

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013806.D
 Acq On : 26 Nov 2019 23:15
 Operator : SY/MD
 Sample : K6056-06
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Nov 27 03:14:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 27 03:09:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	343077	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	330793	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	151117	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	78462	3.69	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	73.80%
7) Chloroethane-d5	1.58	69	75465	4.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	83.60%
11) 1,1-Dichloroethene-d2	2.14	63	1017489	28.46	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	569.20%#
20) 2-Butanone-d5	3.95	46	252265	57.15	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	114.30%
24) Chloroform-d	4.40	84	172140	4.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.40%
26) 1,2-Dichloroethane-d4	5.08	65	99948	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.10	84	354424	4.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.00%
36) 1,2-Dichloropropane-d6	6.11	67	116733	4.59	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.80%
41) Toluene-d8	7.36	98	287659	3.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	71.80%
43) trans-1,3-Dichloropropene-	7.66	79	37778	3.82	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	76.40%
46) 2-Hexanone-d5	8.14	63	187603	51.38	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.76%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	91560	5.19	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	103.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	128203	4.81	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.20%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	6423	0.313	ug/L # 1
8) Chloroethane	1.32	64	5063	0.410	ug/L 89
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	11352	0.600	ug/L # 64
12) 1,1-Dichloroethene	2.14	96	1785407	108.241	ug/L # 64
16) Methylene chloride	2.53	84	7166	0.317	ug/L 95
18) trans-1,2-Dichloroethene	2.79	96	4116	0.221	ug/L 95
19) 1,1-Dichloroethane	3.23	63	1770590	47.616	ug/L 99
22) cis-1,2-Dichloroethene	3.96	96	206415	9.450	ug/L 100
25) Chloroform	4.42	83	31811	0.807	ug/L 98
27) 1,2-Dichloroethane	5.18	62	27342	1.212	ug/L 98
29) 1,1,1-Trichloroethane	4.66	97	66328	1.960	ug/L 100
31) Carbon tetrachloride	4.66	117	9397	0.316	ug/L 93
33) Benzene	5.15	78	14110	0.174	ug/L 100
34) Trichloroethene	5.96	95	3502043	156.453	ug/L 98
35) Methylcyclohexane	6.12	83	29063	0.973	ug/L # 19
37) 1,2-Dichloropropane	6.12	63	12863	0.617	ug/L # 90
44) trans-1,3-Dichloropropene	7.66	75	2011	0.087	ug/L 84

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Response via : Initial Calibration

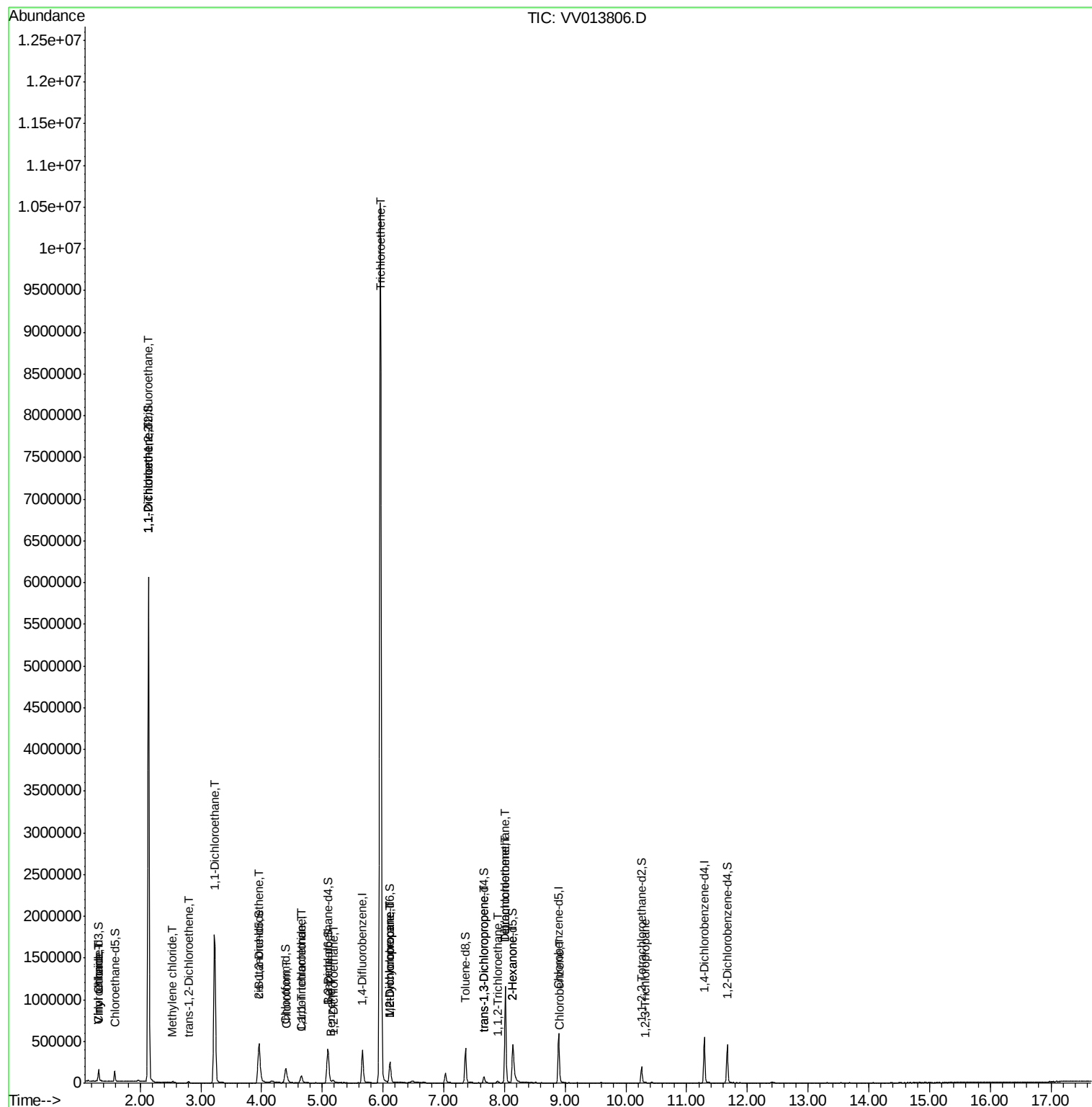
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 1,1,2-Trichloroethane	7.88	97	7398	0.498	ug/L	98
47) Tetrachloroethene	8.02	164	277348	14.269	ug/L	97
48) 2-Hexanone	8.14	43	33774	3.889	ug/L #	75
49) Dibromochloromethane	8.02	129	230288	12.081	ug/L #	10
51) Chlorobenzene	8.92	112	4826	0.080	ug/L	93
59) 1,2,3-Trichloropropane	10.32	75	2949	0.230	ug/L	99

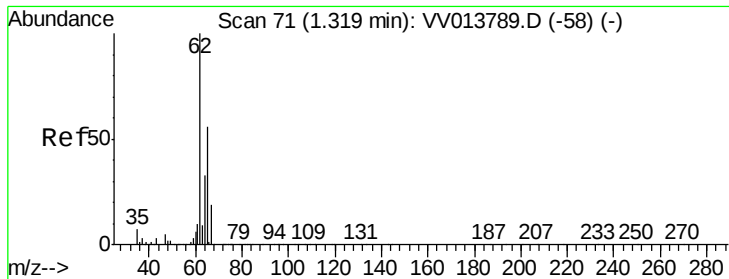
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 0.313 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :

MSVOA_V

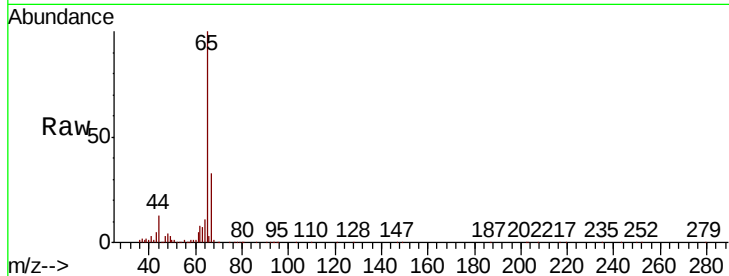
ClientSampleId :

Tot Ion: 62 Resp: 6423

Ion Ratio Lower Upper

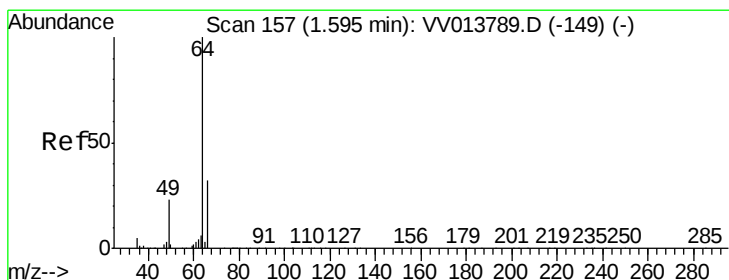
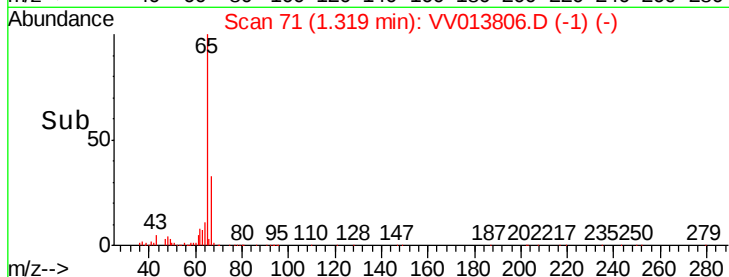
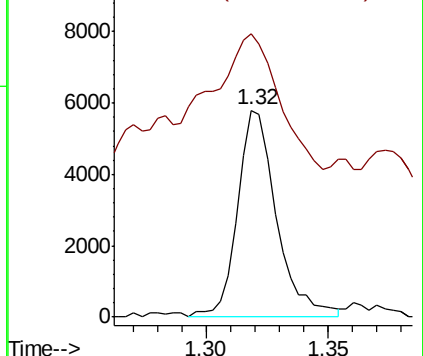
62 100

64 136.9 23.3 43.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 0.410 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV013806.D

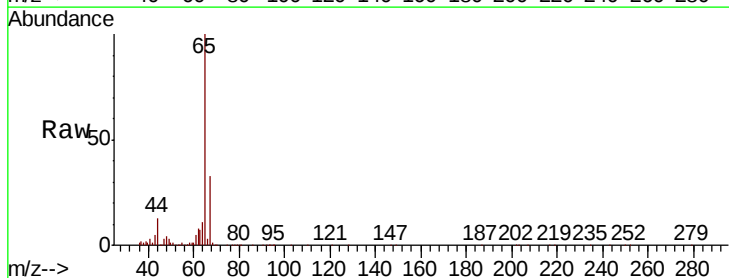
Acq: 26 Nov 2019 23:15

Tgt Ion: 64 Resp: 5063

Ion Ratio Lower Upper

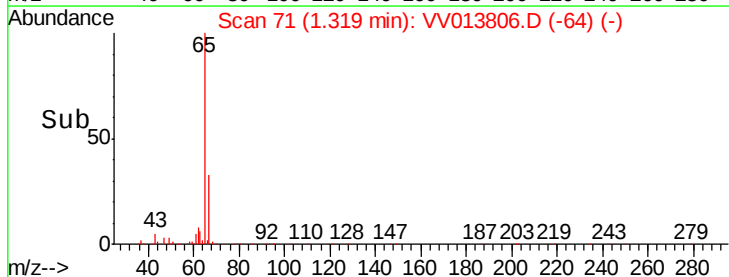
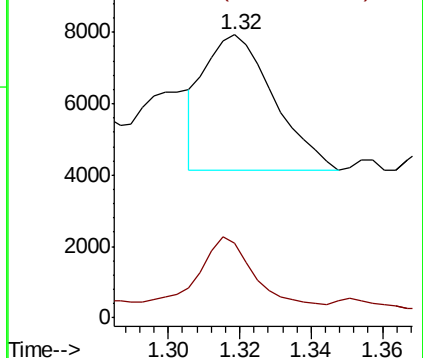
64 100

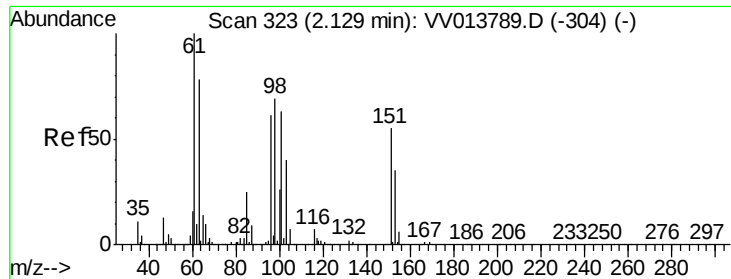
66 26.4 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.600 ug/L

RT: 2.14 min Scan# 325

Delta R.T. 0.01 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :

MSVOA_V

ClientSampleId :

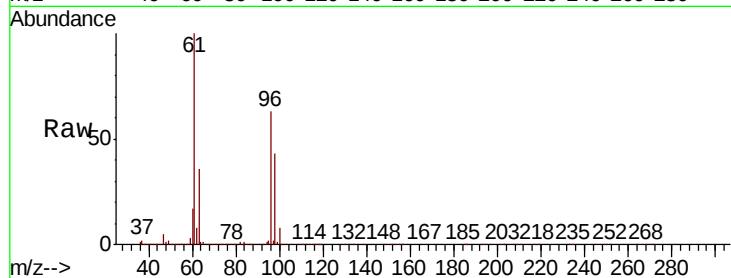
Tot Ion:101 Resp: 11352

Ion Ratio Lower Upper

101 100

85 33.1 33.4 50.0#

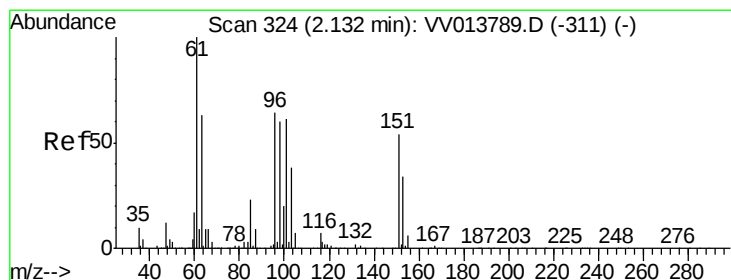
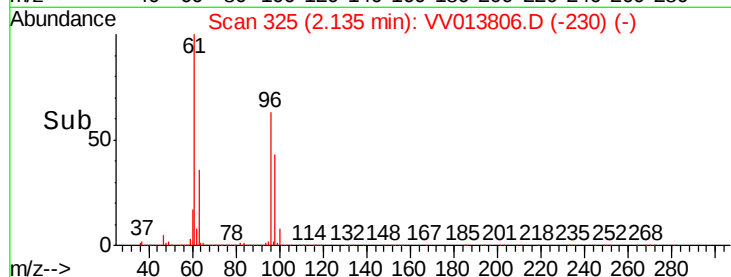
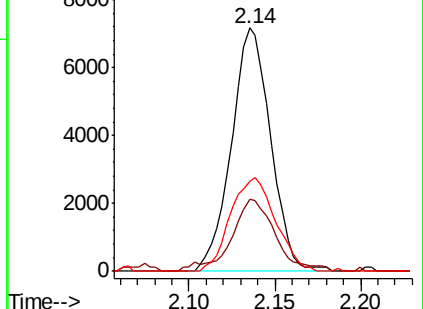
151 44.2 69.4 104.0#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 108.241 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

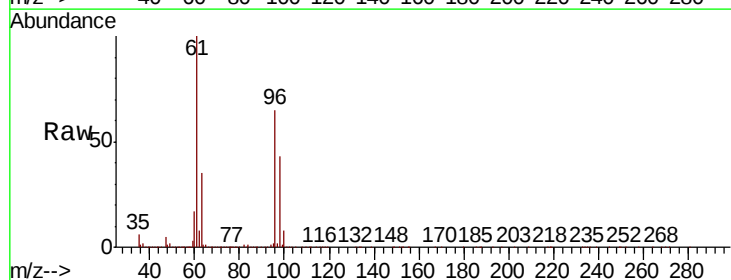
Tgt Ion: 96 Resp: 1785407

Ion Ratio Lower Upper

96 100

61 154.9 116.3 215.9

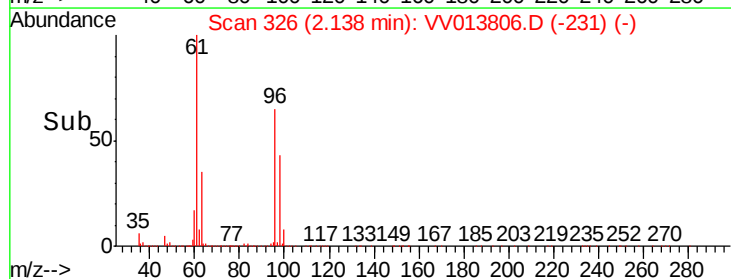
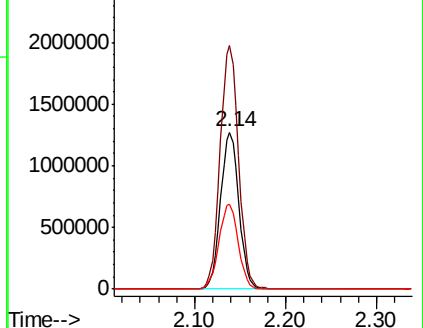
63 54.1 96.7 179.7#

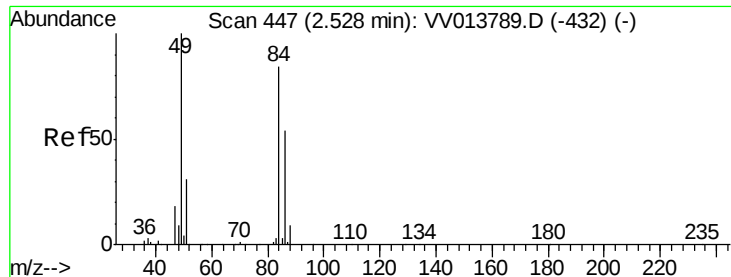


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

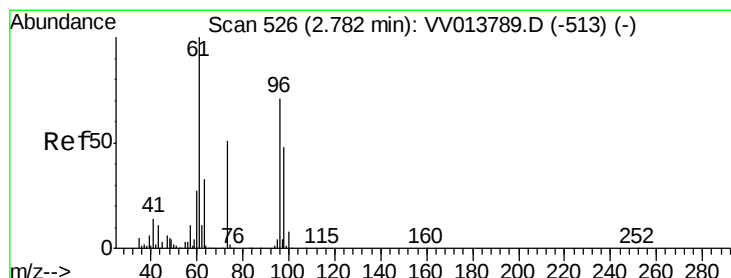
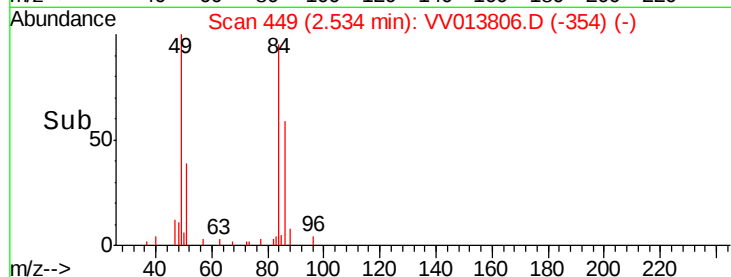
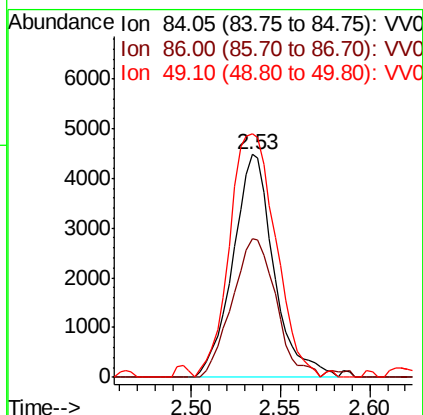
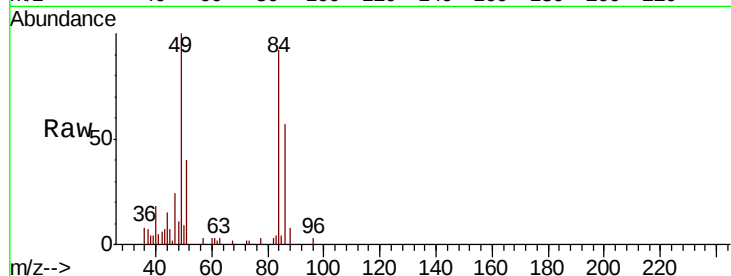




#16
Methylene chloride
Concen: 0.317 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.01 min
Lab File: VV013806.D
Acq: 26 Nov 2019 23:15

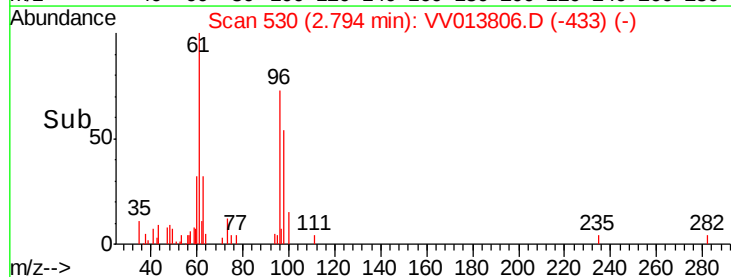
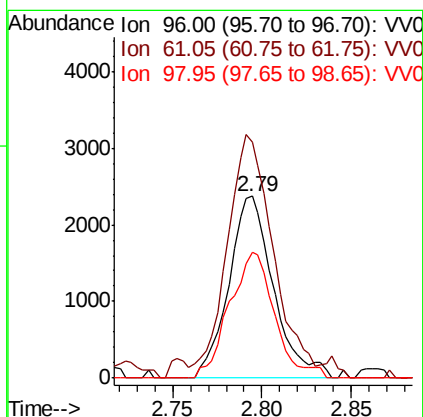
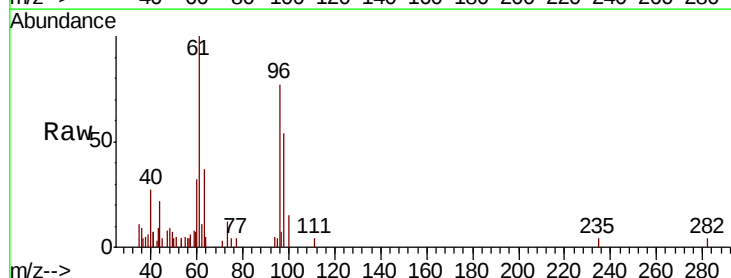
Instrument :
MSVOA_V
ClientSampleId :

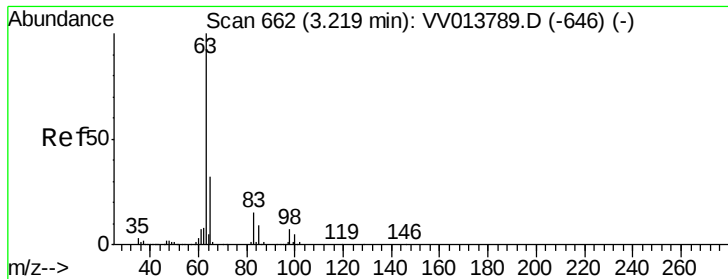
Tot Ion: 84 Resp: 7166
Ion Ratio Lower Upper
84 100
86 62.2 44.0 81.6
49 109.3 81.5 151.5



#18
trans-1,2-Dichloroethene
Concen: 0.221 ug/L
RT: 2.79 min Scan# 530
Delta R.T. 0.01 min
Lab File: VV013806.D
Acq: 26 Nov 2019 23:15

Tgt Ion: 96 Resp: 4116
Ion Ratio Lower Upper
96 100
61 129.4 95.1 176.7
98 69.4 46.5 86.3





#19

1,1-Dichloroethane

Concen: 47.616 ug/L

RT: 3.23 min Scan# 664

Delta R.T. 0.01 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :
MSVOA_V
ClientSampled :

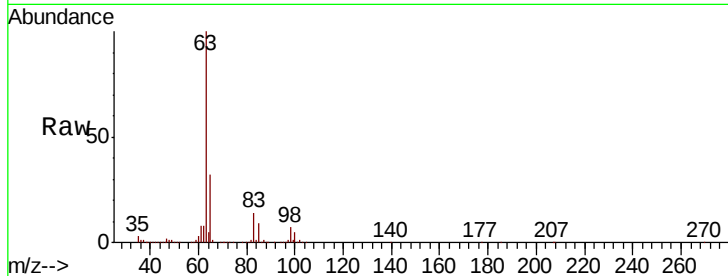
Tot Ion: 63 Resp: 1770590

Ion Ratio Lower Upper

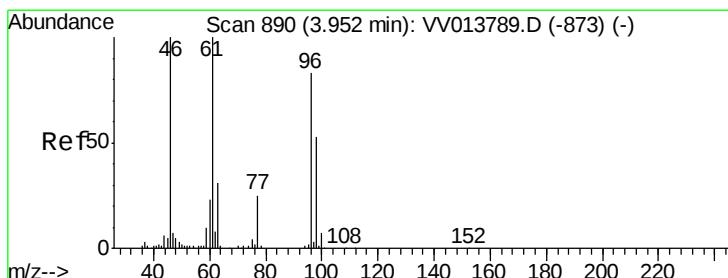
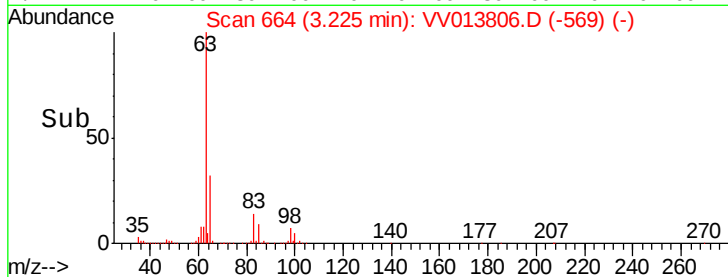
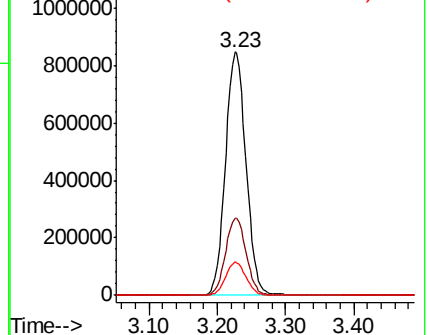
63 100

65 31.8 22.7 42.1

83 13.6 9.2 17.2



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 65.10 (64.80 to 65.80): VV0
Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 9.450 ug/L

RT: 3.96 min Scan# 892

Delta R.T. 0.01 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

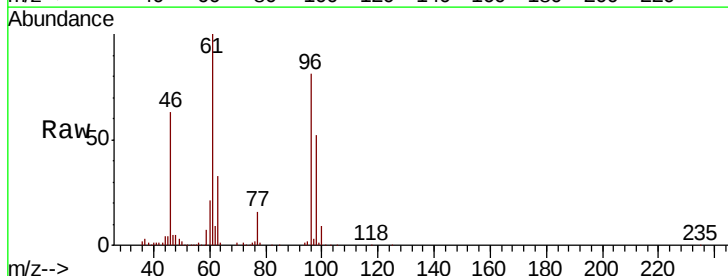
Tgt Ion: 96 Resp: 206415

Ion Ratio Lower Upper

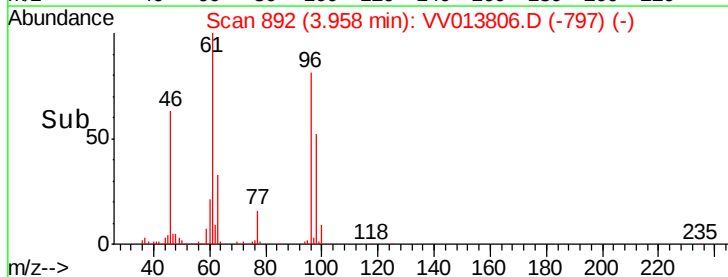
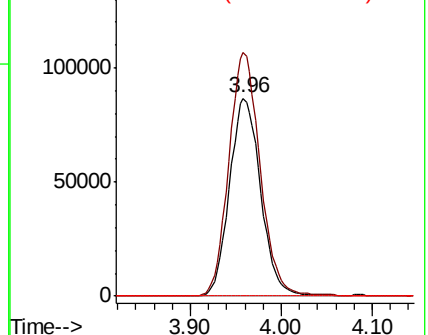
96 100

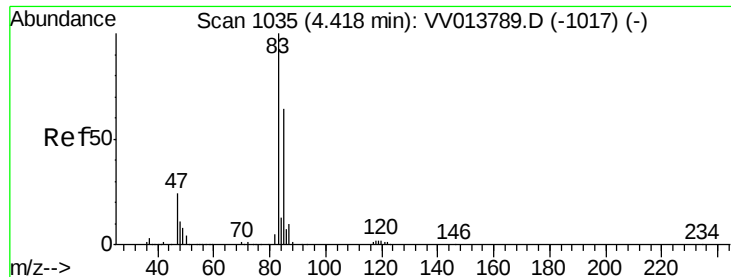
61 123.0 86.1 159.9

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0





#25

Chloroform

Concen: 0.807 ug/L

RT: 4.42 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :

MSVOA_V

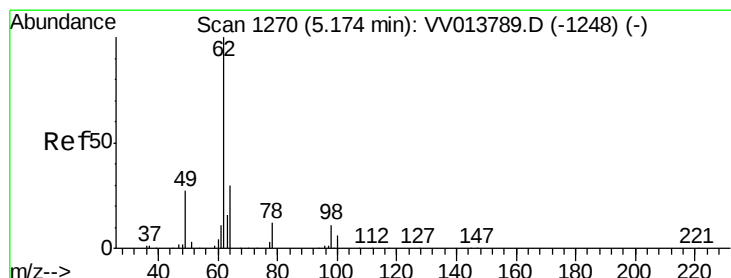
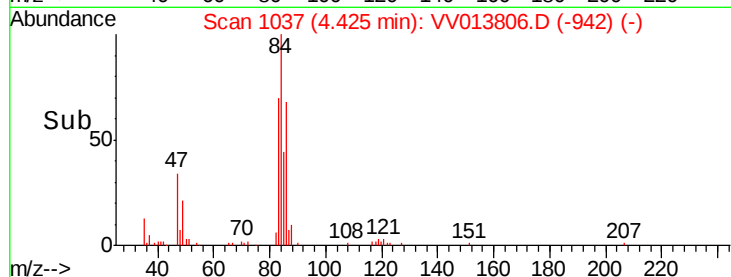
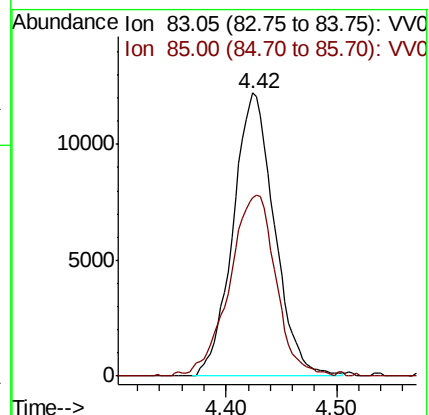
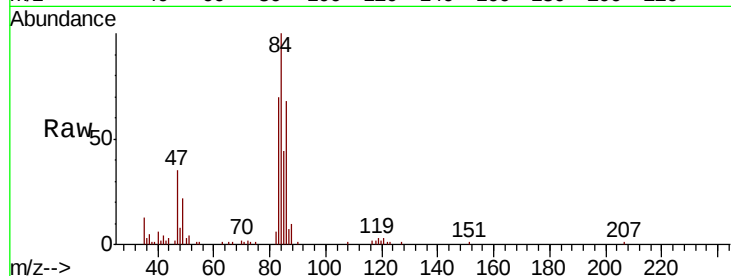
ClientSampled :

Tot Ion: 83 Resp: 31811

Ion Ratio Lower Upper

83 100

85 63.0 45.1 83.7



#27

1,2-Dichloroethane

Concen: 1.212 ug/L

RT: 5.18 min Scan# 1272

Delta R.T. 0.01 min

Lab File: VV013806.D

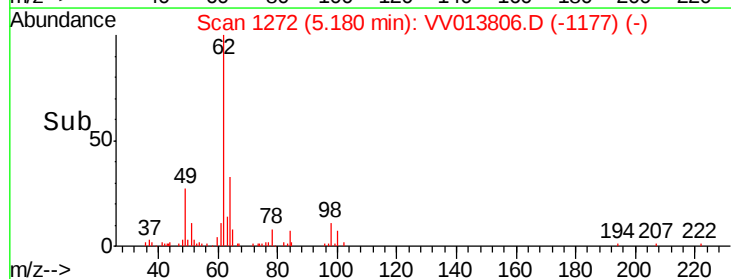
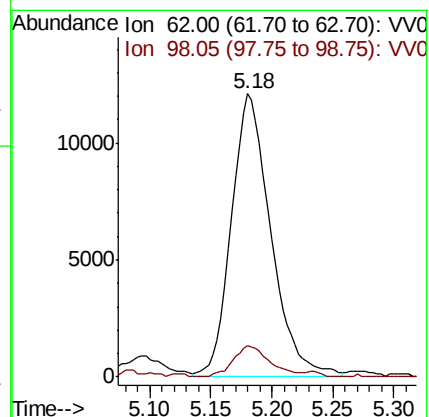
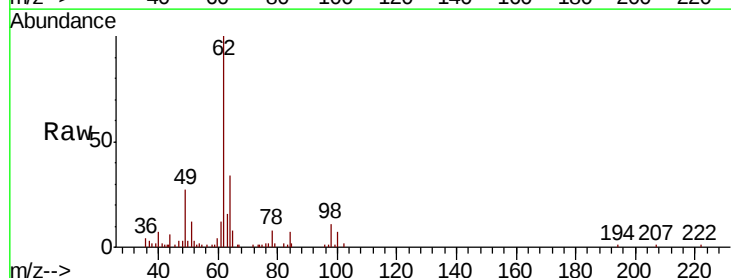
Acq: 26 Nov 2019 23:15

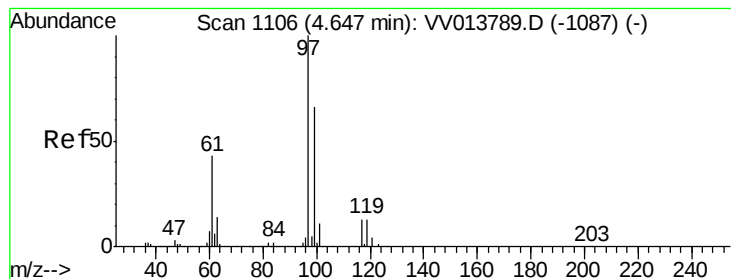
Tgt Ion: 62 Resp: 27342

Ion Ratio Lower Upper

62 100

98 11.1 8.2 12.2





#29

1,1,1-Trichloroethane

Concen: 1.960 ug/L

RT: 4.66 min Scan# 1110

Delta R.T. 0.01 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :

MSVOA_V

ClientSampleId :

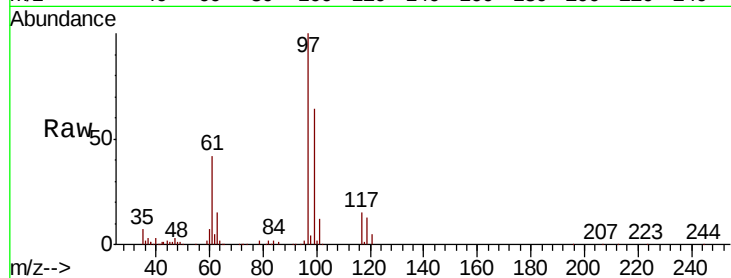
Tot Ion: 97 Resp: 66328

Ion Ratio Lower Upper

97 100

99 64.5 51.7 77.5

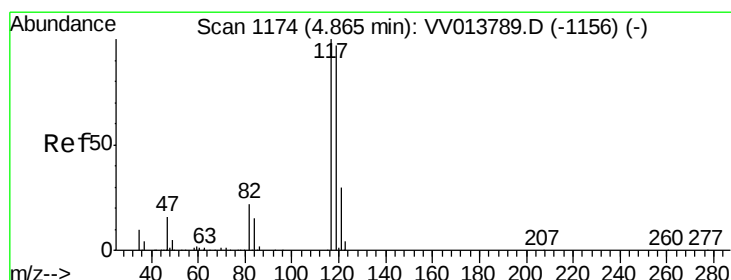
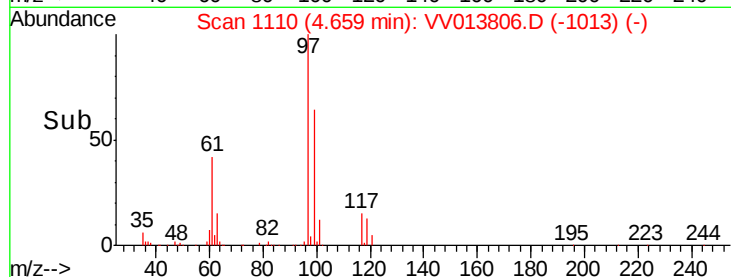
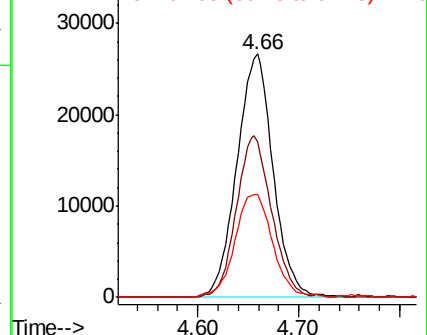
61 44.2 35.0 52.6



Abundance Ion 96.95 (96.65 to 97.65): VV013789.D (-1087) (-)

Ion 99.05 (98.75 to 99.75): VV013789.D (-1087) (-)

Ion 61.05 (60.75 to 61.75): VV013789.D (-1087) (-)



#31

Carbon tetrachloride

Concen: 0.316 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. -0.21 min

Lab File: VV013806.D

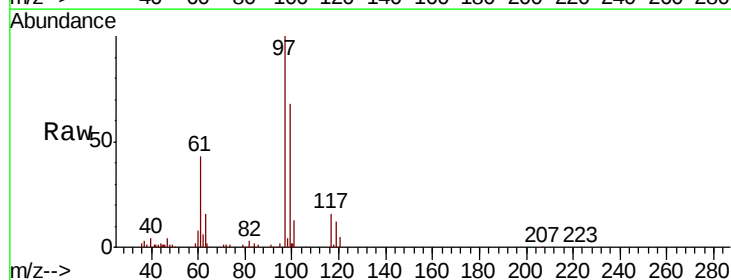
Acq: 26 Nov 2019 23:15

Tgt Ion: 117 Resp: 9397

Ion Ratio Lower Upper

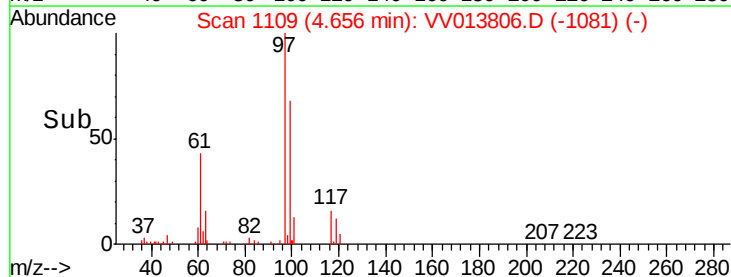
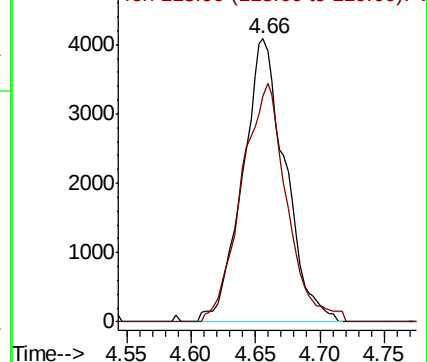
117 100

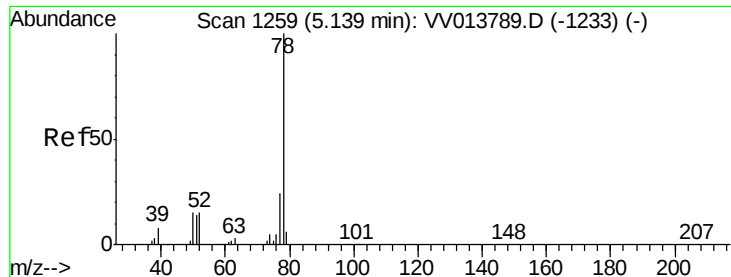
119 89.5 76.8 115.2



Abundance Ion 116.90 (116.60 to 117.60): VV013789.D (-1156) (-)

Ion 118.90 (118.60 to 119.60): VV013789.D (-1156) (-)

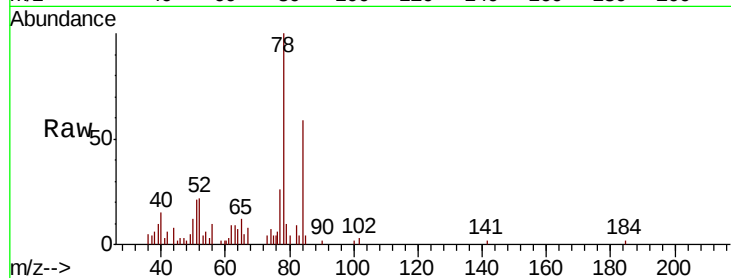




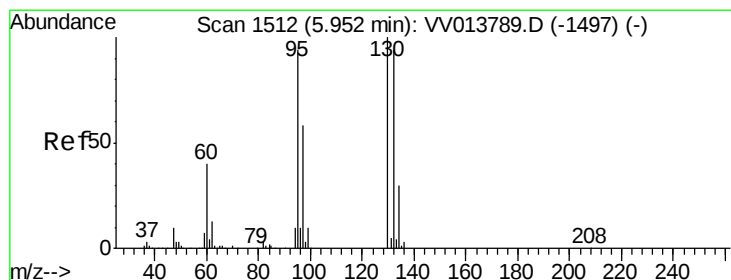
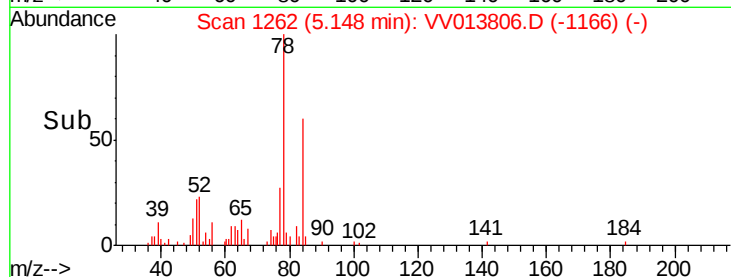
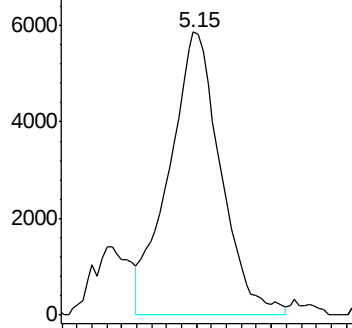
#33
Benzene
Concen: 0.174 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.01 min
Lab File: VV013806.D
Acq: 26 Nov 2019 23:15

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 14110



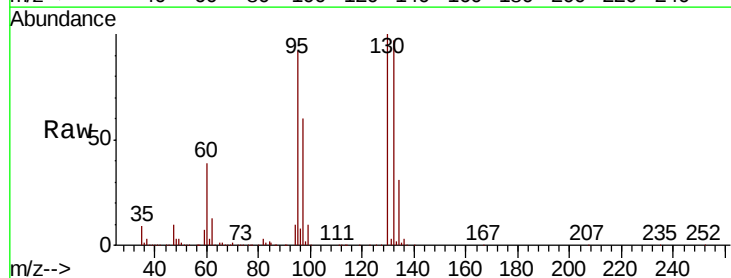
Abundance Ion 78.10 (77.80 to 78.80): VV0



#34
Trichloroethene
Concen: 156.453 ug/L
RT: 5.96 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VV013806.D
Acq: 26 Nov 2019 23:15

Tgt Ion: 95 Resp: 3502043

Ion	Ratio	Lower	Upper
95	100		
97	64.8	45.6	84.8
132	105.2	70.5	130.9
130	108.7	75.9	140.9

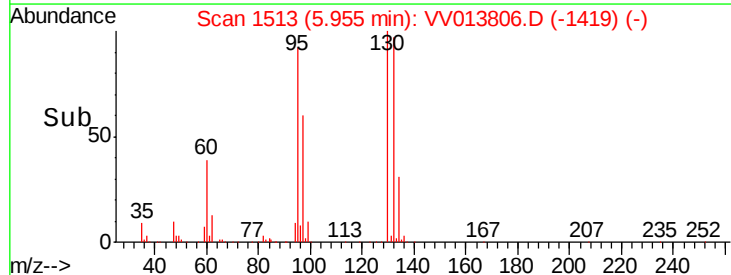
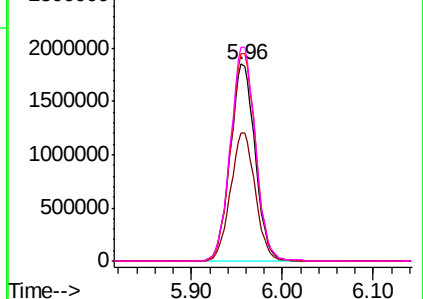


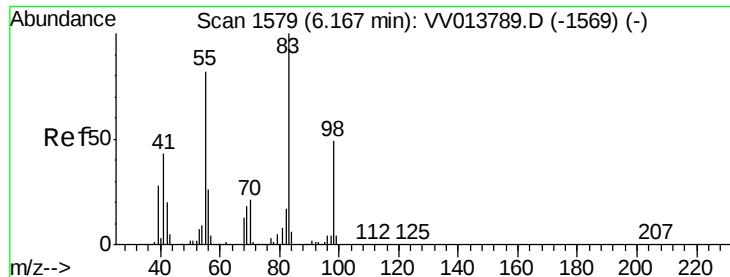
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

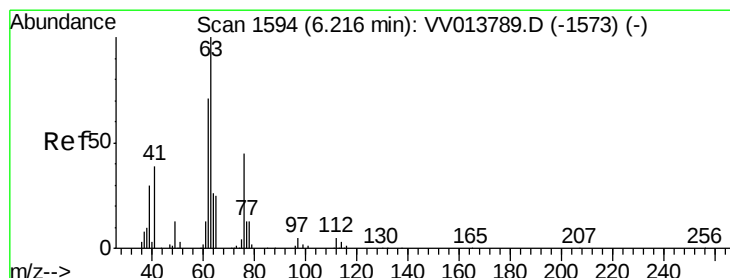
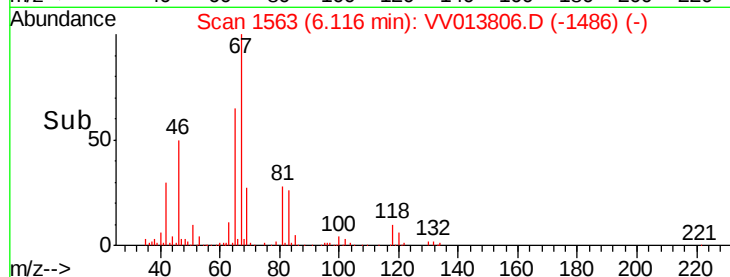
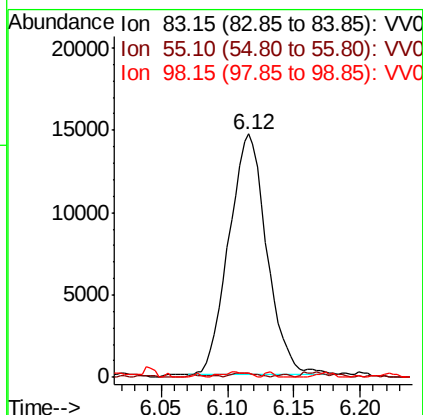
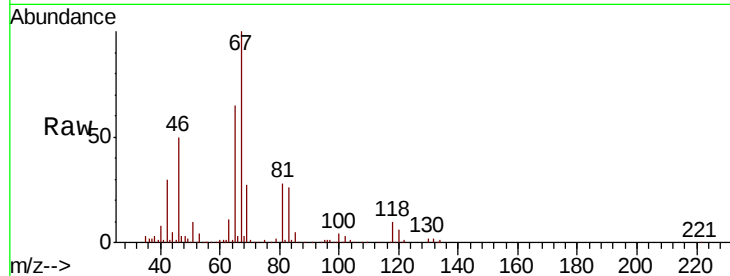




#35
Methvlcvclohexane
Concen: 0.973 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.05 min
Lab File: VV013806.D
Acq: 26 Nov 2019 23:15

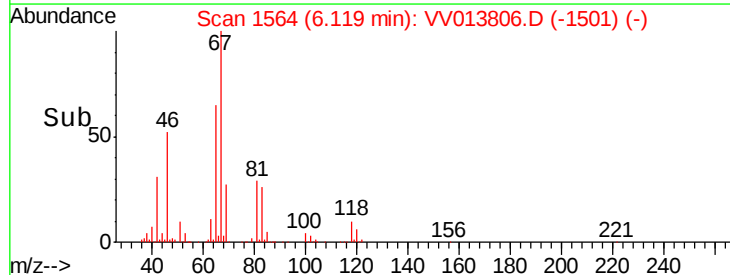
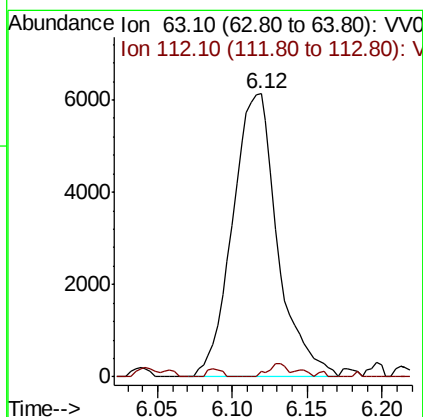
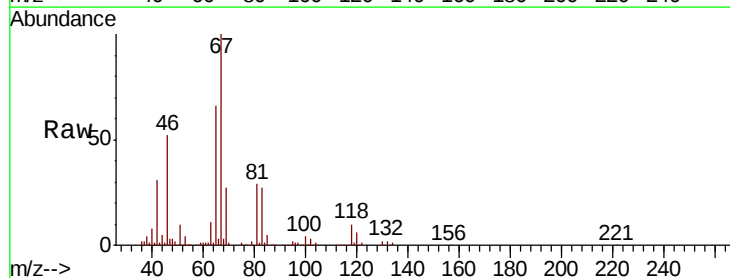
Instrument :
MSVOA_V
ClientSampleId :

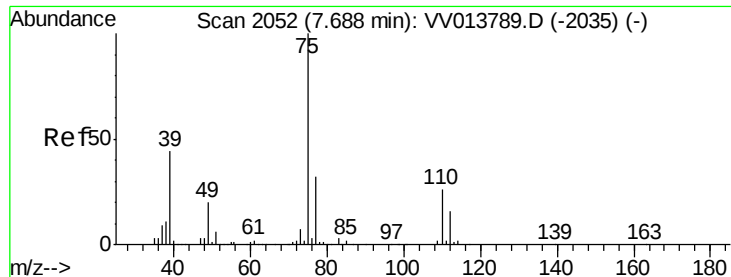
Tot Ion: 83 Resp: 29063
Ion Ratio Lower Upper
83 100
55 1.2 60.3 90.5#
98 0.0 38.1 57.1#



#37
1,2-Dichloropropane
Concen: 0.617 ug/L
RT: 6.12 min Scan# 1564
Delta R.T. -0.10 min
Lab File: VV013806.D
Acq: 26 Nov 2019 23:15

Tgt Ion: 63 Resp: 12863
Ion Ratio Lower Upper
63 100
112 2.1 4.4 6.6#





#44

trans-1,3-Dichloropropene

Concen: 0.087 ug/L

RT: 7.66 min Scan# 2043

Delta R.T. -0.03 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

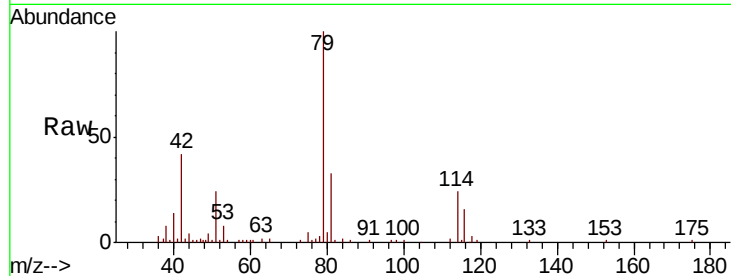
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 2011

Ion Ratio Lower Upper

75 100

77 41.9 23.0 42.8



Abundance Ion 75.05 (74.75 to 75.75): VV013789.D (-2035) (-)

Ion 77.05 (76.75 to 77.75): VV013806.D (-1959) (-)

7.66

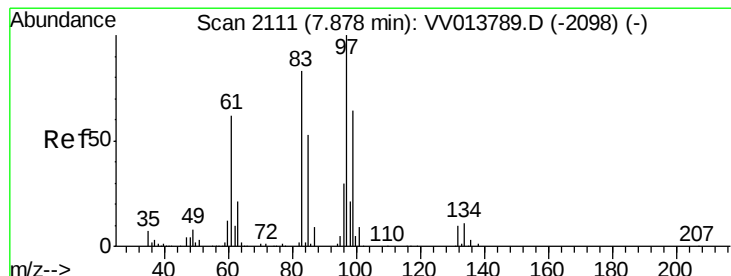
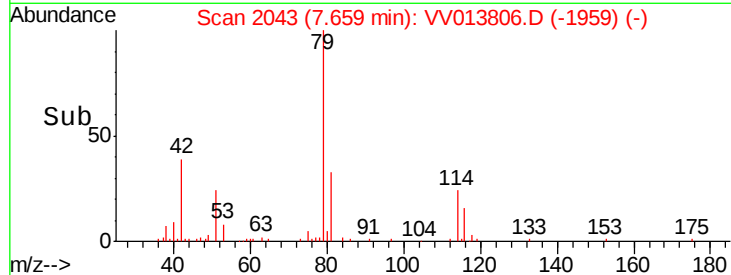
1000

500

0

7.60 7.65 7.70

Time-->



#45

1,1,2-Trichloroethane

Concen: 0.498 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Tgt Ion: 97 Resp: 7398

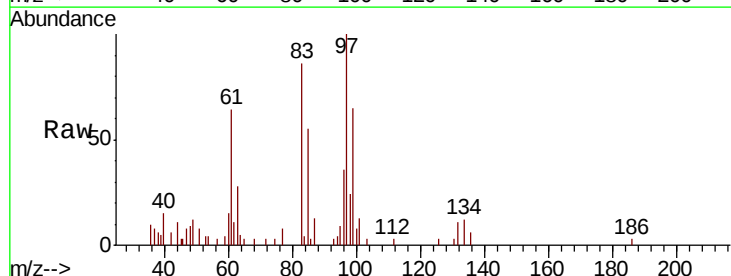
Ion Ratio Lower Upper

97 100

99 65.3 44.2 82.0

83 86.1 59.7 110.9

85 55.4 38.3 71.1



Abundance Ion 96.95 (96.65 to 97.65): VV013789.D (-2098) (-)

Ion 99.05 (98.75 to 99.75): VV013806.D (-2018) (-)

Ion 82.95 (82.65 to 83.65): VV013789.D (-2098) (-)

Ion 85.00 (84.70 to 85.70): VV013806.D (-2018) (-)

7.88

6000

5000

4000

3000

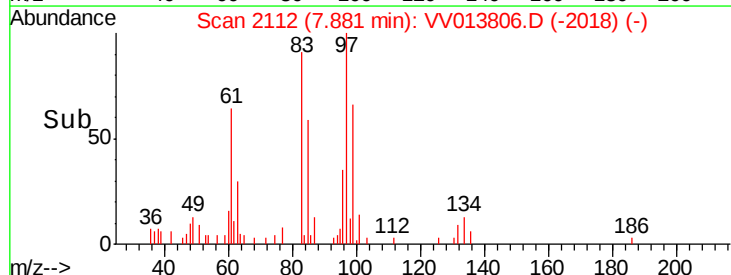
2000

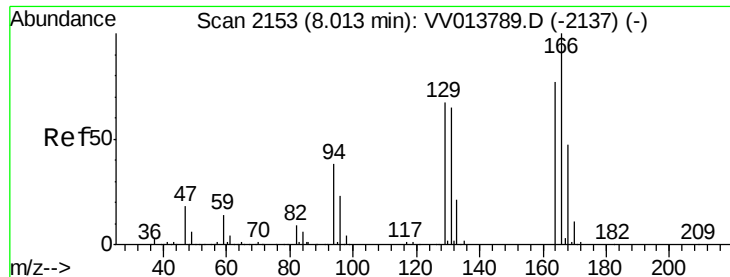
1000

0

7.80 7.85 7.90 7.95

Time-->





#47

Tetrachloroethene

Concen: 14.269 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 277348

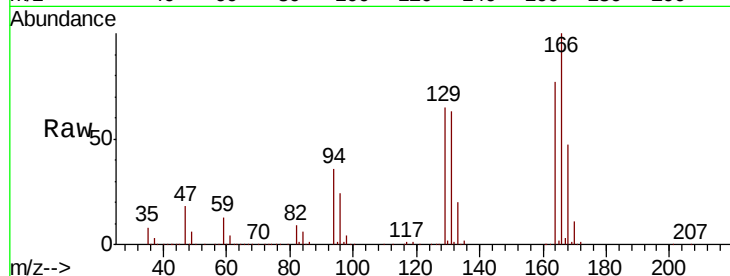
Ion Ratio Lower Upper

164 100

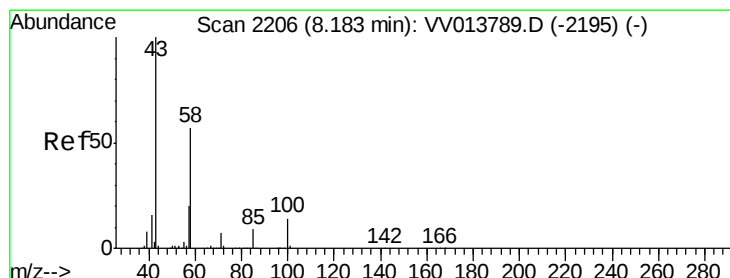
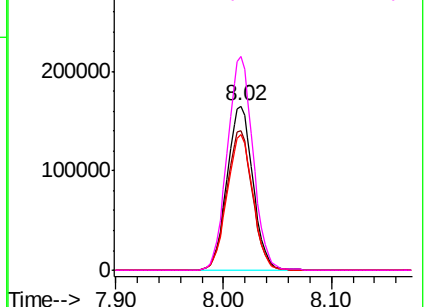
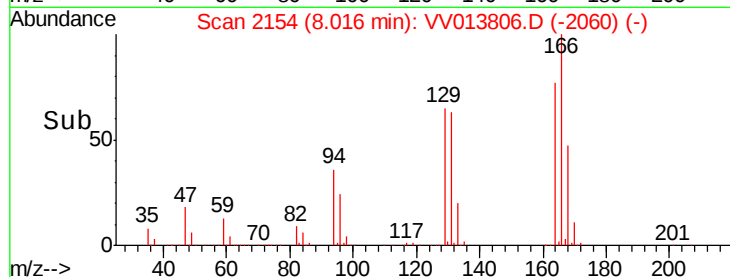
129 84.6 60.3 112.1

131 82.2 59.9 111.3

166 130.0 89.1 165.5



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V



#48

2-Hexanone

Concen: 3.889 ug/L

RT: 8.14 min Scan# 2192

Delta R.T. -0.05 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Tgt Ion: 43 Resp: 33774

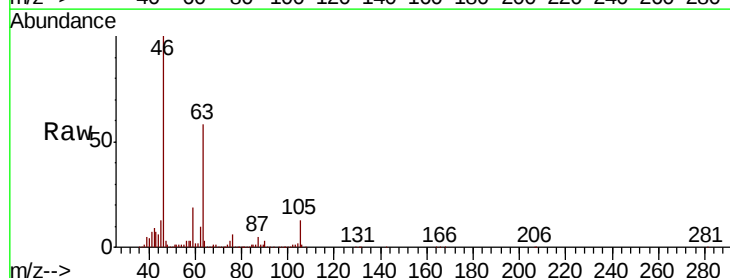
Ion Ratio Lower Upper

43 100

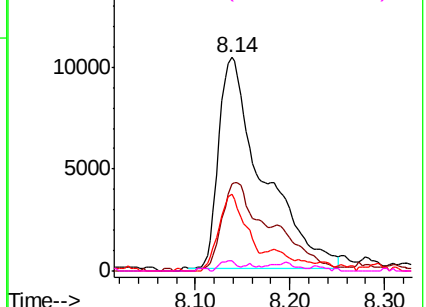
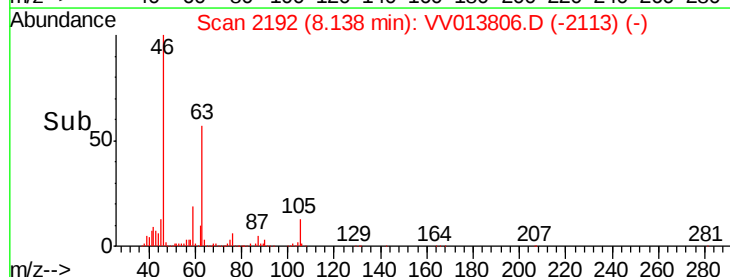
58 32.0 43.2 64.8#

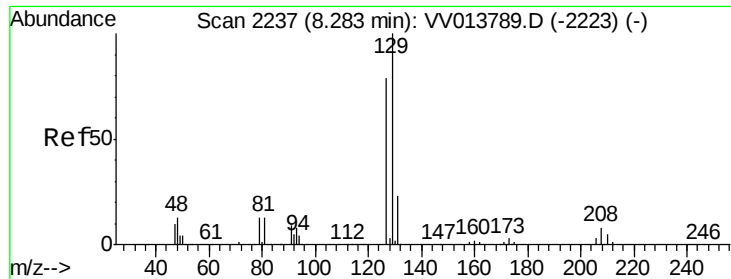
57 22.8 15.4 23.2

100 1.9 10.4 15.6#



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0





#49

Dibromochloromethane

Concen: 12.081 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

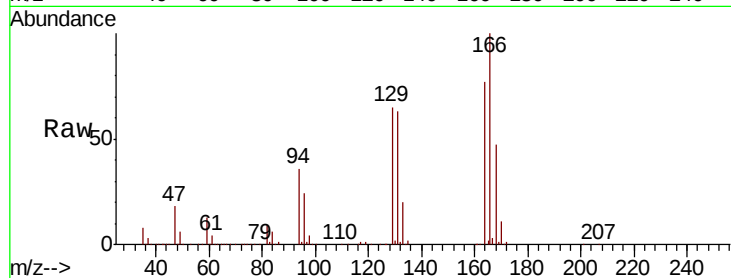
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:129 Resp: 230288

Ion Ratio Lower Upper

129 100

127 0.1 55.7 103.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.02

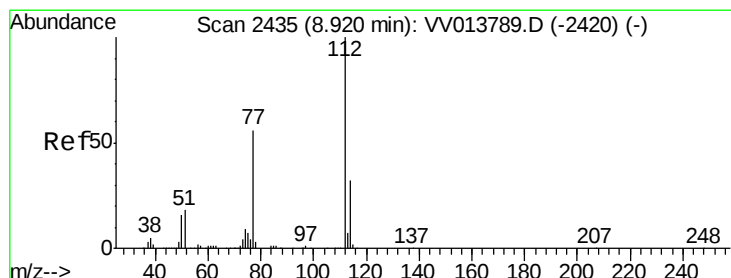
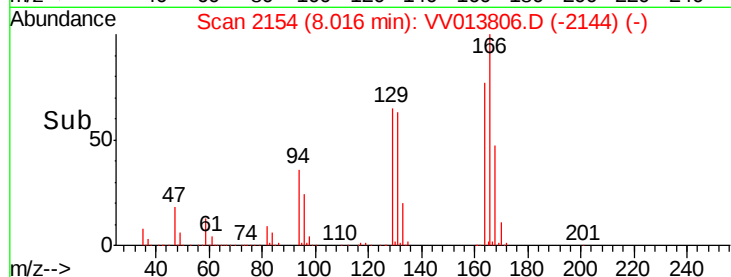
150000

100000

50000

0

Time--> 7.95 8.00 8.05 8.10



#51

Chlorobenzene

Concen: 0.080 ug/L

RT: 8.92 min Scan# 2436

Delta R.T. 0.00 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

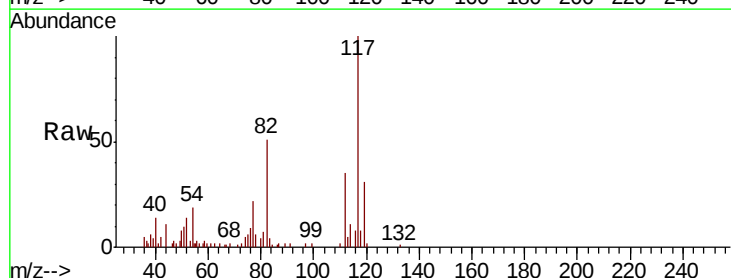
Tgt Ion:112 Resp: 4826

Ion Ratio Lower Upper

112 100

114 32.8 21.8 40.6

77 62.3 44.2 66.4



Abundance Ion 112.10 (111.80 to 112.80): V

Ion 114.05 (113.75 to 114.75): V

Ion 77.10 (76.80 to 77.80): VV0

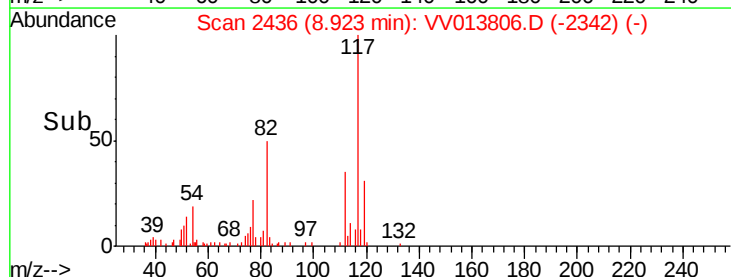
3000

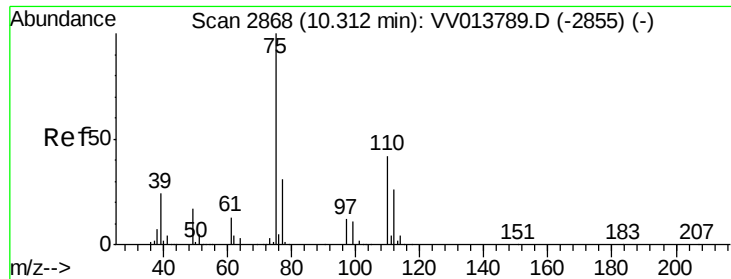
2000

1000

0

Time--> 8.85 8.90 8.95





#59

1,2,3-Trichloropropane

Concen: 0.230 ug/L

RT: 10.32 min Scan# 2869

Delta R.T. 0.00 min

Lab File: VV013806.D

Acq: 26 Nov 2019 23:15

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 75 Resp: 2949

Ion Ratio Lower Upper

75 100

77 32.9 25.7 38.5

