
87 32.0 26.0 39.0

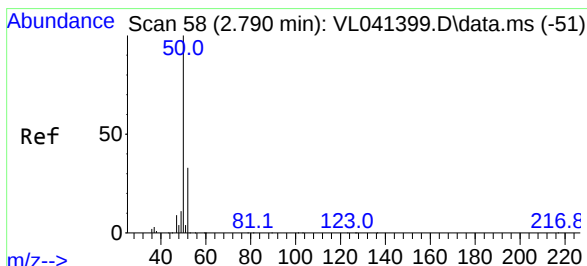
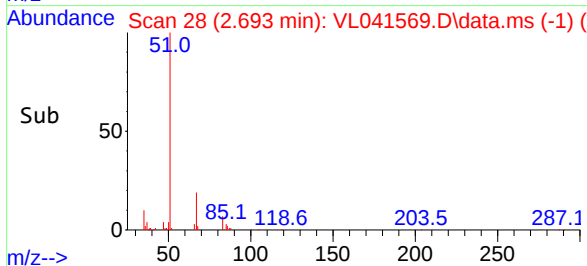
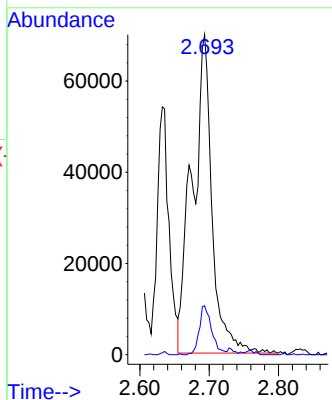
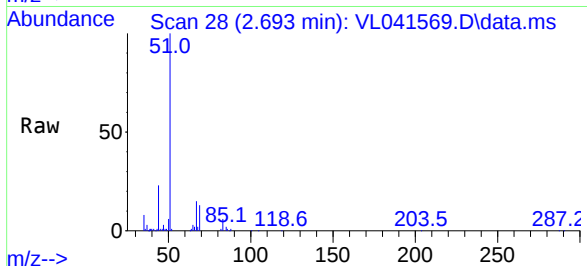




#3
Chlorodifluoromethane
Concen: 1.177 ppbv
RT: 2.693 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

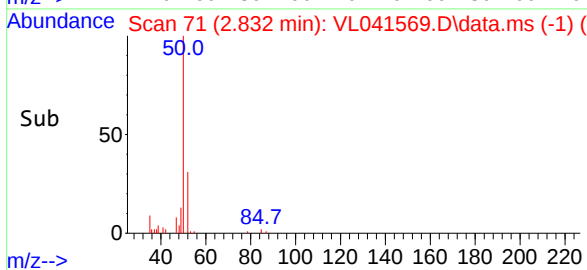
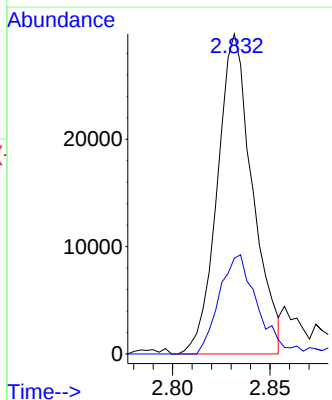
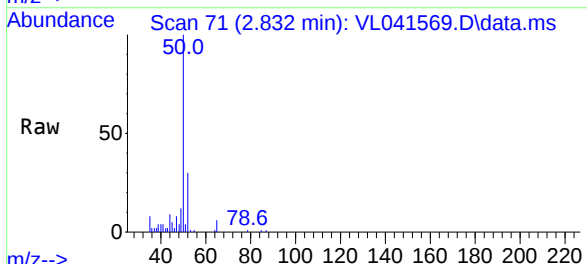
Instrument :
MSVOA_L
ClientSampleId :

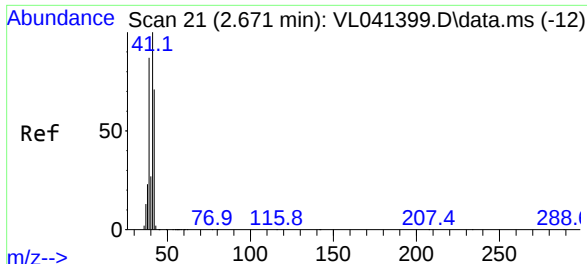
Tgt Ion: 51 Resp: 138086
Ion Ratio Lower Upper
51 100
67 10.5 14.5 21.7#



#4
Chloromethane
Concen: 0.601 ppbv
RT: 2.832 min Scan# 71
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 50 Resp: 37519
Ion Ratio Lower Upper
50 100
52 30.0 26.1 39.1

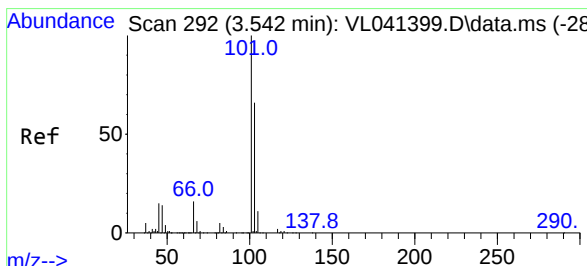
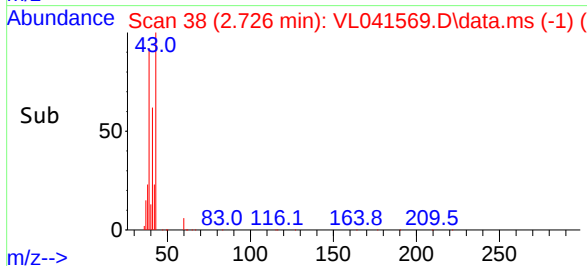
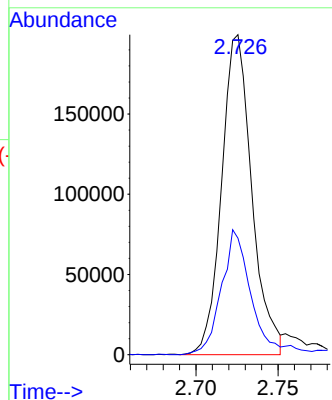
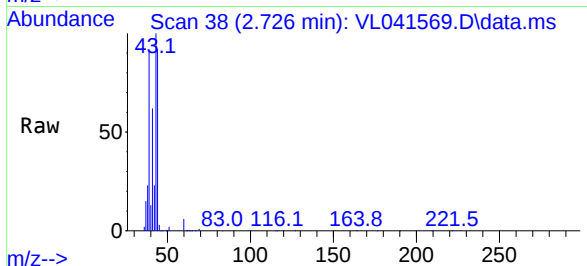




#9
Propene
Concen: 4.738 ppbv
RT: 2.726 min Scan# 31
Delta R.T. 0.019 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

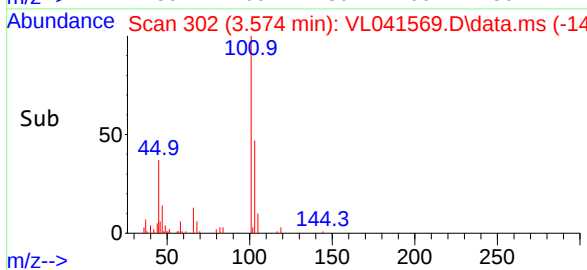
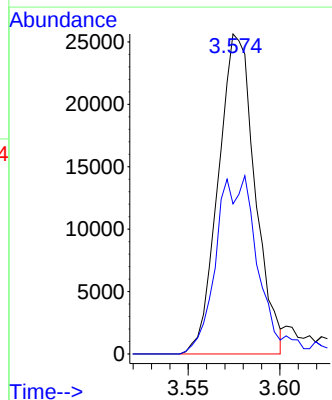
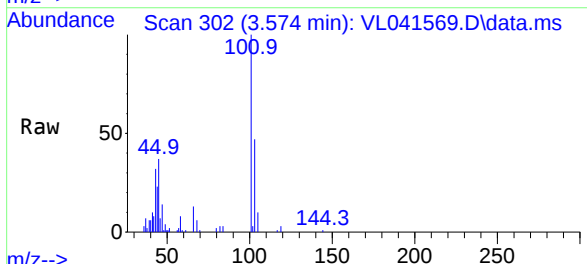
Instrument :
MSVOA_L
ClientSampleId :

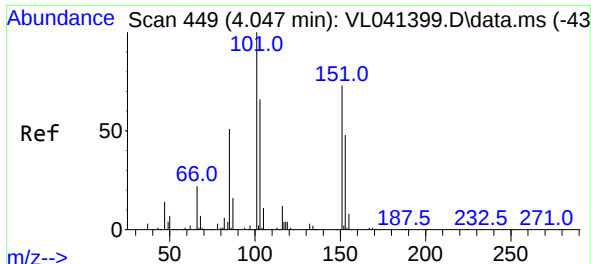
Tgt Ion: 41 Resp: 255351
Ion Ratio Lower Upper
41 100
42 40.3 55.9 83.9#



#11
Trichlorofluoromethane
Concen: 0.236 ppbv
RT: 3.574 min Scan# 302
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 101 Resp: 35582
Ion Ratio Lower Upper
101 100
103 46.9 52.6 79.0#

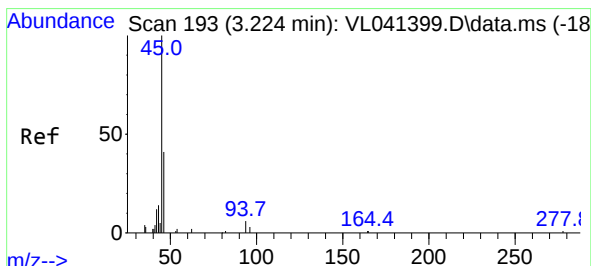
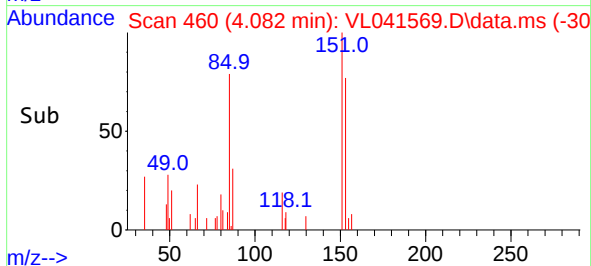
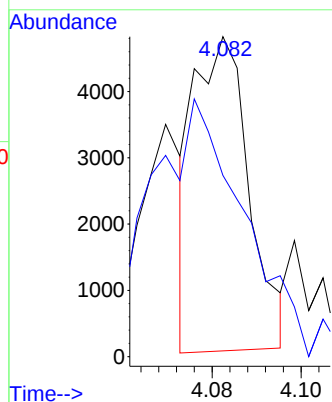
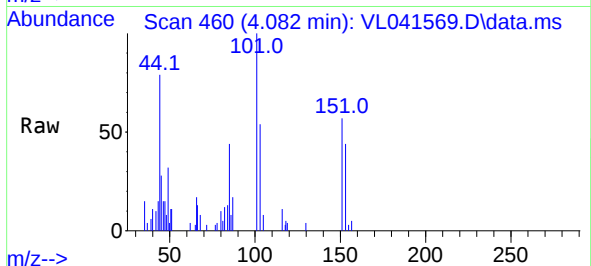




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.038 ppbv
RT: 4.082 min Scan# 4080
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

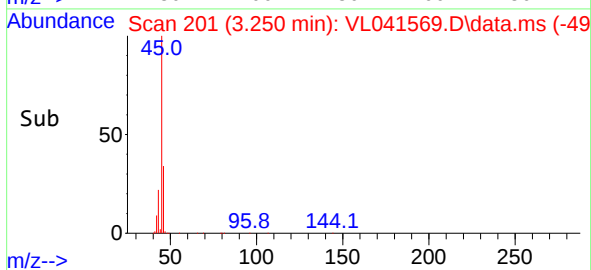
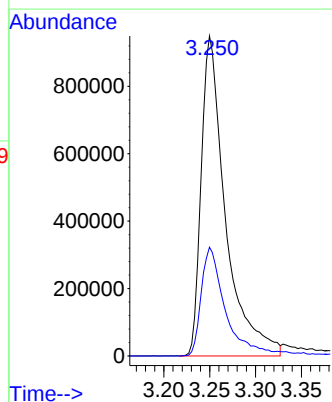
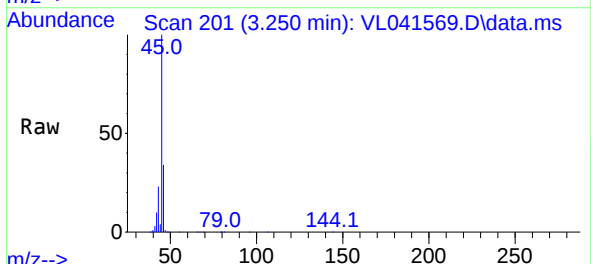
Instrument :
MSVOA_L
ClientSampleId :

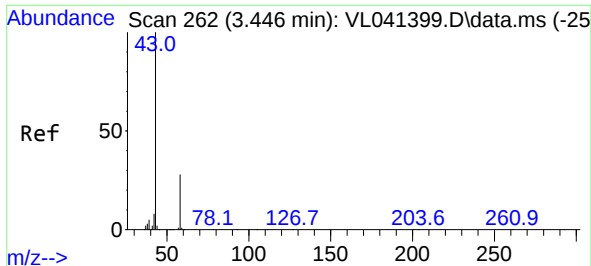
Tgt Ion:101 Resp: 4080
Ion Ratio Lower Upper
101 100
151 150.1 59.4 89.2#



#13
Ethanol
Concen: 363.161 ppbv
RT: 3.250 min Scan# 201
Delta R.T. -0.010 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 45 Resp: 1749419
Ion Ratio Lower Upper
45 100
46 35.6 13.4 53.4

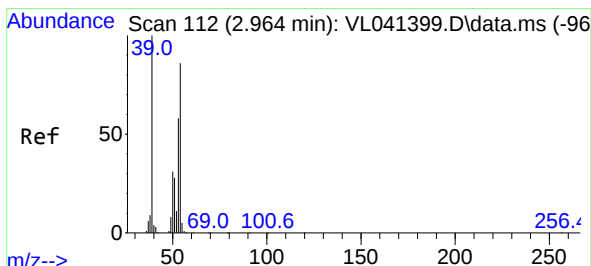
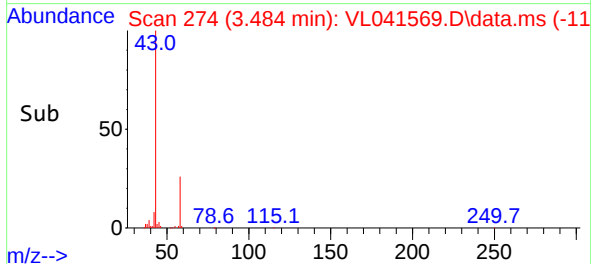
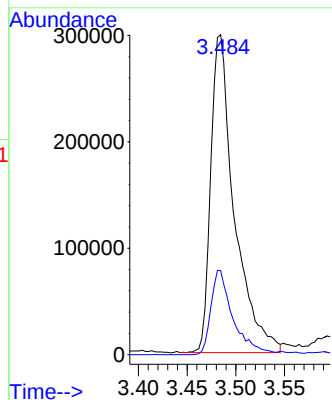
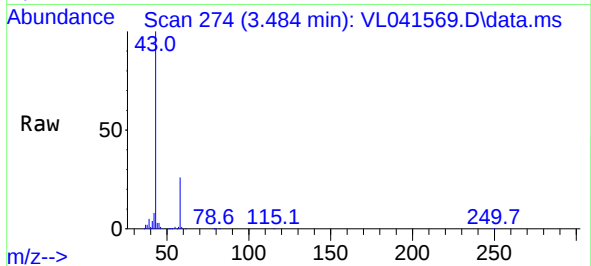




#15
Acetone
Concen: 4.487 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

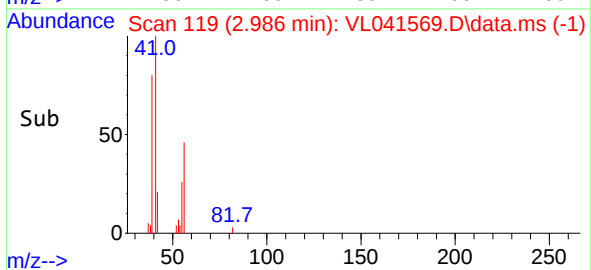
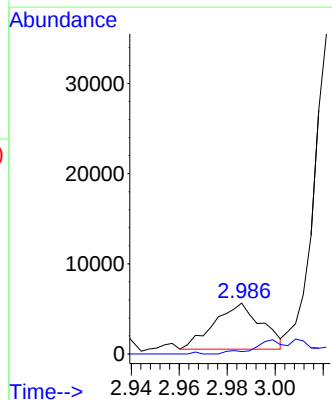
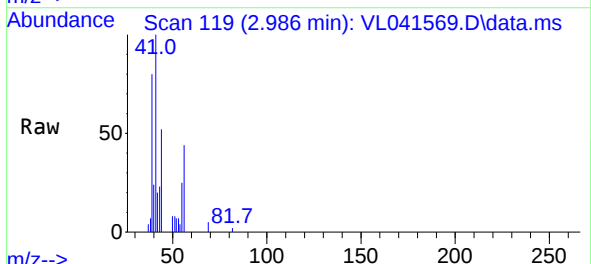
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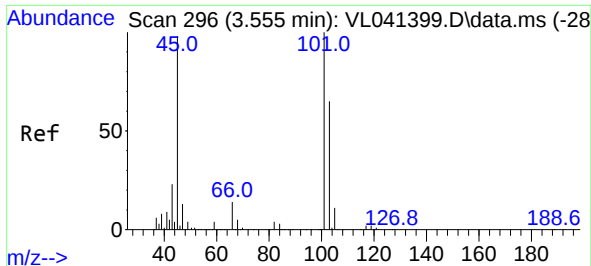
Tgt Ion: 43 Resp: 502495
Ion Ratio Lower Upper
43 100
58 25.6 21.4 32.2



#16
1,3-Butadiene
Concen: 0.116 ppbv
RT: 2.986 min Scan# 119
Delta R.T. -0.010 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 39 Resp: 6934
Ion Ratio Lower Upper
39 100
54 0.0 62.5 93.7#





#19

Isopropyl Alcohol

Concen: 1.191 ppbv

RT: 3.594 min Scan# 308

Delta R.T. 0.010 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Instrument :

MSVOA_L

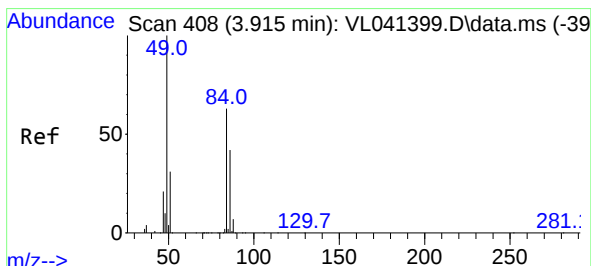
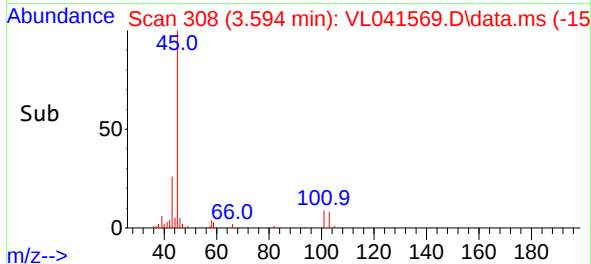
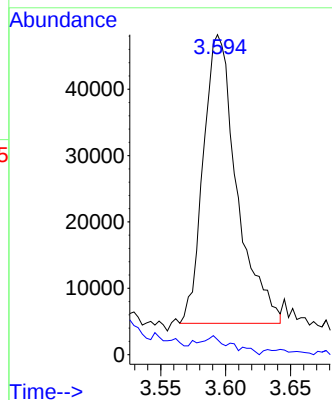
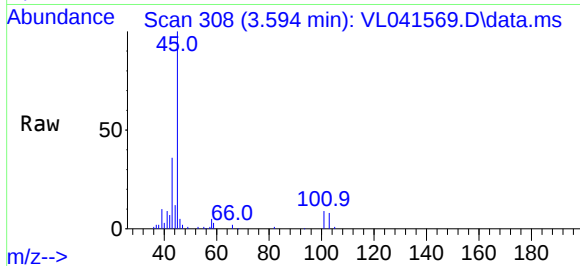
ClientSampleId :

Tgt Ion: 45 Resp: 77955

Ion Ratio Lower Upper

45 100

58 6.8 1.9 2.9#



#20

Methylene Chloride

Concen: 5.241 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.003 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Tgt Ion: 84 Resp: 218872

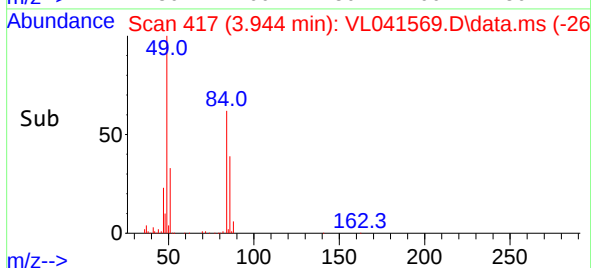
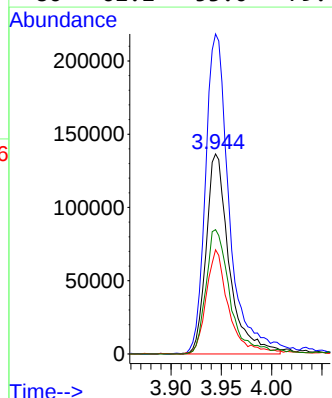
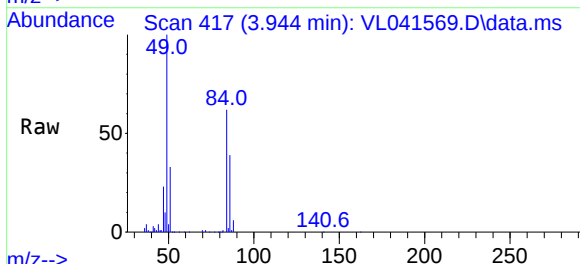
Ion Ratio Lower Upper

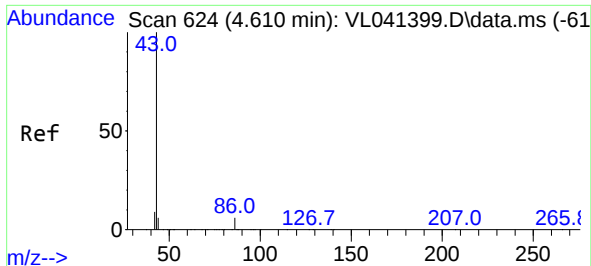
84 100

49 159.8 126.6 190.0

51 52.1 38.6 58.0

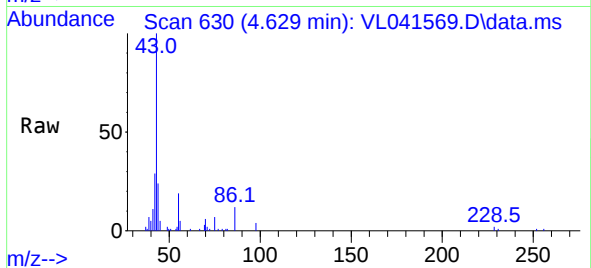
86 62.2 53.0 79.4



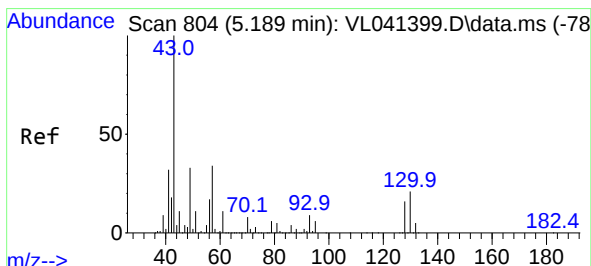
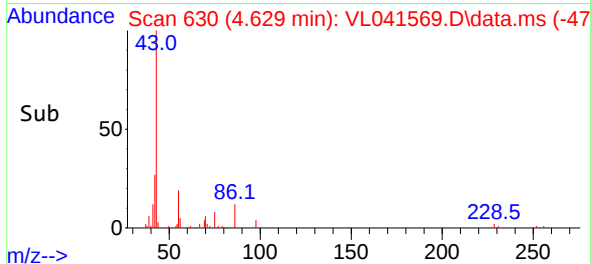
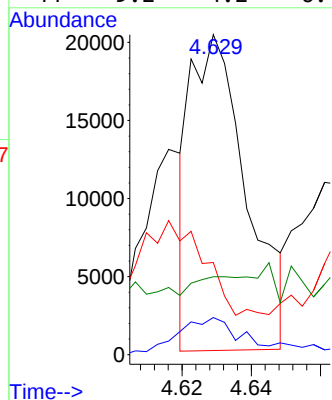


#23
Vinyl Acetate
Concen: 0.266 ppbv
RT: 4.629 min Scan# 61
Delta R.T. -0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Instrument :
MSVOA_L
ClientSampleId :

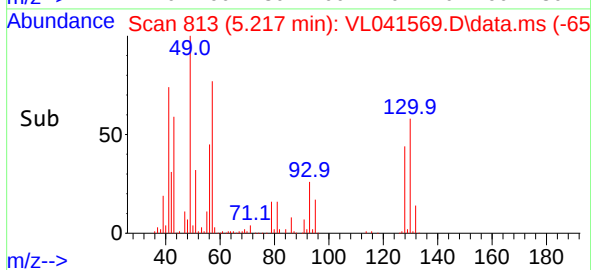
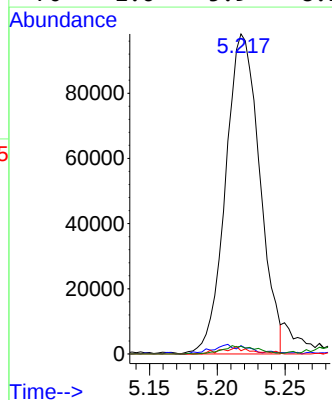
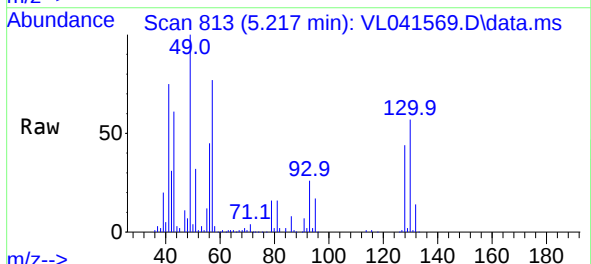


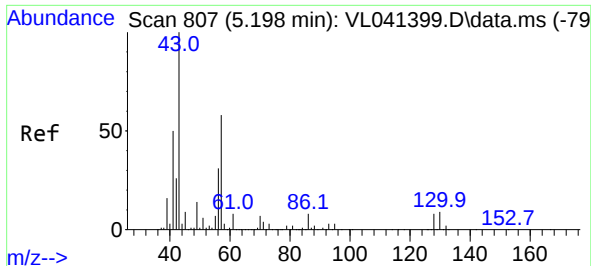
Tgt Ion: 43 Resp: 22776
Ion Ratio Lower Upper
43 100
86 11.6 4.6 6.8#
42 18.8 7.9 11.9#
44 9.2 4.2 6.4#



#25
Ethyl Acetate
Concen: 0.772 ppbv
RT: 5.217 min Scan# 813
Delta R.T. 0.010 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

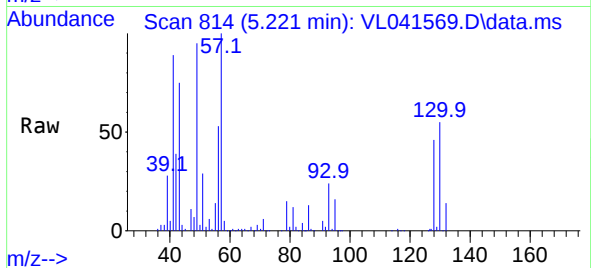
Tgt Ion: 43 Resp: 171806
Ion Ratio Lower Upper
43 100
45 3.9 8.5 12.7#
61 1.9 8.0 12.0#
70 2.6 5.9 8.9#



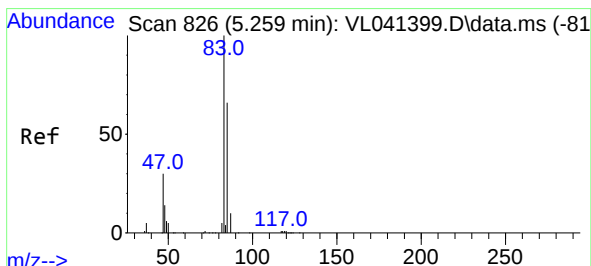
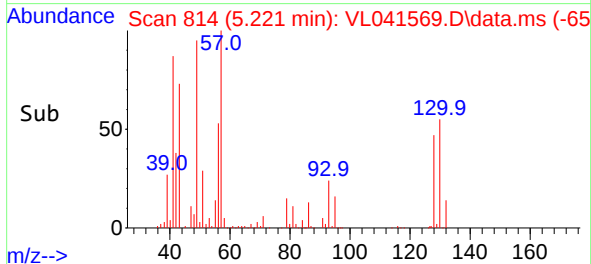
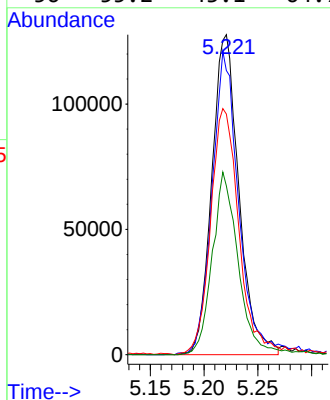


#26
Hexane
Concen: 2.430 ppbv
RT: 5.221 min Scan# 814
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Instrument :
MSVOA_L
ClientSampleId :

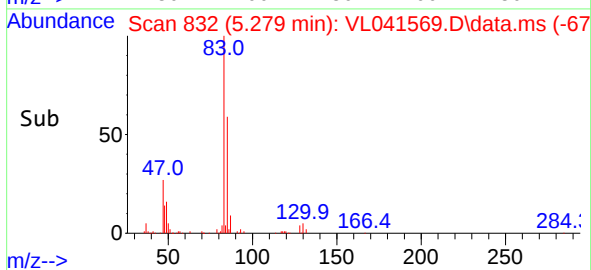
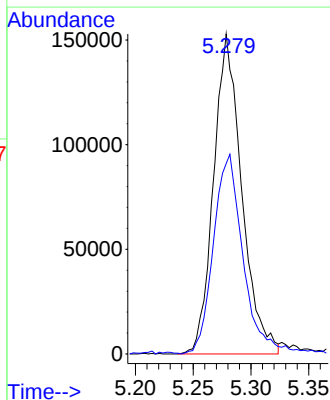
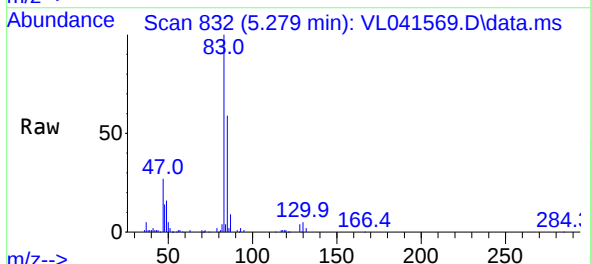


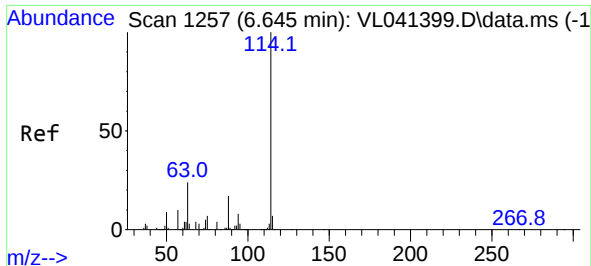
Tgt Ion: 57 Resp: 224221
Ion Ratio Lower Upper
57 100
41 95.4 74.0 111.0
43 81.8 193.6 290.4#
56 55.2 43.1 64.7



#29
Chloroform
Concen: 1.721 ppbv
RT: 5.279 min Scan# 832
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 83 Resp: 259042
Ion Ratio Lower Upper
83 100
85 59.2 53.1 79.7

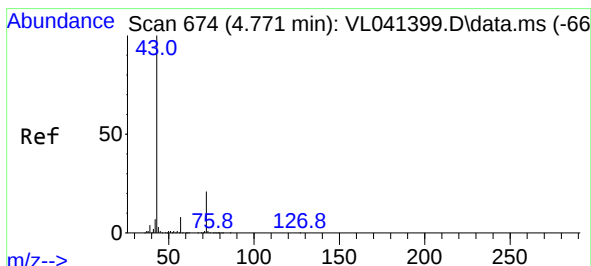
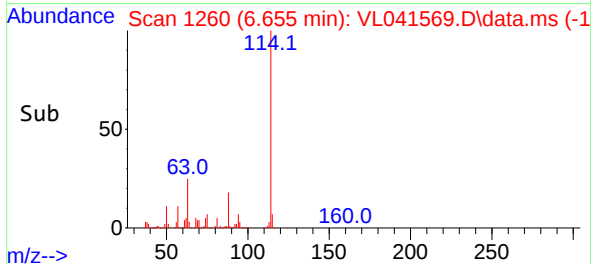
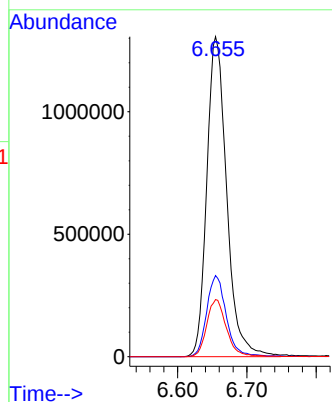
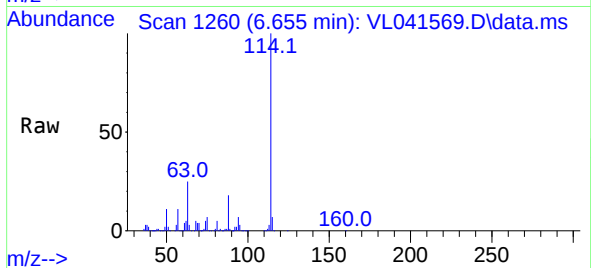




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 114
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

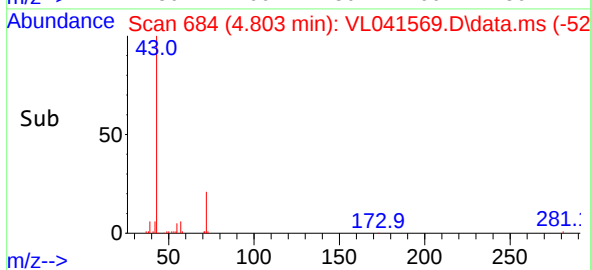
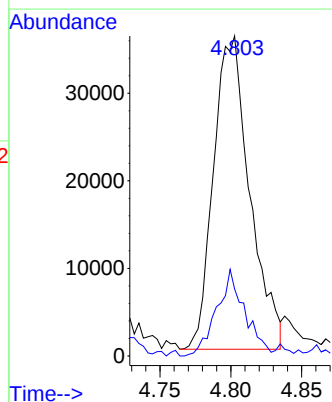
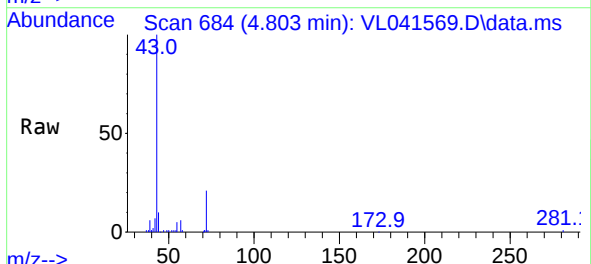
Instrument :
MSVOA_L
ClientSampleId :

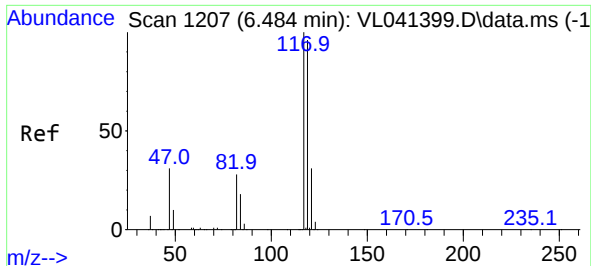
Tgt Ion:114 Resp: 2599985
Ion Ratio Lower Upper
114 100
63 25.3 20.3 30.5
88 17.8 14.3 21.5



#34
2-Butanone
Concen: 0.505 ppbv
RT: 4.803 min Scan# 684
Delta R.T. 0.010 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 43 Resp: 63570
Ion Ratio Lower Upper
43 100
72 24.5 17.3 25.9

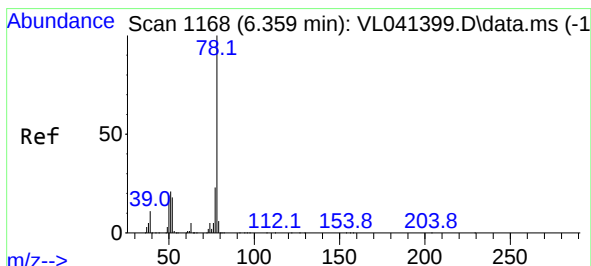
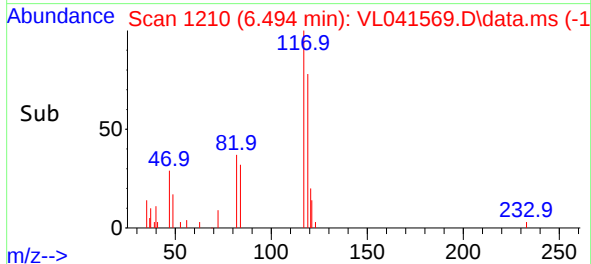
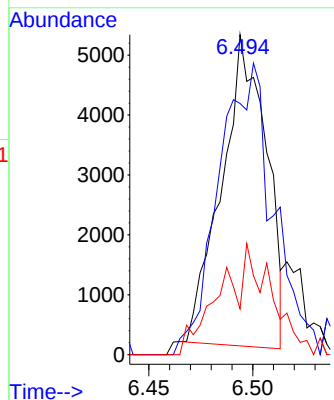
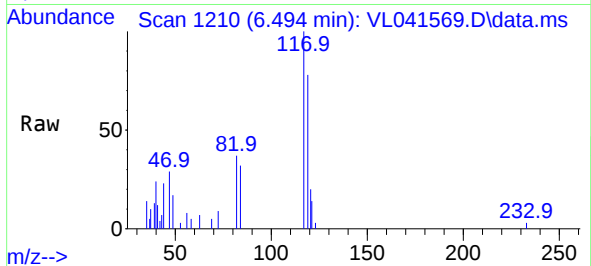




#35
Carbon Tetrachloride
Concen: 0.054 ppbv
RT: 6.494 min Scan# 1174
Delta R.T. -0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

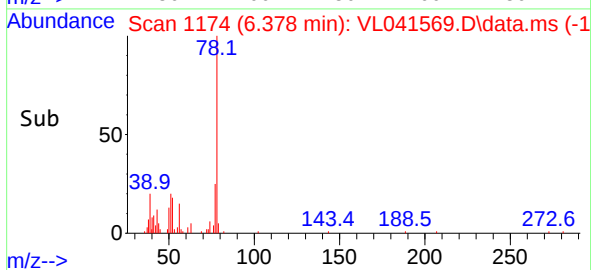
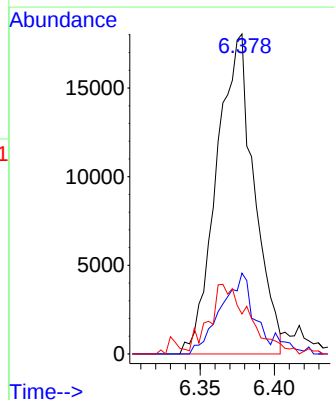
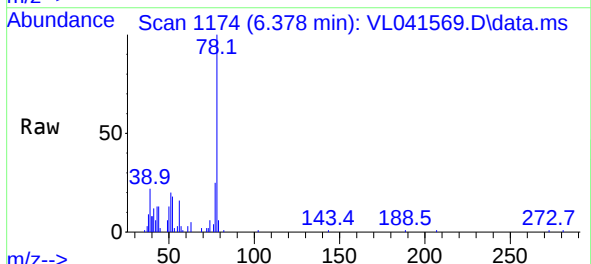
Instrument :
MSVOA_L
ClientSampleId :

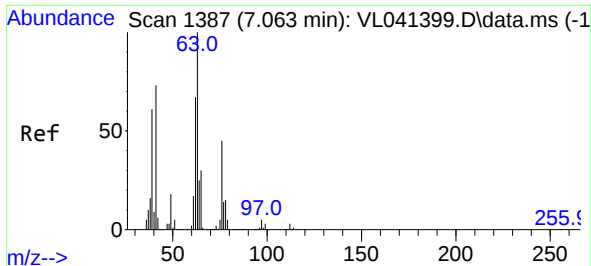
Tgt Ion:117 Resp: 7758
Ion Ratio Lower Upper
117 100
119 76.6 76.6 115.0#
121 14.9 25.1 37.7#



#36
Benzene
Concen: 0.167 ppbv
RT: 6.378 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 78 Resp: 31682
Ion Ratio Lower Upper
78 100
77 25.3 18.1 27.1
50 10.7 15.5 23.3#





#39

1,2-Dichloropropane

Concen: 8.799 ppbv

RT: 6.655 min Scan# 1

Delta R.T. -0.421 min

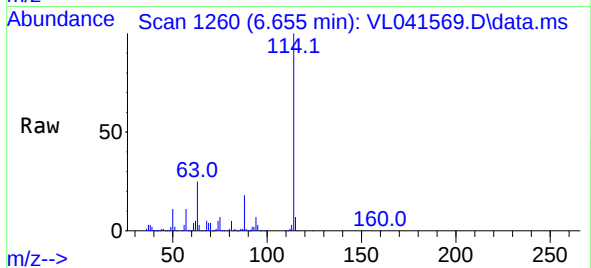
Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

Instrument :

MSVOA_L

ClientSampleId :



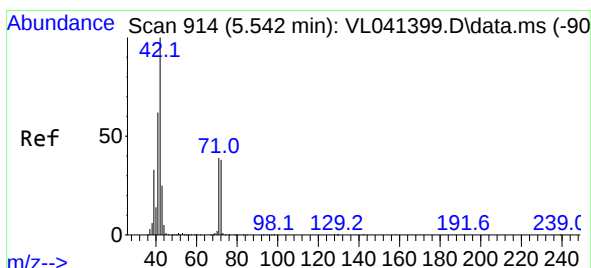
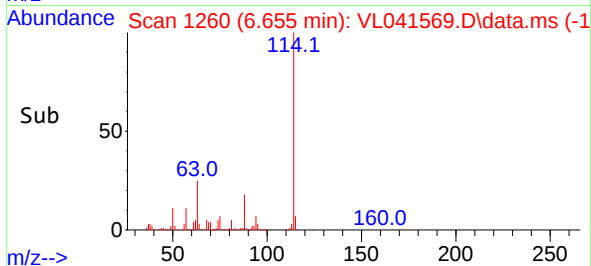
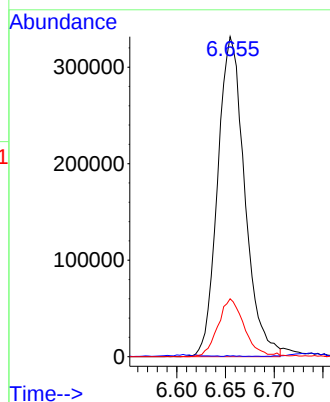
Tgt Ion: 63 Resp: 640018

Ion Ratio Lower Upper

63 100

41 0.0 58.3 87.5#

62 18.1 53.9 80.9#



#41

Tetrahydrofuran

Concen: 1.281 ppbv

RT: 5.217 min Scan# 813

Delta R.T. -0.344 min

Lab File: VL041569.D

Acq: 21 Aug 2024 16:15

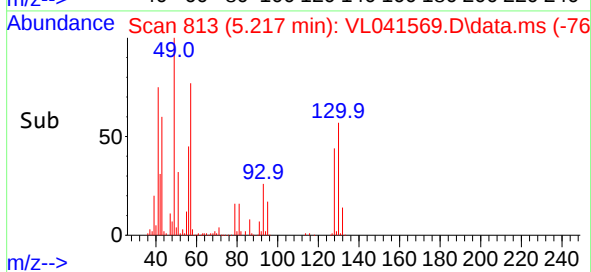
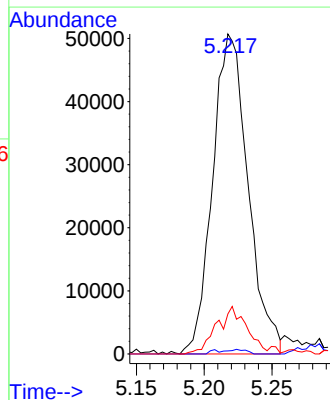
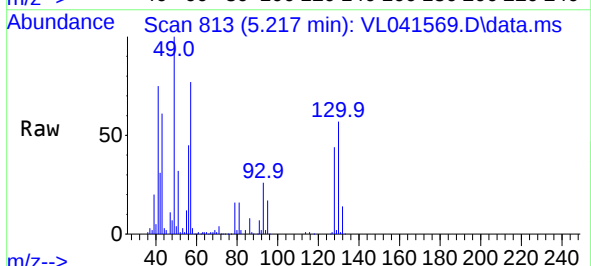
Tgt Ion: 42 Resp: 92172

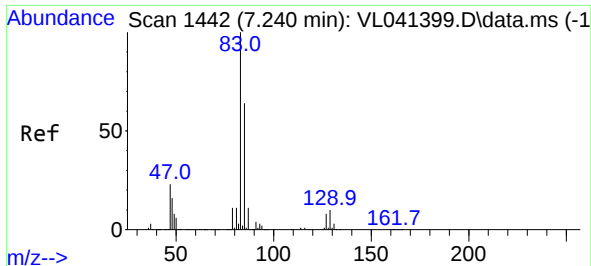
Ion Ratio Lower Upper

42 100

72 1.1 31.2 46.8#

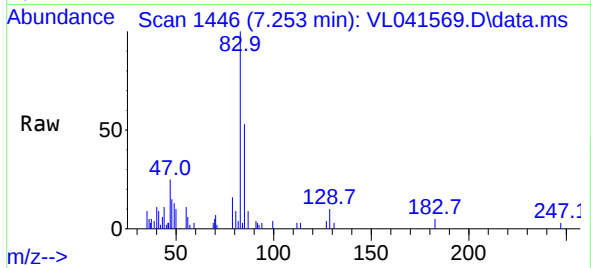
71 13.9 30.5 45.7#



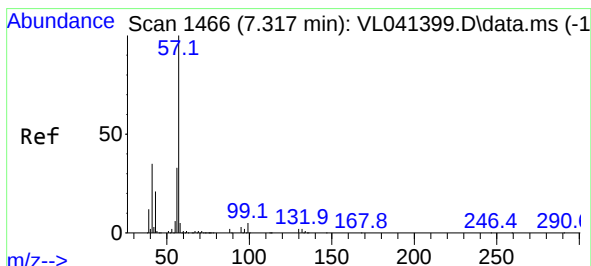
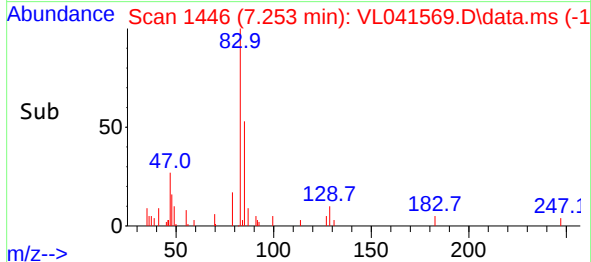
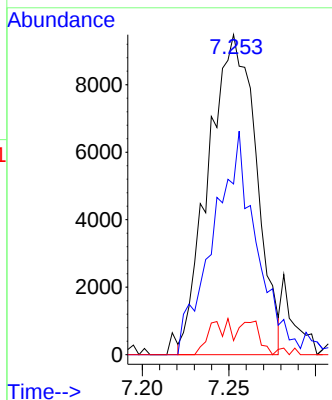


#42
Bromodichloromethane
Concen: 0.118 ppbv
RT: 7.253 min Scan# 1446
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Instrument :
MSVOA_L
ClientSampleId :

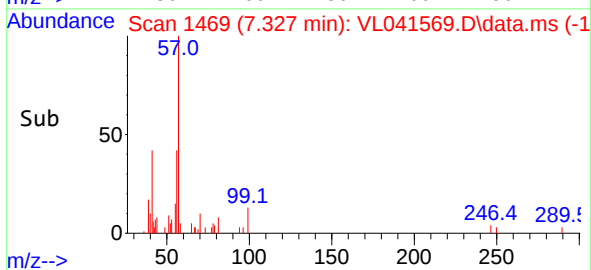
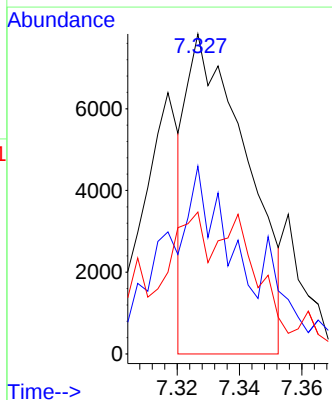
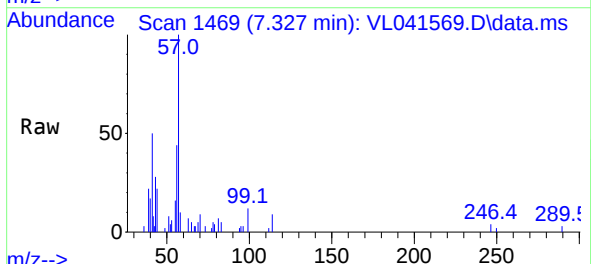


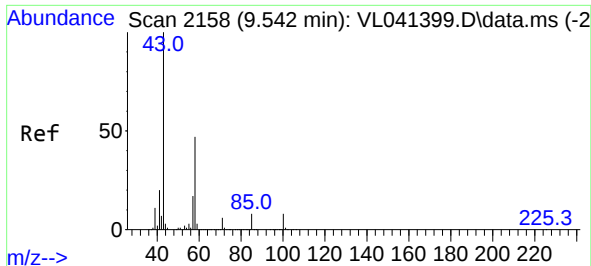
Tgt Ion: 83 Resp: 18190
Ion Ratio Lower Upper
83 100
85 55.1 51.4 77.0
127 4.6 6.7 10.1#



#44
2,2,4-Trimethylpentane
Concen: 0.033 ppbv
RT: 7.327 min Scan# 1469
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 57 Resp: 10513
Ion Ratio Lower Upper
57 100
41 88.0 27.0 40.6#
56 84.1 25.2 37.8#

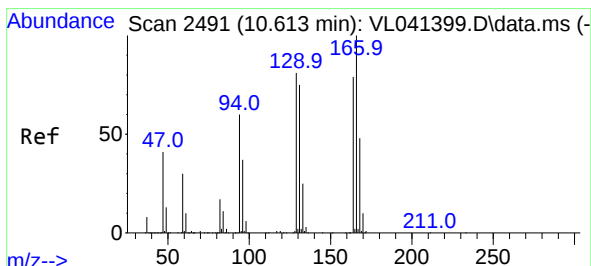
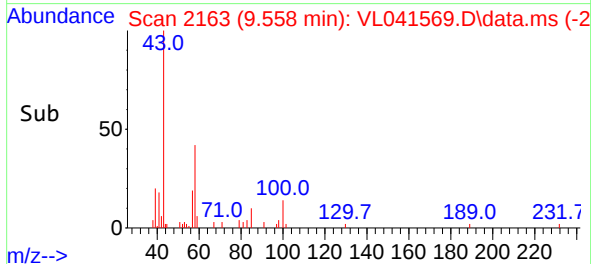
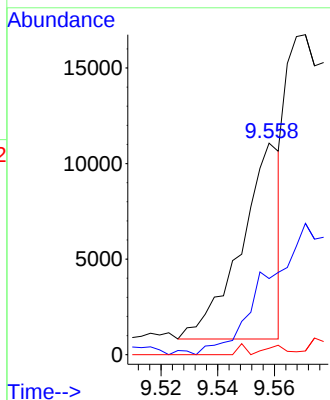
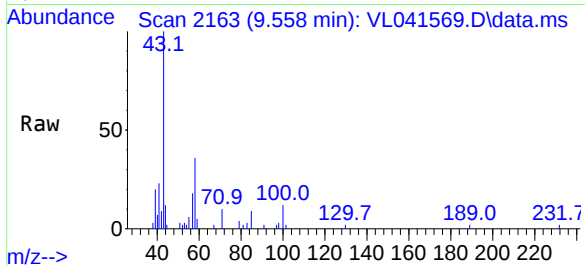




#51
2-Hexanone
Concen: 0.066 ppbv
RT: 9.558 min Scan# 2158
Delta R.T. 0.006 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

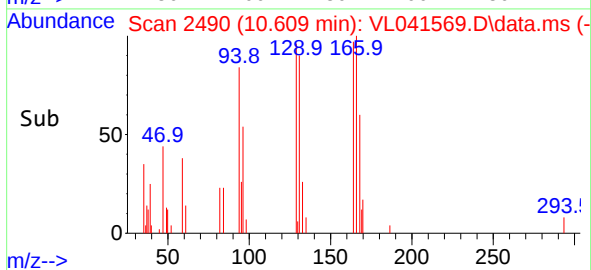
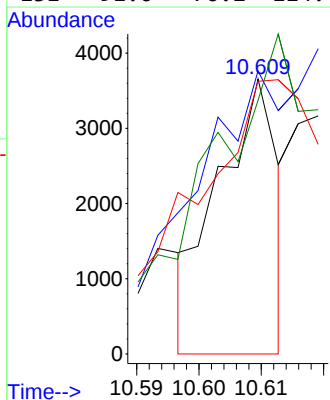
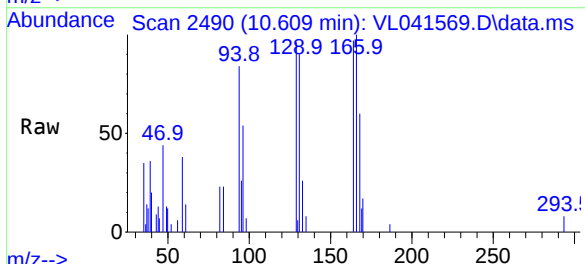
Instrument :
MSVOA_L
ClientSampleId :

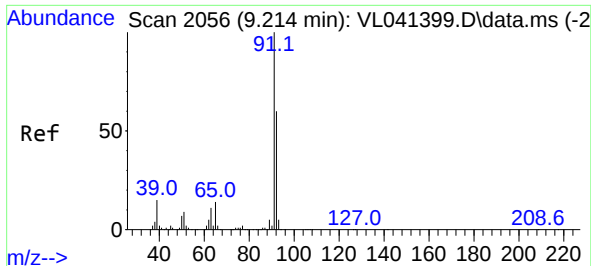
Tgt Ion: 43 Resp: 9925
Ion Ratio Lower Upper
43 100
58 0.0 38.2 57.2#
98 0.0 0.3 0.5#



#52
Tetrachloroethene
Concen: 0.033 ppbv
RT: 10.609 min Scan# 2490
Delta R.T. -0.007 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 164 Resp: 2427
Ion Ratio Lower Upper
164 100
166 81.8 101.1 151.7#
129 64.1 81.7 122.5#
131 91.6 76.2 114.4

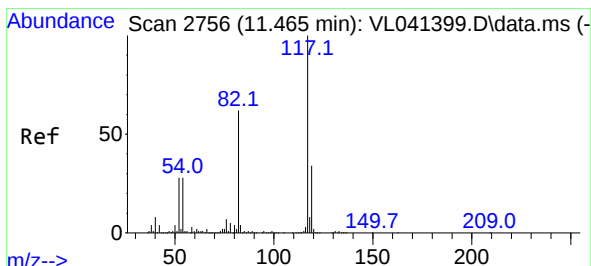
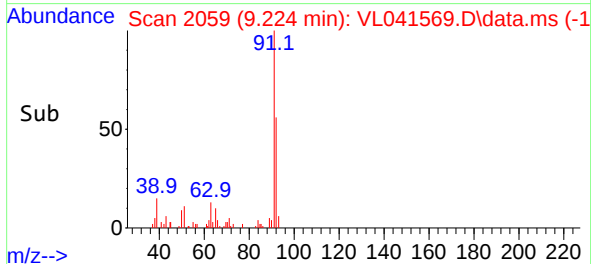
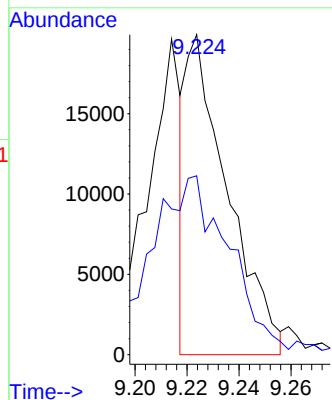
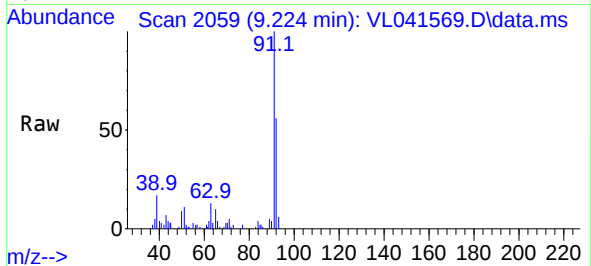




#53
Toluene
Concen: 0.105 ppbv
RT: 9.224 min Scan# 2056
Delta R.T. 0.003 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

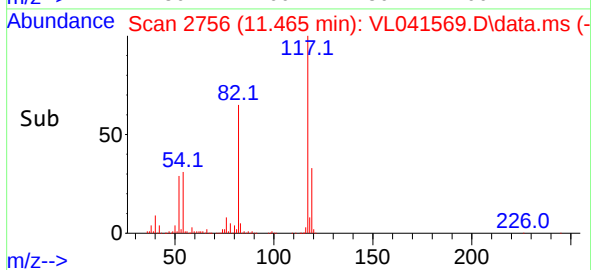
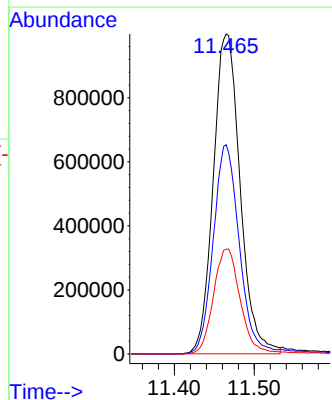
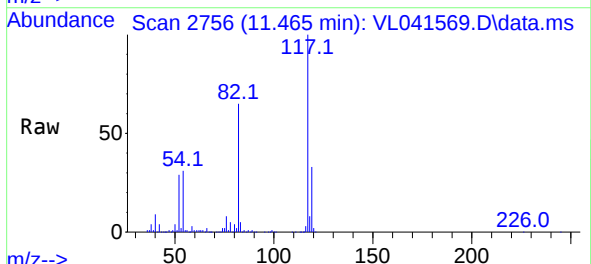
Instrument :
MSVOA_L
ClientSampleId :

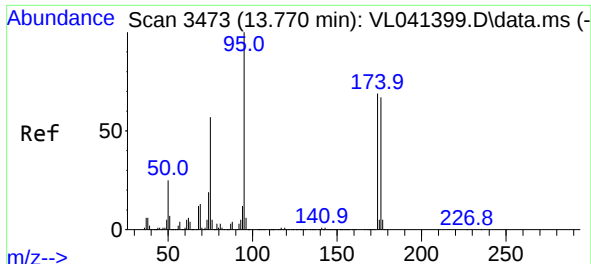
Tgt Ion: 91 Resp: 22215
Ion Ratio Lower Upper
91 100
92 109.3 48.7 73.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

Tgt Ion: 117 Resp: 2331006
Ion Ratio Lower Upper
117 100
82 65.3 51.0 76.6
119 33.2 45.2 67.8#

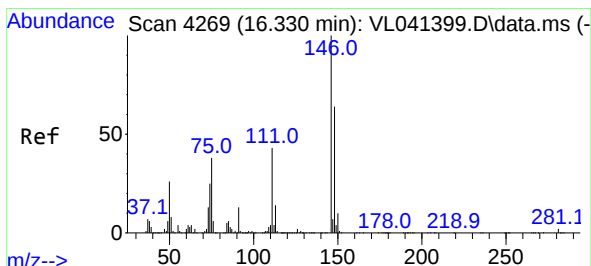
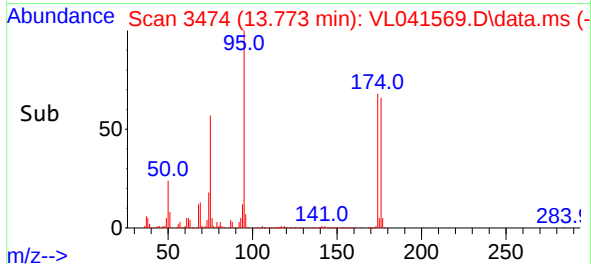
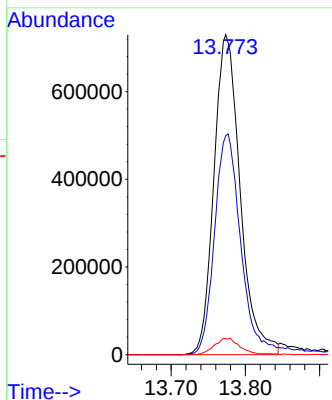
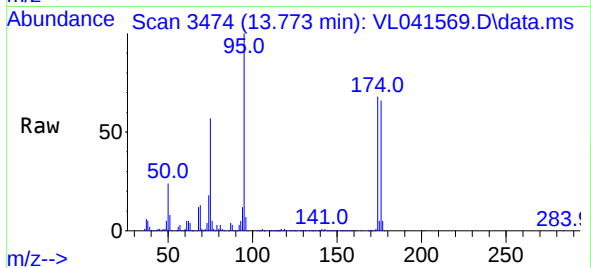




#68
1-Bromo-4-Fluorobenzene
Concen: 10.011 ppbv
RT: 13.773 min Scan# 3473
Delta R.T. -0.000 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

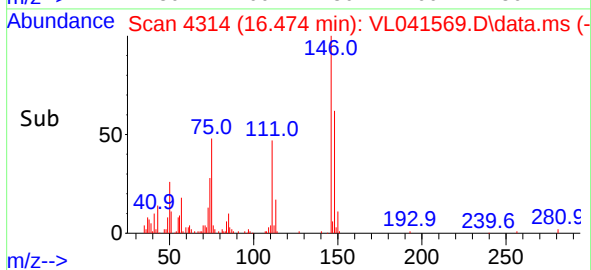
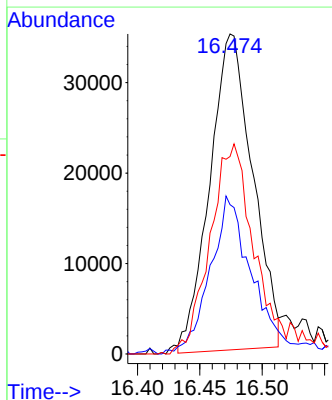
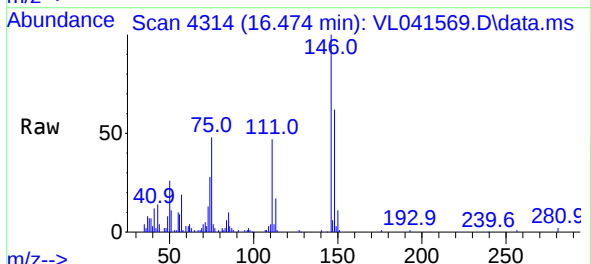
Instrument :
MSVOA_L
ClientSampleId :

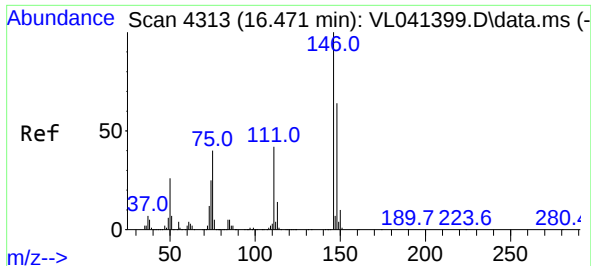
Tgt Ion: 95 Resp: 1795895
Ion Ratio Lower Upper
95 100
174 71.8 56.3 84.5
175 5.1 4.0 6.0



#75
1,3-Dichlorobenzene
Concen: 0.514 ppbv
RT: 16.474 min Scan# 4314
Delta R.T. 0.148 min
Lab File: VL041569.D
Acq: 21 Aug 2024 16:15

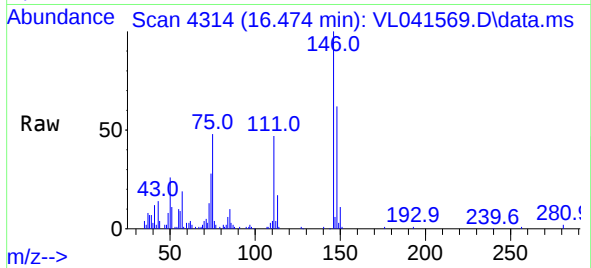
Tgt Ion:146 Resp: 83638
Ion Ratio Lower Upper
146 100
111 50.3 22.6 67.8
148 73.8 32.3 96.8





#76
 1,4-Dichlorobenzene
 Concen: 0.531 ppbv
 RT: 16.474 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041569.D
 Acq: 21 Aug 2024 16:15

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	146	Resp:	83638
Ion	Ratio	Lower	Upper
146	100		
111	50.3	22.4	67.0
148	73.8	33.1	99.5

