

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102219\
 Data File : VV013277.D
 Acq On : 22 Oct 2019 14:25
 Operator : SY/MD
 Sample : K5462-05
 Misc : 25.00ML/MSVOA V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 23 01:26:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR102119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 01:23:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	421686	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	459677	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	234417	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	199537	6.42	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	128.40%
7) Chloroethane-d5	1.58	69	164670	6.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	128.40%
11) 1,1-Dichloroethene-d2	2.13	63	248116	4.49	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.80%
20) 2-Butanone-d5	3.95	46	412317	69.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	138.12%#
24) Chloroform-d	4.40	84	411723	5.63	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	112.60%
26) 1,2-Dichloroethane-d4	5.08	65	195288	5.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.20%
32) Benzene-d6	5.10	84	828523	5.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	111.40%
36) 1,2-Dichloropropane-d6	6.11	67	251433	5.62	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	112.40%
41) Toluene-d8	7.36	98	681455	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
43) trans-1,3-Dichloropropene-	7.66	79	79321	4.68	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.60%
46) 2-Hexanone-d5	8.14	63	254352	42.12	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	84.24%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	175469	5.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	108.60%
64) 1,2-Dichlorobenzene-d4	11.67	152	270882	5.94	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	118.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	141619	3.480	ug/L	98
8) Chloroethane	1.32	64	46363	1.912	ug/L #	54
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	3014	0.087	ug/L #	19
12) 1,1-Dichloroethene	2.14	96	6554	0.198	ug/L #	1
16) Methylene chloride	2.53	84	15044	0.302	ug/L	92
17) Methyl tert-butyl Ether	2.81	73	227319	2.961	ug/L	96
18) trans-1,2-Dichloroethene	2.79	96	77498	1.983	ug/L	93
19) 1,1-Dichloroethane	3.23	63	33730	0.531	ug/L	98
22) cis-1,2-Dichloroethene	3.96	96	2390722	57.149	ug/L #	88
27) 1,2-Dichloroethane	5.09	62	4433	0.100	ug/L	97
33) Benzene	5.15	78	23159	0.132	ug/L	100
34) Trichloroethene	5.96	95	516749	10.972	ug/L	98
35) Methylcyclohexane	6.12	83	61013	0.842	ug/L #	17
37) 1,2-Dichloropropane	6.11	63	26561	0.623	ug/L #	88
47) Tetrachloroethene	8.02	164	13834	0.323	ug/L	91
48) 2-Hexanone	8.14	43	40100	2.577	ug/L #	77
49) Dibromochloromethane	8.01	129	12241	0.327	ug/L #	11

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Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Oct 23 01:23:09 2019
Response via : Initial Calibration

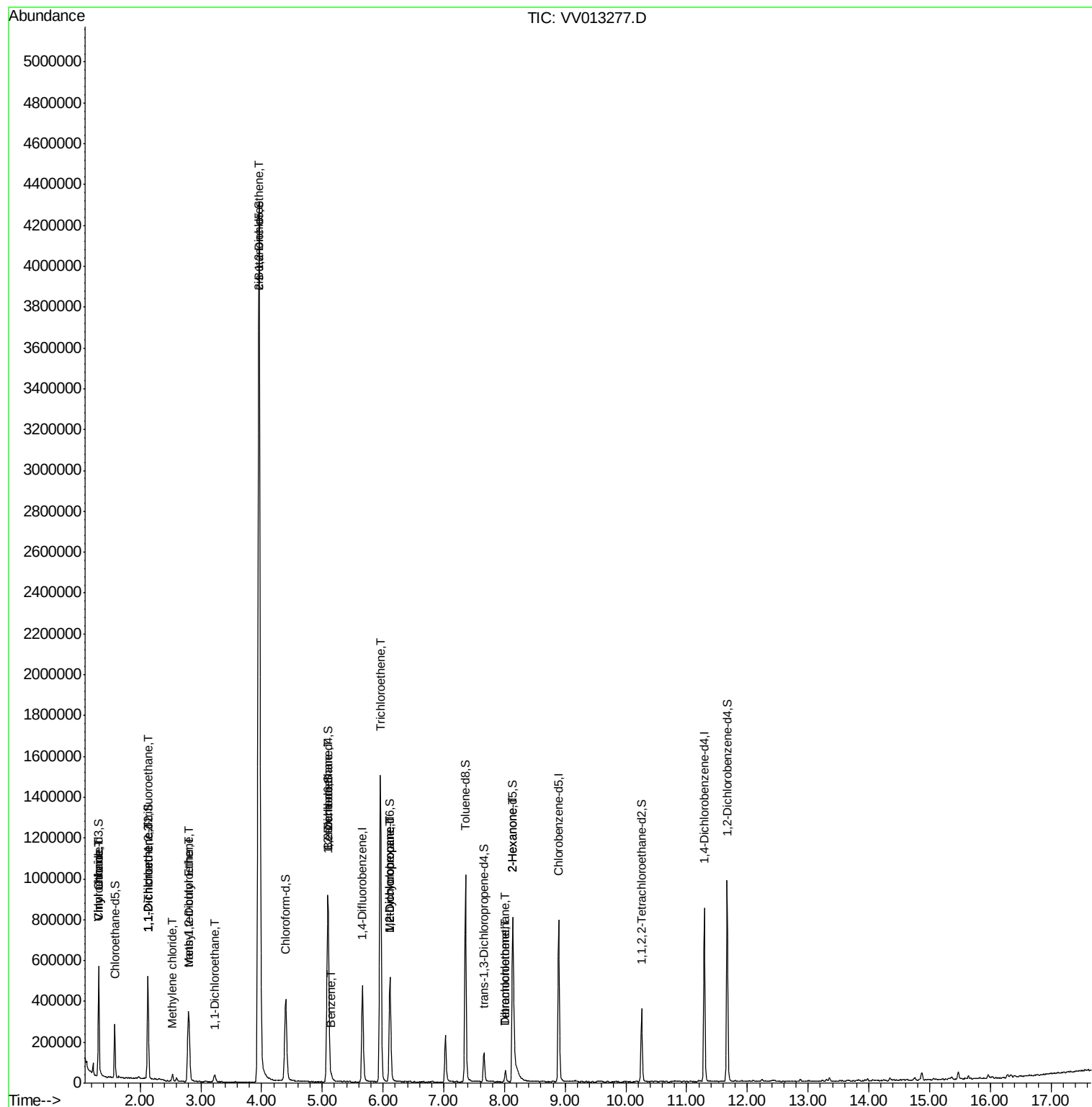
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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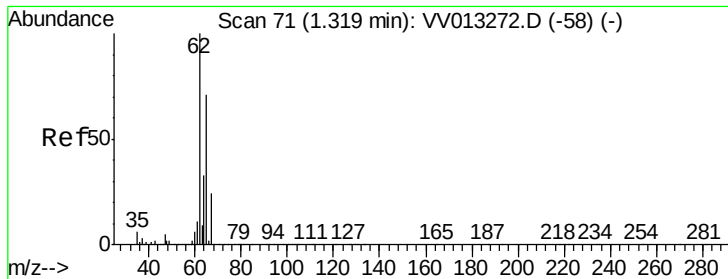
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV102219\
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QLast Update : Wed Oct 23 01:23:09 2019
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.480 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

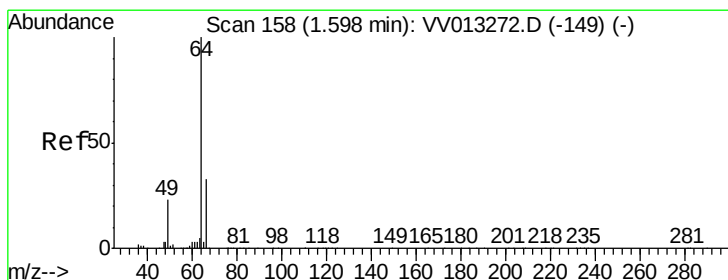
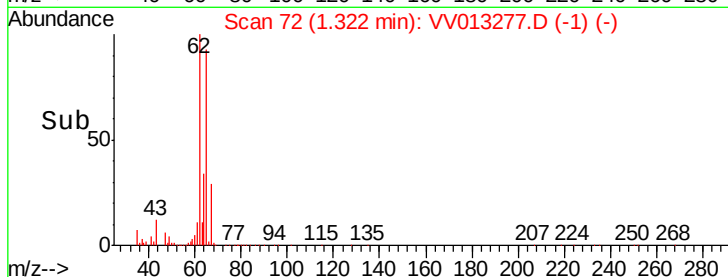
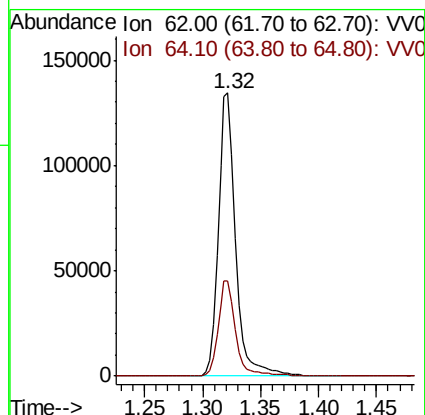
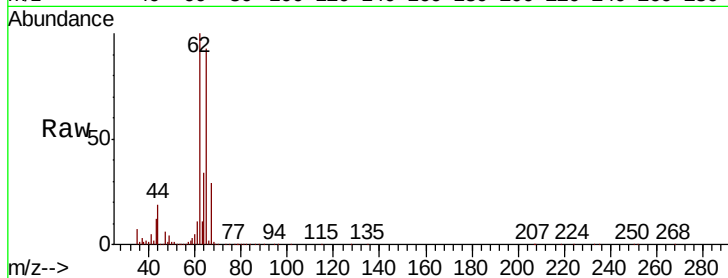
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 62 Resp: 141619

Ion Ratio Lower Upper

62 100

64 33.9 22.9 42.5



#8

Chloroethane

Concen: 1.912 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.28 min

Lab File: VV013277.D

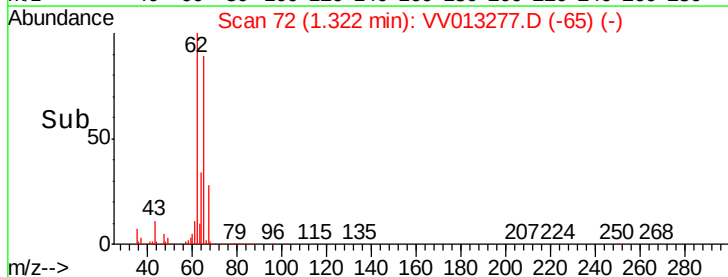
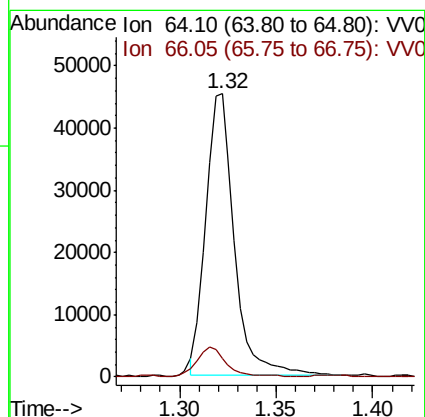
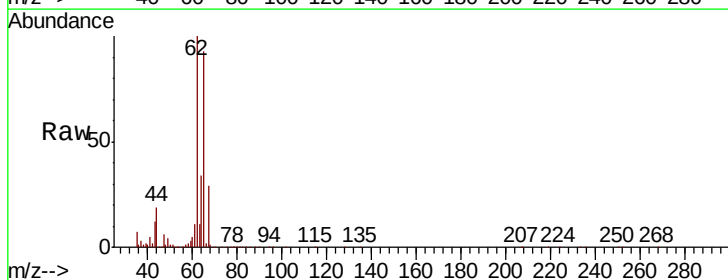
Acq: 22 Oct 2019 14:25

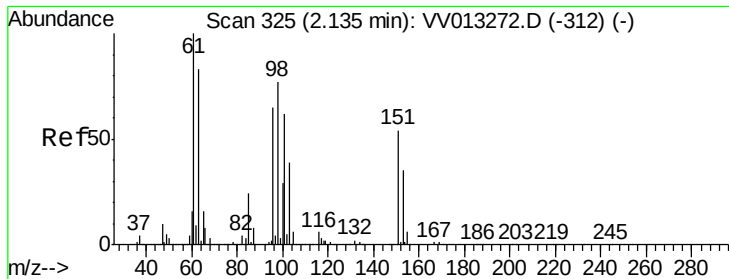
Tgt Ion: 64 Resp: 46363

Ion Ratio Lower Upper

64 100

66 6.6 22.7 42.3#





#10

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

Concen: 0.087 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Instrument :

MSVOA_V

ClientSampleId :

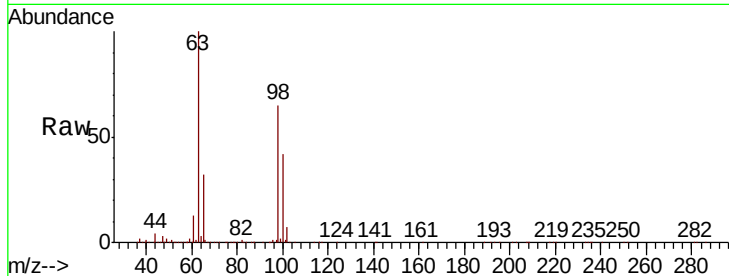
Tot Ion:101 Resp: 3014

Ion Ratio Lower Upper

101 100

85 3.8 31.8 47.8#

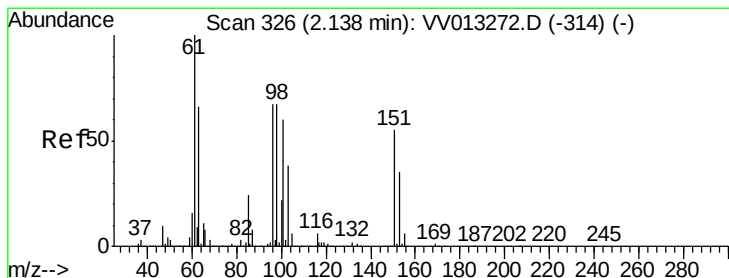
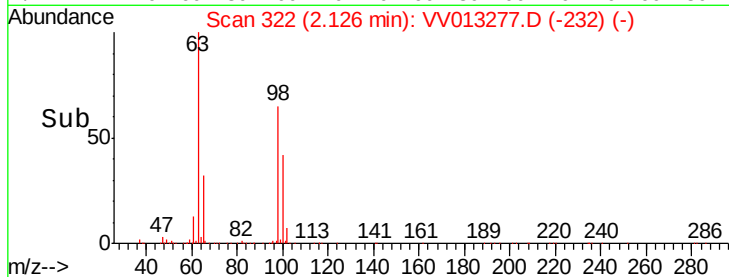
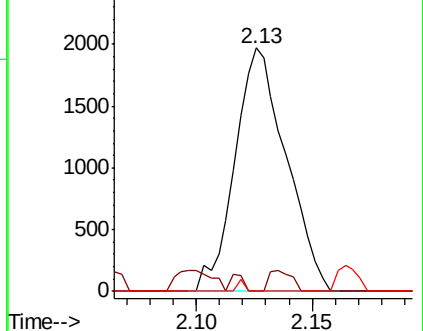
151 4.3 72.9 109.3#



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: 0.198 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

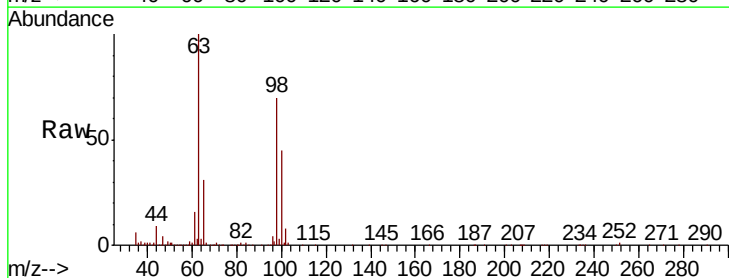
Tgt Ion: 96 Resp: 6554

Ion Ratio Lower Upper

96 100

61 359.6 104.0 193.1#

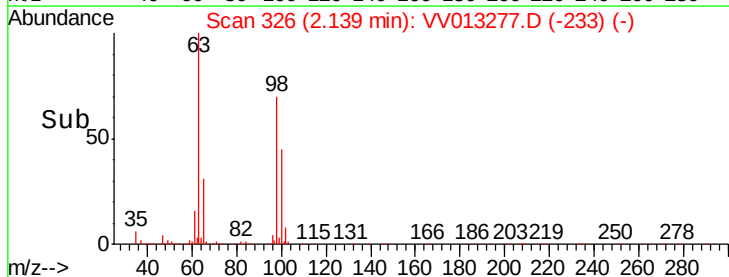
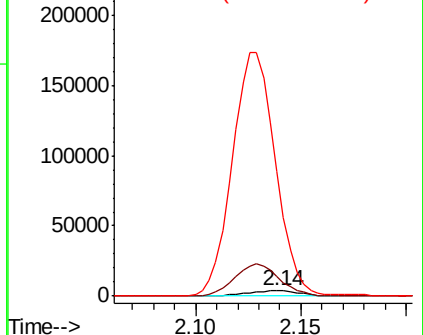
63 2283.2 67.1 124.5#

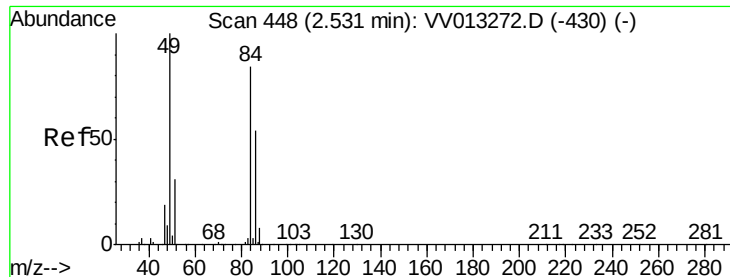


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

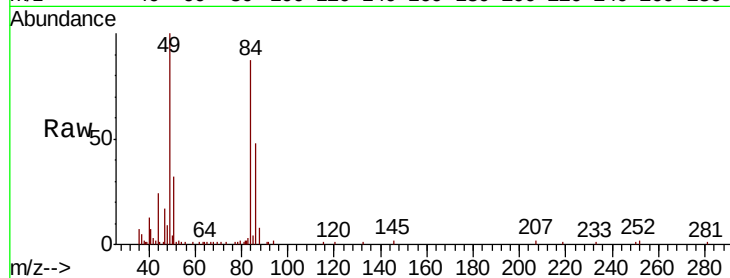




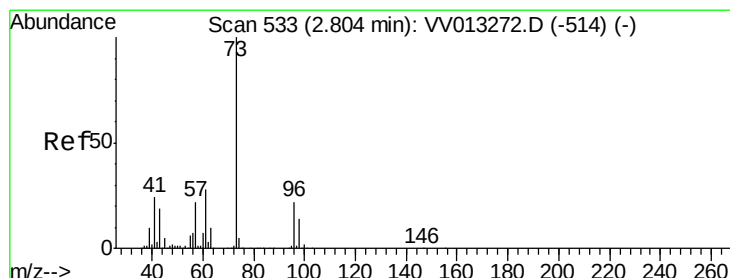
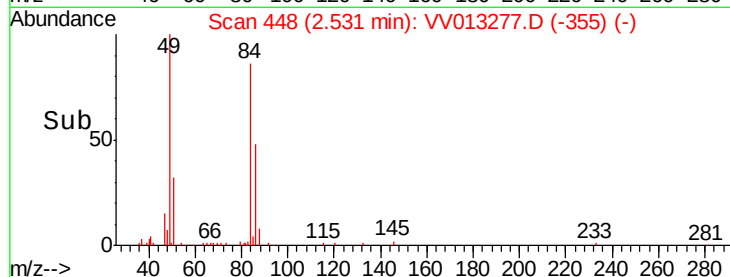
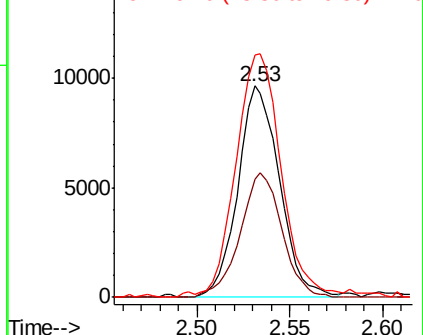
#16
Methylene chloride
Concen: 0.302 ug/L
RT: 2.53 min Scan# 448
Delta R.T. 0.00 min
Lab File: VV013277.D
Acq: 22 Oct 2019 14:25

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 84 Resp: 15044
Ion Ratio Lower Upper
84 100
86 55.6 46.2 85.8
49 114.7 76.4 141.8

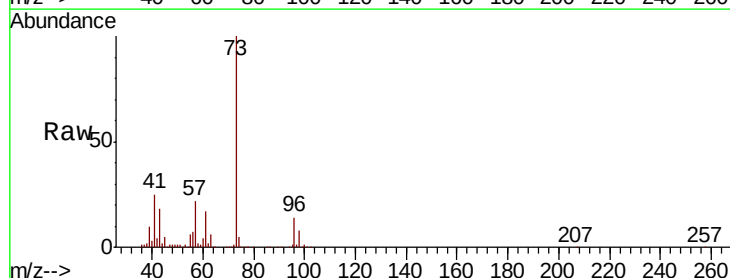


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

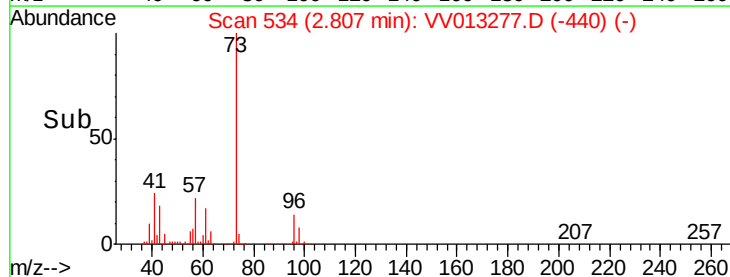
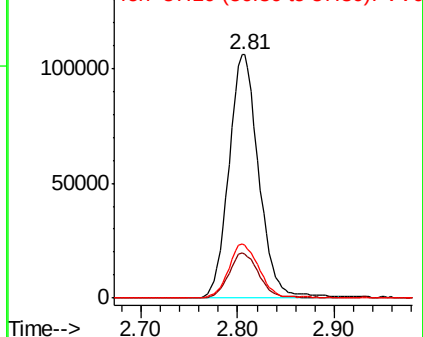


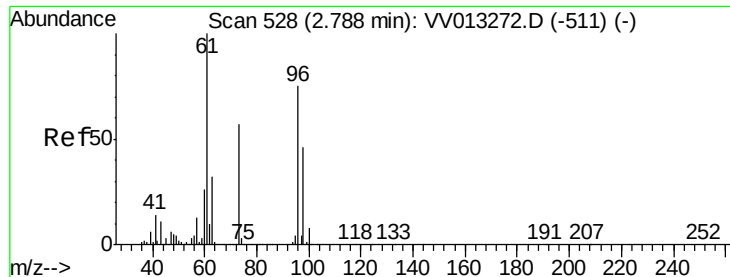
#17
Methyl tert-butyl Ether
Concen: 2.961 ug/L
RT: 2.81 min Scan# 534
Delta R.T. 0.00 min
Lab File: VV013277.D
Acq: 22 Oct 2019 14:25

Tgt Ion: 73 Resp: 227319
Ion Ratio Lower Upper
73 100
43 18.3 13.1 19.7
57 22.6 16.4 24.6



Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0





#18

trans-1,2-Dichloroethene

Concen: 1.983 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Instrument :
MSVOA_V
ClientSampleId :

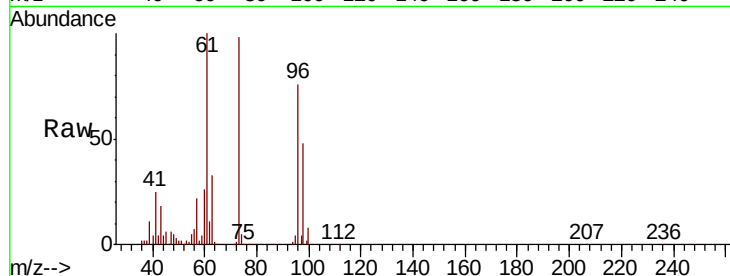
Tot Ion: 96 Resp: 77498

Ion Ratio Lower Upper

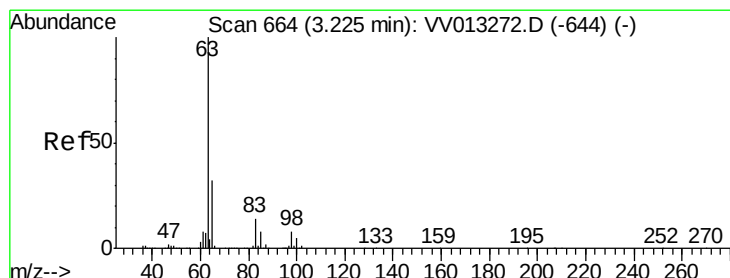
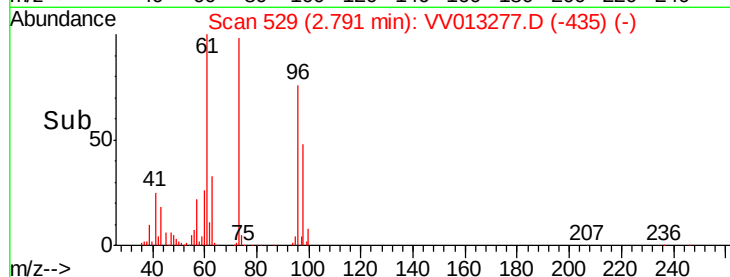
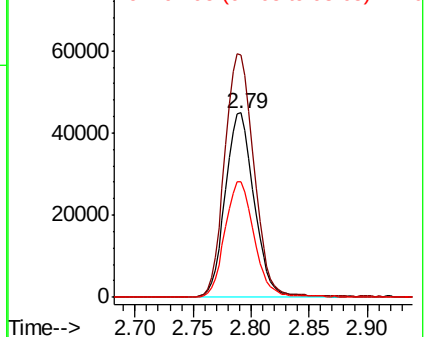
96 100

61 131.3 84.4 156.8

98 62.9 44.4 82.4



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0



#19

1,1-Dichloroethane

Concen: 0.531 ug/L

RT: 3.23 min Scan# 665

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

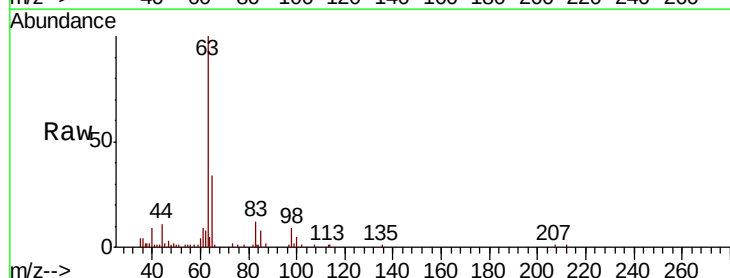
Tgt Ion: 63 Resp: 33730

Ion Ratio Lower Upper

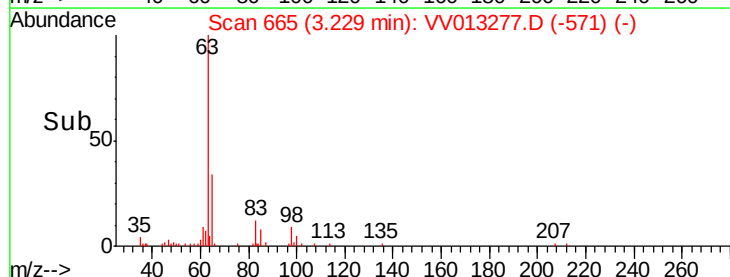
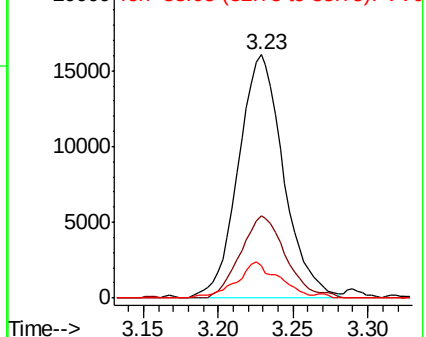
63 100

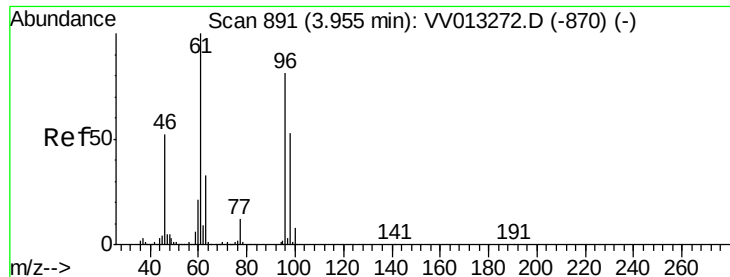
65 33.6 23.0 42.8

83 13.4 10.2 19.0



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



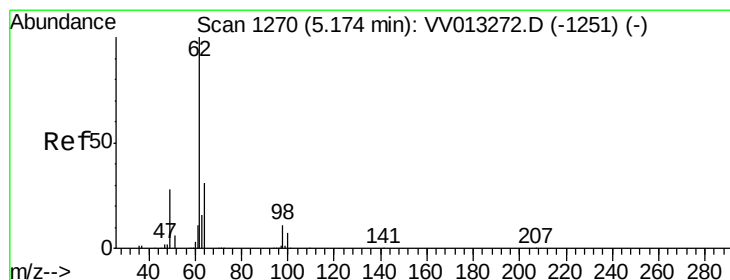
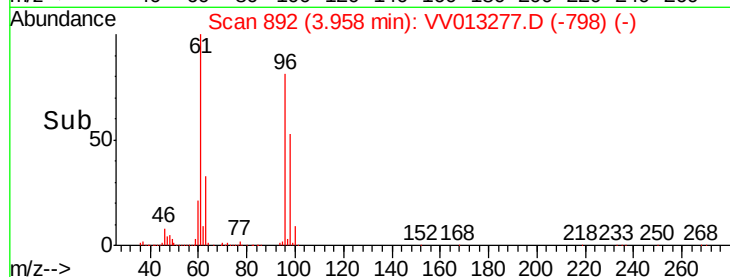
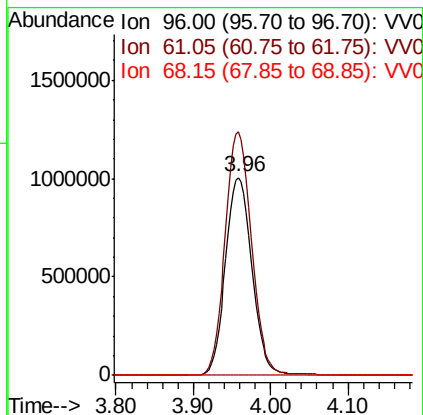
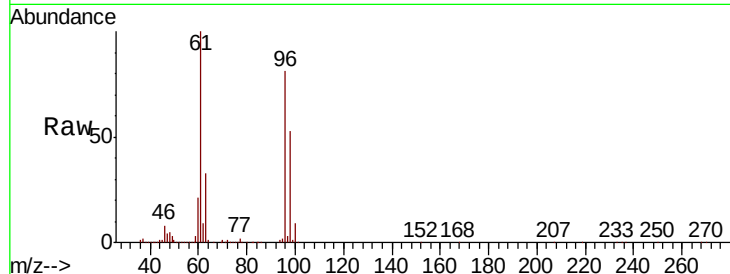


#22

cis-1,2-Dichloroethene
 Concen: 57.149 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VV013277.D
 Acq: 22 Oct 2019 14:25

Instrument :
 MSVOA_V
 ClientSampleId :

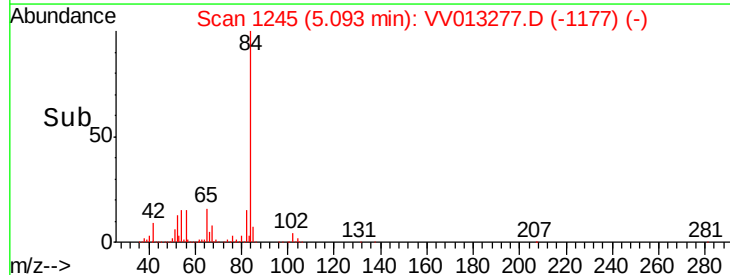
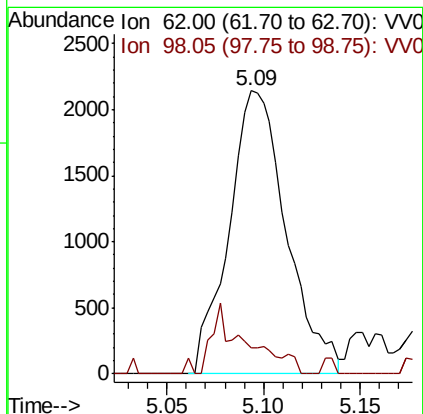
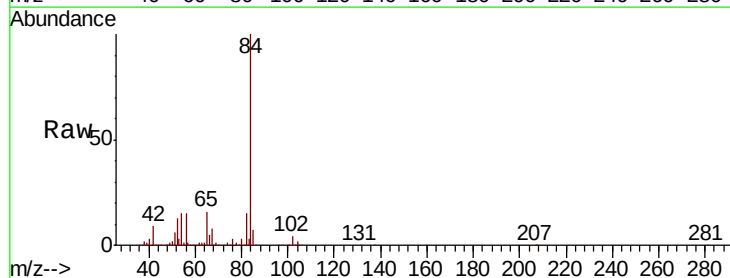
Tot Ion: 96 Resp: 2390722
 Ion Ratio Lower Upper
 96 100
 61 123.1 77.3 143.7
 68 0.0 0.1 0.1#

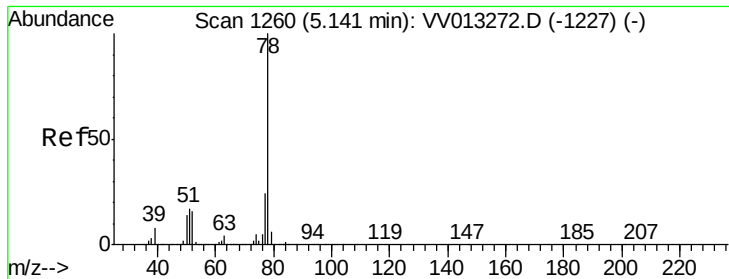


#27

1,2-Dichloroethane
 Concen: 0.100 ug/L
 RT: 5.09 min Scan# 1245
 Delta R.T. -0.08 min
 Lab File: VV013277.D
 Acq: 22 Oct 2019 14:25

Tgt Ion: 62 Resp: 4433
 Ion Ratio Lower Upper
 62 100
 98 9.2 8.3 12.5





#33

Benzene

Concen: 0.132 ug/L

RT: 5.15 min Scan# 1262

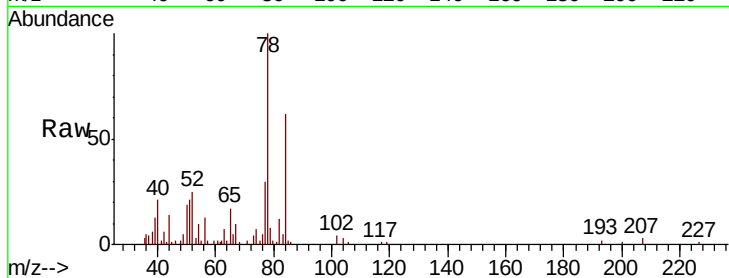
Delta R.T. 0.01 min

Lab File: VV013277.D

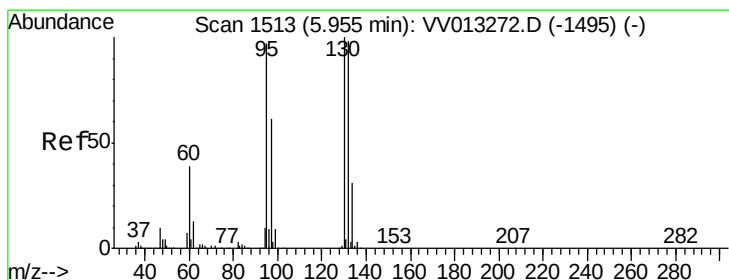
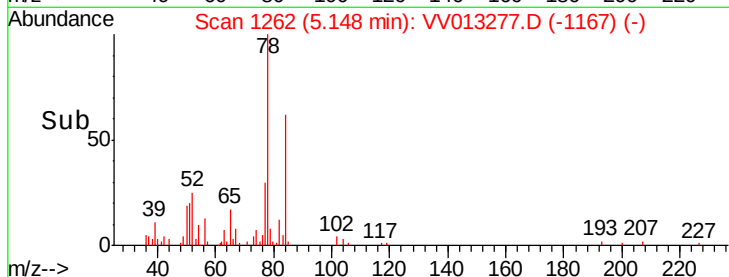
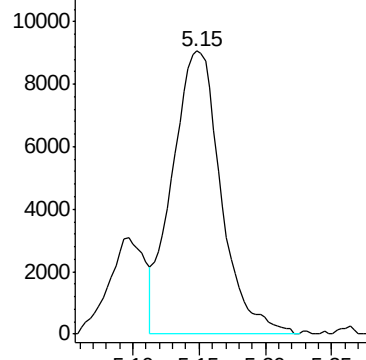
Acq: 22 Oct 2019 14:25

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 23159



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 10.972 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Tgt Ion: 95 Resp: 516749

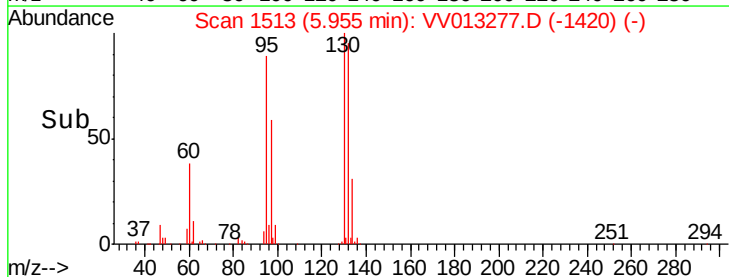
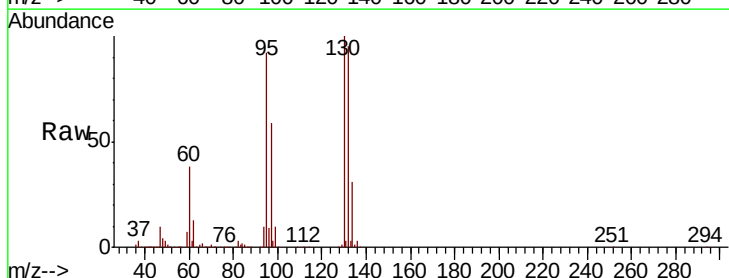
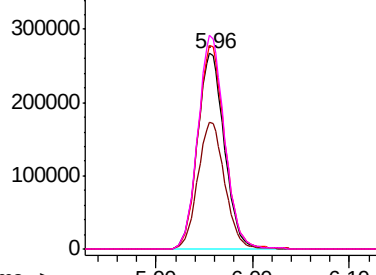
Ion	Ratio	Lower	Upper
95	100		
97	64.5	45.2	84.0
132	103.8	70.6	131.2
130	109.3	75.5	140.3

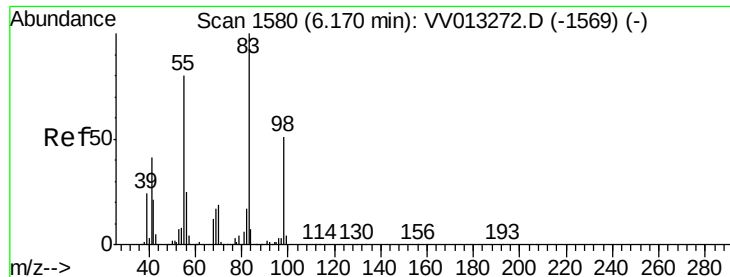
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

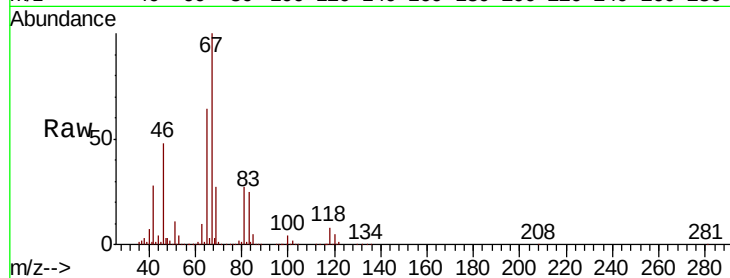




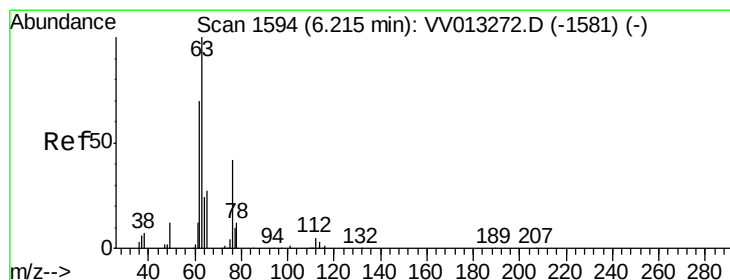
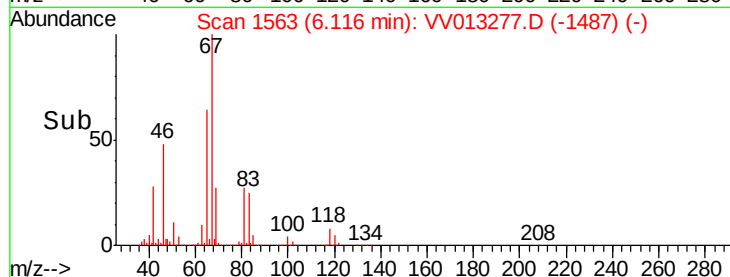
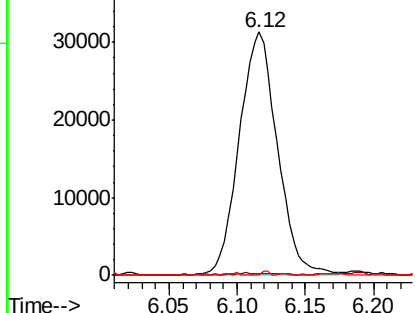
#35
Methylvlcyclohexane
Concen: 0.842 ug/L
RT: 6.12 min Scan# 1563
Delta R.T. -0.05 min
Lab File: VV013277.D
Acq: 22 Oct 2019 14:25

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
83	100		
55	0.1	62.4	93.6#
98	0.0	39.2	58.8#

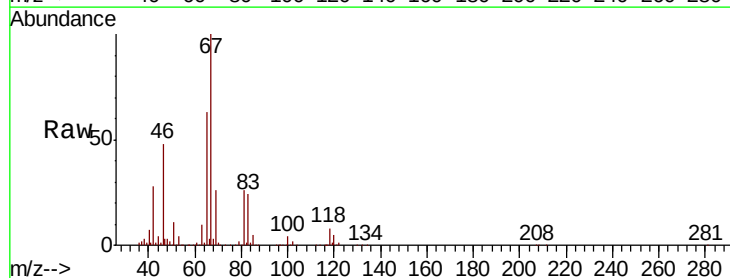


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

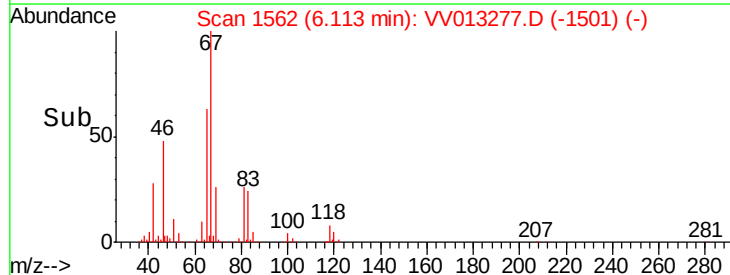
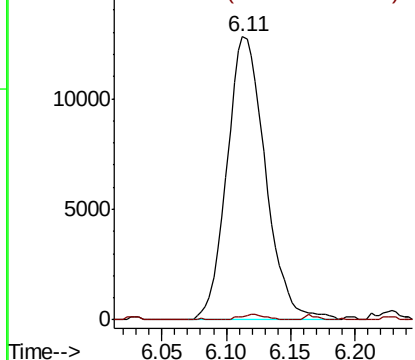


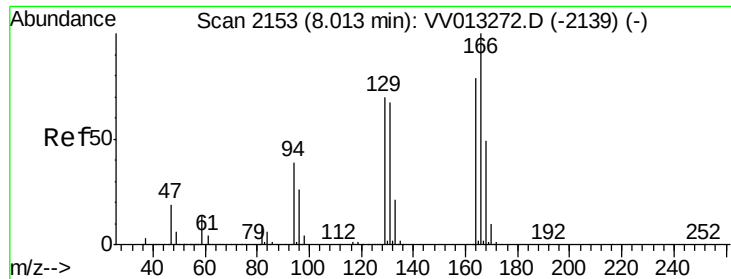
#37
1,2-Dichloropropane
Concen: 0.623 ug/L
RT: 6.11 min Scan# 1562
Delta R.T. -0.10 min
Lab File: VV013277.D
Acq: 22 Oct 2019 14:25

Tgt Ion	Ratio	Lower	Upper
63	100		
112	1.2	4.1	6.1#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#47

Tetrachloroethene

Concen: 0.323 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. 0.00 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:164 Resp: 13834

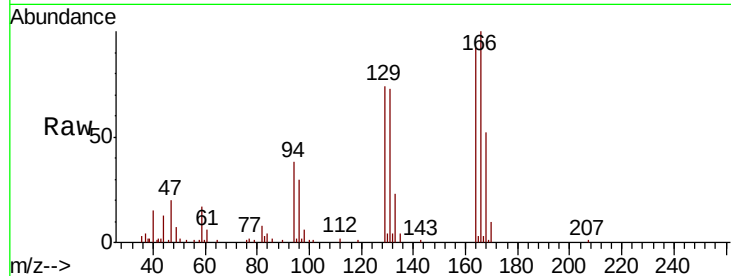
Ion Ratio Lower Upper

164 100

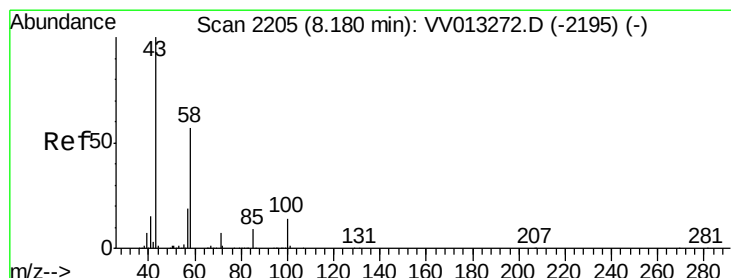
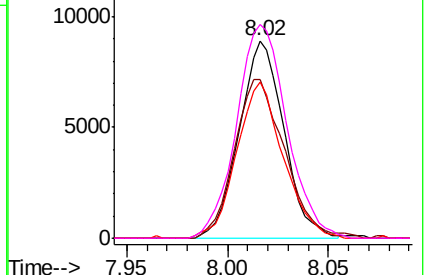
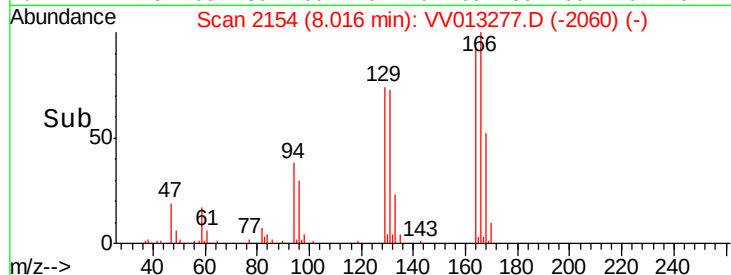
129 80.3 61.0 113.2

131 79.5 57.5 106.9

166 108.3 87.8 163.0



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: 2.577 ug/L

RT: 8.14 min Scan# 2191

Delta R.T. -0.04 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

Tgt Ion: 43 Resp: 40100

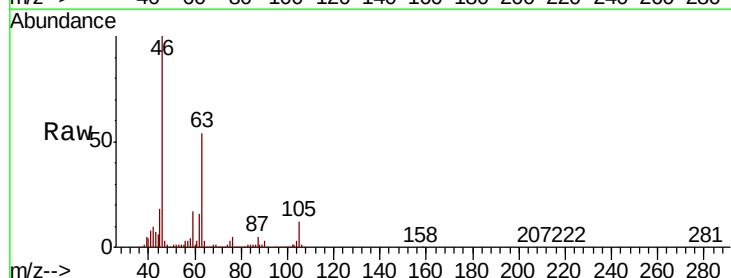
Ion Ratio Lower Upper

43 100

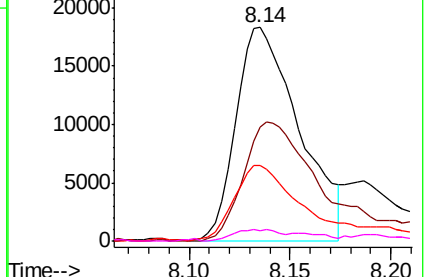
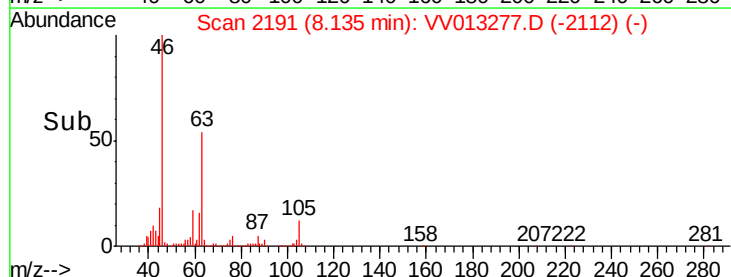
58 68.4 45.1 67.7#

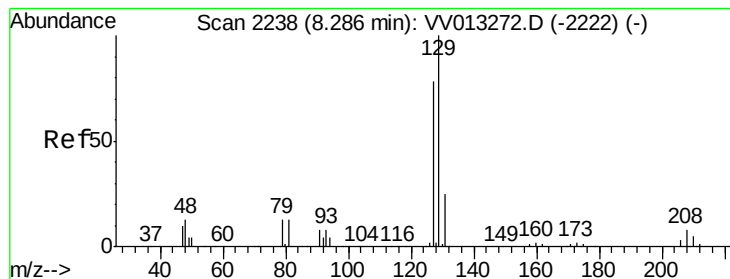
57 38.4 15.5 23.3#

100 3.8 10.2 15.2#



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: 0.327 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.27 min

Lab File: VV013277.D

Acq: 22 Oct 2019 14:25

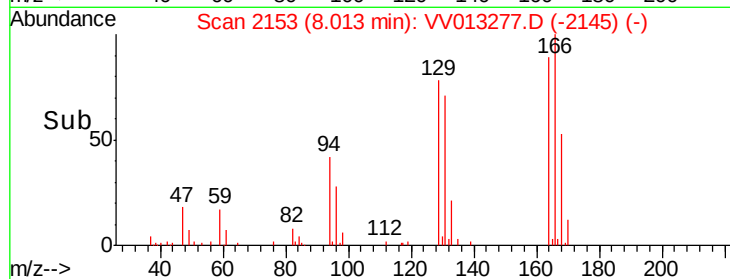
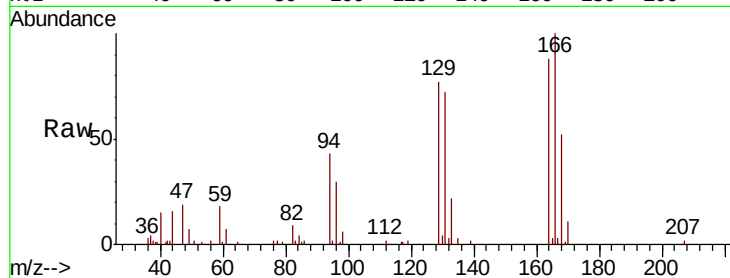
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:129 Resp: 12241

Ion Ratio Lower Upper

129 100

127 0.0 54.1 100.5#



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V

