

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040043.D
 Acq On : 20 Dec 2022 00:45
 Operator : SY/MD
 Sample : N5971-11DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Quant Time: Dec 20 05:18:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

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

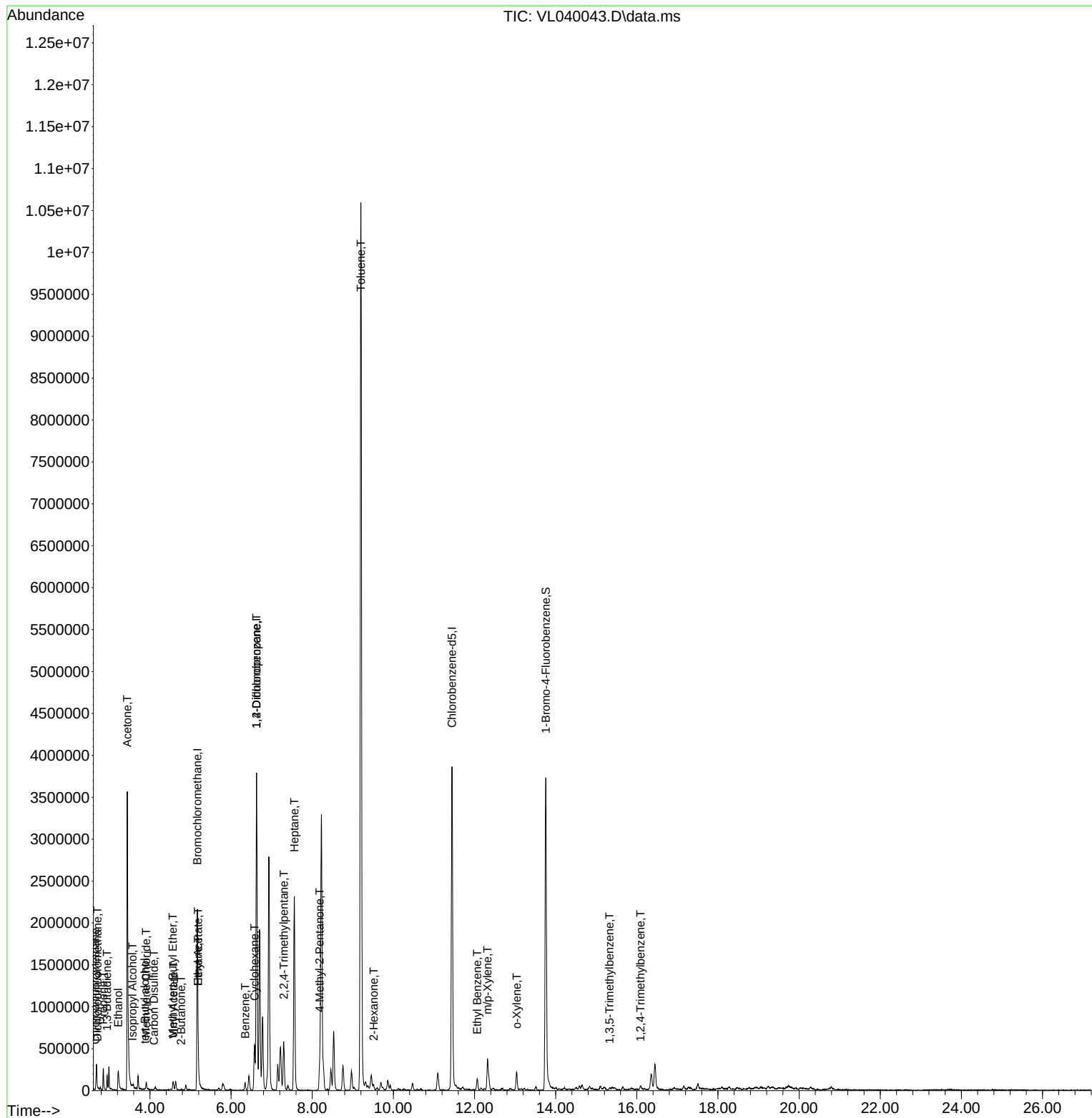
Internal Standards						
1) Bromochloromethane	5.169	49	1055633	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	2975054	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.442	117	2610524	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1964230	9.850	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.706	85	8608	0.044	ppbv #	75
3) Chlorodifluoromethane	2.655	51	7243	0.047	ppbv	98
9) Propene	2.848	41	67054	1.014	ppbv	97
10) Heptane	7.558	43	1115368	6.914	ppbv	100
13) Ethanol	3.218	45	285805	45.942	ppbv	95
15) Acetone	3.443	43	3829950	23.453	ppbv	98
16) 1,3-Butadiene	2.944	39	45018	0.634	ppbv #	24
17) tert-Butyl alcohol	3.877	59	7667	0.048	ppbv #	72
19) Isopropyl Alcohol	3.571	45	17122	0.213	ppbv #	94
20) Methylene Chloride	3.909	84	26726	0.385	ppbv	93
23) Vinyl Acetate	4.581	43	12369	0.239	ppbv #	1
25) Ethyl Acetate	5.189	43	40597	0.144	ppbv #	80
26) Hexane	5.189	57	60153	0.506	ppbv #	36
27) Carbon Disulfide	4.102	76	6515	0.043	ppbv #	64
28) Methyl tert-Butyl Ether	4.565	73	65790	0.470	ppbv	97
30) Cyclohexane	6.578	84	199153	1.892	ppbv	94
34) 2-Butanone	4.771	43	6173	0.038	ppbv #	42
36) Benzene	6.349	78	72585	0.273	ppbv	95
39) 1,2-Dichloropropane	6.629	63	718622	7.216	ppbv #	23
44) 2,2,4-Trimethylpentane	7.301	57	50124	0.115	ppbv #	1
50) 4-Methyl-2-Pentanone	8.185	43	17040	0.065	ppbv #	74
51) 2-Hexanone	9.516	43	11528	0.056	ppbv #	28
53) Toluene	9.201	91	9058436	30.792	ppbv	95
58) Ethyl Benzene	12.066	91	116319	0.314	ppbv	90
59) m/p-Xylene	12.320	91	363087	1.124	ppbv	95
60) o-Xylene	13.040	91	171499	0.554	ppbv	100
73) 1,3,5-Trimethylbenzene	15.330	105	10365	0.033	ppbv #	85
74) 1,2,4-Trimethylbenzene	16.092	105	14395	0.042	ppbv #	63

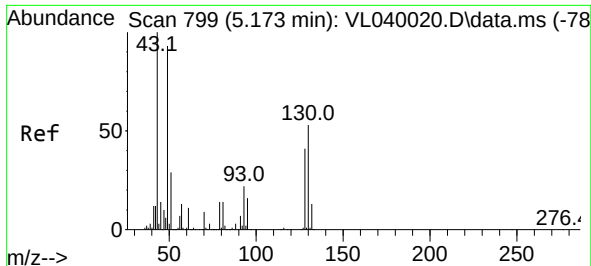
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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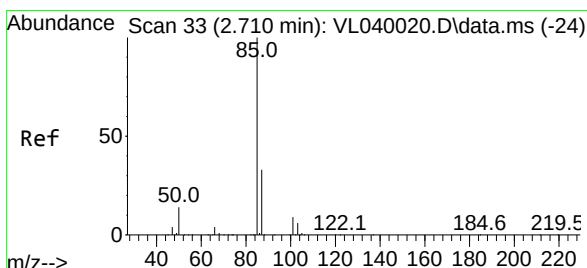
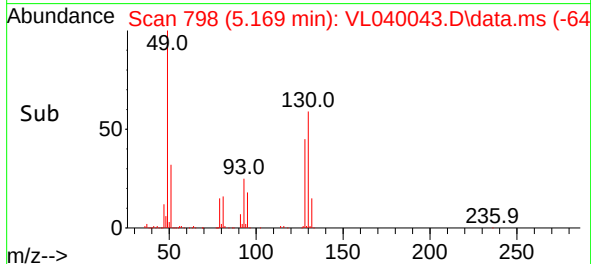
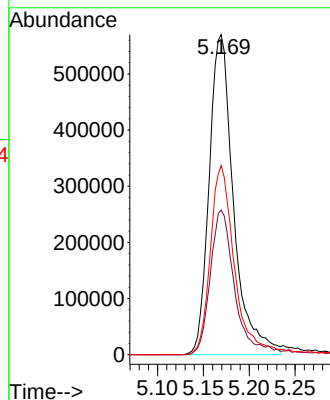
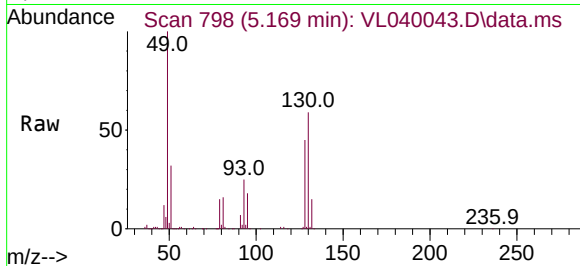




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 799
 Delta R.T. -0.004 min
 Lab File: VL040043.D
 Acq: 20 Dec 2022 00:45

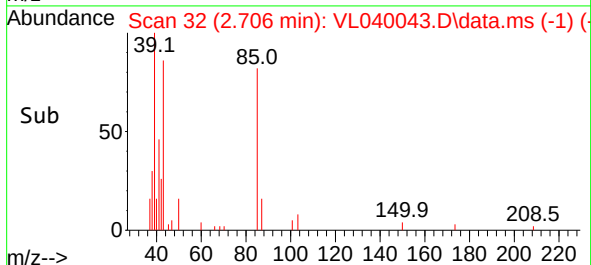
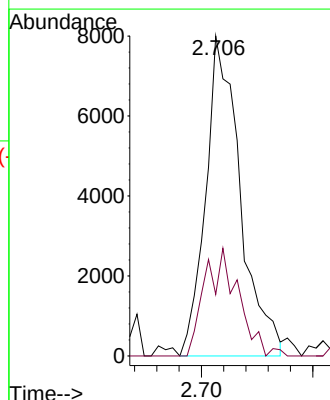
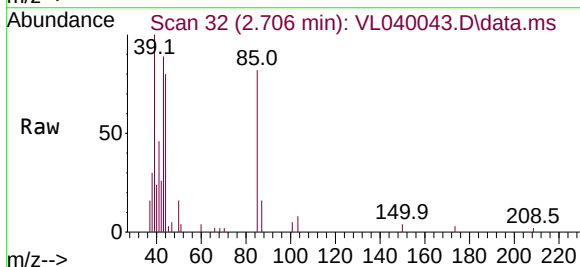
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

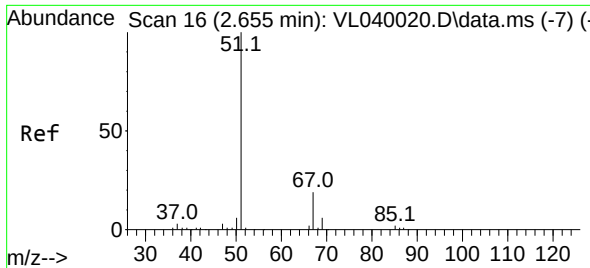
Tgt Ion: 49 Resp: 1055633
 Ion Ratio Lower Upper
 49 100
 128 46.9 22.4 67.3
 130 60.4 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.044 ppbv
 RT: 2.706 min Scan# 32
 Delta R.T. -0.003 min
 Lab File: VL040043.D
 Acq: 20 Dec 2022 00:45

Tgt Ion: 85 Resp: 8608
 Ion Ratio Lower Upper
 85 100
 87 19.2 26.6 40.0#

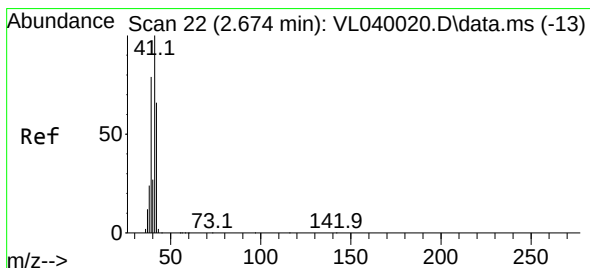
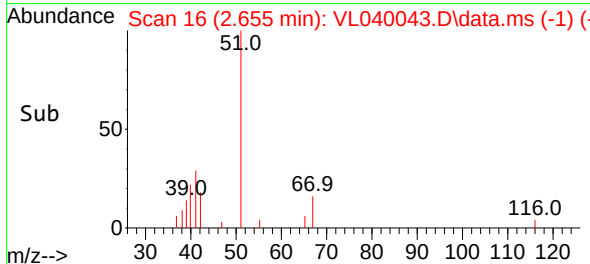
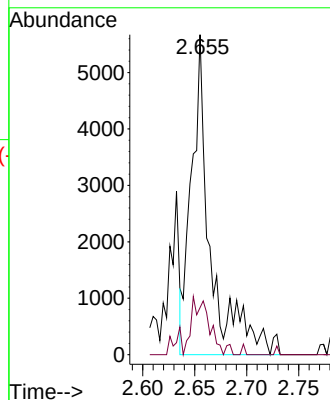
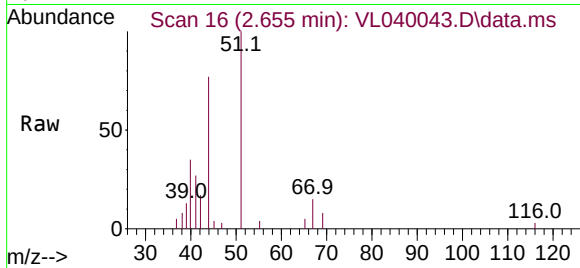




#3
Chlorodifluoromethane
Concen: 0.047 ppbv
RT: 2.655 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

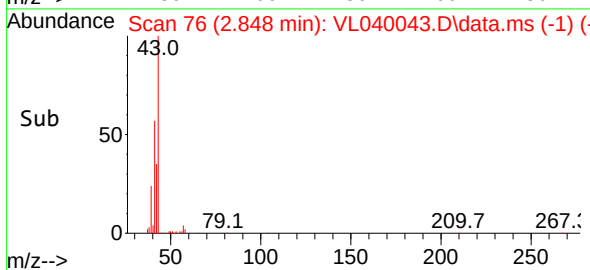
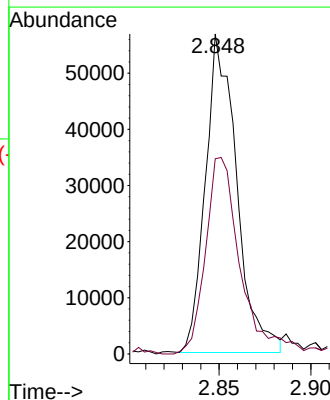
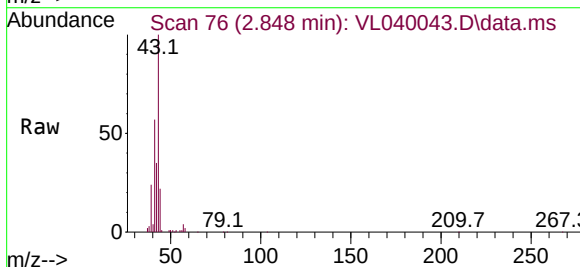
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

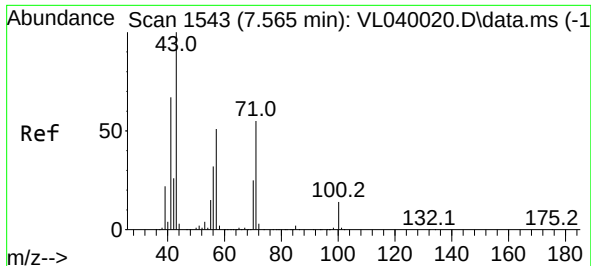
Tgt Ion: 51 Resp: 7243
Ion Ratio Lower Upper
51 100
67 19.9 15.3 22.9



#9
Propene
Concen: 1.014 ppbv
RT: 2.848 min Scan# 76
Delta R.T. 0.174 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 41 Resp: 67054
Ion Ratio Lower Upper
41 100
42 70.6 54.8 82.2





#10

Heptane

Concen: 6.914 ppbv

RT: 7.558 min Scan# 11

Delta R.T. -0.006 min

Lab File: VL040043.D

Acq: 20 Dec 2022 00:45

Instrument :

MSVOA_L

ClientSampleId :

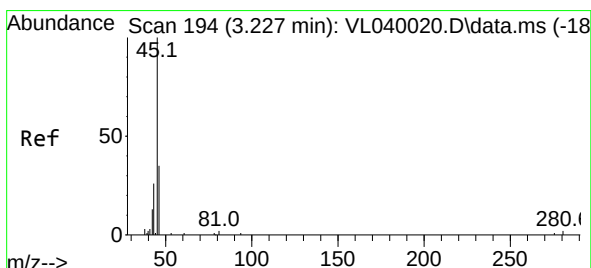
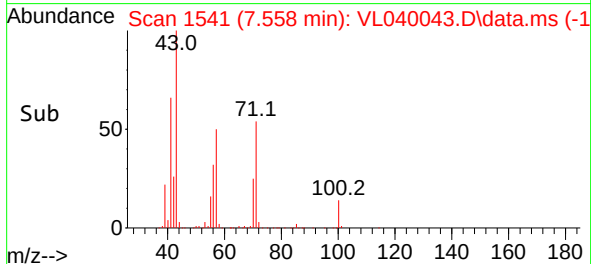
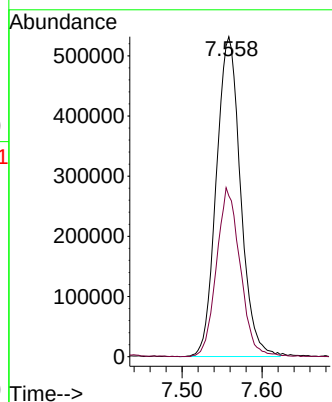
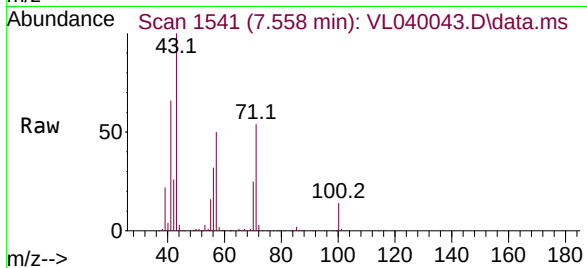
SS-2DL

Tgt Ion: 43 Resp: 1115368

Ion Ratio Lower Upper

43 100

57 51.7 41.2 61.8



#13

Ethanol

Concen: 45.942 ppbv

RT: 3.218 min Scan# 191

Delta R.T. -0.010 min

Lab File: VL040043.D

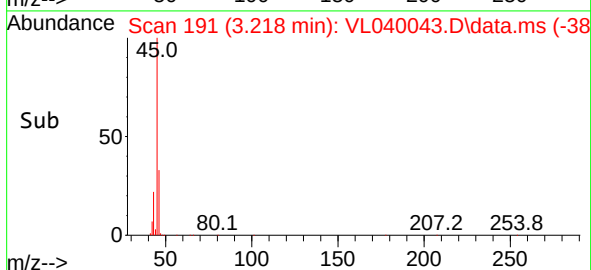
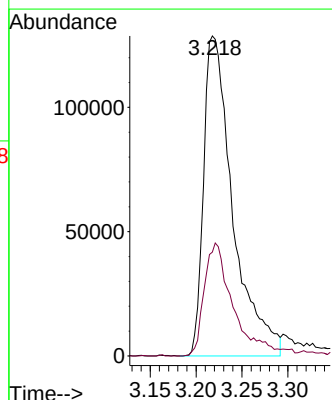
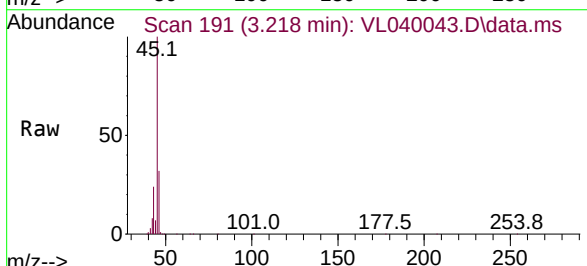
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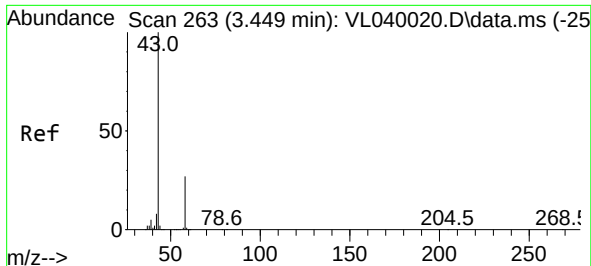
Tgt Ion: 45 Resp: 285805

Ion Ratio Lower Upper

45 100

46 37.1 13.7 54.7

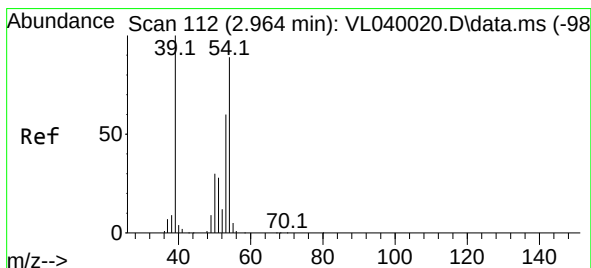
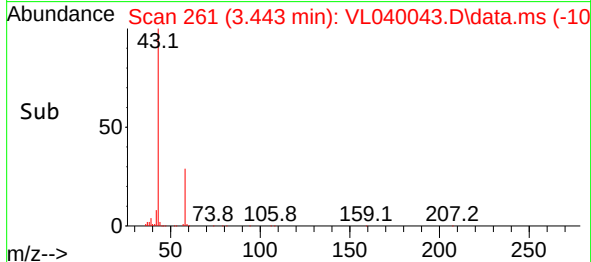
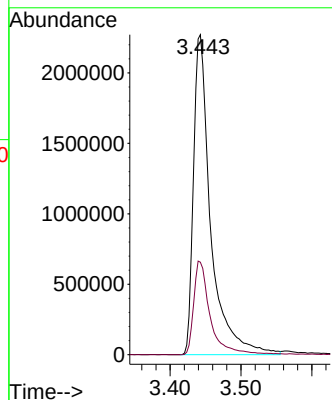
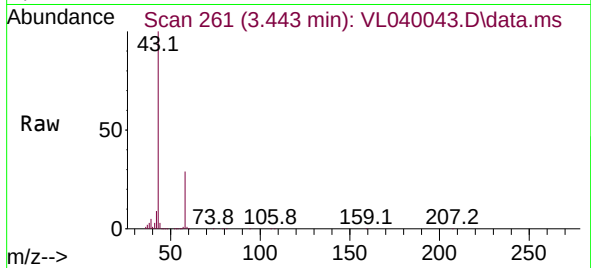




#15
Acetone
Concen: 23.453 ppbv
RT: 3.443 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

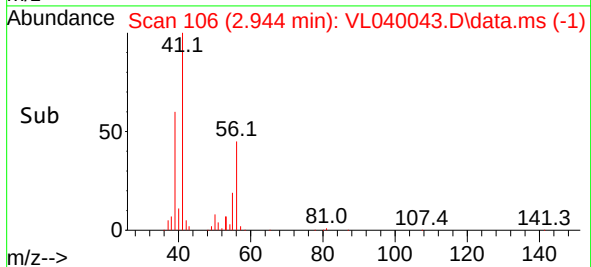
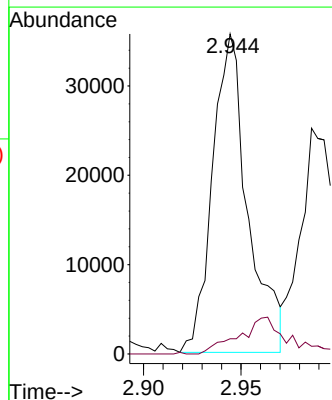
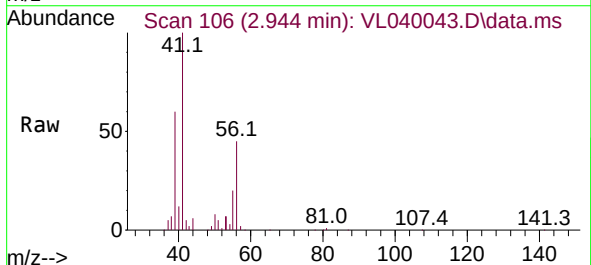
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

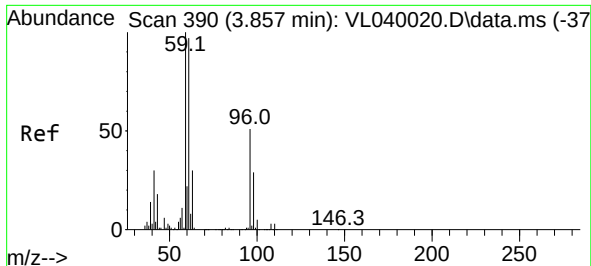
Tgt Ion: 43 Resp: 3829950
Ion Ratio Lower Upper
43 100
58 28.5 21.8 32.8



#16
1,3-Butadiene
Concen: 0.634 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.019 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 39 Resp: 45018
Ion Ratio Lower Upper
39 100
54 16.1 68.3 102.5#





#17

tert-Butyl alcohol

Concen: 0.048 ppbv

RT: 3.877 min Scan# 301

Delta R.T. 0.019 min

Lab File: VL040043.D

Acq: 20 Dec 2022 00:45

Instrument :

MSVOA_L

ClientSampleId :

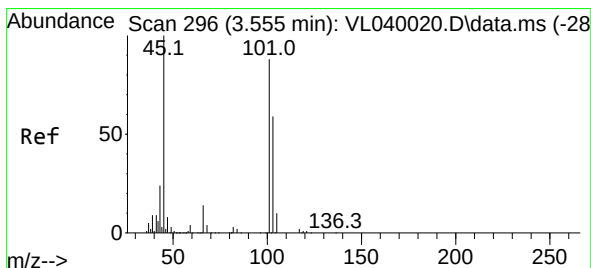
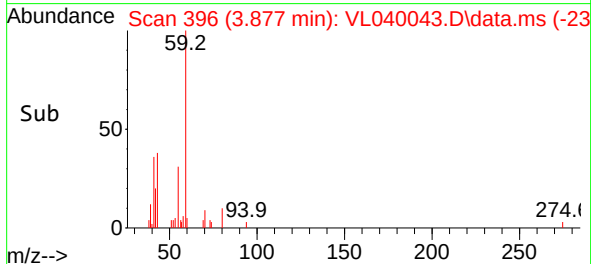
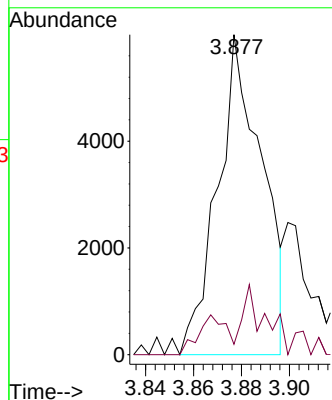
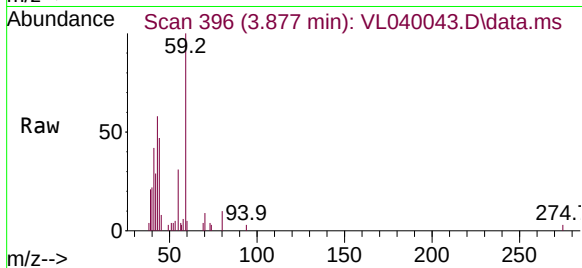
SS-2DL

Tgt Ion: 59 Resp: 7667

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 0.213 ppbv

RT: 3.571 min Scan# 301

Delta R.T. 0.016 min

Lab File: VL040043.D

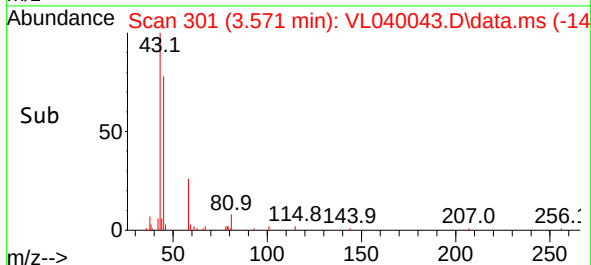
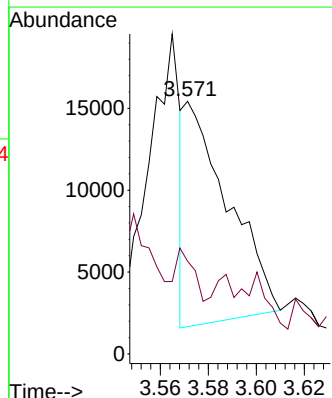
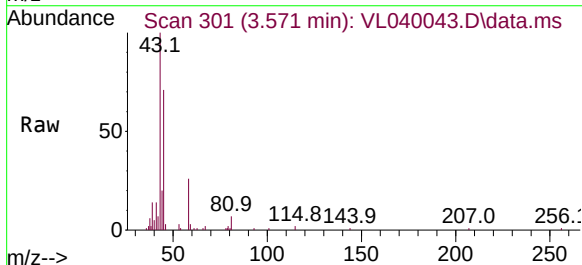
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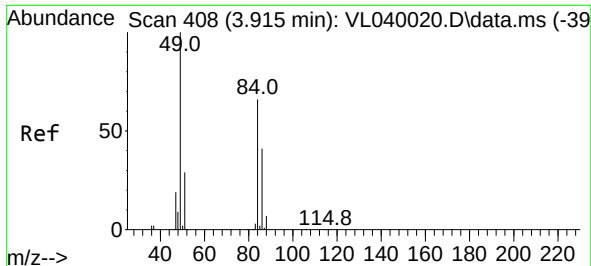
Tgt Ion: 45 Resp: 17122

Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

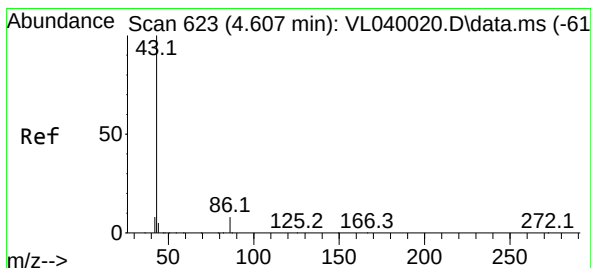
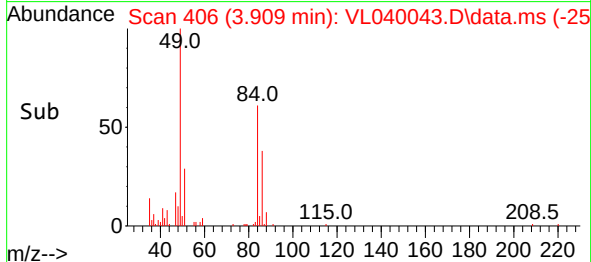
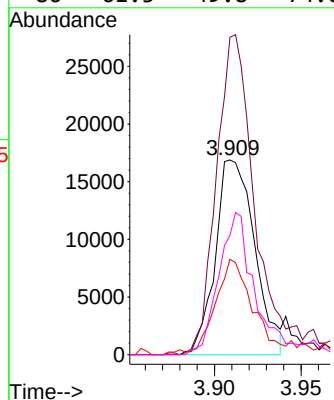
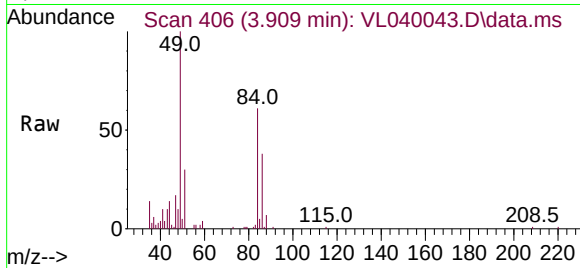




#20
Methylene Chloride
Concen: 0.385 ppbv
RT: 3.909 min Scan# 408
Delta R.T. -0.006 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

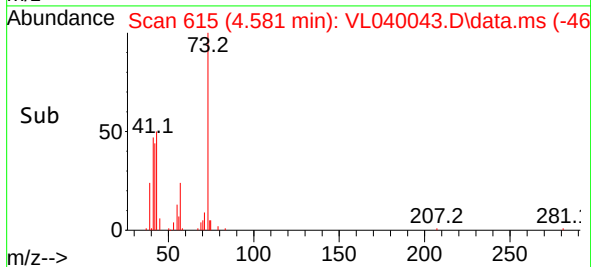
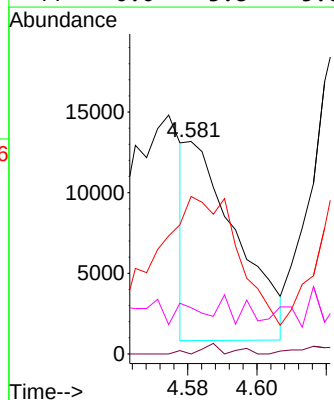
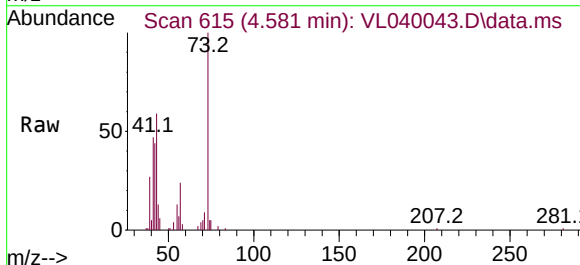
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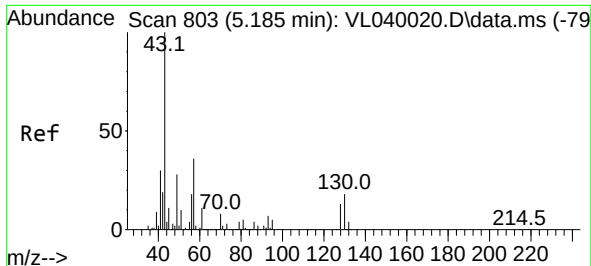
Tgt Ion: 84 Resp: 26726
Ion Ratio Lower Upper
84 100
49 163.0 120.5 180.7
51 46.4 35.2 52.8
86 61.3 49.8 74.6



#23
Vinyl Acetate
Concen: 0.239 ppbv
RT: 4.581 min Scan# 615
Delta R.T. -0.026 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 43 Resp: 12369
Ion Ratio Lower Upper
43 100
86 0.0 5.3 7.9#
42 83.1 7.4 11.0#
44 0.0 3.8 5.6#

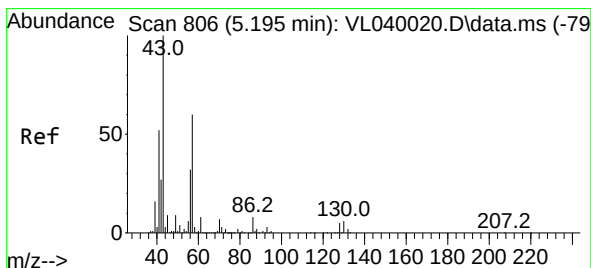
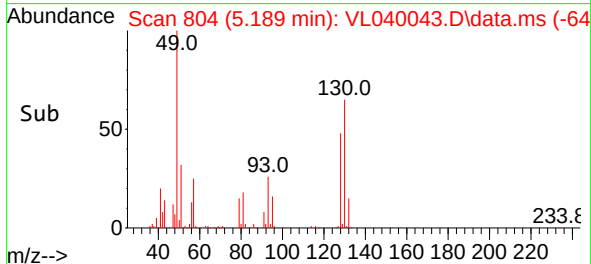
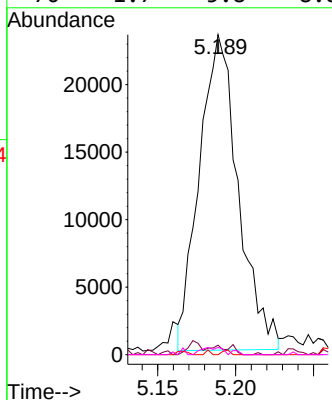
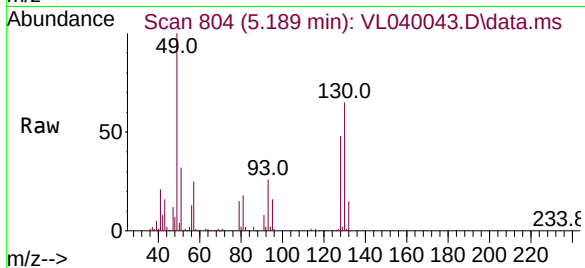




#25
Ethyl Acetate
Concen: 0.144 ppbv
RT: 5.189 min Scan# 804
Delta R.T. 0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

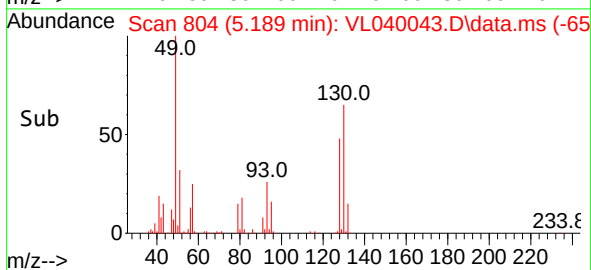
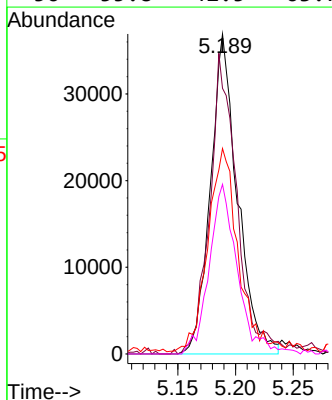
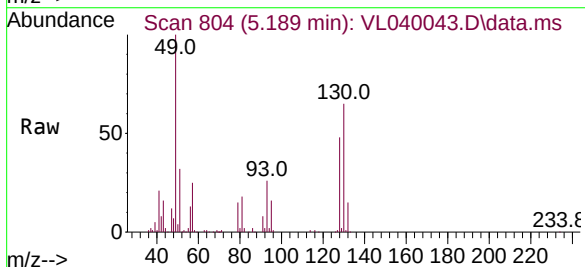
Instrument :
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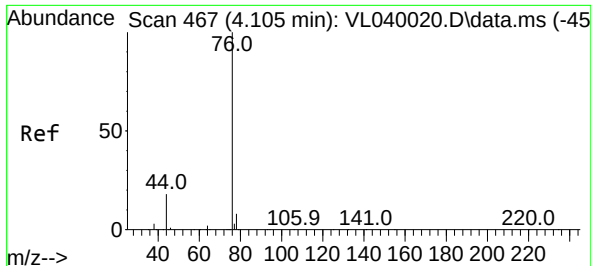
Tgt Ion: 43	Resp: 40597
Ion Ratio	Lower Upper
43 100	
45 4.2	8.6 12.8#
61 0.8	8.5 12.7#
70 1.7	5.8 8.8#



#26
Hexane
Concen: 0.506 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 57	Resp: 60153
Ion Ratio	Lower Upper
57 100	
41 97.0	72.1 108.1
43 72.1	192.1 288.1#
56 55.8	42.5 63.7

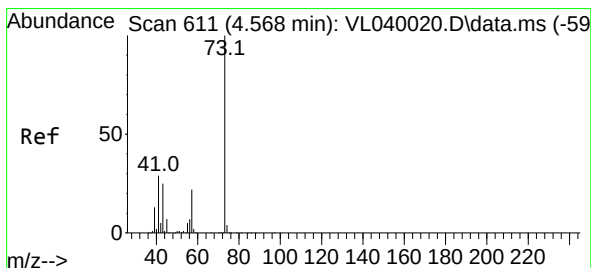
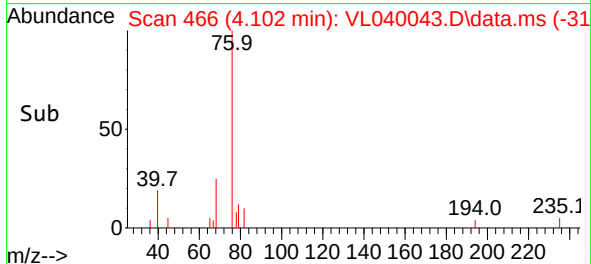
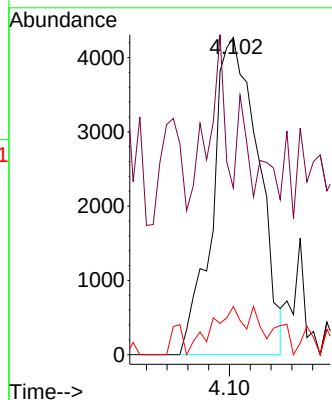
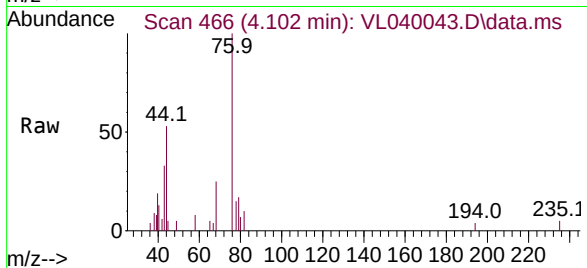




#27
Carbon Disulfide
Concen: 0.043 ppbv
RT: 4.102 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

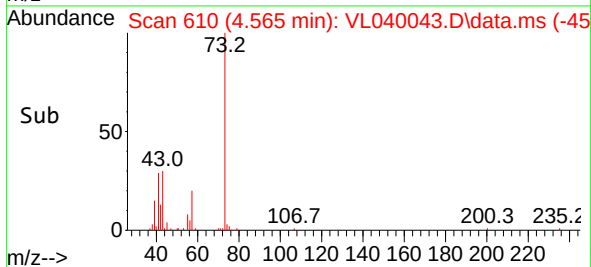
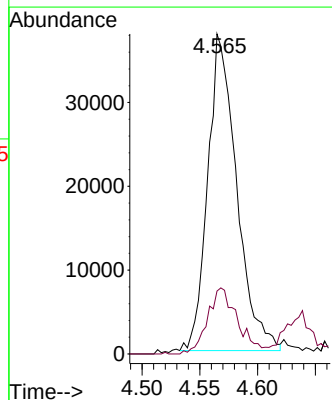
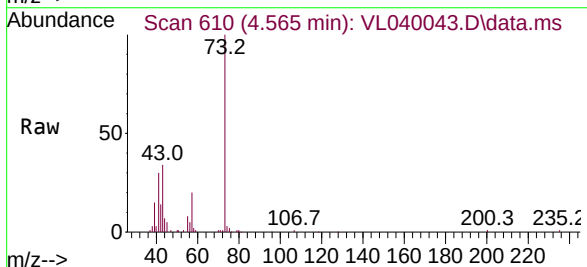
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

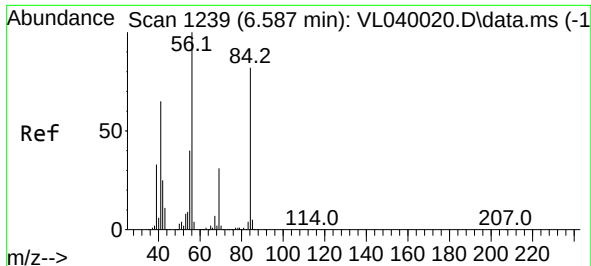
Tgt Ion: 76 Resp: 6515
Ion Ratio Lower Upper
76 100
44 35.9 15.3 22.9#
78 22.2 7.8 11.6#



#28
Methyl tert-Butyl Ether
Concen: 0.470 ppbv
RT: 4.565 min Scan# 610
Delta R.T. -0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 73 Resp: 65790
Ion Ratio Lower Upper
73 100
57 21.7 18.6 28.0

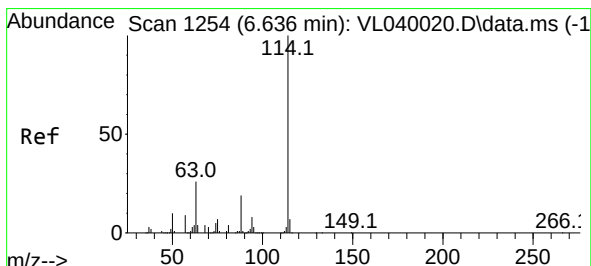
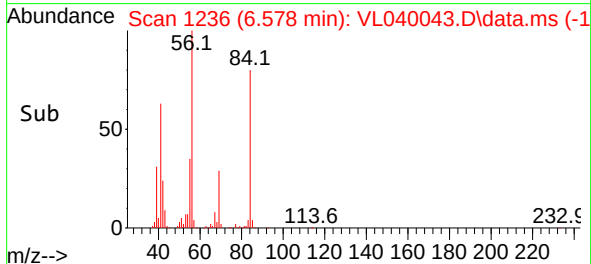
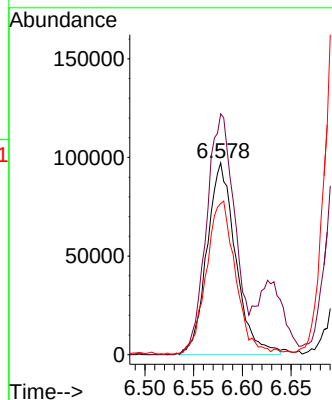
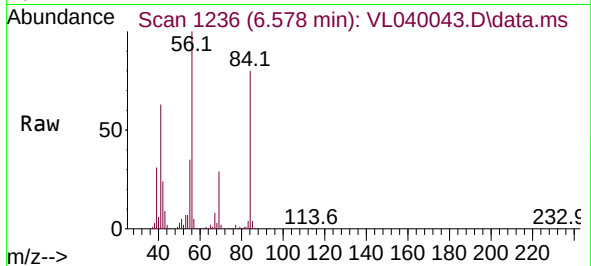




#30
Cyclohexane
Concen: 1.892 ppbv
RT: 6.578 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

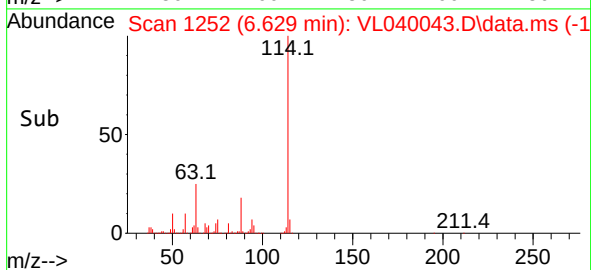
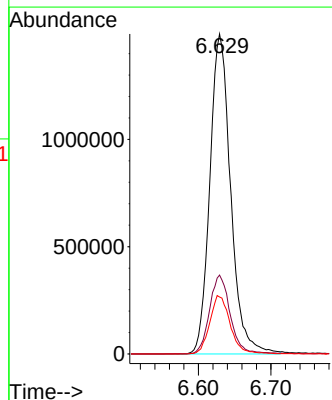
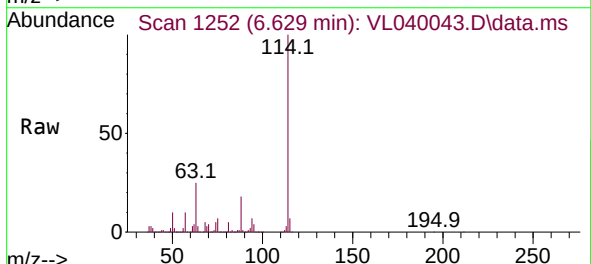
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

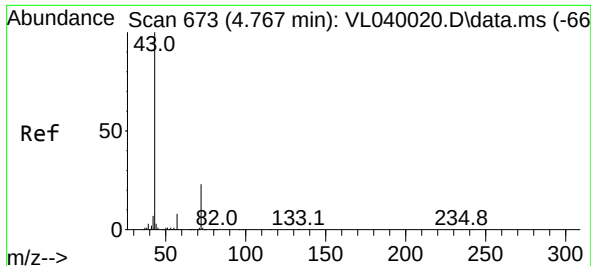
Tgt Ion: 84 Resp: 199153
Ion Ratio Lower Upper
84 100
56 127.8 110.2 165.4
41 81.8 67.8 101.8



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.629 min Scan# 1252
Delta R.T. -0.006 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 114 Resp: 2975054
Ion Ratio Lower Upper
114 100
63 24.8 20.2 30.2
88 18.0 14.6 21.8

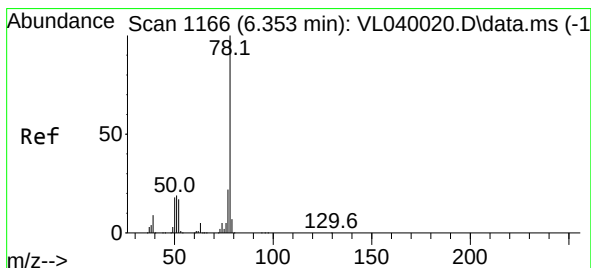
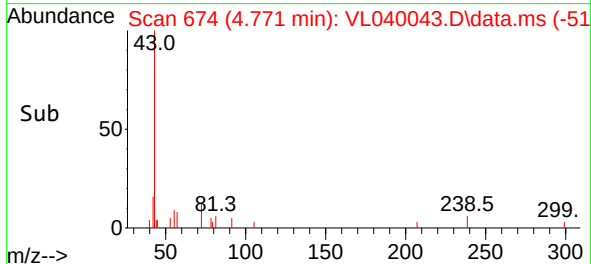
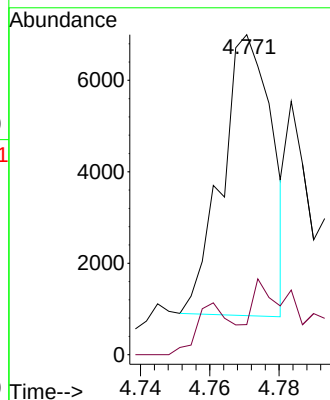
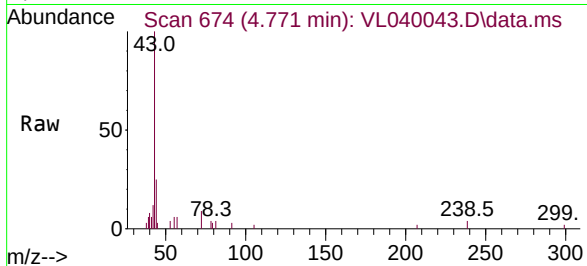




#34
2-Butanone
Concen: 0.038 ppbv
RT: 4.771 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

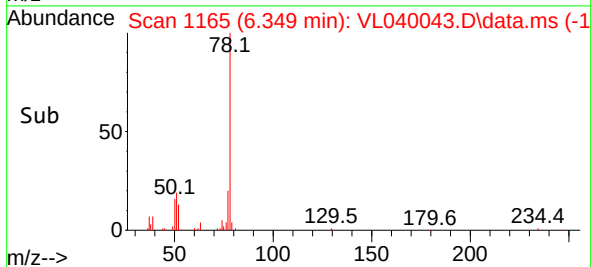
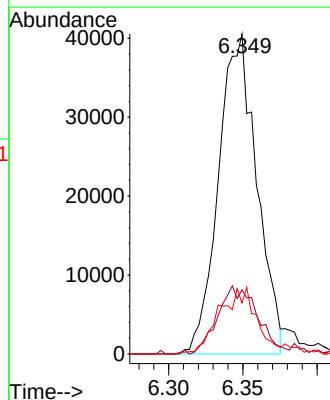
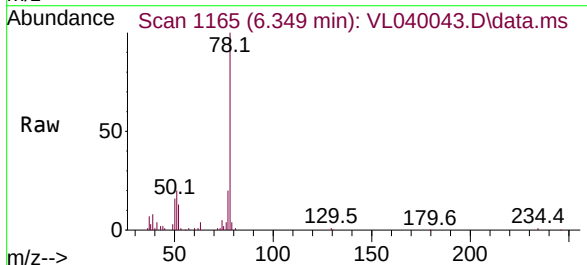
Instrument :
MSVOA_1
ClientSampleId :
SS-2DL

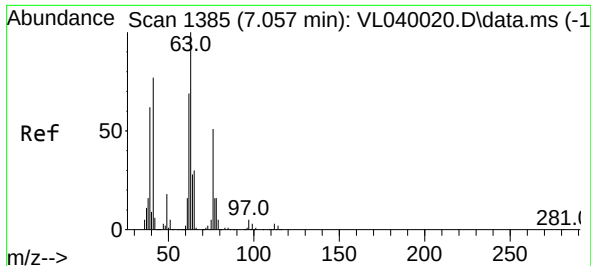
Tgt Ion: 43 Resp: 6173
Ion Ratio Lower Upper
43 100
72 50.4 18.0 27.0#



#36
Benzene
Concen: 0.273 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. -0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 78 Resp: 72585
Ion Ratio Lower Upper
78 100
77 19.6 17.5 26.3
50 15.4 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.216 ppbv

RT: 6.629 min Scan# 11

Delta R.T. -0.428 min

Lab File: VL040043.D

Acq: 20 Dec 2022 00:45

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

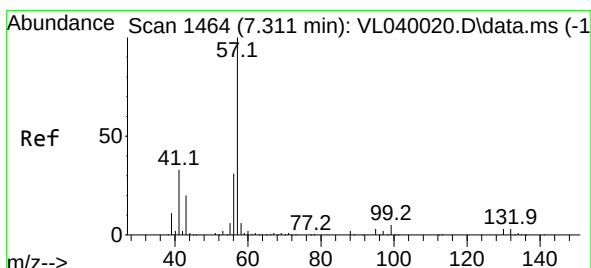
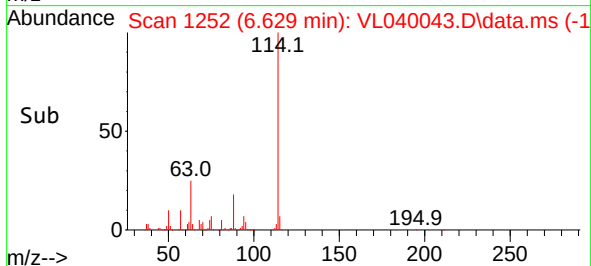
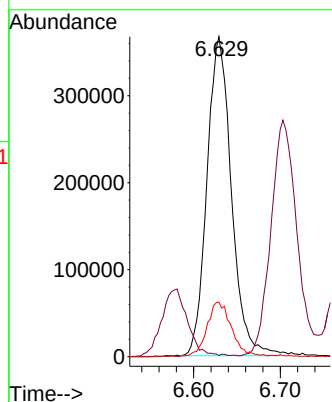
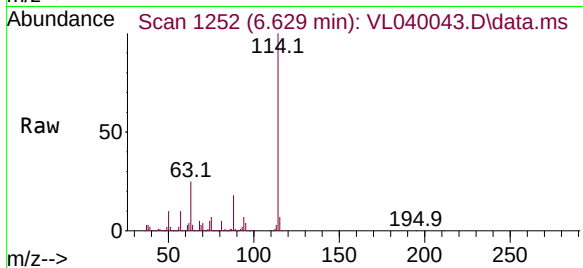
Tgt Ion: 63 Resp: 718622

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 17.0 55.4 83.2#



#44

2,2,4-Trimethylpentane

Concen: 0.115 ppbv

RT: 7.301 min Scan# 1461

Delta R.T. -0.010 min

Lab File: VL040043.D

Acq: 20 Dec 2022 00:45

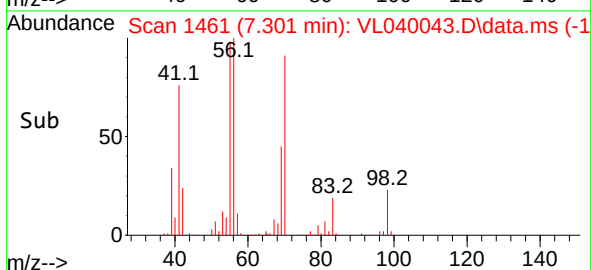
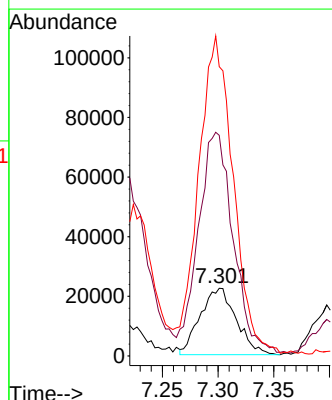
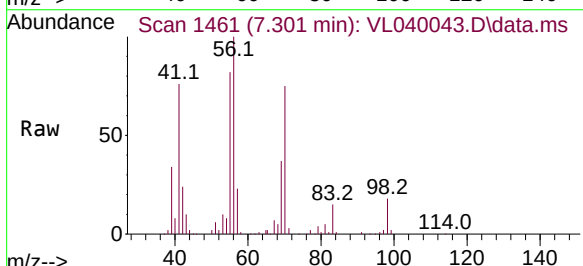
Tgt Ion: 57 Resp: 50124

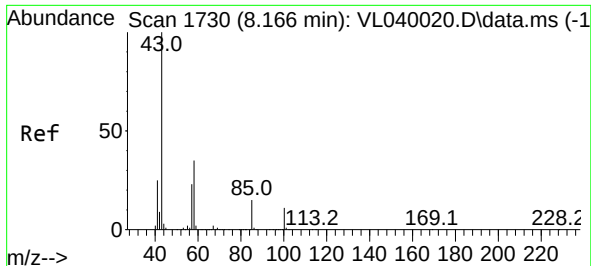
Ion Ratio Lower Upper

57 100

41 322.1 26.2 39.4#

56 467.5 25.1 37.7#

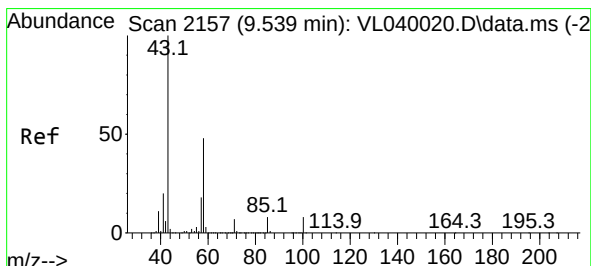
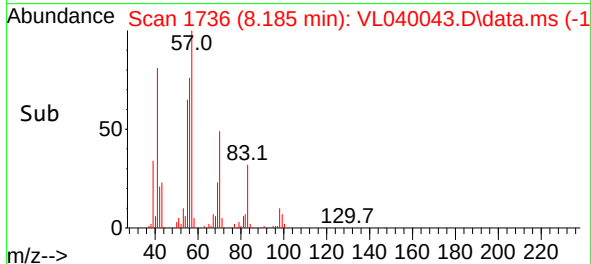
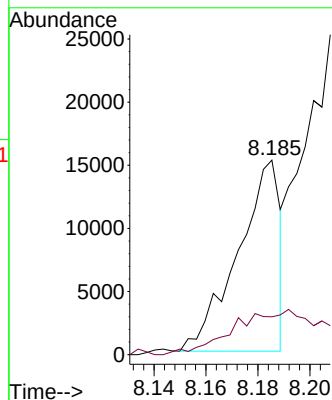
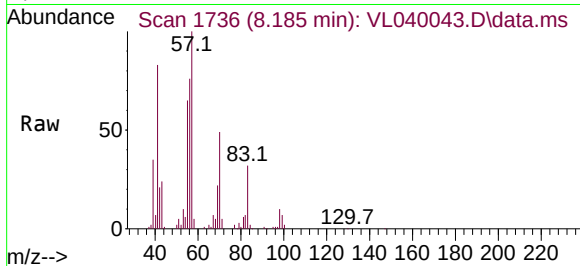




#50
 4-Methyl-2-Pentanone
 Concen: 0.065 ppbv
 RT: 8.185 min Scan# 1736
 Delta R.T. 0.019 min
 Lab File: VL040043.D
 Acq: 20 Dec 2022 00:45

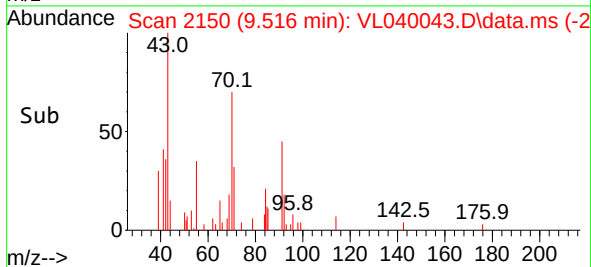
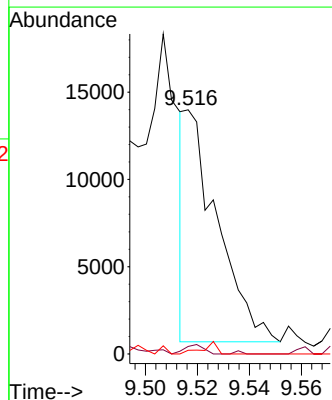
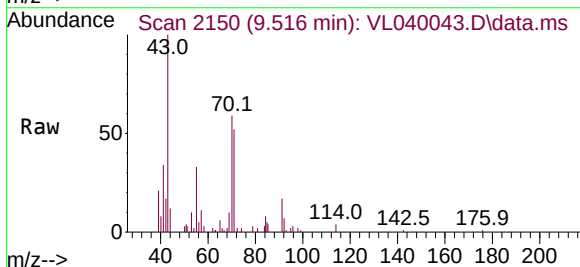
Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

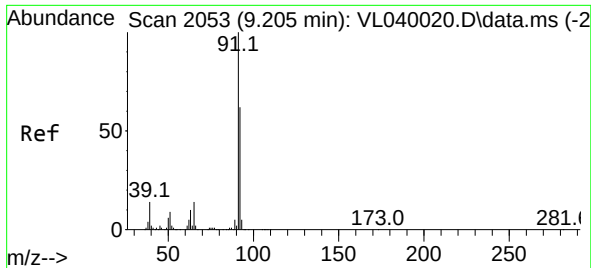
Tgt Ion: 43 Resp: 17040
 Ion Ratio Lower Upper
 43 100
 58 51.2 29.0 43.4#



#51
 2-Hexanone
 Concen: 0.056 ppbv
 RT: 9.516 min Scan# 2150
 Delta R.T. -0.022 min
 Lab File: VL040043.D
 Acq: 20 Dec 2022 00:45

Tgt Ion: 43 Resp: 11528
 Ion Ratio Lower Upper
 43 100
 58 0.0 39.4 59.2#
 98 2.3 0.2 0.4#

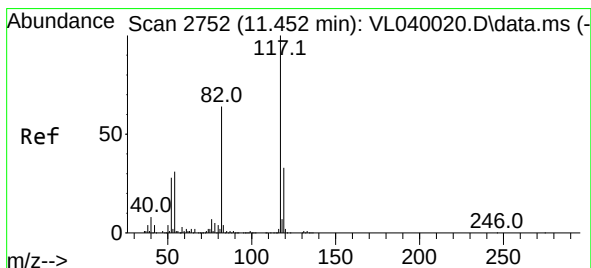
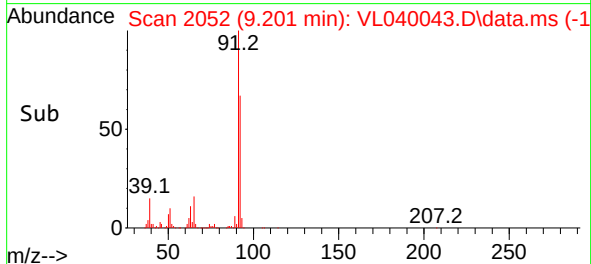
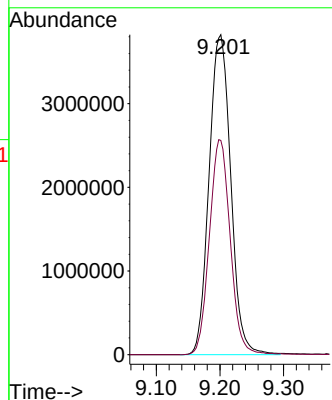
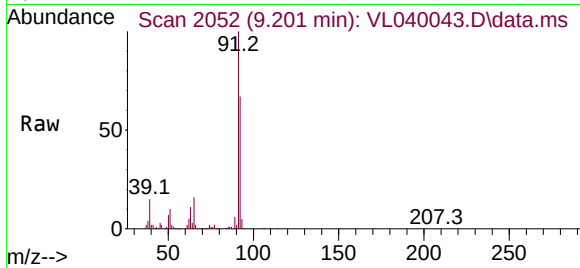




#53
Toluene
Concen: 30.792 ppbv
RT: 9.201 min Scan# 2053
Delta R.T. -0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

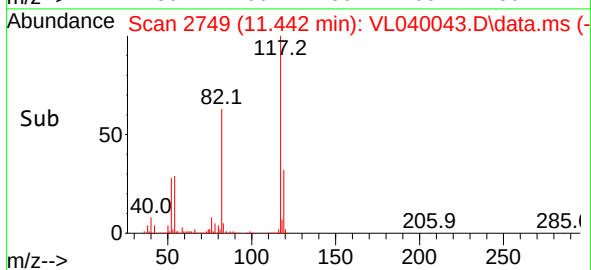
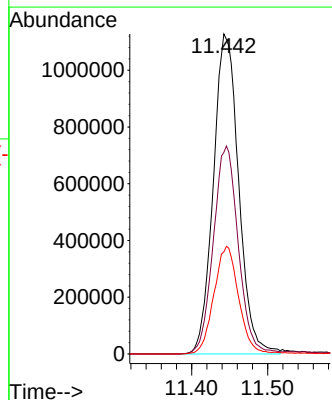
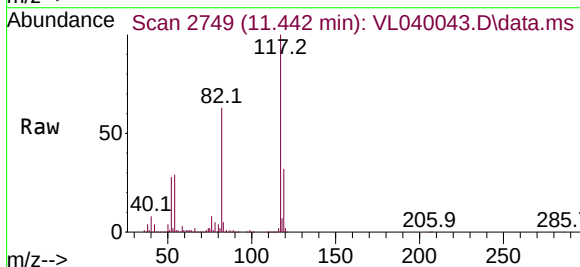
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

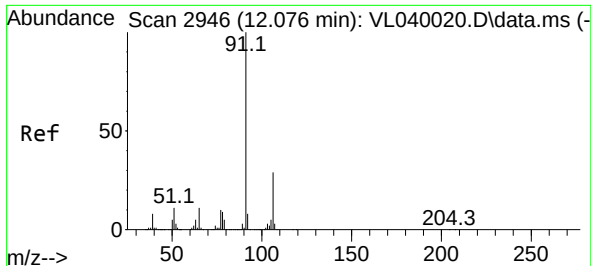
Tgt Ion: 91 Resp: 9058436
Ion Ratio Lower Upper
91 100
92 64.9 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.442 min Scan# 2749
Delta R.T. -0.010 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 117 Resp: 2610524
Ion Ratio Lower Upper
117 100
82 65.3 51.2 76.8
119 33.3 23.2 34.8

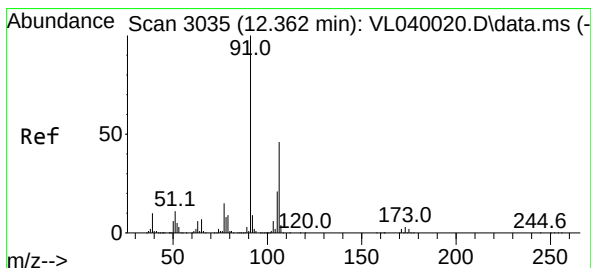
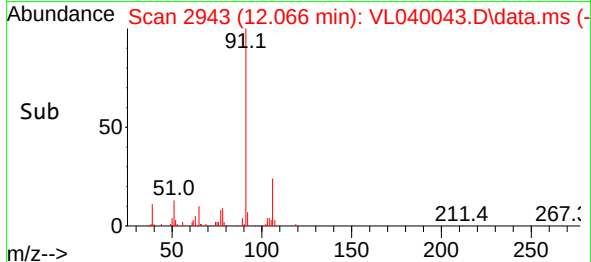
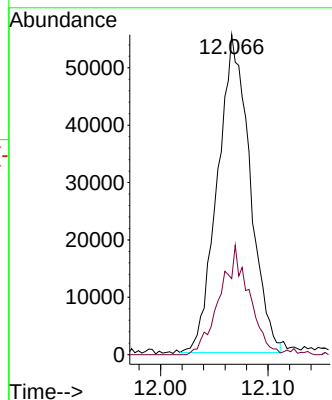
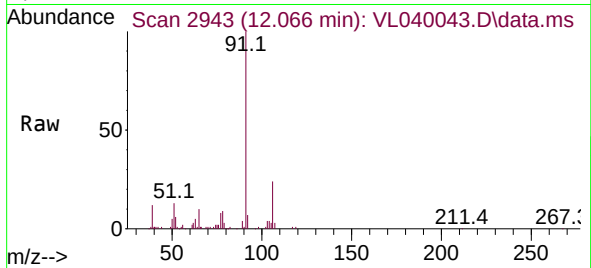




#58
Ethyl Benzene
Concen: 0.314 ppbv
RT: 12.066 min Scan# 2946
Delta R.T. -0.010 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

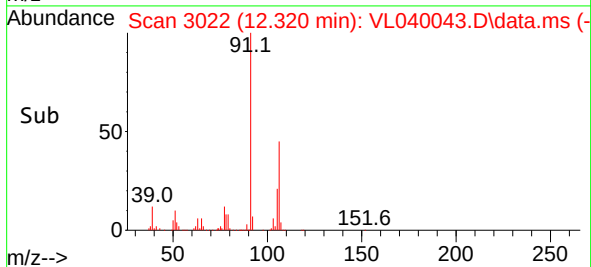
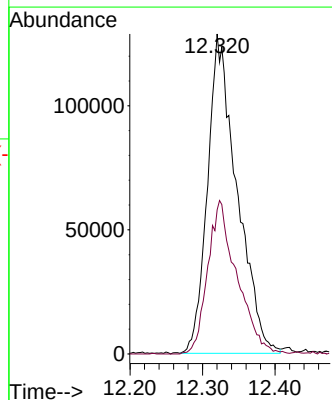
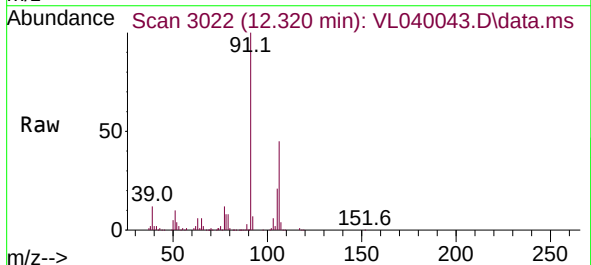
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

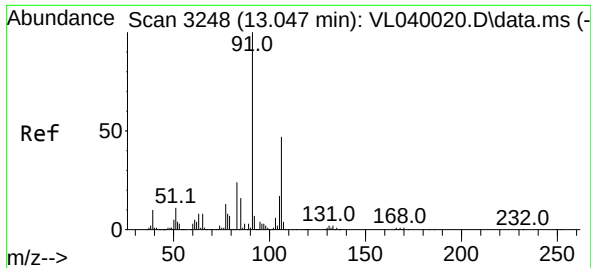
Tgt Ion: 91 Resp: 116319
Ion Ratio Lower Upper
91 100
106 23.9 23.5 35.3



#59
m/p-Xylene
Concen: 1.124 ppbv
RT: 12.320 min Scan# 3022
Delta R.T. -0.042 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 91 Resp: 363087
Ion Ratio Lower Upper
91 100
106 47.9 35.5 53.3

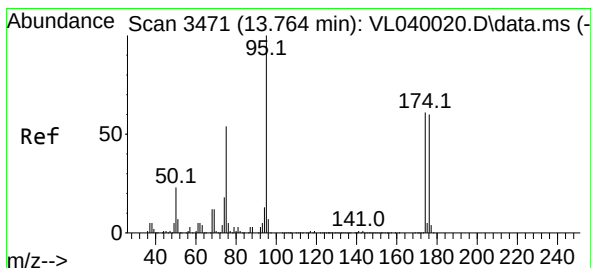
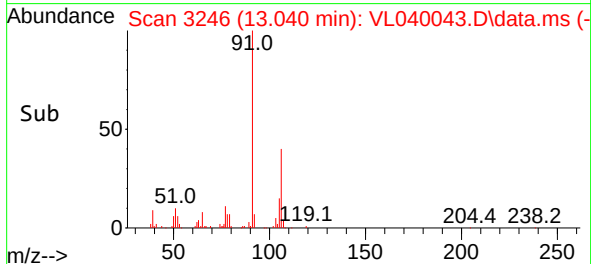
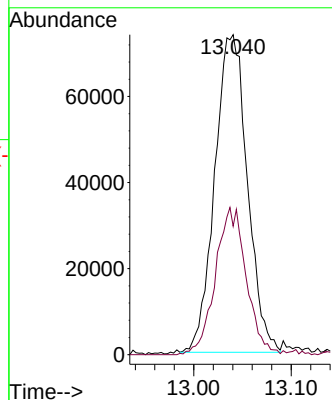
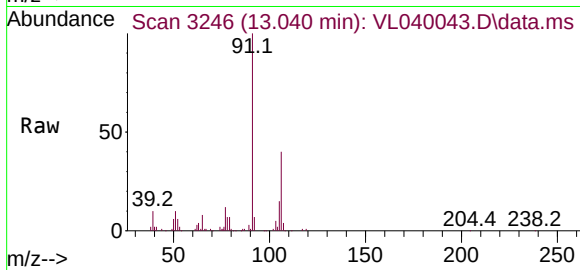




#60
o-Xylene
Concen: 0.554 ppbv
RT: 13.040 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

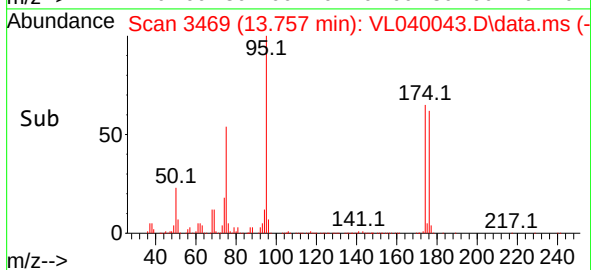
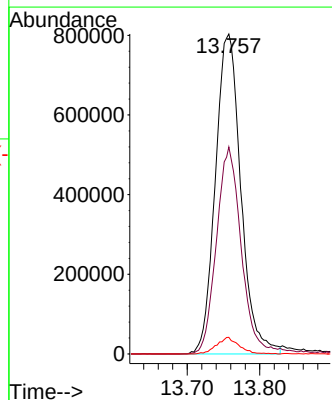
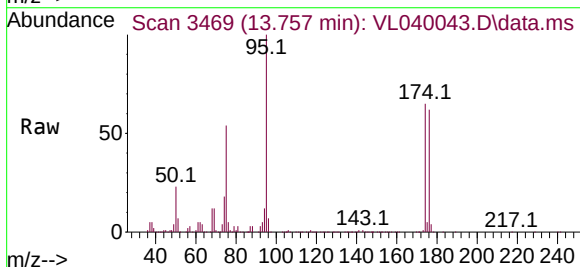
Instrument :
MSVOA_1
ClientSampleId :
SS-2DL

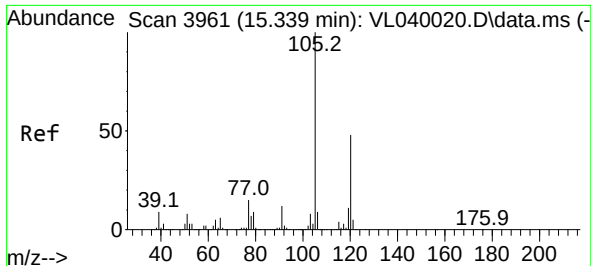
Tgt Ion: 91 Resp: 171499
Ion Ratio Lower Upper
91 100
106 44.5 22.4 67.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.850 ppbv
RT: 13.757 min Scan# 3469
Delta R.T. -0.006 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion: 95 Resp: 1964230
Ion Ratio Lower Upper
95 100
174 64.1 48.6 73.0
175 4.6 3.4 5.2

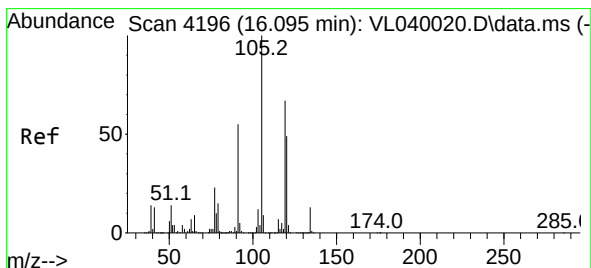
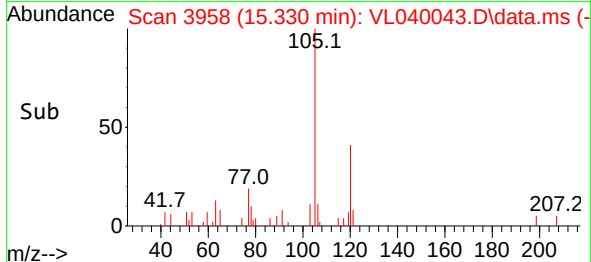
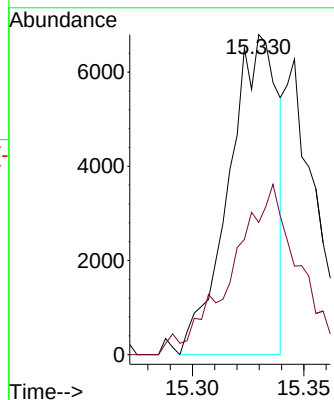
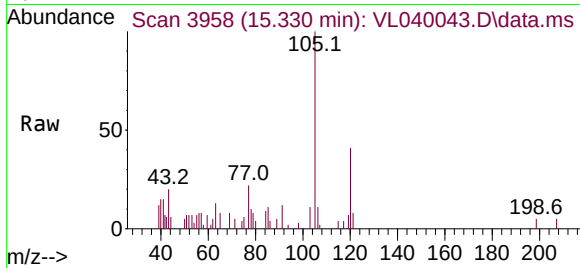




#73
1,3,5-Trimethylbenzene
Concen: 0.033 ppbv
RT: 15.330 min Scan# 3961
Delta R.T. -0.010 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tgt Ion:105 Resp: 10365
Ion Ratio Lower Upper
105 100
120 37.8 38.4 57.6#



#74
1,2,4-Trimethylbenzene
Concen: 0.042 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. -0.003 min
Lab File: VL040043.D
Acq: 20 Dec 2022 00:45

Tgt Ion:105 Resp: 14395
Ion Ratio Lower Upper
105 100
120 39.1 39.3 58.9#
91 9.5 44.2 66.4#
77 13.3 18.8 28.2#

