

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL040523\
 Data File : VL040316.D
 Acq On : 5 Apr 2023 14:16
 Operator : SY/MD
 Sample : 02168-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

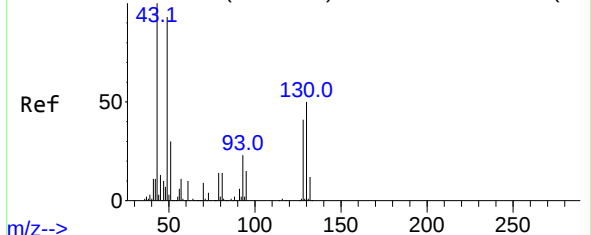
Quant Time: Apr 06 07:51:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL031523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Mar 15 16:14:43 2023
 Response via : Initial Calibration

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

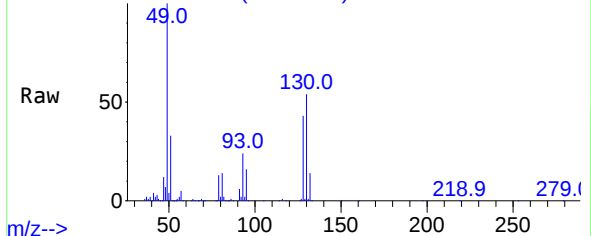
Internal Standards						
1) Bromochloromethane	5.176	49	926648	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.639	114	2778426	10.000	ppbv	-0.02
55) Chlorobenzene-d5	11.455	117	2512854	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2032362	9.658	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.600%
Target Compounds						
					Qvalue	
4) Chloromethane	2.790	50	3901	0.054	ppbv #	86
9) Propene	2.668	41	10720	0.240	ppbv	90
10) Heptane	7.565	43	4825	0.045	ppbv #	25
11) Trichlorofluoromethane	3.539	101	5735	0.035	ppbv	98
13) Ethanol	3.243	45	39042	11.925	ppbv	95
15) Acetone	3.462	43	301428	2.672	ppbv	98
16) 1,3-Butadiene	2.944	39	22197	0.433	ppbv #	33
19) Isopropyl Alcohol	3.587	45	8320	0.154	ppbv #	6
20) Methylene Chloride	3.915	84	394860	8.320	ppbv	96
23) Vinyl Acetate	4.616	43	34506	1.099	ppbv #	88
25) Ethyl Acetate	5.195	43	169015	0.800	ppbv #	77
26) Hexane	5.195	57	254198	2.932	ppbv #	36
27) Carbon Disulfide	4.105	76	13236	0.109	ppbv #	71
29) Chloroform	5.259	83	26443	0.173	ppbv	97
34) 2-Butanone	4.793	43	14094	0.103	ppbv	92
39) 1,2-Dichloropropane	6.635	63	660441	7.950	ppbv #	24
41) Tetrahydrofuran	5.198	42	93619	1.183	ppbv #	48
52) Tetrachloroethene	10.603	164	4694	0.073	ppbv #	57
53) Toluene	9.211	91	65560	0.295	ppbv	95
58) Ethyl Benzene	12.333	91	14365	0.050	ppbv	96
66) Benzyl Chloride	16.323	91	761	0.038	ppbv #	69
74) 1,2,4-Trimethylbenzene	16.092	105	58944	0.208	ppbv #	68

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

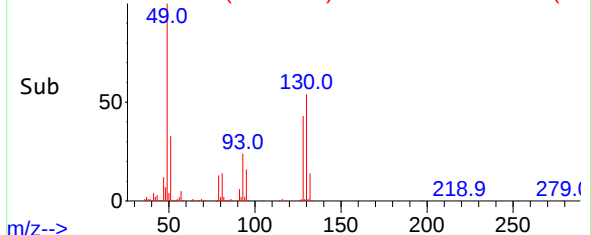
Abundance Scan 804 (5.189 min): VL040279.D\data.ms (-78



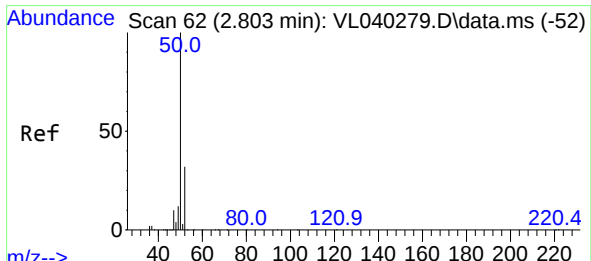
m/z--> Scan 800 (5.176 min): VL040316.D\data.ms



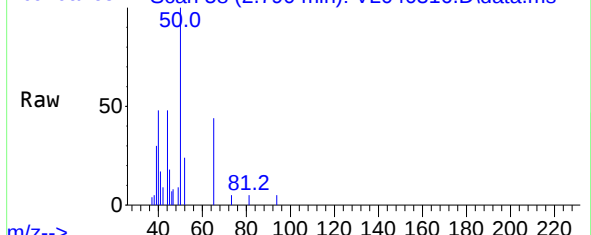
Abundance Scan 800 (5.176 min): VL040316.D\data.ms (-64



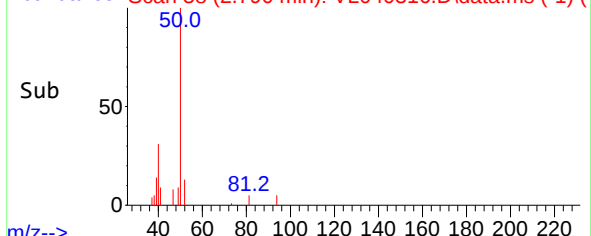
m/z--> Scan 62 (2.803 min): VL040279.D\data.ms (-52)



m/z--> Scan 58 (2.790 min): VL040316.D\data.ms



Abundance Scan 58 (2.790 min): VL040316.D\data.ms (-1)



m/z--> Scan 58 (2.790 min): VL040316.D\data.ms (-1)

#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.176 min Scan# 80

Delta R.T. -0.013 min

Lab File: VL040316.D

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MSVOA_L

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SV2

Tgt Ion: 49 Resp: 926648

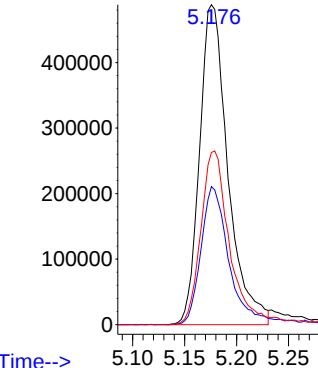
Ion Ratio Lower Upper

49 100

128 44.5 22.4 67.3

130 57.4 28.7 86.1

Abundance



Time-->

#4

Chloromethane

Concen: 0.054 ppbv

RT: 2.790 min Scan# 58

Delta R.T. -0.013 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

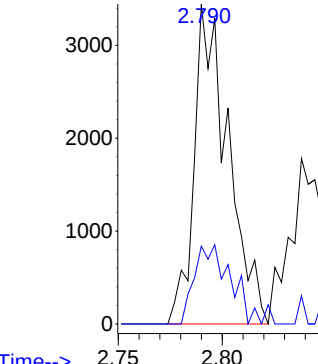
Tgt Ion: 50 Resp: 3901

Ion Ratio Lower Upper

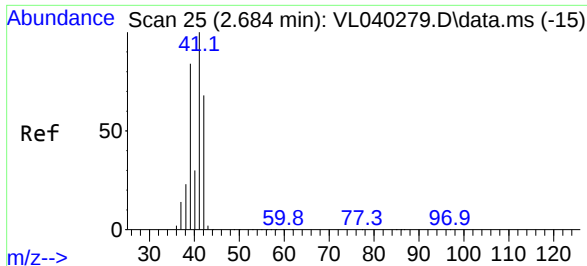
50 100

52 24.3 25.9 38.9#

Abundance



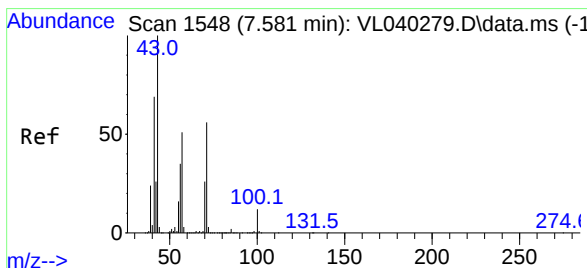
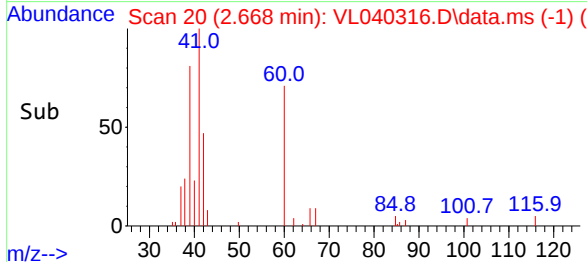
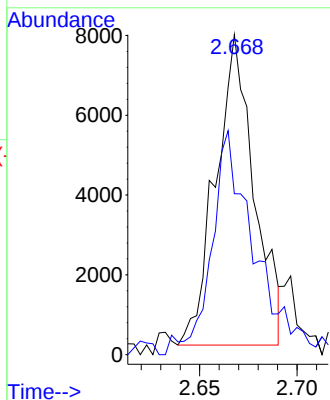
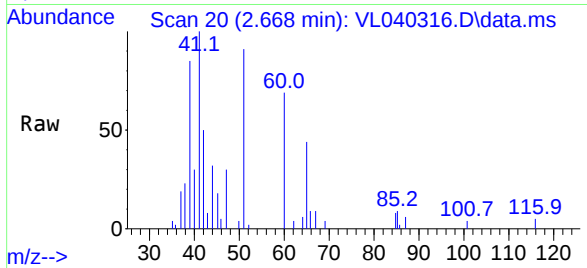
Time-->



#9
 Propene
 Concen: 0.240 ppbv
 RT: 2.668 min Scan# 20
 Delta R.T. -0.016 min
 Lab File: VL040316.D
 Acq: 5 Apr 2023 14:16

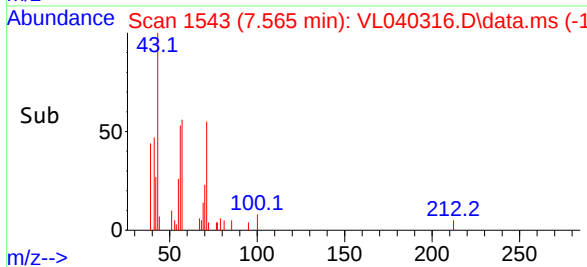
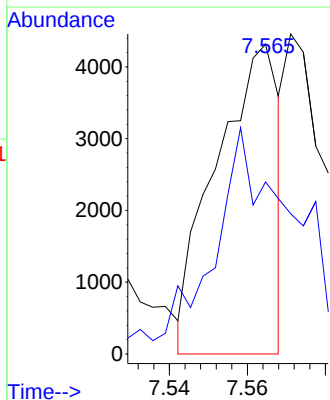
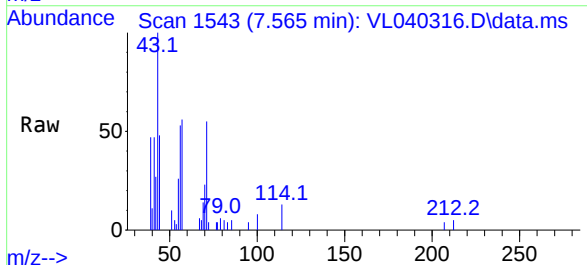
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

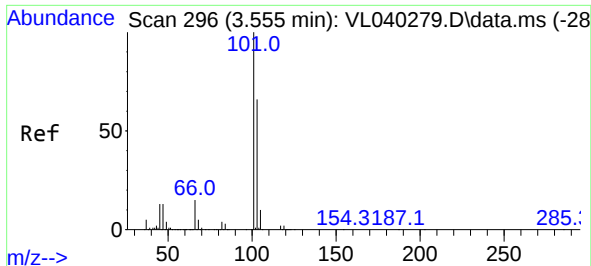
Tgt Ion: 41 Resp: 10720
 Ion Ratio Lower Upper
 41 100
 42 82.3 59.0 88.4



#10
 Heptane
 Concen: 0.045 ppbv
 RT: 7.565 min Scan# 1543
 Delta R.T. -0.016 min
 Lab File: VL040316.D
 Acq: 5 Apr 2023 14:16

Tgt Ion: 43 Resp: 4825
 Ion Ratio Lower Upper
 43 100
 57 104.6 41.7 62.5

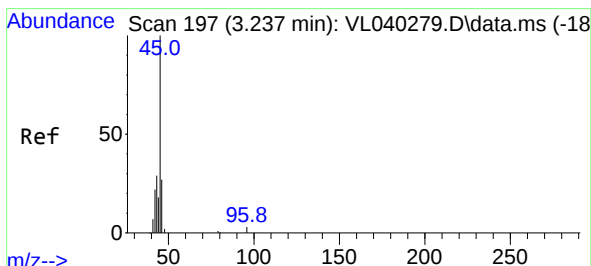
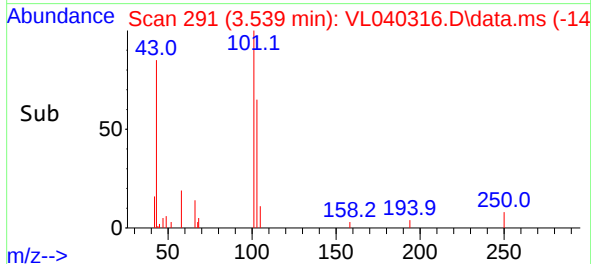
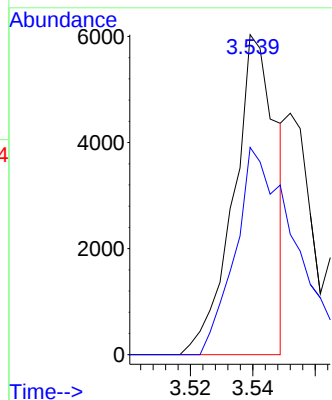
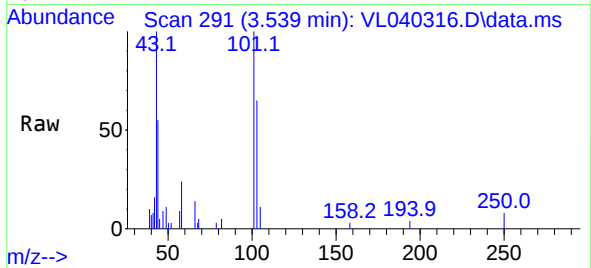




#11
Trichlorofluoromethane
Concen: 0.035 ppbv
RT: 3.539 min Scan# 296
Delta R.T. -0.016 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

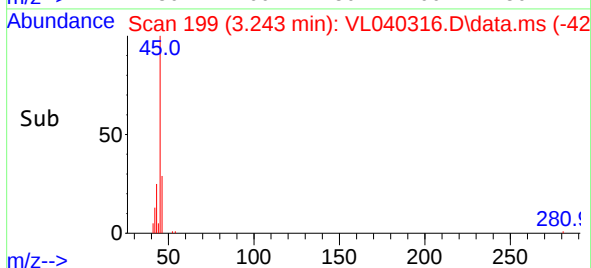
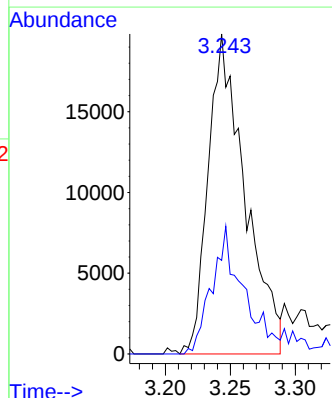
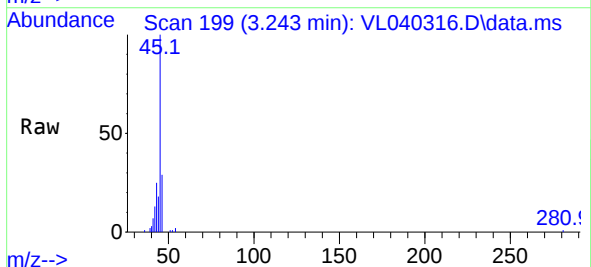
Instrument :
MSVOA_L
ClientSampleId :
SV2

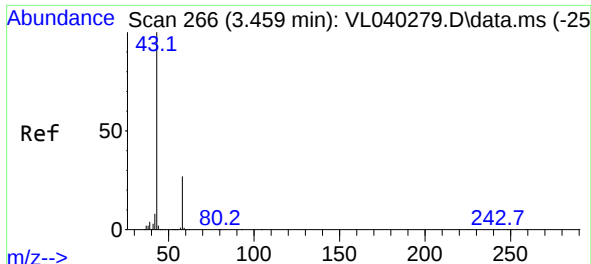
Tgt Ion:101 Resp: 5735
Ion Ratio Lower Upper
101 100
103 64.8 53.1 79.7



#13
Ethanol
Concen: 11.925 ppbv
RT: 3.243 min Scan# 199
Delta R.T. 0.006 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

Tgt Ion: 45 Resp: 39042
Ion Ratio Lower Upper
45 100
46 34.4 15.0 60.2

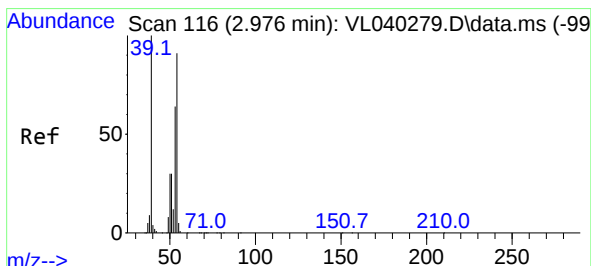
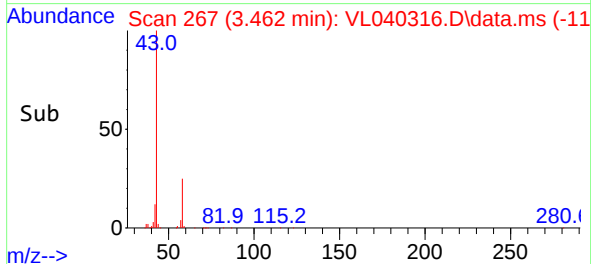
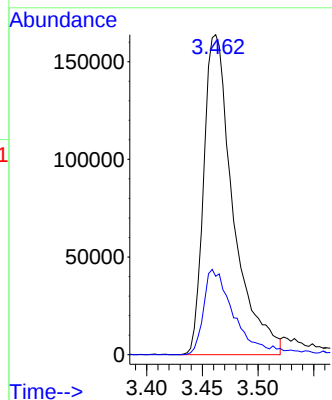
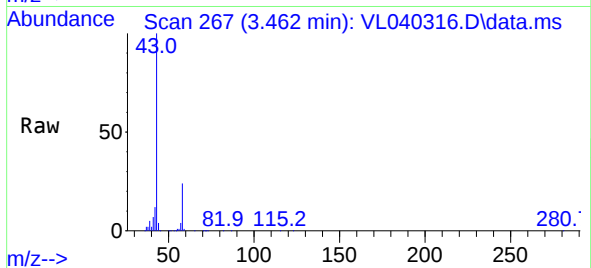




#15
Acetone
Concen: 2.672 ppbv
RT: 3.462 min Scan# 20
Delta R.T. 0.003 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

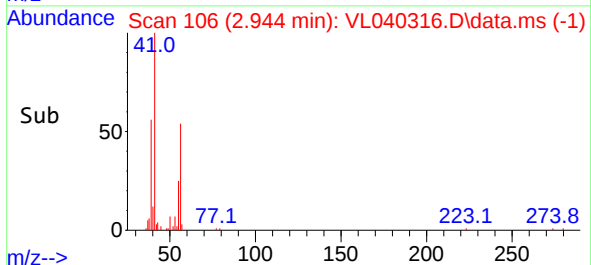
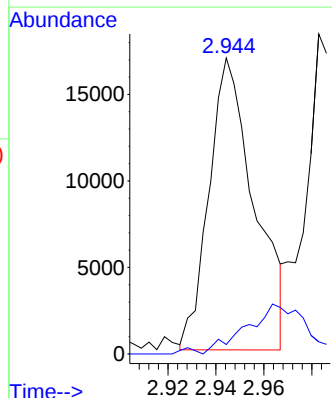
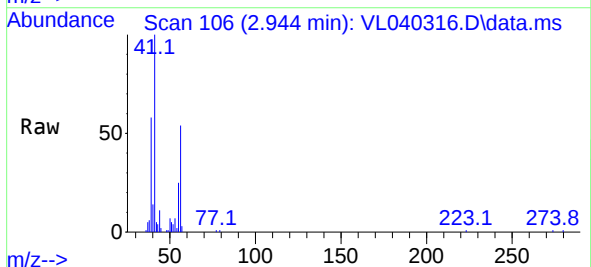
Instrument :
MSVOA_L
ClientSampleId :
SV2

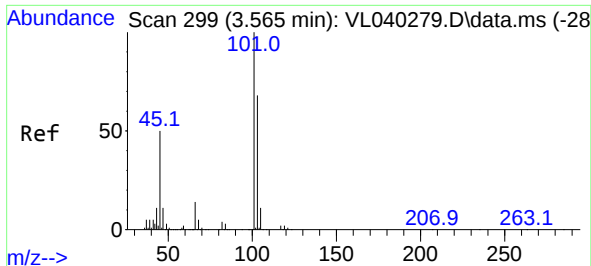
Tgt Ion: 43 Resp: 301428
Ion Ratio Lower Upper
43 100
58 28.2 21.8 32.8



#16
1,3-Butadiene
Concen: 0.433 ppbv
RT: 2.944 min Scan# 106
Delta R.T. -0.032 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

Tgt Ion: 39 Resp: 22197
Ion Ratio Lower Upper
39 100
54 24.5 68.4 102.6#





#19

Isopropyl Alcohol

Concen: 0.154 ppbv

RT: 3.587 min Scan# 306

Delta R.T. 0.022 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Instrument :

MSVOA_L

ClientSampleId :

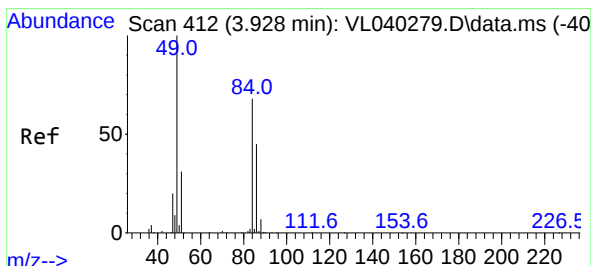
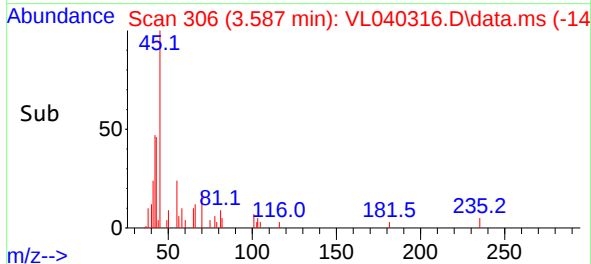
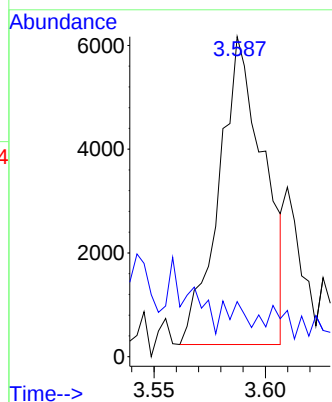
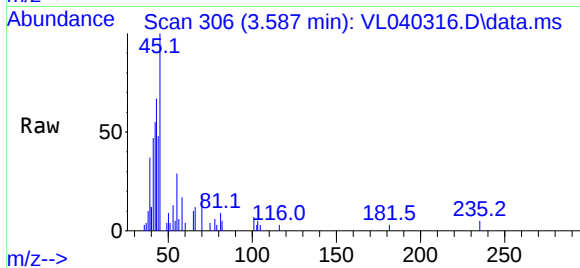
SV2

Tgt Ion: 45 Resp: 8320

Ion Ratio Lower Upper

45 100

58 34.3 2.7 4.1#



#20

Methylene Chloride

Concen: 8.320 ppbv

RT: 3.915 min Scan# 408

Delta R.T. -0.013 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Tgt Ion: 84 Resp: 394860

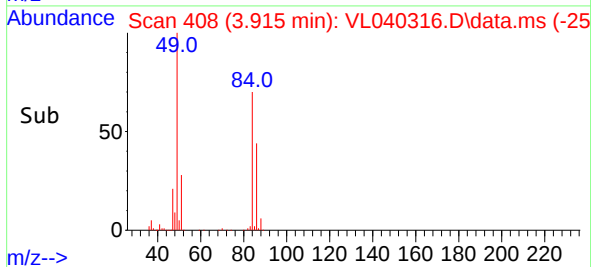
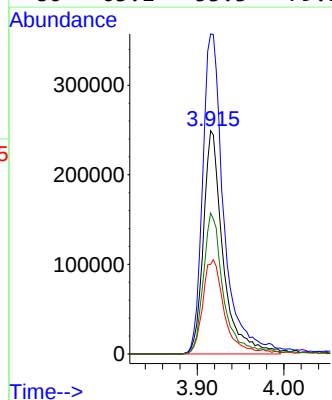
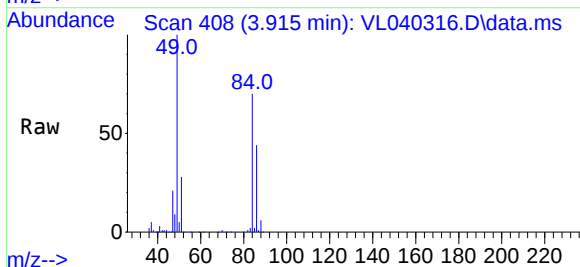
Ion Ratio Lower Upper

84 100

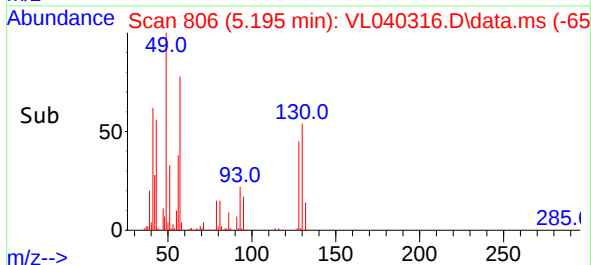
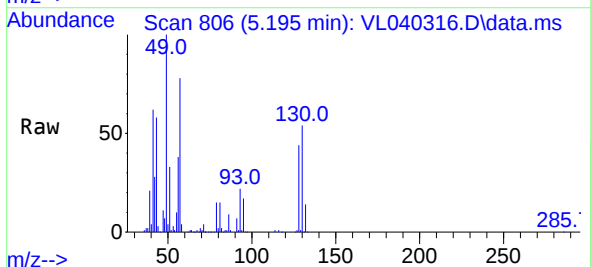
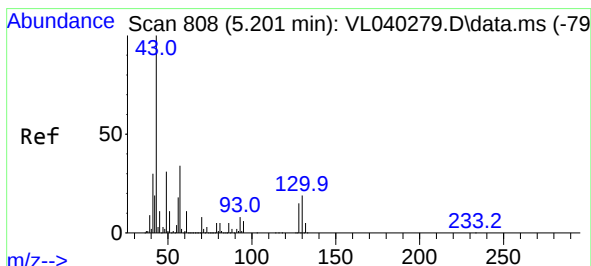
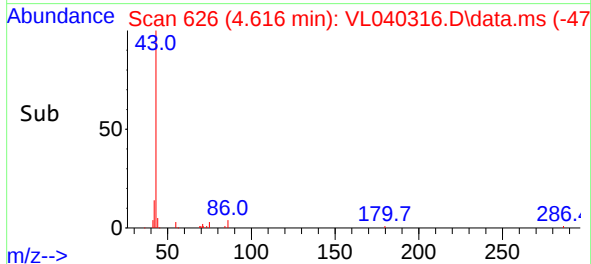
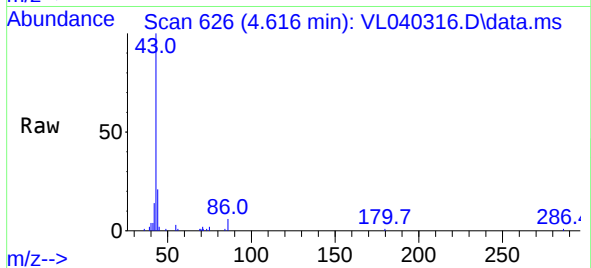
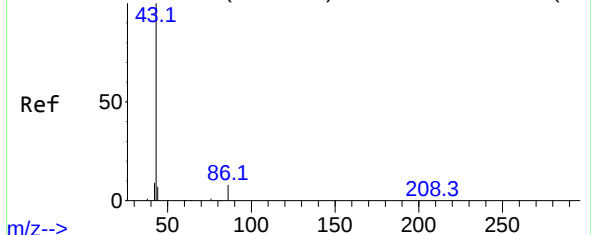
49 143.4 117.5 176.3

51 40.1 36.9 55.3

86 63.1 53.3 79.9



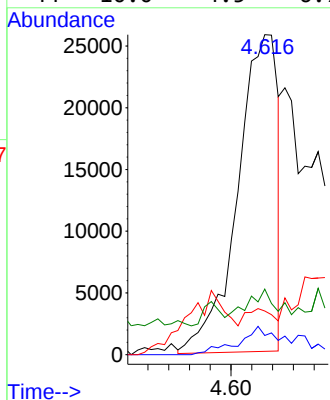
Abundance Scan 628 (4.623 min): VL040279.D\data.ms (-62



#23
Vinyl Acetate
Concen: 1.099 ppbv
RT: 4.616 min Scan# 61
Delta R.T. -0.007 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

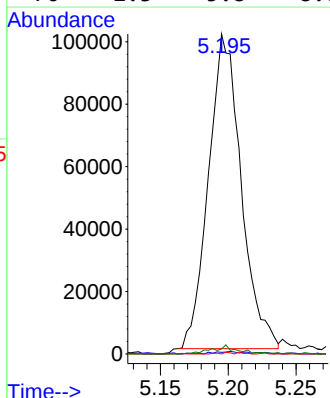
Instrument :
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ClientSampleId :
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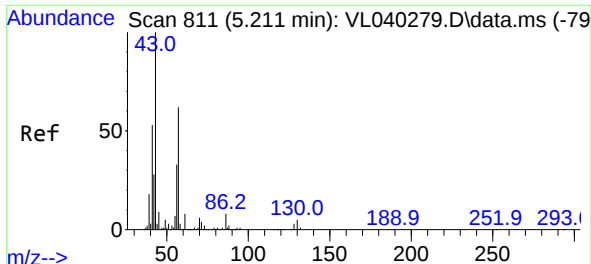
Tgt Ion: 43	Resp: 34506
Ion Ratio	Lower Upper
43 100	
86 6.1	5.0 7.4
42 4.7	9.1 13.7#
44 10.0	4.5 6.7#



#25
Ethyl Acetate
Concen: 0.800 ppbv
RT: 5.195 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

Tgt Ion: 43	Resp: 169015
Ion Ratio	Lower Upper
43 100	
45 1.1	8.6 12.8#
61 0.3	8.4 12.6#
70 2.3	5.8 8.6#





#26

Hexane

Concen: 2.932 ppbv

RT: 5.195 min Scan# 80

Delta R.T. -0.016 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Instrument :

MSVOA_L

ClientSampleId :

SV2

Tgt Ion: 57 Resp: 254198

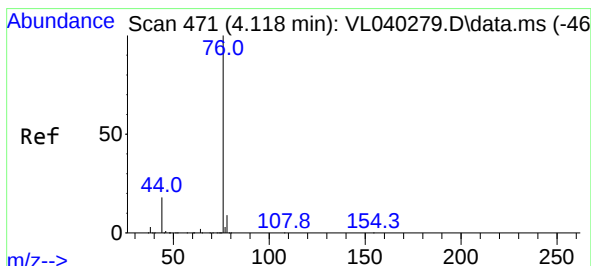
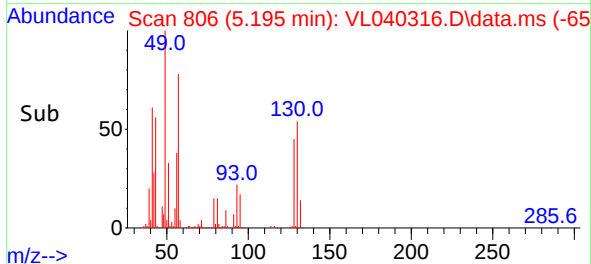
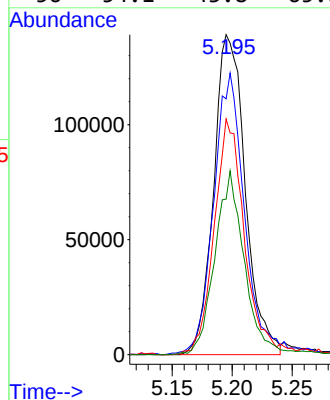
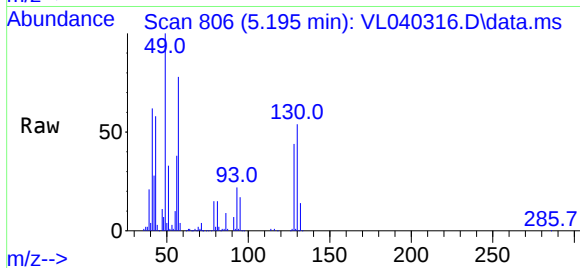
Ion Ratio Lower Upper

57 100

41 88.6 73.5 110.3

43 72.4 196.3 294.5#

56 54.1 43.8 65.8



#27

Carbon Disulfide

Concen: 0.109 ppbv

RT: 4.105 min Scan# 467

Delta R.T. -0.013 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

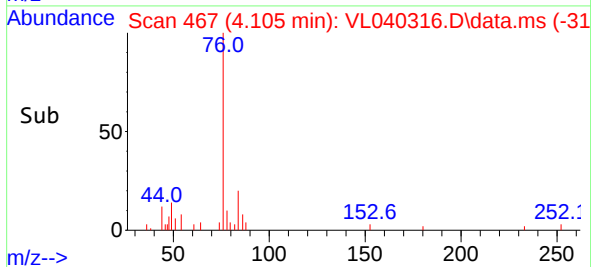
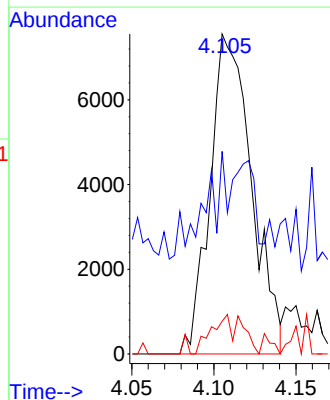
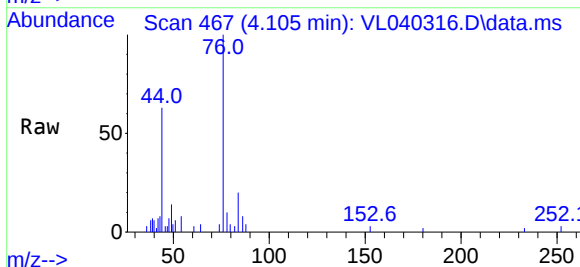
Tgt Ion: 76 Resp: 13236

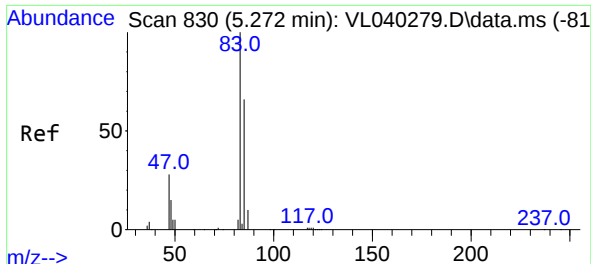
Ion Ratio Lower Upper

76 100

44 37.9 15.2 22.8#

78 11.2 7.6 11.4





#29

Chloroform

Concen: 0.173 ppbv

RT: 5.259 min Scan# 81

Delta R.T. -0.013 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Instrument :

MSVOA_L

ClientSampleId :

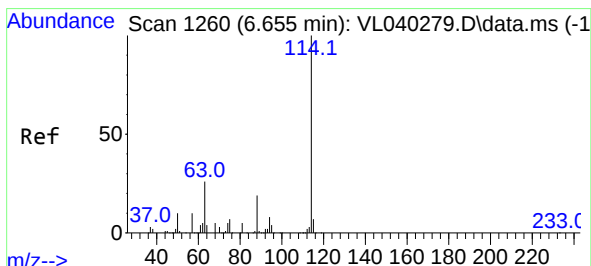
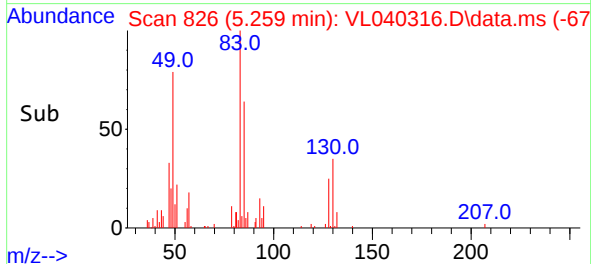
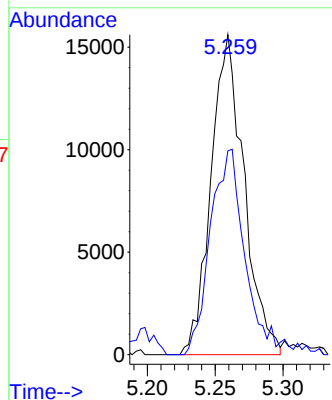
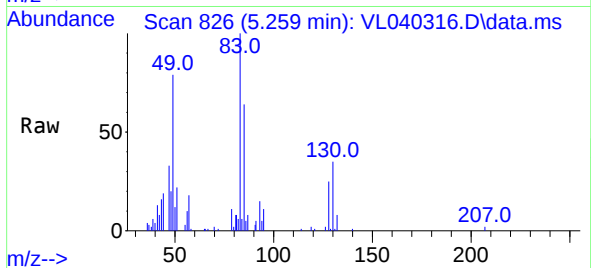
SV2

Tgt Ion: 83 Resp: 26443

Ion Ratio Lower Upper

83 100

85 63.7 52.8 79.2



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.016 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

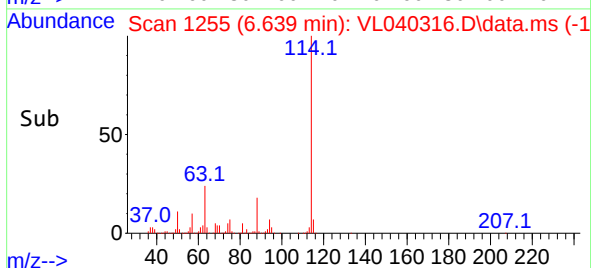
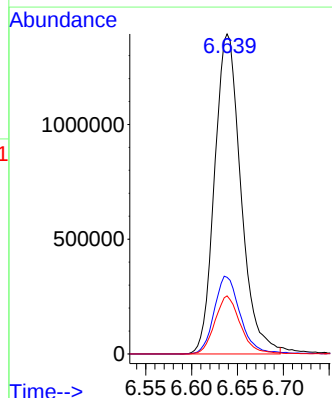
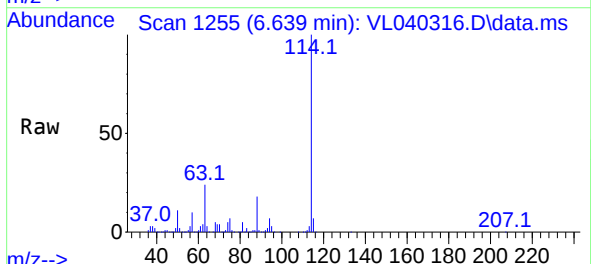
Tgt Ion: 114 Resp: 2778426

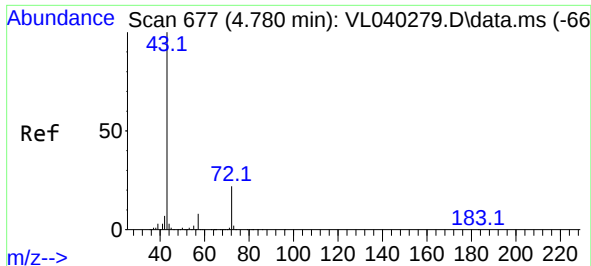
Ion Ratio Lower Upper

114 100

63 24.4 21.2 31.8

88 17.8 14.5 21.7





#34

2-Butanone

Concen: 0.103 ppbv

RT: 4.793 min Scan# 61

Delta R.T. 0.013 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Instrument :

MSVOA_L

ClientSampleId :

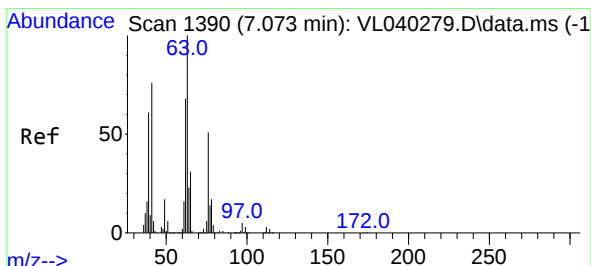
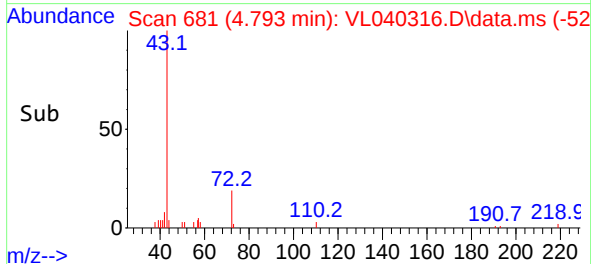
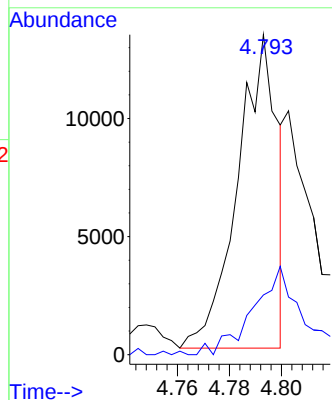
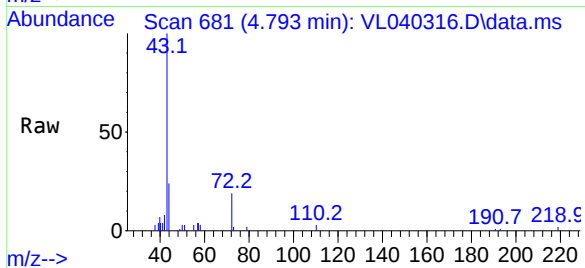
SV2

Tgt Ion: 43 Resp: 14094

Ion Ratio Lower Upper

43 100

72 19.0 18.3 27.5



#39

1,2-Dichloropropane

Concen: 7.950 ppbv

RT: 6.635 min Scan# 1254

Delta R.T. -0.438 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

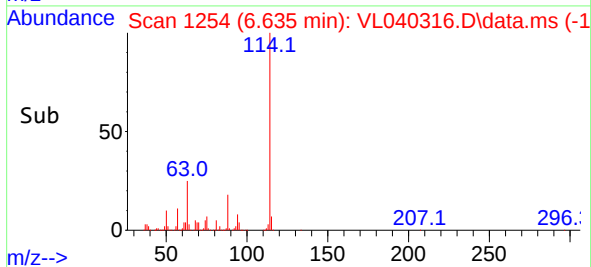
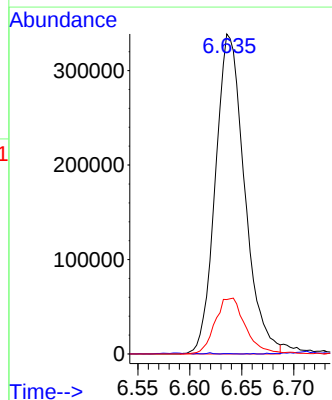
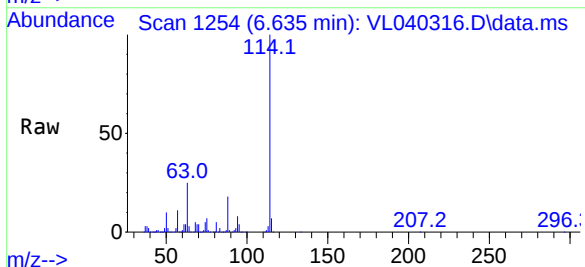
Tgt Ion: 63 Resp: 660441

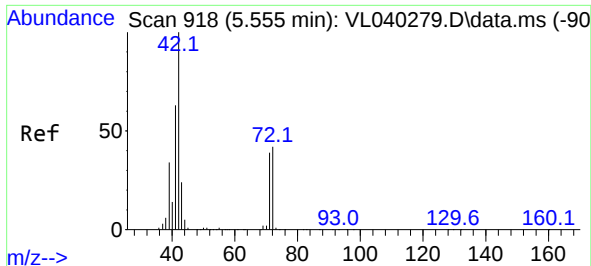
Ion Ratio Lower Upper

63 100

41 0.0 60.8 91.2#

62 17.0 54.1 81.1#





#41

Tetrahydrofuran

Concen: 1.183 ppbv

RT: 5.198 min Scan# 80

Delta R.T. -0.357 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Instrument :

MSVOA_L

ClientSampleId :

SV2

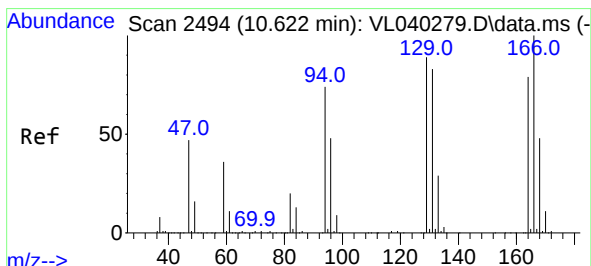
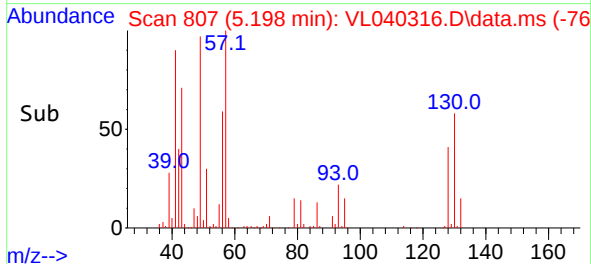
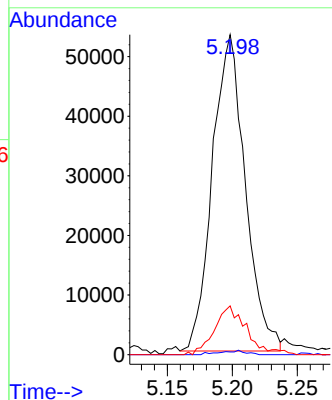
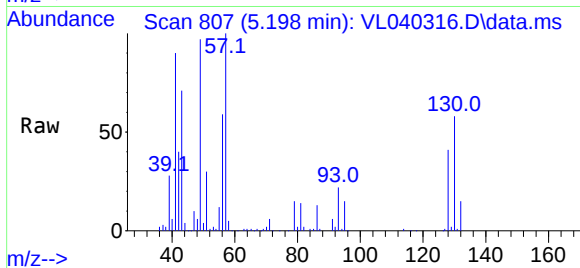
Tgt Ion: 42 Resp: 93619

Ion Ratio Lower Upper

42 100

72 1.0 32.6 49.0#

71 15.1 31.0 46.4#



#52

Tetrachloroethene

Concen: 0.073 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. -0.019 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Tgt Ion:164 Resp: 4694

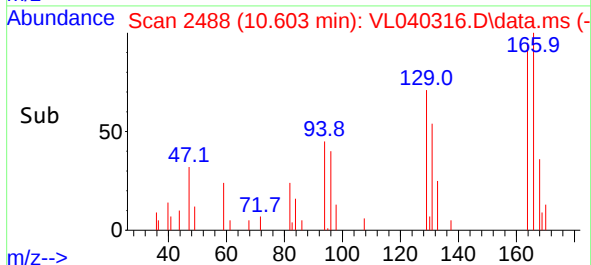
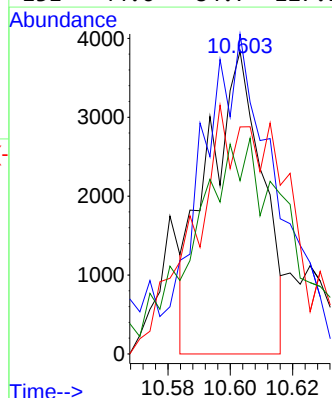
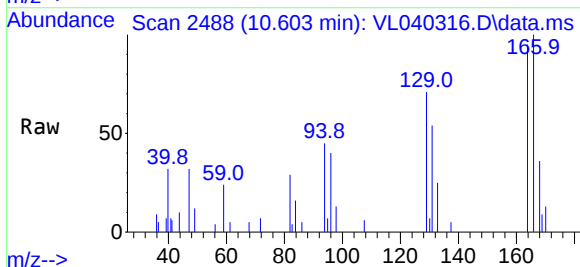
Ion Ratio Lower Upper

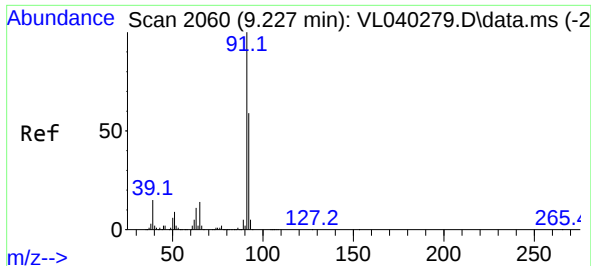
164 100

166 101.0 101.8 152.6#

129 60.3 90.2 135.2#

131 44.6 84.7 127.1#

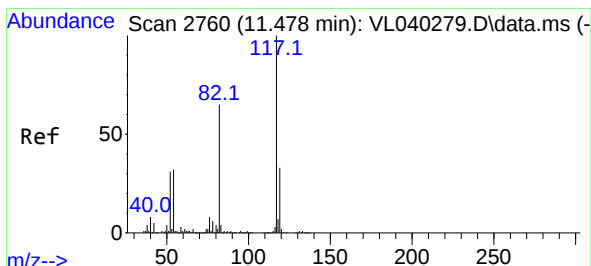
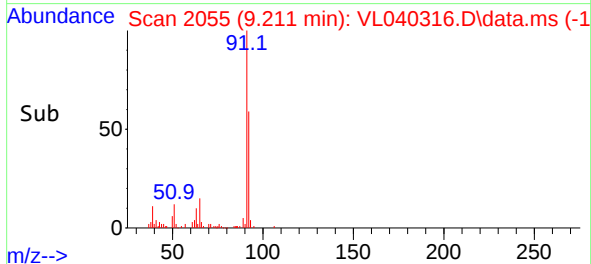
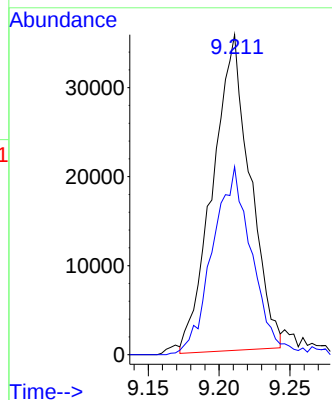
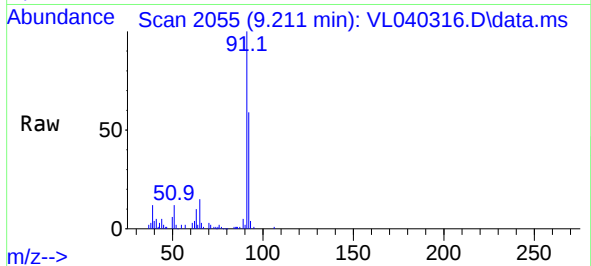




#53
Toluene
Concen: 0.295 ppbv
RT: 9.211 min Scan# 2060
Delta R.T. -0.016 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

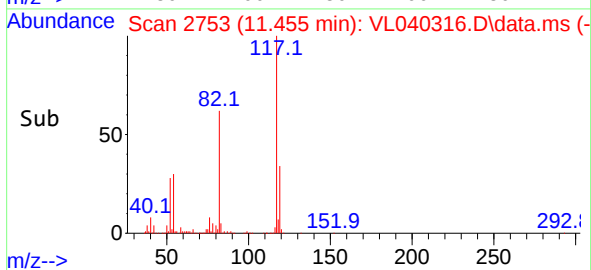
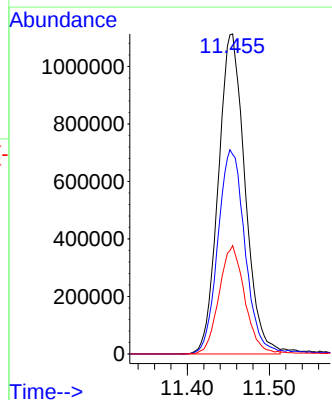
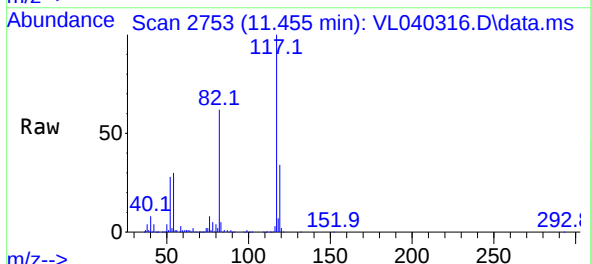
Instrument :
MSVOA_L
ClientSampleId :
SV2

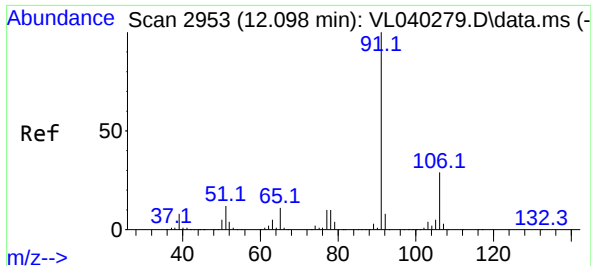
Tgt Ion: 91 Resp: 65560
Ion Ratio Lower Upper
91 100
92 63.6 48.0 72.0



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 2753
Delta R.T. -0.023 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

Tgt Ion: 117 Resp: 2512854
Ion Ratio Lower Upper
117 100
82 66.3 51.4 77.2
119 33.3 24.0 36.0





#58

Ethyl Benzene

Concen: 0.050 ppbv

RT: 12.333 min Scan# 3026

Delta R.T. 0.235 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

Instrument :

MSVOA_1

ClientSampleId :

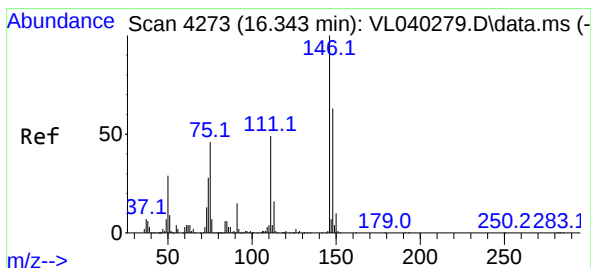
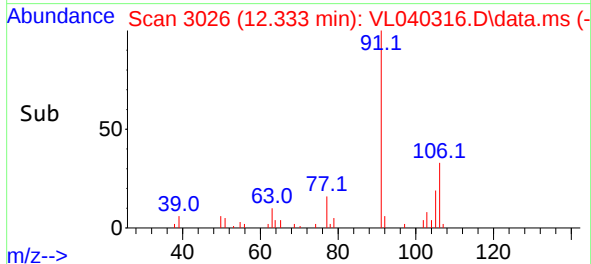
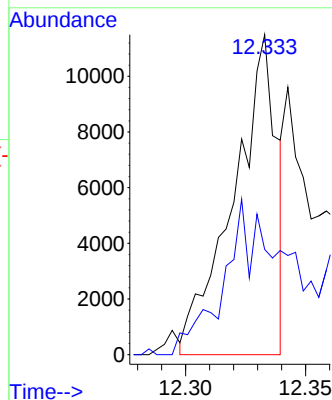
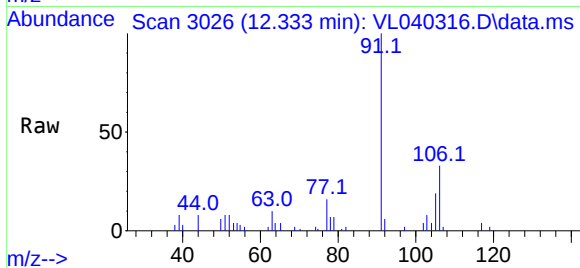
SV2

Tgt Ion: 91 Resp: 14365

Ion Ratio Lower Upper

91 100

106 27.1 23.4 35.2



#66

Benzyl Chloride

Concen: 0.038 ppbv

RT: 16.323 min Scan# 4267

Delta R.T. -0.020 min

Lab File: VL040316.D

Acq: 5 Apr 2023 14:16

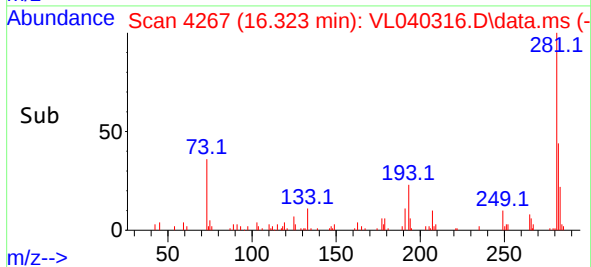
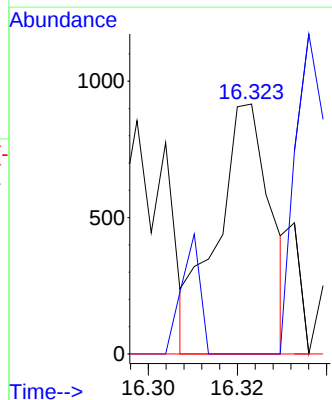
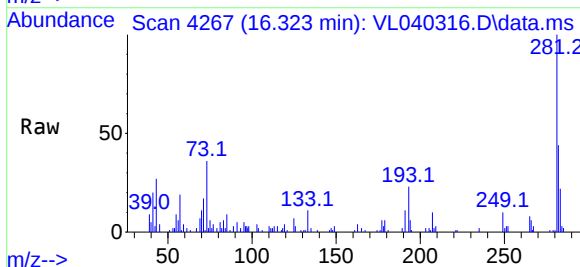
Tgt Ion: 91 Resp: 761

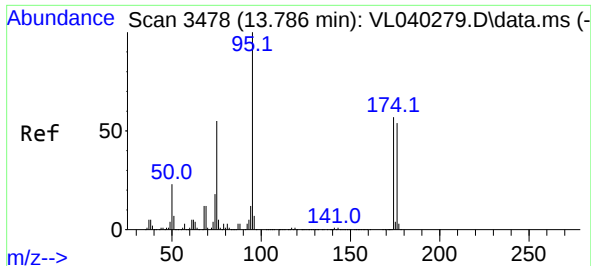
Ion Ratio Lower Upper

91 100

126 0.0 12.1 18.1#

128 0.0 3.8 5.6#

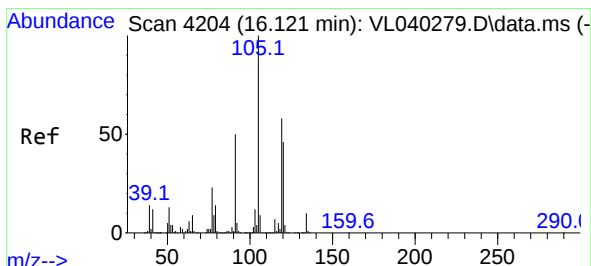
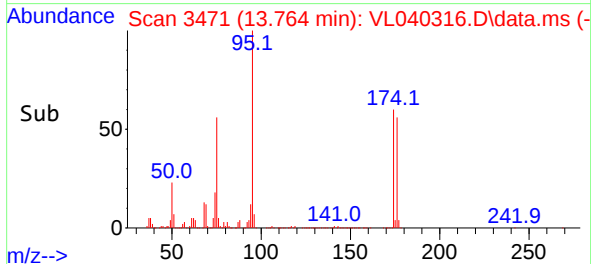
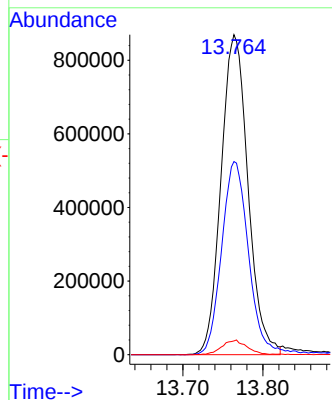
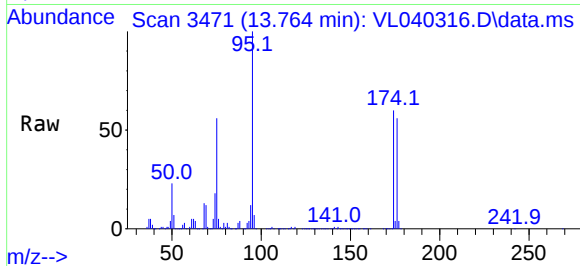




#68
1-Bromo-4-Fluorobenzene
Concen: 9.658 ppbv
RT: 13.764 min Scan# 34
Delta R.T. -0.022 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

Instrument :
MSVOA_L
ClientSampleId :
SV2

Tgt Ion: 95 Resp: 2032362
Ion Ratio Lower Upper
95 100
174 60.7 47.0 70.6
175 4.4 3.4 5.2



#74
1,2,4-Trimethylbenzene
Concen: 0.208 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. -0.029 min
Lab File: VL040316.D
Acq: 5 Apr 2023 14:16

Tgt Ion: 105 Resp: 58944
Ion Ratio Lower Upper
105 100
120 39.7 36.6 54.8
91 9.1 39.9 59.9#
77 13.8 18.6 27.8#

