

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032620\
 Data File : VV015186.D
 Acq On : 26 Mar 2020 23:49
 Operator : SY/MD
 Sample : L1976-02MS
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Mar 27 03:40:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM032620WMA.M
 Quant Title : VOC Analysis
 QLast Update : Fri Mar 27 03:08:32 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	266436	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	209480	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	71089	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	77991	54.56	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	109.12%
7) Chloroethane-d5	1.91	69	300	0.21	ug/L	0.33
Spiked Amount	50.000	Range	70 - 130	Recovery	=	0.42%#
11) 1,1-Dichloroethene-d2	2.12	63	126590	38.84	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	77.68%
21) 2-Butanone-d5	3.93	46	262396	184.35	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	184.35%#
24) Chloroform-d	4.38	84	207941	66.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	132.74%#
26) 1,2-Dichloroethane-d4	5.06	65	175386	84.80	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	169.60%#
32) Benzene-d6	5.07	84	321056	74.51	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	149.02%#
36) 1,2-Dichloropropane-d6	6.09	67	137317	88.35	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	176.70%#
41) Toluene-d8	7.34	98	205467	52.62	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	105.24%
43) trans-1,3-Dichloropropene-	7.64	79	51029	60.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	120.56%
47) 2-Hexanone-d5	8.12	63	193532	212.94	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	212.94%#
57) 1,1,2,2-Tetrachloroethane-	10.24	84	249054	94.35	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	188.70%#
64) 1,2-Dichlorobenzene-d4	11.65	152	77489	58.38	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	116.76%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	152589	58.347	ug/L 100
12) 1,1-Dichloroethene	2.13	96	68727	31.983	ug/L 96
16) Methylene chloride	2.53	84	1811	0.903	ug/L # 73
17) trans-1,2-Dichloroethene	2.78	96	1759	0.942	ug/L 97
19) 1,1-Dichloroethane	3.21	63	3085	0.894	ug/L # 77
20) cis-1,2-Dichloroethene	3.94	96	538359	258.791	ug/L # 97
25) Chloroform	4.40	83	7116	2.002	ug/L 98
27) 1,2-Dichloroethane	5.13	62	2812	0.998	ug/L # 74
33) Benzene	5.13	78	381927	61.241	ug/L 100
34) Trichloroethene	5.94	95	87321	53.749	ug/L 98
42) Toluene	7.41	91	292773	42.079	ug/L 97
44) trans-1,3-Dichloropropene	7.64	75	2433	0.935	ug/L 84
51) Chlorobenzene	8.90	112	197243	44.383	ug/L 95
59) 1,2,3-Trichloropropane	11.27	75	10990	5.188	ug/L 89
63) 1,4-Dichlorobenzene	11.30	146	2817	1.170	ug/L # 77
65) 1,2-Dichlorobenzene	11.67	146	1695	0.701	ug/L # 78
68) 1,2,4-trichlorobenzene	13.30	180	1132	0.778	ug/L # 80

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Quant Title : VOC Analysis
QLast Update : Fri Mar 27 03:08:32 2020
Response via : Initial Calibration

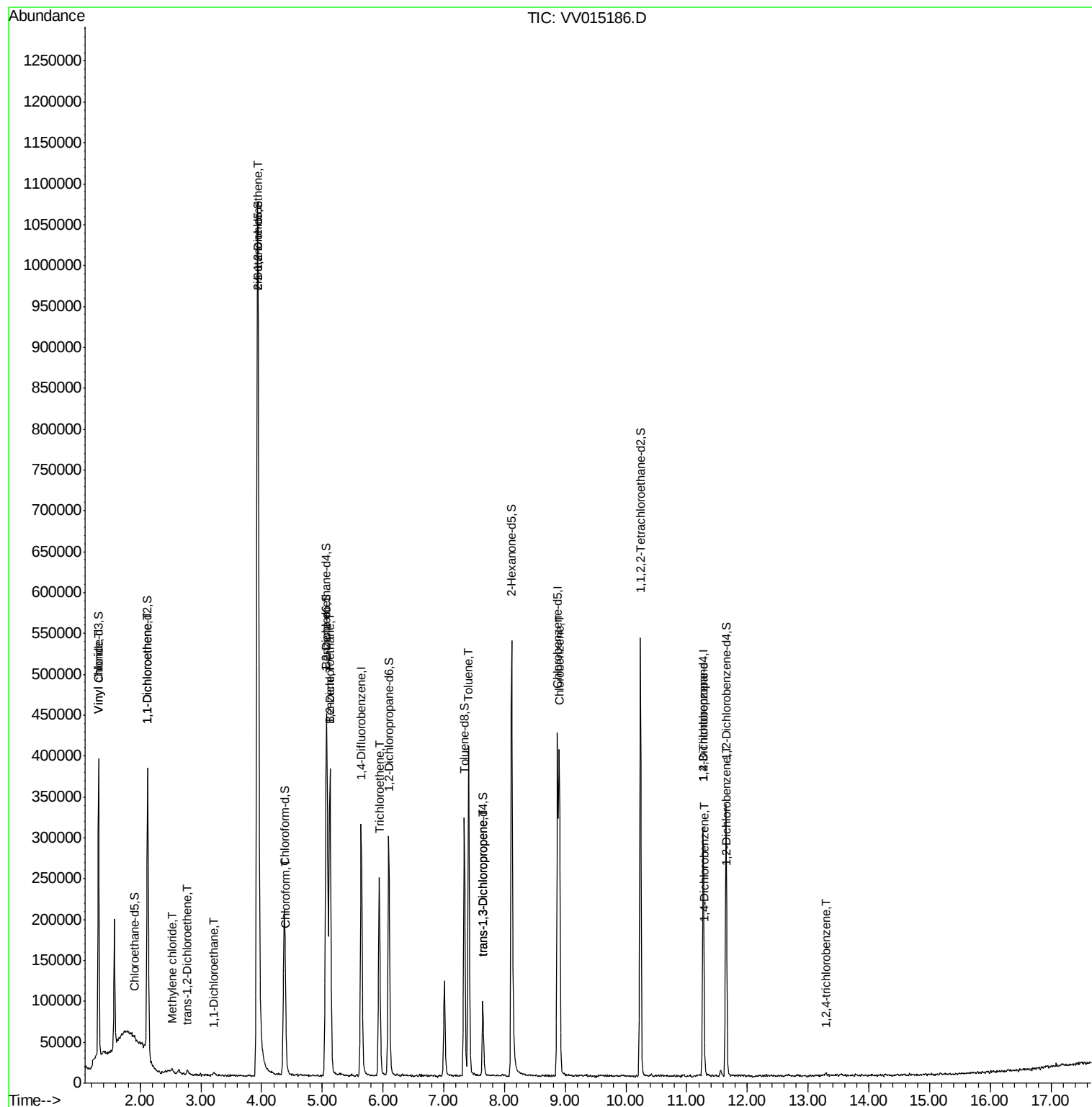
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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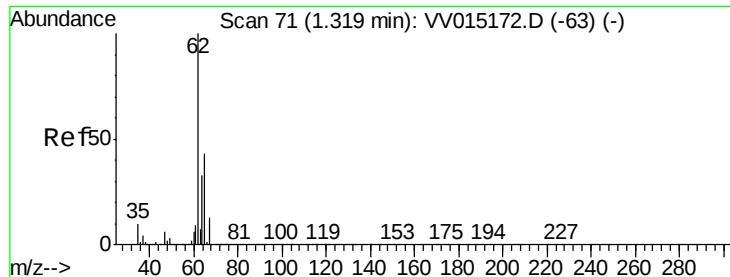
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Mar 27 03:08:32 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 58.347 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

Instrument :

MSVOA_V

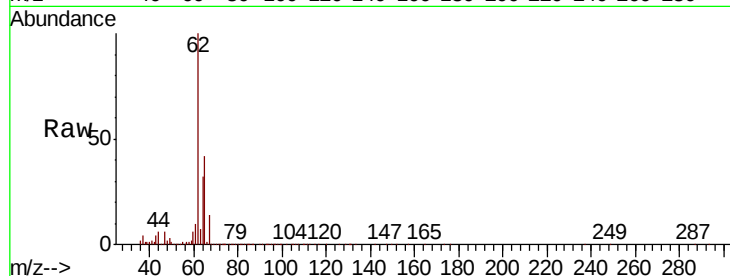
ClientSampleId :

Tot Ion: 62 Resp: 152589

Ion Ratio Lower Upper

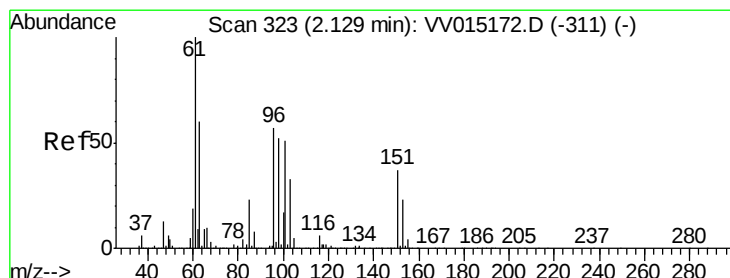
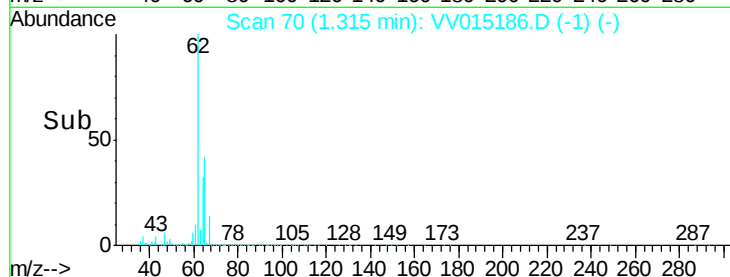
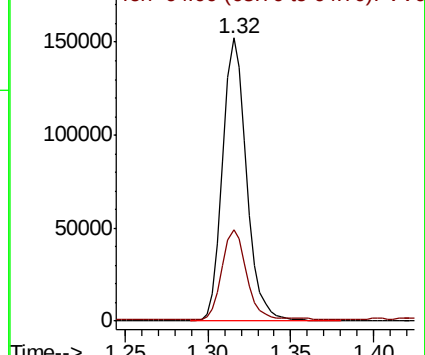
62 100

64 32.4 22.8 42.4



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#12

1,1-Dichloroethene

Concen: 31.983 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

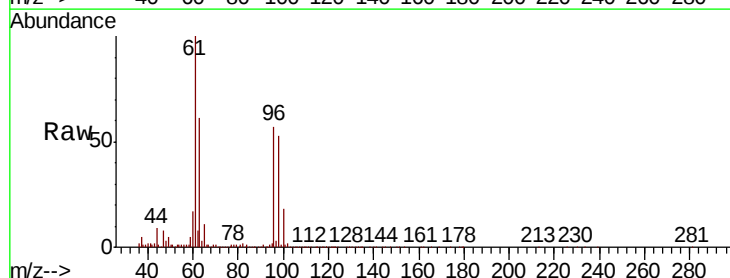
Tgt Ion: 96 Resp: 68727

Ion Ratio Lower Upper

96 100

61 175.0 122.3 227.1

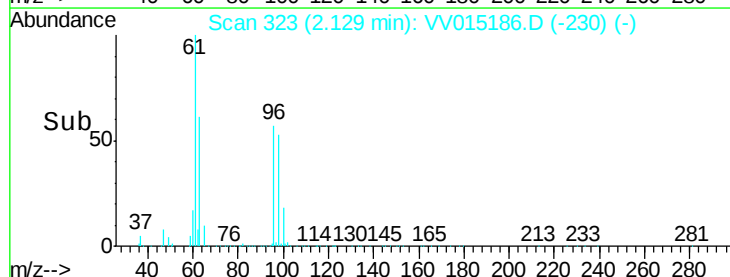
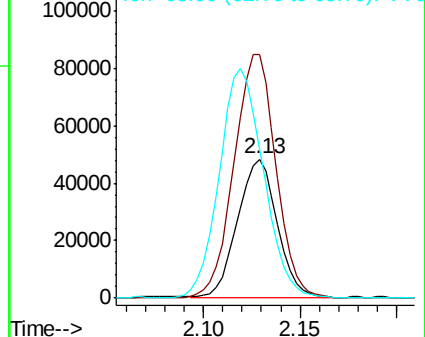
63 107.1 67.9 126.1

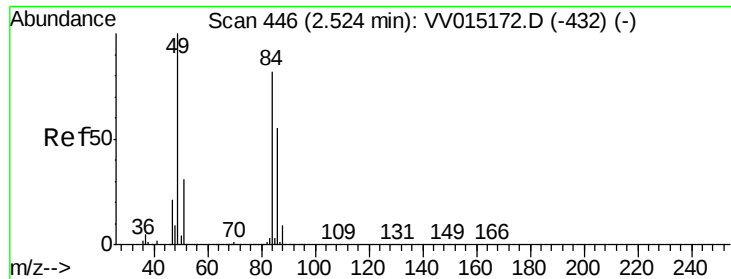


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

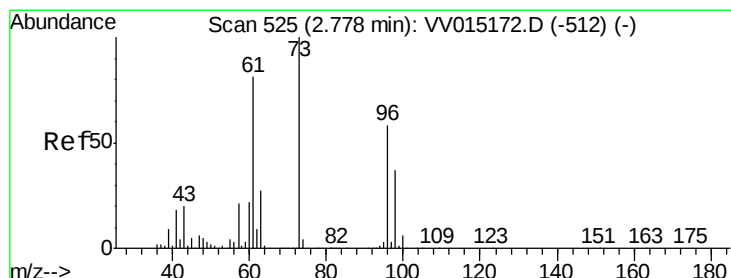
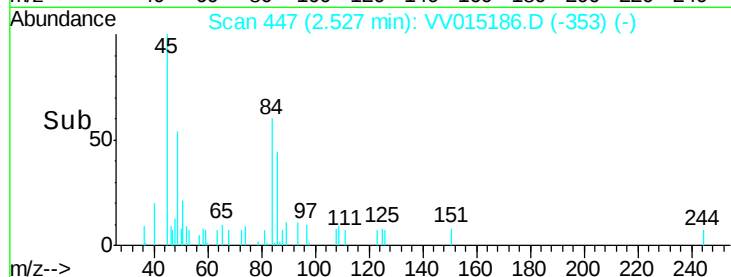
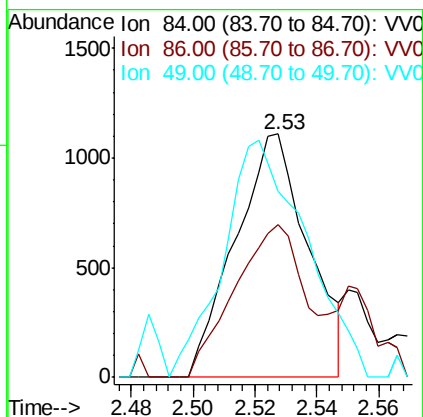
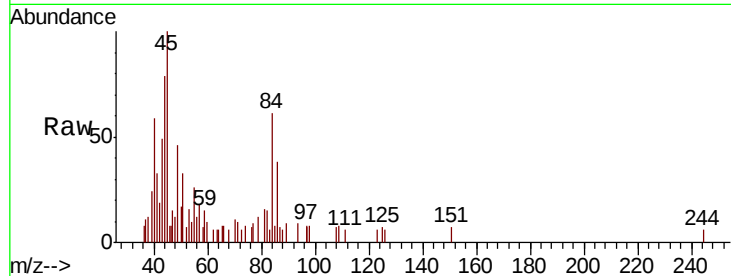




#16
Methvlene chloride
Concen: 0.903 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV015186.D
Acq: 26 Mar 2020 23:49

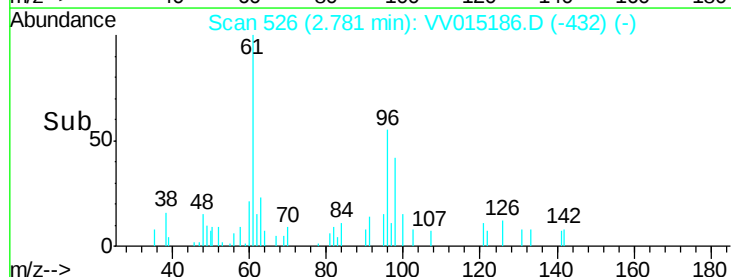
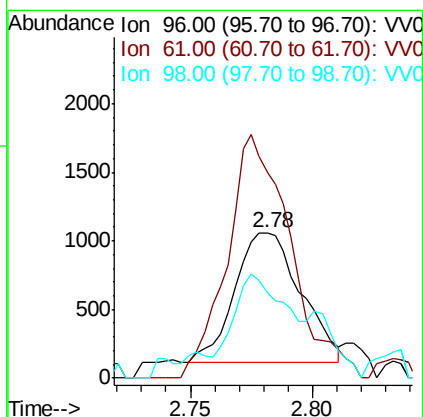
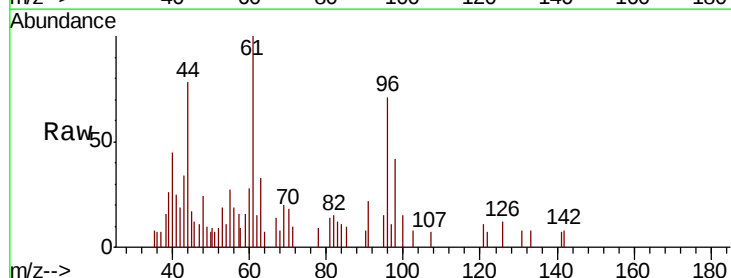
Instrument :
MSVOA_V
ClientSampled :

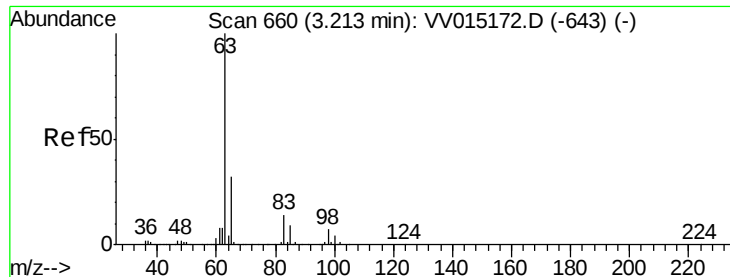
Tot Ion: 84 Resp: 1811
Ion Ratio Lower Upper
84 100
86 62.6 45.1 83.9
49 76.2 84.2 156.4#



#17
trans-1,2-Dichloroethene
Concen: 0.942 ug/L
RT: 2.78 min Scan# 526
Delta R.T. 0.00 min
Lab File: VV015186.D
Acq: 26 Mar 2020 23:49

Tgt Ion: 96 Resp: 1759
Ion Ratio Lower Upper
96 100
61 140.9 96.4 179.0
98 58.5 43.8 81.4





#19

1,1-Dichloroethane

Concen: 0.894 ug/L

RT: 3.21 min Scan# 660

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

Instrument :

MSVOA_V

ClientSampleId :

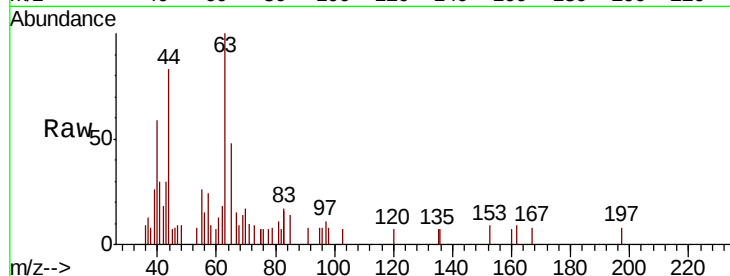
Tot Ion: 63 Resp: 3085

Ion Ratio Lower Upper

63 100

65 47.8 22.2 41.2#

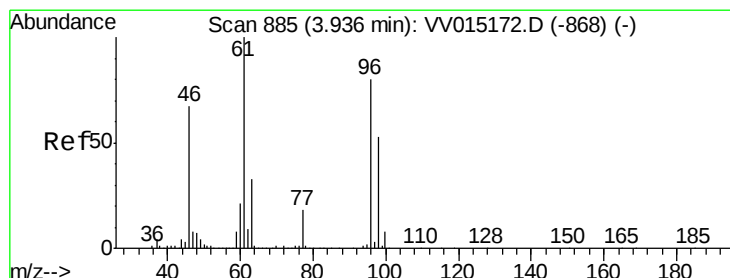
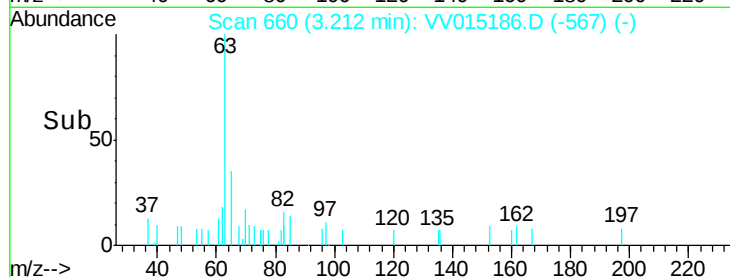
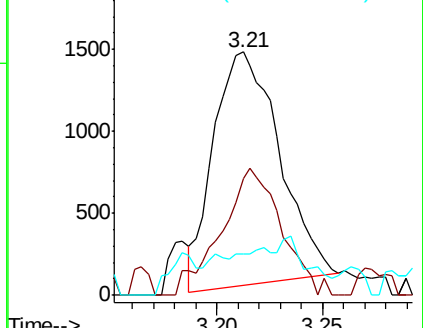
83 16.8 9.6 17.8



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0



#20

cis-1,2-Dichloroethene

Concen: 258.791 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

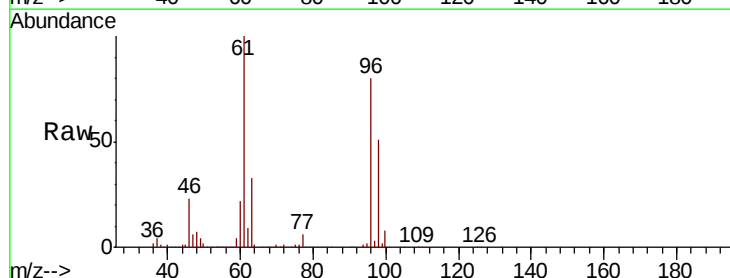
Tgt Ion: 96 Resp: 538359

Ion Ratio Lower Upper

96 100

61 125.1 90.2 167.4

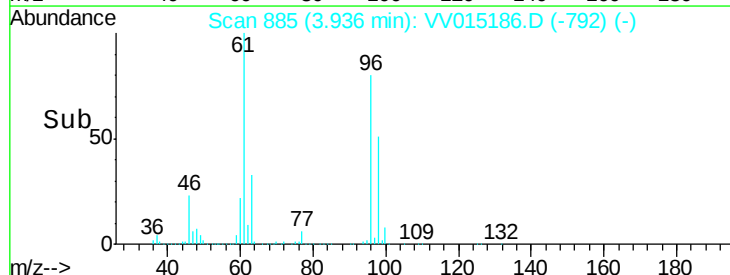
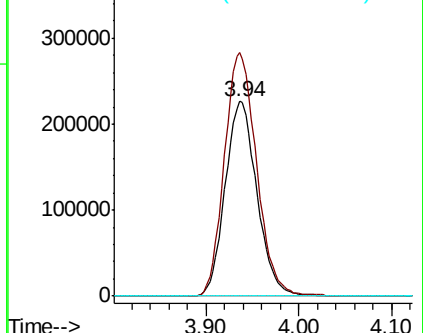
68 0.1 0.1 0.3#

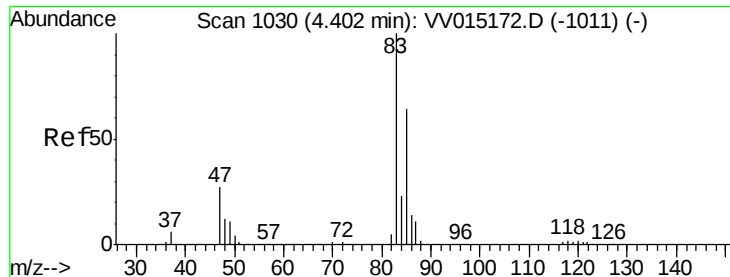


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 68.00 (67.70 to 68.70): VV0

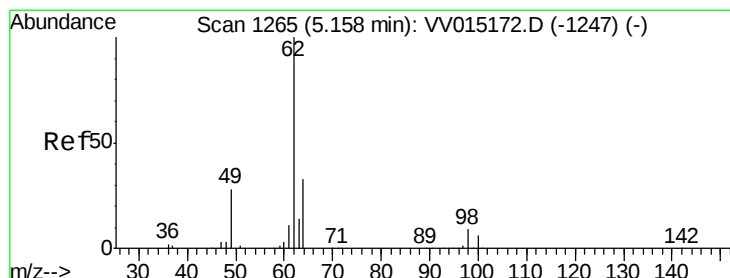
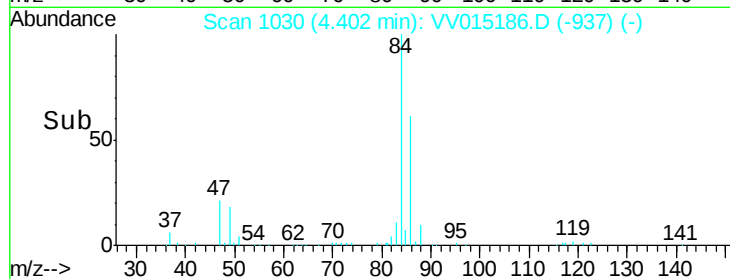
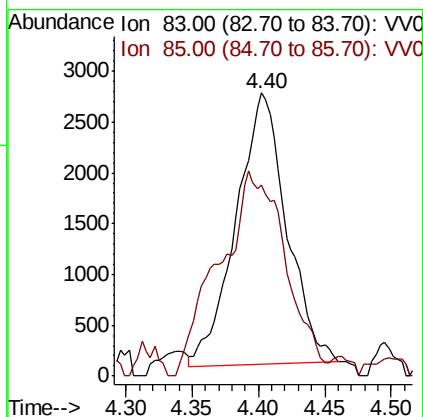
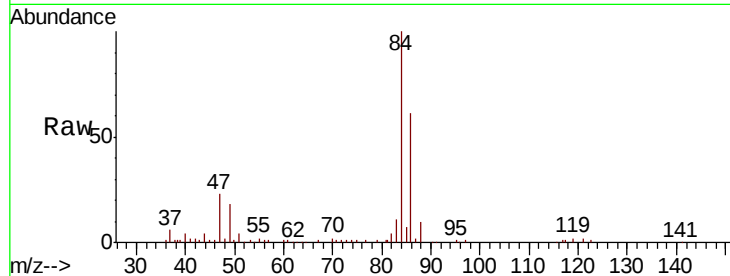




#25
Chloroform
Concen: 2.002 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV015186.D
Acq: 26 Mar 2020 23:49

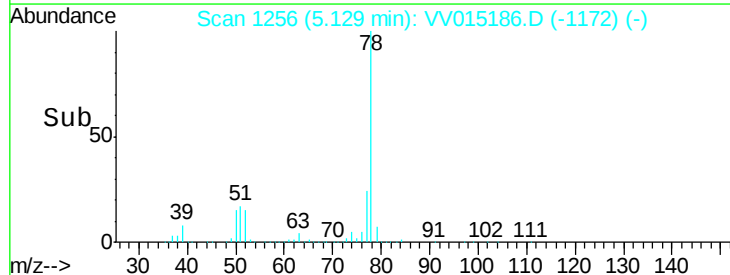
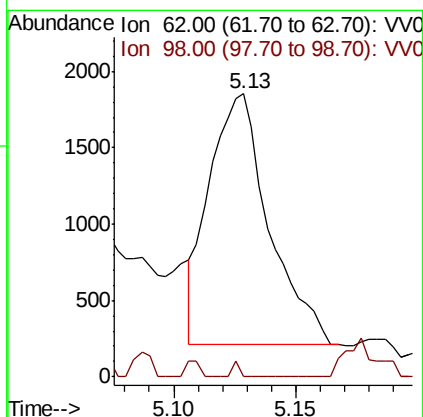
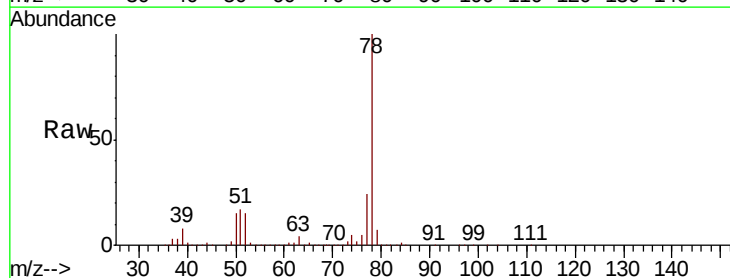
Instrument :
MSVOA_V
ClientSampleId :

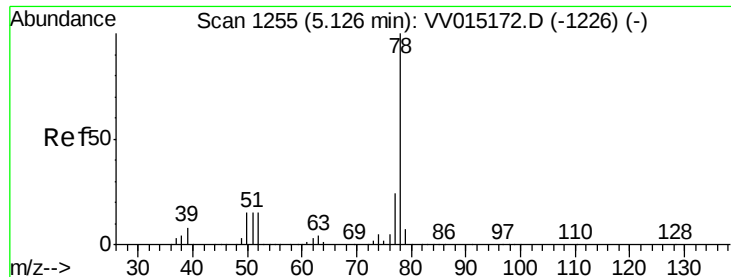
Tot Ion: 83 Resp: 7116
Ion Ratio Lower Upper
83 100
85 67.4 46.2 85.8



#27
1,2-Dichloroethane
Concen: 0.998 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. -0.03 min
Lab File: VV015186.D
Acq: 26 Mar 2020 23:49

Tgt Ion: 62 Resp: 2812
Ion Ratio Lower Upper
62 100
98 0.0 7.4 11.2#





#33

Benzene

Concen: 61.241 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. -0.00 min

Lab File: VV015186.D

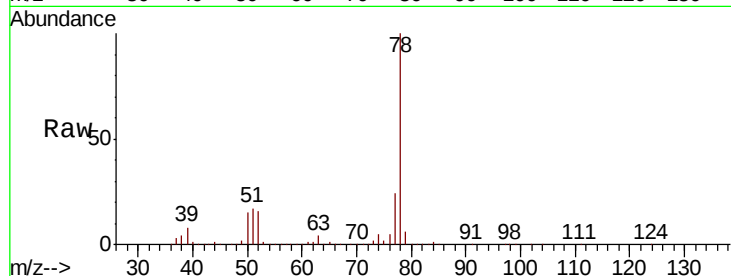
Acq: 26 Mar 2020 23:49

Instrument :

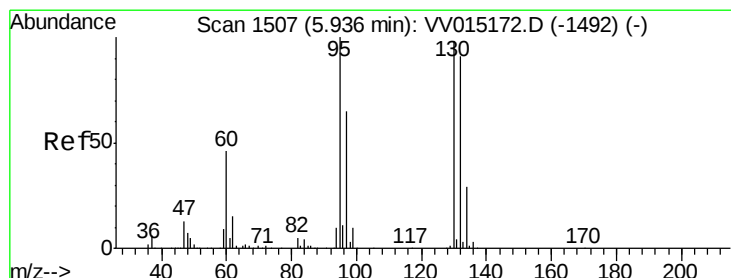
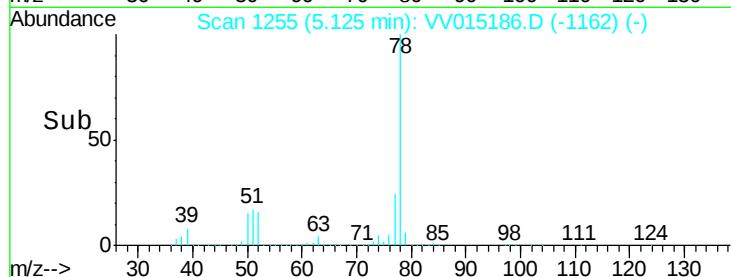
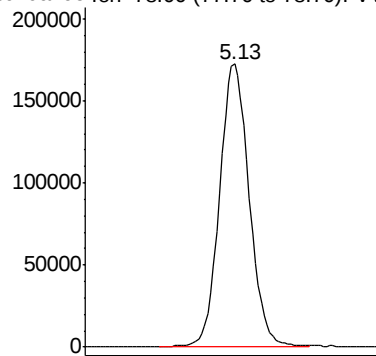
MSVOA_V

ClientSampleId :

Tgt Ion: 78 Resp: 381927



Abundance Ion 78.00 (77.70 to 78.70): VV0



#34

Trichloroethene

Concen: 53.749 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

Tgt Ion: 95 Resp: 87321

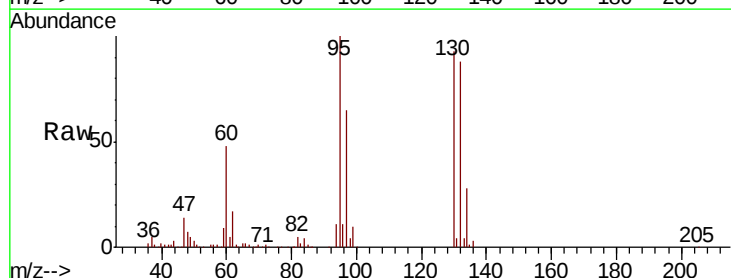
Ion	Ratio	Lower	Upper
95	100		
97	64.9	44.8	83.2
132	87.9	63.2	117.4
130	93.3	66.8	124.0

95 100

97 64.9 44.8 83.2

132 87.9 63.2 117.4

130 93.3 66.8 124.0

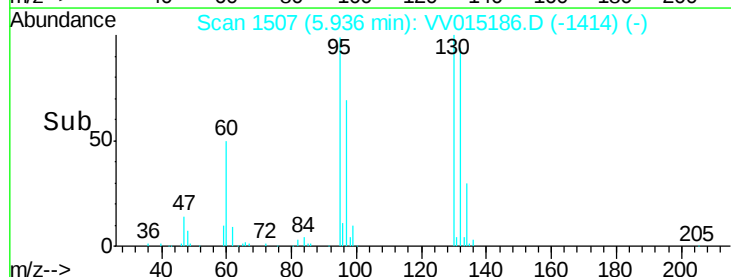
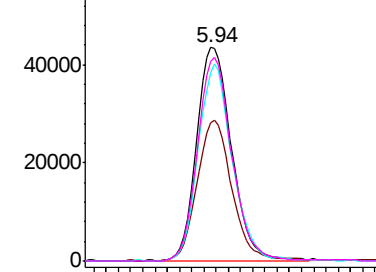


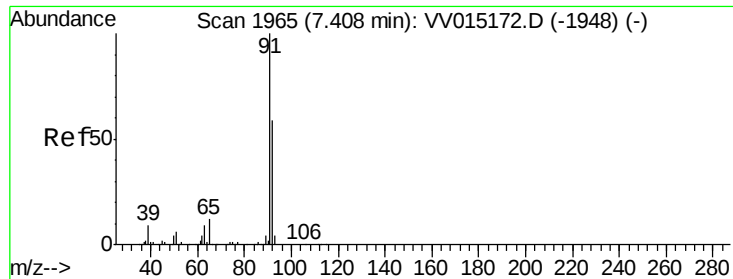
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 97.00 (96.70 to 97.70): VV0

Ion 132.00 (131.70 to 132.70): VV0

Ion 130.00 (129.70 to 130.70): VV0





#42

Toluene

Concen: 42.079 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

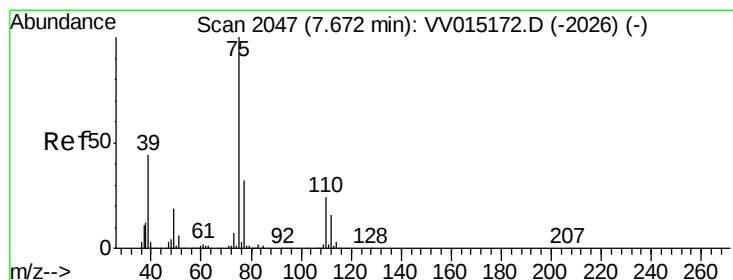
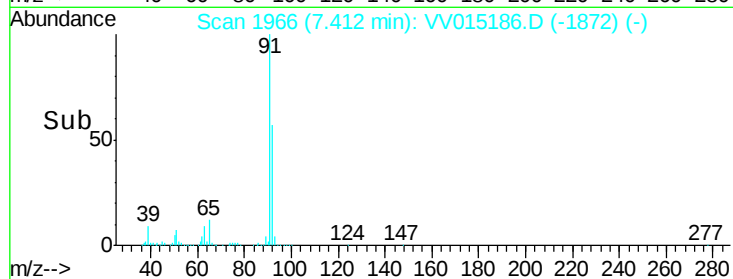
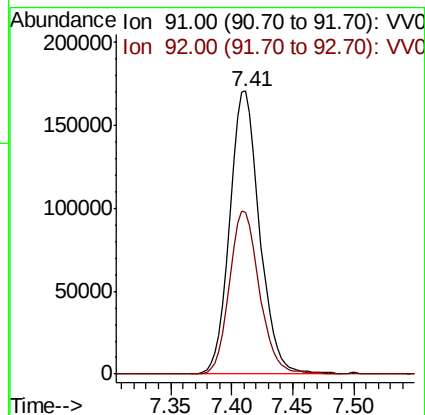
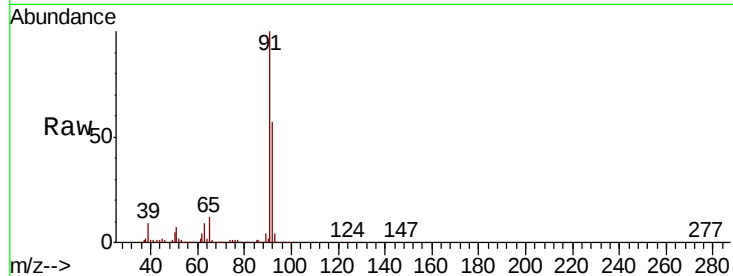
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 292773

Ion Ratio Lower Upper

91 100

92 57.1 41.4 77.0



#44

trans-1,3-Dichloropropene

Concen: 0.935 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV015186.D

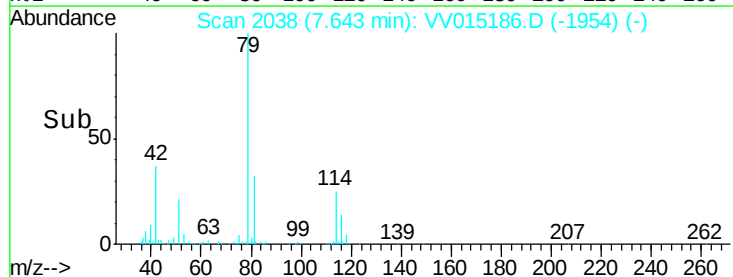
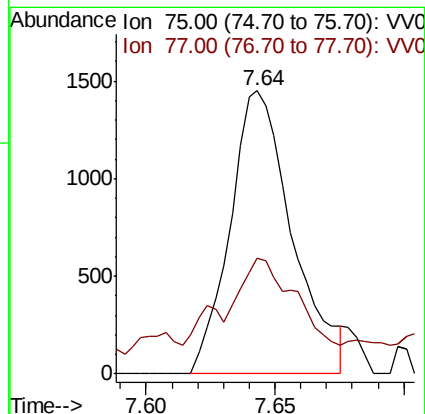
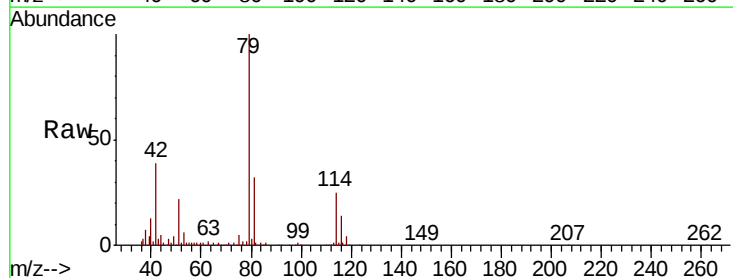
Acq: 26 Mar 2020 23:49

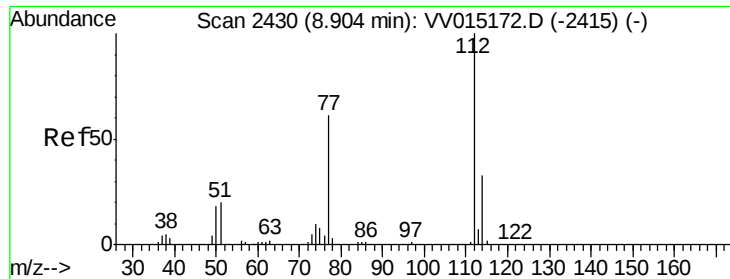
Tgt Ion: 75 Resp: 2433

Ion Ratio Lower Upper

75 100

77 41.0 22.3 41.3





#51

Chlorobenzene

Concen: 44.383 ug/L

RT: 8.90 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

Instrument :

MSVOA_V

ClientSampled :

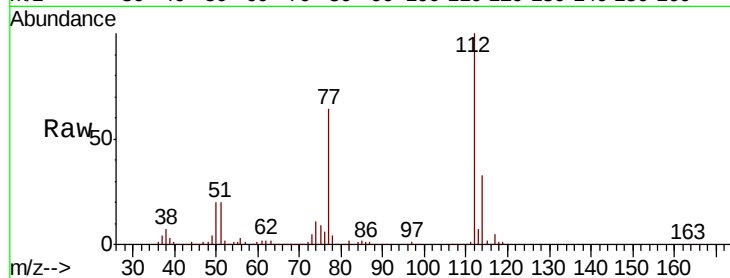
Tot Ion:112 Resp: 197243

Ion Ratio Lower Upper

112 100

114 32.8 22.1 41.1

77 63.7 47.3 70.9

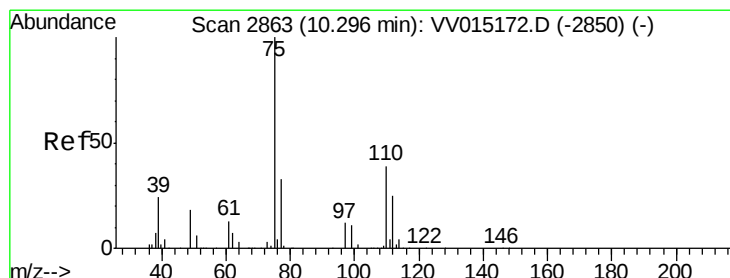
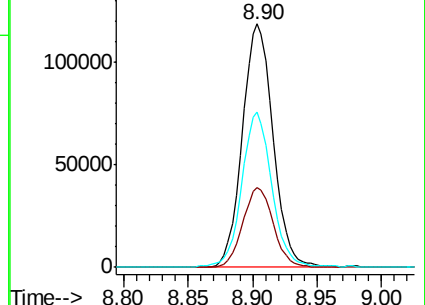
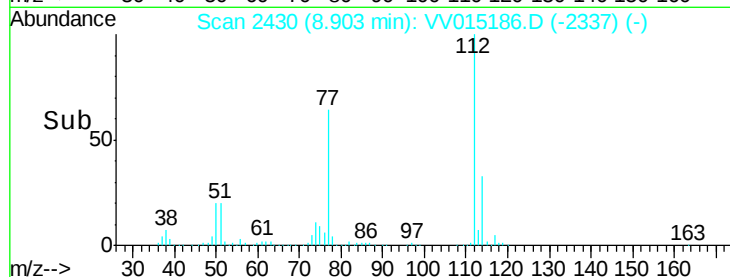


Abundance Ion 112.00 (111.70 to 112.70): VV015172.D (-2415) (-)

Ion 114.00 (113.70 to 114.70): VV015172.D (-2415) (-)

Ion 77.00 (76.70 to 77.70): VV015172.D (-2415) (-)

8.90



#59

1,2,3-Trichloropropane

Concen: 5.188 ug/L

RT: 11.27 min Scan# 3167

Delta R.T. 0.98 min

Lab File: VV015186.D

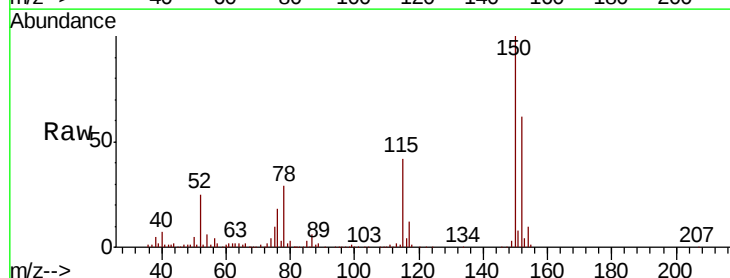
Acq: 26 Mar 2020 23:49

Tgt Ion: 75 Resp: 10990

Ion Ratio Lower Upper

75 100

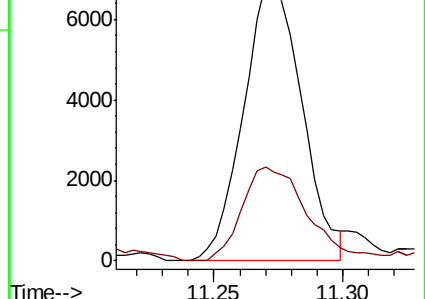
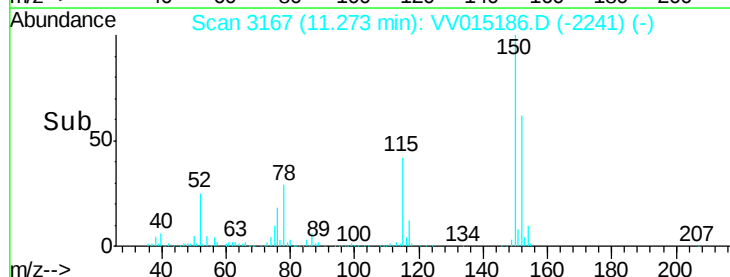
77 38.0 25.5 38.3

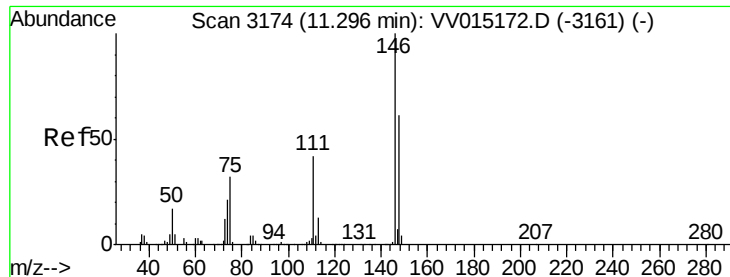


Abundance Ion 75.00 (74.70 to 75.70): VV015172.D (-2850) (-)

Ion 77.00 (76.70 to 77.70): VV015172.D (-2850) (-)

11.27





#63

1,4-Dichlorobenzene

Concen: 1.170 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. -0.00 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

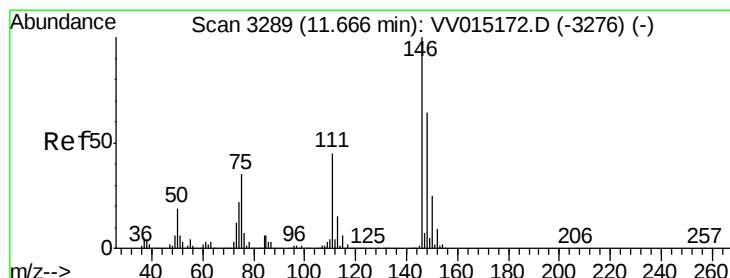
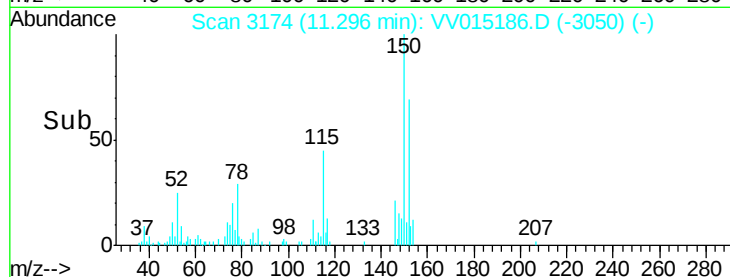
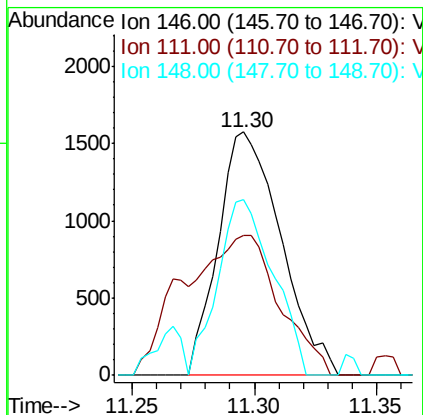
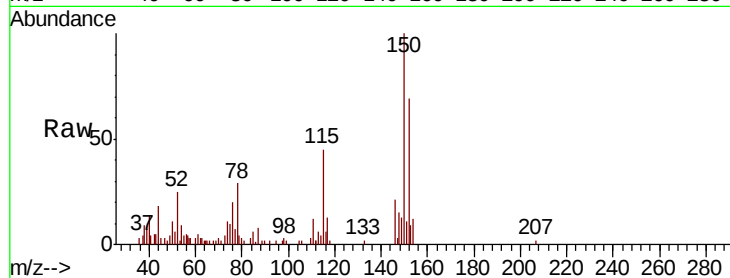
Instrument :

MSVOA_V

ClientSampled :

Tot Ion:146 Resp: 2817

Ion	Ratio	Lower	Upper
146	100		
111	67.7	29.2	54.2#
148	72.4	44.8	83.2



#65

1,2-Dichlorobenzene

Concen: 0.701 ug/L

RT: 11.67 min Scan# 3290

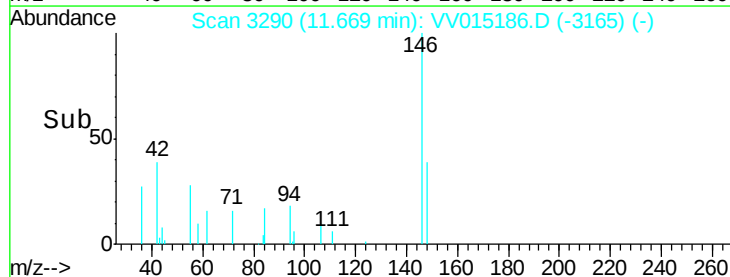
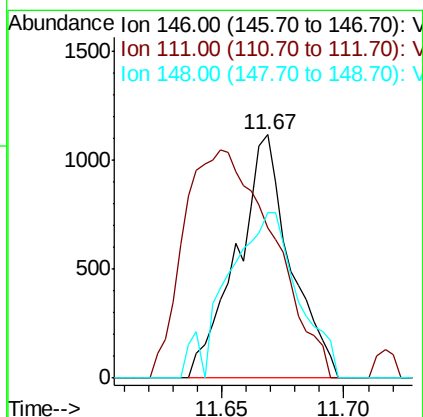
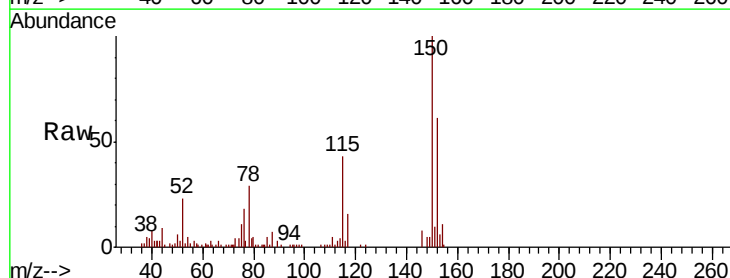
Delta R.T. 0.00 min

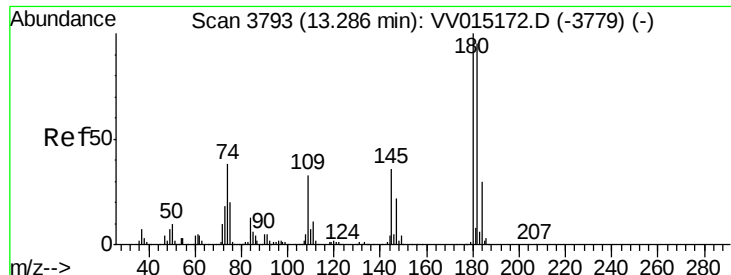
Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

Tgt Ion:146 Resp: 1695

Ion	Ratio	Lower	Upper
146	100		
111	72.0	35.4	53.2#
148	67.8	49.7	74.5





#68

1,2,4-trichlorobenzene

Concen: 0.778 ug/L

RT: 13.30 min Scan# 3797

Delta R.T. 0.01 min

Lab File: VV015186.D

Acq: 26 Mar 2020 23:49

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:180 Resp: 1132

Ion Ratio Lower Upper

180 100

182 70.1 75.2 112.8#

145 30.7 27.5 41.3

