

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080824\
 Data File : VL041522.D
 Acq On : 8 Aug 2024 21:20
 Operator : SY/MD
 Sample : P3496-07 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Quant Time: Aug 09 06:00:00 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 Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.134	49	7819	10.000	ppbv	#-0.06
33) 1,4-Difluorobenzene	6.523	114	1395096	10.000	ppbv	#-0.13
55) Chlorobenzene-d5	11.330	117	10377	10.000	ppbv	#-0.13

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	488924	612.246	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	= 6122.500%	#

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.661	85	97	0.072	ppbv #	42
3) Chlorodifluoromethane	3.018	51	11536	12.394	ppbv	99
4) Chloromethane	2.793	50	224	0.452	ppbv #	42
5) Vinyl Chloride	2.893	62	149	0.305	ppbv #	43
6) Bromomethane	3.038	94	131	0.522	ppbv #	4
7) Chloroethane	3.179	64	66	0.392	ppbv #	44
8) Dichlorotetrafluoroethane	2.661	85	97	0.081	ppbv #	15
9) Propene	3.021	41	376097	879.557	ppbv	91
10) Heptane	7.488	43	7160	7.453	ppbv #	27
11) Trichlorofluoromethane	3.150	101	139	0.116	ppbv #	17
12) 1,1,2-Trichlorotrifluo...	4.459	101	130	0.151	ppbv #	12
13) Ethanol	3.198	45	1774	46.418	ppbv #	41
14) Bromoethene	3.665	108	95	0.283	ppbv #	1
15) Acetone	3.298	43	517728	582.764	ppbv #	48
16) 1,3-Butadiene	2.951	39	22242	46.860	ppbv #	23
17) tert-Butyl alcohol	3.829	59	236	0.291	ppbv #	72
18) 1,1-Dichloroethene	3.829	96	85	0.231	ppbv #	1
19) Isopropyl Alcohol	3.539	45	1004	1.933	ppbv #	93
20) Methylene Chloride	3.880	84	129	0.389	ppbv #	17
21) Allyl Chloride	3.938	41	477	0.819	ppbv #	1
22) trans-1,2-Dichloroethene	4.822	96	161	0.438	ppbv #	9
23) Vinyl Acetate	4.594	43	2337942	3445.729	ppbv #	89
24) 1,1-Dichloroethane	4.513	63	139	0.174	ppbv #	90
25) Ethyl Acetate	5.144	43	2825	1.601	ppbv #	64
26) Hexane	5.156	57	422	0.576	ppbv #	1
27) Carbon Disulfide	4.182	76	63	0.074	ppbv #	1
28) Methyl tert-Butyl Ether	4.526	73	3997	8.657	ppbv #	1
29) Chloroform	5.465	83	49	0.041	ppbv	94
30) Cyclohexane	6.523	84	1471	2.467	ppbv #	1
31) cis-1,2-Dichloroethene	5.018	61	195	0.270	ppbv #	27
32) 1,1,1-Trichloroethane	6.005	97	102	0.088	ppbv #	47
34) 2-Butanone	4.719	43	25291	0.375	ppbv #	54
36) Benzene	6.243	78	3280	0.032	ppbv #	82
39) 1,2-Dichloropropane	6.729	63	1762	0.045	ppbv #	56
56) 1,1,1,2-Tetrachloroethane	11.320	131	87	0.216	ppbv #	1
57) Chlorobenzene	11.391	112	314	0.425	ppbv #	26
58) Ethyl Benzene	11.864	91	409	0.342	ppbv	95
59) m/p-Xylene	12.211	91	1881	1.822	ppbv #	31
60) o-Xylene	12.899	91	367	0.376	ppbv #	30
61) Styrene	12.561	104	85	0.193	ppbv #	1
62) Isopropylbenzene	13.854	105	270	0.182	ppbv #	49
63) 1,1,2,2-Tetrachloroethane	12.892	83	426	0.691	ppbv #	25
64) n-propylbenzene	14.783	120	84	0.216	ppbv #	1

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 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

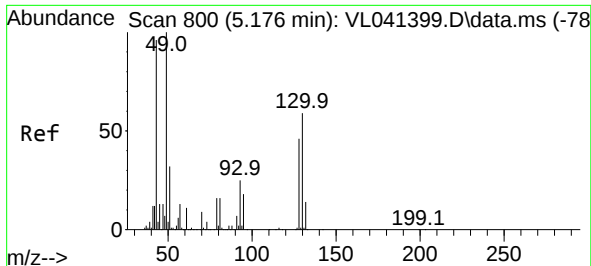
Instrument :
 MSVOA_L
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Quant Time: Aug 09 06:00:00 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 06 01:32:58 2024
 Response via : Initial Calibration

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

65) tert-Butylbenzene	16.060	119	209	0.156	ppbv	#	1
66) Benzyl Chloride	16.133	91	80	0.930	ppbv	#	66
67) sec-Butylbenzene	16.436	105	63	0.034	ppbv	#	59
69) p-Isopropyltoluene	16.870	119	250	0.163	ppbv	#	17
70) n-Butylbenzene	17.648	91	137	0.087	ppbv	#	33
71) 2-Chlorotoluene	14.635	91	386	0.353	ppbv		94
72) 4-Ethyltoluene	15.047	105	51	0.044	ppbv	#	1
73) 1,3,5-Trimethylbenzene	15.166	105	476	0.481	ppbv	#	29
74) 1,2,4-Trimethylbenzene	15.989	105	75	0.065	ppbv	#	20
75) 1,3-Dichlorobenzene	16.297	146	2129	2.941	ppbv	#	23
76) 1,4-Dichlorobenzene	16.297	146	2129	3.037	ppbv	#	23
77) 1,2-Dichlorobenzene	16.931	146	107	0.149	ppbv	#	6
78) Hexachloro-1,3-Butadiene	22.616	225	91	0.149	ppbv	#	19
79) Naphthalene	21.362	128	240	0.236	ppbv	#	69
81) 1,2,4-Trichlorobenzene	20.863	180	88	0.145	ppbv	#	12

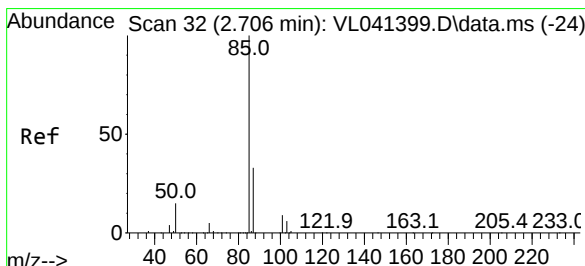
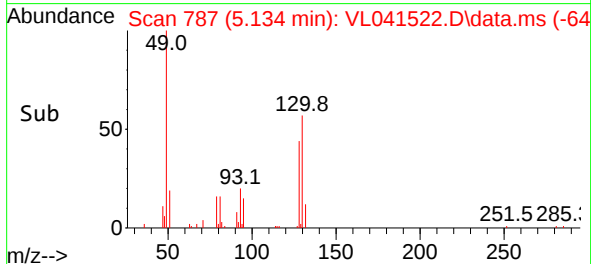
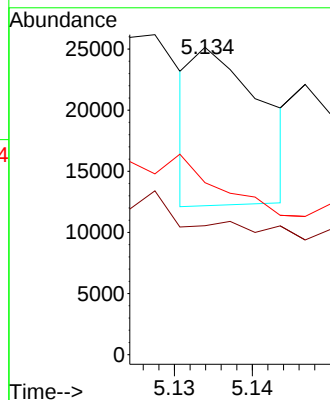
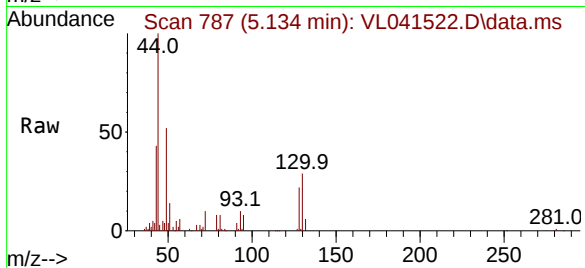
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.134 min Scan# 71
Delta R.T. -0.055 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

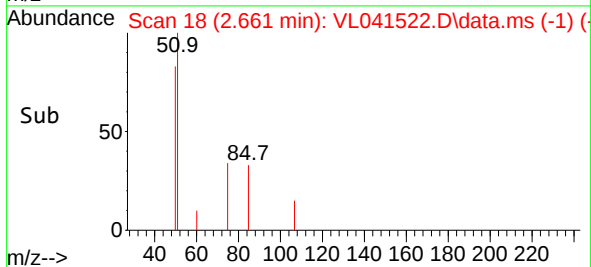
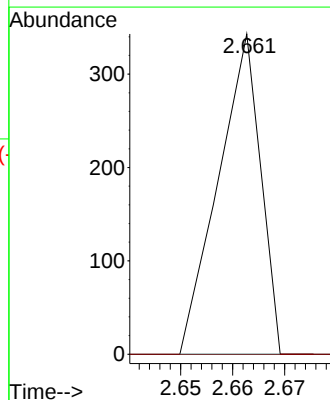
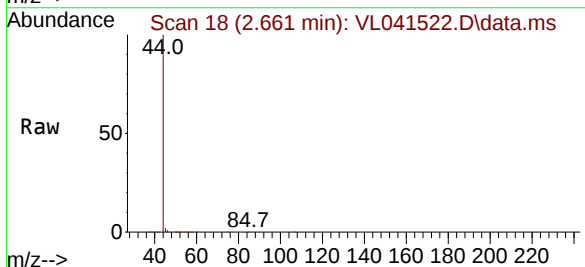
Instrument :
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ClientSampleId :
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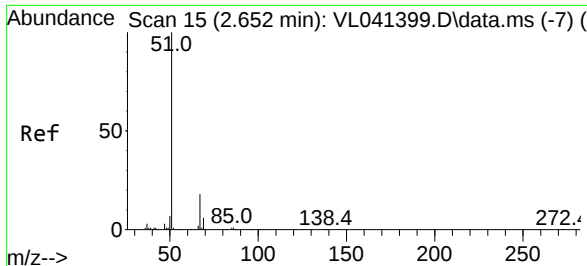
Tgt Ion: 49 Resp: 7819
Ion Ratio Lower Upper
49 100
128 0.0 23.8 71.4#
130 0.0 30.8 92.4#



#2
Dichlorodifluoromethane
Concen: 0.072 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.071 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 85 Resp: 97
Ion Ratio Lower Upper
85 100
87 0.0 26.0 39.0#

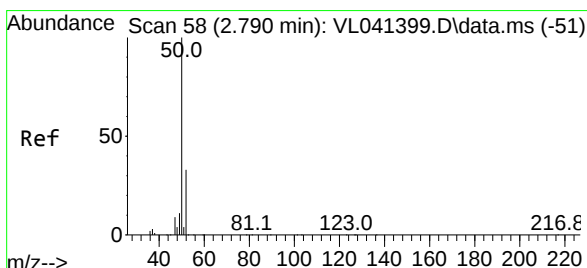
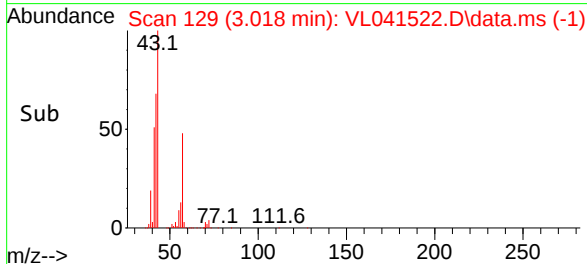
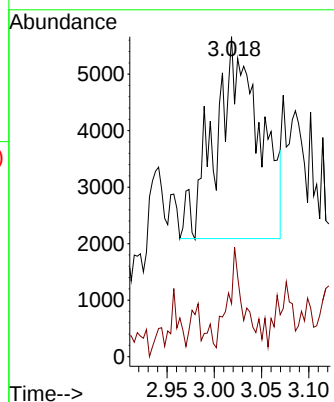
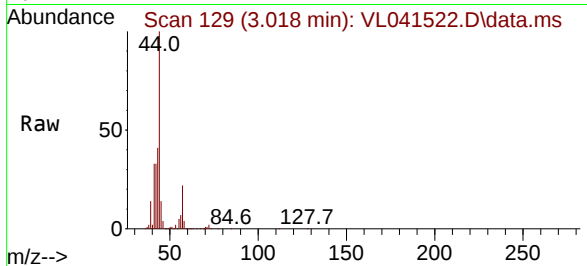




#3
Chlorodifluoromethane
Concen: 12.394 ppbv
RT: 3.018 min Scan# 11
Delta R.T. 0.341 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

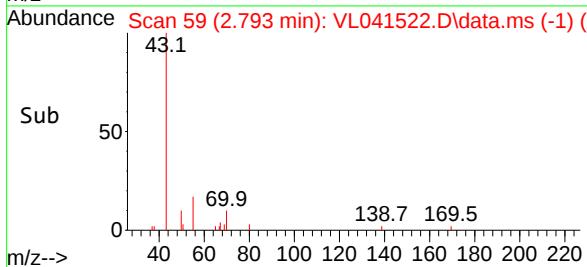
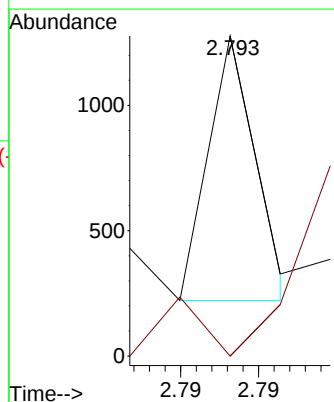
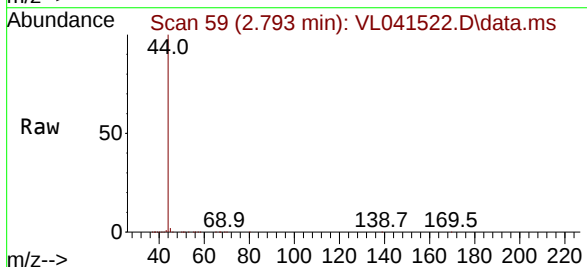
Instrument :
MSVOA_L
ClientSampleId :
SV-1

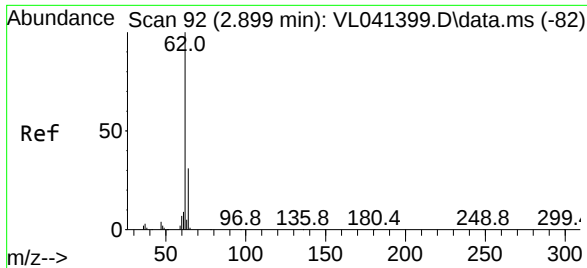
Tgt Ion: 51 Resp: 11536
Ion Ratio Lower Upper
51 100
67 17.5 14.5 21.7



#4
Chloromethane
Concen: 0.452 ppbv
RT: 2.793 min Scan# 59
Delta R.T. -0.022 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 50 Resp: 224
Ion Ratio Lower Upper
50 100
52 0.0 26.1 39.1#

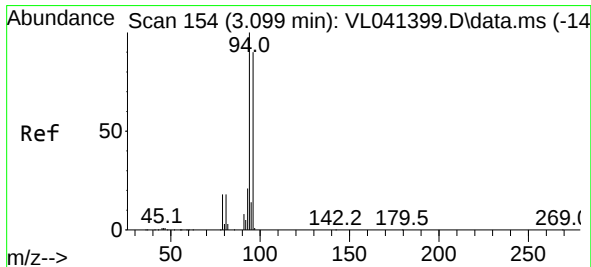
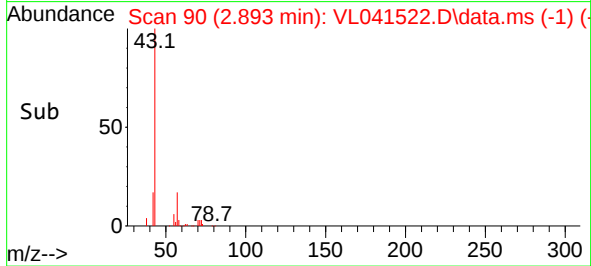
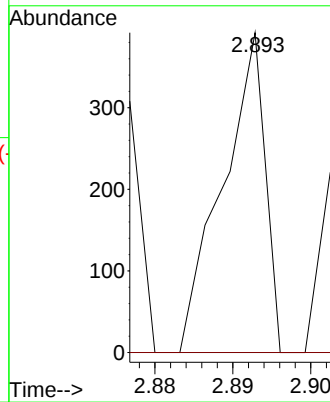
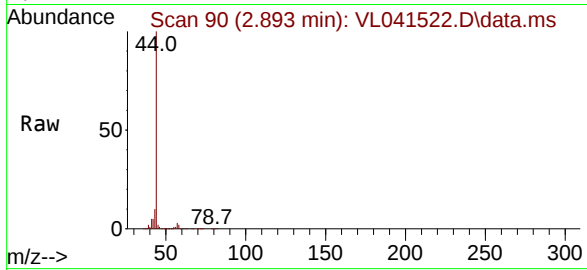




#5
 Vinyl Chloride
 Concen: 0.305 ppbv
 RT: 2.893 min Scan# 90
 Delta R.T. -0.029 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

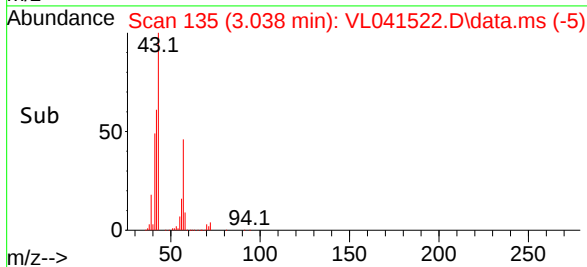
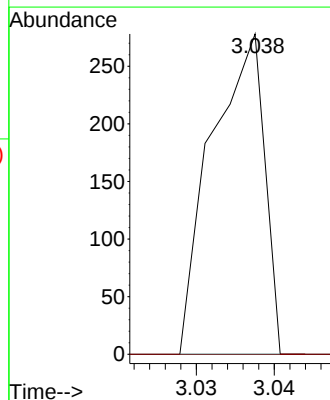
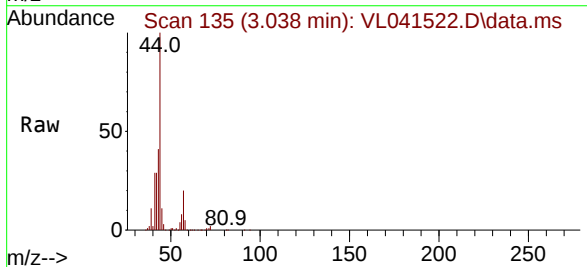
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

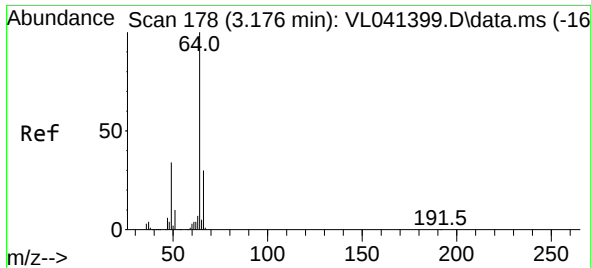
Tgt Ion: 62 Resp: 149
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.0 37.4#



#6
 Bromomethane
 Concen: 0.522 ppbv
 RT: 3.038 min Scan# 135
 Delta R.T. -0.084 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

Tgt Ion: 94 Resp: 131
 Ion Ratio Lower Upper
 94 100
 96 0.0 72.3 108.5#

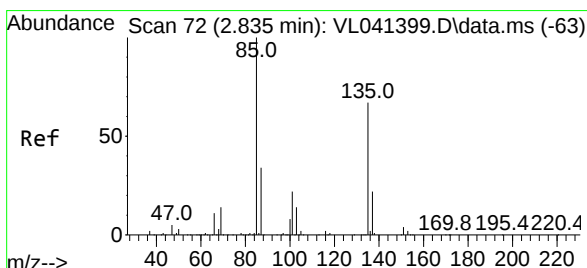
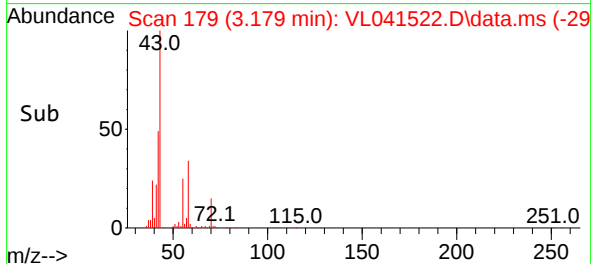
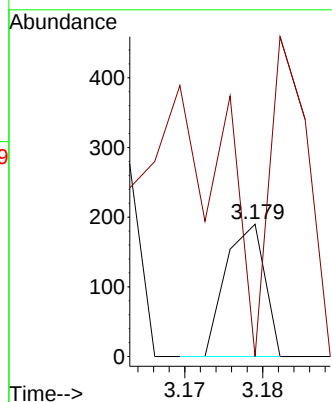
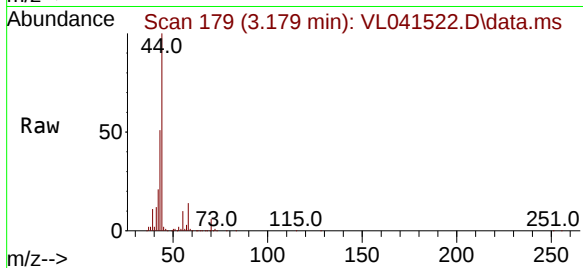




#7
Chloroethane
Concen: 0.392 ppbv
RT: 3.179 min Scan# 11
Delta R.T. -0.019 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

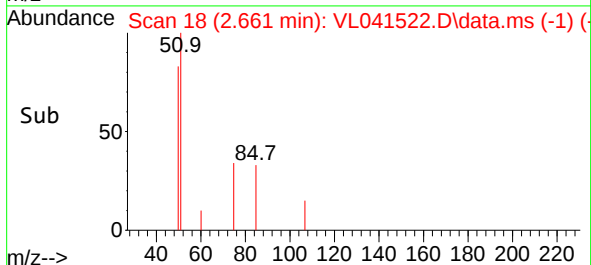
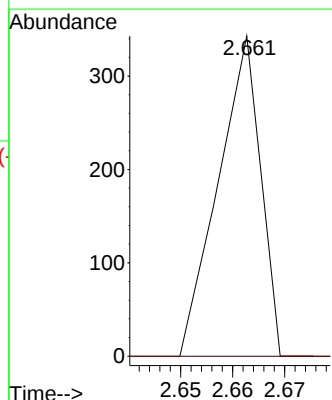
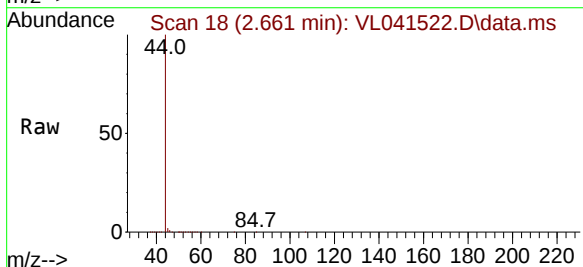
Instrument :
MSVOA_L
ClientSampleId :
SV-1

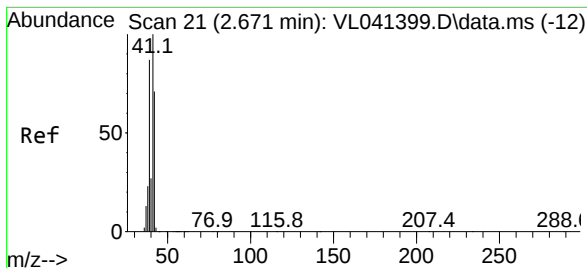
Tgt Ion: 64 Resp: 66
Ion Ratio Lower Upper
64 100
66 0.0 24.2 36.2#



#8
Dichlorotetrafluoroethane
Concen: 0.081 ppbv
RT: 2.661 min Scan# 18
Delta R.T. -0.199 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 85 Resp: 97
Ion Ratio Lower Upper
85 100
135 0.0 55.4 83.0#





#9

Propene

Concen: 879.557 ppbv

RT: 3.021 min Scan# 11

Delta R.T. 0.325 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

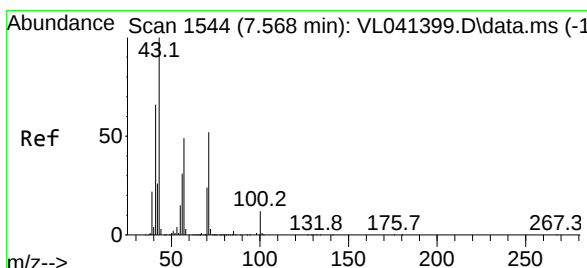
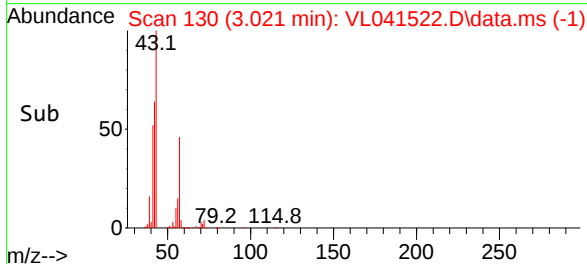
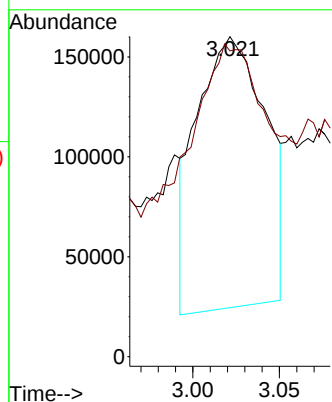
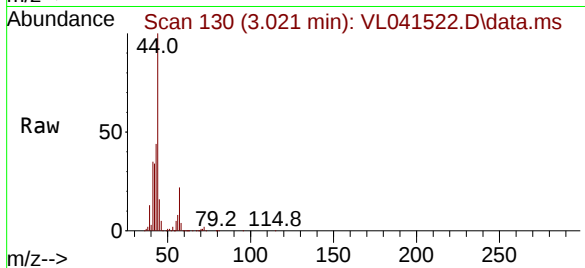
SV-1

Tgt Ion: 41 Resp: 376097

Ion Ratio Lower Upper

41 100

42 62.9 55.9 83.9



#10

Heptane

Concen: 7.453 ppbv

RT: 7.488 min Scan# 1519

Delta R.T. -0.087 min

Lab File: VL041522.D

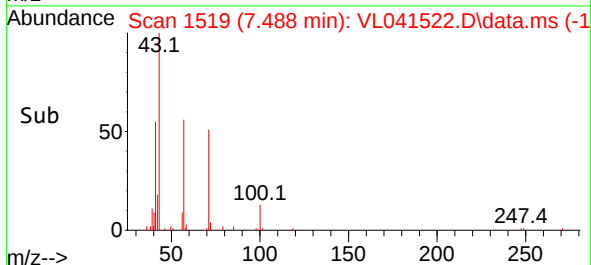
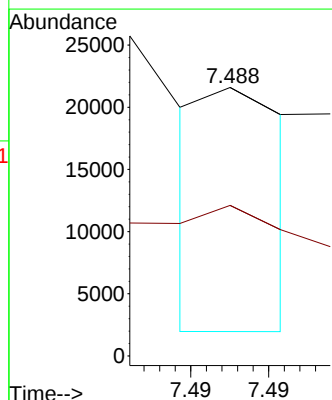
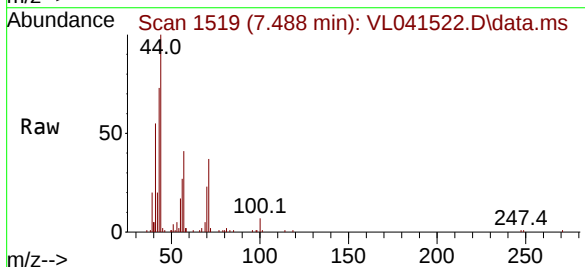
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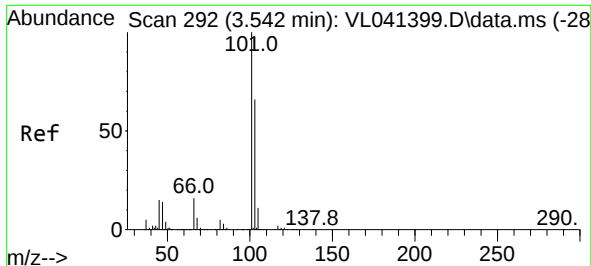
Tgt Ion: 43 Resp: 7160

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#

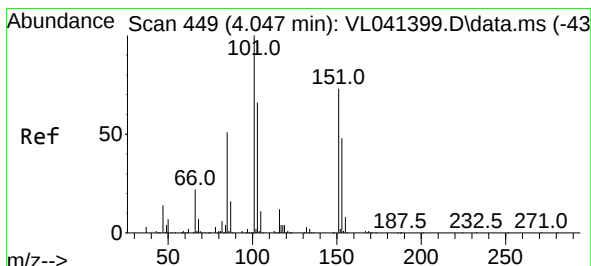
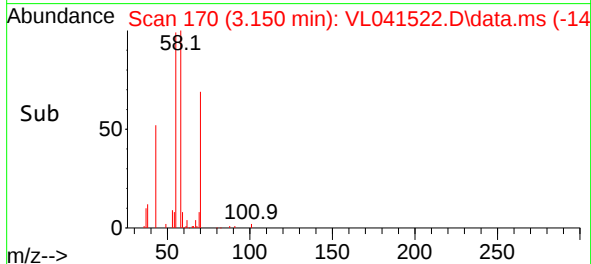
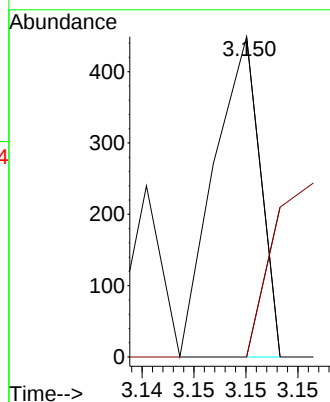
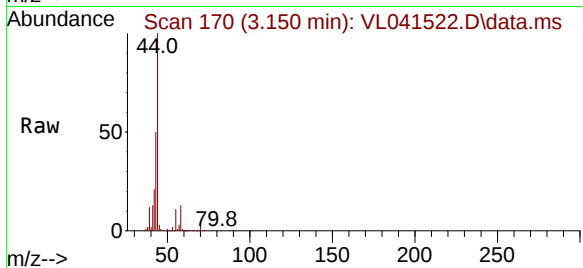




#11
 Trichlorofluoromethane
 Concen: 0.116 ppbv
 RT: 3.150 min Scan# 11
 Delta R.T. -0.412 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

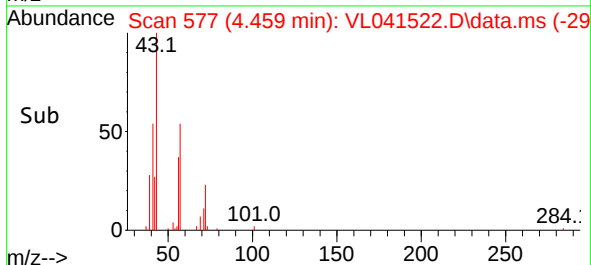
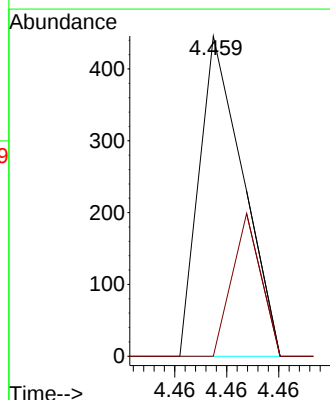
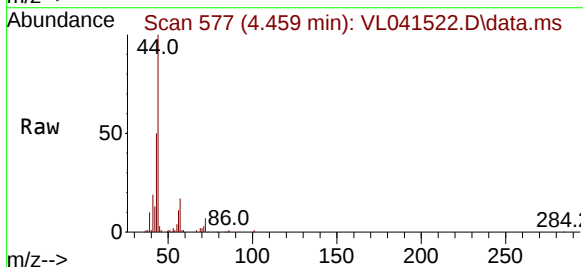
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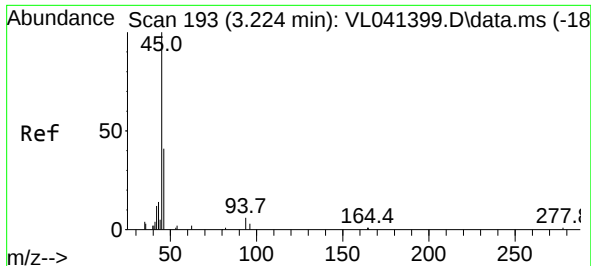
Tgt Ion:101 Resp: 139
 Ion Ratio Lower Upper
 101 100
 103 0.0 52.6 79.0#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.151 ppbv
 RT: 4.459 min Scan# 577
 Delta R.T. 0.396 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

Tgt Ion:101 Resp: 130
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.2#

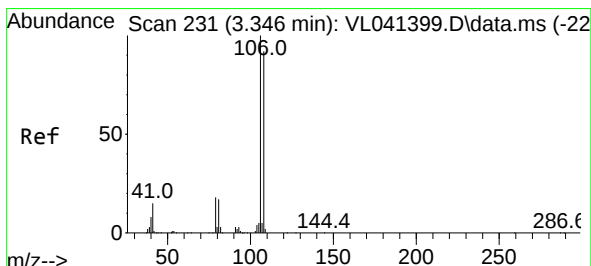
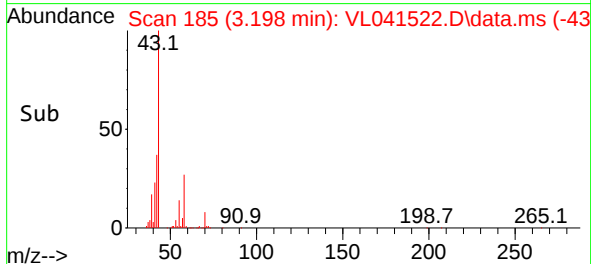
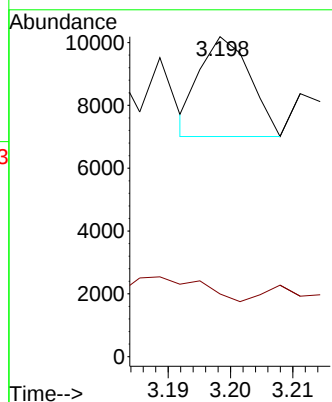
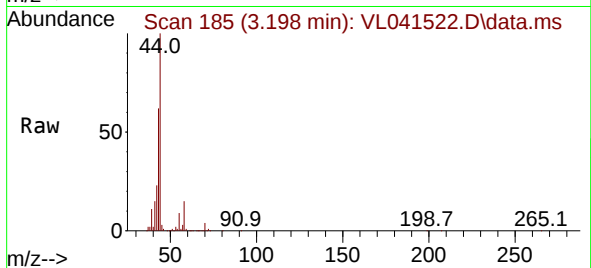




#13
Ethanol
Concen: 46.418 ppbv
RT: 3.198 min Scan# 11
Delta R.T. -0.045 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

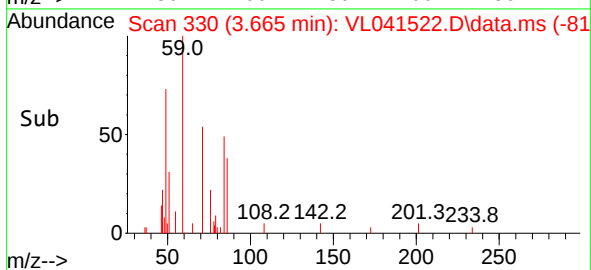
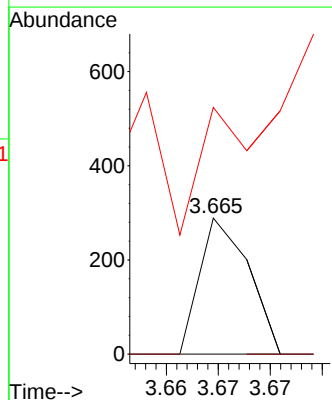
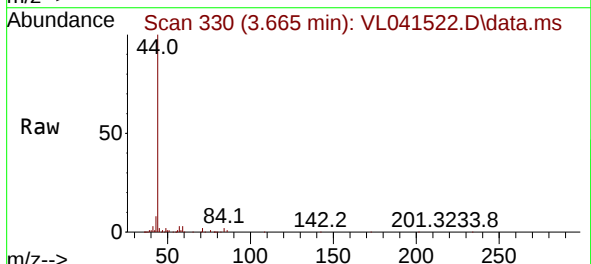
Instrument :
MSVOA_L
ClientSampleId :
SV-1

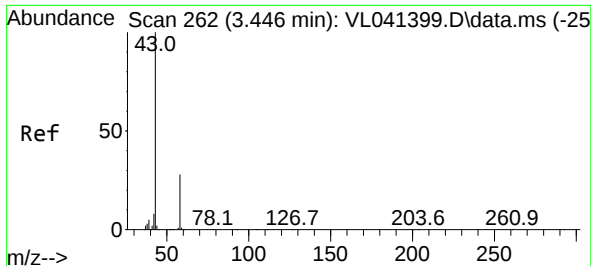
Tgt Ion: 45 Resp: 1774
Ion Ratio Lower Upper
45 100
46 0.0 13.4 53.4#



#14
Bromoethene
Concen: 0.283 ppbv
RT: 3.665 min Scan# 330
Delta R.T. 0.299 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion:108 Resp: 95
Ion Ratio Lower Upper
108 100
106 0.0 86.9 130.3#
79 1824.2 16.2 24.4#

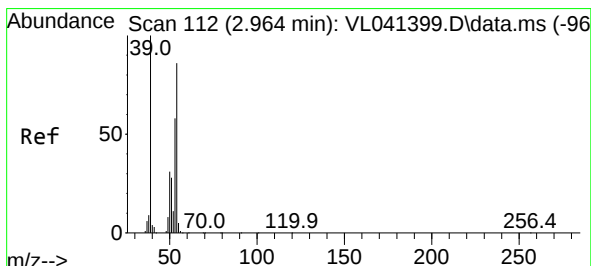
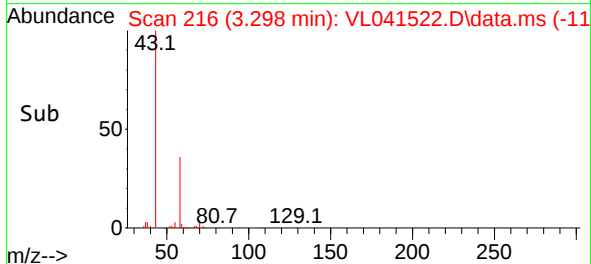
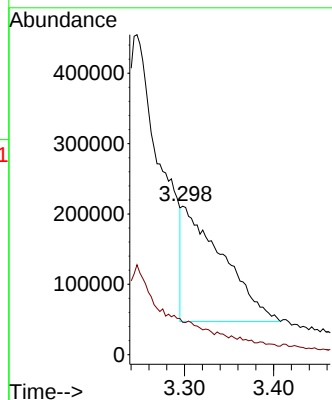
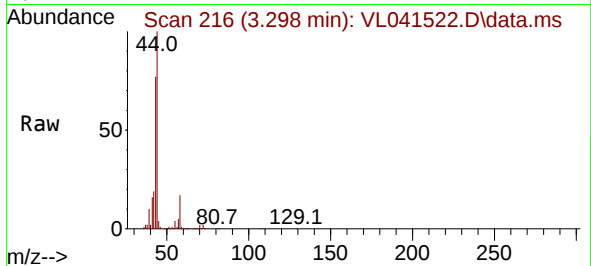




#15
Acetone
Concen: 582.764 ppbv
RT: 3.298 min Scan# 21
Delta R.T. -0.170 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

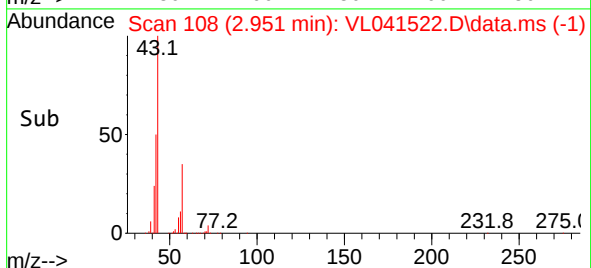
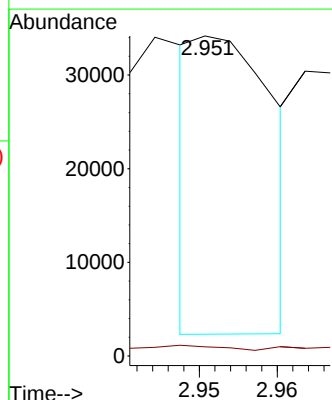
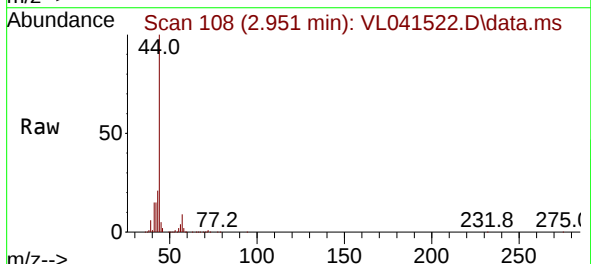
Instrument :
MSVOA_L
ClientSampleId :
SV-1

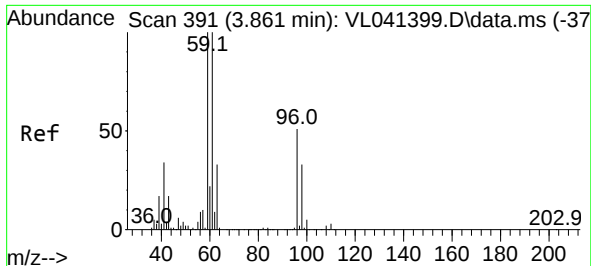
Tgt Ion: 43 Resp: 517728
Ion Ratio Lower Upper
43 100
58 0.0 21.4 32.2#



#16
1,3-Butadiene
Concen: 46.860 ppbv
RT: 2.951 min Scan# 108
Delta R.T. -0.035 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 39 Resp: 22242
Ion Ratio Lower Upper
39 100
54 11.3 62.5 93.7#

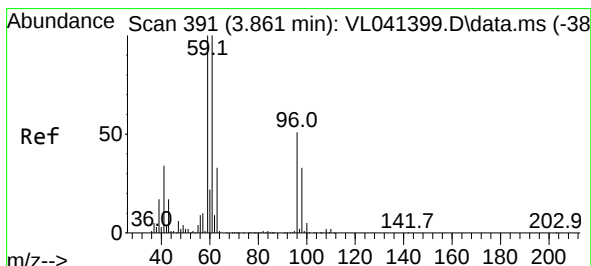
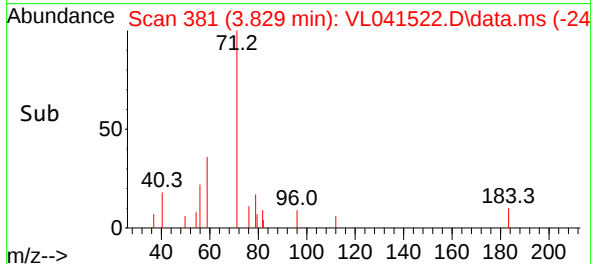
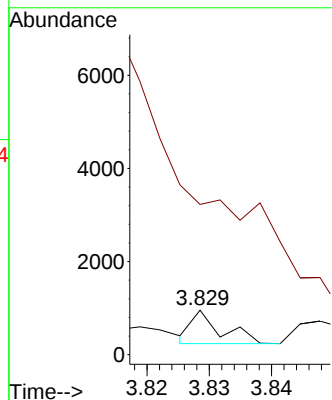
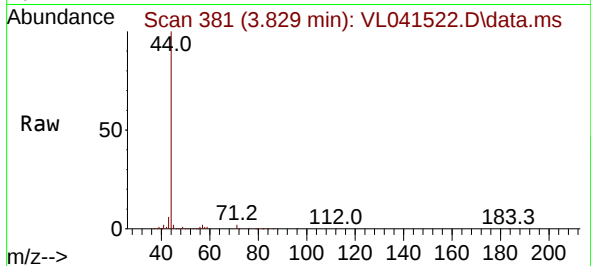




#17
tert-Butyl alcohol
Concen: 0.291 ppbv
RT: 3.829 min Scan# 381
Delta R.T. -0.048 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

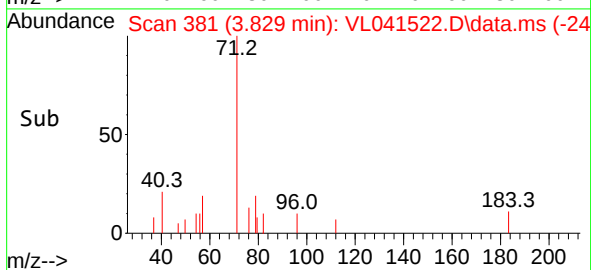
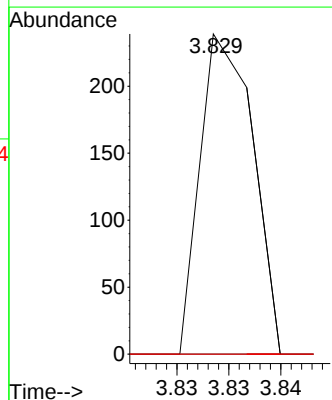
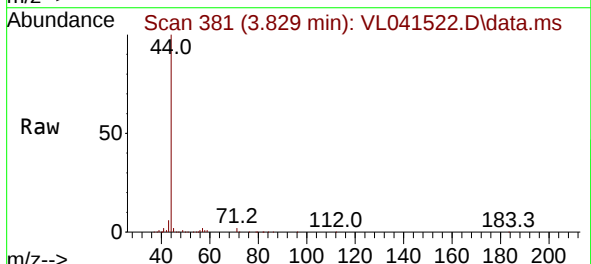
Instrument :
MSVOA_L
ClientSampleId :
SV-1

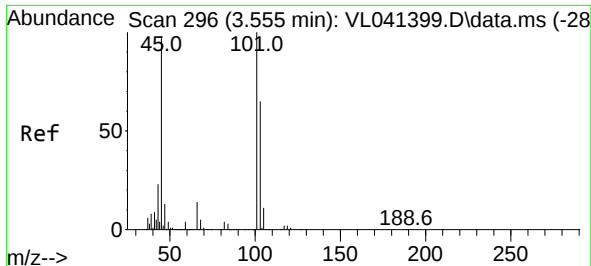
Tgt Ion: 59 Resp: 236
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#18
1,1-Dichloroethene
Concen: 0.231 ppbv
RT: 3.829 min Scan# 381
Delta R.T. -0.051 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 96 Resp: 85
Ion Ratio Lower Upper
96 100
61 0.0 157.5 236.3#
98 0.0 51.2 76.8#





#19

Isopropyl Alcohol

Concen: 1.933 ppbv

RT: 3.539 min Scan# 296

Delta R.T. -0.035 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

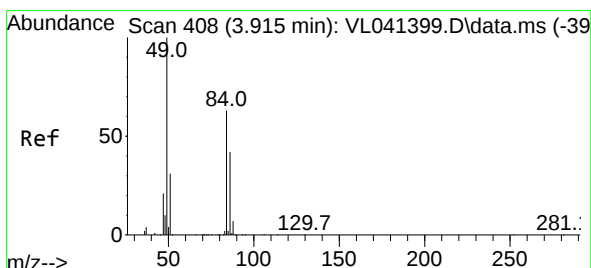
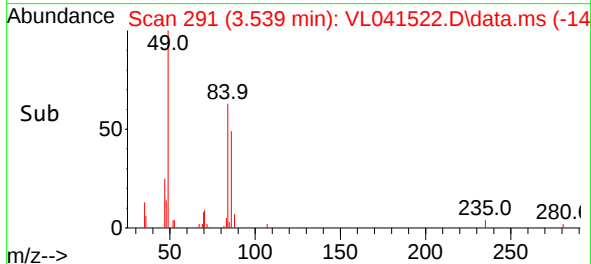
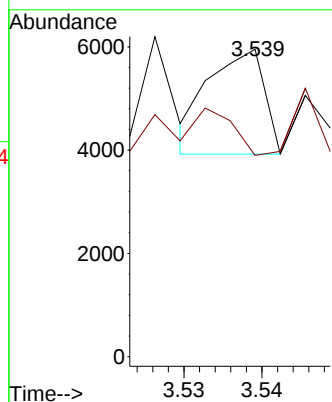
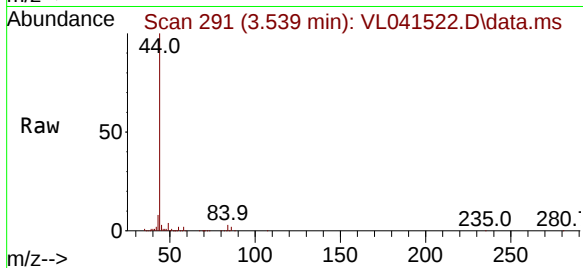
SV-1

Tgt Ion: 45 Resp: 1004

Ion Ratio Lower Upper

45 100

58 0.0 1.9 2.9#



#20

Methylene Chloride

Concen: 0.389 ppbv

RT: 3.880 min Scan# 397

Delta R.T. -0.051 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Tgt Ion: 84 Resp: 129

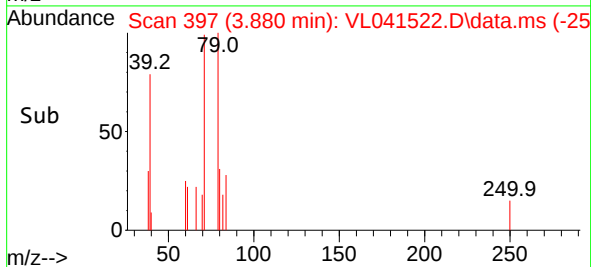
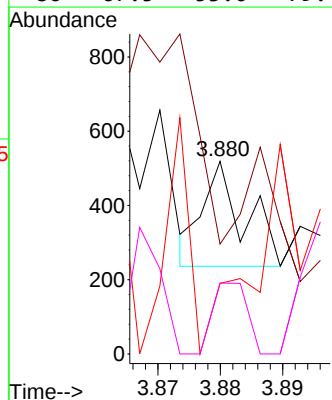
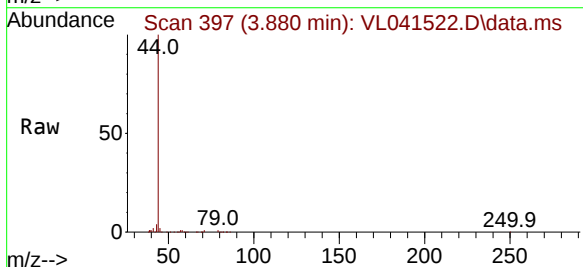
Ion Ratio Lower Upper

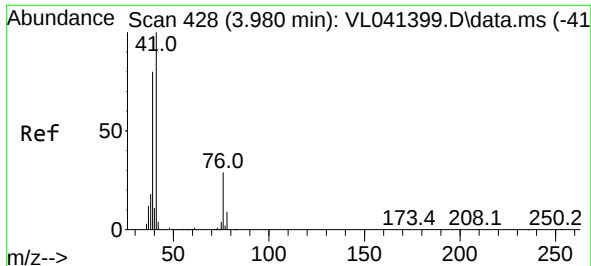
84 100

49 0.0 126.6 190.0#

51 0.0 38.6 58.0#

86 67.5 53.0 79.4





#21

Allyl Chloride

Concen: 0.819 ppbv

RT: 3.938 min Scan# 41

Delta R.T. -0.058 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

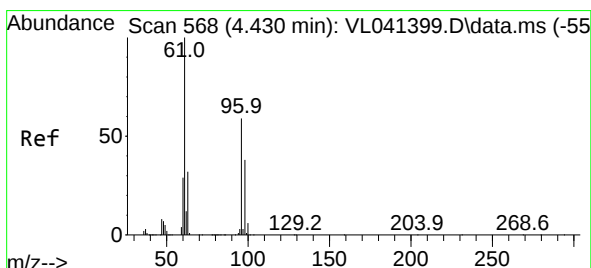
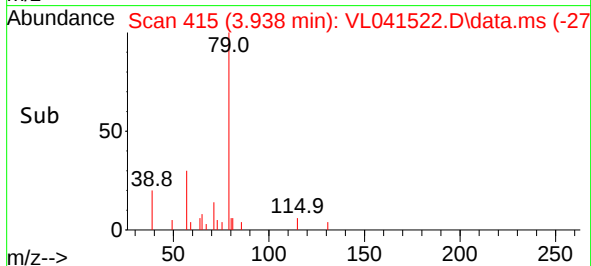
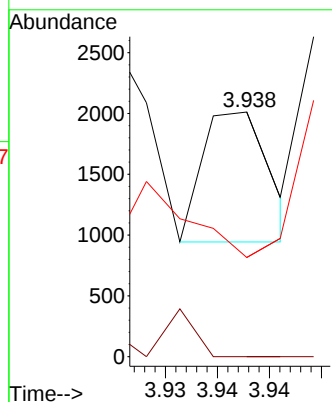
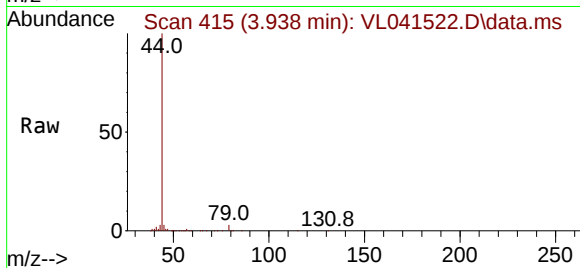
Tgt Ion: 41 Resp: 477

Ion Ratio Lower Upper

41 100

76 0.0 23.7 35.5#

39 663.7 64.3 96.5#



#22

trans-1,2-Dichloroethene

Concen: 0.438 ppbv

RT: 4.822 min Scan# 690

Delta R.T. 0.379 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

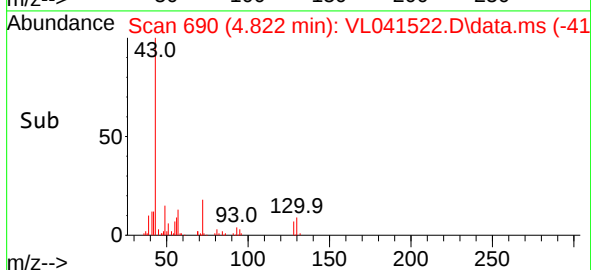
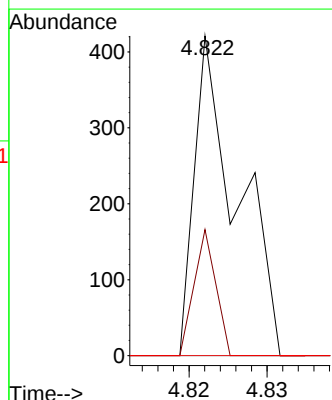
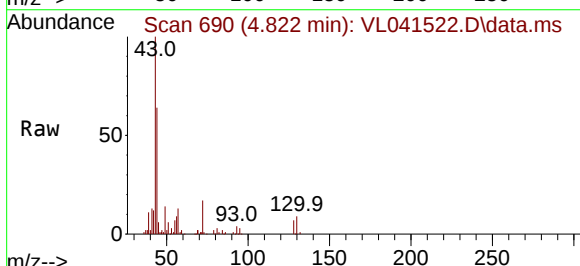
Tgt Ion: 96 Resp: 161

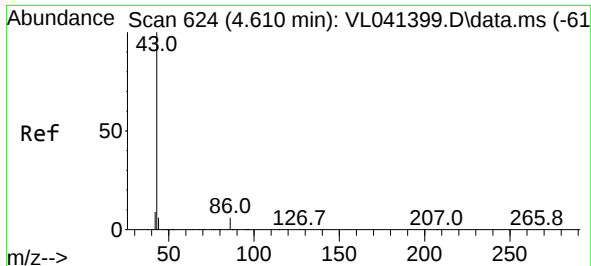
Ion Ratio Lower Upper

96 100

61 39.4 135.4 203.2#

98 0.0 51.0 76.4#

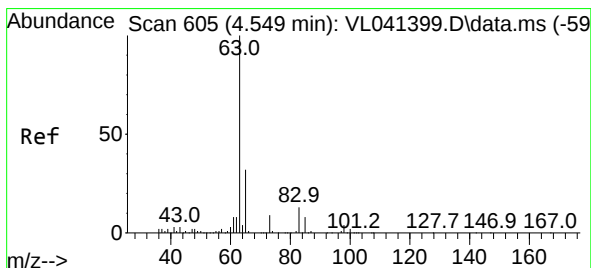
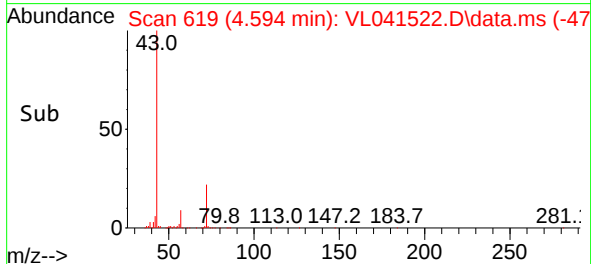
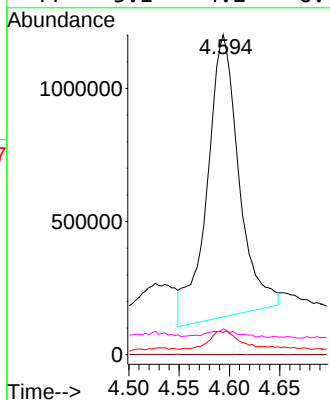
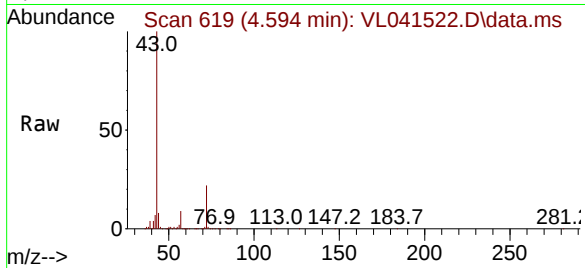




#23
 Vinyl Acetate
 Concen: 3445.729 ppbv
 RT: 4.594 min Scan# 61
 Delta R.T. -0.032 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

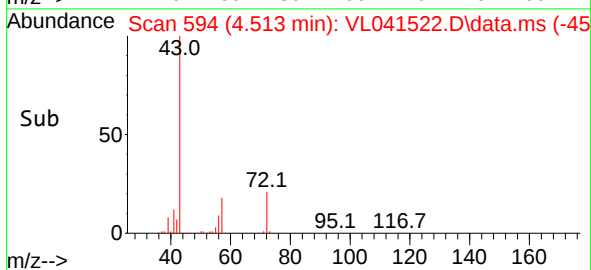
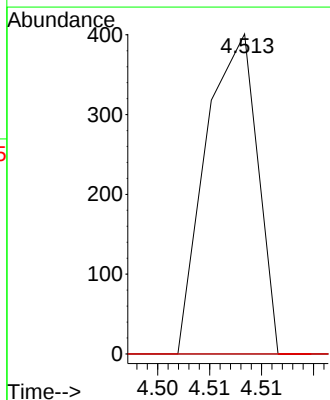
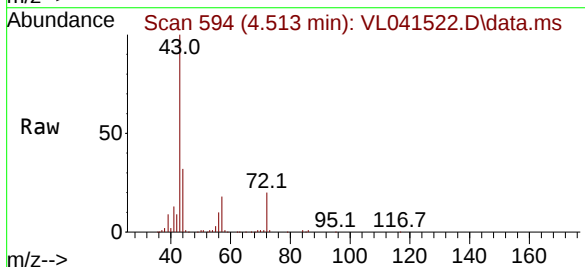
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

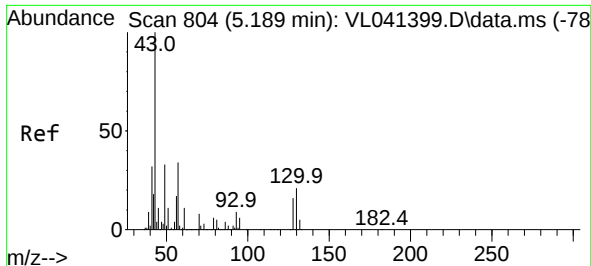
Tgt Ion: 43 Resp: 2337942
 Ion Ratio Lower Upper
 43 100
 86 0.0 4.6 6.8#
 42 6.5 7.9 11.9#
 44 3.1 4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 0.174 ppbv
 RT: 4.513 min Scan# 594
 Delta R.T. -0.048 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

Tgt Ion: 63 Resp: 139
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.0 6.0#
 100 0.0 1.2 3.6#





#25

Ethyl Acetate

Concen: 1.601 ppbv

RT: 5.144 min Scan# 791

Delta R.T. -0.058 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

Tgt Ion: 43 Resp: 2825

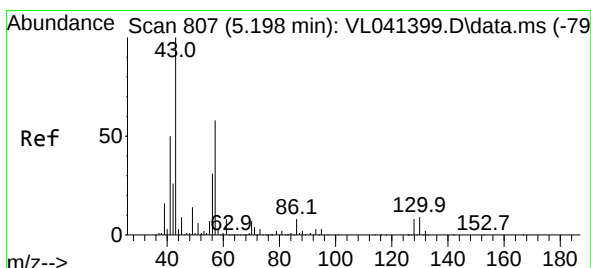
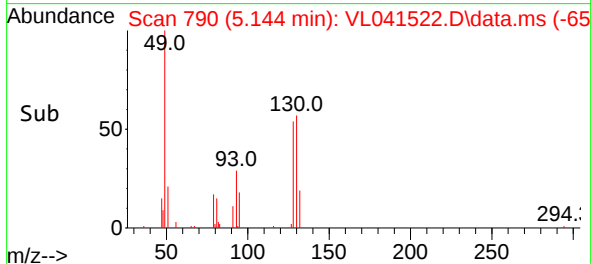
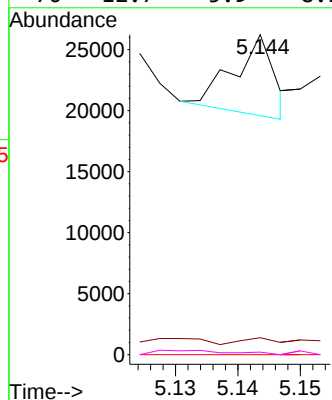
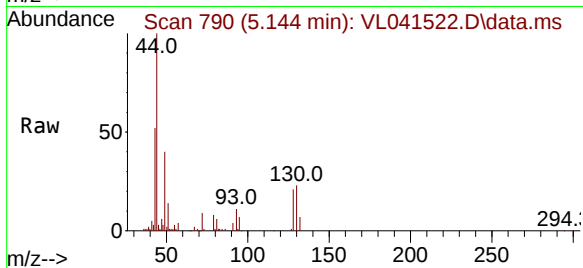
Ion Ratio Lower Upper

43 100

45 32.7 8.5 12.7#

61 0.0 8.0 12.0#

70 12.7 5.9 8.9#



#26

Hexane

Concen: 0.576 ppbv

RT: 5.156 min Scan# 794

Delta R.T. -0.055 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Tgt Ion: 57 Resp: 422

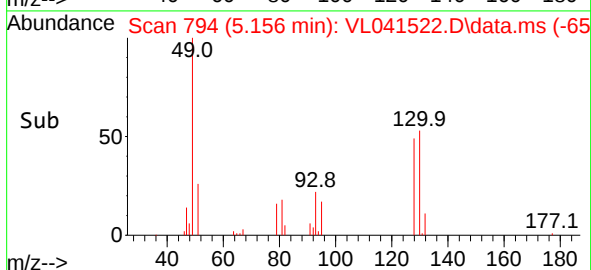
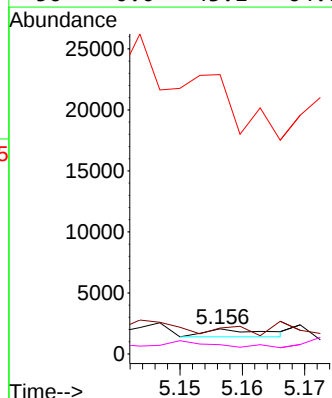
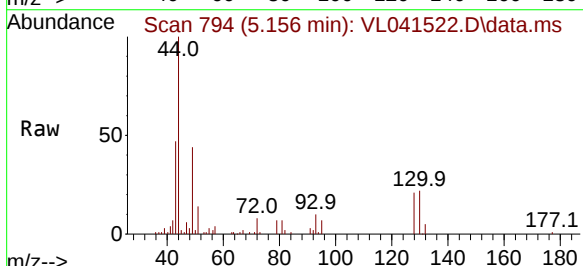
Ion Ratio Lower Upper

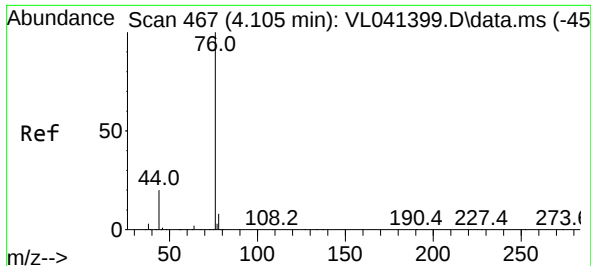
57 100

41 0.0 74.0 111.0#

43 0.0 193.6 290.4#

56 0.0 43.1 64.7#





#27

Carbon Disulfide

Concen: 0.074 ppbv

RT: 4.182 min Scan# 491

Delta R.T. 0.058 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

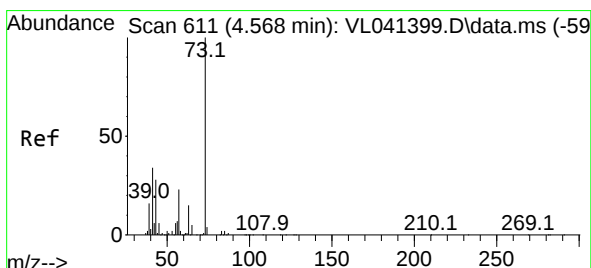
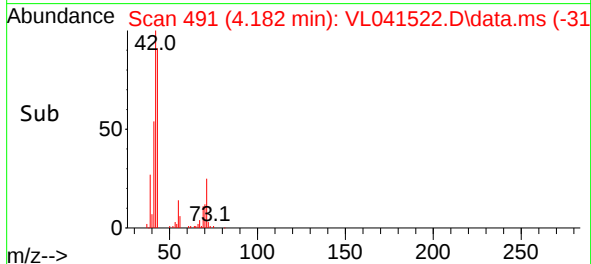
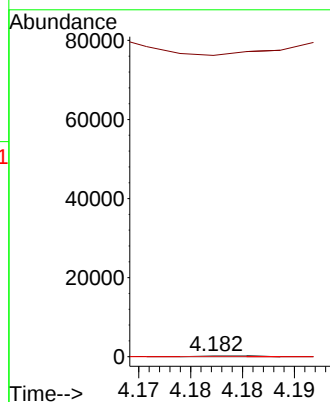
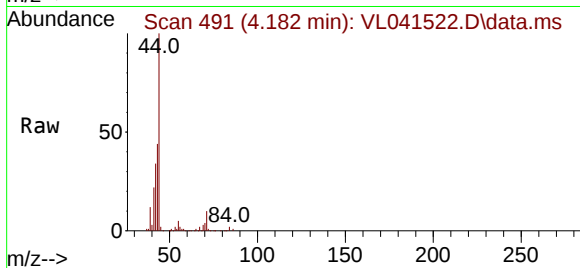
Tgt Ion: 76 Resp: 63

Ion Ratio Lower Upper

76 100

44 33098.4 15.6 23.4#

78 563.5 7.7 11.5#



#28

Methyl tert-Butyl Ether

Concen: 8.657 ppbv

RT: 4.526 min Scan# 598

Delta R.T. -0.055 min

Lab File: VL041522.D

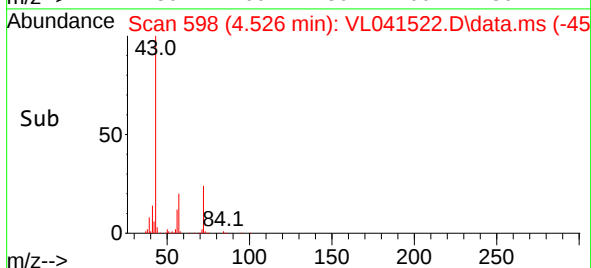
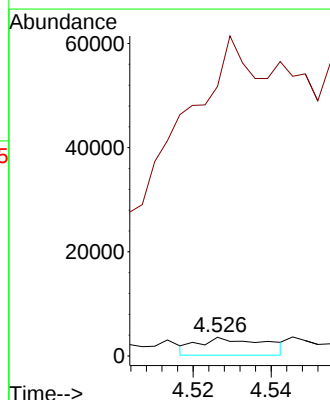
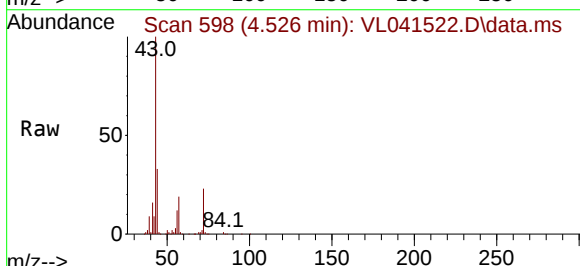
Acq: 8 Aug 2024 21:20

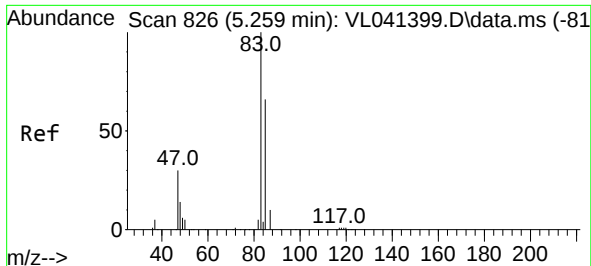
Tgt Ion: 73 Resp: 3997

Ion Ratio Lower Upper

73 100

57 4847.9 18.9 28.3#





#29

Chloroform

Concen: 0.041 ppbv

RT: 5.465 min Scan# 84

Delta R.T. 0.193 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

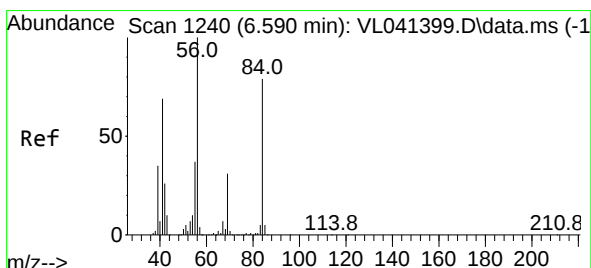
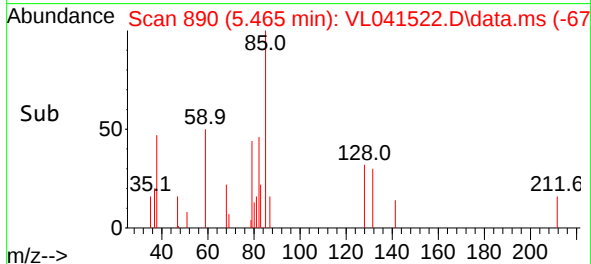
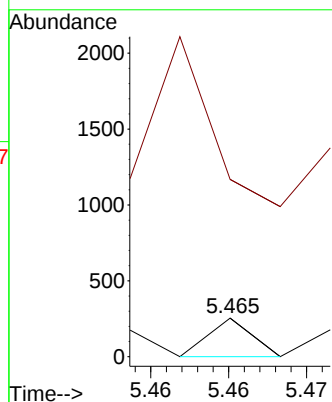
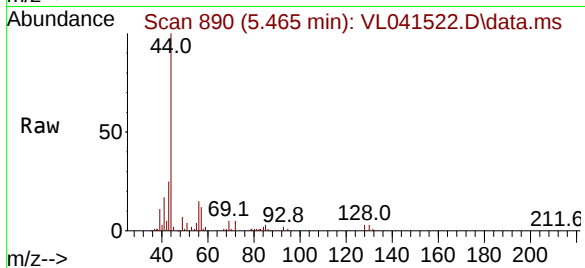
SV-1

Tgt Ion: 83 Resp: 49

Ion Ratio Lower Upper

83 100

85 70.9 53.1 79.7



#30

Cyclohexane

Concen: 2.467 ppbv

RT: 6.523 min Scan# 1219

Delta R.T. -0.074 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

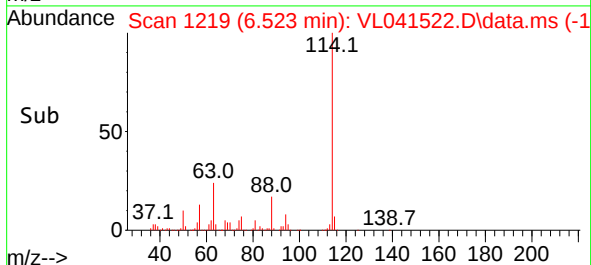
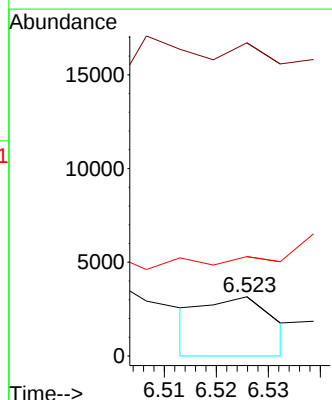
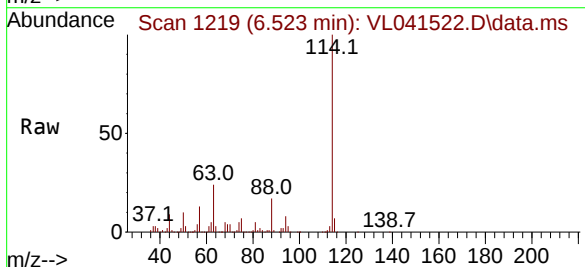
Tgt Ion: 84 Resp: 1471

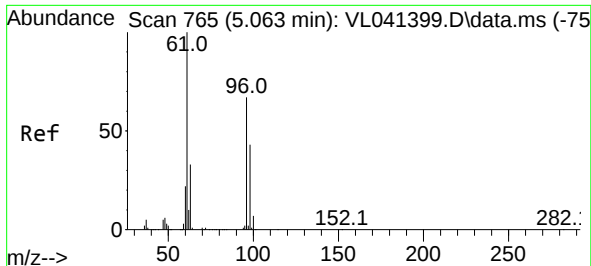
Ion Ratio Lower Upper

84 100

56 0.0 111.2 166.8#

41 0.0 70.3 105.5#

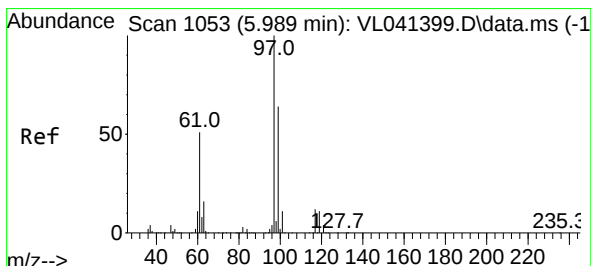
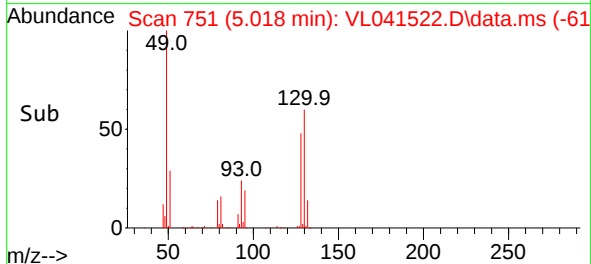
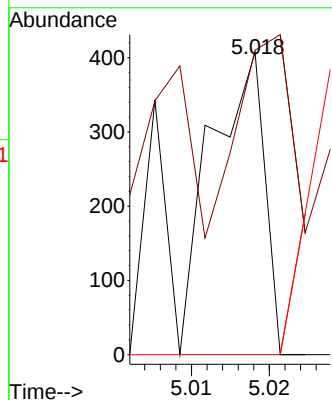
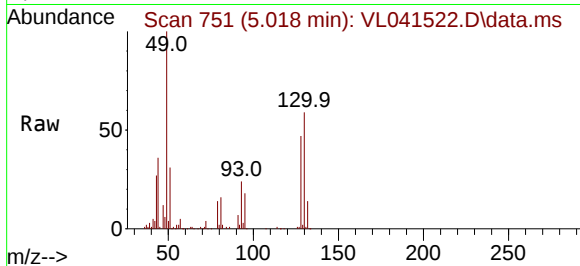




#31
 cis-1,2-Dichloroethene
 Concen: 0.270 ppbv
 RT: 5.018 min Scan# 71
 Delta R.T. -0.058 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

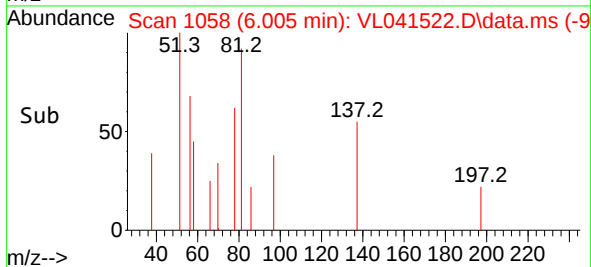
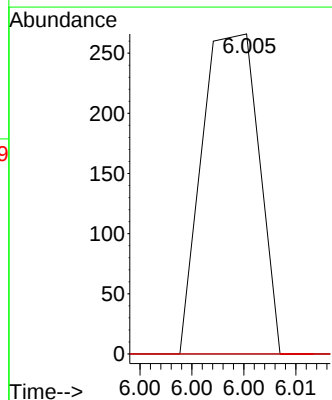
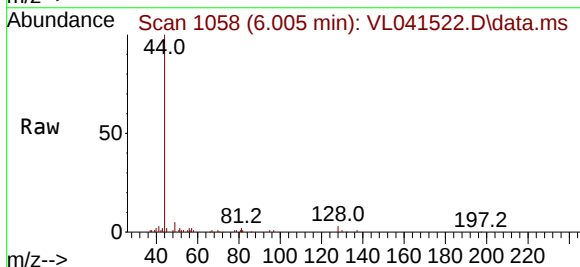
Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

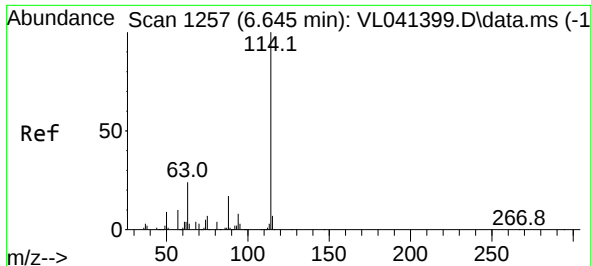
Tgt Ion: 61 Resp: 195
 Ion Ratio Lower Upper
 61 100
 96 5.2 53.4 80.2#
 98 0.0 34.4 51.6#



#32
 1,1,1-Trichloroethane
 Concen: 0.088 ppbv
 RT: 6.005 min Scan# 1058
 Delta R.T. 0.006 min
 Lab File: VL041522.D
 Acq: 8 Aug 2024 21:20

Tgt Ion: 97 Resp: 102
 Ion Ratio Lower Upper
 97 100
 99 80.4 52.0 78.0#
 61 118.6 41.8 62.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.523 min Scan# 11

Delta R.T. -0.125 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

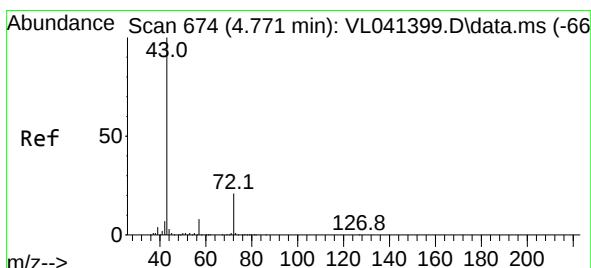
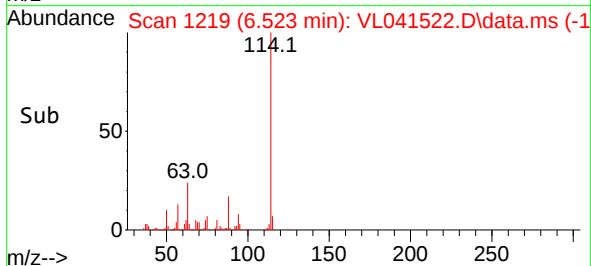
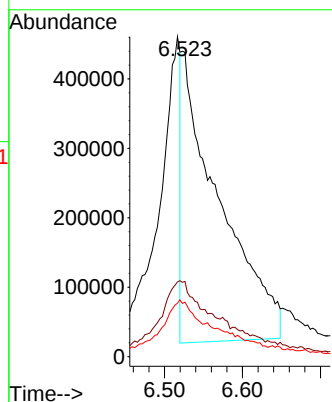
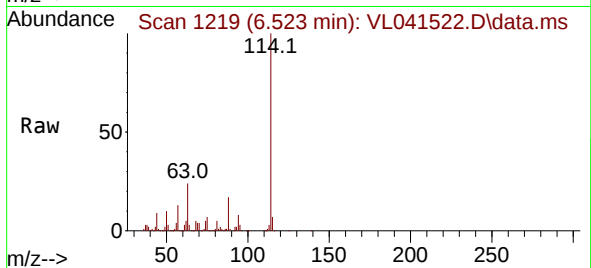
Tgt Ion:114 Resp: 1395096

Ion Ratio Lower Upper

114 100

63 47.6 20.3 30.5#

88 33.4 14.3 21.5#



#34

2-Butanone

Concen: 0.375 ppbv

RT: 4.719 min Scan# 658

Delta R.T. -0.064 min

Lab File: VL041522.D

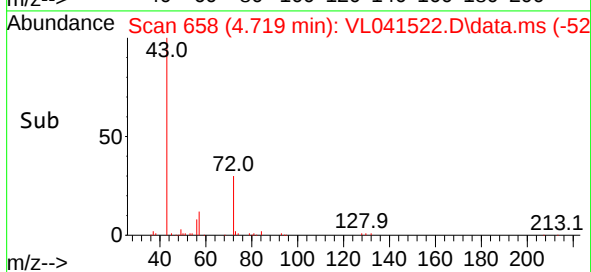
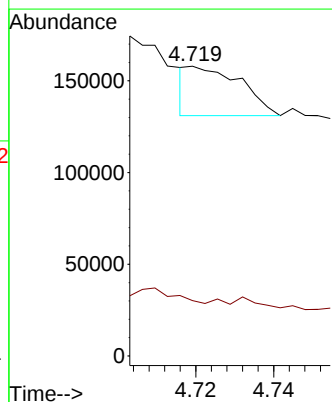
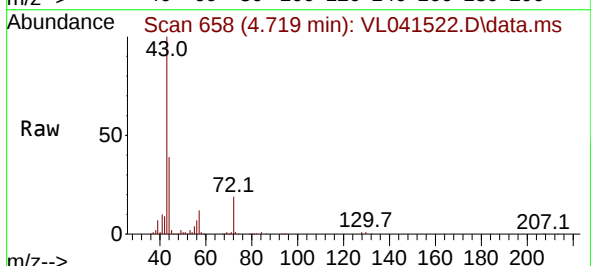
Acq: 8 Aug 2024 21:20

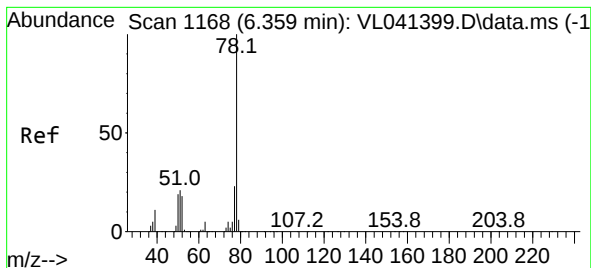
Tgt Ion: 43 Resp: 25291

Ion Ratio Lower Upper

43 100

72 0.0 17.3 25.9#





#36

Benzene

Concen: 0.032 ppbv

RT: 6.243 min Scan# 1168

Delta R.T. -0.125 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

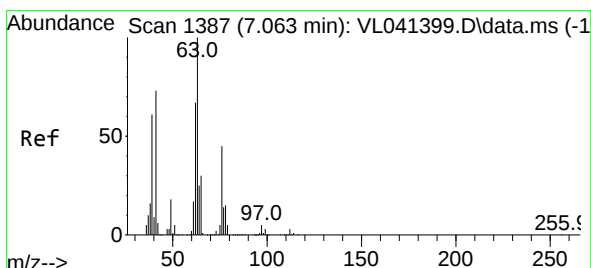
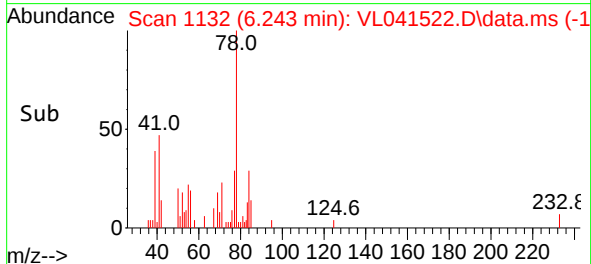
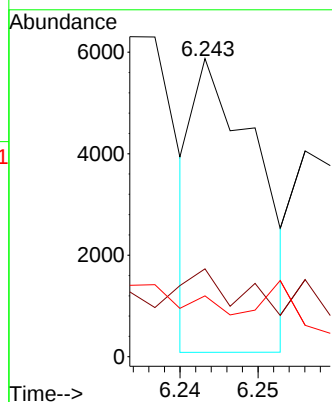
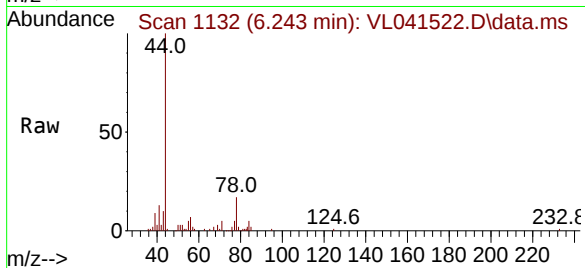
Tgt Ion: 78 Resp: 3280

Ion Ratio Lower Upper

78 100

77 27.4 18.1 27.1#

50 7.3 15.5 23.3#



#39

1,2-Dichloropropane

Concen: 0.045 ppbv

RT: 6.729 min Scan# 1283

Delta R.T. -0.341 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

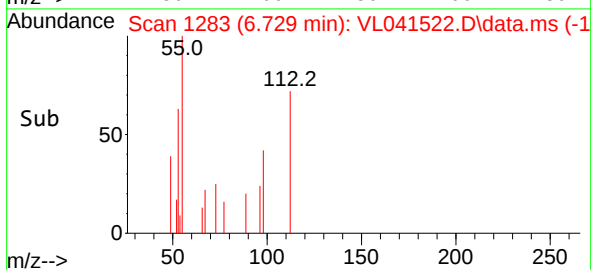
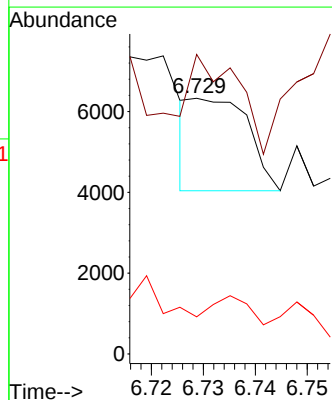
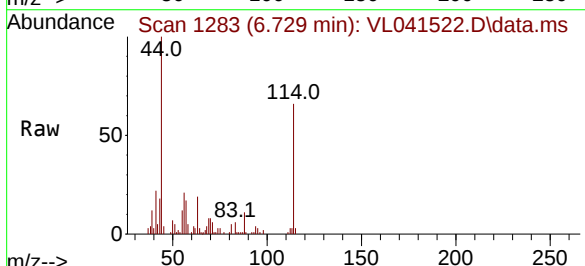
Tgt Ion: 63 Resp: 1762

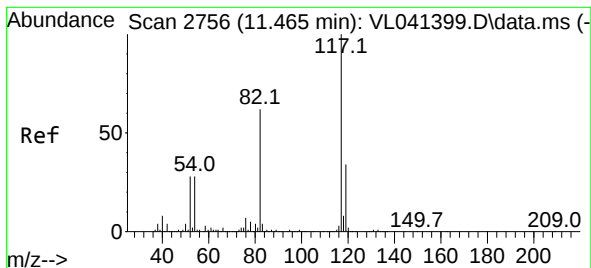
Ion Ratio Lower Upper

63 100

41 67.0 58.3 87.5

62 0.0 53.9 80.9#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.330 min Scan# 21

Delta R.T. -0.132 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

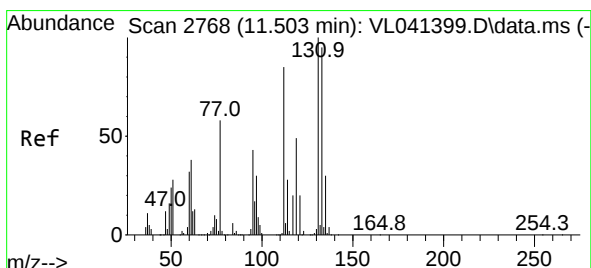
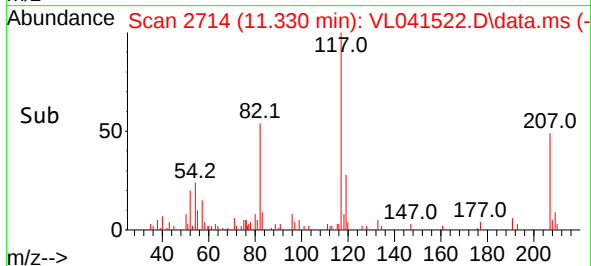
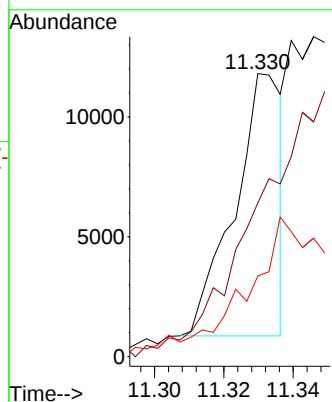
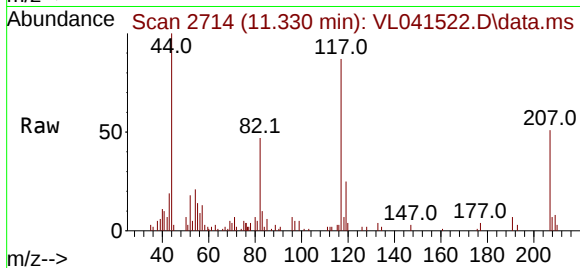
Tgt Ion:117 Resp: 10377

Ion Ratio Lower Upper

117 100

82 0.0 51.0 76.6#

119 0.0 45.2 67.8#



#56

1,1,1,2-Tetrachloroethane

Concen: 0.216 ppbv

RT: 11.320 min Scan# 2711

Delta R.T. -0.183 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

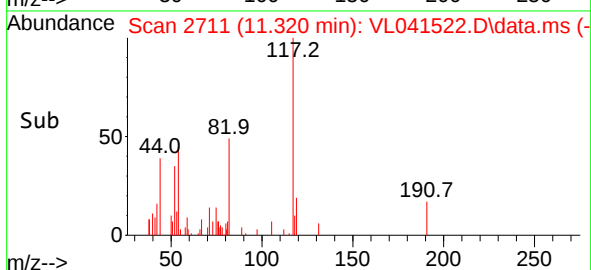
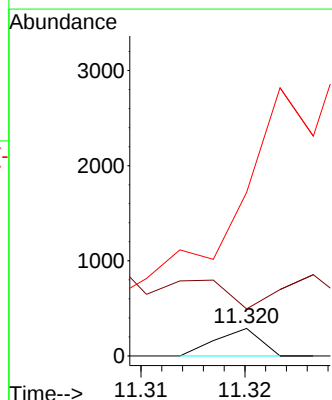
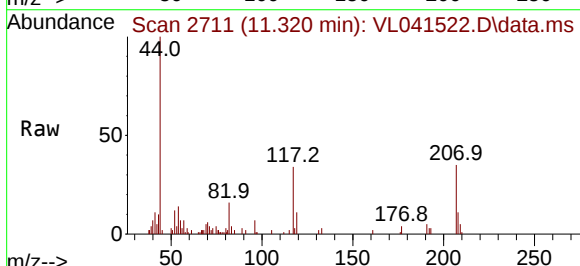
Tgt Ion:131 Resp: 87

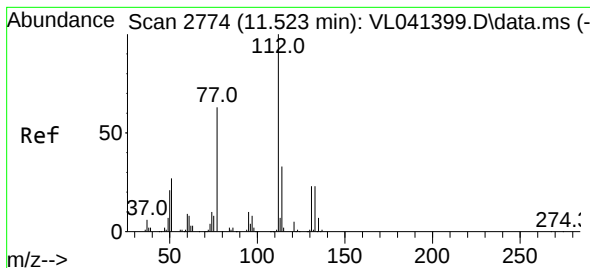
Ion Ratio Lower Upper

131 100

133 2967.8 77.0 115.4#

119 0.0 121.5 182.3#

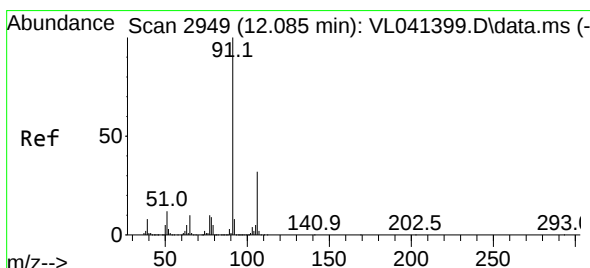
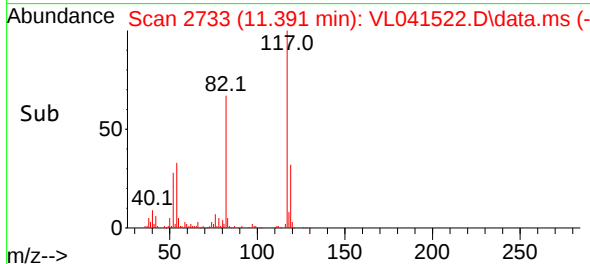
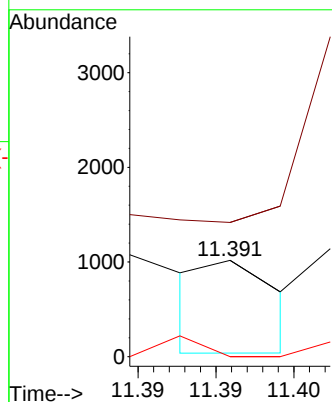
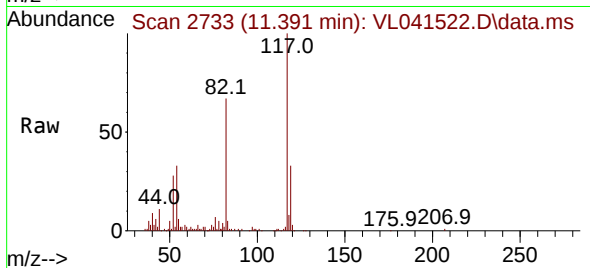




#57
Chlorobenzene
Concen: 0.425 ppbv
RT: 11.391 min Scan# 211
Delta R.T. -0.129 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

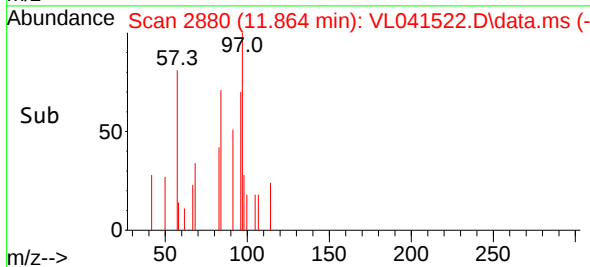
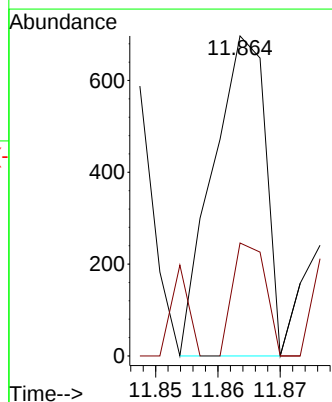
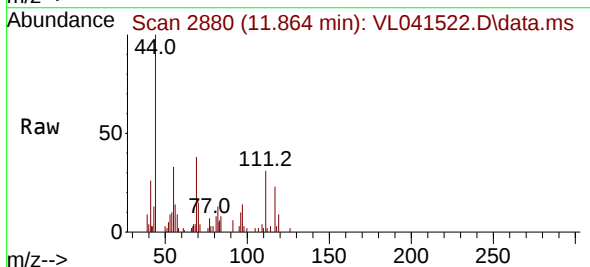
Instrument :
MSVOA_L
ClientSampleId :
SV-1

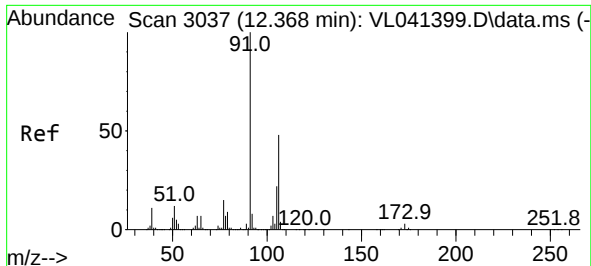
Tgt Ion:112 Resp: 314
Ion Ratio Lower Upper
112 100
77 0.0 51.1 76.7#
114 0.0 29.5 36.1#



#58
Ethyl Benzene
Concen: 0.342 ppbv
RT: 11.864 min Scan# 2880
Delta R.T. -0.222 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 91 Resp: 409
Ion Ratio Lower Upper
91 100
106 35.3 25.8 38.8





#59

m/p-Xylene

Concen: 1.822 ppbv

RT: 12.211 min Scan# 2988

Delta R.T. -0.157 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

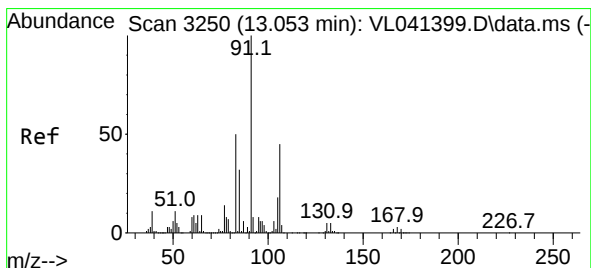
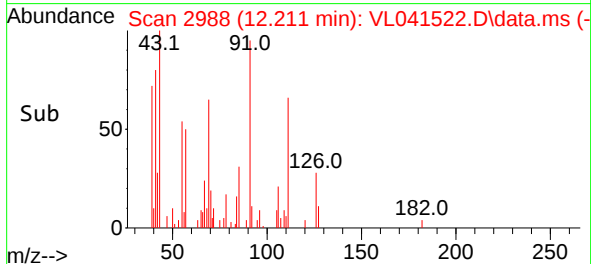
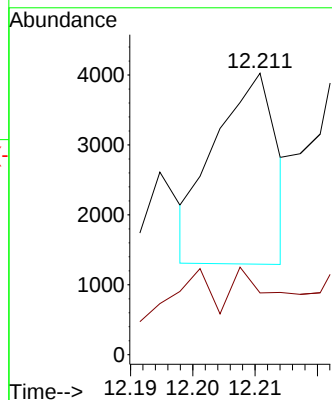
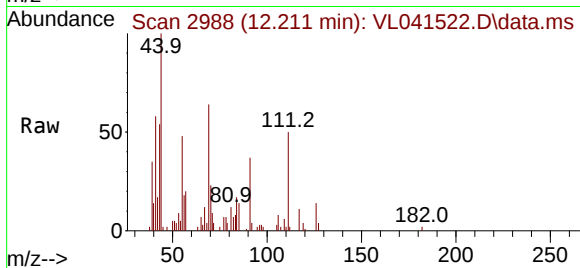
SV-1

Tgt Ion: 91 Resp: 1881

Ion Ratio Lower Upper

91 100

106 0.0 36.3 54.5#



#60

o-Xylene

Concen: 0.376 ppbv

RT: 12.899 min Scan# 3202

Delta R.T. -0.154 min

Lab File: VL041522.D

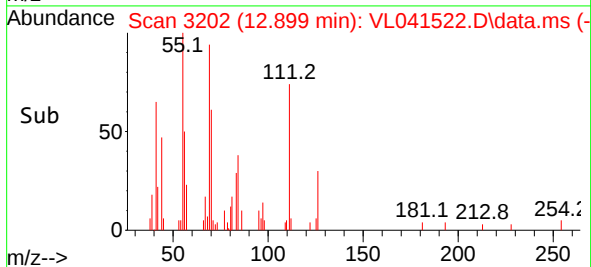
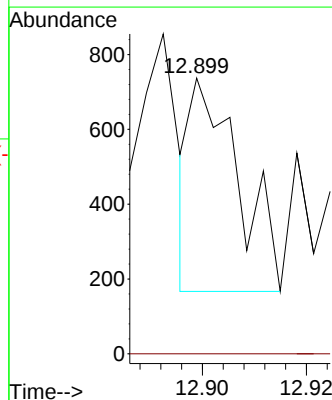
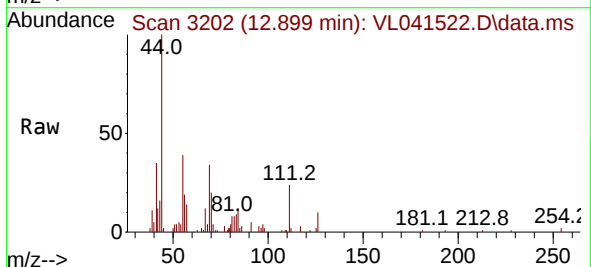
Acq: 8 Aug 2024 21:20

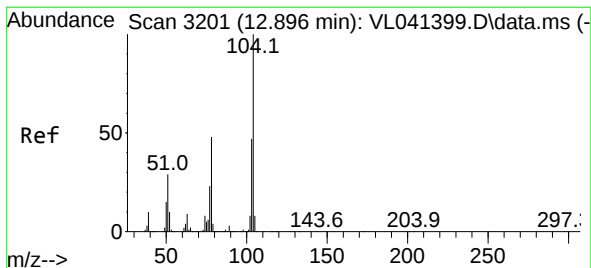
Tgt Ion: 91 Resp: 367

Ion Ratio Lower Upper

91 100

106 0.0 23.1 69.3#





#61

Styrene

Concen: 0.193 ppbv

RT: 12.561 min Scan# 3097

Delta R.T. -0.331 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

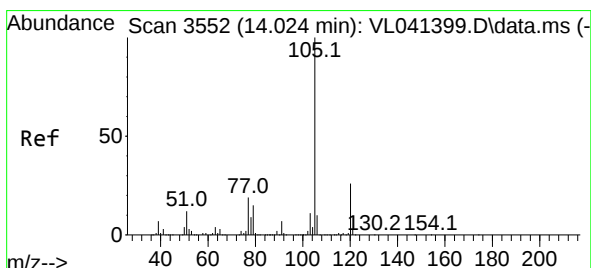
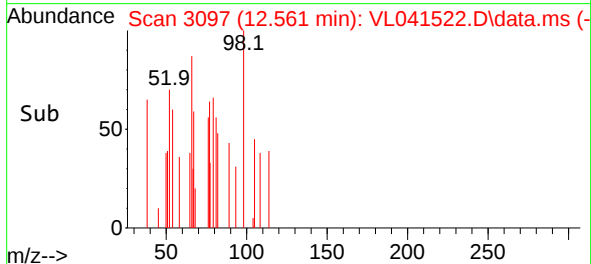
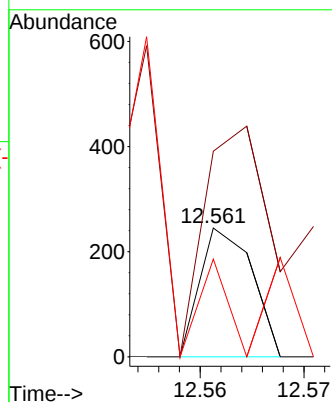
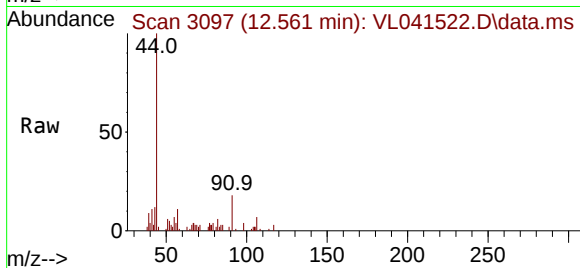
Tgt Ion:104 Resp: 85

Ion Ratio Lower Upper

104 100

78 287.1 40.8 61.2#

103 0.0 38.2 57.4#



#62

Isopropylbenzene

Concen: 0.182 ppbv

RT: 13.854 min Scan# 3499

Delta R.T. -0.167 min

Lab File: VL041522.D

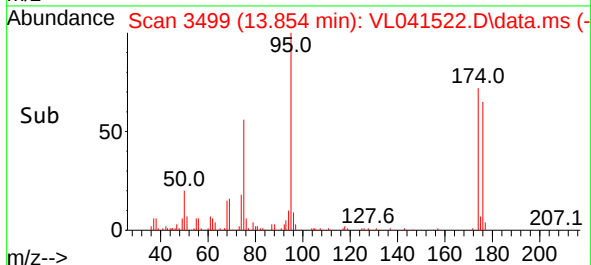
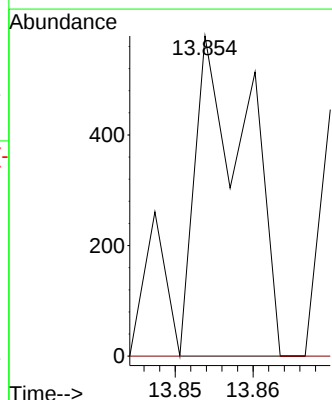
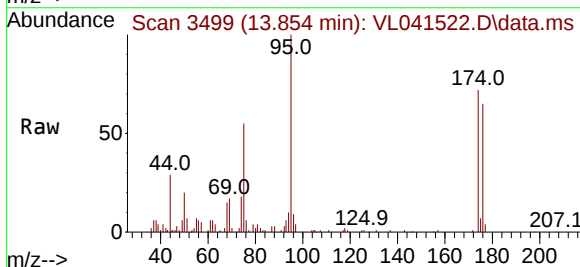
Acq: 8 Aug 2024 21:20

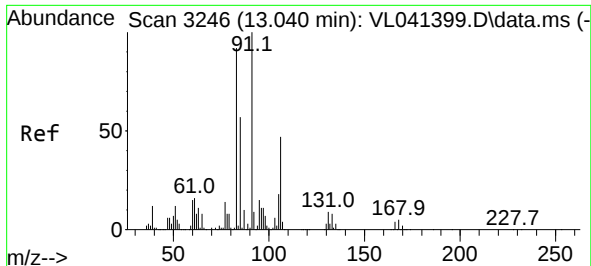
Tgt Ion:105 Resp: 270

Ion Ratio Lower Upper

105 100

120 0.0 21.0 31.4#





#63

1,1,2,2-Tetrachloroethane

Concen: 0.691 ppbv

RT: 12.892 min Scan# 31

Delta R.T. -0.148 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

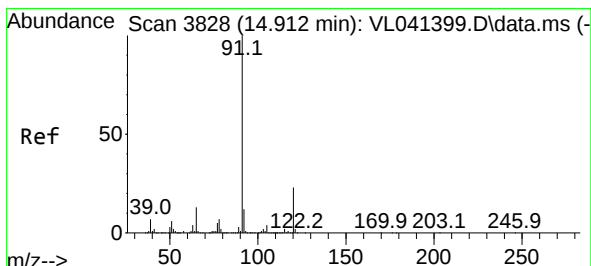
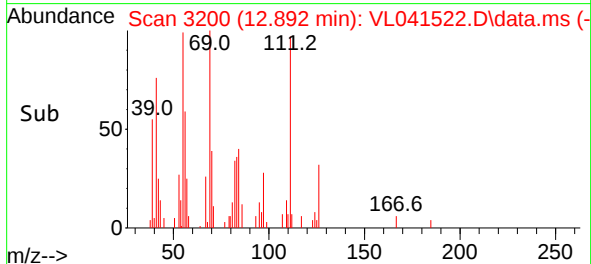
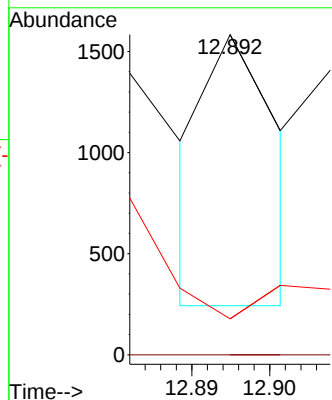
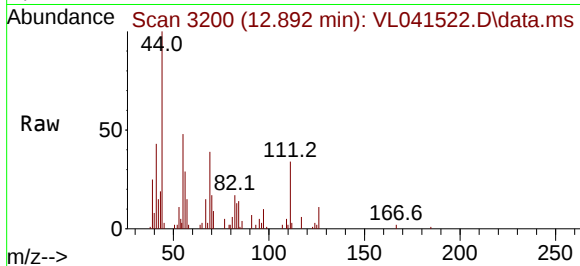
Tgt Ion: 83 Resp: 426

Ion Ratio Lower Upper

83 100

131 0.0 4.8 14.4#

85 0.0 32.6 98.0#



#64

n-propylbenzene

Concen: 0.216 ppbv

RT: 14.783 min Scan# 3788

Delta R.T. -0.129 min

Lab File: VL041522.D

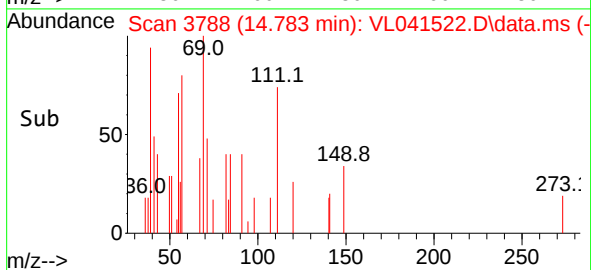
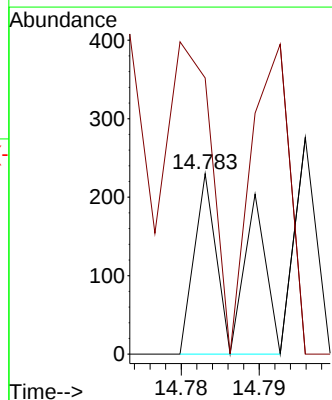
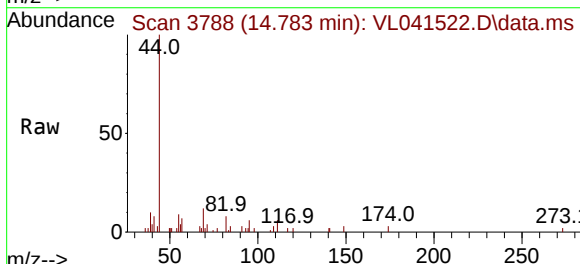
Acq: 8 Aug 2024 21:20

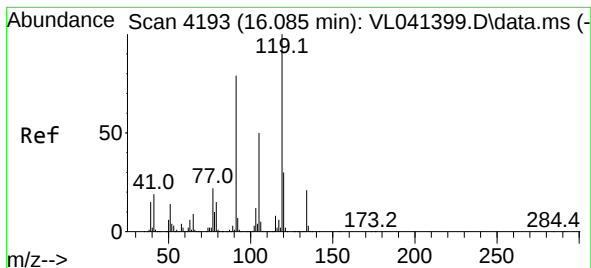
Tgt Ion:120 Resp: 84

Ion Ratio Lower Upper

120 100

91 779.8 361.4 542.0#

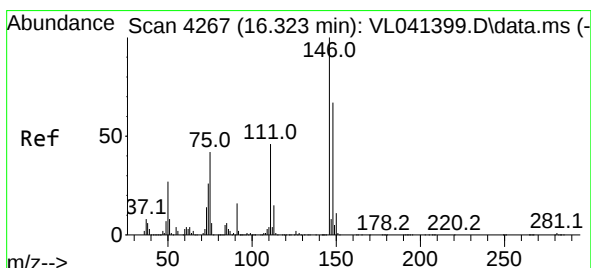
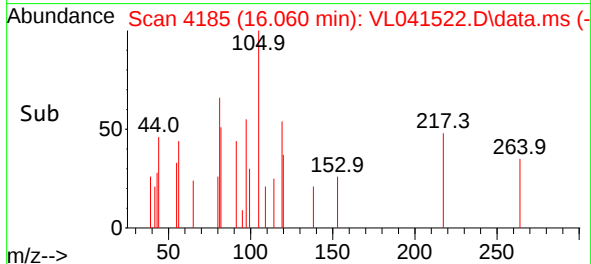
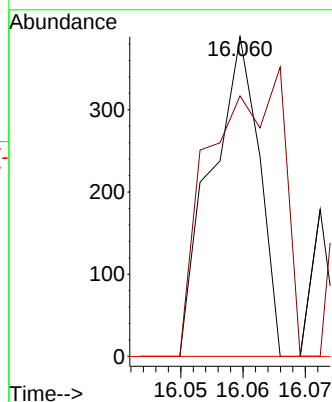
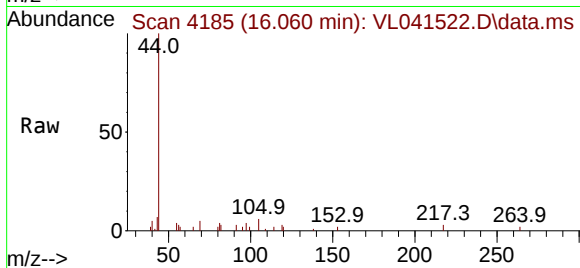




#65
tert-Butylbenzene
Concen: 0.156 ppbv
RT: 16.060 min Scan# 4193
Delta R.T. -0.022 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

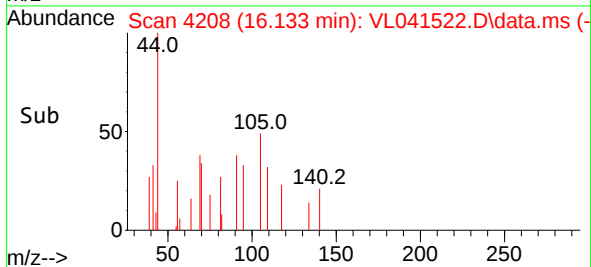
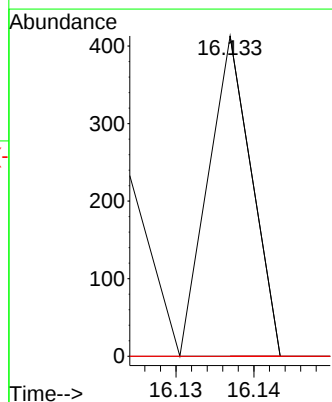
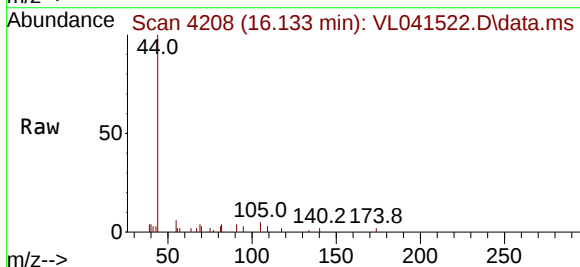
Instrument :
MSVOA_L
ClientSampleId :
SV-1

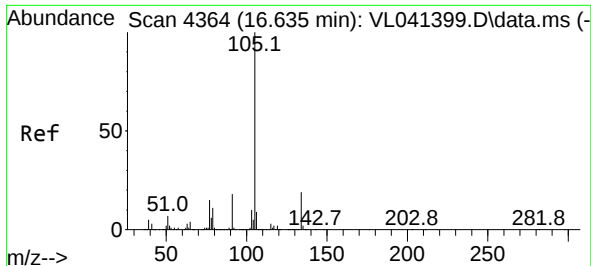
Tgt Ion:119 Resp: 209
Ion Ratio Lower Upper
119 100
91 434.0 64.2 96.2#
134 0.0 15.7 23.5#



#66
Benzyl Chloride
Concen: 0.930 ppbv
RT: 16.133 min Scan# 4208
Delta R.T. -0.186 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 91 Resp: 80
Ion Ratio Lower Upper
91 100
126 0.0 13.8 20.8#
128 0.0 4.4 6.6#





#67

sec-Butylbenzene

Concen: 0.034 ppbv

RT: 16.436 min Scan# 41

Delta R.T. -0.193 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

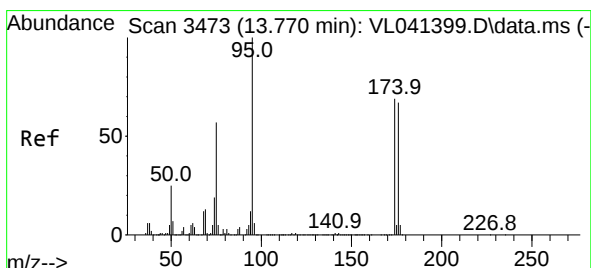
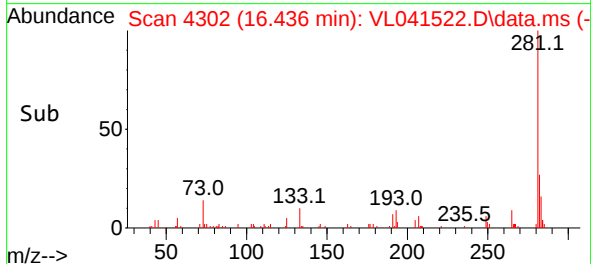
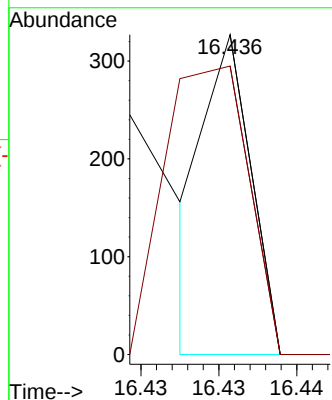
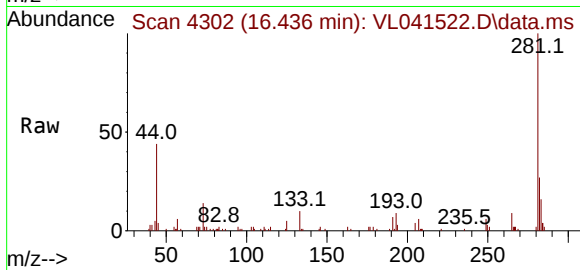
SV-1

Tgt Ion:105 Resp: 63

Ion Ratio Lower Upper

105 100

134 0.0 14.5 21.7#



#68

1-Bromo-4-Fluorobenzene

Concen: 612.246 ppbv

RT: 13.741 min Scan# 3464

Delta R.T. -0.026 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

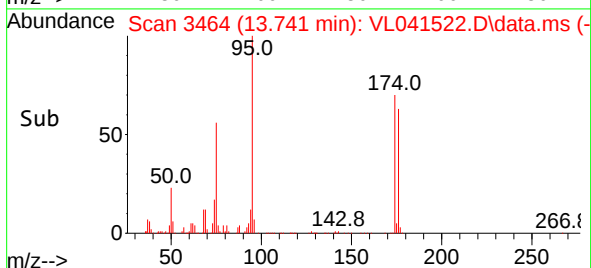
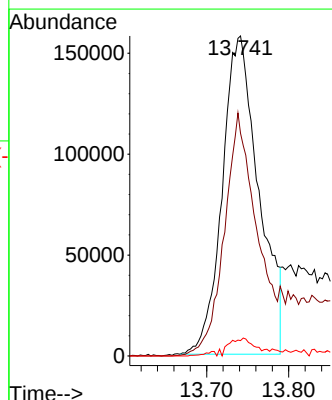
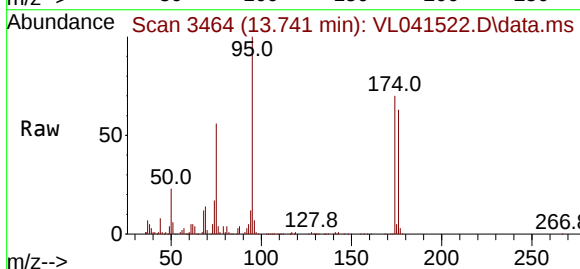
Tgt Ion: 95 Resp: 488924

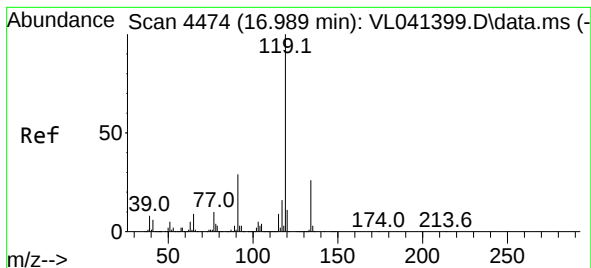
Ion Ratio Lower Upper

95 100

174 89.5 56.3 84.5#

175 5.3 4.0 6.0





#69

p-Isopropyltoluene

Concen: 0.163 ppbv

RT: 16.870 min Scan# 4474

Delta R.T. -0.119 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

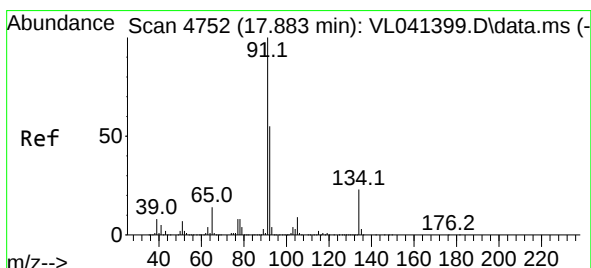
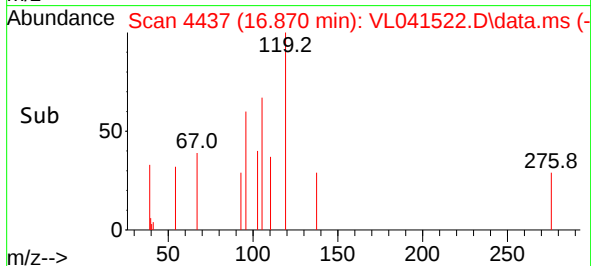
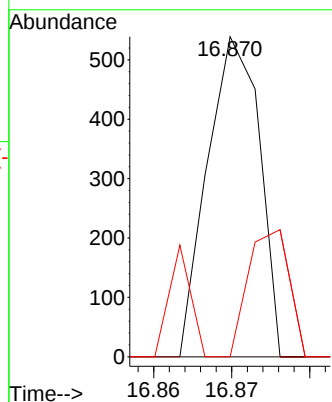
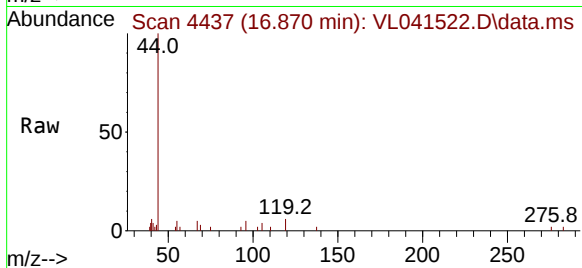
Tgt Ion:119 Resp: 250

Ion Ratio Lower Upper

119 100

134 0.0 20.5 30.7#

91 88.4 23.2 34.8#



#70

n-Butylbenzene

Concen: 0.087 ppbv

RT: 17.648 min Scan# 4679

Delta R.T. -0.231 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

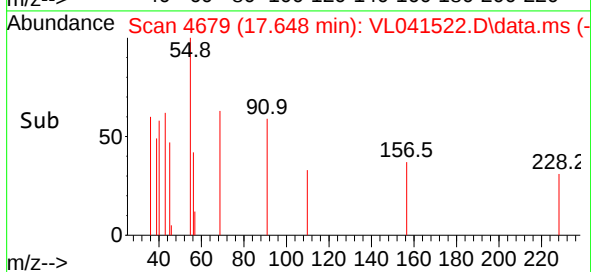
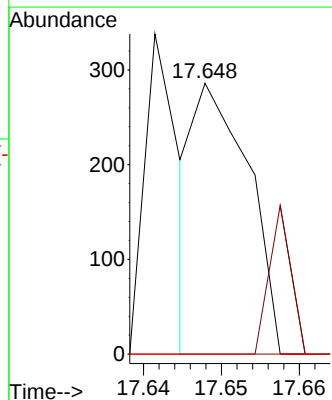
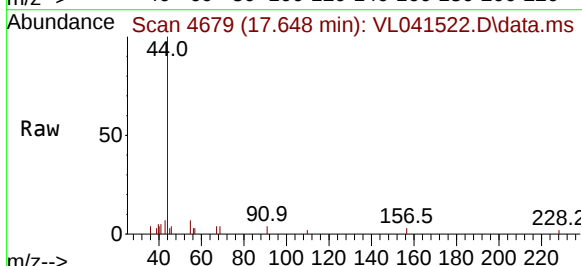
Tgt Ion: 91 Resp: 137

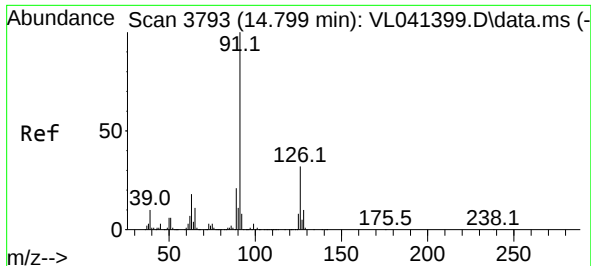
Ion Ratio Lower Upper

91 100

92 0.0 43.2 64.8#

134 0.0 18.5 27.7#

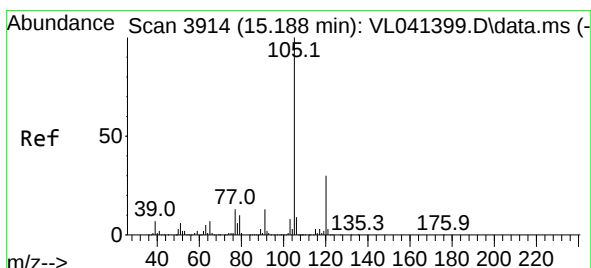
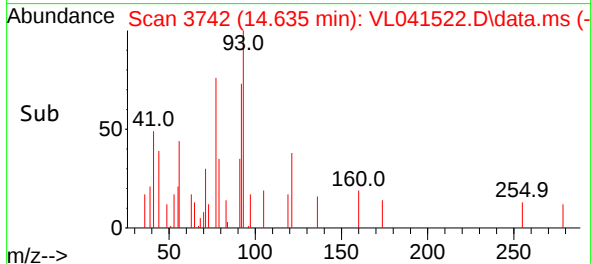
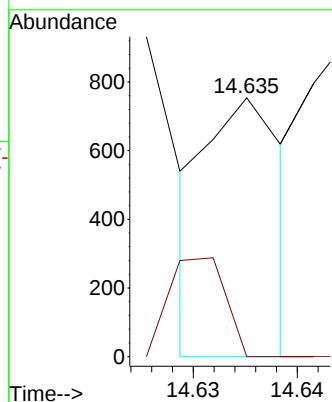
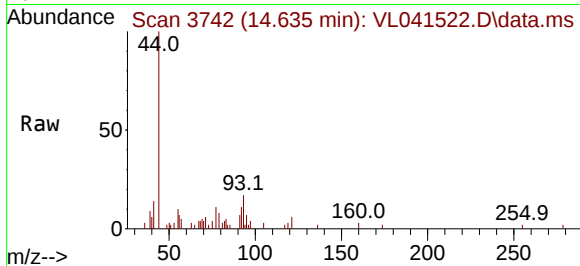




#71
2-Chlorotoluene
Concen: 0.353 ppbv
RT: 14.635 min Scan# 31
Delta R.T. -0.157 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

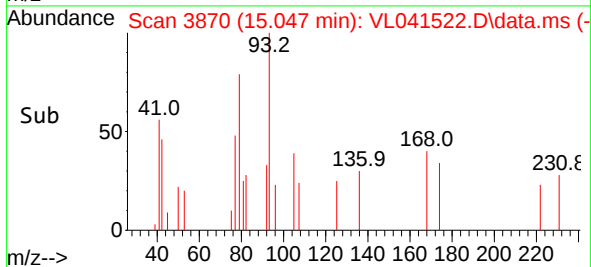
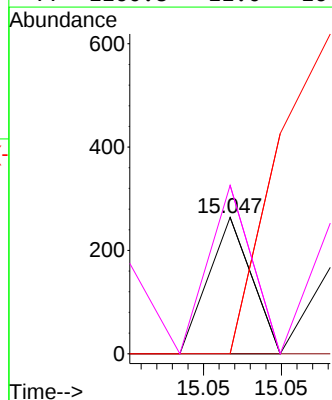
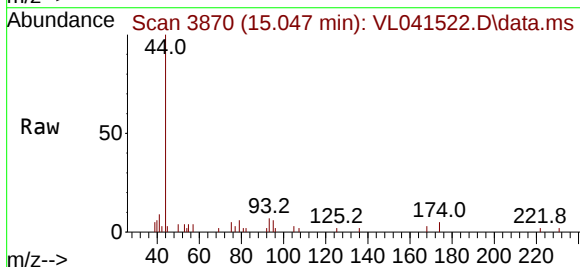
Instrument :
MSVOA_L
ClientSampleId :
SV-1

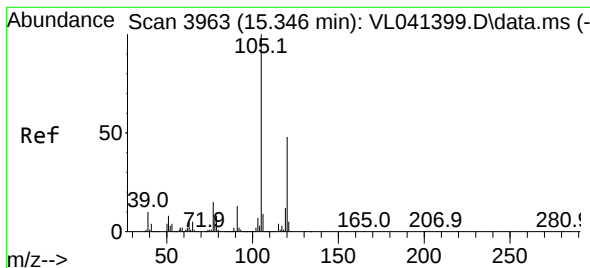
Tgt Ion: 91 Resp: 386
Ion Ratio Lower Upper
91 100
126 28.5 12.7 50.9



#72
4-Ethyltoluene
Concen: 0.044 ppbv
RT: 15.047 min Scan# 3870
Delta R.T. -0.141 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion: 105 Resp: 51
Ion Ratio Lower Upper
105 100
120 0.0 24.2 36.2#
91 619.6 10.4 15.6#
77 1160.8 11.0 16.4#





#73

1,3,5-Trimethylbenzene

Concen: 0.481 ppbv

RT: 15.166 min Scan# 3963

Delta R.T. -0.180 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

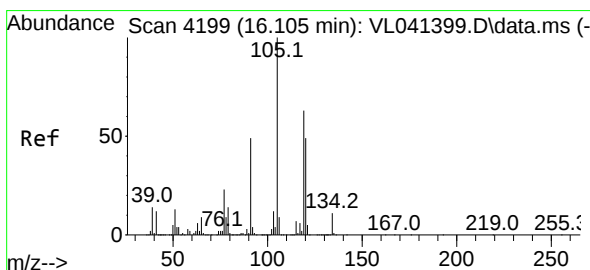
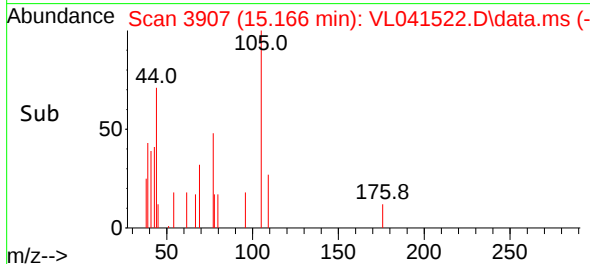
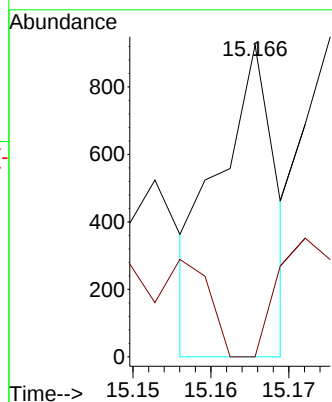
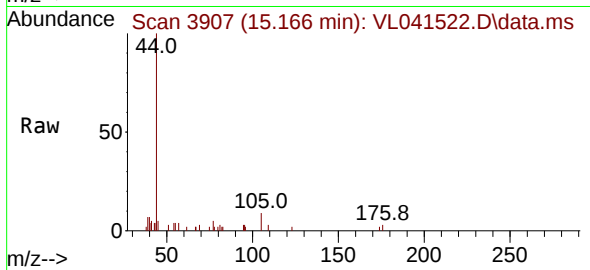
SV-1

Tgt Ion:105 Resp: 476

Ion Ratio Lower Upper

105 100

120 0.0 38.6 57.8#



#74

1,2,4-Trimethylbenzene

Concen: 0.065 ppbv

RT: 15.989 min Scan# 4163

Delta R.T. -0.112 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Tgt Ion:105 Resp: 75

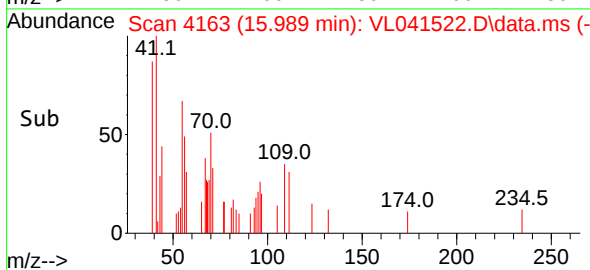
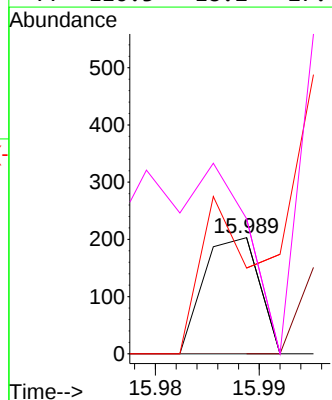
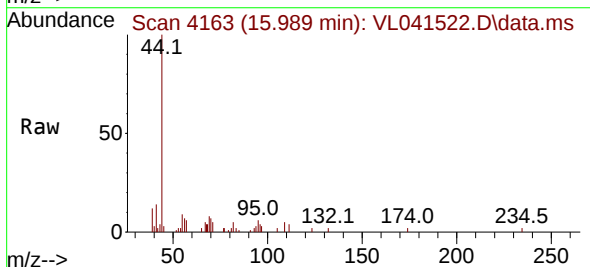
Ion Ratio Lower Upper

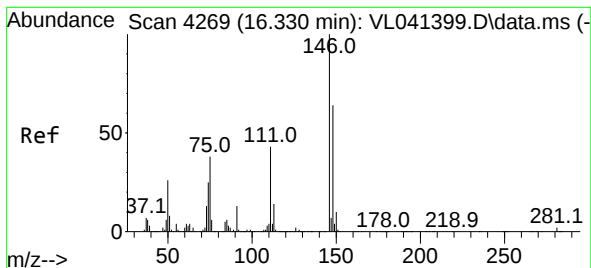
105 100

120 0.0 39.5 59.3#

91 73.9 39.8 59.8#

77 116.3 18.2 27.4#





#75

1,3-Dichlorobenzene

Concen: 2.941 ppbv

RT: 16.297 min Scan# 41

Delta R.T. -0.026 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

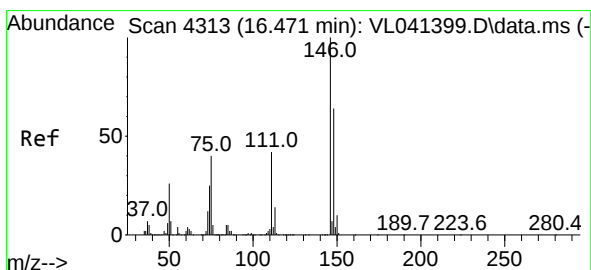
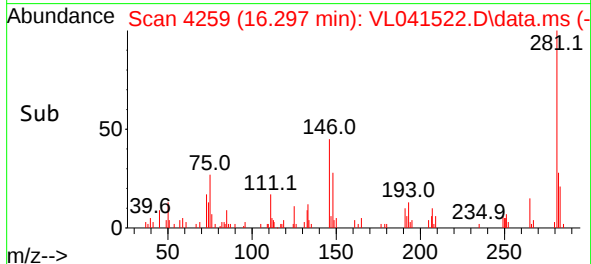
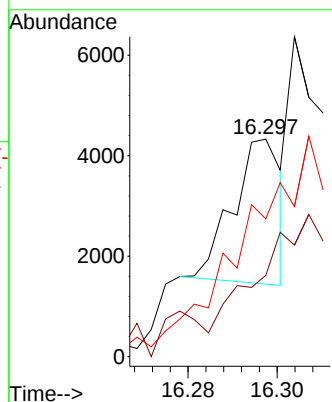
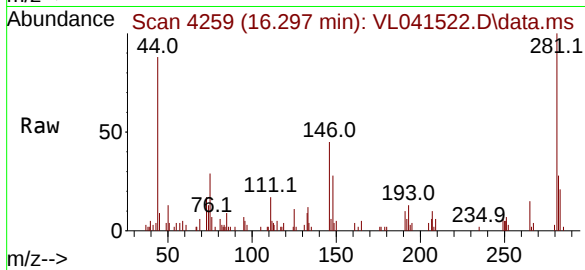
Tgt Ion:146 Resp: 2129

Ion Ratio Lower Upper

146 100

111 0.0 22.6 67.8#

148 0.0 32.3 96.8#



#76

1,4-Dichlorobenzene

Concen: 3.037 ppbv

RT: 16.297 min Scan# 4259

Delta R.T. -0.167 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

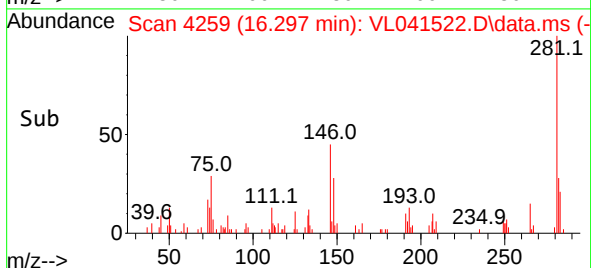
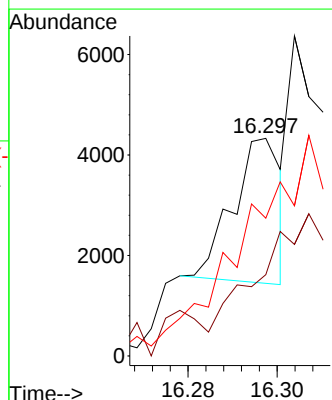
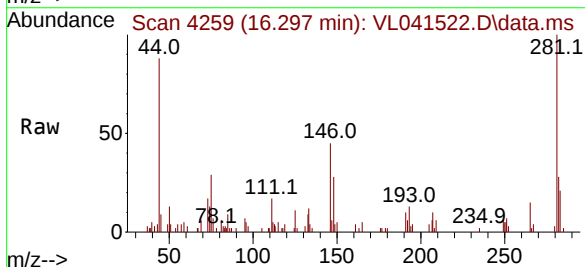
Tgt Ion:146 Resp: 2129

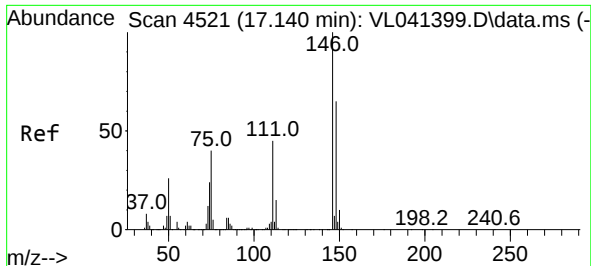
Ion Ratio Lower Upper

146 100

111 0.0 22.4 67.0#

148 0.0 33.1 99.5#

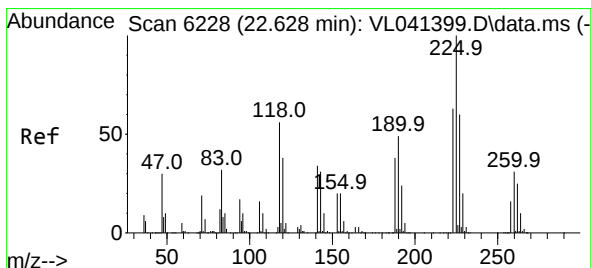
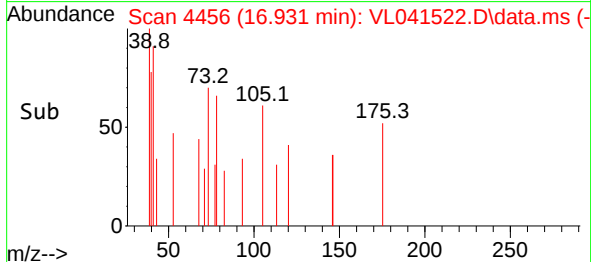
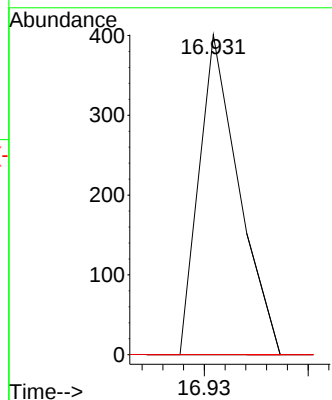
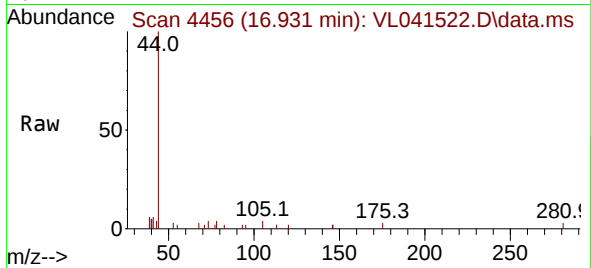




#77
1,2-Dichlorobenzene
Concen: 0.149 ppbv
RT: 16.931 min Scan# 4456
Delta R.T. -0.206 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

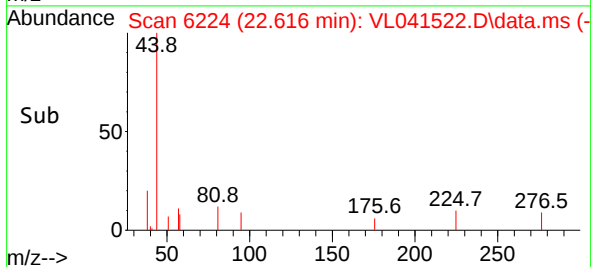
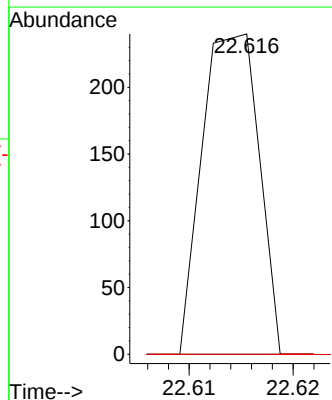
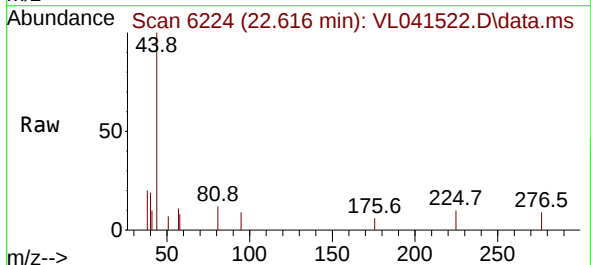
Instrument :
MSVOA_L
ClientSampleId :
SV-1

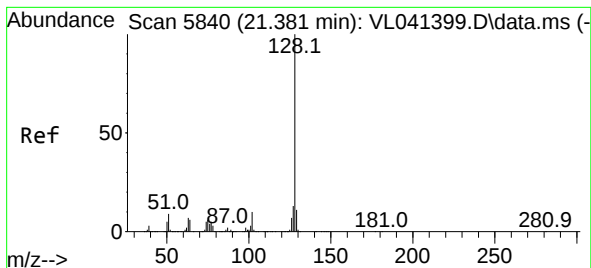
Tgt Ion:146 Resp: 107
Ion Ratio Lower Upper
146 100
111 119.6 23.4 70.0#
148 0.0 32.2 96.6#



#78
Hexachloro-1,3-Butadiene
Concen: 0.149 ppbv
RT: 22.616 min Scan# 6224
Delta R.T. -0.006 min
Lab File: VL041522.D
Acq: 8 Aug 2024 21:20

Tgt Ion:225 Resp: 91
Ion Ratio Lower Upper
225 100
223 0.0 50.6 76.0#
227 0.0 50.8 76.2#





#79

Naphthalene

Concen: 0.236 ppbv

RT: 21.362 min Scan# 5834

Delta R.T. -0.010 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Instrument :

MSVOA_L

ClientSampleId :

SV-1

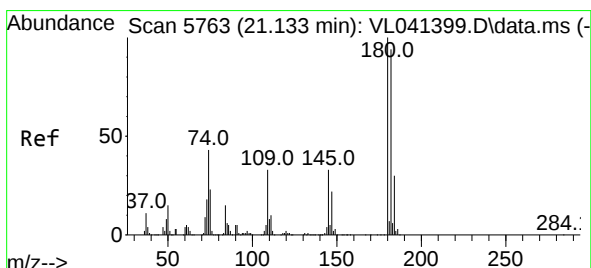
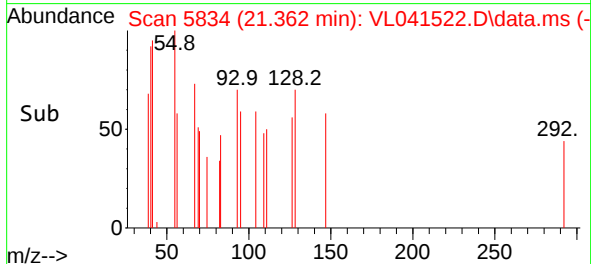
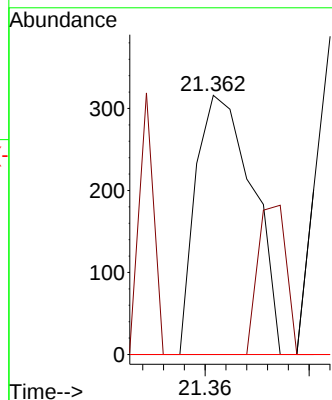
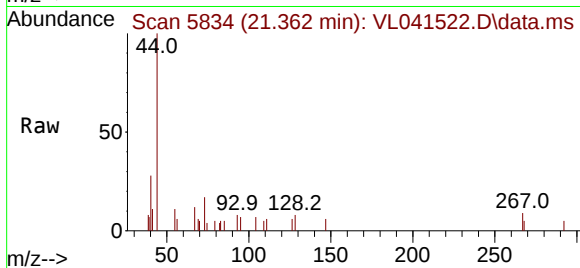
Tgt Ion:128 Resp: 240

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 9.0 13.4#



#81

1,2,4-Trichlorobenzene

Concen: 0.145 ppbv

RT: 20.863 min Scan# 5679

Delta R.T. -0.267 min

Lab File: VL041522.D

Acq: 8 Aug 2024 21:20

Tgt Ion:180 Resp: 88

Ion Ratio Lower Upper

180 100

182 0.0 76.7 115.1#

184 0.0 24.5 36.7#

