

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111523\
 Data File : VL040869.D
 Acq On : 15 Nov 2023 15:08
 Operator : SY/MD
 Sample : 05277-01DUP 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 NT-SS-2DUP

Quant Time: Nov 16 05:52:49 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111323AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Nov 13 15:42:46 2023
 Response via : Initial Calibration

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

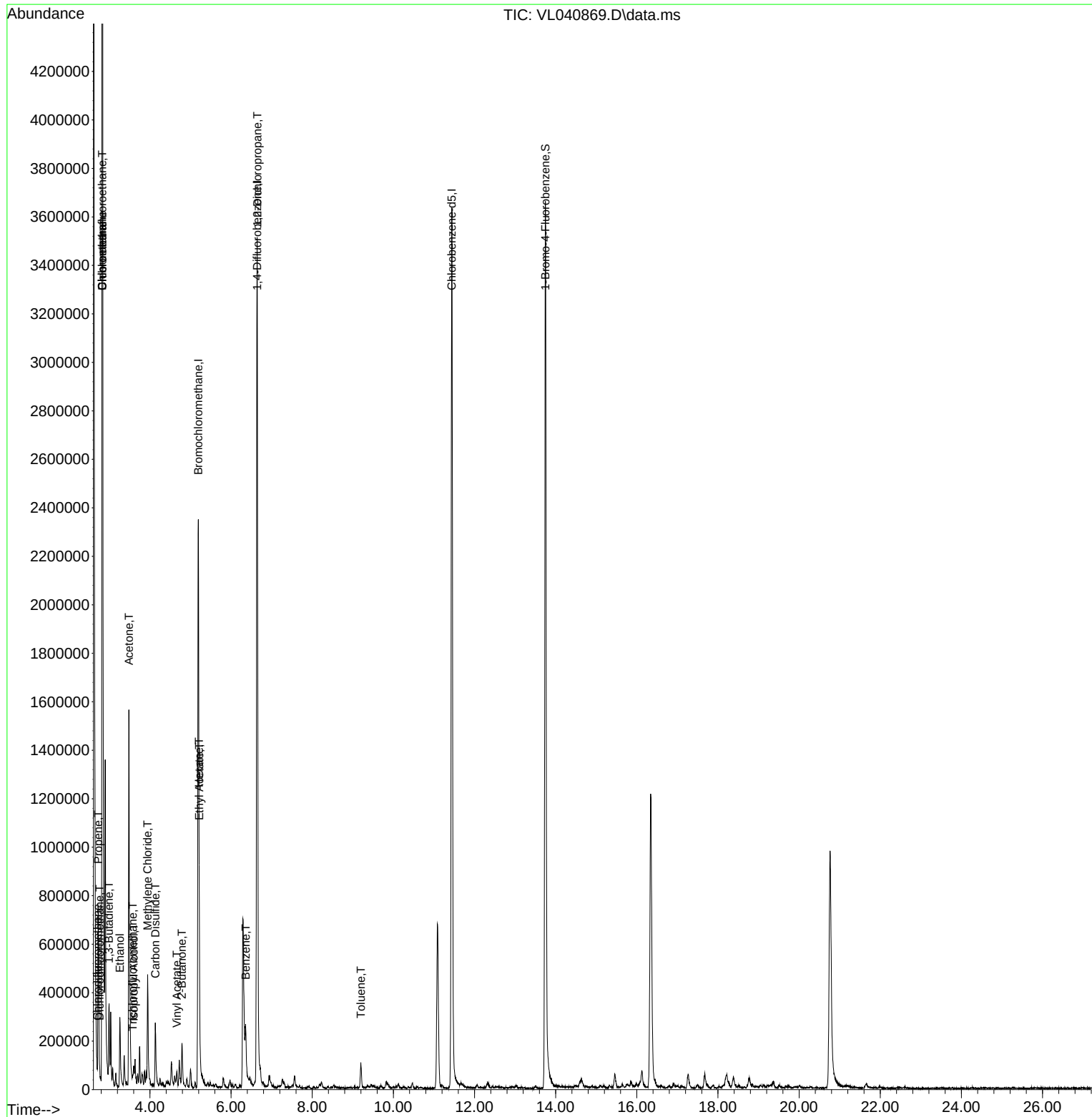
Internal Standards						
1) Bromochloromethane	5.192	49	1058431	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.642	114	2717865	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2439493	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.747	95	1926560	10.087	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	22454	0.105	ppbv	94
3) Chlorodifluoromethane	2.706	51	27634	0.164	ppbv #	79
4) Chloromethane	2.825	50	192058	3.161	ppbv #	45
7) Chloroethane	2.825	64	875544	41.837	ppbv	89
8) Dichlorotetrafluoroethane	2.825	85	1203356	7.767	ppbv #	15
9) Propene	2.725	41	292367	5.134	ppbv	92
11) Trichlorofluoromethane	3.574	101	10089	0.061	ppbv #	68
13) Ethanol	3.259	45	277488	25.092	ppbv #	100
15) Acetone	3.481	43	1562388	13.860	ppbv	92
16) 1,3-Butadiene	2.989	39	104190	1.827	ppbv #	35
19) Isopropyl Alcohol	3.600	45	63831	0.941	ppbv #	1
20) Methylene Chloride	3.944	84	136229	2.928	ppbv	95
23) Vinyl Acetate	4.664	43	31504	0.216	ppbv #	62
25) Ethyl Acetate	5.214	43	144546	0.619	ppbv #	78
26) Hexane	5.211	57	204247	1.977	ppbv #	40
27) Carbon Disulfide	4.134	76	289307	2.209	ppbv	97
34) 2-Butanone	4.790	43	196922	1.422	ppbv	94
36) Benzene	6.359	78	139473	0.632	ppbv	94
39) 1,2-Dichloropropane	6.645	63	671933	7.683	ppbv #	23
53) Toluene	9.198	91	73741	0.304	ppbv	99

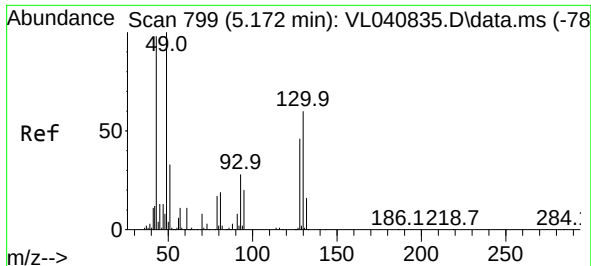
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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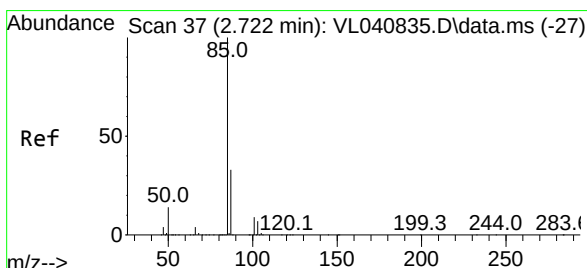
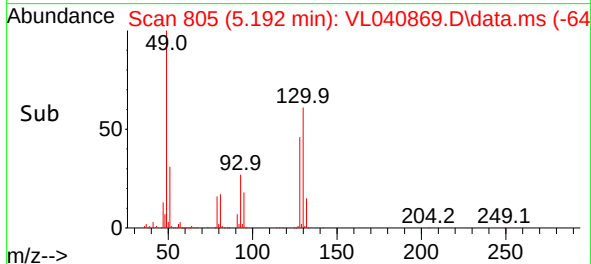
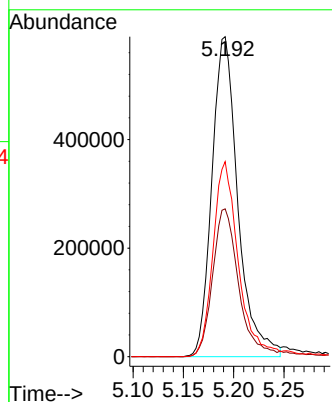
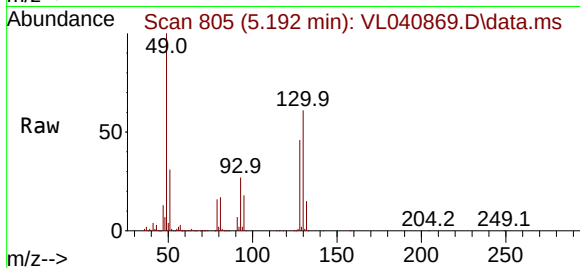




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.020 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

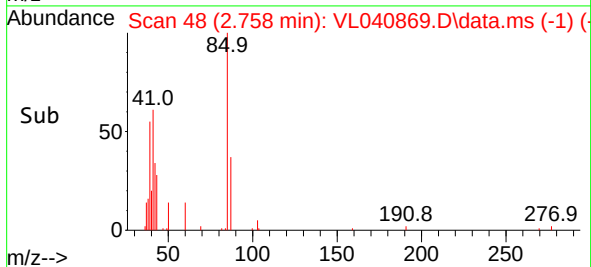
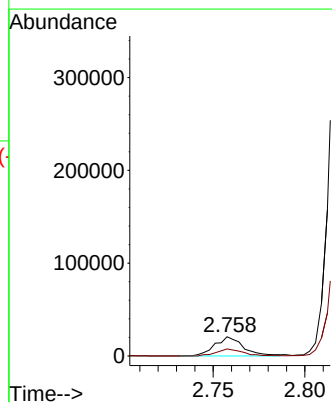
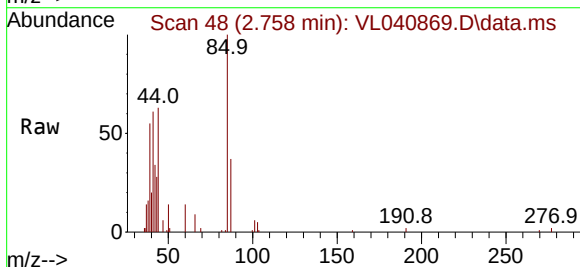
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

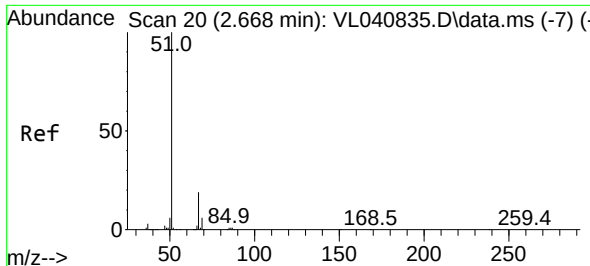
Tgt Ion: 49 Resp: 1058431
Ion Ratio Lower Upper
49 100
128 48.4 23.8 71.2
130 61.0 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.105 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.035 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 85 Resp: 22454
Ion Ratio Lower Upper
85 100
87 37.0 26.7 40.1

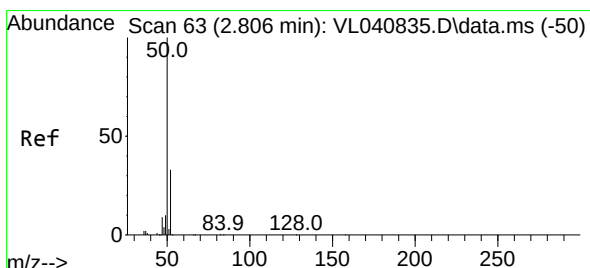
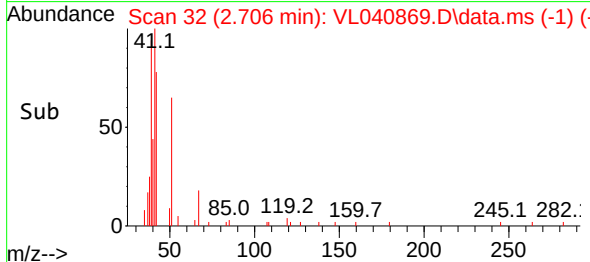
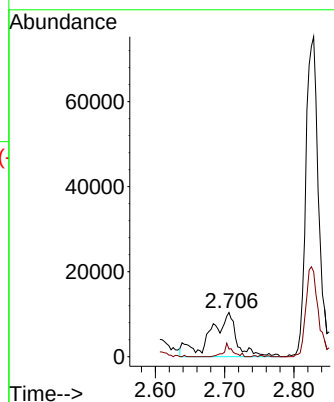
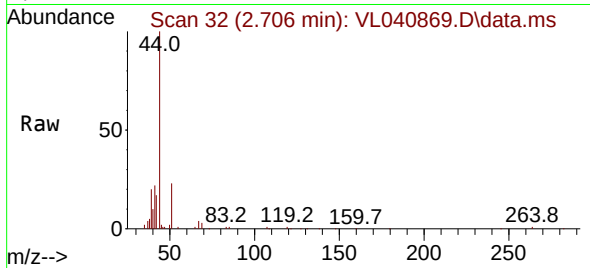




#3
Chlorodifluoromethane
Concen: 0.164 ppbv
RT: 2.706 min Scan# 31
Delta R.T. 0.038 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

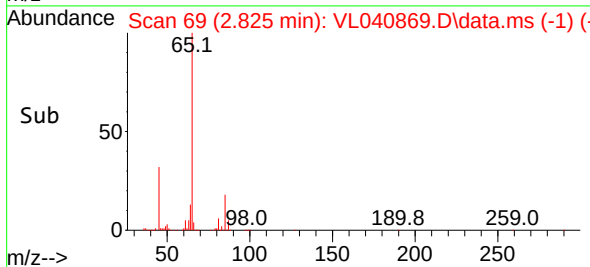
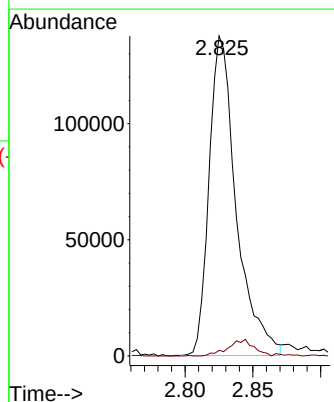
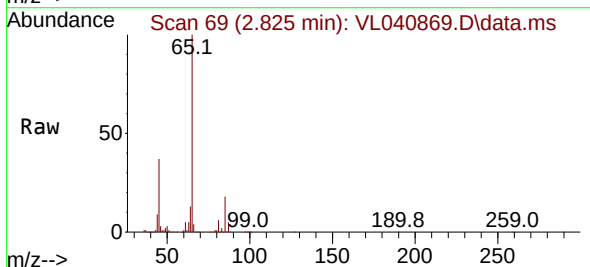
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

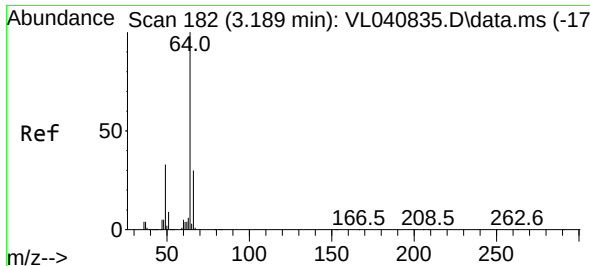
Tgt Ion: 51 Resp: 27634
Ion Ratio Lower Upper
51 100
67 9.5 15.0 22.4#



#4
Chloromethane
Concen: 3.161 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.019 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 50 Resp: 192058
Ion Ratio Lower Upper
50 100
52 1.8 26.5 39.7#

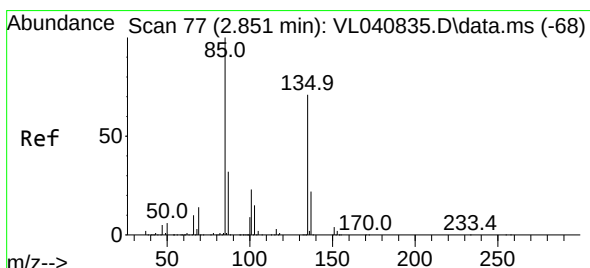
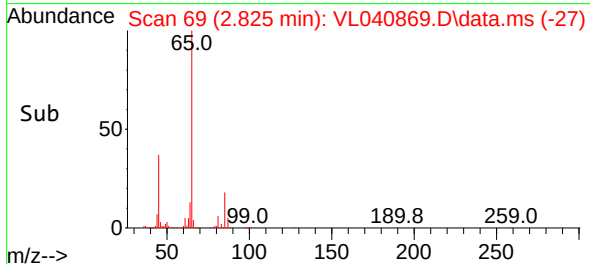
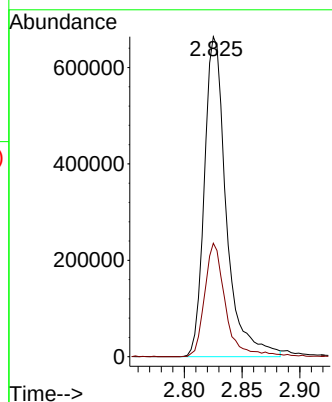
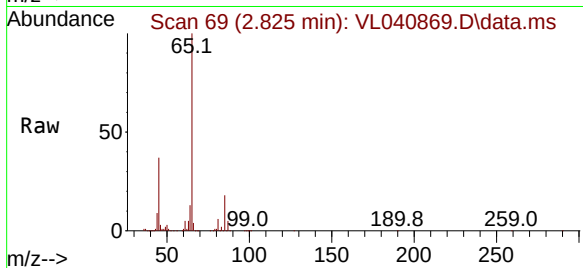




#7
Chloroethane
Concen: 41.837 ppbv
RT: 2.825 min Scan# 69
Delta R.T. -0.364 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

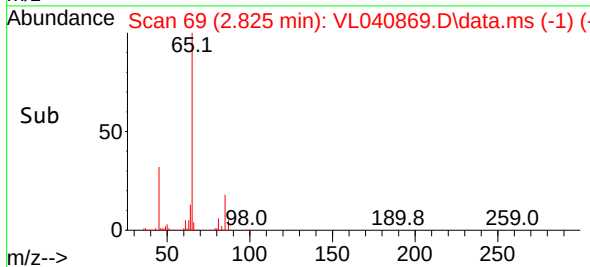
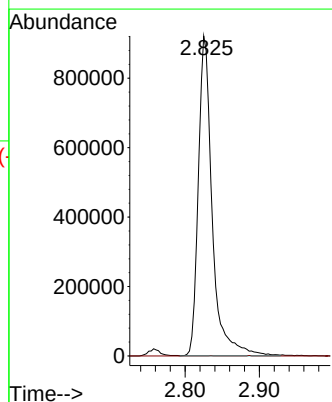
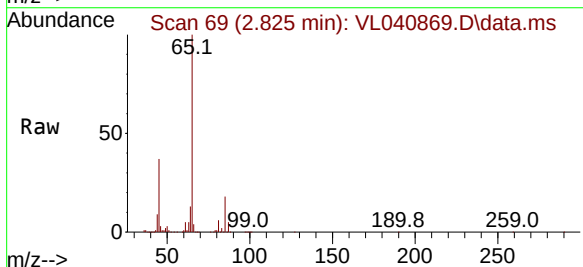
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

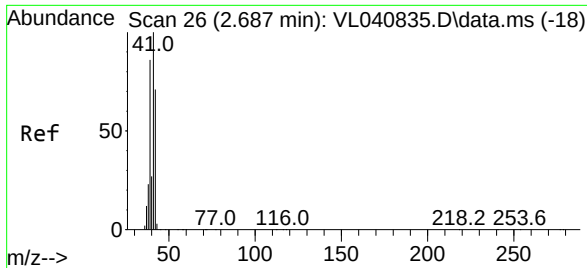
Tgt Ion: 64 Resp: 875544
Ion Ratio Lower Upper
64 100
66 35.4 23.8 35.6



#8
Dichlorotetrafluoroethane
Concen: 7.767 ppbv
RT: 2.825 min Scan# 69
Delta R.T. -0.026 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 85 Resp: 1203356
Ion Ratio Lower Upper
85 100
135 0.0 55.3 82.9#





#9

Propene

Concen: 5.134 ppbv

RT: 2.725 min Scan# 301

Delta R.T. 0.038 min

Lab File: VL040869.D

Acq: 15 Nov 2023 15:08

Instrument :

MSVOA_L

ClientSampleId :

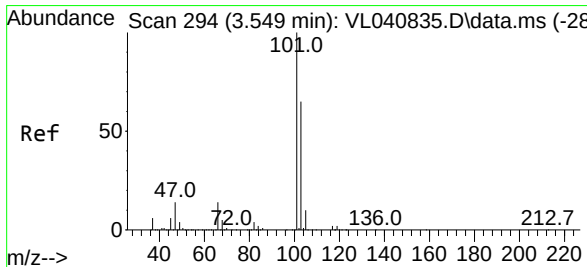
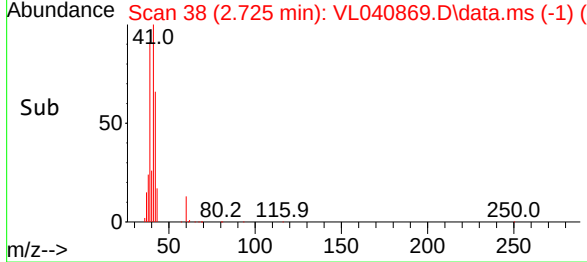
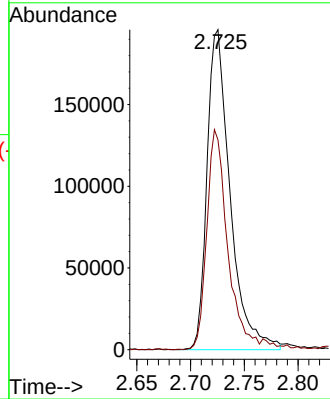
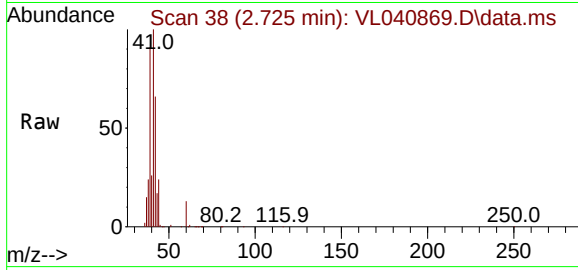
NT-SS-2DUP

Tgt Ion: 41 Resp: 292367

Ion Ratio Lower Upper

41 100

42 64.3 56.5 84.7



#11

Trichlorofluoromethane

Concen: 0.061 ppbv

RT: 3.574 min Scan# 302

Delta R.T. 0.026 min

Lab File: VL040869.D

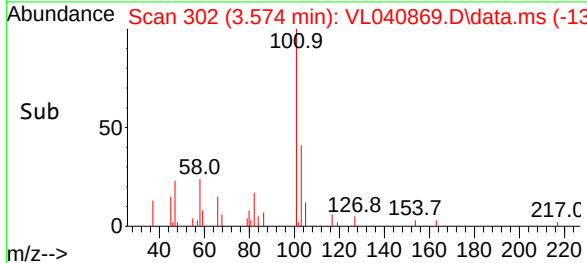
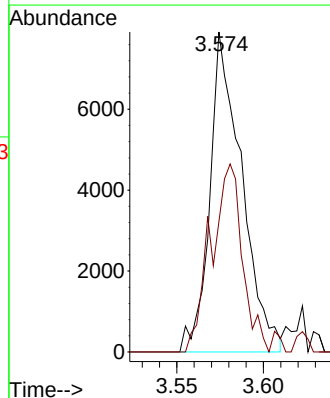
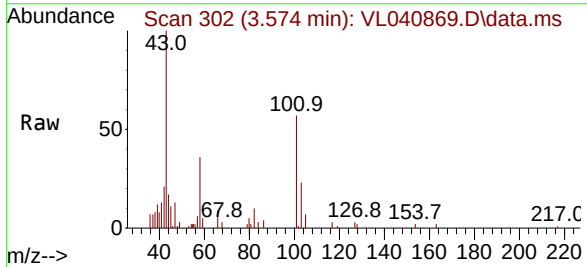
Acq: 15 Nov 2023 15:08

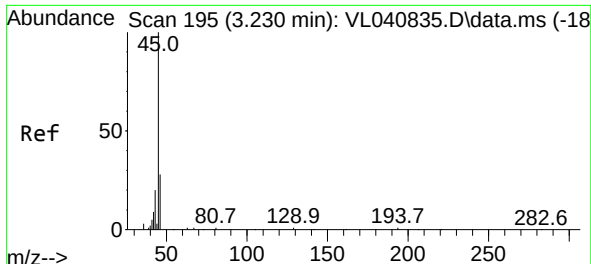
Tgt Ion: 101 Resp: 10089

Ion Ratio Lower Upper

101 100

103 39.9 51.8 77.8#

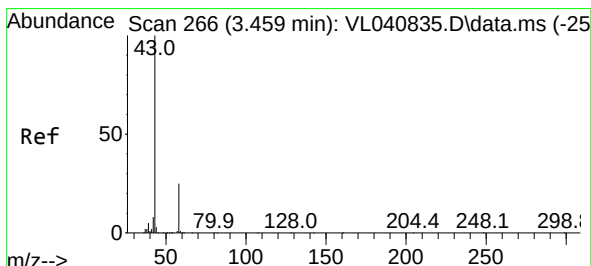
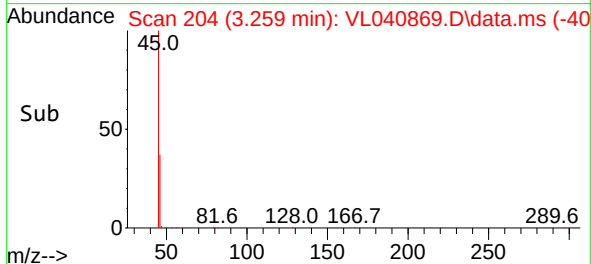
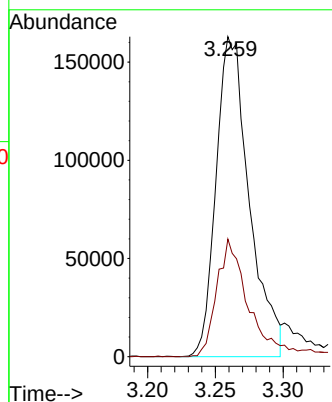
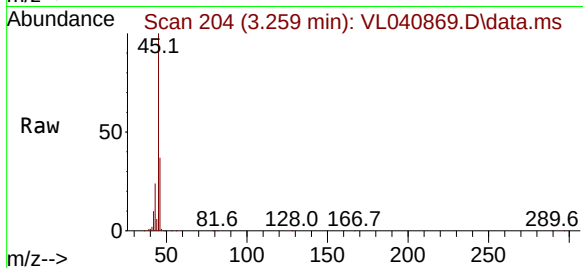




#13
Ethanol
Concen: 25.092 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.029 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

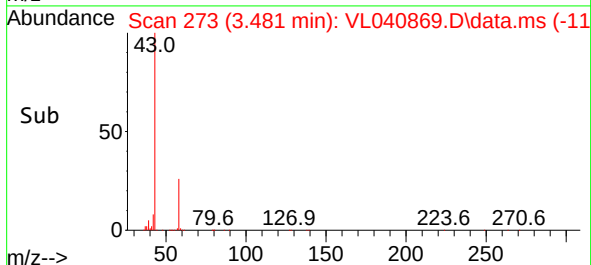
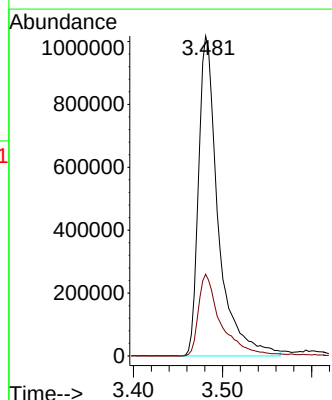
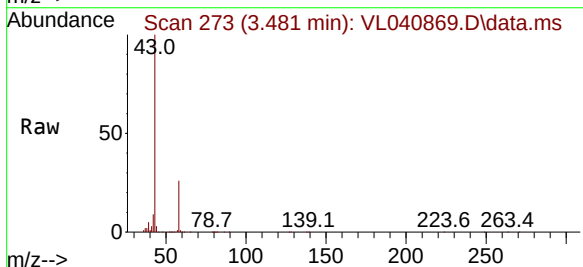
Instrument :
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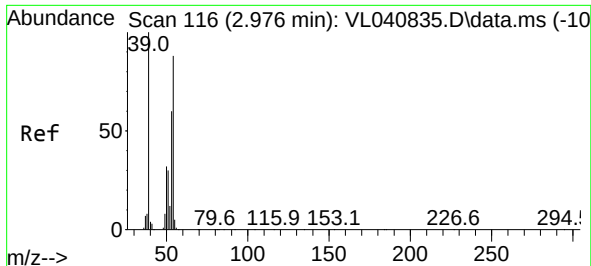
Tgt Ion: 45 Resp: 277488
Ion Ratio Lower Upper
45 100
46 37.2 0.0 0.0#



#15
Acetone
Concen: 13.860 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.022 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 43 Resp: 1562388
Ion Ratio Lower Upper
43 100
58 30.3 20.9 31.3

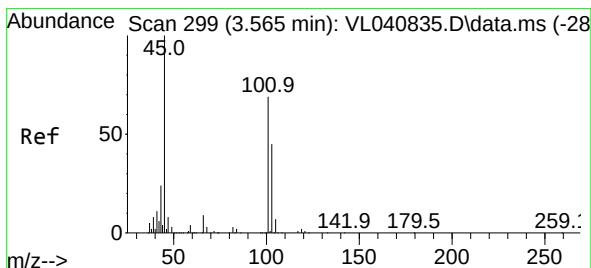
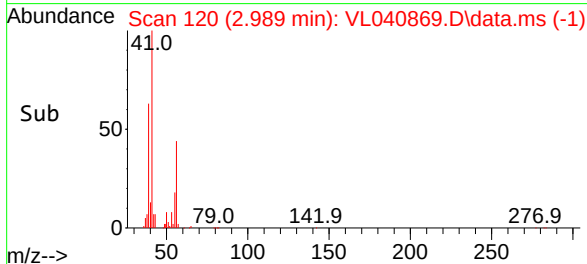
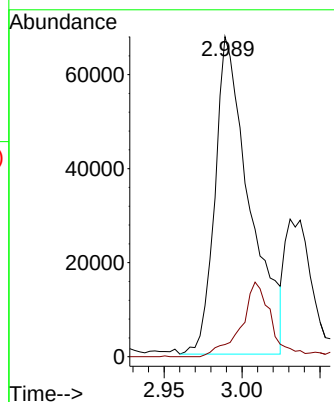
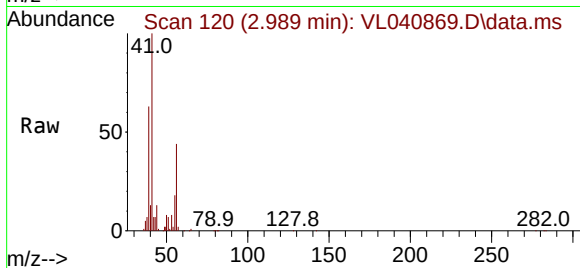




#16
1,3-Butadiene
Concen: 1.827 ppbv
RT: 2.989 min Scan# 116
Delta R.T. 0.013 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

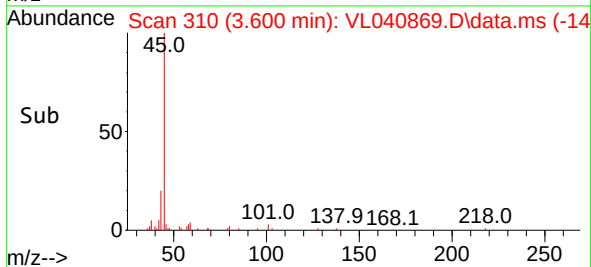
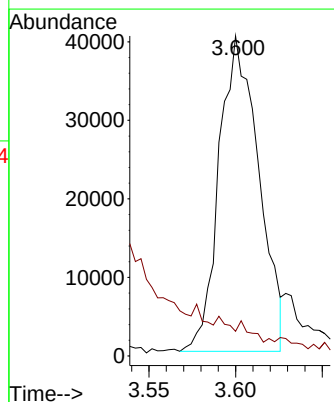
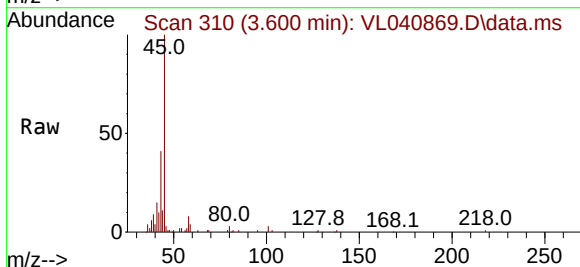
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MSVOA_L
ClientSampleId :
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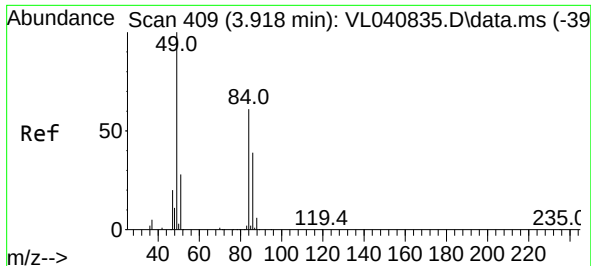
Tgt Ion: 39 Resp: 104190
Ion Ratio Lower Upper
39 100
54 21.2 61.8 92.6#



#19
Isopropyl Alcohol
Concen: 0.941 ppbv
RT: 3.600 min Scan# 310
Delta R.T. 0.035 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 45 Resp: 63831
Ion Ratio Lower Upper
45 100
58 740.5 1.6 2.4#



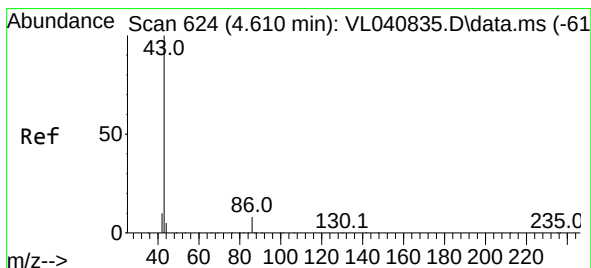
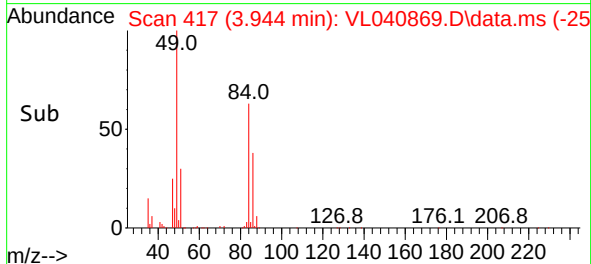
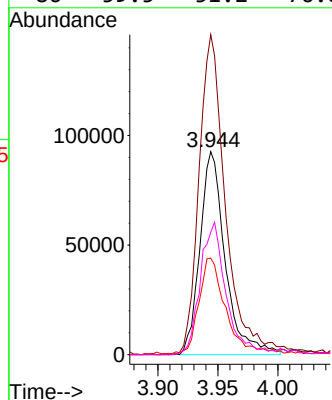
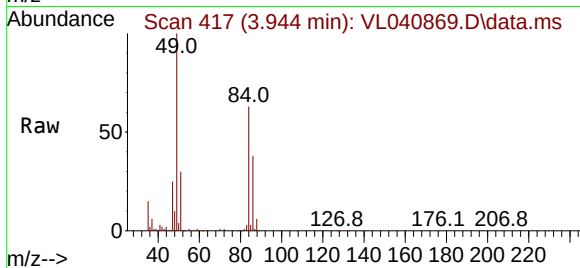


#20
Methylene Chloride
Concen: 2.928 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.026 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

Tgt Ion: 84 Resp: 136229

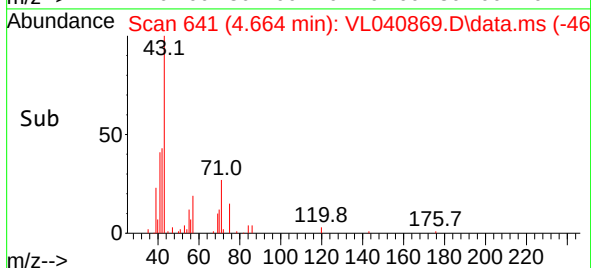
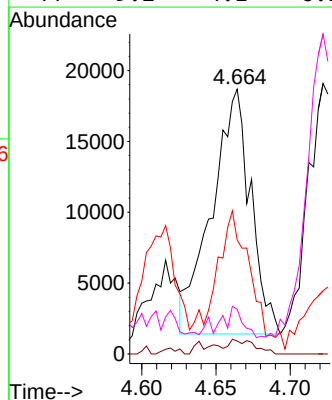
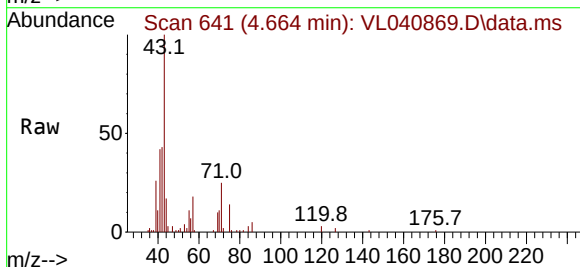
Ion	Ratio	Lower	Upper
84	100		
49	155.8	131.0	196.4
51	46.6	36.9	55.3
86	59.5	51.2	76.8

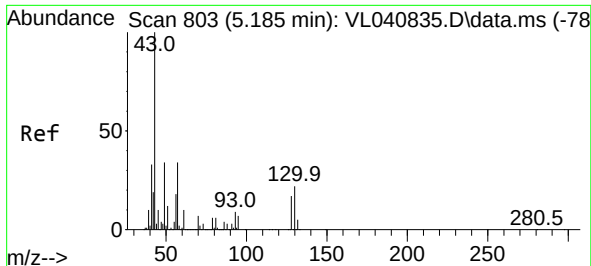


#23
Vinyl Acetate
Concen: 0.216 ppbv
RT: 4.664 min Scan# 641
Delta R.T. 0.054 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 43 Resp: 31504

Ion	Ratio	Lower	Upper
43	100		
86	5.3	5.5	8.3#
42	37.7	8.2	12.2#
44	9.2	4.1	6.1#

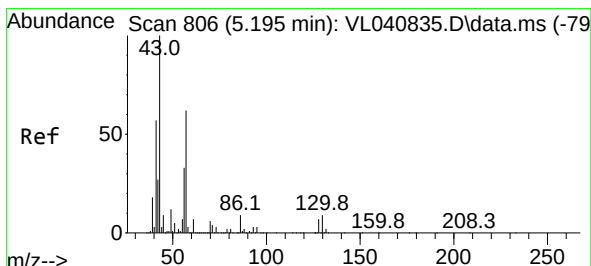
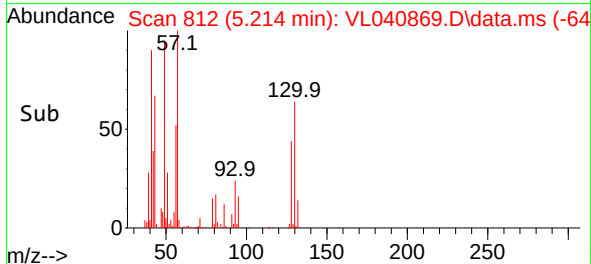
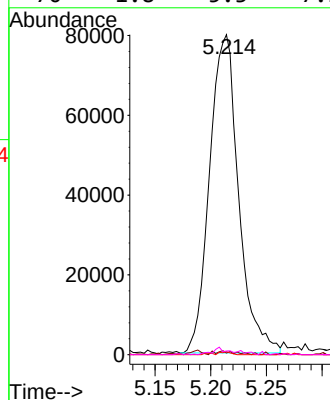
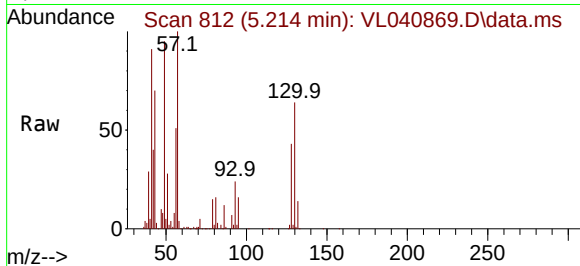




#25
Ethyl Acetate
Concen: 0.619 ppbv
RT: 5.214 min Scan# 811
Delta R.T. 0.029 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

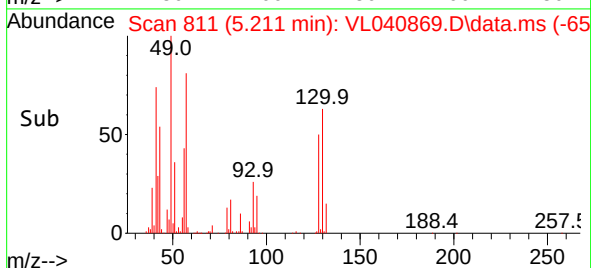
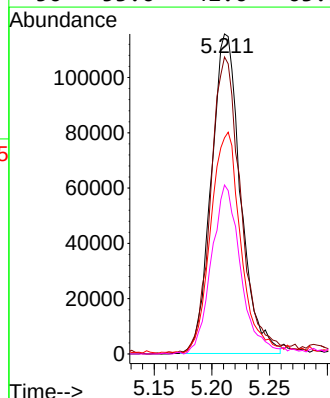
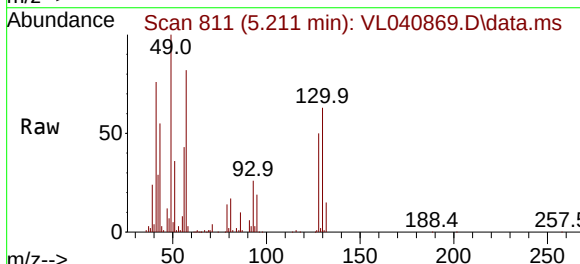
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

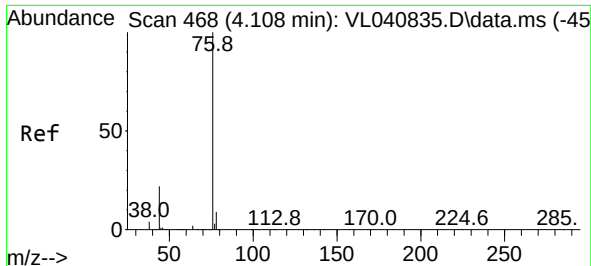
Tgt Ion: 43 Resp: 144546
Ion Ratio Lower Upper
43 100
45 0.8 8.1 12.1#
61 0.5 7.8 11.6#
70 1.8 5.3 7.9#



#26
Hexane
Concen: 1.977 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.016 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 57 Resp: 204247
Ion Ratio Lower Upper
57 100
41 99.3 75.4 113.0
43 72.4 185.9 278.9#
56 53.6 42.6 63.8

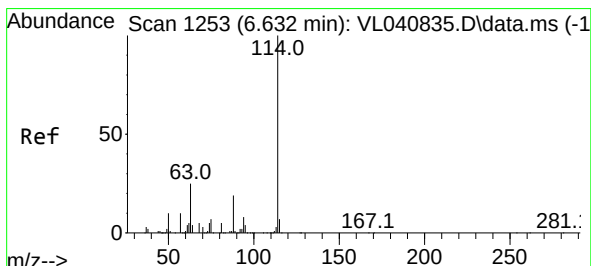
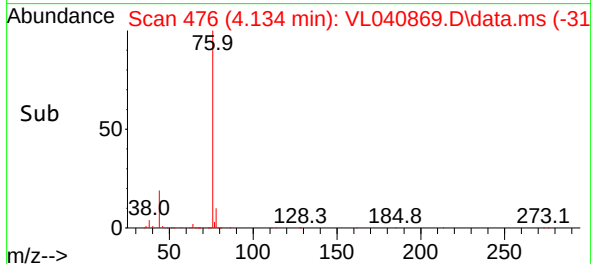
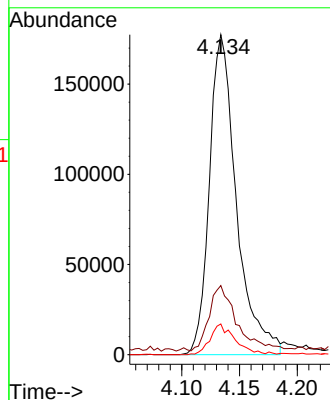
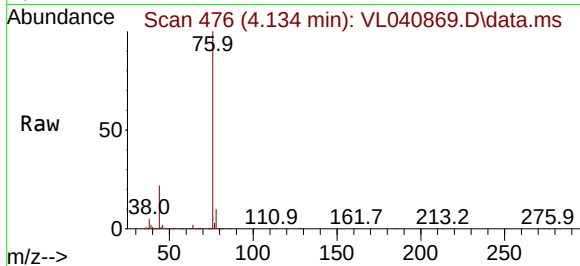




#27
Carbon Disulfide
Concen: 2.209 ppbv
RT: 4.134 min Scan# 41
Delta R.T. 0.026 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

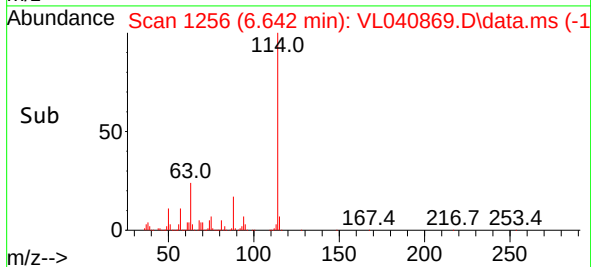
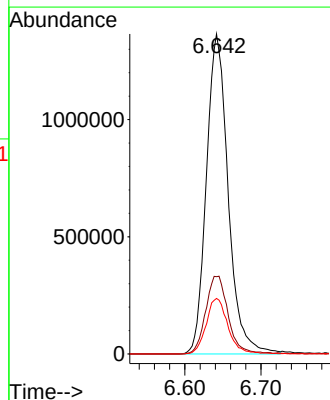
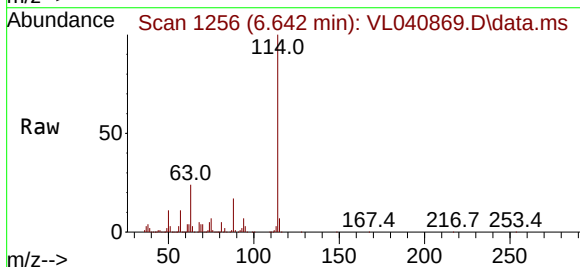
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

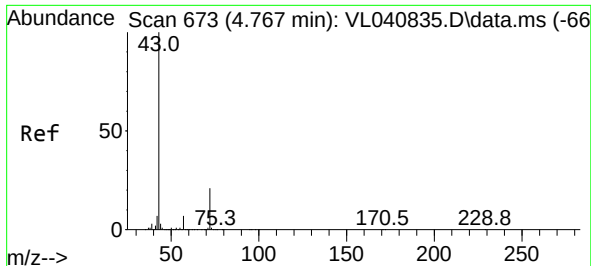
Tgt Ion: 76 Resp: 289307
Ion Ratio Lower Upper
76 100
44 22.3 16.7 25.1
78 8.9 7.6 11.4



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.642 min Scan# 1256
Delta R.T. 0.009 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 114 Resp: 2717865
Ion Ratio Lower Upper
114 100
63 25.3 20.9 31.3
88 17.5 14.3 21.5

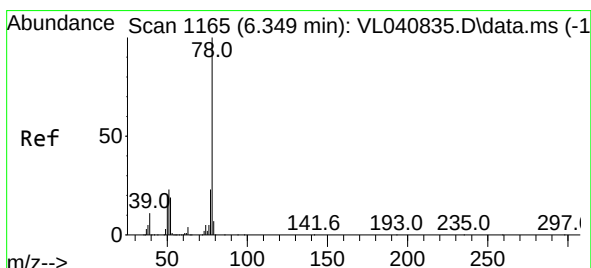
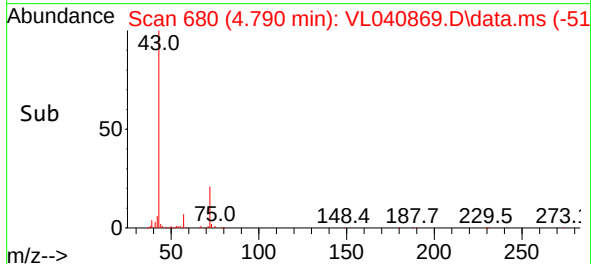
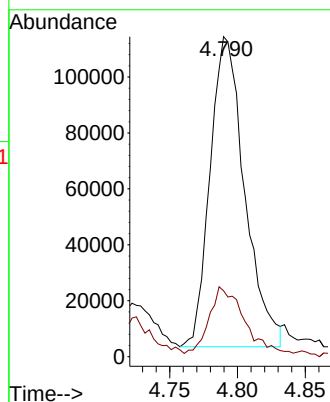
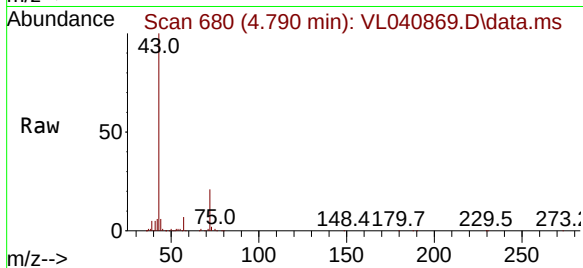




#34
2-Butanone
Concen: 1.422 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.022 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

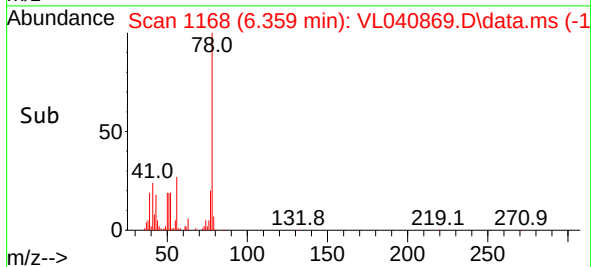
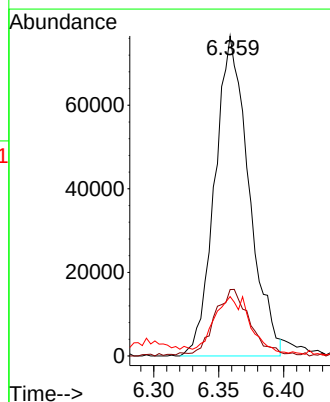
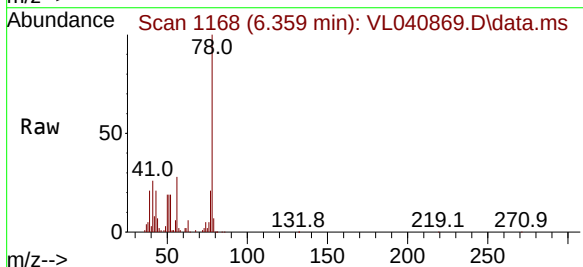
Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

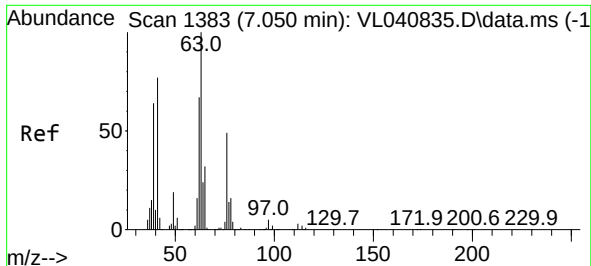
Tgt Ion: 43 Resp: 196922
Ion Ratio Lower Upper
43 100
72 24.2 17.2 25.8



#36
Benzene
Concen: 0.632 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. 0.009 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 78 Resp: 139473
Ion Ratio Lower Upper
78 100
77 19.8 18.4 27.6
50 17.3 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.683 ppbv

RT: 6.645 min Scan# 1

Delta R.T. -0.405 min

Lab File: VL040869.D

Acq: 15 Nov 2023 15:08

Instrument :

MSVOA_L

ClientSampleId :

NT-SS-2DUP

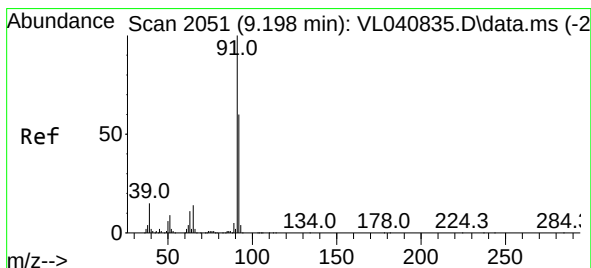
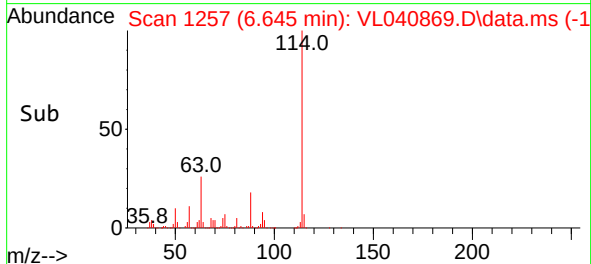
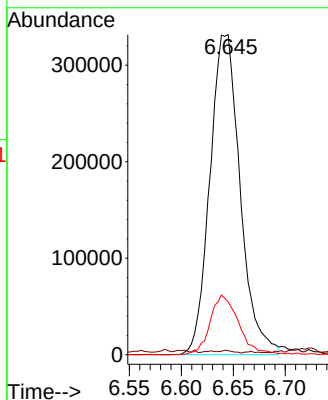
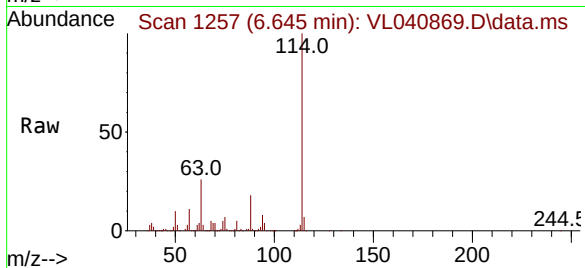
Tgt Ion: 63 Resp: 671933

Ion Ratio Lower Upper

63 100

41 0.2 61.5 92.3#

62 16.4 53.9 80.9#



#53

Toluene

Concen: 0.304 ppbv

RT: 9.198 min Scan# 2051

Delta R.T. -0.000 min

Lab File: VL040869.D

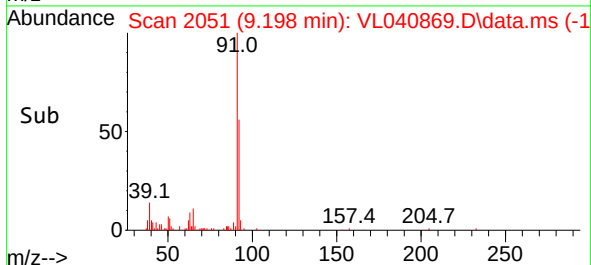
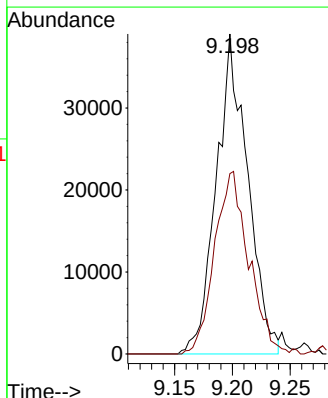
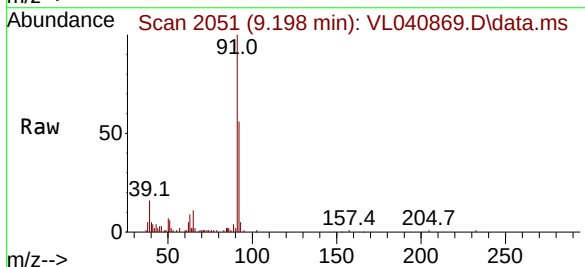
Acq: 15 Nov 2023 15:08

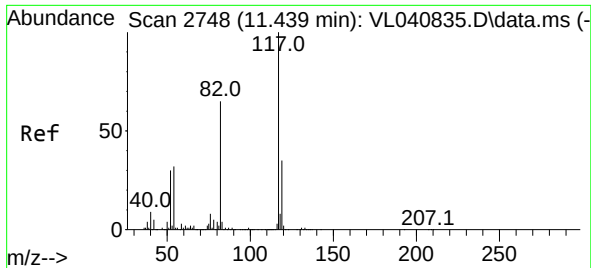
Tgt Ion: 91 Resp: 73741

Ion Ratio Lower Upper

91 100

92 62.3 49.4 74.2

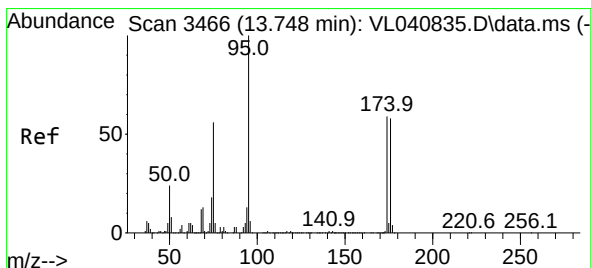
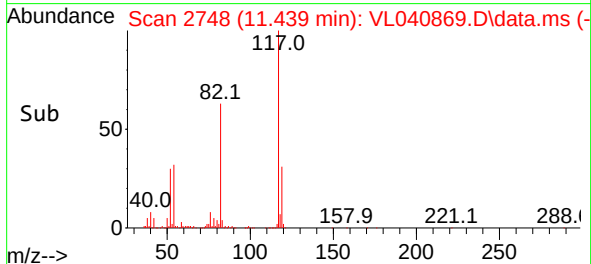
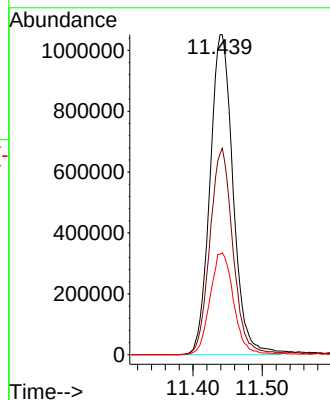
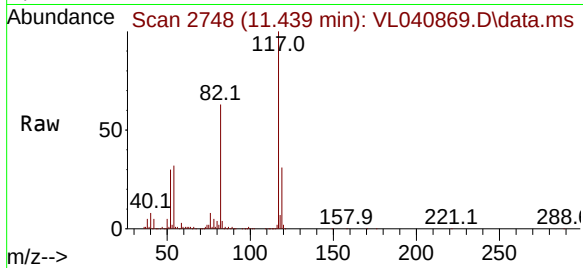




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Instrument :
MSVOA_L
ClientSampleId :
NT-SS-2DUP

Tgt Ion:117 Resp: 2439493
Ion Ratio Lower Upper
117 100
82 64.3 50.6 75.8
119 32.6 23.3 34.9



#68
1-Bromo-4-Fluorobenzene
Concen: 10.087 ppbv
RT: 13.747 min Scan# 3466
Delta R.T. -0.000 min
Lab File: VL040869.D
Acq: 15 Nov 2023 15:08

Tgt Ion: 95 Resp: 1926560
Ion Ratio Lower Upper
95 100
174 59.9 47.5 71.3
175 4.5 3.6 5.4

