

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL060424\
 Data File : VL041315.D
 Acq On : 4 Jun 2024 21:31
 Operator : SY/MD
 Sample : P2682-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jun 05 05:31:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL060424AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Jun 05 04:42:10 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.198	49	878348	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2249448	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	1840985	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1404209	9.879	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

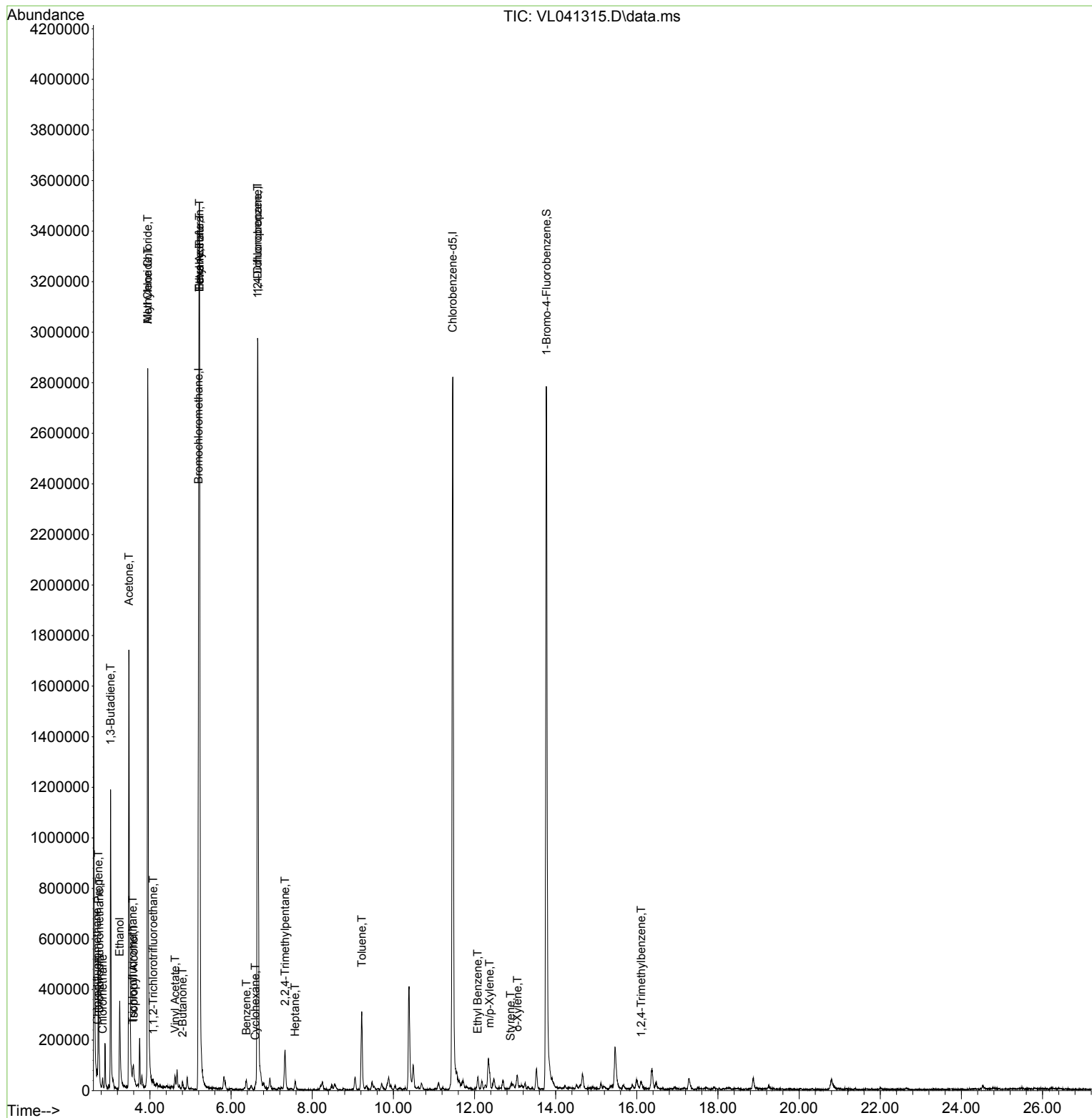
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.755	85	55837	0.398	ppbv	91
3) Chlorodifluoromethane	2.697	51	64534	0.465	ppbv	93
4) Chloromethane	2.835	50	26710	0.511	ppbv	96
9) Propene	2.729	41	95399	1.930	ppbv #	66
10) Heptane	7.578	43	5117	0.044	ppbv #	28
11) Trichlorofluoromethane	3.578	101	28508	0.221	ppbv	93
12) 1,1,2-Trichlorotrifluo...	4.082	101	6070	0.067	ppbv	96
13) Ethanol	3.256	45	374059	29.081	ppbv	99
15) Acetone	3.481	43	1747545	17.426	ppbv	98
16) 1,3-Butadiene	3.031	39	135296	2.684	ppbv #	14
19) Isopropyl Alcohol	3.597	45	63076	1.001	ppbv #	95
20) Methylene Chloride	3.947	84	893437	24.511	ppbv	96
21) Allyl Chloride	3.947	41	35403	0.557	ppbv #	30
23) Vinyl Acetate	4.623	43	11012	0.107	ppbv #	35
25) Ethyl Acetate	5.221	43	886047	4.466	ppbv #	78
26) Hexane	5.221	57	1245278	13.958	ppbv #	40
30) Cyclohexane	6.597	84	2652	0.037	ppbv #	1
34) 2-Butanone	4.803	43	14212	0.132	ppbv #	13
36) Benzene	6.378	78	13022	0.075	ppbv #	91
39) 1,2-Dichloropropane	6.658	63	566990	8.167	ppbv #	24
41) Tetrahydrofuran	5.221	42	467794	6.672	ppbv #	50
44) 2,2,4-Trimethylpentane	7.330	57	136879	0.456	ppbv	90
53) Toluene	9.221	91	196439	0.979	ppbv	97
58) Ethyl Benzene	12.076	91	15814	0.067	ppbv	95
59) m/p-Xylene	12.375	91	18111	0.090	ppbv #	31
60) o-Xylene	13.060	91	34984	0.182	ppbv	90
61) Styrene	12.889	104	3741	0.040	ppbv #	73
74) 1,2,4-Trimethylbenzene	16.111	105	7662	0.035	ppbv #	76

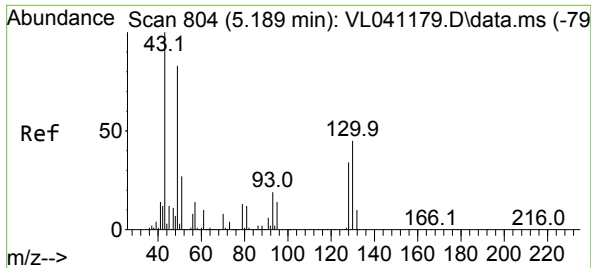
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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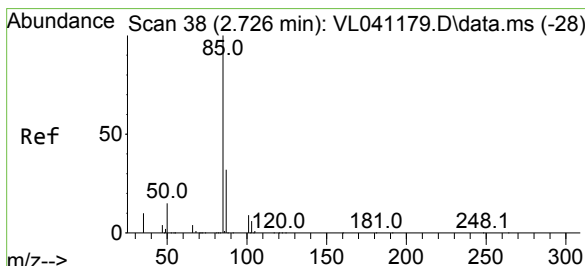
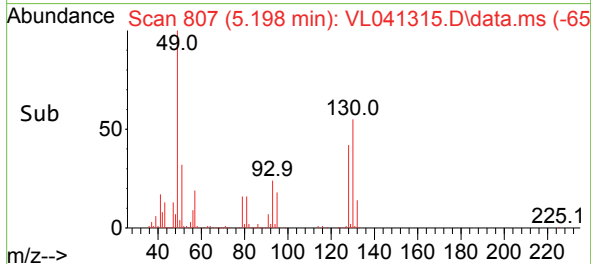
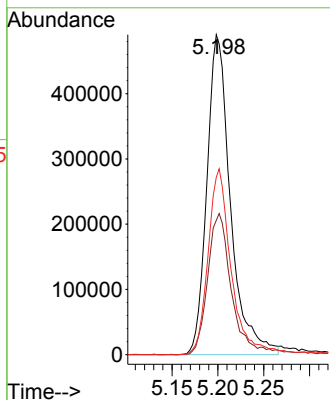
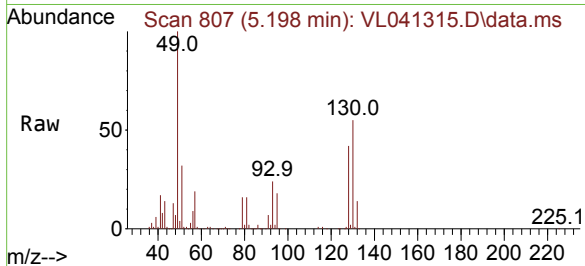




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. -0.007 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

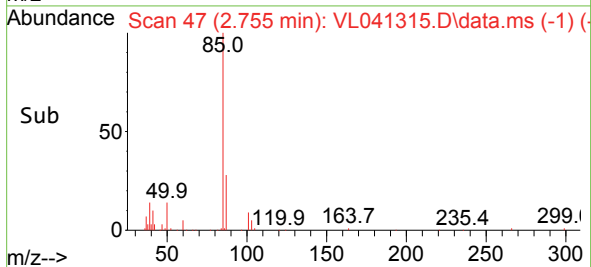
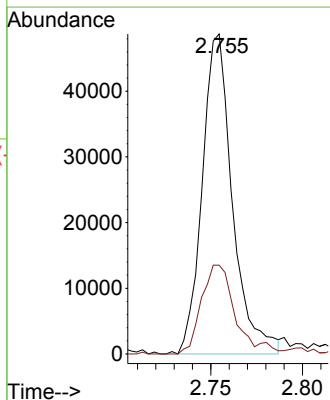
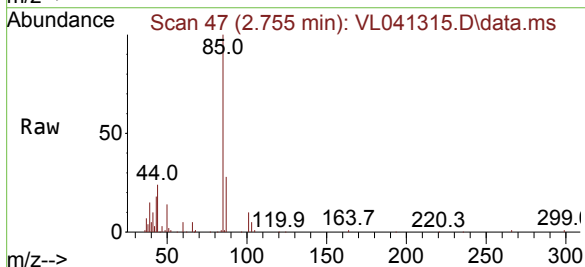
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

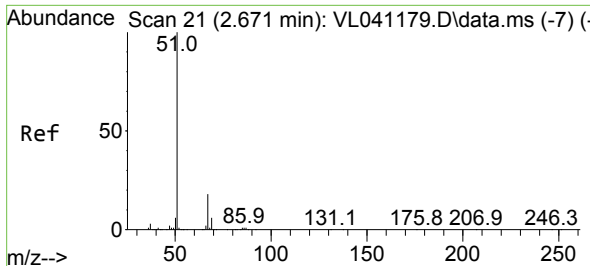
Tgt Ion: 49 Resp: 878348
 Ion Ratio Lower Upper
 49 100
 128 45.8 22.8 68.3
 130 58.0 28.4 85.3



#2
 Dichlorodifluoromethane
 Concen: 0.398 ppbv
 RT: 2.755 min Scan# 47
 Delta R.T. -0.003 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

Tgt Ion: 85 Resp: 55837
 Ion Ratio Lower Upper
 85 100
 87 27.8 26.5 39.7

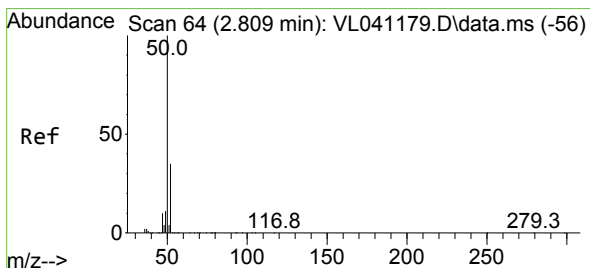
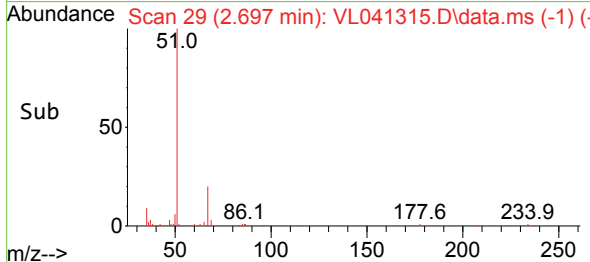
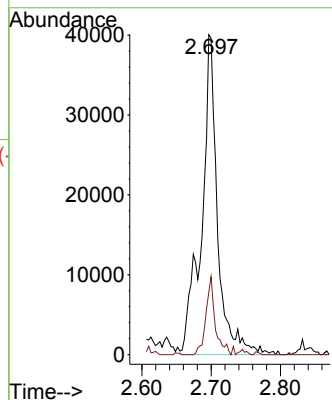
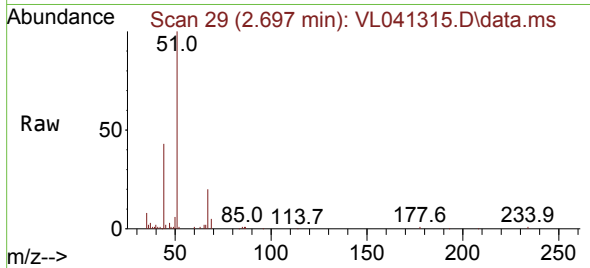




#3
Chlorodifluoromethane
Concen: 0.465 ppbv
RT: 2.697 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

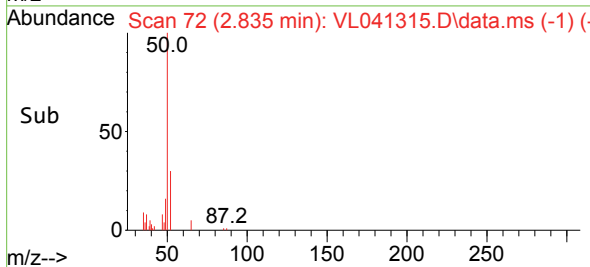
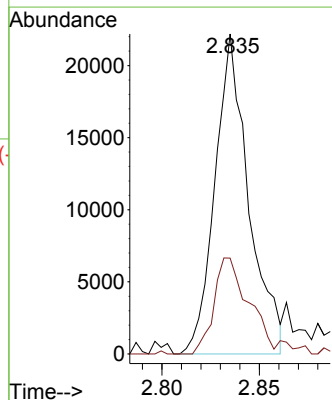
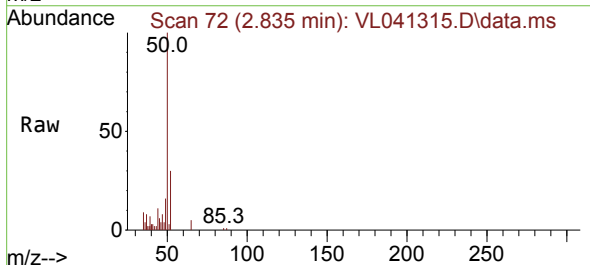
Instrument :
MSVOA_L
ClientSampleId :
OA1

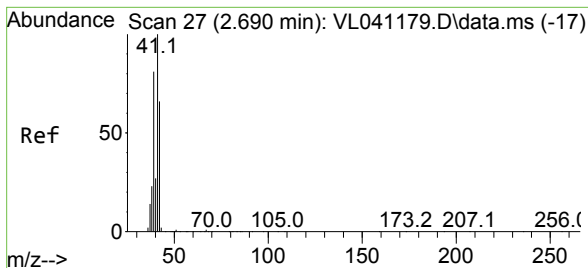
Tgt Ion: 51 Resp: 64534
Ion Ratio Lower Upper
51 100
67 15.4 14.7 22.1



#4
Chloromethane
Concen: 0.511 ppbv
RT: 2.835 min Scan# 72
Delta R.T. -0.003 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 50 Resp: 26710
Ion Ratio Lower Upper
50 100
52 29.9 25.6 38.4





#9

Propene

Concen: 1.930 ppbv

RT: 2.729 min Scan# 39

Delta R.T. 0.006 min

Lab File: VL041315.D

Acq: 4 Jun 2024 21:31

Instrument :

MSVOA_L

ClientSampleId :

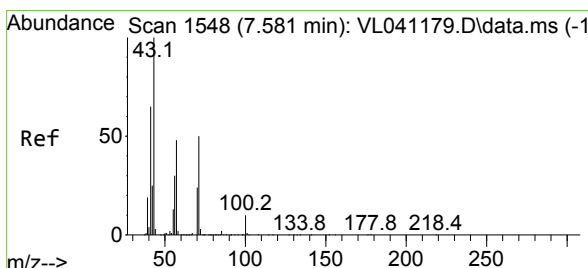
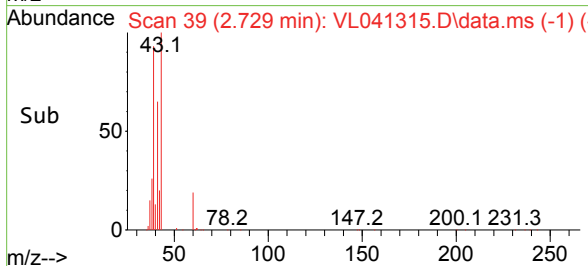
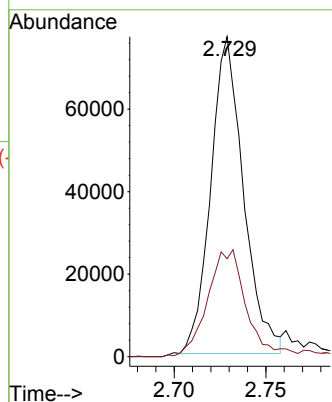
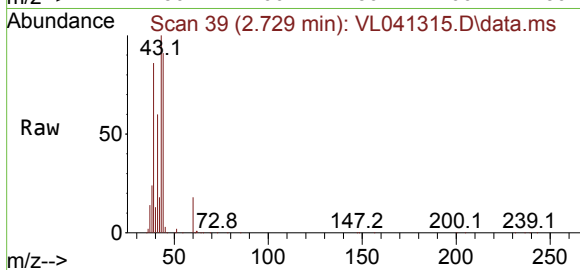
OA1

Tgt Ion: 41 Resp: 95399

Ion Ratio Lower Upper

41 100

42 41.5 55.2 82.8#



#10

Heptane

Concen: 0.044 ppbv

RT: 7.578 min Scan# 1547

Delta R.T. -0.003 min

Lab File: VL041315.D

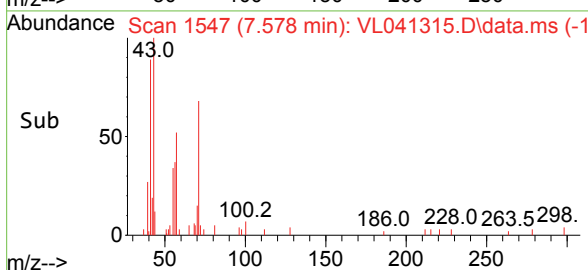
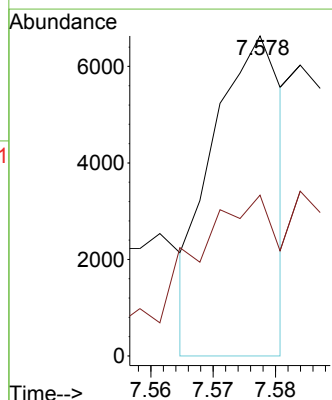
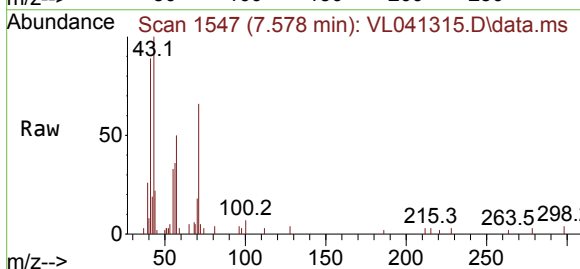
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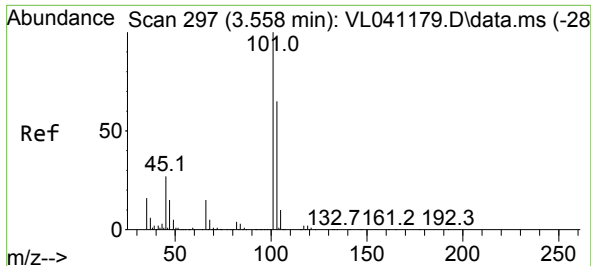
Tgt Ion: 43 Resp: 5117

Ion Ratio Lower Upper

43 100

57 0.0 39.0 58.4#

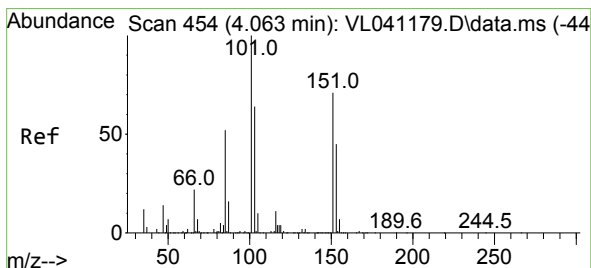
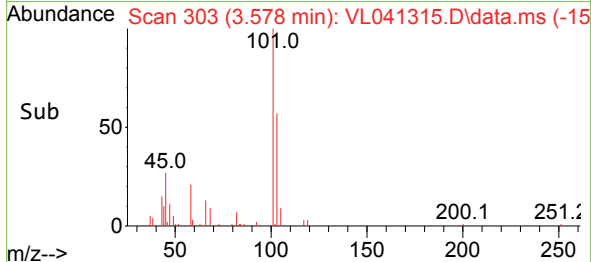
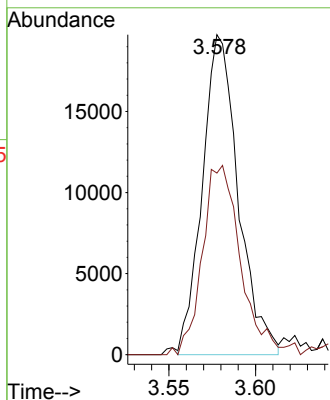
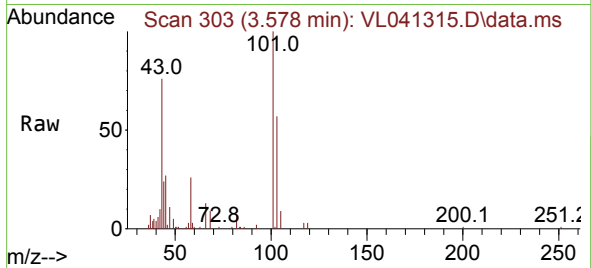




#11
 Trichlorofluoromethane
 Concen: 0.221 ppbv
 RT: 3.578 min Scan# 303
 Delta R.T. -0.006 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

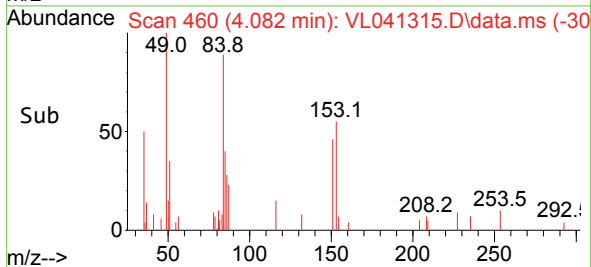
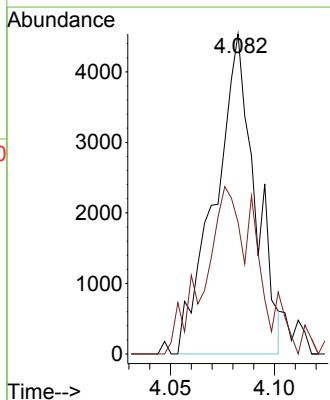
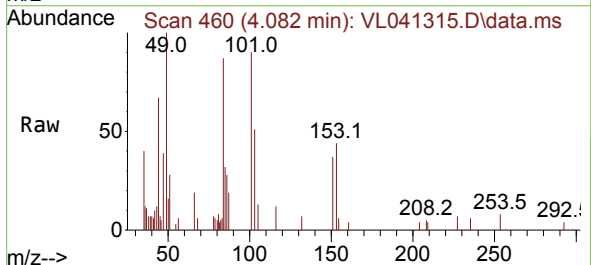
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

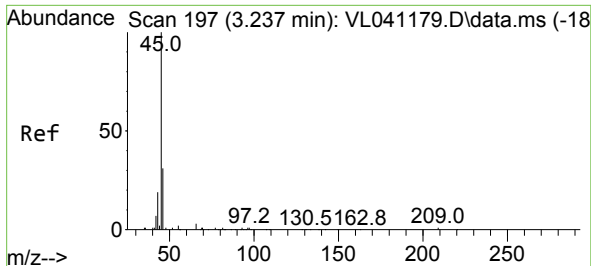
Tgt Ion:101 Resp: 28508
 Ion Ratio Lower Upper
 101 100
 103 57.5 50.6 76.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.067 ppbv
 RT: 4.082 min Scan# 460
 Delta R.T. -0.000 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

Tgt Ion:101 Resp: 6070
 Ion Ratio Lower Upper
 101 100
 151 71.4 54.8 82.2

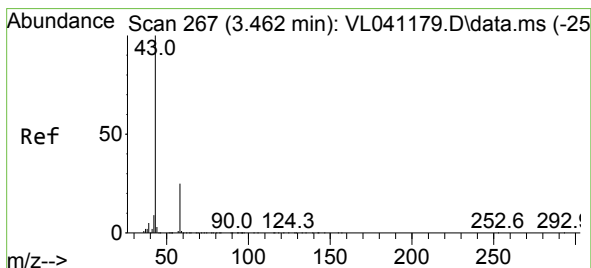
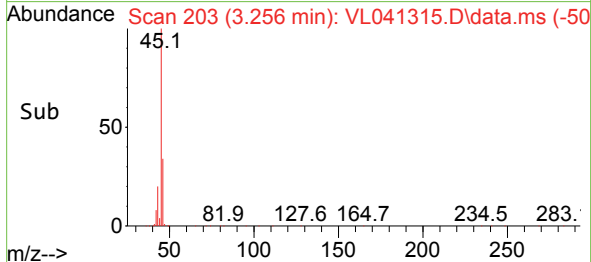
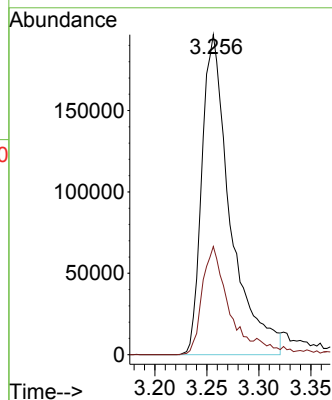
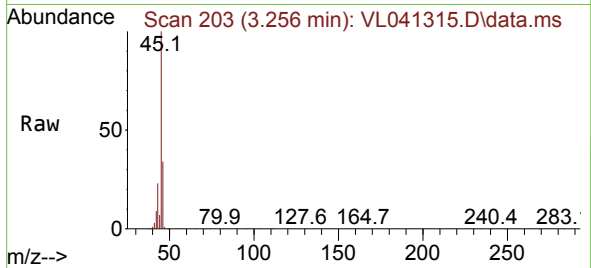




#13
Ethanol
Concen: 29.081 ppbv
RT: 3.256 min Scan# 203
Delta R.T. -0.006 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

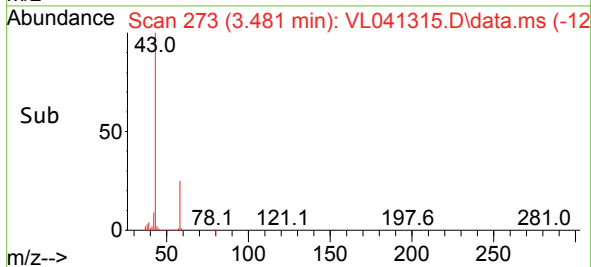
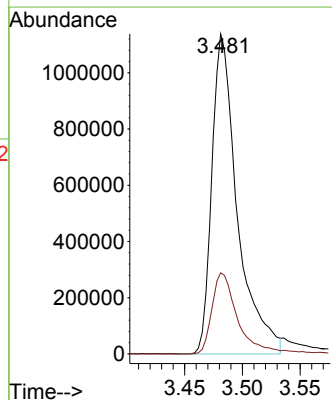
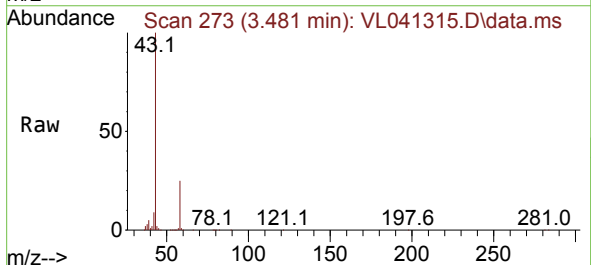
Instrument :
MSVOA_L
ClientSampleId :
OA1

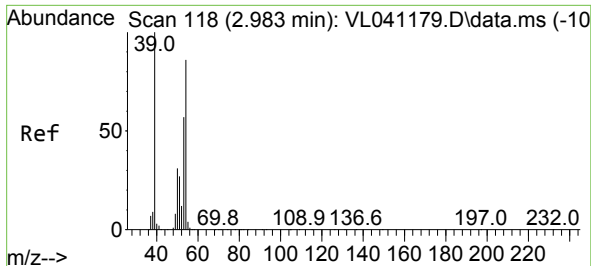
Tgt Ion: 45 Resp: 374059
Ion Ratio Lower Upper
45 100
46 36.1 14.2 56.6



#15
Acetone
Concen: 17.426 ppbv
RT: 3.481 min Scan# 273
Delta R.T. -0.006 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 43 Resp: 1747545
Ion Ratio Lower Upper
43 100
58 26.8 20.6 31.0

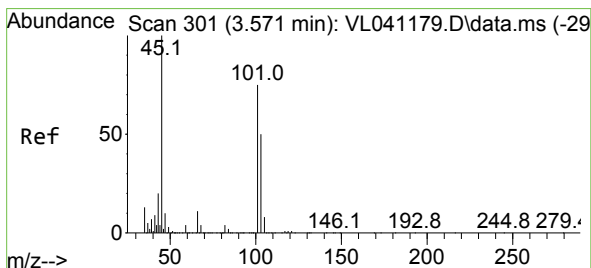
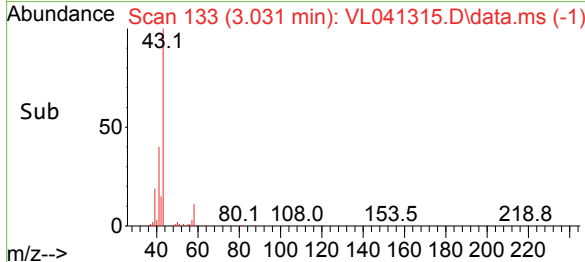
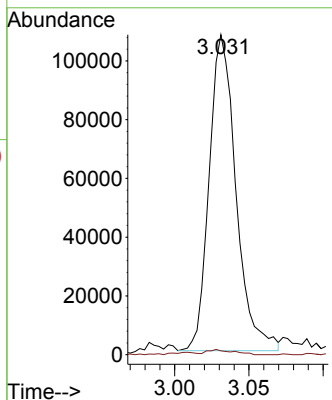
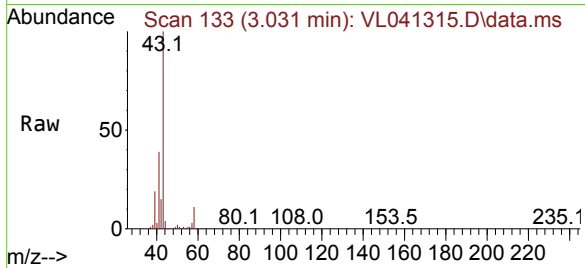




#16
1,3-Butadiene
Concen: 2.684 ppbv
RT: 3.031 min Scan# 118
Delta R.T. 0.022 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

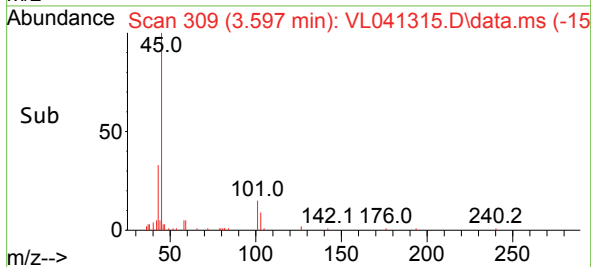
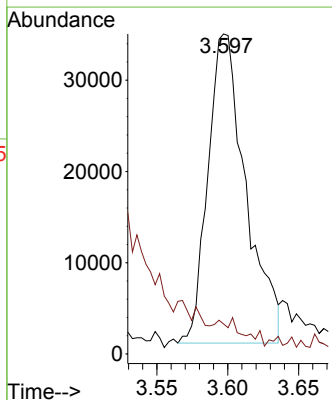
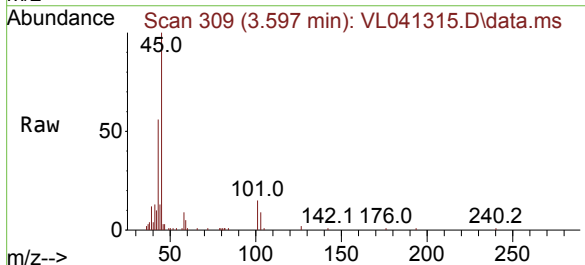
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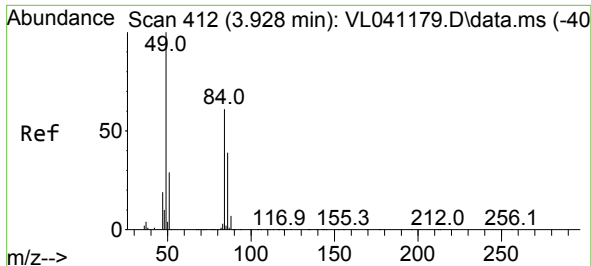
Tgt Ion: 39 Resp: 135296
Ion Ratio Lower Upper
39 100
54 2.3 60.5 90.7#



#19
Isopropyl Alcohol
Concen: 1.001 ppbv
RT: 3.597 min Scan# 309
Delta R.T. 0.003 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 45 Resp: 63076
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#

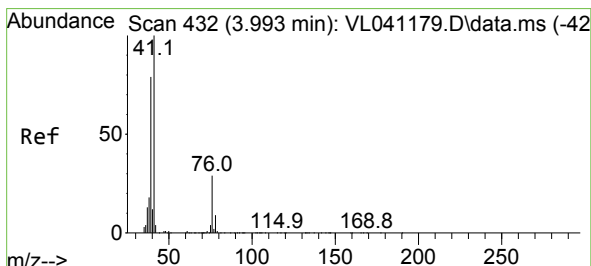
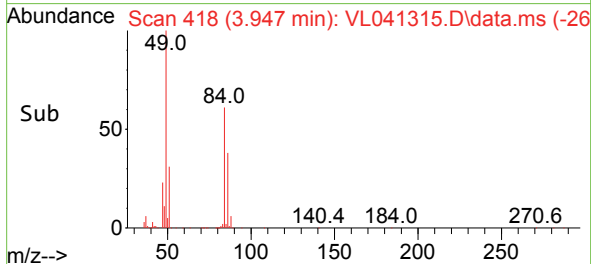
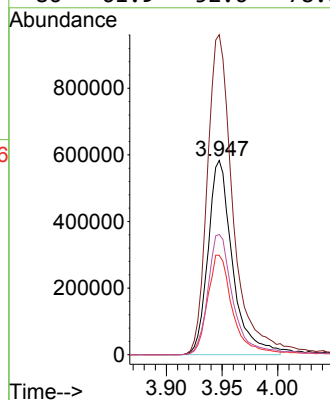
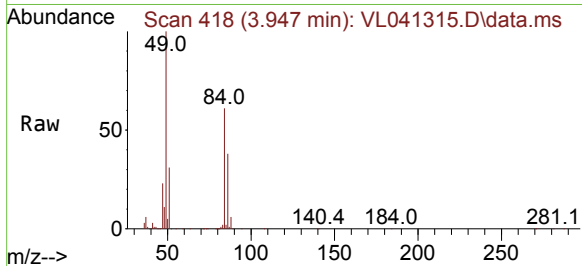




#20
Methylene Chloride
Concen: 24.511 ppbv
RT: 3.947 min Scan# 418
Delta R.T. -0.003 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

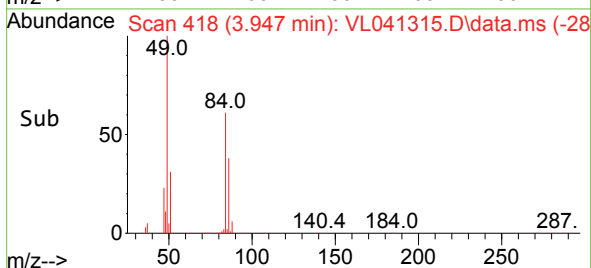
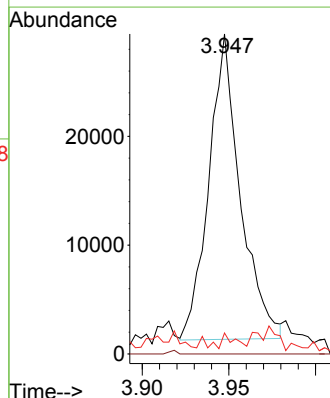
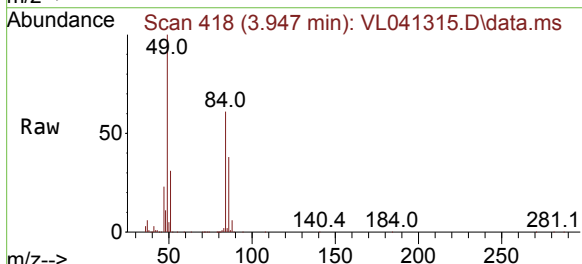
Instrument :
MSVOA_L
ClientSampleId :
OA1

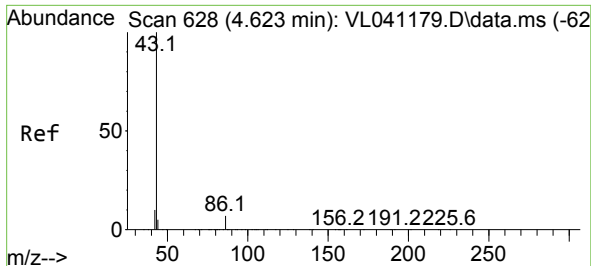
Tgt Ion: 84 Resp: 893437
Ion Ratio Lower Upper
84 100
49 164.7 136.2 204.2
51 51.1 41.9 62.9
86 61.9 52.6 78.8



#21
Allyl Chloride
Concen: 0.557 ppbv
RT: 3.947 min Scan# 418
Delta R.T. -0.064 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 41 Resp: 35403
Ion Ratio Lower Upper
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76 0.0 22.3 33.5#
39 14.3 66.3 99.5#

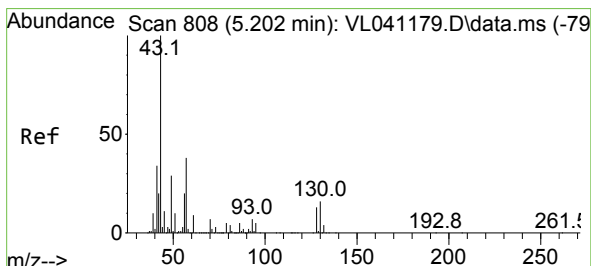
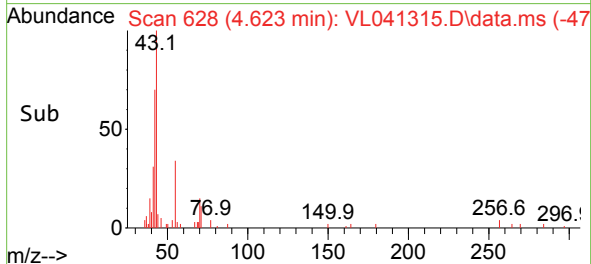
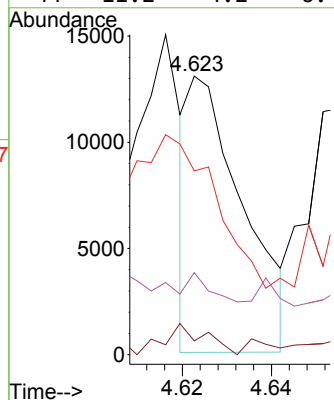
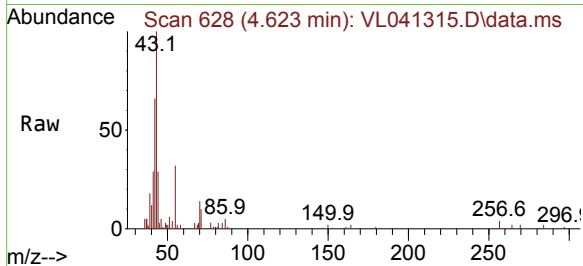




#23
 Vinyl Acetate
 Concen: 0.107 ppbv
 RT: 4.623 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

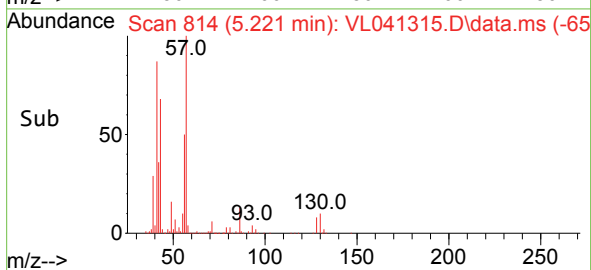
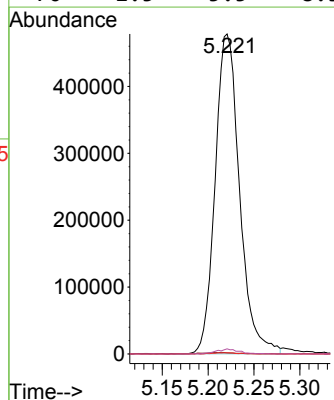
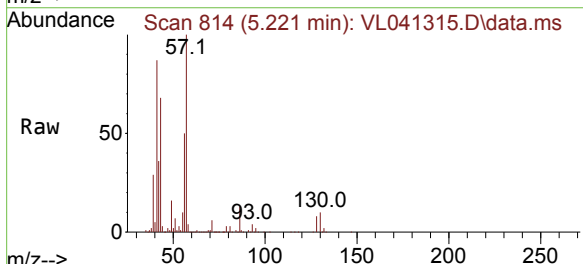
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

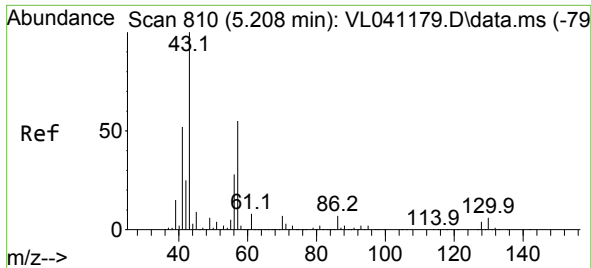
Tgt Ion:	43	Resp:	11012
Ion	Ratio	Lower	Upper
43	100		
86	3.7	4.7	7.1#
42	55.9	8.0	12.0#
44	11.2	4.2	6.4#



#25
 Ethyl Acetate
 Concen: 4.466 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.006 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

Tgt Ion:	43	Resp:	886047
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.1	12.1#
61	0.4	7.4	11.0#
70	1.5	5.5	8.3#

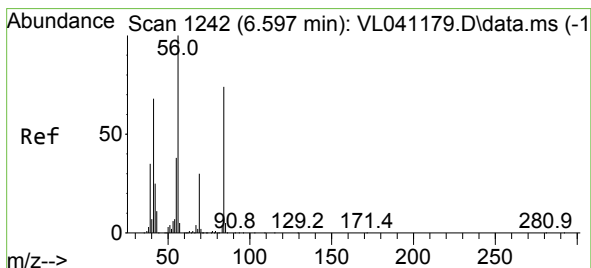
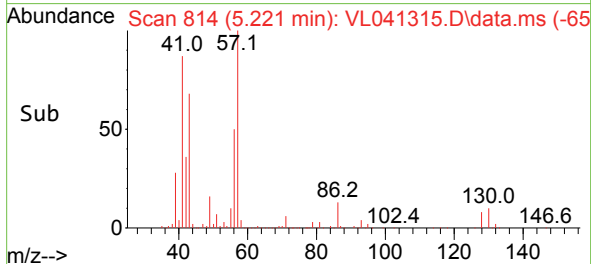
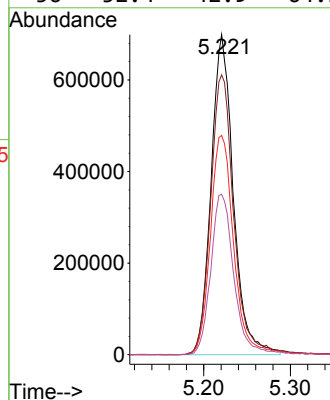
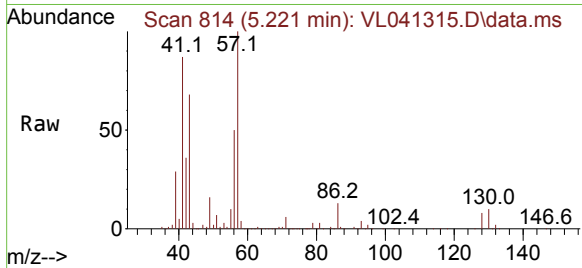




#26
Hexane
Concen: 13.958 ppbv
RT: 5.221 min Scan# 810
Delta R.T. -0.000 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

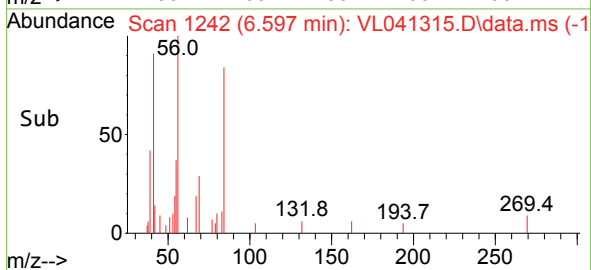
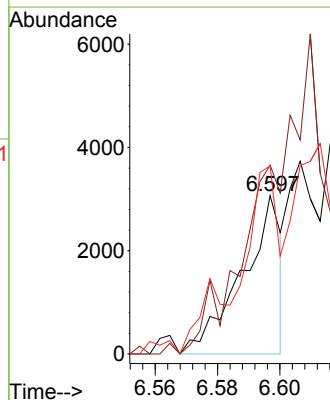
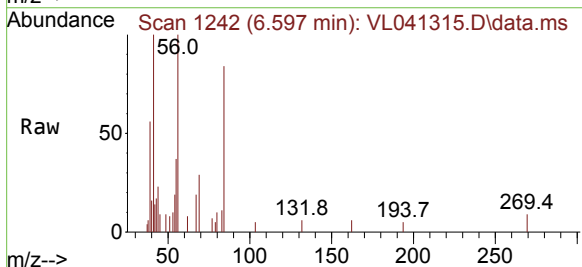
Instrument :
MSVOA_L
ClientSampleId :
OA1

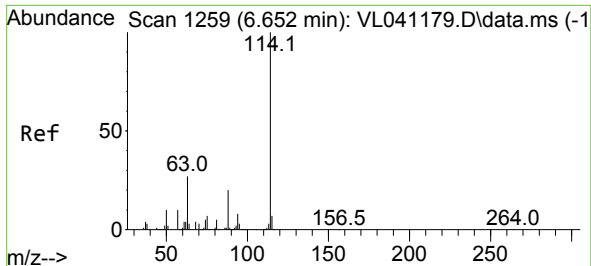
Tgt Ion: 57 Resp: 1245278
Ion Ratio Lower Upper
57 100
41 92.2 77.1 115.7
43 72.3 186.1 279.1#
56 52.4 42.9 64.3



#30
Cyclohexane
Concen: 0.037 ppbv
RT: 6.597 min Scan# 1242
Delta R.T. -0.013 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 84 Resp: 2652
Ion Ratio Lower Upper
84 100
56 0.0 114.9 172.3#
41 0.0 74.4 111.6#

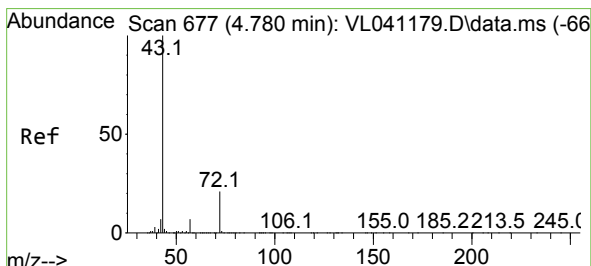
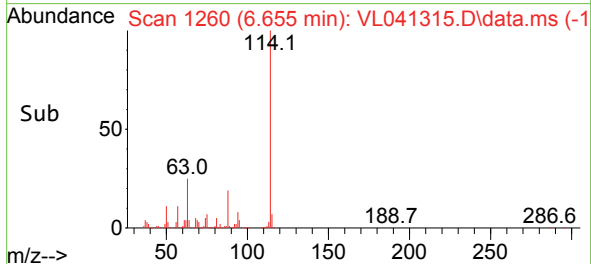
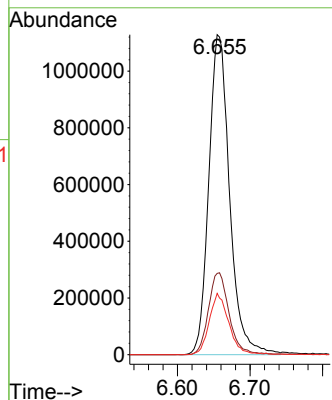
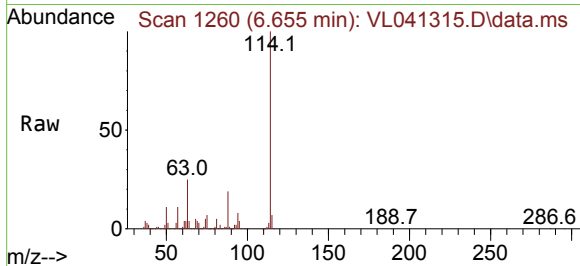




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.655 min Scan# 114
 Delta R.T. -0.003 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

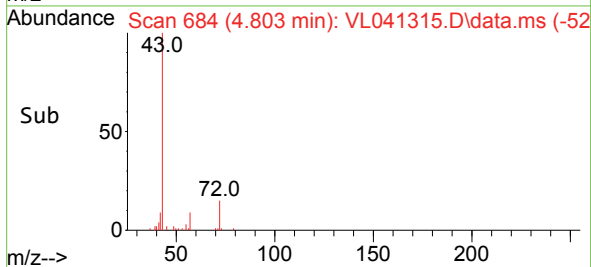
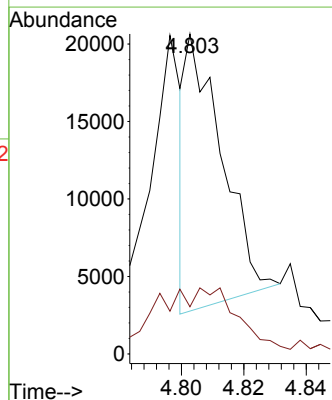
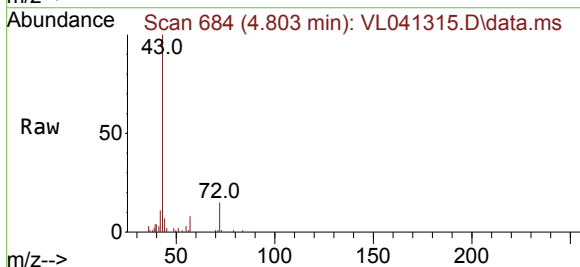
Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

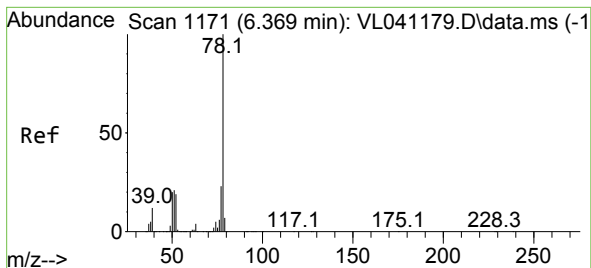
Tgt Ion:114 Resp: 2249448
 Ion Ratio Lower Upper
 114 100
 63 25.7 20.6 30.8
 88 18.3 14.5 21.7



#34
 2-Butanone
 Concen: 0.132 ppbv
 RT: 4.803 min Scan# 684
 Delta R.T. 0.006 min
 Lab File: VL041315.D
 Acq: 4 Jun 2024 21:31

Tgt Ion: 43 Resp: 14212
 Ion Ratio Lower Upper
 43 100
 72 63.2 17.4 26.0#





#36

Benzene

Concen: 0.075 ppbv

RT: 6.378 min Scan# 1174

Delta R.T. -0.000 min

Lab File: VL041315.D

Acq: 4 Jun 2024 21:31

Instrument :

MSVOA_L

ClientSampleId :

OA1

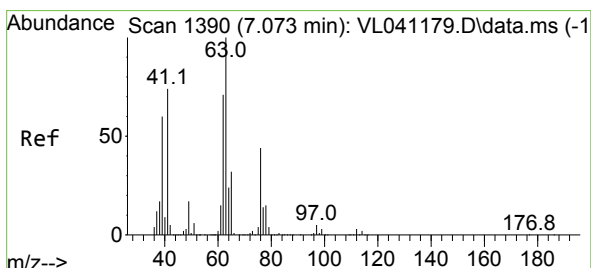
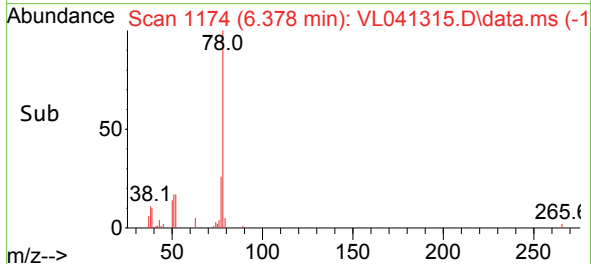
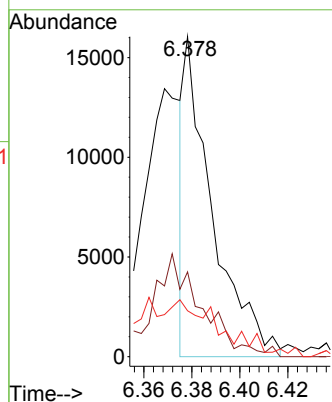
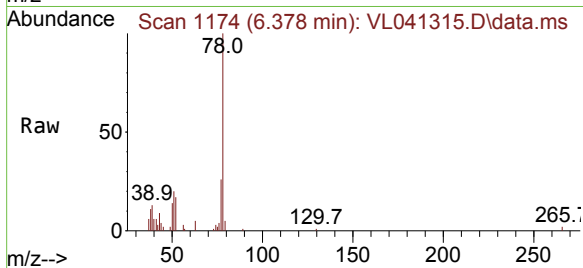
Tgt Ion: 78 Resp: 13022

Ion Ratio Lower Upper

78 100

77 24.7 18.6 28.0

50 12.2 16.0 24.0#



#39

1,2-Dichloropropane

Concen: 8.167 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.421 min

Lab File: VL041315.D

Acq: 4 Jun 2024 21:31

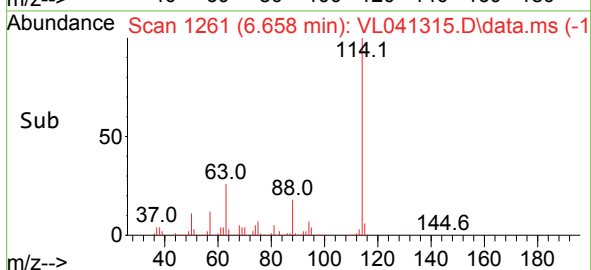
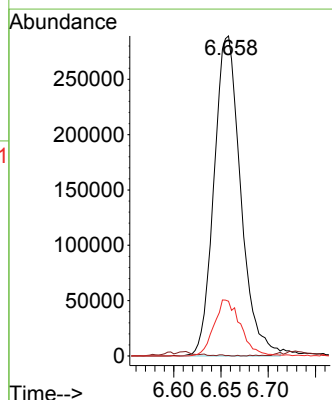
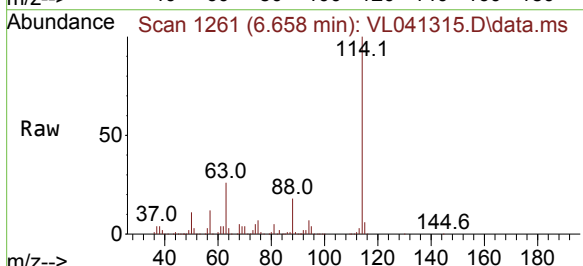
Tgt Ion: 63 Resp: 566990

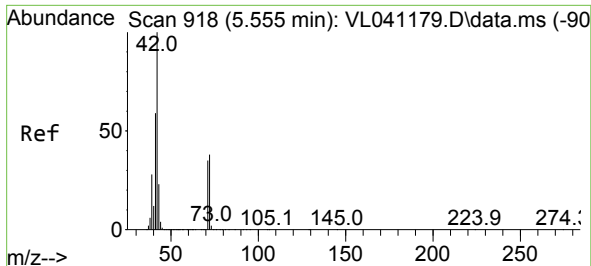
Ion Ratio Lower Upper

63 100

41 0.0 59.9 89.9#

62 17.1 53.8 80.6#





#41

Tetrahydrofuran

Concen: 6.672 ppbv

RT: 5.221 min Scan# 81

Delta R.T. -0.344 min

Lab File: VL041315.D

Acq: 4 Jun 2024 21:31

Instrument :

MSVOA_L

ClientSampleId :

OA1

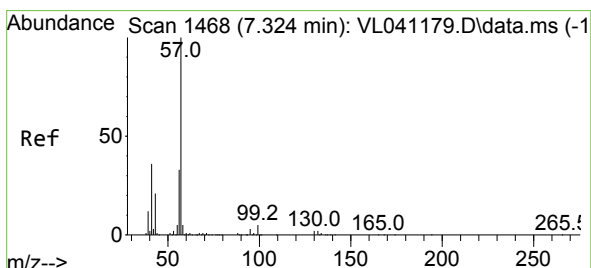
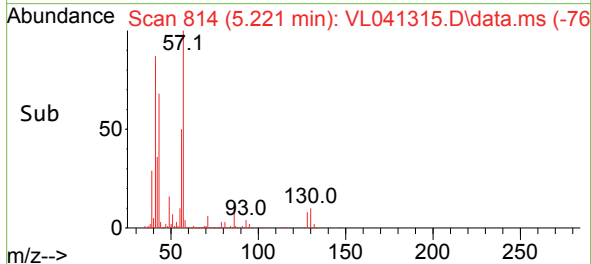
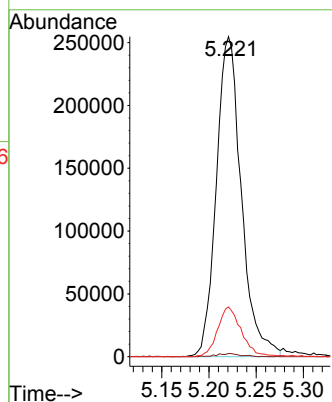
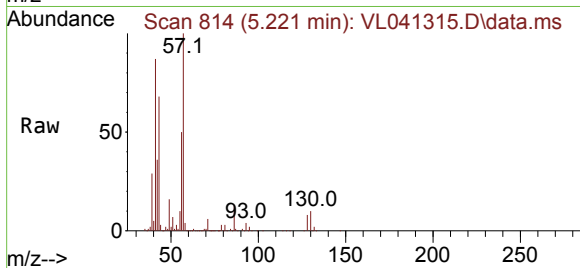
Tgt Ion: 42 Resp: 467794

Ion Ratio Lower Upper

42 100

72 1.0 30.2 45.4#

71 15.0 30.3 45.5#



#44

2,2,4-Trimethylpentane

Concen: 0.456 ppbv

RT: 7.330 min Scan# 1470

Delta R.T. -0.003 min

Lab File: VL041315.D

Acq: 4 Jun 2024 21:31

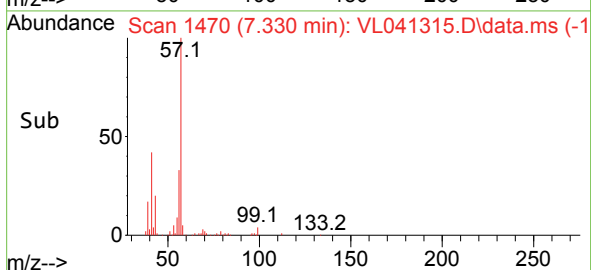
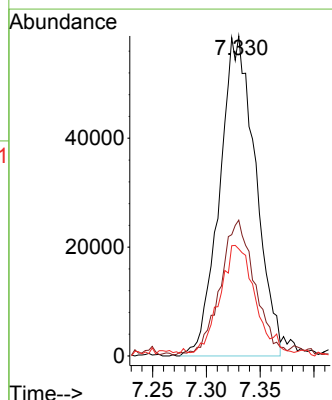
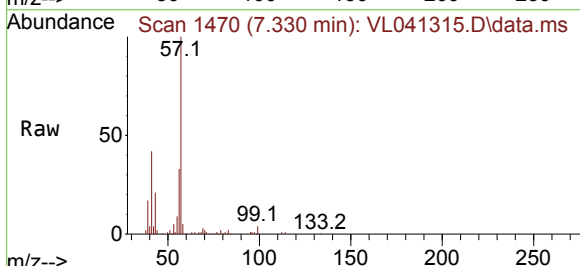
Tgt Ion: 57 Resp: 136879

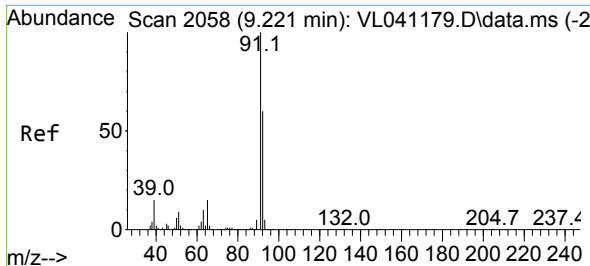
Ion Ratio Lower Upper

57 100

41 42.4 29.4 44.2

56 36.6 25.0 37.4

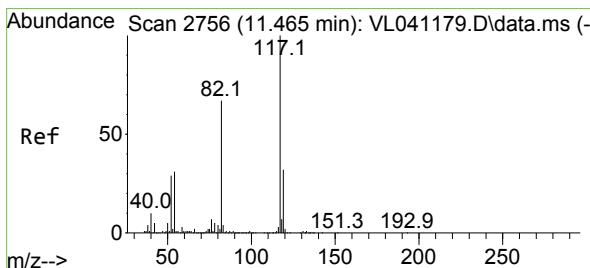
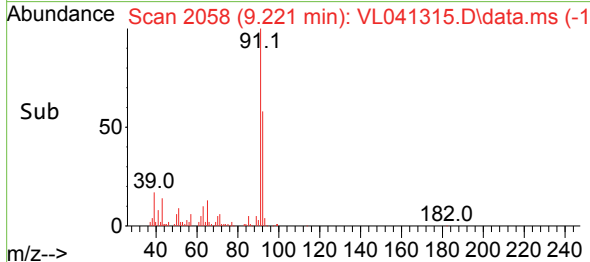
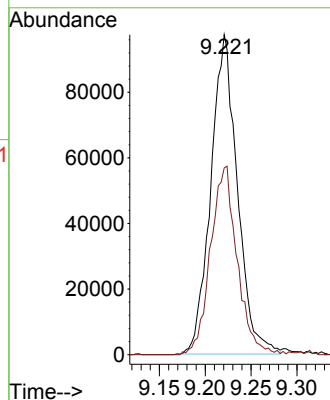
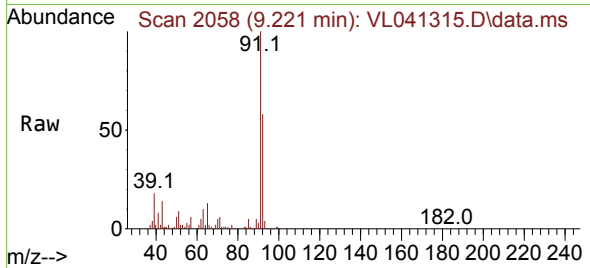




#53
Toluene
Concen: 0.979 ppbv
RT: 9.221 min Scan# 2058
Delta R.T. -0.000 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

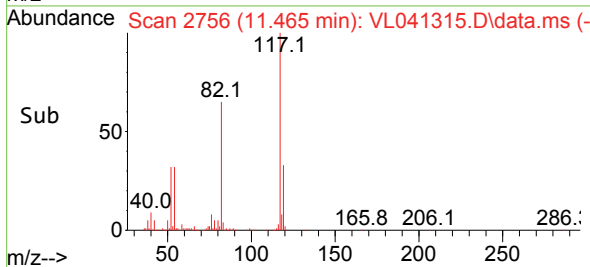
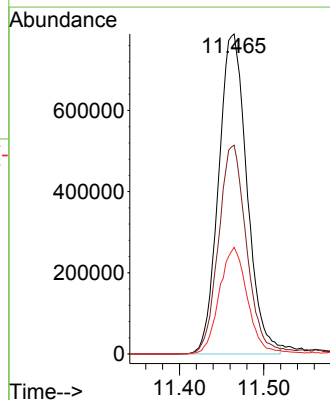
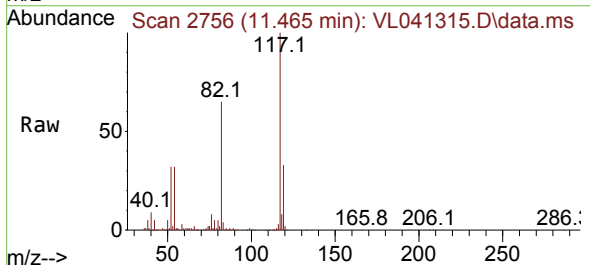
Instrument :
MSVOA_L
ClientSampleId :
OA1

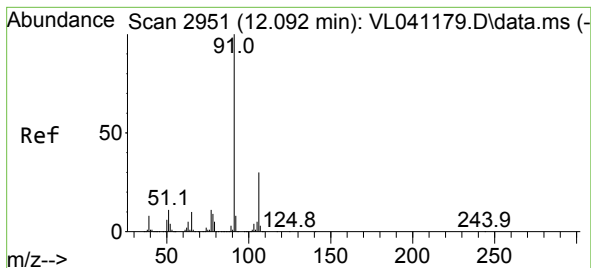
Tgt Ion: 91 Resp: 196439
Ion Ratio Lower Upper
91 100
92 59.2 49.2 73.8



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.003 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 117 Resp: 1840985
Ion Ratio Lower Upper
117 100
82 67.1 52.3 78.5
119 33.7 26.2 39.2





#58

Ethyl Benzene

Concen: 0.067 ppbv

RT: 12.076 min Scan# 2951

Delta R.T. -0.006 min

Lab File: VL041315.D

Acq: 4 Jun 2024 21:31

Instrument :

MSVOA_L

ClientSampleId :

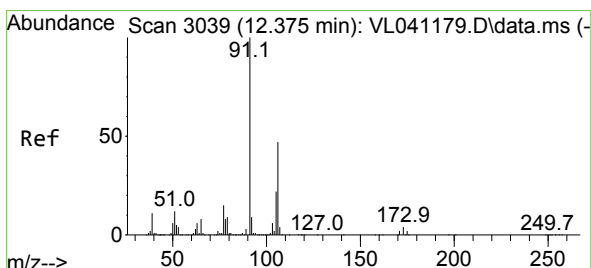
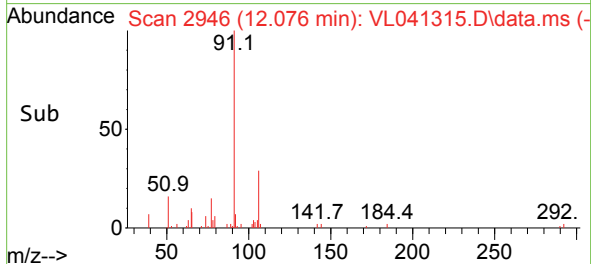
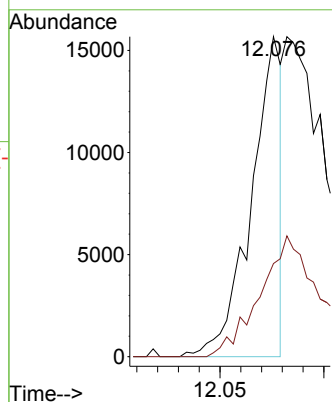
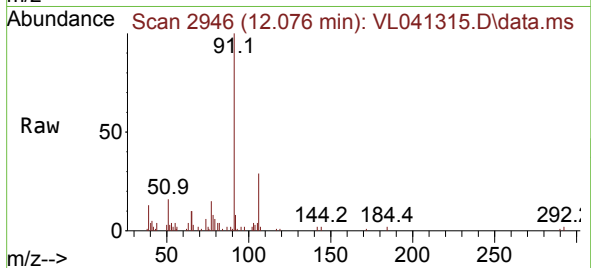
OA1

Tgt Ion: 91 Resp: 15814

Ion Ratio Lower Upper

91 100

106 29.1 25.5 38.3



#59

m/p-Xylene

Concen: 0.090 ppbv

RT: 12.375 min Scan# 3039

Delta R.T. 0.010 min

Lab File: VL041315.D

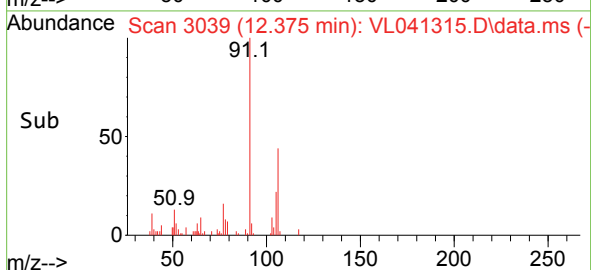
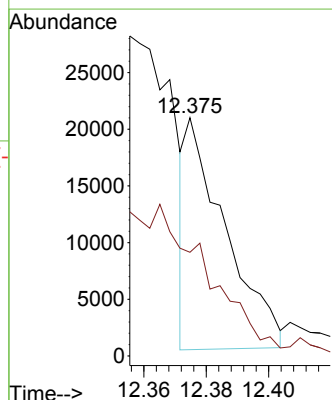
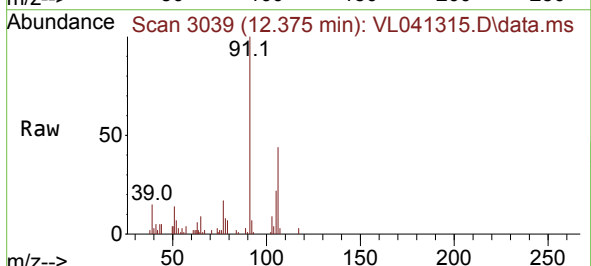
Acq: 4 Jun 2024 21:31

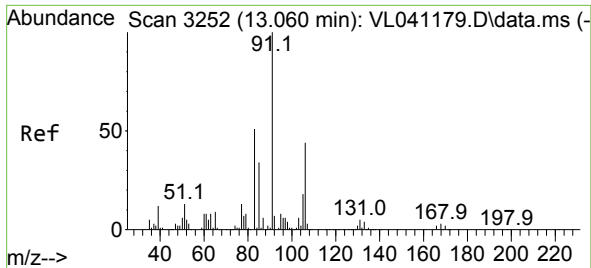
Tgt Ion: 91 Resp: 18111

Ion Ratio Lower Upper

91 100

106 0.0 35.7 53.5#

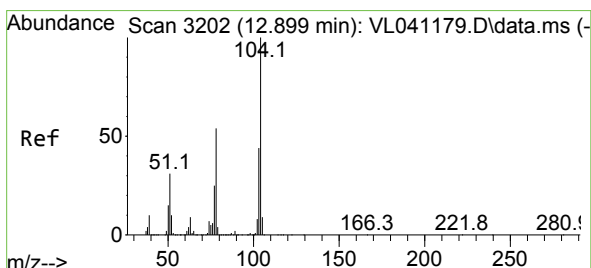
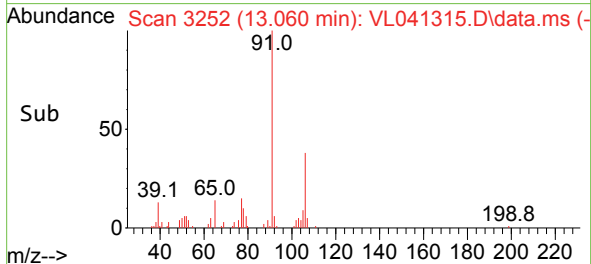
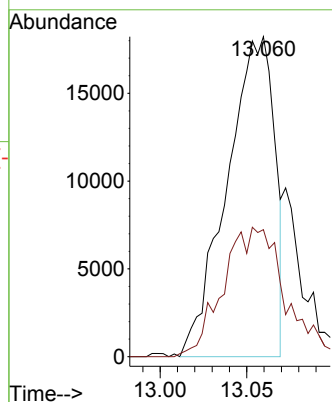
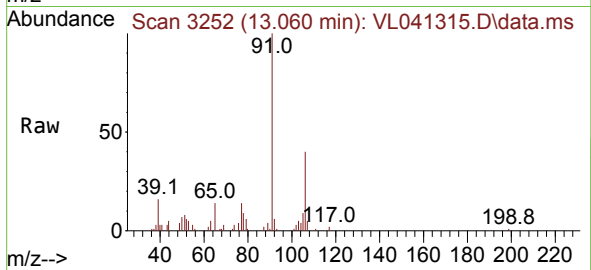




#60
o-Xylene
Concen: 0.182 ppbv
RT: 13.060 min Scan# 3199
Delta R.T. 0.006 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

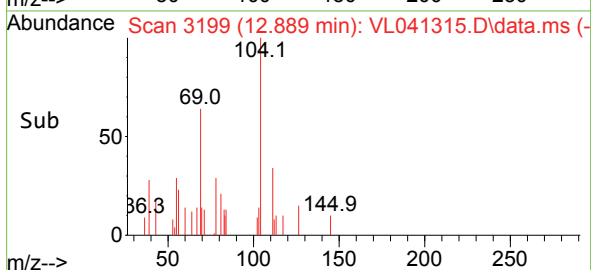
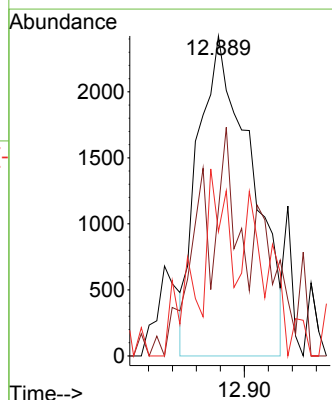
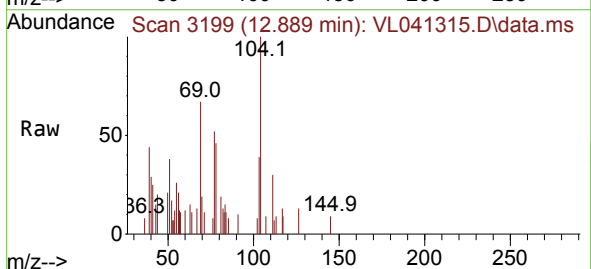
Instrument :
MSVOA_L
ClientSampleId :
OA1

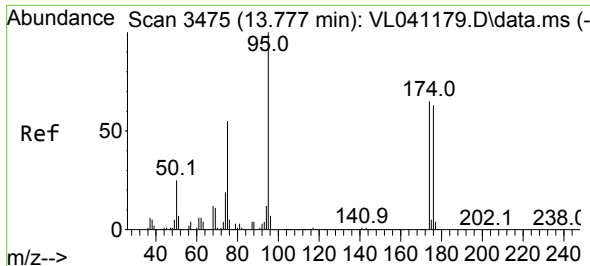
Tgt Ion: 91 Resp: 34984
Ion Ratio Lower Upper
91 100
106 52.5 22.8 68.4



#61
Styrene
Concen: 0.040 ppbv
RT: 12.889 min Scan# 3199
Delta R.T. -0.003 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 104 Resp: 3741
Ion Ratio Lower Upper
104 100
78 74.6 42.2 63.4#
103 63.2 37.9 56.9#

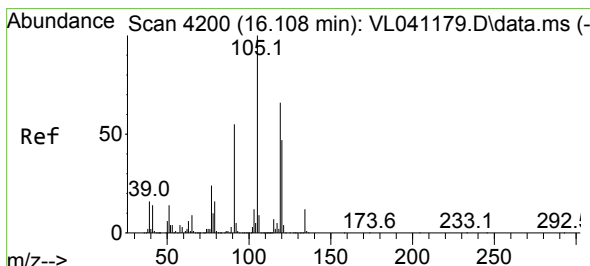
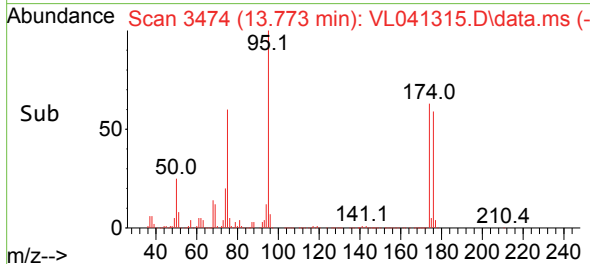
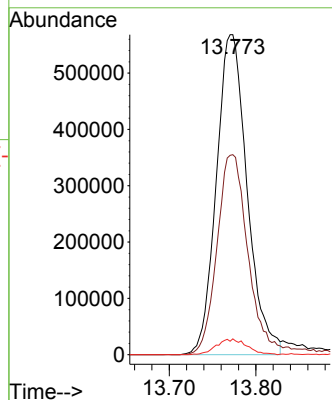
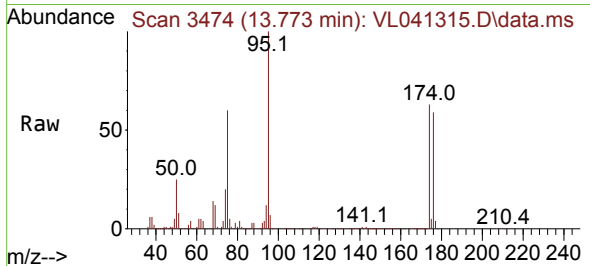




#68
1-Bromo-4-Fluorobenzene
Concen: 9.879 ppbv
RT: 13.773 min Scan# 3475
Delta R.T. 0.003 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 95 Resp: 1404209
Ion Ratio Lower Upper
95 100
174 65.9 52.2 78.2
175 4.9 4.1 6.1



#74
1,2,4-Trimethylbenzene
Concen: 0.035 ppbv
RT: 16.111 min Scan# 4201
Delta R.T. 0.006 min
Lab File: VL041315.D
Acq: 4 Jun 2024 21:31

Tgt Ion: 105 Resp: 7662
Ion Ratio Lower Upper
105 100
120 48.8 37.0 55.6
91 11.8 36.2 54.4#
77 16.4 16.6 24.8#

