

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034814.D
 Acq On : 6 Mar 2020 4:05
 Operator : SY/AP
 Sample : L1698-08DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL

Quant Time: Mar 06 09:15:25 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 04 06:36:39 2020
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	471822	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.18	114	1110805	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.11	117	1093957	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	867460	9.51	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.10%

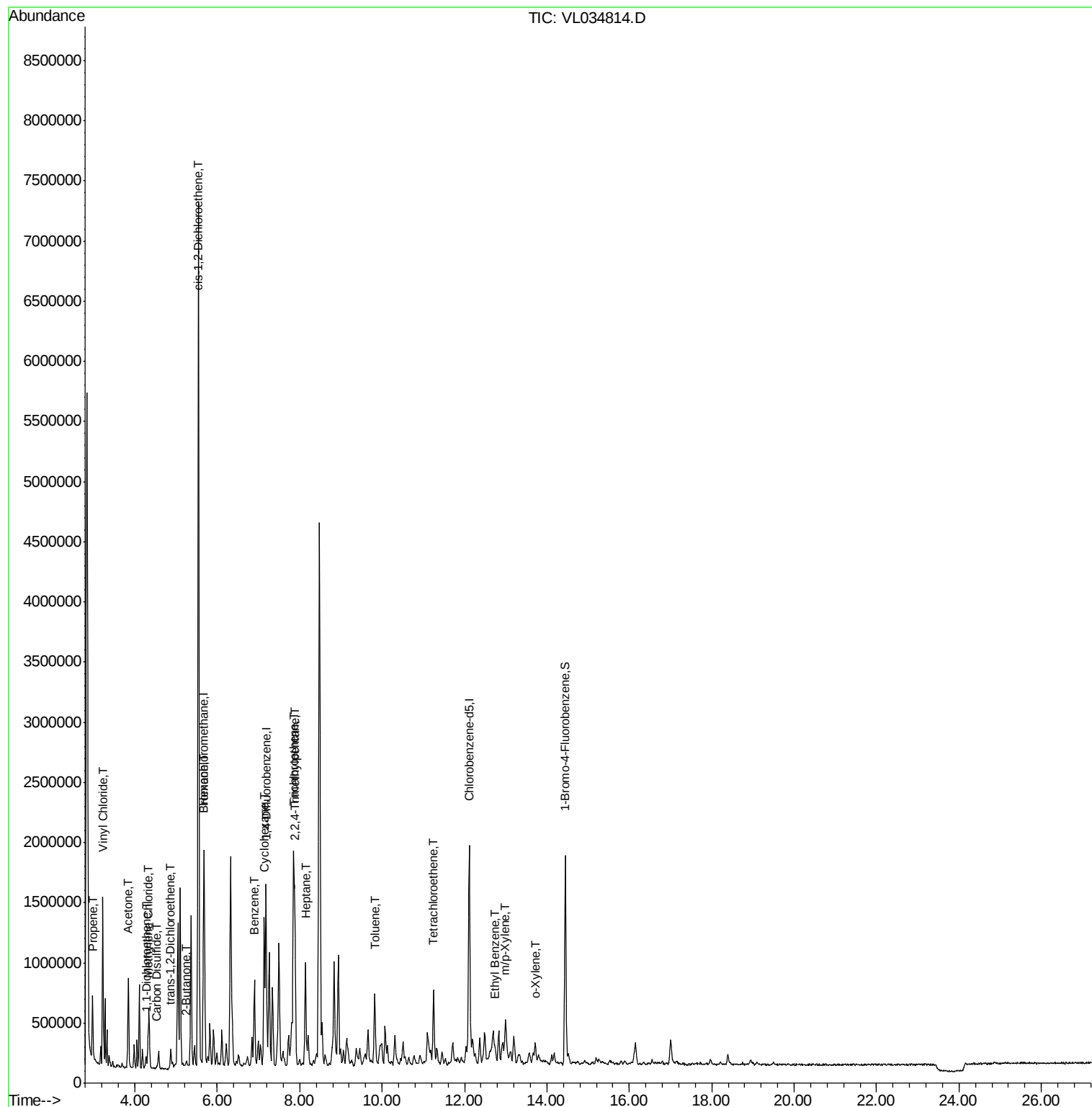
Target Compounds					Ovalue
5) Vinyl Chloride	3.22	62	1141037	37.305	ppbv 97
9) Propene	2.97	41	210704	9.958	ppbv 94
10) Heptane	8.14	43	402641	7.488	ppbv 98
15) Acetone	3.84	43	505377	8.945	ppbv # 85
18) 1,1-Dichloroethene	4.26	96	19975	0.953	ppbv 92
20) Methylene Chloride	4.32	84	99074	4.913	ppbv 96
22) trans-1,2-Dichloroethene	4.87	96	41132	2.010	ppbv 96
26) Hexane	5.68	57	612625	14.363	ppbv # 42
27) Carbon Disulfide	4.53	76	18517	0.372	ppbv 94
30) Cyclohexane	7.14	84	435579	13.348	ppbv 99
31) cis-1,2-Dichloroethene	5.54	61	4234202	96.785	ppbv 89
34) 2-Butanone	5.25	43	38873	0.538	ppbv 100
36) Benzene	6.90	78	497970	5.246	ppbv 96
38) Trichloroethene	7.85	130	542424	14.662	ppbv 92
44) 2,2,4-Trimethylpentane	7.88	57	1013909	6.113	ppbv # 74
52) Tetrachloroethene	11.25	164	168284	4.799	ppbv 94
53) Toluene	9.83	91	149455	1.488	ppbv 97
58) Ethyl Benzene	12.74	91	77417	0.574	ppbv 94
59) m/p-Xylene	12.99	91	243290	2.085	ppbv 96
60) o-Xylene	13.72	91	73827	0.625	ppbv 95

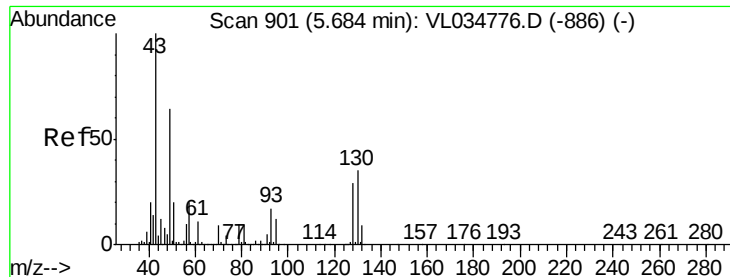
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.02 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL

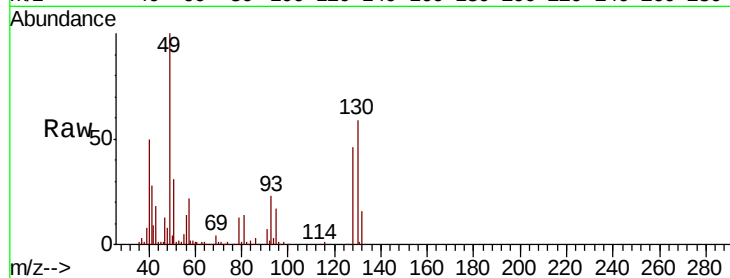
Tot Ion: 49 Resp: 471822

Ion Ratio Lower Upper

49 100

128 46.8 21.6 64.6

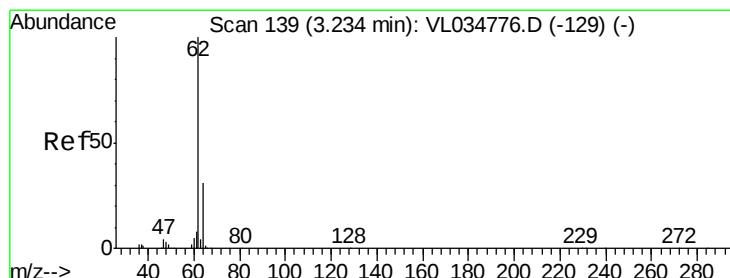
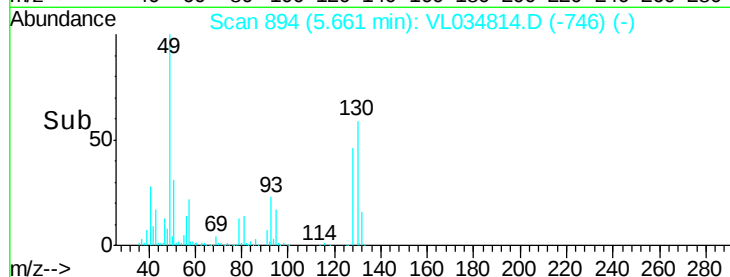
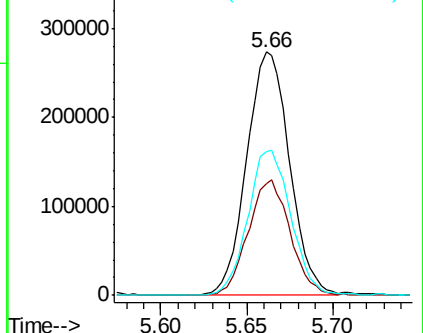
130 59.9 27.4 82.2



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#5

Vinyl Chloride

Concen: 37.305 ppbv

RT: 3.22 min Scan# 135

Delta R.T. -0.01 min

Lab File: VL034814.D

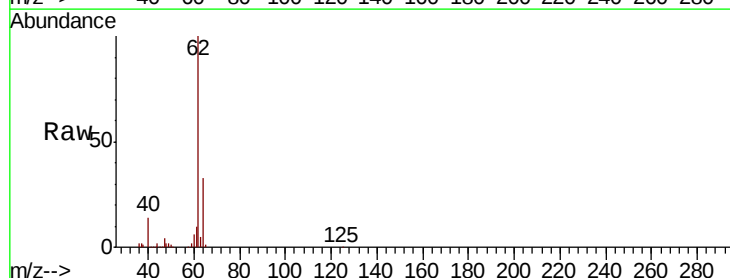
Acq: 6 Mar 2020 4:05

Tgt Ion: 62 Resp: 1141037

Ion Ratio Lower Upper

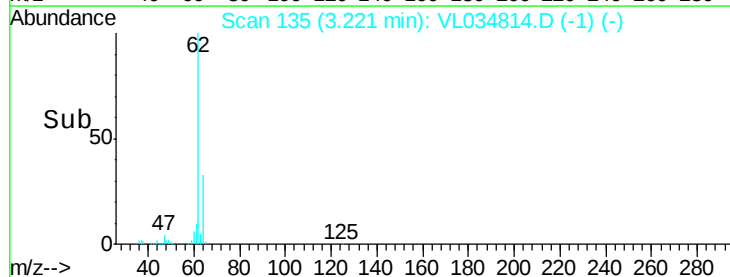
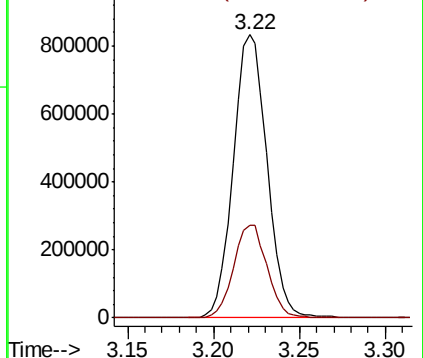
62 100

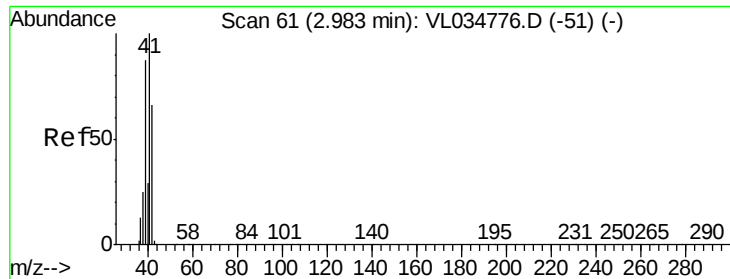
64 32.9 25.1 37.7



Abundance Ion 62.10 (61.80 to 62.80): VL0

Ion 64.10 (63.80 to 64.80): VL0





#9

Propene

Concen: 9.958 ppbv

RT: 2.97 min Scan# 57

Delta R.T. -0.01 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

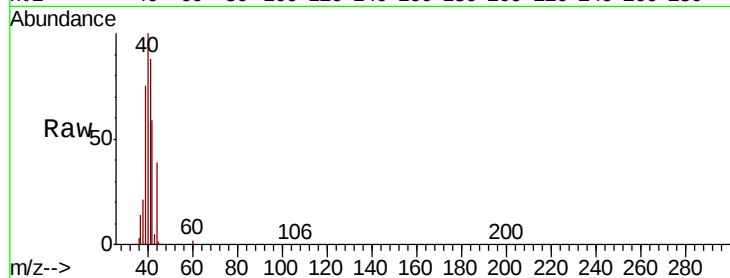
SS-2-4DL

Tot Ion: 41 Resp: 210704

Ion Ratio Lower Upper

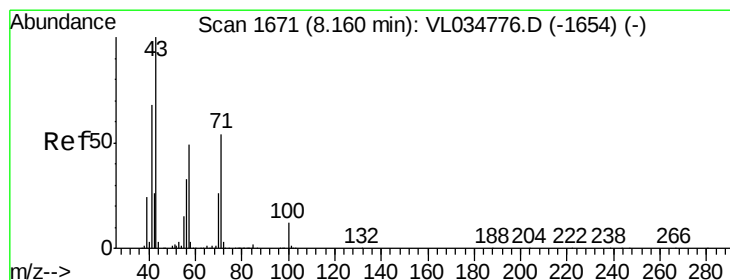
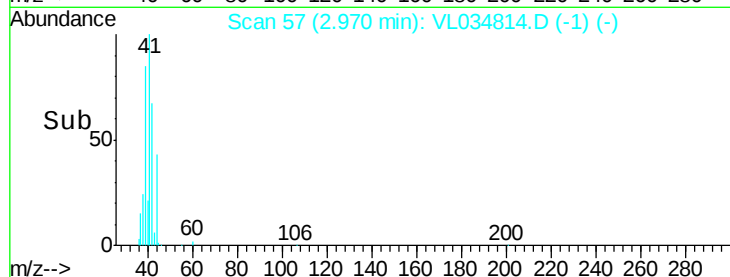
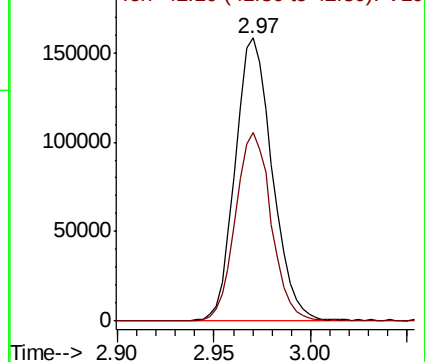
41 100

42 64.9 55.6 83.4



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#10

Heptane

Concen: 7.488 ppbv

RT: 8.14 min Scan# 1664

Delta R.T. -0.02 min

Lab File: VL034814.D

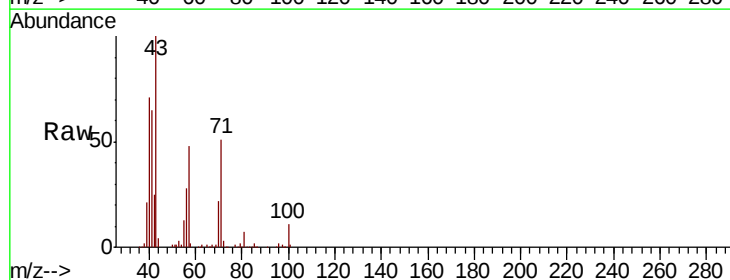
Acq: 6 Mar 2020 4:05

Tgt Ion: 43 Resp: 402641

Ion Ratio Lower Upper

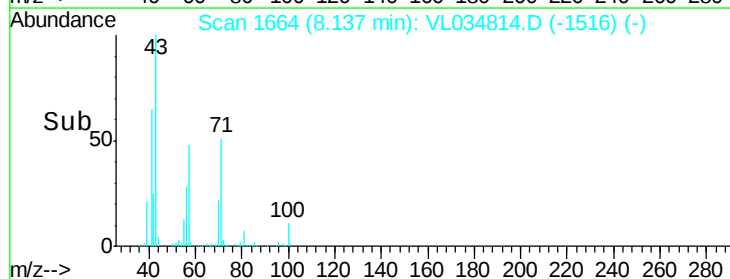
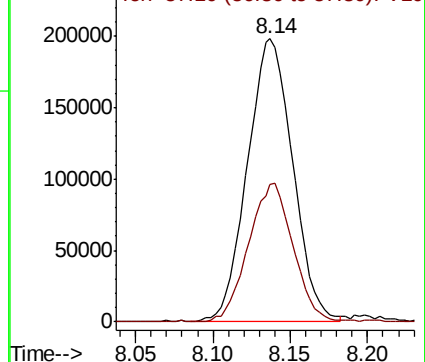
43 100

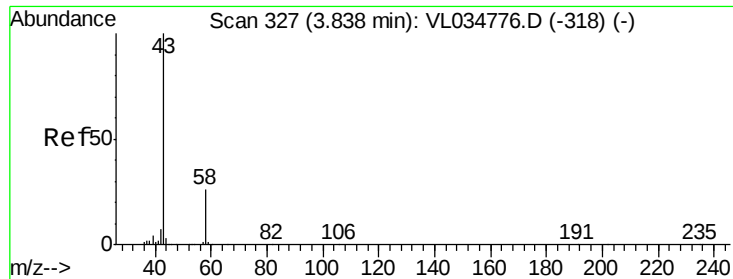
57 49.2 40.5 60.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#15

Acetone

Concen: 8.945 ppbv

RT: 3.84 min Scan# 326

Delta R.T. -0.00 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

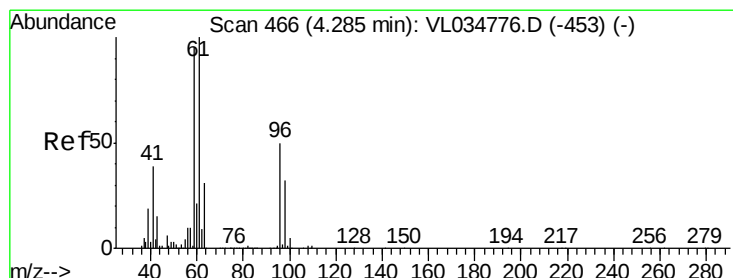
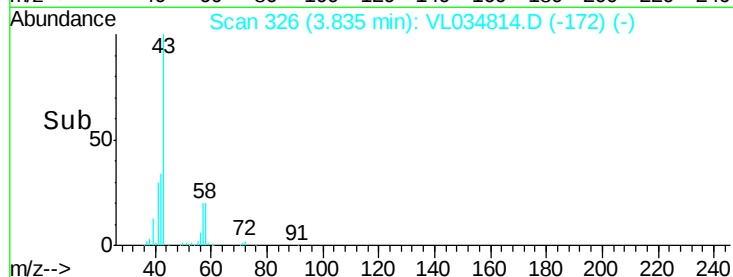
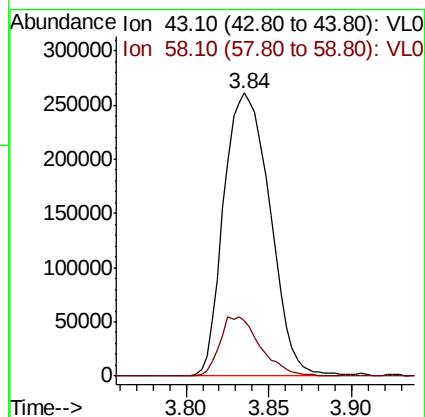
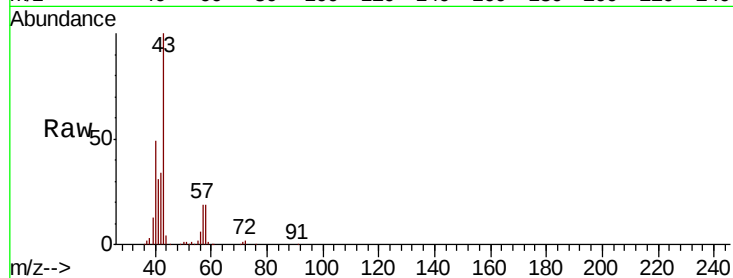
SS-2-4DL

Tot Ion: 43 Resp: 505377

Ion Ratio Lower Upper

43 100

58 18.5 21.0 31.6#



#18

1,1-Dichloroethene

Concen: 0.953 ppbv

RT: 4.26 min Scan# 459

Delta R.T. -0.02 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

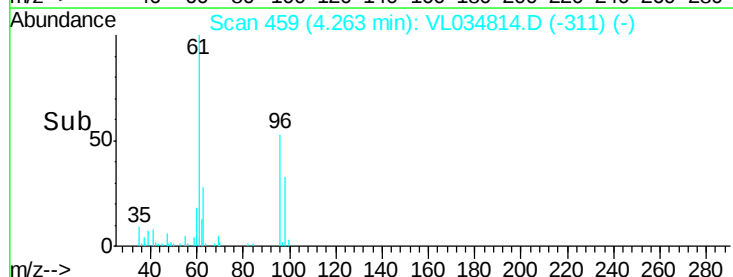
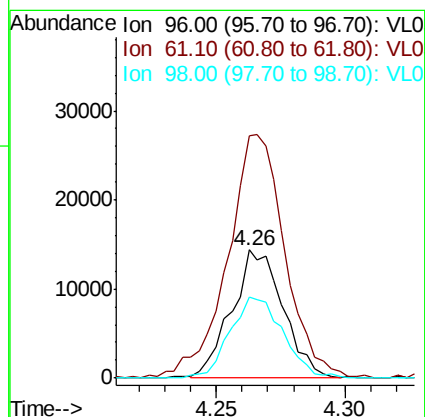
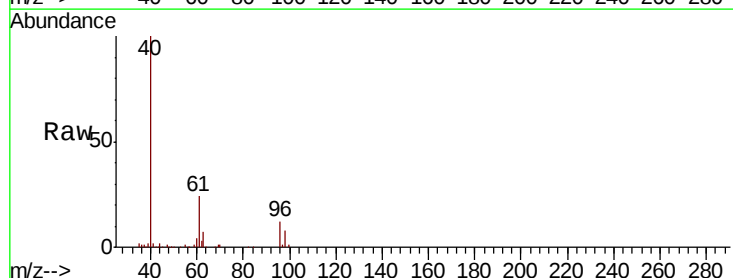
Tgt Ion: 96 Resp: 19975

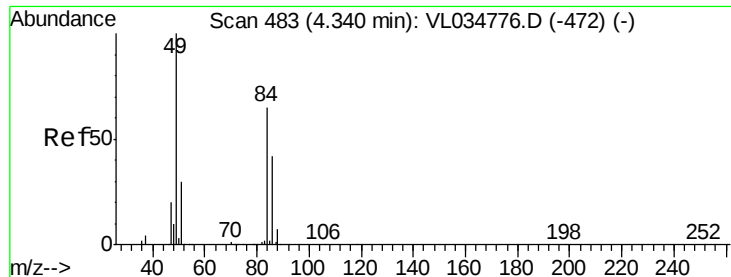
Ion Ratio Lower Upper

96 100

61 184.5 159.5 239.3

98 62.2 51.1 76.7

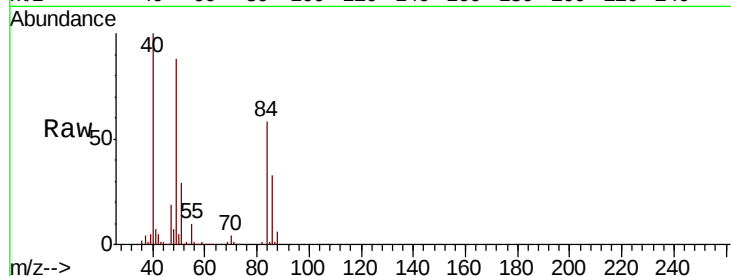




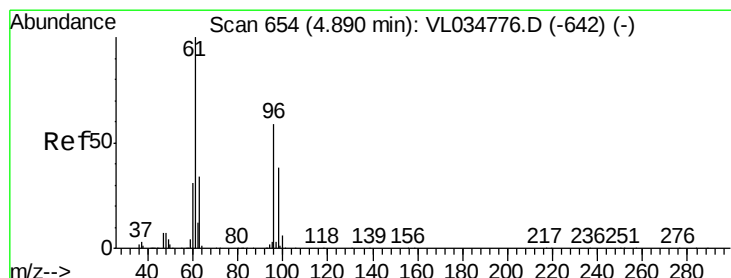
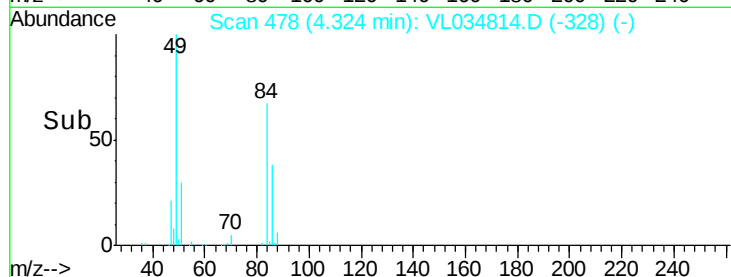
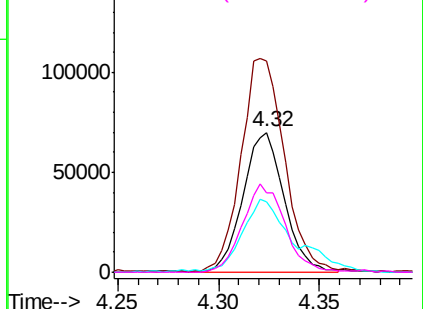
#20
Methvlene Chloride
Concen: 4.913 ppbv
RT: 4.32 min Scan# 478
Delta R.T. -0.02 min
Lab File: VL034814.D
Acq: 6 Mar 2020 4:05

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL

Tot Ion: 84 Resp: 99074
Ion Ratio Lower Upper
84 100
49 151.4 123.2 184.8
51 49.2 37.4 56.2
86 57.3 51.6 77.4

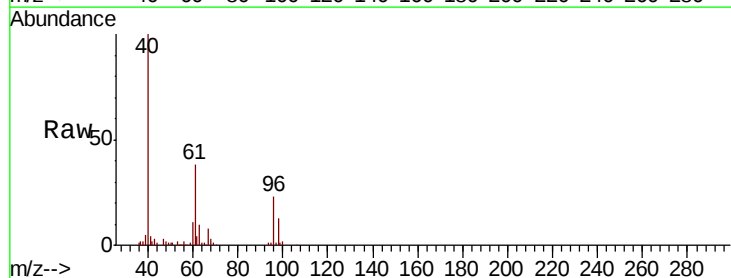


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

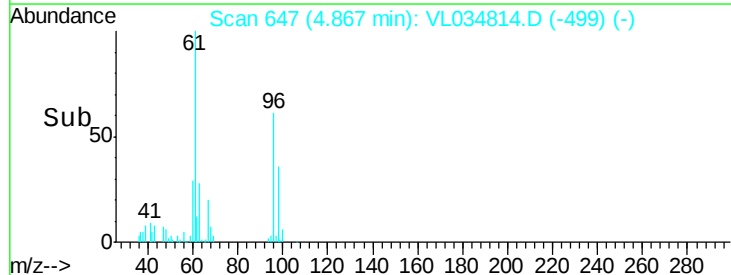
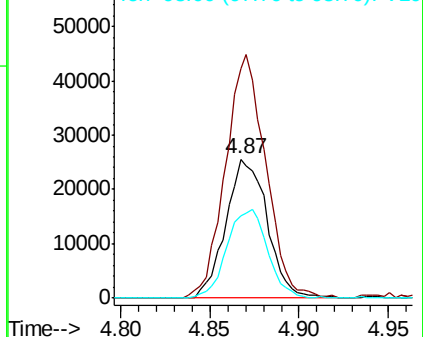


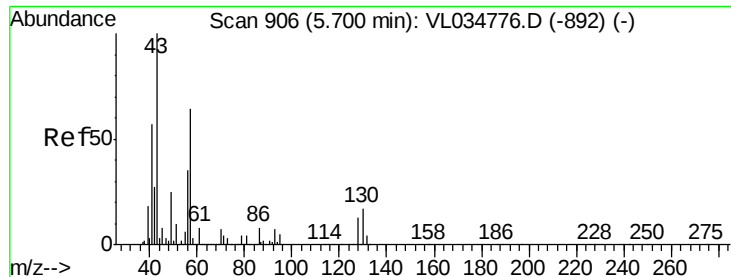
#22
trans-1,2-Dichloroethene
Concen: 2.010 ppbv
RT: 4.87 min Scan# 647
Delta R.T. -0.02 min
Lab File: VL034814.D
Acq: 6 Mar 2020 4:05

Tgt Ion: 96 Resp: 41132
Ion Ratio Lower Upper
96 100
61 165.0 135.2 202.8
98 59.1 50.8 76.2



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#26

Hexane

Concen: 14.363 ppbv

RT: 5.68 min Scan# 901

Delta R.T. -0.02 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

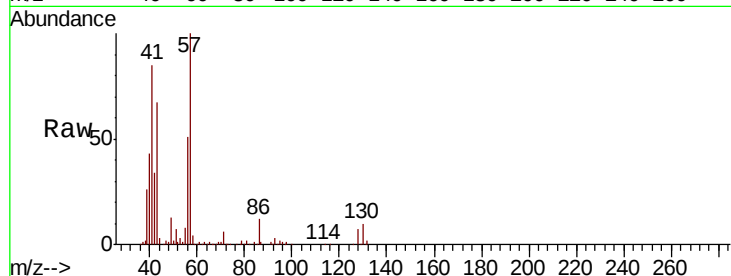
MSVOA_L

ClientSampleId :

SS-2-4DL

Tot Ion: 57 Resp: 612625

Ion	Ratio	Lower	Upper
57	100		
41	93.1	72.0	108.0
43	70.4	179.1	268.7#
56	53.6	42.6	63.8

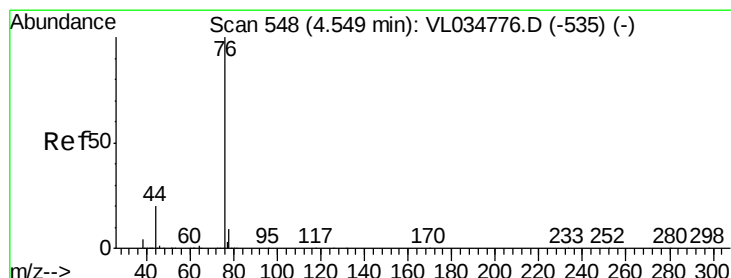
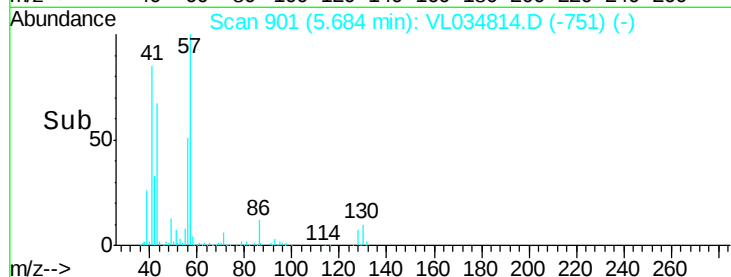
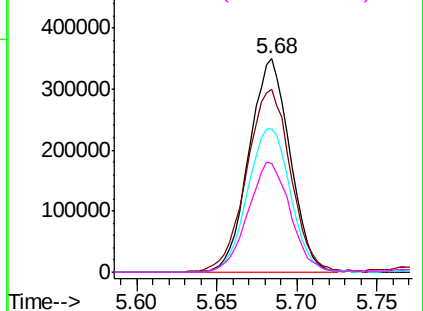


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.372 ppbv

RT: 4.53 min Scan# 542

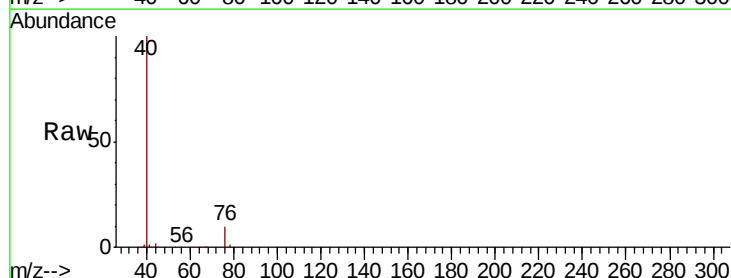
Delta R.T. -0.02 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Tgt Ion: 76 Resp: 18517

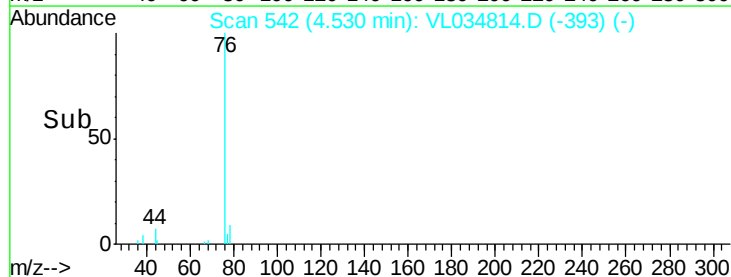
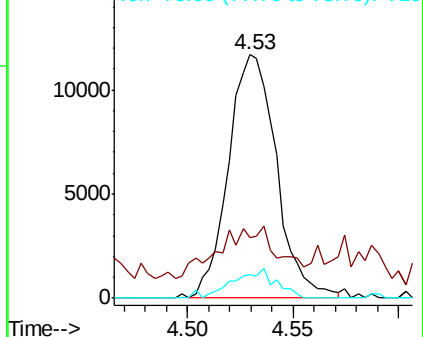
Ion	Ratio	Lower	Upper
76	100		
44	23.5	16.1	24.1
78	10.8	7.5	11.3

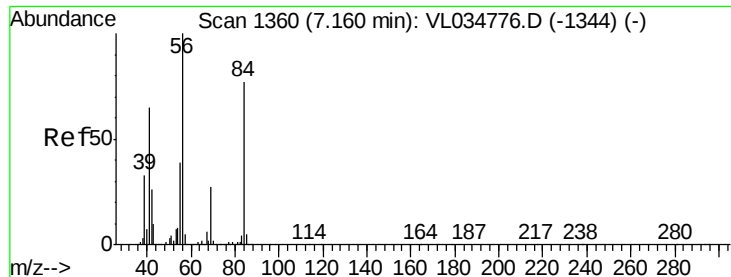


Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0

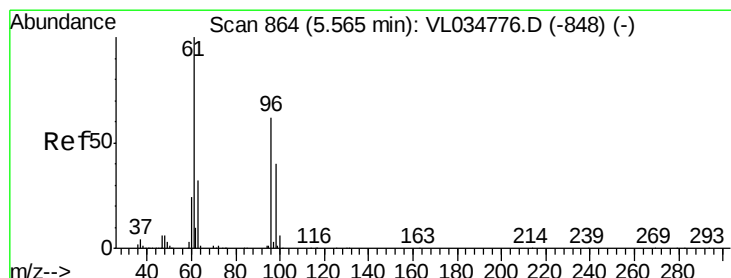
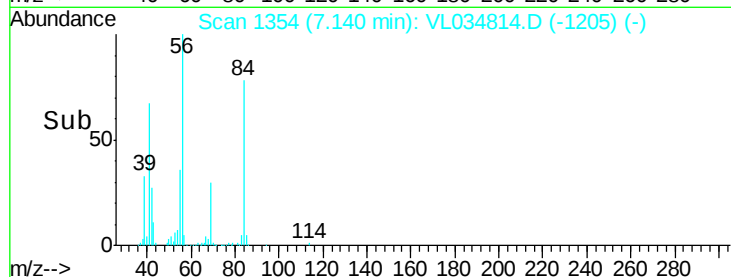
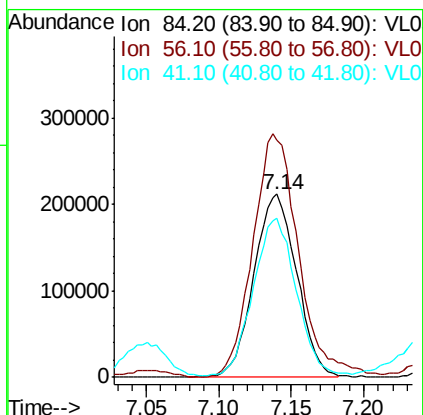
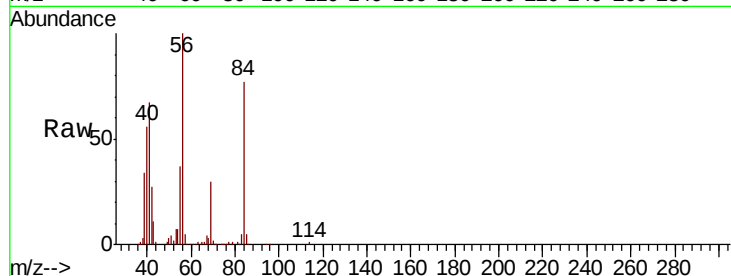




#30
Cvclohexane
Concen: 13.348 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. -0.02 min
Lab File: VL034814.D
Acq: 6 Mar 2020 4:05

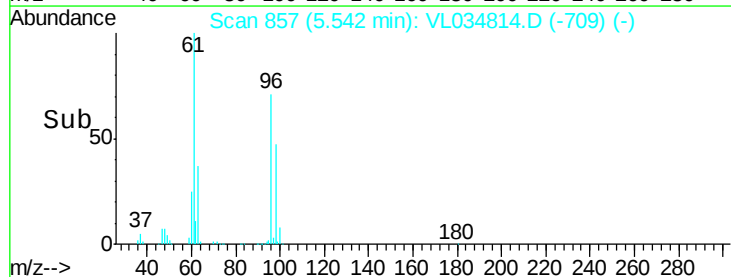
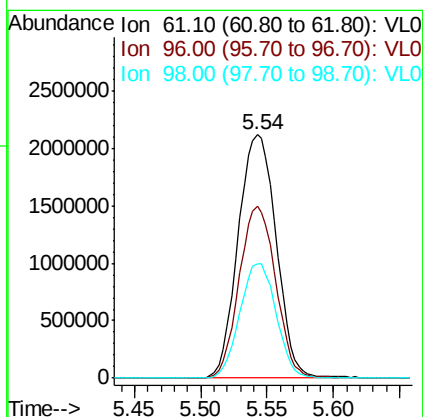
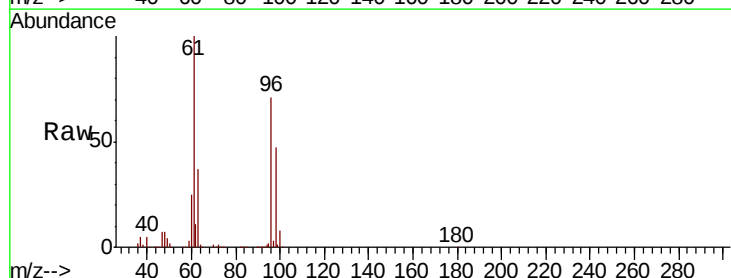
Instrument :
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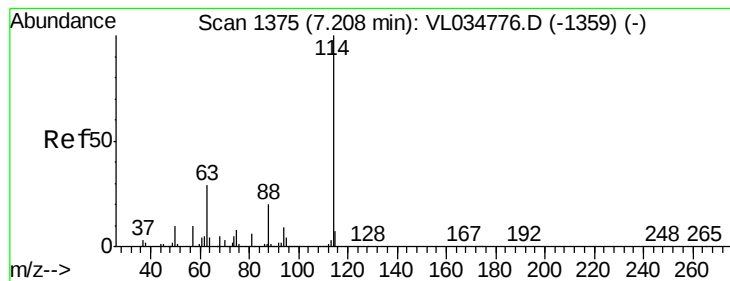
Tot Ion: 84 Resp: 435579
Ion Ratio Lower Upper
84 100
56 140.8 113.2 169.8
41 86.5 70.2 105.4



#31
cis-1,2-Dichloroethene
Concen: 96.785 ppbv
RT: 5.54 min Scan# 857
Delta R.T. -0.02 min
Lab File: VL034814.D
Acq: 6 Mar 2020 4:05

Tgt Ion: 61 Resp: 4234202
Ion Ratio Lower Upper
61 100
96 70.6 49.7 74.5
98 47.2 31.9 47.9





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. -0.03 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL

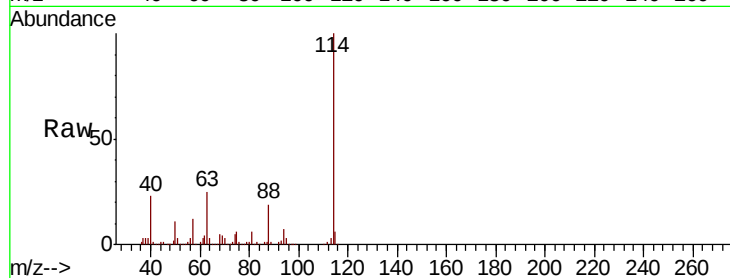
Tot Ion:114 Resp: 1110805

Ion Ratio Lower Upper

114 100

63 25.8 23.6 35.4

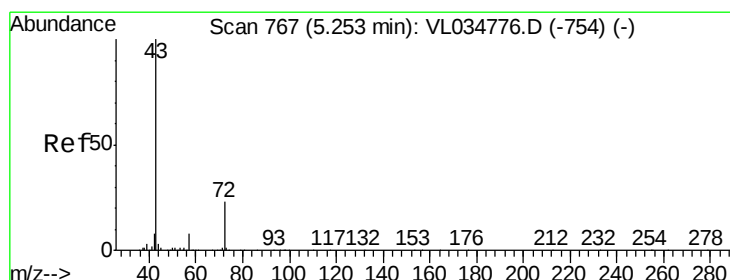
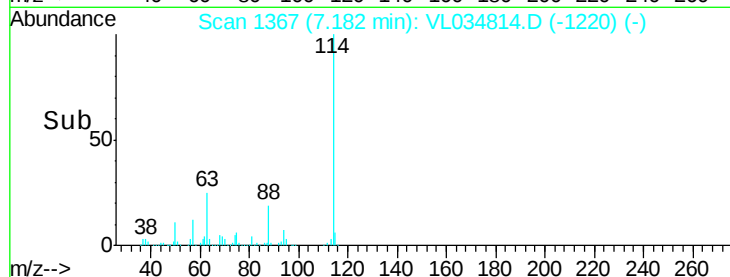
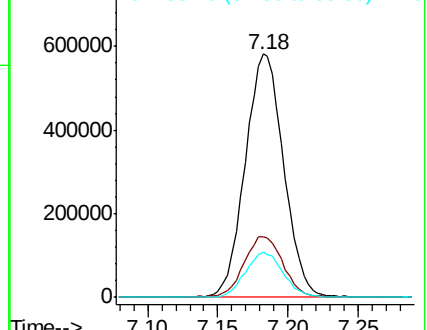
88 18.1 15.8 23.8



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.538 ppbv

RT: 5.25 min Scan# 765

Delta R.T. -0.01 min

Lab File: VL034814.D

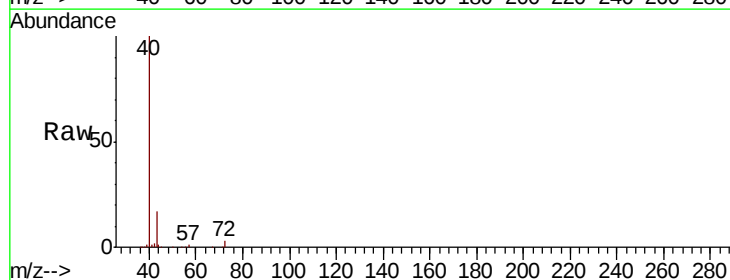
Acq: 6 Mar 2020 4:05

Tgt Ion: 43 Resp: 38873

Ion Ratio Lower Upper

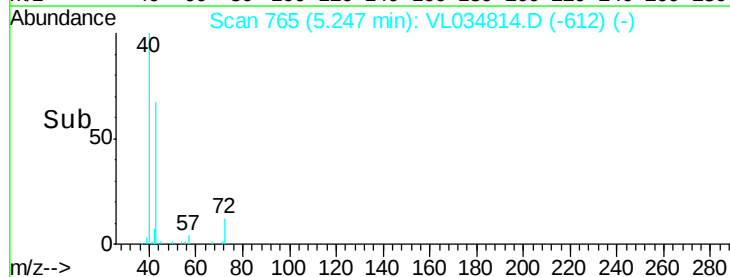
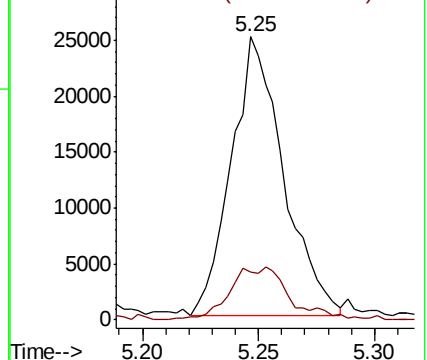
43 100

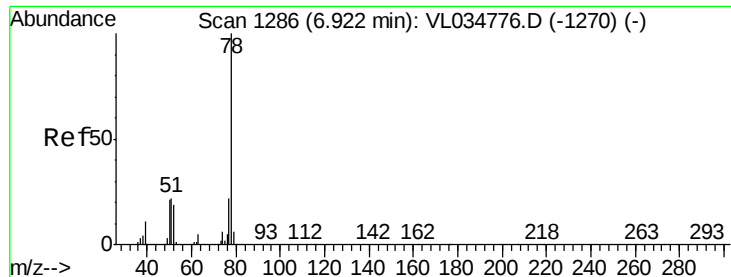
72 22.0 17.5 26.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 5.246 ppbv

RT: 6.90 min Scan# 1278

Delta R.T. -0.03 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

SS-2-4DL

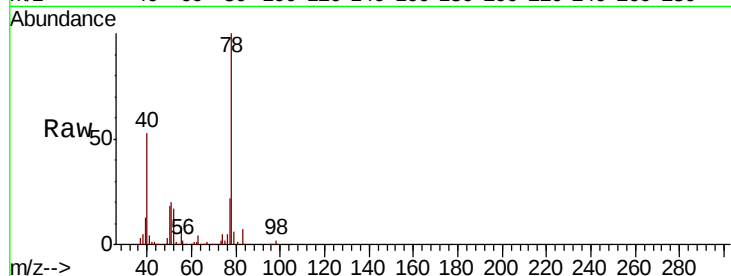
Tot Ion: 78 Resp: 497970

Ion Ratio Lower Upper

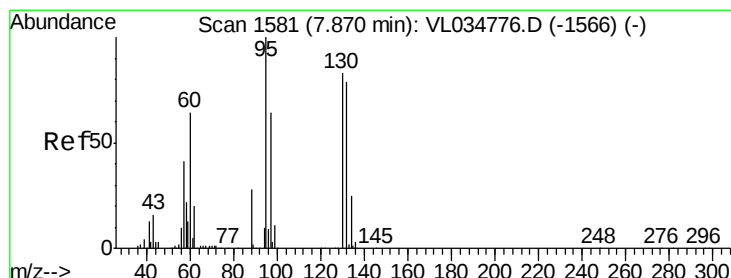
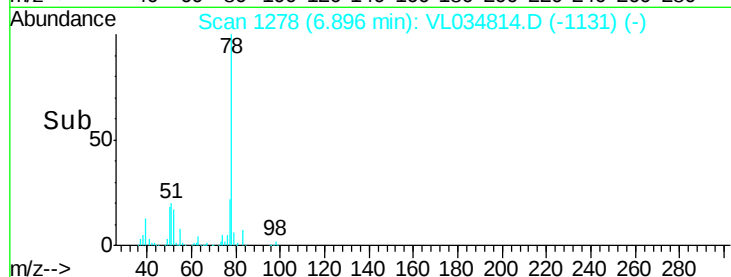
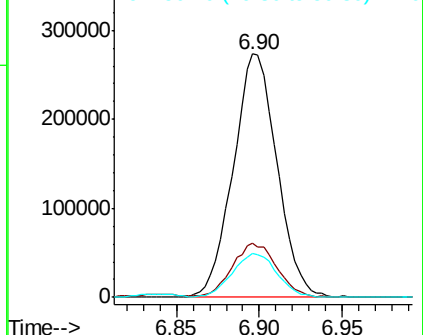
78 100

77 22.3 18.0 27.0

50 17.8 16.9 25.3



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 14.662 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. -0.02 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Tgt Ion: 130 Resp: 542424

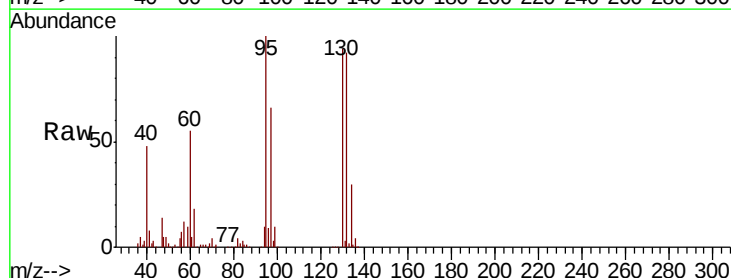
Ion Ratio Lower Upper

130 100

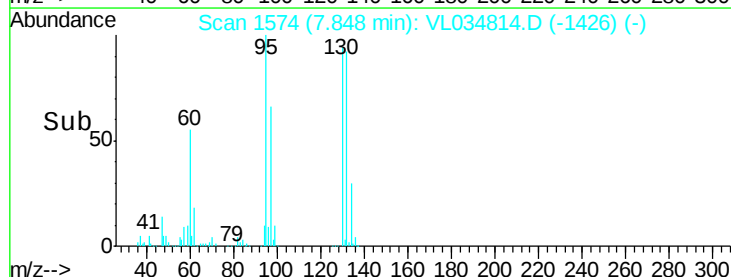
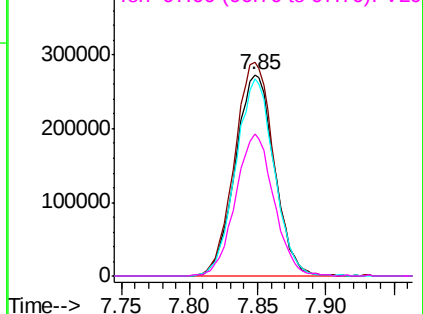
95 105.9 95.8 143.8

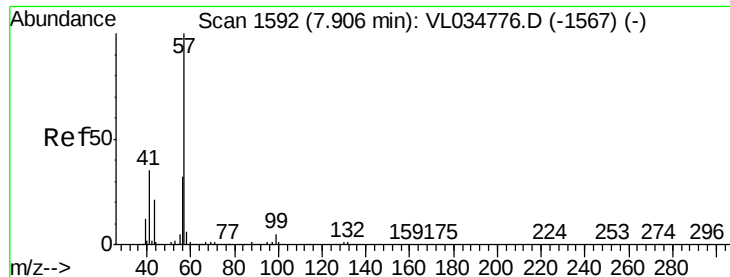
132 97.8 76.1 114.1

97 70.3 61.1 91.7



Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0



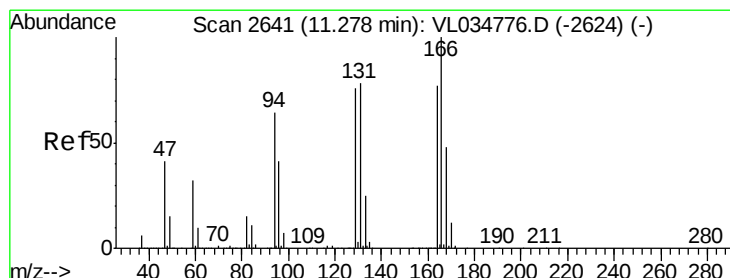
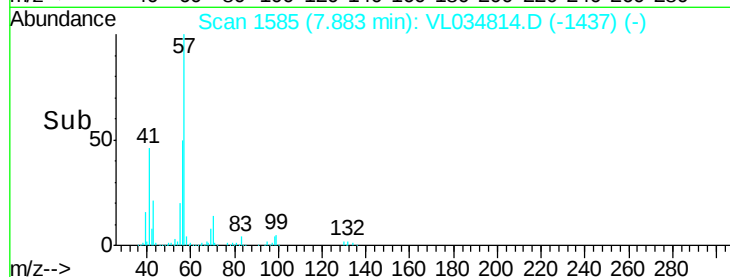
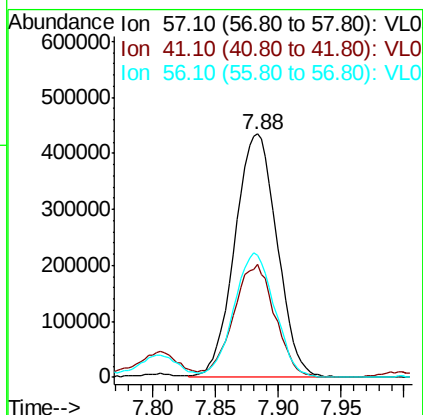
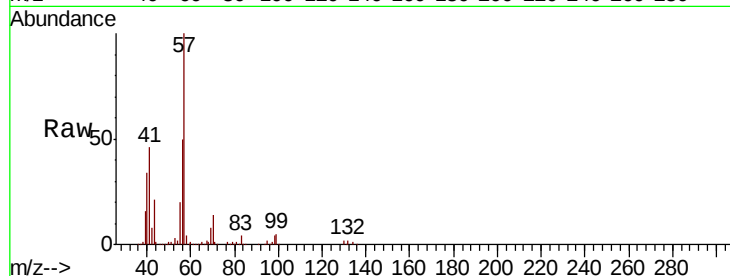


#44
 2,2,4-Trimethylpentane
 Concen: 6.113 ppbv
 RT: 7.88 min Scan# 1585
 Delta R.T. -0.02 min
 Lab File: VL034814.D
 Acq: 6 Mar 2020 4:05

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2-4DL

Tot Ion: 57 Resp: 1013909

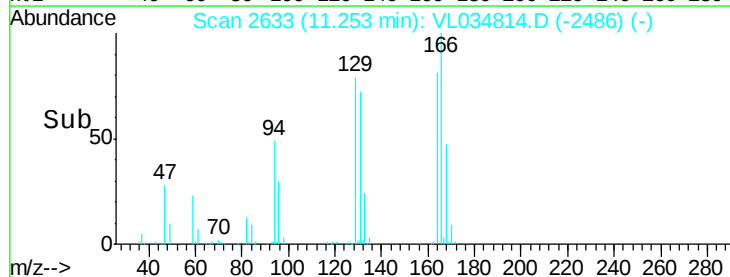
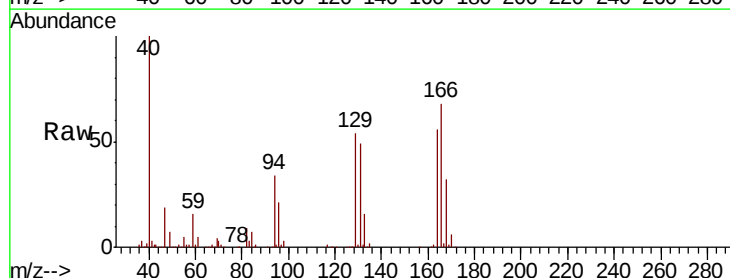
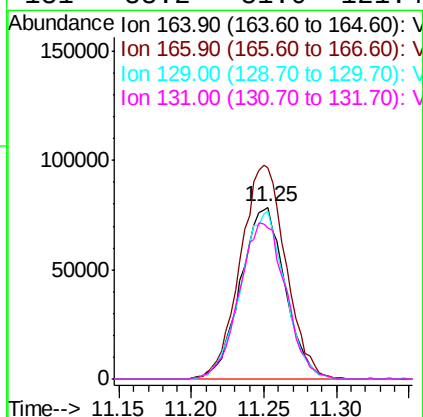
Ion	Ratio	Lower	Upper
57	100		
41	45.7	27.4	41.0#
56	49.4	25.0	37.6#

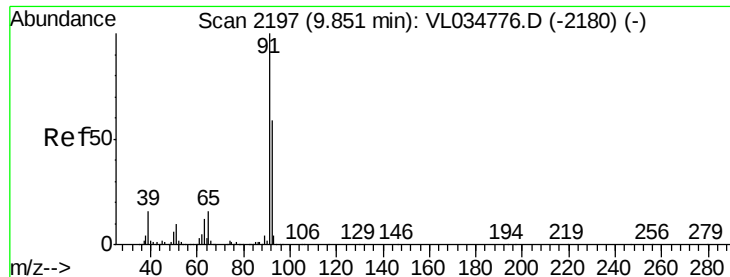


#52
 Tetrachloroethene
 Concen: 4.799 ppbv
 RT: 11.25 min Scan# 2633
 Delta R.T. -0.03 min
 Lab File: VL034814.D
 Acq: 6 Mar 2020 4:05

Tgt Ion: 164 Resp: 168284

Ion	Ratio	Lower	Upper
164	100		
166	122.7	103.3	154.9
129	97.5	79.0	118.4
131	88.2	81.0	121.4





#53

Toluene

Concen: 1.488 ppbv

RT: 9.83 min Scan# 2189

Delta R.T. -0.03 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

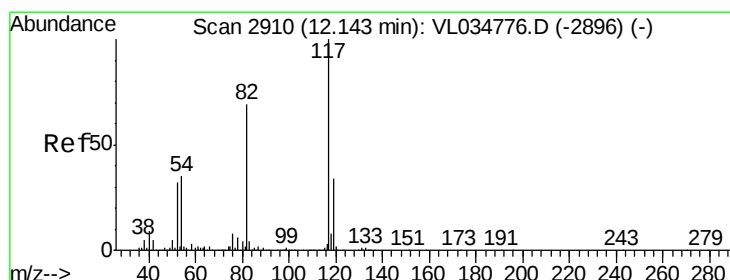
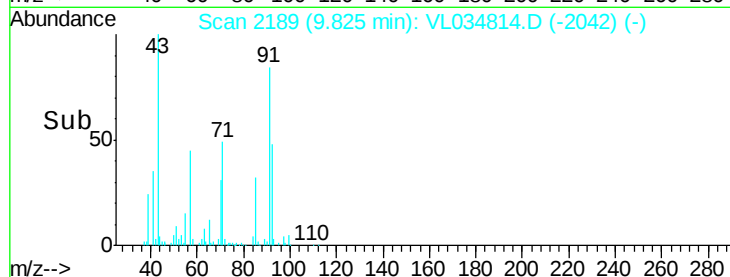
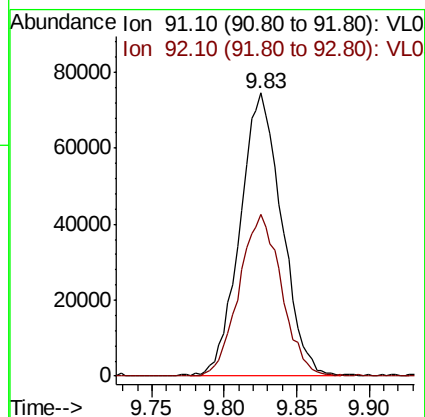
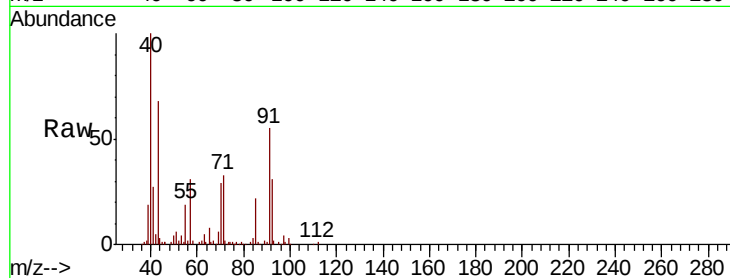
SS-2-4DL

Tot Ion: 91 Resp: 149455

Ion Ratio Lower Upper

91 100

92 57.8 48.2 72.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.11 min Scan# 2900

Delta R.T. -0.03 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

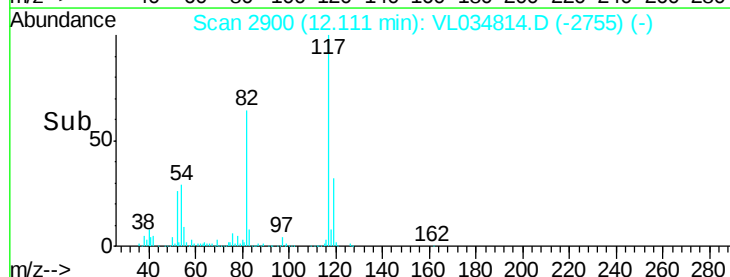
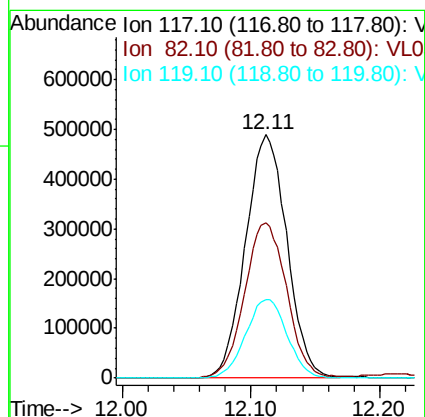
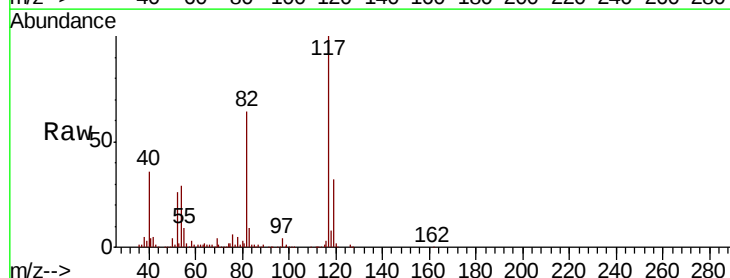
Tgt Ion: 117 Resp: 1093957

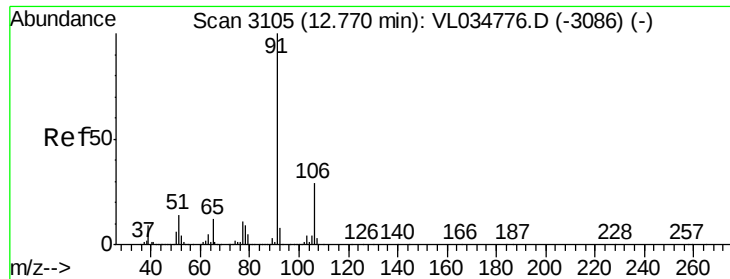
Ion Ratio Lower Upper

117 100

82 65.0 53.9 80.9

119 32.6 25.0 37.4





#58

Ethyl Benzene

Concen: 0.574 ppbv

RT: 12.74 min Scan# 3095

Delta R.T. -0.03 min

Lab File: VL034814.D

Acq: 6 Mar 2020 4:05

Instrument :

MSVOA_L

ClientSampleId :

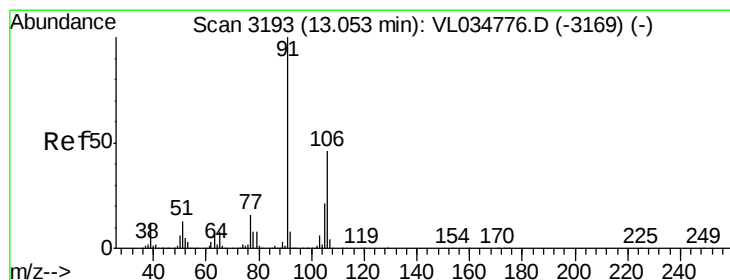
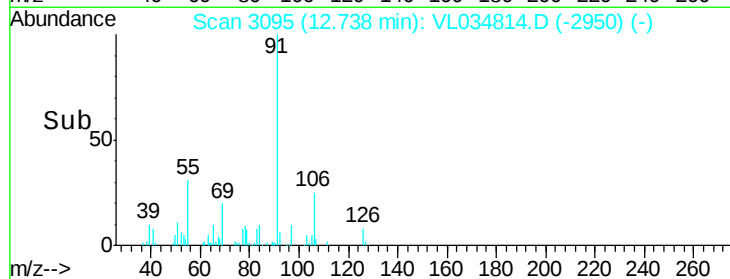
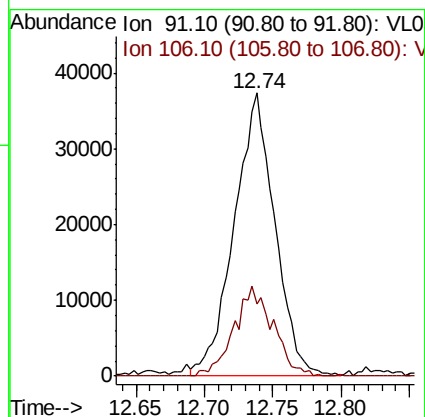
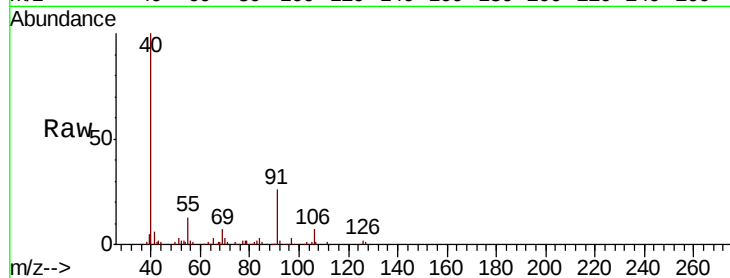
SS-2-4DL

Tot Ion: 91 Resp: 77417

Ion Ratio Lower Upper

91 100

106 25.4 22.8 34.2



#59

m/p-Xylene

Concen: 2.085 ppbv

RT: 12.99 min Scan# 3173

Delta R.T. -0.06 min

Lab File: VL034814.D

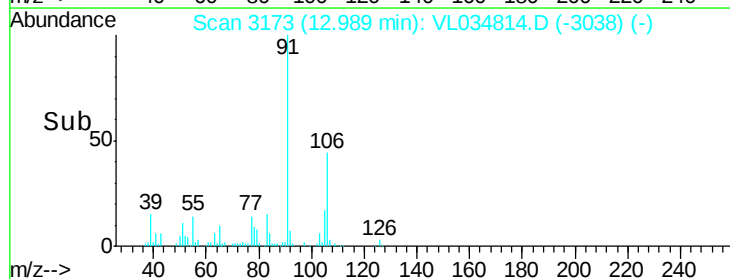
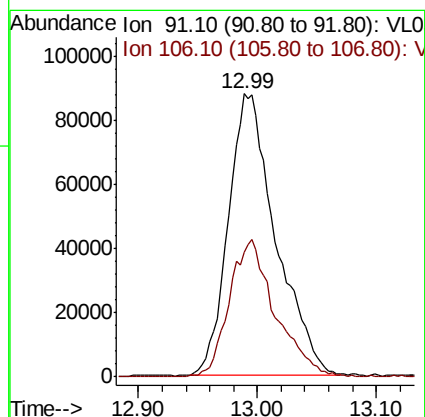
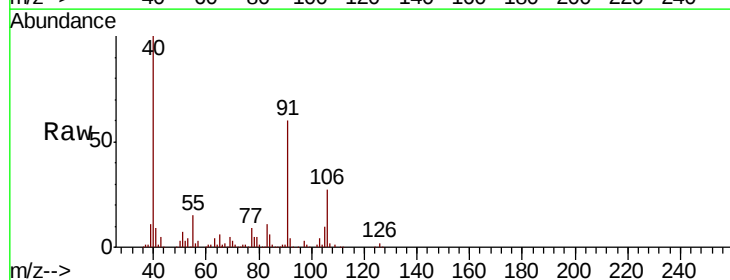
Acq: 6 Mar 2020 4:05

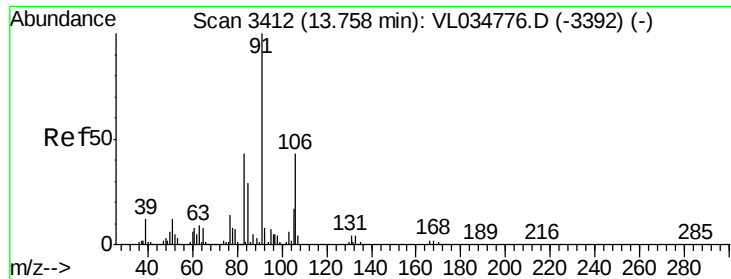
Tgt Ion: 91 Resp: 243290

Ion Ratio Lower Upper

91 100

106 47.4 35.8 53.8

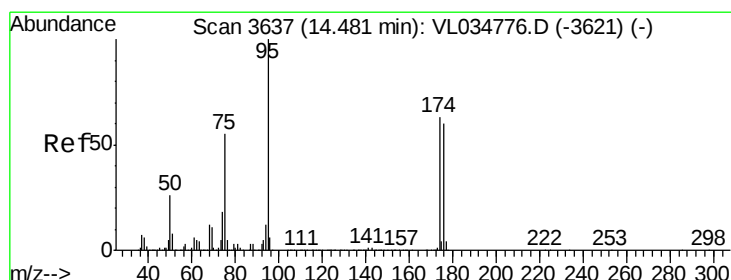
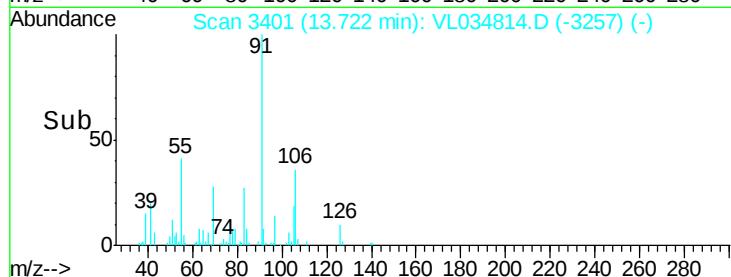
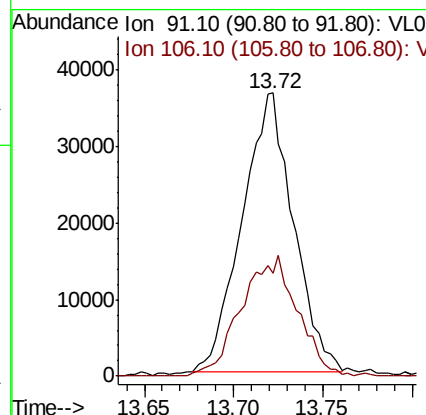
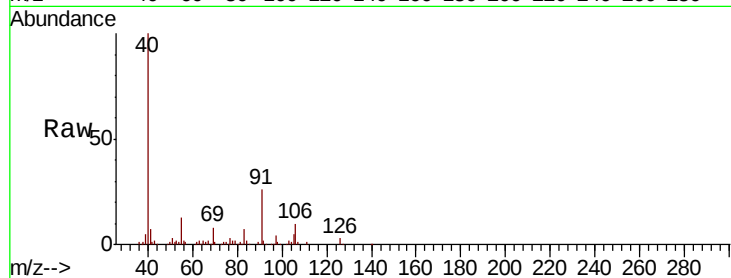




#60
o-Xylene
Concen: 0.625 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. -0.04 min
Lab File: VL034814.D
Acq: 6 Mar 2020 4:05

Instrument :
MSVOA_L
ClientSampleId :
SS-2-4DL

Tot Ion: 91 Resp: 73827
Ion Ratio Lower Upper
91 100
106 46.9 21.7 65.1



#68
1-Bromo-4-Fluorobenzene
Concen: 9.510 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.03 min
Lab File: VL034814.D
Acq: 6 Mar 2020 4:05

Tgt Ion: 95 Resp: 867460
Ion Ratio Lower Upper
95 100
174 73.7 50.6 76.0
175 5.6 3.8 5.6

