

Data File : VV014640.D
Acq On : 20 Feb 2020 21:41
Operator : SY/MD
Sample : L1607-18
Misc : 5.0mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0AQ4

Quant Time: Feb 21 03:37:27 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM021220WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Feb 21 03:31:59 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	268038	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	261937	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	124888	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	51088	49.63	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	99.26%
7) Chloroethane-d5	1.58	69	38784	53.57	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	107.14%
11) 1,1-Dichloroethene-d2	2.13	63	78170	45.51	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	91.02%
21) 2-Butanone-d5	3.93	46	90158	105.62	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.62%
24) Chloroform-d	4.40	84	154907	51.60	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	103.20%
26) 1,2-Dichloroethane-d4	5.08	65	103188	55.41	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	110.82%
32) Benzene-d6	5.10	84	326544	52.13	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.26%
36) 1,2-Dichloropropane-d6	6.14	67	102682	54.42	ug/L	0.03
Spiked Amount	50.000	Range	70 - 120	Recovery	=	108.84%
41) Toluene-d8	7.36	98	323261	53.64	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.28%
43) trans-1,3-Dichloropropene-	7.66	79	55661	53.50	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.00%
47) 2-Hexanone-d5	8.13	63	77028	102.17	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	102.17%
57) 1,1,2,2-Tetrachloroethane-	10.25	84	129176	50.44	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	100.88%
64) 1,2-Dichlorobenzene-d4	11.67	152	118581	53.74	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	107.48%

Target Compounds

						Qvalue
9) Trichlorofluoromethane	2.14	101	57634	27.783	ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	61065	69.052	ug/L	98
12) 1,1-Dichloroethene	2.14	96	14927	18.158	ug/L #	36
13) Acetone	2.19	43	3668	5.009	ug/L	75
20) cis-1,2-Dichloroethene	3.96	96	24807	13.232	ug/L	96
25) Chloroform	4.43	83	13103	4.165	ug/L	99
30) 1,1,1-Trichloroethane	4.66	97	351410	123.323	ug/L	99
31) Carbon tetrachloride	4.88	117	21625	8.405	ug/L	98
33) Benzene	5.15	78	15230	2.215	ug/L	100
38) Bromodichloromethane	6.56	83	3688	1.481	ug/L #	92
39) cis-1,3-Dichloropropene	7.03	75	3836	1.280	ug/L #	60
40) 4-Methyl-2-pentanone	7.27	43	298310	142.213	ug/L	99
42) Toluene	7.43	91	506853	67.586	ug/L	99
44) trans-1,3-Dichloropropene	7.66	75	2646	0.977	ug/L	89
45) 1,1,2-Trichloroethane	7.88	97	47897	27.305	ug/L	98
46) Tetrachloroethene	8.02	164	19317	13.237	ug/L	98
52) Ethylbenzene	9.05	91	6303	0.741	ug/L	90

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV022020\
Quantitation Report (Not Reviewed)

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Response via : Initial Calibration

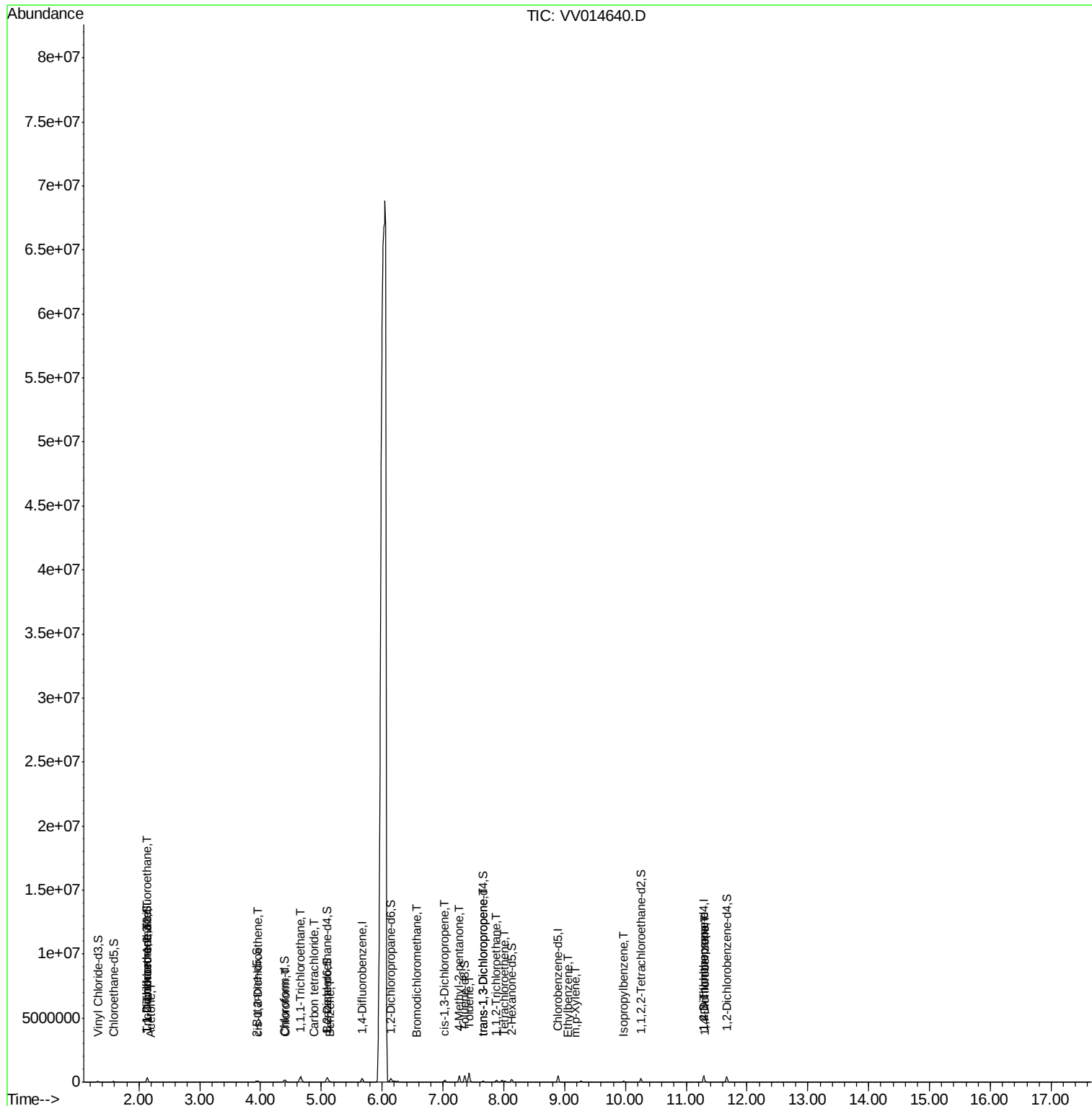
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) m,p-Xylene	9.18	106	3117	0.939	ug/L	81
56) Isopropylbenzene	9.97	105	30788	3.646	ug/L	98
59) 1,2,3-Trichloropropane	11.29	75	14892	6.814	ug/L	93
63) 1,4-Dichlorobenzene	11.31	146	3529	0.917	ug/L #	87

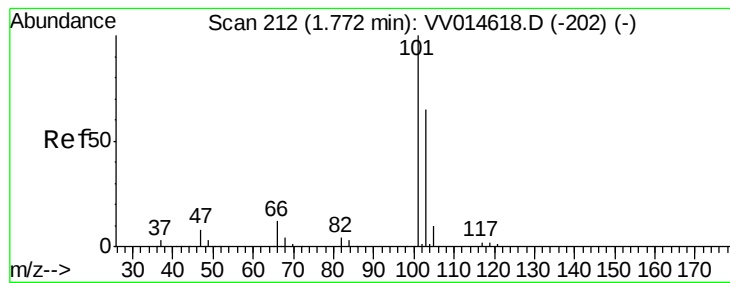
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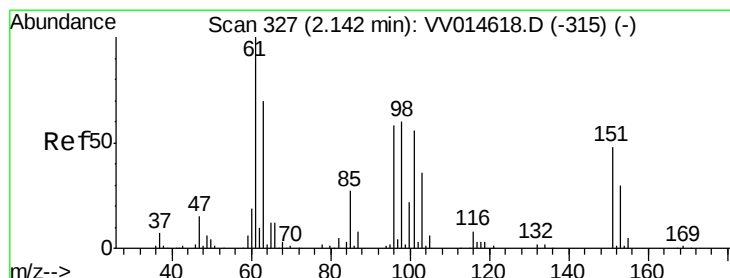
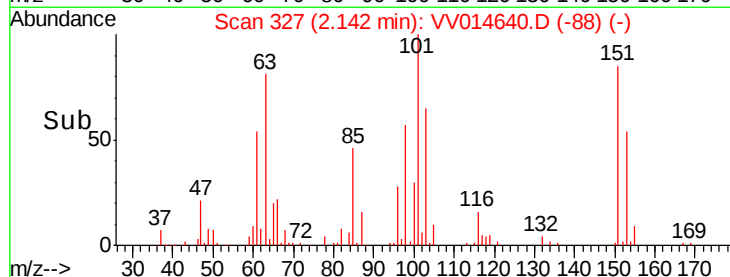
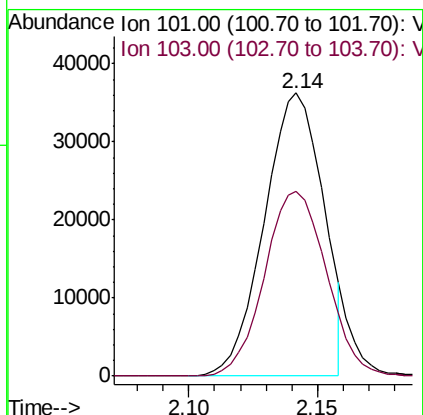
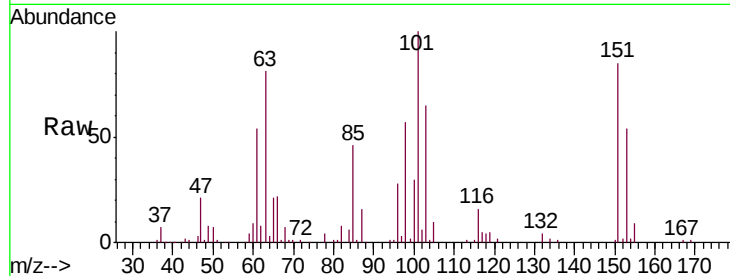


#9

Trichlorofluoromethane
Concen: 27.783 ug/L
RT: 2.14 min Scan# 327
Delta R.T. 0.37 min
Lab File: VV014640.D
Acq: 20 Feb 2020 21:41

Instrument :
MSVOA_V
ClientSampled :
C0AQ4

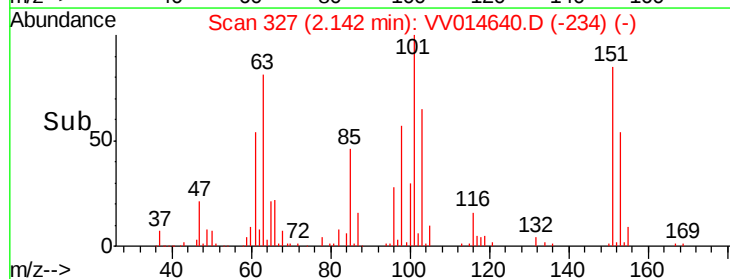
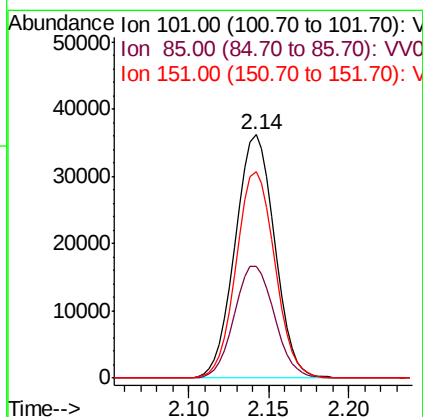
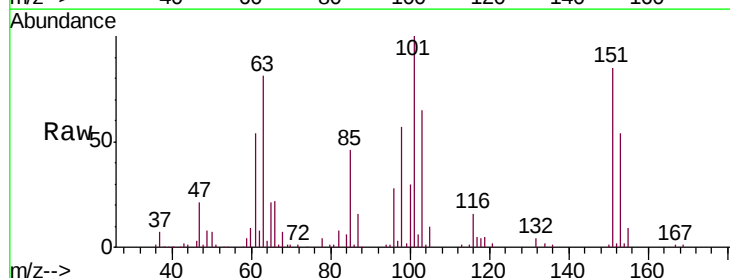
Tgt Ion:101 Resp: 57634
Ion Ratio Lower Upper
101 100
103 65.3 52.2 78.2

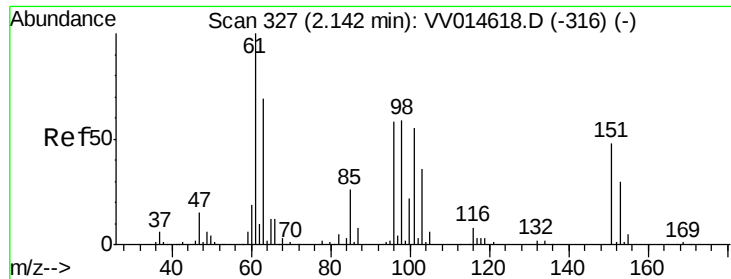


#10

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 69.052 ug/L
RT: 2.14 min Scan# 327
Delta R.T. 0.00 min
Lab File: VV014640.D
Acq: 20 Feb 2020 21:41

Tgt Ion:101 Resp: 61065
Ion Ratio Lower Upper
101 100
85 46.8 35.4 53.0
151 83.0 65.4 98.2

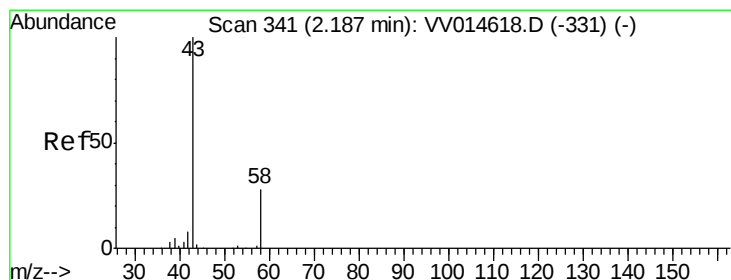
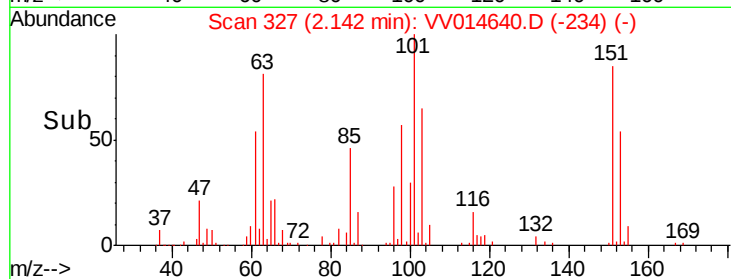
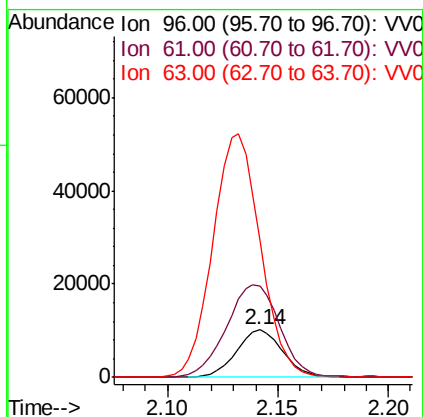
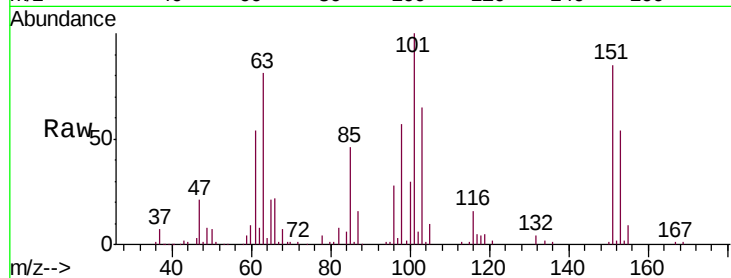




#12
 1,1-Dichloroethene
 Concen: 18.158 ug/L
 RT: 2.14 min Scan# 327
 Delta R.T. 0.00 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

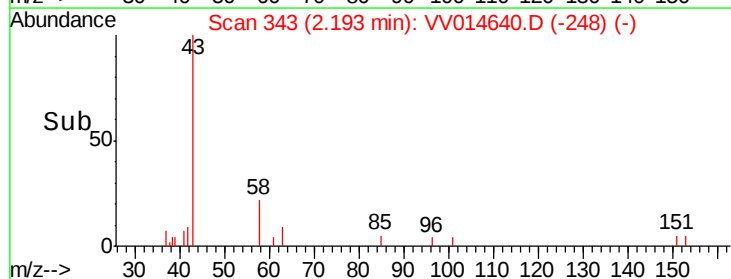
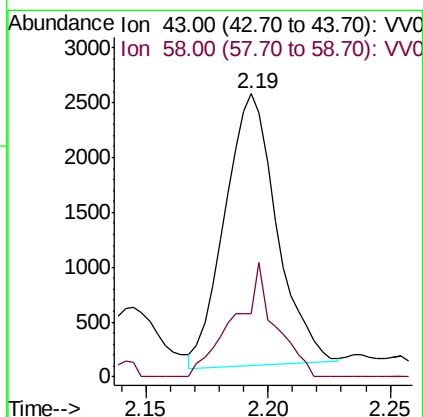
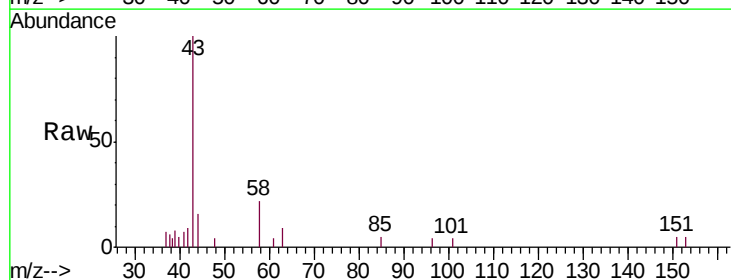
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AQ4

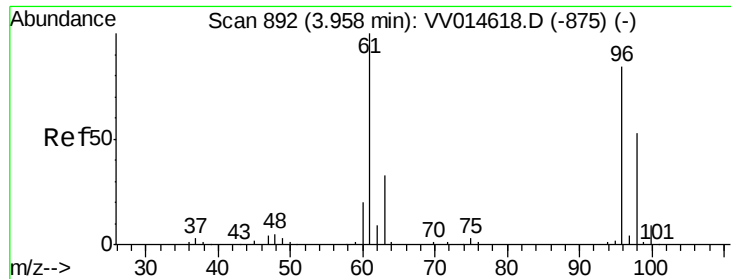
Tgt Ion	Resp	Lower	Upper
96	14927		
Ion Ratio			
96	100		
61	191.5	124.2	230.6
63	288.0	89.2	165.8#



#13
 Acetone
 Concen: 5.009 ug/L
 RT: 2.19 min Scan# 343
 Delta R.T. 0.01 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

Tgt Ion	Resp	Lower	Upper
43	3668		
Ion Ratio			
43	100		
58	16.1	0.0	58.8

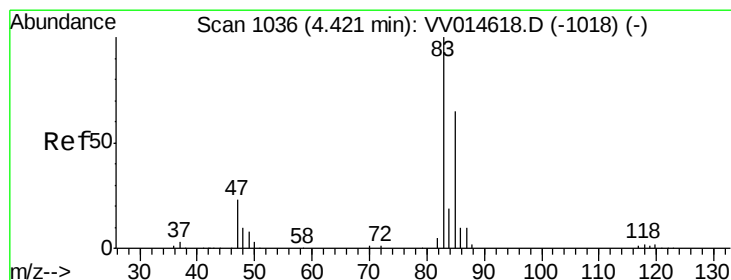
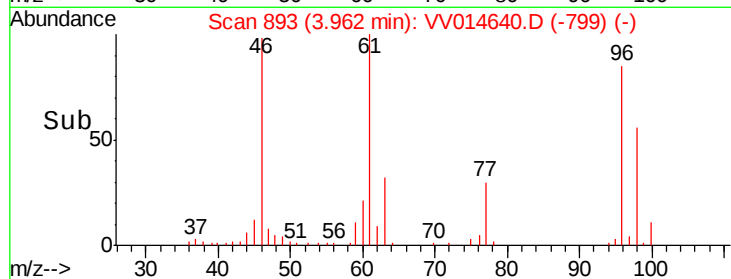
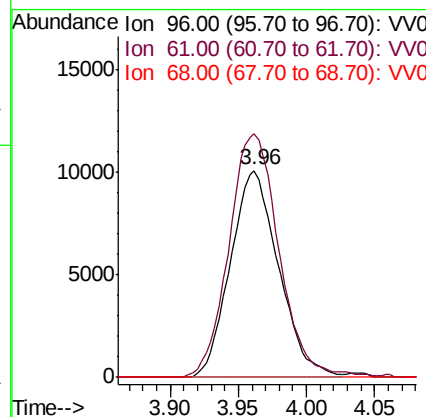
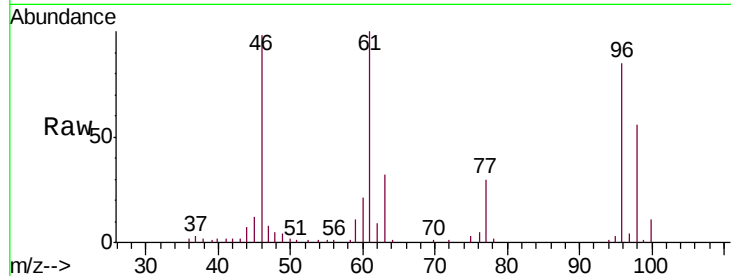




#20
 cis-1,2-Dichloroethene
 Concen: 13.232 ug/L
 RT: 3.96 min Scan# 893
 Delta R.T. 0.00 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

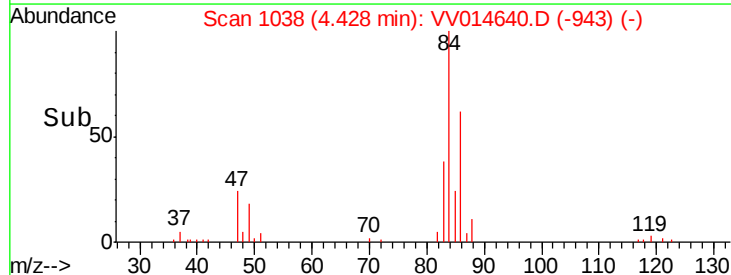
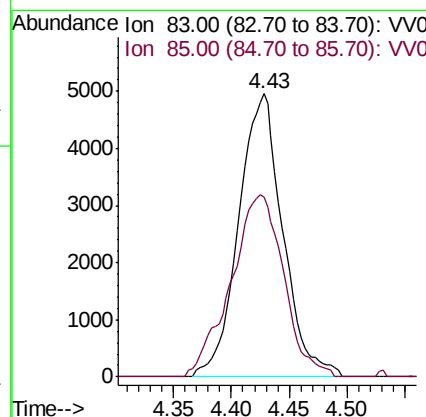
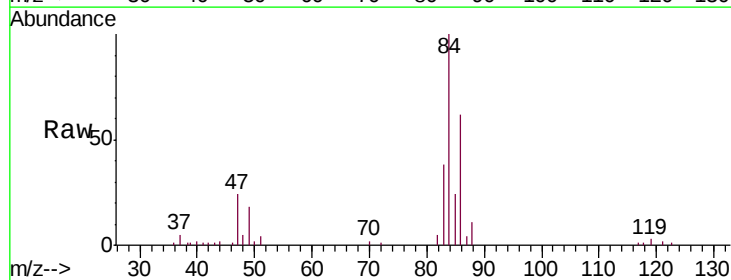
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AQ4

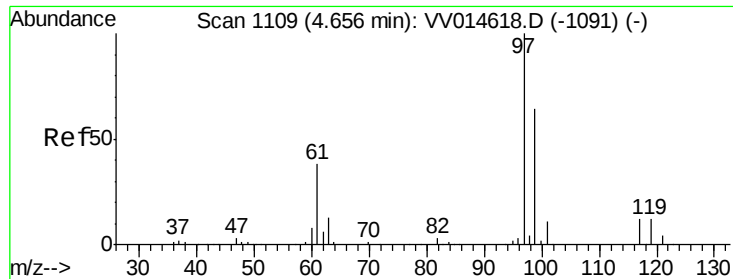
Tgt Ion: 96 Resp: 24807
 Ion Ratio Lower Upper
 96 100
 61 117.9 85.9 159.5
 68 0.0 0.0 0.0



#25
 Chloroform
 Concen: 4.165 ug/L
 RT: 4.43 min Scan# 1038
 Delta R.T. 0.01 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

Tgt Ion: 83 Resp: 13103
 Ion Ratio Lower Upper
 83 100
 85 63.6 45.0 83.6

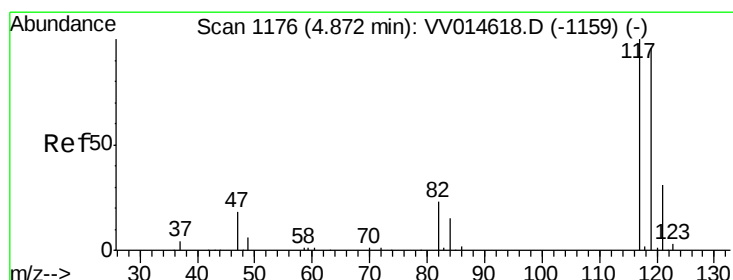
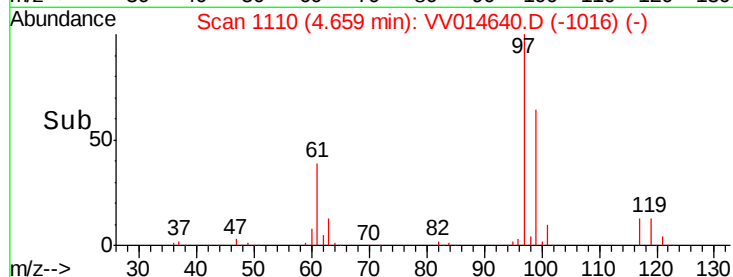
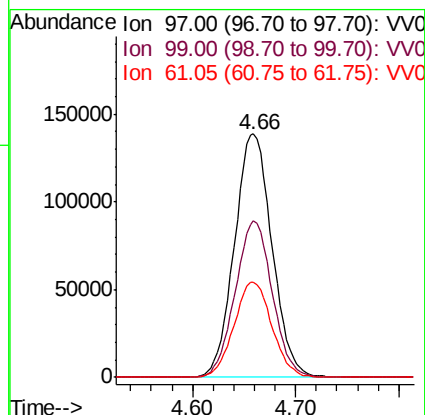
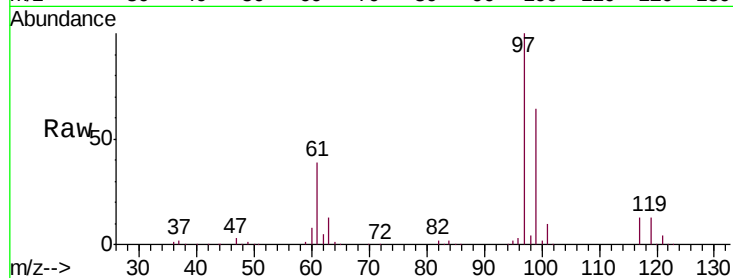




#30
 1,1,1-Trichloroethane
 Concen: 123.323 ug/L
 RT: 4.66 min Scan# 1110
 Delta R.T. 0.00 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

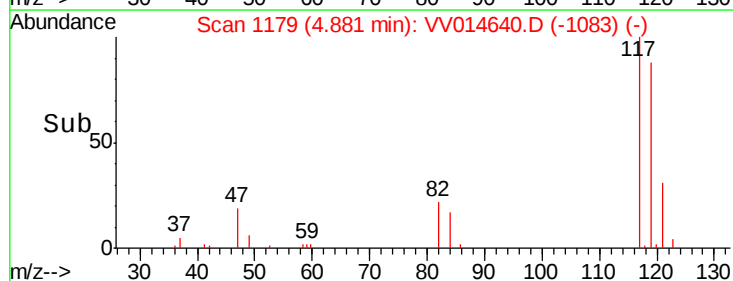
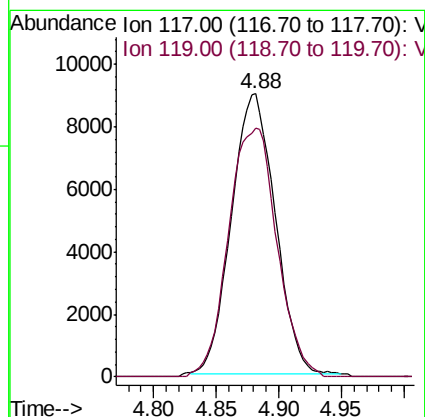
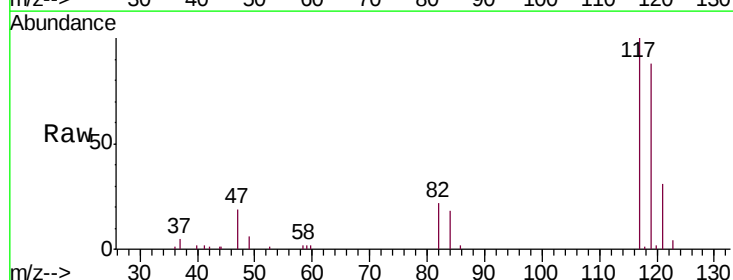
Instrument :
 MSVOA_V
 ClientSampleId :
 C0AQ4

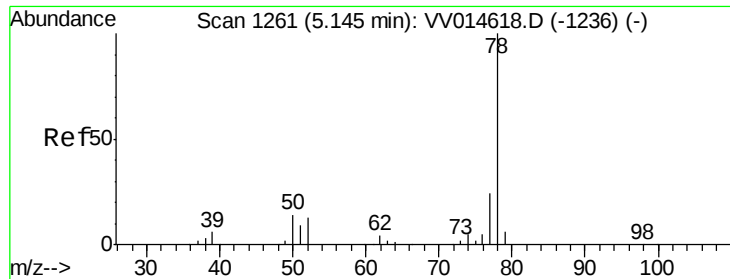
Tgt Ion: 97 Resp: 351410
 Ion Ratio Lower Upper
 97 100
 99 63.6 51.2 76.8
 61 39.5 32.4 48.6



#31
 Carbon tetrachloride
 Concen: 8.405 ug/L
 RT: 4.88 min Scan# 1179
 Delta R.T. 0.01 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

Tgt Ion: 117 Resp: 21625
 Ion Ratio Lower Upper
 117 100
 119 98.8 77.6 116.4





#33

Benzene

Concen: 2.215 ug/L

RT: 5.15 min Scan# 1264

Delta R.T. 0.01 min

Lab File: VV014640.D

Acq: 20 Feb 2020 21:41

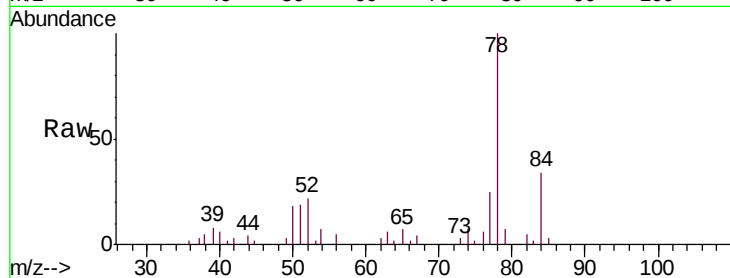
Instrument :

MSVOA_V

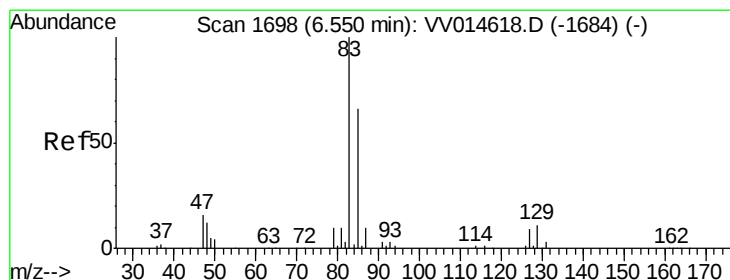
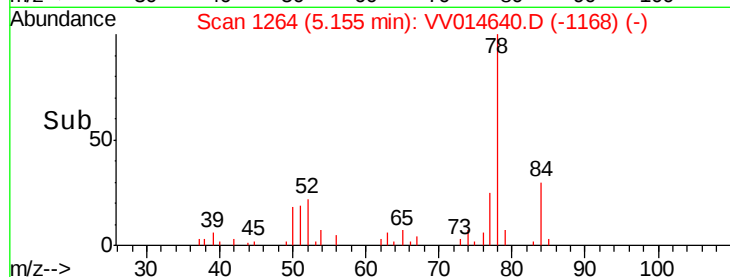
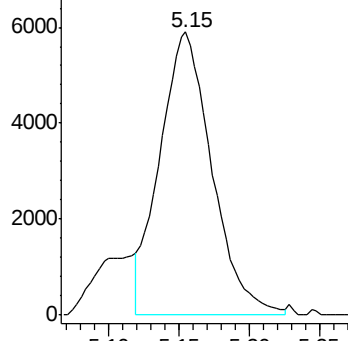
ClientSampleId :

C0AQ4

Tgt Ion: 78 Resp: 15230



Abundance Ion 78.00 (77.70 to 78.70): VV0



#38

Bromodichloromethane

Concen: 1.481 ug/L

RT: 6.56 min Scan# 1702

Delta R.T. 0.01 min

Lab File: VV014640.D

Acq: 20 Feb 2020 21:41

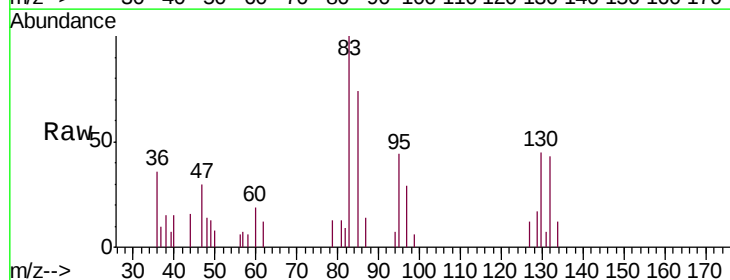
Tgt Ion: 83 Resp: 3688

Ion Ratio Lower Upper

83 100

85 74.1 47.3 87.8

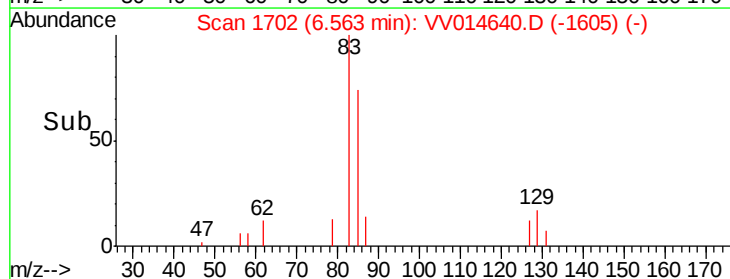
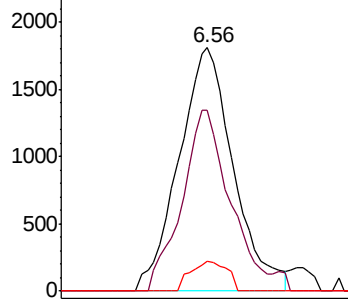
127 12.1 7.5 11.3#

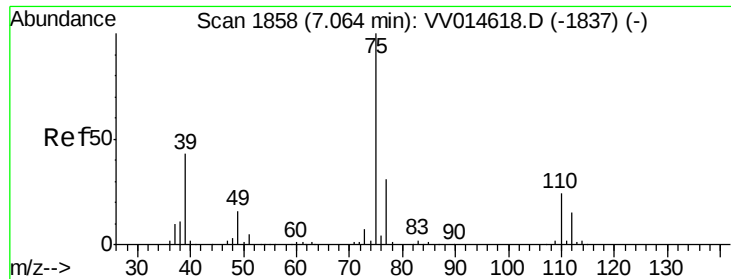


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 127.00 (126.70 to 127.70): V

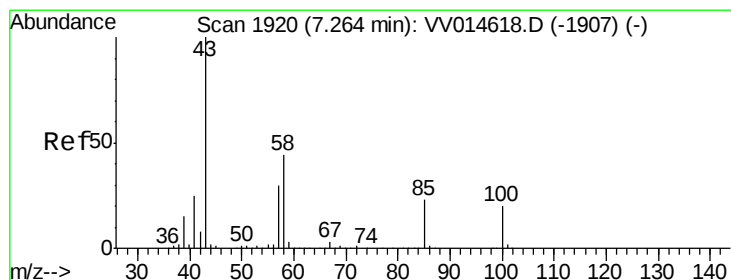
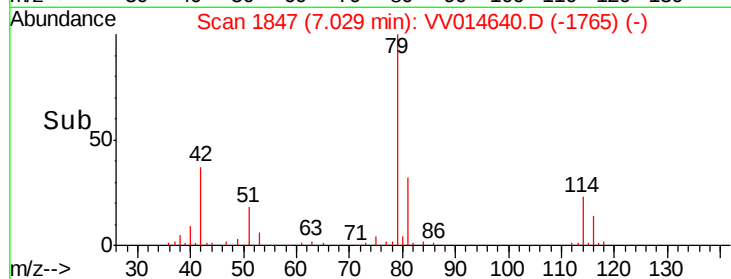
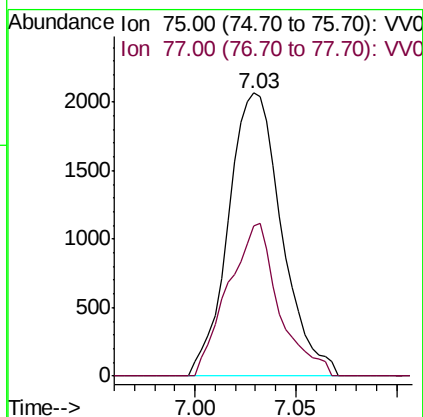
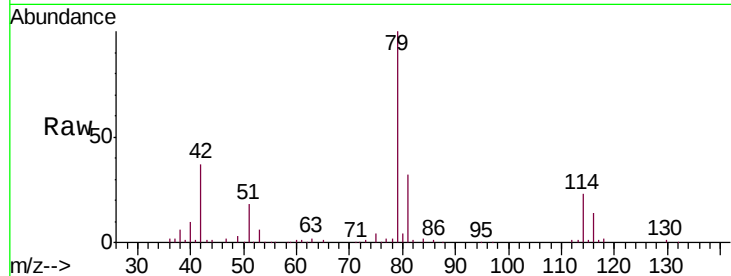




#39
 cis-1,3-Dichloropropene
 Concen: 1.280 ug/L
 RT: 7.03 min Scan# 1847
 Delta R.T. -0.04 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

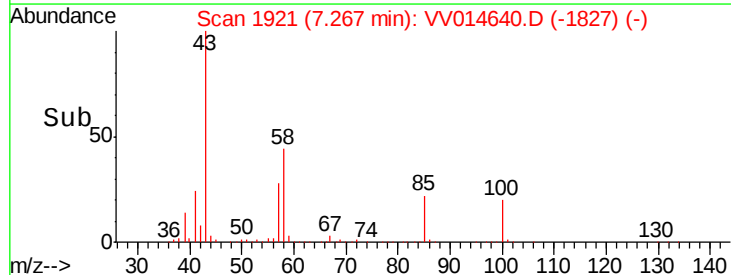
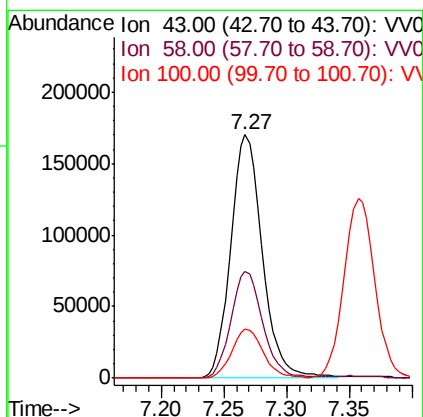
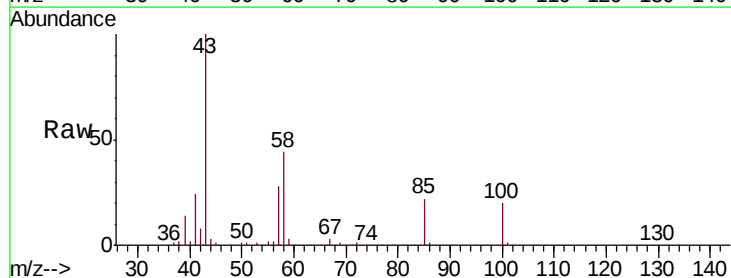
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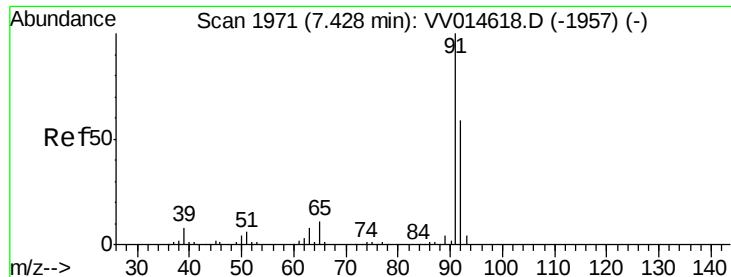
Tgt Ion: 75 Resp: 3836
 Ion Ratio Lower Upper
 75 100
 77 53.2 21.7 40.3#



#40
 4-Methyl-2-pentanone
 Concen: 142.213 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VV014640.D
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Tgt Ion: 43 Resp: 298310
 Ion Ratio Lower Upper
 43 100
 58 44.1 35.0 52.6
 100 20.1 15.7 23.5





#42

Toluene

Concen: 67.586 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV014640.D

Acq: 20 Feb 2020 21:41

Instrument :

MSVOA_V

ClientSampleId :

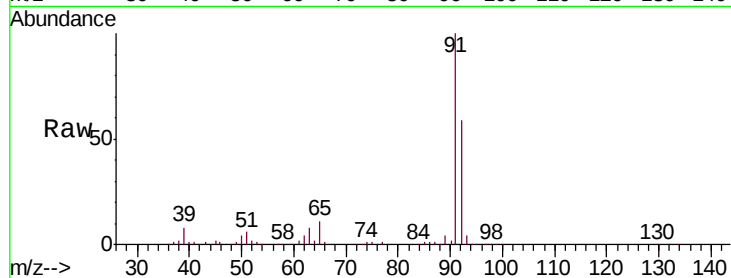
C0AQ4

Tgt Ion: 91 Resp: 506853

Ion Ratio Lower Upper

91 100

92 59.5 40.9 76.0



Abundance Ion 91.00 (90.70 to 91.70): VV014618.D (-1957) (-)

Ion 92.00 (91.70 to 92.70): VV014618.D (-1957) (-)

7.43

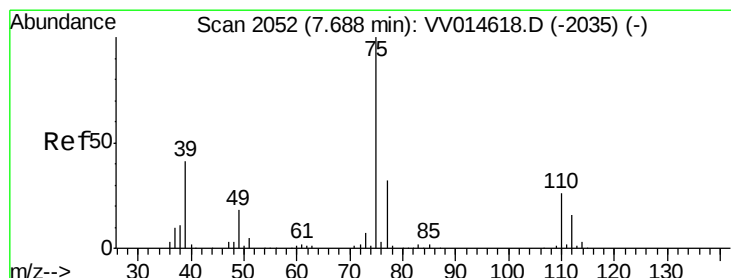
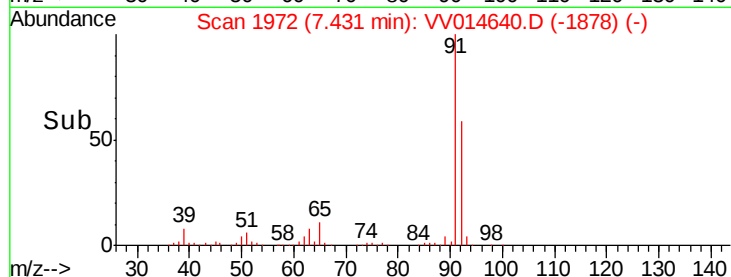
300000

200000

100000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.977 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV014640.D

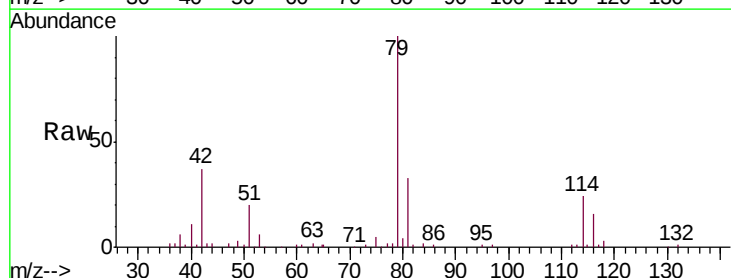
Acq: 20 Feb 2020 21:41

Tgt Ion: 75 Resp: 2646

Ion Ratio Lower Upper

75 100

77 37.2 21.7 40.3



Abundance Ion 75.00 (74.70 to 75.70): VV014618.D (-2035) (-)

Ion 77.00 (76.70 to 77.70): VV014618.D (-2035) (-)

7.66

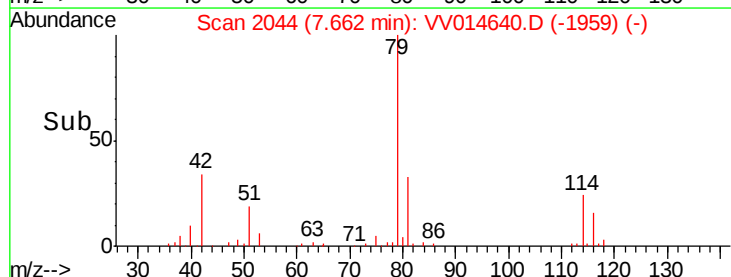
1500

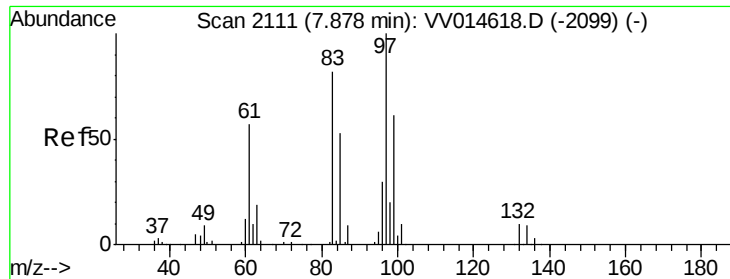
1000

500

0

Time-->

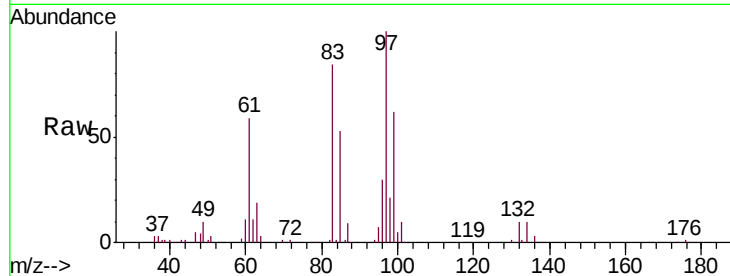




#45
 1,1,2-Trichloroethane
 Concen: 27.305 ug/L
 RT: 7.88 min Scan# 2111
 Delta R.T. 0.00 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AQ4

Tgt Ion:	97	Resp:	47897
Ion	Ratio	Lower	Upper
97	100		
99	61.7	44.9	83.3
83	84.1	57.5	106.7
85	52.6	37.5	69.7

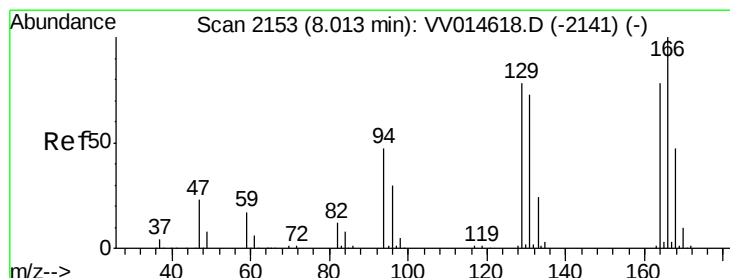
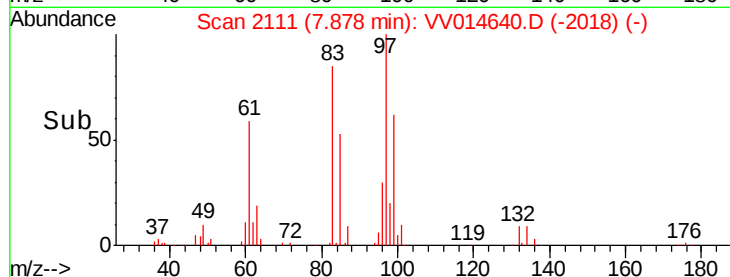
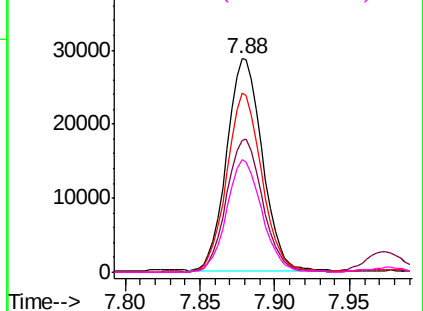


Abundance Ion 97.00 (96.70 to 97.70): VV014640.D (-2099) (-)

Ion 99.00 (98.70 to 99.70): VV014640.D (-2099) (-)

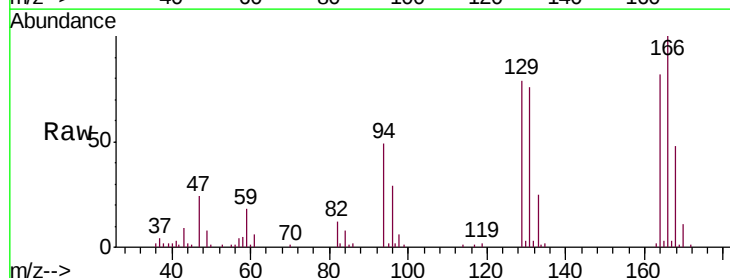
Ion 83.00 (82.70 to 83.70): VV014640.D (-2099) (-)

Ion 85.00 (84.70 to 85.70): VV014640.D (-2099) (-)



#46
 Tetrachloroethene
 Concen: 13.237 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

Tgt Ion:	164	Resp:	19317
Ion	Ratio	Lower	Upper
164	100		
129	95.9	67.8	126.0
131	93.0	64.5	119.9
166	121.7	88.6	164.6

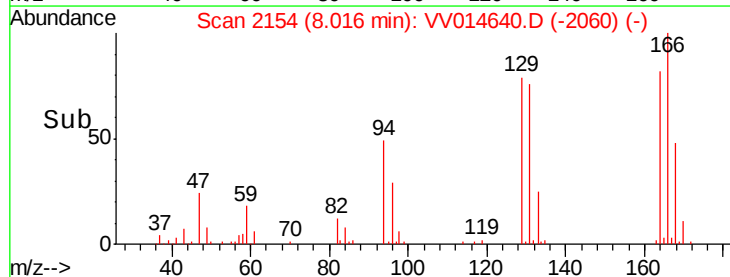
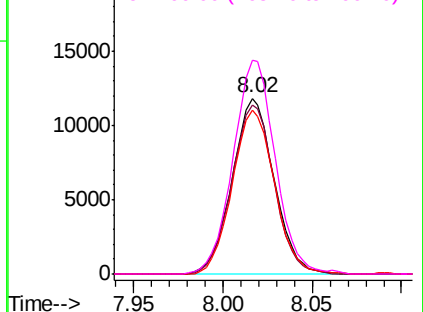


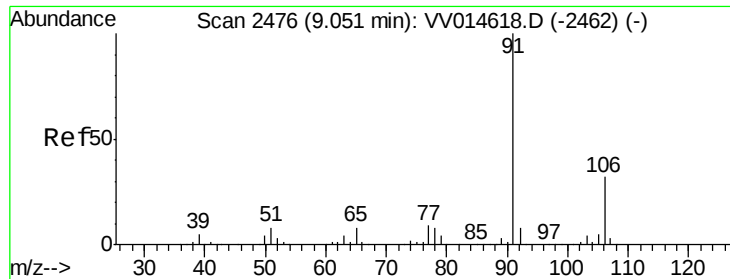
Abundance Ion 164.00 (163.70 to 164.70): VV014640.D (-2060) (-)

Ion 129.00 (128.70 to 129.70): VV014640.D (-2060) (-)

Ion 131.00 (130.70 to 131.70): VV014640.D (-2060) (-)

Ion 166.00 (165.70 to 166.70): VV014640.D (-2060) (-)





#52

Ethylbenzene

Concen: 0.741 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. 0.00 min

Lab File: VV014640.D

Acq: 20 Feb 2020 21:41

Instrument :

MSVOA_V

ClientSampleId :

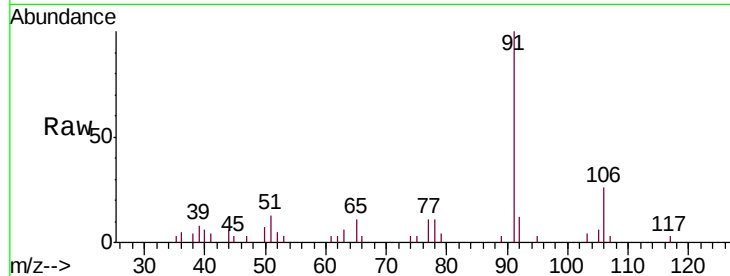
C0AQ4

Tgt Ion: 91 Resp: 6303

Ion Ratio Lower Upper

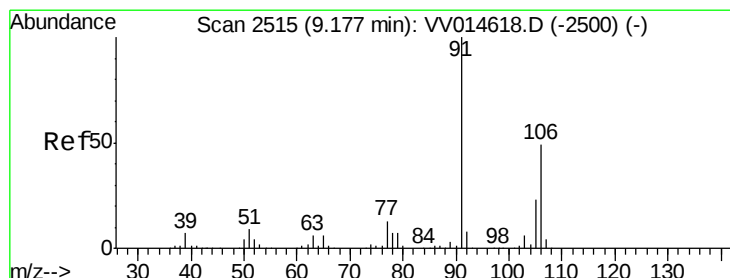
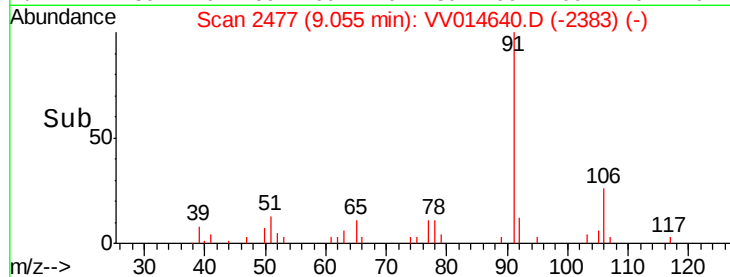
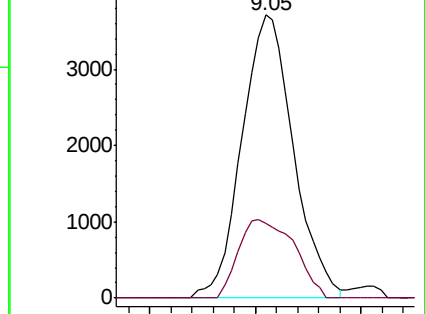
91 100

106 26.2 22.3 41.5



Abundance Ion 91.00 (90.70 to 91.70): VV014618.D (-2462) (-)

Ion 106.00 (105.70 to 106.70): VV014618.D (-2462) (-)



#53

m,p-Xylene

Concen: 0.939 ug/L

RT: 9.18 min Scan# 2516

Delta R.T. 0.00 min

Lab File: VV014640.D

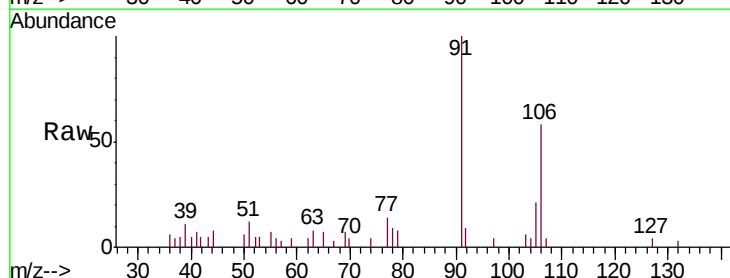
Acq: 20 Feb 2020 21:41

Tgt Ion: 106 Resp: 3117

Ion Ratio Lower Upper

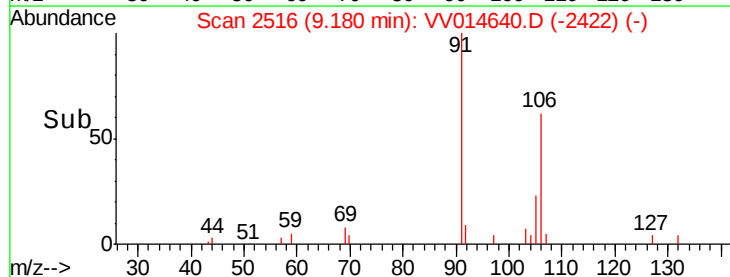
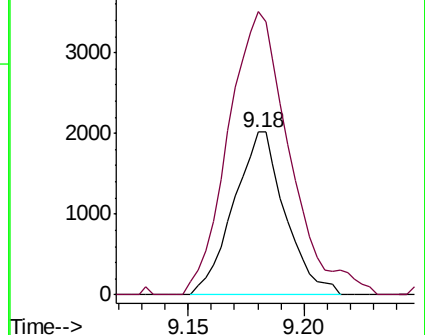
106 100

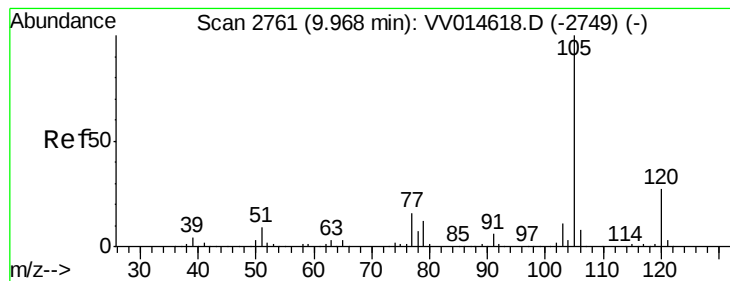
91 173.7 142.4 264.4



Abundance Ion 106.00 (105.70 to 106.70): VV014618.D (-2500) (-)

Ion 91.00 (90.70 to 91.70): VV014618.D (-2500) (-)





#56

Isopropylbenzene

Concen: 3.646 ug/L

RT: 9.97 min Scan# 2762

Delta R.T. 0.00 min

Lab File: VV014640.D

Acq: 20 Feb 2020 21:41

Instrument :

MSVOA_V

ClientSampled :

C0AQ4

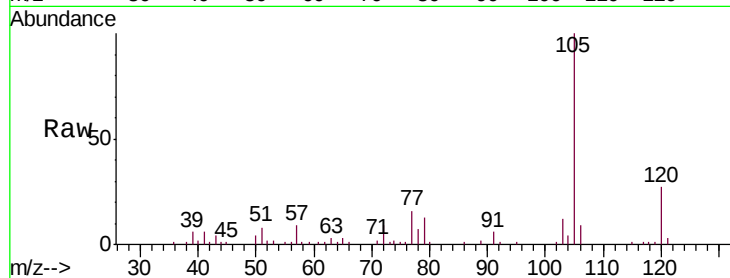
Tgt Ion: 105 Resp: 30788

Ion Ratio Lower Upper

105 100

120 27.3 21.5 32.3

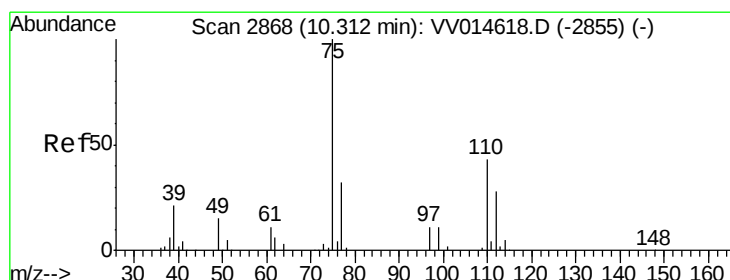
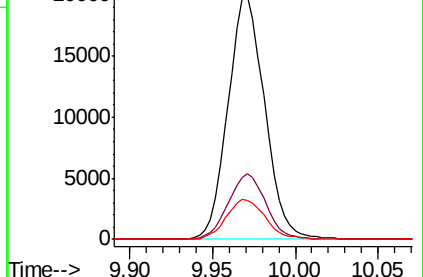
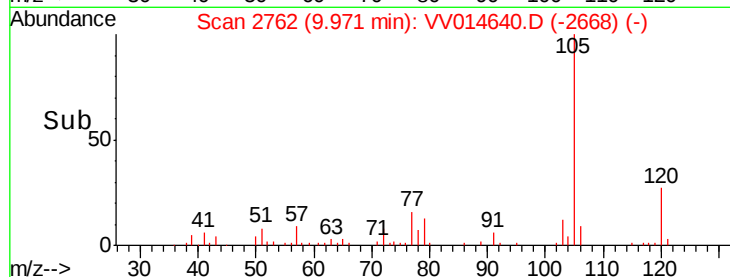
77 17.4 12.2 18.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#59

1,2,3-Trichloropropane

Concen: 6.814 ug/L

RT: 11.29 min Scan# 3171

Delta R.T. 0.97 min

Lab File: VV014640.D

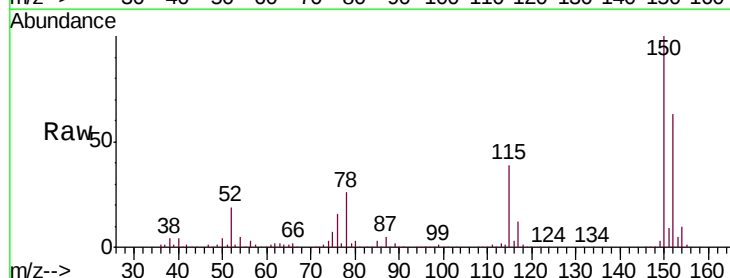
Acq: 20 Feb 2020 21:41

Tgt Ion: 75 Resp: 14892

Ion Ratio Lower Upper

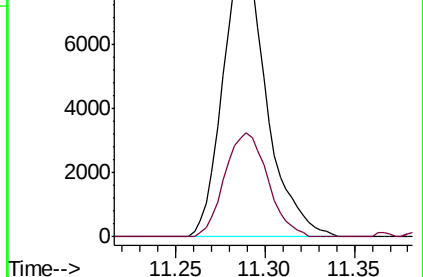
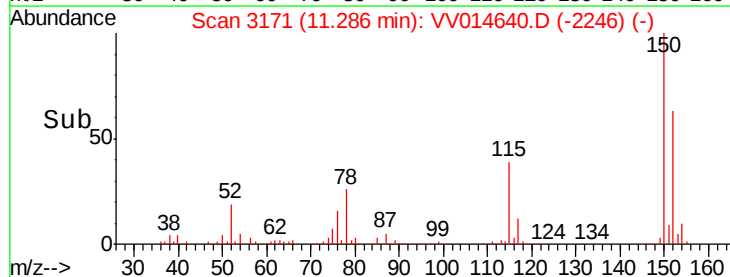
75 100

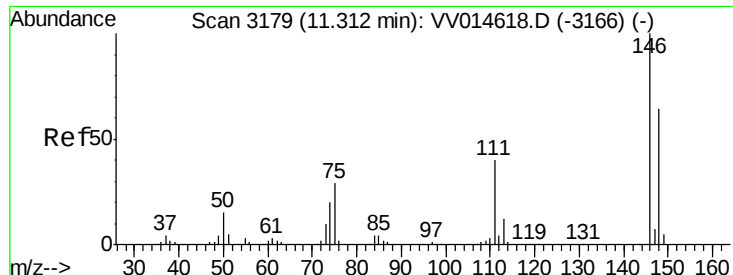
77 36.5 25.9 38.9



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0





#63
 1,4-Dichlorobenzene
 Concen: 0.917 ug/L
 RT: 11.31 min Scan# 3179
 Delta R.T. 0.00 min
 Lab File: VV014640.D
 Acq: 20 Feb 2020 21:41

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AQ4

Tgt Ion:	146	Resp:	3529
Ion	Ratio	Lower	Upper
146	100		
111	55.6	27.7	51.5#
148	67.2	44.1	81.9

