

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041253.D
 Acq On : 9 May 2024 11:28
 Operator : SY/MD
 Sample : P2403-15 MDL 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 10 01:25:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL042924AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 10 01:23:08 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.208	49	752281	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.668	114	2045422	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.478	117	1886193	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.790	95	1463725	10.279	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.800%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	72124	0.709	ppbv	98
3) Chlorodifluoromethane	2.694	51	61346	0.537	ppbv	95
4) Chloromethane	2.832	50	23221	0.518	ppbv	99
5) Vinyl Chloride	2.935	62	22610	0.502	ppbv	93
6) Bromomethane	3.140	94	9192	0.559	ppbv	88
7) Chloroethane	3.211	64	8322	0.523	ppbv #	85
8) Dichlorotetrafluoroethane	2.874	85	56178	0.533	ppbv	95
9) Propene	2.713	41	21366	0.478	ppbv	94
10) Heptane	7.597	43	24772	0.229	ppbv #	29
11) Trichlorofluoromethane	3.581	101	56996	0.551	ppbv	84
12) 1,1,2-Trichlorotrifluo...	4.079	101	27479	0.359	ppbv #	58
13) Ethanol	3.279	45	3082	0.307	ppbv #	61
14) Bromoethene	3.382	108	15148	0.480	ppbv #	90
15) Acetone	3.504	43	55018	0.620	ppbv	98
16) 1,3-Butadiene	3.002	39	22338	0.498	ppbv	97
17) tert-Butyl alcohol	3.909	59	36253	0.379	ppbv	97
18) 1,1-Dichloroethene	3.899	96	8001	0.235	ppbv	94
19) Isopropyl Alcohol	3.610	45	22172	0.381	ppbv #	52
20) Methylene Chloride	3.951	84	15842	0.513	ppbv	96
21) Allyl Chloride	4.015	41	28206	0.487	ppbv	90
22) trans-1,2-Dichloroethene	4.484	96	1444	0.041	ppbv	94
23) Vinyl Acetate	4.648	43	33034	0.338	ppbv #	86
24) 1,1-Dichloroethane	4.574	63	38181	0.502	ppbv #	97
25) Ethyl Acetate	5.230	43	82564	0.466	ppbv #	97
26) Hexane	5.230	57	36471	0.461	ppbv	97
27) Carbon Disulfide	4.140	76	42317	0.452	ppbv #	90
28) Methyl tert-Butyl Ether	4.610	73	13958	0.222	ppbv #	31
29) Chloroform	5.282	83	25483	0.234	ppbv	97
30) Cyclohexane	6.619	84	20520	0.328	ppbv #	61
31) cis-1,2-Dichloroethene	5.099	61	18734	0.253	ppbv	97
32) 1,1,1-Trichloroethane	6.015	97	56268	0.517	ppbv	96
34) 2-Butanone	4.816	43	44495	0.427	ppbv	99
35) Carbon Tetrachloride	6.507	117	55837	0.486	ppbv	96
36) Benzene	6.385	78	72810	0.424	ppbv	98
37) 1,2-Dichloroethane	5.822	62	42318	0.473	ppbv #	94
38) Trichloroethene	7.304	130	30807	0.482	ppbv	90
39) 1,2-Dichloropropane	7.082	63	30747	0.465	ppbv	94
41) Tetrahydrofuran	5.594	42	12635	0.168	ppbv #	30
42) Bromodichloromethane	7.266	83	60129	0.468	ppbv	98
43) Methyl Methacrylate	7.494	69	29069	0.419	ppbv	97
44) 2,2,4-Trimethylpentane	7.340	57	130808	0.442	ppbv	97
45) t-1,3-Dichloropropene	8.722	75	2353	0.047	ppbv	94
46) cis-1,3-Dichloropropene	8.156	75	21439	0.348	ppbv #	84

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL050924\
 Data File : VL041253.D
 Acq On : 9 May 2024 11:28
 Operator : SY/MD
 Sample : P2403-15 MDL 0.45
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

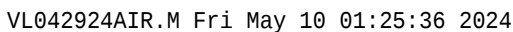
Instrument :
 MSVOA_L
 ClientSampleId :

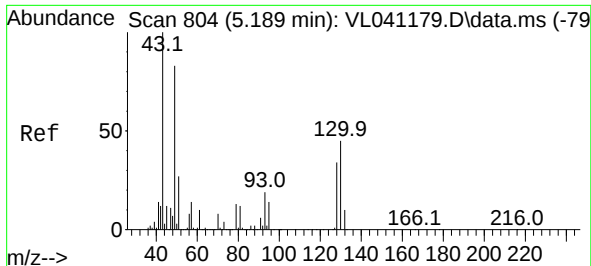
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 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri May 10 01:23:08 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	8.912	97	30345	0.458	ppbv	97
48) Dibromochloromethane	9.725	129	22056	0.209	ppbv #	1
49) Bromoform	12.420	173	35552	0.396	ppbv	98
50) 4-Methyl-2-Pentanone	8.214	43	36982	0.198	ppbv #	42
51) 2-Hexanone	9.590	43	29090	0.210	ppbv #	54
52) Tetrachloroethene	10.626	164	28734	0.476	ppbv	89
53) Toluene	9.233	91	48915	0.246	ppbv #	40
54) 1,2-Dibromoethane	10.024	107	39065	0.436	ppbv	91
56) 1,1,1,2-Tetrachloroethane	11.520	131	37481	0.490	ppbv #	1
57) Chlorobenzene	11.539	112	72022	0.521	ppbv	93
58) Ethyl Benzene	12.105	91	114105	0.441	ppbv	93
59) m/p-Xylene	12.384	91	102609	0.472	ppbv #	38
60) o-Xylene	13.069	91	96953	0.476	ppbv	98
61) Styrene	12.905	104	17746	0.165	ppbv #	20
62) Isopropylbenzene	14.044	105	144680	0.475	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.060	83	59170	0.426	ppbv	80
64) n-propylbenzene	14.925	120	35177	0.463	ppbv	85
65) tert-Butylbenzene	16.108	119	126861	0.465	ppbv	94
67) sec-Butylbenzene	16.651	105	180409	0.469	ppbv	98
69) p-Isopropyltoluene	17.005	119	61483	0.194	ppbv #	47
70) n-Butylbenzene	17.902	91	143240	0.433	ppbv	100
71) 2-Chlorotoluene	14.812	91	109816	0.473	ppbv	99
72) 4-Ethyltoluene	15.201	105	51723	0.224	ppbv #	53
73) 1,3,5-Trimethylbenzene	15.362	105	46233	0.221	ppbv	89
74) 1,2,4-Trimethylbenzene	16.121	105	66220	0.290	ppbv	98
75) 1,3-Dichlorobenzene	16.349	146	60105	0.460	ppbv	91
76) 1,4-Dichlorobenzene	16.487	146	59423	0.472	ppbv	91
77) 1,2-Dichlorobenzene	17.159	146	30027	0.230	ppbv #	2
78) Hexachloro-1,3-Butadiene	22.645	225	52047	0.448	ppbv	94
79) Naphthalene	21.397	128	23146	0.107	ppbv	96
81) 1,2,4-Trichlorobenzene	21.162	180	26768	0.233	ppbv #	54

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

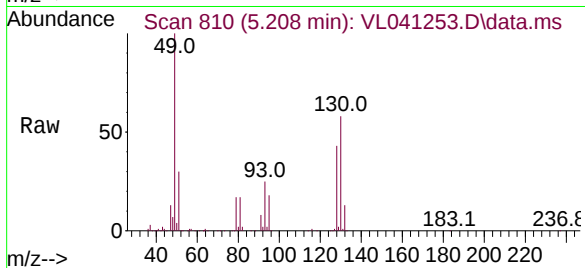
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QLast Update : Fri May 10 01:23:08 2024
Response via : Initial Calibration



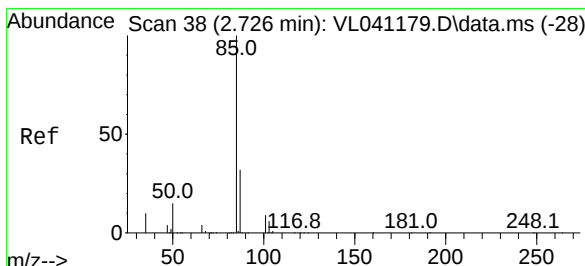
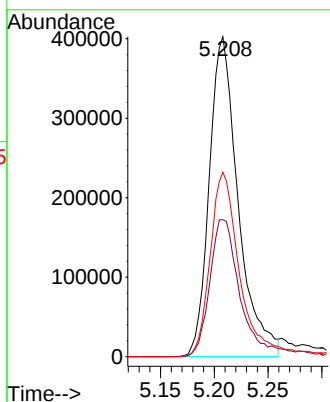
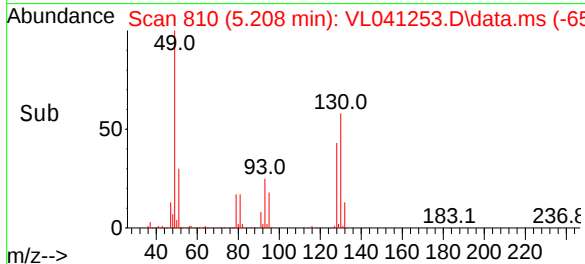


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.208 min Scan# 81
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Instrument :
 MSVOA_L
 ClientSampleId :

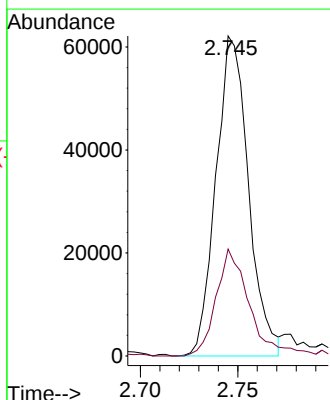
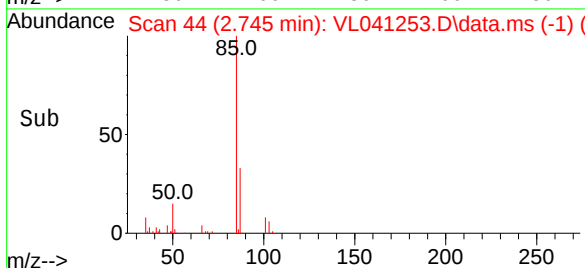
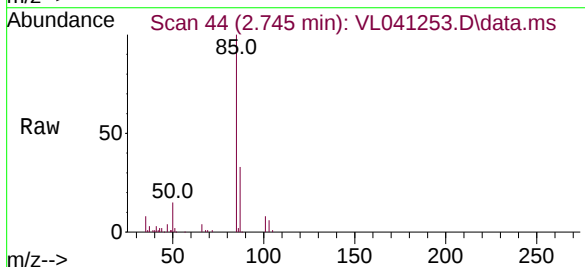


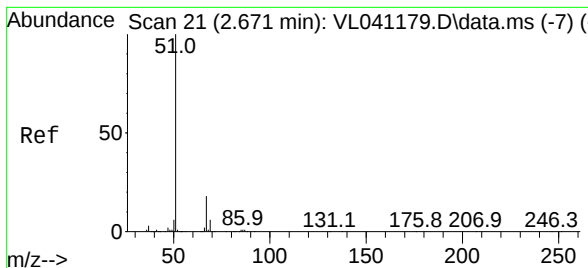
Tgt Ion: 49 Resp: 752281
 Ion Ratio Lower Upper
 49 100
 128 46.9 21.5 64.5
 130 61.5 27.2 81.6



#2
 Dichlorodifluoromethane
 Concen: 0.709 ppbv
 RT: 2.745 min Scan# 44
 Delta R.T. 0.000 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion: 85 Resp: 72124
 Ion Ratio Lower Upper
 85 100
 87 33.4 25.7 38.5





#3

Chlorodifluoromethane

Concen: 0.537 ppbv

RT: 2.694 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

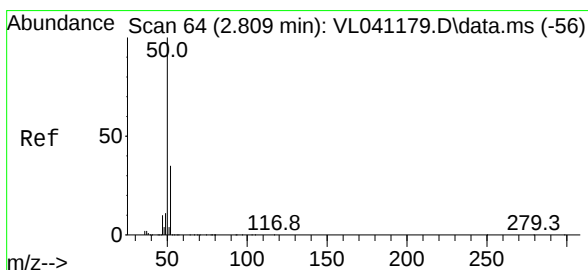
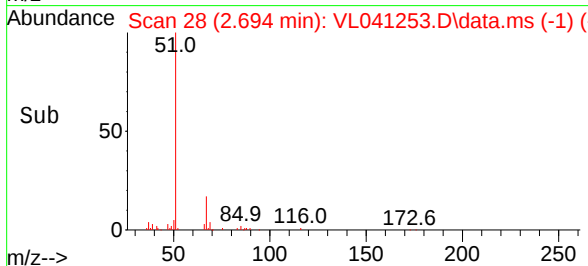
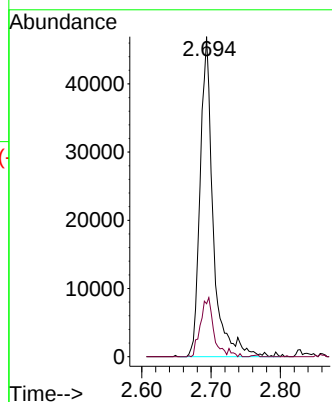
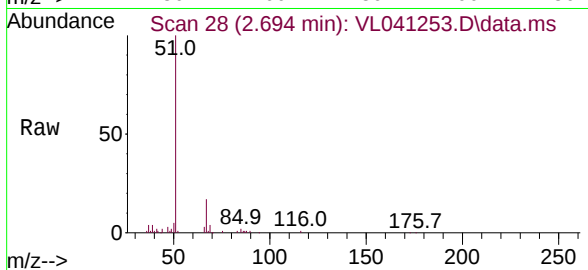
ClientSampleId :

Tgt Ion: 51 Resp: 61346

Ion Ratio Lower Upper

51 100

67 19.5 14.0 21.0



#4

Chloromethane

Concen: 0.518 ppbv

RT: 2.832 min Scan# 71

Delta R.T. 0.003 min

Lab File: VL041253.D

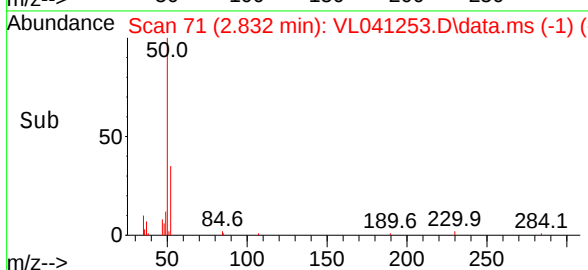
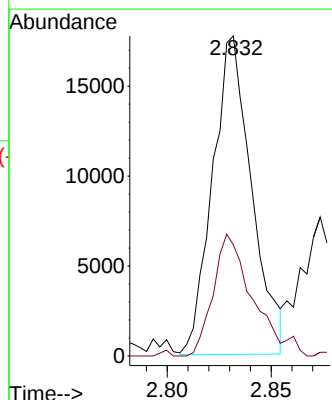
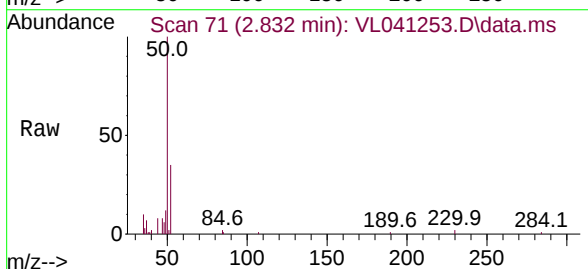
Acq: 9 May 2024 11:28

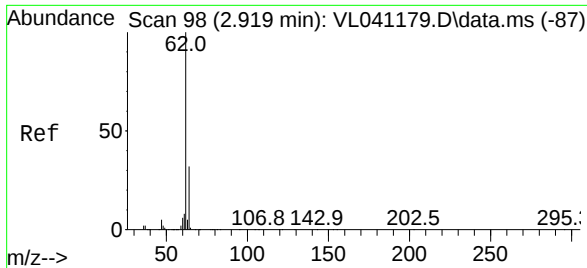
Tgt Ion: 50 Resp: 23221

Ion Ratio Lower Upper

50 100

52 35.1 28.3 42.5

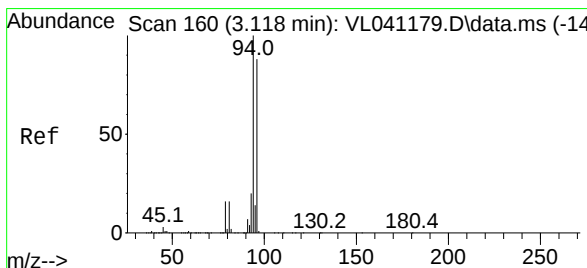
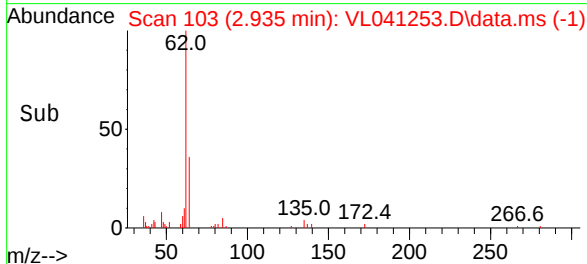
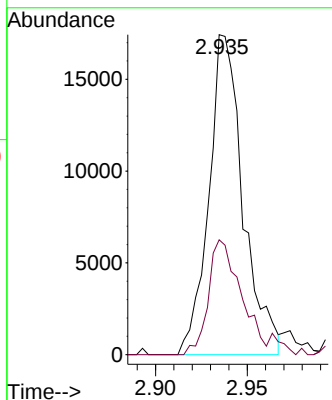
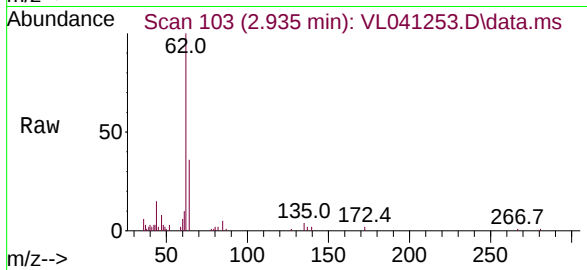




#5
 Vinyl Chloride
 Concen: 0.502 ppbv
 RT: 2.935 min Scan# 103
 Delta R.T. 0.000 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

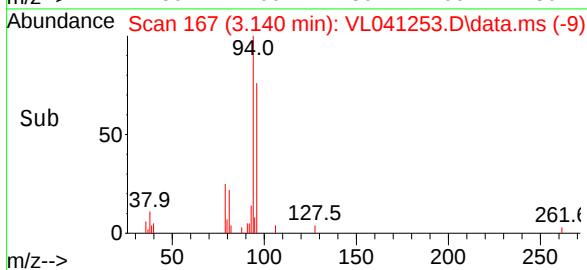
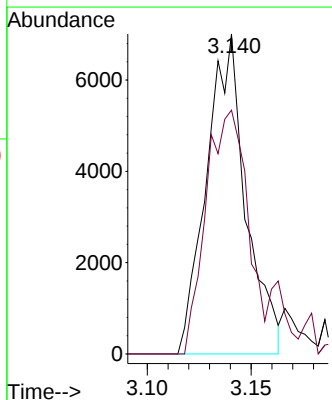
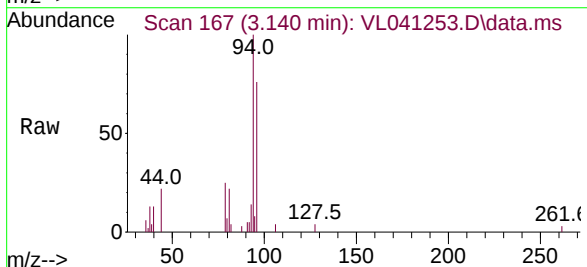
Instrument :
 MSVOA_L
 ClientSampleId :

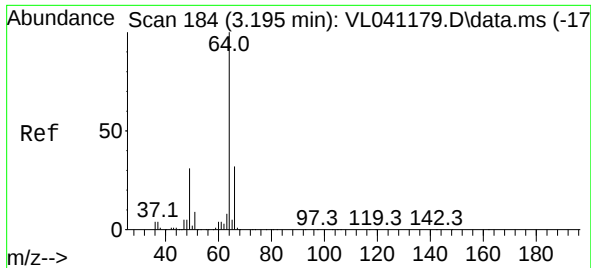
Tgt Ion: 62 Resp: 22610
 Ion Ratio Lower Upper
 62 100
 64 35.9 25.7 38.5



#6
 Bromomethane
 Concen: 0.559 ppbv
 RT: 3.140 min Scan# 167
 Delta R.T. 0.007 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion: 94 Resp: 9192
 Ion Ratio Lower Upper
 94 100
 96 76.2 70.1 105.1

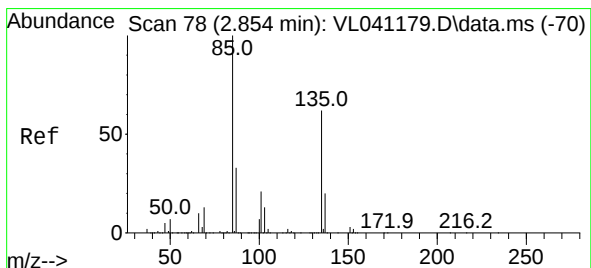
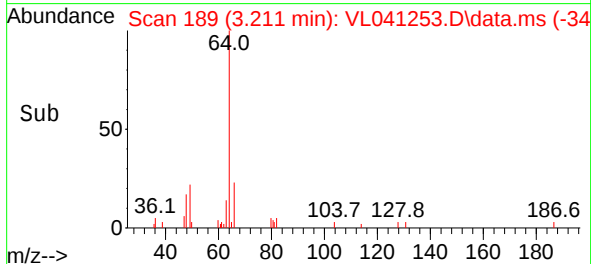
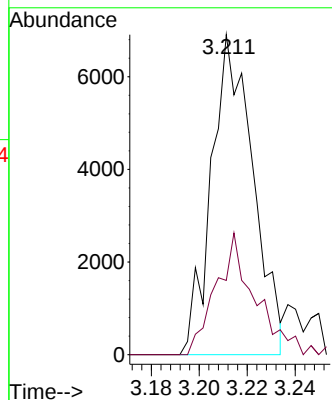
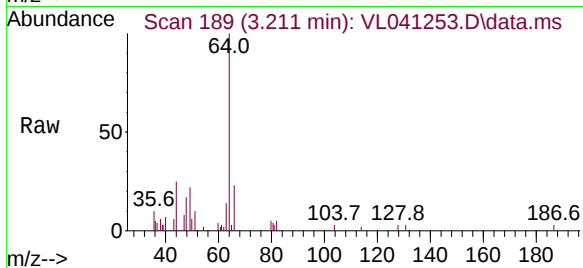




#7
Chloroethane
Concen: 0.523 ppbv
RT: 3.211 min Scan# 11
Delta R.T. -0.003 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

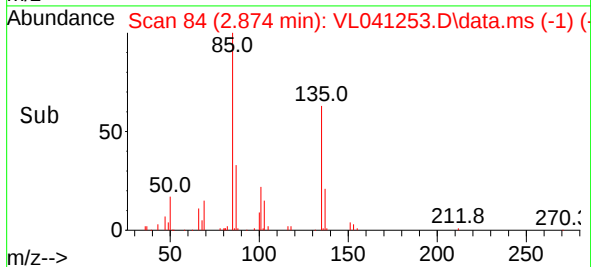
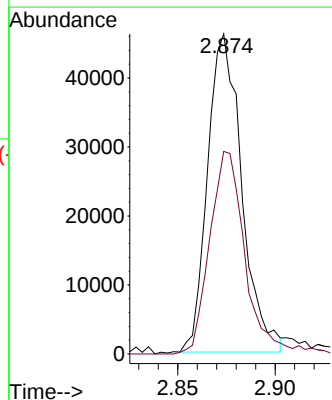
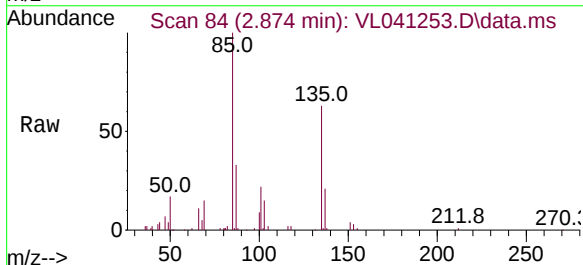
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MSVOA_L
ClientSampleId :

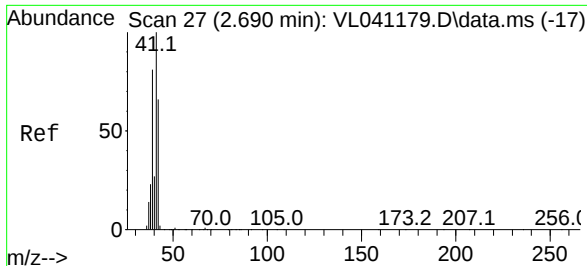
Tgt Ion: 64 Resp: 8322
Ion Ratio Lower Upper
64 100
66 23.2 25.4 38.2#



#8
Dichlorotetrafluoroethane
Concen: 0.533 ppbv
RT: 2.874 min Scan# 84
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 85 Resp: 56178
Ion Ratio Lower Upper
85 100
135 68.3 51.5 77.3





#9

Propene

Concen: 0.478 ppbv

RT: 2.713 min Scan# 34

Delta R.T. 0.003 min

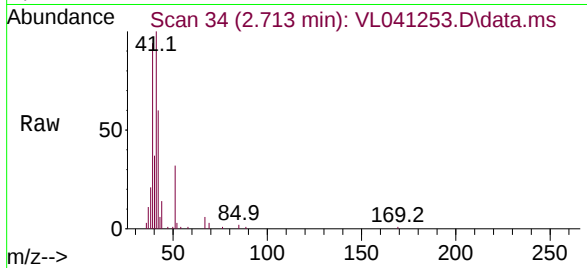
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Instrument :

MSVOA_L

ClientSampleId :

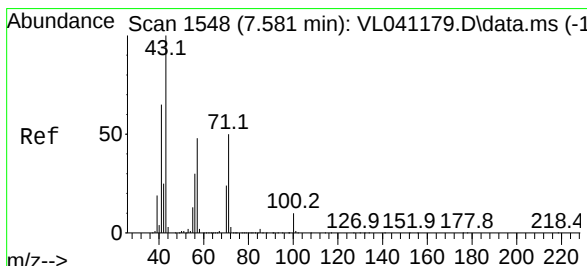
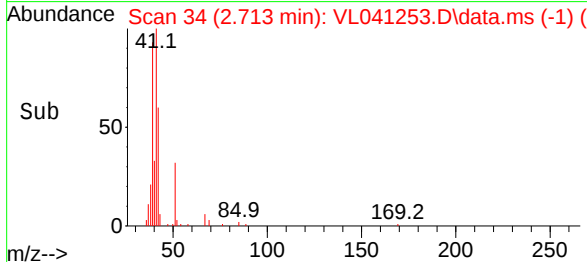
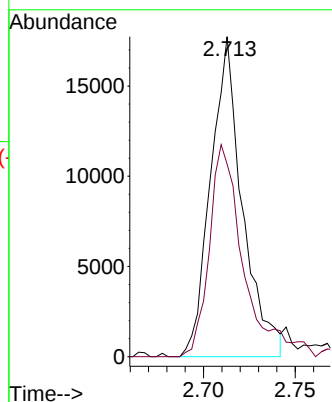


Tgt Ion: 41 Resp: 21366

Ion Ratio Lower Upper

41 100

42 73.7 55.3 82.9



#10

Heptane

Concen: 0.229 ppbv

RT: 7.597 min Scan# 1553

Delta R.T. 0.000 min

Lab File: VL041253.D

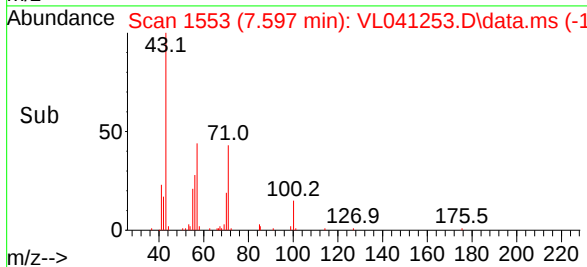
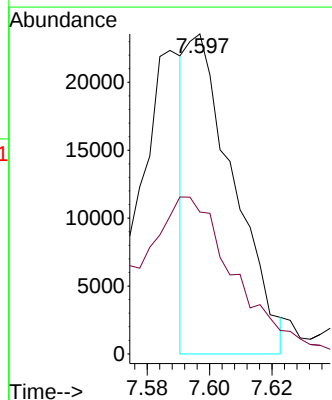
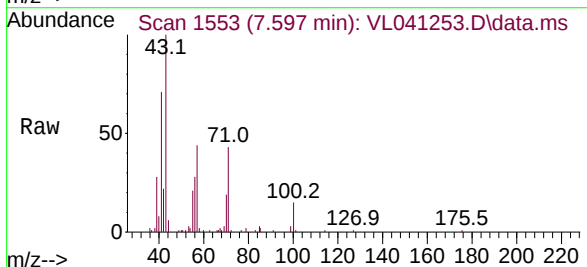
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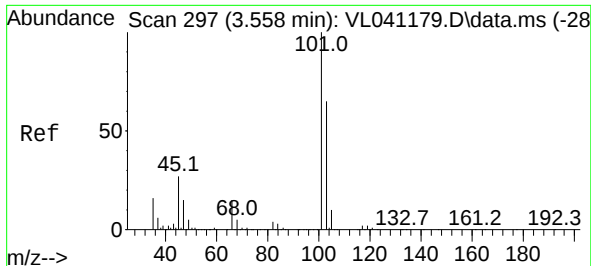
Tgt Ion: 43 Resp: 24772

Ion Ratio Lower Upper

43 100

57 0.0 38.7 58.1#





#11

Trichlorofluoromethane

Concen: 0.551 ppbv

RT: 3.581 min Scan# 304

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

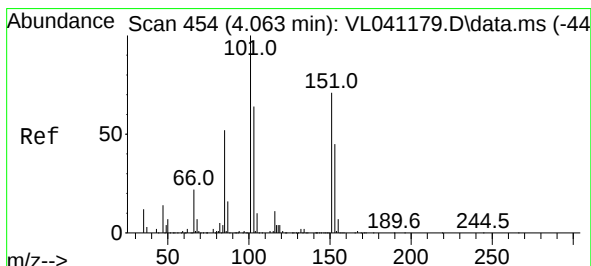
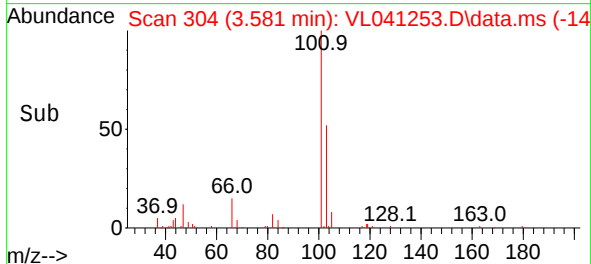
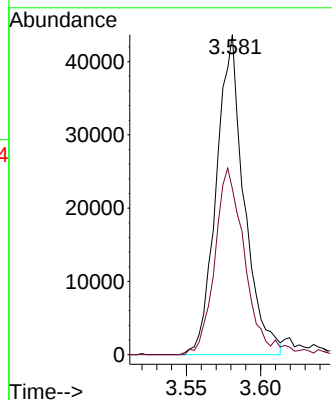
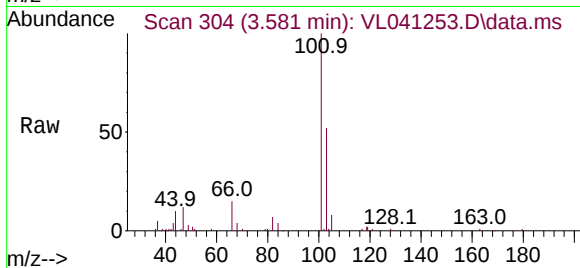
ClientSampleId :

Tgt Ion:101 Resp: 56996

Ion Ratio Lower Upper

101 100

103 51.8 51.6 77.4



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.359 ppbv

RT: 4.079 min Scan# 459

Delta R.T. 0.000 min

Lab File: VL041253.D

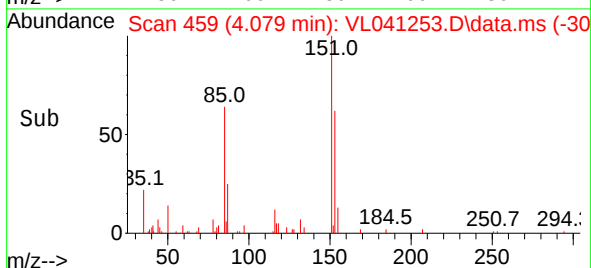
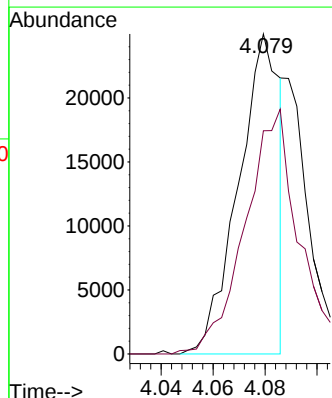
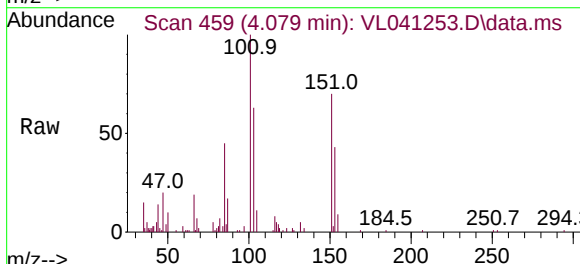
Acq: 9 May 2024 11:28

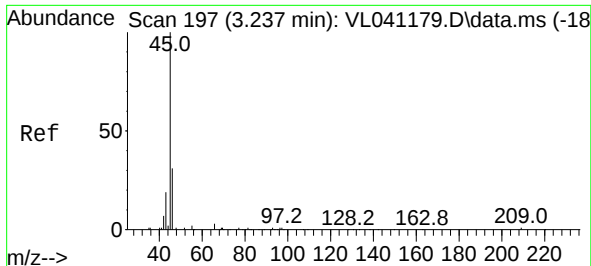
Tgt Ion:101 Resp: 27479

Ion Ratio Lower Upper

101 100

151 106.0 56.8 85.2#





#13

Ethanol

Concen: 0.307 ppbv

RT: 3.279 min Scan# 210

Delta R.T. 0.023 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

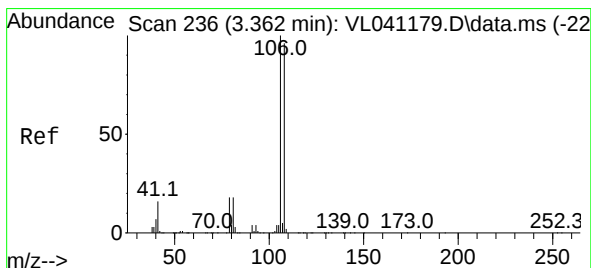
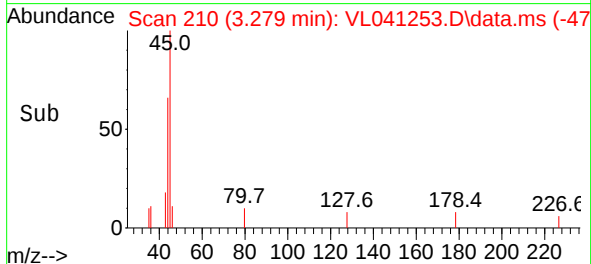
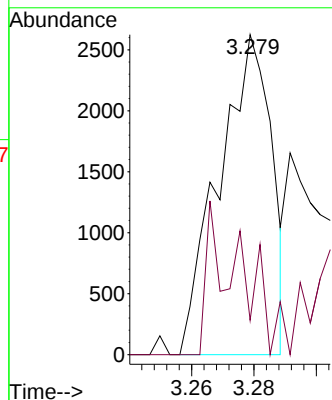
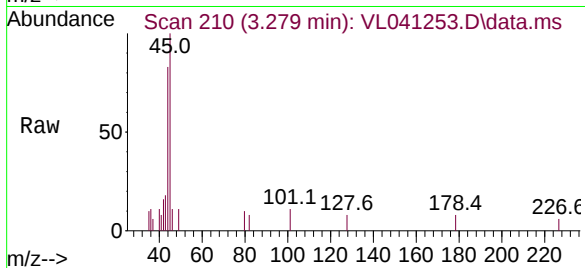
ClientSampleId :

Tgt Ion: 45 Resp: 3082

Ion Ratio Lower Upper

45 100

46 60.4 14.8 59.0#



#14

Bromoethene

Concen: 0.480 ppbv

RT: 3.382 min Scan# 242

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

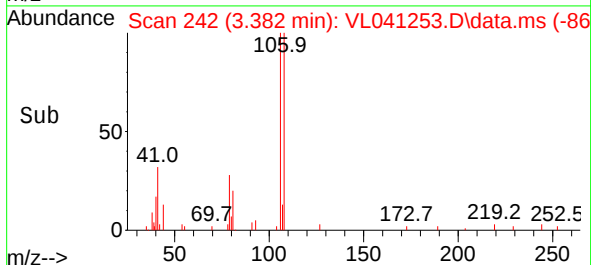
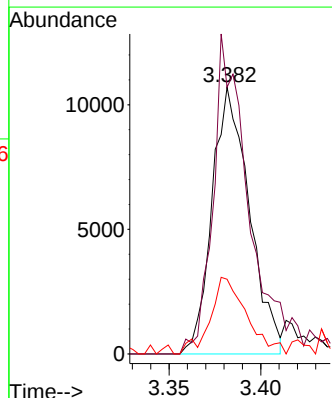
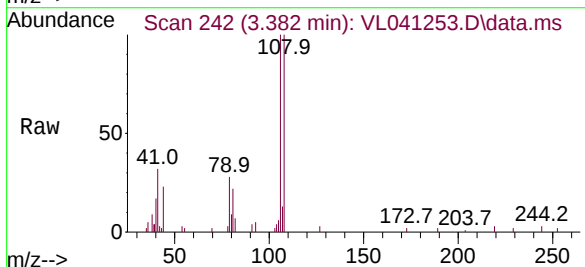
Tgt Ion:108 Resp: 15148

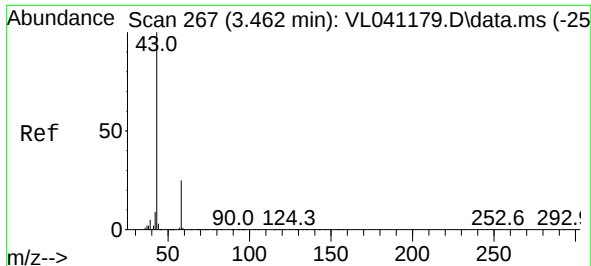
Ion Ratio Lower Upper

108 100

106 119.3 88.2 132.4

79 29.0 17.4 26.0#





#15

Acetone

Concen: 0.620 ppbv

RT: 3.504 min Scan# 21

Delta R.T. 0.023 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

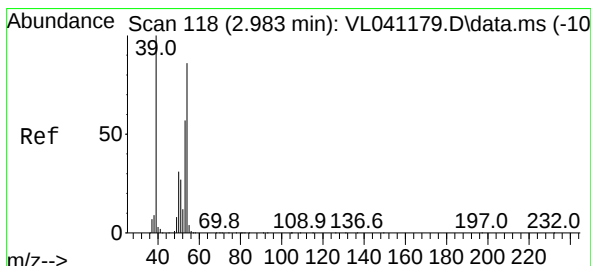
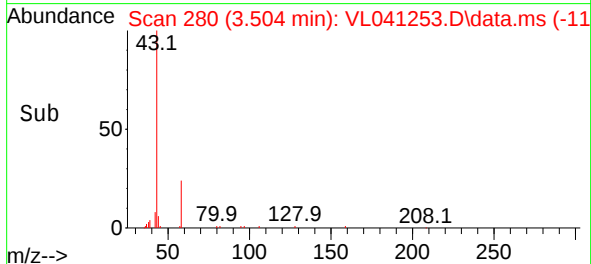
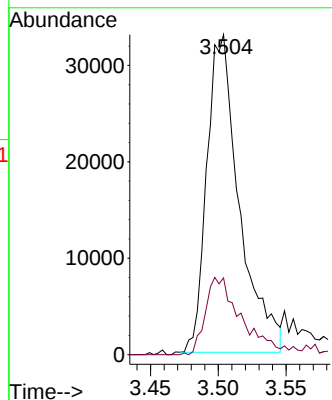
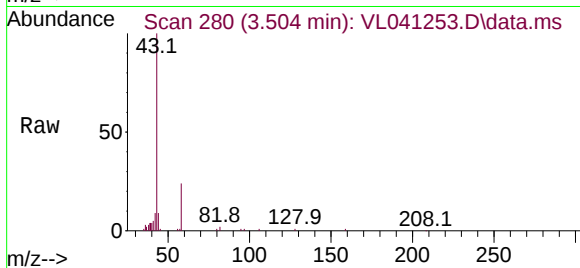
ClientSampleId :

Tgt Ion: 43 Resp: 55018

Ion Ratio Lower Upper

43 100

58 27.5 21.4 32.0



#16

1,3-Butadiene

Concen: 0.498 ppbv

RT: 3.002 min Scan# 124

Delta R.T. 0.003 min

Lab File: VL041253.D

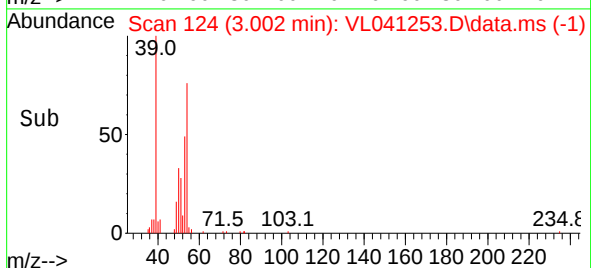
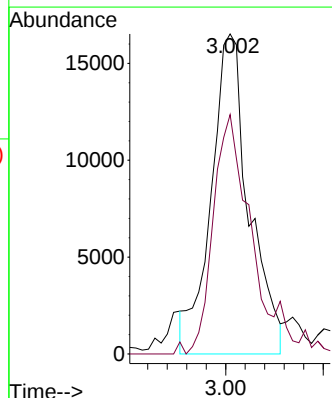
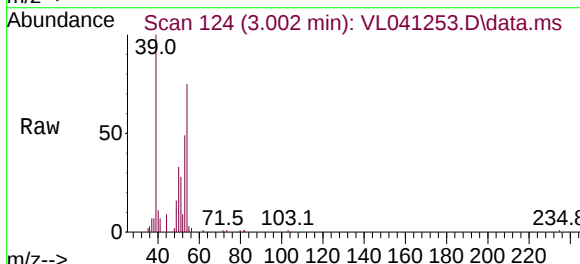
Acq: 9 May 2024 11:28

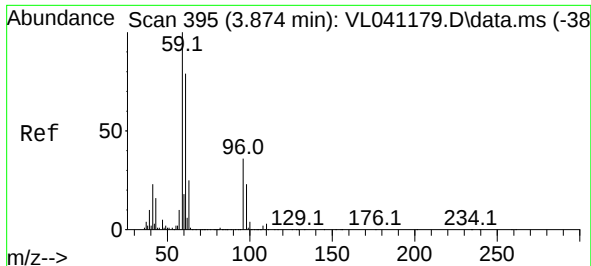
Tgt Ion: 39 Resp: 22338

Ion Ratio Lower Upper

39 100

54 80.3 62.2 93.4





#17

tert-Butyl alcohol

Concen: 0.379 ppbv

RT: 3.909 min Scan# 406

Delta R.T. 0.019 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

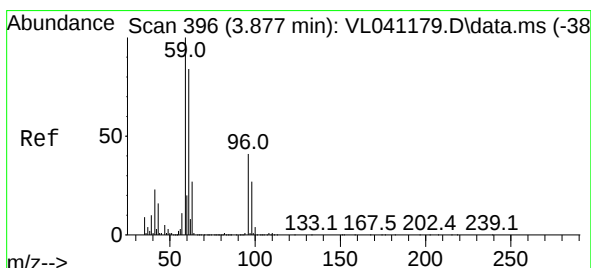
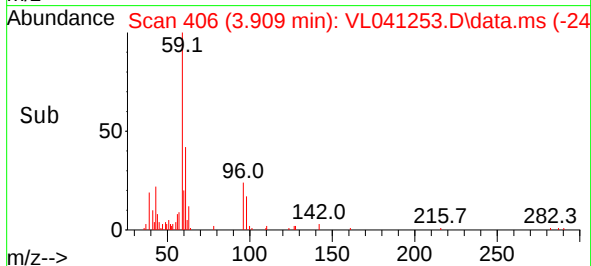
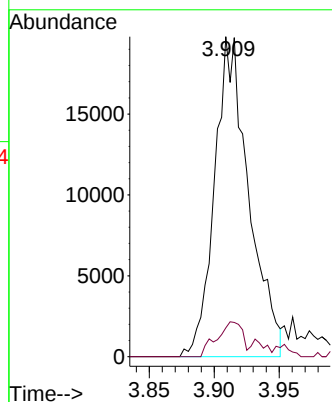
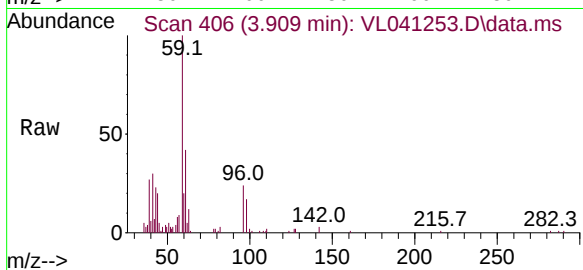
ClientSampleId :

Tgt Ion: 59 Resp: 36253

Ion Ratio Lower Upper

59 100

57 11.8 8.4 12.6



#18

1,1-Dichloroethene

Concen: 0.235 ppbv

RT: 3.899 min Scan# 403

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

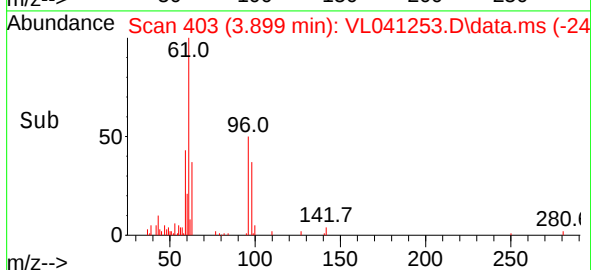
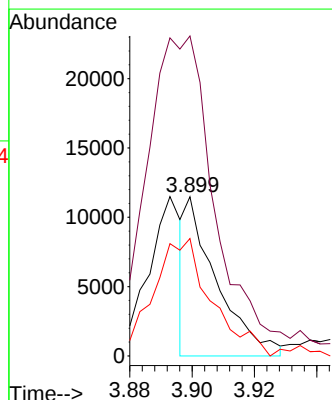
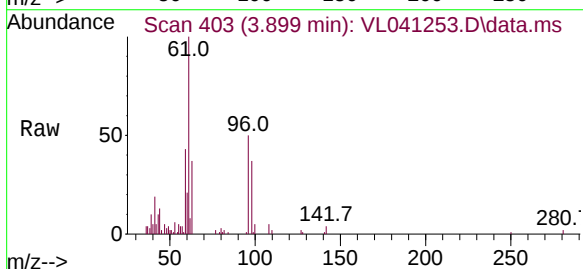
Tgt Ion: 96 Resp: 8001

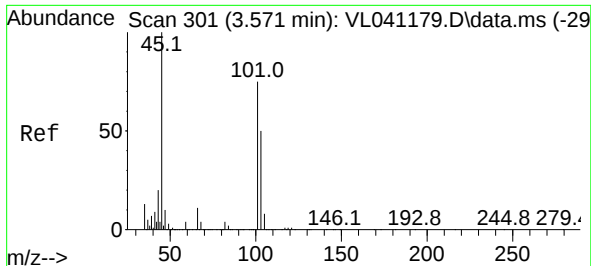
Ion Ratio Lower Upper

96 100

61 212.7 164.4 246.6

98 74.1 51.8 77.8





#19

Isopropyl Alcohol

Concen: 0.381 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.019 min

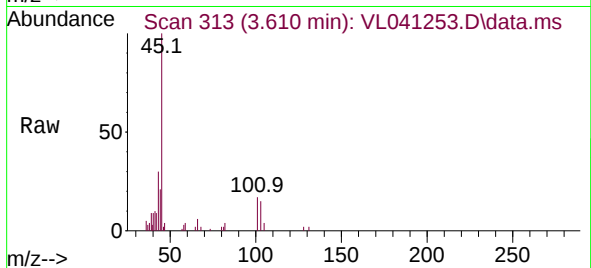
Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

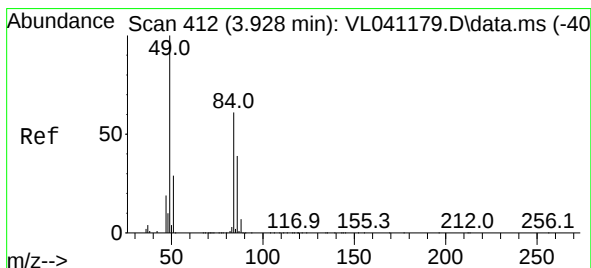
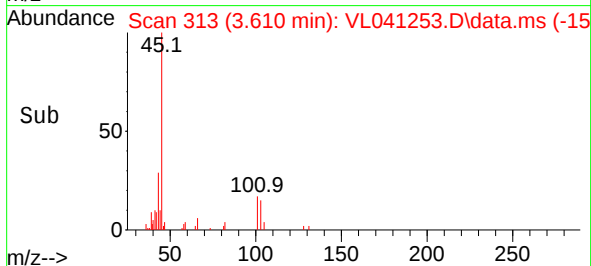
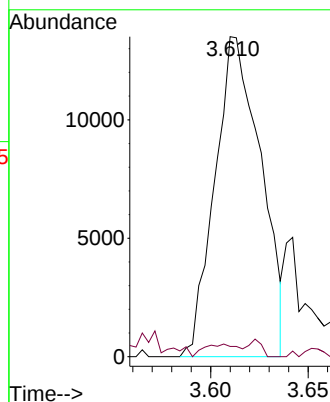


Tgt Ion: 45 Resp: 22172

Ion Ratio Lower Upper

45 100

58 6.1 26.8 40.2#



#20

Methylene Chloride

Concen: 0.513 ppbv

RT: 3.951 min Scan# 419

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 84 Resp: 15842

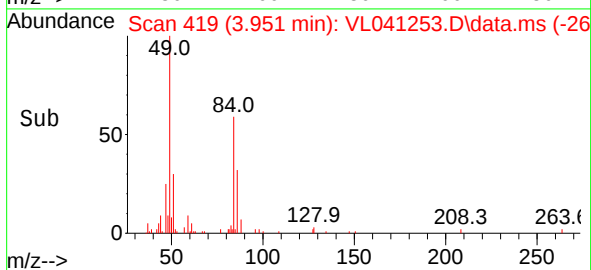
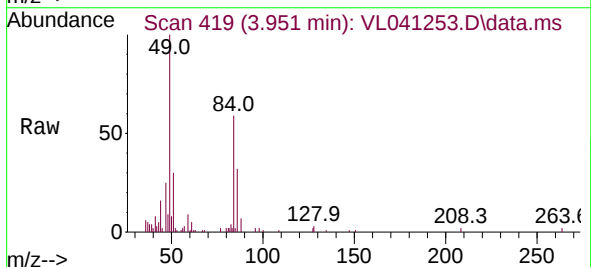
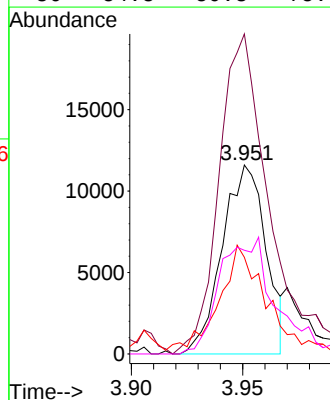
Ion Ratio Lower Upper

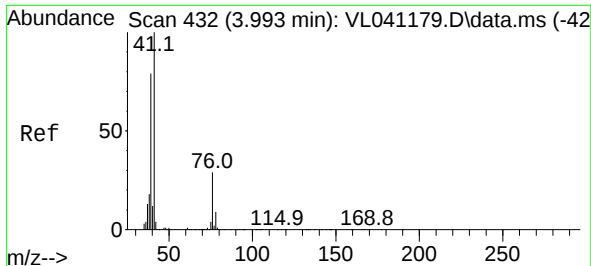
84 100

49 166.2 130.4 195.6

51 45.2 38.0 57.0

86 54.8 50.3 75.5

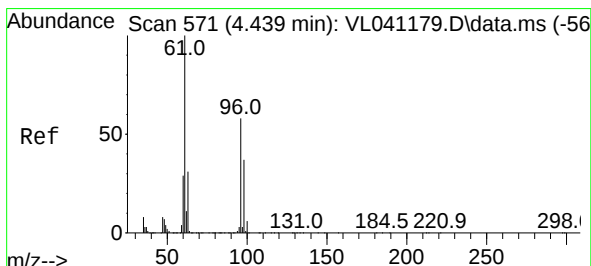
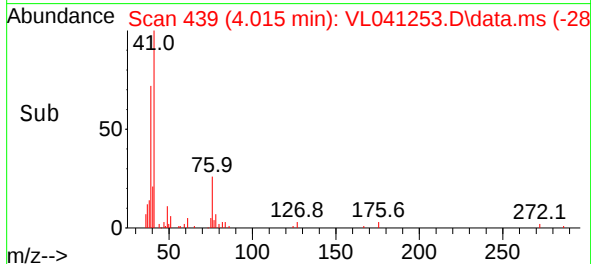
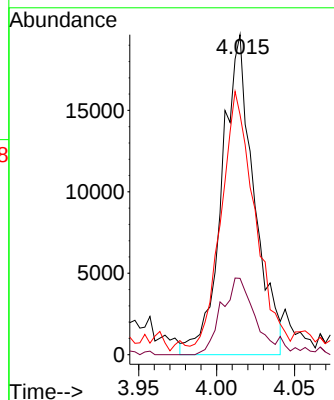
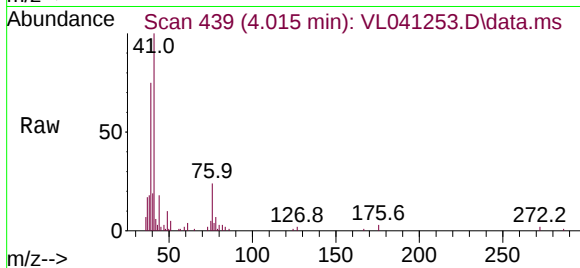




#21
 Allyl Chloride
 Concen: 0.487 ppbv
 RT: 4.015 min Scan# 41
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

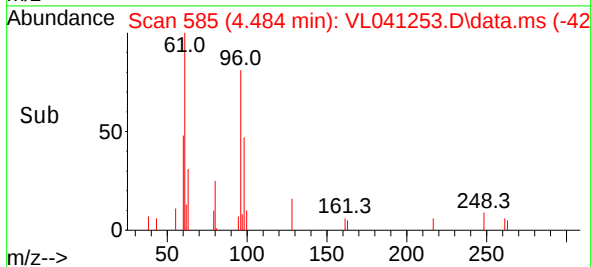
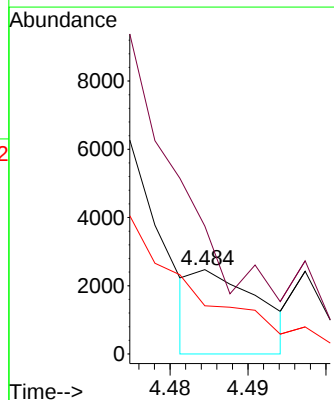
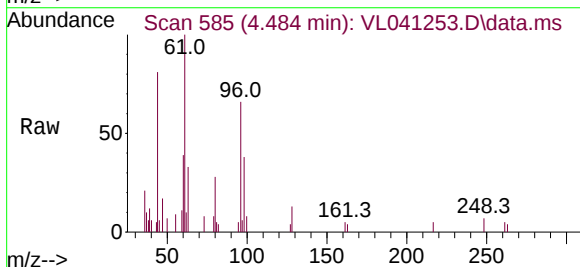
Instrument :
 MSVOA_L
 ClientSampleId :

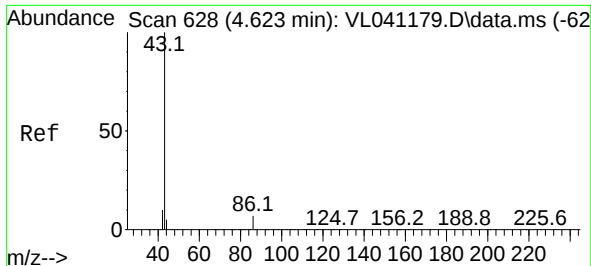
Tgt Ion: 41 Resp: 28206
 Ion Ratio Lower Upper
 41 100
 76 27.0 23.7 35.5
 39 91.5 64.7 97.1



#22
 trans-1,2-Dichloroethene
 Concen: 0.041 ppbv
 RT: 4.484 min Scan# 585
 Delta R.T. 0.023 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion: 96 Resp: 1444
 Ion Ratio Lower Upper
 96 100
 61 180.7 137.6 206.4
 98 67.9 50.6 76.0





#23

Vinyl Acetate

Concen: 0.338 ppbv

RT: 4.648 min Scan# 613

Delta R.T. 0.010 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 33034

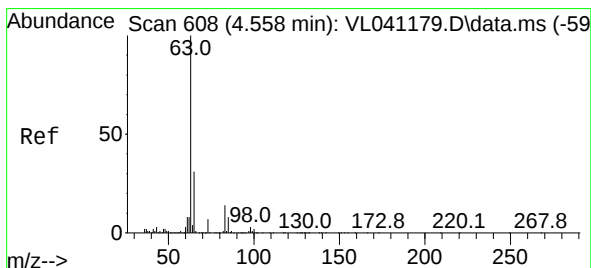
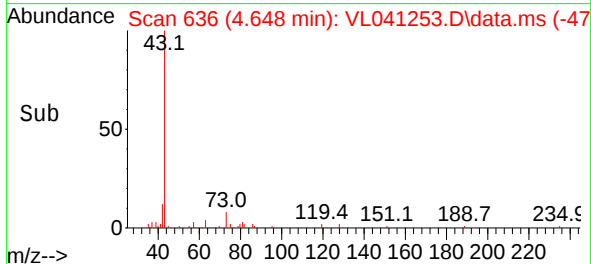
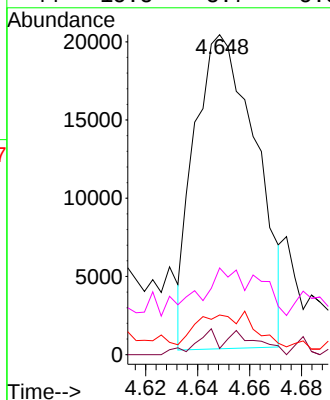
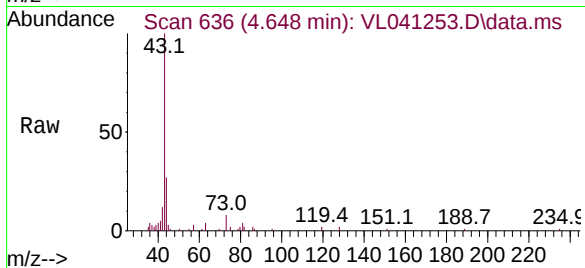
Ion Ratio Lower Upper

43 100

86 1.0 4.9 7.3#

42 12.0 8.0 12.0

44 15.3 3.7 5.5#



#24

1,1-Dichloroethane

Concen: 0.502 ppbv

RT: 4.574 min Scan# 613

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

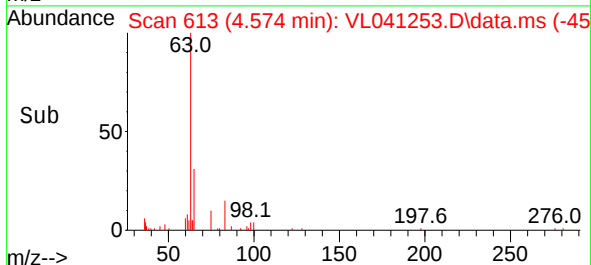
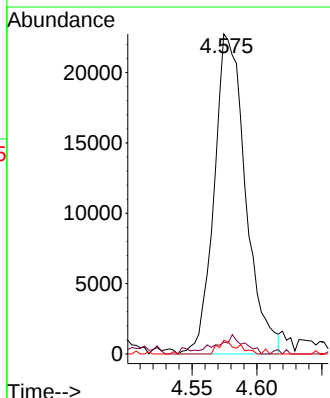
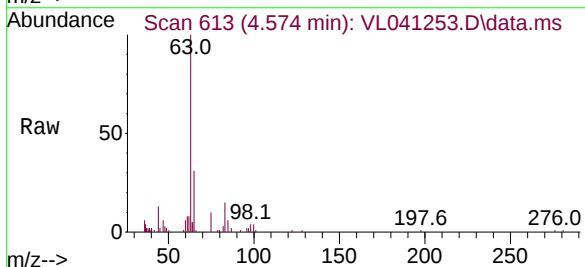
Tgt Ion: 63 Resp: 38181

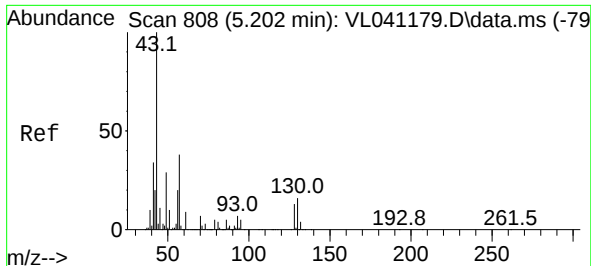
Ion Ratio Lower Upper

63 100

98 3.5 1.6 4.8

100 4.1 1.1 3.5#





#25

Ethyl Acetate

Concen: 0.466 ppbv

RT: 5.230 min Scan# 817

Delta R.T. 0.010 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 82564

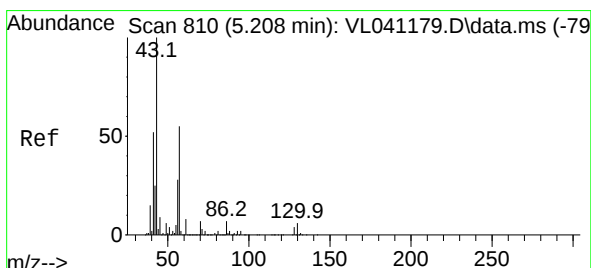
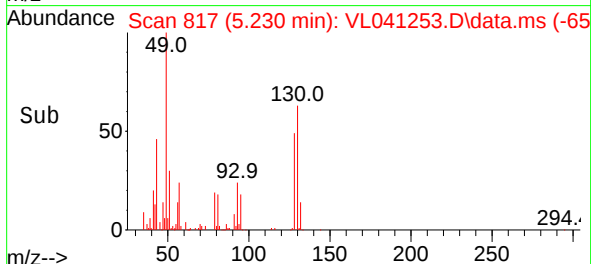
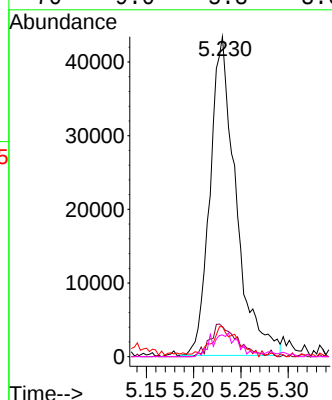
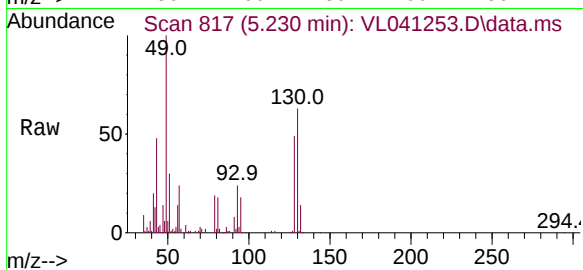
Ion Ratio Lower Upper

43 100

45 11.2 8.2 12.2

61 10.1 7.7 11.5

70 9.0 5.8 8.6#



#26

Hexane

Concen: 0.461 ppbv

RT: 5.230 min Scan# 817

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 57 Resp: 36471

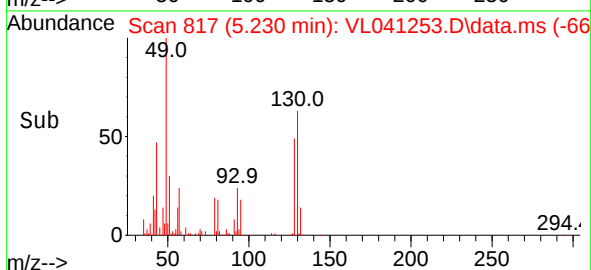
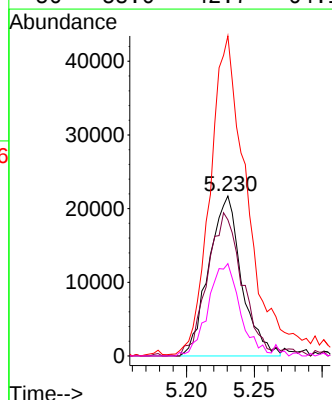
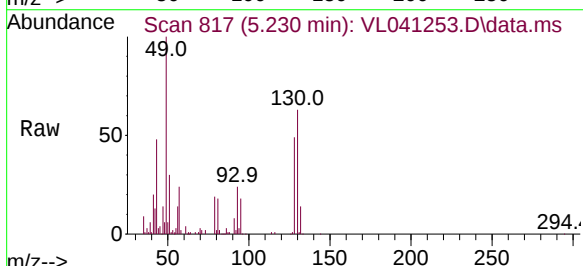
Ion Ratio Lower Upper

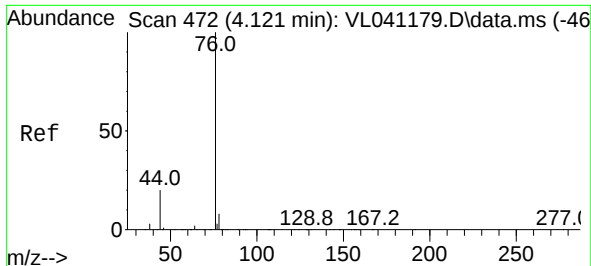
57 100

41 99.5 75.8 113.8

43 230.3 187.0 280.4

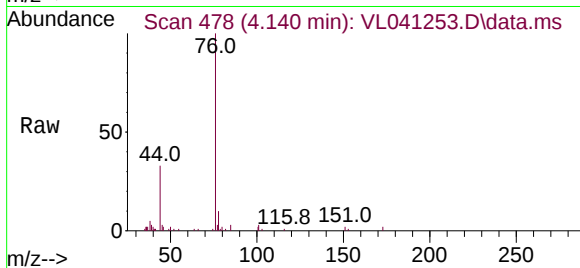
56 58.0 42.7 64.1



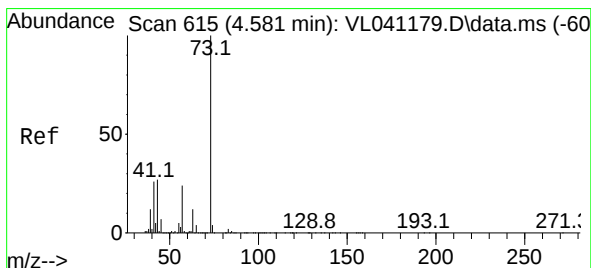
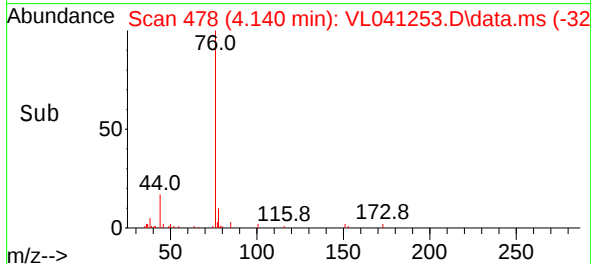
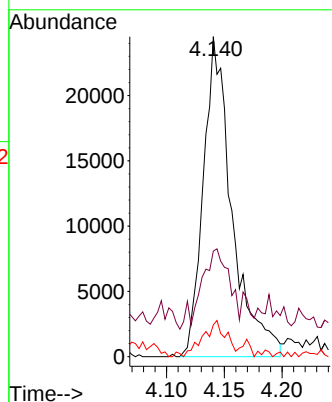


#27
Carbon Disulfide
Concen: 0.452 ppbv
RT: 4.140 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Instrument :
MSVOA_L
ClientSampleId :

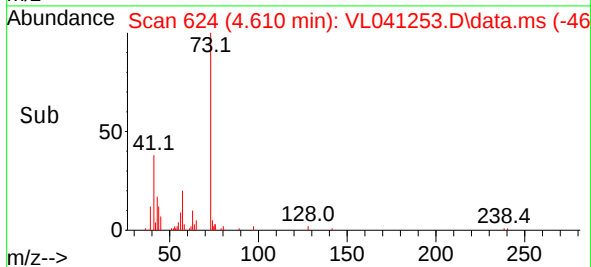
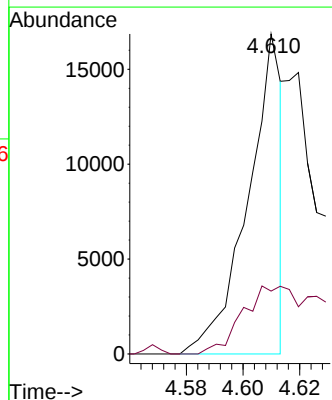
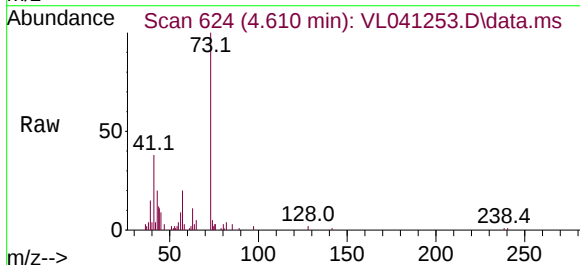


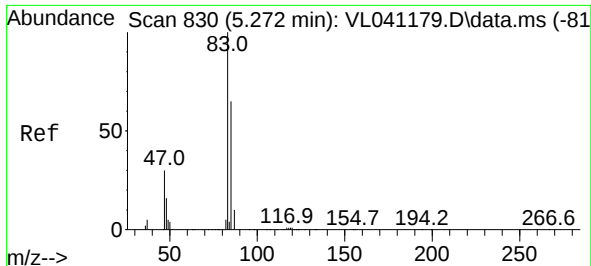
Tgt Ion: 76 Resp: 42317
Ion Ratio Lower Upper
76 100
44 25.9 16.3 24.5#
78 11.3 7.3 10.9#



#28
Methyl tert-Butyl Ether
Concen: 0.222 ppbv
RT: 4.610 min Scan# 624
Delta R.T. 0.010 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion: 73 Resp: 13958
Ion Ratio Lower Upper
73 100
57 57.4 18.8 28.2#





#29

Chloroform

Concen: 0.234 ppbv

RT: 5.282 min Scan# 81

Delta R.T. -0.006 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

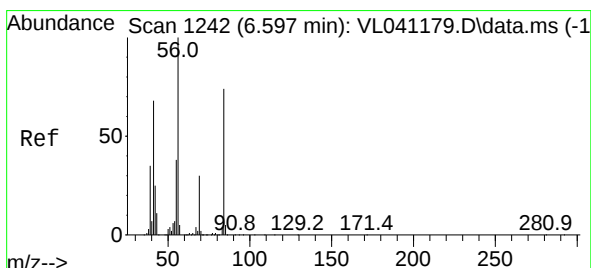
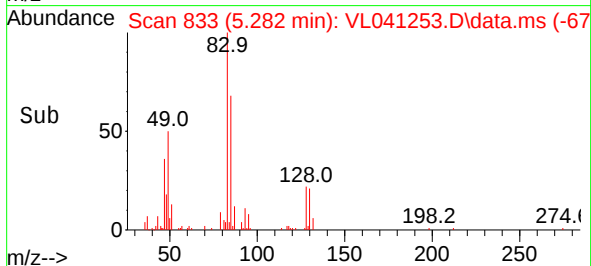
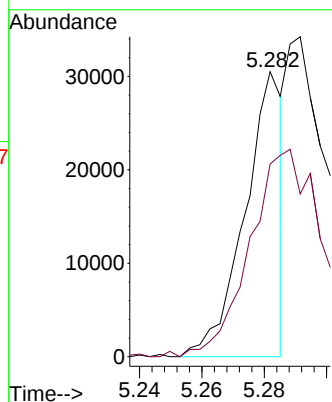
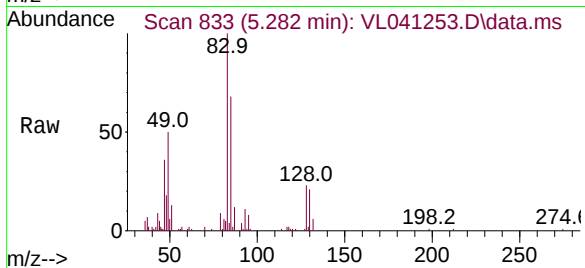
ClientSampleId :

Tgt Ion: 83 Resp: 25483

Ion Ratio Lower Upper

83 100

85 66.9 51.7 77.5



#30

Cyclohexane

Concen: 0.328 ppbv

RT: 6.619 min Scan# 1249

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

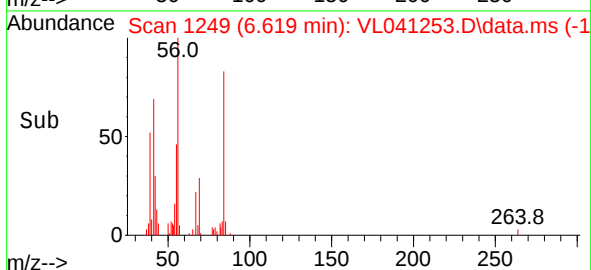
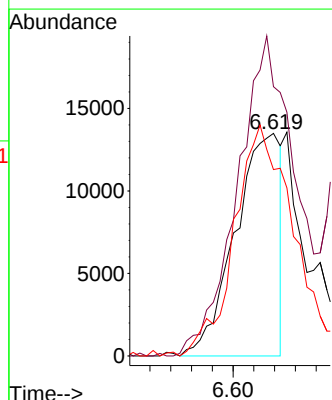
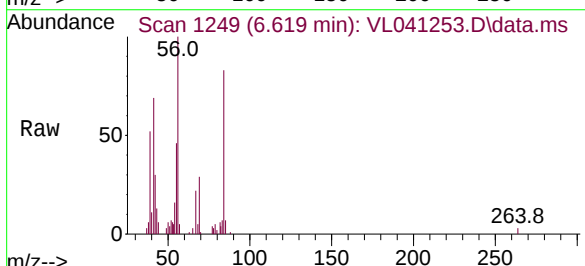
Tgt Ion: 84 Resp: 20520

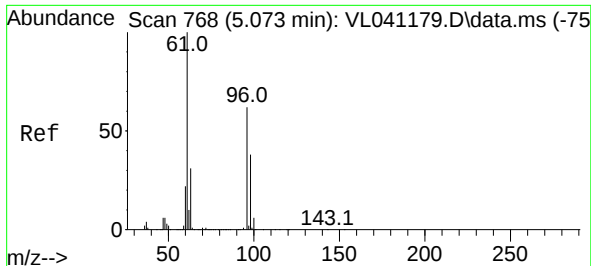
Ion Ratio Lower Upper

84 100

56 184.9 116.8 175.2#

41 142.6 73.8 110.8#

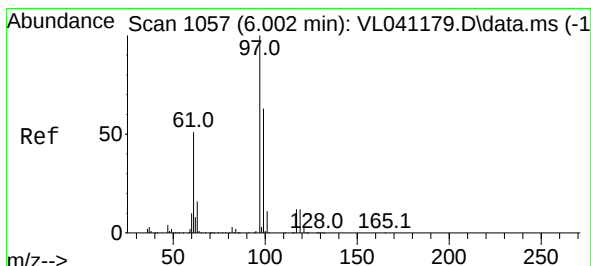
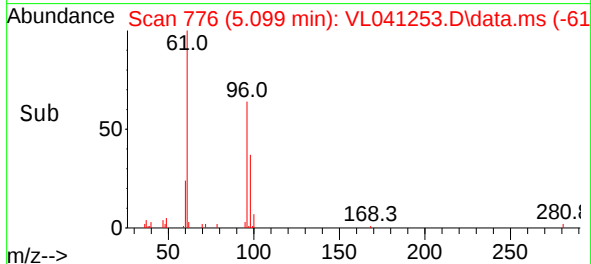
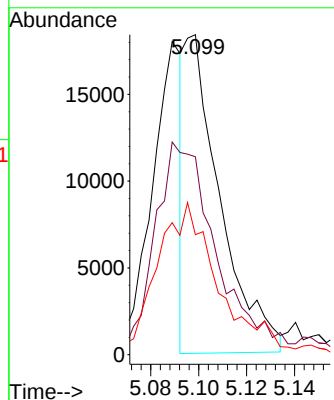
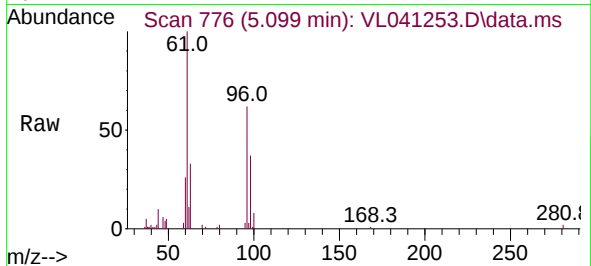




#31
 cis-1,2-Dichloroethene
 Concen: 0.253 ppbv
 RT: 5.099 min Scan# 71
 Delta R.T. 0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

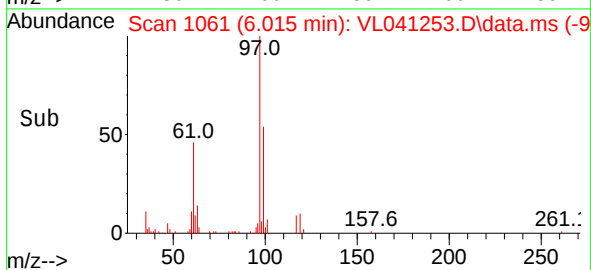
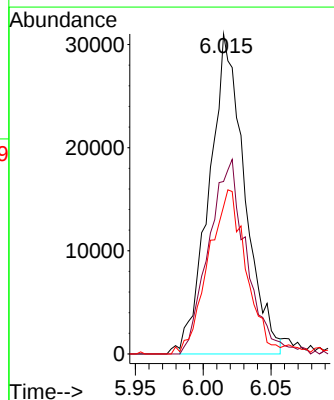
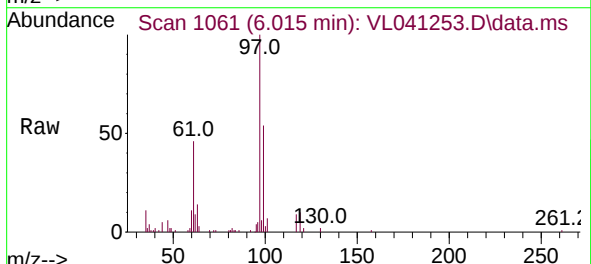
Instrument :
 MSVOA_L
 ClientSampleId :

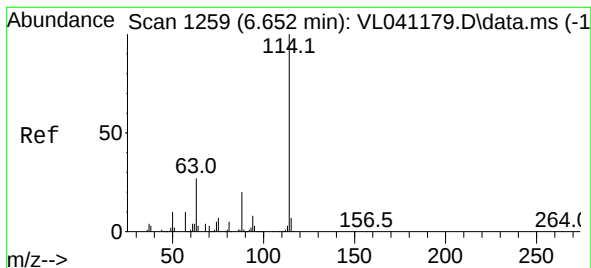
Tgt Ion: 61 Resp: 18734
 Ion Ratio Lower Upper
 61 100
 96 58.4 49.8 74.6
 98 37.2 30.0 45.0



#32
 1,1,1-Trichloroethane
 Concen: 0.517 ppbv
 RT: 6.015 min Scan# 1061
 Delta R.T. -0.003 min
 Lab File: VL041253.D
 Acq: 9 May 2024 11:28

Tgt Ion: 97 Resp: 56268
 Ion Ratio Lower Upper
 97 100
 99 65.4 51.7 77.5
 61 57.1 41.1 61.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.668 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

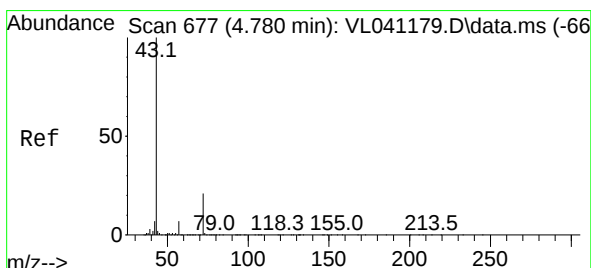
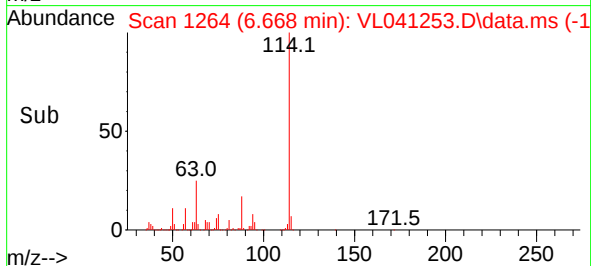
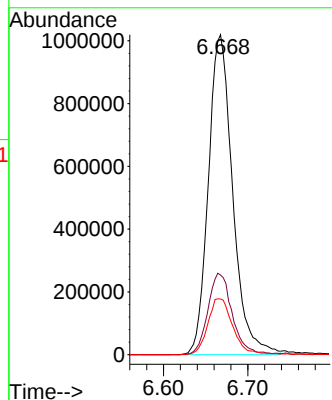
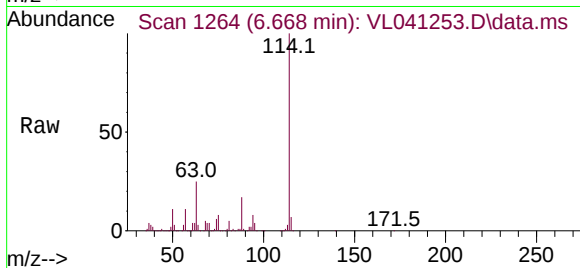
Tgt Ion:114 Resp: 2045422

Ion Ratio Lower Upper

114 100

63 26.1 21.8 32.6

88 18.2 15.2 22.8



#34

2-Butanone

Concen: 0.427 ppbv

RT: 4.816 min Scan# 688

Delta R.T. 0.016 min

Lab File: VL041253.D

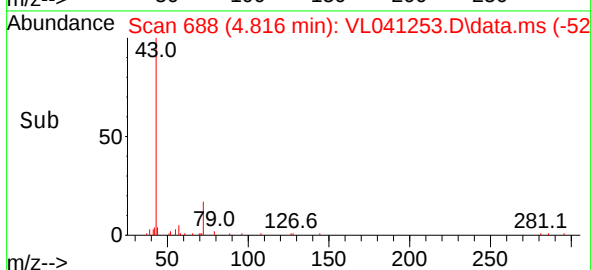
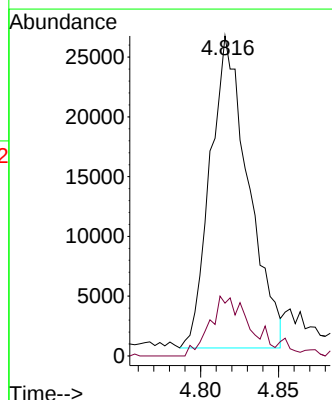
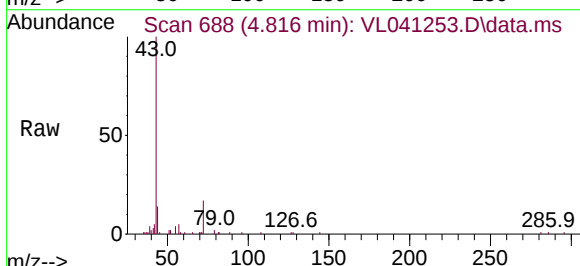
Acq: 9 May 2024 11:28

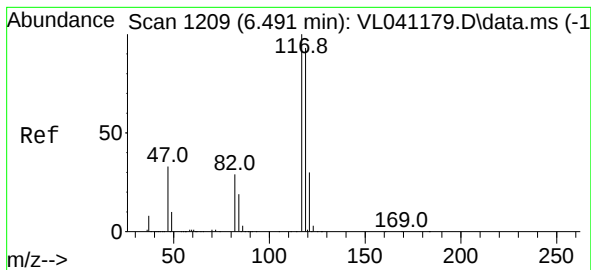
Tgt Ion: 43 Resp: 44495

Ion Ratio Lower Upper

43 100

72 22.3 17.3 25.9





#35

Carbon Tetrachloride

Concen: 0.486 ppbv

RT: 6.507 min Scan# 117

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

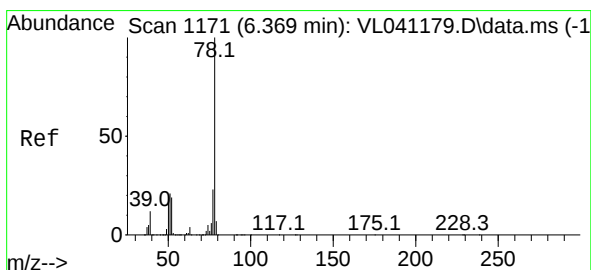
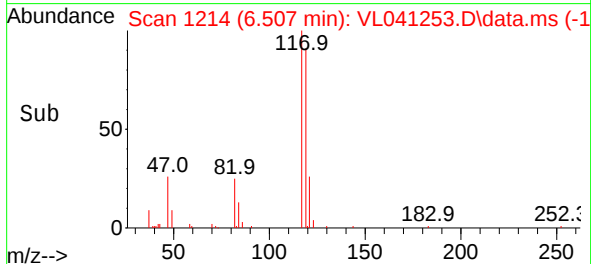
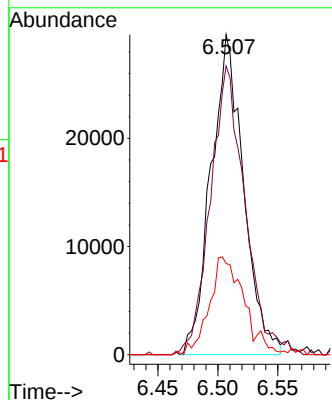
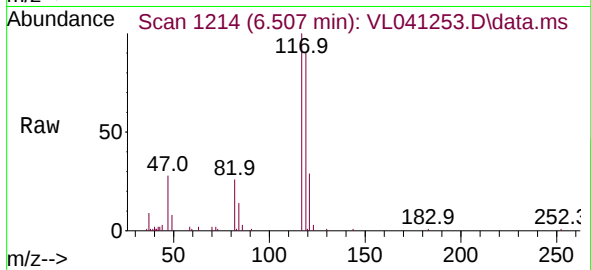
Tgt Ion:117 Resp: 55837

Ion Ratio Lower Upper

117 100

119 89.0 74.3 111.5

121 28.0 23.8 35.8



#36

Benzene

Concen: 0.424 ppbv

RT: 6.385 min Scan# 1176

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

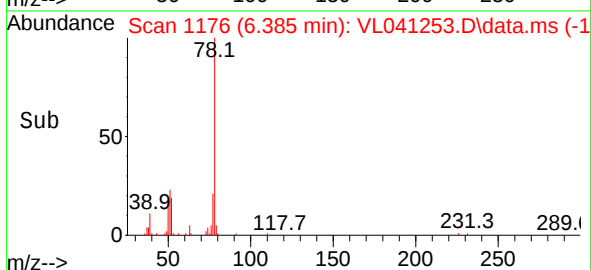
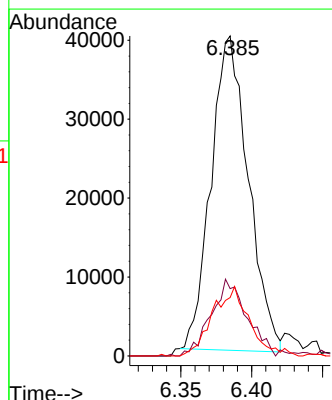
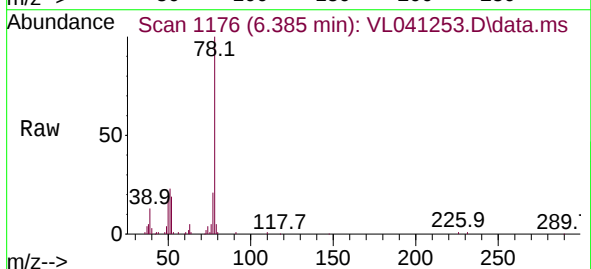
Tgt Ion: 78 Resp: 72810

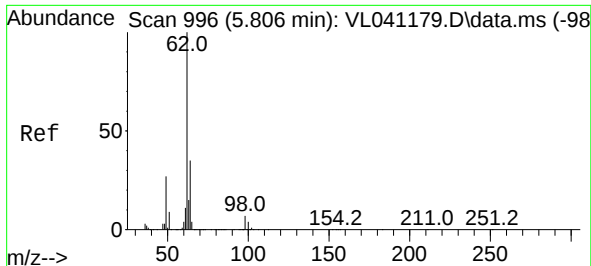
Ion Ratio Lower Upper

78 100

77 21.8 18.3 27.5

50 18.9 15.9 23.9





#37

1,2-Dichloroethane

Concen: 0.473 ppbv

RT: 5.822 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

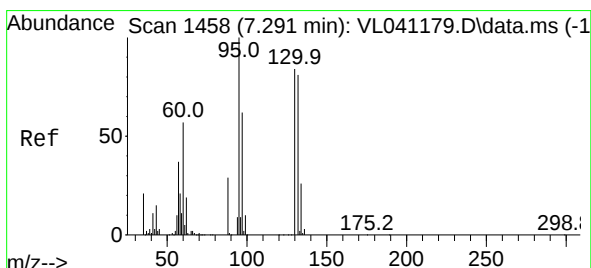
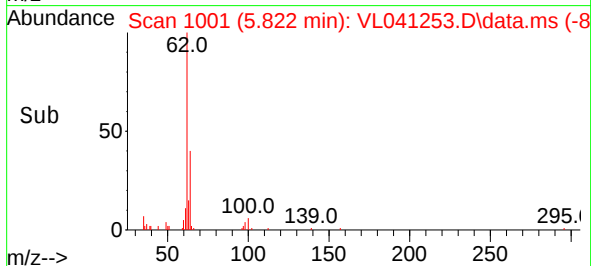
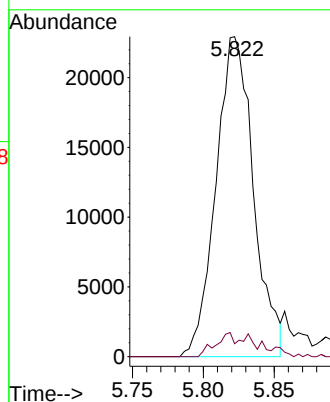
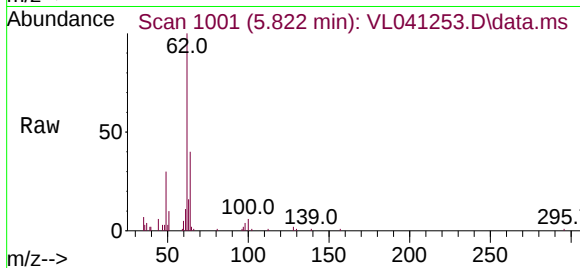
ClientSampleId :

Tgt Ion: 62 Resp: 42318

Ion Ratio Lower Upper

62 100

98 8.1 5.0 7.4#



#38

Trichloroethene

Concen: 0.482 ppbv

RT: 7.304 min Scan# 1462

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:130 Resp: 30807

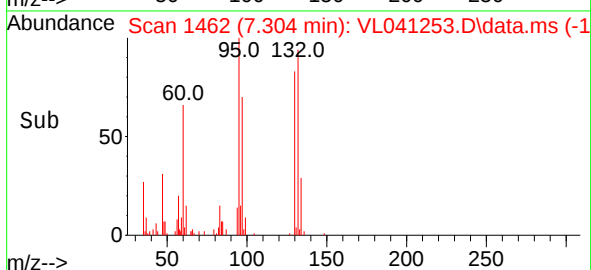
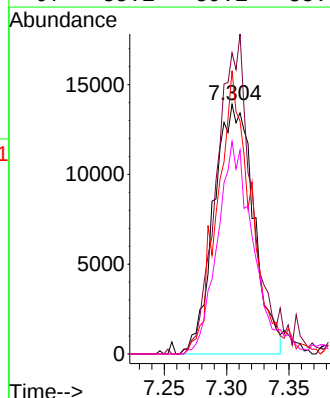
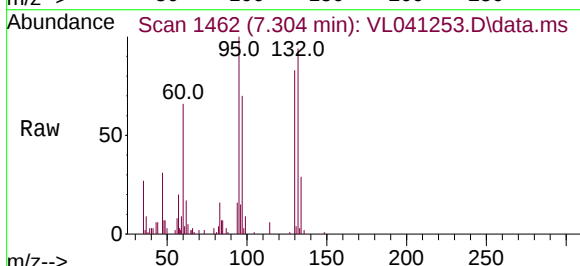
Ion Ratio Lower Upper

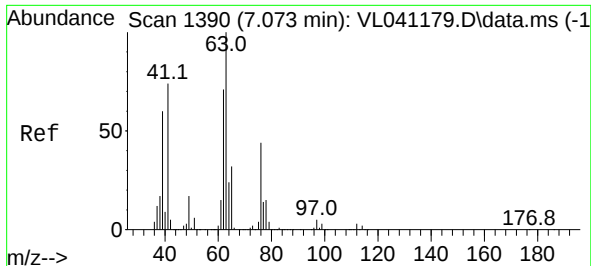
130 100

95 120.7 95.0 142.6

132 113.5 77.0 115.4

97 85.1 59.1 88.7





#39

1,2-Dichloropropane

Concen: 0.465 ppbv

RT: 7.082 min Scan# 1390

Delta R.T. -0.006 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

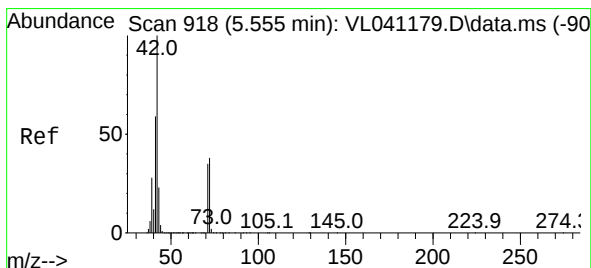
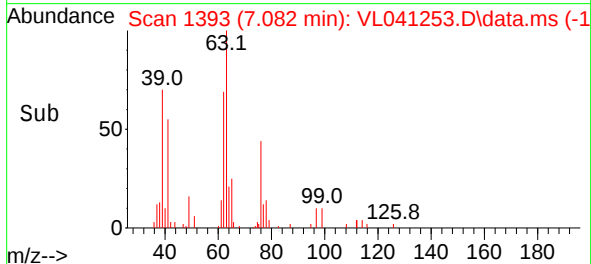
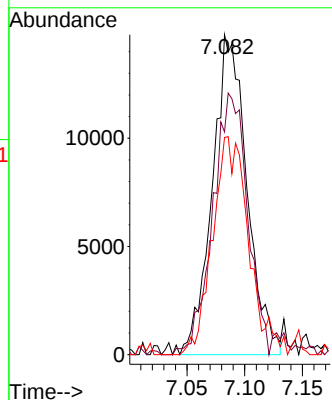
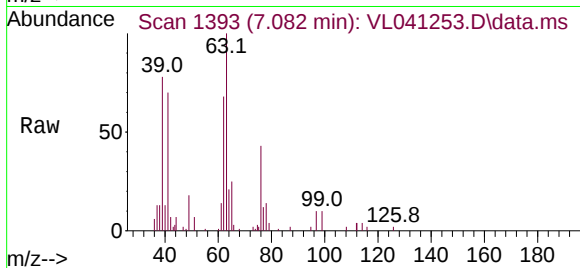
Tgt Ion: 63 Resp: 30747

Ion Ratio Lower Upper

63 100

41 67.7 59.4 89.0

62 67.8 56.8 85.2



#41

Tetrahydrofuran

Concen: 0.168 ppbv

RT: 5.594 min Scan# 930

Delta R.T. 0.023 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

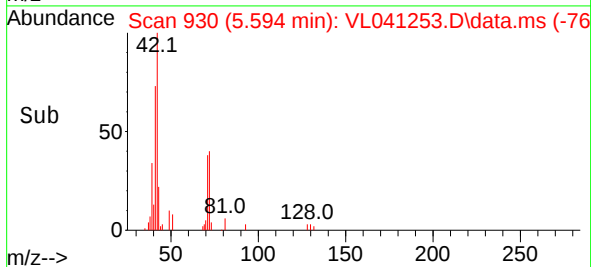
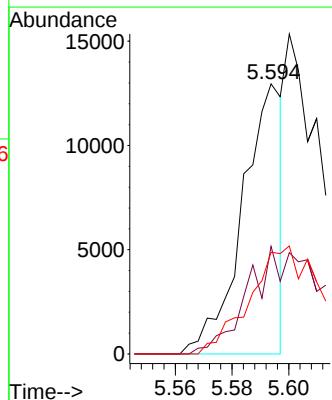
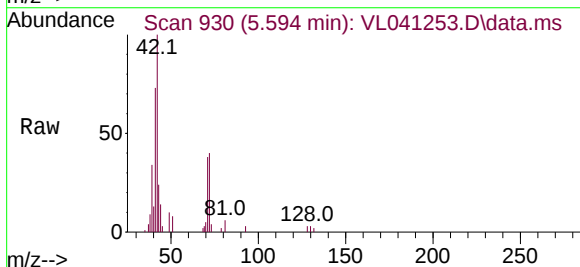
Tgt Ion: 42 Resp: 12635

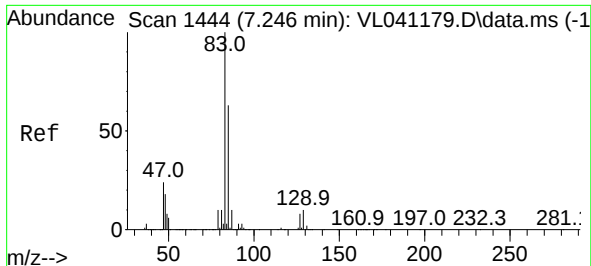
Ion Ratio Lower Upper

42 100

72 82.7 29.4 44.0#

71 0.0 29.1 43.7#





#42

Bromodichloromethane

Concen: 0.468 ppbv

RT: 7.266 min Scan# 1444

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

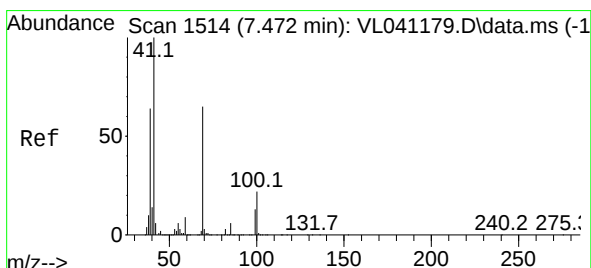
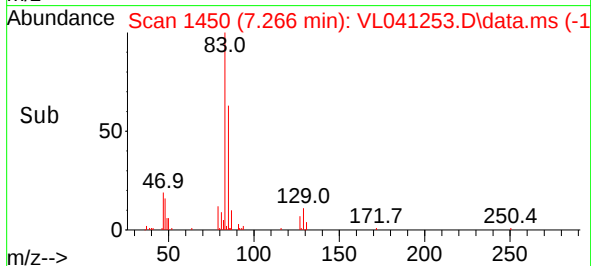
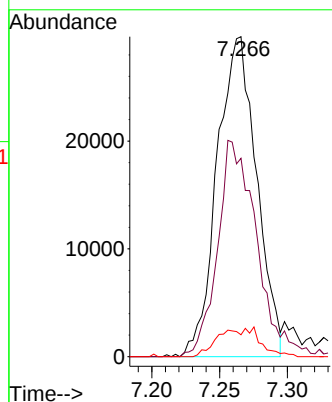
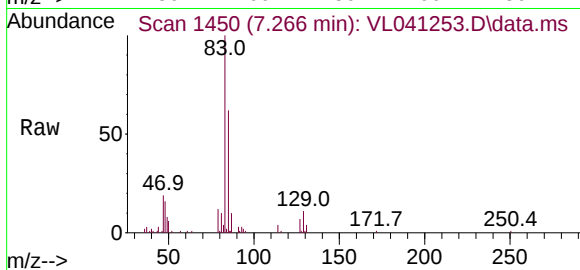
Tgt Ion: 83 Resp: 60129

Ion Ratio Lower Upper

83 100

85 62.0 50.6 75.8

127 6.8 6.2 9.4



#43

Methyl Methacrylate

Concen: 0.419 ppbv

RT: 7.494 min Scan# 1521

Delta R.T. 0.007 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

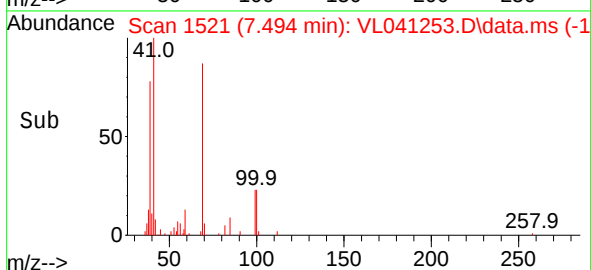
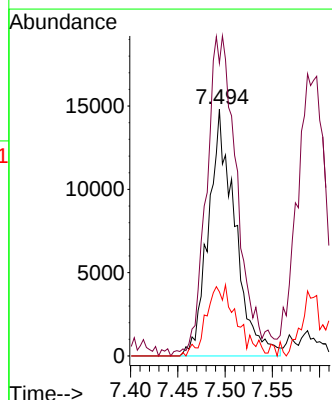
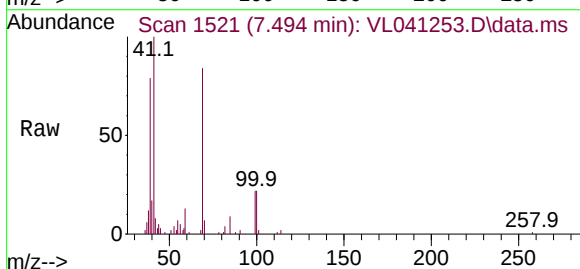
Tgt Ion: 69 Resp: 29069

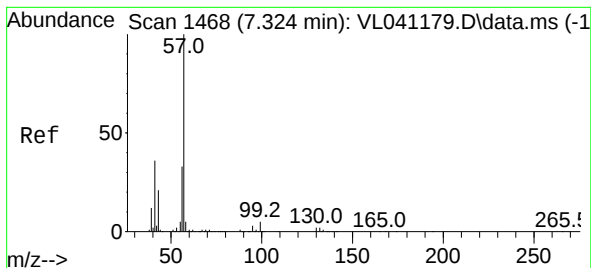
Ion Ratio Lower Upper

69 100

41 151.4 125.2 187.8

100 33.6 26.7 40.1





#44

2,2,4-Trimethylpentane

Concen: 0.442 ppbv

RT: 7.340 min Scan# 1468

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

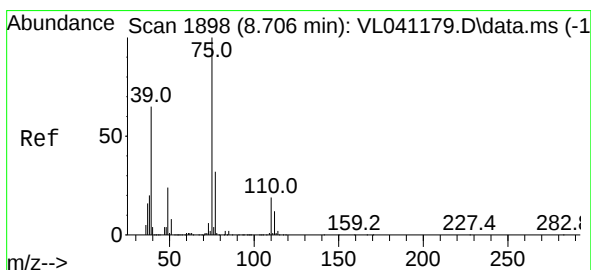
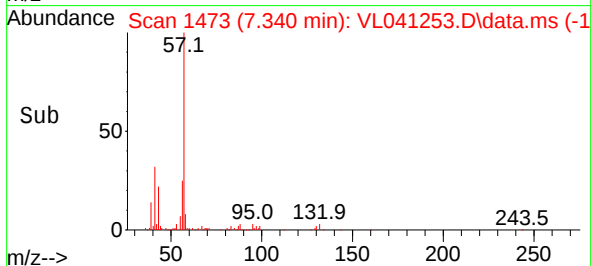
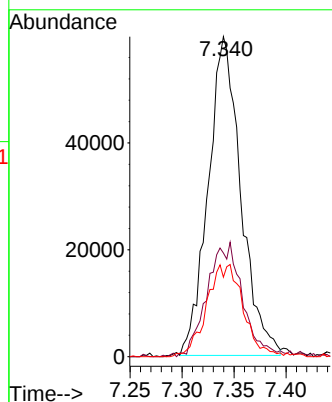
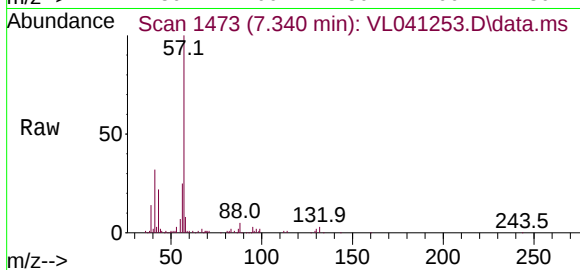
Tgt Ion: 57 Resp: 130808

Ion Ratio Lower Upper

57 100

41 39.9 29.5 44.3

56 32.5 25.3 37.9



#45

t-1,3-Dichloropropene

Concen: 0.047 ppbv

RT: 8.722 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VL041253.D

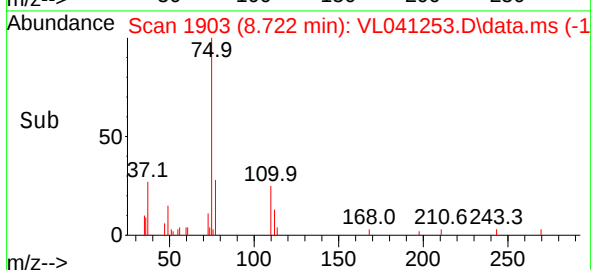
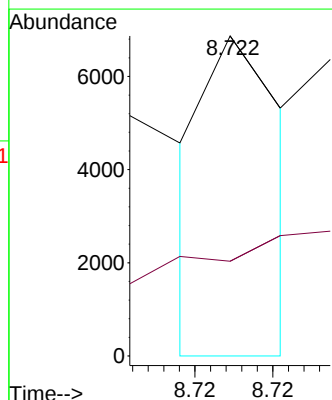
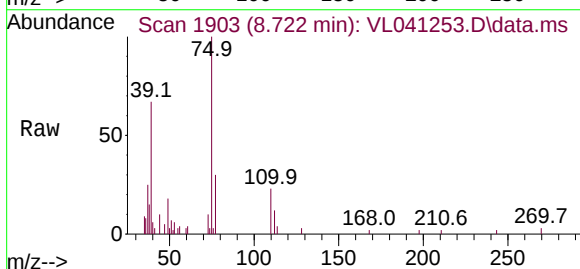
Acq: 9 May 2024 11:28

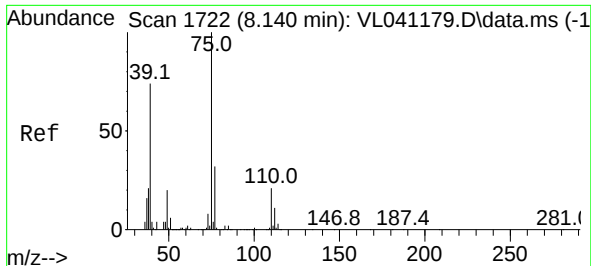
Tgt Ion: 75 Resp: 2353

Ion Ratio Lower Upper

75 100

77 28.8 25.6 38.4





#46

cis-1,3-Dichloropropene

Concen: 0.348 ppbv

RT: 8.156 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

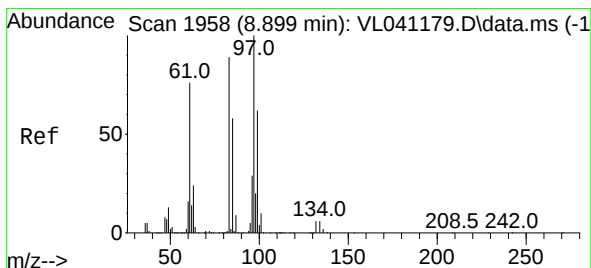
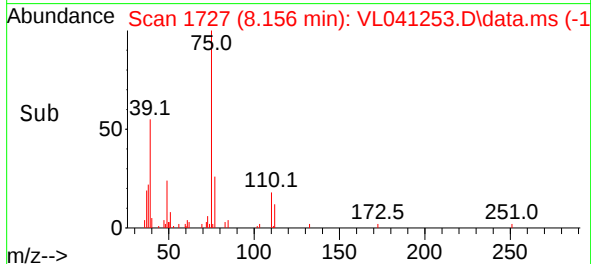
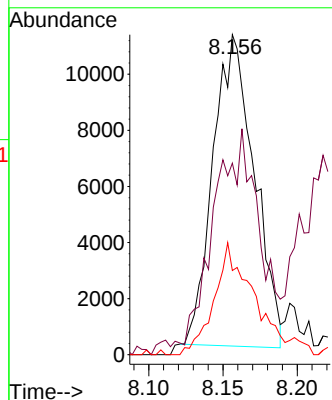
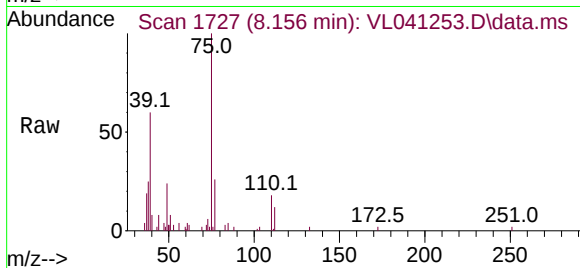
Tgt Ion: 75 Resp: 21439

Ion Ratio Lower Upper

75 100

39 58.1 59.4 89.2#

77 27.2 25.9 38.9



#47

1,1,2-Trichloroethane

Concen: 0.458 ppbv

RT: 8.912 min Scan# 1962

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion: 97 Resp: 30345

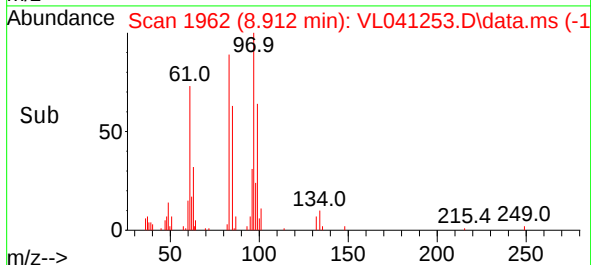
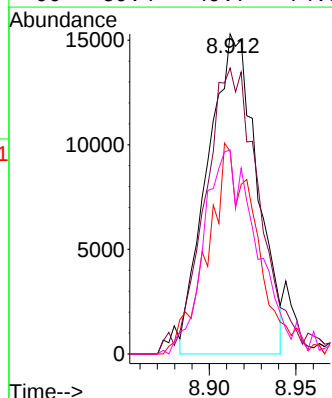
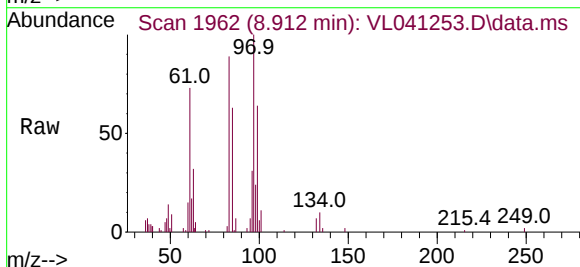
Ion Ratio Lower Upper

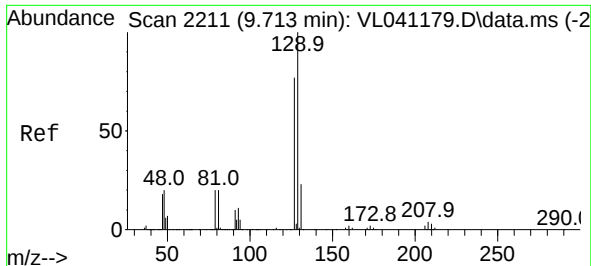
97 100

83 86.5 71.2 106.8

85 55.9 46.0 69.0

99 59.4 49.7 74.5





#48

Dibromochloromethane

Concen: 0.209 ppbv

RT: 9.725 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

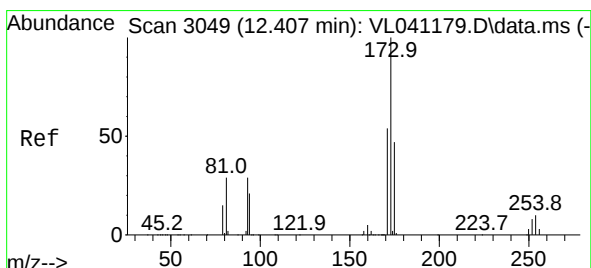
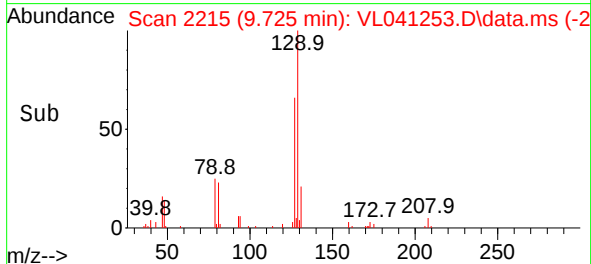
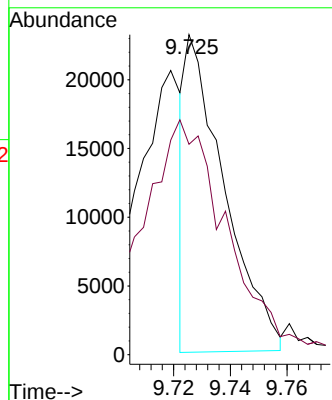
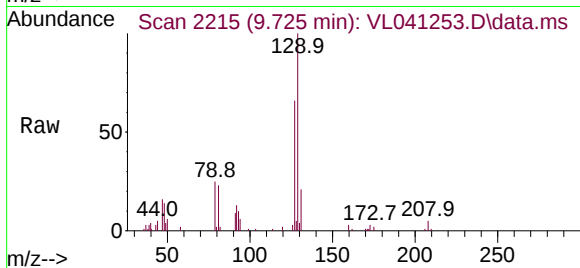
ClientSampleId :

Tgt Ion:129 Resp: 22056

Ion Ratio Lower Upper

129 100

127 167.5 39.1 117.5#



#49

Bromoform

Concen: 0.396 ppbv

RT: 12.420 min Scan# 3053

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

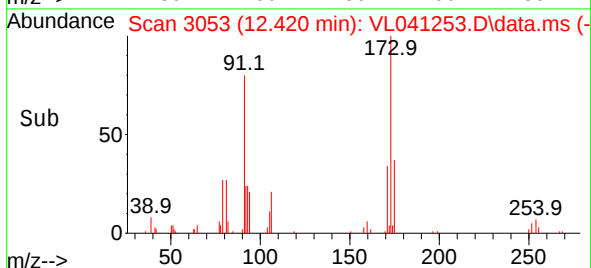
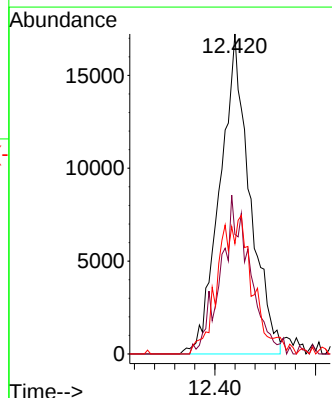
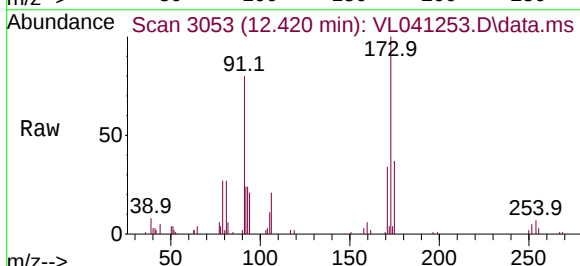
Tgt Ion:173 Resp: 35552

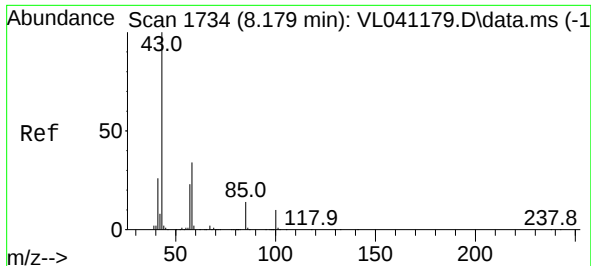
Ion Ratio Lower Upper

173 100

175 48.8 39.8 59.8

171 50.4 41.8 62.8





#50

4-Methyl-2-Pentanone

Concen: 0.198 ppbv

RT: 8.214 min Scan# 1

Delta R.T. 0.019 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

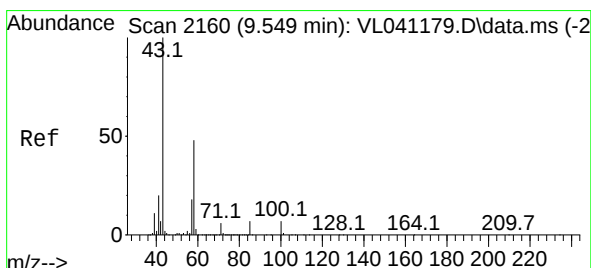
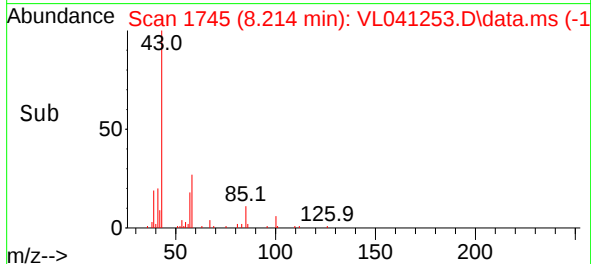
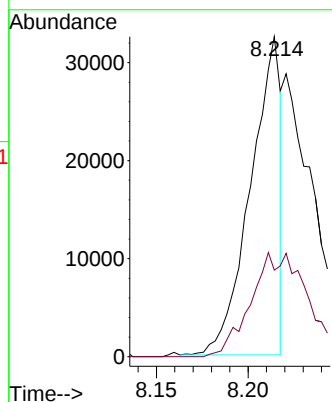
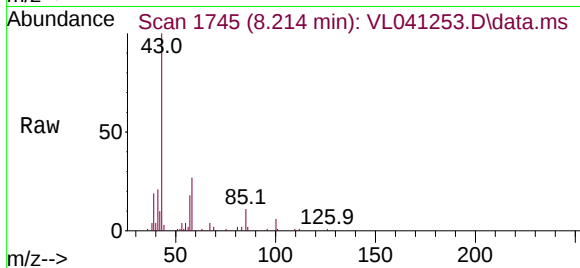
ClientSampleId :

Tgt Ion: 43 Resp: 36982

Ion Ratio Lower Upper

43 100

58 67.9 27.7 41.5#



#51

2-Hexanone

Concen: 0.210 ppbv

RT: 9.590 min Scan# 2173

Delta R.T. 0.026 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

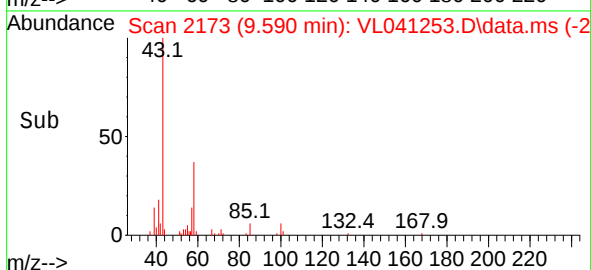
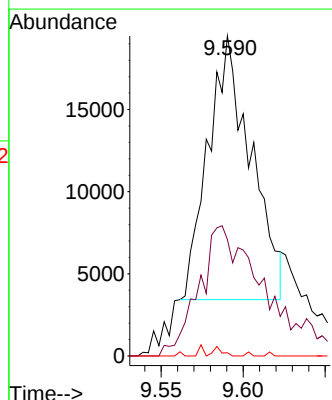
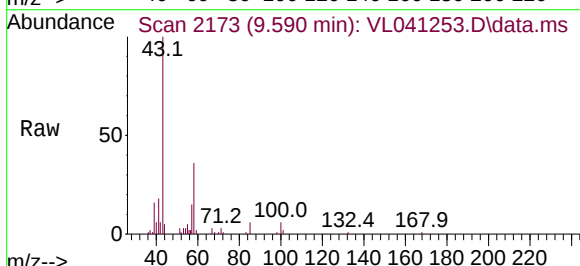
Tgt Ion: 43 Resp: 29090

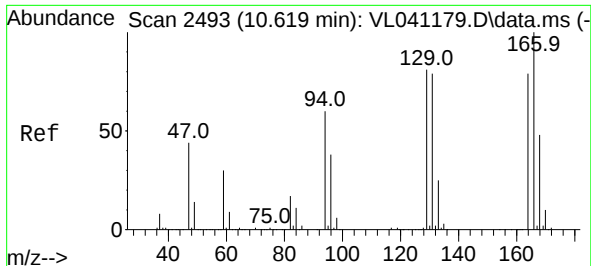
Ion Ratio Lower Upper

43 100

58 79.3 38.4 57.6#

98 1.2 0.0 0.0#





#52

Tetrachloroethene

Concen: 0.476 ppbv

RT: 10.626 min Scan# 2493

Delta R.T. -0.003 min

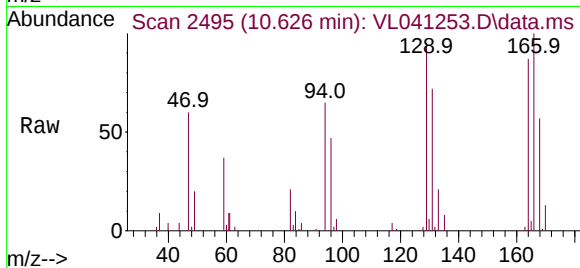
Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 28734

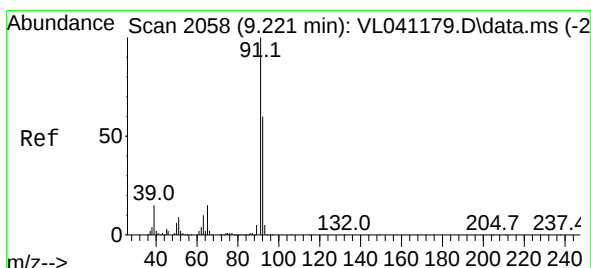
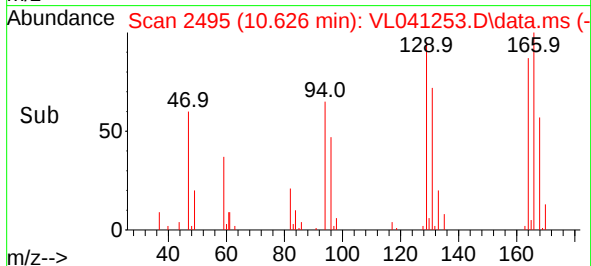
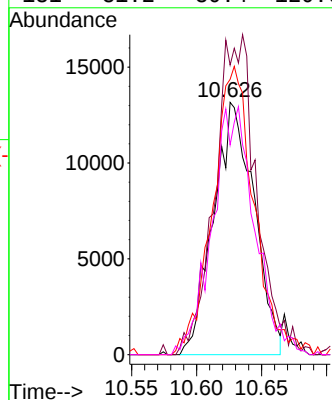
Ion Ratio Lower Upper

164 100

166 112.1 101.1 151.7

129 102.7 81.7 122.5

131 81.2 80.4 120.6



#53

Toluene

Concen: 0.246 ppbv

RT: 9.233 min Scan# 2062

Delta R.T. 0.000 min

Lab File: VL041253.D

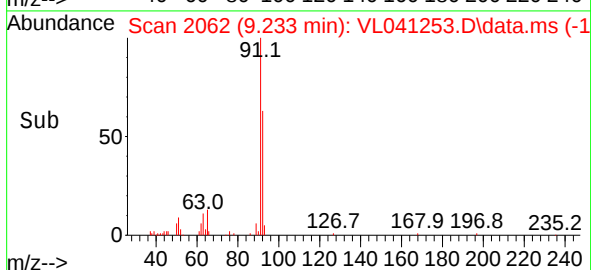
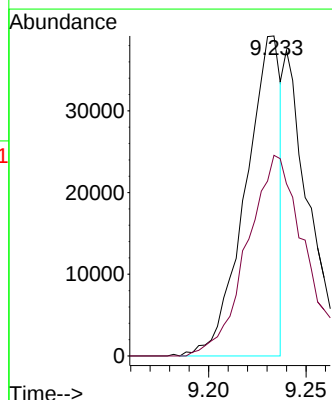
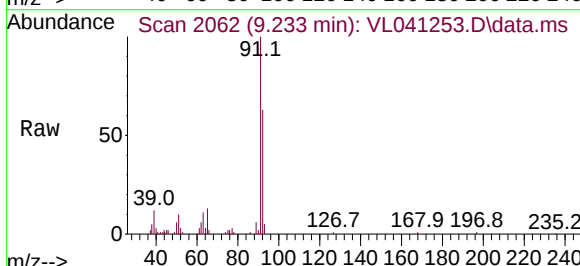
Acq: 9 May 2024 11:28

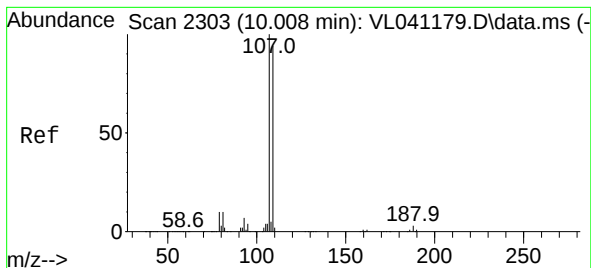
Tgt Ion: 91 Resp: 48915

Ion Ratio Lower Upper

91 100

92 106.2 48.2 72.4#





#54

1,2-Dibromoethane

Concen: 0.436 ppbv

RT: 10.024 min Scan# 2308

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

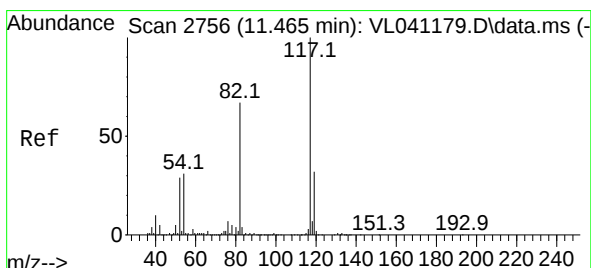
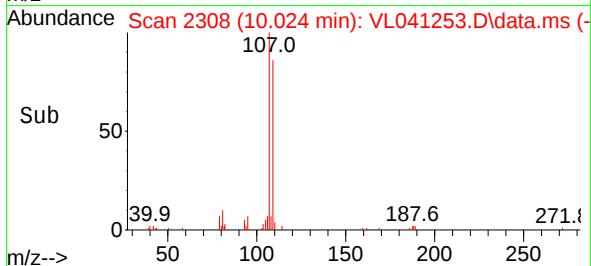
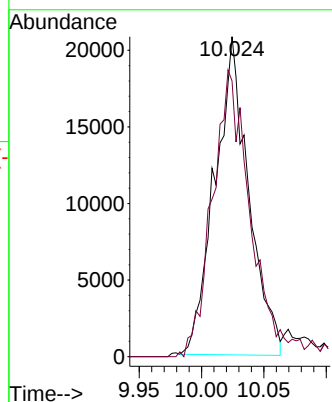
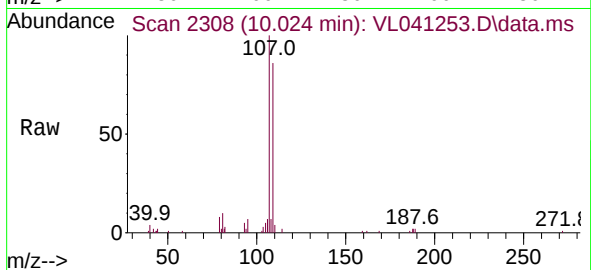
ClientSampleId :

Tgt Ion:107 Resp: 39065

Ion Ratio Lower Upper

107 100

109 85.3 75.2 112.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.478 min Scan# 2760

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

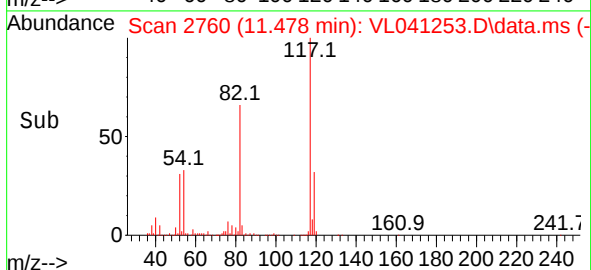
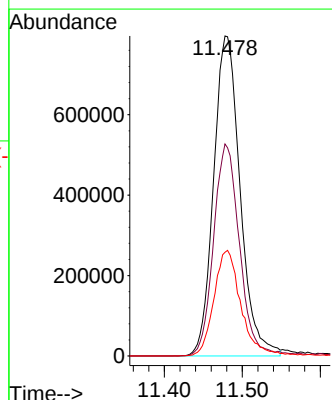
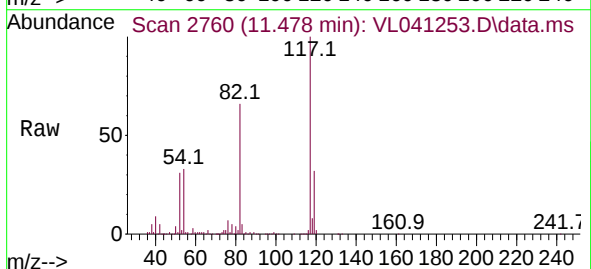
Tgt Ion:117 Resp: 1886193

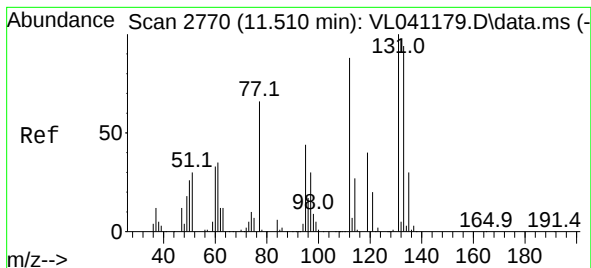
Ion Ratio Lower Upper

117 100

82 64.9 53.6 80.4

119 34.0 27.2 40.8





#56

1,1,1,2-Tetrachloroethane

Concen: 0.490 ppbv

RT: 11.520 min Scan# 2773

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

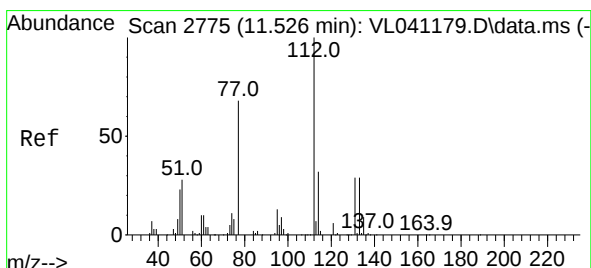
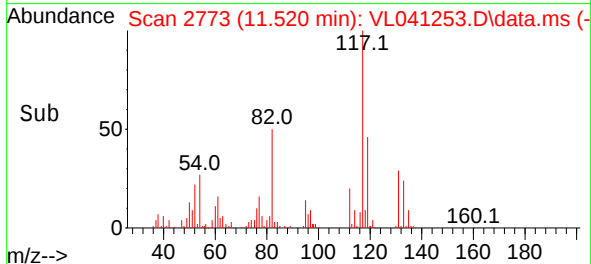
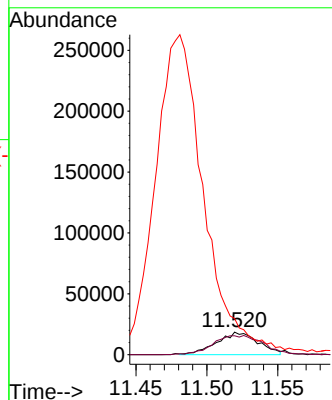
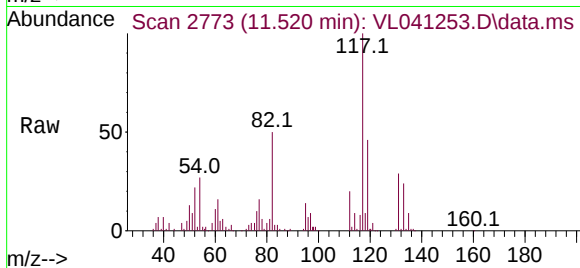
Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:131 Resp: 37481

Ion	Ratio	Lower	Upper
131	100		
133	104.5	76.3	114.5
119	1710.4	49.4	74.2#



#57

Chlorobenzene

Concen: 0.521 ppbv

RT: 11.539 min Scan# 2779

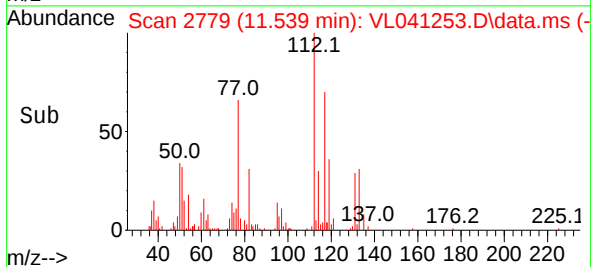
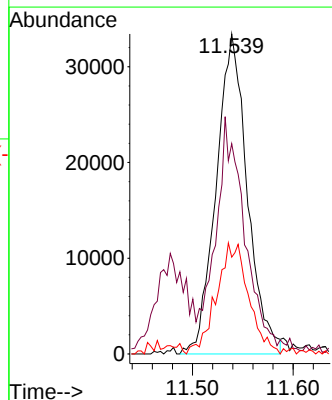
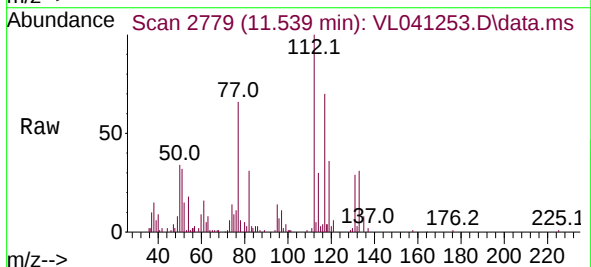
Delta R.T. -0.003 min

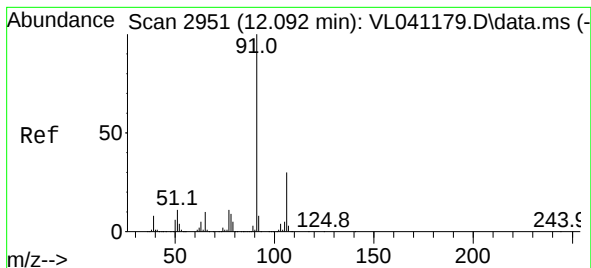
Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:112 Resp: 72022

Ion	Ratio	Lower	Upper
112	100		
77	61.3	54.9	82.3
114	30.2	28.7	35.1





#58

Ethyl Benzene

Concen: 0.441 ppbv

RT: 12.105 min Scan# 2951

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

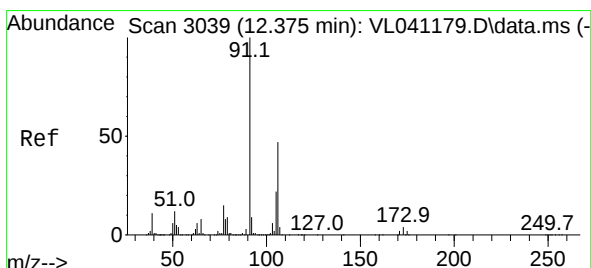
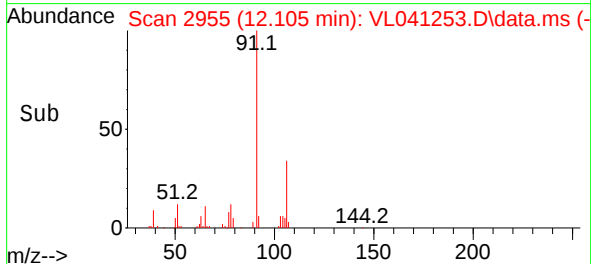
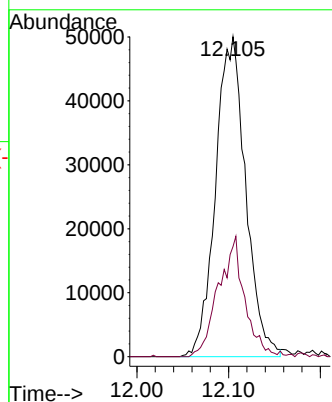
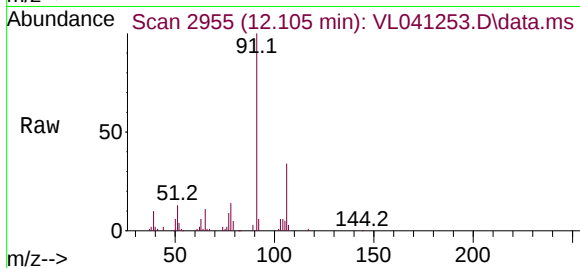
ClientSampleId :

Tgt Ion: 91 Resp: 114105

Ion Ratio Lower Upper

91 100

106 34.4 24.3 36.5



#59

m/p-Xylene

Concen: 0.472 ppbv

RT: 12.384 min Scan# 3042

Delta R.T. 0.000 min

Lab File: VL041253.D

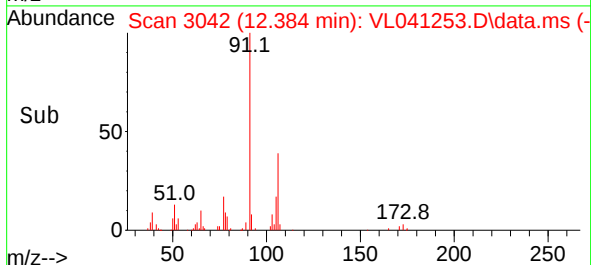
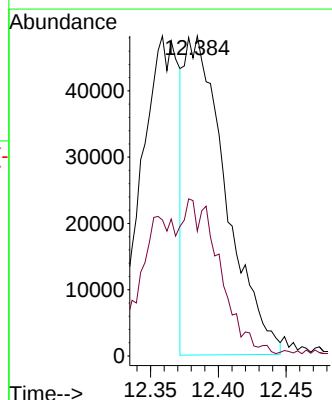
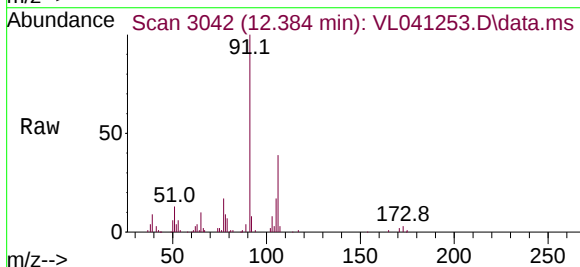
Acq: 9 May 2024 11:28

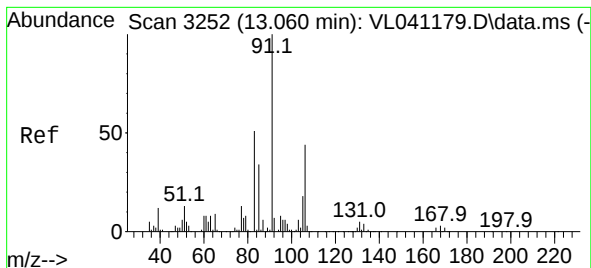
Tgt Ion: 91 Resp: 102609

Ion Ratio Lower Upper

91 100

106 85.0 35.7 53.5#





#60

o-Xylene

Concen: 0.476 ppbv

RT: 13.069 min Scan# 31

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

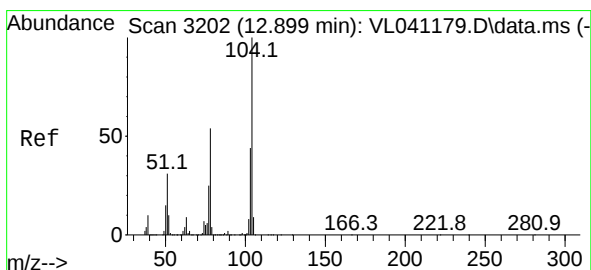
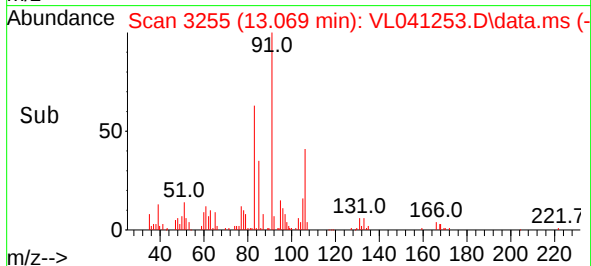
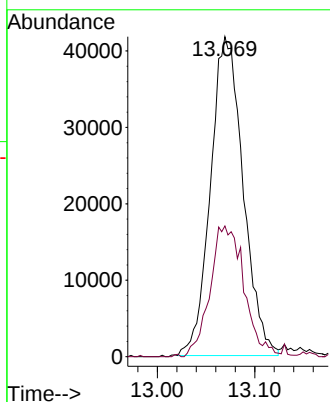
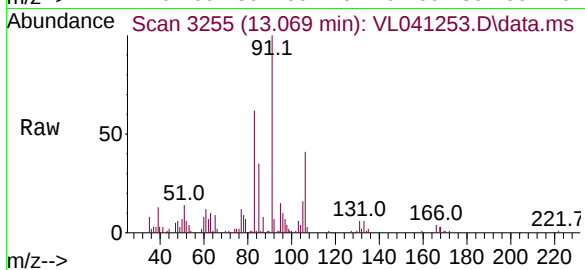
ClientSampleId :

Tgt Ion: 91 Resp: 96953

Ion Ratio Lower Upper

91 100

106 43.4 22.4 67.3



#61

Styrene

Concen: 0.165 ppbv

RT: 12.905 min Scan# 3204

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

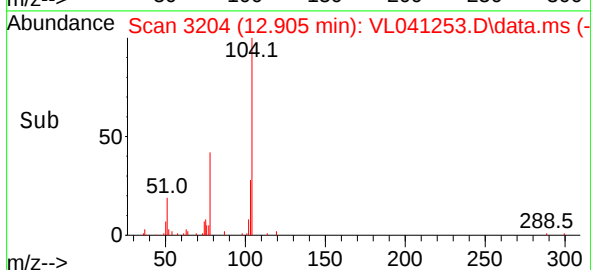
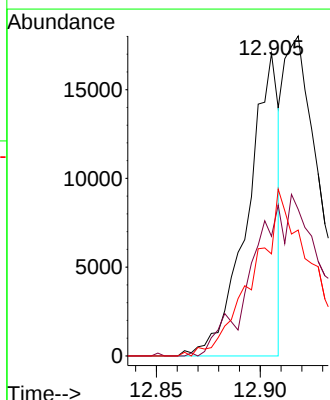
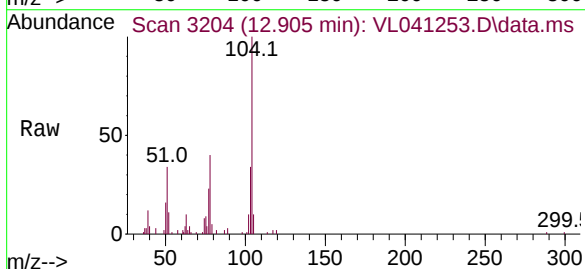
Tgt Ion:104 Resp: 17746

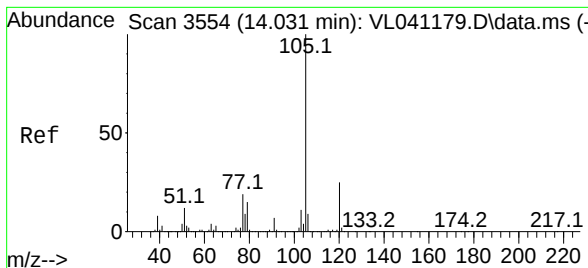
Ion Ratio Lower Upper

104 100

78 0.0 42.6 63.8#

103 106.0 38.4 57.6#





#62

Isopropylbenzene

Concen: 0.475 ppbv

RT: 14.044 min Scan# 3558

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

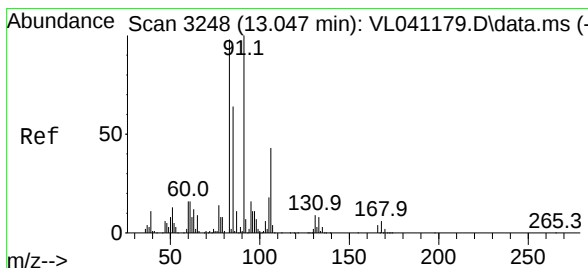
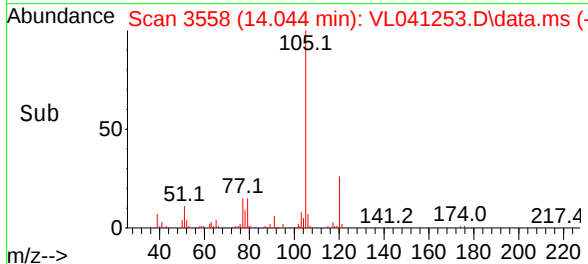
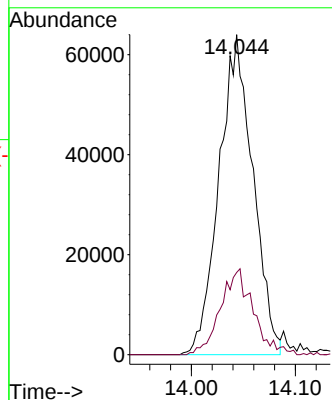
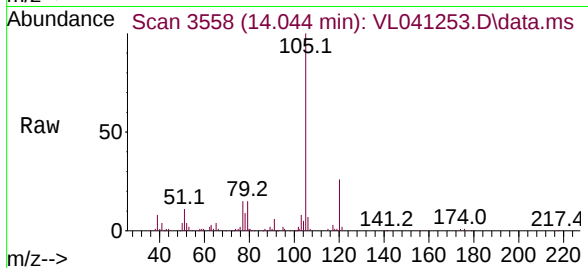
ClientSampleId :

Tgt Ion:105 Resp: 144680

Ion Ratio Lower Upper

105 100

120 26.1 20.2 30.2



#63

1,1,2,2-Tetrachloroethane

Concen: 0.426 ppbv

RT: 13.060 min Scan# 3252

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

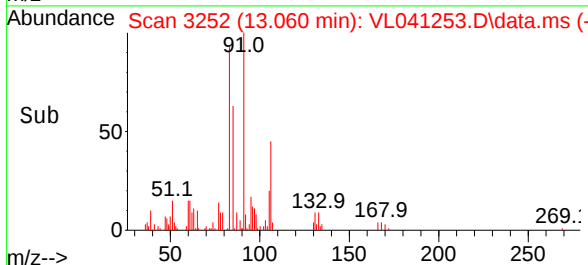
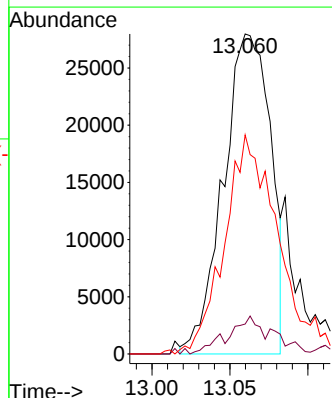
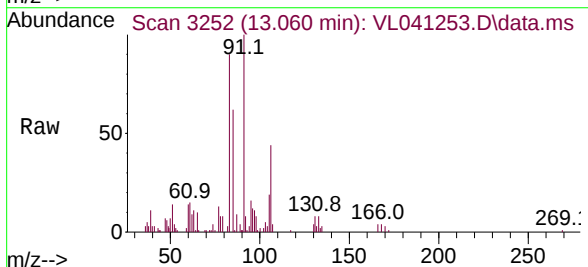
Tgt Ion: 83 Resp: 59170

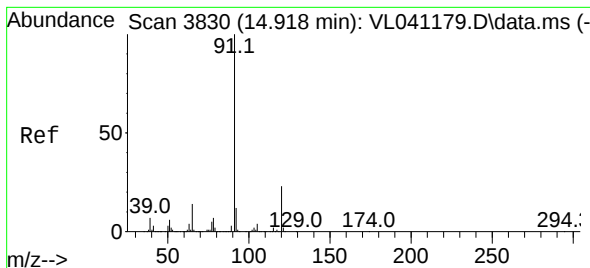
Ion Ratio Lower Upper

83 100

131 12.6 4.5 13.5

85 82.3 32.7 98.1





#64

n-propylbenzene

Concen: 0.463 ppbv

RT: 14.925 min Scan# 3832

Delta R.T. -0.006 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

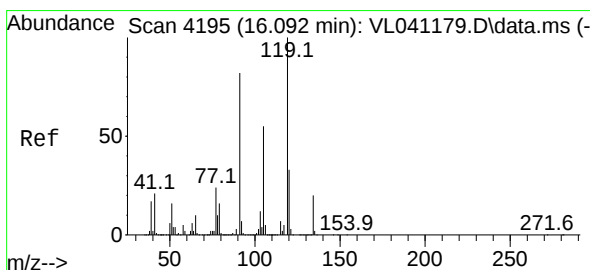
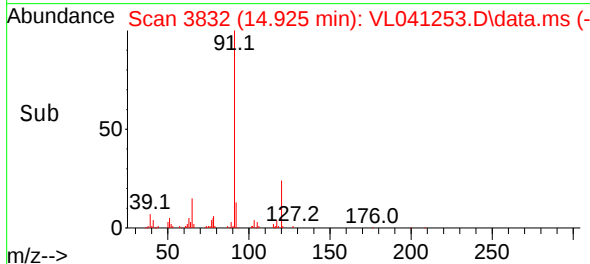
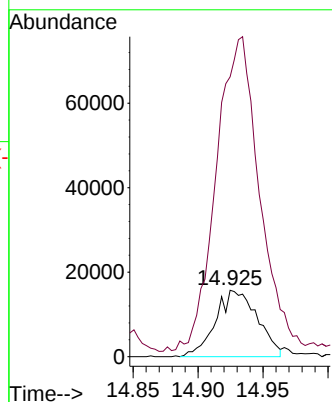
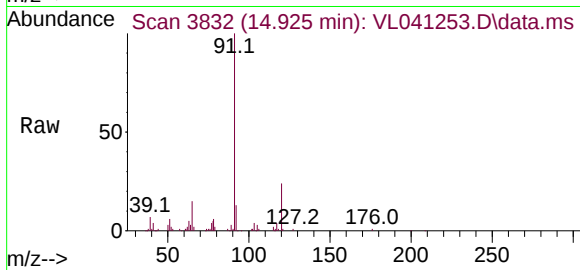
ClientSampleId :

Tgt Ion:120 Resp: 35177

Ion Ratio Lower Upper

120 100

91 522.1 384.8 577.2



#65

tert-Butylbenzene

Concen: 0.465 ppbv

RT: 16.108 min Scan# 4200

Delta R.T. 0.007 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

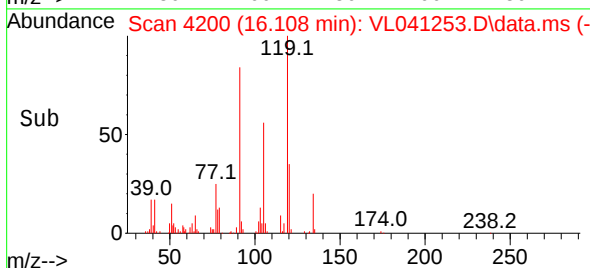
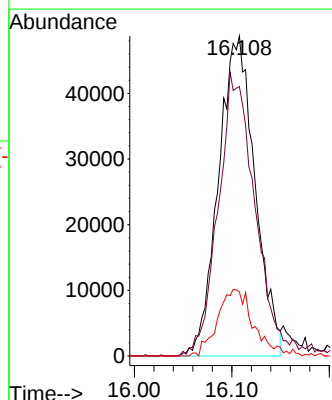
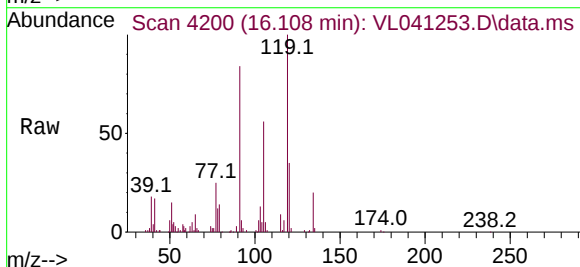
Tgt Ion:119 Resp: 126861

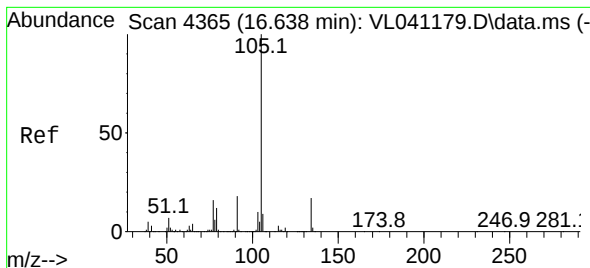
Ion Ratio Lower Upper

119 100

91 89.9 67.0 100.4

134 20.9 15.2 22.8





#67

sec-Butylbenzene

Concen: 0.469 ppbv

RT: 16.651 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

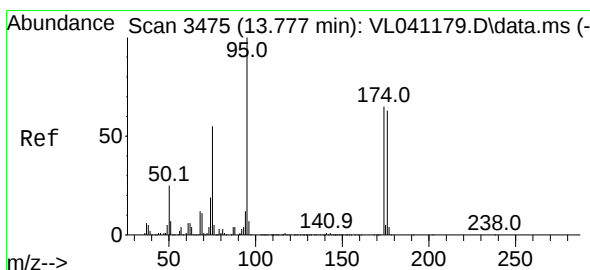
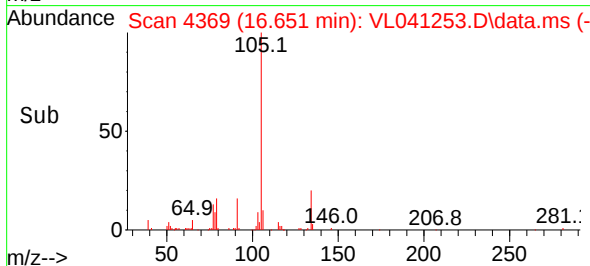
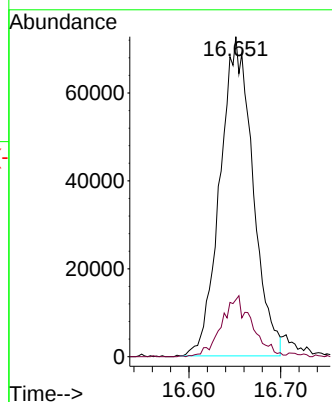
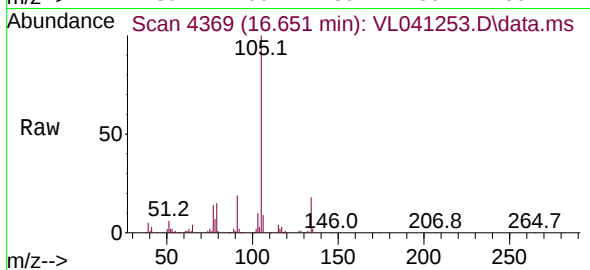
ClientSampleId :

Tgt Ion:105 Resp: 180409

Ion Ratio Lower Upper

105 100

134 18.3 13.8 20.8



#68

1-Bromo-4-Fluorobenzene

Concen: 10.279 ppbv

RT: 13.790 min Scan# 3479

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

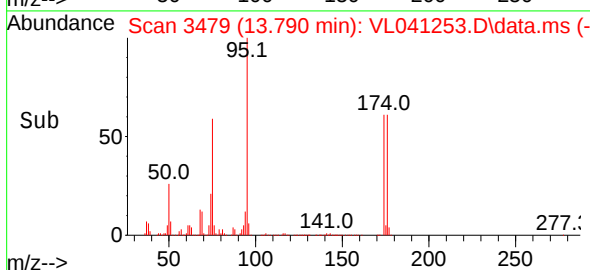
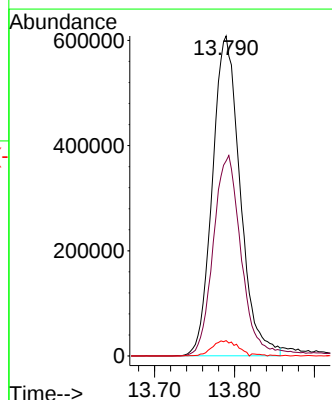
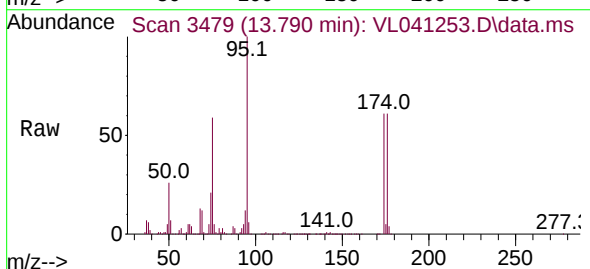
Tgt Ion: 95 Resp: 1463725

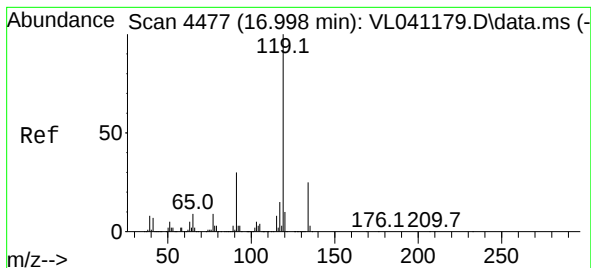
Ion Ratio Lower Upper

95 100

174 65.5 53.6 80.4

175 4.7 4.2 6.4





#69

p-Isopropyltoluene

Concen: 0.194 ppbv

RT: 17.005 min Scan# 4477

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

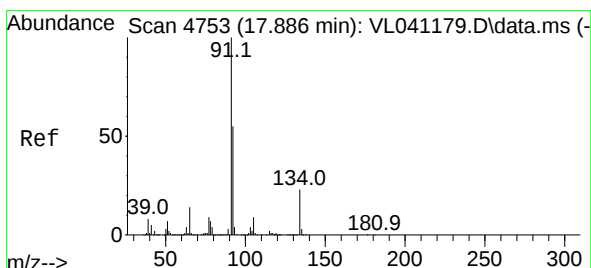
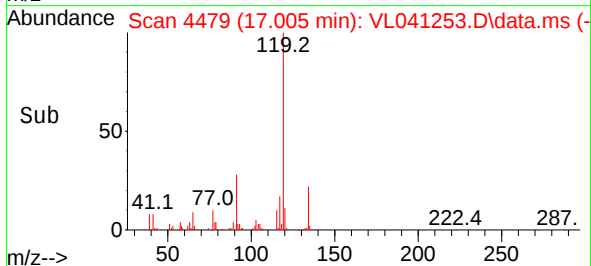
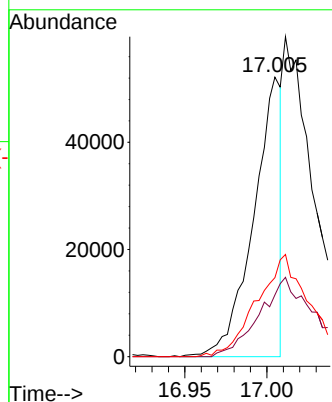
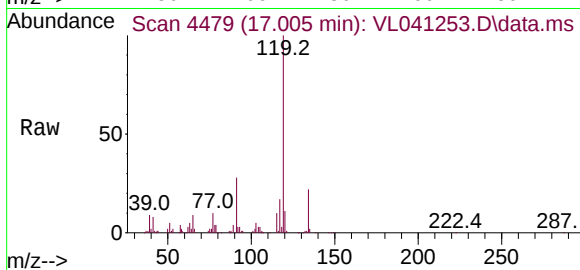
Tgt Ion:119 Resp: 61483

Ion Ratio Lower Upper

119 100

134 0.0 20.1 30.1#

91 0.0 24.2 36.2#



#70

n-Butylbenzene

Concen: 0.433 ppbv

RT: 17.902 min Scan# 4758

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

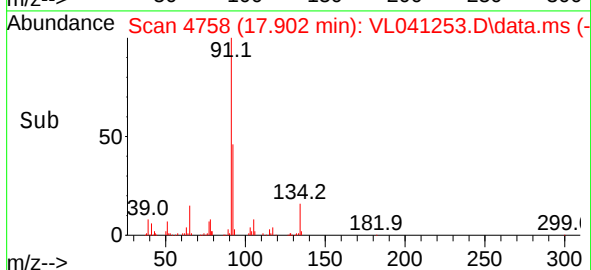
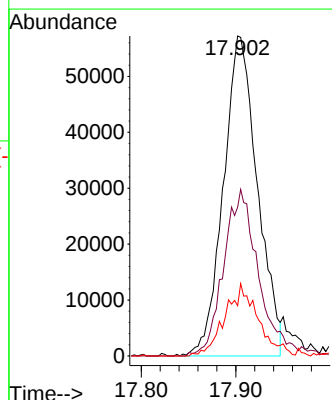
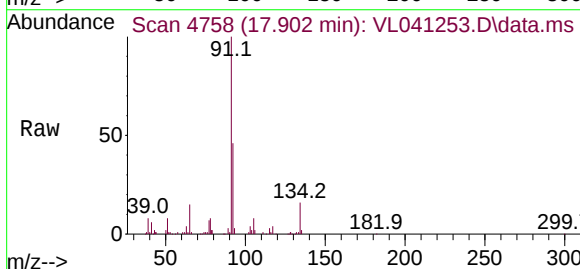
Tgt Ion: 91 Resp: 143240

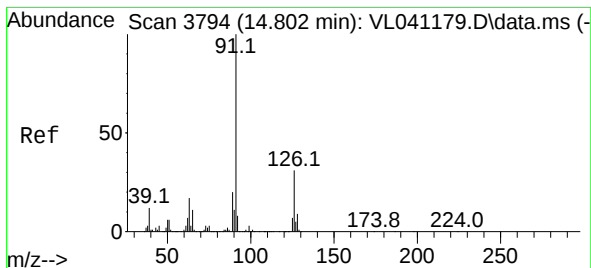
Ion Ratio Lower Upper

91 100

92 54.4 43.3 64.9

134 22.5 17.8 26.8

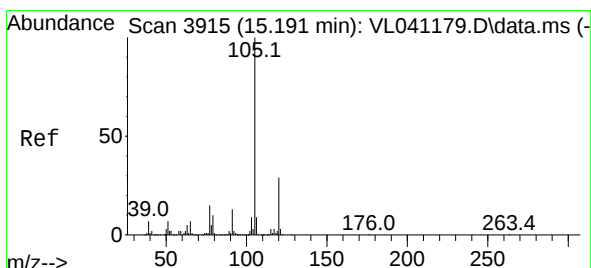
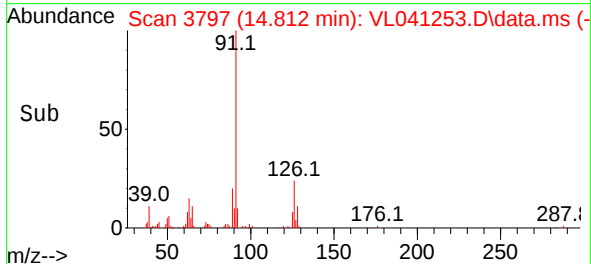
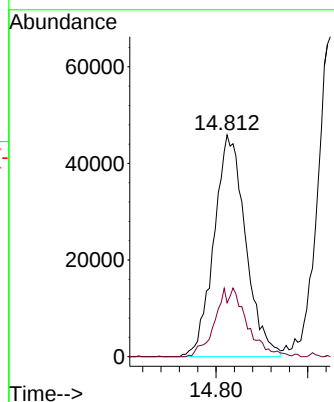
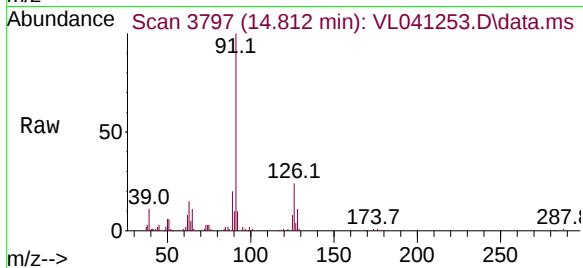




#71
2-Chlorotoluene
Concen: 0.473 ppbv
RT: 14.812 min Scan# 3797
Delta R.T. 0.000 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

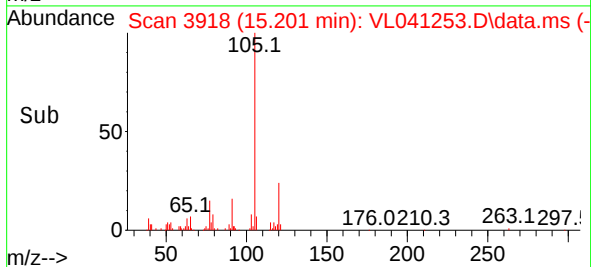
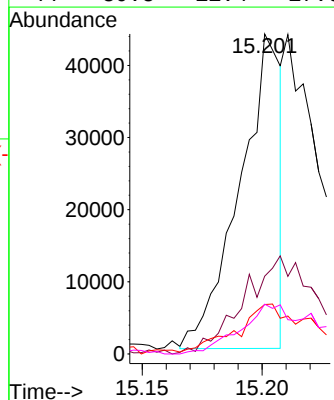
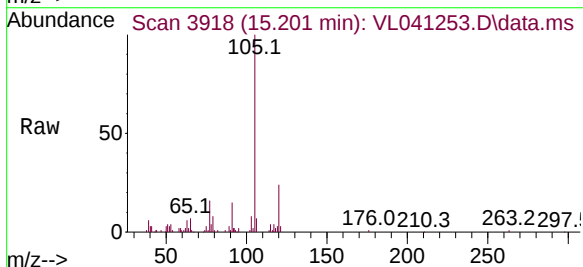
Instrument :
MSVOA_L
ClientSampleId :

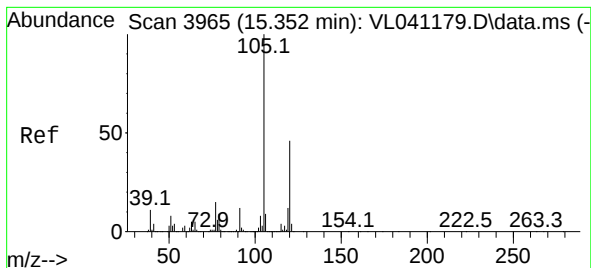
Tgt Ion: 91 Resp: 109816
Ion Ratio Lower Upper
91 100
126 31.3 12.2 48.8



#72
4-Ethyltoluene
Concen: 0.224 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. -0.006 min
Lab File: VL041253.D
Acq: 9 May 2024 11:28

Tgt Ion:105 Resp: 51723
Ion Ratio Lower Upper
105 100
120 0.0 24.7 37.1#
91 0.0 10.3 15.5#
77 30.8 11.4 17.0#





#73

1,3,5-Trimethylbenzene

Concen: 0.221 ppbv

RT: 15.362 min Scan# 3965

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

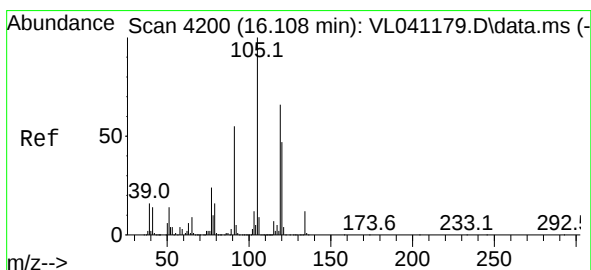
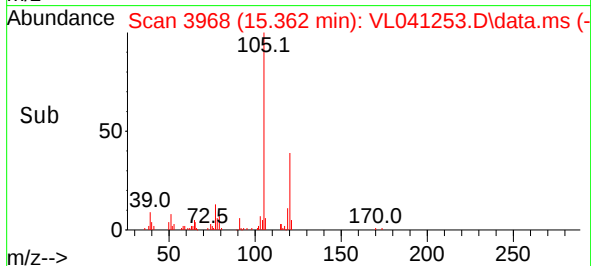
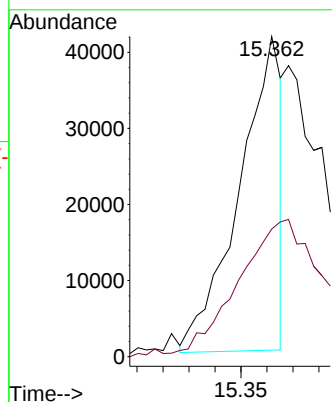
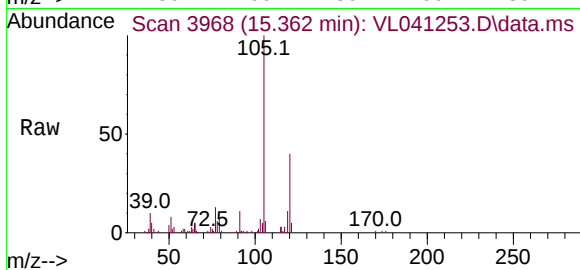
ClientSampleId :

Tgt Ion:105 Resp: 46233

Ion Ratio Lower Upper

105 100

120 38.8 37.0 55.4



#74

1,2,4-Trimethylbenzene

Concen: 0.290 ppbv

RT: 16.121 min Scan# 4204

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:105 Resp: 66220

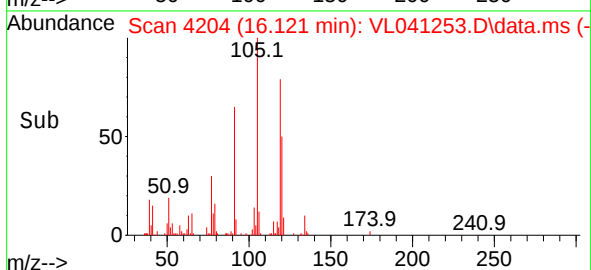
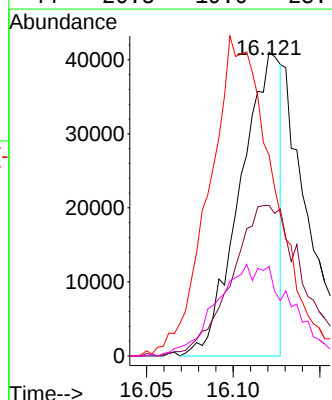
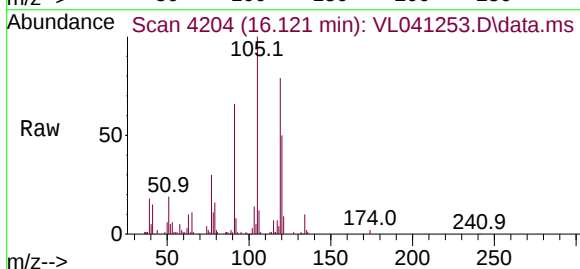
Ion Ratio Lower Upper

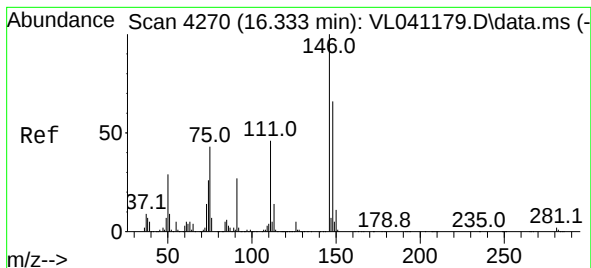
105 100

120 48.2 37.8 56.6

91 55.4 44.3 66.5

77 26.5 19.0 28.4





#75

1,3-Dichlorobenzene

Concen: 0.460 ppbv

RT: 16.349 min Scan# 41

Delta R.T. 0.007 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

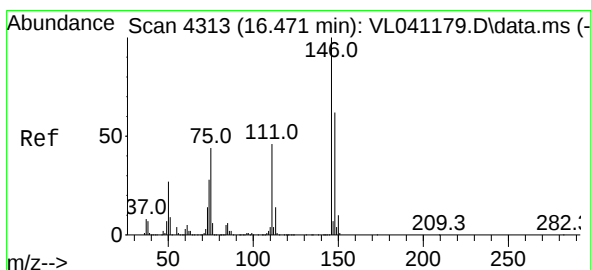
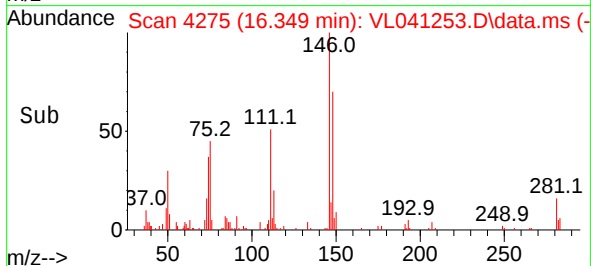
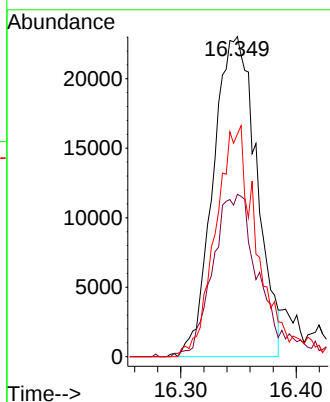
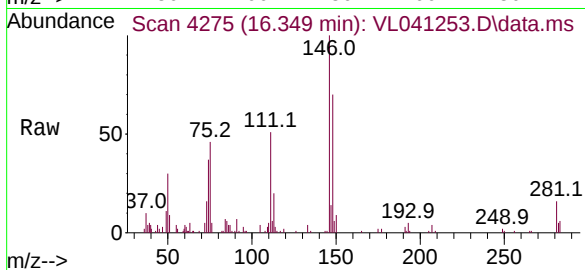
Tgt Ion:146 Resp: 60105

Ion Ratio Lower Upper

146 100

111 55.9 23.7 71.1

148 70.1 32.5 97.4



#76

1,4-Dichlorobenzene

Concen: 0.472 ppbv

RT: 16.487 min Scan# 4318

Delta R.T. 0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

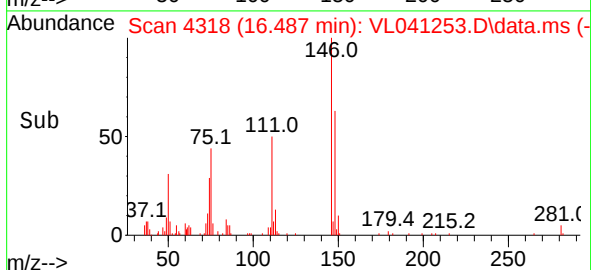
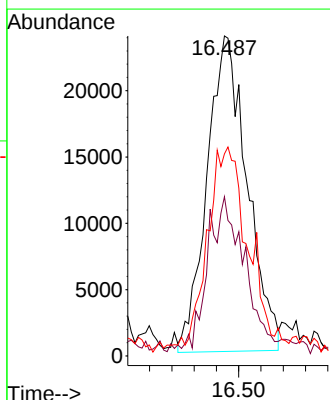
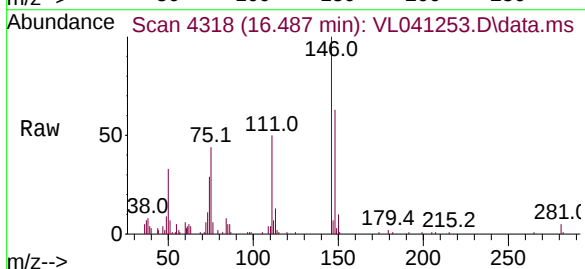
Tgt Ion:146 Resp: 59423

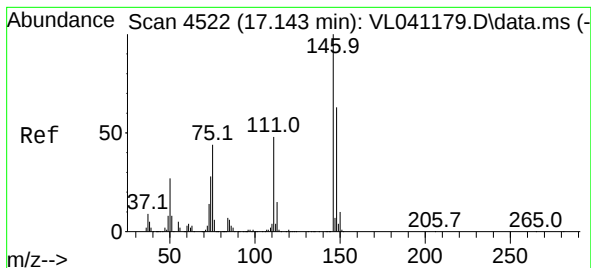
Ion Ratio Lower Upper

146 100

111 53.8 23.3 69.8

148 70.7 32.6 97.7





#77

1,2-Dichlorobenzene

Concen: 0.230 ppbv

RT: 17.159 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

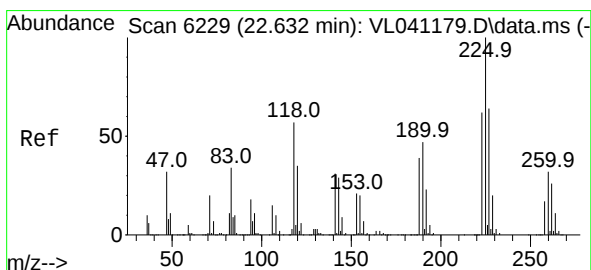
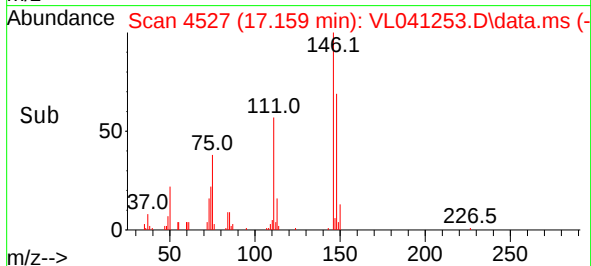
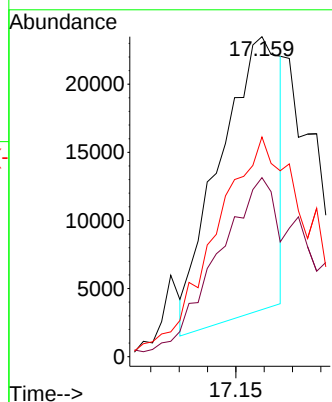
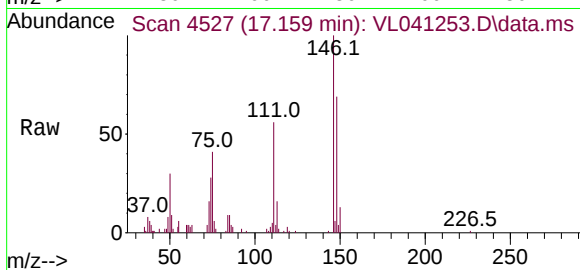
Tgt Ion:146 Resp: 30027

Ion Ratio Lower Upper

146 100

111 109.7 24.5 73.5#

148 147.9 32.6 98.0#



#78

Hexachloro-1,3-Butadiene

Concen: 0.448 ppbv

RT: 22.645 min Scan# 6233

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

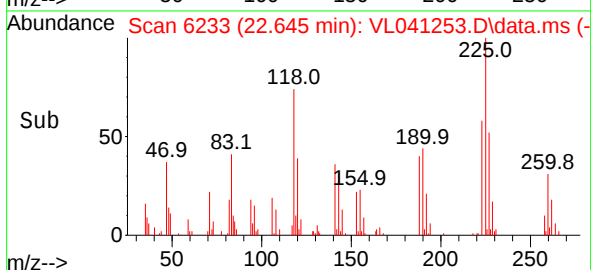
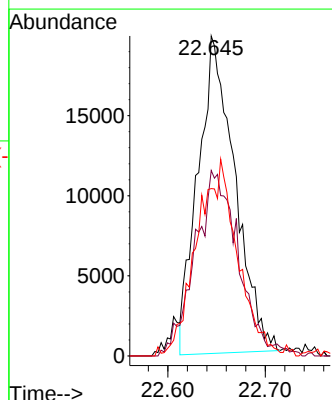
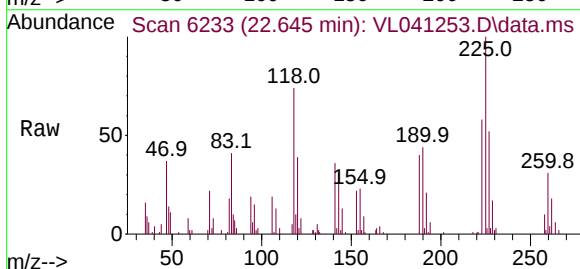
Tgt Ion:225 Resp: 52047

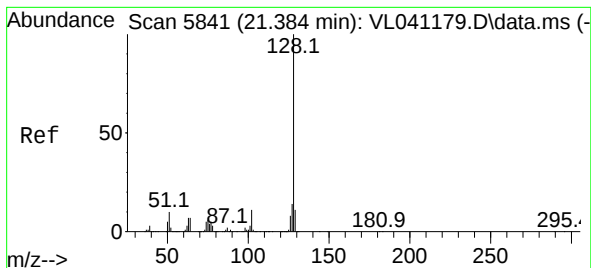
Ion Ratio Lower Upper

225 100

223 69.2 50.9 76.3

227 69.3 52.0 78.0





#79

Naphthalene

Concen: 0.107 ppbv

RT: 21.397 min Scan# 5

Delta R.T. -0.003 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Instrument :

MSVOA_L

ClientSampleId :

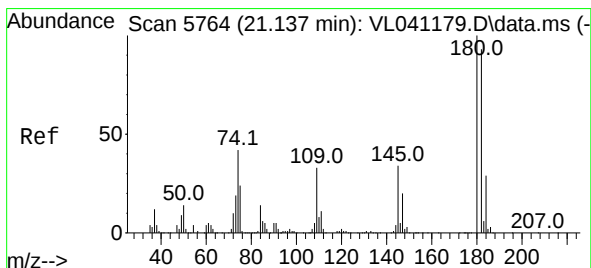
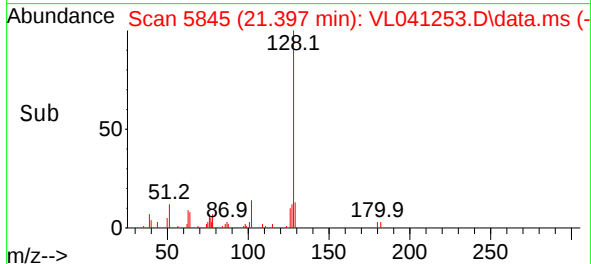
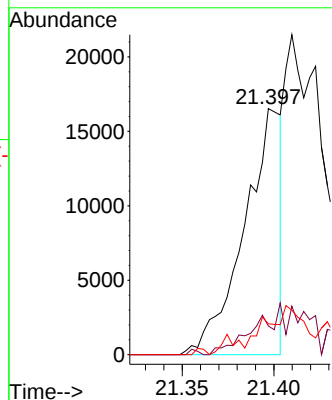
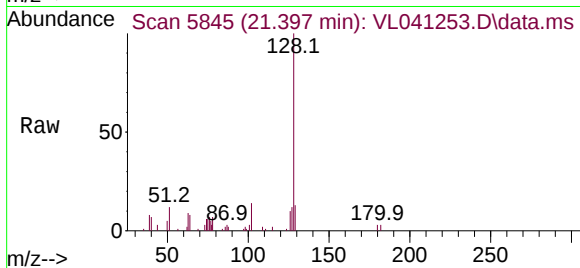
Tgt Ion:128 Resp: 23146

Ion Ratio Lower Upper

128 100

127 11.6 10.8 16.2

129 12.6 8.9 13.3



#81

1,2,4-Trichlorobenzene

Concen: 0.233 ppbv

RT: 21.162 min Scan# 5772

Delta R.T. 0.010 min

Lab File: VL041253.D

Acq: 9 May 2024 11:28

Tgt Ion:180 Resp: 26768

Ion Ratio Lower Upper

180 100

182 147.8 77.2 115.8#

184 44.9 24.6 36.8#

