

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL031323\
 Data File : VL040269.D
 Acq On : 13 Mar 2023 17:46
 Operator : SY/MD
 Sample : 01897-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-FRONT

Quant Time: Mar 14 04:55:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Mar 14 04:52:39 2023
 Response via : Initial Calibration

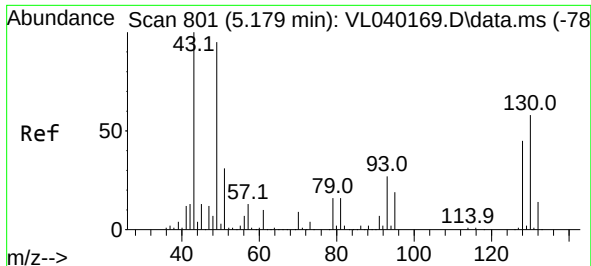
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	5.195	49	820265	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.658	114	2016031	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	1778609	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.793	95	1499994	10.256	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	31836	0.208	ppbv	91
3) Chlorodifluoromethane	2.661	51	47864	0.488	ppbv #	90
4) Chloromethane	2.806	50	27980	0.455	ppbv	99
9) Propene	2.864	41	81792	2.048	ppbv	99
11) Trichlorofluoromethane	3.555	101	33423	0.244	ppbv	98
12) 1,1,2-Trichlorotrifluo...	4.060	101	3882	0.038	ppbv #	16
13) Ethanol	3.230	45	268587	73.043	ppbv	88
15) Acetone	3.462	43	893265	9.045	ppbv	97
16) 1,3-Butadiene	2.957	39	3986	0.088	ppbv #	37
17) tert-Butyl alcohol	3.886	59	7092	0.079	ppbv #	72
19) Isopropyl Alcohol	3.575	45	24618	0.524	ppbv #	1
20) Methylene Chloride	3.928	84	384545	7.480	ppbv	92
21) Allyl Chloride	3.726	41	1867032	30.824	ppbv #	50
23) Vinyl Acetate	4.613	43	14241	0.475	ppbv #	43
25) Ethyl Acetate	5.211	43	175966	0.959	ppbv #	83
26) Hexane	5.211	57	223625	2.838	ppbv #	40
34) 2-Butanone	4.787	43	272651	2.742	ppbv	96
35) Carbon Tetrachloride	6.494	117	4177	0.035	ppbv #	78
36) Benzene	6.375	78	18040	0.115	ppbv #	88
39) 1,2-Dichloropropane	6.658	63	527723	8.647	ppbv #	25
41) Tetrahydrofuran	5.568	42	27831	0.483	ppbv #	36
53) Toluene	9.230	91	703527	4.187	ppbv	100
58) Ethyl Benzene	12.101	91	869662	4.024	ppbv	95
59) m/p-Xylene	12.355	91	2255105	11.782	ppbv	97
60) o-Xylene	13.076	91	169971	0.923	ppbv #	32

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

Quant Time: Mar 14 04:55:03 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Tue Mar 14 04:52:39 2023
Response via : Initial Calibration

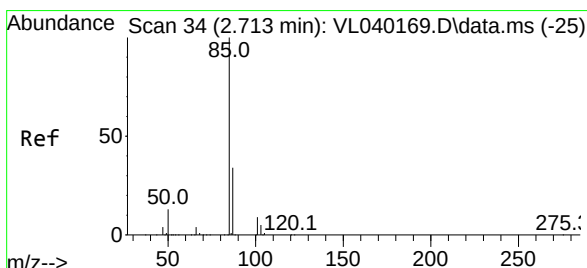
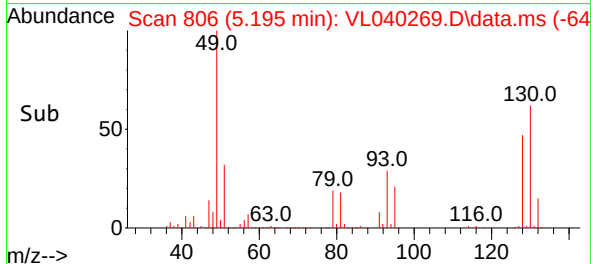
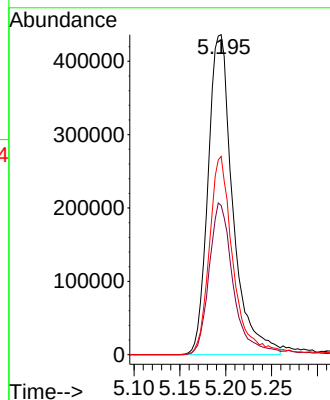
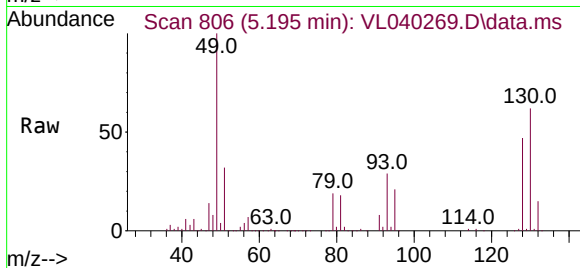




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. 0.006 min
 Lab File: VL040269.D
 Acq: 13 Mar 2023 17:46

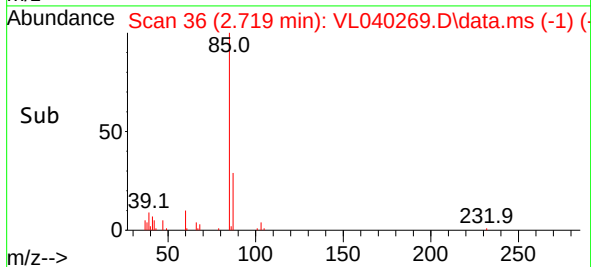
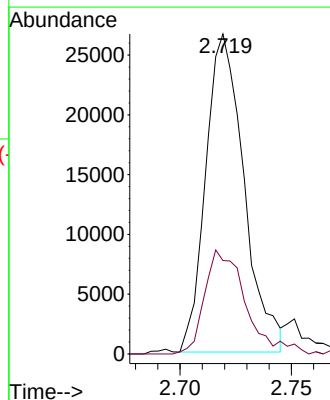
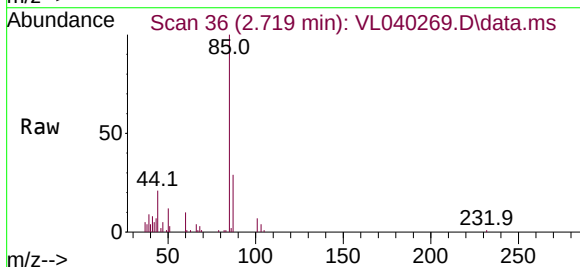
Instrument :
 MSVOA_1
 ClientSampleId :
 BASEMENT-FRONT

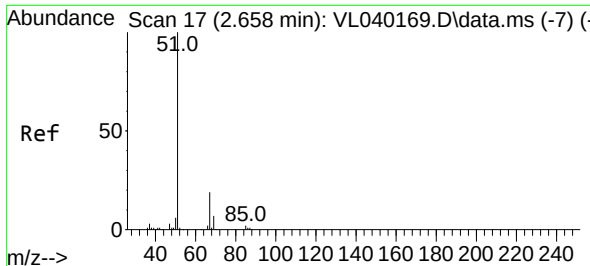
Tgt Ion: 49 Resp: 820265
 Ion Ratio Lower Upper
 49 100
 128 48.1 24.1 72.3
 130 61.4 30.9 92.8



#2
 Dichlorodifluoromethane
 Concen: 0.208 ppbv
 RT: 2.719 min Scan# 36
 Delta R.T. 0.006 min
 Lab File: VL040269.D
 Acq: 13 Mar 2023 17:46

Tgt Ion: 85 Resp: 31836
 Ion Ratio Lower Upper
 85 100
 87 28.7 27.0 40.6

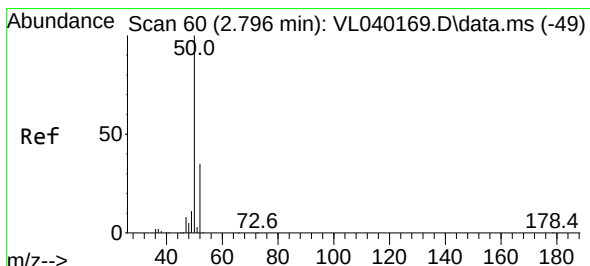
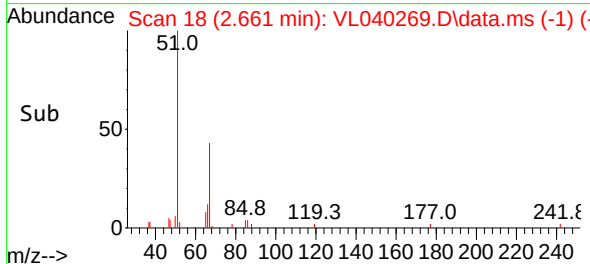
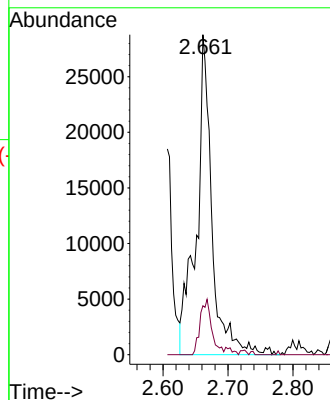
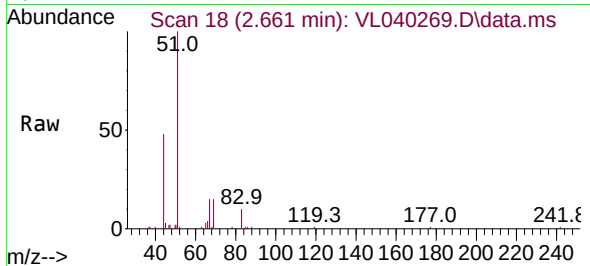




#3
Chlorodifluoromethane
Concen: 0.488 ppbv
RT: 2.661 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

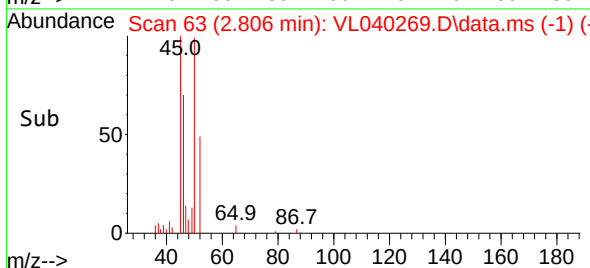
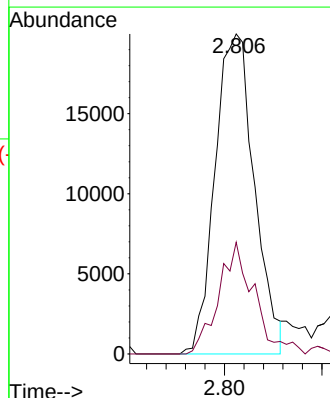
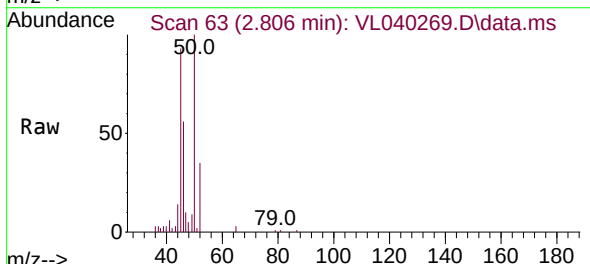
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONT

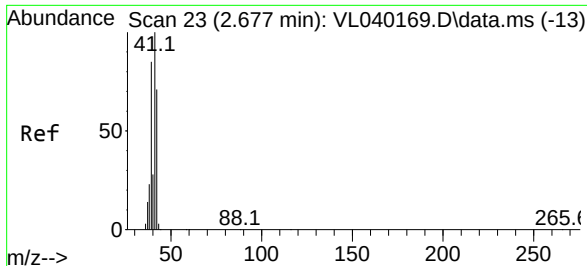
Tgt Ion: 51 Resp: 47864
Ion Ratio Lower Upper
51 100
67 14.7 15.4 23.2#



#4
Chloromethane
Concen: 0.455 ppbv
RT: 2.806 min Scan# 63
Delta R.T. 0.006 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 50 Resp: 27980
Ion Ratio Lower Upper
50 100
52 34.9 28.3 42.5





#9

Propene

Concen: 2.048 ppbv

RT: 2.864 min Scan# 81

Delta R.T. 0.187 min

Lab File: VL040269.D

Acq: 13 Mar 2023 17:46

Instrument :

MSVOA_L

ClientSampleId :

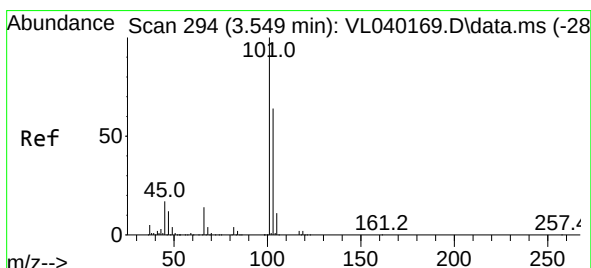
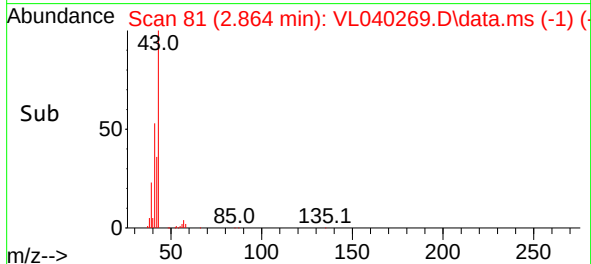
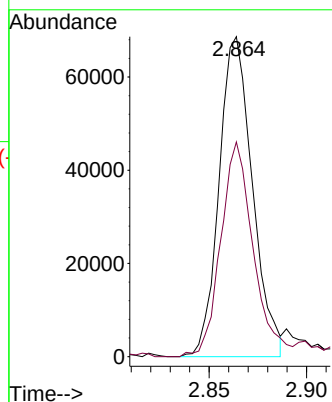
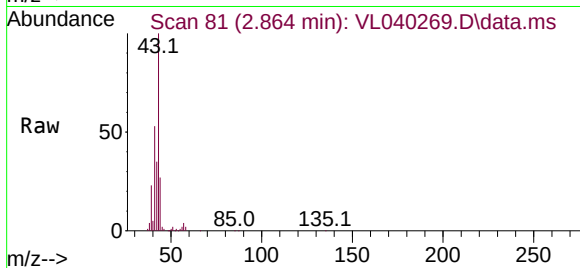
BASEMENT-FRONT

Tgt Ion: 41 Resp: 81792

Ion Ratio Lower Upper

41 100

42 71.8 56.9 85.3



#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.555 min Scan# 296

Delta R.T. 0.003 min

Lab File: VL040269.D

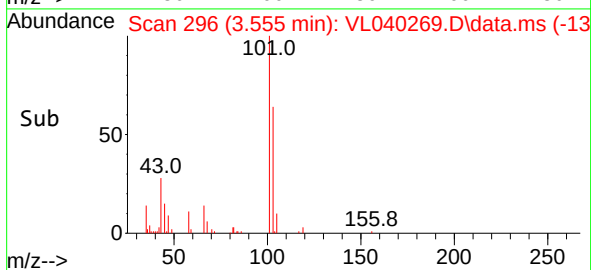
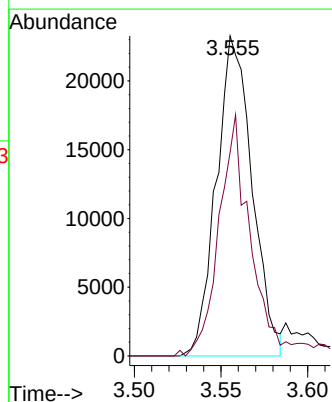
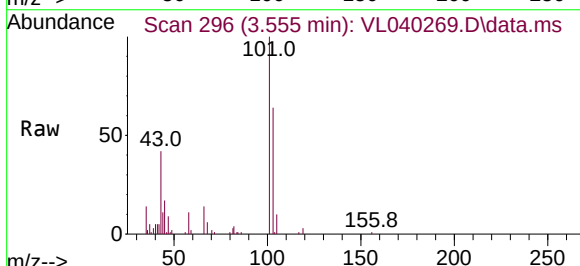
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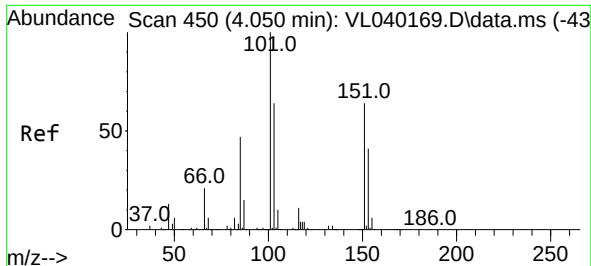
Tgt Ion: 101 Resp: 33423

Ion Ratio Lower Upper

101 100

103 61.9 51.0 76.6

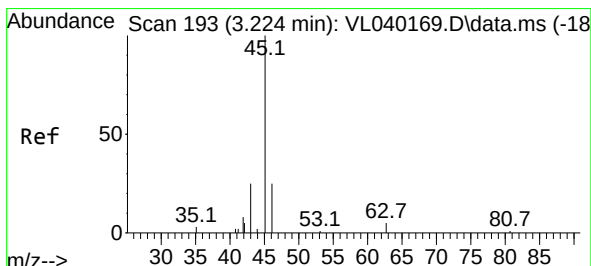
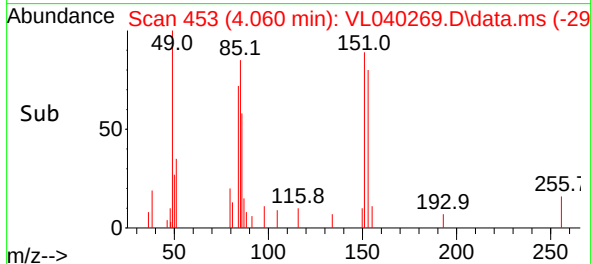
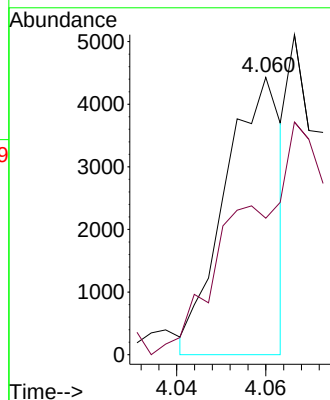
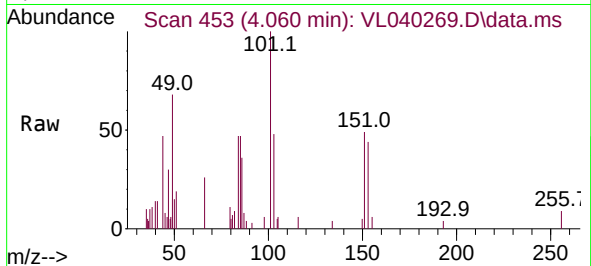




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.038 ppbv
RT: 4.060 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

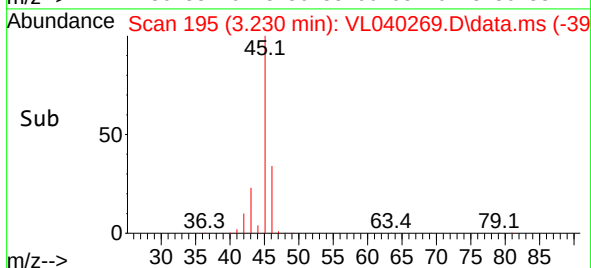
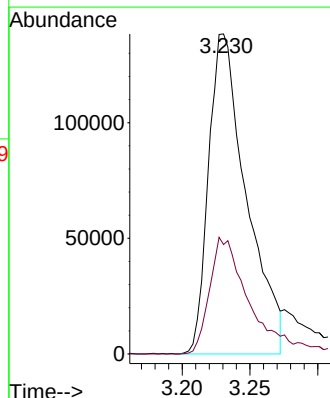
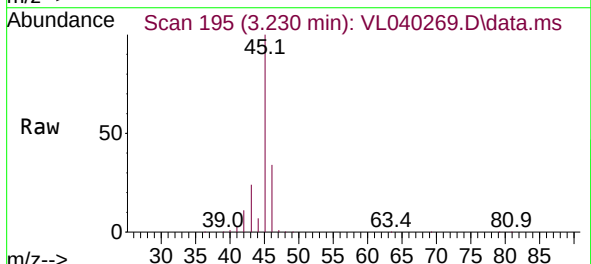
Instrument :
MSVOA_1
ClientSampleId :
BASEMENT-FRONT

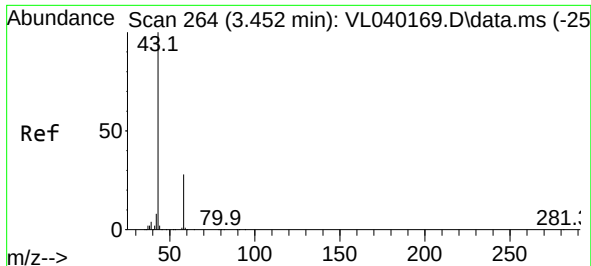
Tgt Ion:101 Resp: 3882
Ion Ratio Lower Upper
101 100
151 0.0 54.7 82.1#



#13
Ethanol
Concen: 73.043 ppbv
RT: 3.230 min Scan# 195
Delta R.T. 0.000 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 45 Resp: 268587
Ion Ratio Lower Upper
45 100
46 40.2 13.3 53.1

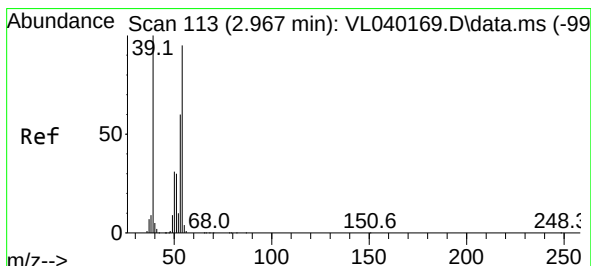
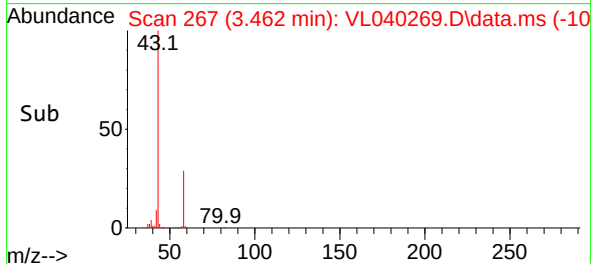
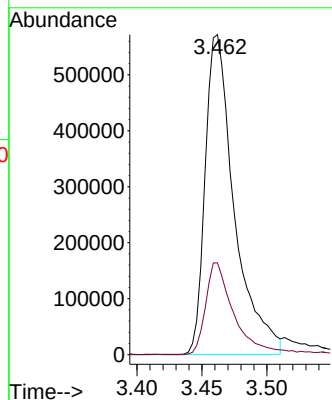
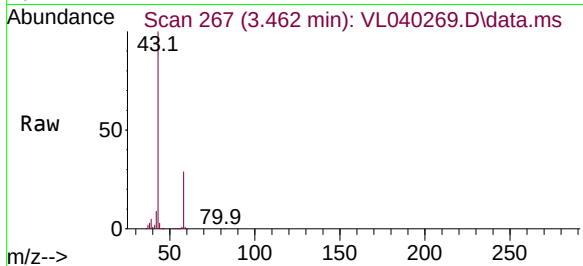




#15
Acetone
Concen: 9.045 ppbv
RT: 3.462 min Scan# 20
Delta R.T. 0.006 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

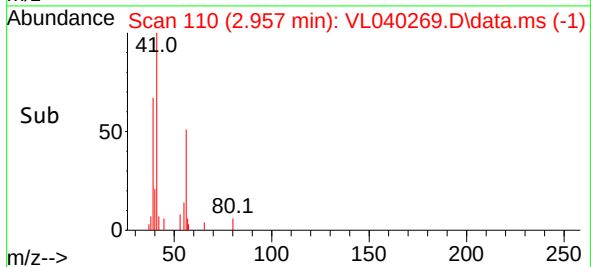
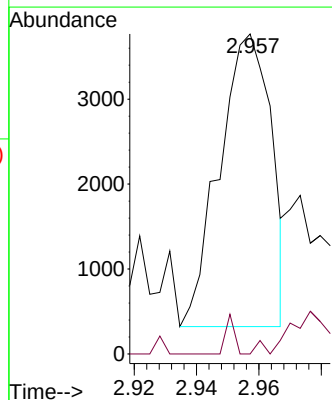
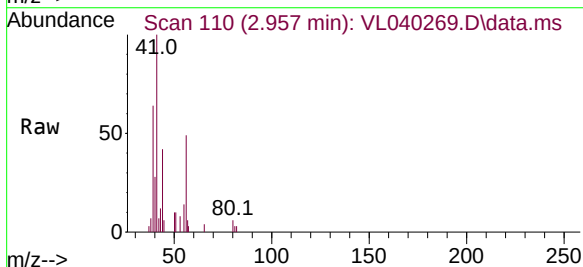
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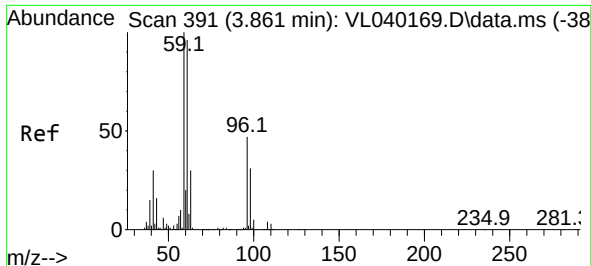
Tgt Ion: 43 Resp: 893265
Ion Ratio Lower Upper
43 100
58 29.6 22.4 33.6



#16
1,3-Butadiene
Concen: 0.088 ppbv
RT: 2.957 min Scan# 110
Delta R.T. -0.013 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 39 Resp: 3986
Ion Ratio Lower Upper
39 100
54 26.2 66.7 100.1#





#17

tert-Butyl alcohol

Concen: 0.079 ppbv

RT: 3.886 min Scan# 391

Delta R.T. 0.019 min

Lab File: VL040269.D

Acq: 13 Mar 2023 17:46

Instrument :

MSVOA_1

ClientSampleId :

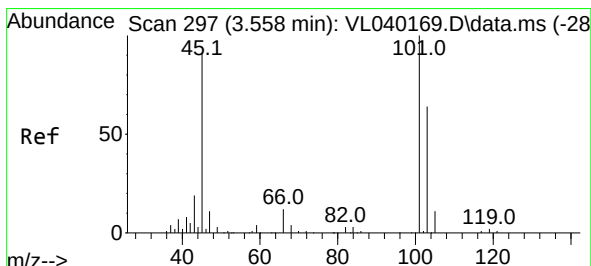
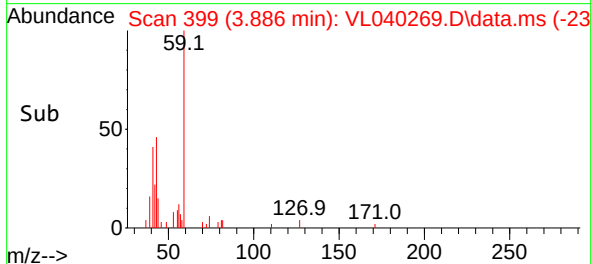
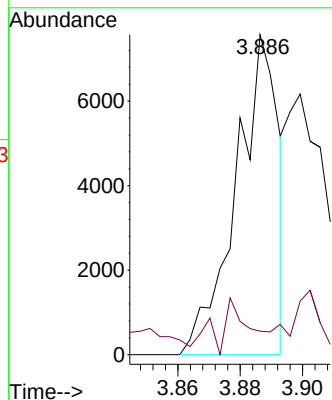
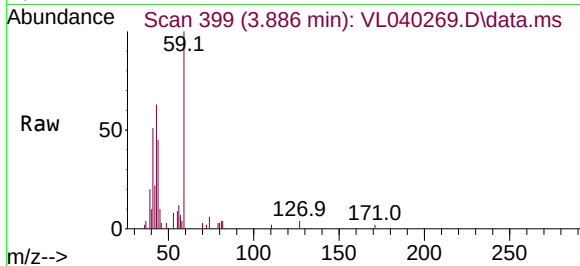
BASEMENT-FRONT

Tgt Ion: 59 Resp: 7092

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#19

Isopropyl Alcohol

Concen: 0.524 ppbv

RT: 3.575 min Scan# 302

Delta R.T. 0.013 min

Lab File: VL040269.D

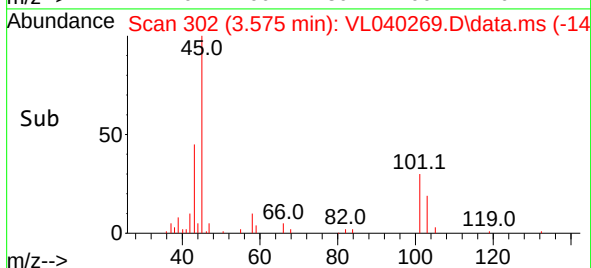
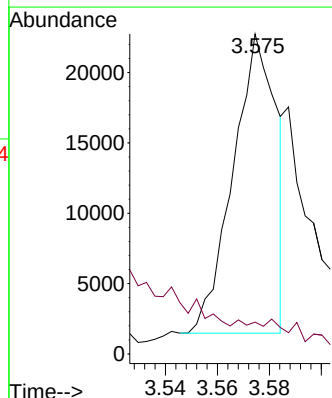
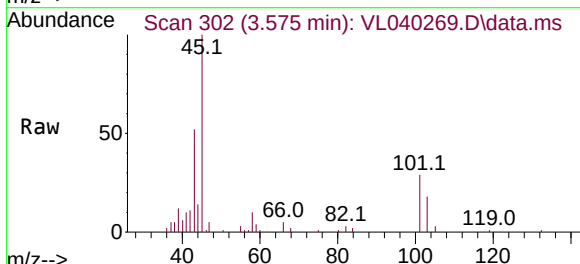
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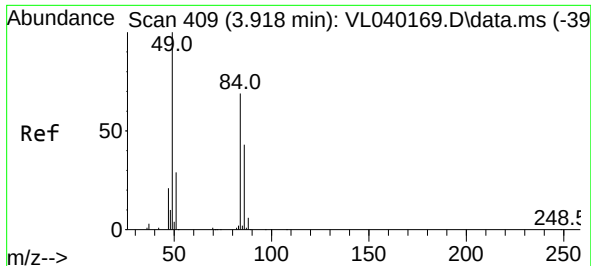
Tgt Ion: 45 Resp: 24618

Ion Ratio Lower Upper

45 100

58 1075.3 2.6 3.8#

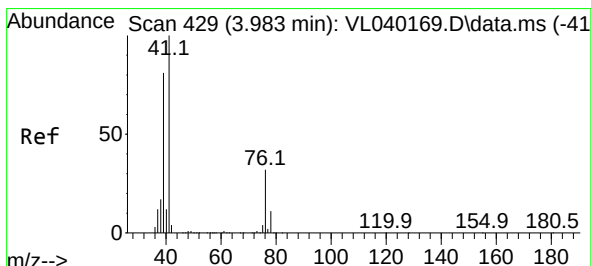
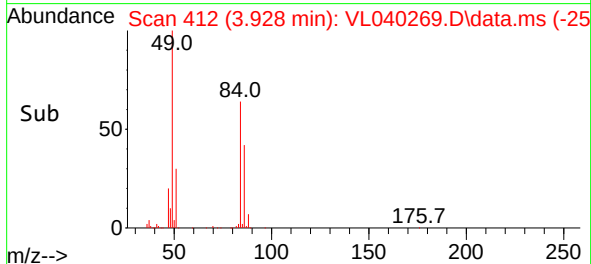
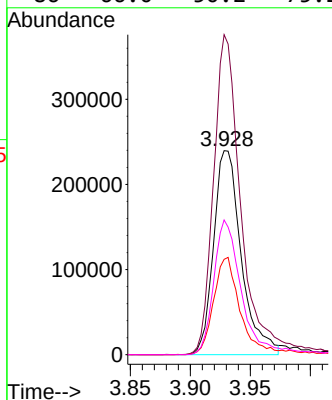
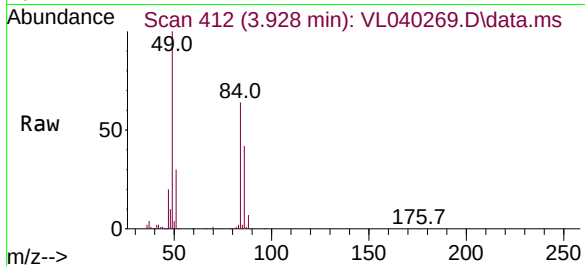




#20
Methylene Chloride
Concen: 7.480 ppbv
RT: 3.928 min Scan# 412
Delta R.T. 0.006 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

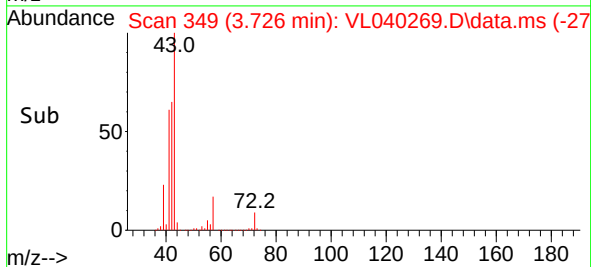
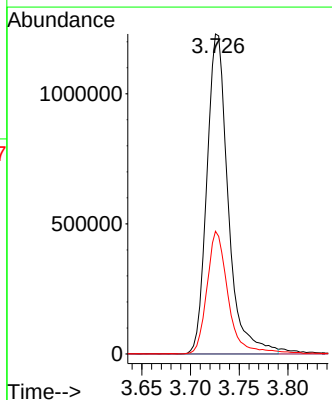
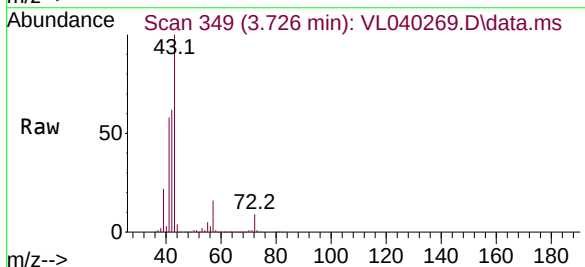
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONT

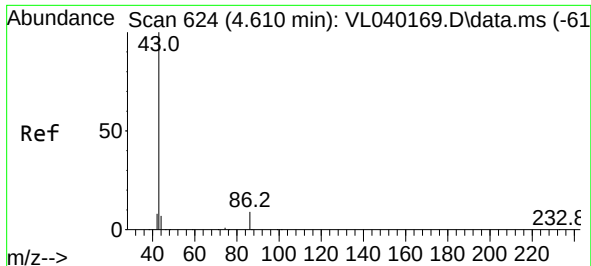
Tgt Ion: 84 Resp: 384545
Ion Ratio Lower Upper
84 100
49 156.7 115.5 173.3
51 46.6 33.1 49.7
86 66.0 50.2 75.2



#21
Allyl Chloride
Concen: 30.824 ppbv
RT: 3.726 min Scan# 349
Delta R.T. -0.260 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 41 Resp: 1867032
Ion Ratio Lower Upper
41 100
76 0.0 25.5 38.3#
39 38.6 64.5 96.7#

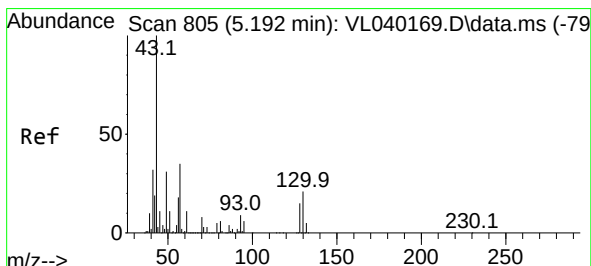
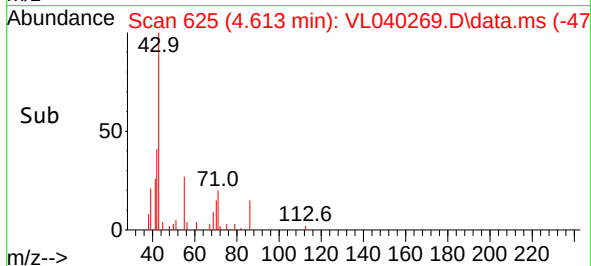
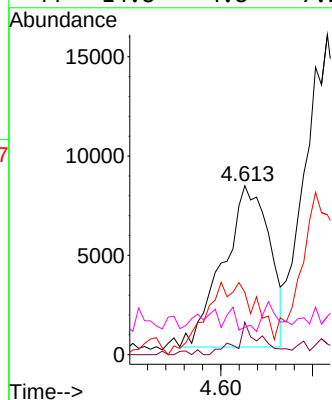
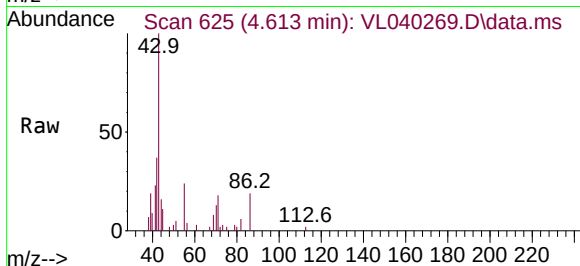




#23
 Vinyl Acetate
 Concen: 0.475 ppbv
 RT: 4.613 min Scan# 61
 Delta R.T. -0.006 min
 Lab File: VL040269.D
 Acq: 13 Mar 2023 17:46

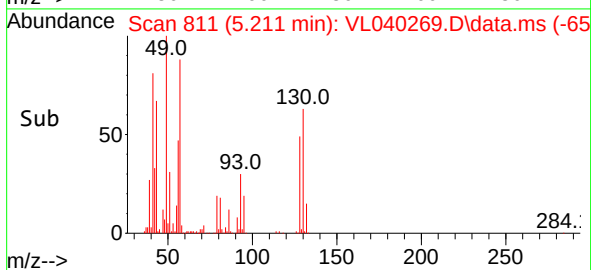
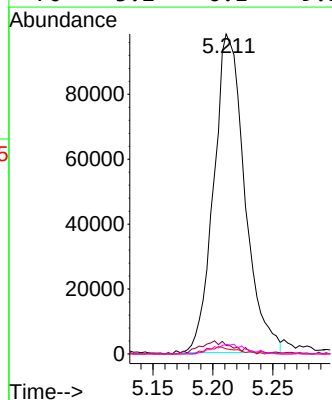
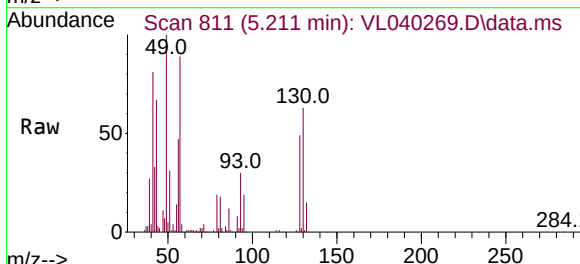
Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-FRONT

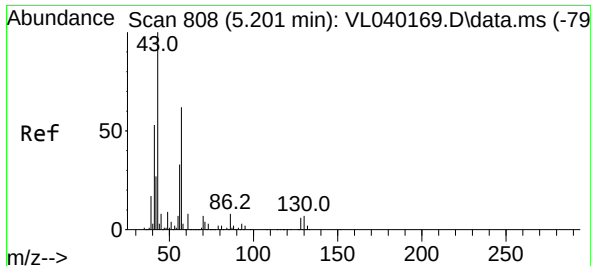
Tgt Ion:	43	Resp:	14241
Ion	Ratio	Lower	Upper
43	100		
86	21.4	5.6	8.4#
42	41.5	7.6	11.4#
44	14.8	4.8	7.2#



#25
 Ethyl Acetate
 Concen: 0.959 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.013 min
 Lab File: VL040269.D
 Acq: 13 Mar 2023 17:46

Tgt Ion:	43	Resp:	175966
Ion	Ratio	Lower	Upper
43	100		
45	5.1	8.3	12.5#
61	2.2	8.4	12.6#
70	3.2	6.1	9.1#

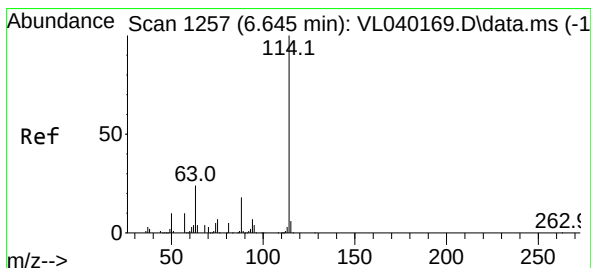
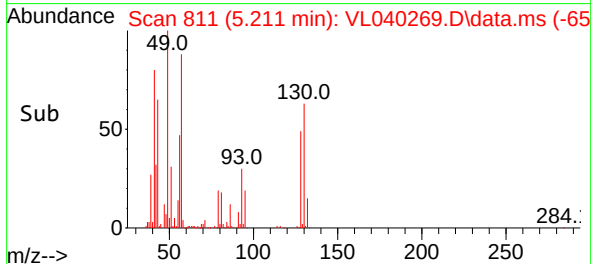
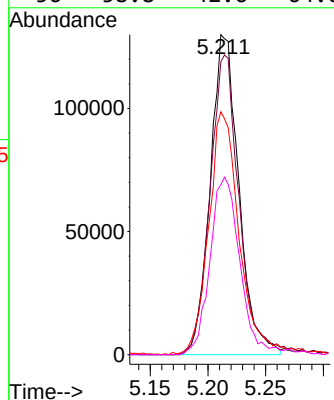
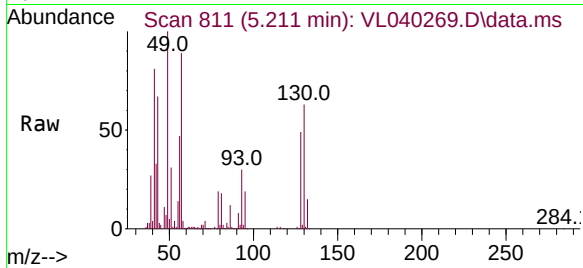




#26
Hexane
Concen: 2.838 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.003 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

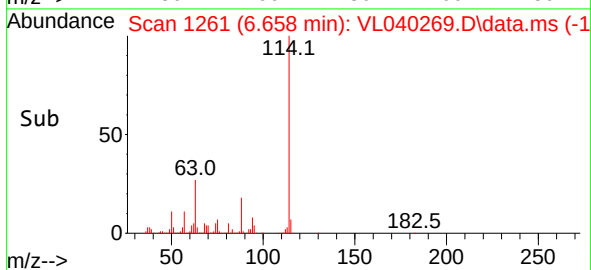
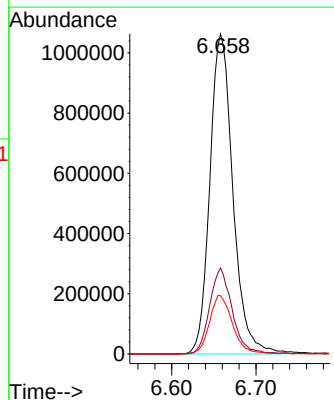
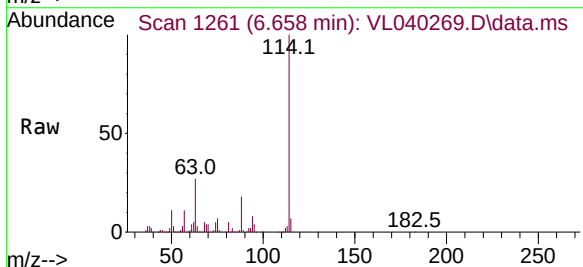
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONT

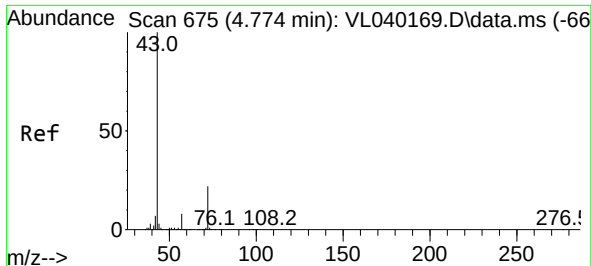
Tgt Ion: 57 Resp: 223625
Ion Ratio Lower Upper
57 100
41 97.5 74.3 111.5
43 82.8 193.0 289.4#
56 58.8 42.6 64.0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. 0.003 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 114 Resp: 2016031
Ion Ratio Lower Upper
114 100
63 26.6 20.4 30.6
88 18.3 14.3 21.5

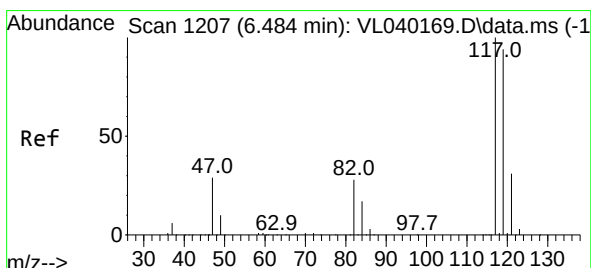
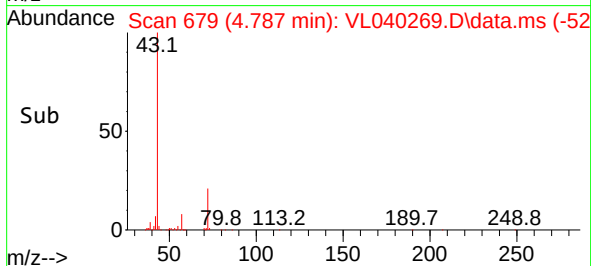
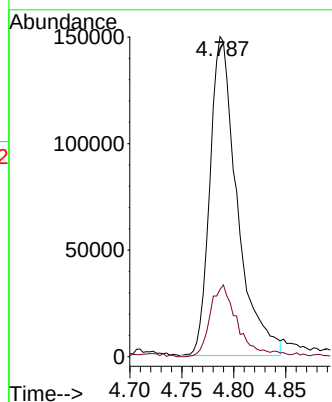
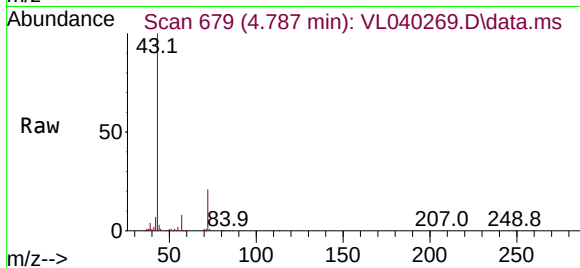




#34
2-Butanone
Concen: 2.742 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

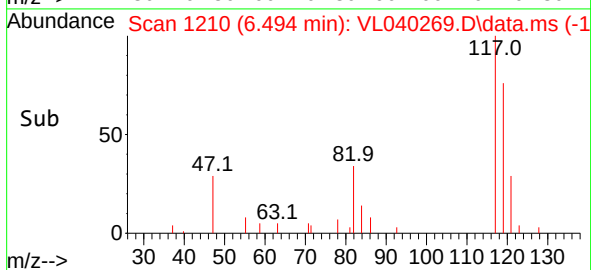
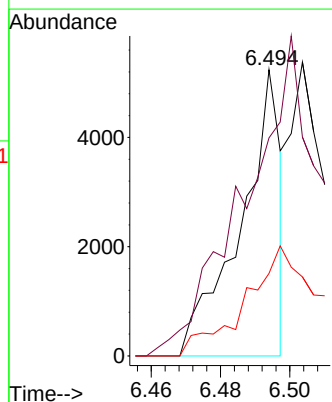
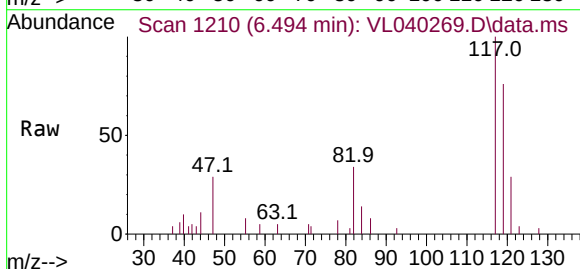
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONT

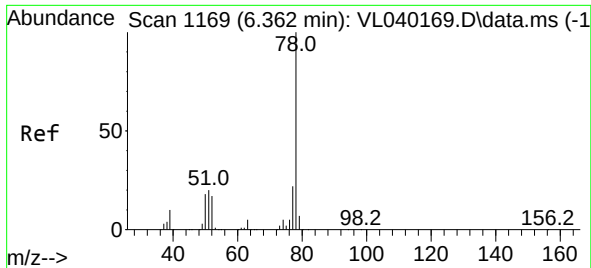
Tgt Ion: 43 Resp: 272651
Ion Ratio Lower Upper
43 100
72 24.0 17.8 26.8



#35
Carbon Tetrachloride
Concen: 0.035 ppbv
RT: 6.494 min Scan# 1210
Delta R.T. 0.003 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 117 Resp: 4177
Ion Ratio Lower Upper
117 100
119 67.1 75.0 112.6#
121 28.8 25.0 37.4





#36

Benzene

Concen: 0.115 ppbv

RT: 6.375 min Scan# 1169

Delta R.T. 0.006 min

Lab File: VL040269.D

Acq: 13 Mar 2023 17:46

Instrument :

MSVOA_1

ClientSampleId :

BASEMENT-FRONT

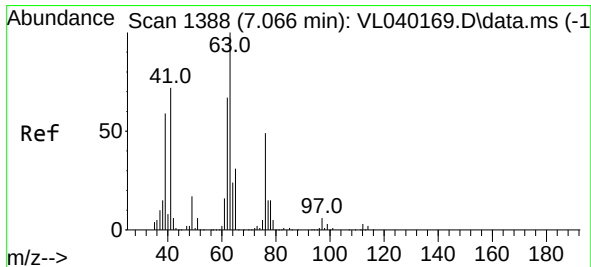
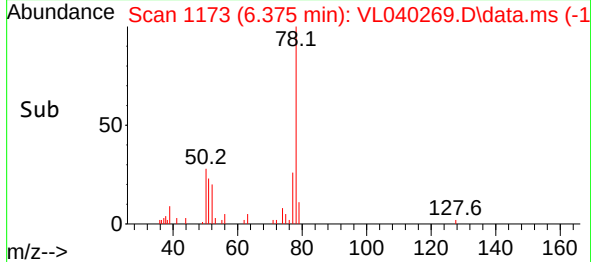
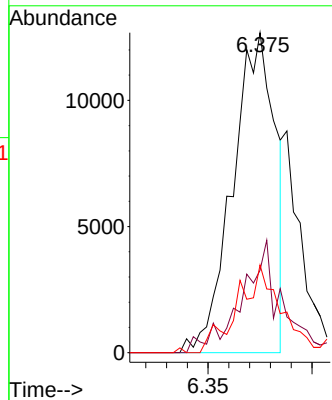
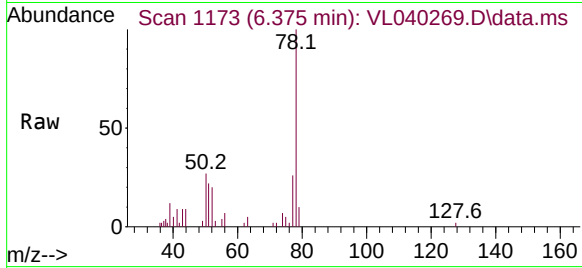
Tgt Ion: 78 Resp: 18040

Ion Ratio Lower Upper

78 100

77 25.8 17.5 26.3

50 25.9 14.6 22.0#



#39

1,2-Dichloropropane

Concen: 8.647 ppbv

RT: 6.658 min Scan# 1261

Delta R.T. -0.415 min

Lab File: VL040269.D

Acq: 13 Mar 2023 17:46

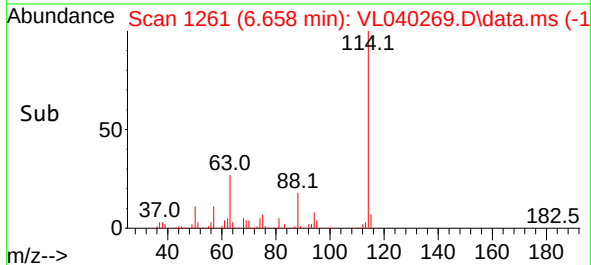
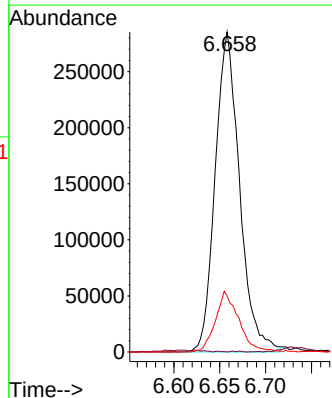
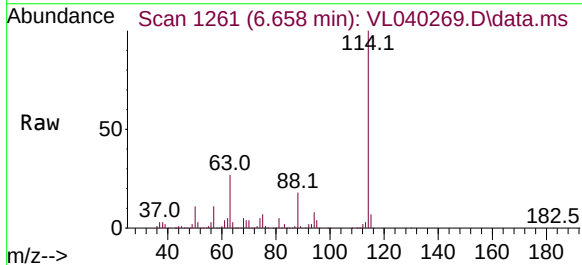
Tgt Ion: 63 Resp: 527723

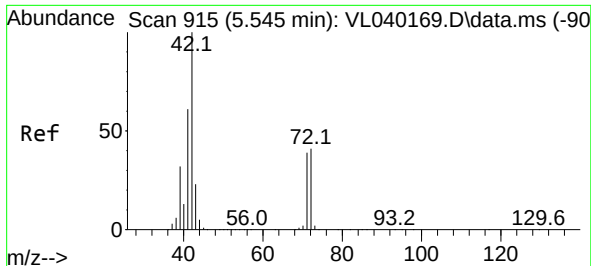
Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 17.5 54.0 81.0#





#41

Tetrahydrofuran

Concen: 0.483 ppbv

RT: 5.568 min Scan# 915

Delta R.T. 0.016 min

Lab File: VL040269.D

Acq: 13 Mar 2023 17:46

Instrument :

MSVOA_L

ClientSampleId :

BASEMENT-FRONT

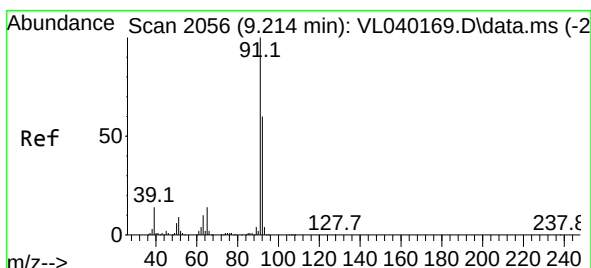
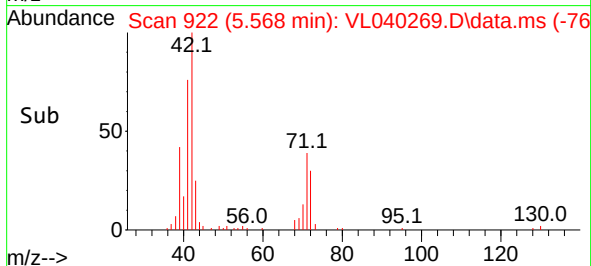
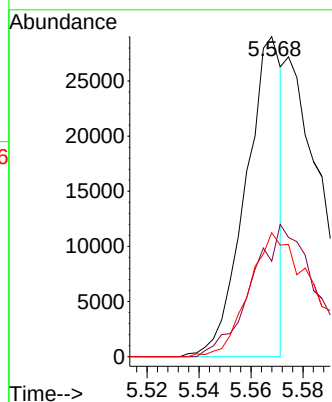
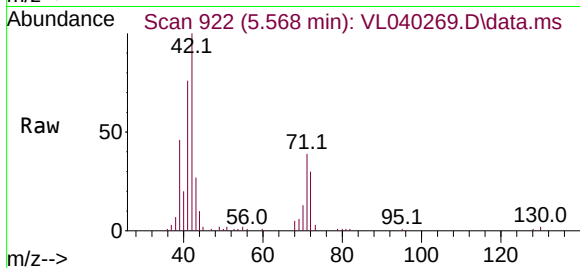
Tgt Ion: 42 Resp: 27831

Ion Ratio Lower Upper

42 100

72 0.0 33.0 49.4#

71 77.7 31.4 47.2#



#53

Toluene

Concen: 4.187 ppbv

RT: 9.230 min Scan# 2061

Delta R.T. 0.006 min

Lab File: VL040269.D

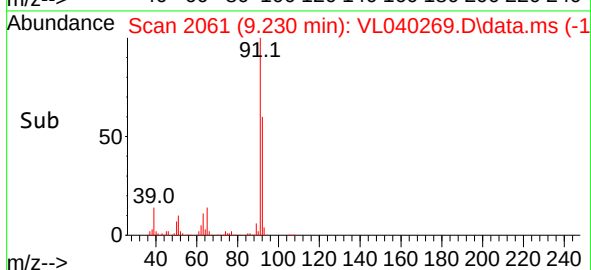
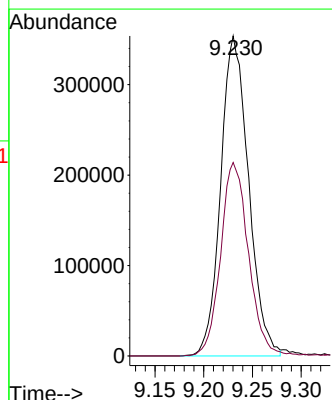
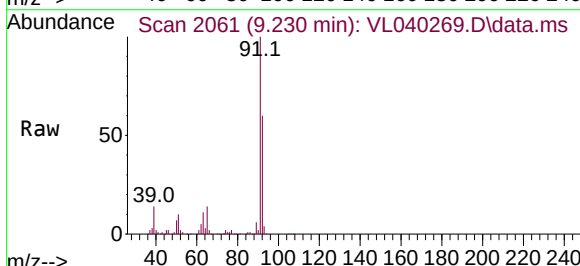
Acq: 13 Mar 2023 17:46

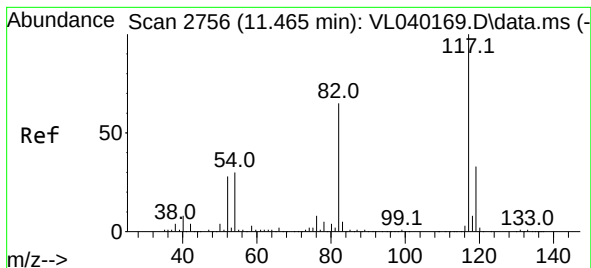
Tgt Ion: 91 Resp: 703527

Ion Ratio Lower Upper

91 100

92 61.1 48.9 73.3

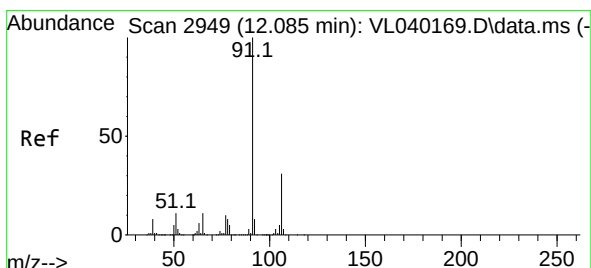
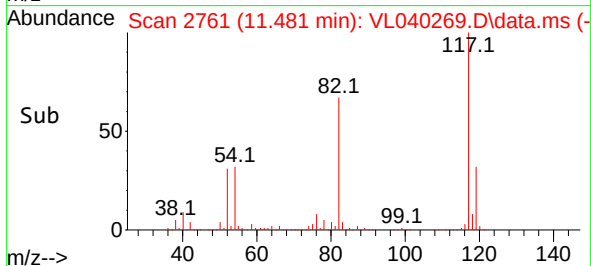
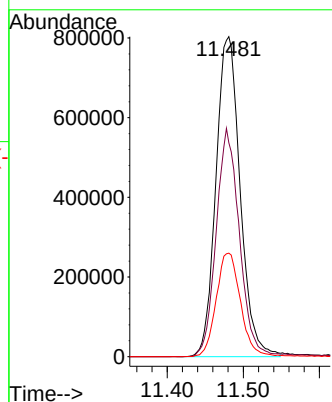
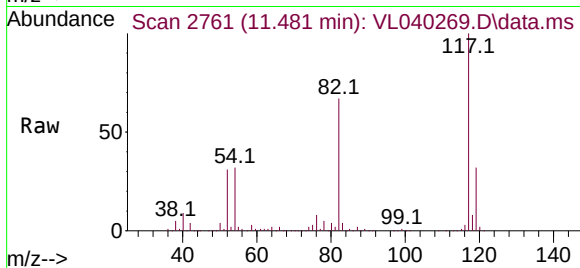




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

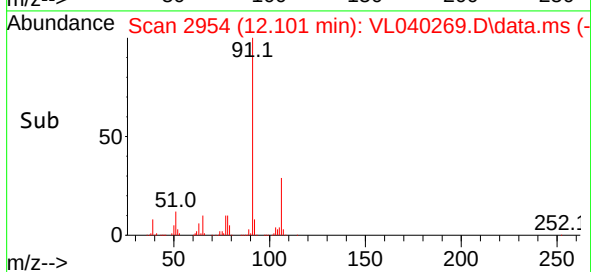
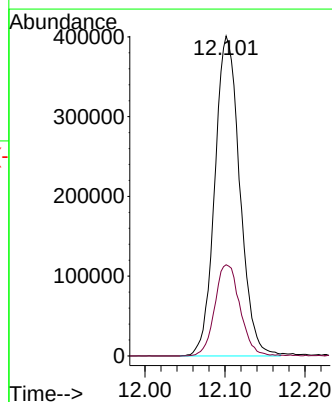
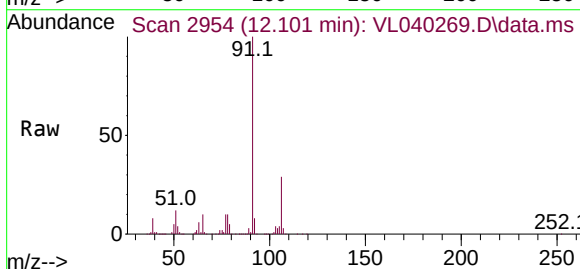
Instrument :
MSVOA_L
ClientSampleId :
BASEMENT-FRONT

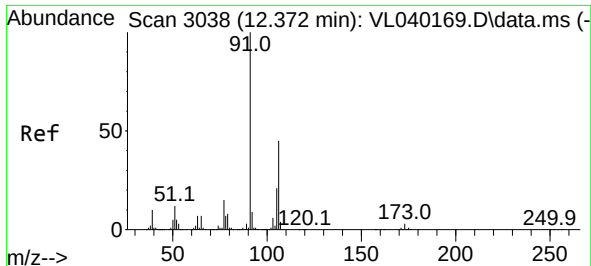
Tgt Ion:117 Resp: 1778609
Ion Ratio Lower Upper
117 100
82 69.6 53.3 79.9
119 32.7 24.6 37.0



#58
Ethyl Benzene
Concen: 4.024 ppbv
RT: 12.101 min Scan# 2954
Delta R.T. 0.006 min
Lab File: VL040269.D
Acq: 13 Mar 2023 17:46

Tgt Ion: 91 Resp: 869662
Ion Ratio Lower Upper
91 100
106 28.5 24.9 37.3





#59

m/p-Xylene

Concen: 11.782 ppbv

RT: 12.355 min Scan# 3033

Delta R.T. -0.026 min

Lab File: VL040269.D

Acq: 13 Mar 2023 17:46

Instrument :

MSVOA_1

ClientSampleId :

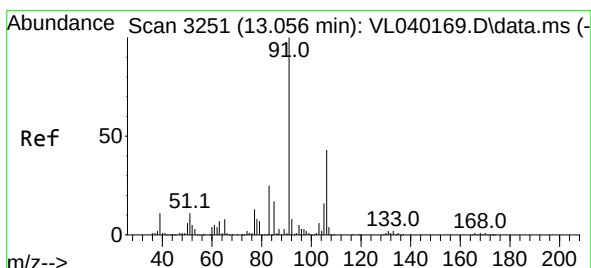
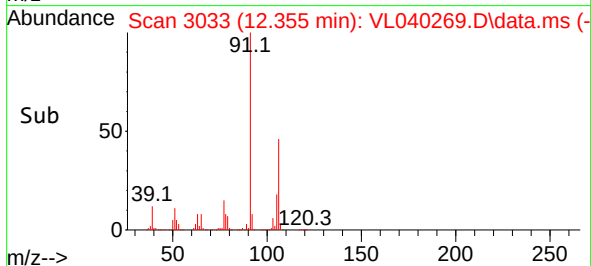
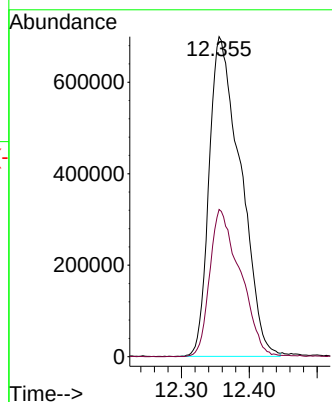
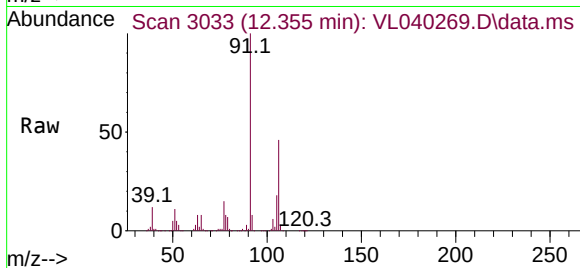
BASEMENT-FRONT

Tgt Ion: 91 Resp: 2255105

Ion Ratio Lower Upper

91 100

106 45.1 34.6 51.8



#60

o-Xylene

Concen: 0.923 ppbv

RT: 13.076 min Scan# 3257

Delta R.T. 0.010 min

Lab File: VL040269.D

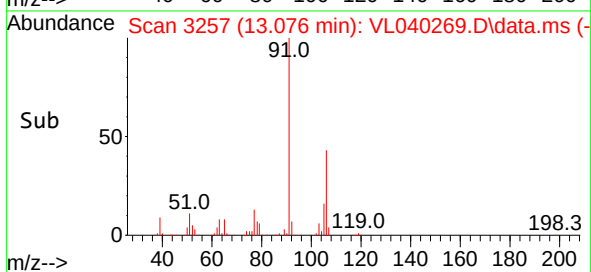
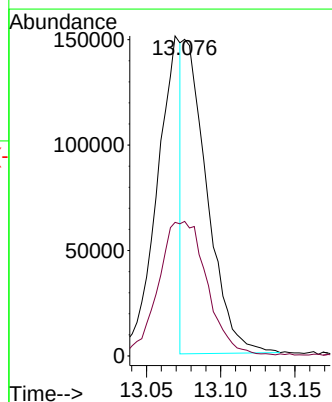
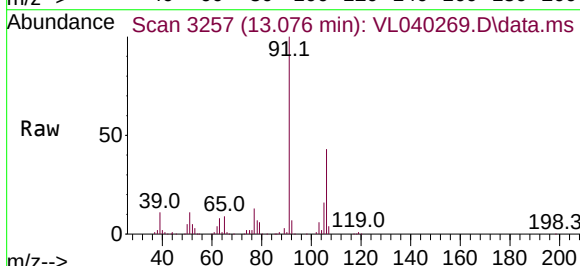
Acq: 13 Mar 2023 17:46

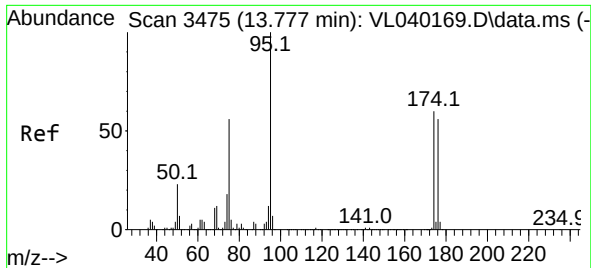
Tgt Ion: 91 Resp: 169971

Ion Ratio Lower Upper

91 100

106 86.7 21.6 65.0#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.256 ppbv
 RT: 13.793 min Scan# 34
 Delta R.T. 0.010 min
 Lab File: VL040269.D
 Acq: 13 Mar 2023 17:46

Instrument :
 MSVOA_L
 ClientSampleId :
 BASEMENT-FRONT

Tgt Ion: 95 Resp: 1499994
 Ion Ratio Lower Upper
 95 100
 174 57.7 48.2 72.2
 175 4.1 3.4 5.2

