

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092122\
 Data File : VL039660.D
 Acq On : 22 Sep 2022 7:31
 Operator : SY/AP
 Sample : N4669-10DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0PG2DL

Quant Time: Sep 22 08:29:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

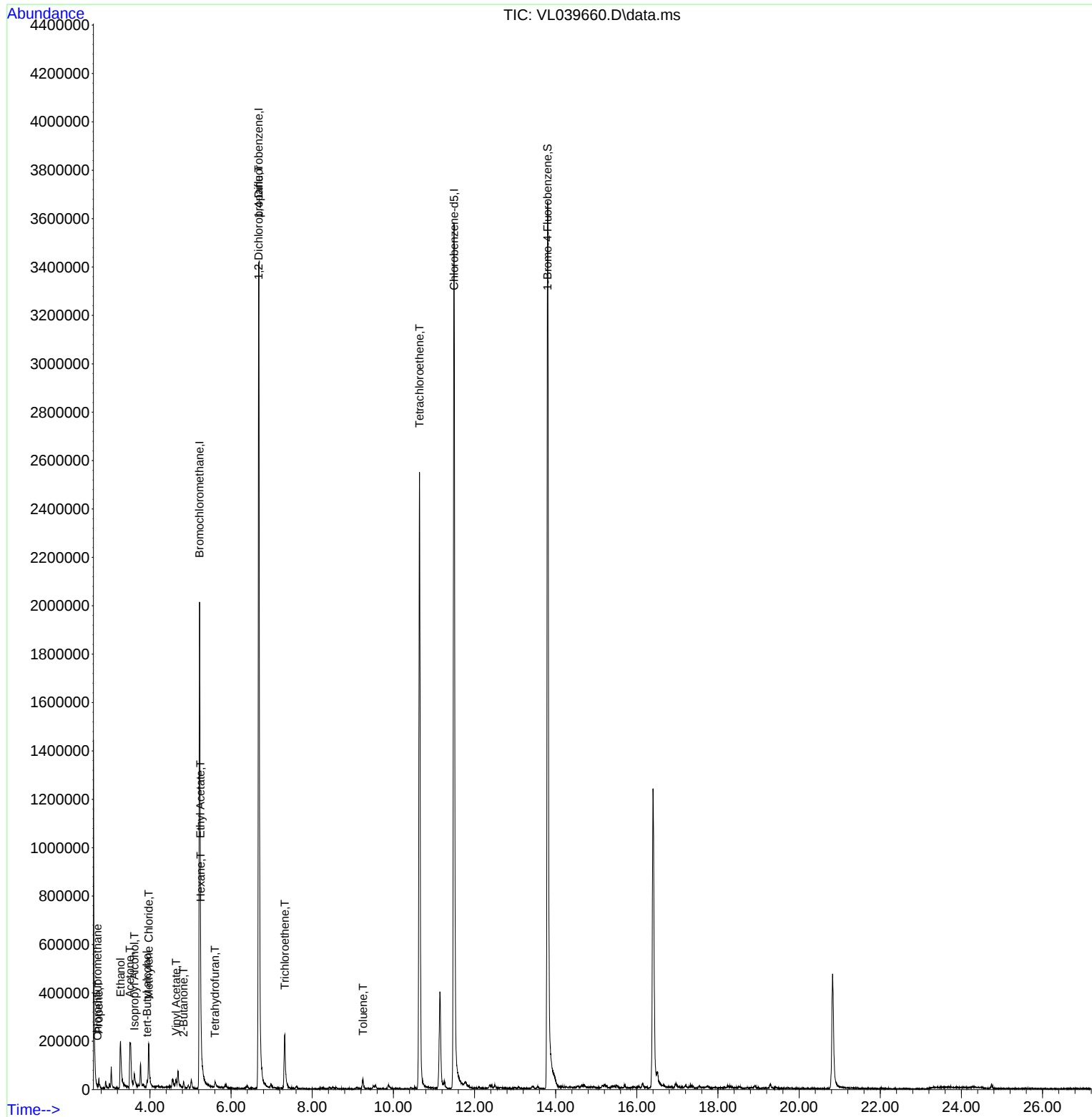
Internal Standards						
1) Bromochloromethane	5.224	49	1033685	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.681	114	2672498	10.000	ppbv	0.02
55) Chlorobenzene-d5	11.494	117	2443371	10.000	ppbv	0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.802	95	1805008	9.896	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.000%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.706	51	8824	0.072	ppbv #	86
9) Propene	2.739	41	9049	0.162	ppbv	92
13) Ethanol	3.276	45	241399	56.550	ppbv	75
15) Acetone	3.507	43	230887	2.007	ppbv	97
17) tert-Butyl alcohol	3.931	59	17097	0.166	ppbv #	83
19) Isopropyl Alcohol	3.620	45	34633	0.591	ppbv #	58
20) Methylene Chloride	3.970	84	60966	1.146	ppbv	97
23) Vinyl Acetate	4.648	43	11592	0.223	ppbv #	1
25) Ethyl Acetate	5.243	43	39499	0.157	ppbv #	82
26) Hexane	5.250	57	36052	0.339	ppbv #	53
34) 2-Butanone	4.829	43	16060	0.122	ppbv #	47
38) Trichloroethene	7.324	130	71742	0.650	ppbv	96
39) 1,2-Dichloropropane	6.677	63	660723	8.374	ppbv #	24
41) Tetrahydrofuran	5.607	42	5085	0.063	ppbv #	30
52) Tetrachloroethene	10.645	164	656863	8.427	ppbv	96
53) Toluene	9.250	91	23694	0.104	ppbv	95

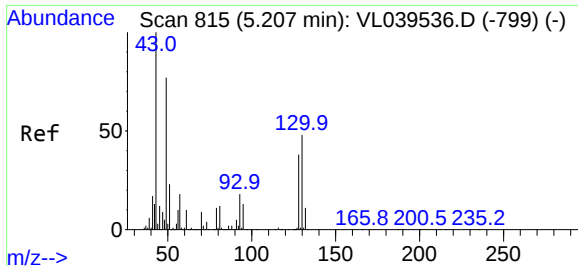
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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C0PG2DL

Quant Time: Sep 22 08:29:03 2022
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Sep 19 14:26:28 2022
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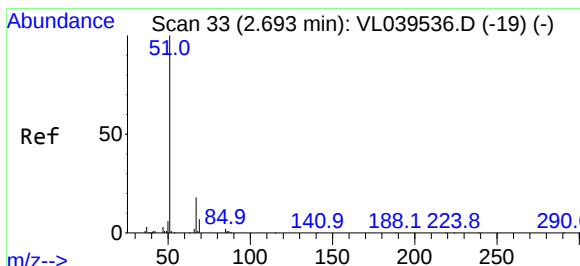
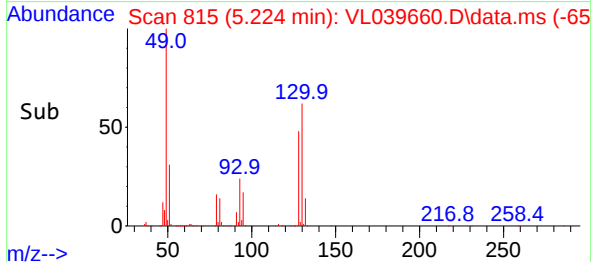
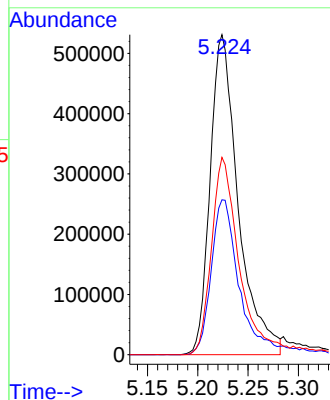
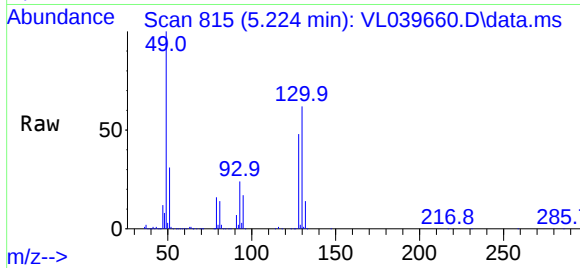




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.224 min Scan# 81
Delta R.T. 0.017 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

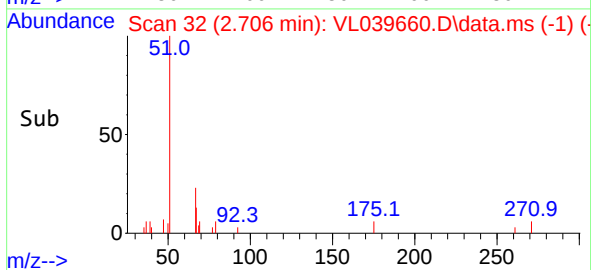
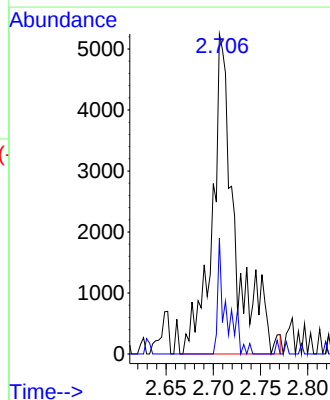
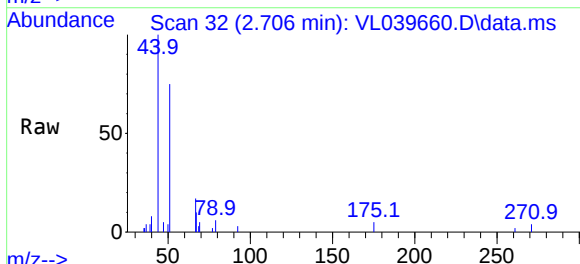
Instrument :
MSVOA_L
ClientSampleId :
C0PG2DL

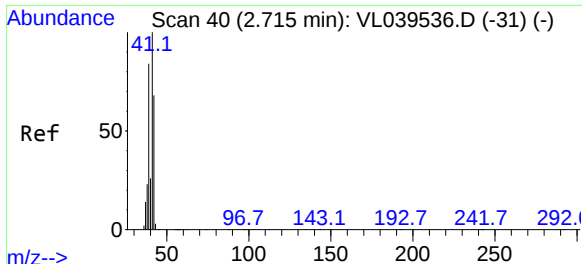
Tgt Ion: 49 Resp: 1033685
Ion Ratio Lower Upper
49 100
128 51.7 26.7 80.0
130 64.7 34.3 102.8



#3
Chlorodifluoromethane
Concen: 0.072 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.014 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion: 51 Resp: 8824
Ion Ratio Lower Upper
51 100
67 13.1 15.7 23.5#

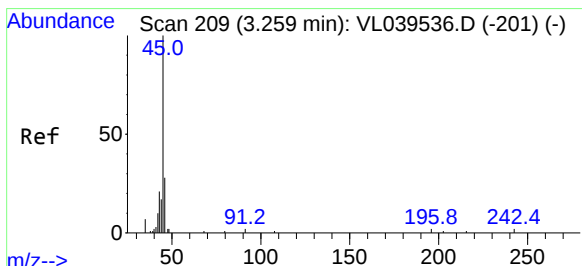
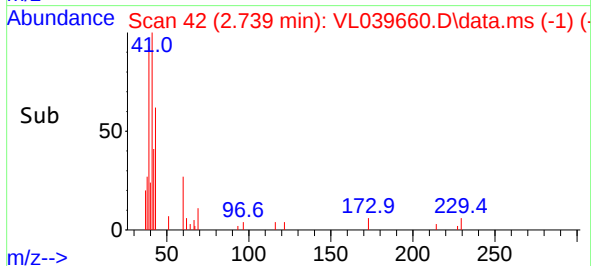
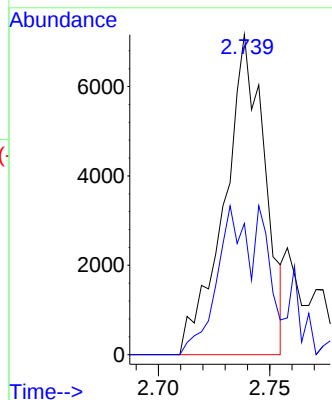
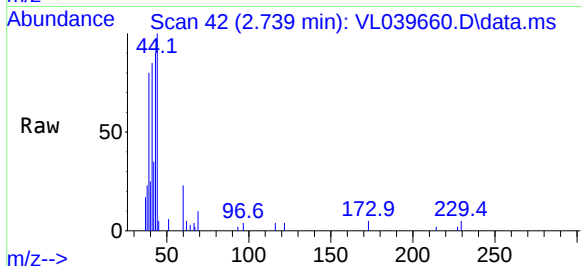




#9
Propene
Concen: 0.162 ppbv
RT: 2.739 min Scan# 41
Delta R.T. 0.023 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

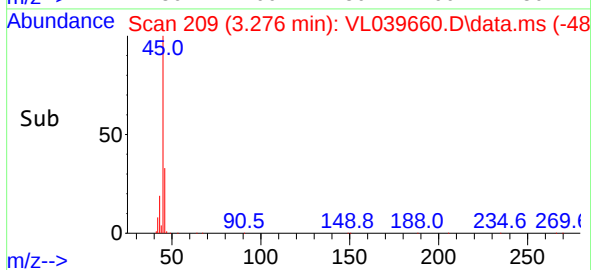
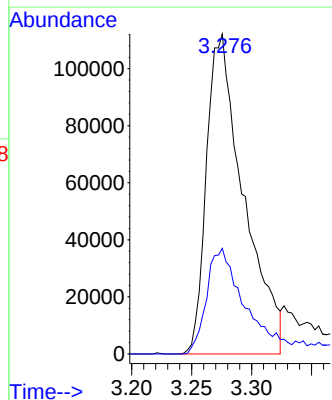
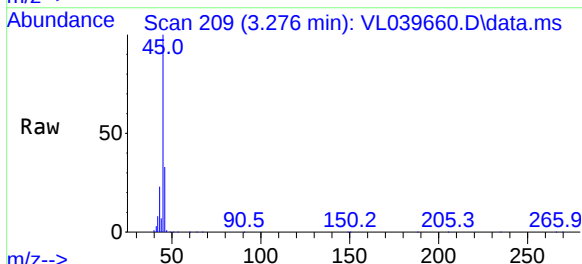
Instrument :
MSVOA_L
ClientSampleId :
C0PG2DL

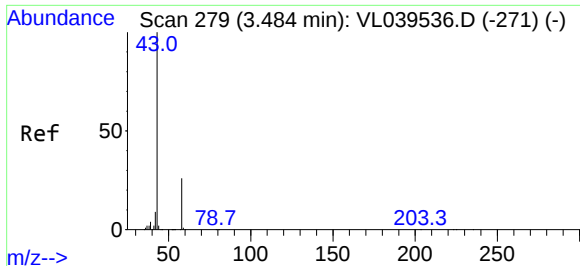
Tgt Ion: 41 Resp: 9049
Ion Ratio Lower Upper
41 100
42 62.1 55.2 82.8



#13
Ethanol
Concen: 56.550 ppbv
RT: 3.276 min Scan# 209
Delta R.T. 0.017 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion: 45 Resp: 241399
Ion Ratio Lower Upper
45 100
46 38.5 22.8 91.2

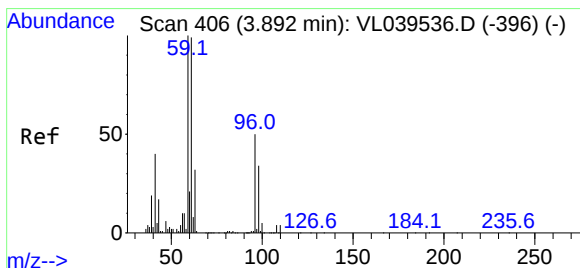
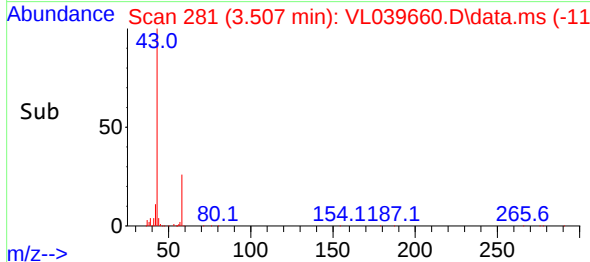
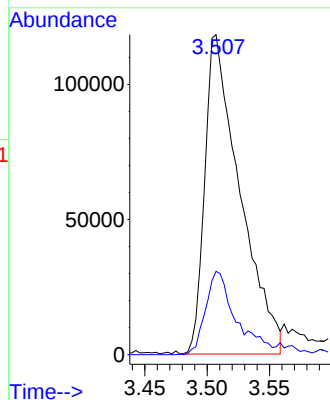
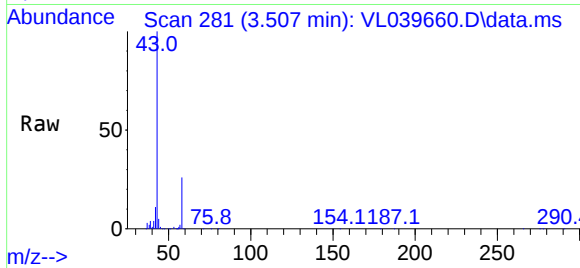




#15
Acetone
Concen: 2.007 ppbv
RT: 3.507 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

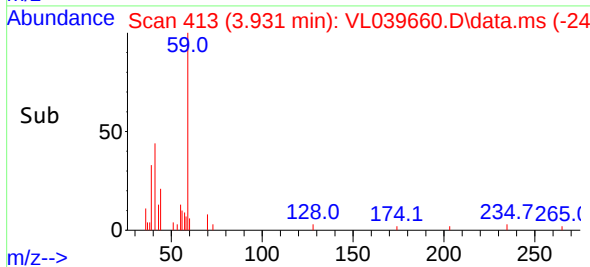
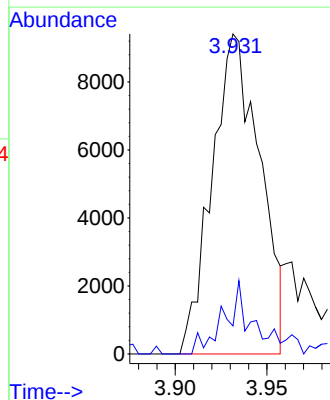
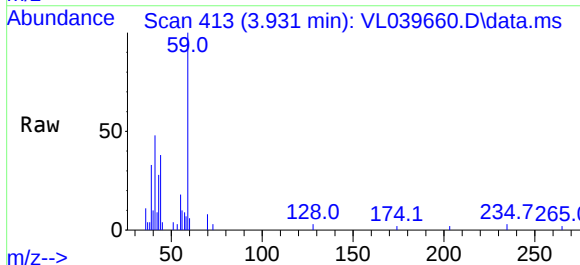
Instrument :
MSVOA_L
ClientSampleId :
C0PG2DL

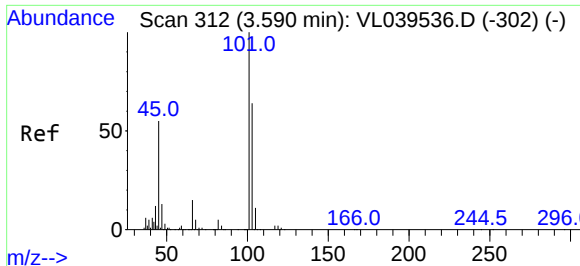
Tgt Ion: 43 Resp: 230887
Ion Ratio Lower Upper
43 100
58 24.5 21.0 31.6



#17
tert-Butyl alcohol
Concen: 0.166 ppbv
RT: 3.931 min Scan# 413
Delta R.T. 0.039 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion: 59 Resp: 17097
Ion Ratio Lower Upper
59 100
57 17.5 8.7 13.1#





#19

Isopropyl Alcohol

Concen: 0.591 ppbv

RT: 3.620 min Scan# 312

Delta R.T. 0.030 min

Lab File: VL039660.D

Acq: 22 Sep 2022 7:31

Instrument :

MSVOA_L

ClientSampleId :

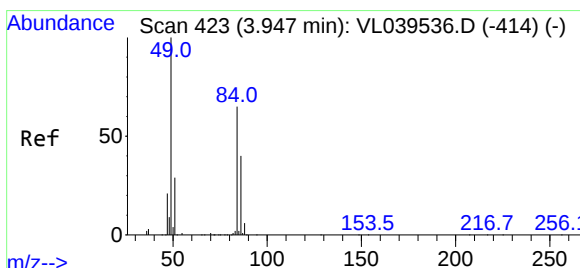
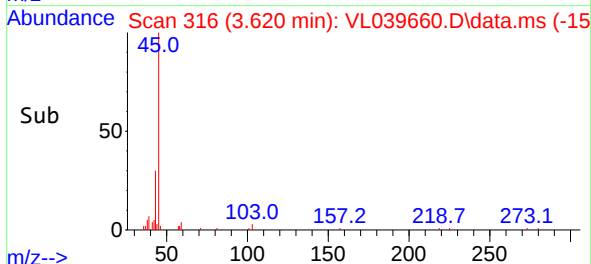
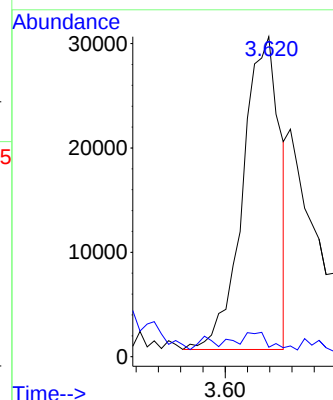
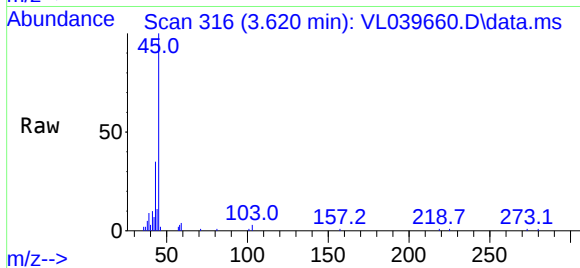
C0PG2DL

Tgt Ion: 45 Resp: 34633

Ion Ratio Lower Upper

45 100

58 17.8 3.2 4.8#



#20

Methylene Chloride

Concen: 1.146 ppbv

RT: 3.970 min Scan# 425

Delta R.T. 0.023 min

Lab File: VL039660.D

Acq: 22 Sep 2022 7:31

Tgt Ion: 84 Resp: 60966

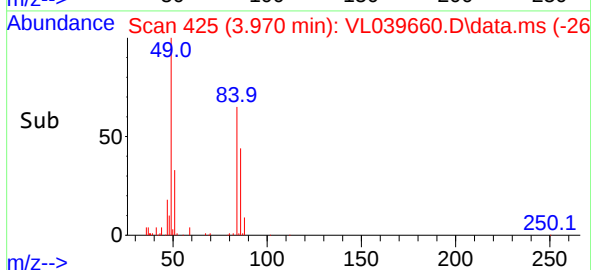
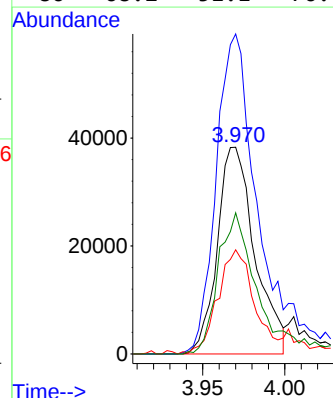
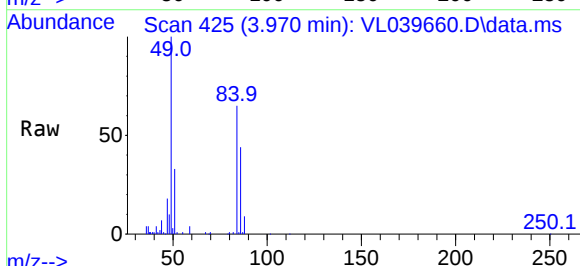
Ion Ratio Lower Upper

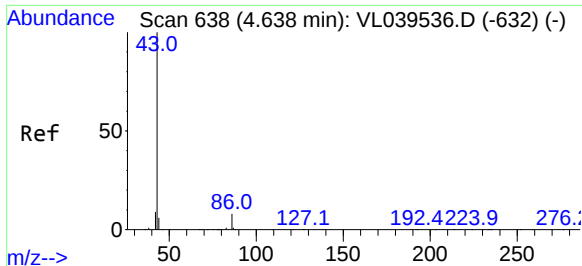
84 100

49 154.1 123.1 184.7

51 49.2 34.4 51.6

86 68.2 51.1 76.7



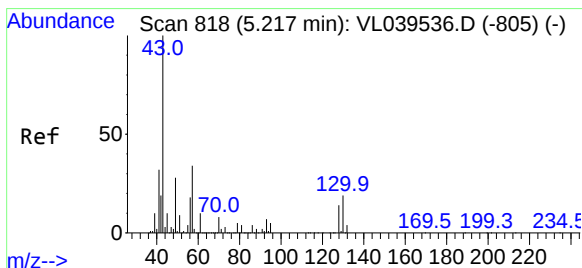
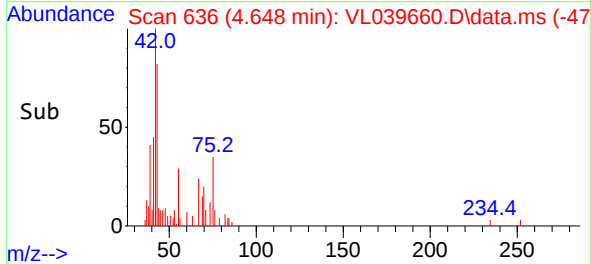
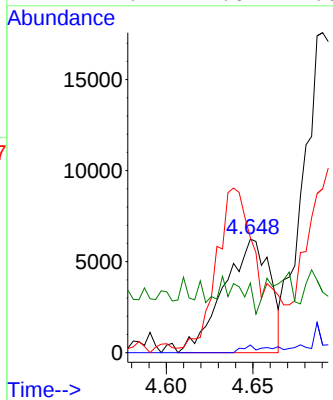
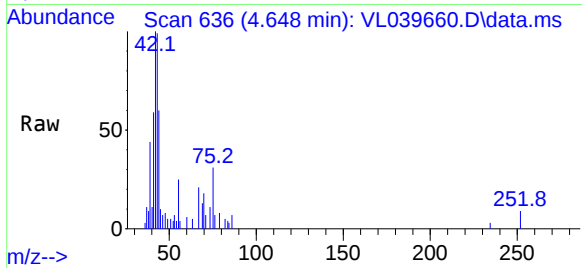


#23
 Vinyl Acetate
 Concen: 0.223 ppbv
 RT: 4.648 min Scan# 61
 Delta R.T. 0.010 min
 Lab File: VL039660.D
 Acq: 22 Sep 2022 7:31

Instrument :
 MSVOA_1
 ClientSampleId :
 C0PG2DL

Tgt Ion: 43 Resp: 11592

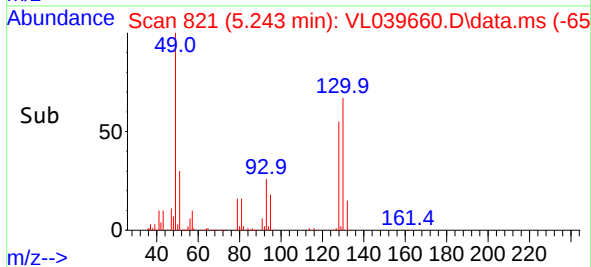
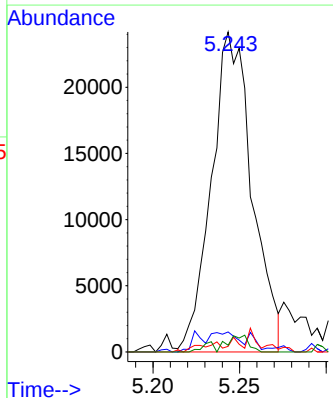
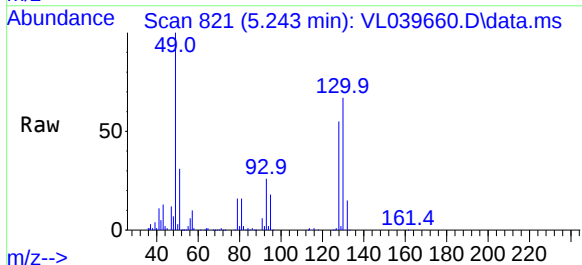
Ion	Ratio	Lower	Upper
43	100		
86	6.7	5.0	7.6
42	97.5	7.7	11.5#
44	14.9	4.6	7.0#

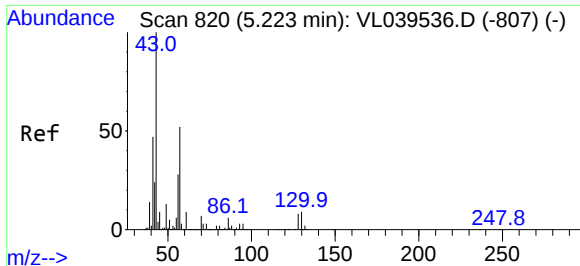


#25
 Ethyl Acetate
 Concen: 0.157 ppbv
 RT: 5.243 min Scan# 821
 Delta R.T. 0.026 min
 Lab File: VL039660.D
 Acq: 22 Sep 2022 7:31

Tgt Ion: 43 Resp: 39499

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	5.2	8.3	12.5#
70	3.5	5.9	8.9#

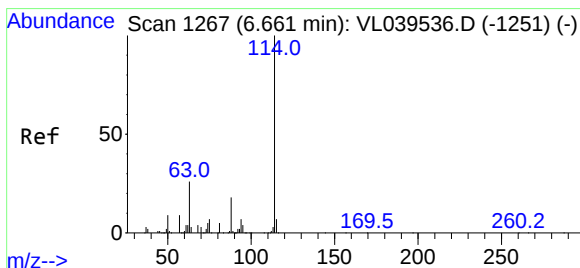
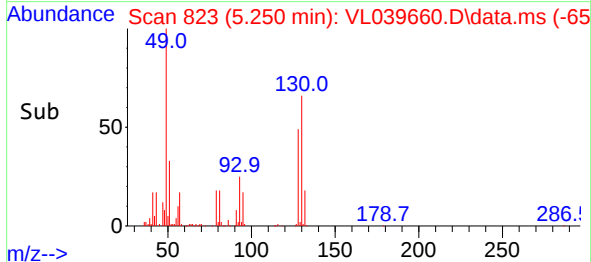
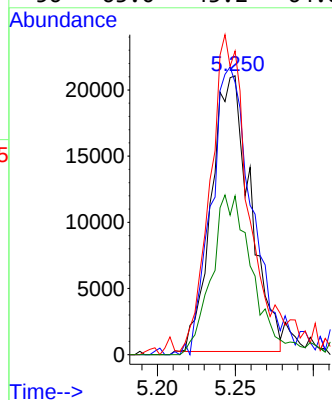
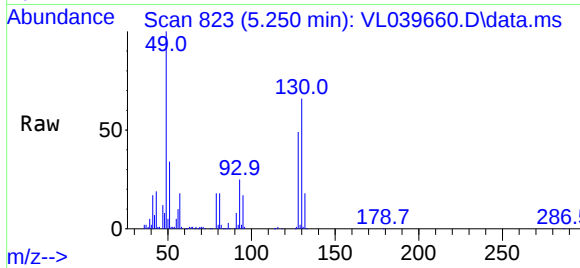




#26
Hexane
Concen: 0.339 ppbv
RT: 5.250 min Scan# 81
Delta R.T. 0.026 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

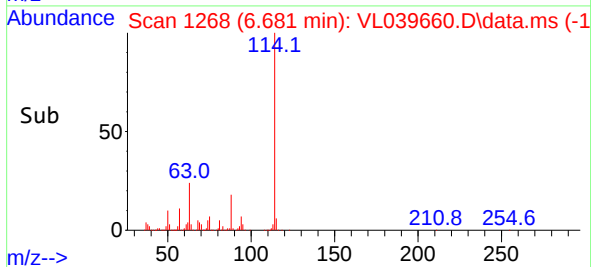
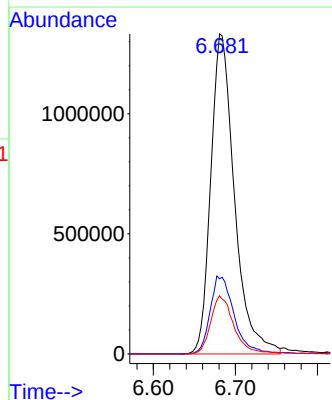
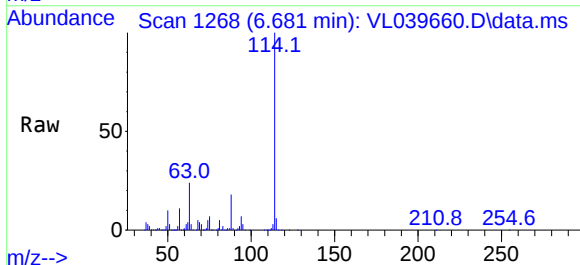
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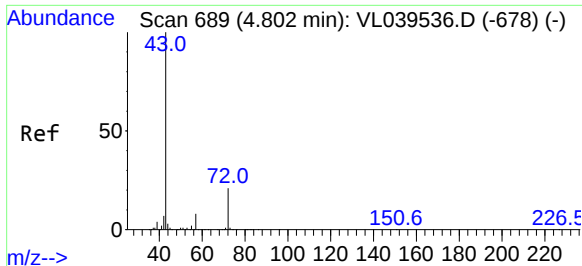
Tgt Ion: 57	Resp: 36052
Ion Ratio	Lower Upper
57 100	
41 114.3	76.9 115.3
43 125.5	191.0 286.6#
56 63.0	43.2 64.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.681 min Scan# 1268
Delta R.T. 0.020 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion:114	Resp: 2672498		
Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.2	30.4
88	18.1	14.5	21.7

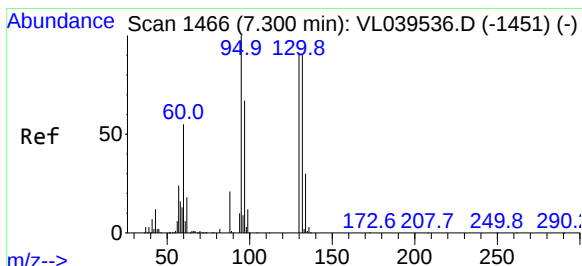
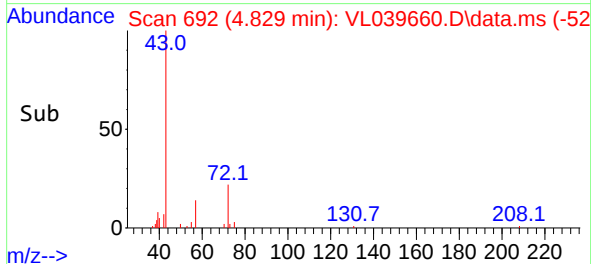
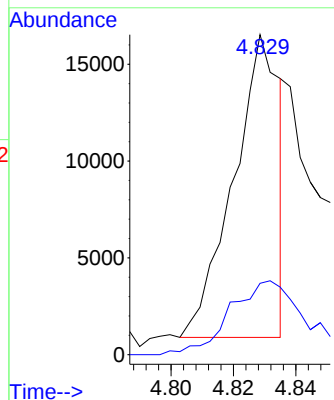
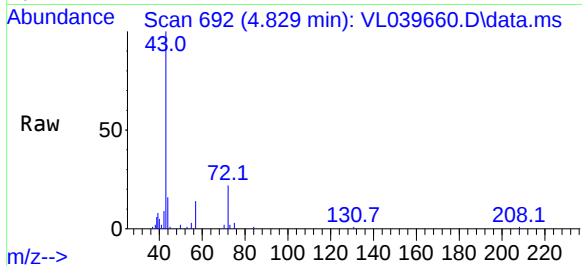




#34
2-Butanone
Concen: 0.122 ppbv
RT: 4.829 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

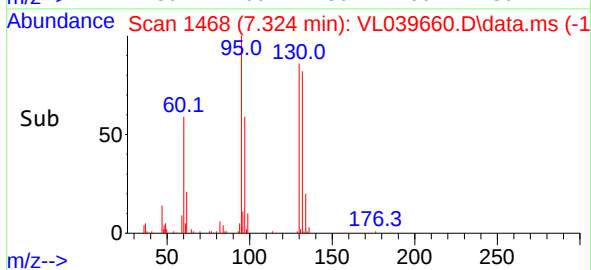
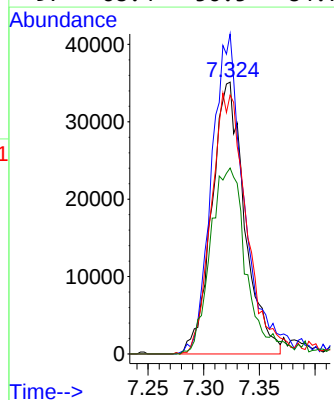
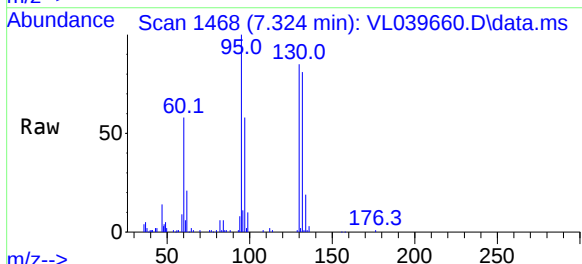
Instrument :
MSVOA_L
ClientSampleId :
C0PG2DL

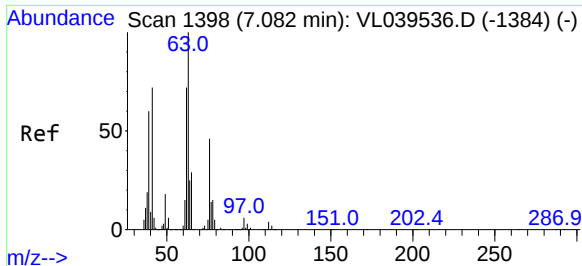
Tgt Ion: 43 Resp: 16060
Ion Ratio Lower Upper
43 100
72 47.7 17.9 26.9#



#38
Trichloroethene
Concen: 0.650 ppbv
RT: 7.324 min Scan# 1468
Delta R.T. 0.023 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion:130 Resp: 71742
Ion Ratio Lower Upper
130 100
95 117.2 87.3 130.9
132 95.3 76.7 115.1
97 68.4 56.5 84.7





#39

1,2-Dichloropropane

Concen: 8.374 ppbv

RT: 6.677 min Scan# 11

Delta R.T. -0.404 min

Lab File: VL039660.D

Acq: 22 Sep 2022 7:31

Instrument :

MSVOA_L

ClientSampleId :

C0PG2DL

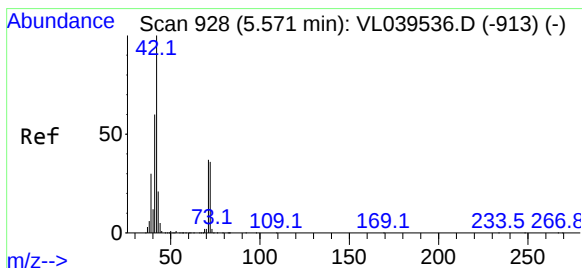
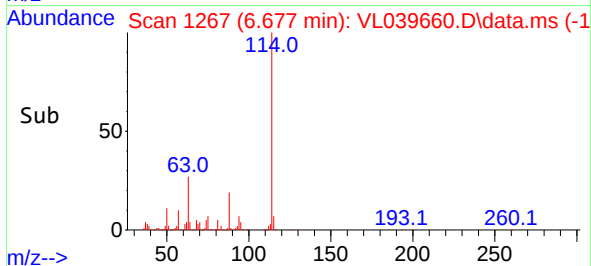
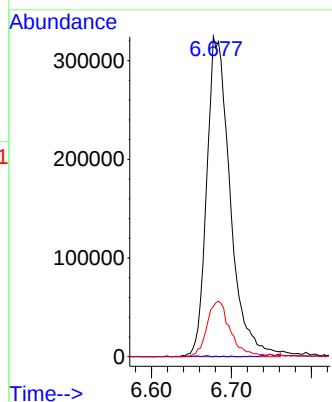
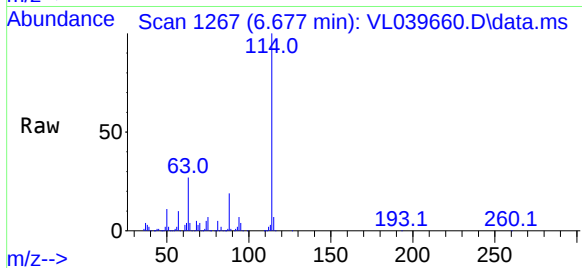
Tgt Ion: 63 Resp: 660723

Ion Ratio Lower Upper

63 100

41 0.0 59.6 89.4#

62 15.6 51.4 77.0#



#41

Tetrahydrofuran

Concen: 0.063 ppbv

RT: 5.607 min Scan# 934

Delta R.T. 0.036 min

Lab File: VL039660.D

Acq: 22 Sep 2022 7:31

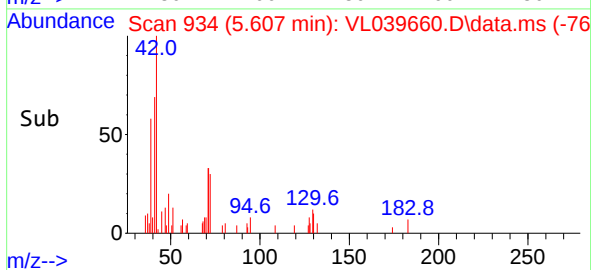
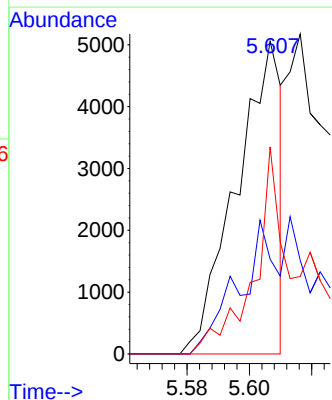
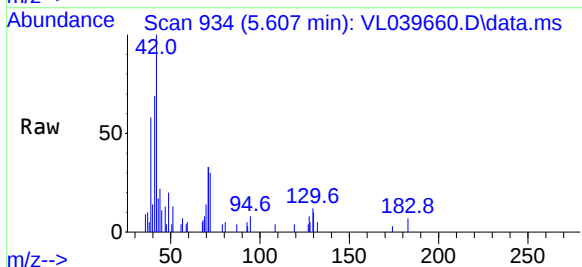
Tgt Ion: 42 Resp: 5085

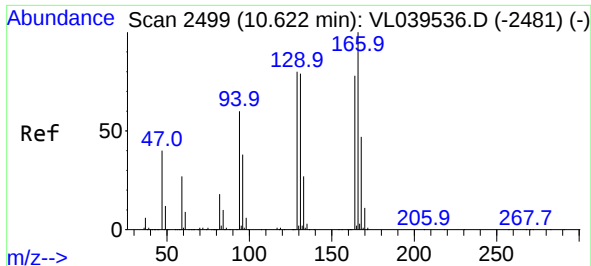
Ion Ratio Lower Upper

42 100

72 0.0 31.8 47.8#

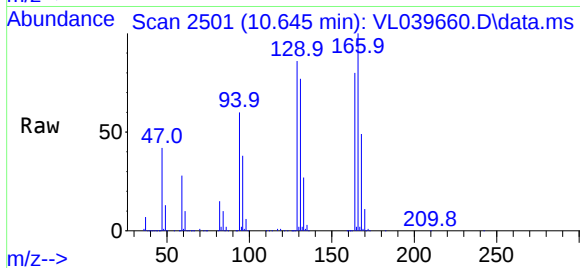
71 85.9 31.8 47.8#



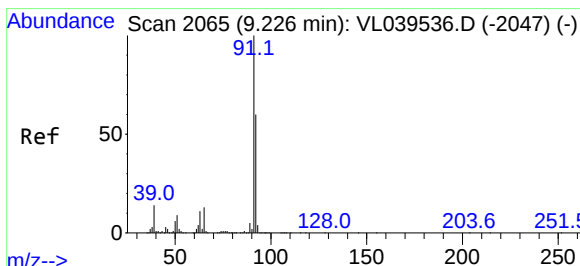
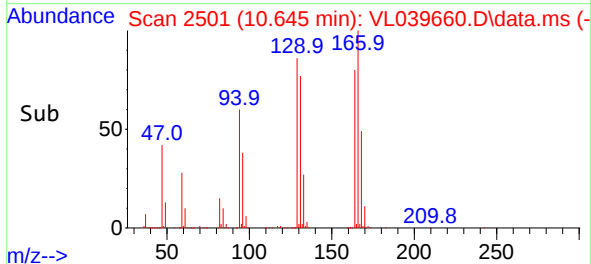
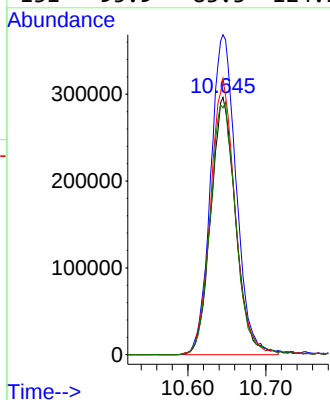


#52
Tetrachloroethene
Concen: 8.427 ppbv
RT: 10.645 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Instrument :
MSVOA_L
ClientSampleId :
C0PG2DL

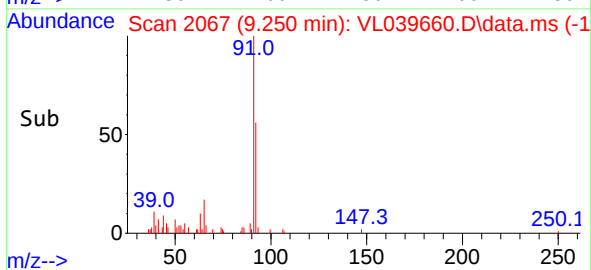
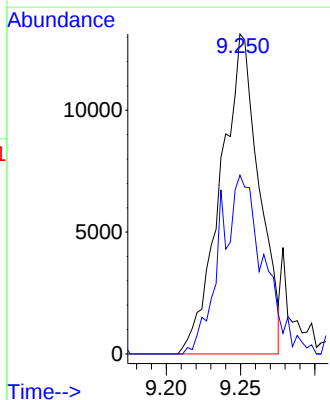
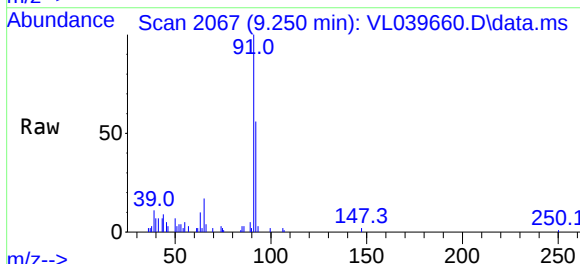


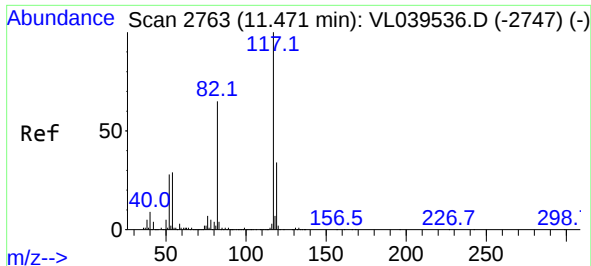
Tgt Ion:164 Resp: 656863
Ion Ratio Lower Upper
164 100
166 124.3 102.2 153.2
129 107.3 85.8 128.8
131 95.9 83.3 124.9



#53
Toluene
Concen: 0.104 ppbv
RT: 9.250 min Scan# 2067
Delta R.T. 0.023 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion: 91 Resp: 23694
Ion Ratio Lower Upper
91 100
92 64.0 48.2 72.2



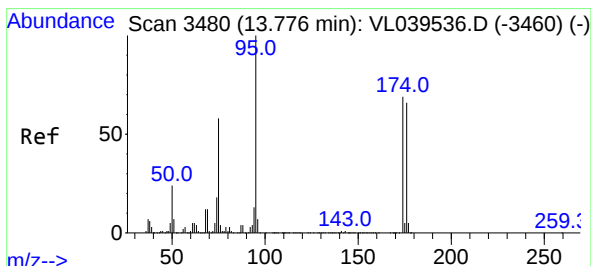
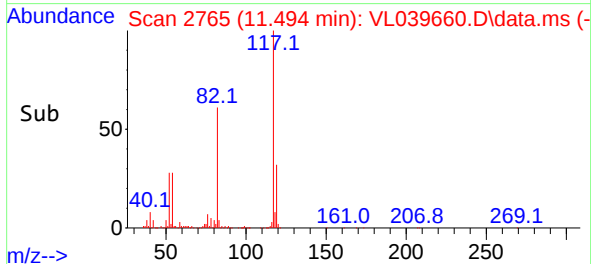
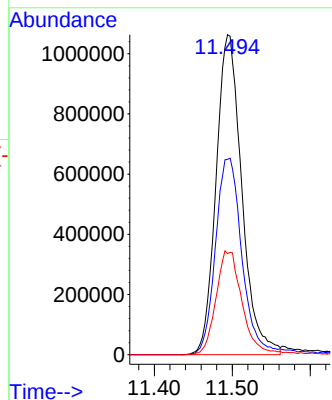
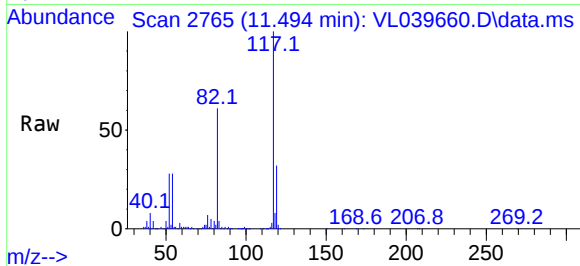


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.494 min Scan# 21
Delta R.T. 0.023 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Instrument :
MSVOA_L
ClientSampleId :
C0PG2DL

Tgt Ion: 117 Resp: 2443371

Ion	Ratio	Lower	Upper
117	100		
82	65.0	50.8	76.2
119	33.4	24.1	36.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.896 ppbv
RT: 13.802 min Scan# 3483
Delta R.T. 0.026 min
Lab File: VL039660.D
Acq: 22 Sep 2022 7:31

Tgt Ion: 95 Resp: 1805008

Ion	Ratio	Lower	Upper
95	100		
174	70.9	55.9	83.9
175	5.4	4.2	6.4

