

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
 Data File : VL040848.D
 Acq On : 14 Nov 2023 13:16
 Operator : SY/MD
 Sample : 05365-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Nov 22 00:43:47 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 20 03:50:24 2023
 Response via : Initial Calibration

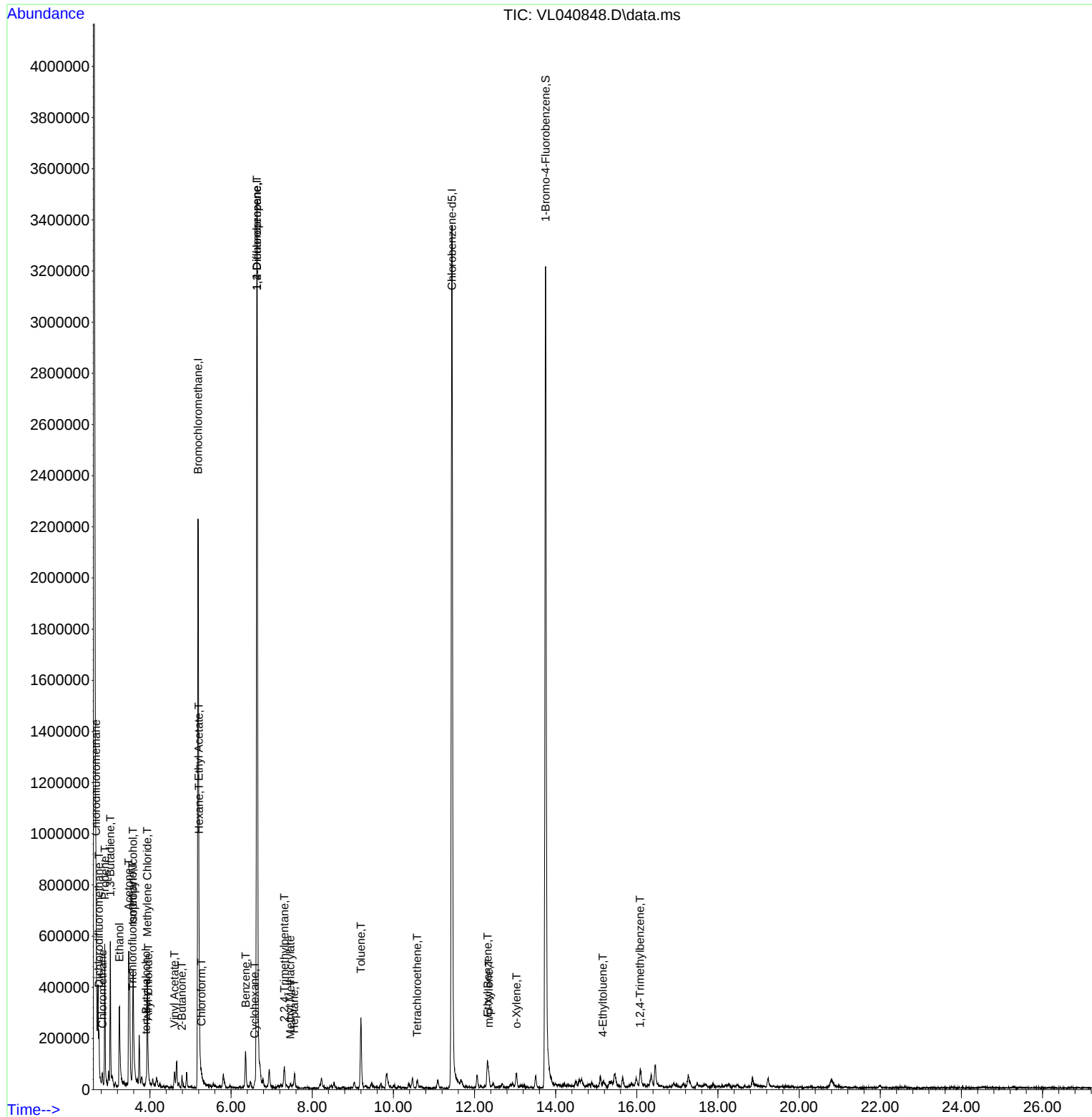
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	5.185	49	1027444	10.000	ppbv	-0.03
33) 1,4-Difluorobenzene	6.639	114	2657222	10.000	ppbv	-0.03
55) Chlorobenzene-d5	11.442	117	2240606	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1691651	9.643	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.745	85	105609	0.507	ppbv	96
3) Chlorodifluoromethane	2.671	51	179918	1.097	ppbv #	72
4) Chloromethane	2.829	50	34862	0.591	ppbv	92
9) Propene	2.886	41	126892	2.295	ppbv	91
10) Heptane	7.552	43	5281	0.039	ppbv #	28
11) Trichlorofluoromethane	3.571	101	36359	0.227	ppbv #	83
13) Ethanol	3.250	45	353458	32.926	ppbv #	100
15) Acetone	3.475	43	638087	5.831	ppbv	94
16) 1,3-Butadiene	3.025	39	64137	1.159	ppbv #	22
17) tert-Butyl alcohol	3.902	59	5574	0.060	ppbv #	71
19) Isopropyl Alcohol	3.584	45	495662	7.527	ppbv #	98
20) Methylene Chloride	3.938	84	131789	2.918	ppbv	90
21) Allyl Chloride	3.960	41	3212	0.046	ppbv #	2
23) Vinyl Acetate	4.607	43	28154	0.199	ppbv #	16
25) Ethyl Acetate	5.205	43	124946	0.551	ppbv #	94
26) Hexane	5.208	57	119339	1.190	ppbv #	55
29) Chloroform	5.269	83	8222	0.048	ppbv	99
30) Cyclohexane	6.578	84	2653	0.031	ppbv #	1
34) 2-Butanone	4.790	43	52436	0.387	ppbv	94
36) Benzene	6.359	78	112356	0.521	ppbv	97
39) 1,2-Dichloropropane	6.639	63	657011	7.684	ppbv #	22
43) Methyl Methacrylate	7.462	69	3441	0.042	ppbv #	1
44) 2,2,4-Trimethylpentane	7.314	57	58518	0.163	ppbv #	72
52) Tetrachloroethene	10.584	164	2667	0.037	ppbv #	82
53) Toluene	9.201	91	192987	0.813	ppbv	98
58) Ethyl Benzene	12.323	91	21970	0.075	ppbv	93
59) m/p-Xylene	12.352	91	23843	0.096	ppbv #	32
60) o-Xylene	13.034	91	24035	0.101	ppbv #	41
72) 4-Ethyltoluene	15.162	105	10277	0.039	ppbv #	54
74) 1,2,4-Trimethylbenzene	16.076	105	16481	0.064	ppbv #	59

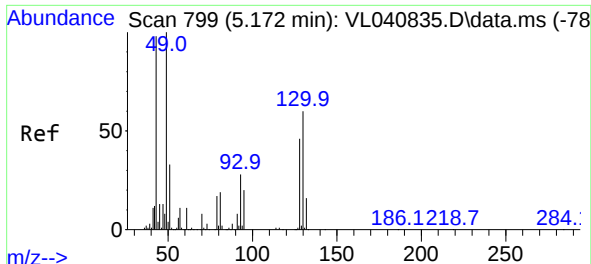
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL111423\
Data File : VL040848.D
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Quant Time: Nov 22 00:43:47 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 20 03:50:24 2023
Response via : Initial Calibration

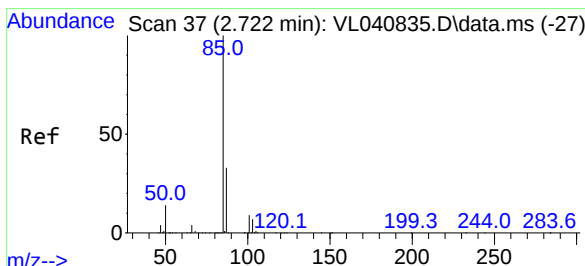
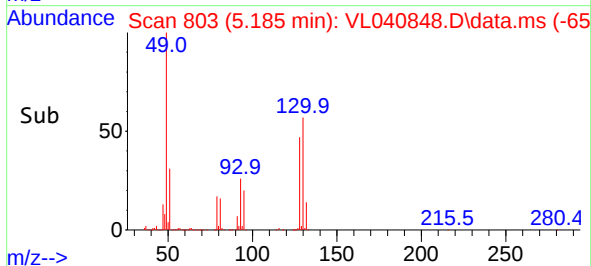
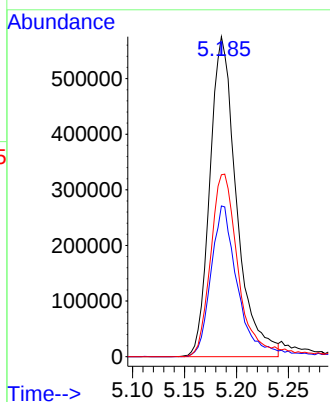
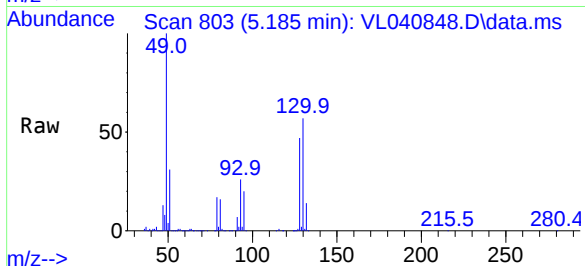




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

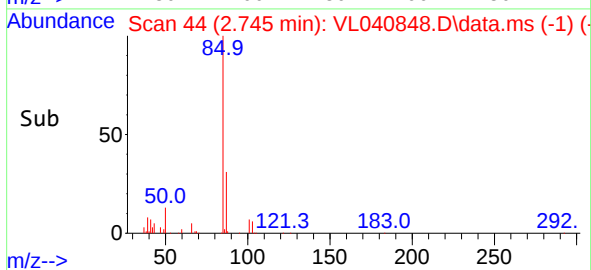
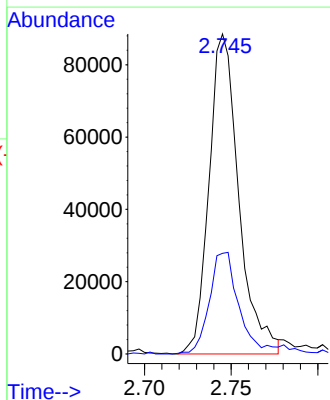
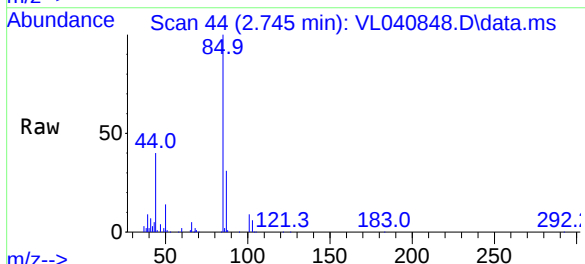
Instrument :
MSVOA_L
ClientSampleId :
OA1

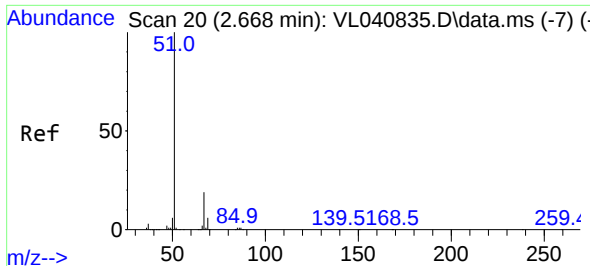
Tgt Ion: 49 Resp: 1027444
Ion Ratio Lower Upper
49 100
128 49.4 23.8 71.2
130 61.2 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.507 ppbv
RT: 2.745 min Scan# 44
Delta R.T. -0.029 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 85 Resp: 105609
Ion Ratio Lower Upper
85 100
87 31.3 26.7 40.1

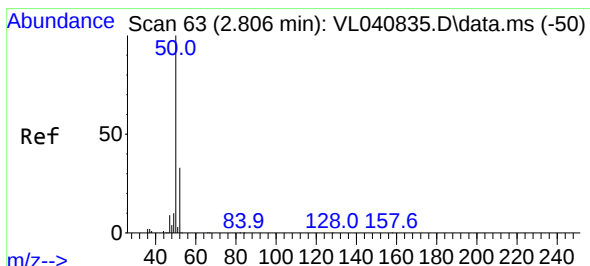
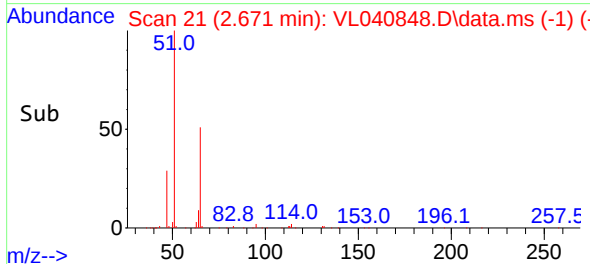
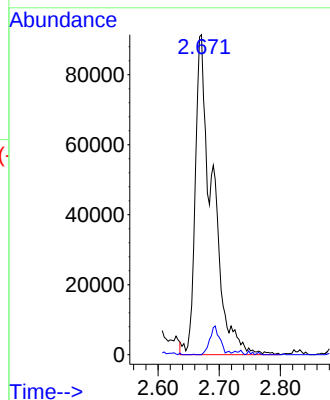
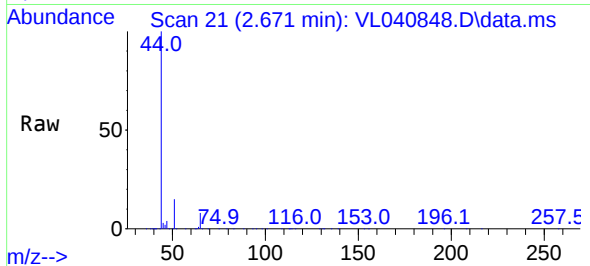




#3
Chlorodifluoromethane
Concen: 1.097 ppbv
RT: 2.671 min Scan# 21
Delta R.T. -0.048 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

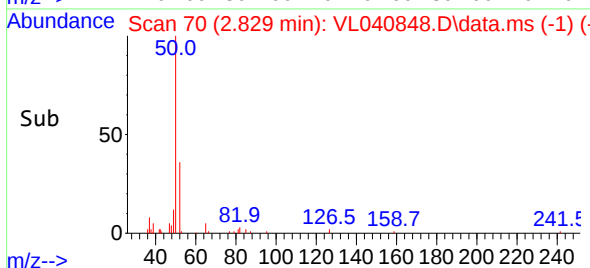
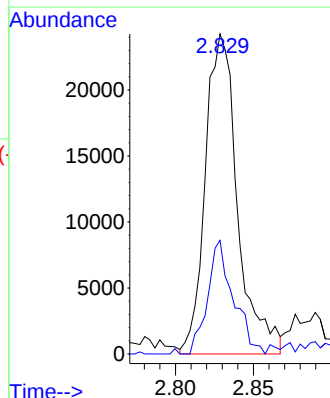
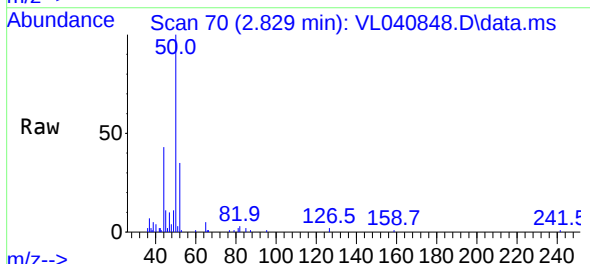
Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 51 Resp: 179918
Ion Ratio Lower Upper
51 100
67 6.0 15.0 22.4#

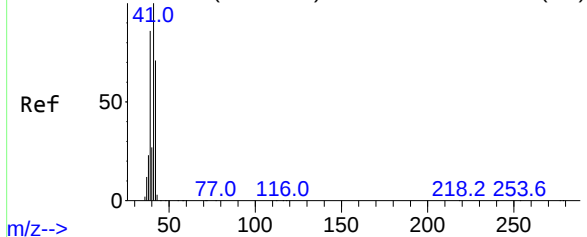


#4
Chloromethane
Concen: 0.591 ppbv
RT: 2.829 min Scan# 70
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 50 Resp: 34862
Ion Ratio Lower Upper
50 100
52 37.7 26.5 39.7



Abundance Scan 26 (2.687 min): VL040835.D\data.ms (-18)



#9

Propene

Concen: 2.295 ppbv

RT: 2.886 min Scan# 81

Delta R.T. 0.148 min

Lab File: VL040848.D

Acq: 14 Nov 2023 13:16

Instrument :

MSVOA_L

ClientSampleId :

OA1

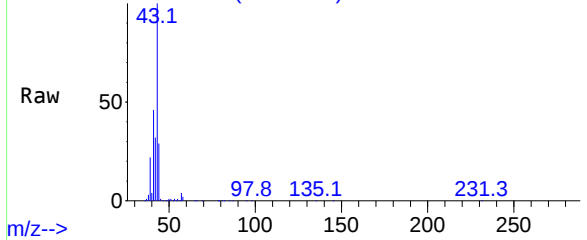
Tgt Ion: 41 Resp: 126892

Ion Ratio Lower Upper

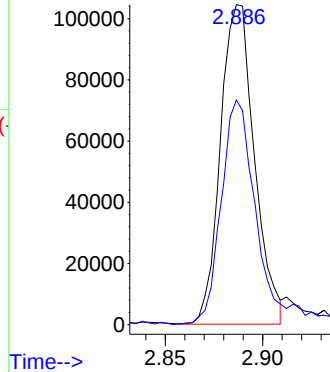
41 100

42 78.3 56.5 84.7

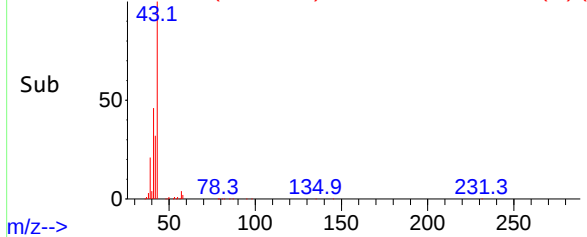
Abundance Scan 88 (2.886 min): VL040848.D\data.ms



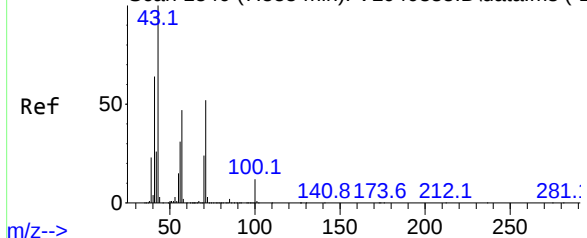
Abundance



Abundance Scan 88 (2.886 min): VL040848.D\data.ms (-1)



Abundance Scan 1540 (7.555 min): VL040835.D\data.ms (-1)



#10

Heptane

Concen: 0.039 ppbv

RT: 7.552 min Scan# 1539

Delta R.T. -0.035 min

Lab File: VL040848.D

Acq: 14 Nov 2023 13:16

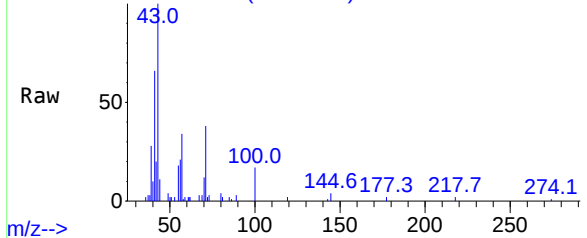
Tgt Ion: 43 Resp: 5281

Ion Ratio Lower Upper

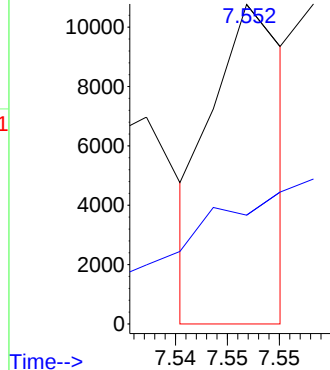
43 100

57 0.0 39.4 59.0#

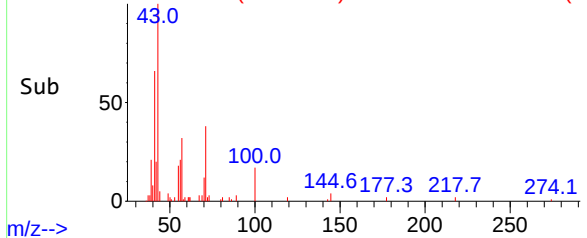
Abundance Scan 1539 (7.552 min): VL040848.D\data.ms

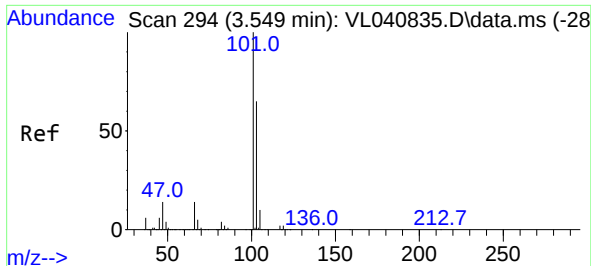


Abundance



Abundance Scan 1539 (7.552 min): VL040848.D\data.ms (-1)

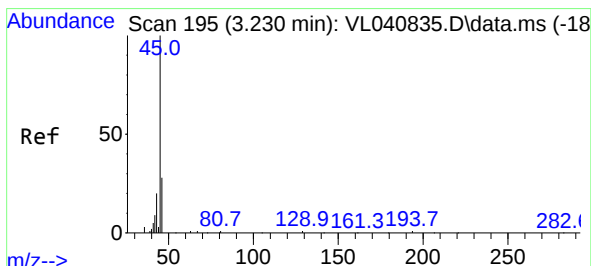
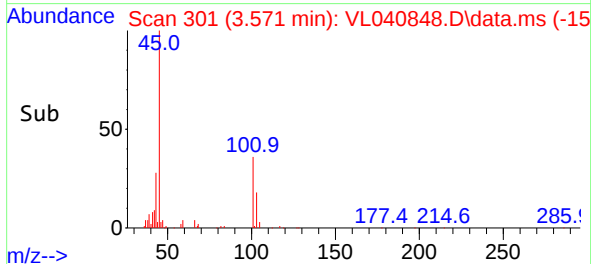
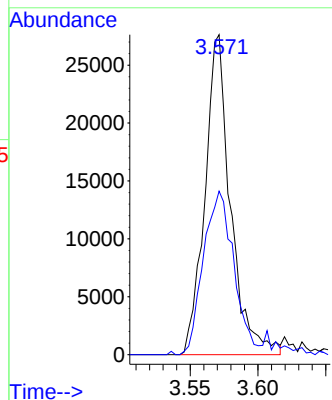
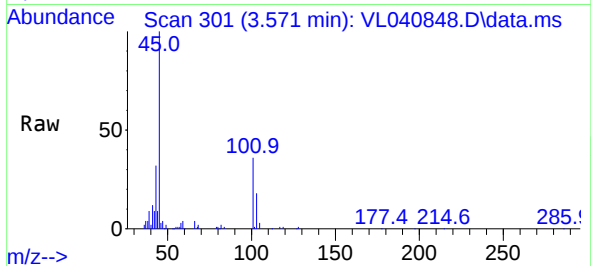




#11
Trichlorofluoromethane
Concen: 0.227 ppbv
RT: 3.571 min Scan# 301
Delta R.T. -0.023 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

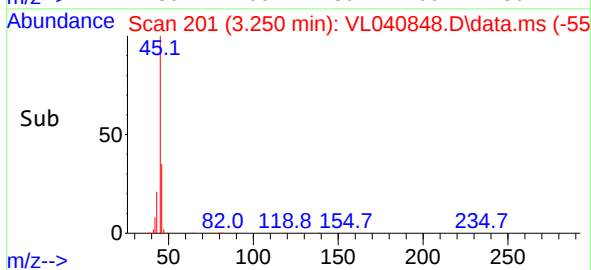
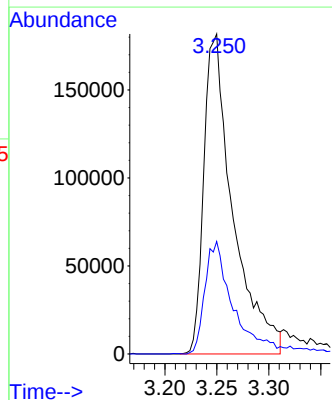
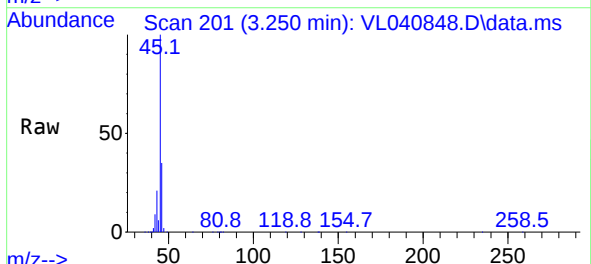
Instrument :
MSVOA_L
ClientSampleId :
OA1

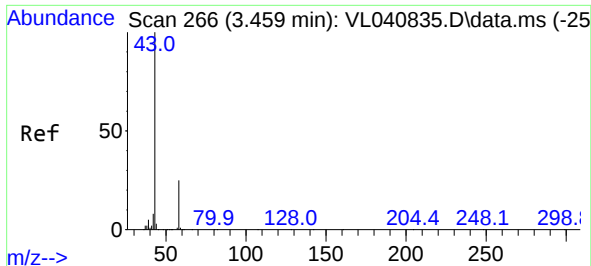
Tgt Ion:101 Resp: 36359
Ion Ratio Lower Upper
101 100
103 51.1 51.8 77.8#



#13
Ethanol
Concen: 32.926 ppbv
RT: 3.250 min Scan# 201
Delta R.T. -0.029 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 45 Resp: 353458
Ion Ratio Lower Upper
45 100
46 36.4 0.0 0.0#

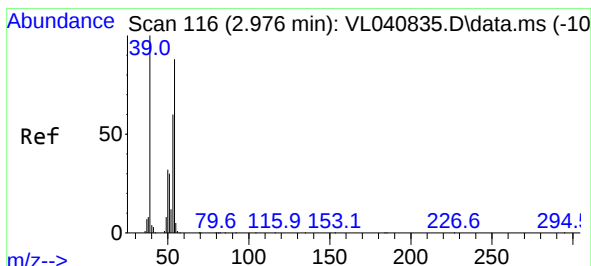
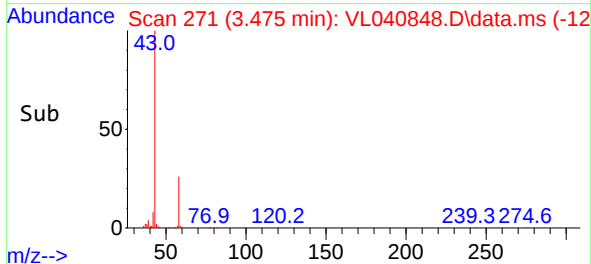
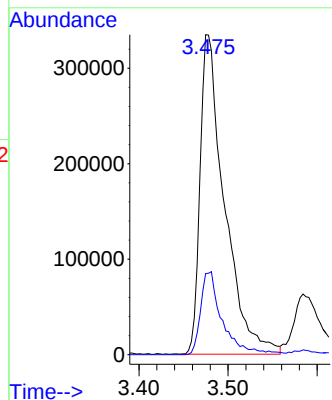
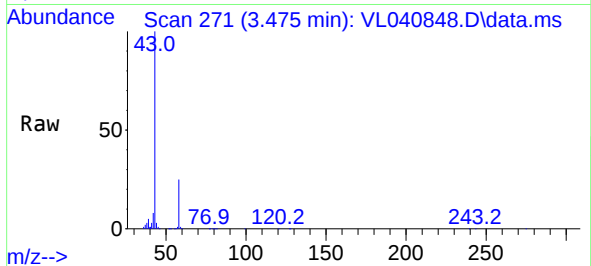




#15
Acetone
Concen: 5.831 ppbv
RT: 3.475 min Scan# 21
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

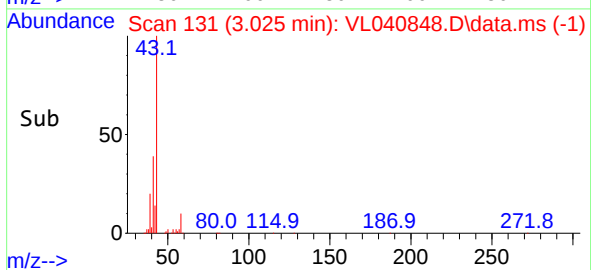
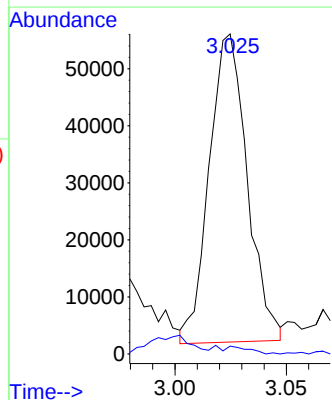
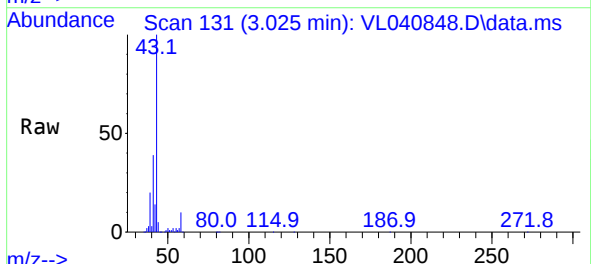
Instrument :
MSVOA_L
ClientSampleId :
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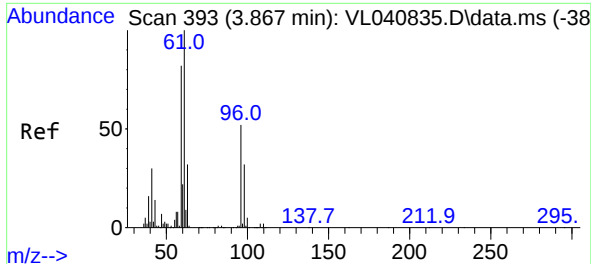
Tgt Ion: 43 Resp: 638087
Ion Ratio Lower Upper
43 100
58 23.1 20.9 31.3



#16
1,3-Butadiene
Concen: 1.159 ppbv
RT: 3.025 min Scan# 131
Delta R.T. -0.000 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 39 Resp: 64137
Ion Ratio Lower Upper
39 100
54 9.4 61.8 92.6#

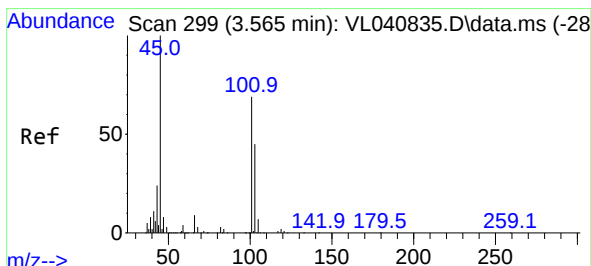
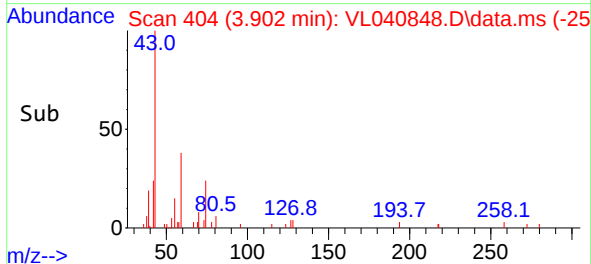
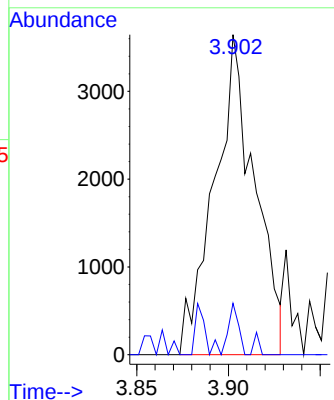
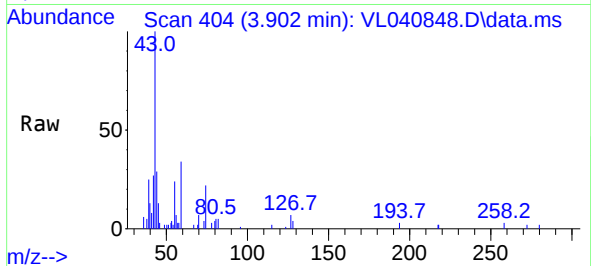




#17
tert-Butyl alcohol
Concen: 0.060 ppbv
RT: 3.902 min Scan# 40
Delta R.T. -0.007 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

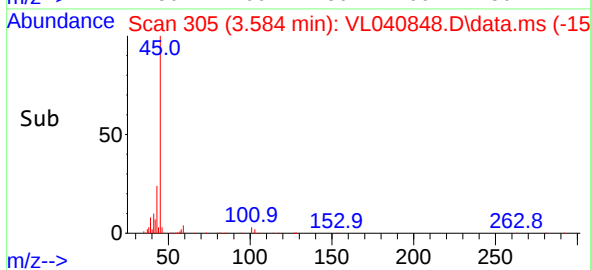
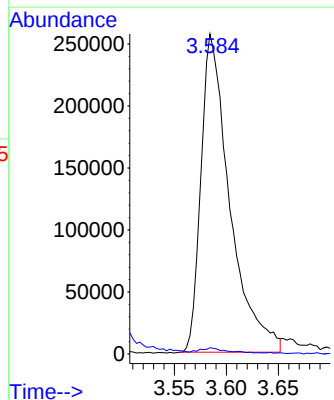
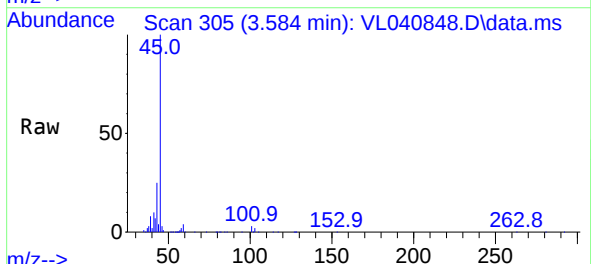
Instrument :
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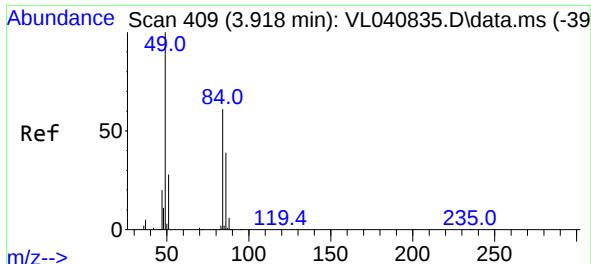
Tgt Ion: 59 Resp: 5574
Ion Ratio Lower Upper
59 100
57 0.0 9.0 13.4#



#19
Isopropyl Alcohol
Concen: 7.527 ppbv
RT: 3.584 min Scan# 305
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 45 Resp: 495662
Ion Ratio Lower Upper
45 100
58 2.6 1.6 2.4#



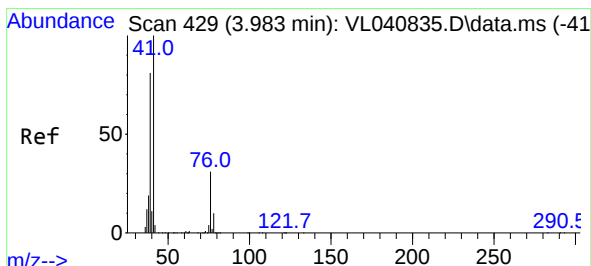
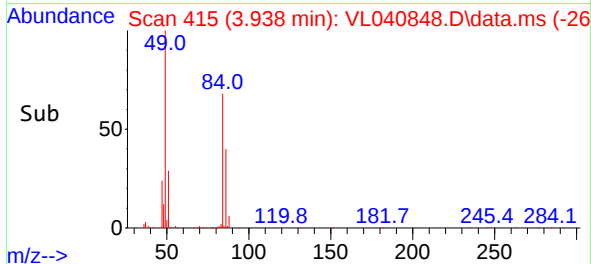
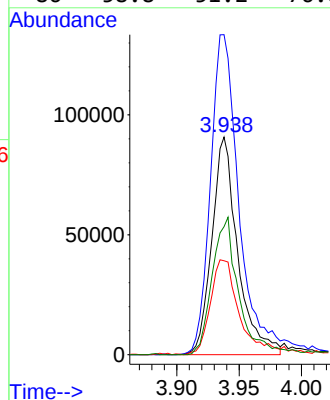
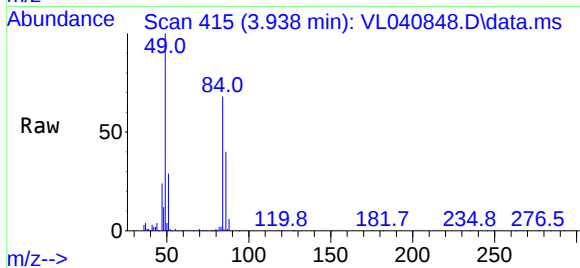


#20
Methylene Chloride
Concen: 2.918 ppbv
RT: 3.938 min Scan# 415
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion: 84 Resp: 131789

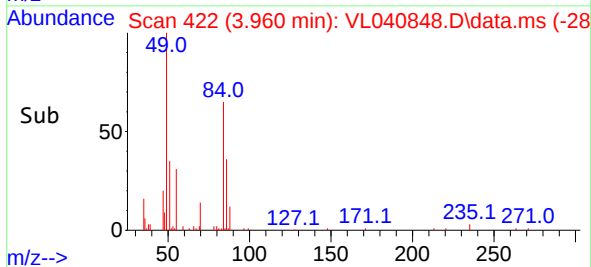
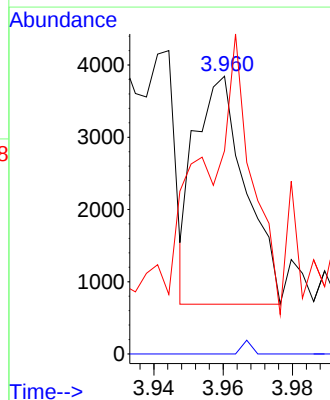
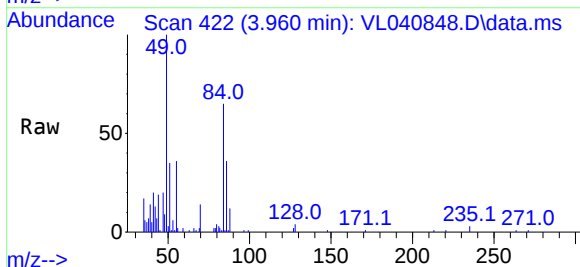
Ion	Ratio	Lower	Upper
84	100		
49	146.9	131.0	196.4
51	42.9	36.9	55.3
86	58.8	51.2	76.8

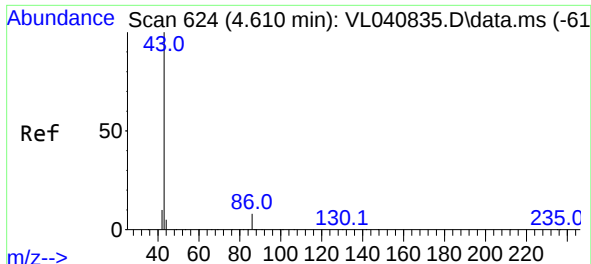


#21
Allyl Chloride
Concen: 0.046 ppbv
RT: 3.960 min Scan# 422
Delta R.T. -0.064 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 41 Resp: 3212

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	188.0	68.1	102.1#



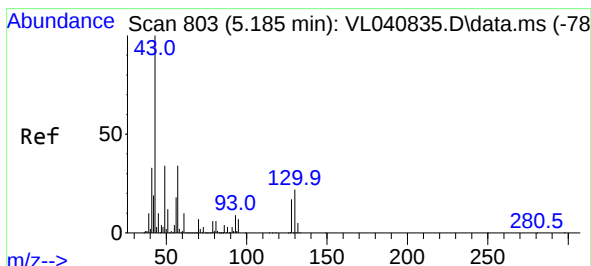
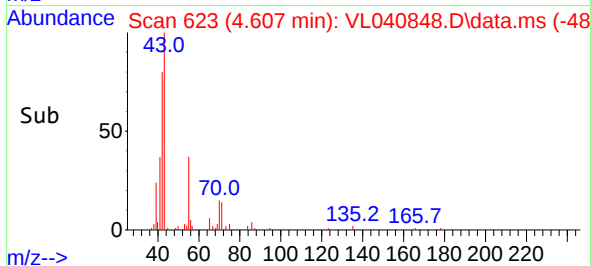
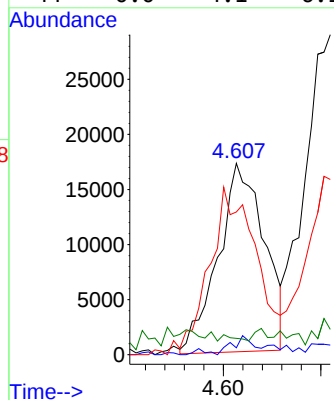
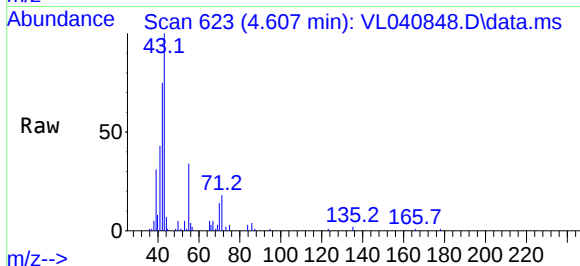


#23
 Vinyl Acetate
 Concen: 0.199 ppbv
 RT: 4.607 min Scan# 61
 Delta R.T. -0.042 min
 Lab File: VL040848.D
 Acq: 14 Nov 2023 13:16

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 43 Resp: 28154

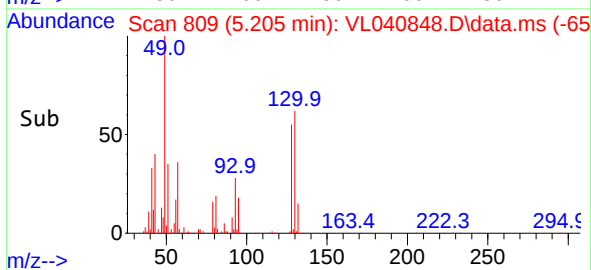
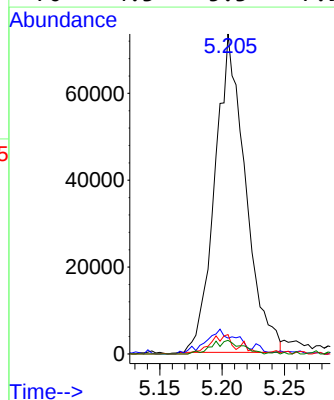
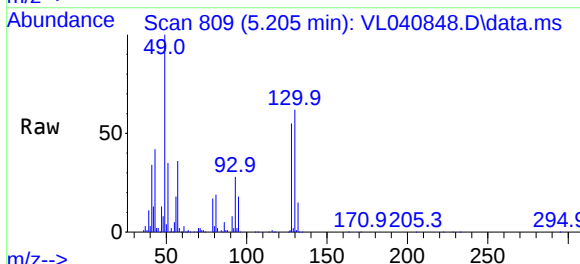
Ion	Ratio	Lower	Upper
43	100		
86	3.7	5.5	8.3#
42	73.4	8.2	12.2#
44	0.0	4.1	6.1#

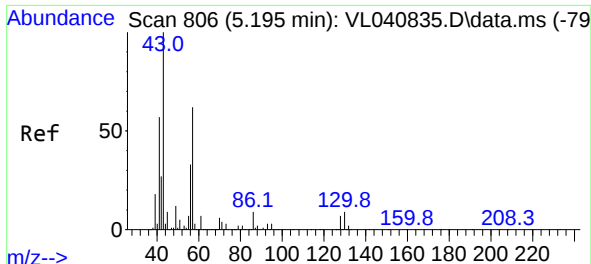


#25
 Ethyl Acetate
 Concen: 0.551 ppbv
 RT: 5.205 min Scan# 809
 Delta R.T. -0.016 min
 Lab File: VL040848.D
 Acq: 14 Nov 2023 13:16

Tgt Ion: 43 Resp: 124946

Ion	Ratio	Lower	Upper
43	100		
45	9.5	8.1	12.1
61	5.8	7.8	11.6#
70	4.3	5.3	7.9#

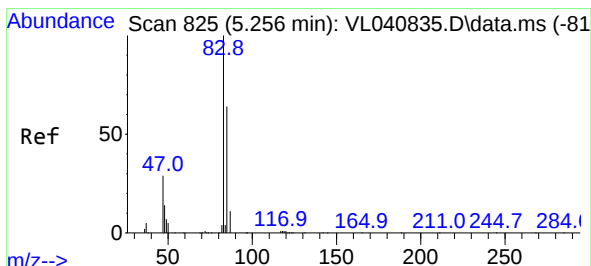
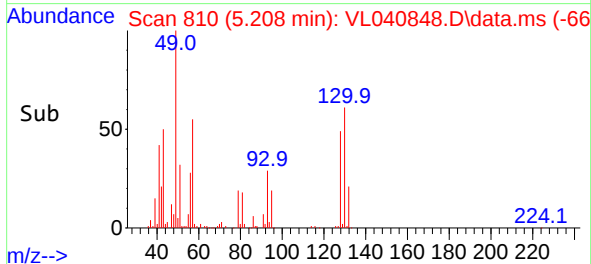
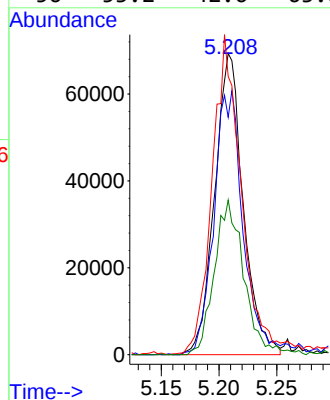
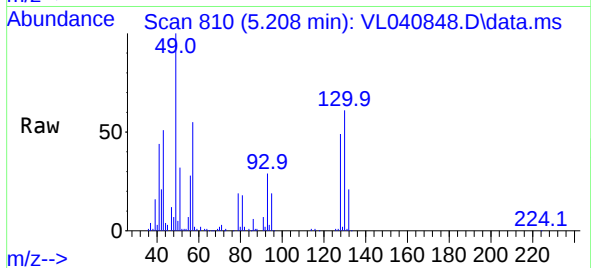




#26
Hexane
Concen: 1.190 ppbv
RT: 5.208 min Scan# 810
Delta R.T. -0.023 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

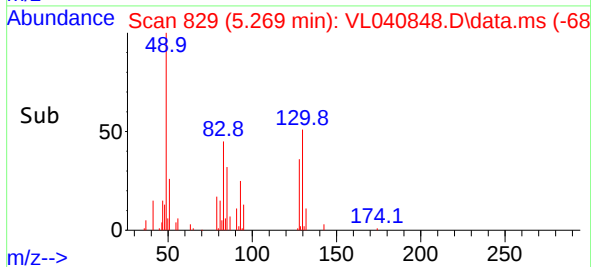
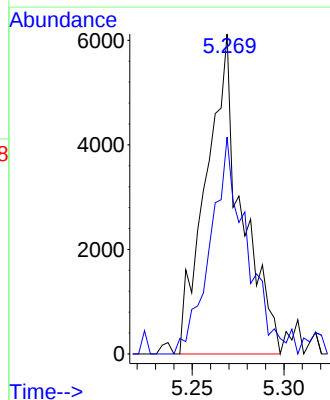
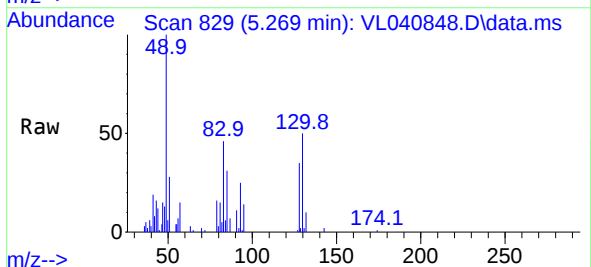
Instrument :
MSVOA_L
ClientSampleId :
OA1

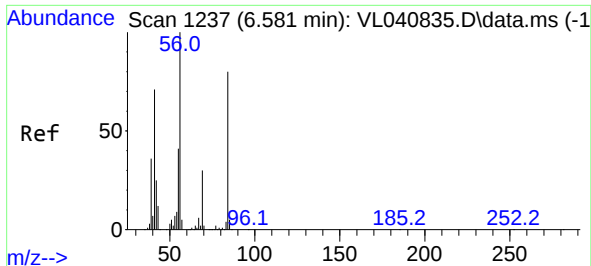
Tgt Ion: 57 Resp: 119339
Ion Ratio Lower Upper
57 100
41 91.2 75.4 113.0
43 113.4 185.9 278.9#
56 53.2 42.6 63.8



#29
Chloroform
Concen: 0.048 ppbv
RT: 5.269 min Scan# 829
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 83 Resp: 8222
Ion Ratio Lower Upper
83 100
85 64.9 51.4 77.0

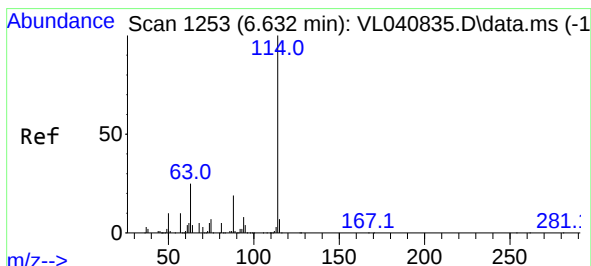
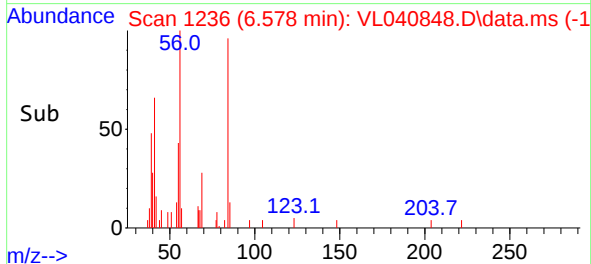
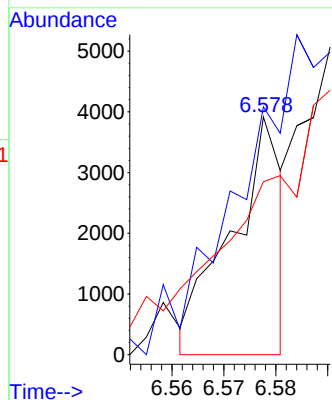
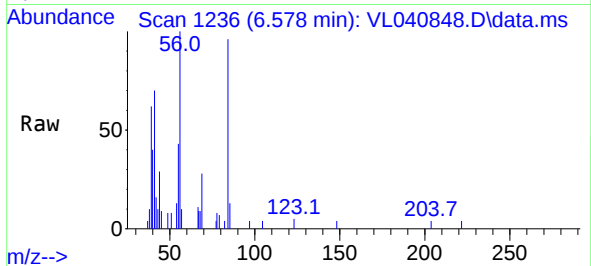




#30
Cyclohexane
Concen: 0.031 ppbv
RT: 6.578 min Scan# 11
Delta R.T. -0.035 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

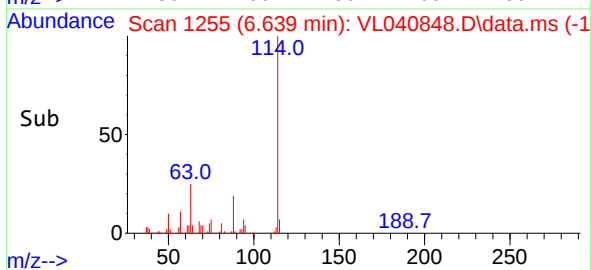
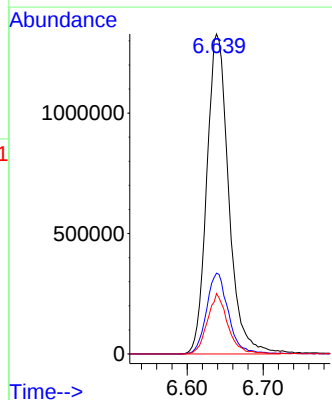
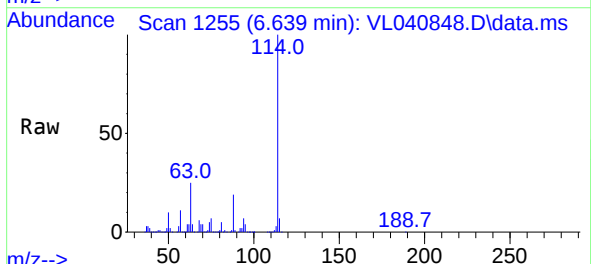
Instrument :
MSVOA_L
ClientSampleId :
OA1

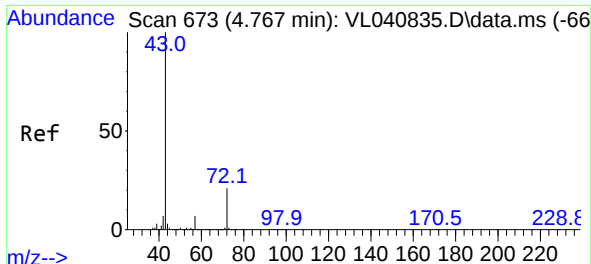
Tgt Ion: 84 Resp: 2653
Ion Ratio Lower Upper
84 100
56 0.0 109.3 163.9#
41 0.0 71.4 107.2#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.639 min Scan# 1255
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 114 Resp: 2657222
Ion Ratio Lower Upper
114 100
63 25.5 20.9 31.3
88 17.7 14.3 21.5

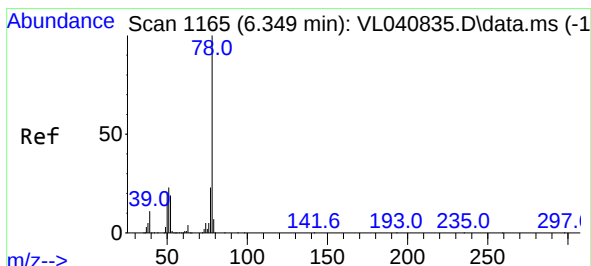
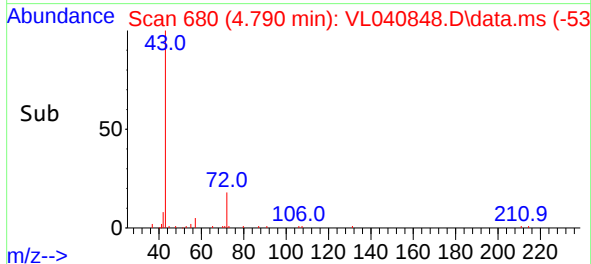
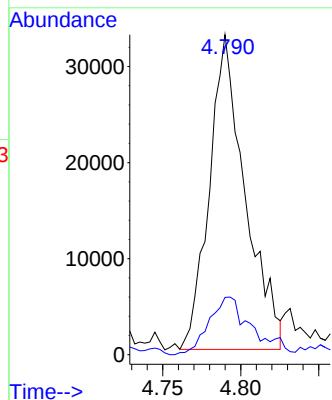
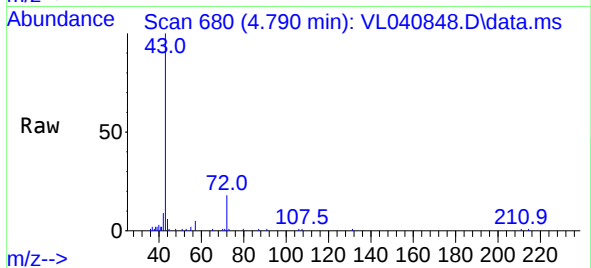




#34
2-Butanone
Concen: 0.387 ppbv
RT: 4.790 min Scan# 61
Delta R.T. -0.016 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

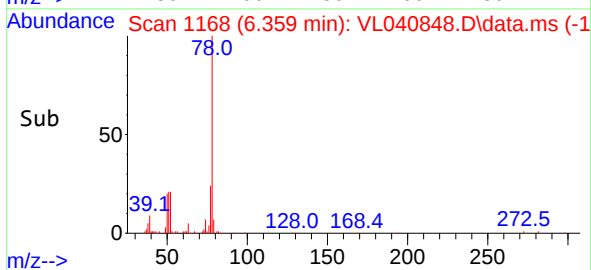
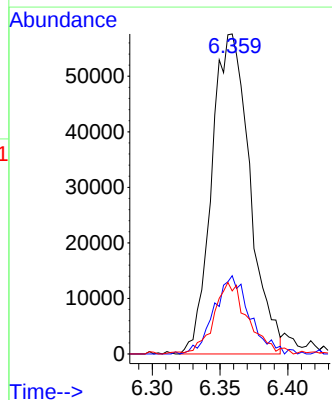
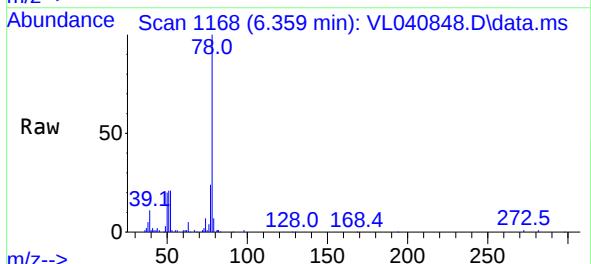
Instrument :
MSVOA_L
ClientSampleId :
OA1

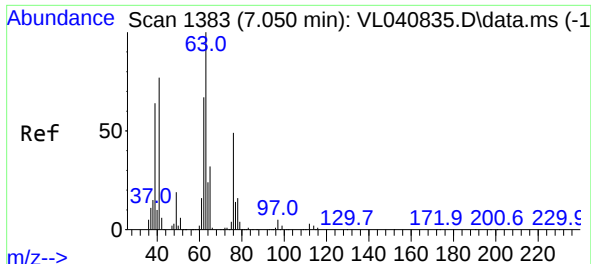
Tgt Ion: 43 Resp: 52436
Ion Ratio Lower Upper
43 100
72 24.4 17.2 25.8



#36
Benzene
Concen: 0.521 ppbv
RT: 6.359 min Scan# 1168
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 78 Resp: 112356
Ion Ratio Lower Upper
78 100
77 24.4 18.4 27.6
50 19.1 16.2 24.2





#39

1,2-Dichloropropane

Concen: 7.684 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.444 min

Lab File: VL040848.D

Acq: 14 Nov 2023 13:16

Instrument :

MSVOA_L

ClientSampleId :

OA1

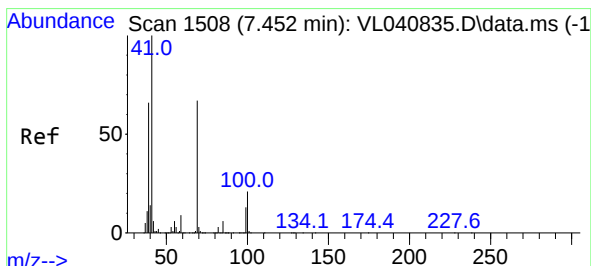
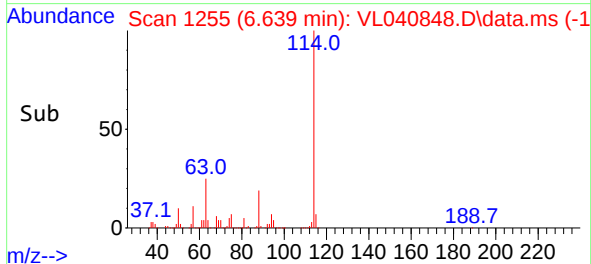
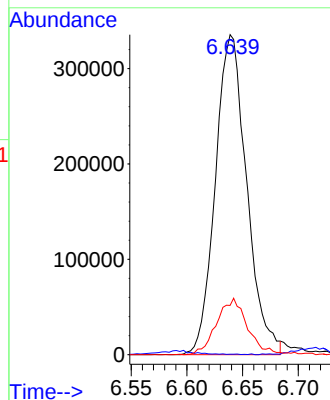
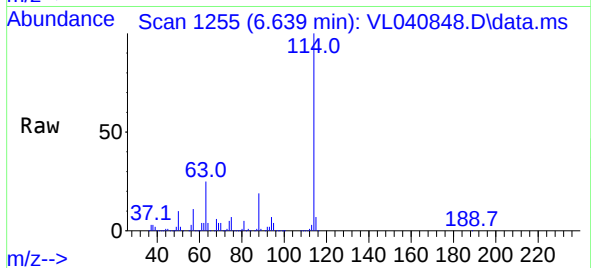
Tgt Ion: 63 Resp: 657011

Ion Ratio Lower Upper

63 100

41 0.0 61.5 92.3#

62 15.3 53.9 80.9#



#43

Methyl Methacrylate

Concen: 0.042 ppbv

RT: 7.462 min Scan# 1511

Delta R.T. -0.016 min

Lab File: VL040848.D

Acq: 14 Nov 2023 13:16

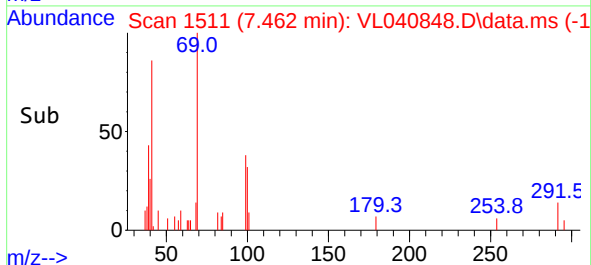
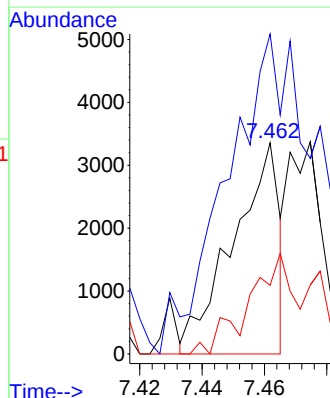
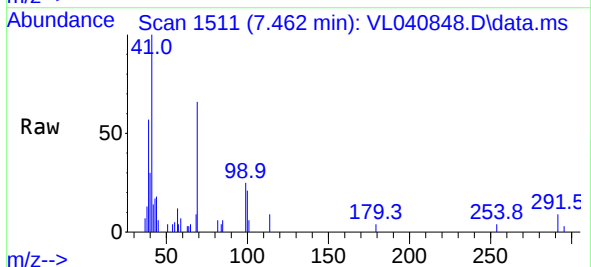
Tgt Ion: 69 Resp: 3441

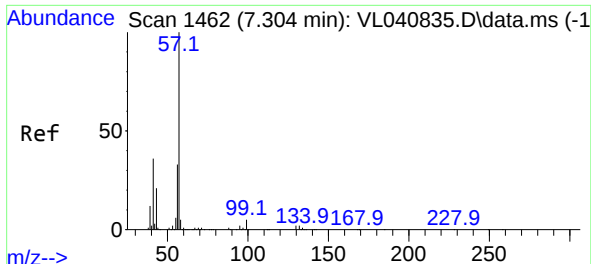
Ion Ratio Lower Upper

69 100

41 302.6 123.0 184.4#

100 69.0 25.4 38.2#

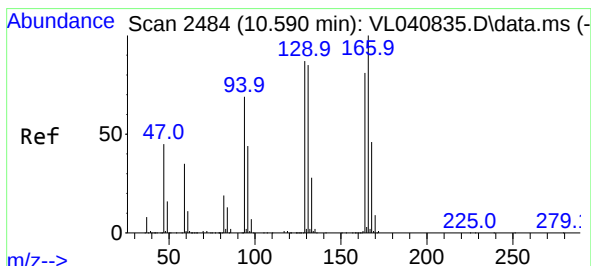
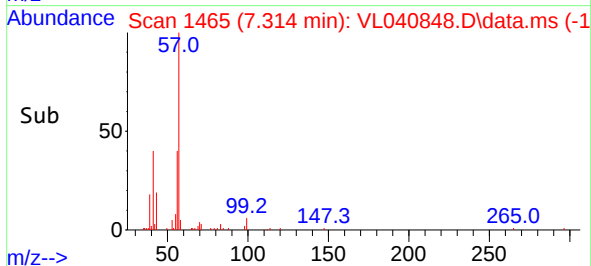
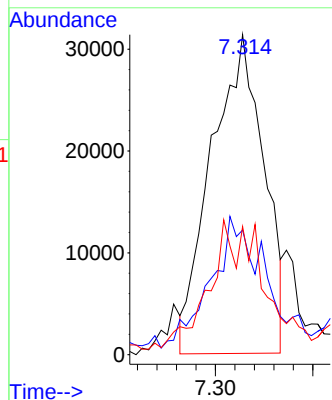
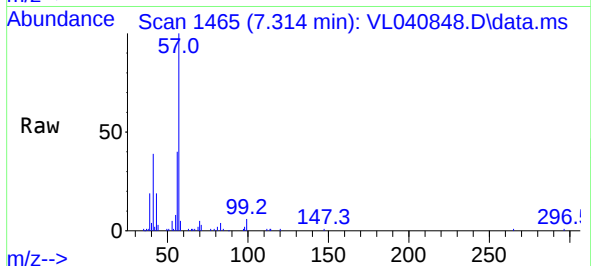




#44
2,2,4-Trimethylpentane
Concen: 0.163 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. -0.019 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

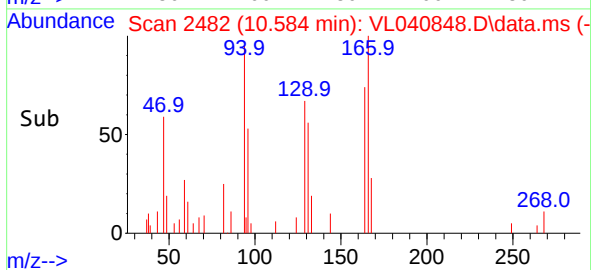
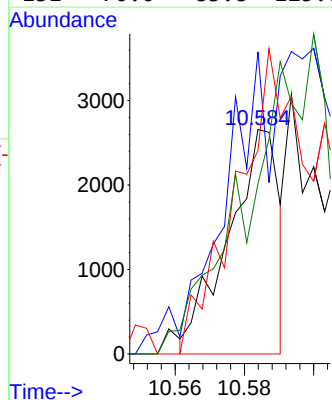
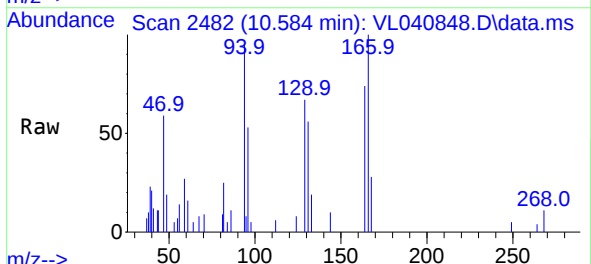
Instrument :
MSVOA_L
ClientSampleId :
OA1

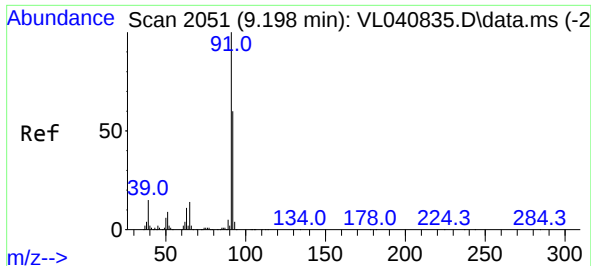
Tgt Ion: 57 Resp: 58518
Ion Ratio Lower Upper
57 100
41 44.1 29.0 43.6#
56 56.4 25.2 37.8#



#52
Tetrachloroethene
Concen: 0.037 ppbv
RT: 10.584 min Scan# 2482
Delta R.T. -0.032 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion:164 Resp: 2667
Ion Ratio Lower Upper
164 100
166 135.9 98.3 147.5
129 96.9 85.1 127.7
131 70.0 83.8 125.6#

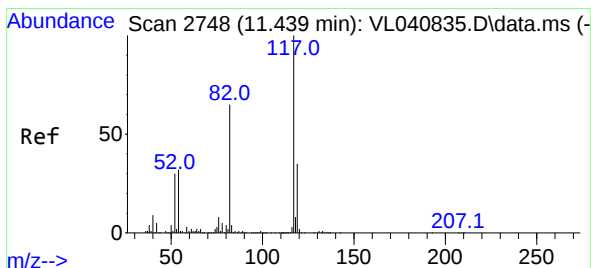
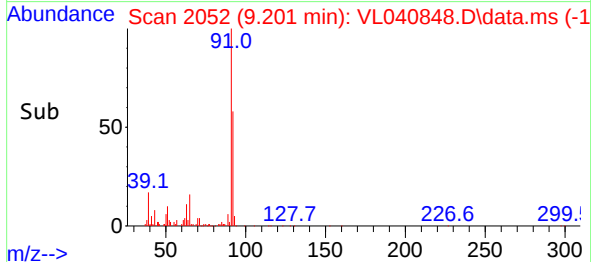
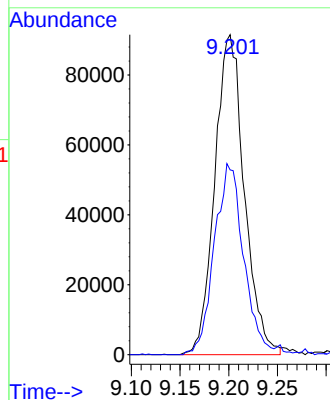
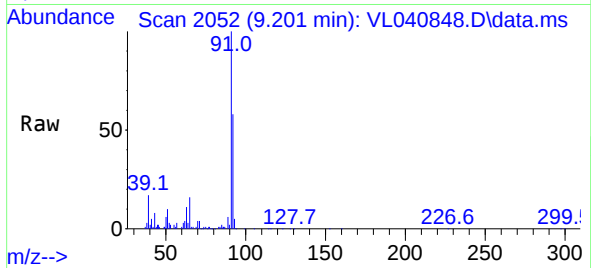




#53
Toluene
Concen: 0.813 ppbv
RT: 9.201 min Scan# 2051
Delta R.T. -0.023 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

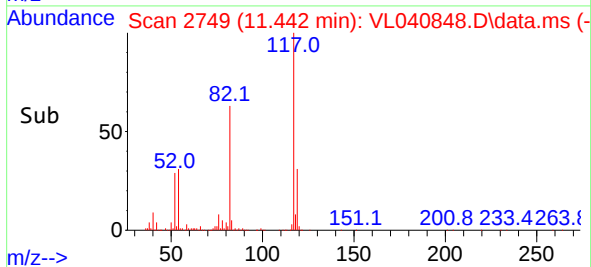
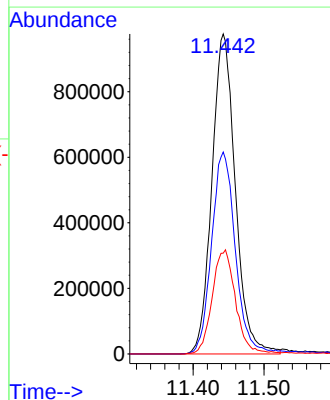
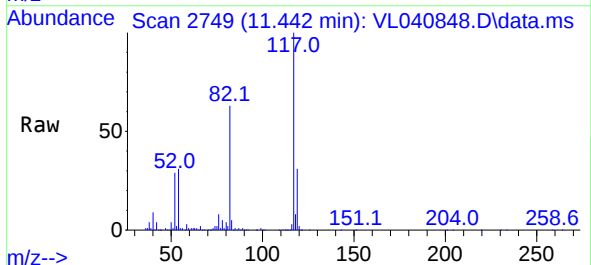
Instrument :
MSVOA_L
ClientSampleId :
OA1

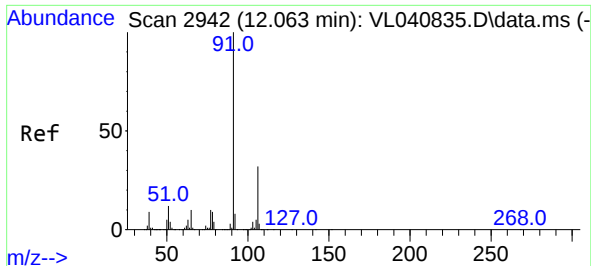
Tgt Ion: 91 Resp: 192987
Ion Ratio Lower Upper
91 100
92 60.5 49.4 74.2



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. -0.019 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 117 Resp: 2240606
Ion Ratio Lower Upper
117 100
82 65.0 50.6 75.8
119 32.8 23.3 34.9

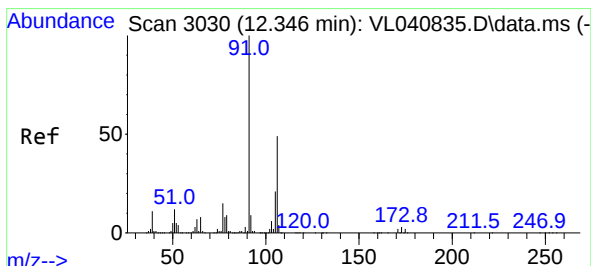
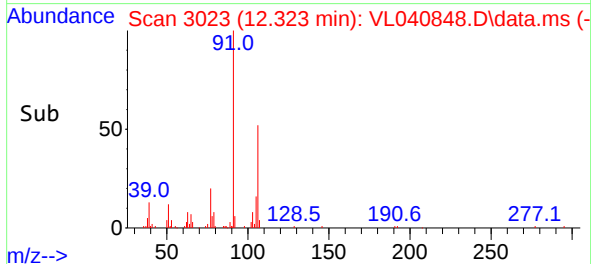
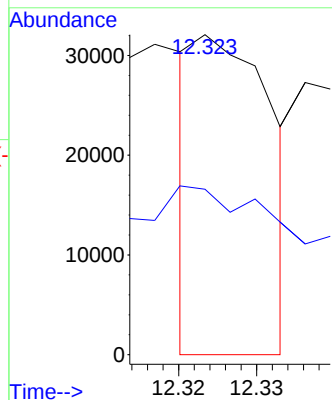
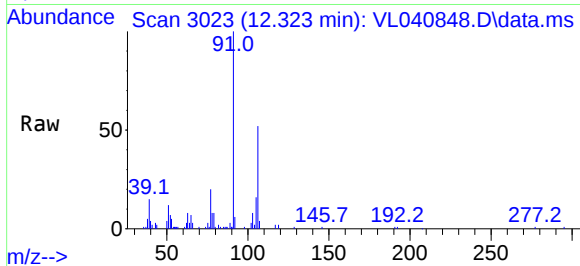




#58
Ethyl Benzene
Concen: 0.075 ppbv
RT: 12.323 min Scan# 3023
Delta R.T. 0.238 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

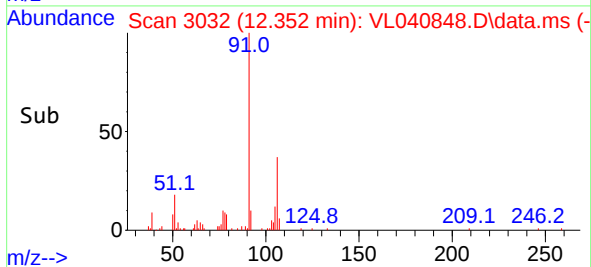
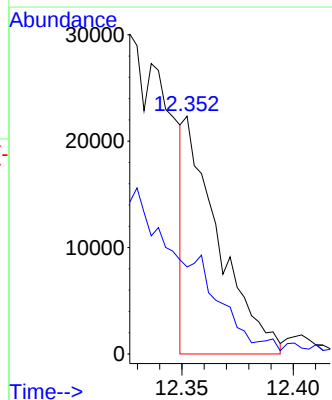
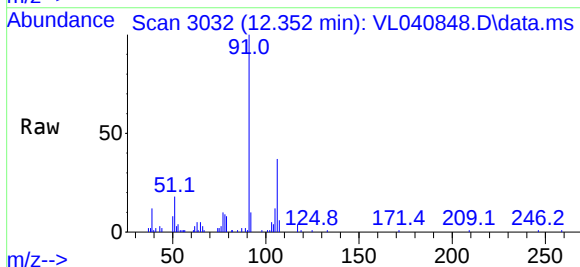
Instrument :
MSVOA_L
ClientSampleId :
OA1

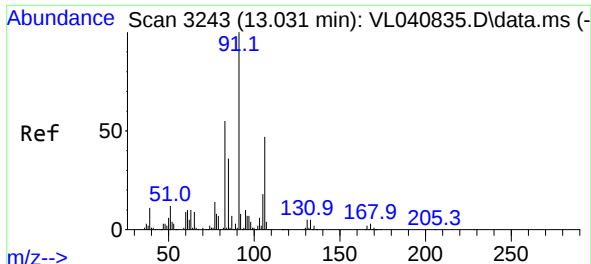
Tgt Ion: 91 Resp: 21970
Ion Ratio Lower Upper
91 100
106 35.5 25.2 37.8



#59
m/p-Xylene
Concen: 0.096 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. -0.016 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 91 Resp: 23843
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.0#

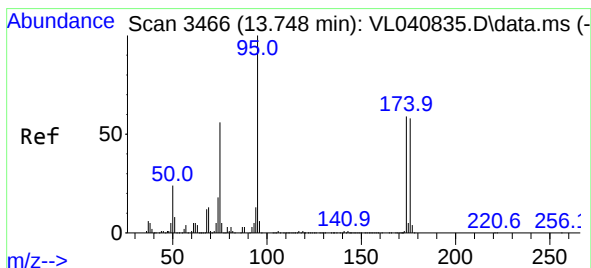
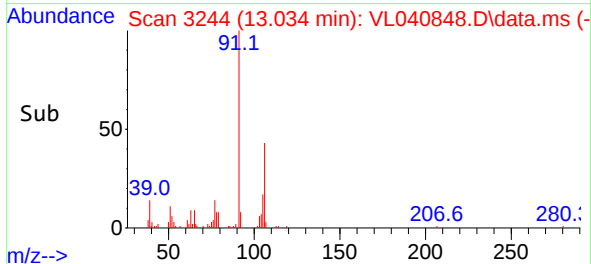
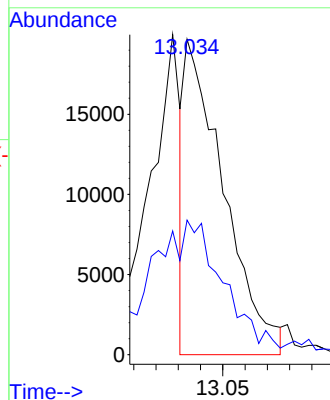
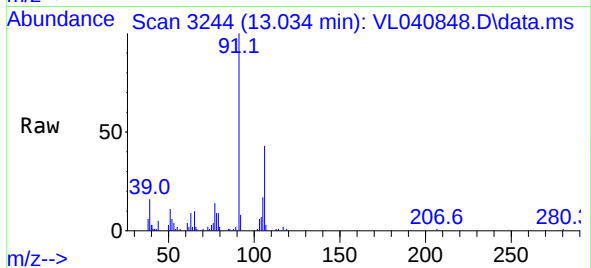




#60
o-Xylene
Concen: 0.101 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.019 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

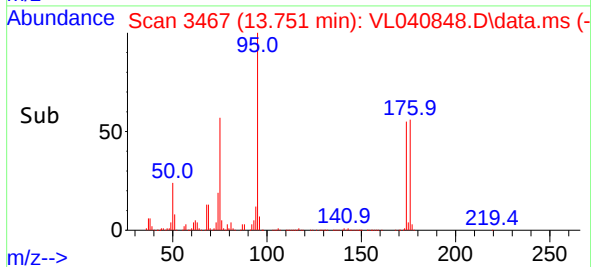
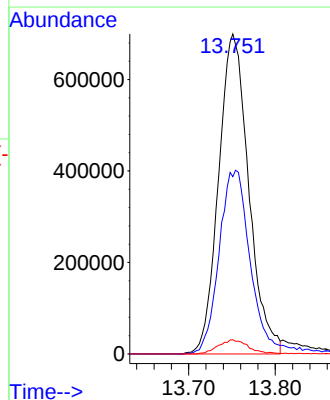
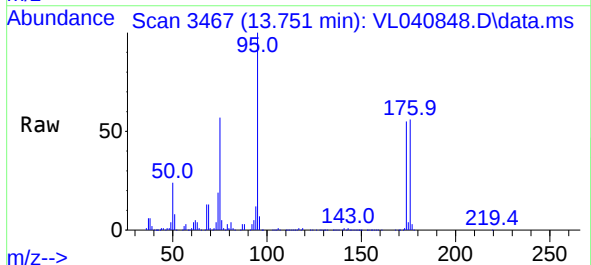
Instrument :
MSVOA_L
ClientSampleId :
OA1

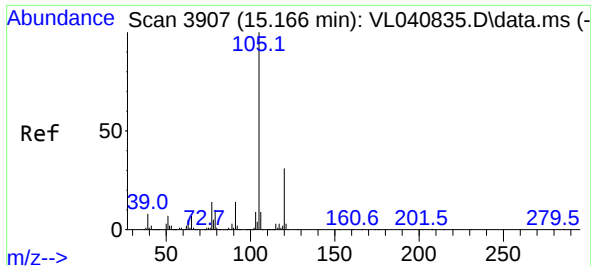
Tgt Ion: 91 Resp: 24035
Ion Ratio Lower Upper
91 100
106 84.9 22.9 68.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.643 ppbv
RT: 13.751 min Scan# 3467
Delta R.T. -0.019 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion: 95 Resp: 1691651
Ion Ratio Lower Upper
95 100
174 61.4 47.5 71.3
175 4.6 3.6 5.4

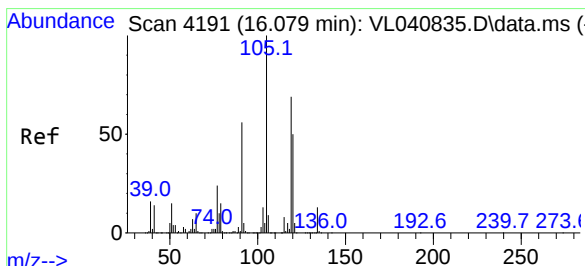
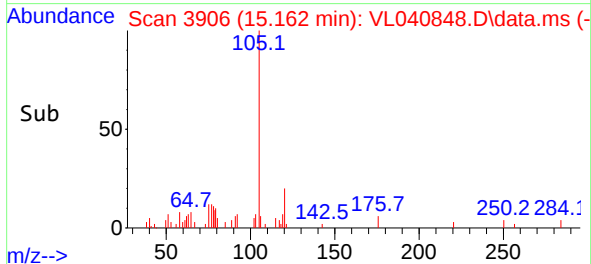
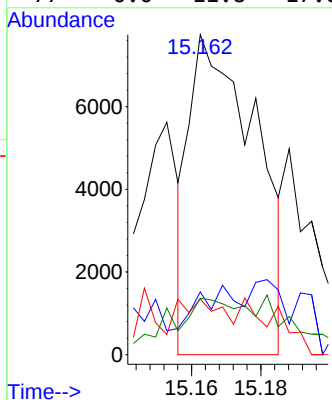
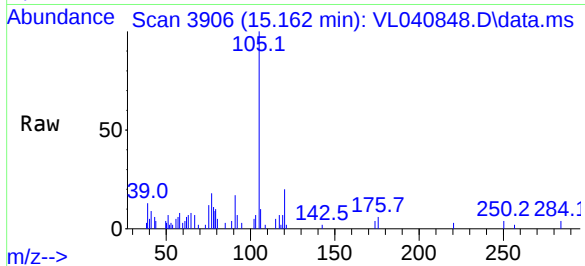




#72
4-Ethyltoluene
Concen: 0.039 ppbv
RT: 15.162 min Scan# 3907
Delta R.T. -0.023 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Instrument :
MSVOA_L
ClientSampleId :
OA1

Tgt Ion:	105	Resp:	10277
Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.5	36.7#
91	0.0	10.6	16.0#
77	0.0	11.8	17.6#



#74
1,2,4-Trimethylbenzene
Concen: 0.064 ppbv
RT: 16.076 min Scan# 4190
Delta R.T. -0.026 min
Lab File: VL040848.D
Acq: 14 Nov 2023 13:16

Tgt Ion:	105	Resp:	16481
Ion	Ratio	Lower	Upper
105	100		
120	29.6	40.2	60.2#
91	12.8	45.7	68.5#
77	15.2	19.2	28.8#

