

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020623\
 Data File : VL040150.D
 Acq On : 6 Feb 2023 17:44
 Operator : SY/MD
 Sample : 01438-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

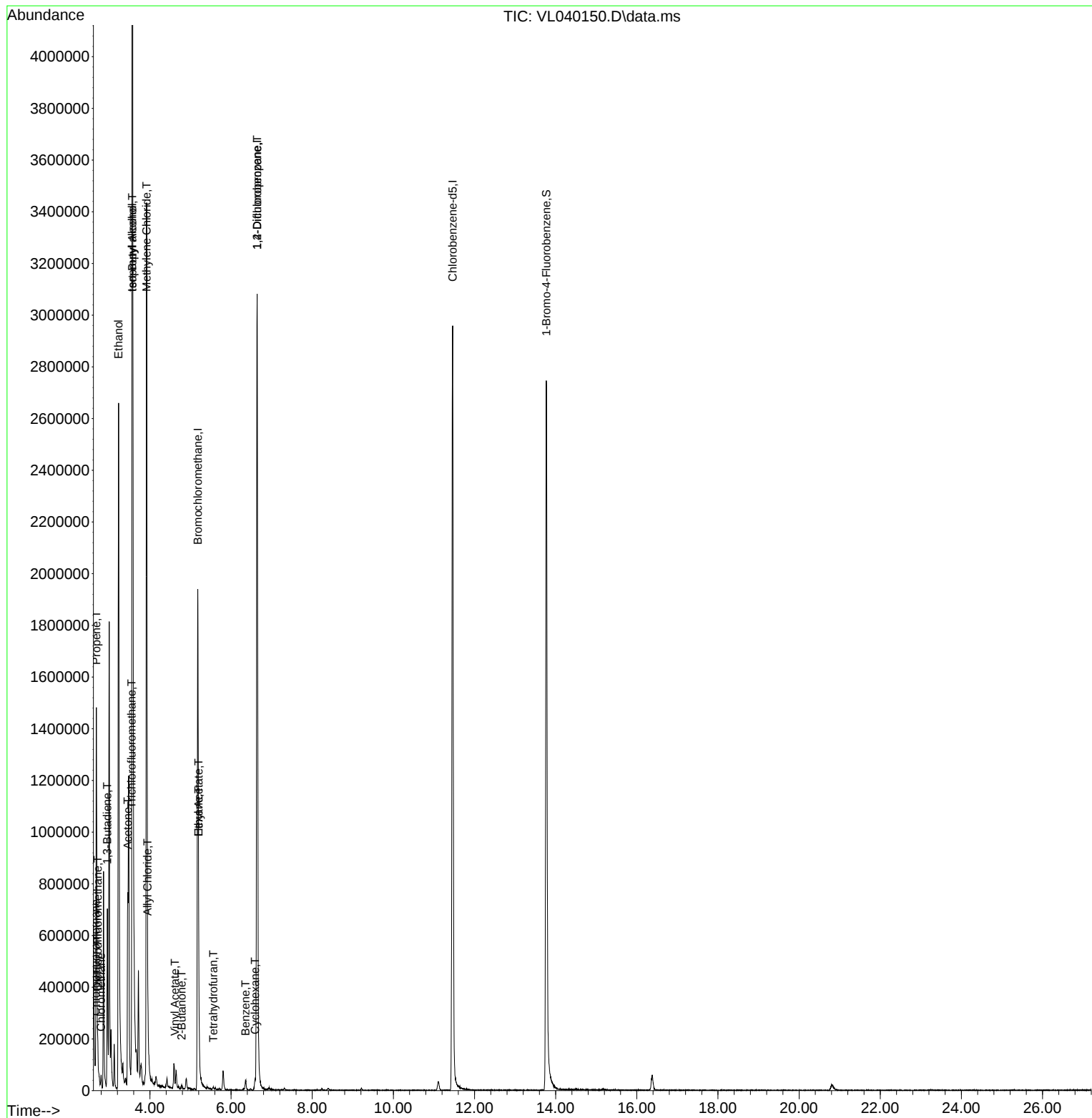
Quant Time: Feb 07 05:57:31 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 31 05:24:57 2023
 Response via : Initial Calibration

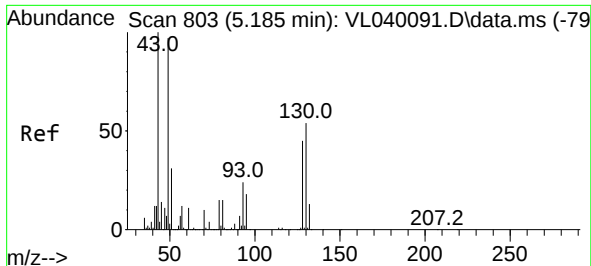
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.179	49	900343	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.642	114	2416292	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.462	117	2012833	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.770	95	1449720	8.666	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	86.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.713	85	59234	0.375	ppbv	90
3) Chlorodifluoromethane	2.658	51	56579	0.524	ppbv #	87
4) Chloromethane	2.796	50	35809	0.537	ppbv	91
9) Propene	2.677	41	621660	13.855	ppbv	94
11) Trichlorofluoromethane	3.549	101	87895	0.558	ppbv	91
13) Ethanol	3.227	45	2819608	682.768	ppbv	99
15) Acetone	3.452	43	723977	6.705	ppbv	96
16) 1,3-Butadiene	2.951	39	181291	3.601	ppbv #	25
17) tert-Butyl alcohol	3.568	59	263034	2.616	ppbv	100
19) Isopropyl Alcohol	3.568	45	6633795	125.565	ppbv #	93
20) Methylene Chloride	3.918	84	1187249	24.922	ppbv	96
21) Allyl Chloride	3.944	41	7024	0.101	ppbv #	1
23) Vinyl Acetate	4.613	43	2372	0.068	ppbv #	13
25) Ethyl Acetate	5.198	43	75950	0.399	ppbv #	78
26) Hexane	5.198	57	106359	1.278	ppbv #	38
30) Cyclohexane	6.594	84	6406	0.097	ppbv #	4
34) 2-Butanone	4.780	43	14299	0.125	ppbv	92
36) Benzene	6.356	78	18915	0.106	ppbv	97
39) 1,2-Dichloropropane	6.642	63	584753	8.361	ppbv #	22
41) Tetrahydrofuran	5.561	42	3539	0.054	ppbv #	87

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

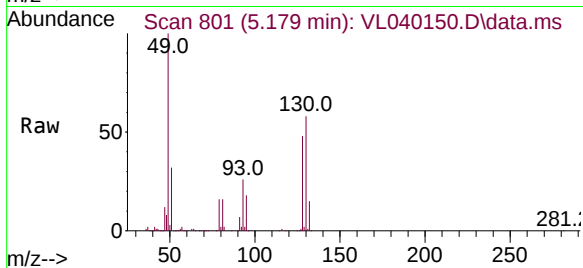
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Jan 31 05:24:57 2023
Response via : Initial Calibration



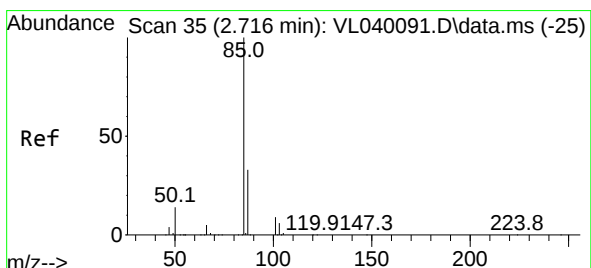
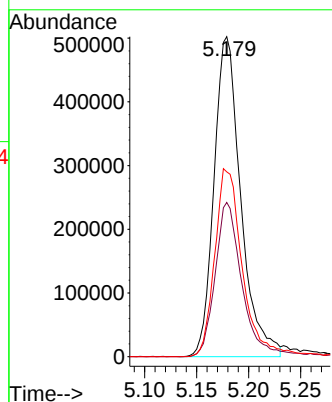
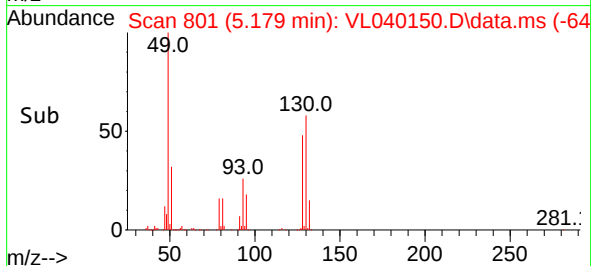


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL040150.D
 Acq: 6 Feb 2023 17:44

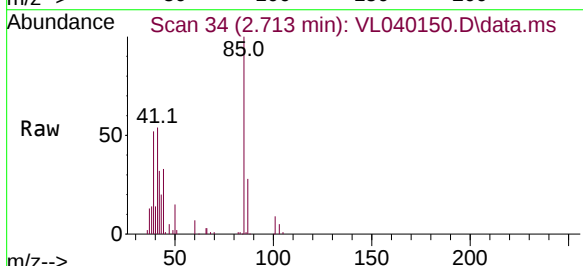
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 ClientSampleId :



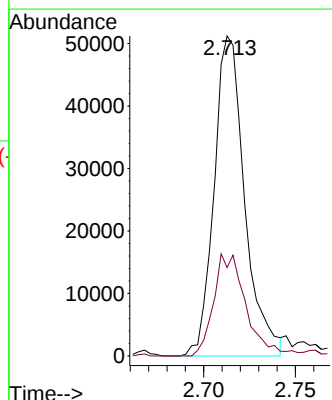
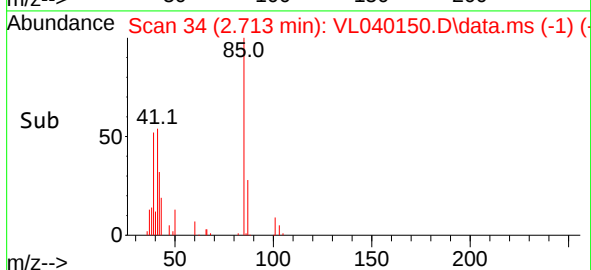
Tgt Ion: 49 Resp: 900343
 Ion Ratio Lower Upper
 49 100
 128 49.3 23.6 71.0
 130 62.0 29.8 89.3

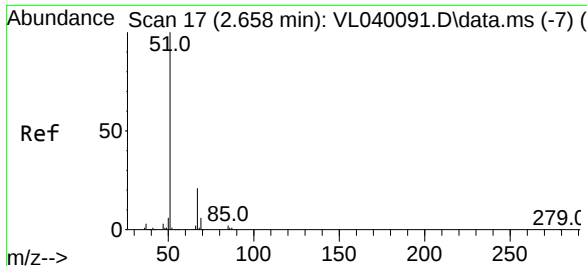


#2
 Dichlorodifluoromethane
 Concen: 0.375 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. 0.000 min
 Lab File: VL040150.D
 Acq: 6 Feb 2023 17:44



Tgt Ion: 85 Resp: 59234
 Ion Ratio Lower Upper
 85 100
 87 27.7 26.5 39.7

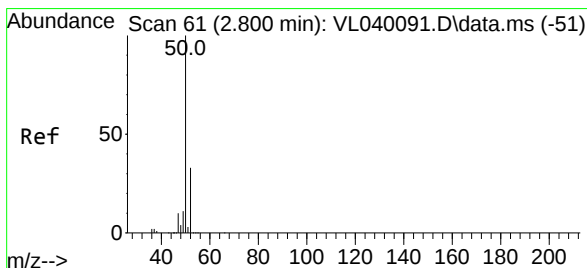
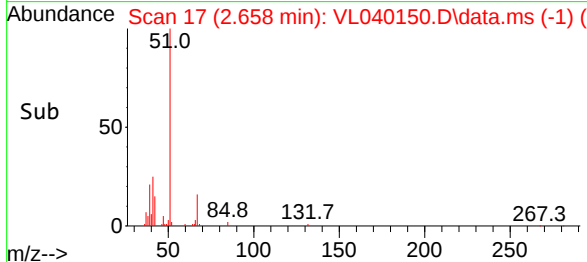
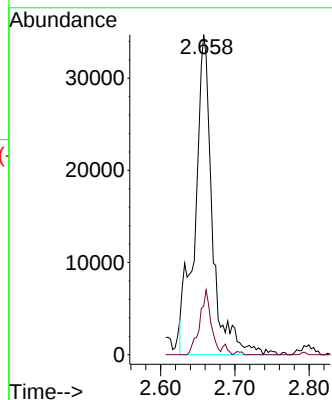
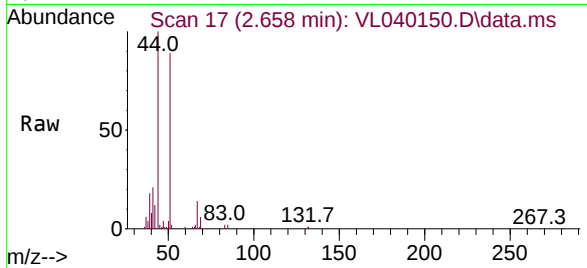




#3
Chlorodifluoromethane
Concen: 0.524 ppbv
RT: 2.658 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

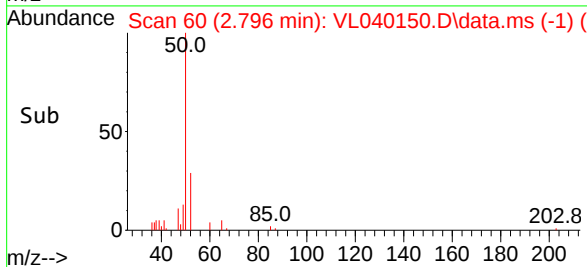
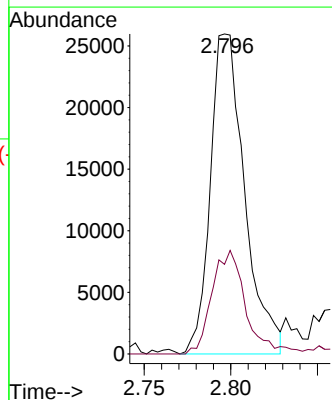
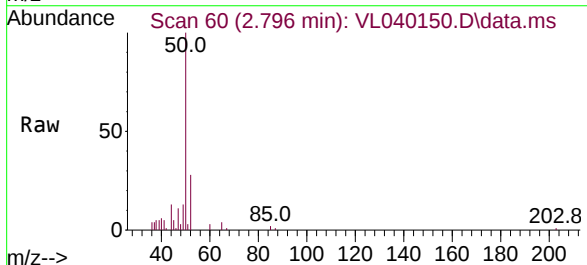
Instrument :
MSVOA_L
ClientSampleId :

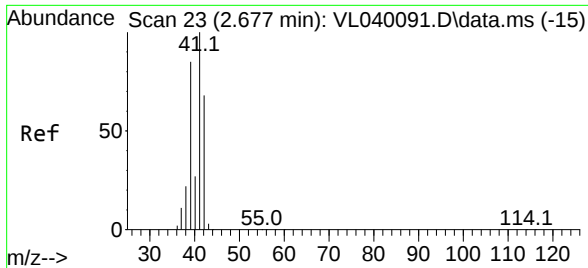
Tgt Ion: 51 Resp: 56579
Ion Ratio Lower Upper
51 100
67 14.5 16.4 24.6#



#4
Chloromethane
Concen: 0.537 ppbv
RT: 2.796 min Scan# 60
Delta R.T. 0.003 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Tgt Ion: 50 Resp: 35809
Ion Ratio Lower Upper
50 100
52 28.0 26.5 39.7

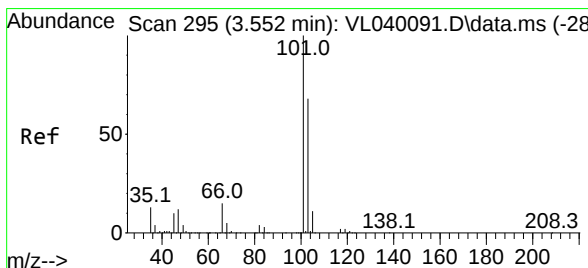
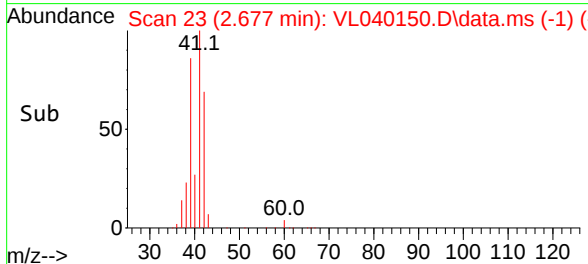
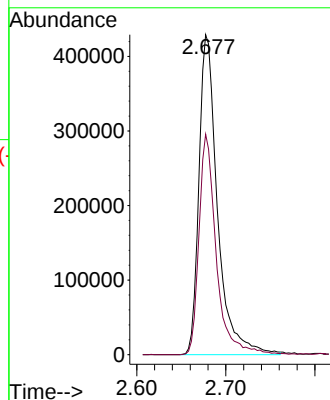
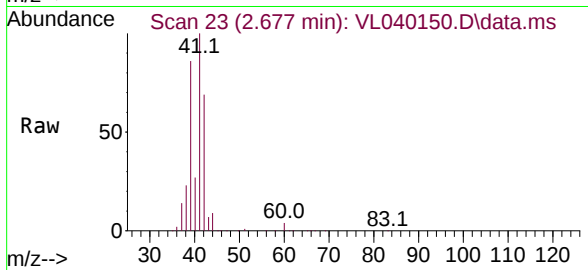




#9
 Propene
 Concen: 13.855 ppbv
 RT: 2.677 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: VL040150.D
 Acq: 6 Feb 2023 17:44

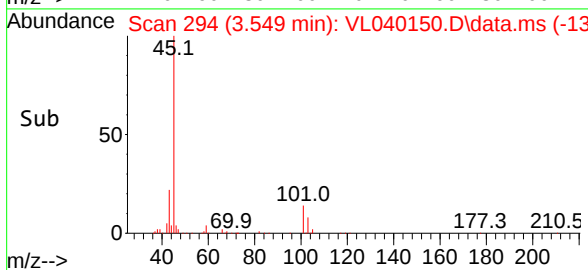
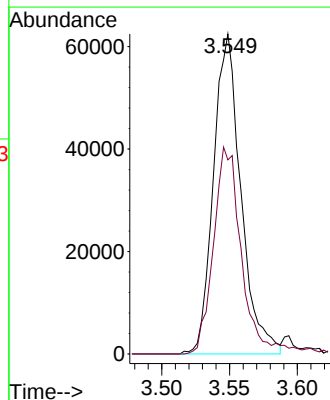
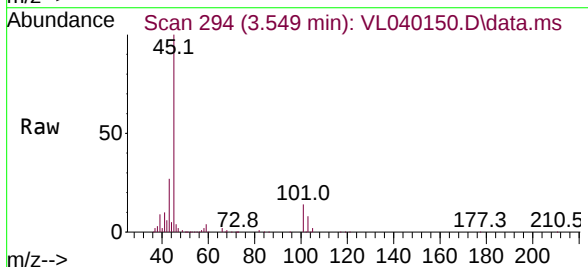
Instrument :
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 ClientSampleId :

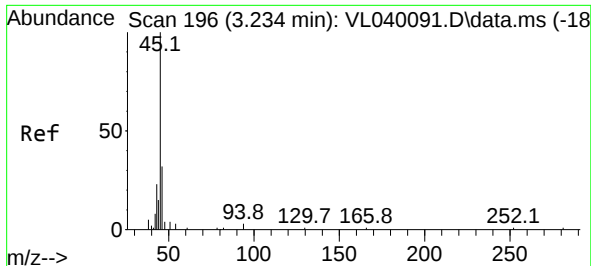
Tgt Ion: 41 Resp: 621660
 Ion Ratio Lower Upper
 41 100
 42 64.3 55.6 83.4



#11
 Trichlorofluoromethane
 Concen: 0.558 ppbv
 RT: 3.549 min Scan# 294
 Delta R.T. 0.003 min
 Lab File: VL040150.D
 Acq: 6 Feb 2023 17:44

Tgt Ion: 101 Resp: 87895
 Ion Ratio Lower Upper
 101 100
 103 60.6 54.0 81.0

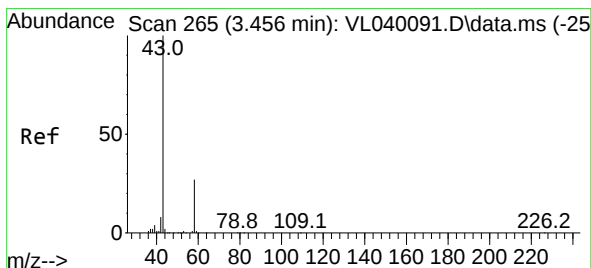
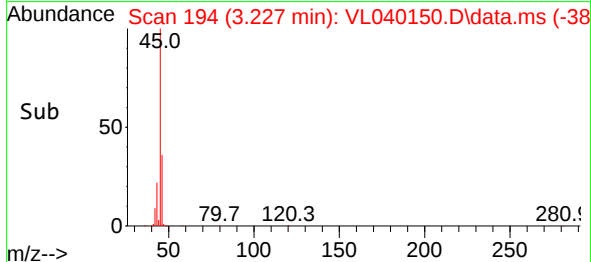
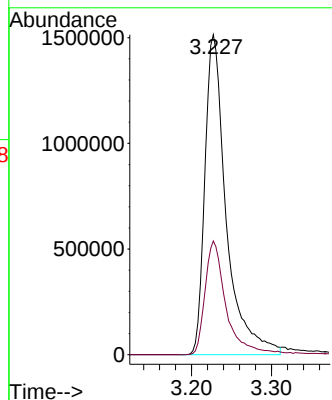
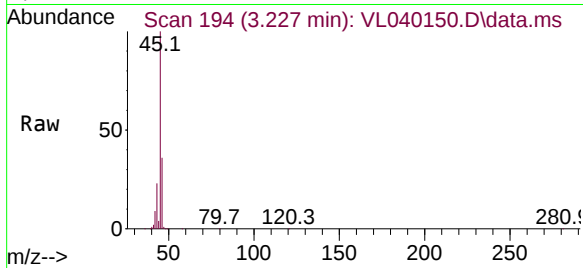




#13
Ethanol
Concen: 682.768 ppbv
RT: 3.227 min Scan# 19
Delta R.T. 0.000 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

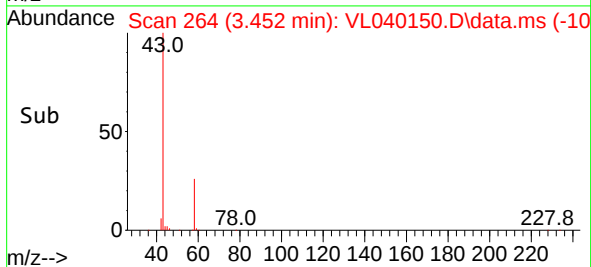
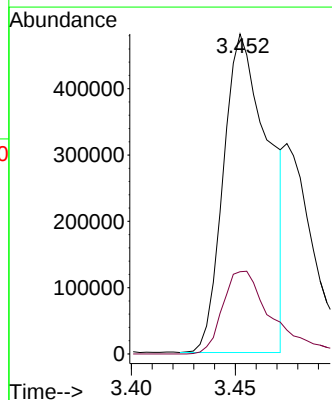
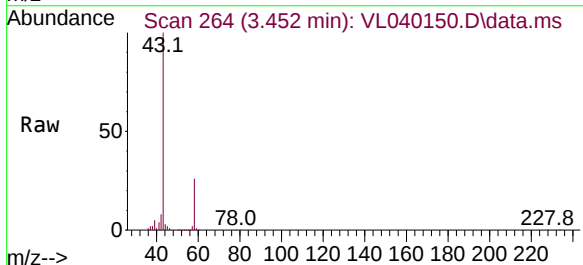
Instrument :
MSVOA_L
ClientSampleId :

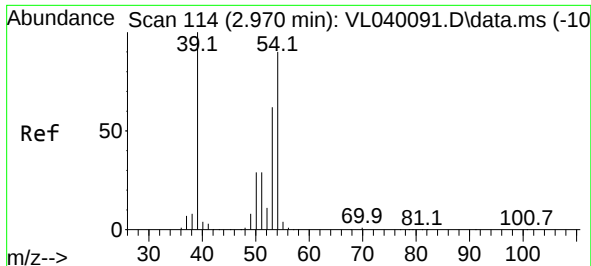
Tgt Ion: 45 Resp: 2819608
Ion Ratio Lower Upper
45 100
46 36.4 14.8 59.2



#15
Acetone
Concen: 6.705 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.003 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Tgt Ion: 43 Resp: 723977
Ion Ratio Lower Upper
43 100
58 29.5 21.8 32.8

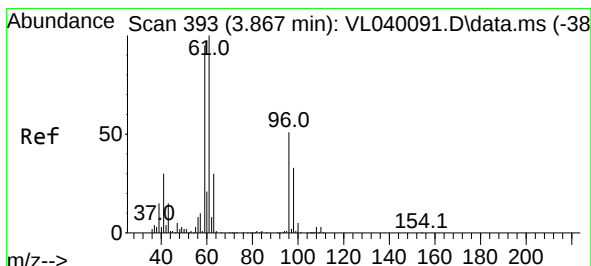
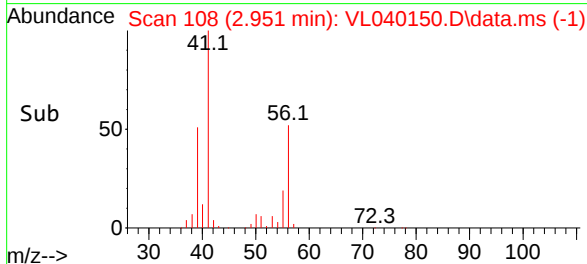
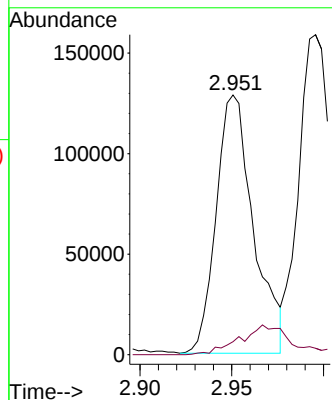
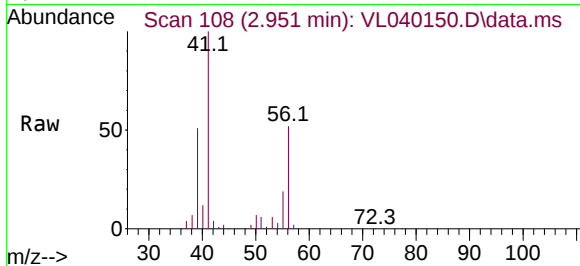




#16
1,3-Butadiene
Concen: 3.601 ppbv
RT: 2.951 min Scan# 108
Delta R.T. -0.016 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

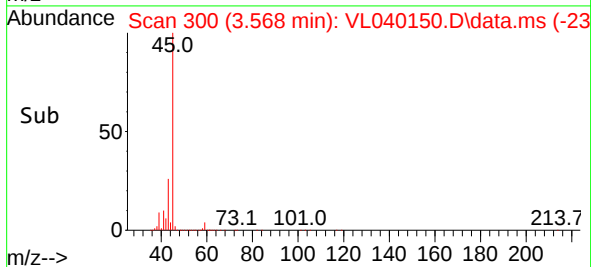
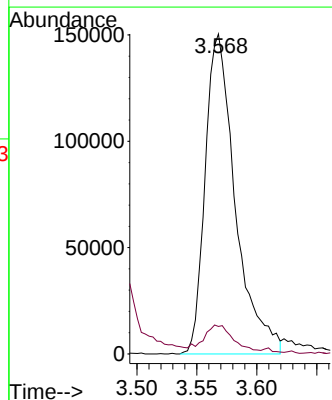
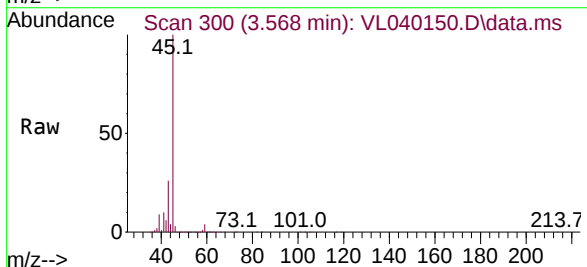
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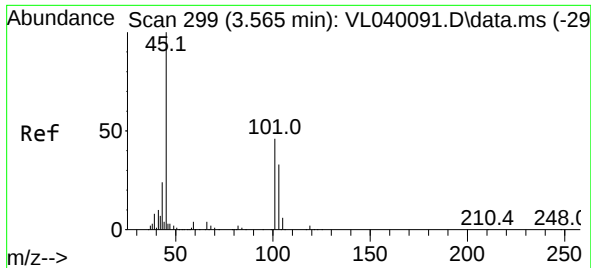
Tgt Ion: 39 Resp: 181291
Ion Ratio Lower Upper
39 100
54 16.2 67.9 101.9#



#17
tert-Butyl alcohol
Concen: 2.616 ppbv
RT: 3.568 min Scan# 300
Delta R.T. -0.293 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Tgt Ion: 59 Resp: 263034
Ion Ratio Lower Upper
59 100
57 10.6 8.5 12.7

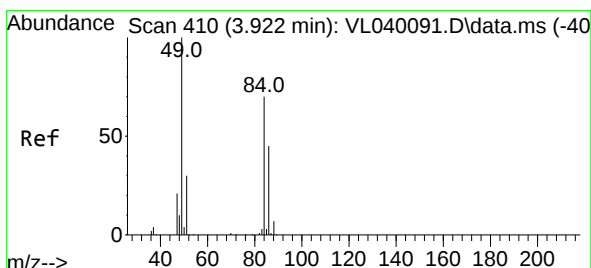
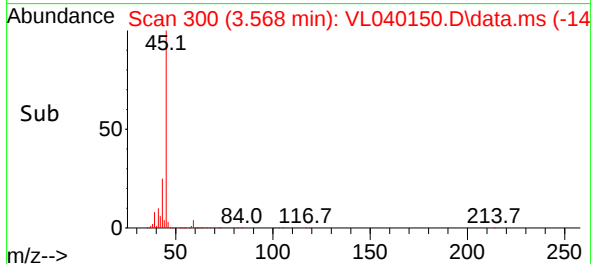
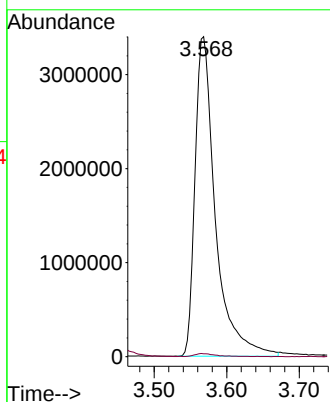
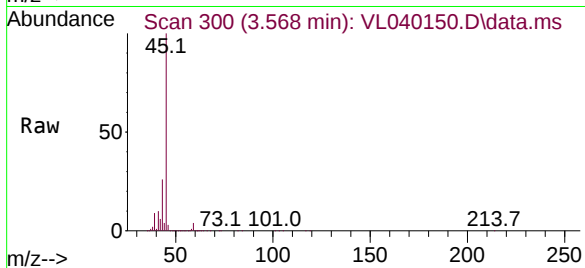




#19
Isopropyl Alcohol
Concen: 125.565 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.010 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

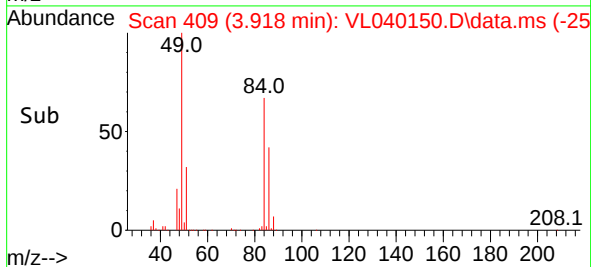
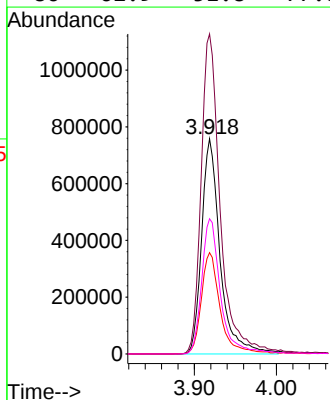
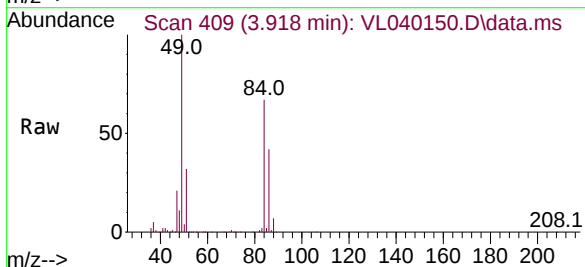
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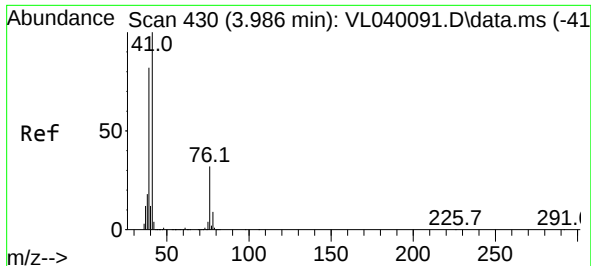
Tgt Ion: 45 Resp: 6633795
Ion Ratio Lower Upper
45 100
58 1.0 2.6 4.0#



#20
Methylene Chloride
Concen: 24.922 ppbv
RT: 3.918 min Scan# 409
Delta R.T. 0.003 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Tgt Ion: 84 Resp: 1187249
Ion Ratio Lower Upper
84 100
49 148.7 114.6 171.8
51 47.0 34.3 51.5
86 62.9 51.8 77.8





#21

Allyl Chloride

Concen: 0.101 ppbv

RT: 3.944 min Scan# 41

Delta R.T. -0.035 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

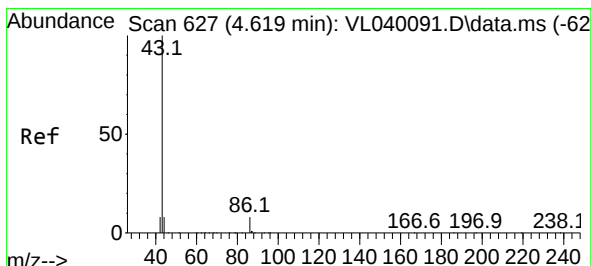
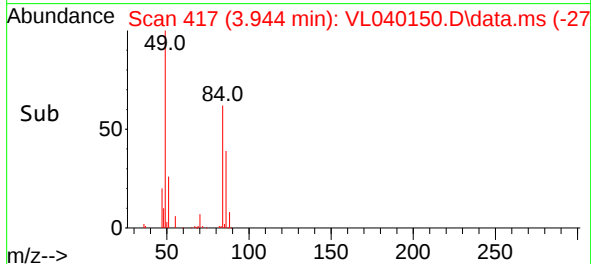
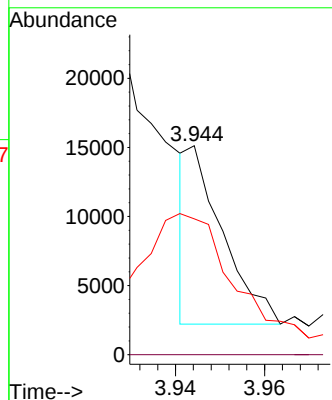
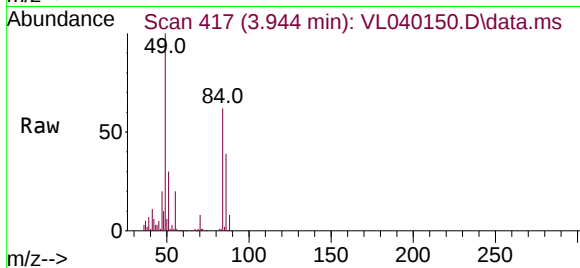
Tgt Ion: 41 Resp: 7024

Ion Ratio Lower Upper

41 100

76 27.1 25.9 38.9

39 256.7 66.8 100.2#



#23

Vinyl Acetate

Concen: 0.068 ppbv

RT: 4.613 min Scan# 625

Delta R.T. 0.000 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

Tgt Ion: 43 Resp: 2372

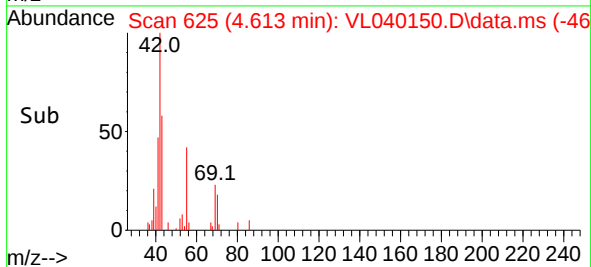
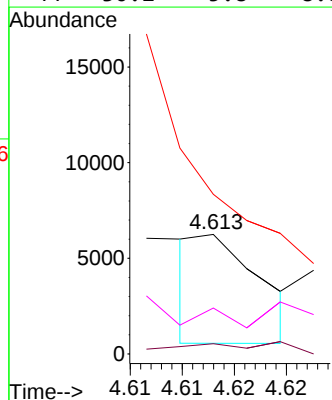
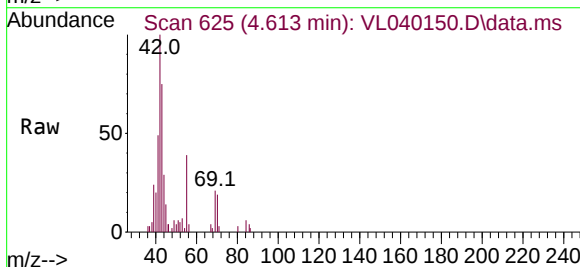
Ion Ratio Lower Upper

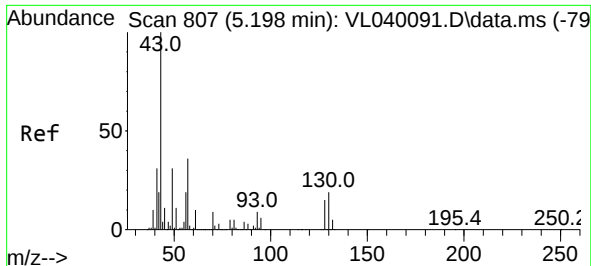
43 100

86 5.1 5.6 8.4#

42 68.8 7.7 11.5#

44 30.2 5.8 8.8#





#25

Ethyl Acetate

Concen: 0.399 ppbv

RT: 5.198 min Scan# 807

Delta R.T. 0.010 min

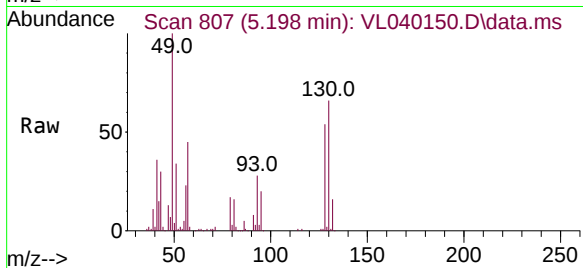
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Acq: 6 Feb 2023 17:44

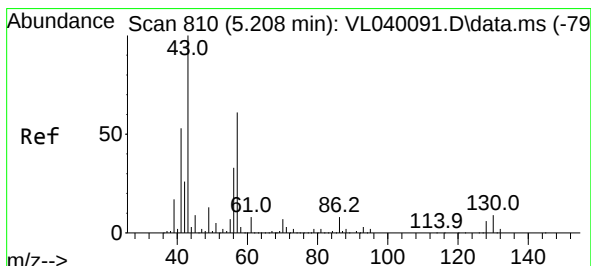
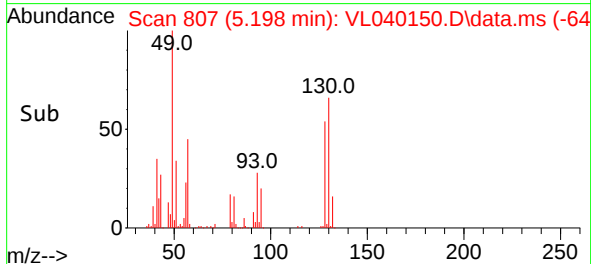
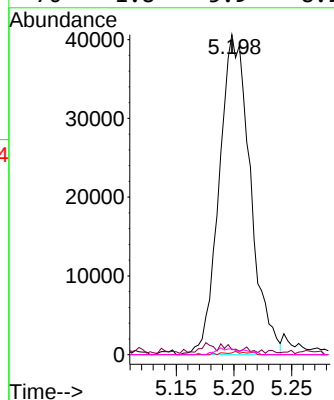
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:	43	Resp:	75950
Ion	Ratio	Lower	Upper
43	100		
45	2.7	8.5	12.7#
61	0.7	8.4	12.6#
70	1.8	5.9	8.9#



#26

Hexane

Concen: 1.278 ppbv

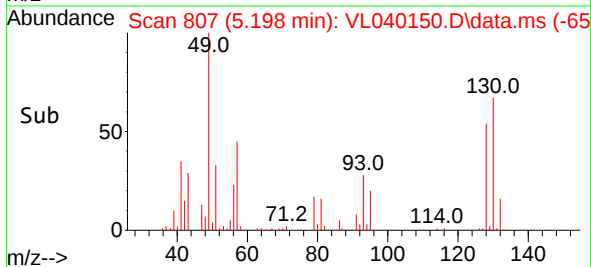
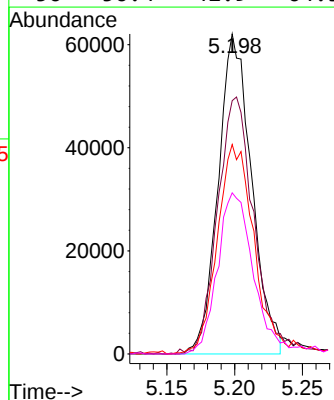
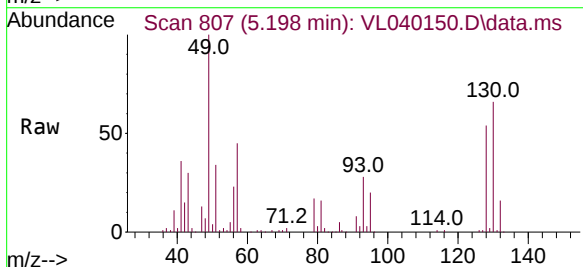
RT: 5.198 min Scan# 807

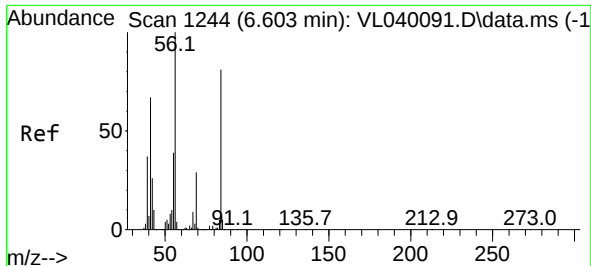
Delta R.T. 0.000 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

Tgt Ion:	57	Resp:	106359
Ion	Ratio	Lower	Upper
57	100		
41	89.0	72.2	108.4
43	75.2	192.1	288.1#
56	56.4	42.9	64.3





#30

Cyclohexane

Concen: 0.097 ppbv

RT: 6.594 min Scan# 1241

Delta R.T. 0.003 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

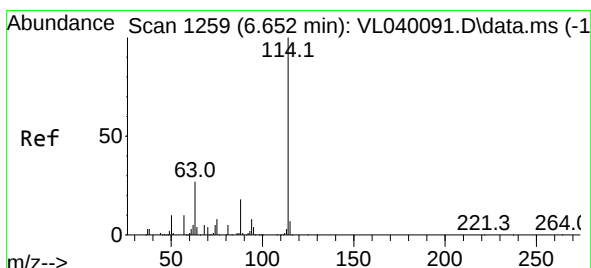
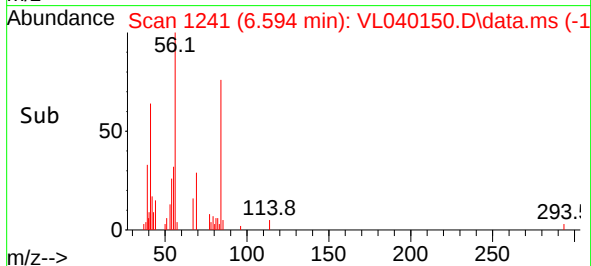
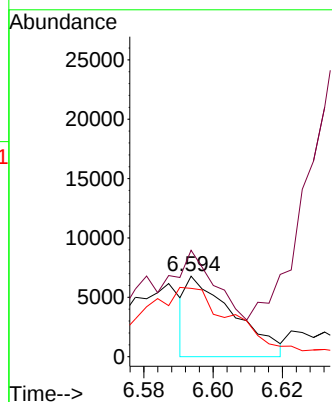
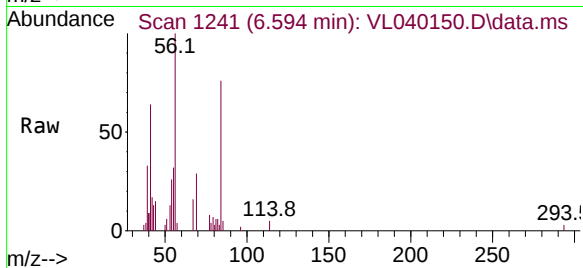
Tgt Ion: 84 Resp: 6406

Ion Ratio Lower Upper

84 100

56 239.3 111.5 167.3#

41 199.6 71.4 107.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 1256

Delta R.T. 0.000 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

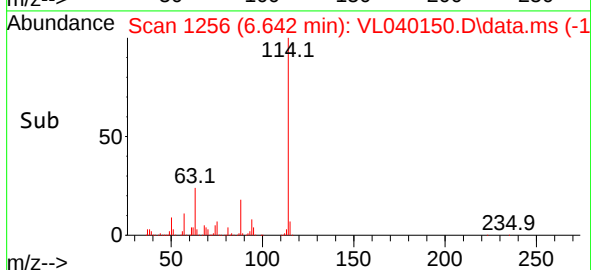
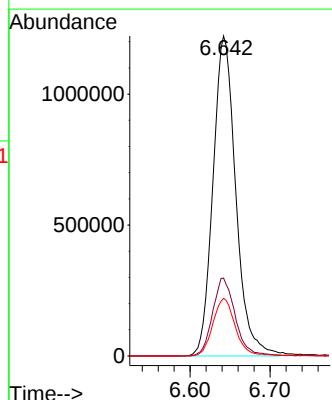
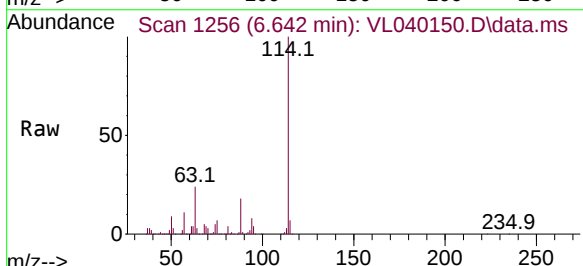
Tgt Ion: 114 Resp: 2416292

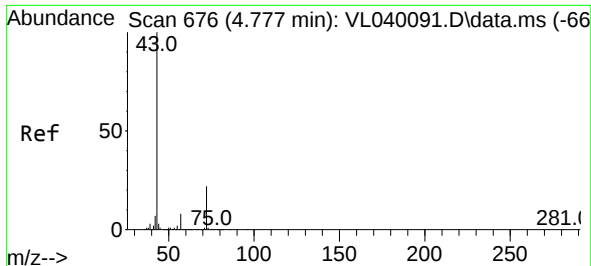
Ion Ratio Lower Upper

114 100

63 24.4 21.8 32.8

88 17.9 14.8 22.2

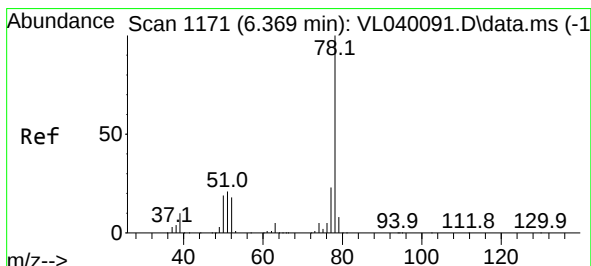
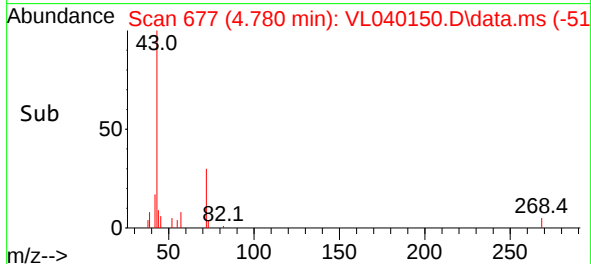
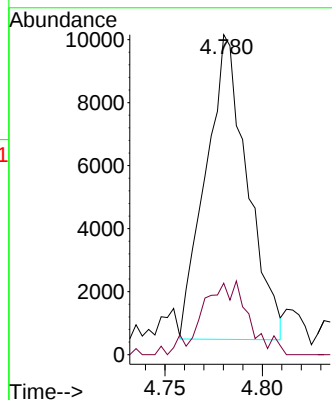
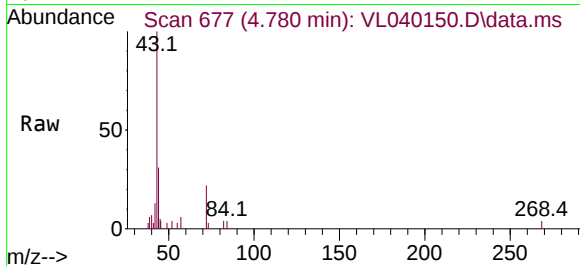




#34
2-Butanone
Concen: 0.125 ppbv
RT: 4.780 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

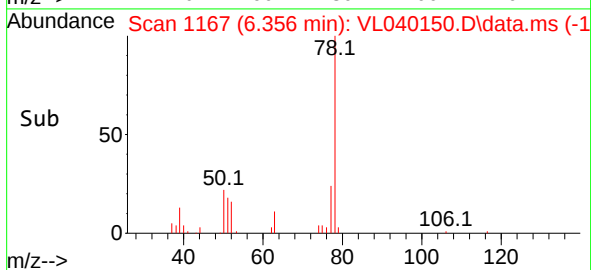
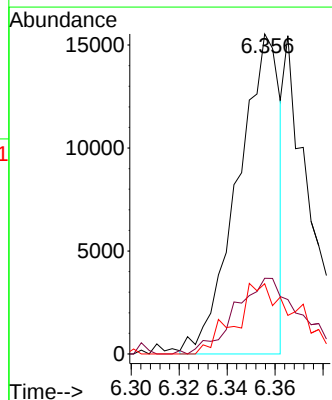
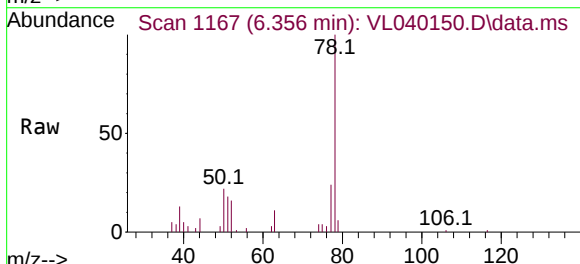
Instrument :
MSVOA_L
ClientSampleId :

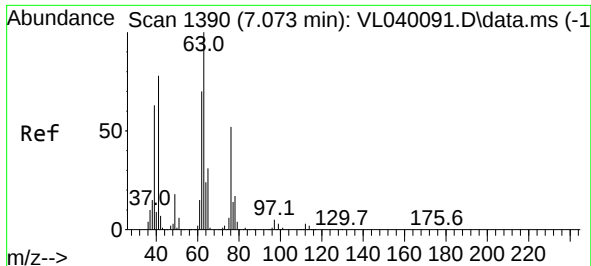
Tgt Ion: 43 Resp: 14299
Ion Ratio Lower Upper
43 100
72 26.7 18.4 27.6



#36
Benzene
Concen: 0.106 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. -0.003 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Tgt Ion: 78 Resp: 18915
Ion Ratio Lower Upper
78 100
77 22.8 18.1 27.1
50 22.2 15.6 23.4





#39

1,2-Dichloropropane

Concen: 8.361 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.421 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

Instrument :

MSVOA_L

ClientSampleId :

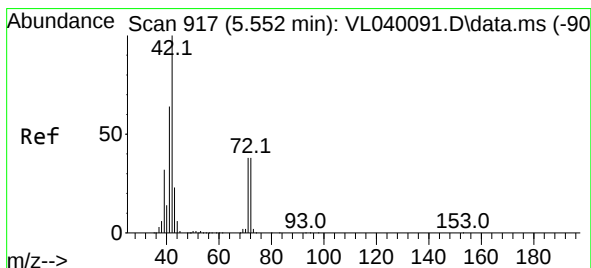
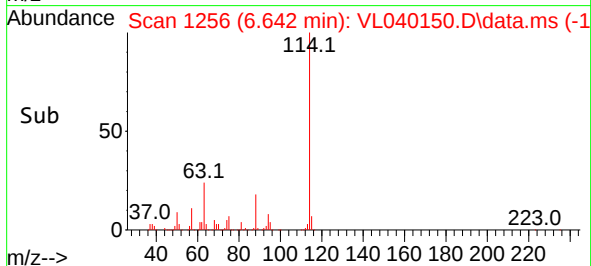
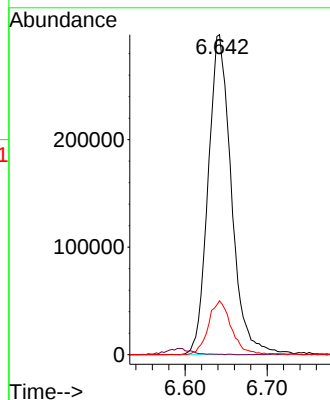
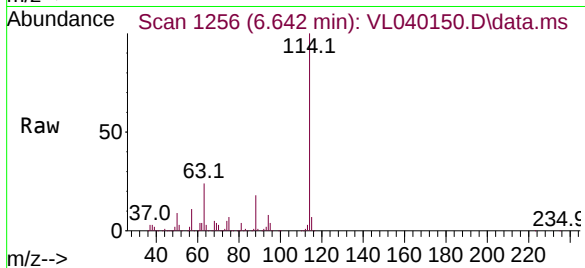
Tgt Ion: 63 Resp: 584753

Ion Ratio Lower Upper

63 100

41 0.0 62.2 93.4#

62 16.9 55.8 83.8#



#41

Tetrahydrofuran

Concen: 0.054 ppbv

RT: 5.561 min Scan# 920

Delta R.T. 0.019 min

Lab File: VL040150.D

Acq: 6 Feb 2023 17:44

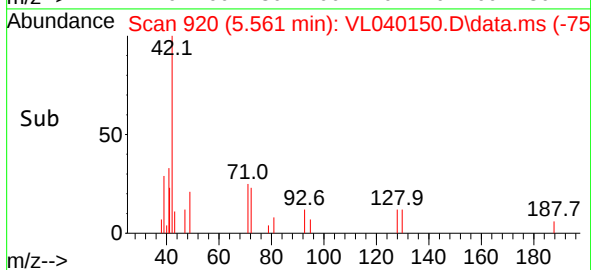
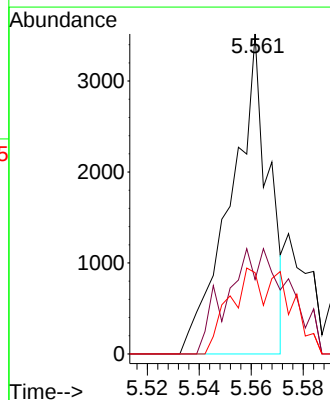
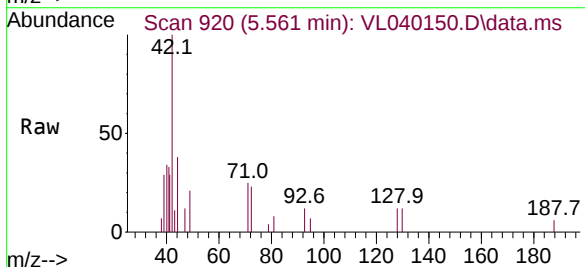
Tgt Ion: 42 Resp: 3539

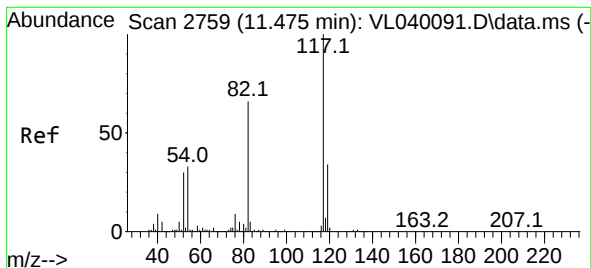
Ion Ratio Lower Upper

42 100

72 53.7 31.9 47.9#

71 40.9 31.4 47.2

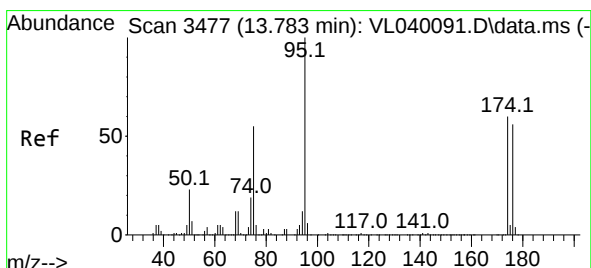
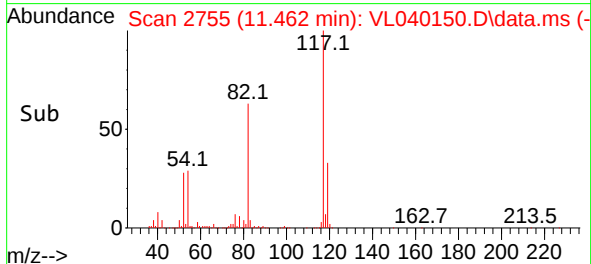
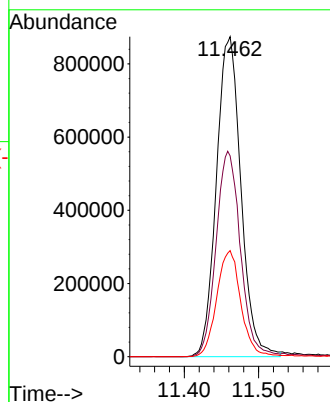
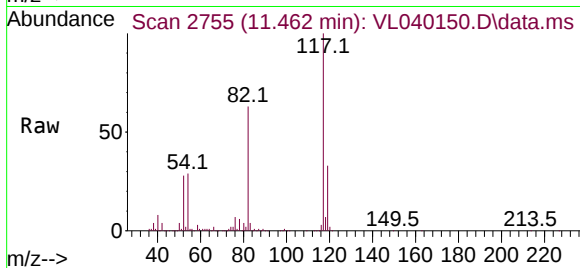




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.462 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:117 Resp: 2012833
Ion Ratio Lower Upper
117 100
82 64.2 54.4 81.6
119 33.2 26.8 40.2



#68
1-Bromo-4-Fluorobenzene
Concen: 8.666 ppbv
RT: 13.770 min Scan# 3473
Delta R.T. 0.000 min
Lab File: VL040150.D
Acq: 6 Feb 2023 17:44

Tgt Ion: 95 Resp: 1449720
Ion Ratio Lower Upper
95 100
174 63.8 47.7 71.5
175 4.6 3.4 5.2

